### WARRANTY

## Transbay Joint Powers Authority

(Owner Name)

#### 201 Mission, Suite 2100, San Francisco, CA

(Owner Address)

We hereby warrant and guarantee that the \_\_\_\_\_

(Description of Work)

which we have installed at <u>Transbay Transit Center</u> has been done in strict accordance with the plans and specifications, and that the work installed will fulfill the requirements of those specifications.

We agree to repair or replace, or cause to be repaired or replaced, any or all of the work which may prove to be defective in workmanship or materials, together with any adjacent work which required repair or replacement because of our defective work within a period of \_\_\_\_\_ year(s) from the filing of the Notice of Completion on all improvements, or acceptance by the Owner of the building, whichever is later.

If we fail to commence to comply with the above paragraph within ten (10) days after receipt of written notice, or fail to pursue such compliance with diligence, we jointly, and severally, do hereby authorize the Owner or the General Contractor to proceed to have the defects repaired and made good at our sole expense, and we will honor and pay the costs and charges for it together with interest at the maximum rate permitted by law upon demand. If we fail to fulfill the preceding obligations, and if Owner or General Contractor bring an action to enforce this Warranty, we agree to pay Owner or General Contractor reasonable attorney's fees incurred in connection therewith.

SUBCONTRACTOR:	CONTRACTOR:	
	_ WEBCOR/OBAYAS	5HI JOINT VENTURE
BY:	BY:	
DATE:	DATE:	
LICENSE NO.	LICENSE NO.	928731A, B, C-8
LOCAL REPRESENTATIVE TO BE CONTAC	CTED FOR SERVICE:	
NAME:		
ADDRESS:		
TELEPHONE:		
FORM 1033 <b>EXH</b>	HBIT "B"	Rev. 9/2010



# Exhibit C

### LIEN RELEASES

Form Number	Form Title
1034	Conditional Waiver and Release Upon Progress Payment
1035	Unconditional Waiver and Release Upon Progress Payment
1036	Conditional Waiver and Release Upon Final Payment
1037	Unconditional Waiver and Release Upon Final Payment

## CONDITIONAL WAIVER AND RELEASE UPON PROGRESS PAYMENT

Upon receipt by the undersigned of	a check from	Webcor/Obayashi Jo	oint Vent	ure
		(Maker	of Check)	
in the sum of \$	payable to	)		and
		(Your Custome	er)	
when the check has been properly	endorsed and	d has been paid by th	ie bank i	upon which it is
drawn, this document shall becom	e effective to	release any mechan	ic's lien,	stop notice, or
bond right the undersigned has on t	he job of <u>Tr</u> a	ansbay Joint Powers A	Authority	located at
		(Owner)		-
Transbay Transit Center 425 M	lission Street	San Francisco, Califo	ornia	to the following
extent. This				
(Job Description)				

release covers a progress payment for labor, services, equipment or material furnished to **Webcor/Obayashi Joint Venture** through\_\_\_\_\_

#### (Date)

only and does not cover any retentions retained before or after the release date; extras furnished before the release date for which payment has not been received; extras or items furnished after the release date. Rights based upon work performed or items furnished under a written change order which has been fully executed by the parties prior to the release date are covered by this release unless specifically reserved by the claimant in this release. This release of any mechanic's lien, stop notice, or bond right shall not otherwise affect the contract rights, including rights between parties to the contract based upon a rescission, abandonment, or breach of the contract, or the right of the undersigned to recover compensation for furnished labor, services, equipment, or material covered by this release if that furnished labor, services, equipment, or material was not compensated by the progress payment. The undersigned warrants that he (she/it) has reviewed the job files and has queried his (hers/its) on job personnel, suppliers, subcontractors, and any other potential lienor and, as of the date of this lien release, warrants that he (she/it) is unaware of any changes in the work, extra or any claim that is not covered by this release. Before any recipient of this document relies on it, the party should verify evidence of payment to the undersigned.

Dated:

(Company Name)

Transbay Transit Center

By: \_\_\_

(Title)

NOTE: This document has important legal consequences; legal consultation with an attorney is encouraged with respect to its use or modification.

# UNCONDITIONAL WAIVER AND RELEASE UPON PROGRESS PAYMENT

The undersigned has been paid and has received a progress payment in the sum of for labor, services, equipment or material furnished to Webcor /Obayashi Joint Venture on the job of Transbay Joint Powers Authority located at (Your Customer) (Owner) Transbay Transit Center 425 Mission Street San Francisco, CA and does hereby release any mechanic's lien, (Job Description) stop notice, or bond right that the undersigned has on the above referenced job to the following extent. This release covers a progress payment for labor, services, equipment, or materials furnished to Webcor /Obayashi Joint Venture (Your Customer) through \_\_\_\_ only and does not cover any retention retained before or (Date) after the release date; extras furnished before the release date for which payment has not been received; extras or items furnished after the release date. Rights based upon work performed or items furnished under a written change order which has been fully executed by the parties prior to the release date are covered by this release unless specifically reserved by the claimant in this release. This release of any mechanic's lien, stop notice, or bond right shall not otherwise affect the contract rights, including rights between parties to the contract based upon a rescission, abandonment, or breach of the contract, or the right of the undersigned to recover compensation for furnished labor, services, equipment, or material covered by this release if that furnished labor, services, equipment, or material was not compensated by the progress payment. The undersigned warrants that they have reviewed the job files and have consulted with their on job personnel and, as of the date of this lien release, are unaware of any change in work or any claim that is not covered by this release.

Dated:

(Company Name)

By:

Transbay Transit Center

(Title)

### "NOTICE: THIS DOCUMENT WAIVES RIGHTS UNCONDITIONALLY AND STATES THAT YOU HAVE BEEN PAID FOR GIVING UP THOSE RIGHTS. THIS DOCUMENT IS ENFORCEABLE AGAINST YOU IF YOU SIGN IT, EVEN IF YOU HAVE NOT BEEN PAID. IF YOU HAVE NOT BEEN PAID, USE A CONDITIONAL RELEASE FORM."

## CONDITIONAL WAIVER AND RELEASE UPON FINAL PAYMENT

Upon receipt by the undersigne	d of a check from Webcor/Obayashi	Joint Venture
	(Ma	ker of Check)
in the sum of \$	payable to	
(Amount of Check)	(Payee o	r Payees of Check)
and when the check has been is drawn, this document shall b bond right the undersigned has	properly endorsed and has been paid become effective to release any mec on the job of Transbay Joint Powers	I by the bank upon which it hanic's lien, stop notice, or Authority
5	(0	wner)
located at Transbay Transit Cer	nter 425 Mission Street San Francis	co, California
	(Job Description)	

This release covers the final payment to the undersigned for all labor, services, equipment, or material furnished on the job, except for disputed claims for additional work in the amount of **Zero (\$0.00).** Before any recipient of this document relies on it, the party should verify evidence of payment to the undersigned. The undersigned warrants that they have reviewed the job files and have consulted with their on job personnel and, as of the date of this lien release, are unaware of any change in work or any claim that is not covered by this release.

Dated:	(Company Name)
Transbay Transit Center	Ву:

(Title)

NOTE: This document has important legal consequences; legal consultation with an attorney is encouraged with respect to its use or modification.

# UNCONDITIONAL WAIVER AND RELEASE UPON FINAL PAYMENT

The undersigned has been paid in full for all labor, services, equipment or material furnished to

Webcor/Obayashi Joint Venture on the job of Transbay Joint Powers Authority

(Your Customer) (Owner) located at <u>Transbay Transit Center 425 Mission Street San Francisco, California</u> (Job Description)

and does hereby waive and release any right to a mechanic's lien, stop notice, or any right against a labor and material bond on the job, except for disputed claims for extra work in the amount of \$ Zero(0.00). The undersigned warrants that they have reviewed the job files and have consulted with their on job personnel and, as of the date of this lien release, are unaware of any change in work or any claim that is not covered by this release.

Dated: \_\_\_\_\_

(Company Name)

Transbay Transit Center

Ву:\_\_\_\_\_

(Title)

"NOTICE: THIS DOCUMENT WAIVES RIGHTS UNCONDITIONALLY AND STATES THAT YOU HAVE BEEN PAID FOR GIVING UP THOSE RIGHTS. THIS DOCUMENT IS ENFORCEABLE AGAINST YOU IF YOU SIGN IT, EVEN IF YOU HAVE NOT BEEN PAID. IF YOU HAVE NOT BEEN PAID, USE A CONDITIONAL RELEASE FORM."



### Exhibit D

### SAMPLE CERTIFICATE OF INSURANCE AND ADDITIONAL INSURED ENDORSEMENT

#### Form Number

### Form Title

ACCORD 25Certificate of Liability InsuranceCG 201 10 11 85Additional Insured - Owners, Lessees or Contractors (Form B) - Commercial General LiabilityWC 04 03 06Waiver of Our Right to Recover from Others Endorsement

ACORD	CERTI	FIC	ATE OF LIA	BILITY IN	ISURA	NCE	DATE	(MM/DD/YYYY)
THIS CERTIFICATE IS IS CERTIFICATE DOES NOT BELOW. THIS CERTIFIC REPRESENTATIVE OR PR	SUED AS A MA T AFFIRMATIVE ATE OF INSUR RODUCER, AND	TTER LY O ANCE THE C	OF INFORMATION ONL' R NEGATIVELY AMEND, DOES NOT CONSTITU CERTIFICATE HOLDER.	Y AND CONFERS I EXTEND OR ALT TE A CONTRACT	NO RIGHTS ER THE CO BETWEEN 1	UPON THE CERTIFICA VERAGE AFFORDED THE ISSUING INSURE	TE HOI BY THE R(S), AU	LDER. THIS E POLICIES JTHORIZED
the terms and conditions certificate holder in lieu of	icate holder is a of the policy, ce f such endorsen	ın AD rtain   ient(s	DITIONAL INSURED, the policies may require an e ).	policy(les) must be ndorsement. A sta	e endorsed. tement on th	If SUBROGATION IS It is certificate does not	vAIVED confer r	, subject to ights to the
PRODUCER				CONTACT NAME:				
ANY AGENT OR BROKER STREET ADDRESS CITY, STATE ZIP		_	· · · · · · ·	PHONE (A/C, No, Ext): E-MAIL ADDRESS:		AVC, No	<u>u</u>	
PHONE/FAX		S	SAMPLE	ins	NYZ IN	ISURANCE COMP	ANY	NAIC#
INSURED				INSURER A :	(RATE		RBY	
ABC SUBCONTRACTOR	· .			INSURER C :	- AIVI BI	:51)	-	
STREET ADDRESS	1			INSURER D :				
1 OFFT, STATE, 20				INSURER E :	·····			
COVERACES	CEDTIE		E NUMPED.	INSURER F :				
THIS IS TO CERTIFY THAT 1	THE POLICIES OF	INSU	RANCE LISTED BELOW HA	VE BEEN ISSUED TO	THE INSURE	D NAMED ABOVE FOR	THE POL	ICY PERIOD
INDICATED. NOTWITHSTAN CERTIFICATE MAY BE ISSU EXCLUSIONS AND CONDITIO	DING ANY REQU ED OR MAY PER INS OF SUCH POL	IREME TAIN, ICIES,	NT, TERM OR CONDITION THE INSURANCE AFFORD LIMITS SHOWN MAY HAVE	OF ANY CONTRACT ED BY THE POLICIE BEEN REDUCED BY	OR OTHER I S DESCRIBED PAID CLAIMS	DOCUMENT WITH RESPI	TO ALL 1	WHICH THIS THE TERMS,
INSR TYPE OF INSURAN	CE ADD		POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIM	TS	
GENERAL LIABILITY						EACH OCCURRENCE	\$ 1,0	000,000
X COMMERCIAL GENERAL L	IABILITY X	x	XYZ123456			PREMISES (Ea occurrence)	\$ T	3D
						MED EXP (Any one person)	\$ 1	000.000
						GENERAL & ADV INJURY	\$ 2,	000.000
GEN'L AGGREGATE LIMIT APPL	JES PER:					PRODUCTS - COMP/OP AGG	\$ 2,	000,000
POLICY X PRO-	LOC		·				\$	
						COMBINED SINGLE LIMIT (Ea accident)	\$ 1,0	000,000
	HEOULED		XYZ654321			BODILY INJURY (Per person)	\$	
AUTOS AU	DN-OWNED					PROPERTY DAMAGE	) \$	
HIRED AUTOS AU	ros					(Per accident)	ŝ	<u></u>
UMBRELLA LIAB X	OCCUR	<u> </u>	NNR102456			EACH OCCURRENCE	\$	<del></del>
A EXCESS LIAB	CLAIMS-MADE	i i	X12123456			AGGREGATE	\$	
DED RETENTION \$							\$	
AND EMPLOYERS' LIABILITY	Y/N		XX7123456			X WC STATU- OTH	•	
A OFFICER/MEMBER EXCLUDED?		X	A12123430			E.L. EACH ACCIDENT	\$ 1,0	00,000
If yes, describe under	below					EL DISEASE - EA EMPLOYE	e 1,(	000,000
POLLUTION LIABILTY			· XYZ123456		· · · · · · · · · · · · · · · · · · ·		1.4	
A	1999		XYZ123456					
	.   Y		L	-				
DESCRIPTION OF OPERATIONS / LOCA	ATIONS / VEHICLES	Attach .	ACORD 101, Additional Remarks 8	ichedule, if more space is	required)			
RE: Transbay Transit Co	enter Building							
			·					
CERTIFICATE HOLDER				CANCELLATION				
Webcor/Obayashi Joint Ve 951 Mariners Island Blvd., San Mateo, CA 94404-251	enture 7th Floor 4			SHOULD ANY OF T THE EXPIRATION ACCORDANCE WIT	HE ABOVE DI DATE THE TH THE POLIC	ESCRIBED POLICIES BE ( IREOF, NOTICE WILL Y PROVISIONS.	ANCELL BE DEL	ED BEFORE IVERED IN
			ł	AUTHORIZED REPRESE	TATIVE			
				Mary	Jane Doe			
	The ACORD name	and lo	ogo are registered marks of AC	ORD © 198	38-2010 ACC	ORD CORPORATION.	All righ	its reserved.

#### WAIVER OF OUR RIGHT TO RECOVER FROM OTHERS ENDORSEMENT

This endorsement changes the policy to which it is attached effective on the inception date of the policy unless a different date is indicated below.

(The following "attaching clause" needs to be completed only when this endorsement is issued subsequent to preparation of the policy.)

This endorsement forms a part of Policy No. XYZ 1234567

issued to: ABC SUBCONTRACTOR

By: XYZ INSURANCE COMPANY

Premium (if any) TBD

We have a right to recover our payments from anyone liable for an injury covered by this policy. We will not enforce our right against the person or organization named in the Schedule. (This agreement applies only to the extent that you perform work under a written contract that requires you to obtain this agreement from us).

You must maintain payroli records accurately sagregating the remuneration of your employees while engaged in the work described in the Schedule.

The additional premium for this endorsement shall be 2-5% of the California workers compensation premium otherwise due on accin remunication.

agnajule

#### Person or Organization

Job Description TRANSBAY TRANSITY CENTER

BUILDING.

WEBCOR/OBAYASHI JOINT VENTURE, Its Officers, Directors and Employees AND TRANSBAY JOINT POWERS AUTHORITY, its Board Members and Commissions, All Authorized Agents and Representatives, and Members, Directors, Officers, Trustees, Agents and Employees of Any of Them.

# WAIVER OF SUBRAGATION FOR WORKERS COMPENSATION INSURANCE TO BE INCLUDED.

WC 04 03 06 (Ed. 4-84) John Doe

**Authorized Representative** 

#### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

### ADDITIONAL INSURED – OWNERS, LESSEES OR CONTRACTORS (FORM B)

This endorsement modifies insurance provide under the following:

#### COMMERCIAL GENERAL LIABILITY COVERAGE PART

	SCHEDULE
Name of Person or Organization:	WEBCOR/OBAYASHI JOINT VENTURE, Its Officers, Directors and Employees
AND	TRANSBAY JOINT POWERS AUTHORITY, its Board Members and Commissions, All Authorized Agents and Representatives, and Members, Directors, Officers, Trustees, Agents and Employees of Any of Them.
RE:	TRANSBAY TRANSIT CENTER BUILDING.
WHO IS AN INSURED (Section II) Schedule, but only with espect to lia If required by your agreement with su anyone also provides similar insurance be excess over, or secondary to that i "The insurance afforded and any other insurance	is amended to include as an insured the person or organization shown in the bility arising out of "your work" for that Insured by or for you. Ich insured, this insurance shall be primary insurance for such Insured. If be for such Insured, then that insurance will be primary, and this insurance will insurance. I by this policy for the additional insured(s) is primary insurance is maintained by or available to the additional Insured(s) is non-
contributory."	
WAIVETZ OF SI	BROGATION - WORKGTES COMP
CG 20 10 11 85	

Exhibit "D"



Transbay Transit Center Webcor/Obayashi Joint Venture 175 Beale Street San Francisco, CA 94105 T 415-978-5700

To Whom It May Concern:

In our efforts to complete LEED Documentation for the Transbay Transit Center Project we will need the following information provided on your official company letter head:

- 1. Company Name & Contact Information
- 2. Contract Value
- 3. Scope of work included in Contract with specific Divisions and Sections listed
- 4. List of all materials included in the contract with actual material costs and the total weight value of each material.
- 5. Recycled content (post-consumer and pre-consumer) percentages for each material from CSI MasterFormat 2004 Edition divisions 3-10, 31 and 32. Please provide cut sheets of each material with the recycled content values posted.
- 6. Please note the location of material extraction and material manufacturing. Specifically, we are looking for those materials that were both extracted and manufactured within 500 miles of the jobsite. If you are sure that your materials do not comply as Regional Material, please note that the material does not comply with this credit.
- 7. If you provided any of the following materials in your scope of work, please provide the specific material information in form of MSDS sheet that includes VOC content: adhesives, sealants, coatings, paints, carpet systems, etc.

Please see the sample letter and reporting spreadsheet to complete your LEED Submissions. If you have any questions or concerns, please contact Webcor/Obayashi Joint Venture Document Control. If there is any information that you are not able to track down please let us know. We are here to support your efforts.

Sincerely, WEBCOR/OBAYASHI JOINT VENTURE

[Insert your company logo] [Type the sender address] Phone: [Type the sender phone number]

 Document Control Transbay Transit Center Webcor/Obayashi Joint Venture 175 Beale Street San Francisco, CA 94105 <u>docctrl@webcor-obayashi.com</u>

#### To: Webcor/Obayashi Joint Venture,

Please find the following information regarding the scope of work that [subcontractor name] provided to the Transbay Transit Center project in San Francisco, CA.

1. Subcontractor's LEED Point of contact information:

a.	Name:
	Title:
	Email:
	Phone #:

- The total contract value of our work is \$\_\_\_\_\_\_
- 3. Scope of work (Division/Section): \_
- 4. List of Materials included in contract value (weight): [use LEED Material Spreadsheet]
- 5. Post Consumer Recycled content for each material (%):[use LEED Material Spreadsheet]
- 6. Location of Material Extraction & Manufacturing: [use LEED Material Spreadsheet]
- VOC Content for each material: [use LEED Material Spreadsheet] (only required for adhesives, sealants, coatings, paints, carpet systems)
  - a. Confirmation of "Urea-Formaldehyde Free" Products: [use LEED Material Spreadsheet]
- 8. Chain of Custody Number for all FSC Wood Products: [use LEED Material Spreadsheet]

Thank you,

[Insert your company logo] [Sender Name] [Sender Title] [Sender Company Name] [Date signed] [Date]

# TTC - Material Cost Data Sheet



Subcontractor Name: Total Contract Value:										OBAYASHI
Official Product Name	Material Manufacturer	Division# and Section #	Actual Cost of Material	total weight of material purchased	Post Consumer Recycled Content %	Pre Consumer Recycled Content %	Location of material extraction	Location of material manufacturing	VOC Content (if applicable)	FSC Chain of Custody # (if applicable)
										ļ



Trade Contractor Name:

(a)	(b)	(c)	(d)	(e) (f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
Building Element		Activity		Quantity Unit	Material		Labor										
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					\$/unit	%	Labor	Labor	Labor	Etc.	Labor Type	Labor Type	Labor	Etc.	Total Crew Cost Per Hour	Labor Hours / Unit =	%
							Type #1	Type #2	Type #3		#1	#2	Type #3		/ No. of Men on Crew	1/productivity	
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UniFormat Classification	Item Description/ Element Name on Bid Form	xx.xx.xx	Work Activity 1												#DIV/0!		
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Trade Contractor Name:																				
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(d) Building Element	(5)	Activity	(u)	Fauinment	(u)	(v)	(₩)	(*)	(ÿ)	(2)	Subtotals	(00)	(00)	(uu)	(ee)	(11)	(88)	(111)	(1)	Total
UniFormat Classification		MasterFormat Code	Name	Equipment F	Rate, \$/HR		Equipment Con	sumption Rate		Waste	Material	OH&P	Total Material	Labor	OH&P	Total Labor	Equip	OH&P	Total Equip	
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(Example: A2010.10)		(Example: 31.53.13)	activities should coincide with activies included with a subcontractor's detailed project schedule		work activity		Units need to	match column "f" u	units.	working										
(Example: A2010.10)			subcontractor s detailed project schedule.							conditions										
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Total Costs \$ -

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# Exhibit G

# SUBCONTRACTOR PAYMENT REQUISITION

### 1. Monthly Billing Checklist

### 2. Forms

	Form Number	Form Title
i.	1030	Subcontractor Progress Billing Invoice
ii.	1030A	Schedule of Values
iii.	1031	Subcontractor Final Retention Invoice
iv.	1031A	Schedule of Value Retention Release
v.	00 08 21/AT3-E (modified)	Progress Payment Report (With Additional SBE Columns)

#	FORM	FORM	FREQ	REF
		00 08 20/AT1 00 08		
1	<b>CityBuild Workforce Projection Form 1 and 2</b> - Non-compliance results in removal from site	20/AT2	Initial	Div 00 08 20 1.7
			Initial /	
2	Schedule of Values	1030A	Monthly	Exhibit G
			Daily /	
3	Daily Report (must be CURRENT at the time of pay app submission and payment)	4.000	Monthly	Bid Manual IV. A. 4. c.
4	Subcontract Progress Billing Invoice	1030	Monthly	Exhibit G
5	Conditional Waiver and Release Upon Progress Payment	1034	Monthly	Exhibit C
6	Unconditional Waiver and Release Upon Progress Payment	1035	Monthly	Exhibit C
7	Conditional Waiver and Release Upon Progress Payment - subtiers and vendors	1034	Final	Exhibit C
8	Unconditional Waiver and Release Upon Progress Payment - subtiers and vendors	1035	Final	
9	IJPA AKKA JODS REPORT FORM	V 1.2	Monthly	DIV 00 08 13, 1.2.E & APF
10	Nanpower Projection		Monthly	Bid Manual IV. A. 38. a.
11	TIDA Projection / Cashilow Projection		Monthly	
12	Dreiget Specific Insurance (Must be CURRENT)		Monthly	DIV 00 08 21, 1.5B.
13	Cortified Payroll, weakly electronic submission (CURPENT at the time of nav ann submission		Wookly /	
11	and navment) including subtiers		Monthly	Long Form Subcontract 4.2
14			wontiny	
		a) Conv of trust fund		
		romittance report w/		
		conv of cancelled check		
		h) DAS Form CAC 2 w/		Rid Manual II E. 6. c. & Long Form Subcontract 4.2. 8
15	Apprentice Training Fund Contributions proof of payment	conv of cancelled check	Monthly	
12	Apprentice framing rund contributions proof of payment		wondiny	DIV 00 00 22 1.2 D.
	by the end of the project without exceeding daily may if over provide written explanation			
16	for each day of violation		Monthly	Bid Manual
17	Apprenticeshin Monthly Trade Subcontractor Affidavit	Exhibit O/Form ####	Monthly	Bid Manual Exhibit O
10	Request for Dispatch of an Apprentice (DAS 142 Form) - if any	DAS 142	Monthly	
10	Apprentice documentation - documentation on employed apprentices that are current and	DA3 142	wontiny	
10	apprentice documentation - documentation on employed apprentices that are current and		Monthly	Div 00.08.12 / ABA Section 22 (d) (1)
20	FIC Form from eligible subcontractor employees		Vearly	Div 00 08 13/APA, Section 23 (d) (1)
20	LEEP - NC Version 3.0 (monthly summaries and deliverables)		Monthly	Bid Manual IV $\wedge$ 40 a and Div 01 81 13 1 5 D 1-4
21	Reconciled Excel submittal form with Trade Package Progress Schedule ( 2 times a month) -		WOIlting	
	NOTE: In Div 01 our undated schedule must be submitted in our Progress Payment Request			
22	ο 01 13 10 1 5 F		Monthly	Bid Manual IV A 35 f and C 1 I
22	Weekly Safety "Tool Boy" Meeting Minutes (must be CURRENT at the time of nav ann			
23	submission and navment)		Monthly	Bid Manual IV B
25	<b>HA Reports</b> (Job Hazard Analysis Reports) (must be CLIBRENT at the time of nav ann		Worlding	
24	submission and payment)	Н4	Monthly	Bid Manual IV B
<u> </u>		00 08 15 / APA - 1 and	includy	
25	Monthly Disposal and Recycling Summary Report (Waste Management Requirements)	00 08 15 / APA - 12	Monthly	Div 00 08 15 1.5 C 1 and 2
	(Contractor) CONSTRUCTION AND DEMO DEBRIS RECOVERY MONTHLY SUMMARY		,	
26	REPORT monthly with Pay App		Monthly	Div 01 74 00 1.8 A. B.
	DBE Trucking Verification, due at end of month, need amount paid by DBE Trucking			
	companies to all firms, including owner-operators, for leasing of trucks - DUE TO TJPA by	Monthly DBE Trucking		
27	Contractor on the 15th of the month to TJPA	Verification Form	Monthly	Div 00 08 21/AT2 5 b. i. and ii.
28	Up to date As-builts drawings on site at all times		Monthly	Bid Manual IV. K. 1. a.
	Updated Bidders / Proposers Information Request Form - if needing an updates, must be		Monthly /	
29	submitted		Quarterly?	Div 00 08 21 1.3E
30	Stored Materials Documentation		Monthly	Div 00 07 00, 1.4.I
	Daily Sign In and Out Sheet (must be CURRENT at the time of pay app submission and		Daily /	
31	payment)	TJPA Daily Sign-in Sheet	Monthly	Div 00 07 00 57, Article 11, 11.04
	Daily Quality Control Reports (must be CURRENT at time of pay app submission and			
32	payment)		Daily	
	Trade Package Progress Schedule update in electronic format (must be CURRENT at the			
33	time of pay app submission and payment)		Monthly	
34	LEED Progress Reporting with each pay app		Monthly	
35	Subcontractor Final Retention Invoice	1031	Final	Exhibit G
36	Schedule of Values Retention Release	1031A	Final	Exhibit G
37	Conditional Waiver and Release Upon Final Payment	1036	Final	Exhibit C
38	Unconditional Waiver and Release Upon Final Payment	1037	Final	
39	Conditional Waiver and Release Upon Final Payment - subtiers and vendors	1030	Final	
40	Unconditional Waiver and Release Upon Final Payment - subtiers and vendors	1037	Final	Exhibit C
	Final weekly electronic submission of certified payroll (must be CURRENT at the time of pay		Line!	Long Form Subscription 1.2
41	app submission and payment) including subtiers		Final	Long Form Subcontract 4.2
	Une compact disk containing electronic files in .dwg format and pdf format and three (3)			
	sets of accurate and complete As-built drawings - Complete As-builts are due upon		Line!	
42	completion prior to requesting final payment		Final	BIG IVIANUALIV. K. 1. E and f.
	Operations and initiation in a respective final set in the submitted 12 months prior to start of		Final	
43	commissioning and prior to requesting final payment		Final	BIG MIANUALIV. K. 1. f.
	Evidence of final payment to Unions and Union Trust Funds, State Apprenticeship Programs		Final	Long Forms Sub-sentra et 4.2
44	(subs who are not signatory to unions) Appropriate the state the second		гіпаі	Long Form Subcontract 4.2
	Apprentices in prace subcontractor Attidavit - that the required number of apprentices			
	were employed and/or records snowing that the apprenticeship committee(s) either denied			
	or railed to respond to a request for the dispatch of apprentices in accordance with Labor		Einel	Did Manual Estilitic
45	Lode Section 1777.5	EXNIDIT Q/Form ####	Final	BIG IVIANUAI, EXNIDIT Q

Monthly Billing Checklist

#	FORM	FORM	FREQ	REF
46	Warranties must be submitted prior to requesting final payment		Final	Div 01 17 00 1.4 A 3. b.
47	Spare Parts and material extra stock		Final	Div 01 17 00 1.4 A 3. d.
48	Final (Contractor) CONSTRUCTION AND DEMO DEBRIS RECOVERY SUMMARY REPORT		Final	Div 01 74 00 1.8 D.
49	Final LEED Final Reports and Documentation		Final	Bid Manual IV. A. 40. a. and Div 01 81 13 1.5 D.1-4
		00 08 15 / APA - 1 and		
50	Final Disposal and Recycling Summary Report (Waste Management Requirements)	00 08 15 / APA - 12	Final	Div 00 08 15 1.5 C 1 and 2



### **Subcontractor Progress Billing Invoice**

Send invoice to: EMAIL: ap@webcor.com FAX: (510) 748-3474 MAIL: 1751 Harbor Bay Parkway, Suite 200 Alameda, CA 94502

Billing	gInformation	Sul	bcontractor Contact Information
Owner Pay App NO.		Subcontractor Name:	
Vendor Number		Remittance Address:	
Webcor/Obayashi Joint Venture Subcontract Number:		City, State, Zip:	
Webcor/Obayashi Joint Venture Job Number:	30100.XX	Contact Name:	
Job Name:	Transbay Transit Center	Contact Email Address:	
Pay App Number:		Contact Phone Number:	
Invoice Number:		Contact Fax Number	
Invoice Date:		Title:	
Sub Job Number:		_	
Period From:		Signature	
Period To:		Date Signed	
The following invoice	e covers work completed thro	ough the last day of	
Original Contract Amo	ount:		\$0.00
Executed Change Orde	ers (CO) though CO No:		\$0.00
Total Revised Contra	ct Amount:		\$0.00
Gross Amount Comp	lete to Date %		\$0.00
Less Gross Amount F	Previously Invoiced:		\$0.00
Current Gross Billing	Amount:		\$0.00
Less Current Retention	on:		\$0.00
Current Net Amount:			\$0.00

Webcor/Obayashi Joint Venture Approvals below this line

Schedule of Values

Sub: Sub No.:

Transbay Transit Center

Sub Application Number: Invoice Date

Invoice Date: Webcor/Obayashi Joint Venture Job No: 30100.XX

In tabulations below, amounts are stated to nearest dollar

Period From: Period To:

	A		B	ပ	۵	ш	ш	U	Н		ſ
						Work Co	mpleted	Total		Balance	Retention
ltem	CSI	Spec	Description of Work	Scheduled	Previous	This App	lication	To Date	%	To Finish	To Date
No.	Division	Section		Value	Application	In Place	Stored	(C+D+E)	(F/B)	(B-F)	
						_					
-											
2											
e											
4											
5											
9											
7											
8											
			Sub Total								
PCO #	CSI Division	SCO No.	Approved Change Orders								
			Total Change Orders								
			Grand Total								



### **Subcontractor Final Retention Invoice**

Send invoice to: EMAIL: ap@webcor.com FAX: (510) 748-3474 MAIL: 1751 Harbor Bay Parkway, Suite 200 Alameda, CA 94502

Billing	Information	Si	Ibcontraci	tor Contact Information	on
Vendor Number (W/O JV Use Only)		Subcontractor Name:			
Invoice Number:	RETENTION:	Remittance Address:			
Invoice Date:		City, State, Zip:			
Webcor/Obayashi JV Subcontract Number:		Contact Name:			
Webcor/Obayashi JV Job Number:	30100.XX	Contact Email Address: Contact Phone			
Job Name:		Number:			
Transbay Transit	Center	Contact Fax Number Print Signer's Name and Title:			
		Signature & Date			Date Signed
The following invoice cov	ers work completed through	n the last date of		(Month),	(Year):
Contract Amount:			\$		-
Executed Change Orders	Through Change Order N	D:	\$		-
Total Revised Contract A	mount:		\$		-
Gross Amount Complete	to Date % (9	%)	\$		-
Less: Total Net Amount	Previously Billed:		\$		-
Total Amount Due:			\$		-
*****	******	***** ** ******************************	* *********	****	*****

For Webcor /Obayashi JV Use only

**Schedule of Values Retention Release** 

Sub: Sub No.:

Transbay Transit Center

Sub Application Number: Invoice Date

Invoice Date: Webcor/Obayashi Joint Venture Job No: 30100.XX

In tabulations below, amounts are stated to nearest dollar

Period From: Period To:

<b>ر</b>	Retention	To Date															
	Balance	To Finish	(B-F)														
I		%	(F/B)														
ט	Total	To Date	(C+D+E)														
ш	mpleted	lication	Stored														
Ш	Work Co	This App	In Place														
D		Previous	Application														
C		Scheduled	Value														
В		Description of Work										Sub Total	Approved Change Orders			Total Change Orders	Grand Total
		Spec	Section										SCO No.				
A		CSI	Division										CSI Division				
		ltem	No.	-	2	ო	4	2	9	7	8		PCO #				

#### TRANSBAY JOINT POWERS AUTHORITY PROGRESS PAYMENT REPORT (WITH ADDITIONAL SBE COLUMNS)

#### To be completed by Trade Subcontractor and submitted to Project Manager with every monthly invoice.

#### PART 1: PROJECT SUMMARY

Contract Award Date:	TJPA Contract No.:		Contract Title:	
Trade Subcontractor:	Contact Persor	n:	Contact Phone No.:	Contact Email:
Trade Subcontractor Address		Signature:		
Invoice Date:	Invoice No.:		For the Period:	

1. Award amount of Trade Subcontract	\$ -
2. Amount of Change Orders, Amendments and Modifications to Date	\$ -
3. Total Contract Amount to Date including Change Orders, Amendments and Modifications (Line 1 + Line 2)	\$ -
4. Total Amount for this Invoice (Less Retention)	\$ -
5. Total Previously Invoiced Awaiting Payment (Less Retention)	\$ -
6. Total Amount Paid to Date (not including Lines 4 and 5)	\$ -
7. Total Invoice Amount Requested to Date (Line 4 + Line 5 + Line 6)	\$ -
8. Total Retention to Date <sup>1</sup>	\$ -
9. Percent Complete ([Line 7 + Line 8] / Line 3)	0%

#### TRANSBAY JOINT POWERS AUTHORITY PROGRESS PAYMENT REPORT (WITH ADDITIONAL SBE COLUMNS)

#### PART 2: CONSULTANT/SUBCONSULTANT PAYMENT DETAIL SUMMARY

Α	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	Р	Q	R
Name of Firm (Including Prime, Subs, Vendors, and Joint Ventures) <sup>4</sup>	DBE or SBE (Y/N)	Portion of Work (%)	Contract Amount (\$)	Amount of Change Orders to Date (\$)	Total = Contract Amount + Change Orders (D+E) (\$)	Amount Invoiced This Period (\$)	Previously Invoiced Awaiting Payment (\$)	Total Amount Paid to Date (\$)	Total Retention to Date <sup>1</sup> (\$)	Percent Complete to Date ([G+H+I +J] / F) (%)	SBE Participation Type <sup>2</sup>	SBE Participation Percentage <sup>3</sup> (%)	SBE Participation Lump Sum <sup>3</sup> (\$)	SBE Total Contract Amount <sup>3</sup> FxM+N (\$)	Percent SBE Contract Amount (O/F) (%)	SBE Amount Paid to Date (\$)	Percent SBE Paid to Date (Q/I) (%)
					\$0.00					#DIV/0!				\$0.00	#DIV/0!		#DIV/0!
					\$0.00					#DIV/0!				\$0.00	#DIV/0!		#DIV/0!
					\$0.00					#DIV/0!				\$0.00	#DIV/0!		#DIV/0!
					\$0.00					#DIV/0!				\$0.00	#DIV/0!		#DIV/0!
					\$0.00					#DIV/0!				\$0.00	#DIV/0!		#DIV/0!
					\$0.00					#DIV/0!				\$0.00	#DIV/0!		#DIV/0!
					\$0.00					#DIV/0!				\$0.00	#DIV/0!		#DIV/0!
					\$0.00					#DIV/0!				\$0.00	#DIV/0!		#DIV/0!
					\$0.00					#DIV/0!				\$0.00	#DIV/0!		#DIV/0!
					\$0.00					#DIV/0!				\$0.00	#DIV/0!		#DIV/0!
					\$0.00					#DIV/0!				\$0.00	#DIV/0!		#DIV/0!
TOTAL		0	0	0	0	0	0	0	0	#DIV/0!	0	0	0	0	#DIV/0!	0	#DIV/0!

<sup>1</sup> As retention is requested and paid, move out of "Total Retention to Date" and into "Amount Paid to Date"

<sup>2</sup> SBE Participation Types: (Select 1 Only) SBE Prime Contractor, SBE Subcontractor, SBE Joint Venture Partner, SBE Regular Dealer, Other SBEs, SBE Trucking Company (refer to TJPA Board Policy No. 015 Section IV)

<sup>3</sup> If SBE participation is Other SBE, SBE Joint Venture Partner or SBE Trucking Company enter lump sum participation in column N in lieu of column M (Refer to TJPA Policy No. 015 Section IV)

<sup>4</sup> If SBE Firm has multiple participation types each type should be listed as separate line item



# TRANSBAY TRANSIT CENTER

Site Specific Safety Program Revision 4

# March 23, 2012

WEBCOR/OBAYASHI JOINT VENTURE SAN FRANCISCO, CA

EXHIBIT H

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## WEBCOR/OBAYASHI JOINT VENTURE STATEMENT ON SAFETY

It is the policy of Webcor/Obayashi Joint Venture to provide employees a safe place to work. The personal safety and health of each employee of this company is of prime importance. The prevention of accidents and injury will be given precedence over operating productivity whenever necessary. To the greatest degree possible, management will provide facilities required for personal safety and health.

Our objective is a program that will reduce the number of injuries to a minimum and to surpass the best experience of other operations similar to ours. Our goal is zero accidents and injuries.

Our policy will be implemented as follows:

- Management will continue to develop policies and procedures that will assist in the control of personal injury, property losses, and fleet damage. Direct and indirect costs associated with these types of losses contribute unfavorably to operating expenses. These policies and procedures will be reviewed and updated as needed.
- Safety is the direct responsibility of all personnel. Safety is of prime importance to production and quality.
- Safety on the job in all company facilities and job sites is a priority. In no instance will safety become secondary to any other considerations. Any recognized safety activity or hazard will be corrected.
- It is mandatory that all personnel engaged in work on this project comply with all Federal, State and Local safety codes and regulations throughout the duration of their construction on this project.
- Each site will have a supervisor available to support the safety effort.
- Each supervisor and employee will be assigned various levels of safety responsibility and authority. All employees will be held accountable for the safety policy.
- An established system of communication, measurement, and documentation exists throughout the company.

A Safety Committee is in place to formulate and update the company safety program and policies. This committee operates under the supervision of management.

# HEALTH AND SAFETY COMMUNICATIONS

### Orientation

This training will contain required elements stipulated by Webcor/Obayashi Joint Venture code of safe work practices.

The Webcor/Obayashi Joint Venture site-specific safety orientation will be approximately one half (1/2) hour to 45 minutes in duration. The orientation includes a discussion on site protocol, evacuation procedures and a description of the logistics of the site. Subcontractors are required to provide other task specific orientations as needed.

### **Click Safety Program**

**Project:** Transbay Transit Center Notification of Online Contractor Safety Training Initiative

Webcor/Obayashi Joint Venture and ClickSafety have partnered to create a web-based Contractor Safety orientation course for the Transbay Transit Center. All contractors requiring access to the Transbay Transit Center project must complete the Safety Passport orientation-training course online through ClickSafety. This course addresses site-specific safety expectations/requirements that you and your employees are expected to understand and comply with while working on the premises.

### **Project Requirements**

ClickSafety is the leading provider of web-based safety and risk management systems for the Construction Industry. ClickSafety will be providing the online training and tracking system used to deliver safety orientation. You will be required to have <u>ALL</u> your employees successfully complete the online **Safety Passport Orientation**, **Transbay project specific training** and the **Click Green Construction Practices** through the ClickSafety system prior to their arrival onsite. The average employee should take <u>30 minutes</u> to complete the Safety Passport and 15 minutes for Transbay project specific training and 10 minutes to complete Click Green Construction Practices. The course will be available in both English and Spanish.

### **Project Fees**

The fee structure for ClickSafety services is a ......\***\$100 annual fee per user.** \*Prorate will apply to those that begin the training after Q1 of the current year.

### The prorate schedule is as follows:

January 1 – March 31	\$100	Valid January - December 2012
April 1 – June 30	\$75	Valid April 1 – December 2012
July 1 – September 30	\$50	Valid July 1 – December 2012
October 1 – December 31	\$25	Valid October 1 – December 2012

### **ClickSafety Account Setup, User Registration and Implementation**

Step 1: Go to the project page – http://www.clicksafety.com/safetypassport-transbay Step 2: Create a company account. If you already have an account with ClickSafety, you will still need to register your <u>existing account for this project</u>. Click on the 'Company' tab above the 'User' Step 1 on the home page, and then click on 'Register Company'.

Step 3: Assign Safety Passport Core Orientation (annual training) along with site specific training.

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Step 4: Prepay for employee training with a credit card and create an access code. Step 5: <u>Direct all employees to the project page to self-register with your access code and complete</u> training prior to arrival at the jobsite.

For general information about this project or registration assistance, please contact: ClickSafety Support at (925) 855-SAFE (7233) ext. 629 - cshelp@clicksafety.com

A ClickSafety representative is available to answer any of your questions about this program. The ClickSafety program administrator is: Christina Parkin, Account Manager, (925) 208-2618, Email: cparkin@clicksafety.com.

Should you have specific questions regarding the project or safety requirements, you may contact:

Lindsay Miller Safety Engineer Webcor/Obayashi Joint Venture T 510-476-2589 C 650-288-8034 Lindsay@webcor.com

We appreciate your attention in this matter and look forward to a continuing and successful business relationship.

### Disclaimer

ClickSafety and Webcor/Obayashi Joint Venture make this training material available with the understanding that users exercise their own skill and care with respect to its use. It is the duty of each employer as specified in the Occupational Safety and Health Act of 1970 (P.L. 91-596) to furnish to each of his employees employment and a place of employment which is free from recognized hazards that are causing or likely to cause death or serious physical harm to his employees and must comply with the applicable occupational safety and health standards adopted for his / her type of work. In addition, each employee must comply with occupational safety and health standards and all rules, regulations, and orders which are applicable to his or her own actions and conduct.

### **Project Supervisory Requirements**

All supervisory personnel shall have as a minimum the OSHA 30 Hour Construction Safety training within the prior four years and possess a current CPR /First Aid and AED certification. In addition supervisory personnel shall have at a minimum 5 years' experience as a superintendent in a similar type of project.

### **Project Safety Staffing Requirements**

Every trade subcontractor shall employ full time Site Safety Representative (SSR) to coordinate project safety requirements. The SSR shall have at a minimum all the following qualifications:

The SSR must hold a current CHST certification and shall have attended the OSHA Standards for the Construction Industry (OSHA 510) training program.

The SSR shall have 3 years prior experience working in a like project or condition, and possess a current CPR /First Aid and AED certification.

A full time SSR is required up to 50 employees including tiered subcontractors, office and field staff/supervision. For each additional 50 employees, another SSR shall be required including tiered subcontractors. (I.e. at 151 employees there will be 3 SSR's and so on.) This applies to all shift work and

off hour or weekend work. The SSR shall have no other duties than full time safety. The Site Safety Representative (SSR) are subject to Webcor/Obayashi Joint Venture's approval and may be removed at any time with or without cause and replacement personnel provided at the subcontractor's/employer's expense.

Every trade subcontractor shall employ full time Designated Safety Representative (DSR). The DSR shall have at a minimum all the following qualifications:

The DSR must hold a current OSHA 30 certification and shall have attended the OSHA Standards for the Construction Industry (OSHA 510) training program.

The DSR shall have 2 years prior experience working in a like project or condition, and possess a current CPR /First Aid and AED certification.

A full time DSR is required up to 25 employees including tiered subcontractors, office and field staff/supervision. For each additional 20 employees, another DSR shall be required including tiered subcontractors. (I.e. at 45 employees there will be 2 DSR's at 65 employees there will be 3 and so on.) This applies to all shift work and off hour or weekend work. The DSR shall have no other duties than full time safety. The designated safety representative (DSR) are subject to Webcor/Obayashi Joint Venture's approval and may be removed at any time with or without cause and replacement personnel provided at the subcontractor's/employer's expense.

An SSR or DSR must be on site at all times work is in progress including day shift, off-hours shift work or weekend work. Each work zone must have a dedicated SSR or DSR at all times work is in progress including day shift, off-hours shift work or weekend work as needed.

### Jobsite Safety Observations/Audits

Webcor/Obayashi Joint Venture project management will perform jobsite safety observations/audits. Superintendents should perform documented daily safety audits. Project Managers and Project Engineers should perform documented weekly safety audits. SafeSiteOne should be used to document safety inspections

### SafeSiteOne Safety Inspection Program

### Daily safety inspections using SafeSiteOne are required for all Subcontractors performing labor at the

*jobsite*. SafeSiteOne is a Web-based safety software product that is used by Webcor/Obayashi Joint Venture to document, track and analyze daily job site safety performance. A version of the product has been designed to provide Webcor/Obayashi Joint Venture subcontractors with an easy to use feature set delivering new safety process efficiencies, safety performance tracking and a convenient, cost-effective means to comply with Webcor/Obayashi Joint Venture subcontractor safety documentation and reporting requirements. A job site safety inspection form and accident form are provided for subcontractors to document their own work area safety inspections and worker accident and injury information for automated distribution to Webcor/Obayashi Joint Venture eliminating the time and cost burdens of maintaining separate manual processes for documentation, reporting and data distribution. Accident and safety violation tracking tools in the way of data tables and charts displayed on an information Dashboard are provided for subcontractors to monitor their job site safety performance, identify and respond to trends and indicators and continuously improve their safety strategies. Using the product, subcontractors can view all job site safety violations to which they are assigned by Webcor/Obayashi Joint Venture during Webcor/Obayashi Joint Venture site safety inspections and be able to respond and track their closure. Subcontractors will be able to track their own safety records relative to the performance of all subcontractors on the job site providing an ongoing assessment and identifying accomplishments of their safety performance. Subcontractors shall include \$75.00 per month to cover the costs of the SafeSiteOne Product.

Additional features, forms and product customizations can be made available to subcontractors by contacting MedicaOne directly at <u>info@medicaone.com</u> or by calling (415)661-7587. More information is also available by visiting the SafeSiteOne Web site at <u>www.safesiteone.com</u>.

### Pre-Task Planning/Job Hazard Analysis

Written, detailed Job Hazard Analysis is required prior to the start, *at a minimum*, for the following activities:

- Chemicals: hazardous & irritant
- Concrete: pre-cast, tilt up, vertical, form work
- Confined Space
- Hoisting/rigging activities: including cranes, derricks, forklifts, straddle buggies, etc.
- Demolition activities & hazardous materials assessment: asbestos, lead, biohazards or other chemicals in the workplace, as well as general demolition hazards assessment
- All framing activities (including drywall)
- Excavation & trenching
- Fall hazards: exposures 6+ feet, overhead work
- Material handling
- Non-routine activities: activities not performed in the last six months
- Public exposure: phased occupancy, partial demolition, traffic control, etc.
- Scaffolding
- Steel erection
- Start Up/Shut Down/System Testing activities: tool hook up, introduction of process chemicals into systems, utility tie ins, lockout/tag out, work on energized equipment

### **General Job Hazard Analysis Guidelines**

- JHA planning is to be led by the supervisor and documented in writing
- <u>Conducted daily prior to start of work for every task.</u>
- All crew members participate (at the job location) in JHA planning and should sign the completed plan
- Should include hazards and precautions identified in work activities
- Should be readily available at the work site (posted and/or placed where crew members have knowledge of its location at the work area)

JHA plans should be reviewed and revised whenever work conditions (or crew membership) change that may affect the ability to safely complete the work.

### **Incident Reporting/Root Cause Analysis**

This Webcor/Obayashi Joint Venture project plan will be developed incrementally as trade packages are awarded and trade subcontractors are brought on board. Each trade subcontractors plan will become part of Webcor /Obayashi's overall project Documentation and Reporting policy and will be submitted to the Joint Transit Power Authority as they are received.

This Section will conform to Specification Sections 01 13 40 (1.5 A thru C) 01 15 45 (1.9 A thru C) found in The Transbay Transit Center Contract Number 08-04-CMGC-000

The TJPA Representative will in writing inform Contractor of any additional hazardous condition encountered. Trade Sub contractor shall respond indicating its action or disposition of the matter by returning an annotated copy of the written communication to the TJPA Representative within 3 days. If death or serious injuries or serious damages occur, the accident shall be reported at once by telephone or messenger to the TJPA as well as to the proper governing authorities. In addition, Contractor shall promptly report in writing to the TJPA all accidents whatsoever arising out of or in connection with the performance of the work whether on or adjacent to the site, giving full details and statements of witnesses. Within 3 days of occurrence, the Sub Trade contractor shall provide the TJPA with 2 copies of the Sub Trade contractor's accident and near-miss reports. A significant accident is defined to include events where personal injury is sustained or tangible property loss is sustained, or where the event posed a significant threat of loss or personal injury. If a claim is made by anyone against the any Trade Subcontractor on account of any accident, the Sub Trade contractor shall provide the TJPA Representative copies of any laboratory test data, and medical monitoring results for record and evaluation within 3 days of receipt of the above information or upon the request of the TJPA Representative.

All incidents and accidents shall be immediately reported to Webcor/Obayashi Joint Venture Project Management/Safety and fully investigated. Investigation and root cause analysis should be completed to identify the primary reason the incident occurred with an action plan developed to prevent recurrence. Incident Reporting and Root Cause Analysis guidelines are discussed further in the following Appendices.

### Safety and Health Training/Information

This Webcor/Obayashi Joint Venture project plan will be developed incrementally as trade packages are awarded and trade subcontractors are brought on board. Each trade subcontractors plan will become part of Webcor /Obayashi's overall project Documentation and Reporting policy and will be submitted to the Joint Transit Power Authority as they are received.

### This Section will conform to Specification Section 01 15 45 (1.10A) found in The Transbay Transit Center Contract Number 08-04-CMGC-000

The Trade Subcontractor shall maintain on-site all training records in accordance with federal, state, and local statutes, regulations, and policies, and provide copies of these records to the TJPA upon request.

New workers will be provided with initial training and/or orientation prior to assignment or when assigned to a new task for which training has not been received. Supervisors are expected to be knowledgeable and informed on hazards and safe work practices in their area of responsibility and to coordinate the disbursement of this information to crews. Training will include general area and specific assignment topics. Documentation of required training will be made available to Webcor/Obayashi Joint Venture Project Management and/or Webcor/Obayashi Joint Venture safety upon request. Training, to include refresher training will be provided in accordance with Federal/State OSHA guidelines (Refer to Appendices for additional information on required training). Training may include, but not be limited to:

- Aerial/Boom Lifts;
- Asbestos awareness
- Confined Space Entry;
- CPR/First Aid;
- Electrical;

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- Excavation & Trenching;
- Fall Protection;
- Fire Watch;
- Forklift;
- Hazard Communication;
- Hazardous Chemicals;
- Ladders;
- Lasers;
- Lead awareness
- Lockout/Tag out
- Powder Actuated Tools
- Respiratory Protection;
- Rigging
- Scaffolding: Use & Erection/Dismantle;
- Steel Erection;
- Job Hazard Analysis;
- Accident investigation training for Foremen & Superintendents;

## CODE OF SAFE CONDUCT AND WORK PRACTICES

The following Safety Procedures will be complied with on the Transbay Transit Center project. These Safety Procedures are in accordance with Webcor/Obayashi Joint Venture Safety Program and the division of Industrial Safety Cal/OSHA Construction Safety Orders.

### General

This Webcor/Obayashi Joint Venture project plan will be developed incrementally as trade packages are awarded and trade subcontractors are brought on board. Each trade subcontractors plan will become part of Webcor /Obayashi's overall project Health and Safety Plan (HASP) and will be submitted to the Joint Transit Power Authority as they are received. All subcontractors must submit their Company's Project Safety Program to the Project Site Safety Manager prior to the start of their work.

As a minimum, the subcontractor's Safety Program shall meet or exceed Webcor/Obayashi Joint Venture safety requirements, the applicable parts of the Webcor/Obayashi Joint Venture Corporate Safety Manual, the contract documents and federal, state, local or other applicable regulations.

Prior to Subcontractors arrival, measures to identify, monitor and control the worker and the general public from identified hazards shall be included in their safety plans. The Program shall be reviewed by the Site Safety Manager who may require, from time to time, additional written Safety Procedures as may be necessary to address the potential hazards of their operations.

### **Contractor Weekly Safety Meetings**

Subcontractors and tiered subcontractors are <u>required</u> to hold Weekly Safety "Tool Box" Meetings with their field crews. Submit copies of meetings including Safety subjects discussed and attendance, to the Webcor/Obayashi Joint Venture Site Safety Manager. Webcor/Obayashi Joint Venture will provide assistance and information to subcontractors and their sub-subcontractors as requested.

In addition, subcontractors and tiered subcontractors are to attend monthly or whenever determined by Webcor/Obayashi Joint Venture all hands safety meeting.

### **Personal Protective Equipment**

### Hardhats

All persons employed on this project are required to wear ANSI Z89.1-approved hardhats as a condition of employment. All visitors on the jobsite will be required to wear hardhats while on the project site. Any person refusing to wear a hardhat will be <u>immediately dismissed</u> from the **project site.** Metal hardhats and "Cowboy" hardhats are not allowed to be worn. 100% hardhats are required at all times while on the project.

### **Eye Protection**

The wearing of eye protection will be strictly enforced at all times. 100% safety glasses are required at all times while on the project.

### Hand Protection

Hand protection must be worn 100% of the time on the project Gloves must be worn in any situation where hand/finger exposure to hazards exist, unless the manufacture of the equipment being used states gloves should not be worn.

### **Foot Protection and Clothing**

All personnel shall wear safety vests, work boots or acceptable work shoes while employed on this project and keep their footwear in good condition at all times. Long pants and shirts with "T-shirt-length sleeves shall be worn at all times. No sneakers, tennis shoes, soft-suede/canvas hiking boots, tank tops, etc., will be allowed. Foot covers must be used with jumping jack compactors and jackhammers.

### **Hearing Protection**

Each subcontractor shall provide and enforce the use of hearing protection for all workers exposed to noise levels as required by law.

### **Contractor Parking**

There is <u>no subcontractor onsite parking</u> on the project. Subcontractors and sub-subcontractors in violation of this request will be towed at their expense without further notice. Because of the restricted nature of the project, this rule will be strictly enforced.

### Job Vehicular Traffic and Material Deliveries

Only company-owned vehicles with signage are continuously required for the pursuit of subcontractor's and sub-subcontractor's work, and trucks delivering materials will be allowed access to the project site.

All construction vehicle traffic access will be coordinated by Webcor/Obayashi Joint Venture.

Subcontractors are reminded that continuous 2-way vehicular traffic must be maintained at all times for safe public accessibility unless posted otherwise. Two-way traffic control is to be provided by subcontractors prior to delivery vehicles entering the property.

Subcontractors are to notify Webcor/Obayashi Joint Venture 48 hours in advance for approval of material deliveries. Delivery vehicles will unload and depart the project site as soon as possible.

Material storage and layout must be approved by Webcor/Obayashi Joint Venture prior to delivery.
#### **Temporary Offices**

Temporary offices will be constructed of fire-resistant materials only. Temporary office locations must be approved by Webcor/Obayashi Joint Venture prior to installation.

#### **Fire Protection**

In case of a fire or explosion, notify Webcor/Obayashi Joint Venture immediately so that necessary emergency fire-fighting equipment can be routed to the jobsite. Emergency phone numbers will be posted in such a manner so as to be clearly visible. Each trade is responsible for providing fire extinguishers and a fire-watch program for their work <u>as required</u> in renovation and new construction areas. Reference Webcor/Obayashi Joint Venture's Fire Prevention Program.

#### **Cleanup and Housekeeping**

Subcontractors and sub-subcontractors shall leave the site clean and free of debris and hazardous materials by the end of each working day to the satisfaction of Webcor/Obayashi Joint Venture. Each subcontractor is responsible for removal of debris created by their work. Rubbish containers will be placed at a central location for the removal of trash and debris. Accumulation of trash and debris will not be tolerated. Webcor/Obayashi Joint Venture will perform necessary cleanup of same, at subcontractors' expense, upon failure to comply with cleanup notice request.

#### **Drinking Water**

Subcontractors shall provide potable drinking water, cups, and garbage cans for their employees.

#### **Security Services**

Subcontractors and sub-subcontractors shall be responsible for the security of toolboxes, onsite storage materials, etc.

#### **Noise Control**

This Webcor/Obayashi Joint Venture project plan will be developed incrementally as trade packages are awarded and trade subcontractors are brought on board. Each trade subcontractors plan will become part of Webcor /Obayashi's overall project noise control plan and will be submitted to the Joint Transit Power Authority as they are received.

# This Section will conform to Specification Section 01 35 65 (1.2E) (1.8B), (1.8C) found in The Transbay Transit Center Contract Number 08-04-CMGC-000

Trade Subcontractors shall conduct noise inspections and noise testing of equipment to ensure that all equipment on the Site is in good condition and effectively muffled per manufacturer's recommendation. Noise control shall be maintained by the subcontractors in all areas of construction, guarding against undue noise. Playing of radios, including headsets, is prohibited.

All motor-drive equipment shall have a proper exhaust system, which shall meet Cal/OSHA Standards on noise levels. Subcontractors are to provide proper hearing protection to employees using chipping guns, jackhammers, rock drills, or similar devices.

#### Combustible Material (Gas, Oil, Oxygen)

Separate storage areas for acetylene, oxygen, and gasoline will be established by Webcor/Obayashi Joint Venture. The contractor shall post proper warning signs. All gasoline will be in containers that will meet

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NFPA and Cal/OSHA requirements, and will be stored in designated areas only. All acetylene and oxygen bottles will be attached to a cart when in use, or tied off in a vertical position. All carts must be equipped with a fire extinguisher.

All stored oxygen and acetylene must be separated from each other, by a minimum of 20 feet or a firerated barrier, with bottle caps secured in place as required by Cal/OSHA.

#### Ladders

Fall prevention shall be considered by the competent person if employees work from a ladder 6' or more above a lower level. Metal ladders shall not be used on Webcor/Obayashi Joint Venture projects. When ascending or descending a ladder, employees shall maintain a three-point contact and not carry anything that could cause them to fall. Pull ropes should be placed at all access ladders to lift tools or equipment from level to level. As a minimum, only type 1 or 1-A Heavy/Extra Heavy duty ladders, which carry a minimum of 275 lbs. to 300 lbs., will be allowed on Webcor/Obayashi Joint Venture projects.

#### Scaffolds

All scaffolds will be constructed and maintained so as to meet all Safety requirements of Cal/OSHA and Webcor/Obayashi Joint Venture. Failure to maintain scaffolds in good condition will result in removal by Webcor/Obayashi Joint Venture. All scaffolds must have top rails, mid rails, and toe boards at all platform levels. All scaffolds are to be built under the supervision of a competent person. The person's name and their qualifications shall be submitted in writing to Webcor/Obayashi Joint Venture prior to the start of work. Daily pre-shift inspection checklists shall be performed by a competent person, maintained by the subcontractor and submitted to Webcor/Obayashi Joint Venture upon request.

100% fall protection is required at all heights above 6'. A competent person shall determine if it is feasible to use fall protection devices while erecting/dismantling a scaffold. Rolling scaffold wheels shall be locked when in use. A horizontal, diagonal brace shall be in place to prevent the scaffold from "wracking". Cross bracing shall not be used as a top or mid rail.

#### **Fall Protection**

Webcor/Obayashi Joint Venture maintains a **zero tolerance policy** for fall protection infractions. Anyone found violating this policy may be removed from the site immediately.

Subcontractor employees are required to provide and use 100% fall protection systems whenever exposed to a fall 6' or greater, including any leading edge work. This can be accomplished through the use of a safety net system, personal fall arrest system or a guardrail system. <u>Webcor/Obayashi Joint Venture</u> <u>does not allow the use of a Safety Monitor System.</u>

Each subcontractor is responsible for providing perimeter tie-off protection for its employees. The building perimeter cable is placed as a guardrail protection, and is not provided for tie-off protection.

#### Electrical

Ground Fault Circuit Interrupter (GFCI) protection is required for all electrical cords and tools. Each subcontractor shall provide GFCI-protected power strips for use in the building when permanent power has been energized and permanent outlets are placed in service. Each contractor will be responsible for providing and maintaining temporary GFCI's for his or her employees if a GFCI receptacle is not available.

#### Lockout/Tag out Procedures

Subcontractors shall submit their written LOTO program and documented employee training <u>prior to</u> <u>beginning work on site</u>. The program must include scope of training, pre-planning and specific LOTO procedures. All individuals who are working in or around the hazardous energy shall place their own lock and tag on the disconnect of the energy source. At no time will someone be allowed to remove another employee's lock unless it has been cleared through Webcor/Obayashi Joint Venture competent supervision.

#### Floor Openings/Hole Cover Procedures

Subcontractor competent person is responsible for identifying any floor opening/hole requiring to be protected. All floor openings/holes shall be covered/protected using appropriate materials. The covers must be able to withstand 2x the load and be secured to the floor and will be inspected daily by the subcontractor competent person. All floor/hole covers shall be clearly marked "Hole Do Not Remove" in a high visible color. All hole covers must be in compliance with OSHA's 29 CFR 1910.23 (a) – 1910.23 (e) 11.

The building perimeter, shafts, and floor openings shall be protected with guard rails and toe boards. Personnel working at a stationary position within 6'-0" of the building perimeter or the edge of a shaft or a floor opening will wear a full body harness and be tied off with an appropriate lifeline. Subcontractors and tiered sub-subcontractors shall not remove any guard rail or fall protection device without the express consent of, Webcor/Obayashi Joint Venture any employee noticed removing such protection without authorization will be removed from the project without recourse. Any area where guardrails and toe boards have been removed shall not be left unattended during a shift. In no case will any guardrail or toe board be left down at the end of a shift.

In locations where temporary protection conflicts with scheduled construction, the subcontractor or the sub-subcontractor shall notify Webcor/Obayashi Joint Venture in advance of the work of necessary modifications. The subcontractor or the sub-subcontractor shall remove the temporary protection and provide other appropriate temporary measures for the performance of their work.

#### Safe Lifting

All personnel are to be instructed in the proper methods of lifting heavy objects. These instructions will be discussed at Safety and "Tool Box" Meetings.

#### **Powder Actuated Tools**

Only low-velocity-type tools will be allowed on this project. Special permission from Webcor/Obayashi Joint Venture must be obtained before high-velocity types can be used, and then only if the job requires it. All personnel working with powder-actuated tools shall be property instructed and licensed for operation of the tool and shall be in possession of current certification while using powder-actuated tools. Warning signs shall be posted in the work area where powder-actuated tools are in use.

#### Dismissal From Project <u>THE FOLLOWING IS PROHIBITED AND THE INDIVIDUALCAN BE SUJECT TO</u> DISMISSAL F<u>ROM THIS PROJECT SITE FOR VIOLATION</u>:

- Fighting and horseplay.
- Alcohol consumption or controlled-substance use on the site.
- Crowding or pushing while accessing work levels on ladders, scaffolds, etc.
- Throwing trash or any objects from the building.

- Using fire equipment (extinguishers, etc.) for other than its intended use.
- Destroying property or the work of other trades.
- Stealing.
- Gambling on the project site.
- Unsafe work habits.
- Persons using prescribed medication must notify his/her employer of such use prior to going to work or taking the medication.
- Working while your ability or alertness is so impaired by illness or fatigue or other causes that it might unnecessarily expose you or others to injury.
- Noncompliance of any Safety rules and regulations.
- Lewd or abusive language towards jobsite personnel, Owner's personnel, or any member of the public.

#### First Aid

All subcontractors and tiered subcontractors are required to have a **CPR/First Aid certified persons and** First Aid Kit available at the jobsite with contents meeting the requirements of Cal/OSHA. Each subcontractor shall make arrangements for medical aid at a facility as provided through their insurance carrier.

#### Use of Tools and Equipment

Each subcontractor is responsible to provide proper instructions for their employee's use of all tools and equipment.

When the use portable electric or pneumatic tools is needed, proper safety guards must be in place and operational. Power tool cord "whips" must meet NEC requirements. Air compressor hoses must be "clipped" together. Tools are not to be raised or lowered by their cords or air hoses.

#### **Hazardous Material Handling**

This Webcor/Obayashi Joint Venture project plan will be developed incrementally as trade packages are awarded and trade subcontractors are brought on board. Each trade subcontractors plan will become part of Webcor /Obayashi's overall project Hazardous Material Handling plan and will be submitted to the Joint Transit Power Authority as they are received.

# This Section will conform to Specification Sections 01 13 50 (1.4B and C) and (1.8D) found in The Transbay Transit Center Contract Number 08-04-CMGC-000

Currently Webcor/Obayashi Joint Venture does not anticipate based on the scope of work to have any excavations that will require special protection. In the event the situation does arise, The Trade Subcontractor will submit all appropriate documentation (protections, support systems, inspection process, access) preceding the activity.

#### **Hazardous Communications Program**

All subcontractors are to comply with Webcor/Obayashi Joint Venture's Hazard Communication Standard Policy. If you are allergic to cement or are susceptible to lime burns or skin disorders, notify your supervisor in order to make sure you are not assigned work with those substances. If you are allergic to or cannot use any other chemicals, notify your supervisor.

#### **Confined Space**

No person shall enter a confined space such as manholes, underground vaults, tanks, pipes, tunnels, or other similar places until it is determined that it is Safe to enter the space by an approved method. Subcontractor competent person is responsible for identifying any potential confined space and shall initially determine if a permit required confined space exists. A pre-planning meeting must be held if a confined space exists and proper procedures followed to ensure worker safety.

#### **Traffic Work Zone Signaling Requirements**

Due to general liability exposure created by improper traffic control, all flagging, training, lane closures, etc. shall conform to the most current edition of the Manual on Uniform Traffic Control Devices (MUTCD). Local permitting issues shall be addressed by Webcor/Obayashi Joint Venture prior to the start of work. All workers in the traffic control area must be trained according to local, state and federal requirements and wear the appropriate reflective vest or high visibility clothing. Stop/Slow paddles, not flags, must be used to control traffic flow.

#### Equipment

Machinery and equipment shall be inspected and documented daily in addition operated by authorized, trained personnel only. All operated equipment shall have backup alarms in working order. Operators shall inspect each work area to make sure that it is Safe to operate the equipment in that area. Equipment shall not be serviced or repaired while it is in motion or running, unless there are appropriate Safeguards in place to prevent injury. Fuel-operated equipment, such as generators, air compressors, welders, etc., shall have a dedicated fire extinguisher near the equipment at all times when it is in operation. Fire extinguisher shall be rated 10 ABC, minimum.

#### **Excavation and Trenching**

This Webcor/Obayashi Joint Venture project plan will be developed incrementally as trade packages are awarded and trade subcontractors are brought on board. Each trade subcontractors plan will become part of Webcor /Obayashi's overall project Hazardous Materials Handling plan and will be submitted to the Joint Transit Power Authority as they are received.

# This Section will conform to Specification Sections 00 07 00 (I), 00 08 14(1.2B), 00 08 14(1.4), 00 08 14(1.5B) and 01 35 65 (1.7C) found in The Transbay Transit Center Contract Number 08-04-CMGC-000

Pursuant to section 6705 of the California Labor Code, excavation for trenches 5 feet or more in depth shall not begin until Webcor/Obayashi Joint Venture has received acceptance from the TJPA of Webcor Obayashi's detailed plan for worker protection from the hazards of caving ground during excavation of such trenches. Webcor Obayashi's shoring plan shall be submitted in accordance with the requirements of the Specifications and shall show the details and supporting calculations of the design of shoring,

bracing, sloping, or other provisions to be made for worker protection during such excavation. No plan shall allow the use of shoring, sloping or other protective system less effective than that required by the Construction Safety Orders of the Division of Occupational Safety and Health. If Webcor/Obayashi Joint Venture shoring plan varies from the shoring system standards established by the

Construction Safety Orders, the plan shall be prepared and sealed by an engineer retained by

Webcor/Obayashi Joint Venture who is registered as a civil or structural engineer in the State of California. The TJPA's acceptance of Webcor/Obayashi Joint Venture shoring plan shall not be construed to relieve Webcor/Obayashi Joint Venture of its sole responsibility for damage or injuries related to the excavation resulting from unsafe shoring.

Currently Webcor/Obayashi Joint Venture does not anticipate based on the scope of work to have any excavations that will require special protection. In the event the situation does arise, The Trade Subcontractor will submit all appropriate documentation (protections, support systems, inspection process, access) preceding the activity.

The trade Subcontractor will comply with all requirements of federal OSHA, Cal/OSHA, the California Labor Code, Trade Subcontractor safety requirements, and these Contract Documents. The more stringent requirements shall apply.

Should Trade Subcontractors be notified by the TJPA of any unsafe or unhealthy condition associated with the performance of the Work and be required to take remedial action to correct such conditions, Trade Subcontractors shall take action immediately, if so directed, or within 48 hours after receipt of a notice of violation.

The health and safety plan shall be certified by Trade Sub Contractor's competent hazardous materials supervisor and submitted to the TJPA for review and comment prior to implementation.

Prior to commence of earthwork activities the Trade Subcontractor shall review the, SMP. Submit for approval a comprehensive and site specific HASP prepared by a certified industrial hygienist.

Daily, pre-shift inspection of excavations, the adjacent areas and protective systems shall be made by the competent person for evidence of potential cave-ins, hazardous atmospheres or protective system failure. Daily, pre-shift inspection checklists shall be maintained by the subcontractor and submitted to Webcor/Obayashi Joint Venture weekly.

No person shall enter an excavation where protection from ground movement is required until such protection is in place. **100% fall prevention is required when working next to excavations greater than 5' in depth.** Ladders or other means of approved access shall be used for all excavations. Stepladders shall not be used in a "leaning" position to enter or exit excavations.

#### **Respiratory Protection**

- Conditions may exist which require the utilization of respiratory equipment to protect employees against exposure to the inhalation of toxic or harmful gasses, vapors, mists, fumes and dust. Each Contractor must implement and enforce a respiratory program in accordance with CAL/OSHA standards to protect employees from these types of exposures.
- Only respirators that are applicable and suitable for the purpose intended will be used. They will be selected on the basis of the hazards to which the employee is exposed.
- Employees required to use respiratory protective equipment approved for use in atmosphere immediately dangerous to life shall be thoroughly trained in the use and limitations of such equipment.
- Respiratory protective equipment will be inspected regularly and maintained in good condition. Chemical cartridges will be replaced per manufacturer's recommended or calculated filter change-out

schedule so as to provide complete protection. Dust respirators are to be replaced in accordance with manufacturer specifications.

- Respiratory protective equipment, which has been previously used, shall be cleaned and disinfected before it is issued to another employee.
- Workers required to wear respiratory protection shall have been medically evaluated and approved to wear such devices. A copy of each of its worker's medical approval will be kept by each contractor on site.
- Employee Training (Respirators, Breathing Apparatus, etc.)
- All employees required to use personal protective equipment shall be given individual instruction by contractor regarding PPE prior to its use. This training shall be documented and a record kept on site.
- All employees must be clean-shaven to ensure the proper fitting of the respirator. Each contractor must perform fit testing on each employee to ensure the proper fit of the respirator. The results of the fit test shall be documented and a record kept on site.
- Each contractor must have a written respirator program and this program is to be submitted to the construction manager, General Contractor and Safety Coordinator prior to working at this site.

#### **Cranes, Hoisting and Rigging**

• Introduction

The safe operation and proper maintenance of cranes and rigging on the site shall be the overall responsibility of the contractor. Each contractor shall also be held accountable for compliance with CAL/OSHA crane regulations for all cranes or derricks on the site, whether contractor owned, leased or rented. All rigging inspection logs subcontractor and submitted to Webcor/Obayashi Joint Venture mothly.

- Riggers shall meet the qualified rigger requirements of subpart CC Cranes and Derricks in Construction, as specified in 29 CFR 1926.1401, 1926.1404, and 1926.1425. These provisions are effective November 8, 2010. The more stringent rule shall apply.
- Special Provisions
- Prior to its initial use on the site or after repairs have been made each crane or derrick shall be thoroughly inspected by a certified independent third party. Any deficiencies found shall be corrected before the equipment is placed into service.
- A copy of the annual certification inspection performed by a certified independent third party shall be submitted to the Webcor/Obayashi Joint Venture Safety Manager prior to the crane being operated on site.
- Each contractor shall designate a competent person who shall inspect all cranes and derricks daily as part of the contractor's job site inspection program. Such inspections shall be documented. Defective equipment shall be removed from service and repaired and service/repair shall be documented.
- The contractor or vendor supplying the equipment shall inspect each crane at least monthly and provide a written report as to the results of the inspection. Defective equipment shall be removed from service.
- Loads shall not be passed or suspended over persons.
- Tag lines or guide ropes shall be used to control all loads.
- Barricades for employee safety shall be maintained around the swing radius of the crane cab.
- Crane Operator Qualifications

- Each contractor shall as specified in 29 CFR 1926.1427. State or local government
- licensing is effective November 8, 2010 select only those personnel meeting the following qualifications to operate cranes and other hoisting equipment:
- Designated operators who have been licensed by an approved agency or union and meet the requirements of Chapter 5, ANSI B30.
- Crane operators will meet the minimum requirements by the D.O.T. Physical Examination, as provided in D.O.T. 391, Physical Examination for truck drivers. No crane operator will be allowed to operate a crane until they have passed the Physical Exam conducted by a licensed Physician approved by the D.O.T.
- Coordinators certified for crane inspection;
- Test and maintenance personnel when necessary.
- Only designated operators who have been licensed by an approved agency or union and meet the requirements shall be in, or on, the crane during operations.
- Operator's Responsibilities
- Each crane operator will be specifically assigned the responsibility for safe operations and shall be given written instructions as applicable. These responsibilities shall include:
- Verification of a current "annual inspection" certification for the crane.
- Verification that manufacturer's rated load capacities, recommended operating speeds, and special warnings or instructions are posted on the crane and are visible from the operator's station.
- Daily inspection of:
- Condition of brakes under no-load conditions
- Functioning of various safety devices and limiting devices fitted to the hoisting apparatus
- The electric power installation
- The overload controls
- Condition of structural members for cracks, bends, misalignment, etc.
- Fire extinguisher in cab
- Assuring that routine maintenance is performed, as well as necessary repairs.
- Responsibility for assuring that signaling and communications are adequate. This includes making sure that personnel at materials loading and receiving areas use correct hand signals. Where conditions require, radio communications will be used with a clear channel for crane operations.
- Refusing to lift any loads that are not safely rigged. This refusal cannot be overridden by job supervisory personnel.
- Making sure that adequate clearances exist between operating areas and nearby structures, especially power lines.
- Each crane operator shall ensure that good housekeeping is maintained in his or her equipment.
- Operating Procedures
- Each contractor shall ensure that its crane operators:
- Not engage in any practice, which may divert his attention while engaged in crane operations.
- Not operate the crane if physically or mentally unfit, or if taking prescription drugs, which may affect judgment.
- Not respond to any signal, which is unclear or is given by anyone other than appointed signalmen. Exception: The operator shall respond to a stop signal given by anyone.
- Have final responsibility and control over the crane operations. When there is any doubt as to safety, the operator shall have the authority to stop and refuse to handle the loads until safety has been assured. Any manager, supervisor or person attempting to bypass the crane operator's authority on this issue will be immediately removed from the project.

- Shall be intimately familiar and have thorough knowledge of the crane and its care, the operators' manual, and load charts. He shall be responsible for notifying its supervisor of any needed adjustments or repairs, and for logging his findings in the crane log.
- Shall, upon request, demonstrate his ability to determine total load weight and its relationship to the crane load charts.
- Immediately shut down the crane if any part of the crane, rigging or load strikes any object. The crane will be re-inspected by a qualified person, and if damage is detected, all repairs shall be completed under the guidelines of the manufacturer. The crane must then be re-inspected by a third party agency prior to beginning operations again.
- Never leave the controls while there is a load on the hook.
- Stop the crane operation if there are any problems and notify the Safety Coordinator.
- Contractor Responsibilities
- Making sure that rigging equipment is in good condition and provided with safety devices as applicable. This includes such things as:
- Safety latches on hoisting hooks.
- Chains, wire rope, slings, etc. are free from defects and conform with standard load ratings for work being done.
- Eye splices conform to safety standards.
- Employee Training
- Each contractor shall ensure that all of its employees involved in crane activities receive comprehensive training as to their responsibilities. This training shall include hand signals and those authorized to give signals. Said training shall be documented.
- Hoisting and Rigging
- Documented inspections of hoisting and rigging equipment shall be conducted by a competent person before their use to ensure that it is in safe operating condition and that lifts will be conducted in a safe manner.
- Damaged or defective equipment shall be removed from service and removed from the project site.
- Accessible areas within the swing radius of the rotating superstructure shall be properly barricaded to prevent employees from being struck or crushed by the crane.
- Lifts shall not be conducted over employees, visitors, or areas occupied by the public.
- The crane operator shall be responsible for determining the safe operation of their crane and the safety of each lift.
- Routes of suspended loads shall be preplanned to ensure no workers or the public are directly below suspended loads.
- Tag lines shall be used for controlling all loads.

## HAZARD COMMUNICATION STANDARD POLICY

This Webcor/Obayashi Joint Venture project plan will be developed incrementally as trade packages are awarded and trade subcontractors are brought on board. Each trade subcontractors plan will become part of Webcor /Obayashi's overall project Hazardous Material Communication plan and will be submitted to the Joint Transit Power Authority as they are received.

This Section will conform to Specification Sections 01 15 45 (1.2A1, 1.2A2),(1.13D),(1.4A), (1.4C) found in The Transbay Transit Center Contract Number 08-04-CMGC-000

Trade Sub contractors shall submit the following in accordance with this Contract specification: A HASP. Upon approval of the HASP, Contractor shall provide 2 copies on compact disc in Portable Document Format with properly labeled cases. MSDS (Materials Safety Data Sheet) for all chemicals and other hazardous materials to be used. This submittal is only as warranted. Trade Sub contractor's site-specific HASP. Trade Sub contractors shall submit a site-specific environmental HASP in accordance with these specifications and 29 CFR 1910.120, 8 CCR 5192. The HASP shall remain in effect throughout the life of the Contract, and a copy of the HASP must be on site at all times.

Trade Sub contractors shall submit 5 copies of the HASP at least 10 working days before any demolition or any building materials-disturbing activity, and no later than 30 days after the Notice to precede for each Trade Subcontract package. The TJPA will not review the HASP for its content, nor will the TJPA be liable for Contractor's failure to have an adequate HASP or implement it. Receipt of the HASP by the TJPA neither constitutes the legality of the HASP nor incurs liability with Trade Sub contractor.

- Each subcontractor is to submit a copy of its written Hazard Communication Program to the Webcor/Obayashi Joint Venture jobsite. An initial hazardous material/chemical listing for this specific jobsite must accompany the Program.
- All subcontractors are required to maintain MSDSs on the project.
- A complete file of all MSDSs submitted is to be located at the jobsite office for review by all workers during job hours (Webcor/Obayashi Joint Venture Subcontractors, and Sub-subcontractor/Suppliers).
- Noncompliance with this portion of the Webcor/Obayashi Joint Venture Safety Policy will be written up as a Safety violation and may result in a Safety fine and/or nonpayment to the subcontractor(s).
- Webcor/Obayashi Joint Venture is only required to train its employees to comply and observe the policy. It is the responsibility of each subcontractor and each sub-subcontractor to train his employees in the implementation and use of the Hazard Communication Policy.
- Each subcontractor will discuss each new substance introduced on the jobsite at the weekly Safety meetings with his crews and the Superintendents of other subcontractors at the Project Safety Meeting.
- Each subcontractor must label the contents of all containers including secondary containers. The label must identify:
  - Substance
  - Hazard Warnings
  - Name and address of the manufacturer
- Each subcontractor must:
- Train his personnel regarding Hazardous Communications, and specifically as t the dangers of working with these substances, chemicals, materials. Keep copies of training certificates at jobsite.
- Provide proper personnel protective equipment, as required.
- Train employees in the first-aid and medical emergency procedures associated with each material.
- Keep copies of all MSDSs at the jobsite.
- Bulk fuel storage is not allowed onsite.

# EMERGENCY MEDICAL PROCEDURES

The purpose of this program is to establish standard jobsite procedures for reporting accidents, administering first aid, and emergency medical procedures.

Each subcontractor and sub-subcontractor shall maintain a Cal/OSHA-approved First Aid Kit on the Project at all times. Each subcontractor shall designate an employee qualified in first-aid treatment as their Safety Coordinator. It shall be the Safety Coordinator's responsibility to treat minor injuries and complete and submit required accident reports to Webcor/Obayashi Joint Venture.

#### **Minor Injuries**

Minor injuries are those which require only immediate first-aid treatment and do not result in lost work time.

In the event of a minor injury, the subcontractor's Safety Coordinator shall provide first aid and/or take the injured employee to the designated medical center or clinic for treatment and checkup if necessary.

Persons who have sustained head injuries, major impacts, or whose injuries are the result of a fall shall be evaluated and stabilized by professional medical personnel and provided transportation to the medical facility by the subcontractor or EMT.

Upon return from treatment, the employee shall return to work <u>ONLY</u> if so released in writing by the attending physician.

All minor accidents shall be a topic of discussion at the subcontractor's next scheduled Safety Meeting, to include cause of accident and preventive measures to be taken to avoid future similar accidents.

#### **Major Injuries**

Major injuries or illness are those which require extended medical treatment with hospitalization for more than 24 hours resulting in loss of work time, or result in death, disfigurement, or dismemberment.

In the event of a major injury, the first person to encounter the injuries shall summon others to notify the Webcor/Obayashi Joint Venture Field staff and provide the appropriate first-aid treatment if qualified. Any subcontractor or sub-subcontractor may dial 911 to request medical assistance. Emergency vehicles shall be directed to enter the Project at site entrance that will be determined as conditions change on the logistic map.

Upon entering the project, the emergency vehicle shall be directed to the exact location of the injured.

While awaiting arrival of the Emergency Vehicle(s), the injured shall not be moved unless he/she is in immediate danger of additional injury in his/her current location. Equipment and material involved in or responsible for the accident shall not be disturbed unless it presents an additional danger to the injured person(s).

The closest Emergency Medical Facility is:

#### St. Francis Health Center 24 Willie Mays Plaza San Francisco, CA 94107-2134 (415) 972-2249

Immediately after the accident, Webcor/Obayashi Joint Venture will meet with the responsible subcontractor's Superintendent and/or Foremen, review the conditions, and direct the appropriate corrective action. The subcontractor's Safety Coordinator shall complete and submit a copy of all required reports to Webcor/Obayashi Joint Venture.

Within 24 hours of a major injury, Webcor/Obayashi Joint Venture shall conduct a Safety Meeting with attendance required of all jobsite personnel. Topics to include: cause of accident, nature of injury, immediate prognosis for full recovery from injury (if available), and preventive measures to be taken to avoid future similar accidents.

# ACCIDENT / INJURY MANAGEMENT

#### **Accident Reporting**

All on-site accidents must be reported to Webcor/Obayashi Joint Venture Project Management immediately. All accidents resulting in industrial injuries or illnesses occurring on the jobsite will be thoroughly investigated. The investigation will be conducted by the controlling employer's Project Management, supervisor and Safety Coordinator, under the direction of Webcor/Obayashi Joint Venture Project Management. This includes accidents, injuries and illnesses of workers whether the injury resulted in medical treatment; no claim was filed, or is a non-industrial injury. Completion of appropriate forms, as defined in the Incident Reporting Appendix must be completed immediately after occurrence.

#### **Accident Investigation**

The initial accident investigation is to be completed within 24 hours, with immediate notification of Webcor/Obayashi Joint Venture safety (refer to Incident Reporting Appendix). Identification and review process of root causes must be completed. Corrective actions, identification of persons responsible for corrective actions, and date of completion must be established. Follow up documentation verifying corrective action completion is required. Lessons learned from root cause analysis reviews will be shared with the project, regionally and globally.

Investigation reports of accidents or injuries requiring medical treatment must include medical treatment forms and completed first report or injury forms.

This project requires that an Incident Investigation form be completed for all on-the-job accidents. The form is contained with the Incident Reporting Appendix. This form must be completed as soon as possible (limit - within 1 working day) after occurrence of any injury that results in medical treatment or property damage. After completion, the form must be returned to Webcor/Obayashi Joint Venture Project Management/Safety for corrective action and processing.

Copies of all accident investigation documentation must be submitted to the Webcor/Obayashi Joint Venture Regional Safety Director. If required by law, injury notification to OSHA must be coordinated through the Webcor/Obayashi Joint Venture Regional Safety Director and the Corporate Safety Director.

#### **Accident Analysis**

Webcor/Obayashi Joint Venture provides a safe and healthful work environment for all workers through progressive, proactive injury prevention planning. Job pre-planning and identification of up-coming potentially hazardous activities is supported by regular review of trend analysis.

To identify root causes of accidents and at-risk behavior Webcor/Obayashi Joint Venture and subcontractor management will be required to, within 48 hours of the incident, conduct a "lesson learned" meeting. The meeting will analyze any injury accidents, environmental incident, or impact to existing facilities and operations. Accident trends will be identified and plans developed to prevent additional incidents. A complete Root Cause Analysis will be performed involving at least the Webcor/Obayashi Joint Venture and Subcontractor Project Teams. The mission of these meetings will be to identify problem areas, develop specific action plan(s) to address root causes and at-risk behaviors, and to immediately implement corrective actions. Webcor/Obayashi Joint Venture will periodically review implemented plans for effectiveness. Lessons learned from root cause analysis reviews will be shared with the project, regionally and globally.

# **RESPONSIBILITIES FOR SAFETY and LOSS CONTROL**

#### Overview

The objective of this project safety overview (PSO) is to establish that safety and health must be addressed throughout the entire project. The prevention of accidents and protection of property are company values and are integral to our success. All safety issues shall receive active support and participation by the entire project team.

The principles of safety and loss control are intended to prevent injuries on the jobsite and to reduce the potential for damage to property and equipment. No phase of construction is of greater importance than incident prevention. Accidents that result in personal injury or damage to property and equipment represent needless waste and loss.

Planning for safety starts with project design and continues through purchasing, fabrication and construction in all phases of the project. Practical steps will be taken to maintain an Injury Free Environment. All subcontractors must accept responsibility for preventing accidents and be responsible for thorough safety and loss control training and instruction for their workers.

The primary objective of the Webcor/Obayashi Joint Venture PSO is to coordinate the elimination or reduction of risk associated with the construction of the project. Associated missions are to promote safe work practices/behaviors, prevent accidents, prevent worker injuries, prevent damage to property, and promote maximum efficiency and effect savings by reducing unplanned business interruptions.

Active participation by the management of Webcor/Obayashi Joint Venture, subcontractors, tiered subcontractors and all workers will make the program effective and successful by coordinating the participants' efforts in performing the following tasks:

Providing a safe environment in which workers can perform high quality work.

Using job hazard analysis pre-task safety planning as a tool to reduce injury to persons and property. Conduct jobsite safety audits to locate and abate unsafe work practices/behaviors and unsafe conditions. Protecting the public and property potentially affected by Webcor/Obayashi Joint Venture sites. Educating and training workers through:

- New hire/site specific safety orientation
- Safety meetings

- Task specific safety training; i.e., hazardous communications (HAZCOM), construction safety practices, excavation and trenching safety, confined space entry, equipment operations, etc.
- Mandatory personal protective equipment (PPE) programs
- Immediate injury reporting and effective record keeping to maintain an up-to-date accident experience and trends analysis
- Use of accident investigation information to abate deficiencies and eliminate any additional losses

#### Webcor/Obayashi Joint Venture Management Team

Webcor/Obayashi Joint Venture Management Team is responsible for construction management services for the Transbay Transit Center and for:

- Encouraging, reinforcing and modeling Webcor/Obayashi Joint Venture culture, including Injury Free Environment initiatives
- Participating in the development and assessment of EH&S leading indicators
- Reviewing and approving project corrective action/recovery plans.
- Instituting accountability when action plans and culture are not maintained
- Has the authority to stop any operations that pose a potential threat

#### Webcor/Obayashi Joint Venture Project Manager (Richard Gangitano)

The Webcor/Obayashi Joint Venture Project Manager is responsible for construction management services for the Transbay Transit Center and for:

- Determining if contract documents and specifications support the project's safety missions and objectives
- Monitoring subcontractor selection process and adherence to established guidelines
- Periodically auditing subcontractor's safety plans for compliance with the Webcor/Obayashi Joint Venture 's EHSP
- Participating in pre-task planning and subcontractor pre-construction safety meetings
- Being aware of loss control and public protection requirements of the project
- Participating in fact finding, root cause analysis, and the implementation of corrective actions associated with injury/incident investigations
- Documenting weekly jobsite safety audits
- Facilitating monthly craft feedback luncheon
- Supporting Webcor/Obayashi Joint Venture EHS personnel and cooperating with all designated personnel in obtaining corrective actions necessary to comply with the Webcor/Obayashi Joint Venture EHSP
- Has the authority to stop any operations that pose a potential threat
- Promoting and supporting our Injury Free culture

#### Webcor/Obayashi Joint Venture Project Superintendents (Michael Poole)

It is the responsibility of Webcor/Obayashi Joint Venture Superintendents to oversee safety on jobsite. Their EHS responsibilities include:

- Overseeing the planning and execution of all work in compliance with the Webcor/Obayashi Joint Venture EHSP and contract specifications
- Being aware of loss control and public protection requirements identified in the safety specifications of the contract documents
- Completing daily jobsite safety audits and reviewing completed jobsite safety audits to ensure identified hazards are addressed in a timely manner
- Participating in pre-task planning, and subcontractor pre-bid, pre-construction and/or kick-off meetings
- Monitoring and participating in job hazard analysis and pre-task planning
- Requiring supervisors and workers to use personal protective equipment in accordance with the Webcor/Obayashi Joint Venture EHSP and local, state and federal safety regulations
- Participating in fact finding, root cause analysis and the implementation of corrective actions associated with injury/incident investigations
- Ensuring Injury Accident Investigation Packets are accurately completed and forwarded to designated individuals
- Participating in and encouraging weekly tool box/tailgate safety meetings, and evaluating their effectiveness
- Taking appropriate action to abate identified unsafe conditions and practices and document corrective actions.
- Supporting Webcor/Obayashi Joint Venture EHS, and cooperating with all designated project safety personnel in obtaining corrective actions necessary to comply with the Webcor/Obayashi Joint Venture EHSP
- Has the authority to stop any operations that pose a potential threat
- Promoting and supporting Injury Free culture

#### Webcor/Obayashi Joint Venture Project EHS Manager (Raymond Ramierez)

The Webcor/Obayashi Joint Venture Project EHS Manager has authority for safety and health on the project. The Webcor/Obayashi Joint Venture EHS Professional is considered to be the program administrator and has the authority delegated by Webcor/Obayashi Joint Venture Corporate EHS to implement and promote safety. Duties of Webcor/Obayashi Joint Venture Project EHS Manager include:

- Helping to familiarize Webcor/Obayashi Joint Venture and subcontractor project managers, superintendents and supervisors with the Webcor/Obayashi Joint Venture EHSP. These individuals must be familiar with safety and health hazards to which all workers may be exposed, as well as applicable laws, regulations and safety rules and policies.
- Supporting project management in achieving an injury, incident and impact free environment.
- Help assure that all workers are trained in accordance with applicable requirements

- Helping to ensure that observation, inspection, recognition, evaluation and abatement of hazards are conducted on a continuing basis
- Continually developing new methods for abating hazards
- Helping to ensure that hazards are abated in a timely and effective manner
- Reporting all injuries immediately to Webcor/Obayashi Joint Venture Project Management. Webcor/Obayashi Joint Venture EHS also has the responsibility for overseeing development, implementation and maintenance of the project's safety program by:
- Requiring subcontractors to incorporate the requirements of the Webcor/Obayashi Joint Venture's EHS Plan into their safety programs and safety orientation if theirs are less protective than those of. Webcor/Obayashi Joint Venture.
- Expediting corrective action(s) to abate any observed or potential safety exposure(s) to workers.
- Requiring Webcor/Obayashi Joint Venture Project Management and Safety Coordinators to continuously monitor Webcor/Obayashi Joint Venture and the subcontractor's safety performance and expedite abatement action(s).
- Overseeing the implementation of emergency response procedures, and helping to assure that Webcor/Obayashi Joint Venture and subcontractor's personnel are trained to handle onsite emergencies.
- Setting project missions and milestones and reporting indicators for all project personnel.

Webcor/Obayashi Joint Venture EHS is further responsible for monitoring the subcontractor's compliance with the Webcor/Obayashi Joint Venture EHSP. Webcor/Obayashi Joint Venture EHS must help ensure that the guidelines, rules and procedures in this document are followed for site work, being familiar with local emergency services and conducting or taking the necessary steps to help ensure that tool box/tailgate safety meetings are conducted before work startup. Additional meetings may be required for specific job tasks or site activities. Webcor/Obayashi Joint Venture EHS also must help monitor the maintenance and inspection of PPE, onsite hazards, the physical condition of site personnel, and perform daily safety audits of work site activities.

Additional duties include maintaining safety files, which will include training and applicable medical certifications, environmental testing and special associated training, tool box/tailgate meeting notes and rosters, safety observation/audit reports, investigation reports including near-misses, injury summaries, required safety permits, security issues, or other safety and health documentation, as applicable. Webcor/Obayashi Joint Venture EHS has the authority to stop any operations that pose a potential threat to site personnel.

Furthermore, Webcor/Obayashi Joint Venture EHS will:

Report unsafe acts and conditions to the worker's supervisor and/or safety coordinator for prompt corrective action and stop all life threatening situations immediately upon knowledge. Webcor/Obayashi Joint Venture requires prompt correction of safety infractions.

Help monitor the subcontractor selection process and adherence to established environmental safety and health guidelines

If the subcontractor does not make immediate corrections after initial notification, Webcor/Obayashi Joint Venture EHS will:

- Notify the subcontractor's Project Management in writing to make prompt corrective action to help eliminate construction safety concerns.
- Forward copies of the written notice to Webcor/Obayashi Joint Venture Project Management
- Develop the direction to help resolve outstanding construction safety issues and maintain documentation of corrective actions

Help ensure that the proper steps are taken in the case of emergencies when a major event resulting in a fatality, multiple injuries, or property loss occurs. Webcor/Obayashi Joint Venture EHS is responsible for requiring that we preserve the accident scene in an "as is" condition, including any construction equipment involved, to allow for a proper investigation. Webcor/Obayashi Joint Venture EHS must order, if necessary, the area or piece of equipment to be stabilized to preclude further injuries or loss. Notify Webcor/Obayashi Joint Venture Project Manager should we be subjected to an OSHA (federal or state) inspection. Should citations, warnings or safety violations be issued, we copies to Webcor/Obayashi Joint Venture Corporate EHS manager within 48 hours.

**NOTE:** Webcor/Obayashi Joint Venture EHS manager may assign all or some of these tasks to other responsible persons as appropriate.

#### Webcor/Obayashi Joint Venture Project Engineer (David Hungerford)

The Webcor/Obayashi Joint Venture Project Engineer assists the Webcor/Obayashi Joint Venture Project Manager with his/her responsibilities for construction management services for the project. This person will:

- Complete weekly jobsite safety audits
- Participate in pre-task planning, and subcontractor pre-bid, pre-construction, and/or kick-off meetings
- Assist with jobsite safety startup, safety orientations, and craft feedback luncheons
- Participate in fact finding, root cause analysis, and implementing corrective actions to prevent further occurrences on all injury/incident investigations
- Attend and/or participate in jobsite safety meetings

#### Webcor/Obayashi Joint Venture Supervisor/ Foremen (Michael Poole)

The Webcor/Obayashi Joint Venture Supervisor/Foreman will interface daily with his/her workers. Therefore, the Webcor/Obayashi Joint Venture Supervisor/Foreman will have a major influence on the effectiveness of the safety program and accident experience. Each Supervisor/Foreman's construction safety responsibilities will include:

Training and instructing workers in safe work practices for all tasks to which they are assigned
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- Helping ensure crew participation in pre-task planning
- Helping ensuring availability of and enforce the proper use of jobsite tools and PPE
- Monitoring the work area for unsafe acts and conditions and instituting immediate corrective action
- Setting a good example for workers
- Pre-planning activities to help ensure workers are properly trained in applicable safety requirements
- Conducting daily pre-job meetings to include review of day's activities and associated hazards
- Ensuring all injury reports are properly completed and submitted to Webcor/Obayashi Joint Venture EHS or designee
- Participating in fact finding, root cause analysis, and the implementation of corrective actions associated with injury/incident investigations, and providing information regarding these actions to Webcor/Obayashi Joint Venture Project Management/Regional Leadership
- Reporting and assisting with the resolution of near miss incidents
- Helping provide first aid care for injured workers
- Promoting and supporting Injury Free culture
- Leading tool box/tailgate safety meetings with the crew to:
- Encourage participation
- Discuss observed accident trends and causes
- Plan construction safety into crew's work activities
- Take action to correct safety-related concerns

#### Webcor/Obayashi Joint Venture Project Safety Coordinator (TBD)

The Webcor/Obayashi Joint Venture Safety Coordinator's primary responsibility is to ensure immediate corrective action of observed unsafe acts and unsafe conditions. This person will:

- Report unsafe acts and conditions to the worker's supervisor and/or safety coordinator for prompt corrective action and stop all life threatening situations immediately upon knowledge
- Orientate all new Webcor/Obayashi Joint Venture workers according to the Project Site-Specific Safety Orientation
- Make twice daily job site safety audits
- Facilitate daily safety coordination meetings with subcontractor safety coordinators (as applicable)
- Provide appropriate materials and conduct weekly tool box/tailgate meetings or safety meetings, as well as:
- Review meeting reports for attendance
- Help implement required training programs for workers
- Report, in writing to the project EHS manager the names of individuals and their supervisors who
  are continually observed to violate construction safety requirements, with copies to
  Webcor/Obayashi Joint Venture Project Management. Webcor/Obayashi Joint Venture Project
  Management may require that we remove these individuals and/or their supervisors from the job

site. Also, Webcor/Obayashi Joint Venture Project Management and/or Webcor/Obayashi Joint Venture EHS is/are authorized to order a work stoppage until present unsafe conditions are abated.

- Report all injuries immediately to Webcor/Obayashi Joint Venture EHS Manager.
- Participate in fact finding, root cause analysis, and resolution on all injury/incident investigations
- Participate in completion and forwarding of all Injury Accident Investigation Packets (injury, liability, property damage, and the like) to Webcor/Obayashi Joint Venture Claims Manager.
- Promote and support Injury Free culture.
- Keep on file the following:
- Updated chemical management plan, including chemical inventory lists and Material Safety Data Sheets (MSDSs) for all products used or stored onsite

#### **Subcontractor Responsibilities**

The subcontractor has overall responsibility for accident prevention and implementation of this Webcor/Obayashi Joint Venture EHSP for anyone under their control, including their respective employees, vendors and suppliers. This responsibility is shared with the tiered subcontractors. . Where subcontractor is not using Safety Professional(s)/Safety Coordinator(s) the subcontractor will assign safety responsibilities to a member of subcontractor Project Management. This assignment is subject to approval by Webcor/Obayashi Joint Venture Management and Webcor/Obayashi Joint Venture EHS, or designee. The DSP shall be knowledgeable in occupational health and safety requirements and shall have attended the OSHA 30 hour training program as a minimum requirement and possess a current CPR /First Aid and AED certification.

Subcontractors will submit a copy of their company's safety program prior to beginning work. All subcontractor workers must be orientated to their company's safety program as well as to applicable sections of this Webcor/Obayashi Joint Venture EHSP.

The subcontractor may be responsible for providing their Safety Professional(s)/Safety Coordinator(s) or designee with a reliable communication method or device in order to contact Webcor/Obayashi Joint Venture Project Management and Webcor/Obayashi Joint Venture EHS during emergency response and/or other safety related communications.

Although many existing hazards may be corrected through informal communications between the subcontractor's Safety Professional/Safety coordinator or designee and members of Webcor/Obayashi Joint Venture Project Management, all corrective actions must be documented, with copies forwarded to Webcor/Obayashi Joint Venture Project EHS Manager.

#### Subcontractor's Project Manager

The subcontractor's Project Manager is responsible for:

- Planning and monitoring all work performed for compliance with the objectives of the Webcor/Obayashi Joint Venture EHSP, subcontractor's safety program, and federal, state and local safety and health regulations
- Authorizing immediate correction of any existing construction safety-related concerns

- Fully supporting the designated Safety Coordinator and cooperating with all designated project safety personnel in obtaining corrective actions necessary to comply with the Webcor/Obayashi Joint Venture EHSP
- Completing weekly safety audits
- Participating in pre-task planning and subcontractor kick-off meetings
- Participating in fact finding, root cause analysis, and resolution on all injury/incident investigations
- When requested, attending special construction safety meetings

#### Subcontractor Superintendent/Supervision/Foremen

All supervisory personnel shall have as a minimum the OSHA 30 Hour Construction Safety training within the prior four years and possess a current CPR /First Aid and AED certification. In addition supervisory personnel shall have at a minimum 5 years' experience as a superintendent in a similar type of project. Responsibilities of Subcontractor Superintendent/Supervisor/Foremen are the same as Webcor/Obayashi Joint Venture Superintendent/Supervisor/Foremen, plus:

• Attending weekly contractors' safety meetings

#### Subcontractor's Safety Professional

Every subcontractor shall employ 6 full time designated safety persons (DSP) to coordinate project safety requirements for each active working zone up to 20 employees including tiered subcontractors. For each additional 20 employees another full time DSP is required for the active zone. This formula would add a full time DSP for each additional staff increase of 20 employees including tiered subcontractors. The DSP shall have no other duties than full time safety. The designated safety person (DSP) are subject to Webcor/Obayashi Joint Venture's approval and may be removed at any time with or without cause and replacement personnel provided at the subcontractor's/employer's expense. The DSP shall be knowledgeable in occupational health and safety requirements and half shall have at least a CHST and five years' experience as a dedicated safety manager in a similar type of project. The DSP shall possess and maintain an OSHA 30 Hour Construction Safety training program as a minimum issued no more than four years prior. The DSP shall possess a current CPR /First Aid and AED certification. The DSP shall attend weekly safety meetings conducted by Webcor/Obayashi Joint Venture's site safety manager to discuss safety related issues on the project. This person will:

- Report all incidents and injuries immediately to Webcor/Obayashi Joint Venture Project Management and Webcor/Obayashi Joint Venture EHS
- Perform continuous safety audits of all their respective trade contractors and their subcontractors' work areas throughout the entire workday and take immediate action to eliminate all unsafe acts and/or conditions. These observations, along with corrective actions taken will be reported to the appropriate member of Webcor/Obayashi Joint Venture Project Management, the subcontractor's own management, and Webcor/Obayashi Joint Venture EHS, using the SafeSiteOne Safety Inspection Report. These forms will be

completed daily and submitted to Webcor/Obayashi Joint Venture Project Management/EHS.

- Serve as technical advisors to their project management team on safety and health planning, training and problem resolution issues.
- Ensure that prior to the commencement of any work activity; every Supervisor/Foreman reviews each task assignment with every affected employee to ensure a comprehensive understanding of the safety requirements and precautions to be followed while performing this work. The Safety Professional(s) and Supervisor/Foremen should further ensure that all of the necessary guards are in place, safety equipment is provided, and other required steps are taken prior to starting the work.
- Each Safety Professional has the right and the authority to direct stoppage of any work of any contractor whenever imminent danger to life and health exists.
- Each Safety Professional has the right and authority to stop any and all hazardous work activities being performed by his/her company or their subcontractors until necessary corrective actions are taken.
- Ensure that appropriate personal protective equipment is provided and its use enforced
- Enforce their company's safety program and disciplinary procedures
- Accompany Webcor/Obayashi Joint Venture's supervisory personnel as directed and perform joint inspections of work areas and activities
- Orient all new subcontractor personnel to the site's safety program prior to work commencement
- Complete and forward all claim forms (injury, liability, property damage, and the like).
- Attend and participate in daily Safety Coordination Meetings
- Participate in accident investigations and recommend proper courses of corrective action. When serious accidents occur, this task will be performed in conjunction with Webcor/Obayashi Joint Venture EHS and Webcor/Obayashi Joint Venture and the subcontractor Project Management or their representatives.
- Provide appropriate materials for those conducting weekly tool box/tailgate meetings or safety meetings, as well as:
  - Review safety meeting reports for attendance
  - Attend and periodically conduct tool box/tailgate meetings to evaluate their effectiveness
  - Implement required safety training programs for subcontractor employees and supervisors

No full time Safety Professional shall be assigned any duties other than assuring the safety and health of the personnel employed by their company or their subcontractors.

#### Subcontractor's Safety Coordinator

The subcontractor's Safety Coordinator's responsibilities include assuring immediate corrective action to eliminate observed unsafe acts and unsafe conditions. This person will:

- Report all incidents and injuries immediately to Webcor/Obayashi Joint Venture Project Management/EHS.
- Orient all new subcontractor personnel to the site's safety program prior to work commencement
- Make daily job site safety observations/audits (to be documented daily) and provide copies of documentation to Webcor/Obayashi Joint Venture Project Management and Webcor/Obayashi Joint Venture EHS
- Complete and forward all claim forms (injury, liability, property damage, and the like).
- Attend and participate in daily safety coordination meetings
- Participate in accident investigations and recommend proper courses of corrective action. When serious accidents occur, this task will be performed in conjunction with Webcor/Obayashi Joint Venture Project Management/EHS and subcontractor Project Management or their representatives.
- Provide appropriate materials for those conducting weekly tool box/tailgate meetings or safety meetings, as well as:
  - Periodically conduct tool box/tailgate meetings
  - Implement required training programs for workers and supervisors
  - Provide necessary information for the obtaining of motor vehicle records for all crane operators on site

#### **Everyone's Responsibilities**

- Report injuries *immediately* to supervision
- Work according to good safety practices as posted, instructed and discussed
- Comply with Webcor/Obayashi Joint Venture EHSP and subcontractor's safety program
- Use all required safety devices
- Report any unsafe situation or act to supervisor and/or designated Safety Coordinator/designee immediately (unsafe conditions and acts must be corrected when noticed to effectively prevent accidents)
- Maintain a clean and safe work area
- Come to work alert and free of any impairment that may affect safety
- Follow the site's Safe Work Practices
- Promote and support the Injury Free Environment: Agree to be held accountable for your safety, and the safety of others
- In addition, EVERYONE is held accountable for their designated assignments of responsibilities as denoted in their respective definitions; i.e., Project Manager, Superintendent, etc.

• Refrain from performing any work which may feel unsafe or for which proper equipment and/or training have not been provided

# SAFETY DISIPLINARY POLICY

Under Webcor/Obayashi Joint Venture, all employees are required to follow company safety policies and operating procedures. When needed, employees will be provided with additional training and information, or retraining to maintain their knowledge.

Although Webcor/Obayashi Joint Venture reserves the right to discharge "at will," we believe that employees found performing work in an unsafe manner that would endanger the employee or another employee shall be subject to discipline or termination by management. Webcor/Obayashi Joint Venture strictly maintains a zero tolerance policy towards violations involving, but not restricted to: fall protection, lock-out/tag-out, and confined space.

The Webcor/Obayashi Joint Venture Project Management/Site Safety Manager will determine the course of action best suited to the circumstances. The steps to be taken at a minimum shall include the following:

- <u>Verbal Warning</u> As the first step in correcting unacceptable behavior, the Supervisor shall review the pertinent facts with the employee. The Supervisor will consider the severity of the problem, and the employee's past performance. A verbal warning will be issued to the employee, if necessary; the employee will be placed on probation.
- <u>Written Warning</u> If the unacceptable performance continues, the next step will be a written warning. The written warning will clearly state the safety policy that was violated. Probation will be a part of the written warning. It may also include time off without pay. At the completion of the probationary period, the supervisor will meet with the employee to determine if the employee has achieved the required level of performance.
- <u>*Termination*</u> The employee may be terminated if he does not improve his performance while on probation, or has violated another company safety policy within twelve months.

# LADDER SAFETY RULES

#### General:

- Inspect before use for physical defects.
- Ladders are not to be painted except for numbering purposes.
- Do not use ladders for skids, braces, workbenches, or any purpose other than climbing.
- When you are ascending or descending a ladder, do not carry objects that will prevent you from grasping the ladder with both hands.
- Always face the ladder when ascending and descending.
- If you must place a ladder over a doorway, barricade the door to prevent its use and post a warning sign.
- Only one person is allowed on a ladder at a time.
- Do not jump from a ladder when descending.
- All joints between steps, rungs, and side rails must be tight.
- Safety feet must be in good working order and in place.
- Rungs must be free of grease and/or oil.

#### Stepladders

- Do not place tools or materials on the steps or platform of a stepladder
- Do not use the top two steps of a stepladder as a step or stand.
- Always level all four feet and lock spreaders in place.
- Do not use a stepladder as a straight ladder.

Straight type or extension ladders

- All straight or extension ladders must extend at least three feet beyond the supporting object when used as an access to an elevated work area.
- After raising the extension portion of a two or more stage ladder to the desired height, check to ensure that the safety dogs or latches are engaged.
- All extension or straight ladders must be secured or tied off at the top.





• All ladders must be equipped with safety (non-skid) feet.



• Portable ladders must be used at such a pitch that the horizontal distance from the top support to the foot of the ladder is about one-quarter of the working length of the ladder.



# GENERAL MATERIALS HANDLING SAFETY

General material storage safety:

- Make sure that all materials stored in tiers are stacked, racked, blocked, interlocked, or otherwise secured to prevent sliding, falling, or collapse.
- Post conspicuously the maximum safe load limits of floors within buildings and structures, in pounds per square foot, in all storage areas, except for floor or slab on grade. Do not exceed the maximum safe loads.
- Keep aisles and passageways clear to provide for the free and safe movement of material handling equipment or employees. Keep these areas in good repair.
- Do not store materials on scaffolds or runways in excess of supplies needed for immediate operations.
- Use ramps, blocking, or grading when a difference in road or working levels exists to ensure the safe movement of vehicles between the two levels.
- Do not place materials stored inside buildings under construction within 6 feet of any hoist way or inside floor openings, or within 10 feet of an exterior wall which does not extend above the top of the material stored.
- Segregate non-compatible materials in storage.
- Stack bagged materials by stepping back the layers and cross-keying the bags at least every ten bags high.
- Carefully handle cement and lime delivered in paper bags to prevent the bags from bursting.
- Do not pile cement and lime bags more than ten bags high except when stored in bins or enclosures built for the purpose of storage.
- When bags are removed from the pile, keep the length of the pile at an even height and maintain the necessary step backs every five bags.
- When handling cement and lime bags, wear eye protection preventing any contact with the substance (such as goggles or other sealed eye protection) and wear long sleeve shirts with close fitting collar and cuffs.
- Do not wear clothing that has become hard and stiff with cement.
- Make sure to report any susceptibility of skin to cement and lime burns.
- Make sure that a hand cream or Vaseline and eyewash is provided and kept ready for use to prevent burns.
- Store lime in a dry place to prevent a premature slacking action that may cause fire.
- Do not stack bricks more than 7 feet high. When a loose brick stack reaches a height of 4 feet, taper it back 2 inches for every foot of height above the 4-foot level.
- Never stack bricks, for storage purposes, on scaffolds or runways.
- Always stack blocks; do not throw in a loose pile.
- When stacking masonry blocks higher than 6 feet, taper back the stack one-half block per tier above the 6-foot level.
- When stacking inside a building, distribute the piles to prevent overloading the floor.
- Do not drop or throw blocks from an elevation or deliver blocks through chutes.
- Do not stack lumber more than 20 feet high; if handling lumber manually, do not stack more than 16 feet high.
- Remove all nails from used lumber before stacking.
- Stack lumber on level and solidly supported sills, and such that the stack is stable and self-supporting.

- Stack stored lumber on timber sills to keep it off the ground. Sills must be placed level on solid supports.
- Place cross strips in the stacks when they are stacked more than 4 feet high.
- If not racked, stack and block structural steel, poles, pipe, bar stock, and other cylindrical materials as to prevent spreading or tilting.
- Wear heavy gloves when handling reinforcing steel.
- When bending reinforcing steel on the job, use a strong bench set up on even dry ground or a floor to work on.
- Carefully pile structural steel to prevent danger of members rolling off or the pile toppling over.
- Keep structural steel in low piles, giving consideration to the sequence of use of its members.
- Stack corrugated and flat iron in flat piles, with the piles not more than 4 feet high; place spacing strips between each bundle.
- Frequently inspect stock piles of sand, gravel, and crushed stone to prevent their becoming unsafe by continued adding to or withdrawing from the stock.
- Do not remove frozen material in a manner that would produce an overhang.

General Rigging Equipment Safety:

- Inspect rigging equipment for material handling prior to use on each shift and as necessary during its use to ensure that it is safe. Remove defective rigging equipment from service.
- Never load rigging equipment in excess of its recommended safe working load.
- Remove rigging equipment when not in use from the immediate work area so as not to present a hazard to employees.
- Mark special rigging accessories (i.e., spreader bars, grabs, hooks, clamps, etc.) or other lifting accessories with the rated capacity. Proof tests all components to 125% of the rated load prior to the first use. Maintain permanent records on the job site for all special rigging accessories.

Disposal of waste materials:

- Whenever materials are dropped more than 20 feet to any point lying outside the exterior walls of the building, use an enclosed chute of wood or equivalent material.
- When debris is dropped without the use of chutes, make sure that the area onto which the material is dropped is completely enclosed with barricades at least 42 inches high and 20 feet back from the projected edge of the opening above. Post at each level warning signs of the hazard of falling materials. Do not remove debris in this lower area until debris handling ceases above.
- Remove all scrap lumber, waste material, and rubbish from the immediate work area as the work progresses.
- Make sure to comply with local fire regulations if disposing of waste material or debris by burning.
- Keep all solvent waste, oily rags, and flammable liquids in fire-resistant covered containers until removed from the work site.

# FIRE PREVENTION PROGRAM

#### Purpose:

To reduce to a minimum the possibility of fire damage and associated losses incurred during the construction of the Project.

The following program, by no means complete, is the guide to be used on the Project to aid in preventing the spreading of materials loosed by fires and gases associated with combustion, etc.

#### **Fire Protection**

- All temporary electric service, equipment, and wiring must be in accordance with Cal OSHA and NFPA 70, National Electric Code (NFPA 241, Section 4-1.1).
- Storage of any material within 10 feet of fire hydrants is strictly prohibited.
- Work areas shall be policed on a regular basis to prevent accumulation of material. All combustible waste material, dust, and debris shall be removed from the building and its immediate vicinity at the end of each work shift, or more frequently as necessary, for Safe operations (NFPA 241, Section 3-4.1).
- No motors or machinery shall be left running during nonworking hours except as specifically directed by Webcor/Obayashi Joint Venture.
- All heating equipment shall have necessary Safety devices and shall be wired, piped, and operated according to all applicable codes, rules and regulations, and manufacturers' instructions.
- All tarps and blankets shall be of fire-retardant material.
- All fuel and solvent containers shall be in approved containers and placed on drip pans. Storage of these materials shall be in accordance with product Material Safety Data Sheets, statutory Hazardous Material requirements, and Fire Department requirements.
- No open or burning fires shall be permitted onsite. Anyone doing so will be subject to immediate dismissal.
- No solid fuel shall be permitted on the site.
- Fire extinguishers shall be placed and maintained on the job in conspicuous and identified locations per Cal/OSHA Title 8 Construction Safety Orders, Article 36, Section 1922, (a), (1). These fire extinguishers shall not be moved or discharged, except for fighting a fire. Anyone discharging an extinguisher as a prank will be subject to immediate dismissal.
- All gas bottles, such as propane, oxygen, and acetylene, shall be stored and secured in a vertical position in areas designated by Webcor/Obayashi Joint Venture. All stored bottles shall be capped. Oxygen and acetylene will not be stored within 20 feet of each other or must be separated by a one-half-hour-rated fire barrier. At no time during construction shall propane or LPG be stored inside of a structure or building.
- All oxygen and acetylene in use shall be in proper carts with required separations and with an attached 10 BC, minimum, fire extinguisher.
- During welding or cutting operations, a fire watch with fire extinguisher will be required and shall be the responsibility of the subcontractor or its sub-subcontractor performing the work. The need of a hot work permit may be needed, depending on location and circumstances for such. Permits will be obtained from the Project Safety Manager.

#### Fire Fighting

- Appropriate action is the key to the prevention of loss of life and property damage. This action in the first minute is worth gallons of water ten minutes later.
- If a fire occurs, notify the local fire department and Webcor/Obayashi Joint Venture immediately.
- Extinguish fire with a noncombustible, such as sand, or an available fire extinguisher.
- Remove or shut off fuel supply, such as removing debris or stored material, or shutting off fuel supply.

#### Welding and Cutting Permit Program for "Hot Work"

- The Site Safety Manager will act as the Fire Safety Manager.
- Each subcontractor shall notify Webcor/Obayashi Joint Venture of proposed "Hot Work" through a "Welding/Cutting Permit" application to the Fire Safety Manager.
- The Fire Safety Manager shall review the Permit form with the subcontractor to assure that all areas of concern are accounted for in fire protection.
- The Fire Safety Manager shall keep a log of all Permits.
- Permissible Areas:
  - New construction: When all fire prevention measures are taken, permits shall be authorized for the work.
    - New construction work shall require the presence of a dedicated fire extinguisher (20 lb, ABC), provided by the subcontractor performing the work, and any other preventive measures as may be necessary for protection of life and property, such as fire blankets, water supply, etc.
    - The subcontractor and the Fire Safety Manager shall ensure that the surrounding area(s) are free of combustible material per NFPA 51B.
    - When the work is of the nature that "hot" material may fall to areas below, the subcontractor and the Fire Safety Manager shall ensure that those areas are free of combustible material or material that may otherwise be damaged. Work in place must be protected by the subcontractor performing the work.
    - When "Hot Work" is performed in Permit Required Confined Spaces, the applicable Standards will be followed for Permit Required Confined Space work.
    - "Hot Work" shall not be performed near fuel storage areas or other areas where combustible vapors may accumulate.
  - Occupied Buildings: "Hot Work" shall not be performed in occupied buildings without notification of the local Fire Department responding agency (local Engine Company).
    - The fire suppression system for the building must be in operation.
    - The appropriate Building or Department Managers must be notified and the work coordinated with their operations.
    - Preparation for the work and clearing of combustible materials shall be in accordance with NFPA 51B. Combustible material shall be cleared from the work area by a distance of 35 feet.

#### Office, Tool Sheds, Etc.

- Shall be constructed of fire-resistive materials and heated with approved fire-safe heating devices in accordance with manufacturers' instructions.
- Shall be separated from materials which present extraordinary fire hazards in accordance with NFPA 241, 241, Table 2-1.1).

- Shall be equipped with a minimum of one 20-lb. ABC fire extinguisher each, in accordance with Cal/OSHA Title 8 Construction Safety Orders, Article 36, Section 1922, (a), (1).
- Shall have a 40-gallon waste container adjacent to it.
- Shall not be used to store oily rags, oily clothes, or fuels.

The principles outlined above should provide a reasonable change for a fire-free job. Strict adherence to the intent of this program is to be considered a contractual requirement. (See attached appendix for Hot Work Permit.)

## APPENDIXES

### ASBESTOS ABATEMENT PROGRAM

#### THE CHARACTERISTICS OF ASBESTOS

There are no visible signs that asbestos is particularly hazardous. Also, no immediate side effects are experienced by workers after exposure. But this common mineral can cause lung disease, cancer and even death if not handled safely. This is why the Standard requires that workers who don't really work directly with asbestos, but who may have incidental exposure, must receive at least "Asbestos Awareness" training.

To help address OSHA's concerns, and provide the awareness training needed by employees under the regulation, this program is designed to present fundamental information.

Employees should understand how long-term exposure to asbestos can harm the human body. Employees should recognize the areas where asbestos may be located in their project.

Employees should know which asbestos and asbestos-containing materials should be repaired and/or removed.

Employees should understand how to avoid potential hazardous maintenance and custodial activities that could lead to asbestos exposure.

Employees should know what personal protective equipment to use to protect against asbestos exposure.

Employees should understand which safe work practices should be used when helping with a minor asbestos clean-up.

Employees should understand why, when there is the potential for exposure to asbestos, air monitoring and medical surveillance can be important elements in providing a safer workplace.

Employees should be familiar with certain requirements in the OSHA Asbestos Standard...especially those concerning workplace controls and personal protective equipment.

#### **Outline of Major Program Points**

The following outline summarizes the major points of information employees should be familiar with.

- Asbestos is a mineral which has many positive qualities. It is:
  - Fireproof.
  - Heat resistant
  - Lightweight.
  - Resistant to most chemicals.
  - Sound-absorbing.
  - And it does not conduct electricity.

- Products that contain Asbestos can be helpful, but they can also be very harmful.
- Asbestos has hidden dangers that you need to know about.
- While most rocks break down into tiny particles, like grains of sand... Asbestos breaks down into small fibers, like strands of rope.
  - These fibers are invisible to the human eye.
  - You need a powerful microscope to see them.
  - These fibers have the strength of steel.
- The biggest problem when dealing with Asbestos fibers is that you cannot:
  - See them.
  - Taste them.
  - Smell them.
- If Asbestos fibers enter your body, they can cause severe damage.
- Asbestos has been used throughout the building and construction industry. It was:
  - Mixed with plaster and wallboard for strength and support.
  - Sprayed onto wall, ceilings, and steel girders for fireproofing.
  - Wrapped around pipes, boilers and heating ducts for insulation.
  - Even in floor and ceiling tiles.
- Several types of workers need to know about the hazards of working with or near Asbestos:
  - Custodial.
  - Engineering.
  - Maintenance.
- Asbestos hazards are so serious that OSHA has issued a Standard requiring that employees be:
  - Trained
  - Monitored.
  - Protected.
- As part of the training in this program, you will learn:
  - The health risks and effects of long-term Asbestos exposure.
  - How to recognize and deal with possible Asbestos hazards.
  - The content of your employer's Asbestos Management Plan.
- Asbestos fibers can float in the air for long periods of time, and can be easily inhaled.
  - They can cause severe damage to the lungs.
  - Yet in most instances there are not any immediate side-effects.
- This exposure to Asbestos fibers can lead to a disease known as "Asbestosis."
  - It can cause shortness of breath.
  - It may cause enlargement of the heart.
  - In extreme cases, it can even cause death.
- Long-term exposure to Asbestos fibers can also lead to cancer.
- People who smoke are especially vulnerable to Asbestos.
  - Cigarette smoke breaks down the lungs' defensive system, and leaves them vulnerable to Asbestos fibers.
  - Smokers are over 50 times more likely to become sick after long-term exposure to Asbestos.
  - Some of the ways to reduce your exposure to Asbestos including knowing:
    - Where it is located in your work areas.

- How to recognize potential problems.
- What to do if you find damaged Asbestos materials.
- If Asbestos-Containing materials are located in your workplace, your facility will have an Asbestos Management Plan.
  - The plan will contain a list of Asbestos materials.
  - There should also be a sign o a label at each location to warn you about Asbestos.
  - Notify your supervisor if there is not a sign where Asbestos may be present.
- Asbestos materials that you may encounter generally fit into two categories:
  - Friable.
  - Non-Friable.
- "Friable" Asbestos material can be easily damaged or broken:
  - This can release dangerous fibers into the air.
- "Non-Friable" material is not damaged as easily, but can also release asbestos fibers.
  - The three most common materials that contain Asbestos are:
    - Thermal system insulation.
    - Floor tiles.
    - Sprayed-on materials.
- Thermal system insulation is the most common type of friable Asbestos material, and can be found on:
  - Boilers.
  - Utility pipes.
  - Ductwork.
  - Heating systems.
- Keep a look-out for possible problems with this Asbestos material.
  - Even a small tear in the insulation is a potential hazard
- If you encounter damaged insulation, minimize the chance of exposure by acting immediately.
  - Secure the area, even if you are not sure that the material contains Asbestos.
  - Post a warning sign.
  - Notify your supervisor, your facility's environmental manager or an outside company (if appropriate).
- If you cannot fix the situation immediately, you may be asked to temporarily patch the damaged area.
  - Before starting work, put on appropriate personal protective equipment.
  - This may include gloves, a respirator and disposable overalls.
  - Wrap the damaged material with strong plastic.
  - Secure it with duct tape.
- The professionals will find a more permanent solution.
  - When they arrive, keep clear and let them do their work.
- Never handle or remove any Asbestos material unless authorized and properly equipped.
  - If Asbestos material needs to be removed, first talk to your supervisor to find out who in your facility is qualified.
- Floor tiles, as well as the glue used to stick the tiles to the ground, can also contain Asbestos.
  - Although floor tiles are non-friable, if they are damaged they can still release fibers.
  - Look for cuts, grooves or cracks in the material.
  - If you notice damage, seal off the area and notify your supervisor.

- Do not grind, cut or break apart floor tiles, since this could release fibers.
- If you need to strip a floor's finish, use the "Wet Method."
  - Dampen the floor so fibers are less likely to become airborne.
  - Use a Low Abrasion Pad, at speeds of less than 300 rpm, for safe cleaning.
- Ceiling tiles may also contain Asbestos.
  - Be careful when changing light bulbs or replacing tiles.
  - Look for broken corners or other damaged areas.
  - Both are signs that the tiles may be releasing fibers.
- Asbestos may also be found sprayed onto ceilings and walls.
  - They are friable materials.
  - They must be handled with extreme caution.
- Sprayed on materials can also peel away from a surface, and the dust and debris could contain Asbestos.
  - Do not sweep or shovel material while "dry."
  - This stirs up fibers into the air where they can be inhaled.
  - Report the problem to your supervisor, who will arrange for clean-up and disposal.
- Depending on the job, you may be asked to assist in the repair or removal of Asbestos at your facility.
  - Make sure that you use proper personal protective equipment.
  - Although Asbestos is not a skin contact hazard, by wearing disposable overalls your decontamination will be much easier.
- You will also need to wear a respirator fitted with special filters, to help prevent you from inhaling fibers.
  - The respirator must be the right size and shape for your face.
  - "Fit test" the respirator to prevent gaps between your face and the mask, so Asbestos fibers cannot "leak" through.
  - You'll be trained to clean and maintain your respirator, as well as how and when to change the filters.
- When cleaning up any Asbestos-Containing materials, never use an ordinary vacuum.
  - Even a shop-grade vacuum will send fibers into the air.
  - Vacuums used for Asbestos clean-up must be fitted with special HEPA filters.
  - These "High Efficiency Particulate" fibers prevent the release of Asbestos fibers into the air.
- Remember to use the "wet method" during clean-up activities.
  - Make sure the Asbestos is wet before, during and after handling, even if a HEPA vacuum is used.
  - After any clean-up, "wet wipe" the area with a damp cloth.
  - Be sure to dispose of the cloth properly.
- Asbestos materials must be properly bagged and labeled.
  - Use only official "Asbestos Disposal Bags" for this purpose.
  - When labeling a bag, use a "Generator Label" which lists the name and address of your facility.
- If an Asbestos Disposal Bag becomes torn, seal it immediately with tape.
  - Place the damaged bag inside a new bag and reseal it.
  - Place a Generator label on the new outer bag.
  - Remember, Asbestos is a regulated waste (it must be hauled to a licensed landfill).

- When helping with an Asbestos cleanup, you may be asked to wear an Air Sampling Device.
  - It measures the airborne concentration of Asbestos fibers in your work area.
  - An air pump is strapped to your waist, and a sampling cassette is taped to the front of your shoulder.
  - After you turn in the cassette, the air sample is analyzed for Asbestos content.
  - After any work with Asbestos materials, you must decontaminate yourself and your equipment.
    - This prevents the spread of Asbestos dust and debris.
    - Always use an official decontamination area.
    - It should be equipped with a HEPA vacuum, as well as a plastic drop cloth (to contain any loose fibers).
- Never eat, drink or smoke in these decontamination areas, or any other area where Asbestos is present.
   This increases your chance of inhaling fibers.
- When decontaminating your clothing, never brush off dust or debris.
  - This sends Asbestos fibers into the air.
  - Use a HEPA vacuum to remove these materials from your clothing before taking it off.
  - Also vacuum your equipment and Asbestos Disposal Bags.
- Remember that your overalls will be contaminated, and must be disposed of as a regulated waste.
  - Seal them in as Asbestos Disposal Bag.
- Scrub your hands and face with soap and water before leaving work.
  - If possible, shower before leaving your facility as well.
  - If not, shower immediately when you get home.
  - This prevents exposure to your family or friends.
- To provide an additional safeguard, you may be asked to participate in a Medical Surveillance Program.
  - This makes certain that you are not exposed to dangerous amounts of Asbestos.
  - It will also verify that you can safely wear a respirator.
- To provide an additional safeguard, you may be asked to participate in a Medical Surveillance Program.
  - This makes certain that you are not exposed to dangerous amounts of Asbestos.
  - It will also verify that you can safely wear a respirator.
- The Medical Surveillance Program requires regular visits to a doctor.
  - You may be asked to take a "breathing capacity" test, or have X-rays taken of your lungs.
  - This is provided free of charge.
  - If you have any questions, consult with your supervisor.
- A review of the most important points of the program:
  - Asbestos may be a hidden danger, but it is not hard to find ways to protect yourself.
  - Know where Asbestos is located in your facility, and check your Asbestos Management Plan.
  - Inspect all Asbestos locations at least twice a year.
  - Record the results of these inspections in an Asbestos Log Book for future reference.
  - Do not disturb Asbestos-Containing materials unless absolutely necessary.
  - Take steps to prevent contamination during operations involving Asbestos.
  - Always remember to decontaminate after coming into contact with any Asbestos material.

# LEAD ABATEMENT PROGRAM

This program has been put in place because Webcor/Obayashi Joint Venture recognizes that some of the work we do has the potential to expose our employees to lead. We want to do as much as is practically possible to protect them from lead exposure.

Prior to the start of a project, professionals/Industrial Hygienist in lead detection and abatement will be brought in to do an <u>exposure assessment</u> to determine whether the work environments Webcor/Obayashi Joint Venture employees will be operating in have the potential to expose them to lead. These professionals will be used to give Webcor/Obayashi Joint Venture direction as to how to proceed. It will be our goal to have lead abatement taken care of by licensed lead abatement professionals prior to the arrival of Webcor/Obayashi Joint Venture employees.

To help address OSHA's concerns and provide the <u>lead awareness training</u> needed by employees, this program is designed to present fundamental information.

Lead can be found in a number of workplace environments. Until recently, lead was a common component in paints of all kinds (which can create exposure whenever sanding, "sandblasting," scraping, or even demolition occurs).

Workplace experience and empirical studies have shown that lead is fairly easily absorbed into the body. Breathing airborne lead dust and fumes is the most common route of entry. Lead can also be absorbed if it comes into contact with the mouth or tongue.

Overexposure to lead can occur both on an "acute" basis, where large amounts of lead are absorbed into the body in a short period of time, or on a "long-term" basis where small amounts of lead are absorbed at any one time, eventually accumulating to cause significant health problems.

On May 4, 1993, OSHA published the Interim Final Rule for Lead Exposure in Construction. The Construction Standard establishes "Interim" procedures and work practices that must be followed in construction environments. The OSHA Standard and its compliance requirements are included at the end of this written program. The Lead Standards are "performance based"; the standard will tell you what you have to accomplish.

There is really only one General Requirement in the Lead Standards. This requirement also essentially defines the objectives of the standards as far as OSHA is concerned. That is:

• Employers must make sure that no employee is exposed to lead concentrations greater than 50 micrograms per cubic meter of air, averaged over an eight-hour period in any 24-hour day.
The rest of the standard addresses how to accomplish that goal.

Typically, OSHA requires that you use the following methods to protect your employees:

- Engineering controls.
- Work-practice controls.
- Respiratory protection.
- Personal protective clothing and equipment other than respirators.
- Hygiene facilities and practices.
- Housekeeping.
- Employee information and training.

OSHA requires that every employer who is covered by these Standards provide "Information and Training." For employers in the Construction Industry, it requires that they meet the training requirements of the Hazard Communication Standard ("Right To Know"). Information that must be given employees under the Hazard Communication Standard includes:

- The hazards associated with lead exposure.
- Warning signs and labels that can be found on materials containing lead.
- How to find information about materials containing lead on Material Data Safety Sheets (MSDS).
- Use of personal protective equipment.

# THE WRITTEN COMPLIANCE PROGRAM

Prior to the start of a project, professionals/Industrial Hygienist in lead detection and abatement will be brought in to do an <u>exposure assessment</u> to determine whether the work environments Webcor/Obayashi Joint Venture employees will be operating in have the potential to expose them to lead. This policy will be an overall policy with each subcontractor contributing their specific plan as they come on board to the project.

These professionals will give Webcor/Obayashi Joint Venture direction as to how to proceed. It will be our goal to have lead abatement taken care of by licensed lead abatement professionals prior to the arrival of Webcor/Obayashi Joint Venture employees.

# INCIDENT REPORTING INSTRUCTIONS

1.	Ensure the safety	and security of	the individual(s)	) that were injure	ed or involved,	other people
on	site, the public a	nd the project.				

- 2. If this is a 911 emergency consult your Crisis Management Plan.
- 3. All incidents requiring clinic visits contact Danielle DiRicco at 510-476-2578 or 650-520-4251.
- 4. Take photos of the incident scene and surrounding area immediately. Include these photos in the investigation report. Please number, date, use arrows to indicate specific targets, etc.
- 5. Contact your Area Safety Director/Manager.
- ☐ 6. For Webcor/Obayashi Joint Venture Field and Salaried employees complete the entire Incident Investigation Packet thoroughly. The DWC1 form will need to have signatures by both the employee and employer and a copy of the signed form must be given to the employee. You have a maximum of 24 hours to complete the packet. Send all forms via email or fax to Danielle DiRicco at fax number 510-476-3066.
- ☐ 7. For Subcontractor injuries complete the following forms. You have a maximum of 24 hours to complete the forms. Send all forms via email or fax to Danielle DiRicco at fax number 510-476-3066.
  - a. Incident Investigation Packet
  - b. Injured Worker's Statement
  - c. Supervisor's Statement
  - d. Witness Statement
- 8. Before leaving the doctor's office, obtain the <u>Physician's Release/Work Status and the Job</u> <u>Analysis/Work Recommendations Report</u> from the clinic/hospital doctor after each doctor's visit via email or fax to Danielle DiRicco at 510-476-3066.
- 9. Provide training certificates, orientation documentation, Job Hazard Analysis for this specific task to include in the Incident Investigation Packet.
- □ 10. Contact your Area Safety Director/Manager if the injured worker must be hospitalized over twenty-four (24) hours for more than observation. OSHA must be contacted within eight (8) hours of the incident by the Area Safety Director/Manager or designated person.
- ☐ 11. In the event an incident results in a recordable, lost time or near miss a Root Cause Analysis (RCA) shall be performed. The RCA will be scheduled by the Area Safety Director/Manager and participation by the designated project team members is required. See attached Root Cause Analysis instructions.

### INCIDENT INVESTIGATION REPORT FORM

1 5								
Company Name: WC Policy Number:								
Mailing Address:								
Nature of Business (type of contractor):								
Job Site Name: Project Number:								
Job Site Address:								
#2 Employee Information:								
Employee Name:								
Address:								
Street AddressCityStateZip Code								
Social Security Number: Male Female								
Phone Number: ()         Date of birth:/_/         Date hired:/_/								
Job Title:								
Employee usually works:hours per day,days per week, total weekly hours								
Employment Status:  Full Time  Part Time  Temporary  Seasonal								
Gross wages/salary: \$ per								
#3 Injury / Illness Information								
#5 injury / inness information								
Date of Incident:								
Date of Incident:          Date of Incident:          Time Employee Began Work:          If Employee Died, Date of Death:								
Date of Incident:    Day of Week:    Time of Incident:      Time Employee Began Work:    If Employee Died, Date of Death:       Type of Injury:    Part of body injured:								
Date of Incident:       Day of Week:       Time of Incident:         Time Employee Began Work:       If Employee Died, Date of Death:         Type of Injury:       Part of body injured:         Exact Location of Incident (Bldg. Level/Area):								
Date of Incident:       Day of Week:       Time of Incident:         Time Employee Began Work:       If Employee Died, Date of Death:         Type of Injury:       Part of body injured:         Exact Location of Incident (Bldg. Level/Area):       Employee's Direct Supervisor:         Were they working on a crew?       Yes								
Date of Incident:       Day of Week:       Time of Incident:         Time Employee Began Work:       If Employee Died, Date of Death:         Type of Injury:       Part of body injured:         Exact Location of Incident (Bldg. Level/Area):       Employee's Direct Supervisor:         Were they working on a crew?       Yes         No         PPE worn at time of incident (list):								
Date of Incident:       Day of Week:       Time of Incident:         Time Employee Began Work:       If Employee Died, Date of Death:         Type of Injury:       Part of body injured:         Exact Location of Incident (Bldg. Level/Area):       Employee's Direct Supervisor:         Were they working on a crew?       Yes         No         PPE worn at time of incident (list):         Were other workers injured in this event?								
Date of Incident:       Day of Week:       Time of Incident:         Time Employee Began Work:       If Employee Died, Date of Death:         Type of Injury:       Part of body injured:         Exact Location of Incident (Bldg. Level/Area):       Employee's Direct Supervisor:         Were they working on a crew?       Yes         No         PPE worn at time of incident (list):         Were other workers injured in this event?         Yes         No         Date reported to Webcor/Obayashi Joint Venture:        , to whom:								
Date of Incident: Day of Week: Time of Incident:         Time Employee Began Work: If Employee Died, Date of Death:         Type of Injury: Part of body injured:         Exact Location of Incident (Bldg. Level/Area):         Employee's Direct Supervisor:Were they working on a crew? [] Yes [] No         PPE worn at time of incident (list):         Were other workers injured in this event? [] Yes [] No         Date reported to Webcor/Obayashi Joint Venture:, to whom:         Was the employee taken to a medical facility offsite? [] Yes [] No								

# INCIDENT INVESTIGATION REPORT FORM (continued)

Physician's Name:								
Employee Returned to: Regular Work Modified Work If not, estimated return date:								
Were they unable to work for at least one day after date of injury?								
Date Last Worked: Date Returned to Work: is employee still off work? [] Yes [] No								
Was the employee paid full wages for date of injury or last day worked? 🗌 Yes 🗌 No								
Is the employee's salary being continued?  Yes No								
Equipment, materials and chemicals the employee was using when event or exposure occurred (i.e.,								
Acetylene, welding torch, tractor, scaffold)?								
General activity at time of incident (i.e., concrete)?								
Specific task at time of incident (i.e., Finishing)?								

#### INCIDENT INVESTIGATION REPORT FORM (continued)

#4 Description of the Incident (not to be completed by injured worker): NOTE: This does not take the place of a witness Statement. Describe in detail the circumstances of the incident (attach diagrams, drawings and/or photos of accident scene). Give a chronological sequence of events. If materials and/or equipment were involved, start before the materials/equipment was brought to the incident scene describing who, what, where, when, how:

Please indicate the location of all incurred injuries and describe the type of injury.

For example, for a laceration to the right palm – shade the right hand palm and write laceration next to it connected by a line.



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# INCIDENT INVESTIGATION REPORT FORM (continued)

#5 Additional Information
Name of witnesses and others working with injured worker (attach witness statements):
Object, substance, equipment involved in incident (desc/model/serial #):
List PPE worn at time of incident:
Safety equipment, PPE & training required for job:
Does employee normally operate this equipment?  Yes No
Was employee instructed in the safe use of this equipment?  Yes No
When/how? – Describe in detail & attach copies of equipment certifications):
Was any defect with the equipment noted or reported prior to accident/incident? Were standard work procedures followed? Yes No If no, why not – describe in detail, attach additional sheets if necessary and attach a copy of the standard site procedures.
Was a safety rule or specific instruction violated?  Yes No If yes, what – describe in detail, attach additional sheets if necessary and attach a copy of the rule/regulation?
When was the last safety meeting conducted?
When was the last jobsite audit conducted?
Attach copies of the last safety meeting agenda with sign-in sheet and Job Hazard Analysis for specific
task.
#6 Completing Report: Supervisor Completing Report: Management Review By:

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Name: \_\_\_\_\_\_ Signature: \_\_\_\_\_\_ Date report prepared: Name: \_\_\_\_\_\_Signature: \_\_\_\_\_\_

State of California Department of Industrial Relations DIVISION CF WORKERS' COMPENSATION



Estado de California Departamento de Relaciones Industriales DIVISION DE COMPENSACIÓN AL TRABAJADOR

#### WORKERS' COMPENSATION CLAIM FORM (DWC 1)

Employee: Complete the "Employee" section and give the form to your employer. Keep a copy and mark it "Employee's Temporary Receipt" unil you receive the signed and dated copy from your employer. You may call the Division of Workers' Compensation and hear recorded information at (800) 736-7401. An explanation of workers' compensation benefits is included as the cover sheet of this form.

You should also have received a pamphlet from your employer describing workers' compensation benefits and the procedures to obtain them.

Any person who makes or causes to be made any knowingly false or fraudulent material statement or material representation for the purpose of obtaining or denying workers' compensation benefits or payments is guilty of a felony. PETITION DEL EMPLEADO PARA DE COMPENSACIÓN DEL TRABAJADOR (DWC 1)

**Empleado:** Complete la sección "**Empleado**" y entregue la forma a su empleador. Quédese con la copia designada "**Recibo Temporal del Empleado**" hasta que Ud. reciba la copia firmada y fechada de su empleador. Ud. puede llamar a la Division de Compensación al Trabajador al (800) 736-7401 para oir información gravada. En la hoja cubierta de esta forma esta la explicatión de los beneficios de compensación al trabajador.

Ud. también debería haber recibido de su empleador un folleto describiendo los benficios de compensación al trabajador lesionado y los procedimientos para obtenerlos.

Toda aquella persona que a propósito haga o cause que se produzca cualquier declaración o representación material falsa o fraudulenta con el fin de obtener o negar beneficios o pagos de compensación a trabajadores lesionados es culpable de un crimen mayor "felonia".

Employee—complete this section and see note above Empleado—complete esta sección y note la notación arriba. \_\_\_\_\_Today's Date. Fecha de Hoy. \_\_\_\_ 1. Name. *Hombre*. 2. Home Address. Dirección Residencial. State, Estado. \_\_\_\_\_ Zip. Código Postal.\_\_\_\_\_ 3. City. Ciudad. \_\_\_\_\_ Time of Injury. Hora en que ocurrió. \_\_\_\_\_\_a.m. \_\_\_\_\_p.m. 4. Date of Injury. Fecha de la lesión (accidente). Address and description of where injury happened. Dirección/lugar dónde occurió el accidente. 5. 6. Describe injury and part of body affected. Describa la lesión y parte del cuerpo afectada. 7. Social Security Number. Número de Seguro Social del Empleado. 8. Signature of employee. Firma del empleado. Employer—complete this section and see note below. Empleador—complete esta sección y note la notación abaja. 9. Name of employer. Nombre del empleador. 10. Address Dirección. 11. Date employer first knew of injury. Fecha en que el empleador supo por primera vez de la lesión o accidente. 12. Date claim form was provided to employee. Fecha en que se le entregó al empleado la petición. 13. Date employer received claim form. Fecha en que el empleado devolvió la petición al empleador. 14. Name and address of insurance carrier or adjusting agency. Nombre y dirección de la compañía de seguros o agencia administradora de seguros.

 15. Insurance Policy Number. El número de la póliza de Seguro.

 16. Signature of employer representative. Firma del representante del empleador.

 17. Title. Título.

Employer: You are required to date this form and provide copies to your insurer or claims administrator and to the employee, dependent or representative who filed the claim within <u>one working day</u> of receipt of the form from the employee.

SIGNING THIS FORM IS NOT AN ADMISSION OF LIABILITY

Employee copy/ Copia del Empleado

**Empleador:** Se requiere que Ud. feche esta forma y que provéa copias a su compañía de seguros, administrador de reclamos, o dependiente/representante de reclamos y al empleado que hayan presentado esta petición dentro del plazo de <u>un día</u> <u>hábil</u> desde el momento de haber sido recibida la forma del empleado.

EL FIRMAR ESTA FORMA NO SIGNIFICA ADMISION DE RESPONSABILIDAD

Employer copy/Copia del Empleador

Claims Administrator/Administrador de Reclamos 🛛 Temporary Receipt/Recibo del Empleado

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#### Workers' Compensation Claim Form (DWC 1) & Notice of Potential Eligibility Formulario de Reclamo de Compensación para Trabajadores (DWC 1) y Notificación de Posible Elegibilidad



**Return to Work:** To help you to return to work as soon as possible, you should actively communicate with your treating doctor, claims administrator, and employer about the kinds of work you can do while recovering. They may coordinate efforts to return you to modified duty or other work that is medically appropriate. This modified or other duty may be temporary or may be extended depending on the nature of your injury or illness.

Payment for Permanent Disability: If a doctor says your injury or illness results in a permanent disability, you may receive additional payments. The amount will depend on the type of injury, your age, occupation, and date of injury.

<u>Vocational Rehabilitation (VR)</u>: If a doctor says your injury or illness prevents you from returning to the same type of job and your employer doesn't offer modified or alternative work, you may qualify for VR. If you qualify, your claims alministrator will pay the costs, up to a maximum set by state law. VR is a benefit for injuries that occurred prior to 2004.

Supplemental Job Displacement Benefit (SJDB): If you do not return to work within 60 days after your temporary disability ends, and your employer does not offer modified or alternative work, you may qualify for a nontransferable voucher payable to a school for retraining and/or skill enhancement. If you qualify, the claims administrator will pay the costs up to the maximum set by state law based on your percentage of permanent disability. SJDB is a benefit for injuries occurring on or after 1/1/04.

**Death Benefits:** If the injury or illness causes death, payments may be made to relatives or household members who were financially dependent on the deceased worker.

It is illegal for your employer to punish or fire you for having a job injury or illness, for filing a claim, or testifying in another person's workers' compensation case (Labor Code 132a). If proven, you may receive lost wages, job reinstatement, increased benefits, and costs and expenses up to limits set by the state.

You have the right to disagree with decisions affecting your claim. If you have a disagreement, contact your claims administrator first to see if you can resolve it. If you are not receiving benefits, you may be able to get State Disability Insurance (SDI) benefits. Call State Employment Development Department at (800) 480-3287.

You can obtain free information from an information and assistance officer of the State Division of Workers' Compensation, or you can hear recorded information and a list of local offices by calling (800) 736-7401. You may also go to the DWC website at <u>www.dir.ca.gov</u>. Link to Workers' Compensation.

You can consult with an attorney. Most attorneys offer one free consultation. If you decide to hire an attorney, his or her fee will be taken out of some of your benefits. For names of workers' compensation attorneys, call the State Bar of California at (415) 538-2120 or go to their web site at <u>www.californiaspecialist.org</u>.

impuestos. Los pagos por incapacidad temporal son dos tercios de su pago semanal promedio, con cantidades mínimas y máximas establecidas por las leyes estatales. Los pagos no se hacen durante los primeros tres días en que Ud. no trabaje, a menos que Ud. sea hospitalizado(a) de noche, o no pueda trabajar durante más de 14 días.

**Regreso al Trabajo:** Para ayudarle a regresar a trabajar lo antes posible, Ud. debe comunicarse de manera activa con el médico que le atienda, el/la administrador(a) de reclamos y el empleador, con respecto a las clases de trabajo que Ud. puede hacer mientras se recupera. Es posible que ellos coordinen esfuerzos para regresarle a un trabajo modificado, o a otro trabajo, que sea apropiado desde el punto de vista médico. Este trabajo modificado, u otro trabajo, podría extenderse o no temporalmente, dependiendo de la índole de su lesión o enfemmedad.

Pago por Incapacidad Permanente: Si el doctor dice que su lesión o enfermedad resulta en una incapacidad permanente, es posible que Ud. reciba pagos adicionales. La cantidad dependerá de la clase de lesión, su edad, su ocupación y la fecha de la lesión.

**Rehabilitación Vocacional:** Si el doctor dice que su lesión o enfermedad no le permite regresar a la misma clase de trabajo, y su empleador no le ofrece trabajo modificado o alterno, es posible que usted reúna los requisitos para rehabilitación vocacional. Si Ud. reúne los requisitos, su administrador(a) de reclamos pagará los costos, hasta un máximo establecido por las leyes estatales. Este es un beneficio para lesiones que ocurrieron antes de 2004.

**Beneficio Suplementario por Desplazamiento de Trabajo**: Si Ud. no vuelve al trabajo en un plazo de 60 días después que los pagos por incapcidad temporal terminan, y su empleador no ofrece un trabajo modificado o alterno, es posible que usted reúne los requisitos para recibir un vale no-transferible pagadero a una escuela para recibir un nuevo entrenamiento y/o mejorar su habilidad. Si Ud. reúne los requisitos, el administrador(a) de reclamos pagará los costos hasta un máximo establecido por las leyes estatales basado en su porcentaje del incapicidad permanente. Este es un beneficio para lesiones que ocurren en o después de 1/1/04.

Beneficios por Muerte: Si la lesión o enfermedad causa la muerte, es posible que los pagos se hagan a los parientes o a las personas que vivan en el hogar, que dependían económicamente del/de la trabajador(a) difunto(a).

Es ilegal que su empleador le castigue o despida, por sufrir una lesión o enfermedad en el trabajo, por presentar un reclamo o por atestiguar en el caso de compensación para trabajadores de otra persona (El Codigo Laboral sección 132a). Si es probado, puede ser que usted reciba pagos por perdida de sueldos, reposición del trabajo, aumento de beneficios, y gastos hasta un límite establecido por el estado.

Ud. tiene derecho a estar en desacuerdo con las decisiones que afecten su reclamo. Si Ud. tiene un desacuerdo, primero comuníquese con su administrador(a) de reclamos, para ver si usted puede resolverlo. Si usted no está recibiendo beneficios, es posible que Ud. pueda obtener beneficios de Seguro Estatal de Incapacidad (SDI). Llame al Departamento Estatal del Desarrollo del Empleo (EDD) al (800) 480-3287.

Ud. puede obtener información gratis, de un oficial de información y asistencia, de la División estatal de Compensación al Trabajador (Division of Workers' Compensation – DWC), o puede escuchar información grabada, así como una lista de oficinas locales, llamando al (800) 736-7401. Ud. también puede ir al sitio electrónico en el Internet de la DWC en www.dir.ca.gov. Enlácese a la sección de Compensación para Trabajadores.

Ud. puede consultar con un(a) abogado(a). La mayoría de los abogados ofrecen una consulta gratis. Si Ud. decide contratar a un(a) abogado(a), sus honorarios se tomarán de sus beneficios. Para obtener nombres de abogados de compensación para trabajadores, llame a la Asociación Estatal de Abogados de California (State Bar) al (415) 538-2120, ó vaya a su sitio electrónico en el Internet en www.californiaspecialist.org.

# **INJURED WORKER STATEMENT**

Date:	Project Name:	
Name:	Date of Birth	:
Address:	City, State, Zip	
Phone:	Phone 2:	
Date of Incident:	Time of Incident:	□ AM □ PM
What happened? (Explain	in Detail)	
List names of co-workers t	hat witnessed the incident:	
To what part of the body w (Please print in this space a	as the injury sustained? and mark with "X" on diagram)	
Employee Signature:		

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## EMPLOYEE WITNESS STATEMENT

Date:	Project Name:					
Name of witness	Company:					
Address:	City, State, Zip					
Phone:	Phone 2:					
Date of Incident:	Time of Incident:	$\Box$ AM $\Box$ PM				
Name of injured worker: _						
<i>What happened?</i> (Explain	i in Detail)					

I believe the preceding statement to be true to the best of my knowledge.

Witness Signature:

#### SUPERVISOR STATEMENT

Date:	Project Name:					
Name of supervisor	Company:					
Address:	City, State, Zip					
Phone:	Phone 2:					
Date of Incident:	Time of Incident:	□ AM □ PM				
Name of injured worker:						
What happened? (Explain in De	etail)					

I believe the preceding statement to be true to the best of my knowledge.

Supervisor Signature:

#### **RETURN TO WORK PROGRAM**

Modified work is defined as the temporary period of time when the employee first comes back to work with restrictions or job modifications, until the time when they are fully functional in their job or the Company determines that it cannot reasonably accommodate the work restrictions.

Webcor/Obayashi Joint Venture will attempt to provide modified work that allows our injured employees an opportunity to return to work on a modified work status whenever possible. This modified work process will focus on your abilities and we will attempt to make the necessary accommodations for your work restrictions.

When an employee reports an injury, they will be given certain forms and may be taken to a doctor for treatment and/or an examination. If the doctor determines that the employee qualifies for our Return to Work Program, the doctor will complete a work status report with the recommended restrictions for modified duty. Webcor/Obayashi Joint Venture will then review the work status report and to the extent possible provide modified work until the employee is able to return to full duty. Modified work may be offered at any project and/or any shift.

You must inform your doctor that there is modified work available to you, regardless of your work restrictions. You must also report to work immediately if possible, or by the next working day to inform your supervisor in any changes to your work restrictions. You must give your supervisor your written work status from the doctors listing all work restrictions. You may not return to work without release from your doctor.

This letter serves as notice to you that modified work is available to you. Failure to return to the position that is available may affect your employment with Webcor/Obayashi Joint Venture.

Webcor/Obayashi Joint Venture feels it is important to create an environment that allows injured employees an opportunity to recover to their maximum potential and, whenever possible, continue to contribute to the success of our organization.

□ I have read and fully understand the above policy for Webcor/Obayashi Joint Venture Return-To-Work Program.

Signing this form states that I will accept modified duty.

Employee Name (Printed)

Employee Signature

\_/\_\_\_/ Date

#### **RETURN TO WORK AGREEMENT**

Webcor/Obayashi Joint Venture has modified work available that allows our injured employees an opportunity to return to work on a modified work status whenever possible. This modified work process will focus on your abilities and we will attempt to make the necessary accommodations for your work restrictions.

Information received from Dr. \_\_\_\_\_\_indicates that although you are not able to perform all of your customary job duties, you may perform other modified duties as of \_\_/\_/ \_\_\_\_ that are within the following restrictions/capabilities:

We request that you report on:

Date:	Report to:
Time:	Days Per Week:
Address:	Hours Per Day:
Phone:	

\* Wages will not be affected by this agreement.

Modified work is defined as the temporary period of time when the employee first comes back to work with restrictions or job modifications, until the time when they are fully functional in their job or the Company determines that it cannot reasonably accommodate the work restrictions.

This letter serves as notice that modified work is available to you. Failure to return to the position that is available may affect your workers' compensation benefits and may be grounds for termination.

Webcor/Obayashi Joint Venture feels it is important to create an environment that allows injured employees an opportunity to recover to their maximum potential and continue to contribute to the success of our organization.

I \_\_\_\_\_\_ agree to the restrictions given to me by the doctor and will report For modified duty on \_\_\_/\_\_\_.

 $\Box$  I declined this modified work position.

Employee Signature

\_\_\_\_/\_\_\_/\_\_\_\_ Date

If you have any questions or concerns, please contact Danielle DiRicco at 510-476-2578 or 650-520-4251.

#### **MODIFIED DUTY OFFER LETTER**

3/20/2008

Jane Doe 1234 Happy Lane San Francisco, CA 94105

Re: Bona Fide Offer for Modified Duty Dear Jane Doe:

Webcor/Obayashi Joint Venture has offered you modified duty to accommodate the restrictions given by your doctor. Our records show that you have not shown up to work or called your Supervisor in 3 days, we would like to offer you once again modified duty to help you transition back to your full capacity.

We believe this assignment is within your capabilities as described by your doctor. You will only be assigned tasks consistent with your physical abilities, skills and knowledge. If any training is required to do this assignment, it will be provided.

Job title:							
Description of physical requirements of this position							
Address:							
Work Hours: From: () To: ()							
(Wages will not be affected)							
Job:	Supervisor						

-Attached is a copy of the letter you signed at the doctor's appointment when you were put on modified duty, stating you agreed to accept modified/light duty.

-Attached is a copy of the doctor's status report with your restrictions.

This job offer will remain open for 48 hours from your receipt of this letter. If we do not hear from you within 48 hours, we will assume that you have refused this offer and this may be grounds for termination.

We look forward to your return. If you have any questions, please do not hesitate to contact me at: 510-476-2578 or 650-520-4251 or email me at **<u>ddiricco@webcor.com</u>** 

Sincerely,	DO NOT US	E.
Danielle DiRicco Safety Project Assistant	JSE BY SAFETY SPE	ECIALIST ONLY.
WEBCOR/OBAYASHI JOINT VENTURI Site Specific Safety Program Rev 4	E 62	3/23/2012

# ELEVATED WORK

### **Policy & Scope**

All contractors have the duty to provide fall protection for all workers potentially exposed to a fall situation. <u>Safety harness is the only acceptable means of personal fall arrest system permitted on this site,</u> the use of safety body belts is not acceptable and violates federal OSHA standard 1926.502 (d).

#### **Pre-Task Planning/Job Hazard Analysis**

Work activities that expose worker(s) to fall hazards of 6 feet or more, work on/around scaffolding, as well as overhead work requiring the worker to be 6 feet or more above the work platform are activities defined by Webcor/Obayashi Joint Venture to be High Hazard and therefore require detailed, written pre-task planning.

#### **Duty to have Fall Protection**

All workers must be protected from the hazard of falls whenever work is being completed at heights of six feet (6') or greater measured from the work platform to the bottom of the sole of the foot. The six-foot rule, at minimum, applies to the following conditions:

- Ladders
- Walking and working surfaces
- Unprotected sides and edges
- Hoist areas
- Holes
- Formwork and reinforcing steel
- Ramps, runways, and other walkways
- Excavation and trenching
- Dangerous or large pieces of equipment
- Overhand bricklaying and related work
- Precast concrete erection
- Wall openings
- Floor openings
- Leading edge
- Scaffolding erection/dismantle
- Any additional circumstance that may be deemed necessary by Webcor/Obayashi Joint Venture.

### **Fall Protection Systems**

Anytime a potential fall hazard of 6 feet or more exists, a suitable fall protection system must be provided to protect the worker. Examples of suitable systems include the following:

- Guardrail Systems
- Warning Line Systems
- Safety Net Systems
- Positioning Device Systems
- Personal Fall Arrest Systems

### **Falling Object Protection Systems**

Anytime a potential hazard of falling objects exists, suitable systems must be provided to protect workers. Examples of suitable fall object protection systems include the following:

- Covers
- Toe boards
- Canopies
- Debris Nets

### Safety Monitoring Systems

Webcor/Obayashi Joint Venture does not recognize the use of safety monitors as an effective means of ensuring the safety of persons at elevated heights; hence, the use of a safety monitor is only allowed when all other means have been demonstrated to be infeasible. A member of Webcor/Obayashi Joint Venture Project Management, competent in fall protection, will make the final determination, and then only after a written fall protection plan limited to the actual work to be performed is approved by Webcor/Obayashi Joint Venture.

### **Personal Fall Arrest Systems**

Personal fall arrest systems are designed to control the fall of a worker and minimize the injury once a worker has fallen. Personal fall arrest systems consist of the following components:

- Full body harness (body wear)
- Shock absorbing lanyard or retractable (connecting device)
- Tie off point (anchorage)
- Training

### **Specific Requirements**

- Safety harness is the only acceptable means of personal fall arrest system permitted on any Webcor/Obayashi Joint Venture project; the use of body belts is not acceptable for fall protection (including positioning systems).
- Retractable lanyards are the most preferred fall protection systems for this project.
- Each subcontractor and tiered subcontractor is responsible for providing and requiring the use of safety harnesses, lifelines and lanyards when workers are exposed to a fall of 6 feet or greater.
- All subcontractors must provide safety harness at their cost when fall protection is required.
- All lanyards must be equipped with locking snap hooks.
- Appropriate shock absorbing lanyards will be used for fall protection when they do not create a greater hazard due to the length of the potential fall.
- Shock absorbing lanyards are not to be used in combination with a retractable lanyard.
- Any safety harness, lifeline or lanyard actually subjected to in-service loading MUST be immediately removed from service and should not be used again for worker safeguarding.
- Fall arrest equipment should be removed from service when evidence of wear is detected.
- Retractable lifelines are preferred where direct anchorage is not available.
- All safety harnesses, lifelines and lanyards must have a nominal breaking strength of 5,000 lbs (5,400 lbs in CA).

- The anchorage (tie off point) must be capable of withstanding a minimum 5,000 lbs (5,400 lbs in CA) tensile strength per worker attached.
- Anchorage used for attachment of personal fall arrest equipment should be secured above the point of operation whenever possible
- Anchorage, tie off, must generally be above the worker's head.
- Anchorage must be high enough that the worker will not strike any lower level surface or object should a fall occur.
- All fall protection equipment shall be inspected daily/monthly and before each use, with documentation made available upon request that it is in proper working order.

### **Rescue Plans**

Specific plans for rescue of workers should be developed and rehearsed prior to initiating work requiring the use of fall protection. Rescue plans and the basic work plan should be submitted to the Webcor/Obayashi Joint Venture Project Management for review and comment. Concerns expressed by Webcor/Obayashi Joint Venture Project Management or any other reviewing authority shall be addressed fully prior to exposing any worker to the elevated work area.

## Floor & Wall Openings and Guard Rail Systems

To control conditions where there is a danger of workers or materials falling through floor, roof, perimeter edges or wall openings, such openings should be covered/protected and marked with a warning sign (i.e., DANGER HOLE, DO NOT REMOVE).

All protection systems are to be maintained at all times. Any violation that is not rectified immediately will result in removal of the responsible supervisor. Further violations will result in termination for cause of the responsible subcontractor's contract.

### **Floor Openings**

Floor opening covers should be capable of supporting the maximum intended floor load and installed so as to prevent accidental displacement. Covers should be distinctively marked and anchored. For purposes of covering, a floor opening is defined as any opening from 2" up to 16 square feet. All others must be protected with top and intermediate rail and toe board.

# **Rail Systems**

- Standard Railing: A standard railing should consist of a top rail, intermediate/mid-rail, toe board and posts:
  - The top rail should be approximately 42 inches from the upper surface of the rail to the floor, platform, or ramp level. The top rail should have a smooth surface throughout its length and be made of at least 2-inch by 4-inch stock, 3/8-inch double clamped wire rope or its equivalent. It should be secured to withstand a 200-pound, horizontal force with minimum deflection.
  - The midrail should be halfway between the top rail and the floor, runway, platform, or ramp. The ends of the rail should not overhang the terminal posts except when it does not constitute a projection hazard. The midrail sill should be made of at least 1-inch by 6-inch stock or its equivalent.
  - The toe board should have a 4-inch minimum height and should be securely fastened in place with no more than 1/4 inch clearance above the floor level.

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- Wooden railing posts (verticals) should be made of at least 2-inch by 4-inch stock or its equivalent, and be spaced so as not to exceed 8 feet on center.
- Other Railings: Other types, sizes and arrangements of railing construction are acceptable, provided they meet the following requirements:
  - A smooth surfaced top rail approximately 42 inches above the floor.
  - Strength to withstand the minimum of 200 pound top rail pressure with a minimum of deflection.
  - For specific material requirements, refer to applicable regulations.

# **Guard Rail Openings**

- Work that requires the opening of guardrails or the removal of hole covers shall be approved in advance by the Webcor/Obayashi Joint Venture Project Management.
- Particular attention shall be given to the alternate means of fall protection required to safely perform the work and protect other workers in the vicinity of the fall exposure.
- Those who remove the rail, are responsible for replacing it in a manner meeting or exceeding local, state, federal, or Webcor/Obayashi Joint Venture practices, whichever may be more stringent.

# Safety Nets

Safety nets will comply with CFR 1926.502 requirements. The use of safety nets may be allowed only after a written fall protection plan limited to the actual work to be performed is reviewed and approved by Webcor/Obayashi Joint Venture. Below are guidelines for Safety Nets:

- Safety nets should be provided by the subcontractor or tiered subcontractor when work places are more than 25 feet above the ground or other surfaces where the use of ladders, scaffolds, catch platforms, temporary floors, safety lines or safety harnesses are impractical. When safety net protection is required, operations should not be undertaken until the net is in place and has been thoroughly tested.
- Safety nets should extend 8 feet beyond the edge of the work surfaces where workers are exposed and should be installed as close under the work surface as practical. In no case should the safety net be more than 25 feet below the work surface. Nets should be hung with sufficient clearance to prevent the user's contact with surfaces or structures below. Clearances should be determined by impact load testing.
- The mesh size of the nets should not exceed 6 inches by 6 inches. All nets should meet accepted standards of 17,500 foot pounds minimum impact resistance, as determined and certified by the manufacturer, and should bear a label of proof test. Edge ropes should have a minimum breaking strength of 5,000 pounds. Forged steel safety hooks or shackles should be used to fasten the net to its supports. Connections between net panels should develop the full strength of the net.

# **Fall Protection Training**

Subcontractors and all tier subcontractors must provide as a minimum, by a competent person, the following training. Documentation of training must be forwarded to Webcor/Obayashi Joint Venture upon request. Training must include, at a minimum:

- The nature of the fall hazards in the work area.
- The correct procedure for erecting, maintaining, disassembling and inspecting the fall protection systems to be used (the installation of personal fall protection systems cannot in themselves create a fall hazard exposure to the worker installing the system).

- The use and operations of guardrail systems, personal fall arrest systems, safety net systems, warning line systems, safety monitoring systems (refer to section 2.3 of this Appendix), controlled access zones and any other methods of protection to be used.
- The role of each worker in the safety monitoring system (refer to section 2.3 of this appendix) when this system is approved for use.
- The limitations on the use of mechanical equipment during the performance of roofing work on low-sloped roofs.
- The correct procedures for the handling and storage of equipment and materials and the erection of overhead protection.
- The role of workers in fall protection plans.

# **Aerial Lifts**

- Lifts should be inspected each day prior to use to verify they are in safe working condition. (Refer to Scissor/Boom Lift Inspection form at the end of this Appendix or use manufacturer's inspection guidelines.)
- Only authorized persons should operate an aerial lift, and must be trained on the equipment they will be operating.
- Always stand on the floor of the basket, do not sit or climb on the edge of the basket or use planks, ladders, or other devices for a work position.
- A body harness should be worn and a shock absorbing lanyard attached to the boom or basket when working from an aerial lift. Tying off to an adjacent pole, structure or equipment is not permitted.
- Boom and basket load limits specified by the manufacture should not be exceeded.
- The brakes should be locked and when outriggers are used, they should be positioned on pads or a solid surface. Wheel chocks must be used before using an aerial lift on an incline provided they can be safely installed.
- An aerial lift truck should not be moved when the boom is elevated with personnel in the basket.
- Aerial lifts should have both platform (upper) and lower controls. Upper controls should be in or beside the platform within easy reach of the operator. Lower controls should provide for overriding the upper controls. Controls should be plainly marked as to their function. Lower level controls should not be operated unless permission has been obtained from the employee in the lift, except in case of emergency.
- Lifts must be thoroughly inspected to determine if they require two hands or a hand and a foot to operate. Any lift that does not meet these conditions must immediately be removed from service and either returned, replaced, or modified to meet this requirement.
- A spotter may be needed when there is a potential for operator injury due to physical contact with facility systems or structures or in congested areas. Spotters may also be needed when there is a potential for damage to sensitive facility systems or structures.

# **Scissor Lifts**

- Lifts should be inspected each day prior to use to determine that they are in safe working condition (refer to Scissor/Boom Lift Inspection form at the end of this Appendix or use manufacturer's inspection guidelines).
- Only authorized persons should operate a scissor lift, and must be trained on the equipment they will be operating.
- Lifts should be operated in accordance with manufacturer's recommendations.

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• Lifts must be thoroughly inspected to determine if they require two hands or a hand and a foot to operate. Any lift that does not meet these conditions must immediately be removed from service and either returned, replaced, or modified to meet this requirement. If the requirement cannot be met for a two-hand controlled scissor lift, and a lift is unavailable to meet this requirement, a spotter will be needed for all equipment movement (other than incidental movement where there is no potential for operator injury due to physical contact with facility systems or structures).

Note: A spotter may be needed when there is a potential for operator injury due to physical contact with facility systems or structures and in congested areas. Spotters may also be needed when there is a potential for damage to sensitive facility systems or structures.

# RESPIRATORY PROTECTION PROGRAM

#### Purpose

The purpose of this plan is to establish a program and procedures for wearing respiratory protection at **WEBCOR/OBAYASHI JOINT VENTURE.** 

This program supports compliance with the Occupational Safety and Health Administration Respiratory Protection Standard as found in 29 CFR 1910.134. This program applies to all company employees who work in areas whose exposures to airborne contaminants require the use of respirators.

#### Definitions

Dusts: Particles released during work operations such as grinding and sawing.

*Fit Testing:* The process of making sure that an employee's respirator fits property and will provide the necessary protection without any leaks.

Fumes: Vaporized, condensed metals such as lead that may be present during welding operations.

Gases: Examples include nitrogen, methane, and carbon monoxide.

*IDLH*: An OSHA hazard classification—"Immediately Dangerous To Life & Health." An atmospheric condition that poses an immediate hazard to life or poses immediate irreversible debilitating effects on health.

Mists: Particles of liquid released during operations such as spray painting.

*NIOSH*: National Institute for Occupational Safety and Health; an agency that establishes minimum performance standards for respirators and tests and approves respirators for various uses.

Vapors: Gaseous forms of a liquid such as paint solvents.

Responsibilities

The Program Administrator

Responsible for:

- Issuing and administering this program and making sure that the program satisfies the requirements of all applicable federal, state, or local respiratory protection requirements.
- Providing initial and periodic training to employees on respiratory protection requirements.
- Conducting hazard assessments where respiratory hazards may be present.
- Assisting managers and supervisors in the selection of appropriate respiratory protection for use on their jobsites.
- Auditing the respiratory protection program to ensure its continued effectiveness.

The Purchasing Agent will be the Jobsite Superintendent.

WEBCOR/OBAYASHI JOINT VENTURE Site Specific Safety Program Rev 4 Responsible for:

- purchasing respiratory protection equipment.
- Assuring that all equipment purchased is approved by NIOSH/MSHA.

Superintendents Whose Jobsites Are Required To Wear Respiratory Equipment. Responsible for:

- Knowing the hazards in their areas that require respiratory protection.
- Knowing the types of respirators that need to be used.
- Enforcing the wearing of respiratory protection in the areas where it is required.
- Making sure employees are knowledgeable about the respiratory requirements for the areas in which they work.
- Providing training on hazardous chemicals to employees.

Employees Who Are Required To Wear Respiratory Protection. Responsible for:

- Wearing appropriate respiratory protection.
- Properly maintaining their respiratory protection equipment and keeping it in a clean and operable condition.

# Program Activities

General

- Respiratory hazards will be assessed on the jobsite and appropriate protection will be provided for all affected employees.
- Employees are required to wear respiratory protection wherever respiratory hazards exist.
- Respiratory protection is stored and issued from the jobsite office.
- Efforts will be made to minimize the use of hazardous chemicals in the workplace.
- If the use of hazardous chemicals creates an imminent-danger situation, the operation will be discontinued.

# Selection and Use of Respirators

- Respirators will be selected according to the type of activity for which they will be used and the type of potential air contaminants associated with these activities.
- Only NIOSH/MSHA approved respirators will be used.
- All respirator protection equipment will be used in accordance with the manufacturer's recommendations.
- In areas in which maintenance and sanitation services are unavailable or respiratory usage is limited, disposable respirators will be used.
- Non disposable respirators which are used exclusively by one person will be maintained and cared for by the wearer.
- All non disposable respirators which are used by more than one person will be cleaned and sanitized between each use.
- Jobsite Superintendents will be responsible for re-issuing of respirators.
- Chemical cartridge respirators will be stored in airtight, labeled containers between each use. All other respirators will be stored in a clean and sanitary manner and labeled with the wearer's name.

• Disposable respirators will be used until the cartridge or filter media requires replacement or when the face piece is dirty.

### Respirator Inspection and Maintenance

- Respirators will be inspected by the wearer prior to each use.
- Supervisors on jobsites where respirators are used will verify that appropriate respirator protection is being used, inspected, and maintained properly.
- Non disposable respirators will be inspected according to the manufacturer's instructions.

#### Fit Testing

- All users of respirators will be fit tested to ensure a proper face piece-to-face seal.
- Employees whose facial hair interferes with the face piece-to-face seal will not be allowed to wear negative-pressure air-purifying respirators.

#### Training

- All employees who are required to wear respirators will receive training in their use, selection and appropriate maintenance.
- Training will provide an opportunity for the employee to handle the respirator, have it fitted property, test the face piece-to-face seal, wear it in normal air, and wear it in a test atmosphere.

#### Wearing Respirators In Emergency Situations

- Respiratory protection designated for emergency use will be inspected monthly.
- All employees who are expected to use emergency equipment will be trained in its use.

# SILICA EXPOSURE PROGRAM

### Purpose

The purpose of this policy is to establish procedures to protect employees from the health hazards associated with exposure to airborne crystalline silica generated by various construction activities. Due to the amount of work we do with concrete and masonry on almost any project; our workers have the potential for silica exposures through abrasive blasting, chipping, hammering, sawing, grinding or demolition of concrete.

Silicosis is a lung disease marked by hardening of lung tissue and symptoms such as shortness of breath, possible fever, fatigue and eventual respiratory failure. Silicosis also renders a person more susceptible to disease of the lungs, such as tuberculosis. Where there is concrete, there is a potential silica exposure so it is essential to monitor our work activities and take the necessary corrective actions to protect our employees.

### Responsibilities

Project Supervision shall:

- Evaluate all work activities for silica exposures
- Institute engineering controls as a first line of protection to reduce silica exposures
- Institute all administrative/work practice controls to reduce silica exposures when feasible and when engineering controls have been explored and ruled out.

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- Institute the use of respirators to reduce exposures when the above mentioned controls fail to reduce silica exposure levels
- Provide training identified in this policy when employees are exposed to silica hazards
- Provide necessary respirator protection as well as training in its proper use, when deemed necessary.

Craftsmen shall:

- Follow all work plans that identify engineering and administrative work practice controls to reduce their exposure to crystalline silica
- Wear respiratory protection to reduce their exposure to crystalline silica when deemed necessary by their supervisor
- Not eat, drink, use tobacco products or apply cosmetics in areas where there is dust containing crystalline silica

## Procedure

Exposure Assessment

- Work tasks that must be monitored for crystalline silica exposure include by are not limited to:
  - Jack hammering and chipping
  - Grinding concrete
  - Tunneling
  - Sandblasting
  - Dry sweeping or blowing concrete debris, sand or rock dust
  - Demolition of concrete/masonry structures
  - Crushing, loading, dumping rock or concrete
  - Saw cutting concrete or rock
  - Crystalline silica exposures must be maintained below the OSHA PEL of

### <u>10mg/m3</u>

(Percentage Quartz) +2

- Historical data from similar operations producing silica exposure can be used as exposure monitoring when feasible
- Assessment of worker exposure to reparable crystalline silica dust during various tasks associated with concrete finishing and demolition activities is performed annually by an Industrial Hygienist. Specific job tasks monitored include:
  - Grinding and Patching
  - Chipping
  - Demolition
  - Segregation, stockpile, and loading of concrete rubble

# **Engineering Controls**

- When it has been determined that employees will be exposed to crystalline silica in excess of the PEL, engineering controls will be used as a first line of defense.
- Engineering controls include, but are not limited to:
  - Use of dust collection systems which are available for many dust generating tools and equipment
  - Wetting down the grinding or cutting surface to reduce dust emissions

- During saw cutting, use equipment that provides water to the blade
- During rock drilling, use water through the drill stem to reduce the amount of dust in the air
- During abrasive blasting use abrasives with a low silica or no silica content
- Use local exhaust ventilation to prevent dust from being released into the air
- In the event engineering controls fail to reduce worker silica exposure below the PEL administrative controls will be the next line of defense.

#### Administrative/Work Practice Controls

- When engineering controls cannot be utilized or are not effective to sufficiently reduce exposure to the inhalation of silica, administrative controls will be used when feasible to reduce the time of exposure for the employees
- Where work crews are of sufficient size, the pool of workers skilled in the operation of applicable tools, and job duration is sufficient to accommodate worker rotation, develop a program to reduce the exposure time of individual workers to silica.

#### **Respirator Protection**

- When engineering and administrative/work practice controls cannot be utilized or are not effective to sufficiently reduce exposure to inhalation of silica, respirators must be used to reduce employee exposures.
- Select respirators based on the criteria identified in the respirator protection section of this manual.

#### **Follow-up Monitoring**

- After initial assessment and institution of exposure controls, follow-up air monitoring will be conducted to assess the effectiveness of the controls put in place
- In the event that the follow-up monitoring reflects that instituted controls have not yet reduced employee exposures, the operations will cease, be re-evaluated and alternative controls will be explored to reduce employee exposures to silica

### Training

- Employees will be trained in the following
  - Hazards of silica exposure
  - The requirements of this program
  - Engineering and administrative/work practice controls, if any, that have been instituted to control silica exposures
  - Personal protective equipment specific to their work assignments
  - The employees right of access to exposure monitoring and medical records.

#### **Emergency Procedures**

- Call 911
- Identify the injury
- Provide necessary first aid
- Ventilate the area
- Utilize the eye wash station
- Stabilize the person, wear PPE

- Don't move injured unless absolutely necessary
- Secure scene, make sure no one else can be hurt
- Release care of injured to emergency personnel
- Get medical screening if you come into contact with blood

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# CONCRETE CODE OF SAFE PRACTICES

### Introduction

The concrete appendix is established to assist in conforming to the requirements for all construction activities involving concrete performed on Webcor/Obayashi Joint Venture projects. This includes, but is not limited to:

- Cast in Place
- Shoring & Reshoring
- Formwork/False work
- Post Tensioning
- Placing & Finishing
- Etc.

### Definitions

Bull float means a tool used to spread out and smooth concrete.

*Formwork* means the total system of support for freshly placed or partially cured concrete, including the mold or sheeting (form) that is in contact with the concrete as well as all supporting members including shores, reshores, hardware, braces, and related hardware.

*Limited access zone* means an area alongside a masonry wall, which is under construction and which is clearly demarcated to limit access by employees.

*Precast concrete* means concrete members (such as walls, panels, slabs, columns, and beams) which have been formed, cast, and cured prior to final placement in a structure.

*Reshoring* means the construction operation in which shoring equipment (also called reshores or reshoring equipment) is placed, as the original forms and shores are removed, in order to support partially cured concrete and construction loads.

Shore means a supporting member that resists a compressive force imposed by a load.

### **Fall Protection**

Workers working more than 6 feet above any adjacent working surface or placing reinforcing steel in walls, piers, columns, etc. should be protected by personal fall arrest system, guardrail system or equivalent device. In addition to the above general guidelines, the following specific guidelines will also apply

- Unless otherwise provided by a site specific fall protection plan, the placing of frames and stringers should be from below via appropriate ladders, temporary work platforms, false decks, scaffolds, or other similar work platforms.
- Unless otherwise provided by a site specific fall protection plan, the first several joists spread should be from below via appropriate ladders, temporary work platforms, false decks, scaffolds, or other similar work platforms. Once the first several joists are positioned, a work platform (e.g. 4x6 sheet of

plywood or similar) should be placed on top of a placed joists and all further spreading of joists should take place from this work platform or successive sheets of plywood laid to extend this platform. Work should take place from the center of the bay, with joists spaced no greater than 24" on center. Any work within 6' of the leading edge and greater than 6' above a lower working surface should be protected by a suitable fall protection system.

- Workers inside a Cunningham beam for, where the form leading edge is less than 39" in height and the worker is greater than 6' above a lower working surface, should be protected by a suitable fall protection system consisting of a catenary or similar pendant type line and personal fall arrest system.
- As soon as practical, a perimeter guardrail system should be established. For more information on guardrail systems refer to the Elevated Work Appendix.
- Special attention and consideration should be given to workers on ladders within 6' of leading edge such as when working on columns or wall forms. Additional fall protection measures may be required.
- When working on vertical reinforcing steel columns or false work, fall protection should be set in advance from ladders, manually propelled elevated work platforms, or similar means so that 100% fall protection can be utilized.
- Workers on wall forms greater than six (6) feet above any adjacent working surface should be protected from falling by a personal fall arrest system or equivalent system. Ensure appropriate anchorage points are provided and utilized. Where applicable, a two hook system for 100% fall protection should be utilized.
- Workers who are placing or tying reinforcing steel more than six (6) feet above any adjacent working surface should be protected from falling by personal fall arrest system or equivalent system.
- When workers are exposed to falls greater than six (6) feet above any adjacent working surface while erecting or dismantling shoring systems, they should have suitable fall protection as necessary utilize an appropriate anchorage point
- In addition to the above fall protection requirements, when erecting and dismantling shoring, a minimum of two scaffold grade planks should be used or other similar means, such as mobile scaffolding, lifts, etc. Planks should rest on horizontal frame members and not on cross bracing.
- The use of positioning systems as a sole means of fall protection is not permissible.

For additional information on fall protection requirements, refer to the Elevated Work Appendix.

# Formwork/False work

General Guidelines

• Formwork, false work and shoring should be designed, fabricated, erected, supported, braced and maintained so that it will be capable of supporting without failure all vertical and lateral loads that may reasonably by anticipated to be applied to the formwork. Formwork which is designed, fabricated, erected, supported, braced and maintained in conformance with ANSI A10.9-1983 Construction and Demolition Operations – concrete and masonry work, will be deemed to meet the requirements of this paragraph.

- Drawings or plans, including all revisions, for the jack layout, formwork (including shoring equipemt0, working decks, and scaffolds, should be available at the jobsite.
- Procedures for safe installation, removal, lifting etc., should be available at the jobsite and all workers appropriately trained in these procedures as applicable.
- Work areas should be clear of all unauthorized personnel during installation, concrete placement and removal. Appropriate barricading, delineation and/or signage should be placed to limit access and alert other workers of hazards associated with the work area.
- At no time should workers place themselves underneath a live load.
- When hoisting material, the worker should be positioned to the side of the hoisted material and never into the pinch point between the hoisting equipment and the material or in the area where an operator would land material in the event of an emergency.
- Appropriate tag lines should be utilized as required and two tag lines may be necessary to help align/control panels or forms.
- Safe means of access and egress should be maintained at all times.

# Removal

- Forms and shores (except those used for slabs on grade and slip forms) should not be remove until the employer determines that the concrete has gained sufficient strength to support its weight and superimposed loads. Such determination should be based on compliance with one of the following:
  - The plans and specifications stipulate conditions for removal of forms and shores, and such conditions have been followed, or
  - The concrete has been properly tested with an appropriate ASTM standard test method designed to indicate the concrete compressive strength, and the test results indicate that the concrete has gained sufficient strength to support its weight and superimposed loads.
- Prior to dismantling, the entire system should be inspected to determine if there are any hazards from displacement, weakening, alterations etc. of the shoring and false work.
- Shores, cross braces etc. should only be removed in the immediate work areas and as appropriate.
- All nails should be removed or bent over immediately upon stripping.
- Shoring, formwork and all other equipment being removed should be stacked, consolidated or placed in an orderly manner as soon as practicable during the removal operation and egress/access paths maintained at all times.
- Only appropriate tools should be used for removal of shoring and formwork. i.e. pry bars, cats paws, tec. versus the claw end of hammers, screwdrivers etc.

# **Shoring and Reshoring**

General Guidelines

- All shoring and reshoring operations should comply with all federal, state local and manufactures regulations.
- All shoring equipment (including equipment used in reshoring operations) should be inspected prior to erection to determine that the equipment meets the requirements specified in the formwork drawings.

- Shoring equipment found to be damaged, severely rusted, missing locking devices etc. should not be used for shoring. Shoring equipment that is in place and is found to be damaged or weakened, should be immediately reinforced.
- Erected shoring equipment should be inspected immediately prior to, during and immediately after concrete placement.
- The sills for shoring should be sound, rigid and capable of carrying the maximum intended load.
- Base plates should be attached to a minimum of 12' square, 2" plywood or equivalent.
- All base plates, shore heads, extension devices, and adjustment screws should be in firm contact, and secured when necessary, with the foundation and the form.
- Existing ground should be level, adequately compacted and loads distributed. Consideration should be given to adverse weather conditions such as washouts, rain impact to slopes etc. Special precautions such as hardwood wedges or bracing should be utilized on sloped surfaces.
- All clamps, screws, pins and other similar components should be in a closed or engaged position.
- Eccentric loads on shore heads and similar members are prohibited unless these members have been designed for such loading. Ensure stringers are centered on these members to minimize eccentric loading.
- Adequate access should be provided to all form deck surfaces. If access ladders are required these should be secured and extend at least 36" above the form deck surface.
- When horizontal shoring is required, these should be engineered and special consideration should be given to installation and conformance to the completed design.
- Ensure all stringers and joists are fully supported and centered over shoring heads/top plates and adequately secured. Further, ensure that all stringers and joists are fully upright and not rolled.
- All horizontal shoring should be installed and erected in compliance with manufacture's requirements as well as federal, state and local regulations.

Frame Shoring

- The design of the shoring should be prepared by a qualified designer and the erected shoring should be inspected by an engineer qualified in structural design.
- The shoring design or layout drawing should be followed with no omissions of required components, or alteration in frame spacing's, types used, towers heights, locations or sizes.
- Shoring loads should be carried on all legs.
- All shoring fames should be plumb and level. This should be checked and corrected at a minimum of during erection and just prior to the pour. Adjustment of shoring frames should not be made once the pour begins.
- When shoring height exceeds a minimum of four (4) times the minimum base width, additional bracing and securing of the frames should be performed.
- Cross braces should never be climbed and workers should climb frames from the inside.

Screw Jacks

• Screw jacks should not exceed the manufactures recommended extension height at any time.

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- Screw jack extension should be kept to a minimum for maximum load carrying capacity.
- All screw jacks should be in firm contact with the foundation and frame legs.

## Post Shoring

- The single post shores should be vertically aligned/plumbed. This should be checked and corrected at a minimum of during erection and just prior to the pour.
- Adjustment of post shores for any reason, including but not limited to raising formwork, should not be made once the pour begins.
- Refer to the manufacture's guidelines for additional stability measures and bracing requirements of each system used.
- Post shores should be adequately secured at top and bottom to prevent displacement.
- Whenever single post shores are used one on top of the other (tiered), they should comply with the following specific guidelines in addition to the general guidelines for formwork:
  - The single post shores should be spliced to prevent misalignment.
  - The single post shores should be adequately braced in two mutually perpendicular directions at the splice level.
  - Each tier should also be diagonally braced in the same two directions.

## Ellis Shores

- Ensure shores are erected with the proper length of timbers allowing a minimum of 24" overlap between shore members.
- The shore clamps should be attached 12" apart with the upper clam at a minimum of 2" form the top of the lower shore. Each clamp should be secured with the appropriate number of type of duplex nails.
- Shores should be raised to the desired height by sliding the upper shore member upwards being careful to avoid pinch points.
- Shore hand jacks should not be used to raise decks, lift formwork or elevate concrete.
- Ensure all shores, jacks and clamps are inspected prior to use and any damaged or defective materials are removed or repaired prior to use.
- Safety nails should be secured above each clamp of the upper shore member casting to prevent uplift or movement during vibration.

# Reshoring

- Shores should not be removed, including cross bracing, until the concrete has gained sufficient strength to support its weight and superimposed loads. Such determination shall be based on compliance with one of the following:
  - The plans and specifications stipulate conditions for removal of forms and shores, and such conditions have been followed, or
  - The concrete has been properly tested with an appropriate ASTM standard test method designed to indicate the concrete compressive strength, and test results indicate that the concrete has gained sufficient strength to support its weight and superimposed loads.

- Stripping and removal of shoring equipment should be performed in conformance to the approved stripping sequencing plan.
- Reshoring should be erected, as the original forms and shores are removed, whenever the concrete is required to support loads in excess of its capacity.
- The design of the shoring should be prepared by a qualified designer and the erected shoring should be inspected by an engineer qualified in structural design.
- The shoring design or layout drawing should be followed with no omissions of required components, or alterations in spacing's, types used, heights, locations or sizes.
- Reshoring should not be removed until the concrete being supported has attained adequate strength to support its weight and all loads in place upon it.
- Reshores should be placed directly below load carrying legs to avoid punch through, stress reversals or other undesirable forces on the poured concrete.
- Slabs or beams should be allowed to take their permanent deflection before final adjustment of reshoring equipment is made.
- Horizontal shoring should never be used as part of a reshoring system.

# Bracket Scaffolds

- Bracket scaffolds should only be used when through bolted walls, with at least 5/8" diameter bolts.
- Scaffolds should be solidly secured to the walls or the supporting structure.
- Scaffolds should be able to support at least 4 times the maximum intended working load.
- Spacing of brackets should not be greater than 10' apart.
- Railings should be installed on all scaffolds 6' or greater in height.
- Platforms should consist of at least two 2"x10" planks that extend at least 6" over each bracket and no more than 18".
- Platforms should be solidly planked with no more than 7" gap under the back rail and 14" gap to the face of the form.
- Planking should be scaffold grade lumber or equivalent and should be free from damage, defects, cracks, splits etc. Damaged planks should not be used.

# **Reinforcing Steel**

- All protruding reinforcing steel, onto and into which employees could fall, should be guarded to eliminate the hazard of impalement. When working at grade, impalement hazards from 4" to 6' in height, at a minimum, should be protected.
- Reinforcing steel for walls, piers, columns, and similar vertical structures should be adequately supported to prevent overturning and to prevent collapse.
- Employers should take measures to prevent unrolled wire mesh form recoiling. Such measures may include by are not limited to securing each end of the roll or turning over the roll.
- Reinforcing steel should be stockpiled as close as practicable to work areas. Additionally special attention should be taken towards access and egress to work areas, excavations and ensuring work areas are free from tripping hazards or other surface encumbrances.

# **Concrete Placement and Finishing**

General

- Appropriate PPE should be utilized during concrete placement. This includes but is not limited to; safety glasses, fall protection, gloves, boots, hardhat, and long sleeves. Refer to the Personal Protective Equipment appendix for more information.
- Appropriate respiratory protection should be used for all concrete cutting, grinding, sanding, and blasting, scabbling, dry mixing, jack hammering etc. operations or any other operation involving respiratory hazards. Refer to the Respirator Protection Appendix for more information.
- When discharging concrete on a slope, the wheels of ready-mix trucks should be blocked, the brakes set to prevent movement and the operator with the vehicle at all times.
- All washout activities should be completed in the designated washout area.
- All concrete cutting, finishing and cleanup should be done in such a manner that all residue or waste water will be properly contained and disposed of.
- Appropriate precautions should be taken for specialty applications (e.g. acid washing, dyes, stains etc.); in their handling, storage use and disposal.
- Powered and rotating type concrete troweling machines that are manually guided should be equipped with a control switch that will automatically shut off the power whenever the hands of the operator are removed from the equipment handles.
- Bull float handles used where they might contact energized electrical conductors, should be constructed of nonconductive material or insulated with nonconductive sheath that's electrical and mechanical characteristics provide the equivalent protection of a handle constructed of nonconductive material.
- Masonry saws should be guarded with a semicircular enclosure over the blade.
- When operation air guns for cleaning off decks, inside forms etc., these guns should have a maximum of 30 psi nozzle pressure and be equipped with a safety release valve.
- Air guns should have pressure valves, and extension tube and the hoses well maintained with appropriate whip checks.
- Employee operating air guns should have appropriate PPE, including but not limited to, chip protection (i.e. face shield, goggles etc.), ear plugs and respiratory protection as required.
- No employee should be permitted to perform maintenance or repair activity on equipment (such as compressors mixers, screens, pumps used for concrete and masonry construction activities) where the inadvertent operation of the equipment could occur and cause injury, unless all potentially hazardous energy sources have been locked out and tagged.

Concrete Buckets

- No employee shall be permitted to ride concrete buckets.
- No employee should be permitted to work under concrete buckets while buckets are being elevated or lowered into position.

- To the extent practical, elevated concrete buckets should be routed so that no employee or the fewest number of employees are exposed to the hazards associated with falling concrete or falling buckets.
- Concrete buckets equipped with hydraulic or pneumatic gates should have positive safety latches or similar safety devices installed to prevent premature or accidental dumping.
- Concrete buckets should e designed to prevent concrete from hanging up on top of the sides.

Pumpcrete Systems

- No employee should be permitted to apply a cement, sand and water mixture through a pneumatic hose unless the employee is wearing appropriate personal protective equipment.
- Concrete pumping systems using discharge pipes should be provided with pipe supports designed for 100 percent overload.
- Compressed air hoses used on concrete pumping systems should be provided with positive failsafe joint connectors to prevent separation of sections when pressurized.
- Movement of concrete hoses should be planned to limit the amount of manual positioning of hose as much as practicable. When necessary, the use of hooks, ropes or other similar devices should be utilized when handling the concrete hose.

Buggies and Wheelbarrows

- Concrete buggy handles should not extend beyond the wheels on either side of the buggy.
- Handles should be guarded or equipped with knuckle guards.
- All buggies, wheelbarrows or other similar conveyances should be properly maintained and repaired/replaced immediately if damaged, in poor repair or otherwise.
- Paths of access and travel should be level, free of debris and other surface encumbrances and ramps or other access ways should be appropriately built, maintained, and protected.
- Buggies, wheelbarrows etc. should not be overloaded.

# **Post-Tensioning Operations**

- No employee (except those essential to the post-tensioning operations) should be permitted to be behind the jack during post-tensioning operations.
- Signs and barriers should be erected to limit employee access to the post-tensioning area during tensioning operations.
- Appropriate fire protection measures should be taken during burning operations, including by not limited to spark control or blankets, fire extinguishers, wetting formwork etc.

# **Emergency Response Procedures**

In the event of a collapse or failure of formwork, false work or an excavation, the following general emergency procedures should be initiated:

Initial Stage of a collapse (before rescue recovery)

- Get other exposed individuals out of the area.
- Call 911
- Secure the area

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- Shut down all equipment that might cause vibration (with the exception of dewatering equipment) or additional loading. Reroute traffic to eliminate vibration if necessary.
- Do not enter a failed excavation or area of collapse without adequate protection
- Do not remove hand tools, personal protective equipment, or other material from the scene that may be used to locate a victim.
- Begin removing standing or seeping water
- Find out if the failure damaged a utility. If so, take appropriate action.
- Consider tying a digging tool to a rope and tossing it t a conscious and able victim so that he or she may dig out without having another person enter the excavation.
- Account for everyone
- Follow standard emergency procedures as detailed in the Crisis Management Plan.

Rescue or recovery

- Do not attempt to pull a partially trapped/buried victim out by a rope or sling. This may cut the victim in half or pull limbs from the body. It may also loosen dirt or material enough to create a secondary cave-in/collapse.
- If equipment is used to remove material from around a victim, remove/dig so that loosened material will fall away rather than toward the victim. It is generally bad practice to use equipment to dig someone out because the vibration and surcharge can cause further failures. In the case of an excavation, a better option might be to locate and use a vacuum truck.
- Assist all emergency response personnel as needed.
- Ensure that adequate equipment is available for a sustained rescue effort (e.g. shoring materials, equipment, generator, lighting, supplies, personnel etc.)
- Control traffic and crowds. Reroute traffic as necessary.

### **Permitting/Documentation**

Before a contractor is on site, the following items should be obtained in writing:

- Permit for excavation/trenching activities (Cal OSHA Excavation Notification Form as applicable) for all trenches/excavations that are equal to or greater than 5' in depth where an employee is required to enter.
- Permit for any false work or scaffolding 36' in height or greater total.
- Excavation and trenching plan
- Shoring/False work design or plan
- Name(s) of competent person(s)
- Soils analysis report
- Copy of their Safety Manual

# FORMS

MANAGEMENT INSPECTION REPORT									
Job #				Joh I	agation/Nama				
WEBCOR				J00 L	ocation/ Name				
Date Month / Day / Year				Time					
Jobsite Supervisor				Safet	v Manager				
Last First	Last First								
Last First				Insur Last	First				
X – Corrective Action Required				0-	No Corrective Action Required				
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1. PERSONAL PROTECTIVE EQUIPMENT					7. FIRE PROTECTION			-	
1. Hard Hats					1. Extinguishers				
2. Eye Protection					2. Flammable Materials				
3. Ear Protection					3. Welding / Cutting Equipment				
4. Respirators									
5. Proper Clothing					8. TOOLS				
6. Foolwear 7. Safety Belts					2 Guarded				
7. Safety Bens					3 Power Cords				
2. HOUSEKEEPING					4. Temp. Power Boxes				
1. Exits & Stairs Clear									
2. Piling & Stacking					9. SITE & PUBLIC PROTECTION				
3. Debris Removal					1. Excavation / Trenches				
4. Nails Bent or Removed					2. Earth Moving Equipment				
3 I ADDERS & STAIRS					3. FOIKIIIT / Clanes				
1 Ladder Condition					5 Lighting				
2. Ladders Tied Off					6. Barricades				
3. Ladder 3' Above Landings					7. Signage				
4. Stairs					8. Rebar Caps				
						-			
4. RAILINGS / FLOOR OPENINGS					10. FIRST AID				
2 Floor Openings / Shafts					2 Kits / Supplies				
3. Stairs / Ramps					3. Sanitation / Water				
4. Walkways									
5. Elevator Door Openings					11. PROGRAM / INFORMATION				
					1. Twice Daily Inspections				
5. <u>SCAFFOLDS</u>					2. Orientation: New Employee / Haz. Sub.			-	
1. Kallings & Kickboards 2. Tied to Building					3. Safety Meetings	+			
2. Fied to Building 3. Planks & Platforms					4. Required Signs Posted				
5. 1 Iunks & 1 Iunomis					12. OTHER (LISTS)				
6. ELECTRICAL				1	1. Safety Manual				
1. Lighting					2. MSDS Book				
2. Grounding					3. CAL-OSHA 200 Log (Posted Every February)				
3. Cords, Plugs & Receptacles									

Comments:

Title / Signature:

3/23/2012


#### DAILY PROJECT INSPECTION

Job #

Job Location/Name

Week Ending Month / Day / Year

*O* – No Corrective Action Required X – Corrective Action Required Т W THF Μ COMMENTS A. BASICS 1. Workers are wearing personal protective equipment 2.exits and stairways are clear 3.Construction material stored properly 4.Site debris removed 5.Nails bent or removed 6.Ladder condition and placement 7.Permanent & temporary rails 8.Cylinder storage 9.Hazardous material storage 10.Electrical Cords and grounding 11.Extinguishers in place where needed 12.Excavation / trenches 13.First aid kit is accessible & stocked 14.Required signs posted 15.Construction equipment **B. CRANES** 1.Crane certification 2.Load chart 3.Operator maintenance reports updated C. MANLIFT 1.Ramps, rails, phones & doors are maintained properly 2.Personnel stretcher stored on top of the man lift 3.Fire extinguisher in place 4.Weekly maintenance check reports **D. BACKHOES** 1.Back-up bell working 2.Wearing safety equipment 3.Personnel working with the backhoe a safe distance from the backhoe bucket at all times E. TRUCKS 1.Back-up bell working 2.Driver wearing safety equipment F. COMPRESSOR 1.Properly maintained 2. Air tools working properly 3.Personnel wearing correct safety equipment and have been instructed how to use the equipment 4.All air hose connectors are wired together G. SHORING / SCAFFOLDING 1.Railings & kick boards 2. Tied off / braced correctly 3.Planking is the correct size

3/23/2012

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#### First Last EQUIPMENT SAFETY INSPECTION CHECKLIST

Date: \_\_\_\_\_

Project: \_\_\_\_\_

Equipment:

 OK		Needs Repair
 OK		Needs Repair
 OK		Needs Repair
OK		Needs Repair
 OK		Needs Repair
	OK           OK	OK          OK          OK          OK          OK

#### **Other Items Checked:**

Oil level and leaks					
	 OK	 Needs Repair		Add	 Change
Hydraulic oil level and					
leaks	 OK	 Needs Repair		Add	 Change
Anti-freeze level and					
leaks	 OK	 Needs Repair		Add	 Change
Fuel level and leaks	0.11				
<b>D</b>	 OK	 Needs Repair		Add	 Change
First aid kit	 OK	 Needs Repair		Add	 Change
Repaired by:			_		

Checked by: \_\_\_\_\_

# PAGE/SECTION REFERENCE FROM SUBCONTRACTOR IIPP: C REVISED NEW 0 RECOMMENDED ACTION OR PROCEDURE APPROVED BY: DEPARTMENT: PAGE OF DATE: EQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT JOB TITLE (and number if applicable): POTENTIAL HAZARDS: REVIEWED BY: LOCATION: EQUIPMENT, TOOLS AND ALL FACILITIES INVOLVED: TITLE OF PERSON WHO DOES SUPERVISOR: JOB HAZARD ANALYSIS COMPANY ORGANIZATION: GENERAL INSTRUCTIONS: OPERATIONS SEQUENCE: ANALYSIS BY: JOB:

#### JOB HAZARD ANALYSIS

WEBCOR/OBAYASHI JOINT VENTURE Site Specific Safety Program Rev 4 3/23/2012

#### WELDING / CUTTING "HOT WORK" PERMIT

Permit # Date:		
Subcontractor:		
Floor: Area:	Roo	m:

#### CONDITIONS FOR PERFORMANCE OF THE WORK

- 1. A Designated Fire Watch shall be furnished by the subcontractor performing the work. The Fire Watch shall have no other assigned duties but to ensure a Safe environment in the area during and after the activity of welding, cutting, or open-flame operations.
- 2. The Fire Watch shall clear the work area, and ensure that it be kept free, of all combustible materials. In occupied buildings, the fire suppression system shall be in operation.
- 3. Fire-retardant tarpaulins are acceptable and shall be used where applicable.
- 4. All welding/cutting equipment shall be removed from the building daily. This provision applies to work performed in an existing, occupied portion of the facility.
- 5. The Fire Watch shall be equipped with appropriate personal protective equipment, such as eye protection, gloves, head protection, welder's jacket, etc.
- 6. Equipment shall be located so that exhaust fumes are naturally ventilated from the building. Where such locations are not possible, mechanical ventilation shall be provided by the subcontractor performing the work.
- 7. All oxygen/acetylene equipment shall be transported, used, and stored in strict compliance with WISHA Construction Safety Orders. A separate fire extinguisher (10 B: C minimum) is required at each oxygen/acetylene setup.
- 8. Appropriate fire extinguishers shall be kept in the work area while all work is in progress. Fire extinguishers are to be provided by the subcontractor performing the work as follows:

WORK AREA	FIRE EXTINGUISHER TYPE	NUMBER REQ'D
Equipment Spaces	ABC (20 lbs)	2
Other Spaces	ABC (20 lbs)	1

- 9. Welding/cutting shall not be performed until the area has been approved by the Fire Safety Manager.
- 10. Upon completion of the "Hot Work," the Fire Watch shall inspect the work area and ensure that there are no lingering sparks, smoldering materials, etc. The fire watch shall be maintained a minimum of ½ hour after work has been completed.

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- 11. The Fire Safety Manager shall be notified when the "Hot Work" is complete.
- 12. Permits are valid for a one (1) week period.

Subcontractor hereby agrees to perform the work in accordance with the requirements noted above.

Permit valid from	to
Comments/Special Requirements:	
Subcontractor's Representative:	Work Complete:
Fire Safety Manager:	Work Complete:

#### HEAT ILLNESS PREVENTION POLICY

#### Purpose

The purpose of Heat Illness Prevention Policy is to meet the requirements set forth in the Heat Illness Prevention Standard, Title 8, California Code of Regulations, Section 3395 and also to serve as a supplement to Webcor/Obayashi Joint Venture's Injury and Illness Prevention Program (IIPP). This information is intended and must be used in conjunction with the IIPP. The Heat Illness Prevention Policy establishes procedures and provides information which is necessary to ensure that Webcor/Obayashi Joint Venture's staff is knowledgeable in the prevention and recognition of heat illness to ensure their own safety and the safety of others.

#### **Procedures and Guidelines**

In compliance with Heat Illness Prevention Standard, Title 8 regulations, Webcor strives to provide a safe and healthful work environment. To do so the following Procedures are required for all employees of Webcor/Obayashi Joint Venture:

- Provide training to all employees by their supervisors. All trainings should be documented with an employee sign in sheet. Topics include:
  - Types of Heat Illness and their symptoms.
  - Environmental and personal risk Factors for Heat Illness.
  - Webcor/Obayashi Joint Venture's Heat Illness Prevention Policy.
  - The importance or drinking water frequently throughout the day.
  - The importance of reporting symptoms of Heat Illness to their employer/supervisor
  - The importance of allowing the body to adjust gradually to working in high heat.
  - Webcor Procedures for responding to Heat Illness symptoms.
  - Webcor/ Obayashi's Procedures for contacting emergency services.
  - Webcor/Obayashi Joint Venture's Procedures for emergency communication.
- Provide training to all Supervisors. Topics include:
  - All information to be provided to employees.
  - The procedures the supervisor is to follow in implementing this Policy.
  - The Procedures to follow when an employee's begins to show symptoms of heat illness.
- Webcor /Obayashi Joint Venture is to provide access to potable drinking water meeting the requirements of Sections 1524, 3363, and 3457 as applicable to all employees. Where it is not plumbed or otherwise continuously supplied, it shall be provided in sufficient quantity at the beginning of the work shift to provide one quart per employee per hour for drinking for the entire shift. Employers may begin the shift with smaller quantities of water if they have effective procedures for replenishment during the shift as needed to allow employees to drink one quart or more per hour. The frequent drinking of water shall be encouraged.
- Webcor/Obayashi Joint Venture is to provide access to an area with shade that is either open to the air or provided with ventilation or cooling for a period of no less than five minutes for employees suffering from heat illness or believing a preventative recovery period is needed. Such access to shade shall be permitted at all times.

• During the designated warmer months of the year (April through September) all jobsites are required to incorporate heat illness prevention and awareness training into the Tailgate Safety Meetings. Shade and plenty of water shall be provided in sufficient amount to each and every employee.

#### **Heat Illness Prevention**

Heat related illnesses are avoidable if the employees are trained and the right actions are taken before, during, and after working in either indoor or outdoor hot conditions. High temperatures, humidity, air velocity and radiant heat from the sun or a furnace can stress the body's ability to cool itself making heat illness a big concern during hot weather months. These would be considered environmental risk factors. Every employee whose job duties require them to work in the outdoors during summer months, are exposed to elevated heat conditions and therefore are susceptible to heat illness. The three major forms of heat illnesses are: **heat cramps**, **heat exhaustion**, and **heat stroke**. Heat stroke can be a life threatening condition. This document will outline those actions as well as describing the three major forms of heat illness, how to recognize them, and what an action to take to provide first aid before medical care is provided.

- Heat Cramps
  - Description:

Heat cramps are the most common type of heat related injury and probably have been experienced by nearly everyone at one time or another. Heat cramps are muscle spasms which usually affect the arms, legs, or stomach. Frequently they do not occur until sometime later after work, at night, or when relaxing. Heat cramps are caused by heavy sweating, especially when water is not replaced quickly enough. Although heat cramps can be quite painful; they usually don't result in permanent damage.

• Prevention/First Aid:

Drink electrolyte solutions such as Gatorade or plenty of water during the day and try eating more fruits such as bananas to help keep your body hydrated during hot weather. Call 911 and contact your supervisor immediately if the Person becomes ill.

- Heat Exhaustion
  - Description:

Heat exhaustion is more serious than heat cramps. It occurs when the body's internal temperature regulating system is overworked, but has not completely shut down. In heat exhaustion, the surface blood vessels and capillaries, which originally enlarged to cool the blood, collapse from loss of body fluids and necessary minerals. this happens when you do not drink enough fluids to replace what you are sweating away symptoms Include: Headache, heavy sweating, intense thirst, dizziness, fatigue, loss of coordination, nausea, impaired judgment, loss of appetite, hyperventilation, tingling in hands or feet, Anxiety, cool moist skin, weak and rapid pulse (120-200), and low to normal blood

#### • Prevention/First Aid:

The employee suffering these symptoms should be moved to a cool location such as a shaded area or air-conditioned building. Have them lie down with their feet slightly elevated. Loosen their clothing, apply cool, wet clothes or fan them. Have them drink water or electrolyte drinks. Try to cool them down, and have them checked by medical personnel. Victims of heat

exhaustion should avoid strenuous activity for at least a day, and they should continue to drink water to replace lost body fluids. Call 911 if the person becomes non-responsive, refuses water, vomits, or loses consciousness.

- Heat Stroke
  - Description:

Heat stroke is a life threatening illness with a high death rate. It occurs when the body has depleted its supply of water and salt, and the victim's core body temperature rises to deadly levels. A heat stroke victim may first suffer heat cramps and/or heat exhaustion before progressing into the heat stroke stage, but this is not always the case. It should be noted that, on the job, heat stroke is sometimes mistaken for a heart attack. It is therefore very important to be able to recognize the signs and symptoms of heat stroke and to check for them anytime an employee collapses while working in a hot environment. Symptoms of heat stroke include: A high body temperature (103 degrees F); a distinct absence of sweating (usually); hot red or flushed dry skin; rapid pulse; difficulty breathing; constricted pupils; any/all the signs or symptoms of heat exhaustion such as dizziness, headache, nausea, vomiting, or confusion, and possibly more severe systems including; bizarre behavior; and high blood pressure. Advance symptoms may be seizure or convulsions, collapse, loss of consciousness and a body temperature of over 108 degrees F.

• Prevention/First Aid:

It is vital to lower a heat stroke victim's body temperature. Quick actions can mean the difference between life and death. Pour water on them, fan them, or apply cold packs. Call 911 to get the person medical aid as soon as possible.

#### **Guidelines for Preventing Heat Illness**

- If you are coming back to work from an illness or an extended break or you are just starting to a job working in the heat, it is important to be aware that you are more vulnerable to heat stress until your body has time to adjust. Let your supervisor know you are not used to the heat. It takes about 5 7 days for your body to adjust.
- Drinking plenty of water frequently is vital to workers exposed to the heat. An individual may produce as much as 2 to 3 gallons of sweat per day. In order to replenish that fluid the worker should drink 3 to 4 cups of water every hour starting at the beginning of your shift.
- Taking your breaks in a cool shaded area and allowing time for recovery from the heat during the day are effective ways to avoid heat illness.
- Avoid or limit the use of alcohol and caffeine during periods of extreme heat. Both dehydrate the body.
- If your or a co-worker start to feel symptoms such as nausea, dizziness, weakness or unusual fatigue, let your supervisor know and rest in a cool shaded area. If symptoms persist or worsen seek immediate medical attention.
- Whenever possible ear clothing that provides protection from the sun but allows airflow to the body. Protect your head and shade your eyes if working outdoors.
- When working in the heat be sure to pay extra attention to your coworkers and be sure you know how to call for medical attention.

#### END OF SITE SPECIFIC SAFETY PLAN

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# EXHIBIT I



# TG06.0 CONCEPT SUMMARY SCHEDULE

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ect ID: 30100-00Rev-7	Date: 02-May-12
Project ID	Print Date

Activity Name

 APPURTENANCES

 ABOVE GROUND SUPERSTRUCTURE

 WEST ZONE (BUILDING LINES 1 - 10)

 CENTRAL ZONE (BUILDING LINES 10 - 25)

Schedule Layout Name: TG06.0 CONCEPT SUMMARY SCHEDULE



**Transbay Transit Center** 

# Webcor/Obayashi Joint Venture

# **Contractor Quality Control Program**

# for the

# **Transbay Transit Center Project**

January 4, 2011 Rev 1.0 March 9, 2011 Rev 2.0 March 31, 2012 Rev 3.0





### WEBCOR/OBAYASHI JOINT VENTURE CONTRACTORS QUALITY CONTROL PROGRAM TRANSBAY TRANSIT CENTER PROJECT

#### INDEX

- TAB 1: QUALITY CONTROL ORGANIZATION
- TAB 2: RESPONSIBILITIES & QUALIFICATIONS
- TAB 3: APPOINTMENTS
- TAB 4:
   SUBMITTAL MANAGEMENT & DOCUMENT CONTROL
- TAB 5: INSPECTION AND TESTING
- TAB 6:QUALITY CONTROL PROCESS
- TAB 7:NON-CONFORMANCE
- TAB 8: REPORTING PROCEDURES
- TAB 9: DEFINABLE FEATURES OF WORK
- TAB 10: TRAINING
- TAB 11: DESIGN CONTROL
- TAB 12: FORMS

This Webcor/Obayashi JV Contractors Quality Control Plan will be developed incrementally as the trade packages are awarded and trade subcontractors are brought on board. Each trade subcontractors plan will become part of the Webcor/Obayashi JV's overall Contractor's Quality Control Plan and will be submitted to the Transbay Joint Power Authority as they are received

# $1. QUALITY \ CONTROL \ OR GANIZATION$

- QUALITY CONTROL OVERVIEW
- DEFINITIONS
- ORGANIZATION CHART SHOWING LINES OF AUTHORITY



#### 1. QUALITY CONTROL OVERVIEW

#### **OVERVIEW**

Project quality is the responsibility of all members of the project team and starts at the highest level of management. This Quality Management Plan details the specific processes by which the Project's quality will be managed and forms the basis upon which Webcor/Obayashi JV will ensure that all quality requirements for the Transbay Transit Center are met. The Plan integrates the quality management process into the Webcor/Obayashi JV organizational structure and construction management systems. Key elements of the plan include:

- The commitment of the Webcor/Obayashi JV Senior management to delivering a project that meets the Transbay Transit Center quality standards.
- Accepted project specific construction management policies, procedures and tools for the control of project information and the management of the construction documents, submittals and the work of the trade subcontractors.
- A Webcor/Obayashi JV project-specific quality plan that meets the TJPA and FTA quality requirements
- Trade Subcontractor, site specific, quality plans that meet TJPA and FTA quality requirements
- Consistent CQC staff oversight- the Webcor/Obayashi JV CQC Mangers or the Trade Subcontractors CQC Managers will have a physical presence on site when work is in progress.

#### FEDERAL TRANSIT ADMINISTRATION GUIDELINES

The Webcor/Obayashi JV Contractors Quality Management Plan incorporates the fifteen elements of the Federal Transit Administrations Quality Assurance and Quality Control Guidelines as appropriate for Webcor/Obayashi's scope of work.

- 1. Management responsibility
- 2. Documented quality management system
- 3. Design control
- 4. Document control
- 5. Purchasing
- 6. Product identification and traceability
- 7. Process control

- 8. Inspection and testing
- 9. Inspection, measuring and test equipment
- 10. Inspection and test status
- 11. Non conformance
- 12. Corrective action
- 13. Quality records
- 14. Quality audits
- 15. Training



#### **DEFINITIONS:**

- Contractor Webcor/Obayashi Joint Venture.
- Coordination Meeting (aka. Meeting of Mutual Understanding) A meeting conducted by TJPA Representative held after the pre-construction conference and before the start of construction for each Trade Work Package, attended by the TJPA Representative, the TJPA QA Manager, W/O (and the W/O trade subcontractor) where a mutual understanding of the system details are developed including forms for recording control activities, testing and the administrative system of onsite and offsite work. (reference: Specification 01-1400, paragraph 1.7 A)
- **Corrective Action Plan -** A written document submitted by the Trade Subcontractor detailing the Trade Contractor's approach to correct an item of work that fails to conform to the project requirements.
- **Corrective Action Request** A written request from TJPA to develop a Corrective Action Plan for non-conforming work (TJPA form QA-09-01) that establishes a method for ensuring deficiencies in process or implementation adversely affecting quality are identified, cause determined, and an action plan to prevent recurrence is documented.
- **CQC Manager** The Webcor/Obayashi JV Manager who is responsible for managing the Contractor's CQC System.
- **CQC Manager's Monthly CQC Report -** A section of the Contractors monthly written report prepared and submitted by the CQC Manager which reports Trade Subcontractors monthly CQC activities.
- **CQC Plan** Webcor/Obayashi JV written quality management plan that meets the requirements of the TJPA Program QMS as appropriate for Webcor/Obayashi's JV scope of work and the means by which Webcor/Obayashi JV (the Contractor) and its Trade Subcontractors ensure project quality.
- **Daily CQC Report Log** A log of the Trade Subcontractors daily CQC reports, maintained by the W/O CQC Manager.
- **Definable Feature of Work (DFOW)** A unit of the work associated with the work of each specification section, bid package, trade subcontractor or trade contractor's individual discipline.
- Federal Transit Administration (FTA) An administration within the U.S. Department of Transportation that provides stewardship to support a variety of locally planned, constructed, and operated public transportation systems throughout the United States.
- **Initial Phase Checklist** A checklist prepared by the Trade Subcontractors CQC Manager for each Definable Feature of Work (DFOW) in the Initial work Phase per 01 14 00 1.9.C.
- Master Definable Feature of Work List The project list definable features of work for all trade subcontractors maintained by the Webcor/Obayashi JV CQC Manager.



- Non-conformance Report A written report submitted to the TJPA Representative to identify non-conforming: materials, in-process work activities and completed work.
- Phase 1: Preparatory Phase Led by the Trade Subcontractors CQC Manager and attended by the Webcor/Obayashi JV CQC Manager, the Contractor's Production Team, Trade Subcontractors Representatives, Inspectors, and TJPA representatives, this is the first of the three phases of control where all requirements of the work: drawings, specifications, submittals, RFI's, installation and coordination issues are reviewed before beginning any Definable Feature of Work (DFOW). This meeting builds the work on "paper" prior to the start of work in the field, and is an effort to build consensuses among the all parties on how the work will conform to the project requirements. The information and agreements developed in this meeting are transferred to the Initial Work Phase meeting.
- **Phase 2: Initial** Led by the Trade Subcontractors CQC Manager and attended by the Webcor/Obayashi JV CQC Manager, the Contractor's Production Team, Trade Subcontractors Representatives, Inspectors, and TJPA representatives is held immediately prior to the start of the work. Using the meeting minutes from the Preparatory Phase meeting, this meeting transfers the information and requirements and agreements to the crews performing the work.
- **Phase 3: Follow-up Phase** Led by the Trade Subcontractors CQC Manager along with the appropriate Trade Contractor's Superintendent(s)/Foremen, this third phase of control is an ongoing process held immediately after the work starts or a meaningful quantity of work is installed to confirm and document that the work is being installed as per the contract documents and per the Preparatory and Initial Phase agreements.
- **Preparatory Phase Checklist** A checklist prepared by the Trade Subcontractors CQC Manager for each Definable Feature of Work (DFOW) in the Preparatory Phase per 01 14 00 1.9.B.(See Tab 120 "Forms" Preparatory Phase Checklist).
- **Quality** Conformance to the requirements established by the contract documents.
- **Quality Inspection** An Inspection of the work performed as the work progresses or prior to calling for an Agency, Code or Special Inspection to confirm the work meets the requirements of the Contract Documents.
- **Quality Management --** Management of Quality control and quality assurance activities instituted to achieve the quality levels established by the contract documents.
- **Quality Management System Manual** Issued by URS for the Transbay Transit Center and provides specific requirements for Program implementation based upon the Program Quality Policy and the FTA Quality Assurance and Quality Control Guidelines and is the guide for all members of the Program Management Team to deliver a project that meets the highest quality standards (reference: Transbay Transit Center QMSM, Introduction, page 1).
- **Submittal Log** A written list indicating the status of all Submittals required by the Contract Documents, maintained by the Webcor/Obayashi Joint Venture production team.



- Technical Specifications Divisions 01 through 33 of the project specifications.
- **Three Phases of Control** The three meetings or actions that bring the Trade Subcontractors CQC Managers, Contractor's Production Team, Inspectors, TJPA representatives and/or field crews together to plan and implement project quality: The three phases of control include: The Preparatory Phase, Initial Phase and Follow-up Phase.
- TJPA Construction Management Oversight Manager: Turner Construction.
- **TJPA:** Transbay Transit Center Joint Powers Authority.
- **Trade Subcontractor CQC Manager** The Trade Subcontractor employee accepted by Webcor/Obayashi JV who is responsible for managing the Trade Subcontractor's CQC System, and reports to the Webcor/Obayashi JV CQC Manager.
- **Trade Subcontractor's CQC Plan** The Trade Subcontractors written quality management plan that meets the requirements of the TJPA Program QMS as appropriate for the Trade Subcontractors scope of work and is the means by which the Trade Subcontractors ensure project quality.
- **Trade Subcontractor's Definable Feature of Work List.** The list of definable features of the work prepared by the Trade Subcontractors and submitted for approval to the Webcor/Obayashi JV CQC Manager
- **Trade Subcontractors Daily Quality Control Report** The Trade Subcontractors Quality Manager's daily report that describes: the work completed, quality measures implemented, testing and inspections preformed, rework items identified, and deliveries received and asbuilt drawings updated. (See Tab 120 "Forms" Trade Subcontractors Daily Quality Control Report).





## 2. RESPONSIBILITIES AND QUALIFICATIONS

- DUTIES, RESPONSIBILITIES, AND AUTHORITIES OF CQC TEAM MEMBERS
- TRADE SUBCONTRACTOR DUTIES
- CQC MANAGER RESUME
- ALTERNATE CQC MANAGER RESUME



#### 2. QUALITY CONTROL RESPONSIBILITIES/ QUALIFICATIONS

#### **RESPONSIBILITIES**

Webcor/Obayashi JV will be responsible for implementing this Contractors Quality Control Plan and assuring that Trade Subcontractors prepare and implement trade package specific CQC Plans. Webcor /Obayashi JV will provide day to day oversight of the CQC System to assure Trade Subcontractor work conforms to the requirements of Transbay Transit Center Contract Documents and this Webcor/Obayashi JV CQC Plan.

Webcor/Obayashi JV will direct Trade Subcontractors to execute their CQC plans and maintain compliance with all project requirements as described in the Contract Documents. Contracts with Trade Subcontractors and Sub-tier Subcontractors shall include a requirement to comply with the provisions of this Plan, and to prepare and execute CQC plans appropriate for their scope of work. The Trade Subcontractors, Sub-tier Subcontractors and their Project Superintendents for this project are authorized to manage their own CQC Plans. All subcontractors, field personnel and their assigns that work at the site must conform to the requirements described in this CQC Plan and their trade package specific CQC Plans.

#### MANAGEMENT RESPONSIBILITY

Webcor/Obayashi JV fully integrates this quality management plan into the organizational structure and performance management systems of the project.

- Maintain and follow a documented Quality System consisting of a Site Specific Quality Manual with policies and procedures.
- Establish and implement project management procedures.
- Maintain Quality System documents and records.

#### PROJECT EXECUTIVE QUALITY RESPONSIBILITIES

The Project Executive of Webcor/Obayashi JV is the one person in the company ultimately responsible for quality. Regardless of other duties, quality responsibilities of the Project Executive include:

- Empower the Webcor/Obayashi JV Transbay Transit Center CQC Manager to perform the CQC duties described in the contract documents.
- Oversee the projects quality plan and objectives.



• Ensure the availability of necessary resources and information for effective operation of the CQC System.

#### WEBCOR/OBAYASHI JV CQC MANAGER DUTIES AND RESPONSIBILITIES

The CQC Manager, or his approved alternate, oversees the overall implementation of the Webcor /Obayashi JV Quality Control Plan. The CQC manager, when performing the duties of the CQC manager, will be independent of the "production organization". The CQC Manager will:

- During performance of the Work will have complete authority to take any action necessary to ensure conformance with the requirements of the Contract Documents. In the event of the CQC Managers absence, the Alternate CQC Manager must be present and will have the same authority as the CQC Manager. In the Alternate CQC Managers absence the Assistant CQC Manager must be present and will have the same authority as the CQC Manager.
- The Webcor/Obayashi CQC Manager, Alternate CQC Manager, Assistant CQC Manager will have a physical presence on site when work is in progress.
- Designate Alternate CQC Manager(s) and Assistant CQC Manager(s) to serve in the event of the CQC Managers absence.
- Review and approve the Trade Subcontractors CQC Plans prior to submittal to the TJPA for acceptance.
- Manage the development of the list of Definable Features of Work.
- Attend the Coordination Meeting for each Trade Work Package.
- Provide management with monthly CQC updates.
- Ensure Trade Subcontractor's application of Three Phases of Control for each Definable Feature of Work.
- Attend, or be represented by a Webcor/Obayashi JV representative, the Preparatory, Initial and Follow-up phase meetings.
- Stop work that does not comply with requirements of the Contract Documents, and direct removal and replacement of any defective work.
- Ensure that all Trade Subcontractor Work performed, on and off the construction site, conforms to requirements of the Contract Documents. Ensure that all materials and equipment comply with the requirements of the Contract Documents. Report any deficiencies and corrective action planned and taken.
- Ensure that all Trade Subcontractors CQC Plans are in conformance with the Webcor /Obayashi JV CQC plan and with the requirements of the Contract Documents.



- Ensure that all Trade Subcontractors certify their submittals for conformance with the requirements of the Contract Documents.
- Approve Webcor/Obayashi JV Daily Quality Control reports (see Form in Tab 12).
- Ensure that all Trade Subcontractors prepare Daily Quality Control reports.
- Maintain copies of all quality control documents.
- Support and facilitate QMS Audit process.

#### WEBCOR/OBAYASHI JV ALTERNATE CQC MANAGER DUTIES AND RESPONSIBILITIES

The Alternate CQC Manager reports to the CQC Manager and performs all duties of the CQC Manager when not on-site. The Alternate CQC manager, when performing the duties of the Alternate CQC Manager, is independent of the "production organization". The Alternate CQC Manager will:

- During performance of the Work will have complete authority to take any action necessary to ensure conformance with the requirements of the Contract Documents. In the event of the CQC Managers absence, the Alternate CQC Manager must be present and will have the same authority as the CQC Manager. In the Alternate CQC Managers absence the Assistant CQC Manager must be present and will have the same authority as the CQC Manager.
- The Webcor/Obayashi CQC Manager, Alternate CQC Manager, Assistant CQC Manager will have a physical presence on site when work is in progress.
- Review and approve the Trade Subcontractors CQC Plans prior to submittal to the TJPA for acceptance.
- Manage the development of the list of Definable Features of Work.
- Attend the Coordination Meeting for each Trade Work Package.
- Provide management with monthly CQC updates.
- Ensure Trade Subcontractor's application of Three Phases of Control for each Definable Feature of Work.
- Attend, or be represented by a Webcor/Obayashi JV representative, the Preparatory, Initial and Follow-up phase meetings.
- Stop work that does not comply with requirements of the Contract Documents, and direct removal and replacement of any defective work.
- Conduct quality inspections of Work performed to ensure compliance with requirements of the Contract Documents.



- Ensure that all Trade Subcontractor Work performed, on and off the construction site, conforms to requirements of the Contract Documents. Ensure that all materials and equipment comply with the requirements of the Contract Documents. Report any deficiencies and corrective action planned and taken.
- Ensure that all Trade Subcontractors CQC Plans are in conformance with the Webcor /Obayashi JV CQC plan and with the requirements of the Contract Documents.
- Ensure that all Trade Subcontractors certify their submittals for conformance with the requirements of the Contract Documents.
- Prepare or approve Daily Quality Control reports (see Form in Tab 12).
- Ensure that all Trade Subcontractors prepare Daily Quality Control reports.
- Maintain copies of all quality control documents.
- Support and facilitate QMS Audit process.

#### WEBCOR/OBAYASHI JV ASSISTANT CQC MANAGER DUTIES AND RESPONSIBILITIES

The Assistant CQC Manager reports to the CQC Manager and Alternate CQC Manager. The Assistant CQC Manager, when performing the duties of the Assistant CQC Manager, will be independent of the "production organization". The Assistant CQC Manager will:

- During performance of the Work will have complete authority to take any action necessary to ensure conformance with the requirements of the Contract Documents. In the event of the CQC Managers and the Alternate CQC Managers absence, the Assistant CQC Manager must be present and will have the same authority as the CQC Manager.
- The Webcor/Obayashi CQC Manager, Alternate CQC Manager, Assistant CQC Manager.
- Review and approve the Trade Subcontractors CQC Plans prior to submittal to the TJPA for acceptance.
- Attend the Coordination Meeting for each Trade Work Package.
- Ensure Trade Subcontractor's application of Three Phases of Control for each Definable Feature of Work.
- Stop work that does not comply with requirements of the Contract Documents, and direct removal and replacement of any defective work.
- Conduct quality inspections of Work performed to ensure compliance with requirements of the Contract Documents.



- Ensure that all Trade Subcontractor Work performed, on and off the construction site, conforms to requirements of the Contract Documents. Ensure that all materials and equipment comply with the requirements of the Contract Documents. Report any deficiencies and corrective action planned and taken.
- Prepare Daily Quality Control reports (see Form in Tab 12).
- Support and facilitate QMS Audit process.

#### TRADE SUBCONTRACTORS CQC MANAGER DUTIES/RESPONSIBILITIES:

The Trade Subcontractor CQC Manager reports to the Webcor /Obayashi JV CQC Manager and oversees the trade specific implementation of the quality control program and whose primary responsibility will be to implement the Trade Subcontractor's quality control plan. The Trade Subcontractor CQC manager will certify that the Trade Subcontractor's work is in compliance with the Contract Documents and complies with the Webcor/Obayashi Joint Venture Quality Control Plan and all quality control requirements contained in the Contract Documents, including specification section 01 14 00 Quality Control. The Trade Subcontractor CQC Manager will:

- Manage the Trade Subcontractors Quality Control Program on and off site.
- Submit a CQC Plan that meets the requirements of the Webcor/Obayashi CQC Plan, Specification 01 14 00 Quality Control and the TTC Quality Management System Manual
- The Trade Subcontractor CQC Manager or alternate will have a physical presence on site when work is in progress.
- Designate an Alternate Trade Subcontractor CQC Manager to serve in the event of the Trade Subcontractor CQC Managers absence.
- During performance of the Work will have complete authority to take any action necessary to ensure conformance with the requirements of the Contract Documents.
- Submit daily Quality Control Reports to the Webcor/Obayashi JV CQC Manager.
- Submit Preparatory and Initial Phase Checklists, along with Follow-up Phase documentation for each DFOW to the Webcor/Obayashi JV CQC Manager.
- Establish written procedures for Trade Subcontractor document control, submittal management and material procurement.
- Maintain and submit copies of all quality control documentation, certifications, and materials delivery receipts as required in the Contract Documents.
- Attend the Coordination meetings.



- Manage the Three Phases of Control process for each DFOW, including conducting the Preparatory, Initial and Follow-up phase meetings for each of the trade subcontractors DFOW.
- Immediately stop any work, for which they are responsible, that does not comply with requirements of the Contract Documents, and direct removal and replacement of any defective work.
- Conduct quality inspections of Work performed to ensure compliance with requirements of the Contract Documents.
- Ensure that all Work performed, on and off the construction site, and all materials and equipment conform to requirements of the Contract Documents. Report non-conformances and corrective action planned and taken.
- Remove any person from the Project that consistently fails to perform Work properly.
- Ensure that the Trade Subcontractors submittals conform to the requirements of the Contract Documents.
- Provide verification to the Webcor/Obayashi JV CQC Manager of Trade Subcontractors task completion prior to the work being inspected.
- Provide verification to the Webcor/Obayashi JV CQC Manager of Trade Subcontractors task completion prior to requesting final inspections.
- Facilitate inspections and tests.
- Cooperate with testing agency personnel.
- Provide access to the Work.
- Obtain and handle samples and equipment as defined in section 01 13 00 Submittals. Furnish storage and assistance as requested.
- Trade Subcontractor shall include within their quality assurance plan per Specification Section 01 16 00 1.3 Quality Assurance, procedures for full protection of Work and materials.
- Where required, deliver samples to testing agency.
- Take steps to ensure no portion of the work requiring testing or inspection is covered prior to the acceptance by authorized parties.
- Ensure that no testing or inspection is scheduled until all approvals for the work have been received. This includes welder's certifications, submittals, design/build engineering stamp and certification.
- Maintain as-built drawings per 01 17 20 Project As-Built Drawings.
- Support and facilitate QMS Audit process.



#### QUALIFIED SUBCONTRACTORS AND SUPPLIERS.

- As part of bid package development Webcor/Obayashi JV will prepare trade package specific subcontractor prequalification requirements. These prequalification's are submitted to, and reviewed by the TJPA. The pre-qualification requirements are then included in the project bidding manual.
- Prior to contract award Webcor/Obayashi JV verifies that all trade subcontractors and suppliers meet the project requirements as outlined in the project bidding manual and contract documents.



QUALIFICATIONS

#### **BOB GARCIA**

#### **Quality Manager**

#### EDUCATION AND BACKGROUND

As the Contractors Quality Control System Manager, Mr. Garcia has primary responsibility of managing the Contractors Quality Management System. His duties include drafting the project specific CQC plan and ensuring Trade Subcontractor compliance via implementation of specified process controls. He is the day to day interface between project production and quality management to assure the owner that the work conforms to the project requirements. He is responsible for documenting quality compliance and providing senior management with periodic quality reports.

Mr. Garcia graduated with a BA in Biology/Chemistry from San Jose State University in 1975. His 32 years of construction and quality management experience includes developing project specific and company-wide quality management programs for both private and public works construction projects. He has taken additional coursework on management leadership, financial and risk management, and exterior envelope systems.



#### RELEVANT QUALITY EXPERIENCE

Transbay Transit Center San Francisco, CA	2010-Present: Manager of CM/GC Quality Control System. Developed and implemented CM/GC Quality Management Program based upon the Federal Transit Administration's 15 Elements of Contractors Quality Control Guidelines, including construction process controls based upon NAVFAC/USAEC Three Phases of Control. The Transbay Transit Center Project in downtown San Francisco will transform transportation in California and stimulate the economy by building the "Grand Central of the West." As the largest approved public transportation project in the country, the project will replace the current Transbay Terminal at First and Mission streets in San Francisco with a modern regional transit hub connecting eight counties in the Bay Area and the State of California through nine transit systems: AC Transit, BART, Caltrain, Golden Gate Transit, Greyhound, MUNI, SamTrans, WestCAT and future High Speed Rail from San Francisco to Los Angeles. Additionally, it will extend Caltrain and California High Speed Rail underground from Caltrain's current terminus at 4th and King streets into the new downtown Transit Center and create a new neighborhood with homes, offices, parks and shops surrounding the new Transit Center.
Cleveland Clinic Abu Dhabi Hospital United Arab Emirates	<ul> <li>2010: Sixco/Samsung Joint Venture Document Control Manager- As part of the Quality Management effort, developed a sophisticated document management system which established the protocol for maintaining the conforming construction documents and document distribution system to assure that all project documents were current and only the most recent versions were immediately available to the construction team (Element 4: Document Control of the FTA Quality Control Guidelines). Documents controlled included over 18,000 drawing pages, 18 specification sections and 30,000+ shop drawings and drawing revisions for: structural steel, building curtain wall, mechanical, electrical, plumbing, fire life safety, medical gas systems and other hospital process systems.</li> <li>Cleveland Clinic Abu Dhabi is a state-of-the-art hospital that brings the most advanced medical services of diagnostic and treatment capabilities in the region. The clinic specializes in innovative technologies in surgery, imaging, telemedicine, and electronic medical record systems that are integrated into five institutes: Gastroenterology, Eye, Heart and Vascular, Neurological, and Respiratory and Critical Care. Total of 2,600,000 sf and 360 beds. \$1.7 billion.</li> </ul>



Turner Construction Co. Oakland, CA	2006-2009: Quality Control Manager for Turner Construction Company's Northern California Business Unit. Served as the manager for the Business Units Construction Defect Task Force and developed Quality Control procedures for the business unit and specific projects. Developed curriculum and conducted business unit quality training programs. Manager responsible for developing the Quality section of the Turner's (Corporate) Superintendent training for their web based "Turner University" (Element 15: Training of the FTA Quality Control Guidelines). Worked as a member of the committee to establish a new corporate quality program.
Lucille Packard Children's Hospital Palo Alto, CA	2009: Developed a Quality Control program for managing the installation of the building exterior envelope (Element 7: Process Control of the FTA Quality Control Guidelines).
Santa Clara Valley Specialty Center San Jose, CA	2004-2006: Senior Project Manager overseeing the implementation of a NAVFAC/UAEC based Quality Control Program for the Santa Clara County Valley Specialty Center Medical Office Building (Element 7: Process Control of the FTA Quality Control Guidelines).
	The Santa Clara Valley Specialty Center offers 243,000 sf and 190 exam rooms and facilities serving as an outpatient specialty clinic for ophthalmology, orthopedics, endocrinology, otolaryngology, surgical specialties, oncology/nuclear medicine, pharmacy, laboratory and imaging services. This is an OSHPD project. \$150 million.
Applied Materials Sunnyvale, CA	1995-1996: Developed and managed a construction clean room, quality construction protocol and final certification for a H6 Class 10 clean room.
	This project provided 435,000 sf of renovations including: seismic retrofit, new mechanical central plant, manufacturing clean rooms, tool fit-up, new offices, cafeteria and site upgrades for H-6 occupancy areas. \$80 million.
Midpeninsula Regional Open Space District Offices Los Altos, CA	1994: Construction and Quality Manager providing quality inspection services for the renovation of the District's 9,000 sf. headquarters.



Windward Construction Company Sunnyvale, CA

1979-1995: Managed and supervised a privately held construction company. Duties included development and implementation of the Corporate Quality Management procedures.

#### <u>RELEVANT PROJECT EXPERIENCE WHICH INCLUDED IMPLEMENTATION OF</u> <u>QUALITY CONTROL REQUIREMENTS</u>

Cypress Semiconductor San Jose, CA	Cypress Semiconductor corporate headquarters consists of a three-story steel frame building with Glass Fiber Reinforced Concrete. The build out comprises of offices, executive suite and boardroom, cafeteria, and an 11,000 sf auditorium that accommodates 1,600 persons. The 5,000 sf cafeteria features a full kitchen that serves up to 1,500 meals per day in addition to providing catering services for the entire campus. Additional building amenities include a hair salon, massage therapy center, and a fitness center that encompasses an aerobic area, free weights area, and shower facilities. \$62 million.
Guidant Corporation Menlo Park, CA	A medical device manufacturing facility that includes cGMP clean manufacturing, process and gas facilities, administrative offices, shipping, receiving and a cafeteria. 107,000 sf. \$5 million.
Novellus Systems Inc. San Jose, CA	A semiconductor applications lab and engineering facility, including a robotic wafer delivery system, central plant, co-generation, process gas delivery and waste abatement systems. 82,000 sf. \$65 million.
Mineta San Jose International Airport San Jose, CA	Temporary facilities and installation of 11 CTX9000 baggage screening machines at Terminals A and C for Boeing Corporation, involving SJIA airport operations, eleven national airlines and airport security to satisfy the federally mandated baggage screening program for the United States Government Transportation Security Agency (TSA). \$25 million.
ALZA Corporation Clean Zone Improvement Vacaville, CA	cGMP - Upgrades to an operating drug manufacturing facility to comply with European pharmaceutical manufacturing standards. \$15 million.



Lucille Packard Children's Hospital Palo Alto, CA	Lucille Packard Children's Hospital renovation included exterior façade renovation and an addition of 53 beds to surgery, oncology, and pediatric intensive care units. 80,000 sf. \$90 million.
Stanford Graduate School of Business Stanford, CA	A 360,000 sf new business school campus comprised of eight buildings around three quadrangles. The campus includes a 600-seat lecture hall, dining facilities, faculty and staff offices, a parking structure for 900 vehicles, and dedicated space for career management and executive education programs. Also included are collaborative hands-on learning and virtual communication classrooms, linking students from Stanford to other schools around the world. \$300 million.
Mills Peninsula Hospital Burlingame,CA	Mills Peninsula Hospital and Office Building Replacement was a 5-story above and one-story below grade general acute hospital project. Renovations included an addition of 241 beds, base isolation seismic safety, technology-ready facilities with medical/surgical patient care rooms equipped to accommodate higher acuity telemetry monitoring, emergency department, and a Helipad. \$618 million.
Midpeninsula Regional Open Space District Offices Los Altos, CA	Program Management for regional Ranger Facilities. Defined the facilities requirements and assisted in architect selection for two new ranger field offices and maintenance facilities. \$30,000.

#### CERTIFICATIONS AND PROFESSIONAL MEMBERSHIPS

US Navy/Army Corps of Engineers Quality/NAVFAC Certified OSHA 30 Hour Safety Program

ASHE Health Care Certified

LEAN/Last Planner Instructor



QUALIFICATIONS

#### LYNN KOWALLIS

#### **Quality Alternate**

#### EDUCATION AND BACKGROUND

As the Alternate Contractors Quality Control System Manager, Mr. Kowallis has primary responsibility to assisting the Quality Control System Manager and help implement the Contractors Quality Management System.

His duties include reporting to the CQC Manager and preform all duties of the CQC Manager when not on-site. Ensuring Trade Subcontractor compliance via implementation of specified process controls. He is to assist the day to day interface between project production and quality management to assure the owner that the work conforms to the project requirements. He is responsible the tracking of Quality Control documents for quality compliance and providing the Contractors Quality Control Manager with periodic quality reports.

Mr. Kowallis graduated with a Bachelor of Science in Construction Management from Utah Valley University in 2006. His 7 years of construction management experience includes supervising quality control testing, maintaining and reporting quality control reports and implementing the quality control process projects wide.



#### RELEVANT QUALITY EXPERIENCE

Transbay Transit Center San Francisco, CA	2012-Present: Alternate Manager of CM/GC Quality Control System. Assisted in the developed and implementation of the CM/GC Quality Management Program based upon the Federal Transit Administration's 15 Elements of Contractors Quality Control Guidelines, including construction process controls based upon NAVFAC/USAEC Three Phases of Control.
	The Transbay Transit Center Project in downtown San Francisco will transform transportation in California and stimulate the economy by building the "Grand Central of the West." As the largest approved public transportation project in the country, the project will replace the current Transbay Terminal at First and Mission streets in San Francisco with a modern regional transit hub connecting eight counties in the Bay Area and the State of California through nine transit systems: AC Transit, BART, Caltrain, Golden Gate Transit, Greyhound, MUNI, SamTrans, WestCAT and future High Speed Rail from San Francisco to Los Angeles. Additionally, it will extend Caltrain and California High Speed Rail underground from Caltrain's current terminus at 4th and King streets into the new downtown Transit Center and create a new neighborhood with homes, offices, parks and shops surrounding the new Transit Center.
Vantage Data Center Project Santa Clara, CA	<ul> <li>2011: Office Engineer for Hensel Phelps Construction Company. As part of the Quality Control effort, developed the specific Quality Control Plan for the project and help manage the quality control process though out the project. Prepared daily quality control reports and supervised quality control testing for the commissioning process. Reviewed mechanical, electrical, plumbing, fire life safety and building management systems drawings for quality and accuracy.</li> <li>Vantage Data Center is a LEED Platinum Certified Design-Build project with technological advancement in data centers. The Santa Clara campus has a 37 MW of effective IT power capacity. The data center uses a standard 3.0 MW module to meet data center requirements. Total of 93,000 sf.</li> </ul>


Minta San Jose International Airport San Jose, CA	2008-2011: Field Engineer/Office Engineer for Hensel Phelps Construction Company. Implemented the Quality control process for trade subcontractors and verified quality work was established on the project. Scheduled and conducted quality preparatory, initial and follow up meetings with trade subcontractors. Assisted the Quality Control Manager in reviewing drawings and specifications for quality assurance. Maintained project documents for the mechanical, electrical, plumbing, security, fire life safety and building management system drawings and distributed the updated revise set to the project team for quality assurance.
	The project elements include a new Terminal B and concourse with an upgraded baggage handling system and a total of 12 aircraft gates, Terminal A upgrades, a seven deck parking garage with a consolidated rental car center that has 3,000 spaces for all rental car operations and 350 public parking spaces. \$600 million.
Kaweah Delta District Hospital. Visalia, CA	2006-2008: Field Engineer for Hensel Phelps Construction Company. Coordinated and processed all the quality field inspections between trade subcontractors, OSHPD, and city inspectors. Reviewed quality control testing results for discrepancies and non- conformances. Prepared daily quality control field reports. Maintained the quality control process that was established in the Quality Control Plan.
	Kaweah Delta Hospital is a state-of-the-art hospital that has one of the top cardio vascular facilities in the nation. The facility specializes in Cardiac, Vascular, Orthopedics, Neurosurgery, OB/GYN, ENT, Ophthalmology and Plastic reconstructive work. Total 200,000 sf, 12 surgical rooms, 581 beds. \$106 million.
Residental Remodeling Orem, UT	2003-2004: Assistant Project Manager for Clawson Remodeling Inc. Assisted in the development of construction plans to meet code requirements and quality assurance.
Electrical Apprentice West Jordan, UT	2002: Electrical Apprentice for Kowallis Electric Incl. Installed quality electrical wiring commercial building and custom homes. Evaluated and studied electrical plans, specifications and code requirements for commercial building and residential homes.



## <u>RELEVANT PROJECT EXPERIENCE WHICH INCLUDED IMPLEMENTATION OF</u> <u>QUALITY CONTROL REQUIREMENTS</u>

Vantage Data Center Santa Clara, CA	Developed the specific Quality Control Plan for the project. Managed the quality control process though out the project. Prepared daily quality control reports. Supervised quality control inspections and testing for the commissioning process. Reviewed mechanical, electrical, plumbing, fire life safety and building management systems drawings for quality and accuracy.
Minta San Jose International Airport San Jose, CA	Implemented the Quality Control process for trade subcontractors. Assisted the Quality Control Manager in reviewing drawings and specifications for quality assurance. Distributed updated and revised drawings and specifications to the project team to implement quality assurance in the field.
Kaweah Delta District Hospital Visalia, CA	Coordinated the quality control process with all the quality control field inspections between trade subcontractors, OSHPD, and city inspectors. Reviewed quality control testing results for discrepancies and non- conformances. Prepared daily quality control field reports for client and project team. Maintained the quality control process that was established the Quality Control Plan.

## CERTIFICATIONS AND PROFESSIONAL MEMBERSHIPS

US Navy/Army Corps of Engineers Quality/NAVFAC Certified

## 3. WEBCOR/ OBAYASHI JV CQC MANAGER APPOINTMENT LETTER



## 3. QUALITY CONTROL MANAGER APPOINTMENT LETTER

To: Bob Garcia Quality Control Manager

From: Jes Pederson Executive Vice President Webcor/Obayashi Joint Venture

Date: January 4, 2011

Subject: Appointment of Quality Control Manager for Transbay Project

Please be advised that you are hereby appointed as Quality Control Manager for the Transbay Transit Center Project. Your responsibilities include managing and implementing the Webcor/Obayashi Joint Venture Project Quality Control Plan.

You are assigned the following responsibilities:

- Implementing provisions of the Webcor/Obayashi JV Quality Control Plan as it pertains to the contract Documents.
- Assuring that the Quality Control Plan is established and implemented by persons doing work that impacts quality.
- Assuring that the Quality Control Plan is maintained.
- Acting as Webcor/Obayashi JV liaison with parties outside of the company on matters relating to quality.
- Reporting to Senior Management on the performance of the Quality Control Plan, including needed improvements.
- Review of the quality control documents.
- Review of quality control records.
- Review of quality related contract submittals.
- Review of project inspection and quality control activities.
- Review of subcontractors quality control programs.
- Reporting to the TJPA representative on matters pertaining to quality.
- Reviewing and distributing subcontract quality control reports.

I grant you authority for carrying out the above responsibilities including:

- Stopping Work when continuing work my adversely affect quality or cover up a defect.
- To direct the removal an replacement of an nonconforming work or material by any subcontractor or supplier.

Executive Vice President signature and date: Tab 3 Page 1 of 1

for W/d W/O CQC Plan TTC Rev 1



## **ALTERNATE QUALITY CONTROL MANAGER APPOINTMENT LETTER**

To: Lynn Kowallis Alternate Quality Control Manager

From: Bob Garcia Quality Control Manager

Date: March 24, 2012

Subject: Appointment of Alternate Quality Control Manager for Transbay Project

Please be advised that you are hereby appointed as Alternate Quality Control Manager for the Transbay Transit Center Project. Your responsibilities include managing and implementing the Webcor/Obayashi Joint Venture Project Quality Control Plan.

You are assigned the following responsibilities:

- Implementing provisions of the Webcor/Obayashi JV Quality Control Plan as it pertains to the contract Documents.
- Assuring that the Quality Control Plan is established and implemented by persons doing work that impacts quality.
- Assuring that the Quality Control Plan is maintained.
- Acting as Webcor/Obayashi JV liaison with parties outside of the company on matters relating to quality.
- Reporting to Senior Management on the performance of the Quality Control Plan, including needed improvements.
- Review of the quality control documents.
- Review of quality control records.
- Review of quality related contract submittals.
- Review of project inspection and quality control activities.
- Review of subcontractors quality control programs.
- Reporting to the TJPA representative on matters pertaining to quality.
- Reviewing and distributing subcontract quality control reports.

I grant you authority for carrying out the above responsibilities including:

- Stopping Work when continuing work my adversely affect quality or cover up a defect.
- To direct the removal and replacement of nonconforming work or material by any subcontractor or supplier.

Bob Garcia

Quality Control Manager, Webcor/Obayashi J 3/22/2012 Signature and date:

## 4. SUBMITTAL MANAGEMENT AND DOCUMENT CONTROL



## 4. SUBMITTAL MANAGEMENT AND DOCUMENT CONTROL

## SUBMITTAL MANAGEMENT

The Submittal process is designed to assure that all material, assemblies, equipment and shop drawings meet the Transbay Transit Center project requirements and are approved by the TJPA prior to procurement and installation. The Submittal process is the means by which the Trade Subcontractors control product purchasing. This submittal schedule will be developed incrementally and additional submittals will be added as trade packages are awarded and subcontractors are brought on board. Trade subcontractors will submit their submittal schedules for approval, as required in the Division 00, 01 and technical specifications, prior to the start of work.

## DOCUMENT CONTROL

Webcor/Obayashi's Document Control process is the means by which information specific in the Contract Documents to be in Webcor/Obayashi's and the Trade Subcontractors control are logged, filed, and updated to assure that all relevant information meets the project requirements.

## SUBMITTAL MANAGEMENT AND DOCUMENT CONTROL PROCEDURES

The Webcor/Obayashi JV Document Control and Submittal management procedures are part of Webcor/Obayashi's Transbay Transit Center Policy and Procedures Guide. The relevant sections of that guide addressing submittal management and document control are listed below and are included in this section of the Webcor/Obayashi JV CQC Manual.

- 1. Submittals
- 2. Document control
- 3. File naming conventions
- 4. Filing archive
- 5. Transmittals
- 6. Document distribution matrix

- 7. Design documents
- 8. Master project document log
- 9. Updating drawings and specifications
- 10. Document set manager
- 11. CQC file structure



# Submittals

November 18, 2011

## Purpose

To obtain approval from the Architect/Engineer/Consultant for all materials, assemblies, equipment and shop drawing submittals required by the contract documents.

## **Policy**

To install materials, assemblies and equipment only after approval is obtained from the appropriate reviewing Architect/Engineer/Consultant responsible for the particular scope of work.

## Procedure

- Webcor/Obayashi and TJPA process submittals using two different types of project management software. Webcor/Obayashi uses CMiC and TJPA uses ConstructWare.
- In CMiC submittal packages contain submittals and all of the history of the submittal is tracked at the submittal level. The submittal package is simply the nest of the submittals that are attached to it.
- Submittals are transmitted to TJPA from Webcor/Obayashi via CMiC and ConstructWare.
  - The naming format of the PDF submittal is crucial for the transmission to be successful.
- Submittal Actions Status:

ACTION	STATUS
Received	Open
Sent	Submitted
Returned	No Exceptions Taken, Make Corrections Noted, Revise and Resubmit, or Rejected
Forwarded	Same as Returned Status

## Receive Submittal from Subcontractor - 0-5 days

Was it received on time? If not, have the department head notify the subcontractor that it was late. Is the submittal complete? If not, return the submittal to the subcontractor, transmittal shall include notification that the submittal is incomplete, give a date that the re-submittal is required, and notify them of their potential risk in missing the submittal date.

Once reviewed using the submittal process checklist and deemed complete, stamp, (All pages of shop drawings; front page only for product data), distribute to PM, QC and Supt. to review for compliance, and transmit to ownership.



# **Submittals**

November 18, 2011

## Design Team Review – 12 days

Design team will review the submittal. Each layer of review (Architect and Consultants) will stamp **ALL** pages and return to Webcor/Obayashi's document control manger.

## **Returned Submittal – 5days**

## Reviewed by Document Manager - Notify Author

Document Control will receive e-mail notification that the submittal has been reviewed in ConstructWare. Document Control will forward the e-mail notification along will all attachments to Author.

## PM Triage - Notification Sent to Subcontractors

## Revise & Re-Submit or Rejected

Return R&R or Rejected submittal to author subcontractor. PM will include in the transmittal a due date for re-submittal (5 days). Director will make a case-by-case determination on whether to send a preliminary submittal to other subcontractors for coordination.

## No Exceptions Taken & Make Corrections Noted

Email author subcontractor and all affected trade subcontractors the approved submittal. PM will include transmittal with the action required.

## Is there a Cost / Schedule Impact or Scope Change?

Subcontractors have 5 days from the returned date to respond with a cost or schedule impact.

## Written Notification to Owner, draft RFI to Capture Cost

Shop drawings, product data, and samples "are not contract documents" per our contract language. Therefore, any change in scope due to a submittal must be captured via RFI. Director should also send written notification to ownership of any scope change incurred from a returned Submittal.

## **Storing Approved Submittals**

Author of submittal will file all documents and correspondence within the storage folder and post the documents electronically.

Put approved electronic copy of submittal in the designated folder.



## SUBMITTAL PROCESS CHECKLIST

Submittal Package No.:	Date Received:
Submittal Name:	

- **D** Review each submittal to:
  - O Verify that the submittal's contents match the accompanying transmittal. Did we receive everything listed on the transmittal?
  - O Verify that the submittal's contents are complete per the submittal register. Important: submittal packages need to be complete and should include <u>all</u> information necessary for review. Partial submittals are to be rejected by W/O (if we don't the TJPA will).
  - O Verify that the contents of the submittal are in conformance with the technical specifications and other appropriate contract documents.
  - O Is the Submittal a Substitution?
    - □ No- Continue Processing Submittal
    - □ Yes -Reject submittals that are substitution requests- There is a separate process for substitutions.
  - O Verify that the trade subcontractor has checked and coordinated all dimensions, materials, field measurements, with the requirements of the Work and the Contract Documents.
  - O Verify that the submittal complies with the requirements of reference specifications –SFDPW, PG&E etc.
  - O Confirm that all professional certifications (stamp) w/license number and expiration date are provided and signed if required.
  - O Note any variations from the Contract requirements (if there are create an issue in CMiC)
  - O Address all questions raised or noted in the submittals; requests to verify dimensions, etc. If there are questions with the submittal:
    - Can the questions be answered by W/O?
    - Does an RFI need to be submitted?
    - Does an issue need to be created in CMiC?
    - o Identify who is responsible for answering the question
  - O Identify all affected and adjacent trades that can be potentially impacted by submittal. Develop an action plan to coordinate submittal information with ALL affected and adjacent trades.
  - O If the submittal is complete, stamp the first page of each item. If it is shop drawings, all sheets must be stamped.

Trade Scope Superintendent:	Date:
Trade Scope PM:	Date
CQC Manager:	Date:
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#### Project Office 175 Beale St San Francisco, CA 94105 Phone (415) 978-5700 Fax (415) 904-8119

Submittal #	Cycle	e Submittal Name	Submittal Package	From Company	To Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status
No Spec Section											
0402.001.00	1	Traffic Control Plan	0402.001.0	MSQUA902	SANDI612	8/26/11	9/14/11			0	Open
T00000-100000A08	1	Labor Rates	TG1901-028	TRANS500	TURNE361	5/05/11	5/23/11	5/26/11	6/01/11	3	Approved As Noted
TA0000-011300A01	1	Submittal Schedule	TG1901-006	TRANS500	TURNE361	12/07/10	12/23/10	12/20/10	12/20/10	-3	No Exceptions Taken
TA0000-011300A01	2	Submittal Schedule	TG1901-006	TRANS500	TURNE361	6/24/11	7/13/11	8/03/11	8/03/11	21	No Exceptions Taken
TA0000-C0001A01	1	301 Mission Wall Demolition Plan	TG1901-016	TRANS500	TURNE361	1/05/11	1/21/11	1/06/11	1/06/11	-15	Revise and Resubmit
TA0000-S0002A01	1	Hilti Hit-RE 500-SD	TG1901-022	TRANS500	TURNE361	2/25/11	3/15/11	3/02/11	3/02/11	-13	No Exceptions Taken
TA0000-S0002A02	1	Hilti Certification Cards	TG1901-022	TRANS500	TURNE361	3/08/11	3/24/11	3/21/11	3/23/11	-3	No Exceptions Taken
TA1010-S5000A01	1	Concrete Mix Design	TG1901-001	TRANS500	TURNE361	12/07/10	12/23/10	12/20/10	12/20/10	-3	Make Corrections Noted
TA1010-S5000A01	2	Concrete Mix Design	TG1901-001	TRANS500	TURNE361	1/25/11	2/10/11	2/03/11	2/04/11	-7	Make Corrections Noted
TA1010-S5000A02	1	Rebar Letter of Compliance	TG1901-001	TRANS500	TURNE361	12/07/10	12/23/10	12/20/10	12/20/10	-3	No Exceptions Taken
TA1010-S5000A03	1	Reinforcing Steel Shop Drawing	TG1901-001	TRANS500	TURNE361	1/25/11		2/03/11	2/04/11	0	No Exceptions Taken
TA1010-S5000A04	1	Welding Procedure Specification	TG1901-001	TRANS500	TURNE361	3/29/11	4/14/11	4/05/11	4/05/11	-9	No Exceptions Taken
TA1010-S5000A04	2	Welding Procedure Specification	TG1901-001	TRANS500	TURNE361	4/26/11	5/12/11	4/22/11	4/27/11	-20	No Exceptions Taken
TA1010-S5000A05	1	Concrete Mix Design (curbs)	TG1901-029	TRANS500	TURNE361	6/24/11	7/13/11	7/12/11	7/13/11	-1	For Record Only
TA1030-C0002A01	1	Waterproofing - Product Data	TG1901-019	TRANS500	TURNE361	5/18/11	6/06/11	6/10/11	6/13/11	4	Submitted
TA1030-C0002A02	1	Waterproofing - Samples	TG1901-019	TRANS500	TURNE361					0	Closed
TA1030-C0002A03	1	Waterproofing - Installer Certs	TG1901-019	TRANS500	TURNE361	5/18/11	6/06/11	6/10/11	6/13/11	4	Submitted
TA1030-C0002A04	1	Waterproofing - Shop Drawings	TG1901-019	TRANS500	TURNE361	5/18/11	6/06/11	6/10/11	6/13/11	4	Submitted
TA1030-C0002A05	1	Waterproofing - Flashing Shop Drawings	TG1901-019	TRANS500	TURNE361	5/18/11	6/06/11	6/10/11	6/13/11	4	Submitted
TA1030-C0002A07	1	Waterproofing - Sample of Warranty	TG1901-019	TRANS500	TURNE361	5/17/11	6/03/11	6/10/11	6/13/11	7	Approved As Noted
TA2010-315613A09	1	Corrective Action Plan for Sunken CDSM Solider Piles	TG0300-583	BALFO900	TURNE361	1/13/12	1/31/12	1/20/12	1/20/12	-11	Make Corrections Noted
TA2010-315613A09	2	Corrective Action Plan for Sunken CDSM Solider Piles	TG0300-583	BALFO900	TURNE361	2/01/12	2/17/12		2/15/12	0	Make Corrections Noted
TA2010-31561A10	1	CDSM Sand Pocket Corrective Action Plan	TG0300-583	BALFO900	TURNE361	1/13/12	1/31/12	1/20/12	1/20/12	-11	Make Corrections Noted
TA2010-31561A10	2	CDSM Sand Pocket Corrective Action Plan	TG0300-583	BALFO900	TURNE361	2/01/12	2/17/12		2/15/12	0	Make Corrections Noted
TA2010-31561A11	1	BSE - Corrective Action Plan CDSM Wall Beam #859	TG0300-584	BALFO900	TURNE361					0	Submitted
TA2010-31561A12	1	CDSM Wall Corrective Action Plans - Resplicing of Solider Piles								0	Open
TB2010-A6000A01	1	Sheet Metal Panel: Shop Drawings	TG1901-024	TRANS500	TURNE361	4/06/11	4/22/11	4/21/11	4/22/11	-1	No Exceptions Taken
TB2010-A6000A02	1	Stucco Product Data	TG1901-014	TRANS500	TURNE361	12/21/10	1/11/11	1/17/11	1/18/11	6	No Exceptions Taken



Submittal #	Cycle	Submittal Name	Submittal Package	From Company	To Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status
No Spec Section (c	ontinu	ed)									
TB2010-A6000A02	2	Stucco Product Data	TG1901-014	TRANS500	TURNE361	3/07/11	3/23/11	2/28/11	3/01/11	-23	No Exceptions Taken
TB2010-A6000A02	3	Stucco Product Data	TG1901-014	TRANS500	TURNE361	4/07/11	4/25/11	4/21/11	4/22/11	-4	No Exceptions Taken
TB2010-A6000A02	4	Stucco Product Data	TG1901-014	TRANS500	TURNE361	5/05/11	5/23/11	5/16/11	5/17/11	-7	No Exceptions Taken
TB2010-A6000A03	1	Stucco Color Sample	TG1901-014	TRANS500	TURNE361	12/21/10	1/11/11	1/17/11	1/18/11	6	No Exceptions Taken
TB2010-A6000A03	2	Stucco Color Sample	TG1901-014	TRANS500	TURNE361	3/07/11	3/23/11	2/28/11	3/01/11	-23	No Exceptions Taken
TB2010-A6000A03	3	Stucco Color Sample	TG1901-014	TRANS500	TURNE361	4/07/11	4/25/11	4/21/11	4/22/11	-4	No Exceptions Taken
TB2010-A6000A03	4	Stucco Color Sample	TG1901-014	TRANS500	TURNE361	5/05/11	5/23/11	5/16/11	5/17/11	-7	No Exceptions Taken
TB2010-A6000A04	1	Sheet Metal Panel: Product Data	TG1901-024	TRANS500	TURNE361	4/06/11	4/22/11	4/21/11	4/22/11	-1	No Exceptions Taken
TB2010-A6000A05	1	Sheet Metal Panel: Sample	TG1901-024	TRANS500	TURNE361	4/06/11	4/22/11	4/21/11	4/22/11	-1	No Exceptions Taken
TB2010-S0001A01	1	301 Mission Screen Wall - Wood Product Data (includes wood, weeps screed, "F" reveal molding, backer rod)	TG1901-010	TRANS500	TURNE361	12/17/10	1/07/11	1/06/11	1/06/11	-1	No Exceptions Taken
TB2010-S0001A01	2	301 Mission Screen Wall - Wood Product Data (includes wood, weeps screed, "F" reveal molding, backer rod)	TG1901-010	TRANS500	TURNE361	1/25/11	2/10/11	2/11/11	2/15/11	1	No Exceptions Taken
TB2010-S0001A01	3	301 Mission Screen Wall - Wood Product Data (includes wood, weeps screed, "F" reveal molding, backer rod)	TG1901-010	TRANS500	TURNE361	3/29/11	4/14/11	2/28/11	3/01/11	-45	No Exceptions Taken
TB2010-S0001A01	4	301 Mission Screen Wall - Wood Product Data (includes wood, weeps screed, "F" reveal molding, backer rod)	TG1901-010	TRANS500	TURNE361	3/29/11	4/14/11	4/13/11	4/13/11	-1	No Exceptions Taken
TB2010-S0001A02	1	Light Gauge Framing - Product Data	TG1901-011	TRANS500	TURNE361	12/17/10	1/07/11	1/06/11	1/06/11	-1	Make Corrections Noted
TB2010-S0001A02	2	Light Gauge Framing - Product Data	TG1901-011	TRANS500	TURNE361	1/25/11	2/10/11	2/11/11	2/15/11	1	Make Corrections Noted
TB2010-S0001A02	3	Light Gauge Framing - Product Data	TG1901-011	TRANS500	TURNE361	2/18/11	3/09/11	3/28/11	3/01/11	19	Make Corrections Noted
TB2010-S0001A03	1	Light Gauge Framing - Shop Drawings	TG1901-011	TRANS500	TURNE361	1/25/11	2/10/11	2/11/11	2/15/11	1	Make Corrections Noted
TB2010-S0001A03	2	Light Gauge Framing - Shop Drawings	TG1901-011	TRANS500	TURNE361	2/18/11	3/09/11	3/28/11	3/01/11	19	Make Corrections Noted
TB2010-S0001A05	1	301 Mission Screen Wall - Wood: Shop Drawings	TG1901-010	TRANS500	TURNE361	1/25/11	2/10/11	2/11/11	2/15/11	1	No Exceptions Taken
TB2010-S0001A05	2	301 Mission Screen Wall - Wood: Shop Drawings	TG1901-010	TRANS500	TURNE361	2/18/11	3/09/11	2/28/11	3/01/11	-9	No Exceptions Taken
TB2010-S0001A06	1	Structural Steel Welding Certificates	TG1901-002	TRANS500	TURNE361	1/25/11	2/10/11	2/04/11	2/04/11	-6	No Exceptions Taken
TB2010-S0001A07	1	Structural Steel Welding Procedure Specifications (WPS)	TG1901-025	TRANS500	TURNE361	4/12/11	4/28/11	4/22/11	4/27/11	-6	Make Corrections Noted
TB2010-S0001A08	1	Structural Steel Mill Certificates	TG1901-026	TRANS500	TURNE361	4/13/11	4/29/11	5/05/11	5/06/11	6	No Exceptions Taken
TB2010-S0001A09	1	Steel Plate Mill Certificates	TG1901-026	TRANS500	TURNE361	4/13/11	4/29/11	5/05/11	5/06/11	6	No Exceptions Taken
TB2010-S0001A10	1	Anchor Bolt Mill Certificates	TG1901-026	TRANS500	TURNE361	4/13/11	4/29/11	5/05/11	5/06/11	6	No Exceptions Taken



Submittal #	Cycle	e Submittai Name	Package	Company	Company	Date Sent	Date Due	Date Returned	to Sub	Days Late	Status
No Spec Section (c	ontinu	led)									
TB2010-S0002A01	1	301 Mission Screen Wall - Insulation Separation Tape	TG1901-010	TRANS500	TURNE361	3/29/11	4/14/11	4/13/11	4/13/11	-1	No Exceptions Taken
TB2010-S0002A02	1	301 Mission Screen Wall - Stainless Steel Fasteners	TG1901-010	TRANS500	TURNE361	3/29/11	4/14/11	4/13/11	4/13/11	-1	No Exceptions Taken
TB2010-S0002A03	1	301 Mission Screen Wall - SASM (Self Adhering Sheet Membrane)	TG1901-027	TRANS500	TURNE361	4/29/11	5/17/11	5/05/11	5/06/11	-12	Make Corrections Noted
TB2010-S5000A01	1	Structural Steel Shop Drawings	TG1901-002	TRANS500	TURNE361	12/07/10	12/23/10	12/20/10	12/20/10	-3	Make Corrections Noted
TB2010-S5000A01	2	Structural Steel Shop Drawings	TG1901-002	TRANS500	TURNE361	1/25/11	2/10/11	2/04/11	2/04/11	-6	Make Corrections Noted
TB2010-S5000A02	1	301 Mission Screen Wall - Stainless Steel Anchor Bolts	TG1901-010	TRANS500	TURNE361	3/29/11	4/14/11	4/13/11	4/13/11	-1	No Exceptions Taken
TB2010-S5000A03	1	Grout Mix Design and Material: Product Data	TG1901-023	TRANS500	TURNE361	3/25/11	4/12/11	3/30/11	3/31/11	-13	No Exceptions Taken
TB2010-S5000A03	2	Grout Mix Design and Material: Product Data	TG1901-023	TRANS500	TURNE361	3/29/11	4/14/11	3/30/11	3/31/11	-15	No Exceptions Taken
TB2010-S5000A04	1	Narrative of Grouting Procedure	TG1901-023	TRANS500	TURNE361	3/25/11	4/12/11	3/30/11	3/31/11	-13	Make Corrections Noted
TB2010-S5000A04	2	Narrative of Grouting Procedure	TG1901-023	TRANS500	TURNE361	3/29/11	4/14/11	3/30/11	3/31/11	-15	Make Corrections Noted
TB2010-S5000A05	1	Qualifications and Resume	TG1901-023	TRANS500	TURNE361	3/25/11	4/12/11	3/30/11	3/31/11	-13	No Exceptions Taken
TB2010-S5000A05	2	Qualifications and Resume	TG1901-023	TRANS500	TURNE361	3/29/11	4/14/11	3/30/11	3/31/11	-15	No Exceptions Taken
TB2010-S5000A06	1	301 Mission Screen Wall - Stainless Steel Anchor Bolts - Shop Drawing	TG1901-010	TRANS500	TRANS500	4/13/11	4/29/11	4/13/11	4/13/11	-16	No Exceptions Taken
TC3010-A5000A01	1	Paint Product Data	TG1901-012	TRANS500	TURNE361	12/21/10	1/11/11	1/14/11	1/18/11	3	No Exceptions Taken
TC3010-A5000A01	2	Paint Product Data	TG1901-012	TRANS500	TURNE361	3/07/11	3/23/11	3/21/11	3/23/11	-2	No Exceptions Taken
TC3010-A5000A02	1	Paint Color Sample	TG1901-012	TRANS500	TURNE361	12/21/10	1/11/11	1/14/11	1/18/11	3	No Exceptions Taken
TC3010-A5000A02	2	Paint Color Sample	TG1901-012	TRANS500	TURNE361	3/07/11	3/23/11	3/21/11	3/23/11	-2	No Exceptions Taken
TC3010-A5000A05	1	Aluminum Panel Shop Drawings	TG1901-013	TRANS500	TURNE361	1/25/11	2/10/11	2/22/11	2/22/11	12	Make Corrections Noted
TC3010-A5000A05	2	Aluminum Panel Shop Drawings	TG1901-013	TRANS500	TURNE361	4/07/11	4/25/11	4/21/11	4/22/11	-4	Make Corrections Noted
TC3010-A6000A01	1	Stone Color Sample for the Wall	TG1901-004	TRANS500	TURNE361	12/07/10	12/23/10	12/20/10	12/20/10	-3	No Exceptions Taken
TC3010-A6000A02	1	Stone Adhesive	TG1901-004	TRANS500	TURNE361	12/07/10	12/23/10	12/20/10	12/20/10	-3	No Exceptions Taken
TC3010-A6000A02	2	Stone Adhesive	TG1901-004	TRANS500	TURNE361	2/16/11	3/07/11	2/28/11	3/01/11	-7	No Exceptions Taken
TC3010-A6000A02	3	Stone Adhesive	TG1901-004	TRANS500	TURNE361	3/16/11	4/01/11	3/30/11	3/30/11	-2	No Exceptions Taken
TC3010-A6000A03	1	Aluminum Panel Product Data	TG1901-013	TRANS500	TURNE361	1/25/11	2/10/11	2/22/11	2/22/11	12	Make Corrections Noted
TC3010-A6000A04	1	Aluminum Panel Sample	TG1901-013	TRANS500	TURNE361	1/25/11	2/10/11	2/22/11	2/22/11	12	Make Corrections Noted
TC3010-A6000A04	2	Aluminum Panel Sample	TG1901-013	TRANS500	TURNE361	2/24/11	3/14/11	3/02/11	3/02/11	-12	Make Corrections Noted



Submittal #	Cycle	e Submittal Name	Submittal Package	From Company	Io Company	Date Sent	Date Due	Date Returned	to Sub	Days Late	Status
No Spec Section (c	ontinu	led)									
TC3010-A6000A05	1	Grout Color Samples for joints between stone	TG1901-004	TRANS500	TURNE361	3/16/11	4/01/11	3/30/11	3/30/11	-2	Make Corrections Noted
TC3010-A6000A06	1	Waterproofing membrane behind stone	TG1901-004	TRANS500	TURNE361	3/16/11	4/01/11	3/30/11	3/30/11	-2	No Exceptions Taken
TG0501-001	1	Schedule of Values	TG0501-001	CHAUD729	TURNE361					0	Make Corrections Noted
TG0501-001	2	Schedule of Values	TG0501-001	CHAUD729	TURNE361	8/30/11	9/16/11	9/14/11	9/14/11	-2	Make Corrections Noted
TG0502-001	1	Schedule of Values	TG0502-001	BASSE606	TURNE361					0	Make Corrections Noted
TG0502-001	2	Schedule of Values	TG0502-001	BASSE606	TURNE361					0	Make Corrections Noted
TG0502-001	3	Schedule of Values	TG0502-001	BASSE606	TURNE361	8/30/11	9/16/11	9/14/11	9/14/11	-2	Make Corrections Noted
TG0502-001	4	Schedule of Values	TG0502-001	BASSE606	TURNE361	9/14/11	9/30/11	10/05/11	10/05/11	5	Make Corrections Noted
TG0507-001	1	Schedule of Values	TG0507-001	CLIPP580	TURNE361					0	Make Corrections Noted
TG0507-001	2	Schedule of Values	TG0507-001	CLIPP580	TURNE361	8/30/11	9/16/11	9/14/11	9/14/11	-2	Make Corrections Noted
TG2010-C0001A01	1	301 Mission - Asphalt Pavers Product Data	TG1901-017	TRANS500	TURNE361	1/11/11	1/27/11	1/27/11	2/08/11	0	Make Corrections Noted
TG2010-C0001A02	1	301 Mission - Asphalt Paver Samples	TG1901-017	TRANS500	TURNE361	1/11/11	1/27/11	1/27/11	2/08/11	0	No Exceptions Taken
TG2010-C0001A03	1	301 Mission - Asphalt Paver Mastic Product Data	TG1901-017	TRANS500	TURNE361	1/11/11	1/27/11	1/27/11	2/08/11	0	Make Corrections Noted
TG2040-A0000A01	1	Site Logistics Plan	TG1901-005	TRANS500	TURNE361	12/07/10	12/23/10	12/13/10	12/16/10	-10	No Exceptions Taken
TG2040-C2000A01	1	Temporary Barrier	TG1901-003	TRANS500	TURNE361	12/07/10	12/23/10	12/13/10	12/16/10	-10	No Exceptions Taken
TG2040-C2000A02	1	Temporary Chainlink Fence	TG1901-003	TRANS500	TURNE361	12/07/10	12/23/10	12/13/10	12/16/10	-10	No Exceptions Taken
TG2040-S0001A01	1	Concrete Shop Drawing	TG1901-001	TRANS500	TURNE361	1/25/11	2/10/11	2/03/11	2/04/11	-7	Make Corrections Noted
TG2040-S0001A01	2	Concrete Shop Drawing	TG1901-001	TRANS500	TURNE361	2/24/11	3/14/11	3/14/11	3/15/11	0	Make Corrections Noted
TG4010-015313A02	1	PG&E Phase II Utilities at Fremont St.	TG0300-903	BALFO900	TURNE361	1/04/12	1/20/12	1/06/12	1/04/12	-14	Make Corrections Noted
TG4010-015313A02	2	PG&E Phase II Utilities at Fremont St.	TG0300-903	BALFO900	TURNE361	1/06/12	1/24/12	1/30/12	1/30/12	6	Make Corrections Noted
TZ1010-000000A07	1	Injury and Illness Prevention Plan	TG0300-111	BALFO900	TURNE361	3/23/11	4/08/11	3/29/11	3/25/11	-10	For Record Only
TZ1010-000000A07	2	Injury and Illness Prevention Plan	TG0300-111	BALFO900	TURNE361	4/06/11	4/22/11	4/07/11	4/07/11	-15	For Record Only
TZ1010-000000A08	1	Site Logistics - General Plan	TG0300-021	BALFO900	TURNE361	3/02/11	3/18/11	3/10/11	3/10/11	-8	Void
TZ1010-000000A08	2	Site Logistics - General Plan	TG0300-021	BALFO900	TURNE361		3/03/11	3/10/11	3/10/11	7	Void
TZ1010-000000A09	1	Site Logistics - Temporary Lighting Plan	TG0300-030	BALFO900	TURNE361	7/13/11	7/29/11	7/15/11	7/15/11	-14	For Record Only
TZ1010-000000A09	2	Site Logistics - Temporary Lighting Plan	TG0300-030	BALFO900	TURNE361	7/15/11	8/02/11	8/03/11	8/03/11	1	For Record Only



Submittal #	Cycle	e Submittal Name	Submittal Package	From Company	To Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status
No Spec Section (continued)											
TZ1010-000000A10	1	Site Logistics - Access Plan	TG0300-040	BALFO900	TURNE361	3/02/11	3/18/11	3/10/11	3/10/11	-8	Void
TZ1010-000000A10	2	Site Logistics - Access Plan	TG0300-040	BALFO900	TURNE361		3/10/11	3/10/11	3/10/11	0	Void
TZ1010-000000A11	1	Site Logistics - Perimeter Barrier/Fence Plan	TG0300-050	BALFO900	TURNE361	3/02/11	3/18/11	3/10/11	3/10/11	-8	Void
TZ1010-000000A11	2	Site Logistics - Perimeter Barrier/Fence Plan	TG0300-050	BALFO900	TURNE361		3/10/11	3/10/11	3/10/11	0	Void
TZ1030-011570A11	1	Traffic Control Plans PG&E Phase II at Fremont	TG0300-177	BALFO900	SANDI612					0	Not Reviewed
TZ1030-015313A19	1	NOT USED			TURNE361		7/11/11			0	Not Used
TZ1030-015313A20	1	NOT USED			TURNE361		7/11/11			0	Not Used
TZ1030-015313A28	1	BSE - Access Trustle Material Product Data	TG0300-282	BALFO900	TURNE361	2/23/12	3/12/12			0	For Record Only
TZ1030-015313A29	1	BSE - Trestle Pile Material Product Data	TG0300-283	BALFO900	TURNE361					0	Open
TZ1030-315500A16	1	Internal Bracing - Erection Drawings (Shop)	TG0300-551	BALFO900	TURNE361	1/26/12	2/13/12	2/23/12	2/23/12	10	For Record Only
UA0000-000610F02	1	M Squared P&P Bond	TG0402-000	MSQUA902	TURNE361	10/10/11	10/26/11	10/12/11	10/12/11	-14	For Record Only
UA0000-000805F02	1	M Squared - Insurance Certificates	TG0402-000	MSQUA902	TURNE361	10/10/11	10/26/11	10/12/11	10/12/11	-14	For Record Only
UA0000-011026	1	4.2 Schedule of Values	TG0402-025	MSQUA902	TURNE361	11/11/11	12/01/11	11/29/11	11/29/11	-2	Make Corrections Noted
UA0000-011340F02	1	TG04.2 Signed Agreement	TG0402-000	MSQUA902	TURNE361	10/10/11	10/26/11	10/12/11	10/12/11	-14	For Record Only
UA0000-011720A01	1	As Built - U-3007	TG0405-055	TRINE814	TURNE361	11/11/11	12/01/11	1/12/12	1/13/12	42	No Exceptions Taken
UA0000-011720A02	1	As Built - U-3008	TG0405-055	TRINE814	TURNE361	11/11/11	12/01/11	1/12/12	1/13/12	42	No Exceptions Taken
UA0000-011720A03	1	As Built - U-3009	TG0405-055	TRINE814	TURNE361	11/11/11	12/01/11	1/12/12	1/13/12	42	No Exceptions Taken
UA0000-011720A04	1	As Built - U-3021	TG0405-055	TRINE814	TURNE361	11/11/11	12/01/11	1/12/12	1/13/12	42	No Exceptions Taken
UA0000-011720A05	1	As Built - U-3023	TG0405-055	TRINE814	TURNE361	11/11/11	12/01/11	1/12/12	1/13/12	42	No Exceptions Taken
UA0000-011720A06	1	As Built - U-3031	TG0405-055	TRINE814	TURNE361	11/11/11	12/01/11	1/12/12	1/13/12	42	No Exceptions Taken
UA0000-011720A07	1	As Built - U-3032	TG0405-055	TRINE814	TURNE361	11/11/11	12/01/11	1/12/12	1/13/12	42	No Exceptions Taken
UA0000-011720A08	1	As Built - U-3033	TG0405-055	TRINE814	TURNE361	11/11/11	12/01/11	1/12/12	1/13/12	42	No Exceptions Taken
UA0000-011720A09	1	As Built - U-3107	TG0405-055	TRINE814	TURNE361	11/11/11	12/01/11	1/12/12	1/13/12	42	No Exceptions Taken
UA0000-011720A10	1	As Built - U-3108	TG0405-055	TRINE814	TURNE361	11/11/11	12/01/11	1/12/12	1/13/12	42	No Exceptions Taken
UA0000-011720A11	1	As Built - U-3109	TG0405-055	TRINE814	TURNE361	11/11/11	12/01/11	1/12/12	1/13/12	42	No Exceptions Taken
UA0000-011720A12	1	As Built - U-3201	TG0405-055	TRINE814	TURNE361	11/11/11	12/01/11	1/12/12	1/13/12	42	No Exceptions Taken
UA0000-011720A13	1	As Built - U-3407	TG0405-055	TRINE814	TURNE361	11/11/11	12/01/11	1/12/12	1/13/12	42	No Exceptions Taken
UA0000-011720A14	1	As Built - U-3408	TG0405-055	TRINE814	TURNE361	11/11/11	12/01/11	1/12/12	1/13/12	42	No Exceptions Taken
UA0000-011720A15	1	As Built - U-3409	TG0405-055	TRINE814	TURNE361	11/11/11	12/01/11	1/12/12	1/13/12	42	No Exceptions Taken
UA0000-011720A16	1	As Built - U-3410	TG0405-055	TRINE814	TURNE361	11/11/11	12/01/11	1/12/12	1/13/12	42	No Exceptions Taken
UA0000-011720A17	1	As Built - U-3010	TG0434-031	MSQUA902	TURNE361	3/01/12	3/19/12	3/12/12	3/12/12	-7	Revise and Resubmit



Submittal #	Cycle	e Submittal Name	Submittal Package	From Company	To Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status
No Spec Section (c	ontinu	led)									
UA0000-011720A18	1	As Built - U-3011	TG0434-031	MSQUA902	TURNE361	3/01/12	3/19/12	3/12/12	3/12/12	-7	Revise and Resubmit
UA0000-011720A19	1	As Built - U-3012	TG0434-031	MSQUA902	TURNE361	3/01/12	3/19/12	3/12/12	3/12/12	-7	Revise and Resubmit
UA0000-011720A20	1	As Built - U-3110	TG0434-031	MSQUA902	TURNE361	3/01/12	3/19/12	3/12/12	3/12/12	-7	Revise and Resubmit
UA0000-011720A21	1	As Built - U-3111	TG0434-031	MSQUA902	TURNE361	3/01/12	3/19/12	3/12/12	3/12/12	-7	Revise and Resubmit
UA0000-011720A22	1	As Built - U-3112	TG0434-031	MSQUA902	TURNE361	3/01/12	3/19/12	3/12/12	3/12/12	-7	Revise and Resubmit
UA0000-011720A23	1	As Built - U-3116	TG0434-031	MSQUA902	TURNE361	3/01/12	3/19/12	3/12/12	3/12/12	-7	Revise and Resubmit
UA0000-011720A24	1	As Built - U-3117	TG0434-031	MSQUA902	TURNE361	3/01/12	3/19/12	3/12/12	3/12/12	-7	Revise and Resubmit
UA0000-011720A25	1	As Built - U-3118	TG0434-031	MSQUA902	TURNE361	3/01/12	3/19/12	3/12/12	3/12/12	-7	Revise and Resubmit
UA0000-011720A26	1	As Built - U-3119	TG0434-031	MSQUA902	TURNE361	3/01/12	3/19/12	3/12/12	3/12/12	-7	Revise and Resubmit
UA0000-011720A27	1	As Built - U-3120	TG0434-031	MSQUA902	TURNE361	3/01/12	3/19/12	3/12/12	3/12/12	-7	Revise and Resubmit
UA0000-011720A28	1	As Built - U-3124	TG0434-031	MSQUA902	TURNE361	3/01/12	3/19/12	3/12/12	3/12/12	-7	Revise and Resubmit
UA0000-011720A29	1	As Built - U-3125	TG0434-031	MSQUA902	TURNE361	3/01/12	3/19/12	3/12/12	3/12/12	-7	Revise and Resubmit
UA0000-011720A30	1	As Built - U-3012	TG0401-011	MSQUA902	TURNE361	3/01/12	3/20/12	3/08/12	3/08/12	-12	Revise and Resubmit
UA0000-011720A31	1	As Built - U-3013	TG0401-011	MSQUA902	TURNE361	3/01/12	3/19/12	3/08/12	3/08/12	-11	Revise and Resubmit
UA0000-011720A32	1	As Built - U-3022	TG0401-011	MSQUA902	TURNE361	3/01/12	3/19/12	3/08/12	3/08/12	-11	Revise and Resubmit
UA0000-011720A33	1	As Built - U-3112	TG0401-011	MSQUA902	TURNE361	3/01/12	3/19/12	3/08/12	3/08/12	-11	Revise and Resubmit
UA0000-011720A34	1	As Built - U-3113	TG0401-011	MSQUA902	TURNE361	3/01/12	3/19/12	3/08/12	3/08/12	-11	Revise and Resubmit
UA0000-011740A01	1	Warranties	TG0405-056	TRINE814	TURNE361	11/11/11	12/01/11	11/15/11	11/15/11	-16	Submitted
UA0000-011740A01	2	Warranties	TG0405-056	TRINE814	TURNE361	11/18/11	12/08/11			0	Submitted
UG1020-020630E01	1	AWSS Potholing Plan	TG0402-022	MSQUA902	TURNE361	9/21/11	10/07/11	10/12/11	10/12/11	5	Make Corrections Noted
UG1020-020630E01	2	AWSS Potholing Plan	TG0402-022	MSQUA902	TURNE361	10/24/11	11/09/11	10/27/11	10/27/11	-13	Make Corrections Noted
UG1040-011350A01	1	Hazmat Environmental Health & Safety Plan	TG0405-020	TRINE814	TURNE361	1/13/11	1/31/11	1/26/11	1/26/11	-5	Not Reviewed
UG1040-011350A02	1	Contaminated & Hazardous Soil Excavation Plan	TG0405-021	TRINE814	TURNE361		11/19/10			0	Closed
UG3010-020630A01	1	AWSS Pothole Findings Location 1	TG0402-024	MSQUA902	TURNE361	11/04/11	11/22/11	2/13/12	2/13/12	83	Make Corrections Noted
UG3010-02530B01	1	M Squared - Dewatering Plan	TG0402-020	MSQUA902	TURNE361	11/22/11	12/12/11	11/22/11	11/22/11	-20	Make Corrections Noted
UG3010-02630A02	1	AWSS Pothole Findings Second St to First St	TG0402-024	MSQUA902	TURNE361	2/13/12	2/29/12	2/29/12	2/29/12	0	For Record Only
UG3010-027230C11	1	AWSS Castings-Foundry	TG0402-011	MSQUA902	TURNE361	8/08/11	8/24/11	8/24/11	8/24/11	0	No Exceptions Taken
UG3010-027230C11	2	AWSS Castings-Foundry	TG0402-011	MSQUA902	TURNE361	2/03/12	2/21/12	8/22/11	8/22/11	-183	No Exceptions Taken
UG3010-027230C11	3	AWSS Castings-Foundry	TG0402-011	MSQUA902	TURNE361	2/03/12	2/21/12	8/22/11	8/22/11	-183	No Exceptions Taken
UG3010-027280B01	1	M Squared Valve Drain Line Materail	TG0402-023	MSQUA902	TURNE361	10/27/11	11/14/11	12/05/11	12/05/11	21	Make Corrections

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Submittal #	Cycle	e Submittal Name	Submittal Package	From Company	Io Company	Date Sent	Date Due	Date Returned	to Sub	Days Late	Status
No Spec Section (c	ontinu	ued)									
UG3010-027280B01	2	M Squared Valve Drain Line Materail	TG0402-023	MSQUA902	TURNE361	1/25/12	2/10/12	1/30/12	1/30/12	-11	Make Corrections Noted
UG3020-333410B01	1	Sludge Line Material	TG0406-016	MSQUA902	TURNE361	3/20/12	4/05/12			0	Submitted
UG9090-000000A01	1	Plywood Barrier Wall	TG1901-015	TRANS500	TURNE361	12/23/10	1/13/11	12/28/10	1/03/11	-16	No Exceptions Taken
WO0000-00000W0	1 1	Trailer Permit Drawings	WO-TRA0001	WILLI185	TURNE361	7/08/11	7/26/11	8/16/11	8/16/11	21	For Record Only
WO0000-00000W0	21	Trailer - Ramp Calculations	WO-TRA0001	WILLI185	TURNE361	7/08/11	7/26/11	8/16/11	8/16/11	21	For Record Only
WO0000-00000W0	31	Trailer - Building Calculations	WO-TRA0001	WILLI185	TURNE361	7/08/11	7/26/11	8/16/11	8/16/11	21	For Record Only
WO0000-00000W0	41	Trailer - Stair Ramp Details	WO-TRA0001	WILLI185	TURNE361	7/08/11	7/26/11	8/16/11	8/16/11	21	For Record Only
WO0000-00000W0	51	Backflow Preventer	SBPKG0001	MSQUA902	AECOM00 0	6/02/11	6/20/11	10/03/11	10/03/11	105	No Exceptions Taken
Spec Section 00 00	00										
T00000-100000A10	1	Transworld 1 Year Warranty		TRANS500	TURNE361	12/22/11	1/11/12	1/18/12	1/25/12	7	Rejected
T00000-100000A11	1	Cetco Warranty		TRANS500	TURNE361	12/22/11	1/11/12	1/18/12	1/25/12	7	Rejected
T00000-100000A12	1	Transworld - As-Built Drawings	TG1901-030	TRANS500	TURNE361	12/22/11	1/11/12	1/18/12	1/25/12	7	Submitted
T00000-100000A12	2	Transworld - As-Built Drawings	TG1901-030	TRANS500	TURNE361	3/05/12	3/21/12			0	Submitted
TG9090-000000A01	1	301 Mission Sound Wall Design	TG0300-902	BALFO900	TURNE361	10/19/11	10/19/11	10/21/11	10/24/11	2	Make Corrections Noted
TG9090-000000A01	2	301 Mission Sound Wall Design	TG0300-902	BALFO900	TURNE361	11/14/11	11/14/11	11/14/11	11/14/11	0	Make Corrections Noted
TG9090-000000A01	3	301 Mission Sound Wall Design	TG0300-902	BALFO900	TURNE361	11/14/11	11/14/11	12/08/11	12/08/11	24	Make Corrections Noted
Spec Section 00 04	66										
TZ1010-000000A18	1	Certificate of Subcontractor Regarding Apprenticeship Training Program	TG0300-020	BALFO900	TURNE361	3/21/11	4/06/11	3/21/11	3/21/11	-16	For Record Only
Spec Section 00 06	10										
TZ1010-000000A19	1	Performance and Payment Bond	TG0300-020	BALFO900	TURNE361	3/21/11	4/06/11	3/21/11	3/21/11	-16	For Record Only
UA0000-000610A01	1	P&P Bonds	TG0405-049	TRINE814	TURNE361	2/17/11	3/08/11	2/28/11	2/28/11	-8	For Record Only
Spec Section 00 07	00										
TZ1010-000700A01	1	Hourly Labor Rates	TG0300-020	BALFO900	TURNE361	3/21/11	4/06/11	3/21/11	3/21/11	-16	For Record Only
UA0000-000700A01	1	Trinet - Labor Rates	TG0405-047	TRINE814	TURNE361	2/14/11	3/03/11	2/18/11	2/18/11	-13	Make Corrections Noted
UA0000-000700A01	2	Trinet - Labor Rates	TG0405-047	TRINE814	TURNE361	5/10/11	5/26/11	5/23/11	5/23/11	-3	Make Corrections Noted
UA0000-000700B01	1	M Squared - Labor Rates	TG0434-030	MSQUA902	TURNE361	2/10/11	3/01/11	2/18/11	2/18/11	-11	Make Corrections Noted
UA0000-000700B01	2	M Squared - Labor Rates	TG0434-030	MSQUA902	TURNE361	3/22/11	4/07/11	4/15/11	4/15/11	8	Make Corrections Noted



Submittal #	Cycl	e Submittal Name	Submittal Package	From Company	To Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status
Spec Section 00 07	00 (co	ontinued)									
UA0000-000700B01	3	M Squared - Labor Rates	TG0434-030	MSQUA902	TURNE361	7/19/11	8/04/11	8/23/11	8/23/11	19	Make Corrections Noted
Spec Section 00 08	05										
TZ1010-000000A17	1	Insurance Certificates and Endorsements	TG0300-020	BALFO900	TURNE361	3/21/11	4/06/11	3/21/11	3/21/11	-16	For Record Only
UA0000-000805A01	1	Certificates of Insurance	TG0405-049	TRINE814	TURNE361	2/17/11	3/08/11	2/28/11	2/28/11	-8	For Record Only
Spec Section 00 08	13										
UA0000-000813A01	1	Noise Mitigation Plan	TG0405-029	TRINE814	TURNE361	1/13/11	1/31/11	11/29/10	11/29/10	-63	Not Reviewed
WO0000-000813W0	1 1	Air Quality Management	WO-EPP0001	30	TURNE361	1/10/11	1/26/11	1/11/11		-15	Make Corrections Noted
WO0000-000813W0	12	Air Quality Management	WO-EPP0001	30	TURNE361	1/11/11	1/27/11	1/12/11		-15	Make Corrections Noted
WO0000-000813W0	13	Air Quality Management	WO-EPP0001	30	TURNE361	1/12/11	1/28/11	1/27/11	1/27/11	-1	Make Corrections Noted
WO0000-000813W0	1 4	Air Quality Management	WO-EPP0001	30	TURNE361	4/11/11	4/27/11	4/28/11	11/09/11	1	Make Corrections
WO0000-000813W0	15	Air Quality Management	WO-EPP0001	30	TURNE361	1/16/12	2/01/12	2/02/12	2/02/12	1	Make Corrections
WO0000-000813W0	2 1	Noise and Vibration Mitigation Management Plan	WO-NMM0001	30	TURNE361	4/11/11	4/27/11	4/28/11	5/03/11	1	Make Corrections
WO0000-000813W0	22	Noise and Vibration Mitigation Management Plan	WO-NMM0001	30	TURNE361		4/11/11			0	Make Corrections
WO0000-000813W0	23	Noise and Vibration Mitigation Management Plan	WO-NMM0001	30	TURNE361	10/04/11	10/20/11	11/04/11	11/09/11	15	Make Corrections
WO0000-000813W0	2 4	Noise and Vibration Mitigation Management Plan	WO-NMM0001	30	TURNE361	1/16/12	2/01/12	2/02/12	2/02/12	1	Make Corrections
WO0000-000813W0	31	Noise, Dust, and Odor Abatement Plan	WO-NDO0001	30	TURNE361	6/28/11	7/15/11	7/08/11	7/08/11	-7	Rejected
Spec Section 00 08	15										
TZ1010-000815A01	1	Solid Waste Management Plan	TG0300-060	BALFO900	TURNE361	4/20/11	5/06/11	5/06/11	5/09/11	0	Rejected
WO0000-000815W0	1 1	Construction Waste Management	WO-CDD0001	30	TURNE361	1/11/11	1/27/11	2/02/11	2/02/11	6	No Exceptions Taken
WO0000-000815W0	12	Construction Waste Management	WO-CDD0001	30	TURNE361	10/04/11	10/20/11	5/06/11	5/06/11	-167	No Exceptions Taken
WO0000-000815W0	13	Construction Waste Management	WO-CDD0001	30	TURNE361	10/04/11	10/20/11	11/03/11	11/09/11	14	No Exceptions Taken
WO0000-000815W0	14	Construction Waste Management	WO-CDD0001	30	TURNE361	1/16/12	2/01/12	2/21/12	2/23/12	20	No Exceptions Taken
WO0000-000815W0	15	Construction Waste Management	WO-CDD0001	30	TURNE361	2/23/12	3/12/12	3/12/12	3/12/12	0	No Exceptions Taken
WO0000-000815W0	2 1	Waste Management Plan for LEED	WO-WMM0001	30	TURNE361	2/01/12	2/17/12			0	For Record Only
Spec Section 00 08	20										
TZ1010-000820A01	1	CityBuild Workforce Projection Form	TG0300-022	BALFO900	TURNE361	4/05/11	4/21/11	4/18/11	4/19/11	-3	No Exceptions Taken
UA0000-000820A01	1	City Build Workforce Projection	TG0405-041	TRINE814	TURNE361	1/05/11	1/21/11	1/07/11	1/07/11	-14	No Exceptions Taken



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Spec Section 00 08	20 (cc	ontinued)									
UA0000-000820A01	2	City Build Workforce Projection	TG0405-041	TRINE814	TRINE814	1/25/11	2/10/11	1/25/11	1/25/11	-16	No Exceptions Taken
UA0000-000820A01	3	City Build Workforce Projection	TG0405-041	TRINE814	TURNE361	8/31/11	9/19/11	8/31/11	8/31/11	-19	No Exceptions Taken
UA0000-000820D01	1	City Build Workforce Projection	TG0406-002	MSQUA902	TURNE361	3/30/11	4/15/11	4/05/11	4/05/11	-10	No Exceptions Taken
Spec Section 00061	0										
UA0000-000610B01	1	P&P Bonds	TG0434-011	MSQUA902	TURNE361	1/20/11	1/20/11	1/31/11	1/31/11	11	For Record Only
UA0000-000610C01	1	Bass P&P Bond	TG0502-000	01	TURNE361	9/15/11	10/03/11			0	For Record Only
UA0000-000610C02	1	Executed P&P Bonds	TG1901-000	01	TURNE361	9/15/11	10/03/11	9/16/11		-17	For Record Only
Spec Section 00070	0										
WO0000-011310W0	1 1	Webcor / Obayashi Baseline Schedule Narrative	WO-SCH0001	30	TRANS467	10/27/10	11/12/10	11/16/10	11/16/10	4	No Exceptions Taken
WO0000-011310W0	12	Webcor / Obayashi Baseline Schedule Narrative	WO-SCH0001	30	TRANS467	11/22/10	12/08/10	12/13/10	12/14/10	5	No Exceptions Taken
WO0000-011310W0	13	Webcor / Obayashi Baseline Schedule Narrative	WO-SCH0001	30	TRANS467	12/23/10	1/13/11	1/10/11		-3	No Exceptions Taken
WO0000-011310W02	2 1	Webcor / Obayashi Baseline Schedule (P6 file)	WO-SCH0001	30	TRANS467	10/27/10	11/12/10	11/16/10	11/16/10	4	No Exceptions Taken
WO0000-011310W02	2 2	Webcor / Obayashi Baseline Schedule (P6 file)	WO-SCH0001	30	TRANS467	11/22/10	12/08/10	12/13/10	12/14/10	5	No Exceptions Taken
WO0000-011310W02	23	Webcor / Obayashi Baseline Schedule (P6 file)	WO-SCH0001	30	TRANS467	12/23/10	1/13/11	1/10/11		-3	No Exceptions Taken
WO0000-011310W03	31	Webcor / Obayashi Baseline Schedule (PDFfile)	WO-SCH0001	30	TRANS467	10/27/10	11/12/10	11/16/10	11/16/10	4	No Exceptions Taken
WO0000-011310W03	32	Webcor / Obayashi Baseline Schedule (PDFfile)	WO-SCH0001	30	TRANS467	11/22/10	12/08/10	12/13/10	12/14/10	5	No Exceptions Taken
WO0000-011310W03	3 3	Webcor / Obayashi Baseline Schedule (PDFfile)	WO-SCH0001	30	TRANS467	12/23/10	1/13/11	1/10/11		-3	No Exceptions Taken
WO0000-011310W04	4 1	Webcor / Obayashi Baseline Schedule ACTIVITY	WO-SCH0001	30	TRANS467	10/27/10	11/12/10	11/16/10	11/16/10	4	No Exceptions Taken
WO0000-011310W04	42	Webcor / Obayashi Baseline Schedule ACTIVITY	WO-SCH0001	30	TRANS467	11/22/10	12/08/10	12/13/10	12/14/10	5	No Exceptions Taken
WO0000-011310W04	43	Webcor / Obayashi Baseline Schedule ACTIVITY	WO-SCH0001	30	TRANS467	12/23/10	1/13/11	1/10/11		-3	No Exceptions Taken
WO0000-011310W0	51	Webcor / Obayashi Baseline Schedule CRITICAL	WO-SCH0001	30	TRANS467	10/27/10	11/12/10	11/16/10	11/16/10	4	No Exceptions Taken
WO0000-011310W0	52	Webcor / Obayashi Baseline Schedule CRITICAL PATH	WO-SCH0001	30	TRANS467	11/22/10	12/08/10	12/13/10	12/14/10	5	No Exceptions Taken
WO0000-011310W0	53	Webcor / Obayashi Baseline Schedule CRITICAL	WO-SCH0001	30	TRANS467	12/23/10	1/13/11	1/10/11		-3	No Exceptions Taken
WO0000-011310W06	6 1	Webcor / Obayashi Baseline Schedule NEAR CRITICAL PATH ACTIVITIES	WO-SCH0001	30	TRANS467	10/27/10	11/12/10	11/16/10	11/16/10	4	No Exceptions Taken
WO0000-011310W06	6 2	Webcor / Obayashi Baseline Schedule NEAR CRITICAL PATH ACTIVITIES	WO-SCH0001	30	TRANS467	11/22/10	12/08/10	12/13/10	12/14/10	5	No Exceptions Taken
WO0000-011310W06	53	Webcor / Obayashi Baseline Schedule NEAR CRITICAL PATH ACTIVITIES	WO-SCH0001	30	TRANS467	12/23/10	1/13/11	1/10/11		-3	No Exceptions Taken
WO0000-011310W07	71	Webcor / Obayashi Baseline Schedule PRED SUCCES	WO-SCH0001	30	TRANS467	10/27/10	11/12/10	11/16/10	11/16/10	4	No Exceptions Taken



Submittal #	Cycle	e Submittal Name	Package	From Company	To Company	Date Sent	Date Due	Date Returned	to Sub	Days Late	Status
Spec Section 00070	100) <b>0</b> (	ntinued)									
WO0000-011310W0	72	Webcor / Obayashi Baseline Schedule PRED SUCCES	WO-SCH0001	30	TRANS467	11/22/10	12/08/10	12/13/10	12/14/10	5	No Exceptions Taken
WO0000-011310W0	73	Webcor / Obayashi Baseline Schedule PRED SUCCES	WO-SCH0001	30	TRANS467	12/23/10	1/13/11	1/10/11		-3	No Exceptions Taken
WO0000-011310W0	81	Webcor / Obayashi Baseline Schedule RESPONSIBILITY	WO-SCH0001	30	TRANS467	10/27/10	11/12/10	11/16/10	11/16/10	4	No Exceptions Taken
WO0000-011310W0	82	Webcor / Obayashi Baseline Schedule RESPONSIBILITY	WO-SCH0001	30	TRANS467	11/22/10	12/08/10	12/13/10	12/14/10	5	No Exceptions Taken
WO0000-011310W0	83	Webcor / Obayashi Baseline Schedule RESPONSIBILITY	WO-SCH0001	30	TRANS467	12/23/10	1/13/11	1/10/11		-3	No Exceptions Taken
WO0000-011310W0	91	Webcor / Obayashi Baseline Schedule TOTAL FLOAT	WO-SCH0001	30	TRANS467	10/27/10	11/12/10	11/16/10	11/16/10	4	No Exceptions Taken
WO0000-011310W0	92	Webcor / Obayashi Baseline Schedule TOTAL FLOAT	WO-SCH0001	30	TRANS467	11/22/10	12/08/10	12/13/10	12/14/10	5	No Exceptions Taken
WO0000-011310W0	93	Webcor / Obayashi Baseline Schedule TOTAL FLOAT	WO-SCH0001	30	TRANS467	12/23/10	1/13/11	1/10/11		-3	No Exceptions Taken
Spec Section 00080	)5										
UA0000-000805B01	1	Certificate of Insurance	TG0434-011	MSQUA902	TURNE361	1/20/11	1/20/11	1/31/11	1/31/11	11	For Record Only
UA0000-000805C01	1	Bass - Insurance	TG0502-000	01	TURNE361	9/15/11	10/03/11			0	For Record Only
UA0000-000805C02	1	Transworld Insurace	TG1901-000	01	TURNE361	9/15/11	10/03/11	9/16/11		-17	For Record Only
Spec Section 00081	3										
UA0000-000813B01	1	Noise Mitigation Plan	TG0434-013	MSQUA902	TURNE361	1/12/11	1/28/11	1/20/11	1/20/11	-8	No Exceptions Taken
Spec Section 00272	23										
UG3010-002723C01	1	AWSS Welding Certification	TG0406-015	MSQUA902	TURNE361	7/18/11	8/03/11	8/03/11	8/03/11	0	Make Corrections Noted
Spec Section 01 10	26										
TA0000-011026A01	1	Transworld - Schedule of Values	TG1901-009	01	TURNE361	12/08/10	12/28/10	12/13/10		-15	No Exceptions Taken
TZ1010-011026A01	1	Schedule of Values	TG0300-070	BALFO900	TURNE361	2/14/11	3/03/11	3/07/11	3/08/11	4	Make Corrections Noted
TZ1010-011026A01	2	Schedule of Values	TG0300-070	BALFO900	TURNE361	3/21/11	4/06/11	3/25/11	3/25/11	-12	Make Corrections Noted
UA0000-011026B01	1	Schedule of Values	TG0434-012	MSQUA902	TURNE361	1/17/11	2/02/11	1/24/11	1/24/11	-9	Make Corrections Noted
UA0000-011026B01	2	Schedule of Values	TG0434-012	MSQUA902	TURNE361	1/25/11	2/10/11	1/27/11		-14	Make Corrections Noted
UA0000-011026B01	3	Schedule of Values	TG0434-012	MSQUA902	TURNE361	1/27/11	2/14/11	2/02/11	2/02/11	-12	Make Corrections Noted
UA0000-011026C01	1	Schedule of Values	TG0401-003	MSQUA902	TURNE361	3/10/11	3/28/11	3/30/11	3/31/11	2	Make Corrections Noted
UA0000-011026D01	1	Schedule of Values	TG0406-001	MSQUA902	TURNE361	4/12/11	4/28/11	4/21/11	4/21/11	-7	No Exceptions Taken
WO0000-011026W0	1 1	W-O Schedule of Values	WO-SOV001	01	TURNE361	11/30/10	12/09/10	12/13/10		4	No Exceptions Taken

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Submittal #	Cycle	Submittal Name	Submittal Package	From Company	To Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status
Spec Section 01 10	26 (cc	ontinued)									
WO0000-011026W01	2	W-O Schedule of Values	WO-SOV001	01	TURNE361	12/20/10	1/03/11	12/22/10		-12	No Exceptions Taken
Spec Section 01 10	50										
TZ1010-011050A01	1	Surveyor Information	TG0300-008	BALFO900	TURNE361	2/14/11	3/03/11	2/23/11	2/23/11	-8	No Exceptions Taken
TZ1010-011050A02	1	Site Drawing Verifying Contract Drawing Elevations and Locations	TG0300-090	BALFO900	TURNE361	7/11/11	7/27/11	8/24/11	8/25/11	28	Revise and Resubmit
UA0000-011050A01	1	Surveyor Qualifications & Insurance	TG0405-026	TRINE814	TURNE361	11/17/10	12/03/10	11/29/10	11/29/10	-4	No Exceptions Taken
UA0000-011050C01	1	Survey & Control Points	TG0401-007	MSQUA902	TURNE361	3/11/11	3/29/11	3/15/11	3/15/11	-14	No Exceptions Taken
UA0000-011050C02	1	Surveyor Qualifications	TG0401-007	MSQUA902	TURNE361	3/11/11	3/29/11	3/15/11	3/15/11	-14	No Exceptions Taken
UA0000-011050D01	1	Survey & Control Points	TG0406-005	MSQUA902	TURNE361	4/21/11	5/09/11	4/22/11	4/25/11	-17	No Exceptions Taken
UA0000-011050D01	2	Survey & Control Points	TG0406-005	MSQUA902	TURNE361	6/10/11	6/28/11	6/09/11	6/09/11	-19	No Exceptions Taken
UA0000-011050D01	3	Survey & Control Points	TG0406-005	MSQUA902	TURNE361	8/17/11	9/02/11	8/19/11	8/19/11	-14	No Exceptions Taken
Spec Section 01 13	00										
TZ1010-000000A21	1	Submittal Schedule	TG0300-001	BALFO900	TURNE361	2/04/11	2/23/11	2/09/11	2/10/11	-14	Make Corrections Noted
TZ1010-000000A21	2	Submittal Schedule	TG0300-001	BALFO900	TURNE361	2/11/11	3/02/11	3/02/11	3/02/11	0	Make Corrections Noted
TZ1010-000000A21	3	Submittal Schedule	TG0300-001	BALFO900	TURNE361	4/05/11	4/21/11	5/03/11	5/03/11	12	Make Corrections Noted
UA0000-011300A01	1	Trinet Submittal Schedule	TG0405-030	TRINE814	TURNE361	11/16/10	12/02/10	12/08/10	12/08/10	6	Submitted
UA0000-011300C01	1	M Squared - Submittal Memo		01	TURNE361	8/31/11	9/19/11	8/31/11		-19	Void
UA0000-011300C02	1	M Squared - Submittal Memo		01	TURNE361	4/01/11	4/19/11	4/01/11		-18	Void
UA0000-011300C03	1	M Squared - Submittal Memo	TG0404-011	01	TURNE361	4/01/11	4/19/11	6/01/11		43	Void
UA0000-011300C04	1	M Squared - Submittal Memo	TG0406-012	01	TURNE361	4/01/11	4/19/11	8/31/11		134	Void
Spec Section 01 13	10										
TZ1010-011310A01	1	CPM Schedule	TG0300-010	BALFO900	TURNE361	1/27/11	2/14/11	2/02/11	2/02/11	-12	Make Corrections Noted
TZ1010-011310A01	2	CPM Schedule	TG0300-010	BALFO900	TURNE361	2/02/11	2/18/11	2/14/11	2/14/11	-4	Make Corrections Noted
TZ1010-011310A02	1	CPM Schedule in P6	TG0300-010	BALFO900	TURNE361		2/16/11			0	Make Corrections Noted
TZ1010-011310A02	2	CPM Schedule in P6	TG0300-010	BALFO900	TURNE361	2/02/11	2/18/11	2/14/11	2/14/11	-4	Make Corrections Noted
TZ1010-011310A03	1	2011-01-28 Baseline Schedule Narrative for TG03	TG0300-010	BALFO900	TURNE361		2/16/11			0	Make Corrections Noted
TZ1010-011310A03	2	2011-01-28 Baseline Schedule Narrative for TG03	TG0300-010	BALFO900	TURNE361	2/02/11	2/18/11	2/14/11	2/14/11	-4	Make Corrections Noted
WO0000-011310W10	) 1	Baseline Schedule Narrative for TG04.3 & TG04.4	TG0434-028	30	TURNE361	1/26/11	2/11/11	3/09/11	3/09/11	26	Make Corrections Noted



Submittai #	Cycle	e Submittai Name	Package	Company	Company	Date Sent	Date Due	Date Returned	to Sub	Late	Status
Spec Section 01 13	10 (co	ontinued)									
WO0000-011310W1	0 2	Baseline Schedule Narrative for TG04.3 & TG04.4	TG0434-028	30	TURNE361	3/10/11	3/28/11	3/24/11	3/24/11	-4	Make Corrections Noted
WO0000-011310W1	11	CONSTRUCTION SCHEDULE SUBMITTAL TG04.3 & TG04.4.xer	TG0434-028	30	TURNE361	1/26/11	2/11/11	3/09/11	3/09/11	26	Make Corrections Noted
WO0000-011310W1	12	CONSTRUCTION SCHEDULE SUBMITTAL TG04.3 & TG04.4.xer	TG0434-028	30	TURNE361	3/10/11	3/28/11	3/24/11	3/24/11	-4	Make Corrections Noted
WO0000-011310W1	2 1	CONSTRUCTION SCHEDULE SUBMITTAL TG04.3 & TG04.4.pdf	TG0434-028	30	TURNE361	1/26/11	2/11/11	3/09/11	3/09/11	26	Make Corrections Noted
WO0000-011310W1	22	CONSTRUCTION SCHEDULE SUBMITTAL TG04.3 & TG04.4.pdf	TG0434-028	30	TURNE361	3/10/11	3/28/11	3/24/11	3/24/11	-4	Make Corrections Noted
WO0000-011311W13	3 1	Baseline (R3) Monthly Progress Narrative	WO-SCH0002	01	TURNE361	2/01/11	2/17/11			0	Make Corrections Noted
WO0000-011311W13	32	Baseline (R3) Monthly Progress Narrative	WO-SCH0002	01	TURNE361	3/01/11	3/17/11	3/25/11	3/29/11	8	Make Corrections Noted
WO0000-011311W1	3 3	Baseline (R3) Monthly Progress Narrative	WO-SCH0002	01	TURNE361	4/04/11	4/20/11	4/25/11	4/26/11	5	Make Corrections Noted
WO0000-011311W1	3 4	Baseline (R3) Monthly Progress Narrative	WO-SCH0002	01	TURNE361	4/28/11	5/16/11	5/25/11	5/25/11	9	Make Corrections Noted
WO0000-011311W1	3 5	Baseline (R3) Monthly Progress Narrative	WO-SCH0002	01	TURNE361	6/01/11	6/17/11	6/20/11	6/21/11	3	Make Corrections Noted
WO0000-011311W1:	36	Baseline (R3) Monthly Progress Narrative	WO-SCH0002	01	TURNE361	7/11/11	7/27/11	7/27/11		0	Make Corrections Noted
WO0000-011311W1	37	Baseline (R3) Monthly Progress Narrative	WO-SCH0002	01	TURNE361	8/09/11	8/25/11	8/31/11		6	Make Corrections Noted
WO0000-011311W13	38	Baseline (R3) Monthly Progress Narrative	WO-SCH0002	01	TURNE361	9/01/11	9/20/11	9/20/11		0	Make Corrections Noted
WO0000-011311W1	39	Baseline (R3) Monthly Progress Narrative	WO-SCH0002	01	TURNE361	10/04/11	10/20/11	10/24/11		4	Make Corrections Noted
WO0000-011311W1	3 10	Baseline (R3) Monthly Progress Narrative	WO-SCH0002	01	TURNE361	11/04/11	11/22/11			0	Make Corrections Noted
WO0000-011311W1	3 11	Baseline (R3) Monthly Progress Narrative	WO-SCH0002	01	TURNE361	12/05/11	12/21/11	12/22/11		1	Make Corrections Noted
WO0000-011311W1:	3 12	Baseline (R3) Monthly Progress Narrative	WO-SCH0002	01	TRANS450	1/06/12	1/24/12	1/25/12		1	Make Corrections Noted
WO0000-011311W14	4 1	Baseline (R3) Monthly Progress Schedule.pdf	WO-SCH0002	01	TURNE361	2/01/11	2/17/11			0	Make Corrections Noted
WO0000-011311W14	42	Baseline (R3) Monthly Progress Schedule.pdf	WO-SCH0002	01	TURNE361	3/01/11	3/17/11	3/25/11	3/29/11	8	Make Corrections Noted
WO0000-011311W14	43	Baseline (R3) Monthly Progress Schedule.pdf	WO-SCH0002	01	TURNE361	4/04/11	4/20/11	4/25/11	4/26/11	5	Make Corrections Noted
WO0000-011311W14	4 4	Baseline (R3) Monthly Progress Schedule.pdf	WO-SCH0002	01	TURNE361	4/28/11	5/16/11	5/25/11	5/25/11	9	Make Corrections Noted
WO0000-011311W14	45	Baseline (R3) Monthly Progress Schedule.pdf	WO-SCH0002	01	TURNE361	6/01/11	6/17/11	6/20/11	6/21/11	3	Make Corrections Noted
WO0000-011311W14	46	Baseline (R3) Monthly Progress Schedule.pdf	WO-SCH0002	01	TURNE361	7/11/11	7/27/11	7/27/11		0	Make Corrections Noted



Submittal #	Cycle	e Submittal Name	Submittal Package	From Company	Io Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status
Spec Section 01 13	10 (co	ontinued)									
WO0000-011311W14	4 7	Baseline (R3) Monthly Progress Schedule.pdf	WO-SCH0002	01	TURNE361	8/09/11	8/25/11			0	Make Corrections Noted
WO0000-011311W14	48	Baseline (R3) Monthly Progress Schedule.pdf	WO-SCH0002	01	TURNE361	9/01/11	9/20/11	9/20/11		0	Make Corrections Noted
WO0000-011311W14	49	Baseline (R3) Monthly Progress Schedule.pdf	WO-SCH0002	01	TURNE361	10/04/11	10/20/11	10/24/11		4	Make Corrections Noted
WO0000-011311W14	4 10	Baseline (R3) Monthly Progress Schedule.pdf	WO-SCH0002	01	TURNE361	11/04/11	11/22/11			0	Make Corrections Noted
WO0000-011311W14	4 11	Baseline (R3) Monthly Progress Schedule.pdf	WO-SCH0002	01	TURNE361	12/05/11	12/21/11	12/22/11		1	Make Corrections Noted
WO0000-011311W14	4 12	Baseline (R3) Monthly Progress Schedule.pdf	WO-SCH0002	01	TRANS450	1/06/12	1/24/12	1/25/12		1	Make Corrections Noted
WO0000-011311W1	51	Baseline (R3) Monthly Progress Schedule.xer	WO-SCH0002	01	TURNE361	2/01/11	2/17/11			0	Make Corrections Noted
WO0000-011311W1	52	Baseline (R3) Monthly Progress Schedule.xer	WO-SCH0002	01	TURNE361	3/01/11	3/17/11	3/25/11	3/29/11	8	Make Corrections Noted
WO0000-011311W1	53	Baseline (R3) Monthly Progress Schedule.xer	WO-SCH0002	01	TURNE361	4/04/11	4/20/11	4/25/11	4/26/11	5	Make Corrections Noted
WO0000-011311W1	54	Baseline (R3) Monthly Progress Schedule.xer	WO-SCH0002	01	TURNE361	4/28/11	5/16/11	5/25/11	5/25/11	9	Make Corrections Noted
WO0000-011311W1	55	Baseline (R3) Monthly Progress Schedule.xer	WO-SCH0002	01	TURNE361	6/01/11	6/17/11	6/20/11	6/21/11	3	Make Corrections Noted
WO0000-011311W1	56	Baseline (R3) Monthly Progress Schedule.xer	WO-SCH0002	01	TURNE361	7/11/11	7/27/11	7/27/11		0	Make Corrections Noted
WO0000-011311W1	57	Baseline (R3) Monthly Progress Schedule.xer	WO-SCH0002	01	TURNE361	8/09/11	8/25/11			0	Make Corrections Noted
WO0000-011311W1	58	Baseline (R3) Monthly Progress Schedule.xer	WO-SCH0002	01	TURNE361	9/01/11	9/20/11	9/20/11		0	Make Corrections Noted
WO0000-011311W1	59	Baseline (R3) Monthly Progress Schedule.xer	WO-SCH0002	01	TURNE361	10/04/11	10/20/11	10/24/11		4	Make Corrections Noted
WO0000-011311W1	5 10	Baseline (R3) Monthly Progress Schedule.xer	WO-SCH0002	01	TURNE361	11/04/11	11/22/11			0	Make Corrections Noted
WO0000-011311W1	5 11	Baseline (R3) Monthly Progress Schedule.xer	WO-SCH0002	01	TURNE361	12/05/11	12/21/11	12/22/11		1	Make Corrections Noted
WO0000-011311W18	5 12	Baseline (R3) Monthly Progress Schedule.xer	WO-SCH0002	01	TRANS450	1/06/12	1/24/12	1/25/12		1	Make Corrections Noted
WO0000-011311W16	6 1	Baseline(R3) Weekly Status Reports.pdf	WO-SCH0002	01	TURNE361	2/01/11	2/17/11			0	Make Corrections Noted
WO0000-011311W16	62	Baseline(R3) Weekly Status Reports.pdf	WO-SCH0002	01	TURNE361	3/01/11	3/17/11	3/25/11	3/29/11	8	Make Corrections Noted
WO0000-011311W16	63	Baseline(R3) Weekly Status Reports.pdf	WO-SCH0002	01	TURNE361	4/04/11	4/20/11	4/25/11	4/26/11	5	Make Corrections Noted
WO0000-011311W16	64	Baseline(R3) Weekly Status Reports.pdf	WO-SCH0002	01	TURNE361	4/28/11	5/16/11	5/25/11	5/25/11	9	Make Corrections Noted
WO0000-011311W16	65	Baseline(R3) Weekly Status Reports.pdf	WO-SCH0002	01	TURNE361	6/01/11	6/17/11	6/20/11	6/21/11	3	Make Corrections Noted



Submittal #	Cycle	e Submittal Name	Submittal Package	From Company	To Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status
Spec Section 01 13	10 (co	ontinued)									
WO0000-011311W16	6	Baseline(R3) Weekly Status Reports.pdf	WO-SCH0002	01	TURNE361	7/11/11	7/27/11	7/27/11		0	Make Corrections Noted
WO0000-011311W16	67	Baseline(R3) Weekly Status Reports.pdf	WO-SCH0002	01	TURNE361	8/09/11	8/25/11			0	Make Corrections Noted
WO0000-011311W16	68	Baseline(R3) Weekly Status Reports.pdf	WO-SCH0002	01	TURNE361	9/01/11	9/20/11	9/20/11		0	Make Corrections Noted
WO0000-011311W16	69	Baseline(R3) Weekly Status Reports.pdf	WO-SCH0002	01	TURNE361	10/04/11	10/20/11	10/24/11		4	Make Corrections Noted
WO0000-011311W16	6 10	Baseline(R3) Weekly Status Reports.pdf	WO-SCH0002	01	TURNE361	11/04/11	11/22/11			0	Make Corrections Noted
WO0000-011311W16	5 11	Baseline(R3) Weekly Status Reports.pdf	WO-SCH0002	01	TURNE361	12/05/11	12/21/11	12/22/11		1	Make Corrections Noted
WO0000-011311W16	5 12	Baseline(R3) Weekly Status Reports.pdf	WO-SCH0002	01	TRANS450	1/06/12	1/24/12	1/25/12		1	Make Corrections Noted
WO0000-011311W2 <sup>2</sup>	1	May Baseline (R3) Monthly Progress Narrative		30	TURNE361					0	Make Corrections Noted
WO0000-011311W24	1 1	July 2011 Schedule Delay Analysis	WO-SCH0002	01	TURNE361	7/11/11	7/27/11	7/27/11		0	Make Corrections Noted
WO0000-011311W24	42	July 2011 Schedule Delay Analysis	WO-SCH0002	01	TURNE361	8/09/11	8/25/11	9/21/11		27	Make Corrections Noted
WO0000-011311W2	5 1	Response to CMO/PMPC Monthly Submittal Comments	WO-SCH0002	01	TURNE361					0	Closed
WO0000-011311W28	5 2	Response to CMO/PMPC Monthly Submittal Comments	WO-SCH0002	01	TURNE361	11/04/11	11/22/11			0	Closed
WO2012-011310W1	31	Monthly Schedule Progress Narrative	WO-SCH2012	01	TRANS450	2/01/12	2/17/12	2/21/12		4	Make Corrections Noted
WO2012-011310W1	32	Monthly Schedule Progress Narrative	WO-SCH2012	01	TRANS450	3/02/12	3/20/12	3/20/12		0	Make Corrections Noted
WO2012-011310W14	4 1	Monthly Schedule Status (PDF)	WO-SCH2012	01	TRANS450	2/01/12	2/17/12	2/21/12		4	Make Corrections Noted
WO2012-011310W1	42	Monthly Schedule Status (PDF)	WO-SCH2012	01	TRANS450	3/01/12	3/19/12	3/20/12		1	Make Corrections Noted
WO2012-011310W1	5 1	Monthly Schedule Status (P6 FILE)	WO-SCH2012	01	TRANS450	2/01/12	2/17/12	2/21/12		4	Make Corrections Noted
WO2012-011310W1	52	Monthly Schedule Status (P6 FILE)	WO-SCH2012	01	TRANS450	3/01/12	3/19/12	3/20/12		1	Make Corrections Noted
WO2012-011310W1	5 1	Weekly Schedule Status Reports	WO-SCH2012	01	TRANS450	2/01/12	2/17/12	2/21/12		4	Make Corrections Noted
WO2012-011310W10	52	Weekly Schedule Status Reports	WO-SCH2012	01	TRANS450	3/01/12	3/19/12	3/20/12		1	Make Corrections Noted
WO2012-011311W17	71	2012 February Design Delay Mitigation Fragnet and Narrative	WO-SCH2012	01	TRANS450	3/01/12	3/19/12	3/20/12		1	Make Corrections Noted
Spec Section 01 13	40										
TZ1010-000000A15	1	Executed Long Form Subcontract	TG0300-020	BALFO900	TURNE361	3/21/11	4/06/11	3/21/11	3/21/11	-16	For Record Only
UA0000-011340A01	1	TG04.5 Executed Contract	TG0405-049	TRINE814	TURNE361	2/17/11	3/08/11	2/28/11	2/28/11	-8	For Record Only

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#### Project Office 175 Beale St San Francisco, CA 94105 Phone (415) 978-5700 Fax (415) 904-8119

Submittal #	Cycle	e Submittal Name	Submittal Package	From Company	To Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status
Spec Section 01 13	50										
TZ1010-011350A02	1	Excavation and Material Handling Plan	TG0300-110	BALFO900	TURNE361	3/24/11	4/11/11	3/25/11	3/25/11	-17	No Exceptions Taken
TZ1010-011350A02	2	Excavation and Material Handling Plan	TG0300-110	BALFO900	TURNE361	3/25/11	4/12/11	5/02/11	5/02/11	20	No Exceptions Taken
TZ1010-011350A03	1	Spill and Discharge Control Plan	TG0300-110	BALFO900	TURNE361	3/24/11	4/11/11	3/25/11	3/25/11	-17	No Exceptions Taken
TZ1010-011350A03	2	Spill and Discharge Control Plan	TG0300-110	BALFO900	TURNE361	3/25/11	4/12/11	5/02/11	5/02/11	20	No Exceptions Taken
TZ1010-011350A04	1	Noise, Dust, and Odor Abatement Plan	TG0300-192	BALFO900	TURNE361	6/23/11	7/12/11	8/29/11	8/29/11	48	Make Corrections Noted
TZ1010-011350A05	1	Decontamination Pad Location Plan	TG0300-110	BALFO900	TURNE361	3/24/11	4/11/11	3/25/11	3/25/11	-17	No Exceptions Taken
TZ1010-011350A05	2	Decontamination Pad Location Plan	TG0300-110	BALFO900	TURNE361	3/25/11	4/12/11	5/02/11	5/02/11	20	No Exceptions Taken
TZ1010-011350A06	1	Decontamination Procedures	TG0300-110	BALFO900	TURNE361	3/24/11	4/11/11	3/25/11	3/25/11	-17	No Exceptions Taken
TZ1010-011350A06	2	Decontamination Procedures	TG0300-110	BALFO900	TURNE361	3/25/11	4/12/11	5/02/11	5/02/11	20	No Exceptions Taken
WO0000-011350W0	1 1	Hazardous Material Management		30	TURNE361	1/10/11	1/26/11	1/11/11		-15	Rejected
WO0000-011350W0	12	Hazardous Material Management		30	TURNE361	1/11/11	1/27/11	1/12/11		-15	Rejected
WO0000-011350W0	13	Hazardous Material Management		30	TURNE361	1/12/11	1/28/11	1/27/11	1/27/11	-1	Rejected
WO0000-011350W02	2 1	Hazardous Material Management Plan	WO-HAZ0001	30	TURNE361	3/11/11	3/29/11	3/29/11	3/29/11	0	No Exceptions Taken
Spec Section 01 14	00										
TA0000-011400A01	1	Transworld Quality Control Plan	TG1901-021	TRANS500	TURNE361	2/11/11	3/02/11	3/10/11	3/11/11	8	Make Corrections Noted
TA0000-011400A01	2	Transworld Quality Control Plan	TG1901-021	TRANS500	TURNE361	4/18/11	5/04/11	5/02/11	5/04/11	-2	Make Corrections Noted
TZ1020-011400A01	1	Quality Control Plan	TG0300-120	BALFO900	TURNE361	4/07/11	4/25/11	5/12/11	5/13/11	17	For Record Only
TZ1020-011400A01	2	Quality Control Plan	TG0300-120	BALFO900	TURNE361	6/08/11	6/24/11	7/13/11	7/13/11	19	For Record Only
Spec Section 01 15	40										
TZ1030-011540A02	1	BBI Preconstruction Survey Photos & Video - Zones 1-4	TG0300-701	BALFO900	TURNE361	11/30/11	12/16/11	12/16/11		0	For Record Only
UG1020-011540C01	1	M Squared - Preconstruction Survey	TG0401-012	MSQUA902	TURNE361	3/10/11	3/25/11	3/10/11	3/10/11	-15	Void
UG1020-020100A01	1	Preconstruction Survey	TG0405-019	TRINE814	TURNE361	2/03/11	2/22/11	2/16/11	2/16/11	-6	No Exceptions Taken
Spec Section 01 15	45										
TZ1010-011545A01	1	MSDS Info	TG0300-150	BALFO900	TURNE361	3/10/11	3/28/11	3/22/11	3/22/11	-6	Make Corrections Noted
TZ1010-011545A01	2	MSDS Info	TG0300-150	BALFO900	TURNE361	4/28/11	5/16/11	5/05/11	5/09/11	-11	Make Corrections Noted
TZ1010-011545A02	1	Site Health and Safety Plan	TG0300-111	BALFO900	TURNE361	3/23/11	4/08/11	3/29/11	3/25/11	-10	For Record Only
TZ1010-011545A02	2	Site Health and Safety Plan	TG0300-111	BALFO900	TURNE361	4/06/11	4/22/11	4/07/11	4/07/11	-15	For Record Only
UA0000-011545B03	1	M Squared - MSDS	TG0434-029	MSQUA902	TURNE361	1/27/11	2/14/11	1/31/11	1/31/11	-14	No Exceptions Taken
Spec Section 01 15	61										



Submittal #	Cycle	e Submittal Name	Submittal Package	From Company	To Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status
Spec Section 01 15	61 (co	ontinued)									
TZ1010-011561A01	1	Erosion and Sediment Control Plan	TG0300-160	BALFO900	TURNE361	3/11/11	3/29/11	4/05/11	4/05/11	7	For Record Only
TZ1010-011561A01	2	Erosion and Sediment Control Plan	TG0300-160	BALFO900	TURNE361	4/07/11	4/25/11	4/29/11	5/02/11	4	For Record Only
TZ1010-011561A01	3	Erosion and Sediment Control Plan	TG0300-160	BALFO900	TURNE361	10/24/11	11/09/11	11/10/11	11/11/11	1	For Record Only
TZ1010-011561A01	4	Erosion and Sediment Control Plan	TG0300-160	BALFO900	TURNE361	11/18/11	12/08/11	12/16/11	12/16/11	8	For Record Only
WO0000-011561W01	1	Spill Discharge and Control Plan	WO-SWP0001	30	TURNE361	1/10/11	1/26/11	1/11/11		-15	Make Corrections Noted
WO0000-011561W01	2	Spill Discharge and Control Plan	WO-SWP0001	30	TURNE361	1/11/11	1/27/11	1/12/11		-15	Make Corrections Noted
WO0000-011561W01	3	Spill Discharge and Control Plan	WO-SWP0001	30	TURNE361	1/12/11	1/28/11	1/21/11	1/24/11	-7	Make Corrections Noted
WO0000-011561W01	4	Spill Discharge and Control Plan	WO-SWP0001	30	TURNE361	2/25/11	3/15/11	3/29/11	3/29/11	14	Make Corrections Noted
Spec Section 01 15	70										
TA2010-321217A04	1	Temporary Lighting Plan	TG0300-660	BALFO900	TURNE361	8/31/11	9/19/11	9/28/11	9/28/11	9	Make Corrections Noted
TZ1030-011570A01	1	Traffic Control Plans	TG0300-170	BALFO900	TURNE361	4/08/11	4/26/11	4/28/11	4/28/11	2	No Exceptions Taken
TZ1030-011570A02	1	Parking and Storage Plans	TG0300-170	BALFO900	TURNE361	4/08/11	4/26/11	4/28/11	4/28/11	2	No Exceptions Taken
TZ1030-011570A02	2	Parking and Storage Plans	TG0300-170	BALFO900	TURNE361	8/02/11	8/18/11	8/02/11	8/02/11	-16	No Exceptions Taken
TZ1030-011570A03	1	Flag Persons Certification	TG0300-170	BALFO900	TURNE361	4/08/11	4/26/11	4/28/11	4/28/11	2	No Exceptions Taken
TZ1030-011570A04	1	Material Specificationss for Traffic Control Devices	TG0300-170	BALFO900	TURNE361	4/08/11	4/26/11	4/28/11	4/28/11	2	No Exceptions Taken
TZ1030-011570A05	1	Traffic Control Plans - PG&E Phase II Utilities on First Street	TG0300-171	SANDI612	SANDI612	10/21/11	11/08/11	10/21/11	10/21/11	-18	No Exceptions Taken
TZ1030-011570A05	2	Traffic Control Plans - PG&E Phase II Utilities on First Street	TG0300-171	SANDI612	SANDI612	11/09/11	11/29/11	12/01/11	12/01/11	2	No Exceptions Taken
TZ1030-011570A05	3	Traffic Control Plans - PG&E Phase II Utilities on First Street	TG0300-171	SANDI612	TURNE361	12/01/11	12/19/11	12/30/11	12/30/11	11	No Exceptions Taken
TZ1030-011570A06	1	Traffic Control Plans - First Street - Partial and Full Closure, Detours, Final Striping and Signage Configuration	TG0300-172	BALFO900	SANDI612	12/08/11	12/28/11	12/27/11	12/27/11	-1	Submitted
TZ1030-011570A06	2	Traffic Control Plans - First Street - Partial and Full Closure, Detours, Final Striping and Signage Configuration	TG0300-172	BALFO900	TURNE361	3/16/12	4/03/12			0	Submitted
TZ1030-011570A07	1	Traffic Control Plans - Fremont Street - Partial and Full Closure, Detours, Final Striping and Signage Configuration	TG0300-173	BALFO900	SANDI612	12/08/11	12/28/11	12/27/11	12/27/11	-1	Submitted
TZ1030-011570A07	2	Traffic Control Plans - Fremont Street - Partial and Full Closure, Detours, Final Striping and Signage Configuration	TG0300-173	BALFO900	TURNE361	3/16/12	4/03/12			0	Submitted
TZ1030-011570A08	1	Traffic Control Plans - Beale Street - Partial and Full Closure, Detours, Final Striping and Signage Configuration	TG0300-174	BALFO900	TURNE361	3/15/12	4/02/12	12/27/11	12/30/11	-97	Submitted



Submittal #	Cycle	e Submittal Name	Submittal Package	From Company	To Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status
Spec Section 01 15	70 (co	ontinued)									
TZ1030-011570A08	2	Traffic Control Plans - Beale Street - Partial and Full Closure, Detours, Final Striping and Signage Configuration	TG0300-174	BALFO900	TURNE361	3/16/12	4/03/12			0	Submitted
TZ1030-011570A09	1	Traffic Control Plans - Natoma Street and Minna Street - Partial and Full Closure, Detours, Final Striping and Signage Configuration	TG0300-175	BALFO900	TURNE361	12/13/11	1/02/12	12/13/11	12/13/11	-20	Void
TZ1030-011570A10	1	Traffic Control Plans - Howard Street - Construction Entrance	TG0300-176	BALFO900	TURNE361	12/13/11	1/02/12	12/13/11	12/13/11	-20	Void
UA0000-011570C01	1	Traffic Control Plans Part 1	TG0401-005	MSQUA902	TURNE361	2/24/11	3/14/11	3/03/11	3/03/11	-11	No Exceptions Taken
UA0000-011570C02	1	Sign Inventory Form	TG0401-006	MSQUA902	TURNE361	3/09/11	3/25/11	3/15/11	3/15/11	-10	No Exceptions Taken
UA0000-011570C03	1	Traffic Control Plans Part 2	TG0401-010	MSQUA902	TURNE361	2/28/11	3/16/11	3/03/11	3/03/11	-13	No Exceptions Taken
UA0000-011570C04	1	Traffic Control Plans Part 3		MSQUA902	TURNE361		3/21/11			0	Void
UA0000-011570D01	1	Sign Inventory Form	TG0406-004	MSQUA902	TURNE361	5/05/11	5/23/11	5/27/11	5/31/11	4	No Exceptions Taken
UA0000-011570D02	1	Traffic Control Plans - Part 2	TG0406-007	MSQUA902	TURNE361	4/21/11	5/09/11	5/10/11	5/10/11	1	No Exceptions Taken
UA0000-011570D03	1	Traffic Control Plans - Part 1	TG0406-003	MSQUA902	TURNE361	4/04/11	4/20/11	4/19/11	4/19/11	-1	No Exceptions Taken
UA3020-011570A40	1	Traffic Control Plans for Minna St from First to Shaw	TG0405-039	TRINE814	TURNE361	1/04/11	1/20/11	1/07/11	1/07/11	-13	No Exceptions Taken
UA3020-011570A41	1	Traffic Control Plan for Minna St from Shaw to Second St	TG0405-040	TRINE814	TURNE361	1/04/11	1/20/11	1/07/11	1/07/11	-13	No Exceptions Taken
UA3020-011570A42	1	Traffic Control Plan for Minna St Joint Trench	TG0405-050	TRINE814	TURNE361	3/02/11	3/18/11	3/10/11	3/15/11	-8	No Exceptions Taken
WO0000-011570W0	1	Traffic Control Plan	WO-TCP0001	30	TURNE361	10/12/11	10/28/11	11/03/11	11/09/11	6	Submitted
WO0000-011570W07	2	Traffic Control Plan	WO-TCP0001	30	TURNE361	3/16/12	4/03/12			0	Submitted
Spec Section 01 17	20										
TZ1030-011720A01	1	Final As-built Drawings	TG0300-180	BALFO900	TURNE361		4/23/14			0	Pending
Spec Section 01 35	65										
TZ1010-013565A01	1	Air Quality Plan	TG0300-190	BALFO900	TURNE361	3/24/11	4/11/11	3/25/11	3/28/11	-17	Rejected
TZ1010-013565A01	2	Air Quality Plan	TG0300-190	BALFO900	TURNE361	4/06/11	4/22/11	4/29/11	12/16/11	7	Rejected
TZ1010-013565A01	3	Air Quality Plan	TG0300-190	BALFO900	TURNE361		4/13/11			0	Rejected
TZ1010-013565A01	4	Air Quality Plan	TG0300-190	BALFO900	TURNE361	3/01/12	3/19/12	3/01/12		-18	Rejected
TZ1010-013565A01	5	Air Quality Plan	TG0300-190	BALFO900	TURNE361	3/01/12	3/19/12	3/06/12	3/06/12	-13	Rejected
TZ1030-013565A02	1	Vibration and Noise Monitoring and Response Plan	TG0300-190	BALFO900	TURNE361	3/24/11	4/11/11	3/25/11	3/28/11	-17	For Record Only
TZ1030-013565A02	2	Vibration and Noise Monitoring and Response Plan	TG0300-190	BALFO900	TURNE361	4/06/11	4/22/11	4/29/11	12/16/11	7	For Record Only
TZ1030-013565A03	1	Life Safety and Emergency Access Plan	TG0300-191	BALFO900	TURNE361	5/09/11	5/25/11	6/17/11	6/20/11	23	Revise and Resubmit
TZ1030-013565A03	2	Life Safety and Emergency Access Plan	TG0300-191	BALFO900	TURNE361	6/23/11	7/12/11	8/22/11	8/23/11	41	Revise and Resubmit



Submittal #	Cycle	e Submittal Name	Submittal Package	From Company	To Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status
Spec Section 01 35	65 (cc	ontinued)									
TZ1030-013565A03	3	Life Safety and Emergency Access Plan	TG0300-191	BALFO900	TURNE361	2/06/12	2/22/12			0	Revise and Resubmit
TZ1030-013565A03	4	Life Safety and Emergency Access Plan	TG0300-191	BALFO900	TURNE361		5/03/11	3/02/12	3/06/12	304	Revise and Resubmit
TZ1030-013565A04	1	Acknowledgement that BBII will Coordinate with TJPA on Historic Preservation, etc.	TG0300-190	BALFO900	TURNE361	3/24/11	4/11/11	3/25/11	3/28/11	-17	Make Corrections Noted
TZ1030-013565A04	2	Acknowledgement that BBII will Coordinate with TJPA on Historic Preservation, etc.	TG0300-190	BALFO900	TURNE361	4/06/11	4/22/11	4/29/11	5/02/11	7	Make Corrections Noted
Spec Section 01 53	13										
TG4010-015313A01	1	CR T-017R1 PG&E Phase II Work at First Street	TG0300-901	BALFO900	TURNE361	10/14/11	11/01/11	1/06/12	10/24/11	66	Make Corrections Noted
TZ1030-015313A02	1	Temporary Bridges - Qualifications Data	TG0300-200	BALFO900	TURNE361	2/15/11	3/04/11	2/23/11	2/23/11	-9	For Record Only
TZ1030-015313A03	1	Temporary Bridges - Welder AWS Certifications	TG0300-240	BALFO900	TURNE361		6/04/12			0	Pending
TZ1030-015313A04	1	Temporary Bridges - Product Data	TG0300-210	BALFO900	TURNE361	8/10/11	8/26/11	8/30/11	9/12/11	4	Revise and Resubmit
TZ1030-015313A05	1	Temporary Bridges - Concrete Mix Designs	TG0300-248	BALFO900	TURNE361	1/09/12	1/25/12	2/09/12	2/09/12	15	For Record Only
TZ1030-015313A05	2	Temporary Bridges - Concrete Mix Designs	TG0300-248	BALFO900	TURNE361	3/13/12	3/29/12	3/05/12	3/05/12	-24	For Record Only
TZ1030-015313A06	1	Temporary Bridges - Rebar Manufacturer Certificates	TG0300-250	BALFO900	TURNE361		6/18/12			0	Pending
TZ1030-015313A07	1	Temporary Bridges - Misc. Materials Required for Complete Installation (ie Signage, Lighting, OCS System, Etc.)	TG0300-215	BALFO900	TURNE361	3/22/12	4/09/12	3/22/12	3/22/12	-18	Void
TZ1030-015313A08	1	Temp Bridge Geometrics - First Street	TG0300-205	BALFO900	TURNE361	2/14/12	3/01/12	2/16/12	2/16/12	-14	Submitted
TZ1030-015313A08	2	Temp Bridge Geometrics - First Street	TG0300-205	BALFO900	TURNE361	2/22/12	3/09/12	3/06/12	3/06/12	-3	Submitted
TZ1030-015313A08	3	Temp Bridge Geometrics - First Street	TG0300-205	BALFO900	TURNE361	3/15/12	4/02/12			0	Submitted
TZ1030-015313A09	1	Structural Drawings - First Street and Fremont Street	TG0300-201	BALFO900	TURNE361	7/11/11	7/27/11	8/11/11	8/11/11	15	Submitted
TZ1030-015313A09	2	Structural Drawings - First Street and Fremont Street	TG0300-201	BALFO900	TURNE361	10/21/11	11/08/11	11/14/11	11/14/11	6	Submitted
TZ1030-015313A09	3	Structural Drawings - First Street and Fremont Street	TG0300-201	BALFO900	TURNE361	2/24/12	3/13/12			0	Submitted
TZ1030-015313A10	1	Structural Calculations - First Street and Fremont Street	TG0300-201	BALFO900	TURNE361	7/11/11	7/27/11	8/11/11	8/11/11	15	Submitted
TZ1030-015313A10	2	Structural Calculations - First Street and Fremont Street	TG0300-201	BALFO900	TURNE361	10/21/11	11/08/11	11/14/11	11/14/11	6	Submitted
TZ1030-015313A10	3	Structural Calculations - First Street and Fremont Street	TG0300-201	BALFO900	TURNE361	2/24/12	3/13/12			0	Submitted
TZ1030-015313A11	1	Preconstruction Photos of Existing Conditions BEALE ST	TG0300-268	BALFO900	TURNE361		6/18/12			0	Pending
TZ1030-015313A12	1	MUNI OCS Installation Plan BEALE ST [FOR RECORD ONLY]	TG0300-220	BALFO900	TURNE361	6/28/11	7/15/11	8/16/11	8/16/11	32	For Record Only
TZ1030-015313A13	1	Temporary Bridge - Peer Review Letter	TG0300-202	BALFO900	TURNE361	8/10/11	8/26/11	9/20/11	9/20/11	25	Submitted
TZ1030-015313A13	2	Temporary Bridge - Peer Review Letter	TG0300-202	BALFO900	TURNE361	10/21/11	11/08/11	11/10/11	11/11/11	2	Submitted

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Submittal #	Cycle	e Submittal Name	Submittal Package	From Company	To Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status
Spec Section 01 53	13 (co	ontinued)									
TZ1030-015313A13	3	Temporary Bridge - Peer Review Letter	TG0300-202	BALFO900	TURNE361	2/24/12	3/13/12			0	Submitted
TZ1030-015313A14	1	Utility Supports at Temporary Bridges	TG0300-203	BALFO900	TURNE361	9/21/11	10/07/11	10/14/11	10/14/11	7	Revise and Resubmit
TZ1030-015313A15	1	Temporary Bridge Traffic & Signal Plans - 1st and Fremont	TG0300-204	BALFO900	TURNE361	9/15/11	10/03/11	10/06/11	10/11/11	3	Revise and Resubmit
TZ1030-015313A15	2	Temporary Bridge Traffic & Signal Plans - 1st and Fremont	TG0300-204	BALFO900	SANDI612	11/28/11	12/14/11	11/28/11	12/27/11	-16	Revise and Resubmit
TZ1030-015313A15	3	Temporary Bridge Traffic & Signal Plans - 1st and Fremont	TG0300-204	BALFO900	SANDI612	1/24/12	2/09/12	1/25/12	1/25/12	-15	Revise and Resubmit
TZ1030-015313A15	4	Temporary Bridge Traffic & Signal Plans - 1st and Fremont	TG0300-204	BALFO900	TURNE361	1/25/12	2/10/12	3/05/12	3/06/12	24	Revise and Resubmit
TZ1030-015313A16	1	Preconstruction Photos of Existing Conditions	TG0300-260	BALFO900	TURNE361		6/18/12			0	Pending
TZ1030-015313A17	1	MUNI OCS Installation Plan FIRST ST	TG0300-230	BALFO900	TURNE361		3/14/12			0	Pending
TZ1030-015313A18	1	Temporary Bridge Design Memos	TG0300-201	BALFO900	TURNE361	10/21/11	11/08/11	11/14/11	11/14/11	6	Not Used
TZ1030-015313A21	1	Preconstruction Photos of Existing Conditions FREMONT ST	TG0300-264	BALFO900	TURNE361		6/18/12			0	Pending
TZ1030-015313A22	1	Shop Drawings ACCESS TRESTLE	TG0300-280	BALFO900	TURNE361	8/16/11	9/01/11	8/23/11		-9	Approved As Noted
TZ1030-015313A22	2	Shop Drawings ACCESS TRESTLE	TG0300-280	BALFO900	TURNE361	8/19/11	9/07/11	9/27/11	9/27/11	20	Approved As Noted
TZ1030-015313A22	3	Shop Drawings ACCESS TRESTLE	TG0300-280	BALFO900	TURNE361	12/16/11	1/05/12			0	Approved As Noted
TZ1030-015313A22	4	Shop Drawings ACCESS TRESTLE	TG0300-280	BALFO900	TURNE361	1/06/12	1/24/12			0	Approved As Noted
TZ1030-015313A22	5	Shop Drawings ACCESS TRESTLE	TG0300-280	BALFO900	TURNE361	1/06/12	1/24/12		3/15/12	0	Approved As Noted
TZ1030-015313A23	1	Structural Calculations ACCESS TRESTLE	TG0300-280	BALFO900	TURNE361	8/16/11	9/01/11	8/23/11		-9	Approved As Noted
TZ1030-015313A23	2	Structural Calculations ACCESS TRESTLE	TG0300-280	BALFO900	TURNE361	8/19/11	9/07/11	9/27/11	9/27/11	20	Approved As Noted
TZ1030-015313A23	3	Structural Calculations ACCESS TRESTLE	TG0300-280	BALFO900	TURNE361	12/16/11	1/05/12			0	Approved As Noted
TZ1030-015313A23	4	Structural Calculations ACCESS TRESTLE	TG0300-280	BALFO900	TURNE361	1/06/12	1/24/12			0	Approved As Noted
TZ1030-015313A23	5	Structural Calculations ACCESS TRESTLE	TG0300-280	BALFO900	TURNE361	1/06/12	1/24/12		3/15/12	0	Approved As Noted
TZ1030-015313A24	1	Preconstruction Photos of Existing Conditions ACCESS TRESTLE	TG0300-290	BALFO900	TURNE361	1/11/12	1/27/12	1/30/12	1/31/12	3	No Exceptions Taken
TZ1030-015313A25	1	Access Trestle Design Criteria Document	TG0300-280	BALFO900	TURNE361		8/17/11	8/23/11		6	Not Used
TZ1030-015313A25	2	Access Trestle Design Criteria Document	TG0300-280	BALFO900	TURNE361	1/06/12	1/24/12	9/27/11	9/27/11	-119	Not Used
TZ1030-015313A26	1	Access Trestle Peer Review Letter and Comment History	TG0300-280	BALFO900	TURNE361		8/17/11	8/23/11		6	Approved As Noted
TZ1030-015313A26	2	Access Trestle Peer Review Letter and Comment History	TG0300-280	BALFO900	TURNE361	12/30/11	1/17/12	9/27/11	9/27/11	-112	Approved As Noted
TZ1030-015313A26	3	Access Trestle Peer Review Letter and Comment History	TG0300-280	BALFO900	TURNE361	12/30/11	1/17/12			0	Approved As Noted
TZ1030-015313A26	4	Access Trestle Peer Review Letter and Comment History	TG0300-280	BALFO900	TURNE361	1/06/12	1/24/12			0	Approved As Noted



Submittal #	Cycle	e Submittal Name	Submittal Package	From Company	To Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status
Spec Section 01 53 13 (continued)											
TZ1030-015313A26	5	Access Trestle Peer Review Letter and Comment History	TG0300-280	BALFO900	TURNE361	1/06/12	1/24/12		3/15/12	0	Approved As Noted
TZ1030-015313A27	1	CLSM Mix for pin pile and trestle pile installation	TG0300-281	BALFO900	TURNE361	1/26/12	2/13/12	2/09/12	2/09/12	-4	Revise and Resubmit
TZ1030-015313A30	1	Temporary Bridges - Steel Manufacturer Certifications or Coupon Tests	TG0300-244	BALFO900	TURNE361		6/04/12			0	Pending
Spec Section 01 74	00										
UA3020-017400A39	1	Constr & Demo Debris Mngmt Plan	TG0405-044	TRINE814	TURNE361	1/20/11	2/07/11	1/26/11	1/26/11	-12	Not Reviewed
Spec Section 01 81 13											
TZ1010-018113A01	1	LEED Submittal - Drilled Shafts (DUPLICATE - TA1020-316329A05)	TG0300-080	BALFO900	TURNE361	6/13/11	6/29/11	6/28/11	6/28/11	-1	No Exceptions Taken
TZ1010-018113A02	1	LEED Submittal - Structural Steel (DUPLICATE -	TG0300-081	BALFO900	TURNE361	6/13/11	6/29/11	6/29/11	6/30/11	0	No Exceptions Taken
WO0000-018113W0	1 1	LEED Action Plan	WO-LED0001	01	TURNE361	3/13/12	3/29/12	3/12/12		-17	Submitted
WO0000-018113W0	12	LEED Action Plan	WO-LED0001	01	TURNE361	3/20/12	4/05/12			0	Submitted
Spec Section 01102	6										
UA0000011026A01	1	Trinet schedule of values (SOV)	TG0405-031	TRINE814	TURNE361	11/19/10	12/07/10	12/01/10	12/01/10	-6	No Exceptions Taken
UA0000011026A01	2	Trinet schedule of values (SOV)	TG0405-031	TRINE814	TURNE361	12/01/10	12/17/10	12/10/10	12/10/10	-7	No Exceptions Taken
UA0000-011026B02	1	Schedule of Values TG04.4	TG0434-012	MSQUA902	TURNE361	1/17/11	2/02/11	1/24/11	1/24/11	-9	No Exceptions Taken
UA0000-011026B02	2	Schedule of Values TG04.4	TG0434-012	MSQUA902	TURNE361	1/25/11	2/10/11	1/27/11		-14	No Exceptions Taken
UA0000-011026B02	3	Schedule of Values TG04.4	TG0434-012	MSQUA902	TURNE361	1/27/11	2/14/11	2/01/11	2/02/11	-13	No Exceptions Taken
Spec Section 01105	0										
UA0000-011050E01	1	M Squared - Survey and Control Points	TG0402-021	MSQUA902	TURNE361	10/24/11	11/09/11	10/31/11	12/21/11	-9	No Exceptions Taken
Spec Section 01130	0										
UA0000-011300B01	1	Submittal Schedule	TG0434-001	MSQUA902	TURNE361	12/16/10	1/19/11	12/21/10	1/04/11	-29	Revise and Resubmit
UA0000-011300B02	1	4.6 Submittal Schedule	TG0406-011	MSQUA902	TURNE361	3/30/11	4/15/11	5/11/11	5/11/11	26	Make Corrections
UA0000-011300D01	1	Submittal Schedule	TG0402-017	MSQUA902	TURNE361	8/03/11	8/19/11	10/12/11	10/12/11	54	No Exceptions Taken
Spec Section 01131	0										
TA0000-011310A01	1	Transworld Schedule Narrative	TG1901-008	30	TURNE361	12/08/10	12/28/10	12/27/10	1/03/11	-1	No Exceptions Taken
TA0000-011310A01	2	Transworld Schedule Narrative	TG1901-008	30	TURNE361	1/12/11	1/28/11	2/02/11	2/07/11	5	No Exceptions Taken
TA0000-011310A02	1	Transworld Schedule in PDF	TG1901-008	30	TURNE361	12/08/10	12/28/10	12/27/10	1/03/11	-1	No Exceptions Taken
TA0000-011310A02	2	Transworld Schedule in PDF	TG1901-008	30	TURNE361	1/12/11	1/28/11	2/02/11	2/07/11	5	No Exceptions Taken
TA0000-011310A03	1	Transworld Schedule in P6	TG1901-008	30	TURNE361	12/08/10	12/28/10	12/27/10	1/03/11	-1	No Exceptions Taken
TA0000-011310A03	2	Transworld Schedule in P6	TG1901-008	30	TURNE361	1/12/11	1/28/11	2/02/11	2/07/11	5	No Exceptions Taken



Submittal #	Cycle	e Submittai Name	Package	From Company	IO Company	Date Sent	Date Due	Date Returned	to Sub	Days Late	Status
Spec Section 01131	1		i dendge	Company	company	0011	240	riotanioa		2010	
WO0000-011311W17	71	2011-03-10 - CONSTRUCTION SCHEDULE	WO-SCH0002	30	TURNE361	4/04/11	4/20/11	4/26/11	4/26/11	6	Make Corrections
		SUBMITTAL TG 04.1 (R1)			TUDNESS		1/00/111		1/20/11		Noted
WO0000-011311W18	31	2011-03-10 - CONSTRUCTION SCHEDULE SUBMITTAL TG 04.3/TG 04.4 (R1)	WO-SCH0002	30	TURNE361	4/04/11	4/20/11	4/26/11	4/26/11	6	Make Corrections
WO0000-011311W19	91	COMPARISON REPORT	WO-SCH0002	01	TURNE361					0	Make Corrections
WO0000-011311W19	) 2	COMPARISON REPORT	WO-SCH0002	01	TURNE361	4/28/11	5/16/11	5/25/11	5/31/11	9	Make Corrections
WO0000-011311W19	3	COMPARISON REPORT	WO-SCH0002	01	TURNE361	6/01/11	6/17/11	6/20/11	6/21/11	3	Make Corrections
WO0000-011311W19	94	COMPARISON REPORT	WO-SCH0002	01	TURNE361	7/11/11	7/27/11	7/27/11		0	Make Corrections
WO0000-011311W19	9 5	COMPARISON REPORT	WO-SCH0002	01	TURNE361	8/09/11	8/25/11	9/21/11		27	Make Corrections
WO0000-011311W20	) 1	CD DESIGN SCHEDULE ANALYSIS	WO-SCH0002	30	TURNE361					0	Make Corrections
WO0000-011311W20	) 2	CD DESIGN SCHEDULE ANALYSIS	WO-SCH0002	30	TURNE361	4/28/11	5/16/11	5/25/11	5/31/11	9	Make Corrections
WO0000-011311W20	) 3	CD DESIGN SCHEDULE ANALYSIS	WO-SCH0002	30	TURNE361	6/01/11	6/17/11	6/20/11	6/21/11	3	Make Corrections
WO0000-011311W22	2 1	ISSUES LOG	WO-SCH0002	01	TURNE361					0	Make Corrections
WO0000-011311W22	2 2	ISSUES LOG	WO-SCH0002	01	TURNE361	7/11/11	7/27/11	7/27/11		0	Make Corrections
WO0000-011311W22	2 3	ISSUES LOG	WO-SCH0002	01	TURNE361	8/09/11	8/25/11	9/21/11		27	Make Corrections
WO0000-011311W23	31		WO-SCH0002	01	TURNE361					0	Make Corrections
WO0000-011311W23	32	(PREVIOUSLI ISSUED BY EMAIL) WEEKLY COMPARISON REPORTS	WO-SCH0002	01	TURNE361	7/11/11	7/27/11	7/27/11		0	Make Corrections
WO0000-011311W23	3 3	(PREVIOUSLI ISSUED BY EMAIL) WEEKLY COMPARISON REPORTS	WO-SCH0002	01	TURNE361	8/09/11	8/25/11	9/21/11		27	Make Corrections
Spec Section 01134	0										Noted
UA0000-011340B01	1	Executed Contract	TG0434-011	MSQUA902	TURNE361	1/20/11	1/20/11	1/31/11	1/31/11	11	For Record Only
UA0000-011340C01	1	Bass - TG05.2R Subcontract JV Authorization	TG0502-000	01	TURNE361	9/15/11	10/03/11			0	For Record Only
UA0000-011340C02	1	Trasworld Executed Subcontract	TG1901-000	01	TURNE361	9/15/11	10/03/11	9/16/11		-17	For Record Only
Spec Section 01140	0										
UA0000-011400A01	1	Trinet Quality Control Plan	TG0405-011	TRINE814	TURNE361	11/04/10	11/22/10	11/18/10		-4	For Record Only
UA0000-011400A01	2	Trinet Quality Control Plan	TG0405-011	TRINE814	TURNE361	3/25/11	4/12/11	4/05/11		-7	For Record Only
UA0000-011400A01	3	Trinet Quality Control Plan	TG0405-011	TRINE814	TURNE361	4/18/11	5/04/11	4/28/11	5/02/11	-6	For Record Only
UA0000-011400A01	4	Trinet Quality Control Plan	TG0405-011	TRINE814	TURNE361	6/09/11	6/27/11	6/09/11	6/09/11	-18	For Record Only

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Submittal #	Cycle	e Submittal Name	Submittal Package	From Company	To Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status	
Spec Section 011400 (continued)												
UA0000-011400A01	5	Trinet Quality Control Plan	TG0405-011	TRINE814	TURNE361	7/19/11	8/04/11	8/31/11	8/31/11	27	For Record Only	
UA0000-011400B01	1	CQC Plan	TG0434-015	MSQUA902	TURNE361	2/07/11	2/24/11	3/11/11	3/11/11	15	No Exceptions Taken	
UA0000-011400B01	2	CQC Plan	TG0434-015	MSQUA902	TURNE361	6/06/11	6/22/11	7/13/11	7/13/11	21	No Exceptions Taken	
UA0000-011400B01	3	CQC Plan	TG0434-015	MSQUA902	TURNE361	8/05/11	8/23/11	8/12/11	8/12/11	-11	No Exceptions Taken	
UA0000-011400D01	1	AWSS CQC Plan	TG0402-018	MSQUA902	TURNE361	11/18/11	12/08/11	1/18/12	1/18/12	41	Revise and Resubmit	
WO0000-011400W0	11	Webcor / Obayashi Contractor Quality Control Plan	WO-CQC0001	30	TURNE361	10/07/10	10/25/10	10/29/10	11/03/10	4	For Record Only	
WO0000-011400W0	12	Webcor / Obayashi Contractor Quality Control Plan	WO-CQC0001	30	TURNE361	11/03/10	11/19/10	11/19/10	11/19/10	0	For Record Only	
WO0000-011400W0	13	Webcor / Obayashi Contractor Quality Control Plan	WO-CQC0001	30	TURNE361	1/04/11	1/20/11	1/14/11	1/14/11	-6	For Record Only	
WO0000-011400W0	14	Webcor / Obayashi Contractor Quality Control Plan	WO-CQC0001	30	TURNE361	3/09/11	3/25/11	3/22/11	3/29/11	-3	For Record Only	
WO0000-011400W0	15	Webcor / Obayashi Contractor Quality Control Plan	WO-CQC0001	30	TURNE361	12/09/11	12/29/11	2/09/12	12/09/11	42	For Record Only	
Spec Section 01154	5											
TA0000-011545A01	1	HASP and IIPP	TG1901-020	TRANS500	TURNE361	1/11/11	1/27/11	1/25/11	2/11/11	-2	Not Reviewed	
TA0000-011545A02	1	Health & Safety Form	TG1901-020	TRANS500	TURNE361	1/11/11	1/27/11	1/25/11	2/11/11	-2	Not Reviewed	
UA0000-011545A20	1	Injury Illness Prevention Plan (IIPP)	TG0405-003	TRINE814	TURNE361	10/26/10	11/11/10	11/18/10	11/18/10	7	No Exceptions Taken	
UA0000-011545A21	1	Employee Code of Safe Practices	TG0405-003	TRINE814	TURNE361	10/26/10	11/11/10	11/18/10	11/18/10	7	No Exceptions Taken	
UA0000-011545A22	1	MSDS	TG0405-003	TRINE814	TURNE361	10/26/10	11/11/10	11/18/10	11/18/10	7	No Exceptions Taken	
UA0000-011545B01	1	HASP	TG0434-016	MSQUA902	TURNE361	1/12/11	1/28/11	1/26/11		-2	For Record Only	
UA0000-011545B01	2	HASP	TG0434-016	MSQUA902	TURNE361	4/04/11	4/20/11	4/07/11	4/08/11	-13	For Record Only	
UA0000-011545B02	1	Health & Safety Criteria Form	TG0434-016	MSQUA902	TURNE361	1/12/11	1/28/11	1/26/11	1/26/11	-2	Not Reviewed	
WO0000-011545W0	11	Webcor / Obayashi Health & Safety Plan	WO-SAF0001	30	TURNE361	10/18/10	11/03/10	11/17/10	11/18/10	14	Make Corrections Noted	
WO0000-011545W0	12	Webcor / Obayashi Health & Safety Plan	WO-SAF0001	30	TURNE361	1/10/11	1/26/11	1/26/11	1/27/11	0	Make Corrections Noted	
Spec Section 01156	1											
UA0000-011561A29	1	Trinet SWPPP	TG0405-15	TRINE814	TURNE361	1/13/11	1/31/11	1/12/11		-19	Not Reviewed	
UA0000-011561A29	2	Trinet SWPPP	TG0405-15	TRINE814	TURNE361	1/12/11	1/28/11	5/09/11	3/15/11	101	Not Reviewed	
UA0000-011561B01	1	SWPPP	TG0434-017	MSQUA902	TURNE361	1/12/11	1/28/11	1/31/11	1/31/11	3	Not Reviewed	
Spec Section 01157	0											
UA0000-011570A01	1	Traffic Control Plan on Minna Sewer Plan	TG0405-022	TRINE814	TURNE361	11/17/10	12/03/10	12/08/10	12/08/10	5	No Exceptions Taken	
UA0000-011570A02	1	Sign Inventory Form	TG0405-027	TRINE814	TURNE361	11/16/10	12/02/10	11/29/10	11/29/10	-3	No Exceptions Taken	



Submittal #	Cycle	Submittal Name	Package	From Company	To Company	Date Sent	Date Due	Date Returned	to Sub	Days Late	Status	
Spec Section 011570 (continued)												
UA0000-011570A03	1	Traffic Plans for Utility Work on 1st Street	TG0405-008	TRINE814	TURNE361	11/01/10	11/17/10	11/18/10	11/18/10	1	Make Corrections Noted	
UA0000-011570A16	1	Trinet - Traffic Control Materials	TG0405-002	TRINE814	TURNE361	10/26/10	11/09/10	11/18/10	11/18/10	9	No Exceptions Taken	
UA0000-011570A17	1	Trinet - Traffic Control For Potholing on Minna Street	TG0405-002	TRINE814	TURNE361	10/26/10	11/09/10	11/18/10	11/18/10	9	No Exceptions Taken	
UA0000-011570A18	1	Trinet - Traffic Control for Street Light Relocation Work	TG0405-002	TRINE814	TURNE361	10/26/10	11/09/10	11/18/10	11/18/10	9	No Exceptions Taken	
UA0000-011570A19	1	Trinet - Traffic Storage and Parking Plan	TG0405-002	TRINE814	TURNE361	10/26/10	11/09/10	11/18/10	11/18/10	9	No Exceptions Taken	
UA0000-011570A26	1	Traffic Plans for Utility Work on Fremont St.	TG0405-012	TRINE814	TURNE361	11/10/10	11/26/10	11/18/10	11/18/10	-8	No Exceptions Taken	
UA0000-011570A28	1	Traffic Plans for Shaw Alley	TG0405-033	TRINE814	TURNE361	11/23/10	12/09/10	11/29/10	11/29/10	-10	No Exceptions Taken	
UA0000-011570A37	1	Trinet - Traffic Plans for Joint Trench on 2nd St	TG0405-035	TRINE814	TURNE361	1/03/11	1/19/11	12/28/10		-22	No Exceptions Taken	
UA0000-011570A37	2	Trinet - Traffic Plans for Joint Trench on 2nd St	TG0405-035	TRINE814	TURNE361	1/06/11	1/10/11	1/13/11	1/13/11	3	No Exceptions Taken	
UA0000-011570B02	1	Flagger Certificates	TG0434-019	MSQUA902	TURNE361	12/20/10	1/21/11	1/05/11	1/05/11	-16	No Exceptions Taken	
UA0000-011570B03	1	Traffic Control Plans	TG0434-019	MSQUA902	TURNE361	12/20/10	1/21/11	1/05/11	1/05/11	-16	No Exceptions Taken	
UA0000-011570B04	1	Sign Inventory Form	TG0434-021	MSQUA902	TURNE361	12/20/10	1/21/11	1/05/11	1/05/11	-16	No Exceptions Taken	
UA0000-011570B05	1	Traffic Control Plan	TG0434-026	MSQUA902	TURNE361	1/04/11	1/20/11	1/07/11	1/07/11	-13	Approved As Noted	
UA0000-011570B06	1	Traffic Control Plan	TG0434-027	MSQUA902	TURNE361	2/15/12	1/04/11	2/15/12	2/15/12	407	Closed	
UA0000-011570D04	1	AWSS Sign Inventory Form	TG0402-019	MSQUA902	TURNE361	11/18/11	12/08/11	12/30/11	12/30/11	22	No Exceptions Taken	
Spec Section 01740	0											
UA0000-017400B01	1	C&D Management Plan	TG0434-018	MSQUA902	TURNE361	1/17/11	2/02/11	1/26/11	1/26/11	-7	Not Reviewed	
Spec Section 01811	3											
WO0000-018113W0	2 1	LEED Progress Report Q1	WO-LED0002	01	TURNE361	3/22/12	4/09/12			0	Submitted	
Spec Section 02 06	30											
UA0000-020630A01	1	Pothole and Trench Logs	TG0405-024	TRINE814	TURNE361	1/21/11	2/08/11	2/09/11	2/09/11	1	Make Corrections Noted	
UA0000-020630A02	1	Subsurface Investigation Shop Drawings	TG0405-028	TRINE814	TURNE361	1/21/11	2/08/11	1/27/11	1/27/11	-12	Make Corrections Noted	
UA0000-020630A02	2	Subsurface Investigation Shop Drawings	TG0405-028	TRINE814	TURNE361	1/31/11	2/16/11	2/08/11	2/08/11	-8	Make Corrections Noted	
UG1020-020630B02	1	Potholing and Trench Logs - Natoma	TG0404-010	MSQUA902	TURNE361		4/08/11			0	Pending	
UG1020-020630C01	1	Potholing Plan	TG0401-008	MSQUA902	TURNE361	3/09/11	3/25/11	3/25/11	3/25/11	0	No Exceptions Taken	
UG1020-020630C02	1	Potholing and Trench Logs	TG0401-009	MSQUA902	TURNE361		3/14/11			0	Open	
UG1020-020630D01	1	Potholing Plan	TG0406-006	MSQUA902	TURNE361	4/07/11	4/25/11	4/28/11	4/28/11	3	Make Corrections Noted	
UG3020-020630A02	1	Subsurface Investigation Pothole Excavation Field Logs		TRINE814	TURNE361		2/08/11			0	Void	



Submittal #	Cycle	e Submittal Name	Submittal Package	From Company	To Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status	
Spec Section 02 41 00												
UA0000-024100A01	1	Demolition & Sequencing Plans	TG0405-034	TRINE814	TURNE361	12/06/10	12/22/10	1/11/11	1/11/11	20	Make Corrections Noted	
Spec Section 02 41 19												
TF2010-024119A01	1	Pile Removal - Trial Pile Extraction Plan	TG0300-300	BALFO900	TURNE361	2/14/11	3/03/11	2/25/11	2/25/11	-6	No Exceptions Taken	
TF2010-024119A01	2	Pile Removal - Trial Pile Extraction Plan	TG0300-300	BALFO900	TURNE361	3/24/11	4/11/11	3/24/11	3/24/11	-18	No Exceptions Taken	
TF2010-024119A02	1	Pile Removal - Design Report	TG0300-300	BALFO900	TURNE361	2/14/11	3/03/11	2/25/11	2/25/11	-6	Make Corrections Noted	
TF2010-024119A02	2	Pile Removal - Design Report	TG0300-300	BALFO900	TURNE361	3/24/11	4/11/11	3/24/11	3/24/11	-18	Make Corrections Noted	
TF2010-024119A03	1	Pile Removal - Production Pile Extraction Plan	TG0300-310	BALFO900	TURNE361	4/06/11	4/22/11	4/11/11	4/11/11	-11	Make Corrections Noted	
TF2010-024119A04	1	Pile Removal - Documentation of Existing Timber Piles	TG0300-311	BALFO900	TURNE361	6/07/11	6/23/11	6/27/11	6/27/11	4	Make Corrections Noted	
Spec Section 02 72	30											
UG3010-027230C01	1	Ductile Iron Pipe	TG0402-001	MSQUA902	TURNE361	10/24/11	11/09/11	10/27/11	10/27/11	-13	No Exceptions Taken	
UG3010-027230C02	1	Push On & Mechanical Joint Gaskets	TG0402-002	MSQUA902	TURNE361	10/24/11	11/09/11	11/09/11	11/09/11	0	No Exceptions Taken	
UG3010-027230C03	1	Precast Concrete Vaults	TG0402-003	MSQUA902	TURNE361	10/27/11	11/14/11			0	Submitted	
UG3010-027230C04	1	Hydrant Paint	TG0402-004	MSQUA902	TURNE361		2/21/12			0	Pending	
UG3010-027230C05	1	Warning Tape	TG0402-005	MSQUA902	TURNE361	10/24/11	11/09/11	10/27/11	10/27/11	-13	Make Corrections Noted	
UG3010-027230C06	1	Pipe End Seal	TG0402-006	MSQUA902	TURNE361		2/21/12			0	Pending	
UG3010-027230C07	1	Casing Insulators	TG0402-007	MSQUA902	TURNE361		2/21/12			0	Pending	
UG3010-027230C08	1	Sample 8" pipe w/welded stops	TG0402-008	MSQUA902	TURNE361	2/13/12	2/29/12	3/08/12	3/08/12	8	Make Corrections Noted	
UG3010-027230C09	1	Stainless steel tie rods, nuts & washers	TG0402-009	MSQUA902	TURNE361	10/24/11	11/09/11	10/27/11	10/27/11	-13	No Exceptions Taken	
UG3010-027230C10	1	Wire benders	TG0402-010	MSQUA902	TURNE361		2/21/12			0	Pending	
UG3010-027230C12	1	Pig Lead & Yarn	TG0402-012	MSQUA902	TURNE361	3/01/12	3/19/12	3/05/12	3/05/12	-14	No Exceptions Taken	
UG3010-027230C13	1	Welder Certification	TG0402-013	MSQUA902	TURNE361	2/13/12	2/29/12	2/29/12	2/29/12	0	Make Corrections Noted	
Spec Section 02063	80											
UG3020-020630A01	1	CDF Mix Design for Backfill of Investigation Trenches	TG0405-013	TRINE814	TURNE361	11/09/10	11/25/10	12/08/10	12/08/10	13	No Exceptions Taken	
Spec Section 02410	00											
UG1020-024100B01	1	Utilities Demolition Plan	TG0434-008	MSQUA902	TURNE361	4/12/11	4/28/11	5/04/11	5/04/11	6	Revise and Resubmit	
Spec Section 02723	5		_									
UG3010-002723B01	1	M Squared - AWSS Stainless Steel - Tie Rods, Nuts, and Washers	TG0404-008	MSQUA902	TURNE361	3/07/11	3/23/11	3/15/11	3/15/11	-8	Make Corrections Noted	



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Spec Section 02723 (continued)												
UG3010-002723B02	1	M Squared - AWSS Certified Journeyman Plumber Qualifications	TG0404-009	MSQUA902	TURNE361	3/08/11	3/24/11	3/15/11	3/15/11	-9	Make Corrections Noted	
UG3010-0272314	1	Pipe Links and Sleeves	TG0402-027	MSQUA902	TURNE361	12/21/11	1/10/12	12/27/11	12/27/11	-14	Make Corrections Noted	
Spec Section 027280												
UG3010-027280B02	1	Batteries and Enclosures	TG0402-028	MSQUA902	TURNE361	1/25/12	2/10/12	1/27/12	1/27/12	-14	No Exceptions Taken	
Spec Section 03 20 01												
TA1020-032001A01	1	Rebar - Instrumentation Protection Slab - Mill Test Reports	TG0300-330	BALFO900	TURNE361	9/13/11	9/29/11	9/20/11	9/20/11	-9	No Exceptions Taken	
TA1020-032001A02	1	Rebar - Welder AWS Certifications	TG0300-320	BALFO900	TURNE361	4/25/11	5/11/11	5/10/11	5/10/11	-1	No Action	
TA1020-032001A03	1	Rebar - Manufacturer's Certificate	TG0300-320	BALFO900	TURNE361	4/25/11	5/11/11	5/10/11	5/10/11	-1	Make Corrections Noted	
TA1020-032001A04	1	Rebar - Product Data (For Couplers, etc)	TG0300-320	BALFO900	TURNE361	4/25/11	5/11/11	5/10/11	5/10/11	-1	Make Corrections Noted	
TA1020-032001A04	2	Rebar - Product Data (For Couplers, etc)	TG0300-320	BALFO900	TURNE361	6/07/11	6/23/11	6/21/11	6/21/11	-2	Make Corrections Noted	
TA1020-032001A05	1	Rebar - Buttress Shop Drawings	TG0300-320	BALFO900	TURNE361	4/25/11	5/11/11	5/10/11	5/10/11	-1	Make Corrections Noted	
TA1020-032001A06	1	Rebar - Mud Slab Shop Drawings	TG0300-340	BALFO900	TURNE361		10/26/12			0	Pending	
TA1020-032001A07	1	Rebar - Mill Test Reports C-1	TG0300-331	BALFO900	TURNE361	2/09/12	2/27/12	3/01/12	3/01/12	3	No Exceptions Taken	
TA1020-032001A08	1	Rebar Mill Certs Buttress Shaft N1	TG0300-332	BALFO900	TURNE361	2/09/12	2/27/12	3/01/12	3/01/12	3	Submitted	
TA1020-032001A09	1	Rebar Mill Certificates Buttress Shaft C15	TG0300-333	BALFO900	TURNE361	2/09/12	2/27/12	3/01/12	3/01/12	3	Submitted	
TA1020-032001A10	1	Rebar Mill Certs Buttress Shaft M15	TG0300-334	BALFO900	TURNE361	2/09/12	2/27/12	2/29/12	3/01/12	2	No Exceptions Taken	
TA1020-032001A11	1	Rebar Mill Certs Buttress Shaft M1	TG0300-335	BALFO900	TURNE361	2/10/12	2/29/12	3/01/12	3/01/12	1	No Exceptions Taken	
TA1020-032001A12	1	Rebar Mill Certs D15	TG0300-336	BALFO900	TURNE361	3/16/12	4/03/12			0	For Record Only	
Spec Section 03 30	00											
TZ1010-033000A01	1	Concrete - Submittal Schedule	TG0300-350	BALFO900	TURNE361		10/26/12			0	Pending	
TZ1010-033000A02	1	Mud Slab Concrete - Mix Designs	TG0300-355	BALFO900	TURNE361		10/26/12			0	Pending	
TZ1010-033000A03	1	Mud Slab Concrete - Product Data	TG0300-355	BALFO900	TURNE361		10/26/12			0	Pending	
TZ1010-033000A04	1	Mud Slab Concrete - Joint Locations	TG0300-360	BALFO900	TURNE361		10/26/12			0	Pending	
TZ1010-033000A05	1	Mud Slab Concrete - Asbestos & PCB Certificationg	TG0300-370	BALFO900	TURNE361		10/26/12			0	Pending	
TZ1010-033000A06	1	Mud Slab Concrete - Hazardous Material Notification	TG0300-370	BALFO900	TURNE361		10/26/12			0	Pending	
Spec Section 03 30	01											
TZ1010-033001A01	1	General Site Mix - Mix Designs, Material Certs, and Product Data	TG0300-380	BALFO900	TURNE361	3/17/11	4/04/11	3/25/11	3/25/11	-10	Make Corrections Noted	



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Spec Section 03 30 01 (continued)											
TZ1010-033001A02	1	CLSM Mix - Mix Designs, Material Certs, and Product Data (F4E13878)	TG0300-381	BALFO900	TURNE361	3/28/11	4/13/11	3/30/11	3/30/11	-14	Make Corrections Noted
TZ1010-033001A04	1	Buttress Concrete - Proposed Trial Batch Test Program	TG0300-385	BALFO900	TURNE361	3/11/11	3/29/11	3/25/11	3/25/11	-4	Make Corrections Noted
TZ1010-033001A08	1	Buttress Concrete - LEED Submittal	TG0300-390	BALFO900	TURNE361	7/08/11	7/26/11	7/27/11	7/27/11	1	No Exceptions Taken
TZ1010-033001A09	1	Buttress Concrete - Closeout Submittal / Record Documents	TG0300-400	BALFO900	TURNE361	12/30/11	1/17/12			0	Rejected
TZ1010-033001A09	2	Buttress Concrete - Closeout Submittal / Record Documents	TG0300-400	BALFO900	TURNE361	1/03/12	1/19/12			0	Rejected
TZ1010-033001A10	1	Buttress Concrete - Type B Secondary Shaft Mix 960PC3Z3	TG0300-386	BALFO900	TURNE361	4/20/11	5/06/11	5/05/11	5/09/11	-1	Revise and Resubmit
TZ1010-033001A10	2	Buttress Concrete - Type B Secondary Shaft Mix 960PC3Z3	TG0300-386	BALFO900	TURNE361	10/04/11	10/20/11	10/06/11	10/11/11	-14	Revise and Resubmit
121010-033001A10	3	Buttress Concrete - Type B Secondary Shaft Mix 960PC3Z3	TG0300-386	BALFO900	TURNE361	2/15/12	3/02/12	2/22/12	2/22/12	-9	Revise and Resubmit
TZ1010-033001A10	4	Buttress Concrete - Type B Secondary Shaft Mix 960PC3Z3	TG0300-386	BALFO900	TURNE361	3/05/12	3/21/12	3/06/12	3/07/12	-15	Revise and Resubmit
TZ1010-033001A11	1	CLSM Mix F4E138N8 - Mix Designs, Material Certs, and Product Data	TG0300-382	BALFO900	TURNE361	4/20/11	5/06/11	5/05/11	5/09/11	-1	No Exceptions Taken
TZ1010-033001A12	1	CLSM MIX F4E138P8 - MIX Designs, Material Certs, and Product Data	TG0300-382	BALF0900	TURNE361	4/20/11	5/06/11	5/05/11	5/09/11	-1	Noted
TZ1010-033001A13	1	Buttress Shoring Work Pad Concrete Mix Design - Cemex Mix#1518445	TG0300-383	BALFO900	TURNE361	5/23/11	6/09/11	6/06/11	6/06/11	-3	For Record Only
1Z1010-033001A14	1	CLSM - Buttress Shoring Work Pad - Cemex Mix #1518444	TG0300-383	BALFO900	TURNE361	5/23/11	6/09/11	6/06/11	6/06/11	-3	For Record Only
TZ1010-033001A15	1	#85AEC3B6 & Logger Temperature Data	TG0300-387	BALFO900	TURNE361	7/08/11	7/26/11	7/21/11	8/02/11	-5	Noted
TZ1010-033001A15	2	Primary Shaft Buttress Mix Design - Mix #85AEC3B6 & Logger Temperature Data	TG0300-387	BALFO900	TURNE361	8/10/11	8/26/11	8/23/11	8/24/11	-3	Noted
TZ1010-033001A15	3	Primary Shaft Buttress Mix Design - Mix #85AEC3B6 & Logger Temperature Data	TG0300-387	BALFO900	TURNE361	10/04/11	10/20/11	10/06/11	10/11/11	-14	Noted
TZ1010-033001A16	1	Primary Shaft Buttress Mix Design - Mix #86AEC3A6	TG0300-387	BALFO900	TURNE361	7/08/11	7/26/11	7/21/11	8/02/11	-5	Noted
TZ1010-033001A16	2	#86AEC3A6	TG0300-387	BALF0900	TURNE361	8/10/11	8/26/11	8/23/11	8/24/11	-3	Noted
TZ1010-033001A17	1	#87AEC3A6	TG0300-387	BALF0900	TURNE361	7/08/11	7/26/11	7/21/11	8/02/11	-5	Noted
TZ1010-033001A17	2	#87AEC3A6	TG0300-387	BALFO900	TURNE361	8/10/11	8/26/11	8/23/11	8/24/11	-3	Noted
121010-033001A18	1	Submittal	TG0300-384	BALFO900	IURNE361	0/00/11/	8/19/11	0/10/11	0/10/11	0	Void
121010-033001A19	1	#8FAEC3P6	TG0300-388	BALF0900	IURNE361	8/30/11	9/16/11	9/13/11	9/13/11	-3	Noted
1Z1010-033001A19	2	Buttress Type 'A' Primary Shaft Mix Design - Mix #8FAEC3P6	1G0300-388	BALFO900	IURNE361	10/04/11	10/20/11	10/06/11	10/11/11	-14	Noted


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Spec Section 03 30	01 (co	ontinued)									
TZ1010-033001A20	1	Buttress Type 'A' Primary Shaft Mix Design - Mix #8FAEC3N6	TG0300-388	BALFO900	TURNE361	8/30/11	9/16/11	9/13/11	9/13/11	-3	Make Corrections Noted
TZ1010-033001A20	2	Buttress Type 'A' Primary Shaft Mix Design - Mix #8FAEC3N6	TG0300-388	BALFO900	TURNE361	11/28/11	12/14/11	12/21/11	12/21/11	7	Make Corrections Noted
TZ1010-033001A21	1	Buttress Type 'A' Primary Shaft Mix Design - Mix #8DGEC3P6	TG0300-388	BALFO900	TURNE361	8/30/11	9/16/11	9/13/11	9/13/11	-3	No Exceptions Taken
TZ1010-033001A22	1	Concrete - Sechelt Coarse Aggregate	TG0300-389	BALFO900	TURNE361	10/04/11	10/20/11	10/10/11		-10	No Exceptions Taken
TZ1010-033001A22	2	Concrete - Sechelt Coarse Aggregate	TG0300-389	BALFO900	TURNE361	10/10/11	10/26/11	10/14/11	10/14/11	-12	No Exceptions Taken
TZ1010-033001A23	1	Type "A" Primary Burttress Shaft Concrete Additional Mix Designs II	TG0300-391	BALFO900	TURNE361	1/11/12	1/27/12	2/03/12	2/06/12	7	Rejected
Spec Section 03 40	10										
UG3020-034010B08	1	Precast Catch Basin	TG0404-005	MSQUA902	TURNE361	2/10/11	3/01/11	2/16/11	2/16/11	-13	Rejected
UG3020-034010B08	2	Precast Catch Basin	TG0404-005	MSQUA902	TURNE361	2/25/11	3/15/11	3/09/11	3/09/11	-6	Rejected
UG3020-034010B08	3	Precast Catch Basin	TG0404-005	MSQUA902	TURNE361	3/25/11	4/12/11	3/30/11	3/30/11	-13	Rejected
UG3020-034010B09	1	Precast Supplier Conform Letter (ASTM C150)	TG0404-005	MSQUA902	TURNE361	2/10/11	3/01/11	2/16/11	2/16/11	-13	No Exceptions Taken
UG3020-034010B09	2	Precast Supplier Conform Letter (ASTM C150)	TG0404-005	MSQUA902	TURNE361	2/25/11	3/15/11	3/09/11	3/09/11	-6	No Exceptions Taken
Spec Section 03110	0										
UG3020-031100B01	1	Shop Drawings -Cast-in place Manhole	TG0404-003	MSQUA902	TURNE361	1/17/11	2/02/11	1/28/11	1/28/11	-5	No Exceptions Taken
UG3020-031100B02	1	Rebar & Tie Wire	TG0404-003	MSQUA902	TURNE361	1/17/11	2/02/11	1/28/11	1/28/11	-5	No Exceptions Taken
UG3020-031100B03	1	Form Ties	TG0404-003	MSQUA902	TURNE361	1/17/11	2/02/11	1/28/11	1/28/11	-5	No Exceptions Taken
UG3020-031100B04	1	Formwork Material	TG0404-003	MSQUA902	TURNE361	1/17/11	2/02/11	1/28/11	1/28/11	-5	No Exceptions Taken
Spec Section 03301	0										
UG2010-033010B01	1	Cement-Certifications	TG0434-025	MSQUA902	TURNE361	12/20/10	1/10/11	12/30/10	8/19/11	-11	No Exceptions Taken
UG2010-033010B02	1	Aggregates-proof of compatibility w/cement	TG0434-025	MSQUA902	TURNE361	12/20/10	1/10/11	12/30/10	8/19/11	-11	No Exceptions Taken
UG2010-033010B03	1	Admixtures-Cert of Conformance	TG0434-025	MSQUA902	TURNE361	12/20/10	1/10/11	12/30/10	8/19/11	-11	No Exceptions Taken
UG2010-033010B04	1	Concrete Mix - Manhole Base	TG0434-025	MSQUA902	TURNE361	12/20/10	1/10/11	12/30/10	8/19/11	-11	No Exceptions Taken
UG2010-033010B05	1	Concrete Mix - Street Base	TG0434-025	MSQUA902	TURNE361	4/18/11	5/04/11	4/28/11	8/19/11	-6	No Exceptions Taken
UG2010-033010B05	2	Concrete Mix - Street Base	TG0434-025	MSQUA902	TURNE361	8/19/11	9/07/11	8/25/11	8/25/11	-13	No Exceptions Taken
UG2010-033010B05	3	Concrete Mix - Street Base	TG0434-025	MSQUA902	TURNE361	9/13/11	9/29/11	10/05/11	10/05/11	6	No Exceptions Taken
UG2010-033010B05	4	Concrete Mix - Street Base	TG0434-025	MSQUA902	TURNE361	10/11/11	10/27/11	10/24/11	10/24/11	-3	No Exceptions Taken
UG2010-033010B06	1	Concrete Mix - Thrust Blocks	TG0434-025	MSQUA902	TURNE361	12/20/10	1/10/11	12/30/10	8/19/11	-11	No Exceptions Taken
UG2010-033010B07	1	Curb and Gutter Mix	TG0434-025	MSQUA902	TURNE361	5/19/11	6/07/11	5/26/11	8/19/11	-12	No Exceptions Taken
UG2010-033010B08	1	Sidewalk Mix	TG0434-025	MSQUA902	TURNE361	5/19/11	6/07/11	5/26/11	8/19/11	-12	No Exceptions Taken



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Spec Section 03301	0 (cor	ntinued)									
UG3020-033010A01	1	Concrete Mix Design for CIP Manhole Foundations & Structures	TG0405-004	TRINE814	TURNE361	10/27/10	11/12/10	11/18/10	11/18/10	6	No Exceptions Taken
UG4020-033010A02	1	Rebar Shop Drawing for Light Pole Foundations	TG0405-007	TRINE814	TURNE361	10/29/10	11/16/10	11/18/10	11/18/10	2	No Exceptions Taken
UG4020-033010A03	1	Concrete Mix Design for Light Pole Foundations	TG0405-007	TRINE814	TURNE361	10/29/10	11/16/10	11/18/10	11/18/10	2	No Exceptions Taken
Spec Section 03401	0										
UG3020-034010B01	1	Precast Manhole	TG0404-004	MSQUA902	TURNE361	1/18/11	2/03/11	1/26/11	1/26/11	-8	No Exceptions Taken
UG3020-034010B03	1	Manhole Frame and Cover	TG0404-004	MSQUA902	TURNE361	1/18/11	2/03/11	1/26/11	1/26/11	-8	No Exceptions Taken
UG3020-034010B04	1	Precast Catch Basin	TG0404-004	MSQUA902	TURNE361	1/18/11	2/03/11	1/26/11	1/26/11	-8	No Exceptions Taken
UG3020-034010B05	1	Catch Basin Frame & Grate	TG0404-004	MSQUA902	TURNE361	1/18/11	2/16/11	1/26/11	1/26/11	-21	Make Corrections Noted
UG3020-034010B06	1	Supplier Conform Letter (ASTM C150)	TG0404-004	MSQUA902	TURNE361	1/18/11	2/03/11	1/26/11	1/26/11	-8	No Exceptions Taken
Spec Section 05 12	01										
TA2010-051201A01	1	Structural Steel - Shop Drawings	TG0300-410	BALFO900	TURNE361	3/08/11	3/24/11	3/29/11	3/29/11	5	Make Corrections Noted
TA2010-051201A02	1	Structural Steel - Erection Drawings	TG0300-410	BALFO900	TURNE361	3/08/11	3/24/11	3/29/11	3/29/11	5	No Exceptions Taken
TA2010-051201A02	2	Structural Steel - Erection Drawings	TG0300-410	BALFO900	TURNE361	4/05/11	4/21/11	4/19/11	4/19/11	-2	No Exceptions Taken
TA2010-051201A03	1	Structural Steel - Contractor Certificate of Compliance for Materials	TG0300-412	BALFO900	TURNE361	4/29/11	5/17/11	5/11/11	5/11/11	-6	No Exceptions Taken
TA2010-051201A04	1	Structural Steel - Manufacturer's Test Reports and Certifications	TG0300-412	BALFO900	TURNE361	4/29/11	5/17/11	5/11/11	5/11/11	-6	Make Corrections Noted
TA2010-051201A05	1	Structural Steel - Weld Procedures	TG0300-410	BALFO900	TURNE361	3/08/11	3/24/11	3/29/11	3/29/11	5	Make Corrections Noted
TA2010-051201A06	1	Structural Steel - Fabricators identification mark system	TG0300-410	BALFO900	TURNE361	3/08/11	3/24/11	3/29/11	3/29/11	5	Make Corrections Noted
TA2010-051201A07	1	Structural Steel - LEED Submittal	TG0300-412	BALFO900	TURNE361	4/29/11	5/17/11	5/11/11	5/11/11	-6	No Exceptions Taken
TA2010-051201A07	2	Structural Steel - LEED Submittal	TG0300-412	BALFO900	TURNE361	5/31/11	6/16/11	6/16/11	6/16/11	0	No Exceptions Taken
TA2010-051201A08	1	Structural Steel - Contractors QA Plan	TG0300-413	BALFO900	TURNE361	5/04/11	5/20/11	5/23/11	5/23/11	3	No Exceptions Taken
TA2010-051201A08	2	Structural Steel - Contractors QA Plan	TG0300-413	BALFO900	TURNE361	6/07/11	6/23/11	6/21/11	6/21/11	-2	No Exceptions Taken
TA2010-051201A09	1	Structural Steel - Qualifications of QA Inspectors	TG0300-413	BALFO900	TURNE361	5/04/11	5/20/11	5/23/11	5/23/11	3	For Record Only
TA2010-051201A10	1	Structural Steel - Qualifications of Welders	TG0300-411	BALFO900	TURNE361	4/25/11	5/11/11	5/12/11	5/12/11	1	For Record Only
TA2010-051201A11	1	Structural Steel - Add'l Qualifications of Welders	TG0300-411	BALFO900	TURNE361	4/28/11	5/16/11	5/12/11	5/12/11	-4	For Record Only
TA2010-051201A12	1	Structural Steel - Weld Procedures for Inclinometer Attachment Inside CDSM Shoring Wall	TG0300-414	BALFO900	TURNE361	5/13/11	6/01/11	5/25/11	5/25/11	-7	Make Corrections Noted
TA2010-051201A13	1	Structural Steel - Welding Wire Procedure for CDSM Beam Splicing	TG0300-415	BALFO900	TURNE361	5/13/11	6/01/11	5/23/11	5/23/11	-9	Make Corrections Noted
TA2010-051201A14	1	Structural Steel - Contractor Certificate of Compliance for Materials 2	TG0300-801	BALFO900	TURNE361	6/07/11	6/23/11	6/21/11	6/21/11	-2	No Exceptions Taken

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Submittal #	Cycle	Submittal Name	Submittal Package	From Company	To Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status
Spec Section 05 12	01 (co	ontinued)									
TA2010-051201A15	1	Structural Steel - Manufacturer's Test Reports and Certifications 2	TG0300-801	BALFO900	TURNE361	6/07/11	6/23/11	6/21/11	6/21/11	-2	No Exceptions Taken
TA2010-051201A16	1	Structural Steel - Additional Weld Procedure for CDSM Beam Splicing & Product Data - 30degree Welding	TG0300-416	BALFO900	TURNE361	6/30/11	7/19/11	7/13/11	7/13/11	-6	No Exceptions Taken
TA2010-051201A16	2	Structural Steel - Additional Weld Procedure for CDSM Beam Splicing & Product Data - 30degree Welding	TG0300-416	BALFO900	TURNE361	7/13/11	7/29/11	7/18/11	7/18/11	-11	No Exceptions Taken
TA2010-051201A17	1	Structural Steel - Contractor Certificate of Compliance for Materials 3	TG0300-802	BALFO900	TURNE361	7/20/11	8/05/11	8/03/11	8/03/11	-2	No Exceptions Taken
TA2010-051201A17	2	Structural Steel - Contractor Certificate of Compliance for Materials 3	TG0300-802	BALFO900	TURNE361	8/10/11	8/26/11	8/23/11	8/23/11	-3	No Exceptions Taken
TA2010-051201A18	1	Structural Steel - Manufacturer's Test Reports and Certifications 3	TG0300-802	BALFO900	TURNE361	7/20/11	8/05/11	8/03/11	8/03/11	-2	No Exceptions Taken
TA2010-051201A18	2	Structural Steel - Manufacturer's Test Reports and Certifications 3	TG0300-802	BALFO900	TURNE361	8/10/11	8/26/11	8/23/11	8/23/11	-3	No Exceptions Taken
Spec Section 11 57	00										
UG3010-011570B01	1	Traffic Control Plans	TG0402-014	MSQUA902	TURNE361	9/08/11	9/26/11	10/05/11	10/05/11	9	No Exceptions Taken
UG3010-011570B01	2	Traffic Control Plans	TG0402-014	MSQUA902	TURNE361	1/25/12	2/10/12	2/15/12	2/15/12	5	No Exceptions Taken
Spec Section 11050	)										
UA0000-011050B01	1	Survey & Control Points	TG0434-023	MSQUA902	TURNE361	3/08/11	3/24/11	3/15/11	3/15/11	-9	No Exceptions Taken
Spec Section 11310	)										
UA0000-011310C01	1	Construction Schedule Submittal (PDF)	TG0401-002	MSQUA902	TURNE361	2/14/11	3/03/11	3/09/11	3/09/11	6	No Exceptions Taken
UA0000-011310C01	2	Construction Schedule Submittal (PDF)	TG0401-002	MSQUA902	TURNE361	3/10/11	3/28/11	3/30/11	3/30/11	2	No Exceptions Taken
UA0000-011310C02	1	Construction Schedule Submittal Narrative	TG0401-002	MSQUA902	TURNE361	2/14/11	3/03/11	3/09/11	3/09/11	6	No Exceptions Taken
UA0000-011310C02	2	Construction Schedule Submittal Narrative	TG0401-002	MSQUA902	TURNE361	3/10/11	3/28/11	3/30/11	3/30/11	2	No Exceptions Taken
UA0000-011310C03	1	Construction Schedule Submittal (XER)	TG0401-002	MSQUA902	TURNE361	2/14/11	3/03/11	3/09/11	3/09/11	6	No Exceptions Taken
UA0000-011310C03	2	Construction Schedule Submittal (XER)	TG0401-002	MSQUA902	TURNE361	3/10/11	3/28/11	3/30/11	3/30/11	2	No Exceptions Taken
Spec Section 11340	)										
UA0000-011340B02	1	TG04.1 Executed Contract	TG0401-001	MSQUA902	TURNE361	2/01/11	2/01/11	2/03/11	2/04/11	2	For Record Only
Spec Section 16 01	00										
UG3010-160100C01	1	Electrical Materials	TG0402-015	MSQUA902	TURNE361	11/01/11	11/17/11	11/18/11	11/18/11	1	No Exceptions Taken
UG3010-160100C01	2	Electrical Materials	TG0402-015	MSQUA902	TURNE361	3/14/12	3/30/12	3/27/12	3/27/12	-3	No Exceptions Taken
Spec Section 16010	)										
UG3010-016010B02	1	AWSS Antenna	TG0402-026	MSQUA902	TURNE361	11/18/11	12/08/11	12/20/11	12/22/11	12	No Exceptions Taken
Spec Section 20630	)										



Submittal #	Cycle	Submittal Name	Submittal Package	From Company	To Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status
Spec Section 20630	) (cont	inued)									
UG1020-020630B01	1	Potholing Plan	TG0434-024	MSQUA902	TURNE361	12/20/10	1/21/11	12/30/10	1/03/11	-22	No Exceptions Taken
Spec Section 31 00	00										
TA2010-310000A01	1	Mass Excavation - Competent Person(s)	TG0300-420	BALFO900	TURNE361	11/09/11	11/29/11	11/22/11	11/22/11	-7	For Record Only
TA2010-310000A02	1	Mass Excavation - Quality Plan	TG0300-420	BALFO900	TURNE361	11/09/11	11/29/11	11/22/11	11/22/11	-7	No Exceptions Taken
TA2010-310000A03	1	Mass Excavation - Material Samples	TG0300-430	BALFO900	TURNE361	11/09/11	11/29/11	11/23/11	11/28/11	-6	No Exceptions Taken
TA2010-310000A04	1	Mass Excavation - Material Backfill	TG0300-440	BALFO900	TURNE361	11/09/11	11/29/11	11/23/11	11/28/11	-6	Make Corrections Noted
TA2010-310000A05	1	Mass Excavation LEED Submittal	TG0300-450	BALFO900	TURNE361	11/09/11	11/29/11	11/23/11	11/28/11	-6	Make Corrections Noted
TA2010-310000A06	1	Mass Excavation Work Plan	TG0300-460	BALFO900	TURNE361	12/27/11	1/12/12	12/08/11	12/09/11	-35	For Record Only
TA2010-310000A06	2	Mass Excavation Work Plan	TG0300-460	BALFO900	TURNE361	12/27/11	1/12/12	1/10/12	1/10/12	-2	For Record Only
TA2010-310000A08	1	Earthwork Closeout	TG0300-480	BALFO900	TURNE361		11/06/13			0	Pending
Spec Section 31 09	13										
TA2010-310913A01	1	Geotechnical Instrumentation and Monitoring	TG0300-490	BALFO900	TURNE361	4/25/11	5/11/11	5/10/11	5/10/11	-1	No Exceptions Taken
Spec Section 31 23	10										
UA3020-312310A02	1	Underground Detectable Warning Tape for JT Utilities	TG0405-038	TRINE814	TURNE361	1/03/11	1/19/11	1/18/11	1/18/11	-1	No Exceptions Taken
UA3020-312310A03	1	Gradation Analysis of Sand Bedding for AT&T Ducts & Gas Pipe	TG0405-038	TRINE814	TURNE361	1/03/11	1/19/11	1/18/11	1/18/11	-1	No Exceptions Taken
UA3020-312310A04	1	Import Backfill Material - Sieve Analysis	TG0405-043	TRINE814	TURNE361	1/18/11	2/03/11	1/28/11	1/28/11	-6	Make Corrections Noted
UA3020-312310A04	2	Import Backfill Material - Sieve Analysis	TG0405-043	TRINE814	TURNE361	2/02/11	2/18/11	2/11/11	2/11/11	-7	Make Corrections Noted
UA3020-312310A05	1	Import Backfill Material - Sample	TG0405-043	TRINE814	TURNE361	2/02/11	2/18/11	2/11/11	2/11/11	-7	Make Corrections Noted
Spec Section 31 23	13										
TZ1030-312313A01	1	Construction of Work Platform for Equipment	TG0300-500	BALFO900	TURNE361	4/20/11	5/06/11	5/05/11	5/09/11	-1	Make Corrections Noted
TZ1030-312313A02	1	Subgrade Preparation LEED Submittal	TG0300-510	BALFO900	TURNE361	7/13/11	7/29/11	7/22/11	7/26/11	-7	Revise and Resubmit
TZ1030-312313A02	2	Subgrade Preparation LEED Submittal	TG0300-510	BALFO900	TURNE361	3/05/12	3/21/12	3/09/12	3/09/12	-12	Revise and Resubmit
Spec Section 31 23	19										
TA2010-312319A01	1	Dewatering - Layout Drawings and Design Report	TG0300-520	BALFO900	TURNE361	4/25/11	5/11/11	5/10/11	5/10/11	-1	Make Corrections Noted
TA2010-312319A02	1	Dewatering - Product Data	TG0300-520	BALFO900	TURNE361	4/25/11	5/11/11	5/10/11	5/10/11	-1	Make Corrections Noted
TA2010-312319A03	1	Dewatering - Design Data	TG0300-520	BALFO900	TURNE361	4/25/11	5/11/11	5/10/11	5/10/11	-1	For Record Only
TA2010-312319A03	2	Dewatering - Design Data	TG0300-520	BALFO900	TURNE361	1/20/12	2/07/12	2/06/12	2/06/12	-1	For Record Only



Submittal #	Cycle	e Submittal Name	Submittal Package	From Company	To Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status
Spec Section 31 23	19 (cc	ontinued)									
TA2010-312319A03	3	Dewatering - Design Data	TG0300-520	BALFO900	TURNE361	2/13/12	2/29/12	2/29/12	2/29/12	0	For Record Only
TA2010-312319A03	4	Dewatering - Design Data	TG0300-520	BALFO900	TURNE361		10/04/11		3/14/12	0	For Record Only
TA2010-312319A04	1	Dewatering - Initial Installation Report	TG0300-521	BALFO900	TURNE361		10/04/11			0	Pending
TA2010-312319A05	1	Dewatering Closeout - Record Documents and Transfer Ownership	TG0300-530	BALFO900	TURNE361		12/23/14			0	Pending
TA2010-312319A06	1	Dewatering - Contractor Qualifications	TG0300-520	BALFO900	TURNE361	4/25/11	5/11/11	5/10/11	5/10/11	-1	No Exceptions Taken
TA2010-312319A07	1	Dewatering - System Pump Test	TG0300-522	BALFO900	TURNE361		1/02/12			0	Pending
TA2010-312319A08	1	Dewatering - System Pumping Data (Weekly)	TG0300-525	BALFO900	TURNE361	3/27/12	4/12/12	3/27/12	3/27/12	-16	Not Used
TA2010-312319A09	1	Dewatering - Groundwater Elevation Monitoring Data (Weekly)	TG0300-525	BALFO900	TURNE361	3/27/12	4/12/12	3/27/12	3/27/12	-16	Not Used
TA2010-312319A10	1	Dewatering for Pre-trenching Only	TG0300-527	BALFO900	TURNE361	4/25/11	5/11/11	5/10/11	5/10/11	-1	Make Corrections Noted
Spec Section 31 55	00		_	_							_
TA2010-310913A02	1	Internal Bracing - Performance Monitoring	TG0300-491	BALFO900	TURNE361	12/20/11	1/09/12	2/08/12	2/08/12	30	Submitted
TA2010-310913A02	2	Internal Bracing - Performance Monitoring	TG0300-491	BALFO900	TURNE361	2/24/12	3/13/12			0	Submitted
TA2010-315500A01	1	Internal Bracing - Engineer of Record Information and Qualifications	TG0300-540	BALFO900	TURNE361	3/02/11	3/18/11	3/25/11	3/25/11	7	No Exceptions Taken
TA2010-315500A02	1	Internal Bracing - Peer Reviewer Information and Qualifications	TG0300-540	BALFO900	TURNE361	3/02/11	3/18/11	3/25/11	3/25/11	7	No Exceptions Taken
TA2010-315500A02	2	Internal Bracing - Peer Reviewer Information and Qualifications	TG0300-540	BALFO900	TURNE361	4/12/11	4/28/11	4/12/11	4/12/11	-16	No Exceptions Taken
TA2010-315500A03	1	Internal Bracing - Installer Information and Qualifications	TG0300-543	BALFO900	TURNE361	11/17/11	12/07/11	12/16/11	12/16/11	9	Submitted
TA2010-315500A03	2	Internal Bracing - Installer Information and Qualifications	TG0300-543	BALFO900	TURNE361	2/23/12	3/12/12	2/10/12	2/10/12	-31	Submitted
TA2010-315500A03	3	Internal Bracing - Installer Information and Qualifications	TG0300-543	BALFO900	TURNE361		10/18/11		2/23/12	0	Submitted
TA2010-315500A04	1	Internal Bracing - All Procedures for Preloading, Incl. Certified Calibration Charts for Jack-gages	TG0300-545	BALFO900	TURNE361	2/21/12	3/08/12	2/23/12	2/23/12	-14	For Record Only
TA2010-315500A05	1	Internal Bracing - Manufacturer Certifications (New Steel) or Coupon Testing (Salvage Steel)	TG0300-544	BALFO900	TURNE361	3/02/12	3/20/12	2/16/12	2/16/12	-33	Revise and Resubmit
TA2010-315500A05	2	Internal Bracing - Manufacturer Certifications (New Steel) or Coupon Testing (Salvage Steel)	TG0300-544	BALFO900	TURNE361	3/05/12	3/21/12		3/02/12	0	Revise and Resubmit
TA2010-315500A05	3	Internal Bracing - Manufacturer Certifications (New Steel) or Coupon Testing (Salvage Steel)	TG0300-544	BALFO900	TURNE361	3/20/12	4/05/12	3/22/12	3/22/12	-14	Revise and Resubmit
TA2010-315500A06	1	Internal Bracing - Weld Procedures	TG0300-547	BALFO900	TURNE361	12/19/11	1/06/12	12/16/11	12/16/11	-21	No Exceptions Taken
TA2010-315500A06	2	Internal Bracing - Weld Procedures	TG0300-547	BALFO900	TURNE361	1/04/12	1/20/12	1/06/12	1/06/12	-14	No Exceptions Taken
TA2010-315500A07	1	Internal Bracing - Welder Certifications	TG0300-546	BALFO900	TURNE361	11/09/11	11/29/11	12/16/11	12/16/11	17	No Exceptions Taken
TA2010-315500A08	1	Internal Bracing - QC/Construction Plan	TG0300-543	BALFO900	TURNE361	11/17/11	12/07/11	12/16/11	12/16/11	9	Submitted
TA2010-315500A08	2	Internal Bracing - QC/Construction Plan	TG0300-543	BALFO900	TURNE361	2/23/12	3/12/12	2/10/12	2/10/12	-31	Submitted

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Spec Section 31 55	00 (co	ntinued)									
TA2010-315500A08	3	Internal Bracing - QC/Construction Plan	TG0300-543	BALFO900	TURNE361		10/18/11		2/23/12	0	Submitted
TA2010-315500A09	1	Internal Bracing - Inspection Plan	TG0300-543	BALFO900	TURNE361	11/17/11	12/07/11	12/16/11	12/16/11	9	Submitted
TA2010-315500A09	2	Internal Bracing - Inspection Plan	TG0300-543	BALFO900	TURNE361	2/23/12	3/12/12	2/10/12	2/10/12	-31	Submitted
TA2010-315500A09	3	Internal Bracing - Inspection Plan	TG0300-543	BALFO900	TURNE361		10/18/11		2/23/12	0	Submitted
TA2010-315500A10	1	Internal Bracing - 50% Design Drawings & Calculations	TG0300-541	BALFO900	TURNE361	3/08/11	3/24/11	3/29/11	3/29/11	5	For Record Only
TA2010-315500A11	1	Internal Bracing - Construction Dwgs & Specs	TG0300-542	BALFO900	TURNE361	5/04/11	5/20/11	6/02/11	6/02/11	13	Make Corrections Noted
TA2010-315500A11	2	Internal Bracing - Construction Dwgs & Specs	TG0300-542	BALFO900	TURNE361	7/11/11	7/27/11	8/03/11	8/04/11	7	Make Corrections Noted
TA2010-315500A11	3	Internal Bracing - Construction Dwgs & Specs	TG0300-542	BALFO900	TURNE361	10/17/11	6/01/11	10/17/11	10/19/11	138	Make Corrections Noted
TA2010-315500A12	1	Internal Bracing - Engineering Calcs	TG0300-542	BALFO900	TURNE361	5/04/11	5/20/11	6/02/11	6/02/11	13	For Record Only
TA2010-315500A12	2	Internal Bracing - Engineering Calcs	TG0300-542	BALFO900	TURNE361	7/11/11	7/27/11	8/03/11	8/04/11	7	For Record Only
TA2010-315500A12	3	Internal Bracing - Engineering Calcs	TG0300-542	BALFO900	TURNE361	10/17/11	6/01/11	10/17/11	10/19/11	138	For Record Only
TA2010-315500A13	1	Internal Bracing - Basis of Design Summary	TG0300-542	BALFO900	TURNE361	5/04/11	5/20/11	6/02/11	6/02/11	13	Make Corrections Noted
TA2010-315500A14	1	Internal Bracing - Weld Procedures (Shop Welding)	TG0300-548	BALFO900	TURNE361	11/17/11	12/07/11	1/06/12	1/09/12	30	Submitted
TA2010-315500A14	2	Internal Bracing - Weld Procedures (Shop Welding)	TG0300-548	BALFO900	TURNE361	2/16/12	3/05/12	2/14/12	2/16/12	-20	Submitted
TA2010-315500A14	3	Internal Bracing - Weld Procedures (Shop Welding)	TG0300-548	BALFO900	TURNE361	3/02/12	3/20/12			0	Submitted
TA2010-315500A15	1	Internal Bracing - Weld Procedures - Additional	TG0300-549	BALFO900	TURNE361	12/05/11	12/21/11	12/30/11		9	No Exceptions Taken
TA2010-315500A15	2	Internal Bracing - Weld Procedures - Additional	TG0300-549	BALFO900	TURNE361	12/30/11	1/17/12	1/06/12	1/06/12	-11	No Exceptions Taken
TZ1030-315500A14	1	Internal Bracing - Responses to URS Comments	TG0300-542	BALFO900	TURNE361	7/11/11	7/27/11	8/03/11	8/04/11	7	For Record Only
TZ1030-315500A14	2	Internal Bracing - Responses to URS Comments	TG0300-542	BALFO900	TURNE361	10/17/11	7/27/11	10/17/11	10/19/11	82	For Record Only
TZ1030-315500A15	1	Internal Bracing - Re-bracing	TG0300-550	BALFO900	TURNE361		4/02/13			0	Pending
Spec Section 31 56	13										
TA2010-315613A01	1	Shoring Wall - Equipment Specifications and Calibration Data	TG0300-580	BALFO900	TURNE361	3/09/11	3/25/11	3/25/11	3/25/11	0	Make Corrections Noted
TA2010-315613A02	1	Shoring Wall - Work Plan	TG0300-580	BALFO900	TURNE361	3/09/11	3/25/11	3/25/11	3/25/11	0	Make Corrections Noted
TA2010-315613A02	2	Shoring Wall - Work Plan	TG0300-580	BALFO900	TURNE361	4/18/11	5/04/11	5/03/11	5/03/11	-1	Make Corrections Noted
TA2010-315613A03	1	Shoring Wall - Cement Grout Mix Designs	TG0300-580	BALFO900	TURNE361	3/09/11	3/25/11	3/25/11	3/25/11	0	Make Corrections Noted
TA2010-315613A03	2	Shoring Wall - Cement Grout Mix Designs	TG0300-580	BALFO900	TURNE361	6/13/11	6/29/11	6/29/11	6/29/11	0	Make Corrections Noted
TA2010-315613A04	1	Shoring Wall - Waterproofing plan	TG0300-580	BALFO900	TURNE361	3/09/11	3/25/11	3/25/11	3/25/11	0	No Exceptions Taken

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Spec Section 31 56	13 (cc	ontinued)									
TA2010-315613A04	2	Shoring Wall - Waterproofing plan	TG0300-580	BALFO900	TURNE361	4/18/11	5/04/11	5/03/11	5/03/11	-1	No Exceptions Taken
TA2010-315613A05	1	Shoring Wall - LEED Submittal	TG0300-581	BALFO900	TURNE361	7/13/11	7/29/11	7/22/11	7/26/11	-7	No Exceptions Taken
TA2010-315613A05	2	Shoring Wall - LEED Submittal	TG0300-581	BALFO900	TURNE361	8/10/11	8/26/11	8/24/11	8/25/11	-2	No Exceptions Taken
TA2010-315613A07	1	Shoring Wall - Quality Assurance Plan	TG0300-580	BALFO900	TURNE361	3/09/11	3/25/11	3/25/11	3/25/11	0	Make Corrections Noted
TA2010-315613A08	1	Shoring Wall - CDSM Test Section No. 2 (Zone 1)	TG0300-582	30	TURNE361	8/24/11	9/12/11	8/31/11	9/01/11	-12	No Exceptions Taken
TA2010-315613A11	1	Shoring Wall - Record Documents - As Built Drawings and Unusual Conditions Encountered	TG0300-590	BALFO900	TURNE361	12/21/11	1/10/12	1/06/12	1/09/12	-4	Submitted
TA2010-315613A11	2	Shoring Wall - Record Documents - As Built Drawings and Unusual Conditions Encountered	TG0300-590	BALFO900	TURNE361	3/02/12	3/20/12			0	Submitted
TA2010-315613A12	1	Corrective Action Plan For Wide Flange Packing of Solider Plie No. 859	TG0300-584	BALFO900	TURNE361	1/24/12	2/09/12	2/14/12	2/14/12	5	Make Corrections Noted
TA2010-315613A14	1	Shoring Wall - Record Documents - As Built Drawings and Unusual Conditions Encountered CAD Files	TG0300-590	BALFO900	TURNE361	12/21/11	1/10/12	1/06/12	1/09/12	-4	Submitted
TA2010-315613A14	2	Shoring Wall - Record Documents - As Built Drawings and Unusual Conditions Encountered CAD Files	TG0300-590	BALFO900	TURNE361	3/02/12	3/20/12			0	Submitted
TZ2010-315613A12	1	Re-splicing of Welding Procedures for CDSM Solider Piles	TG0300-585	BALFO900	TURNE361	1/19/12	2/06/12	2/14/12	2/14/12	8	No Exceptions Taken
Spec Section 31 63	29										
TA1020-316329A01	1	Drilled Shafts - Previous Projects List	TG0300-600	BALFO900	TURNE361	4/28/11	5/16/11	5/25/11	5/25/11	9	No Exceptions Taken
TA1020-316329A02	1	Drilled Shafts - Statement of Awareness of Site Conditions	TG0300-600	BALFO900	TURNE361	4/28/11	5/16/11	5/25/11	5/25/11	9	No Exceptions Taken
TA1020-316329A03	1	Drilled Shafts - Installation Plan	TG0300-600	BALFO900	TURNE361	4/28/11	5/16/11	5/25/11	5/25/11	9	No Exceptions Taken
TA1020-316329A03	2	Drilled Shafts - Installation Plan	TG0300-600	BALFO900	TURNE361	6/08/11	6/24/11	6/23/11	6/23/11	-1	No Exceptions Taken
TA1020-316329A03	3	Drilled Shafts - Installation Plan	TG0300-600	BALFO900	TURNE361	7/27/11	8/12/11	7/28/11	7/29/11	-15	No Exceptions Taken
TA1020-316329A03	4	Drilled Shafts - Installation Plan	TG0300-600	BALFO900	TURNE361	8/25/11	9/13/11	9/08/11	9/12/11	-5	No Exceptions Taken
TA1020-316329A04	1	Drilled Shafts - Weld Procedures	TG0300-600	BALFO900	TURNE361	4/28/11	5/16/11	5/25/11	5/25/11	9	For Record Only
TA1020-316329A05	1	Drilled Shafts LEED Submittal	TG0300-600	BALFO900	TURNE361	4/28/11	5/16/11	5/25/11	5/25/11	9	No Action
TA1020-316329A06	1	Drilled Shafts Closeout - Records and As-Builts	TG0300-610	BALFO900	TURNE361	4/28/11	5/16/11	5/19/11	5/19/11	3	No Exceptions Taken
TA1020-316329A07	1	Drilled Shafts - Sonic Caliper Testing	TG0300-601	BALFO900	TURNE361	7/27/11	8/12/11	7/28/11	7/29/11	-15	No Exceptions Taken
TA1020-316329A07	2	Drilled Shafts - Sonic Caliper Testing	TG0300-601	BALFO900	TURNE361	8/10/11	8/26/11	8/23/11	8/23/11	-3	No Exceptions Taken
TA1020-316329A08	1	Drilled Shafts - Drilling Polymers (Alternate to Dry Flocculant)	TG0300-601	BALFO900	TURNE361	7/27/11	8/12/11	7/28/11	7/29/11	-15	No Exceptions Taken
TA1020-316329A08	2	Drilled Shafts - Drilling Polymers (Alternate to Dry Flocculant)	TG0300-601	BALFO900	TURNE361	8/10/11	8/26/11	8/23/11	8/23/11	-3	No Exceptions Taken
TA1020-316329A09	1	Drilled Shafts - CSL and BHDL Testing	TG0300-601	BALFO900	TURNE361	8/10/11	8/26/11	8/23/11	8/23/11	-3	No Exceptions Taken



Submittal #	Cycle	e Submittal Name	Submittal Package	From Company	Io Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status
Spec Section 31 63	33										
TA1020-316333A01	1	Micropile - Work Plan and Schedule	TG0300-620	BALFO900	TURNE361		7/30/12			0	Pending
TA1020-316333A02	1	Micropile - Contractor Qualifications	TG0300-620	BALFO900	TURNE361		7/30/12			0	Pending
TA1020-316333A03	1	Micropile - Product Data	TG0300-620	BALFO900	TURNE361		7/30/12			0	Pending
TA1020-316333A04	1	Micropile - Equipment Description	TG0300-620	BALFO900	TURNE361		7/30/12			0	Pending
TA1020-316333A05	1	Micropile - Installation Procedures	TG0300-620	BALFO900	TURNE361		7/30/12			0	Pending
TA1020-316333A06	1	Micropile - Working Drawings & Calcs	TG0300-620	BALFO900	TURNE361		7/30/12			0	Pending
TA1020-316333A07	1	Micropile - Performace and Proof Test Plans and Results	TG0300-630	BALFO900	TURNE361		9/10/12			0	Pending
TA1020-316333A08	1	Micropile - Grout Test Results	TG0300-640	BALFO900	TURNE361		7/30/12			0	Pending
Spec Section 31231	0										
UG1035-312310A01	1	Trinet Shoring Plan	TG0405-009	TRINE814	TURNE361	11/03/10	11/19/10	11/29/10	11/29/10	10	No Exceptions Taken
UG2010-312310B01	1	Pipe Bedding (Crushed Rock) - Sample	TG0434-002	MSQUA902	TURNE361	12/21/10	1/11/11	1/07/11	1/07/11	-4	No Exceptions Taken
UG2010-312310B02	1	Backfill Material - Sample	TG0434-002	MSQUA902	TURNE361	12/21/10	1/11/11	1/07/11	1/07/11	-4	No Exceptions Taken
UG2010-312310B03	1	Pipe Bedding (Crushed Rock) - Test Reports	TG0434-003	MSQUA902	TURNE361	12/20/10	1/21/11	1/05/11	1/05/11	-16	No Exceptions Taken
UG2010-312310B04	1	Backfill Material - Test Reports	TG0434-003	MSQUA902	TURNE361	12/20/10	1/21/11	1/05/11	1/05/11	-16	No Exceptions Taken
UG2010-312310B05	1	Methods of compaction	TG0434-004	MSQUA902	TURNE361	1/17/11	2/02/11	1/27/11	1/27/11	-6	Make Corrections Noted
UG2010-312310B06	1	Controlled Low Strength Fill Material	TG0434-006	MSQUA902	TURNE361	12/20/10	1/10/11	1/06/11	1/06/11	-4	No Exceptions Taken
UG2010-312310B07	1	Shoring Plan by Licensed CA Engineer	TG0434-005	MSQUA902	TURNE361	12/20/10	1/21/11	12/30/10	1/03/11	-22	No Exceptions Taken
UG2010-312310B08	1	Underground Plastic Warning Tape	TG0434-004	MSQUA902	TURNE361	1/17/11	2/02/11	1/27/11	1/27/11	-6	No Exceptions Taken
UG2010-312310B09	1	Ungerground Metalic Warning Tape	TG0434-004	MSQUA902	TURNE361	1/17/11	2/02/11	1/27/11	1/27/11	-6	No Exceptions Taken
UG2010-312310B10	1	Sand Cement Slurry Backfill	TG0434-006	MSQUA902	TURNE361	12/20/10	1/10/11	1/06/11	1/06/11	-4	No Exceptions Taken
UG2010-312310B11	1	Filter Fabric	TG0404-002	MSQUA902	TURNE361	12/20/10	1/21/11	1/05/11	1/05/11	-16	No Exceptions Taken
UG3010-312310A01	1	Gradation Analysis of Bedding Sand for Water Pipe	TG0405-032	TRINE814	TURNE361	11/22/10	12/08/10	12/08/10	12/08/10	0	No Exceptions Taken
Spec Section 31721	6										
UG3020-317216A01	1	Jacked Steel Casing	TG0404-012	MSQUA902	TURNE361	6/23/11	7/12/11	7/12/11	7/12/11	0	Make Corrections Noted
UG3020-317216A01	2	Jacked Steel Casing	TG0404-012	MSQUA902	TURNE361	6/28/11	6/28/11	6/28/11	6/28/11	0	Make Corrections Noted
UG3020-317216A01	3	Jacked Steel Casing	TG0404-012	MSQUA902	TURNE361	6/28/11	7/06/11	7/07/11	7/07/11	1	Make Corrections Noted
Spec Section 32 00	00										
UG3010-032000C01	1	Cast In place Vault- Shop Drawings	TG0402-016	MSQUA902	TURNE361		2/21/12			0	Pending
Spec Section 32 12	17										



Sudmittal #	Cycle	e Submittal Name	Package	From Company	To Company	Date Sent	Date Due	Date Returned	to Sub	Days Late	Status
Spec Section 32 12	17 (co	ontinued)									
TA2010-321217A01	1	Backfill Materials	TG0300-650	BALFO900	TURNE361	4/05/11	4/21/11	4/28/11	4/28/11	7	Make Corrections Noted
TA2010-321217A01	2	Backfill Materials	TG0300-650	BALFO900	TURNE361	5/09/11	5/25/11	6/02/11	6/02/11	8	Make Corrections Noted
TA2010-321217A02	1	Demolition and Removal Plan (Including any Temporary Shoring)	TG0300-650	BALFO900	TURNE361	4/05/11	4/21/11	4/28/11	4/28/11	7	Make Corrections Noted
TA2010-321217A02	2	Demolition and Removal Plan (Including any Temporary Shoring)	TG0300-650	BALFO900	TURNE361	5/09/11	5/25/11	6/02/11	6/02/11	8	Make Corrections Noted
TA2010-321217A03	1	Temporary Shoring and Bracing Calculations	TG0300-650	BALFO900	TURNE361	4/05/11	4/21/11	4/28/11	4/28/11	7	Make Corrections Noted
TA2010-321217A03	2	Temporary Shoring and Bracing Calculations	TG0300-650	BALFO900	TURNE361	5/09/11	5/25/11	6/02/11	6/02/11	8	Make Corrections Noted
TA2010-321217A05	1	Backfill Materials - Zone 1, 2, 3	TG0300-651	BALFO900	TURNE361	4/05/11	4/21/11	4/28/11	4/28/11	7	Make Corrections Noted
TA2010-321217A05	2	Backfill Materials - Zone 1, 2, 3	TG0300-651	BALFO900	TURNE361	5/17/11	6/03/11	6/09/11	6/09/11	6	Make Corrections Noted
TA2010-321217A06	1	Demolition and Removal Plan (Including any Temporary Shoring) - Zone 1, 2, 3	TG0300-651	BALFO900	TURNE361	4/05/11	4/21/11	4/28/11	4/28/11	7	Not Used
TA2010-321217A06	2	Demolition and Removal Plan (Including any Temporary Shoring) - Zone 1, 2, 3	TG0300-651	BALFO900	TURNE361	5/17/11	6/03/11	6/09/11	6/09/11	6	Not Used
TA2010-321217A06	3	Demolition and Removal Plan (Including any Temporary Shoring) - Zone 1, 2, 3	TG0300-651	BALFO900	TURNE361	6/30/11	7/19/11	7/22/11	7/26/11	3	Not Used
TA2010-321217A07	1	Temporary Shoring and Bracing Calculations - Zone 1, 2, 3	TG0300-651	BALFO900	TURNE361	4/05/11	4/21/11	4/28/11	4/28/11	7	Make Corrections Noted
TA2010-321217A07	2	Temporary Shoring and Bracing Calculations - Zone 1, 2, 3	TG0300-651	BALFO900	TURNE361	5/17/11	6/03/11	6/09/11	6/09/11	6	Make Corrections Noted
TA2010-321217A08	1	Temporary Shoring and Bracing Calculations - Zone 1, 2, 3 [For Record Only - Alternate Shoring Plan for Zone 3 Natoma St.]	TG0300-652	BALFO900	TURNE361	7/18/11	8/03/11	8/16/11	8/16/11	13	Make Corrections Noted
TA2010-321217A09	1	Temporary Shoring and Bracing Calculations - Zone 1, 2, 3 [For Record Only - Slide Rail Locations]	TG0300-652	BALFO900	TURNE361	7/18/11	8/03/11	8/16/11	8/16/11	13	No Exceptions Taken
Spec Section 32 17	24										
UG3020-321724A01	1	Pavement Markings	TG0405-016	TRINE814	TURNE361	1/31/11	2/16/11	2/09/11	2/09/11	-7	No Exceptions Taken
Spec Section 32121	17										
UG2010-321217A01	1	Trinet - Mix Design for Street Base Concrete	TG0405-010	TRINE814	TURNE361	11/04/10	11/22/10	11/18/10	11/18/10	-4	No Exceptions Taken
UG2010-321217A01	2	Trinet - Mix Design for Street Base Concrete	TG0405-010	TRINE814	TURNE361	5/02/11	5/18/11	5/17/11	5/17/11	-1	No Exceptions Taken
UG2010-321217A02	1	Trinet - Mix Design for Concrete Sidewalk	TG0405-010	TRINE814	TURNE361	11/04/10	11/22/10	11/18/10	11/18/10	-4	No Exceptions Taken
UG2010-321217A03	1	Mix Design for Concrete Curb & Gutter and Pavement	TG0405-010	TRINE814	TURNE361	11/04/10	11/22/10	11/18/10	11/18/10	-4	No Exceptions Taken
UG2010-321217A04	1	Trinet - Mix Design for Concrete Curb Ramps	TG0405-010	TRINE814	TURNE361	11/04/10	11/22/10	11/18/10	11/18/10	-4	No Exceptions Taken
UG2010-321217A05	1	Trinet - Mix Design for Asphalt Concrete Wearing Surface	TG0405-010	TRINE814	TURNE361	11/04/10	11/22/10	11/18/10	11/18/10	-4	Make Corrections Noted

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Submittal #	Cycle	Submittal Name	Submittal Package	From Company	To Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status
Spec Section 32121	7 (cor	ntinued)									
UG2010-321217A05	2	Trinet - Mix Design for Asphalt Concrete Wearing Surface	TG0405-010	TRINE814	TURNE361	6/16/11	7/05/11	7/05/11	7/05/11	0	Make Corrections Noted
UG2010-321217A05	3	Trinet - Mix Design for Asphalt Concrete Wearing Surface	TG0405-010	TRINE814	TURNE361	6/28/11	7/15/11	8/31/11	8/31/11	47	Make Corrections Noted
UG2010-321217A06	1	Trinet - Material Data Sheet for Ashpalt Emulsion Paint Binder	TG0405-010	TRINE814	TURNE361	11/04/10	11/22/10	11/18/10	11/18/10	-4	No Exceptions Taken
UG2010-321217B01	1	Asphalt Mix Design	TG0434-010	MSQUA902	TURNE361	12/20/10	1/21/11	1/05/11	1/05/11	-16	No Exceptions Taken
Spec Section 33 11	00										
UG3010-331100A01	1	Valves, fitting drawings	TG0405-017	TRINE814	TURNE361	11/16/10	12/02/10	12/03/10	12/06/10	1	No Exceptions Taken
UG3010-331100A01	2	Valves, fitting drawings	TG0405-017	TRINE814	TURNE361	2/24/11	3/14/11	3/09/11	3/09/11	-5	No Exceptions Taken
UG3010-331100A02	1	Joint drawings	TG0405-017	TRINE814	TURNE361	11/16/10	12/02/10	12/03/10	12/06/10	1	No Exceptions Taken
UG3010-331100A03	1	Installation instructions	TG0405-017	TRINE814	TURNE361	11/16/10	12/02/10	12/03/10	12/06/10	1	No Exceptions Taken
UG3010-331100A04	1	Pipe products	TG0405-017	TRINE814	TURNE361	11/16/10	12/02/10	12/03/10	12/06/10	1	No Exceptions Taken
UG3010-331100A05	1	Polyethylene product data	TG0405-017	TRINE814	TURNE361	11/16/10	12/02/10	12/03/10	12/06/10	1	No Exceptions Taken
UG3010-331100A06	1	Installation instructions	TG0405-017	TRINE814	TURNE361	11/16/10	12/02/10	12/03/10	12/06/10	1	No Exceptions Taken
Spec Section 33 31	10										
UG3020-333110A15	1	Post Construction TV Inspection	TG0405-023	TRINE814	TURNE361	8/30/11	9/16/11	9/07/11	9/07/11	-9	No Exceptions Taken
UG3020-333110A15	2	Post Construction TV Inspection	TG0405-023	TRINE814	TURNE361	11/28/11	12/14/11	12/19/11	12/22/11	5	No Exceptions Taken
UG3020-333110A15	3	Post Construction TV Inspection	TG0405-023	TRINE814	TURNE361	2/03/12	2/21/12	2/23/12	2/23/12	2	No Exceptions Taken
UG3020-333110A22	1	Alt Drain Rock Analysis for VCP Pipe Bedding	TG0405-045	TRINE814	TURNE361	1/27/11	2/14/11	2/01/11	2/01/11	-13	No Exceptions Taken
UG3020-333110A22	2	Alt Drain Rock Analysis for VCP Pipe Bedding	TG0405-045	TRINE814	TURNE361	4/05/11	4/21/11	4/22/11	4/25/11	1	No Exceptions Taken
UG3020-333110A22	3	Alt Drain Rock Analysis for VCP Pipe Bedding	TG0405-045	TRINE814	TURNE361	5/07/11	5/24/11	2/01/11	6/03/11	-112	No Exceptions Taken
UG3020-333110B08	1	M Squared - TV Inspection Sewer Natoma W - Existing Video	TG0404-006	MSQUA902	TURNE361		5/25/11			0	Open
UG3020-333110B09	1	M Squared - TV Inspection Sewer Natoma W - Existing Log	TG0404-006	MSQUA902	TURNE361		5/25/11			0	Open
UG3020-333110B10	1	M Squared - TV Inspection Sewer Natoma W - Post Construction Video	TG0404-006	MSQUA902	TURNE361		5/25/11			0	Open
UG3020-333110B11	1	M Squared - TV Inspection Sewer Natoma W - Post Construction Log & Sketch	TG0404-006	MSQUA902	TURNE361		5/25/11			0	Open
UG3020-333110B12	1	M Squared - TV Inspection Sewer Natoma E - Existing Video	TG0404-007	MSQUA902	TURNE361		6/23/11			0	Open
UG3020-333110B13	1	M Squared - TV Inspection Sewer Natoma E - Existing Log	TG0404-007	MSQUA902	TURNE361		6/23/11			0	Open
UG3020-333110B14	1	M Squared - TV Inspection Sewer Natoma E - Post Construction Video	TG0404-007	MSQUA902	TURNE361		6/23/11			0	Open
UG3020-333110B15	1	M Squared - TV Inspection Sewer Natoma E - Post Construction Log & Sketch	TG0404-007	MSQUA902	TURNE361		6/23/11			0	Open



Submittal #	Cycle	e Submittal Name	Submittal Package	From Company	Io Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status
Spec Section 33 31	10 (co	ontinued)									
UG3030-333110A01	1	TV Inspection Report	TG0405-023	TRINE814	TURNE361	3/25/11	4/12/11	5/03/11	5/05/11	21	No Exceptions Taken
UG3030-333110A01	2	TV Inspection Report	TG0405-023	TRINE814	TURNE361	11/28/11	12/14/11	12/19/11	12/22/11	5	No Exceptions Taken
UG3030-333110A01	3	TV Inspection Report	TG0405-023	TRINE814	TURNE361	2/03/12	2/21/12	2/23/12	2/23/12	2	No Exceptions Taken
Spec Section 33 34	00										
UG3020-333400B02	1	Joint Layout Plan	TG0406-010	MSQUA902	TURNE361	6/10/11	6/28/11	6/28/11	6/28/11	0	Make Corrections Noted
UG3020-333400B02	2	Joint Layout Plan	TG0406-010	MSQUA902	TURNE361	4/13/11	7/01/11	7/01/11	7/01/11	0	Make Corrections Noted
UG3020-333400B02	3	Joint Layout Plan	TG0406-010	MSQUA902	TURNE361	4/13/11	7/21/11	7/21/11	7/21/11	0	Make Corrections Noted
UG3020-333400D01	1	Steel Pipe Material	TG0406-008	MSQUA902	TURNE361	3/30/11	4/15/11	4/22/11	4/22/11	7	Make Corrections Noted
UG3020-333400D01	2	Steel Pipe Material	TG0406-008	MSQUA902	TURNE361	4/28/11	5/16/11	5/13/11	5/13/11	-3	Make Corrections Noted
UG3020-333400D03	1	Pipe Factory Test Results	TG0406-009		TURNE361	5/24/11	6/10/11			0	Pending
Spec Section 33 51	00										
UA3020-335100A01	1	Gas Pipe & Fittings	TG0405-037	TRINE814	TURNE361	1/03/11	1/19/11	1/17/11	1/17/11	-2	Make Corrections Noted
UA3020-335100A02	1	Tracer Wire for Gas Piping in JT	TG0405-037	TRINE814	TURNE361	1/03/11	1/19/11	1/17/11	1/17/11	-2	No Exceptions Taken
Spec Section 33 71	00										
UA3020-337100A08	1	Electrical (PG&E) Conduit, Fittings & Acessories for Joint Trench	TG0405-036	TRINE814	TURNE361	1/03/11	1/19/11	1/18/11	1/18/11	-1	No Exceptions Taken
UA3020-337100A08	2	Electrical (PG&E) Conduit, Fittings & Acessories for Joint Trench	TG0405-036	TRINE814	TURNE361	1/24/11	2/09/11	1/27/11	1/27/11	-13	No Exceptions Taken
UA3020-337100A09	1	Telecommunications (AT&T) Conduit, Fittings & Acessories for Joint Trench	TG0405-036	TRINE814	TURNE361	1/03/11	1/19/11	1/18/11	1/18/11	-1	No Exceptions Taken
UA3020-337100A10	1	EMS Location Devices for JT Utilities	TG0405-036	TRINE814	TURNE361	1/03/11	1/19/11	1/18/11	1/18/11	-1	No Exceptions Taken
UA3020-337100A11	1	Mix Design for Concrete Encasement of PG&E Ducts	TG0405-036	TRINE814	TURNE361	1/03/11	1/19/11	1/18/11	1/18/11	-1	No Exceptions Taken
UA3020-337100A12	1	Underground Conduit Identification for JT Utilities	TG0405-042	TRINE814	TURNE361	1/18/11	2/03/11	1/26/11	1/26/11	-8	No Exceptions Taken
UG3060-337100A01	1	PG&E Qualification Certificates for Plastic Gas Pipe Connections	TG0405-046	TRINE814	TURNE361	2/11/11	3/02/11	2/22/11	2/22/11	-8	For Record Only
UG4010-337100A06	1	Precast vault shop dwgs	TG0405-018	TRINE814	TURNE361	1/06/11	1/24/11	1/21/11	1/21/11	-3	Make Corrections Noted
UG4010-337100A06	2	Precast vault shop dwgs	TG0405-018	TRINE814	TURNE361	2/07/11	2/24/11	2/09/11	2/09/11	-15	Make Corrections Noted
UG4010-337100A08	1	Joint Trench Shop Dwgs - Shaw Alley to AT&T Vault	TG0405-048	TRINE814	TURNE361	3/16/11	4/01/11	3/25/11	3/25/11	-7	Make Corrections Noted
UG4010-337100A09	1	Joint Trench Shop Dwgs - 2nd to PG&E Vault	TG0405-051	TRINE814	TURNE361	3/28/11	4/13/11	4/08/11	4/08/11	-5	Make Corrections Noted



Submittal #	Cycle	e Submittal Name	Submittal Package	From Company	To Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status
Spec Section 33 71	00 (co	ontinued)									
UG4010-337100A10	1	Joint Trench Shop Dwgs - Steam Vault to PG&E Vault	TG0405-052	TRINE814	TURNE361	2/13/12	4/12/11	2/13/12	2/13/12	307	Void
UG4010-337100A11	1	Joint Trench Shop Drawings Sta. 3+36 to PGE Vault 1319	TG0405-054	TRINE814	TURNE361	4/18/11	5/04/11	4/27/11	4/27/11	-7	Make Corrections Noted
UG9090-337100A01	1	Mix Design for JT Cap	TG0405-053	TRINE814	TURNE361	3/24/11	4/11/11	4/05/11	4/05/11	-6	No Exceptions Taken
Spec Section 33110	0										
UG3010-331100B01	1	Catalog Cuts of Pipe & Fittings	TG0434-007	MSQUA902	TURNE361	12/20/10	1/21/11	1/06/11	1/06/11	-15	No Exceptions Taken
UG3010-331100B01	2	Catalog Cuts of Pipe & Fittings	TG0434-007	MSQUA902	TURNE361	1/25/11	2/10/11	1/28/11	1/28/11	-13	No Exceptions Taken
UG3010-331100B02	1	Affadavit of compliance for all material	TG0434-007	MSQUA902	TURNE361	12/20/10	1/21/11	1/06/11	1/06/11	-15	No Exceptions Taken
UG3010-331100B03	1	Polyethelene Encasement	TG0434-007	MSQUA902	TURNE361	12/20/10	1/21/11	1/06/11	1/06/11	-15	No Exceptions Taken
UG3010-331100B04	1	Installation Proceedures	TG0434-007	MSQUA902	TURNE361	12/20/10	1/21/11	1/06/11	1/06/11	-15	No Exceptions Taken
Spec Section 33311	0										
UG3020-333110A01	1	18" & 24" Main Line VCP	TG0405-001	TRINE814	TURNE361	10/27/10	11/12/10	11/23/10	11/23/10	11	No Exceptions Taken
UG3020-333110A02	1	18" & 24" Main Line VCP Repair Coupling	TG0405-001	TRINE814	TURNE361	10/27/10	11/12/10	11/23/10	11/23/10	11	No Exceptions Taken
UG3020-333110A03	1	VCP Pipe & Fittings for Side Sewers & Culverts	TG0405-001	TRINE814	TURNE361	10/27/10	11/12/10	11/23/10	11/23/10	11	No Exceptions Taken
UG3020-333110A04	1	Couplings for (N) Side Sewer Connections to (E) Pipe	TG0405-001	TRINE814	TURNE361	10/27/10	11/12/10	11/23/10	11/23/10	11	No Exceptions Taken
UG3020-333110A05	1	Tap-Tite Fittings - Side Sewer Connections to Main	TG0405-001	TRINE814	TURNE361	10/27/10	11/12/10	11/23/10	11/23/10	11	No Exceptions Taken
UG3020-333110A06	1	Side Sewer Connection Detail	TG0405-001	TRINE814	TURNE361	10/27/10	11/12/10	11/23/10	11/23/10	11	Make Corrections Noted
UG3020-333110A07	1	Grading Analysis for VCP Pipe Bedding	TG0405-001	TRINE814	TURNE361	10/27/10	11/12/10	11/23/10	11/23/10	11	No Exceptions Taken
UG3020-333110A08	1	Geotextile Fabric for VCP Pipe Bedding	TG0405-001	TRINE814	TURNE361	10/27/10	11/12/10	11/23/10	11/23/10	11	Approved As Noted
UG3020-333110A08	2	Geotextile Fabric for VCP Pipe Bedding	TG0405-001	TRINE814	TURNE361	11/30/10	12/16/10	12/03/10	12/06/10	-13	Approved As Noted
UG3020-333110A09	1	Precast Manhole Materials	TG0405-001	TRINE814	TURNE361	10/27/10	11/12/10	11/23/10	11/23/10	11	Make Corrections Noted
UG3020-333110A09	2	Precast Manhole Materials	TG0405-001	TRINE814	TURNE361	11/30/10	12/16/10	12/06/10	12/06/10	-10	Make Corrections Noted
UG3020-333110A09	3	Precast Manhole Materials	TG0405-001	TRINE814	TURNE361	12/06/10	12/22/10	12/10/10	12/10/10	-12	Make Corrections Noted
UG3020-333110A10	1	Manhole Frame & Cover	TG0405-001	TRINE814	TURNE361	10/27/10	11/12/10	11/23/10	11/23/10	11	No Exceptions Taken
UG3020-333110A11	1	Precast Catch Basin	TG0405-001	TRINE814	TURNE361	10/27/10	11/12/10	11/23/10	11/23/10	11	No Exceptions Taken
UG3020-333110A12	1	Catch Basin Frame & Cover	TG0405-001	TRINE814	TURNE361	10/27/10	11/12/10	11/23/10	11/23/10	11	Make Corrections Noted
UG3020-333110A13	1	Cast Iron Trap for Catch Basin	TG0405-001	TRINE814	TURNE361	10/27/10	11/12/10	11/23/10	11/23/10	11	No Exceptions Taken
UG3020-333110A14	1	Plug for Catch Basin Trap	TG0405-001	TRINE814	TURNE361	10/27/10	11/12/10	11/23/10	11/23/10	11	No Exceptions Taken
UG3020-333110A16	1	Water Stop for CIP Manholes Structures on First St	TG0405-014	TRINE814	TURNE361	11/11/10	11/29/10	11/29/10	11/29/10	0	No Exceptions Taken

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Submittal #	Cycle	e Submittal Name	Submittal Package	From Company	To Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status
Spec Section 33311	0 (cor	ntinued)									
UG3020-333110A17	1	Form Ties for CIP Manholes Structures on First St	TG0405-014	TRINE814	TURNE361	11/11/10	11/29/10	11/29/10	11/29/10	0	No Exceptions Taken
UG3020-333110A18	1	Form Release Agent for CIP Manholes Structures on First St	TG0405-014	TRINE814	TURNE361	11/11/10	11/29/10	11/29/10	11/29/10	0	No Exceptions Taken
UG3020-333110A19	1	Concrete Curing Compound for CIP Manholes Structures on First St	TG0405-014	TRINE814	TURNE361	11/11/10	11/29/10	11/29/10	11/29/10	0	No Exceptions Taken
UG3020-333110A19	2	Concrete Curing Compound for CIP Manholes Structures on First St	TG0405-014	TRINE814	TURNE361	12/01/10	12/17/10	12/10/10	12/10/10	-7	No Exceptions Taken
UG3020-333110A20	1	Elastomeric Bearing Pad for CIP Manhole Pipe Joints on First St.	TG0405-014	TRINE814	TURNE361	11/11/10	11/29/10	11/29/10	11/29/10	0	No Exceptions Taken
UG3020-333110A20	2	Elastomeric Bearing Pad for CIP Manhole Pipe Joints on First St.	TG0405-014	TRINE814	TURNE361	12/01/10	12/17/10	12/10/10	12/10/10	-7	No Exceptions Taken
UG3020-333110A21	1	Joint Sealant for CIP Manhole Pipe Joints on First St.	TG0405-014	TRINE814	TURNE361	11/11/10	11/29/10	11/29/10	11/29/10	0	No Exceptions Taken
UG3020-333110A21	2	Joint Sealant for CIP Manhole Pipe Joints on First St.	TG0405-014	TRINE814	TURNE361	12/01/10	12/17/10	12/10/10	12/10/10	-7	No Exceptions Taken
UG3020-333110A23	1	Grading Analysis for Alt VCP Pipe Bedding	TG0405-045	TRINE814	TURNE361	5/10/11	5/26/11	5/26/11	6/03/11	0	Rejected
UG3020-333110B01	1	Vitrified Clay Pipe	TG0404-001	MSQUA902	TURNE361	12/20/10	1/10/11	12/30/10	1/03/11	-11	No Exceptions Taken
UG3020-333110B02	1	Cast Iron Trap & Cap for Catch Basins	TG0404-001	MSQUA902	TURNE361	12/20/10	1/10/11	12/30/10	1/03/11	-11	No Exceptions Taken
UG3020-333110B03	1	Side Sewer Connection Detail	TG0404-001	MSQUA902	TURNE361	12/20/10	1/10/11	12/30/10	1/03/11	-11	No Exceptions Taken
UG3020-333110B04	1	Sewer Material Test Reports	TG0404-001	MSQUA902	TURNE361	12/20/10	1/10/11	12/30/10	1/03/11	-11	No Exceptions Taken
UG3020-333110B05	1	Sewer Material Shop drawings & literature	TG0404-001	MSQUA902	TURNE361	12/20/10	1/10/11	12/30/10	1/03/11	-11	No Exceptions Taken
UG3020-333110B06	1	Sewer Material Manufaturer's Warranty's	TG0404-001	MSQUA902	TURNE361	12/20/10	1/10/11	12/30/10	1/03/11	-11	No Exceptions Taken
UG3020-333110B07	1	Wet Spray Mortar	TG0404-001	MSQUA902	TURNE361	12/20/10	1/10/11	12/30/10	1/03/11	-11	No Exceptions Taken
Spec Section 33710	0										
UG4020-337100A01	1	Rigid Steel Conduit & Fittings	TG0405-005	TRINE814	TURNE361	10/29/10	11/16/10	11/23/10	11/23/10	7	No Exceptions Taken
UG4020-337100A02	1	Grounding Bushing for Rigid Conduit	TG0405-005	TRINE814	TURNE361	10/29/10	11/16/10	11/23/10	11/23/10	7	No Exceptions Taken
UG4020-337100A03	1	Street Lighting Pull Box for Vehicular Trafficed Areas (H20)	TG0405-005	TRINE814	TURNE361	10/29/10	11/16/10	11/23/10	11/23/10	7	No Exceptions Taken
UG4020-337100A04	1	Street Lighting Pull Box for Sidewalk (Non Traffic)	TG0405-005	TRINE814	TURNE361	10/29/10	11/16/10	11/23/10	11/23/10	7	No Exceptions Taken
UG4020-337100A05	1	Copper Wire Conductors	TG0405-005	TRINE814	TURNE361	10/29/10	11/16/10	11/23/10	11/23/10	7	Make Corrections Noted
UG4020-337100A06	1	In-Line Fuseholders	TG0405-005	TRINE814	TURNE361	10/29/10	11/16/10	11/23/10	11/23/10	7	No Exceptions Taken
UG4020-337100A07	1	Time-Delay Fuses	TG0405-005	TRINE814	TURNE361	10/29/10	11/16/10	11/23/10	11/23/10	7	No Exceptions Taken
Spec Section 33711	7										
UG4030-337117	1	Temporary Poles	TG0406-013	MSQUA902	TURNE361	4/18/11	5/04/11	5/17/11	5/17/11	13	No Exceptions Taken
UG4030-337117	2	Temporary Poles	TG0406-013	MSQUA902	TURNE361	5/19/11	6/07/11	5/23/11	5/23/11	-15	No Exceptions Taken
UG4030-337117B01	1	Temporary Pole Layout	TG0406-014	MSQUA902	TURNE361	5/06/11	5/24/11	5/13/11	5/13/11	-11	Make Corrections Noted

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Submittal #	Cycle	Submittal Name	Submittal Package	From Company	To Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status
Spec Section 33790	00										
UG4020-337900A01	1	Copper Bonded Ground Rods	TG0405-006	TRINE814	TURNE361	10/29/10	11/16/10	11/18/10	11/18/10	2	No Exceptions Taken
UG4020-337900A02	1	Ground Wire Clamp	TG0405-006	TRINE814	TURNE361	10/29/10	11/16/10	11/18/10	11/18/10	2	No Exceptions Taken
UG4020-337900A03	1	Grounding Conductor	TG0405-006	TRINE814	TURNE361	10/29/10	11/16/10	11/18/10	11/18/10	2	No Exceptions Taken
Spec Section 610											
UA0000-000610B02	1	P&P Bonds	TG0401-001	MSQUA902	TURNE361	2/01/11	2/01/11	2/03/11	2/04/11	2	For Record Only
Spec Section 805											
UA0000-000805B02	1	Certificate of Insurance	TG0401-001	MSQUA902	TURNE361	2/01/11	2/01/11	2/03/11	2/04/11	2	For Record Only
Spec Section 820											
UA0000-000820B01	1	City Build Workforce Projection	TG0434-014	MSQUA902	TURNE361	12/20/10	1/21/11	1/05/11	1/05/11	-16	Make Corrections Noted
UA0000-000820B01	2	City Build Workforce Projection	TG0434-014	MSQUA902	TURNE361	1/24/11	2/09/11	1/24/11	1/24/11	-16	Make Corrections Noted
UA0000-000820B01	3	City Build Workforce Projection	TG0434-014	MSQUA902	TURNE361	2/07/11	2/24/11	2/11/11	2/11/11	-13	Make Corrections Noted
UA0000-000820C01	1	City Build Workforce Projection	TG0401-004	MSQUA902	TURNE361	2/25/11	3/15/11	3/03/11	3/03/11	-12	No Exceptions Taken



### **Document Control**

January 13, 2011

#### Purpose

The purpose of this outline is to provide guidelines for establishing the appropriate document control system for the management of the Transbay Transit Center project.

#### Policy

All Controlled documents will go through Document Control to be logged and tracked.

#### **Procedures**

What is a controlled document? A controlled document shall be defined for this project as any contract document or correspondence which includes i) contract requirements, or ii) scope definition or requirements, including distribution of all Contract Documents (e.g. addendum, bulletins, work orders, etc.) either to/from TJPA or Trade Subcontractor. Controlled documents received should be date stamped, logged, saved electronically (in some cases hard copies filed), distributed internally, monitoring response/process time (also referred to as work flow), distribute externally, and track the distribution list.

The following is a list of **controlled document** examples:

• Project Document Distribution – Internal/External

- o Design Documents
- o Construction Document
- o Sketches
- o Reference Documents
- Submittals, including all LEED submittal requirements and substitutions.
- Design Review Questions (DRQs) Preconstruction
- Request for Information (RFIs) Construction
- Daily Reports
- Safety Memos Logged and tracked
- Schedules and schedule reports
- Permit Inspections
- Payment Applications
- Cash Flow Projections
- Monthly Progress Reports
- Permits

• Original Documents - Custodianship of all original documents in a Master File until they can be boxed and transferred for long term storage.

- Formal Correspondence; including all formal incoming/outgoing correspondence
- Contract Notification Correspondence; delay notification, etc.



### **Document Control**

#### January 13, 2011

- Contract Modifications
- Virtual Building/Models
- Meeting Minutes
- Transmittals
- Requests for Qualification (RFQ)
- Invitation for Bid (IFB)
- Subcontracts & Change Orders
- Long Form/Short Form Purchase Orders (PO)
- SBE/DBE
- Closeout documents
- Reimbursements

Uncontrolled Documents: The following are some examples of uncontrolled documents:

- Email correspondence
- Field Tags Collected and tracked by Cost Control
- Purchase Order Managed by Procurement/Cost Control



### **File Naming Conventions**

November 4, 2010

### **Naming Convention**

Below is the designator and associated description to be used on correspondence for the Transbay Project.-Project examples are:

- 1. RFI
- a. Utilities
  - i. RFI U -XXXX Description
- b. Transit Center Building
  - i. RFI T-XXXX Description
- c. Bus Ramps
  - i. RFI B-XXXX Description

Ex. RFI U-0083 – Joint Trench Conflict on Minna at St. 5+5

- 2. Submittal
  - a. Utilities
    - i. Uuniformat-masterformat-subcontract##
      - 1. Ex. UA0000-000000A01 Description
  - b. Transit Center Building
    - i. Tuniformat-masterformat-subcontract##
      - 1. TA0000-000000A01 Description
  - c. Bus Ramps
    - i. **B**uniformat-masterformat-subcontract##
      - 1. BA0000-000000A01 Description

Ex. UG3020-333100A01 – Sewer Piping Material

- 3. Email
  - a. Subject: Subject Description, same description to be used in transmittal, CMiC, etc
    - If communication pertains to a Trade Group Subject should include TG##.# and Name
  - Ex. Change Request T-003 Shoring Wall Changes [30100.03]
  - Ex. Transbay Transit Center TG05.4 Reimbursable Expense Approval [30100.01]
- 4. Dated Materials meetings, correspondence, reports, project documents, etc...
  - a. YYYY-MM-DD-Description
  - Ex. 2011-05-28 TG03 Reimbursable Expense Approval



## **File Naming Conventions**

November 4, 2010

#### Contracts (CMiC) -

- b. Number = Contract #
- c. Title = Subcontractor Name EXECUTED Contract # Date
- Ex. 301000405
- Ex. Trinet Construction Inc. EXECUTED 301000405 2010-10-22

#### 5. Change Orders (CMiC) -

- a. Number = Contract # ###
- b. Title = Subcontractor Name EXECUTED SCO# Date
- Ex. 301000405-001
- Ex. Trinet Construction EXECUTED SCO#001 2010-10-05



January 7, 2011

#### **Purpose**

To define which documents need to be saved, where they need to be saved and who is responsible for ensuring they are properly saved.

#### **Policy**

All documents relative to the project should be saved electronically. In some cases, hard copies of these documents will also be saved.

### Procedure

Do not save project related files on your individual computer.

- There is no back-up for these files. Computers can be stolen or crash in which case all information on that computer is lost.
- If someone else needs to access the most updated document, they cannot do so.
- If you have to work off-line, make a copy of your file from the server, do your update and then copy it back to the server once you have access.

#### Hardcopies -

A central document control location is established in the office. This location will be the storage for all documents that require hard copy. The following Hard Copy documents shall be filed:

- Prime Contract
- Prime Contract Change Orders (Contract Change Orders (CCO))
- Contract Amendments
- Executed Subcontracts
- Executed Subcontract Change Orders
- Permits

#### Electronic Copies

ALL Documents involved with the project will be stored electronically.

### **File Folder Structure**

All electronic documents must be filed electronically



January 7, 2011

There are eight (8) folders in the first level of documents on the Transbay. No changes to this level of folders are allowed unless specifically discussed with a Project Director. No individual files should be stored at this level.

At the level Transbay\TJPA – OWNER\*folder name* there are currently 26 folders. Some have folder stored in these folders.

No changes can be made to the folder structure at this level unless discussed with a Senior Project Manager. No individual files should be stored at this level. Where applicable, folder names at this level will include, in parenthesis, the party responsible for maintenance of the file structure.

All folders will have names that accurately describe the comments. No folder will be named "miscellaneous documents" or any similar non-descriptive name.

### **Standard File Naming Conventions**

**ALL** electronic document files and folders stored shall have titles consistent with the naming conventions defined in the File Naming Convention policy and procedure.

### **Responsible Party**

The responsible party for each document is indicated in the matrix below. If the document is a paper copy, the responsible party shall hand the task of physically filing the document to the document control team. If a document is to be filed electronically, the responsible party shall see that it is filed correctly.



### January 7, 2011

#### **Document Matrix**

DOCUMENT	HARD	SOFT	Responsible	Where Stored
TYPE	COPY?	COPY?	Party	
OWNER				
Prime Contract	Yes	Yes	Senior PA	Hard copy: Central File Location
				Soft copy: Contract
Prime Contract	Yes	Yes	Senior PA	Hard copy: Central File Location
Change Orders				Soft copy: Contract Amendments
Prime Contract	No	Yes	Senior PA	Hard copy: NA
Notices to				Soft copy: Contract NTPs
Proceed				
Owner Billing	No	Yes	Project	Hard Copy: NA
			Accountant	Soft Copy: Progress Billings
SUBCONTRACT				
Subcontract	Yes*	Yes	PA	Hard Copy: Central File Location
				Soft Copy: Contract & SCCO's
Subcontract	Yes*	Yes	PA	Hard Copy: Central File Location – Subcontractor file
Change Order				Soft Copy : Contract & SCCO's
Subcontractor	Yes*	Yes	Project	Hard Copy: Central File Location – Subcontractor File
Insurance Cert			Accountant	Soft Copy: Insurance Certificates
Subcontractor	No	Yes	Project	Hard Copy: NA
Progress Billing			Accountant	Soft Copy: Progress Billings
Subcontractor	No**	Yes	APM	Hard Copy: NA
Pricing				Soft Copy: CMiC attached to issue code
Subcontractor	No**	Yes	APM	Hard Copy: NA
direction to				Soft Copy: CMiC attached to issue code
proceed				
Subcontractor	No**	Yes	APM	Hard Copy: NA
Field Work Tag				Soft Copy: CMiC attached to issue code
Subcontractor	No	Yes	PA	Hard Copy: Central File Location – Subcontractor File
Formal Corres.				Soft Copy: trade number & name\Subcontractor\ 3.
(to)				Correspondence
Subcontractor	No	Yes	PA	Hard Copy: Central File Location – Subcontractor File
Formal Corres.				Soft Copy: Correspondence
(from)				
Long Form P.O.	See SC	See SC	See SC	Long Form P.O.'s will be filed in the same manner as
Subcontract	Vac	Vac	Drojact	Subcontrol Control File Location Subcontractor File
	res	res	Project	naru copy: Central File Location – Subcontractor File
Pre-lien into.			Accountant	Soft Copy: Preliminary Notices

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### January 7, 2011

DOCUMENT TYPE	HARD COPY?	SOFT COPY?	Responsible Party	Where Stored
CONSTRUCTION				
RFI	No	Yes	Project Engineer	Hard Copy: Binder located at the foreman's plan table Soft Copy: CMiC
Submittals – Product Data	No	Yes	Project Engineer	Hard Copy: NA Soft Copy: APPROVAL SHEET MUST BE SCANNED IN COLOR. CMIC
Submittals – shop drawings	No	Yes	Project Engineer	Hard Copy: Central File Location Soft Copy: APPROVAL SHEET MUST BE SCANNED IN COLOR. Copy of approval to CMiC
Submittals – samples	Yes	Yes ++	Project Engineer	Hard Copy: Central Sample Location Soft Copy: APPROVAL SHEET MUST BE SCANNED IN COLOR. Copy of approval to CMiC
Daily Reports W/O	No	Yes	Supt.	Hard Copy: NA Soft Copy: CMiC / Constructware
Daily Reports Subcontractors	No	Yes	Project Engineer	Hard Copy: Central File Location Soft Copy: Daily Reports\ <i>subcontractor</i>
CQC Daily Reports	No	Yes	CQC Manager	Soft Copy: CMiC/Constructware
TPoC Meeting Minutes	No	Yes	CQC Manager	Soft Copy: CMiC
Non Conformance	No	Yes	CQC Manager	Soft Copy: CMiC
Progress Photos	No	Yes	Assistant Supt	Hard Copy: NA Soft Copy: Daily Progress Photos
Drawing Issuances	Yes	Yes	Document Control	Hard Copy: Central File Location Soft Copy: Documents
Meeting Minutes	No	Yes	Minutes Author	Hard Copy: NA Soft Copy: CMiC



## Transmittals

November 29, 2010

#### Purpose

To ensure contract documents leaving this office have a record.

#### **Policy**

Use and receipt of Transmittals is governed by the information herein.

All contract document exchange with Ownership, Design Team, Subcontractor community and Agencies with Jurisdiction/Authority on the project requires a CMiC transmittal. All transmittals are created in CMiC with the reference documents listed and uploaded as attachments in CMiC. All transmittals with incoming documents are date stamped, scanned and uploaded with the documents to the pertinent folder and CMiC.

Below is a listing of all contract documents that require a transmittal to capture the exchange/submission:

- Billing
- Submittals
- Design Review reports
- Schedules & Reports
- Cost Estimates
- Drawings
- Close-out documents
- Attic Stock

### Procedure

Transmittal tracking numbers are auto populated in CMiC.

**Subject (RE):** The subject should be the same description used on other documents (ex. PCI's, Letters, e-mail, etc.) Subject should be descriptive and should include appropriate sub-job, TG Package # and description.

Remarks: Include in the remarks form the first sentence should read

RE: Transbay Transit Center [Preconstruction/TCB/Utilities/Bus Ramps select one] - 30100.[##}



## Transmittals

November 29, 2010

#### CMiC

Generating a Transmittal in CMiC requires completion of the following input:

- From, To and CC individuals.
- Re: is the same as subject
- o Via
- Due date(if applicable)
- Actions as appropriate
- Remarks (Do not list transmittal items in this section)
- Individual Transmittal Item listing including quantity, date, reference, description, comment and status stamp and initial all incoming document cover pages.

#### Linking Documents to CMiC

All documents being transmitted should be uploaded to CMiC under the appropriate folder under "documents".

If there is not a specific folder the type of document being transmitted, include it in "Webcor Other Attachments".

Reference Naming Convention P&P for naming of linked documents.

#### **Sending Documents to Ownership**

All documents will be sent via ConstructWare by the Document Control team.



## **Distribution Matrix**

November 18, 2011

### Purpose

To establish guidelines for who receives what documents and in what form.

### **Policy**

All documents received by Document Control will be distributed according to the matrices.

#### Procedure

Distribution Matrices have been established for:

- 1. Internal & Drawing Distribution
- 2. External Distribution
- 3. Inspection Distribution

#### Transbay Internal Drawing Distribution Matrix



Date	Revision #
3/28/2012	4

F:\Transbay\WEBCOR\Document Control (Joanne & Manny)\Procedures\Working Files\4.0 DOCUMENT CONTROL\42 Distribution Matrix\Drawing Distribution MatrixRev4.xlsx

#### TRANSBAY TRANSIT CENTER DISTRIBUTION MATRIX WEBCOR/OBAYASHI External

		General Correspondence								Trade Specific Correspondence						Purchasing		Engineering	
P = Primary CC = Copy		sər	s/co	ings	dates				ing/Constructability	/PCO		Transit Center Bldg 30100.01			ation - 30100.03	- 30100.05	s and Coorespondence		bmittals
Group	Name	Contract Iss	Amendment	Progress Bill	Schedule Up	DAON/QAON	Quality	Safety	Cost Estimat	Field Orders	TG03	TG05	TG08	т619	Utility Reloc	Bus Ramps -	Bid Package	QBDs	RFI's and Su
	Steve Rule	сс	сс	сс	Р	Р	сс	сс	сс	сс	сс	Ρ	Ρ	Р	Р	Ρ	Р	сс	
	Jack Adams				сс	сс	сс	Ρ			сс	сс	сс	сс	сс	СС			
	Saeid Elmi						Р												СС
Turner	Gwynne Powell	сс	Р	Р	сс	сс				Р									
Turner	Gary Krutsch										сс	сс	сс	сс	сс	сс	сс	Р	Р
	Kevin Chiu										сс							сс	сс
	Steve Cunningham				сс	сс		СС			сс				сс				
	Turner Doccontrol	сс	сс	сс	сс	сс	сс	сс	сс	сс	сс	сс	сс	сс	сс	сс	сс	сс	СС
	Emilio Cruz	сс	сс		сс	сс													
	Steve Perreault	сс	сс	сс	сс	сс			сс	сс									
	Jim Coughlin		сс		СС	СС			Ρ	сс									
	Jason Partin				сс	сс													
	Alfred Lau	сс	сс				сс	сс	сс	сс	сс	сс	сс	сс	сс	сс			
	Mark O'Dell								сс	сс			сс						
PMPC	Guy Hollins														сс				
	Phil Sandri													сс		сс			
	Prasad Nimmigadda								сс										
	Whitney Campbell						сс												
	Roger Rothenburger										сс								
	Doug Jacobson										сс								
	PMPC DocControl	сс	сс	сс	сс	сс	CC	CC	CC	CC	сс	сс	сс	CC	CC	CC	сс	СС	сс
	Bob Beck					сс													
TJPA	Brian Dykes					сс					Р								
	*TJPA DocControl	сс	сс	сс	сс	сс	сс	сс	сс	сс	сс	сс	сс	сс	сс	сс	сс	сс	СС

\*All correspondence for TJPA will be sent to Doc. Control and will direct correspondence for action, information, etc.

#### Internal Distribution Matrix Rev7.xlsx

			Gene	eral C	orresp	onde	nce	Trade Specific Correspondence								
									TI	ransit	Cent	er Blo	lg	.03		
P = Primary cc = copy		Contract Issues	Amendments/CO	Progress Billings	Schedule	Quality	Safety	Pre Construction	TG03-BSE	TG05-Logistics	TG08-Glazing	TG019-301 Mission Wall	TG06-Below Grade	Utility Relocation - 30100.	Bus Ramps - 30100.05	
			Field Orders Submittals													
											S	ubmit	tals			
			AI	l Corr	espor	ndenc	е									
Group Name												PCO	<u>s</u> 's			
	Jes Pedersen	СС														
L L L	Hidetake Taniguchi	сс	сс	сс	сс	сс	сс	СС	сс						СС	
Ξ	Richard Gangitano	Р	Р		сс	сс	сс		сс	сс	сс	сс	сс	сс	СС	
AAG	Brian Morton	сс	сс		СС	сс	СС		сс	СС	сс	СС	СС	сс	СС	
MAN	Todd Mercer	сс	сс	Р		сс	сс	Ρ				сс			CC	
2	Kurt Ricci	сс	сс	сс	СС	сс	СС	сс	сс	СС	СС	СС	сс	СС	СС	
PROJECT ACCT	Jasmin Lautt		сс	СС												
	Sarah Boyd			сс												
	Julie O'Brien		сс													
Controls	Ted Williams	сс	сс	СС					сс	сс	сс	сс	СС	сс	СС	
DOCUMENT CTRL	Avaline Feliciano	сс	СС	СС	СС	сс	СС	CC	сс	СС	СС	сс	CC	СС	CC	
SAFETY	Ray Ramierez						Р									
QUALITY CTRL	Bob Garcia					Р		CC	СС	CC	CC	СС	CC	CC	CC	
	Lynn Kowallis					СС		СС	СС	СС	СС	СС	СС	СС	CC	
SCHEDULING	David Hungerford				Р			CC				Р				
Virtual Building	Frank Haase				СС			CC								
	Mike Brown				СС			CC								
	Kirk Nielsen								Р							
LDG	Mike Poole								СС			CC	CC	CC		
R BI	Joanne Filipas								CC							
NTE 0.01	David Fields								CC							
CEI	Pat Griffin								CC							
USIT 3(	Jim Tomaszewski								CC							
RAN	Chad Matthews								CC							
F	Brian Perez								CC				_			
	Jeff Heath							CC			Р		Р		CC	

#### Internal Distribution Matrix Rev7.xlsx

			Gen	eral C		Trade Specific Correspondence									
									TI	ransit	Cent	er Blo	lg	03	
P = Primary cc = copy		Contract Issues	Amendments/CO	Progress Billings	Schedule	Quality	Safety	Pre Construction	TG03-BSE	TG05-Logistics	TG08-Glazing	TG019-301 Mission Wall	TG06-Below Grade	Utility Relocation - 30100.	Bus Ramps - 30100.05
											Fie	eld Oı	rders		
											S	ubmit	tals		
			A	l Corr	espor	ndenc	е	Inspections							
-							RFI's								
Group	Namo												· C		
Group	Name											PCO	S		
Group	Jodi Soboll							CC				PCO	cc		
Group	Name Jodi Soboll Manny Saldana							CC	CC	Ρ			cc	CC	
Group	Name Jodi Soboll Manny Saldana Nhi Tran							22 22	CC	Р			cc cc	CC	
Group	Name Jodi Soboll Manny Saldana Nhi Tran Tomoya Imai							CC CC CC	CC	P			cc cc	CC	
Group	Name Jodi Soboll Manny Saldana Nhi Tran Tomoya Imai Sihaya Roselle							22 22 22 22 22	CC	P CC			<b>cc</b> cc cc	CC	
duoud UTILITY N 30100.03	Jodi Soboll Manny Saldana Nhi Tran Tomoya Imai Sihaya Roselle Colin Azevedo							сс сс сс сс	сс	P CC CC			<b>cc</b> cc cc	CC P	
duoud B RELOCATIO 05 N 30100.03	Jodi Soboll Manny Saldana Nhi Tran Tomoya Imai Sihaya Roselle Colin Azevedo Masashi Kojima							22 22 22 22 22 22 22	CC	P cc cc			s cc cc cc cc	CC P	P
BUS UTILITY RAMPS RELOCATIO 0100.05 N 30100.03	Jodi Soboll Manny Saldana Nhi Tran Tomoya Imai Sihaya Roselle Colin Azevedo Masashi Kojima							сс сс сс сс сс		P CC CC			s cc cc cc	сс Р	P



## **Design Documents**

January 10, 2011

#### Purpose

To receive, review and distribute design documents sent to W/O from TJPA.

#### **Policy**

All design documents will go through document control and be distributed electronically to the entire team. Only selective members of the team will receive hard copies.

### Procedure

- 1. Document Control Engineer (DCE) receives design documents from TJPA via Hard copy, compact disc, electronically or download from ConstructWare.
- 2. DCE reviews documents for completeness.
  - a. If documents received are incomplete, DCE responds immediately via e-mail indicating the documents are incomplete and W/O is not reviewing them.
- 3. DCE creates a new folder in the Owner-Documents folder for the received file.
- 4. DCE distributes link to electronic file
- 5. DCE determines drawing order requirements for Ford Graphics.
  - a. DCE to follow PO procedure for ordering drawings (see PO procedure).
- 6. DCE places order once the PO is approved by the Project Director.
- 7. DCE receives drawing order and verifies it is complete.
- 8. DCE distributes hard copy design documents to the appropriate personnel.



## Master Project Document Log

January 18, 2011

### Purpose

To track and document all drawings and specifications issued throughout the life of the project and where these documents live.

### **Policy**

The master project document log will be update by Document Control as new drawings and specifications are issued.

### Procedure

- 1. Review master drawing log against drawing log issued with new drawings.
- 2. Update master drawing log when new documents are received with date, revision number and location of where documents are saved.

NOTE – Master Drawing Log has not been established; PMPC to issue master log.



# **Updating Drawings & Specs**

January 10, 2011

### Purpose

To ensure there is an up to date record set of drawings and specifications.

### Policy

All drawings and specifications will be updated and maintained by the project team and document control. Individual team members are responsible for keeping their personal drawings up to date.

### Procedure

Specifications and Drawings will be kept both electronically and in hard copy. Document Set Manager will be the most up to date set of Record Drawings only.

Record Drawings:

- 1. Document Control Engineer (DCE) receives new drawings from TJPA
  - a. DCE follows Design Document procedure for distribution.
- 2. DCE batch plots DWG files in AutoCad to the DSM file.
  - a. Reviews batch plot PDF's against the PDF's provided by TJPA for changes.
- 3. DCE imports PDF's to DSM.
- 4. DCE closes clouds for RFI's that have been captured by the Architect.
- 5. DCE notifies the team that the new drawings are in DSM and comparisons can be done.
- 6. DCM will print full size hard copies of record set drawing as required. Subcontractors and Project Team should reference DSM for the most up to date Record Set.
- 7. DCE updates Construction Drawings to fold in new drawings.

\*\*All RFI's (sent and answered) will be posted to drawings by the author of the RFI. (See RFI procedure).

#### Specifications:

- 1. DCE receives revised specifications from TJPA
  - a. DCE follows Design Document procedure for distribution.
- 2. DCE takes hard copies received from TJPA and updates Record Set of specifications.
- 3. DCE Updates electronic version of current specs.



## **Document Set Manager**

January 26, 2011

#### Purpose

Document Set Manager (DSM) will be utilized on this project to manage our record set of drawings.

**Policy** 

DSM will be used as Webcor/Obayashi's record set of drawings, including all RFI's, Trade Subcontractor As-builts and revisions to drawings. Specifications will not be maintained in DSM.



### **CQC** File Structure

November 16, 2011

#### Purpose

The CQC File Structure is outlined below and will be utilized on this project to store, organize and manage Webcor/Obayashi's CQC Plan, Daily CQC Reports and DFOWs.

#### Policy

Webcor/Obayashi will organize and store CQC documents such as the CQC Plan, Daily CQC Reports and DFOWs on the F:\ drive in a shared folder. CQC Daily Reports will be uploaded into Constructware as the system of record.

### Procedure

CQC documents on the F:\ drive may be found at the following location.

F:\Transbay\WEBCOR\Quality Control

CQC Plans

- CQC Plan Webcor-Obayashi JV:

Daily CQC Reports

- 1. Trinet
- 2. M2
- 3. Transworld
- 4. M2
- 5. BBII
- 6. Chaudry
- 7. Sandis
- 8. Webcor-Obayashi

DFOW

- BBII (TG03)
  - o Preparatory Phase
  - o Initial Phase
  - o Follow-up Phase
- M2 (TG04.1, 04.2, 04.3, 04.4, 04.5, 04.6)

#### CQC Daily Reports in Constructware may be found at the following location.

Constructware CQC Daily Reports

140 - Transit Center Building

- File Director
  - o 10 Quality
    - 12 CQC Reports
      - BBII
      - W-O





### **5. INSPECTIONS AND TESTING**

#### GENERAL

#### **QUALITY INSPECTIONS**

The Webcor/Obayashi JV Quality Control Manager or CQC Manager's alternate will verify that Trade Subcontractors are meeting the requirements outlined in the TJPA Quality Management System Manual, sections 8.5.1 Inspection and Test Planning and 8.5.2 Contractor Inspection Requirements, to provide documented evidence of inspections, lab reports and test results. When specified, the Trade Subcontractors will also perform inspections of all purchased items, perform source inspections, perform first article inspections and perform end process inspections and testing.

#### INDEPENDENT TESTING FIRM REPORTING REQUIREMENTS

When the technical specifications indicate the requirement for services of an independent firm, inspection reports will be submitted promptly by the independent firm in triplicate and distributed, one copy each, to the TJPA Representative, Webcor/Obayashi JV, and the code authority having jurisdiction over the Project and will indicate observations and results of tests and compliance or noncompliance with the requirements as defined in the technical specifications.

### TJPA CODE AND AGENCY TESTING AND INSPECTIONS

When specified, work shall be subject to inspection by representatives of the TJPA and other agencies having jurisdiction (Code and Agency Inspections) to assure compliance with all requirements of Section 00 07 00, General Conditions, Paragraph 8.02.

#### TJPA SPECIAL INSPECTION AND TESTING

The TJPA shall include as part the Construction Management Oversight Consultant's scope, all specified tests to verify that the Work conforms to the requirements of the Contract Documents and to the Quality Control specification, specifically to specification section 01 14 00 Rev 0 Quality Control paragraph 1.5A Tests, and will include the following procedures:

- Verify that testing procedures comply with the contract documents.
- Implement and document control verification and acceptance testing procedures.
- Check testing instruments calibration data against certified standards.
- Promptly submit copies of test reports to: TJPA, Webcor/Obayashi JV and the code authority having jurisdiction over the Project


#### INSPECTION REQUEST PROCEDURE

The Trade Subcontractors CQC Manager will verify that all prerequisites as defined by the contract specifications are completed prior to Code, Agency or Special Inspections. Inspection Request will be submitted to the Webcor/Obayashi JV CQC Manager and the TJPA Construction Management Oversight Manager 48 hours and not more than 72 hours prior to the inspection date. Inspection Requests for Code, Agency and Special Inspections require an "Inspection Request Form" (TJPA provided form) to be completed by Webcor/Obayashi JV or the Trade Subcontractors CQC Manager. The Trade Subcontractor's CQC Manager will facilitate onsite inspections, sampling procedures, test reports, and provide notification to the Webcor/Obayashi JV CQC Manager and TJPA representative when inspections fail or test results fall below specified values.

#### TRADE SUBCONTRACTOR TESTING AND INSPECTION

#### TEST AND INSPECTION PROCEDURES BY TRADE SUBCONTRACTORS

When required in the technical specifications, the Trade Subcontractors shall include as part of their scope all tests to verify that the Work conforms to the Contract Documents and to the Quality Control specification section 01 14 00 Rev 0 paragraph 1.10A Tests, and will include the following procedures:

- Verify that testing procedures comply with the contract documents.
- Verify that all inspection prerequisites are met prior to conducting inspections.
- Submit a testing and inspection matrix with the design submittals showing all required inspections and the entity responsible for performing the tests or inspections.
- Track inspection and test status.
- Verify that the facilities and testing equipment are available and comply with the testing standards.
- Trade Contractors and Suppliers shall have documented procedures to ensure test equipment is in calibration and keep updated lists of all equipment requiring calibration. Trade Contractor shall make calibration records available for review.
- Record results of tests taken, both passing and failing on the trade subcontractor's daily CQC report for the date taken. Specify paragraph reference, location where tests were taken.
- When the services of an independent firm are utilized, reports will be submitted promptly by the independent firm in triplicate and distributed, one copy each, for the TJPA Representative, Webcor/Obayashi JV, and the code authority having jurisdiction over the Project and will indicate observations and results of tests and compliance or noncompliance with the Contract.



- When specified, the Trade Subcontractors shall produce test and inspection plans in accordance with the Program Quality Management System requirements. All testing and measurements specified to be performed by the Trade Subcontractors shall be performed with equipment whose calibration meets national standards and to documented standards when no national standard exists.
- Maintain and submit a log indicating the status of the Trade Subcontractors inspections and tests.

#### CONTROL VERIFICATION AND ACCEPTANCE TESTING PROCEDURES

When specified, The Trade Subcontractors CQC Managers will provide control, verification, and acceptance testing procedures for each specific test to include the test name, specification paragraph requiring test, feature of work to be tested, test frequency, and person responsible for each test. (Laboratory facilities approved by the TJPA Representative must be used.).

When specified, specific control verification and acceptance testing procedures will be provided by the Trade Subcontractors as part of the Trade Subcontractors CQC plans, and will be completed as the specification sections are defined and the Trade Subcontractors are added to the project.

#### TEST REPORTING

Inspection and test status are documented in the Trade Subcontractors Daily Quality Control reports.

#### COMPLETION INSPECTIONS

#### PUNCH-OUT INSPECTION

An inspection of the Work will be conducted by the Trade Subcontractors CQC Manager, near the end of Trade Subcontractor's work. The punch list will include items that do not conform to the approved Drawings and Specifications and the estimated date by which the deficiencies will be corrected. A second inspection by the Trade Subcontractor CQC Manager will ascertain that all deficiencies have been corrected. Once this is accomplished the TJPA Representative will be notified that the facility is ready for the TJPA pre-final inspection.

#### **PRE-FINAL INSPECTION**

The TJPA Representative will perform the pre-final inspection to verify that the facility is complete and ready to be occupied. A TJPA Representative pre-final punch list may be



developed as a result of this inspection. Webcor/Obayashi JV will ensure that all items on this list have been corrected before notifying the TJPA Representative, so that a final inspection can be scheduled. Items noted on the pre-final inspection will be corrected in a timely manner. These inspections and any deficiency corrections required by this paragraph must be accomplished within the time slated for completion of the entire work or any particular increment of the Work if the Project is divided into increments by separate completion dates.

#### FINAL ACCEPTANCE INSPECTION

The CQC System Manager, plus the Contractor's authorized representative and the TJPA Representative must be in attendance at the final acceptance inspection. Additional personnel from affected third parties may also be in attendance. The final acceptance inspection will be formally scheduled by the TJPA Representative based upon results of the pre-final inspection. The TJPA Representative will be notified at least 72 hours prior to the final acceptance inspection and include the Contractor's assurance that all punch list and nonconforming work will be complete and acceptable by the date scheduled for the final acceptance inspection.

## 6. QUALITY CONTROL PROCESS

- COORDINATION MEETING
- PREPARATORY PHASE
- INITIAL PHASE
- FOLLOW-UP PHASE
- TRADE CONTRACTORS CQC PLANS
- TRADE CONTRACTORS CQC MEETINGS



## 6. PROJECT QUALITY CONTROL PROCESS

The contractor quality control process is the means by which the Contractor, Trade Subcontractors and Suppliers, ensure that the construction complies with the requirements of the Contract. At least three phases of control must be conducted by the Trade Subcontractor CQC Manager for each definable feature of the construction work.

#### **COORDINATION MEETING**

After the pre-construction conference for each Trade Work Package, before start of construction, the Trade Contractor shall meet with the TJPA Representative, the TJPA QA Manager and the Webcor/Obayashi JV CQC Manager to discuss the Trade Subcontractor's quality control system as it relates to the work of the trade package. The Trade Subcontractor will submit the CQC Plan a minimum of 15 days prior to the coordination meeting. During the meeting, a mutual understanding of the system details must be developed, including the forms for recording the CQC operations, control activities, testing, administration of the system for both onsite and offsite work, and the interrelationship of Trade Subcontractor's management and control with the TJPA Representative's quality assurance. Minutes of the meeting will be prepared by the TJPA Representative, signed by both the Trade Subcontractor, the TJPA Representative and Webcor/Obayashi JV CQC Manager and will become a part of the Contract file. There may be occasions when subsequent conferences will be called by either party to confirm mutual understandings and/or address deficiencies in the CQC system or procedures that may require corrective action by the Trade Subcontractor.

#### PREPARATORY PHASE:

This phase is performed prior to beginning work on each definable feature of work, after all required plans, documents, and materials are approved and accepted, and after copies are at the work site. This phase includes:

- 1. A review of applicable specifications, reference codes, and standards. The Trade Subcontractor CQC Manager shall make available during the preparatory inspection a copy of those sections of referenced codes and standards applicable to that portion of the Work to be accomplished in the field. Maintain and make available in the field for use by TJPA Representative until final acceptance of the Work.
- 2. Review of the Contract drawings.
- 3. Check to assure that all materials and/or equipment have been tested, submitted, and approved.
- 4. Review of provisions that have been made to provide required control inspection and testing.



- 5. Examination of the work area to assure that all required preliminary work has been completed and is in compliance with the Contract.
- 6. Examination of required materials, equipment, and sample work to assure that they are on hand, conform to approved shop drawings or submitted data, and are properly stored.
- 7. Review of the appropriate activity hazard analysis to assure environmental requirements are met.
- 8. Discussion of procedures for controlling quality of the work including repetitive deficiencies. Document construction tolerances and workmanship standards for that feature of work.
- 9. Check to ensure that the portion of the CQC Plan for the work to be performed has been accepted by the TJPA Representative.
- 10. Discussion of the initial control phase.

The TJPA must be notified at least 48 hours in advance of beginning the preparatory control phase. Include a meeting conducted by the Trade Subcontractor CQC Manager and attended by the Contractor's authorized representative, other CQC personnel (as applicable), and the foreman responsible for the definable feature of work. The Trade Subcontractor CQC Manager shall document the results of the preparatory phase actions by separate minutes and attach the minutes to the daily CQC report. The Trade Subcontractor CQC Manager shall instruct applicable workers as to the acceptable level of workmanship required in order to meet Contract requirements.

#### **INITIAL PHASE:**

This phase is accomplished at the beginning of a definable feature of work. This phase includes:

- 1. Reviewing the minutes of the preparatory meeting.
- 2. Verifying the adequacy of controls to ensure full contract compliance, inspection and testing.
- 3. Establishing level of workmanship and verify that it meets minimum acceptable workmanship standards. Compare with required sample panels as appropriate.
- 4. Resolving all differences.

The TJPA must be notified at least 72 hours in advance of beginning the initial phase. The Trade Subcontractor CQC Manager shall prepare separate minutes of this phase and attach the minutes to the daily CQC report. The meeting will be conducted by the Trade Subcontractor CQC Manager and attended by the Contractor's authorized representative, other CQC personnel (as



applicable), and the foreman responsible for the definable feature of work The initial phase should be repeated for each new definable feature of work.

#### FOLLOW-UP PHASE:

The Trade Subcontractor CQC Manager shall perform daily checks to assure control activities, including control testing, are providing continued compliance with contract requirements until completion of the particular feature of work. Record the checks in the CQC documentation. Conduct final follow-up checks and correct all deficiencies prior to the start of additional features of work that may be affected by the deficient work. Do not build upon or conceal non-conforming work.

#### TRADE SUBCONTRACTORS QUALITY CONTROL PLAN

After contract award and prior to beginning construction activities each Trade Subcontractor will submit (per specification section 01 13 00 Submittals, paragraph 1.4) to the Webcor/Obayashi Joint Venture CQC Manager their project specific quality control plan for review and approval. Each Trade Subcontractor will designate and provide a project specific Trade Subcontractor Quality Control Manager who reports to the Webcor/Obayashi JV CQC Manager and who's primary responsibility will be to implement and manage the Trade Subcontractor's quality control plan and certify theTrade Subcontractor's compliance with the Webcor/Obayashi Joint Venture Quality Control Plan and all quality control requirements contained in the project docuements including specification section 01 14 00 Quality Control. The Trade Subcontractors CQC program will be reviewed for compliance to the Contract Documents. In addition to the requirements contained in other sections of this Plan the Trade Contractors Quality Control Program will include:

- CQC Organization chart.
- Procedures for fabrication and installation.
- Procedures for planning and verifying compliance and controlling quality of the work (including checklist forms).
- Procedures for layout verification.
- Coordination with related contractors.
- List of specified tolerances and workmanship standards for each DFOW.
- Daily CQC Reports.
- Program for identifying and correcting defective work.
- Inspection, test and acceptance procedures when specified in the Technical Specifications to be part of the Trade Subcontractors scope.



## TRADE SUBCONTRACTORS QUALITY CONTROL MEETINGS

In addition to the Three Phase of Control Meetings, A Trade Subcontractor CQC Meeting will be part of the Weekly Trade Subcontractors Meetings held by the Webcor/Obayashi JV Project Superintendent or Project Manager. The Trade Subcontractor CQC Manager will review current CQC issues as a segment of the weekly meeting; addressing the schedule, testing, inspection, rework log, failed inspection status, short-term schedule of CQC activities, project tests, submittal status, factory verification requirements, inspection results and any other CQC issues relevant to the current activities.

# 7. NON-CONFORMANCE AND CORRECTIVE ACTION

- OVERVIEW
- NON-CONFORMANCE OBSERVATIONS AND REPORTING
- NON-CONFORMANCE REPORT (NCR)
- NON-CONFORMANCE LOG
- CONTROL THE CONTINUATION OF WORK
- CORRECTIVE ACTION PLAN (CAP)



## 7. Non-conformance and Corrective Action

#### **OVERVIEW**

Should a non-conformance be identified by an inspection there is a systematic method to control the item, correct it, and ensure that project quality is not adversely impacted by the event. A non-conformance is an item that does not meet the requirements of the project specifications.

#### NON-CONFORMANCE OBSERVATIONS AND REPORTING

When work is identified as non-conforming it will immediately be segregated. Segregation may occur by physical isolation and cordoning off of work/materials, or conspicuously identified by tags/markings when physical isolation is not possible. The Trade Subcontractor CQC Manager will complete a Non-Conformance Report (NCR) (see forms Tab 12), and submit the report to the Webcor/Obayashi JV CQC Manager. Webcor/Obayashi JV will enter the non-conformance issue into CMiC for internal tracking. The NCR will be forwarded to the TJPA Construction Management Oversight Manager whose responsibility it is to track all project-wide non-conforming work. NCRs will be entered into Vela, TJPAs chosen system to track all non-conforming work.

#### NON-CONFORMANCE REPORT (NCR)

When completing the Non-Conformance Report the Trade Subcontractor CQC Manager will describe the work in detail, its location, a description of the deficiency and the proposed resolution and actions taken to prevent the recurrence of the non-conformance (see form in Tab 12). Supporting documentation may be attached as necessary. The report will be forwarded to the Webcor/Obayashi JV CQC Manager and the TJPA Construction Management Oversight Manager for review and approval. Non-conformance Report contents are summarized as follows:

- Section 1: Non-conformance identification info: Contractor, location date, etc.
- Section 2: Description of Non-conformance
- Section 3: Cause
- Section 4: Recommended Field Engineer Disposition (Trade Subcontractor CQC Manager)
- Section 5: Project Engineering Disposition (TJPA)
- Section 6: Disposition Results
- Section 7: Corrective action and steps taken to prevent recurrence



#### NON-CONFORMANCE LOG

The project-wide Non-Conformance Tracking Log is maintained by the TJPA Construction Management Oversight. Webcor/Obayashi JV and the Trade Subcontractors will maintain Non-Conformance logs appropriate for their scope of work

#### CONTROL THE CONTINUATION OF WORK

After the item of work is identified and segregated from all other active work, the Trade Subcontractor CQC Manager will determine if work can continue in the affected area. When continuing work can adversely affect quality or hide the defect, work must stop in the affected area until the disposition of the item is resolved. The Trade Subcontractor CQC Manager identifies and clearly labels the limits of the affected stop work areas.. Non-conforming work may be reworked to meet requirements, accepted as is, repaired, or rejected. If accepted as is or repaired, the Engineer of Record needs to approve the deviation from original specifications. When appropriate, non–conforming work may require an approved Corrective Action Plan.

#### CORRECTIVE ACTION PLAN (CAP)

Once a NCR cause has been determined, a written Corrective Action Plan (CAP) will be created for non-conforming work. The CAP will be created by the Trade Subcontractor and submitted to Webcor/Obayashi's CQC Manager who will review and forward it to the TJPA Representative via Constructware. Webcor/Obayashi will attach the submitted CAP to the NCR in CMiC for internal tracking. Once approved, the CAP will be implemented by the Trade Subcontractor. Implementation of the CAP will be documented and monitored by the TJPA Construction Management Oversight Manager.





## 8. <u>Reporting</u>

#### **Daily Reports**

- Webcor/Obayashi JV Daily CQC reports (see Tab 12 "Forms")
- Trade Subcontractors Daily CQC reports (see Tab 12 "Forms")

#### Weekly Reports

- Webcor/Obayashi JV Submittal log
- Webcor/Obayashi JV Requests for Information log

#### Monthly Reports

- Webcor/Obayashi JV Construction Monthly Report
- Webcor/Obayashi JV CQC Managers Monthly Status Report (included in the Construction Monthly Report

#### Periodic forms, reports and lists

- Definable Features of Work (DFOW) list
- Non-Conformance Report (see Tab 12 "Forms")
- Non-Conformance Log
- Independent testing agency reports



#### TRADE SUBCONTRACTORS QUALITY CONTROL REPORTING REQUIREMENTS

In addition to other information and documentation required to be submitted, described elsewhere in this CQC plan, the Trade Subcontractors CQC Manager will submit the following documents promptly to the Webcor/Obayashi JV CQC Manager:

- Trade Subcontractor Daily CQC reports
- Independent testing agency reports, calibration reports, (may be included as part of the Trade Subcontractor's Daily CQC report
- Preparatory Phase Meeting Documentation
- Initial Phase Meeting Documentation
- Follow-up Phase Changes in Procedures
- Non-Conformance Reports and associated corrective action plans (as required)





## 9. DEFINABLE FEATURES OF WORK (DFOW)

The Webcor/Obayashi CQC Manager working with the Trade subcontractors and production team reviews the project schedule, plans and specifications to establish a list of definable features of work. Each Definable Feature of Work is separate and distinct from the other tasks. It may have unique control requirements and be associated with each individual trade discipline and/or trade subcontractor.

This DFOW list will be developed incrementally and additional DFOWs will be added as trade subcontractors are brought on board. Trade subcontractors will submit their DFOW lists for approval, as part of their CQC Plans prior to the start of work. The DFOW list will be maintained in the Project Baseline Schedule (R3) 30100-11.09.06 and in spreadsheet format (see page 2 in this section; Tab 9). The DFOW list will include associated submittals.

Job Number	Trade Group	Baseline Schedule Activity ID	Trade Group Number	Discription	Meeting Phase	Trade Subcontractor	Meeting Date	Actualized	Submittals
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB42160	TG03	Traffic Control	Preparatory	BBII	5/11/2011	5/11/2011	TG0300-170 - Traffic Control TG0300-172 - Traffic Control Minna and Natoma TG0300-173 - Traffic Control Howard St. Gate TG0300-174 - Traffic Control Fease Bhase III at Fremont St.
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB52100	TG03	Traffic Control	Initial	BBII	5/11/2011	5/11/2011	
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB51900	TG03	Pre-Trench	Preparatory	BBII	3/30/2011	3/30/2011	
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB52000	TG03	Pre-Trench	Initial	BBII	3/30/2011	3/30/2011	
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB43140	TG03	Test Pile Extraction	Preparatory	BBII	3/28/2011	3/28/2011	TG0300-300 - Pile Removal - Trial Extraction Plan and Design Report
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB51600	TG03	Test Pile Extraction	Initial	BBII	3/29/2011	3/29/2011	
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB51700	TG03	Pile Extraction Production	Preparatory	BBII	4/11/2011	4/11/2011	TG0300-310 - Pile Removal - Production Extraction Plan TG0300-311 - Existing Pile Extraction Documentation
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB51800	TG03	Pile Extraction Production	Initial	BBII	4/11/2011	4/11/2011	
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB52400	TG03	Test CDSM Shoring Wall	Preparatory	BBII	5/2/2011	5/2/2011	
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB52500	TG03	Test CDSM Shoring Wall	Initial A	BBII	5/2/2011	5/2/2011	
30.100.01	Transit Center Building - Buttress/Shoring/Excavation		TG03	Test CDSM Shoring Wall	Initial B	BBII	7/7/2011	7/7/2011	
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB52600	TG03	CDSM Shoring Wall Production	Preparatory	BBII	6/1/2011	6/1/2011	TG0300410 - Struct I Steel - Part 1 TG0300412 - Struct Steel - Qualifications of Welders TG0300412 - Struct Steel - Mic's Submittals (On-going) TG0300413 - Struct Steel - Add' Weld procedures TG0300414 - Struct Steel - Add' Weld Procedure - 30 Degree Welding TG0300416 - Struct Steel - Add' Weld Procedure - 30 Degree Welding TG0300581 - Shoring Wall TG0300581 - Shoring Wall - LEED Submittal TG0300-S81 - Shoring Wall - LEED Submittal TG0300-S81 - CDSM Wall Corrective Action Plans TG0300-S85 - CDSM Wall Beam #S53 Alignment Corrective Action Plan TG0300-S85 - CDSM Vall Beam #S53 Alignment Corrective Action Plan TG0300-S85 - CDSM Vall Beam #S53 Alignment Corrective Action Plan
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB52700	TG03	CDSM Shoring Wall Production	Initial	BBII	7/7/2011	7/7/2011	
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB52800	TG03	Install Buttress Shafts	Preparatory	BBII	8/30/2011	8/30/2011	160300-380 - Concrete - General Site Mix Design 160300-381 - Concrete - CISM Mix Designs - Buttress Shoring Wall & Pile Extraction 160300-382 - Concrete - CISM Mix Designs - Buttress Shoring Wall & Pile Extraction 160300-383 - Buttress Concrete - Trial Batch Porgram 160300-386 - Buttress Concrete - Trial Batch Porgram 160300-386 - Buttress Concrete - Trial Batch Porgram 160300-388 - Buttress Concrete - Primary Shaft Buttress Mix Designs 160300-389 - Buttress Concrete - Primary Shaft Buttress Mix Designs 160300-389 - Buttress Concrete - Primary Shaft Buttress Mix Designs - Add'l Mixes 160300-389 - Buttress Concrete - Schelt Coarse Aggregate 160300-391 - Buttress Concrete - Primary Shaft Buttress Mix Designs - Add'l Mixes II 160300-400 - Buttress Concrete - Closeout 160300-00 - Drilled Shafts - Installation Plan - Supplemental Submittals 160300-610 - Drilled Shafts - Installation Plan - Supplemental Submittals 160300-610 - Drilled Shafts - Installation Plan - Supplemental Submittals 160300-610 - Drilled Shafts - Installation Plan - Supplemental Submittals
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB52900	TG03	Install Buttress Shafts	Initial	BBII	9/13/2011	9/13/2011	
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB53000	TG03	Buttress Rebar	Preparatory	BBII	8/1/2011	8/1/2011	TG0300-320 - Rebar - Informational Submittals and buttress Shop Dwgs.
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB53100	TG03	Buttress Rebar	Initial A	BBII	10/26/2011	10/26/2012	
30.100.01	Transit Center Building - Buttress/Shoring/Excavation		TG03	Buttress Rebar	Initial B	BBII	10/31/2011	10/31/2011	
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	UT-203801	TG03	PG&E Phase 2 Infrastructure	Preparatory	BBII	10/18/2011	10/18/2011	TG0300-901 - CR T-017R1 PG&E Phase II Work at First St. TG0300-903 - PG&E Phase II Work at Fremont St.

30.100.01	Transit Center Building - Buttress/Shoring/Excavation	UT-203901	TG03	PG&E Phase 2 Infrastructure	Initial	BBII	10/19/2011	10/19/2011	
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB10780	TG03	Demo Basement	Preparatory	BBII	11/9/2011	11/9/2011	
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB10880	TG03	Demo Basement	Initial	BBII	11/28/2011	11/28/2011	
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB17300	TG03	Install Walers (Internal Bracing)	Preparatory	BBII	11/15/2011	11/15/2011	T60300-490 - Geotechnical Instrumentation & Monitoring     TC0300-491 - Internal Bracing - Eprimera % Peer Reviewer Information & Qualifications     TC0300-541 - Internal Bracing - 100% Design     TG0300-541 - Internal Bracing - 100% Design     TG0300-541 - Internal Bracing - 100% Design     TG0300-541 - Internal Bracing - Installer Qualification, QC/Construction, & Inspection Plan     TG0300-543 - Internal Bracing - Installer Qualification, QC/Construction, & Inspection Plan     TG0300-544 - Internal Bracing - Installer Qualification, OC/Construction, & Inspection Plan     TG0300-543 - Internal Bracing - Installer Qualification, OC/Construction, & Inspection Plan     TG0300-544 - Internal Bracing - Hooding Procedures     TG0300-545 - Internal Bracing - Qualifications of Welders     TG0300-546 - Internal Bracing - Weiding Procedures     TG0300-547 - Internal Bracing - Weiding Procedures (Shop Welding)     TG0300-549 - Internal Bracing - Weiding Procedures (AdV)     TG0300-549 - Internal Bracing - Re-Bracing     TG0300-549 - Internal Bracing - Re-Bracing     TG0300-549 - Internal Bracing - Re-Bracing
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB53400	TG03	Install Walers (Internal Bracing)	Initial A	BBII	1/13/2012	1/13/2012	
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB53400	TG03	Install Walers (Internal Bracing)	Initial B	BBII	TBD		
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB10680	TG03	Mass Excavation/Wood Pile Extraction	Preparatory	BBII	12/14/2011	12/14/2011	TG0300420 - Mass Excavation - Qualified Person and Quality Plan TG03004420 - Mass Exc Material Samples TG0300440 - Mass Exc Material Backfill TG0300450 - Mass Exc UEED TG0300450 - Mass Exc Work Plan TG0300480 - Mass Exc Work Plan
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB52300	TG03	Mass Excavation/Wood Pile Extraction	Initial	BBII	1/13/2012	1/13/2012	
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB17600	TG03	Install Pin Piles	Preparatory	BBII	1/25/2012	1/25/2012	TG0300-280 - Access Trestle TG0300-281 - CLSM Mix for Pinle & Trestle Pile Installation TG0300-290 - Access Trestle - Preconstruction Photos
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB53300	TG03	Install Pin Piles	Initial	BBII	1/27/2012	1/27/2012	TG0300-280 - Access Trestle TG0300-281 - CLSM Mix for Pinle & Trestle Pile Installation TG0300-290 - Access Trestle - Preconstruction Photos
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB15200	TG03	Zone 1 Trestle (Combined with Pin Piles)	Preparatory	BBII	1/25/2012	1/25/2012	TG0300-280 - Access Trestle TG0300-281 - CLSM Mix for Jin Pile & Trestle Pile Installation TG0300-290 - Access Trestle - Preconstruction Photos
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB52200	TG03	Zone 1 Trestle	Initial	BBII	2/8/2012	2/8/2012	TG0300-280 - Access Trestle TG0300-281 - CLSM Mik for In Pile & Trestle Pile Installation TG0200-291 - Acress Trestle - Preconstruction Photos
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB10620	TG03	Dewatering	Preparatory	BBII	2/13/2012	3/2/2012	TG0300-520 - Dewatering TG0300-521 - Dewatering - Initial Installation Report TG0300-522 - Dewatering - System Pump Test TG0300-525 - Dewatering - System Pumping Data (Weekly) TG0300-527 - Dewatering - Pre-trenching Only TG0300-530 - Dewatering - Oscowatering - Oscowatering - State Out
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB53200	TG03	Dewatering	Initial	BBII	2/14/2012	3/2/2012	
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB56312	TG03	Trestle Struts / Supports (Part of Bracing)	Preparatory	BBII	2/13/2012	1/3/1900	Submittals for this DFOW are the sams as Install Walers B817300
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB56412	TG03	Trestle Struts / Supports (Part of Bracing)	Initial	BBII	2/15/2012		
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB56912	TG03	Trestle Superstructure	Preparatory	BBII	4/13/2012		
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB57012	TG03	Trestle Superstructure	Initial	BBII	4/19/2012		
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	BG-BB12300	TG03	Test Micropile	Preparatory	BBII	8/31/2012		
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	BG-BB42220	TG03	Test Micropile	Initial	BBII	9/5/2012		
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	BG-BB42320	TG03	Micropile Production	Preparatory	BBII	10/25/2012		T60300-620 - Micropiles T60300-630 - Micropiles - Performance & Proof Test T60300-640 - Micropiles - Grout Test

30.100.01	Transit Center Building - Buttress/Shoring/Excavation	BG-BB42420	TG03	Micropile Production	Initial	BBII	10/30/2012	
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB20800	TG03	First Street Bridge	Preparatory	вви	5/8/2012	TG0300-200 - Temp Bridges - Qualifications Data     TG0300-201 - Temp Bridges - Struct. Dwg & Calc     TG0300-202 - Temp Bridges - Peer Review     TG0300-203 - Temp Bridges - Peer Review     TG0300-203 - Temp Bridges - Jultily Supports     TG0300-204 - Temp Bridges - Traffe Plan - First, Fremont, Beale Streets     TG0300-205 - Temp Bridges - Geometrics - First, Fremont, Beale Streets     TG0300-205 - Temp Bridges - Moduct Data     TG0300-210 - Temp Bridges - Misc. Materials     TG0300-210 - Temp Bridges - Nisc. Materials     TG0300-210 - Temp Bridges - Nisc. Materials     TG0300-20 - Temp Bridges - Steel Manufacturer Scettificates or Coupon Tests     TG0300-24 - Temp Bridges - Concrete Mix Designs     TG0300-25 - Temp Bridges - Perconstruction Photos Fires 01.     TG0300-26 - Temp Bridges - Perconstruction Photos Fires 01.     TG0300-26 - Temp Bridges - Perconstruction Photos Fires 01.     TG0300-26 - Temp Bridges - Perconstruction Photos Fires 01.     TG0300-26 - Temp Bridges - Perconstruction Photos Fires 01.     TG0300-26 - Temp Bridges - Perconstruction Photos Fires 01.     TG0300-26 - Temp Bridges - Preconstruction Photos Beale 01.
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB20900	TG03	First Street Bridge	Initial	BBII	5/11/2012	TG3300-200   Temp Bridges - Qualifications Data     TG3300-200   Temp Bridges - Qualifications Data     TG3300-201   Temp Bridges - Qualifications Data     TG3300-202   Temp Bridges - Struct. Dwgs & Calc     TG3300-203   Temp Bridges - Peer Review     TG3300-203   Temp Bridges - Utility Supports     TG3300-204   Temp Bridges - First, Fremont, Beale Streets     TG3300-205   Temp Bridges - Mount Data     TG3300-201   Temp Bridges - Mount Data     TG3300-202   Temp Bridges - Mount Data     TG3300-215   Temp Bridges - Mount Data     TG3300-215   Temp Bridges - Mount Data     TG3300-215   Temp Bridges - Mice. Materials     TG3300-215   Temp Bridges - Mun DCS Installation Plan Beale SL     TG3300-216   Temp Bridges - NuNIN DCS Installation Plan Eale SL     TG3300-201   Temp Bridges - Steel Manufacturer Certificates or Coupon Tests     TG3300-204   Temp Bridges - Perconstruction Photos Fires SL     TG3300-205   Temp Bridges - Perconstruction Photos Fires SL     TG3300-206   Temp Bridges - Perconstruction Photos Fires SL     TG3300-206   Temp Bridges - Perconstruction Photos Seles SL
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB20800	TG03	First Street Bridge	Preparatory	вви	4/4/2012	TG0300-200   Temp Bridges - Struct. Dwgs & Calc     TG0300-201   Temp Bridges - Peer Review     TG0300-202   Temp Bridges - Peer Review     TG0300-203   Temp Bridges - Utility Supports     TG0300-204   Temp Bridges - Utility Supports     TG0300-205   Temp Bridges - Frist, Fremont, Beale Streets     TG0300-205   Temp Bridges - Product Data     TG0300-205   Temp Bridges - Product Data     TG0300-205   Temp Bridges - Product Data     TG0300-205   Temp Bridges - Misc. Materials     TG0300-205   Temp Bridges - Misc. Materials     TG0300-205   Temp Bridges - Misc. Materials     TG0300-205   Temp Bridges - Steel Manufacturer Schlaftation Plan First St.     TG0300-240   Temp Bridges - Concrete Mix Designs     TG0300-240   Temp Bridges - Perconstruction Photos First St.
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB20900	TG03	First Street Bridge	Initial	вви	4/9/2012	TG0300-200   Temp Bridges - Qualifications Data     TG0300-201   Temp Bridges - Netrot: Dwgs & Calc     TG0300-202   Temp Bridges - Vertex Dwgs & Calc     TG0300-203   Temp Bridges - Vertex Dwgs     TG0300-204   Temp Bridges - Traffe Plan - First, Fremon, Beale Streets     TG0300-205   Temp Bridges - Product Data     TG0300-205   Temp Bridges - Product Data     TG0300-205   Temp Bridges - Product Data     TG0300-210   Temp Bridges - Misc. Materials     TG0300-220   Temp Bridges - Misc. Materials     TG0300-230   Temp Bridges - Misc. Materials     TG0300-240   Temp Bridges - Misc. Materials     TG0300-240   Temp Bridges - MUNI OCS Installation Plan Beale St.     TG0300-240   Temp Bridges - MUNI OCS Installation Plan First St.     TG0300-240   Temp Bridges - Steel Manufacturers Certificates or Coupon Tests     TG0300-240   Temp Bridges - Concrete Mix Designs     TG0300-240   Temp Bridges - Preconstruction Photos First St.     TG0300-240   Temp Bridges - Preconstruction Photos Firenot St.     TG0300-240   Temp Bridges - Preconstruction Photos Steale St.

30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB21000	TG03	First Street Bridge Utilities	Preparatory	BBII	5/8/2012	TG0300.200 - Temp Bridges - Qualifications Data TG0300.200 - Temp Bridges - Struct. Dwgs & Calc TG0300.202 - Temp Bridges - Struct. Dwgs & Calc TG0300.203 - Temp Bridges - Peer Review TG0300.203 - Temp Bridges - Tific Plan - First, Fremon, Beale Streets TG0300.205 - Temp Bridges - Tific Plan - First, Fremont, Beale Streets TG0300.205 - Temp Bridges - Misc. Materials TG0300.215 - Temp Bridges - Misc. Materials TG0300.220 - MUNI OCS Installation Plan First St. TG0300.220 - Temp Bridges - Wolder AWS Cert. TG0300.240 - Temp Bridges - Velder AWS Cert. TG0300.240 - Temp Bridges - Concrete Mix Designs TG0300.248 - Temp Bridges - Concrete Mix Designs TG0300.248 - Temp Bridges - Read Manufacturer Certificates TG0300.248 - Temp Bridges - Reconstruction Photos First St. TG0300.264 - Temp Bridges - Preconstruction Photos First St. TG0300.264 - Temp Bridges - Preconstruction Photos First St.
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB21100	TG03	First Street Bridge Utilities	Initial	BBII	5/11/2012	TG0300.200 - Temp Bridges - Qualifications Data TG0300.200 - Temp Bridges - Struct. Dwgs & Calc TG0300.203 - Temp Bridges - Struct. Dwgs & Calc TG0300.203 - Temp Bridges - Deer Review TG0300.203 - Temp Bridges - Trist, Fremont, Beale Streets TG0300.205 - Temp Bridges - Trist, Fremont, Beale Streets TG0300.205 - Temp Bridges - Misc. Materials TG0300.215 - Temp Bridges - Misc. Materials TG0300.220 - MUNI OCS Installation Plan First St. TG0300.240 - Temp Bridges - Wolder AWS Cert. TG0300.240 - Temp Bridges - Oncrete Mix Designs TG0300.240 - Temp Bridges - Concrete Mix Designs TG0300.248 - Temp Bridges - Concrete Mix Designs TG0300.248 - Temp Bridges - Concrete Mix Designs TG0300.248 - Temp Bridges - Read Manufacturer Certificates TG0300.248 - Temp Bridges - Read Manufacturer Certificates TG0300.248 - Temp Bridges - Preconstruction Photos First St. TG0300.264 - Temp Bridges - Preconstruction Photos First St.
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB21000	TG03	First Street Bridge Utilities	Preparatory	BBII	4/4/2012	160300.200 - Temp Bridges - Qualifications Data 160300.200 - Temp Bridges - Struct. Dwgs & Calc 160300.202 - Temp Bridges - Struct. Dwgs & Calc 160300.203 - Temp Bridges - Peer Review 160300.203 - Temp Bridges - Tiffic Plan - First, Fremont, Beale Streets 160300.205 - Temp Bridges - Mills Plan - First, Fremont, Beale Streets 160300.205 - Temp Bridges - Mills Charlow - Temp Bridges - Mills - Mills 160300.202 - Temp Bridges - Wolder AWS Cert. 160300.240 - Temp Bridges - Concrete Mills Designs 160300.248 - Temp Bridges - Concrete Mills Designs 160300.248 - Temp Bridges - Rocrete Mills Designs 160300.249 - Temp Bridges - Recordstruction Photos First St. 160300.264 - Temp Bridges - Preconstruction Photos First St. 160300.264 - Temp Bridges - Preconstruction Photos First St. 160300.264 - Temp Bridges - Preconstruction Photos Beale St.
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB21100	TG03	First Street Bridge Utilities	Initial	BBII	4/9/2012	160300-200 - Temp Bridges - Qualifications Data 160300-200 - Temp Bridges - Qualifications Data 160300-201 - Temp Bridges - Per Review 160300-203 - Temp Bridges - Temp

30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB48420	TG03	Fremont Street Bridge	Preparatory	BBII	6/20/2012	TG330-200 - Temp Bridges - Qualifications Data TG030-201 - Temp Bridges - Struct. Dwgs & Calc TG300-202 - Temp Bridges - Struct. Dwgs & Calc TG300-203 - Temp Bridges - Utility Supports TG300-203 - Temp Bridges - Utility Supports TG300-205 - Temp Bridges - Tells Plan - First, Fremon, Beale Streets TG300-205 - Temp Bridges - Misc. Materials TG300-205 - Temp Bridges - Misc. Materials TG300-202 - Temp Bridges - Misc. Materials TG300-202 - Temp Bridges - Misc. Materials TG300-202 - Temp Bridges - Wolder AWS Cert. TG300-203 - Temp Bridges - Welder AWS Cert. TG300-240 - Temp Bridges - Welder AWS Cert. TG300-248 - Temp Bridges - Welder AWS Cert. TG300-248 - Temp Bridges - Neuros Certificates TG300-248 - Temp Bridges - Neuros Certificates TG300-269 - Temp Bridges - Neuros Turuton Photos First St. TG300-264 - Temp Bridges - Preconstruction Photos First St.
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB48520	TG03	Fremont Street Bridge	Initial	BBII	6/25/2012	TG330-200 - Temp Bridges - Qualifications Data TG030-202 - Temp Bridges - Qualifications Data TG030-202 - Temp Bridges - Sere Review TG030-203 - Temp Bridges - Utility Supports TG030-203 - Temp Bridges - Utility Supports TG030-203 - Temp Bridges - Tells Plan - First, Fremon, Beale Streets TG030-203 - Temp Bridges - Tells Plan - First, Fremon, Beale Streets TG030-203 - Temp Bridges - Multi OCS Installation Plan First St. TG030-203 - Temp Bridges - Wolder AWS Cert. TG030-204 - Temp Bridges - Welder AWS Cert. TG0300-204 - Temp Bridges - Welder AWS Cert. TG0300-248 - Temp Bridges - Welder AWS Cert. TG0300-248 - Temp Bridges - Welder AWS Cert. TG0300-248 - Temp Bridges - Neuros Certificates or Coupon Tests TG0300-248 - Temp Bridges - Neuros Turution Photos First St. TG030-264 - Temp Bridges - Preconstruction Photos First St.
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB48420	TG03	Fremont Street Bridge	Prepararoty	BBII	4/18/2012	TG330-200 - Temp Bridges - Qualifications Data TG300-201 - Temp Bridges - Struct. Dwgs & Calc TG300-202 - Temp Bridges - Verlie Plan - First, Fremon, Beale Streets TG300-203 - Temp Bridges - Triffer Plan - First, Fremon, Beale Streets TG300-205 - Temp Bridges - Triffer Plan - First, Fremon, Beale Streets TG300-205 - Temp Bridges - Triffer Plan - First, Fremon, Beale Streets TG300-205 - Temp Bridges - Triffer Plan - First, Fremon, Beale Streets TG300-205 - Temp Bridges - Misc. Materials TG300-215 - Temp Bridges - Misc. Materials TG300-220 - MUN OCS Installation Plan First St. TG300-240 - Temp Bridges - Welder AWS Cert. TG300-240 - Temp Bridges - Welder AWS Cert. TG300-248 - Temp Bridges - Concrete Mix Designs TG300-248 - Temp Bridges - Concrete Mix Designs TG300-246 - Temp Bridges - Preconstruction Photos First St. TG300-246 - Temp Bridges - Preconstruction Photos First St. TG300-246 - Temp Bridges - Preconstruction Photos First St.
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB48520	TG03	Fremont Sreet Bridge	Initial	BBII	4/23/2012	TG330-200 - Temp Bridges - Qualifications Data TG300-202 - Temp Bridges - Struct. Dwgs & Calc TG300-202 - Temp Bridges - Struct Dwgs & Calc TG300-203 - Temp Bridges - Utility Supports TG300-203 - Temp Bridges - Utility Supports TG300-205 - Temp Bridges - Misc. How Temp Annual Streets TG300-205 - Temp Bridges - Tell Dan - First, Fremon, Beale Streets TG300-205 - Temp Bridges - Misc. Materials TG300-205 - Temp Bridges - Misc. Materials TG300-202 - Temp Bridges - Misc. Materials TG300-202 - Temp Bridges - Misc. Materials TG300-203 - Temp Bridges - Wold CS Installation Plan First St. TG300-204 - Temp Bridges - Wold CS Installation Plan First St. TG300-248 - Temp Bridges - Sun Cert. TG300-248 - Temp Bridges - Concrete Mix Designs TG300-248 - Temp Bridges - Concrete Mix Designs TG300-248 - Temp Bridges - Sen Cert. TG300-248 - Temp Bridges - Preconstruction Photos First St. TG300-246 - Temp Bridges - Preconstruction Photos Sen St. TG300-246 - Temp Bridges - Preconstruction Photos Sen St. TG300-246 - Temp Bridges - Preconstruction Photos Sen St.

30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB48620	TG03	Fremont Street Bridge Utilities	Preparatory	BBII	6/20/2012	TG0300.200 - Temp Bridges - Qualifications Data     TG0300.200 - Temp Bridges - Struct. Dwgs & Calc     TG0300.203 - Temp Bridges - Villify Supports     TG0300.203 - Temp Bridges - Utilify Supports     TG0300.203 - Temp Bridges -
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB48720	TG03	Fremont Street Bridge Utilities	Initial	ввіі	6/25/2012	TG0300.200 - Temp Bridges - Qualifications Data TG0300.200 - Temp Bridges - Struct. Dwgs & Calc TG0300.202 - Temp Bridges - Struct. Dwgs & Calc TG0300.203 - Temp Bridges - Peer Review TG0300.203 - Temp Bridges - Temp Bridges - Temp Briter, Fremont, Beale Streets TG0300.205 - Temp Bridges - Temp Bridges - Temp Bridges - Protocometry TG0300.205 - Temp Bridges - Misc. Materials TG0300.215 - Temp Bridges - Misc. Materials TG0300.220 - MUNI OCS Installation Plan First St. TG0300.240 - Temp Bridges - Welder AWS Cert. TG0300.240 - Temp Bridges - Welder AWS Cert. TG0300.240 - Temp Bridges - Concrete Mix Designs TG0300.250 - Temp Bridges - Read Manufacturer Certificates TG0300.250 - Temp Bridges - Read Manufacturer Certificates TG0300.250 - Temp Bridges - Read Manufacturer Certificates TG0300.264 - Temp Bridges - Preconstruction Photos First St. TG0300.264 - Temp Bridges - Preconstruction Photos First St.
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB48620	TG03	Fremont Street Bridge Utilities	Preparatory	BBII	4/18/2012	TG3300-200 - Temp Bridges - Qualifications Data TG3300-201 - Temp Bridges - Struct. Owgs & Calc TG3300-202 - Temp Bridges - Per Review TG3300-203 - Temp Bridges - Temp Bridges - Trist, Fremon, Beale Streets TG3300-205 - Temp Bridges - Trist, Fremont, Beale Streets TG3300-205 - Temp Bridges - Trist, Fremont, Beale Streets TG3300-215 - Temp Bridges - Misc. Materials TG3300-215 - Temp Bridges - Misc. Materials TG3300-220 - MUNI OCS Installation Plan First St. TG3300-240 - Temp Bridges - Weider AWS Cert. TG3300-240 - Temp Bridges - Weider AWS Cert. TG3300-240 - Temp Bridges - Oncrete Mits Designs TG3300-248 - Temp Bridges - Concrete Mits Designs TG3300-248 - Temp Bridges - Oncrete Mits Designs TG3300-248 - Temp Bridges - Preconstruction Photos First St. TG3300-246 - Temp Bridges - Preconstruction Photos First St. TG3300-246 - Temp Bridges - Preconstruction Photos First St.
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB48720	TG03	Fremont Street Bridge Utilities	Initial	BBII	4/23/2012	1GG300.200 - Temp Bridges - Qualifications Data 1GG300.200 - Temp Bridges - Struct. Dwgs & Calc 1GG300.203 - Temp Bridges - Struct. Dwgs & Calc 1GG300.203 - Temp Bridges - Temp Bridges - Trist, Ferronn, Beale Streets 1GG300.205 - Temp Bridges - Trist, Fremont, Beale Streets 1GG300.205 - Temp Bridges - Mick Plan - First, Fremont, Beale Streets 1GG300.205 - Temp Bridges - Mick. Materials 1GG300.215 - Temp Bridges - Mick. Materials 1GG300.215 - Temp Bridges - Wolk OS Installation Plan First St. 1GG300.240 - Temp Bridges - Wolker AWS Cert. 1GG300.240 - Temp Bridges - Oncrete Mik Designs 1GG300.248 - Temp Bridges - Concrete Mik Designs 1GG300.260 - Temp Bridges - Preconstruction Photos First St. 1GG300.260 - Temp Bridges - Preconstruction Photos Firemont St. 1GG300.264 - Temp Bridges - Preconstruction Photos Beale St.

30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB48220	TG03	Beale Street Bridge	Preparatory	BBII	7/2/2012	TG0300 200 - Temp Bridges - Qualifications Data TG0300 200 - Temp Bridges - Struct. Dwgs & Calc TG0300 202 - Temp Bridges - Struct. Dwgs & Calc TG0300 203 - Temp Bridges - Tist, Fremon, Beale Streets TG0300 205 - Temp Bridges - Tist, Fremont, Beale Streets TG0300 205 - Temp Bridges - Misc. Materials TG0300 215 - Temp Bridges - Misc. Materials TG0300 220 - MUNI OCS Installation Plan First St. TG0300 220 - MUNI OCS Installation Plan First St. TG0300 240 - Temp Bridges - Wider AWS Cert. TG0300 240 - Temp Bridges - Oncrete Mits Designs TG0300 248 - Temp Bridges - Concrete Mits Designs TG0300 248 - Temp Bridges - Oncrete Mits Designs TG0300 248 - Temp Bridges - Neconstruction Photos First St. TG0300 246 - Temp Bridges - Preconstruction Photos First St. TG0300 264 - Temp Bridges - Preconstruction Photos First St.
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB53500	TG03	Beale Street Bridge	Initial	BBII	7/6/2012	TG0300 200 - Temp Bridges - Qualifications Data TG0300 200 - Temp Bridges - Struct. Dwgs & Calc TG0300 203 - Temp Bridges - Struct. Dwgs & Calc TG0300 203 - Temp Bridges - Tiftir Plan - First, Fremont, Beale Streets TG0300 205 - Temp Bridges Geometrics - First, Fremont, Beale Streets TG0300 205 - Temp Bridges - Totic Plan - First, Fremont, Beale Streets TG0300 201 - Temp Bridges - Misc. Materials TG0300 201 - Temp Bridges - Misc. Materials TG0300 202 - MUNI OCS Installation Plan First St. TG0300 202 - MUNI OCS Installation Plan First St. TG0300 240 - Temp Bridges - Welder AWS Cert. TG0300 240 - Temp Bridges - Under AWS Cert. TG0300-248 - Temp Bridges - Concrete Mits Designs TG0300-248 - Temp Bridges - Concrete Mits Designs TG0300-248 - Temp Bridges - Neconstruction Photos First St. TG0300-264 - Temp Bridges - Preconstruction Photos First St. TG0300-264 - Temp Bridges - Preconstruction Photos First St.
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB48220	TG03	Beale Sreet Bridge	Preparatory	BBII	5/31/2012	TG0300-200 - Temp Bridges - Qualifications Data TG0300-201 - Temp Bridges - Struct. Dwgs & Calc TG0300-202 - Temp Bridges - Struct. Dwgs & Calc TG0300-203 - Temp Bridges - Temp Kriges - Krist, Fremont, Beale Streets TG0300-203 - Temp Bridges - Trist, Fremont, Beale Streets TG0300-215 - Temp Bridges - Mick Materials TG0300-215 - Temp Bridges - Mick Materials TG0300-215 - Temp Bridges - Mick Materials TG0300-215 - Temp Bridges - Wilder AWS Cert. TG0300-240 - Temp Bridges - Oncrete Mik Designs TG0300-240 - Temp Bridges - Concrete Mik Designs TG0300-248 - Temp Bridges - Oncrete Mik Designs TG0300-248 - Temp Bridges - Preconstruction Photos First St. TG0300-246 - Temp Bridges - Preconstruction Photos First St. TG0300-246 - Temp Bridges - Preconstruction Photos First St. TG0300-246 - Temp Bridges - Preconstruction Photos First St.
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB53500	TG03	Beale Street Bridge	Initial	BBII	6/5/2012	TG0300 200 - Temp Bridges - Qualifications Data TG0300 200 - Temp Bridges - Struct. Dwgs & Gaic TG0300 203 - Temp Bridges - Struct. Dwgs & Gaic TG0300 203 - Temp Bridges - Tuffic Plan - First, Fremon, Beale Streets TG0300 205 - Temp Bridges Geometrics - First, Fremont, Beale Streets TG0300 205 - Temp Bridges - Tuffic Plan - First, Fremont, Beale Streets TG0300 205 - Temp Bridges - Misc. Materials TG0300 215 - Temp Bridges - Misc. Materials TG0300 220 - MUNI OCS Installation Plan First St. TG0300 240 - Temp Bridges - Welder AWS Cert. TG0300 240 - Temp Bridges - Under AWS Cert. TG0300 248 - Temp Bridges - Concrete Mike Designs TG0300 248 - Temp Bridges - Concrete Mike Designs TG0300 248 - Temp Bridges - Oncrete Mike Designs TG0300 248 - Temp Bridges - Preconstruction Photos First St. TG0300 248 - Temp Bridges - Preconstruction Photos First St. TG0300 248 - Temp Bridges - Preconstruction Photos First St. TG0300 248 - Temp Bridges - Preconstruction Photos First St. TG0300 248 - Temp Bridges - Preconstruction St. TG0300 248 - Temp Bridges - Preconstruction St. TG0300 248 - Temp Bridges - Streenstruction St. TG0300 248 - Temp Bridges - Desconstruction Photos First St. TG0300 248 - Temp Bridges - Streenstruction St. TG0300 248 - Temp Bridges - Streenstruction St. TG0300 248 - Temp Bridges - Streenstruction Photos First St.

30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB53800	TG03	Beale Street Bridge Utilities	Preparatory	BBII	5/31/2012	TG330-200 - Temp Bridges - Qualifications Data TG3300-201 - Temp Bridges - Struct. Dwgs & Calc TG3300-202 - Temp Bridges - Struct. Dwgs & Calc TG3300-203 - Temp Bridges - Utility Supports TG330-203 - Temp Bridges - Telf. Plan - First, Fremon, Beale Streets TG330-203 - Temp Bridges - Telf. Plan - First, Fremon, Beale Streets TG330-203 - Temp Bridges - Telf. Plan - First, Fremon, Beale Streets TG330-203 - Temp Bridges - Telf. Data TG330-215 - Temp Bridges - Multicon Data TG330-225 - Temp Bridges - Multicon Data TG330-220 - MUNI OCS installation Plan First St. TG330-240 - Temp Bridges - Welder AWS Cert. TG330-248 - Temp Bridges - Welder AWS Cert. TG3300-248 - Temp Bridges - Welder AWS Cert. TG3300-248 - Temp Bridges - Struct Scrutificates TG330-248 - Temp Bridges - Read Manufacturer Certificates TG3300-248 - Temp Bridges - Read Manufacturer Certificates TG3300-248 - Temp Bridges - Preconstruction Photos First St. TG3300-246 - Temp Bridges - Preconstruction Photos First St.
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB53900	TG03	Beale Street Bridge Utilities	Initial	BBII	6/5/2012	TG330-200 - Temp Bridges - Qualifications Data TG330-201 - Temp Bridges - Struct. Dwgs & Calc TG330-202 - Temp Bridges - Struct. Dwgs & Calc TG330-202 - Temp Bridges - Utility Supports TG330-203 - Temp Bridges - Utility Supports TG330-205 - Temp Bridges - Mice Plan - First, Fremon, Beale Streets TG330-205 - Temp Bridges - Nether Plan - First, Fremon, Beale Streets TG330-205 - Temp Bridges - Nether Data TG330-215 - Temp Bridges - Mice Data TG330-225 - Temp Bridges - Mice Data TG330-220 - MUNI OCS installation Plan First St. TG330-240 - Temp Bridges - Welder AWS Cert. TG330-240 - Temp Bridges - Welder AWS Cert. TG330-248 - Temp Bridges - Welder AWS Cert. TG330-248 - Temp Bridges - Study Braunfacturer Certificates TG330-250 - Temp Bridges - Rebar Manufacturer Certificates TG330-264 - Temp Bridges - Preconstruction Photos First St. TG330-264 - Temp Bridges - Preconstruction Photos First St.
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB53800	TG03	Beale Street Bridge Utilities	Preparatory	BBII	7/2/2012	TG330-200 - Temp Bridges - Qualifications Data TG300-202 - Temp Bridges - Struct. Dwgs & Calc TG300-202 - Temp Bridges - Struct. Dwgs & Calc TG300-203 - Temp Bridges - Utility Supports TG300-203 - Temp Bridges - Utility Supports TG300-205 - Temp Bridges - Mile Plan - First, Fremon, Beale Streets TG300-205 - Temp Bridges - Mile Plan - First, Fremon, Beale Streets TG300-205 - Temp Bridges - Mile Vision TG300-205 - Temp Bridges - Mile Vision TG300-205 - Temp Bridges - Mile Vision TG300-205 - Temp Bridges - Mile Vision TG300-204 - Temp Bridges - Welder AWS Cert. TG300-204 - Temp Bridges - Welder AWS Cert. TG300-204 - Temp Bridges - Welder AWS Cert. TG300-204 - Temp Bridges - Struct Scrutificates TG300-205 - Temp Bridges - Rebar Manufacturer Certificates TG300-205 - Temp Bridges - Rebar Manufacturer Scrutificates TG300-205 - Temp Bridges - Proconstruction Photos Fired St. TG300-264 - Temp Bridges - Proconstruction Photos Seles St.
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB53900	TG03	Beale Street Bridge Utilities	Initial	BBII	7/6/2012	10300-200 - Temp Bridges - Qualifications Data 10300-201 - Temp Bridges - Struct. Dwgs & Calc 10300-202 - Temp Bridges - Struct. Dwgs & Calc 10300-203 - Temp Bridges - Struct. Dwgs & Calc 10300-203 - Temp Bridges - Utility Supports 10300-205 - Temp Bridges - Mile Plan - First, Fremon, Beale Streets 10300-205 - Temp Bridges - Mile Plan - First, Fremon, Beale Streets 10300-205 - Temp Bridges - Mile Vision 10300-215 - Temp Bridges - Mile Vision 10300-215 - Temp Bridges - Mile Vision 10300-215 - Temp Bridges - Mile Vision 10300-216 - Temp Bridges - Wolk OC Sinstallation Plan First St. 10300-240 - Temp Bridges - Welder AWS Cert. 10300-248 - Temp Bridges - Welder AWS Cert. 10300-248 - Temp Bridges - Sult Manufacturer Certificates 10300-248 - Temp Bridges - Concrete Mik Designs 10300-248 - Temp Bridges - Feconstruction Photos First St. 10300-246 - Temp Bridges - Preconstruction Photos First St. 10300-246 - Temp Bridges - Preconstruction Photos First St. 10300-246 - Temp Bridges - Preconstruction Photos Fired St. 10300-246 - Temp Bridges - Preconstruction Photos First St.
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	BG-BB12300	TG03	Test Micropiles	Preparatory	BBII	8/27/2012	
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	BG-BB42220	TG03	Test Micropiles	Initial	BBII	8/30/2012	
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	BG-BB42320	TG03	Production Micropiles	Preparatory	BBII	10/19/2012	
30.100.01	Buttress/Shoring/Excavation	BG-BB42420	TG03	Production Micropiles	Initial	BBII	10/24/2012	
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	BG-BB11100	TG03	FRP Concrete Mud Slab	Preparatory	BBII	11/20/2012	

30.100.01	Transit Center Building - Buttress/Shoring/Excavation	BG-BB42120	TG03	FRP Concrete Mud Slab	Initial	BBII	11/27/2012		
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	BG-BB11100	TG03	FRP Concrete Mud Slab	Preparatory	BBII	11/28/2012		TG0300-340 - Nebar Shop Dwgs - Mud Slab TG0300-350 - Mud Slab Concrete - Johnthal Schedule TG0300-350 - Mud Slab Concrete - Mix Design TG0300-380 - Mud Slab Concrete - Joint Locations TG0300-370 - Mud Slab Concrete - Hazardous Materials
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	BG-BB42120	TG03	FRP Concrete Mud Slab	Initial	BBII	12/3/2012		
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB17100	TG03	Remove Struts	Preparatory	BBII	6/12/2013		
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB17700	TG03	Remove Struts	Initial	BBII	6/17/2013		
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB17100	TG03	Remove Struts	Preparatory	BBII	6/11/2013		
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB17700	TG03	Remove Struts	Initial	BBII	6/14/2013		
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	BG-BB10600	TG03	Struct. Removal	Preparatory	BBII	6/12/2013		
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	BG-BB42520	TG03	Struct. Removal	Initial	BBII	6/17/2013		
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	BG-BB10600	TG03	Struct. Removal	Preparatory	BBII	6/13/2013		
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	BG-BB42520	TG03	Struct. Removal	Initial	BBII	6/18/2013		
30.100.03	Relocation Utilities Packages	UT-002610	TG04.1	Water Natoma & Fremont Street	Preparatory	M <sup>2</sup>	1/13/2011	1/13/2011	
30.100.03	Relocation Utilities Packages	UT-002810	TG04.1	Water Natoma & Fremont Street	Initial	M <sup>2</sup>	1/13/2011	1/13/2011	
30.100.03	Relocation Utilities Packages	UT-002910	TG04.1	Sewer Natoma & Fremont	Preparatory	M <sup>2</sup>	2/4/2011	2/4/2011	
30 100 03	Relocation Utilities Packages	LIT-003310	TG04 1	Sewer Natoma & Fremont	Initial	M <sup>2</sup>	2/4/2011	2/4/2011	
20 100 02	Polocation Utilities Packages	UT 212800	TG04 2	Tronch and Excavation	Broparatory	NA <sup>2</sup>	2/21/2012	2, 1, 2011	
30.100.03		UT-213800	TG04.2		Fieparatory	IVI	2/21/2012		
30.100.03	Relocation Utilities Packages	01-214500	1G04.2	Trench and Excavation	Initial	M	2/24/2012		TCAID2 020 Developing Dire
30.100.03	Relocation Utilities Packages	UT-213800	TG04.2	Trench and Excavation	Preparatory	M2	3/19/2012	3/26/2012	1G002-2020-Dewatering man TG0434-224-Proposed Method of Ptholing TG0434-002-Prope Bedding (Crushed Rock)-Sample TG0434-003-Prope Bedding (Crushed Rock)-Test Reports TG0434-005-Shoring Plan by Licensed CA Engineer
30.100.03	Relocation Utilities Packages	UT-214500	TG04.2	Trench and Excavation	Initial	M2	3/22/2012		
30.100.03	Relocation Utilities Packages	UT-208100	TG04.2	CIP Concrete	Preparatory	M <sup>2</sup>	2/21/2012		
30.100.03	<b>Relocation Utilities Packages</b>	UT-208200	TG04.2	CIP Concrete	Initial	M <sup>2</sup>	3/5/2012		
30.100.03	Relocation Utilities Packages	UT-208100	TG04.2	CIP Concrete	Preparatory	M2	3/19/2012		
30.100.03	<b>Relocation Utilities Packages</b>	UT-208200	TG04.2	CIP Concrete	Initial	M2	3/30/2012		
30.100.03	Relocation Utilities Packages	UT-208000	TG04.2	Pipe Stop Welding	Preparatory	M <sup>2</sup>	2/21/2012	3/26/2012	TG0402-013-Welder Certification TG0402-008-Sample 8" pipe w/welded stops
30.100.03	Relocation Utilities Packages	UT-214600	TG04.2	Pipe Stop Welding	Initial	M <sup>2</sup>	3/8/2012		
30.100.03	Relocation Utilities Packages	UT-208000	TG04.2	Pipe Stop Welding	Preparatory	M2	3/19/2012		
30.100.03	Relocation Utilities Packages	UT-214600	TG04.2	Pipe Stop Welding	Initial	M2	4/4/2012		
30.100.03	<b>Relocation Utilities Packages</b>	UT-208300	TG04.2	Pipe Installation	Preparatory	M <sup>2</sup>	2/21/2012	3/26/2012	
30.100.03	Relocation Utilities Packages	UT-208400	TG04.2	Pipe Installation	Initial	M <sup>2</sup>	3/8/2012		
30.100.03	Relocation Utilities Packages	UT-208300	TG04.2	Pipe Installation	Preparatory	M2	3/19/2012		
30.100.03	<b>Relocation Utilities Packages</b>	UT-208400	TG04.2	Pipe Installation	Initial	M2	4/4/2012		
30.100.03	Relocation Utilities Packages	UT-208500	TG04.2	Testing and Comissioning	Preparatory	M <sup>2</sup>	6/13/2012		
30.100.03	Relocation Utilities Packages	UT-208600	TG04.2	Testing and Comissioning	Initial	M <sup>2</sup>	6/14/2012		
30.100.03	<b>Relocation Utilities Packages</b>	UT-208500	TG04.2	Testing and Comissioning	Preparatory	M2	7/11/2012		
30.100.03	Relocation Utilities Packages	UT-208600	TG04.2	Testing and Comissioning	Initial	M2	7/12/2012		
30.100.03	Relocation Utilities Packages	UT-030500	TG04.3	Water Howard and Beale Streets	Preparatory	M <sup>2</sup>	1/13/2011	1/13/2011	
30.100.03	<b>Relocation Utilities Packages</b>	UT-030600	TG04.3	Water Howard and Beale Streets	Initial	M <sup>2</sup>	1/13/2011	1/13/2011	

30.100.03	Relocation Utilities Packages	UT-041400	TG04.4	Water on Natoma, First Streets	Preparatory	M <sup>2</sup>	1/13/2011	1/13/2011	
30.100.03	Relocation Utilities Packages	UT-041500	TG04.4	Water on Natoma, First Streets	Initial	M <sup>2</sup>	1/13/2011	1/13/2011	
30.100.03	Relocation Utilities Packages	UT-041000	TG04.4	Sewer on Natoma	Preparatory	M <sup>2</sup>	2/4/2011	2/4/2011	
30.100.03	Relocation Utilities Packages	UT-041100	TG04.4	Sewer on Natoma	Initial	M <sup>2</sup>	2/4/2011	2/4/2011	
30.100.03	Relocation Utilities Packages	UT-203700	TG04.4	AWSS Cap	Preparatory	M <sup>2</sup>	3/3/2011	3/3/2011	
30.100.03	Relocation Utilities Packages	UT-203800	TG04.4	AWSS Cap	Initial	M <sup>2</sup>	3/3/2011	3/3/2011	
30.100.03	Relocation Utilities Packages	UT-002830	TG04.6	Sewer/Sludge	Preparatory	M <sup>2</sup>	3/23/2012		
30.100.03	Relocation Utilities Packages	UT-002930	TG04.6	Sewer/Sludge	Initial	M <sup>2</sup>	3/28/2012		
30.100.03	Relocation Utilities Packages	UT-002830	TG04.6	Sewer/Sludge	Preparatory	M2	5/2/2012		
30.100.03	Relocation Utilities Packages	UT-001220	TG04.5.1	Sewer Minna Street	Preparatory	Trinet	1/13/2011	1/13/2011	
30.100.03	Relocation Utilities Packages	UT-002820	TG04.5.1	Sewer Minna Street	Initial	Trinet	1/13/2011	1/13/2011	
30.100.03	Relocation Utilities Packages	UT-001399	TG04.5.1	Joint Trench Minna Street	Preparatory	Trinet	2/3/2011	2/3/2011	
30.100.03	Relocation Utilities Packages	UT-001499	TG04.5.1	Joint Trench Minna Street	Initial	Trinet	2/3/2011	2/3/2011	
30.100.03	Relocation Utilities Packages	UT-002930	TG04.6	Sewer/Sludge	Initial		5/7/2012		
30.100.01	Transit Center Building - 301 Mission Wall	MW-101400	TG19.1	301 Mission Wall Relocation	Preparatory	Transworld	2/7/2011	2/7/2011	
30.100.01	Transit Center Building - 301 Mission Wall	MW-101300	TG19.1	301 Mission Wall Relocation	Initial	Transworld	2/7/2011	2/7/2011	
30.100.01	Transit Center Building - 301 Mission Wall	MW-101100	TG19.1	301 Mission Wall Waterproofing	Preparatory	Transworld	6/16/2011	6/16/2011	
30.100.01	Transit Center Building - 301 Mission Wall	MW-101200	TG19.1	301 Mission Wall Waterproofing	Initial	Transworld	6/16/2011	6/16/2011	
30.100.05	Bus Ramps	BR-000300	TBD	Bus Ramps	Preparatory	TBD	1/29/2014		
30.100.05	Bus Ramps	BR-000400	TBD	Bus Ramps	Initial	TBD	2/3/2014		
30.100.05	Bus Ramps								





## **10. TRAINING**

#### TRAINING

Webcor/Obayashi JV will ensure that only knowledgeable capable employees carry out the planning and execution of the work.

- Trade Subcontractor CQC Managers will provide training on the elements of the Webcor/Obayashi JV and Trade Subcontractors site specific Contractor's Quality Control Plans to all trade subcontractor staff having CQC responsibilities.
- When specified in the Contract Documents, Trade Subcontractor CQC Managers will submit proof of tradespersons qualifications including licensing requirements, certifications or other required training qualifications for the specified task to Webcor /Obayashi JV and the TJPA.
- When specified in the Contract Documents, project or task specific training will be documented by the Trade Subcontractor. The Trade Subcontractor will provide Webcor/Obayashi JV with a copy of the training syllabus and list of attendees.
- Webcor/Obayashi JV Quality Control personnel will complete the U.S. Army Corps of Engineers/U.S. Navy Facilities Engineering Command, Construction Quality Management for Contractors (or equivalent).





## **11. DESIGN CONTROL**

#### DESIGN CONTROL

Design control by Webcor/Obayashi is accomplished by the daily maintenance of an accurate set of As-Built drawings by the Trade-Subcontractors per specification section 01 17 20 "Project As-Built Drawings" Summarized here as follows:

- The Trade Subcontractors shall keep an accurately marked, up-to-date set of as-built drawings for the work actually installed, and accurately indicate on as-built drawings all site conditions, locations of utilities, work scope changes, changes in dimensions, locations, and elevations of the Work, and changes in details as specified herein and as approved by the TJPA Representative. Trade Subcontractor shall keep the as-built drawings current as the Work is performed.
- Prior to acceptance of the Work, Trade Subcontractor shall furnish to the Webcor/Obayashi JV CQC Manager the final as-built drawings, showing all changes in the Contract Drawings neatly in red ink.
- Trade Subcontractors will delegate responsibility for maintenance, coordination, and accuracy of the as-built drawings to one person on their staff.
- Accuracy of as-built drawings shall be such that future searches for items shown on the Contract Documents may rely on information obtained from the approved as-built drawings.
- Trade Subcontractors shall store as-built drawings apart from documents used for performing the work; keep in a dry, legible condition, and in good order. Label each document "AS-BUILT DRAWINGS— JOB SET" in large, neatly printed letters.
- Trade Subcontractors shall record neatly on the as-built drawings all changes made by clarifications, Change Orders, Requests for Information, and other Modifications to the Contract Documents; and changes to reflect the actual existing conditions and utility locations references to permanent accessible features of the Work.
- Trade Subcontractors shall clearly describe changes on as-built drawings by note as required.
- Trade Subcontractors shall date all entries, calling attention to the entry by a "cloud" drawn around the area or areas affected.
- Trade Subcontractors shall record in each Specification Section the manufacturer, trade name, catalog number, and supplier of each product and equipment item incorporated into the Work.
- Trade Subcontractors shall furnish a copy of the final shop drawings which have been updated to show actual conditions. Furnish additional drawings as necessary to record deviations from the sizes, locations, and other features of the Work and to locate piping, conduit, ductwork, and similar elements of utility installations by dimensions referenced to permanent accessible features of the Work.
- Trade Subcontractors shall show on the job set of as-built drawings, by dimension accurate to within 1 inch, the centerline of each run of conduits, circuits, piping, ducts, and similar items which are shown schematically on the Contract Drawings but where the final physical arrangement is determined by Trade Subcontractor.

- Trade Subcontractors shall keep as-built drawings up to date during the entire progress of the Work, and provide access for monthly. Updates shall be accurate and current and be done at the time work is performed.
- Trade Subcontractors shall also update and include the revised or newly issued drawings as part of the as built drawings. The work of reproducing and issuing Change Order drawings and updating of as built drawings shall be done as incidental work.





## **12 FORMS**

#### OVERVIEW

The forms in this section are approved for use in Webcor/Obayashi's CQC program.

### Forms

- Submittals Checklist Used for each submittal to ensure completeness of documents before distribution and transmission to TJPA.
- Daily CQC Report Completed daily by Webcor/Obayashi and/or Trade Subcontractors CQC Management. Report is signed and dated by Webcor/Obayashi CQC Manager and submitted within 5 working days to TJPA Representative via Constructware.
- Non-Conformance Report Completed as necessary to report and track non-conforming work. Webcor/Obayashi JV tracks this report in CMiC and submits to TJPA Representative via Constructware.
- Preparatory Phase Checklist- Used by the Trade Subcontractors to plan and conduct Preparatory Phase Meetings
- Initial Phase Checklist- Used by the Trade Subcontractors to plan and conduct Initial Phase Meetings



## SUBMITTAL PROCESS CHECKLIST

Submittal Package No.:	Date Received:
Submittal Name:	

- **D** Review each submittal to:
  - O Verify that the submittal's contents match the accompanying transmittal. Did we receive everything listed on the transmittal?
  - O Verify that the submittal's contents are complete per the submittal register. Important: submittal packages need to be complete and should include <u>all</u> information necessary for review. Partial submittals are to be rejected by W/O (if we don't the TJPA will).
  - O Verify that the contents of the submittal are in conformance with the technical specifications and other appropriate contract documents.
  - O Is the Submittal a Substitution?
    - □ No- Continue Processing Submittal
    - □ Yes -Reject submittals that are substitution requests- There is a separate process for substitutions.
  - O Verify that the trade subcontractor has checked and coordinated all dimensions, materials, field measurements, with the requirements of the Work and the Contract Documents.
  - O Verify that the submittal complies with the requirements of reference specifications –SFDPW, PG&E etc.
  - O Confirm that all professional certifications (stamp) w/license number and expiration date are provided and signed if required.
  - O Note any variations from the Contract requirements (if there are create an issue in CMiC)
  - O Address all questions raised or noted in the submittals; requests to verify dimensions, etc. If there are questions with the submittal:
    - Can the questions be answered by W/O?
    - Does an RFI need to be submitted?
    - Does an issue need to be created in CMiC?
    - o Identify who is responsible for answering the question
  - O Identify all affected and adjacent trades that can be potentially impacted by submittal. Develop an action plan to coordinate submittal information with ALL affected and adjacent trades.
  - O If the submittal is complete, stamp the first page of each item. If it is shop drawings, all sheets must be stamped.

Trade Scope Superintendent:	Date:
Trade Scope PM:	Date
CQC Manager:	Date:
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CONTRACTOR QUALITY CONTROL REPORT									
PHASE	CONTRACT NO	CONTRACT TITLE							
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	IF YES, FILL OUT Schedule	AND ATTACH SUPPLEMENTAL PREPARATOR	Y PHASE CHECKLIST.						
	Activity No.								
	WAS INITIAL PHA	NITIAL PHASE WORK PREFORMED TODAY? YES NO							
IAL	Schedule	AND ATTACH SUPPLEMENTAL INITIAL PHASE	CHECKLIST.						
INI	Activity No.								
	WORK COMPLIE	DRK COMPLIES WITH CONTRACT AS APPROVED DURING INITIAL PHASE? YES NO							
	Schedule Activity No.	ichedule Description of Work, Testing Performed & By Whom, Definable Feature of Work, Specification Section, Location and List of Personnel Present,							
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REMARKS (Also Explain Any Follow-Up Phase Checklist Item From Above That Was Answered "NO") Manuf, Rep On-Site, etc.									
Sched Activity	No.	n							
equipment and material used and work performed during this report is complete and context and compliance with the contract drawines and specifications to the best of my knowledge									
except as noted in this report. WEBCOR QC REPRESENTATIVE DATE									
WEBCOR/OBAYASHI QUALITY CONTROL MANAGERS REMARKS AND/OR EXCEPTIONS TO THE REPORT									
Schedule Description									
WEBCOR/OBAYASHI JV CQC MANAGER: Bob Garcia DATE									

# CONTRACTOR QUALITY CONTROL REPORT (CONTINUATION SHEET) (ATTACH ADDITIONAL SHEETS IF NECESSARY)



PHASE	CONTRACT NO	TG03/TG0 4.2	CONTRACT TITLE	Buttress Shoring and Excavation / AWSS				
	WORK COMPLIE	S WITH CONTRACT AS APPROVED DURING IN	ITIAL PHASE?	YES NO				
	Schedule Activity No.	Section, Location and List of Personnel Present	nom, Definable Feature of Work, S	pecification				
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REMARKS	6 (Also Explain Any	Checklist Item From Above That Was Answered	NO"), Manuf. Rep. On-Site, etc.					
Schedule Activity No								
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#### Transbay Transit Center Program

W/O #	Contact CMO QA Manag	ger for assigned Number NCR #
Contract No.	Contractor/Si	ub(s)
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Reference #s		
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Descript	ion of Non-Conforma	ance
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		See QMS QA-08-3
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Resolve as Follows:		
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Field Engineer	or of Record Disposit	Date
Repair Accept-As-Is		
Fix but not to specifications Resolve as Follows:		
Engineer of Decord		Data
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CMO/DMDC Increastor/DE		Data
CMO/FMFC Inspector/RE	ion (CA) to prevent r	
Verified/Inspection of CA		Date

#### ASSEMBLY

- 001 Interference/Improper Fit
- 002 Dis-bonding/Adhesive Defect
- 003 Incorrect Part Used
- 004 Assembly Error
- 005 Soldering Failure
- 006
- 007
- 008
- 009
- 010 Other Assembly Related Defect

#### **CERTIFICATION / DOCUMENTATION**

- 011 Information Missing
- 012 Information Incorrect
- 013 Information Illegible
- 014 Material Incorrect
- 015 Inspection/Test Incorrect
- 016 Data Out-Of-Spec.
- 017
- 018
- 019
- 020 Other Cert./Documentation Error

#### DIMENSIONAL

- 021 Thickness-Over/Under Size
- 022 Diameter Over/Under Size
- 023 Length/Width-Over/Under Size
- 024 Depth Incorrect
- 025 Slope Incorrect
- 026 Angle Incorrect
- 027 Feature/Item Missing
- 028 Position/Location Incorrect
- 029 Radius Over/Under Size or Missing
- 030 Other Dimensional Defect

#### INSTALLATION

- 031 Missing Hardware
- 032 Missing Equipment
- 033 Non-Standard Installation
- 034 Incomplete Installation
- 035 Non-Conforming Materials Used
- 036 Equipment Damaged
- 037 Incorrect Location
- 038 Incorrect Orientation
- 039
- 040 Other Installation Defect

#### **INSTALLATION / TEST FAILURE**

- 041 Inspection/Test Equipment Failure
- 042 Equipment Not Calibrated
- 043 Procedural

QA 08-3, 120321

- 044 Under-Test Condition
- 045 Electrical Test Failure
- 046 Leak Test Failure
- 047 Environmental Test Failure
- 048 Functional Test Failure
- 049 Mechanical Test Failure
- 050 Other Inspection/Test Failure

#### **MATERIAL / SOILS**

- 051 Incorrect Material Used
- 052 Material Contaminated
- 053 Gradation Test Failure
- 054 Moisture Test Failure
- 055 Density (Compaction) Test
- 056 Sand Equivalent Test Failure
- 057 Organic Content of Soils
- 058 Durability Index
- 059 Resistance (R-value)
- 060 Other Material Defect

#### MATERIALS / CONCRETE & STEEL

- 061 Incorrect Materials Used
- 062 Concrete Slump Test Failure
- 063 Concrete Air Content
- 064 Concrete Compressive Strength Test Failure
- 065 Drying Shrinkage of Concrete
- 066 Concrete Honeycombing
- 067 Concrete Rock-Pocket/Voids
- 068 Mis-fabricated Reinforcing Steel Assemblies
- 069 Missing or Incorrect Reinforcing Steel
- 070 Other Material Defects

#### NON-DESTRUCTIVE EXAMINATION (NDE)

- 071 Cracked Welds
- 072 Foreign Material
- 073 Component Gap/Fit-up Defect
- 074 Undercut
- 075 Porosity/Slag
- 076 Lack of Penetration/Fusion
- 077 Discontinuities
- 078 Voids
- 079 Delimination
- 080 Other NDE Indications

#### SURFACE DEFECTS

- 081 Discoloration
- 082 Blisters
- 083 Sparing
- 084 Burrs/Chips/Nicks
- 085 Damaged/Bent/Torn/Twisted
- 086 Contaminated
- 087 Foreign Material
- 088 Plating/Coating Defects
- 089 Cracks

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090 Surface Irregular/Finish

**VISUAL & OTHER DEFICIENCIES** 

Other Visual Anomaly

	PREF	PARATORY	PHASE CHE	CKLIST		SPEC SECTION		DATE	
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	HAS TEST FACILITIES BEEN APPROVED?		
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	REVIEW APPLICABLE PORTION OF EM 385-1-1.		
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INITIAL PHASE CHECKLIST					DATE	
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		QC MANAGER			DATE	

<u>Exhibit K</u>

### **Construction Stormwater Pollution Control/Compliance Plan**

Transbay Transit Center Project San Francisco, California



Prepared for: Webcor /Obayashi 6h I Wd he 934 IIO COLLECTION SYSTEM DIVISION **BSIRGRATUB RETAWETSAW** DADWARD AS NELL



February 2011

**Transbay Transit Center** San Francisco, California

### **Construction Stormwater Pollution Control/Compliance Plan**

Submitted to: Webcor /Obayashi

This report has been prepared by or under the supervision of the following Qualified Storm Water Pollution Prevention Developer and Construction General Permit Trainer of Record.

Debox Carry Debra Carey, QSD, ToR, CEG

Feb 27, 2011 Date

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Appendix B	Construction	Stormwater	Controls	Monitoring	Checklist
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Appendix C SFPUC Construction Pollution Prevention Guide

# **1 REGULATORY SETTING**

The Transbay Transit Center Project (Project) meets federal Clean Water Act (CWA) and State Porter – Cologne Water Quality Control requirements via connection to the combined wastewater and stormwater sewer system operated by the San Francisco Public Utilities Commission (SFPUC) under a State Water Resources Control Board-issued National Pollutant Discharge Elimination System (NPDES) permit (Order No. R2-2002-0073, NPDES Permit No CA0037664). The Project is therefore not subject to coverage under the California Construction General Stormwater Permit (Order 2009-0009-DWG), that became effective on July 1, 2010; however, the construction site must implement Best Management Practices (BMPs) to prevent pollutant discharge into the combined sewer to comply with the San Francisco municipal ordinances and codes described below. This Construction Stormwater Pollution Control/Compliance Plan provides a delegation strategy along with best management practice (BMP) categories for compliance with stormwater regulations covering construction activities at the Project.

#### San Francisco Ordinance

San Francisco has a Stormwater Discharge Controls Ordinance requiring Pollution Prevention Procedures during any construction conducted in the City of San Francisco. In general the ordinance discusses long term BMPs such as rain gardens and green roofs particularly applicable to redevelopment areas and sections of the City serviced by small municipal separate storm sewer systems (MS4); however aspects of the ordinance apply to construction activities. For example, although coverage under the NPDES General Construction Permit (Water Board Order No. 99-08-DWQ) is not required for projects in those areas of the city that drain to the combined sewer system; all construction sites must implement BMPs to prevent illicit discharge into the combined sewer. Generally, City requirements include the development of a Storm Water Pollution Prevention Plan (SWPPP), SWPPP plan review by SFPUC, stormwater treatment measures, runoff monitoring, and frequent site inspections. The regulations also require the use of construction period (and operational period) BMPs on construction sites to keep pollutants (sediment and construction site debris), out of water conveyance systems, the treatment plants, and discharge points.

#### San Francisco Public Works Code

The federal CWA requires that publicly-owned treatment works (POTW) regulate the discharge of industrial wastes into a sewer system subject to NPDES permit requirements, and since construction activity is regulated under the industrial category, San Francisco's department of public works (DPW) has adopted requirements for construction discharges to the combined sewer system. Under DPW regulations, discharges of construction storm water as well as any wastewater (such as dewatering from construction sites) is subject to the requirements of Article 4.1 of the San Francisco Public Works Code, which regulates the quantity and quality of discharges to the combined sewer system. Projects that conduct any dewatering activity are required to apply for a Wastewater Batch Discharge Permit from the SF PUC WWE\_CSD. Information on the Batch Discharge Permit and pre-treatment can be found online at: http://sfwater.org/msc\_main.cfm/MC\_ID/14/MSC\_ID/445.

Order No. 158170 of the San Francisco DPW provides additional pre-treatment industrial waste discharge limits to augment those listed in Article 4.1. The San Francisco Municipal Code requires contractors to have a Sediment and Erosion Control Plan for projects that discharge to the Combined Sewer System.

#### **RESPONSIBLE PARTIES**

The legally Responsible Party for the Project is the Transbay Joint Powers Authority (TJPA). The TJPA consists of a collaboration of Bay Area government and transportation agencies, and is managed by TJPA staff and overseen by a Board of Directors. For site-specific concerns that can be addressed by TJPA, please call **415.409.TJPA** (**8572**).

Webcor /Obayashi is a joint venture contracting group hired by TJPA as general contractor for the Transbay Terminal Center Phase of the Project. Webcor /Obayashi will be subcontracting construction to Trade Subcontractors who will be responsible for preparing SWPPPs specific to their construction activity, schedule, discharge points, types of pollutants and construction boundaries. The Trade Subcontractors will be responsible for preparing and submitting for approval a SWPPP including furnishing, installing, maintaining and removing BMPs such as silt fence, filter boxes, construction entrances, sediment traps, dust control, dewatering and other erosion and sediment control measures during construction to prevent contamination of storm water from construction activities and to maintain compliance with the SF storm water ordinance and codes. For site-specific NPDES concerns that can be addressed by Webcor/Obayashi, please call **415.978.5726**.

# **2 PROJECT INFORMATION**

# 2.2 Project Description

The Project is located generally between Second Street in the west, Beale Street in the east, Natoma Street in the south and Minna Street in the north (Figure 1). The Project is part of a larger \$4 billion transportation and housing expansion/redevelopment effort that will replace an old Transbay Terminal at First and Mission streets with a modern regional transit hub connecting eight Bay Area counties and the State of California through 11 transit systems: AC Transit, BART, Caltrain, Golden Gate Transit, Greyhound, Muni, SamTrans, WestCAT Lynx, Amtrak, Paratransit and future High Speed Rail from San Francisco to Los Angeles/Anaheim.

The entire Project consists of three broad activities as noted below. Webcor /Obayashi are the general contractors and have prepared this Construction Stormwater Pollution Control/Compliance Plan to provide for compliance with stormwater regulations covering construction activities.

- Utility Relocation
- Train Box and Transit Center Building Construction
- Bus Ramp Construction



Figure 1. Project Location Map

February 2011

## 2.3 Project Size and Total Disturbed Area

The estimated total disturbed soil area (DSA) for the Project is approximately 12.3 acres and includes the areas where the soil might be potentially disturbed by construction activities, as follows:

Table 1. Total Lana Dis	tui bunce
Area Name	Approximate Area Disturbed (Acres)
Zone 1	2
Zone 2	1.8
Zone 3	1.5
Zone 4	4
Linear Utility	2.5
Relocation	2.5
Additional	3
Staging/Disturbance	5
Total	12.3

Table 1. Total Land Disturbance

Figures 2 and 3 show general locations for the DSA construction zones and linear utility relocation trade packages. Several staging areas are anticipated during the life of the Project as shown in Figure 4.



**Figure 2. Construction Zone Locations** 



Figure 3. Utilities DSA Map



#### Figure 4. Staging DSA Map

## 2.4 Receiving Waters and Environmentally Sensitive Areas

The Project is located within the northeastern section of the City of San Francisco. The Project does not discharge directly to jurisdictional "receiving water." The San Francisco combined sanitary/storm water sewer system collects all storm and waste water discharging in the Project vicinity and pipes the water to the Southeast Water Pollution Control Plant for processing and discharging under NPDES Permit No CA0037664. The SE plant currently treats runoff to secondary treatment standards established by the USEPA, meeting or exceeding water quality objectives in San Francisco Bay.

The San Francisco Bay Area has a climate characterized by wet winters and dry summers. Average annual rainfall in the area is approximately 20 inches. The majority of this rainfall generally occurs from November through April with little rainfall during the remaining months of the year. Construction for the Project will span a period of several years including both wet and dry seasons. The project does not impact any known environmentally or culturally sensitive areas. For information regarding any environmentally sensitive habitat concerns, please refer to the Biological Resource Assessment. For information on cultural or other CEQA or NEPA requirements, please refer to the appropriate State or Federal Agency.

### 2.5 Construction Activities and Schedule

The Project activities include but are not limited to clearing, excavation and backfill, construction and finishing work within a busy city environment with established infrastructure. Several staging areas are anticipated during the life of the Project. Construction equipment and materials will be stored both onsite and at staging areas. As a result, fueling and maintenance, as well as welding and fabrication, may take place onsite. A discussion of the pollutants with potential to contact storm water as a result of these activities is included below. Since demolition of the existing ramps and terminal is currently underway by another contractor (Evans Bros Inc), the first phase of the Webcor-Obayashi Project includes utility relocation, followed by subexcavation in preparation for construction of the Transit Center Building/Train Box. Construction overseen by Webcor-Obayashi will create a new five-story Transit Center with one above-grade bus level, ground-floor, concourse, and two below-grade rail levels serving Caltrain and future California High Speed Rail, and includes new bus ramps to connect the Transit Center to a new off-site bus storage facility and the SF-Oakland Bay Bridge. Construction of the Project should be completed within or near the year 2017.

The following list generally outlines the expected Project construction schedule:

- 1. Utility relocation November 2010-September 2011.
- 2. Protection of perimeter: March 2011.
- 3. Trade Subcontractors awarded contracts: April 2011.
- 4. Activity specific SWPPPs submitted by Trade Subcontractors: April 2011.
- 5. Sediment control products ordered and stored on site by Trade Subcontractors: May 2011.
- 6. Stabilized construction entrance, equipment parking, covered storage and any concrete wash areas constructed by Trade Subcontractors: May 2011.
- 7. Excavation and Dewatering by Trade Subcontractors: May 2011-April 2014.

- 8. Transit Center Building Construction: May 2013-August 2017.
- 9. Bus Ramps: 4th quarter 2012-4th quarter 2014.
- 10. Construction of the concrete form box and train box by Trade Subcontractors: TBD.
- 11. Vertical Construction by Trade Subcontractors: 2013-2017.
- 12. Monitoring and Maintenance of BMPs: Entire construction timeline by Trade Subcontractors.
- 13. All BMPs functional: Entire construction timeline.

### 2.6 Potential Construction Site Pollutant Sources

Potential materials expected from the project include, but are not limited to, excavated soil, oil products (gasoline, diesel, hydraulic oil, and kerosene), solvents, concrete and curing compounds, and other construction materials. Construction on the project site will require temporary disturbance of surface soils and removal of existing on-site pavements and subsurface structures. During the construction period, excavation and grading activities will result in exposure of soil to water runoff, and the use of haul trucks that could track material away from the construction site. Much of the excavated material will be typical of coarser sandy soil particles that do not mobilize easily. However, some of the material may consist of relatively mobile fine sediments (silt and clay). Most excavation will occur in a below-grade pit which will drain internally and contain storm water; however construction activities will impact areas outside of the excavation areas that drain toward the San Francisco combined sewer drain inlets. Water in excavation pits from rainfall and groundwater seepage would contain sediment. Removal of the pit water will probably require sediment removal before it can be discharged into the storm drains (see SF PW Code paragraph above).

Soil and debris on the haul truck tires exiting the site could be deposited on local streets and Transport in storm water into the storm drain. The majority of construction debris and materials would be loaded onto trucks within the interior of the construction boundaries, rather than from public sidewalks or streets bordering the project site. The construction debris and materials would then be hauled off site. Therefore, soil stockpiles would be minimized on site.

In addition to sediment, Table 2 lists expected construction materials that could generate pollutants, describes their chemical and physical properties, and identifies potential pollutants associated with them. This list should be updated as the project proceeds and additional phases begin.

Source	Chemical/Physical	Storm Water Pollutants*
	Description	
Diesel Fuel	Clear, blue-green to yellow liquid	TPH-diesel, benzene, toluene, ethylbenzene, xylenes, naphthalene
Concrete Work	Cement, fly ash, aggregate	pH
Oil and Grease	Brown oily petroleum	TPH-motor oil, oil and grease
Used Oil (oil only)	Brown oily petroleum	TPH-motor oil, oil and grease, LUFT 5 metals (cadmium, chromium, lead, nickel, and zinc)
Excavated and Stockpiled Soil	Solid particles	Soil, sediment
Gasoline	Colorless, pale brown or pink petroleum hydrocarbon	TPH-gasoline, benzene, toluene, ethylbenzene, xylenes. For "old" releases, include DIPE; ETBE; MTBE; TAME; TBA; 1,2-dibromoethane (1,2-DBA); and 1,2-dichloroethane (1,2-DCA)
Hydraulic Oil/Fluids	Brown oily petroleum hydrocarbon	TPH-hydraulic oil, benzene, toluene, ethylbenzene, xylenes, LUFT 5 metals (cadmium, chromium, lead, nickel, and zinc)
Sanitary/Septic Waste	Sewage products	Coliform, <i>E. coli</i> , viruses, solvents (i.e. volatile organic compounds such as trihalomethanes and the dichlorobenzene isomers), nitrate
Trash; Windblown and Other	Paper, pipe, electrical wires etc.	Paper, pipe, electrical wires etc.

#### **Table 2. Potential Stormwater Pollutants**

Notes: \*<u>TPH</u>-gasoline = total petroleum

hydrocarbons quantified as gasoline (the same pattern

for TPH-diesel, TPH-motor oil, TPH-hydraulic oil)

<u>BTEX</u> = benzene, toluene, ethylbenzene, and xylenes

 $\underline{\text{DIPE}} = \text{di-isopropyl ether}$ 

 $\underline{\text{ETBE}} = \text{ethyl tertiary butyl ether}$ 

 $\underline{\text{MTBE}}$  = methyl tertiary butyl ether

 $\underline{\text{TAME}}$  = tertiary amyl methyl ether

 $\underline{\text{TBA}} = \text{tertiary butyl alcohol}$ 

 $\underline{LUFT}$  = leaking underground fuel tank

<u>PCBs</u> = polychlorinated biphenyls

Pollutants of concern in the San Francisco Bay include, but are not limited to, mercury, diazinon and Polychlorinated Biphenyls (PCBs). These chemicals are not easily broken down and they tend to adhere to particles of sediment, so can be removed from stormwater in BMPs that trap sediment. For this reason, sediment trapping BMPs are highlighted in the treatment controls listed for the project. Additional pollutant categories that can be anticipated in stormwater leaving the project include oil and grease, trash, sediment, organic compounds, pesticides, nutrients and metals.

### 2.7 Identification of Non-Storm Water Discharges

Non-storm water discharges include a wide variety of sources and may contribute pollutant loads if not controlled. They can include, but are not limited to:

- discharges of process water
- saw cutting slurry
- air conditioner condensate
- non-contact cooling water
- vehicle wash water
- sanitary wastes concrete washout water
- paint wash water
- irrigation water
- pipe testing water
- natural groundwater seepage

Measures to control spills, leakage, and dumping, and to prevent illicit connections during construction must be addressed through structural as well as non-structural BMPs. Certain non-storm water discharges may be necessary for the completion of construction projects. Authorized non-storm water discharges may include those from de-chlorinated potable water sources such as: fire hydrant flushing, irrigation of vegetative erosion control measures, pipe flushing and testing, water to control dust, uncontaminated ground water dewatering, and other discharges not subject to a separate general NPDES permit adopted by a region. Authorized non-storm water dewatering discharges require a permit. Information can be found online at: http://sfwater.org/msc\_main.cfm/MC\_ID/14/MSC\_ID/445.

Each Trade Subcontractor is responsible for procuring the necessary dewatering permits for construction activities undertaken. The SFPUC prohibits the discharge of storm water that causes or threatens to cause pollution, contamination, or nuisance.

Additionally, all SWPPPs prepared by Trade Subcontractors must include procedures and practices designed to minimize or eliminate the discharge offsite of pollutants from vehicle and equipment cleaning, fueling, maintenance operations and other non-storm water. Project monitoring by trade Subcontractors will include a visual check for non-storm water discharges and non-storm water discharge potential.

# **3 BEST MANAGEMENT PRACTICES (BMPS)**

BMPs shall be implemented as listed in this Plan and additionally as necessary to adequately minimize erosion on site and limit sediment transport off site to an acceptable level in accordance with the SFPUC regulations and all City Codes and Ordinances.

Erosion and sediment control measures are needed throughout the year on the Project. In particular, stormwater catch basins must be protected year round. During dry season development, BMPs will be primarily designed to mitigate the movement of sediment and pollutants off site by tracking from grading equipment and from wind. Wet season BMPs are designed to prevent soil from washing off graded areas during rainy periods, tracking of soil and pollutants off site by vehicles and any other movement of pollutants from the Project.

# 3.2 BMP Objectives

This Construction Stormwater Pollution Control/Compliance Plan provides the following BMP objectives:

- Provide overall guidance to Trade Subcontractors in preparing SWPPPs and dewatering plans specific to their construction activities, construction timelines and drainage areas for submittal to the SFPUC.
- Delineate typical construction pollutants and their sources, including sources of sediment associated with construction, construction site erosion and other activities associated with anticipated construction activity. Trade Subcontractors are expected to expand and amend the information provided here within to tailor their SWPPPs to their activities.
- Outline best management practice (BMP) categories that need to be included in the SWPPPs prepared, submitted and maintained by the Trade Subcontractors to a level that results in the reduction or elimination of pollutants in storm water discharges and authorized non-storm water discharges from construction activity to the standard required by the SFPUC.

BMPs categories listed in this Construction Stormwater Pollution Control/Compliance Plan should be reviewed by the Trade Subcontractors, added to their SWPPPs as applicable and additionally installed, maintained, monitored and reported as practicable to adequately minimize erosion on site and limit sediment transport off site to an acceptable level. Adjustments and modifications to the BMPs identified in this Plan need to be implemented by the Trade Subcontractors as necessary to maintain the construction site in accordance with the provisions of the SFPUC regulations and all City Codes and Ordinances.

The SFPUC identifies the following list of BMPs and pollution prevention measures that must be implemented at all construction sites:

- Identify all storm drains and catch basins near the construction site and ensure all workers are aware of their locations to prevent pollutants from entering them.
- Protect all storm drain and catch basin inlets.
- Develop an erosion control and sediment control plan for wind and rain.
- Develop spill response and containment procedures.
- Inspect site regularly to ensure that BMPs are intact.

- Conduct daily site cleanings as needed.
- Educate employees and subcontractors about BMPs.
- Regularly maintain all BMPs at project site.

#### 3.2.1 Erosion Control BMPs

Erosion control practices consist of source control measures designed to prevent soil particles from becoming dislodged and transported in storm water runoff, while sediment control measures filter and otherwise recover soil particles from runoff. Erosion control BMPs protect the soil surface by covering and/or binding soil particles and in many cases, are more effective, less expensive, and require less maintenance and repair. Although they typically function by protecting the surface of exposed soil, erosion control measures cannot be effectively applied until grading activities are complete or idle.

At the Project, erosion is expected to occur primarily as a result of pavement removal, soil disturbance and subsequent wind or rain. For this reason, BMPs to limit the timing of soil disturbance and provide timely stabilization for the disturbed soil surface should be the focus of erosion control efforts for the site. Erosion control BMPs such as scheduling and non-vegetative soil stabilization (soil binders) should be considered by each Trade Subcontractor (TS) and added to their SWPPPS to control soil erosion on the construction site. Modifications to the BMPs may be necessary should construction activities or the construction schedule be altered. If modifications are needed to the BMPs, the Trade Subcontractor should work with the SFPUC to amend the SWPPP and Erosion Control BMPs to satisfactorily meet City storm water regulations.

Scheduling should be implemented throughout the project as a means of ensuring that significant earthdisturbing activities are avoided if rain is forecasted. If there are exposed areas that are not being actively worked the trade Subcontractors should consider stabilizing all areas as practical. If additional information or instructions are needed for BMP installations, the CASQA website and cutsheets can be found at: **www.casqa.org.** 

#### 3.2.2 Sediment Control BMPs

Sediment control is any practice that traps soil particles after they have been detached and moved by rain, flowing water, or wind. Sediment control measures are usually passive systems that rely on filtering or settling the particles. Sediment control, or capturing the sediment once it is mobilized, is considered back up or secondary to good erosion control.

Table 3 indicates the BMPs for sediment control that should be considered and included in SWPPPs by trade Subcontractors as applicable on the construction site.

BMP Name
Silt Fence
Fiber Rolls
Gravel Bag Berm
Sand Bag Barrier
Storm Drain Inlet Protection
Stockpile Management

#### **Table 3. Construction Sediment Control BMPs**

If additional information or instructions are needed for BMP installations, the CASQA website and Cutsheets can be found at: **www.casqa.org.** 

#### 3.2.3 Tracking Control BMPs

Tracking control consists of preventing or reducing the tracking of sediment off site by vehicles. Daily inspections will be conducted at the construction entrances and if track-out is observed, the area will be swept by the Trade Subcontractors. If additional information or instructions are needed for BMP installations, the CASQA website and cutsheets can be found at: **www.casqa.org.** 

#### 3.2.4 Wind Erosion Control BMPs

Wind Erosion Control is a very important BMP for the Project. All Trade Subcontractors are required to comply with the regulations specified by the local Air Quality Control District. Construction will be halted if required to do so due to high wind conditions as specified by the local Air Quality Control District, and/or common sense. Alternative forms of wind erosion control such as tackifiers and covers will be utilized as necessary to avoid and minimize windblown dust from leaving the project site. If additional information or instructions are needed for BMP installations, the CASQA website and cutsheets can be found at: **www.casqa.org.** 

#### 3.2.5 Non-Storm Water Control BMPs

Non-storm water management BMPs are source control BMPs that prevent pollution by limiting or reducing potential non-storm water pollutants at their source or eliminating offsite discharge. These practices involve day-to-day operations of the construction site and are also referred to as "good housekeeping practices" which involve keeping a clean, orderly construction site.

Non-storm water management BMPs includes procedures and practices designed to minimize or eliminate the discharge of pollutants from vehicle and equipment cleaning, saw cutting, pipe testing and other activities that generate liquid slurry or water based effluent. All storm/sanitary drain inlets should be located and protected during construction such that non-storm water carrying pollutants does not enter the inlets. Paving and concrete work should be undertaken during dry weather and drain inlets covered

during these activities. During wet weather construction, the drain inlets should be protected with a BMP that filters water such as sediment traps, silt bags and straw wattle.

#### 3.2.6 Waste Management/Materials Control BMPs

Waste management and materials pollution control BMPs, like non-storm water management BMPs, are source control BMPs that prevent pollution by limiting or reducing potential pollutants at their source before they come in contact with storm water.

These BMPs also involve day-to-day operations of the construction site, are under the control of the Trade Subcontractors, and are additional "good housekeeping practices" which involve keeping a clean, orderly construction site. Waste management consists of implementing procedural and structural BMPs for handling, storing, and disposing of wastes generated by a construction project. The objective is to prevent the release of waste materials into storm water runoff or discharges through proper management of the following types of wastes:

- Solid
- Sanitary
- Concrete
- Hazardous
- Equipment related wastes

Materials pollution control (also called materials handling) consists of implementing procedural and structural BMPs in the handling, storing, and the use of construction materials. The BMPs are intended to prevent the release of pollutants during storm water and non-storm water discharges. The objective is to prevent or reduce the opportunity for contamination of storm water runoff from construction materials by covering and/or providing secondary containment of storage areas, and by taking adequate precautions when handling materials. Material Safety Data Sheets, covered and secondary containment and employee training are important examples of materials pollution control. These controls must be implemented for all applicable activities, material usage, and site conditions by each Trade Subcontractor working on the Project.

The following BMP Table 4 indicates the BMPs for Trade Subcontractors to utilize to control construction site wastes and materials for the project.

BMP Name			
Material Delivery & Storage			
Material Use			
Spill Control			
Solid Waste Management			
Hazardous Materials/ Waste Management			
Concrete Waste Management			
Sanitary/Septic Waste Management			
Liquid Waste Management			

Table 4. Waste Management and Material Handling Control BMPs

Fuel (gasoline/diesel), hydraulic oil, motor oil, and other liquid or hazardous waste materials used for vehicle and equipment maintenance may be used on the construction site and at the lay down areas if applicable permits are obtained and spill/response measures are adhered to. Minor amounts of lubricants and hydraulic fluid may be stored in vehicles. Spill response equipment will also be located onsite and near active construction.

Waste management BMPs includes procedures and practices designed to minimize or eliminate the discharge of pollutants from vehicle and equipment use, as well as fueling and maintenance operations to storm water drainage systems or to watercourses. Drip pans, diapers or alternative containment will be placed under equipment and vehicles (as applicable during maintenance or if leaking is suspected) while not in use, to catch and/or contain drips and leaks and prevent soil contamination. Construction crews will be educated to check parking areas visually for signs of leaking liquids; any vehicles found to be leaking onto the soil surface will be provided with temporary drip pans while at the project site. Fueling may be conducted on the job site and at the lay down area if fueling BMPs are implemented, appropriate permits are obtained and proper spill control policies and procedures are followed.

It is important that Trade Subcontractors minimize or abate the exposure of materials stored or spilled at the site. Spill Response Procedures for smaller spills are presented in BMPs. If a larger spill or discharge offsite occurs, or if the project receives a written notice or order from any regulatory agency, Trade Subcontractors will follow their Health & Safety Plan and Spill Prevention Countermeasure and Control Plan (SPCC) as well as comply with all Federal, State and local spill reporting regulations.

# **4** BMP INSPECTION, MAINTENANCE AND RECORD KEEPING

Inspection and maintenance of BMPs are an integral part of the Project and will be followed by the Trade Subcontractors. During visual inspections, if any BMP deficiencies or any storm water compliance issues are observed, the Trade Subcontractor's Construction Supervisor will be notified immediately and the deficiencies will corrected as soon as possible. The Trade Subcontractors are responsible for maintaining and/or submitting any required monitoring records as required by regulatory agencies in accordance with current regulatory guidelines.

PRACTICE	MONITORING, MAINTENANCE AND REPAIR PROCEDURES			
Erosion Control	Check all soil protection including fabric, plastic, rock, hydroseed, mulch and velocity dissipation before, during and after rain events. Repair or replace as necessary to maintain proper function.			
Street Cleaning	Streets must be periodically cleaned. Large quantities of soil tracked onto the street will be picked up by a loader bucket and/or hand shoveled back onto the pad. Streets must also be swept on an as-needed basis to maintain continuous sediment and litter control. Street washing shall not be done.			
Sediment Control	Check integrity and functioning of berms, straw bales, check dams, and silt fences. Repair any eroded areas and remove accumulated debris.			
Inlet Protection	Monitor installation and maintenance of sediment barriers and inlet protection devices. Check periodically during storms and repair or remove sediment as necessary to maintain appropriate functioning.			
Temporary Basins	Remove accumulated sediment when sediment accumulates to within one foot of the outlet elevation and restore original dimensions of the basin. Obtain dewatering discharge permit from SFPUC prior to any dewatering of stored surface or groundwater.			
	• Petroleum products shall be stored out of the rain and waste materials shall be stored in secured containers. Paints, solvents, enamels, sealers, bonding agents, and other chemicals shall be stored inside a covered, secure area.			
Materials/ Equipment Storage	• Keep designated storage areas clean and well organized. Conduct weekly monitoring to check for damaged containers, leaks, etc.			
	• Keep chemicals in original containers and keep them labeled.			
	• Train employees and subcontractors on the use of the storage area.			
Fueling Practices	• If refueling of equipment is conducted on site, make sure that			

 Table 5. Trade Subcontractor Maintenance, Monitoring and Repair Procedures

PRACTICE	MONITORING, MAINTENANCE AND REPAIR PROCEDURES		
	fueling is occurring in designated areas and that secondary containment items such as drain pan or drop cloth are nearby to catch fuels/leaks.		
	• Inspect and maintain vehicles and equipment regularly to minimize leaks and drips.		
	• Comply with Federal, State and local requirements for fuel storage tanks.		
Herbicide/ Pesticide Application	Provide the landscape contractor with knowledge about proper procedures for application of designated chemicals.		
Waste Disposal	Provide proper disposal procedures for specific materials		
Litter Control	Place trash bins in appropriate locations and are being used properly. Pets will not be allowed on the Project during construction.		
Equipment Cleaning	If equipment cleaning is done on site, make sure contractors are using designated, bermed wash areas to prevent wash water from entering storm drain system.		

# **5** LIST OF CONTRACTORS/SUBCONTRACTORS

The following is a partial list of Trade Subcontractors, suppliers and consultants that may be employed on the Project. Names and contact numbers for each activity on the list can be obtained from Webcor /Obayashi upon request. This list is to be updated as necessary. This plan can be utilized as part of a subcontractor notification letter to document Subcontractors notification of their obligation to uphold applicable storm water pollution control regulations.

TRADE	NAME	Signature Indicating Willingness To Provide, Maintain, and Implement SWPPP in compliance with all applicable City Ordinances and Codes
Architect		
Bricklayers		
Cabinet Makers		
Carpenters (finish)		
Carpenters (rough)		
Ceramic Tile Installers		
Civil Engineer		
Cleaning Crews		
Concrete Subcontractors Testers		
Demolition Contractors		
Door Installers		
Drywall Installers		
Electricians		
Environmental Consultants		
Fence Builders		
Fireplace Installer		
Flooring Installers		
Garage Door Installers		
Glass Workers		
Grading Contractors		
Hardware Installers		
HVAC Contractors		
Insulation Contractors		
Marble Contractors		
Masonry Contractors		

TRADE	NAME	Signature Indicating Willingness To Provide, Maintain, and Implement SWPPP in compliance with all applicable City Ordinances and Codes
Millwork Suppliers		
Landscaping Contractors		
Landscape Maintenance Crews		
Lumber and Truss Suppliers		
Mirror and Shower Door Installers		
Painting Contractors		
Paving Contractors		
Pipeline Contractors		
Plaster Contractors		
Plumbing Contractors		
Roofing Contractors		
Shelving Installers		
Striping and Signage Contractors		
Stucco Contractors		
Termite Contractors		
Underground Utility Crews	Trinet	
Waterproofing Subcontractors		
Window Installers		

## **6** INSTRUCTIONS TO FIELD PERSONNEL

Webcor /Obayashi will be responsible for mandating that SWPPP documents be prepared by Trade Subcontractors and also for observing the site on a regular basis in keeping with the standard of care for a General Contractor. Webcor /Obayashi will coordinate day to day oversight of the Project as a whole, track compliance with their contract obligations as well as Trade Subcontractor costs, direct Trade Subcontractors to maintain the Project site in accordance with all applicable regulations, and attend to discussions with the City regarding compliance concerns. Contracts with Trade Subcontractors and Sub tier Subcontractors shall include a requirement to comply with the provisions of this Plan and to maintain compliance with all applicable City Ordinances and Codes. The Trade Subcontractors, Sub tier Subcontractors and their Project Superintendents for this project are hereby authorized to uphold, certify, and maintain their own SWPPPs and to distribute it to all field personnel responsible for monitoring the site and maintaining compliance with storm water regulations. All subcontractors, field personnel and their assigns that work at the site must conform to the requirements described in this Plan and the SWPPP developed for Trade Subcontractor activities and any alterations thereof made at the time and in the manner herein specified, and in all respects according to its intent and meaning, and shall indemnify and hold harmless Webcor /Obayashi, its officers and agents, if failure to conform results in legal action or any other action by the Regional Water Quality Control Board or City. Duties of the Trade Subcontractors include but are not limited to:

- Maintaining full compliance with their SWPPP and all City Codes and Ordinances.
- To this effect, the Trade Subcontractors shall have authority to mobilize their own crews for:
  - o BMP Installation, monitoring and maintenance.
  - Obtaining dewatering and other applicable permits necessary for the satisfactory completion of their contract.
  - o Providing for elimination of all unauthorized discharges.
  - Coordinating with the City such that all updates, amendments, corrections and/or repairs are made in a timely fashion.
  - Stopping any construction activity that is in violation of municipal ordinances or codes or that is inconsistent with the provisions of the Trade Subcontractors SWPPP.

# 7 CLOSING

The Project will comply with the storm water discharge regulatory framework in the site vicinity through implementation of this Construction Stormwater Pollution Control/Compliance Plan. This Plan indicates that each Trade Subcontractor is responsible for preparing, submitting for approval, installing and maintaining a SWPPP with BMPs for protecting inlets to the SF combined sewer system from construction activities. BMPs included in the SWPPPs prepared by each Trade Subcontractor should include practices from the BMP categories outlined in this Plan. The SWPPP shall be implemented concurrently with the commencement of Trade Subcontractor construction activities and maintained by the Trade Subcontractor in a form that provides the Project with full compliance throughout the construction schedule for activities undertaken by the Trade Subcontractor. Though projects such as the subject Project that are serviced by the combined sewer system in San Francisco are not subject to the terms of the State Construction General Permit, Section A of the Construction General Permit describes in detail the requirements for a SWPPP, and the City and County San Francisco specifies that it should be used as a design guide. All construction sites must prevent illicit discharge into the SF combined sewer system.

Appendix A Inlet Location Map

#### TRANSBAY TRANSIT CENTER Existing Catch Basin



**Appendix B Construction Stormwater Controls Monitoring Checklist** 

# CONSTRUCTION STORMWATER CONTROLS MONITORING CHECKLIST

WEBCOR/OBAYASHI TRANSBAY TERMINAL PROJECT

Date:				
Inspector Name:		Description	n of Inspected Area:	
24hr Rainfall Amount:	Weather Condition	s:		
Name of Trade Subcontractor Re	presentative:		Contact (Cell Phone #)	:
Erosion/Sediment Controls	Repairs Needed	ОК	Owner of Repair Task	Comments/Date Corrected
Check Dams/Sediment Traps				
Drainage Swales/Lined Ditches				
Entrance/Outlet/ Tire Wash				
Barrier (Sandbag/Gravel Bag)				
Fiber Rolls/Wattles/ Silt Fence				
Covers (Geotextile/Fabric/Plastic)				
Inlet Protection	_ _			
Soil Tackifiers/Dust Control Emuls	ions 🗆			
Street Sweeping/Vacuuming	п —			
Other:				
Good Housekeeping Controls	Repairs Needed	ОК	Owner of Repair Task	Comments/Date Corrected
Concrete Washout	-			
Dewatering System/Operation				
Illicit Connection Detection				
Material Delivery/Storage/Use)				
Paving and Grinding Operations				
Pile Driving Operations	_ _			
Sanitany/Sontic Wasto Managome				
Salitary/Septic Waste Manageme				
Spill Prevention and Control				
Equipment Servicing				
Waste Management				<u> </u>
Visual Observation of Runoff	Repairs Needed	ОК	Owner of Repair Task	Comments/Date Corrected
Sediment Laden/Turbid	-			
Oily Sheen				
Odor	п			
	_			
Documentation	Repairs Needed	ОК	Owner of Repair Task	Comments/Date Corrected
SWPPP on Site	-			
BMP materials Stockniled				
Spill Control in Compliance	_			
Discharge Permit Posted				
Inspection Logs Filled Out				
Othor:				
Other:				
Comments:				

# Appendix C SFPUC Construction Pollution Prevention Guide
Don't Be Caught Unaware New Pollution Prevention Requirements for the Construction Industry



Water Pollution Prevention Program San Francisco Public Utilities Commission City and County of San Francisco 3801 3rd Street, Suite 600 San Francisco CA, 94124

# Keep it on Site

Pollution Prevention Guide for the Construction Industry



(SFPUC) is pleased to announce Keep it on Site, as part is its new program to prevent water pollution at construction sites.

Runoff from construction sites is a major source of water pollution, and is subject to requirements such as the development of a stormwater pollution prevention plan, a plan review, stormwater treatment measures, runoff monitoring and increased site inspections.

As part of our Construction Site Water Pollution Prevention Program, this brochure will assist construction professionals understand and comply with the new State and Federal laws. Here, you will find valuable information on methods used on construction sites to keep pollution, such as dirt and construction site debris out of our sewage treatment system and sensitive local water bodies.

We hope to make your job easier while keeping our city clean by providing you with the information to create an efficient and environmentally safe construction site.

Together, we have the ability to preserve the quality of life in San Francisco.



Water Pollution Prevention Program San Francisco Public Utilities Commission City and County of San Francisco 3801 3rd Street, Suite 600 San Francisco CA, 94124

Constuction Site Runoff: (415) 695-7310 *http://pollutionprevention.sfwater.org* 

The goal of the Water Pollution Program is to control pollution at its source in order to protect the Bay, ocean, creeks and lakes.

Useful links about other pollution prevention programs throughout San Francisco:

San Francisco Water Pollution Prevention Program *http://pollutionprevention.sfwater.org* 

State Water Board www.waterboards.ca.gov/sanfranciscobay

International BMP Database *www.bmpdatabase.org* 

California Stormwater Quality Association *www.cabmphandbooks.com* 

#### **Emergency Phone Numbers**

To report illegal dumping of hazardous materials or wastes to the storm drain or sewer system, call San Francisco Water Pollution Prevention Program hotline: (415) 695-2020

#### Hazardous Spills: 911

#### **Inspection and Enforcement Program**

The Construction Site Inspection and Enforcement Program was established to ensure that all businesses operate in compliance with all appropriate stormwater laws and other City requirements. Contractors, site supervisors and property owners can be held responsible for violations, which may lead to a civil penalty of up to \$25,000 per day and reimbursing the City for all expenses associated with clean up<sup>1</sup>.

Construction materials such as paint, dirt, and trash often find their way into our storm drains, <sup>1</sup> San Francisco Sewer Use Ordinance Article 4.1, Public Works Codes

jeopardizing San Francisco's sewer system, and polluting surrounding local water bodies.

Contractors are now required to implement what are known as Best Management Practices (BMPs) on all construction sites. BMPs are methods used to keep pollution out of our storm drains and catch basins and off of City property such as sidewalks, streets, and alleys. Installing and maintaining these BMPs on the construction site is critical to protecting our sensitive water bodies.

If your project is greater than 1 acre, you are required to prepare a formal Stormwater Pollution Prevention Plan (SWPPP). Please contact SFPUC's Environmental Regulation and Management for more information at (415) 695-7310.

The following is a list of BMPs and pollution prevention measures that must be implemented at all construction sites.

- Identify all storm drains and catch basins near the construction site and ensure all workers are aware of their locations to prevent pollutants from entering them.
- Protect all storm drain and catch basin inlets.
- Develop an erosion control and sediment control plan for wind and rain.
- Develop spill response and containment procedures.
- Inspect site regularly to ensure that BMPs are intact.
- Conduct daily site cleanings as needed.
- Educate employees and subcontractors about BMPs.
- Regularly maintain all BMPs at project site.

#### Site Overview

This drawing illustrates Best Management Practices (BMPs) that must be followed at all construction sites in San Francisco.

#### Preserve existing vegetation

Preserving existing trees and vegetation where possible will prevent erosion.

#### Paint and Stucco

All paint and stucco materials stored on the site must be contained and covered. It is illegal for contractors to wash out paintbrushes in the street or dump any residues in the sewer or the storm drain. Paintbrushes and spray guns shall be washed/cleaned out into a hazardous materials barrel or put back into its original container and disposed of properly. Latex paint should be dried in its container and placed in the garbage. Oil paint and thinners need to be recycled as hazardous wastes.

#### **Perimeter Controls**

Gravel bags, silt fences, and fiber roles are acceptable perimeter controls, and shall be used to surround the entire site. Upstream perimeter controls prevent water from running into your site and downstream controls prevent sediment from leaving your site. Avoid running over perimeter controls with vehicles or heavy equipment, as they can damage the materials. Replace any damaged perimeter controls immediately. Keep extra absorbent materials and/or a wet/dry vacuum on site to quickly pick up unintended spills. Sites must also be checked and maintained daily.

#### **Building Materials / Staging areas**

Construction materials must be stored onsite at all times. The only exception is if you have a right-way-permit. Building materials should always be covered when not in use to prevent runoff caused by wind or rain. To apply for a right-of-way permit, contact the Bureau of Streets Use and Mapping at (415) 554-5810.

#### **Storm Drains and Catch Basins**

Storm drains must be protected at all times with perimeter controls, such as fiber rolls or gravel bags.



#### **Concrete Trucks / Pumpers**

Any concrete pumpers parked in public streets or alleys must be surrounded by perimeter controls, such as berms, gravel bags or fiber rolls. Tarps also must be placed beneath concrete pumpers at all times. Residual materials must be cleaned up as well.

#### Washout Area

The disposal of "wet" construction materials should be handled in the washout area. This includes paint, stucco, and concrete. Use a gravel bag or fiber roll and tarp to collect evaporation and prevent run-off in nearby areas. The washout area must be checked and maintained daily to ensure compliance.

### **Dirt and Grading**

Mounds of dirt or gravel should be stored on site and covered each day with a tarp. When in use, all exposed dirt piles should be sprayed with water to prevent excessive dust. Tarps must be available and onsite to cover 125% of exposed areas during the rainy season (October-April).

#### Earthmoving Equipment

All earthmoving equipment should be stored onsite. Maintenance and repair should never be conducted on the site. All tracks and trails left by equipment leading to and from the site should be cleaned up immediately.

#### Construction site stone or rock access drives

Stone or rock access drives at any construction site should be made of 3-4 inch fractured stone aggregate with a geo-textile liner below the grade of the road. This is to be used by all vehicles to limit tracks of mud onto the streets.

#### **Dewatering Activities**

A batch discharge permit is required before releasing any construction site wastewater. Call 415-695-7310 for more information.

#### **Dumpsters**

Keep dumpsters covered. Areas around dumpsters should be swept daily.



#### Water Pollution Prevention Program

San Francisco Public Utilities Commission City and County of San Francisco 3801 3rd Street, Suite 600 San Francisco CA. 94124 (415) 695-7310

siterunoff@sfwater.org http://pollutionprevention.sfwater.org

Original artwork and concepts developed by the City of Coronado, CA revised by SFPUC Graphics staff personnel.



## <u>Exhibit L</u>



## **TRANSBAY TRANSIT CENTER**

Hazardous Materials Management Plan Revision 1

March 11, 2011

WEBCOR/OBAYASHI JOINT VENTURE SAN FRANCISCO, CA

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#### REFERENCES

#### Hazardous Materials Management Plan TRANSBAY TRANSIT CENTER San Francisco, California

Webcor/Obayashi Joint Venture will be responsible for mandating that Hazardous Materials Procedures documents shall be prepared by Trade Subcontractors and also for observing the Trans Bay Transit Center site on a regular basis in keeping with the standard of care for a General Contractor. Webcor/Obayashi Joint Venture will also coordinate the day to day oversight of the Project as a whole, compliance with their contract obligations, the tracking of Trade Subcontractor costs, directing Trade Subcontractors to maintain the Project site in accordance with all applicable regulations, and for discussions with the City regarding compliance concerns. Contracts with Trade Subcontractors and Sub tier Subcontractors shall include a requirement to comply with the provisions of this Plan and to maintain compliance with all applicable City Ordinances and Codes. The Trade Subcontractors, Sub tier Subcontractors and their Project Superintendents for this project are hereby authorized to uphold, certify, and maintain their own Hazardous Materials Procedures Plans and to distribute it to all field personnel responsible for monitoring the site and maintaining compliance with Federal State and local regulations. All subcontractors, field personnel and their assigns that work at the site must conform to the requirements described in this Hazardous Materials Procedures developed for Trade Subcontractor activities and any alterations thereof made at the time and in the manner herein specified, and in all respects according to its intent and meaning, and shall indemnify and hold harmless Webcor Builders-Obayashi, its officers and agents, if failure to conform results in legal action or any other action. Duties of the Trade Subcontractors include but are not limited to:

- Maintaining full compliance with their Hazardous Materials Procedures plan and all City Codes and Ordinances.
- To this effect, the Trade Subcontractors shall have authority to mobilize their own crews for: monitoring and maintenance.
- Obtaining dewatering and other applicable permits necessary for the satisfactory completion of their contract.
- Stopping any construction activity that is in violation of municipal ordinances or codes or that is inconsistent with the provisions of the Trade Subcontractors Hazardous Materials Procedures plan.

The Transbay existing Terminal Building has been demolished and replaced with a multimodal Transit Center that includes an underground rail station. The depth of the excavation will be approximately 65 feet. A soil-cement shoring wall extending approximately 120 feet below ground surface (bgs) will form the perimeter of the Transit Center. A concrete buttress will be placed under the Transit Center adjacent to 301 Mission Street extending down to bedrock, approximately 240 feet.

This HMMP includes the requirement to mitigate potential health and safety (H&S) risks to the environment, workers, and site-user associated with the presence of certain constituents in the soil at the Site.

#### **ENVIRONMENTAL REPORTS**

Webcor /Obayashi Joint Venture have reviewed environmental reports prepared for the site. The following is a summary of the previous reports:

#### Phase I Environmental Site Assessment

The eastern portion of the Site is located in an area historically known as the Tar Flat which was a former industrial area developed during the Gold Rush Era of the 1850's. The Site has been occupied by numerous buildings involved in metal work facilities, foundries, and a coal yard. Also, the San Francisco Gas Light Company was located on the south central and south eastern edge Site. Coal tar waste is believed to have been discharged into the surrounding tidelands which include the eastern portion of the Site. The Transbay Terminal Building was constructed between the years of 1936 ad 1938 and was used as a passenger rail station. In 1958, the train tracks were removed and/or paved over and the Site has been used by buses since. In the 1950's, elevated concrete roadways were built on the Site as part of the Transbay Terminal and the Embarcadero Freeway. The Embarcadero Freeway was damaged during the 1989 Loma Prieta earthquake and was subsequently demolished. Since the 1990's, the Site has remained largely unchanged.

Significant findings included:

 The subsurface fill material at the Site may contain elevated concentrations of heavy metals and other residual petroleum hydrocarbons. These concentrations are likely associated with the presence of 1906 earthquake fill material located below the ground surface. Special soil handling and/or sampling will likely be required during any construction activities.

- Due to the proximity of the former San Francisco Gas and Light Plant (bounded by First, Fremont, Howard, and Natoma Streets) and the presence of manufactured gas byproduct waste found on nearby properties, hazardous materials may exist in the subsurface beneath the Site. Special soil handling and/or sampling will likely be required during any construction activity.
- The soil and groundwater near the West section of the Transbay Terminal Building may contain petroleum hydrocarbons and VOCs associated with the former USTs release. Special soil and groundwater handling and/or sampling will likely be required during any construction activities.

#### Site Investigations

Limited soil and groundwater sampling has been performed beneath the ramps and near the Transbay Terminal building in 1999 and 2008 by Treadwell & Rollo. Also, they performed an Environmental Site Characterization (ESC) in 2009 at the Transbay Terminal which included collecting soil samples of the fill material and underlying sand from 23 exploratory borings, chemical testing of selected samples, and evaluating the results. Treadwell & Rollo collected groundwater grab samples from four of the exploratory borings for chemical analysis. The objective of the ESC was to assess the presence of petroleum hydrocarbon and metal contamination in the soil and groundwater beneath the Site that will be removed and disposed during the proposed construction activities. Concentrations of chemical compounds and metals detected in the soil and groundwater samples were compared to state and federal criteria for hazardous waste and disposal options.

The results of our environmental site characterization and other available subsurface information in the vicinity indicate the Site is generally underlain by approximately 5 to 16 feet of fill material, composed of loose to medium dense silty sand with varying amounts of brick, wood, tar, and glass fragments. The presence of fill material underlying the Site is likely associated with the 1906 earthquake and fire. A sand layer consisting of medium dense to very dense sand with variable amounts of silt approximately 15 to 18 feet thick underlies the fill material. Bay Mud is present beneath the sand layer.

#### **Soil Results**

TPHg was detected above the method reporting limit (0.1 mg/kg) in 3 of the 88 samples analyzed at concentrations ranging from 0.29 mg/kg to 26 mg/kg. TPHd was detected above the method reporting limit (2 mg/kg) in 9 of the 87 samples analyzed at concentrations ranging from 2.01 mg/kg to 54.8 mg/kg. TPHmo was detected above the method reporting limit (4 mg/kg) in 49 of the 88 samples

analyzed at concentrations ranging from 4.09 mg/kg to 137 mg/kg. Methylene chloride was detected in 3 of the 14 samples analyzed at concentrations ranging from 0.056 mg/kg to 0.24 mg/kg. No other VOCs were detected at or above methods reporting limits.

Total cyanide was not detected above the method reporting limit (1 mg/kg) in any of the 5 samples analyzed. No SVOCs, Pesticides, PCBs, Sulfide, or Cyanide were detected at or above method reporting limits in the samples analyzed. The pH measured in five samples ranged from 6.70 standard units (S.U.) to 8.66 S.U.

Total lead was detected in each of the samples analyzed at concentrations ranging from 1.2 mg/kg to 1,000 mg/kg (Table 2). Total lead was detected at concentrations at or above 50 mg/kg but below 1,000 mg/kg in 33 soil samples. Each of these soil samples was subsequently run for STLC and TCLP lead to determine soluble lead levels. One soil sample (TR-21-5) matched the State of California hazardous waste criteria of 1,000 mg/kg for total lead and subsequently run for TCLP lead to determine if this soil represents a federal RCRA hazardous waste. The TCLP result was 0.83 milligrams per liter (mg/L) so less than the federal RCRA hazardous waste criteria of 5 mg/L.

STLC lead was detected at or above the method reporting limits in 33 of the 34 samples analyzed at concentrations ranging from 0.13 mg/L to 52.1 mg/L. A total of 19 soil samples exceeded the State of California hazardous waste criteria of 5 mg/L. TCLP lead was detected at or above the method reporting limits in 22 of the 36 samples analyzed at concentrations ranging from 0.13 milligrams per liter (mg/L) to 14.5 mg/L. A total of one soil sample (TR-21-5) exceeded the Federal hazardous waste criteria of 5 mg/L.

The remaining metal concentrations were within normal<sup>1</sup> background ranges found in the western United States with the exception of zinc in sample TR-2-1.5 which was detected at a concentration of 5,600 mg/kg.

#### **Groundwater Results**

No oil and grease, TRPH, or SVOCs were detected above method reporting limits in any of the four samples. TSS was detected in all the samples with concentrations ranging from 110 mg/L to 160,000 mg/L. COD was detected in TR-19-GW, TR-20-GW, and TR-24-GW with concentrations of 24 mg/L, 20

<sup>&</sup>lt;sup>1</sup> "U.S.G.S. Professional Paper 1270, Element Concentrations in Soils and Other Surficial Materials of the Conterminous United States," 1984.

mg/L, and 64 mg/L, respectively. Phenolics were detected in TR-24-GW at a concentration of 0.074 mg/L. TR-19-GW, TR-20-GW, and TR-24-GW were tested for pH with concentrations of 7.41 S.U., 7.07 S.U., and 7.45 S.U., respectively.

Trichloroethylene was detected in TR-8-GW at a concentration of 1.58 mg/L. 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, benzene, ethylbenzene, isopropyl benzene, n-propybenzene, styrene, toluene, and total xylenes were detected in TR-19-GW with concentrations of 0.0223 mg/L, 0.00568 mg/L, 0.0251 mg/L, 0.011 mg/L, 0.00561 mg/L, 0.00138 mg/L, 0.00143 mg/L, 0.0171 mg/L, and 0.0591 mg/L, respectively. Methyl tert-butyl ether (MTBE) was detected in TR-20-GW at a concentration of 0.00078 mg/L. Naphthalene was detected in TR-19-GW, TR-20-GW, and TR-24-GW at concentrations of 0.417 mg/L, 0.00371 mg/L, and 0.0548 mg/L, respectively. No other VOCs were detected in any of the samples.

Antimony was detected in TR-20-GW at a concentration of 0.012 mg/L. Arsenic was detected in TR-24-GW at a concentration of 0.024 mg/L. Barium was detected in TR-8-GW, TR-19-GW, TR-20-GW, and TR-24-GW at concentrations of 0.066 mg/L, 0.052 mg/L, 0.085 mg/L, and 0.022 mg/L, respectively. Chromium was detected in TR-8-GW and TR-20-GW at concentrations of 0.032 mg/L and 0.008 mg/L, respectively. Cobalt was detected in TR-8-GW and TR-20-GW at concentrations of 0.011 mg/L and 0.006 mg/L, respectively. Molybdenum was detected in TR-8-GW, TR-20-GW, and TR-24-GW at concentrations of 0.01 mg/L, 0.024 mg/L, and 0.009 mg/L, respectively. Nickel was detected in TR-8-GW, TR-20-GW, and TR-24-GW at concentrations of 0.052 mg/L, and 0.013 mg/L, respectively. Vanadium was detected in TR-8-GW, TR-19-GW, TR-20-GW, and TR-24-GW at concentrations of 0.032 mg/L, 0.012 mg/L, 0.012 mg/L, and 0.021 mg/L, respectively. Zinc was detected in TR-8-GW, TR-20-GW, and TR-24-GW at concentrations of 1.1 mg/L, 0.013 mg/L, and 0.011 mg/L, respectively. No other metals were detected in any of the samples.

#### SUBSURFACE CONDITIONS

The results of previous site investigations and other available subsurface information in the vicinity indicate the Site is generally underlain by approximately 5 to 16 feet of fill material, composed of loose to medium dense silty sand with varying amounts of brick, wood, tar, and glass fragments. The presence of fill material underlying the Site is likely associated with the 1906 earthquake and fire. A sand layer consisting of medium dense to very dense sand with variable amounts of silt approximately 15 to 18 feet thick underlies the fill material. Bay Mud is present beneath the sand layer.

Groundwater was encountered at the time of the investigation at depths ranging from 13 to 20 feet bgs. Groundwater levels may fluctuate depending on the season. The groundwater flow direction is likely to the northeast towards San Francisco Bay.

#### DISCUSSION

Based on the analytical results from the Site subsurface investigation and previous analytical results, some of the fill material contains elevated total and soluble lead levels at concentrations exceeding Federal and State of California hazardous waste criteria. The remaining fill material will most likely be accepted at a regulated Class II and/or Class III landfill. Based on previous environmental investigations at the Site and vicinity, the sand underlying the fill would likely be disposed of as unrestricted waste.

The area of fill material containing soluble lead concentrations exceeding the Federal hazardous waste criteria are near boring TR-21 at a depth of 5 feet bgs. The areas of fill material containing total and soluble lead concentrations exceeding the State of California waste criteria are located near borings TR-1 at depths of 1.5 and 5 feet bgs, TR-2 at depths of 1.5, 3 and 5 feet bgs, TR-4 at depths of 3 and 5 feet bgs, TR-8 at depths of 1.5 and 3 feet bgs, TR-14 at a depth of 3 feet bgs, TR-15 at a depth of 3 feet bgs, TR-16 at a depth of 5 feet bgs and 10 bgs, TR-17 at depths of 1.5, 3 and 5 feet bgs, TR-19 at a depth of 7.5 feet bgs, TR-20 at a depth of 7.5 feet bgs, and TR-21 at a depth of 3 feet bgs. The remaining fill material will be disposed as Class II non-hazardous waste.

Groundwater is encountered at depths ranging from approximately 13 to 20 feet bgs across the Site. The proposed construction activities most likely will encounter groundwater in quantities that will require its removal from the subsurface. Prior to discharge into the sanitary sewer system, the dewatering contractor will obtain a batch groundwater discharge permit from the San Francisco Public Utilities Commission (SFPUC).

Because hazardous materials were detected at the Site, a SMP and a HASP will be required prior to construction. The Subcontractor HASP will outline proper soil handling procedures and H&S requirements to minimize worker and public exposure to hazardous materials during construction.

#### **RECOMMENDATIONS FOR MITIGATIVE ACTIONS**

The results of previous environmental investigations at and near the Site indicate the fill material beneath the Site contains elevated concentrations of heavy metals and petroleum hydrocarbons. The presence of these compounds poses soil management and potential H&S issues to be addressed as part of the Site development activities. The soil management objectives for the Site are to minimize exposure to construction workers at the Site, nearby residents and/or pedestrians, and future users of the Site to constituents in the soil.

#### Health and Safety Issues

There may be a potential H&S risks associated with the heavy metals and petroleum hydrocarbons detected at the Site. There also may be a potential for this soil to affect construction workers at the Site, nearby residents and/or pedestrians, and future users of the Site. The routes of potential exposure to the petroleum hydrocarbons and metals could be through three pathways: 1) dermal (skin) contact with the soil, 2) inhalation of dusts, and 3) ingestion of the soil.

The most likely potential for human exposure to the petroleum hydrocarbons and metals in the soil will be during soil excavation operations. Because on-site materials contain concentrations of petroleum hydrocarbons and lead in excess of the Proposition 65 guidelines, there is a requirement that appropriate health and safety procedures, as well as warning requirements, be implemented during construction. The trade sub contractor will be responsible for establishing and maintaining proper H&S procedures to minimize worker and public exposure to Site contaminants during construction. Webcor/Obayashi Joint Venture will oversee this process and require the development and implementation of a comprehensive HASP, which should be prepared by a certified industrial hygienist that represents each subcontractor or its sub tier contractor.

The H&S training requirements, i.e. trained in accordance with Section 1910.120 of 29 Code of Federal Regulations (HazWoper training), specific personal hygiene, and monitoring equipment that will be used during construction to protect and verify the H&S of the construction workers and the general public from exposure to constituents in the soil. Air monitoring to evaluate the amount of airborne particles during excavation will be required by the tub trade contractors. All reports will be kept in a central location managed by Webcor/Obayashi Joint Venture.

A representative of Webcor/Obayashi Joint Venture and the Site health and safety officer (HASO) representing the trade subcontractor will be on site at all times during excavation activities to ensure that all health and safety measures are maintained. The Webcor/Obayashi Joint Venture representative or HASO will have authority to direct and stop (if necessary) all construction activities in order to ensure compliance with the HASP.

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The purpose of the HASP is to provide field personnel with an understanding of the potential chemical and physical hazards, protection of any off-site receptors, procedures for entering the project Site, H&S procedures, and emergency response to hazards should they occur. All project personnel shall read and adhere to the procedures established in this HASP. A copy of all plans will be kept on site during field activities and will be reviewed and updated as necessary.

The general public will be protected through the following measures maintained by trade subcontractors and monitored by Webcor/Obayashi Joint Venture:

- the Site will be fenced;
- exposed soil at the construction Site will be watered as necessary to prevent visible dust from migrating off-site;
- soil stockpiles will be covered;
- water will be misted or sprayed during the loading of soil onto trucks for off haul;
- trucks transporting contaminated soil will be covered with a tarpaulin or other cover;
- the wheels of the trucks exiting the Site will be cleaned prior to entering public streets;
- public streets will be swept daily if soil is visible; and
- Excavation and loading activities will be suspended if winds exceed 20 miles per hour.

#### Soil Management

The proposed construction activities will disturb soil during the excavation activities including: soil handling during archeological investigations, shoring wall installation, construction of a buttress for the adjoining 301 Mission Street property, timber pile removal and disposal, utility relocation and the mass excavation for the new Transbay Transit Center. During all excavation activities, dust control measures will be implemented to reduce potential exposure. These measures shall include moisture-conditioning the soil using dust suppressants and covering the exposed soil and stockpiles with weighed down plastic sheeting to prevent exposure of the soil.

Since all the contaminated fill material will be excavated and disposed of off-site, there will be no risk of direct contact with the underlying fill material by future Site users.

The Site's HASP (prepared by the trade sub contractor) will contain additional dust monitoring, action levels, dust control measures, and work stoppage provisions that will be followed during construction activities.

#### Soil Segregation and Disposal

Before any excavation activities begin at the Site, a TJPA representative shall be provided documentation from the excavation contractor that the accepting landfill facility for the soil from Transbay Terminal project has been provided with and has reviewed all analytical data collected from the Site. TJPA shall approve all off-site disposal facilities and soil transportation contractors, including, without limitation, available insurable coverage, <u>and prior to</u> the shipment of any soil or other waste materials. The TJPA representative will provide testing and schedule the intervals that testing shall occur.

The results of previous soil analytical testing indicate that some of the soil located at the Site will be disposed off-site at a Class I landfill, however additional chemical testing of the soil may be required by the landfill prior to disposal. The excavation contractor shall be responsible for tracking the disposition of soil removed from the Site. Any excavated soil characterized as a hazardous waste shall be tracked using the Uniform Hazardous Waste Manifest System (USEPA Form 8700-22), as applicable. Soil not characterized as a hazardous waste shall be tracked using non-hazardous bills of ladings. All documentation will be provided to TJPA during the excavation activities.

If soil stockpiling of suspected contaminated soil is to be performed, the excavation contractor shall establish appropriate soil stockpile locations on the Site to properly segregate, cover, control dust, profile, and manage the excavated soil. Stockpiled soils are to be placed on top of one layer of 10-mil polyethylene sheeting (or equivalent), such as Visqueen. When stockpiled soil is not actively being handled, top sheeting will be adequately secured so that all surface areas are covered.

#### **Soil Disposition**

The Trade Sub contractor will establish appropriate off-site soil disposal locations and direct truck loading scheduling and/or soil stockpile locations on the Site to properly segregate, cover, moisture control, and profile the excavated soil. Soil profiling criteria will ultimately depend on the acceptance criteria of the landfills receiving the soil. These procedures will be established by the excavation contractor and coordinated with the proposed landfills prior to initiating soil excavation. It is not anticipated that soil will be reused at the Site for construction-related activities.

The Webcor Obayashi JV will, on behalf of TJPA, will be responsible for tracking final soil dispositions and turn that information to the TJPA representative. Any excavated soil considered hazardous waste will be tracked using the Uniform Hazardous Waste Manifest System (USEPA Form 8700-22), as applicable. Soil not considered hazardous waste will be tracked using non-hazardous bills of lading. These two systems will be used to comply with appropriate state and local requirements.

The contractor will arrange for transportation of all wastes off-site. Hazardous and non-hazardous waste will be transported to the appropriate disposal facility using a permitted, licensed, and insured transportation company. Transporters of hazardous waste must meet the requirements of 40 CFR 263 and 22 CCR 66263. All trucks transporting bulk hazardous waste will be properly lined and covered with compatible materials. Trucks will be decontaminated prior to any use other than hauling contaminated materials unless the contaminated material was already double-contained. The contractor will be responsible for preparing and submitting traffic control plans for trucks entering and leaving the Site. A decontamination pad location plan and decontamination procedures will be prepared. A route plan will also be prepared showing the expected route each truck will use to reach each landfill.

For soil that is to be exported off-site that is characterized as a hazardous waste, an appropriate USEPA Generator Identification Number will be recorded on the hazardous waste manifests used to document transport of hazardous waste off-site. The hazardous waste transporter, disposal facility, and U.S. Department of Transportation (DOT) waste description required for each manifest will be determined on a case-by-case basis. A description of the number of containers being shipped, the type of container, and the total quantity of waste being shipped will also be included on each manifest.

Webcor/Obayashi Joint Venture representative will be responsible for overseeing the sub trade provides accurate completion of the hazardous waste manifests and nonhazardous bills of lading. Records of all wastes shipped off-site will be maintained by TJPA and will be made available for inspection on request. The final destination of wastes transported off-site will be documented in the Site Closure Report that will be prepared by others.

#### Soil Sampling

If needed, chemical testing of the stockpiled soil will be performed to profile the soil for disposal. Soil profiling criteria depends on the proposed landfill location or off-site receiving facility. These procedures shall be established by the excavation contractor and coordinated with the proposed landfills prior to initiating soil excavation. Typical soil profiling requirements are one four-point composite sample per 500 to 750 cubic yards to be disposed.

If soil samples are required for analysis, the samples shall be collected by the TJPA representative and tracked.

#### Timber Pile Removal and Disposal

Part of the foundation system for the Transbay Terminal building includes timber piles beneath the basement slab. During the excavation activities these timber piles will be removed and disposed of. The timber piles will be extracted from the subsurface and as much as possible removal of all the soil which is attached to the timber pile will need to be performed. The extracted timber piles will be segregated, tested by the TJPA representative and transported. If disposed of as a Treated Wood at a Class II non-hazardous waste with copies of the Bill of Ladings will be submitted to TJPA representative.

#### Underground Storage Tank Removal and Disposal

If a underground storage tank (UST) and/or and associated product lines are found, arrange for a licensed tank removal contractor to properly remove and dispose of the UST. Proper permits and notifications should be in place prior to removing the UST. If soil staining is observed, place the affected soil into a stockpile onto plastic sheets and cover with plastic sheets. The Environmental Consultant will complete soil sampling and analysis tasks for UST closure in accordance with San Francisco Fire Department (SFFD) and SFDPH.

#### **Coal Gasification Residual Material**

The former San Francisco Gas Light Company was located on the south central and south eastern edge of the Site. Coal tar waste is believed to have been discharged into the surrounding tidelands which include the eastern portion of the Site. Excavation in this area of the Site will most likely encounter residual coal tar waste. Some of the coal gasification residual material encountered may be former piping, coal tar, phenols, heavy metals, and polynuclear aromatic hydrocarbons. If any coal gasification residual material is encountered during the excavation, the material will be stockpiled onto plastic sheeting and covered with plastic sheeting. The TJPA representative will collect soil samples and analyzed the material to determine proper disposal of the material.

#### **Groundwater Management**

Groundwater is encountered at depths ranging from approximately 13 to 20 feet bgs across the Site. The proposed construction activities most likely will encounter groundwater in quantities that will require its removal from the subsurface. Prior to discharge into the sanitary sewer system, the dewatering Trade Subcontractors will obtain a batch groundwater discharge permit from the San Francisco Public Utilities

Commission (SFPUC). Based on analytical results of the groundwater samples analyzed during previous Site investigations, approval of the groundwater discharge from the dewatering system would be granted by SFPUC.

#### **Dust Control**

Prior to initiating construction activities, a dust control plan (prepared by Trade Subcontractor and specific to this project) will be implemented to reduce potential exposure during excavation and loading operations. This document will contain measures to protect construction workers and the public including: dust monitoring, action levels, dust control measures, and work stoppage provisions that will be followed during construction activities.

Dust control will be accomplished through implementation of engineering controls, including light water spraying or misting of stockpiled soil, truck loading areas and work areas. Misting or spraying will be performed to sufficiently reduce fugitive dust emissions, but limited to prevent water runoff. Efforts will also be made to minimize the soil drop height from an excavator's bucket onto soil piles or into transport trucks. The site-specific dust control plan will as needed, include some or all of the following procedures: site fencing; wetting soil; analysis of wind direction; dust monitors at the work zone and at the Site perimeter and appropriate record keeping, visible inspection; establishing a hotline for community response; limiting excavation area; soil storage regulations (e.g. covering stockpiles); windbreaks; paving; truck loading requirements (e.g. covering vehicles or excavator bucket drop heights); Site vehicle speed limits; wheel washing; street sweeping; termination of excavation if winds exceed 20 mph; and/or addition of soil stabilizers; or other responses as needed.

#### **Contingency Procedures**

Hazardous materials including; sumps and/or vaults, asbestos piping, former monitoring wells, and soil with petroleum hydrocarbon odors and/or stains may be encountered during excavation activities. If unanticipated hazardous materials are encountered, the following procedures will be maintained by trade subcontractors and monitored by Webcor/Obayashi Joint Venture:

- stop work in the area where the suspect material was encountered and cover it with plastic sheets;
- notify the Webcor/Obayashi Joint Venture representative, the TJPA Environmental Consultant for Site a inspection and appropriate action in the suspect area; and
- review the existing H&S plan and make revisions, if necessary; and

• Have appropriately trained personnel on Site to work with the affected materials, once directed by Webcor/Obayashi Joint Venture.

If a sump and/or vaults are encountered during excavation activities, contact the TJPA Environmental Consultant for inspection and appropriate action. If no liquid, obvious staining or odors are observed, sump and/or vaults will likely be destroyed and disposed of. If liquid is present within the sump and/or vault and/or obvious staining and odors are observed, the TJPA, Environmental Consultant will collect samples for analyses to determine how to properly disposal of the material.

If stained soil or odors are observed, plastic sheeting will be placed over the affected area and the TJPA Environmental Consultant will be contacted for inspection and appropriate action. If the material is to be excavated, the material will be stockpiled onto plastic sheeting and covered with plastic sheeting. Soil samples will be collected and analyzed to determine proper disposal of the material.

#### REFERENCES

Site Mitigation Plan Transbay Transit Center: Treadwell & Rollo, Inc. dated March 2010.



## Exhibit M

## **RFI QUESTION AND ANSWER LOG**



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

 Page:
 1 of 244

 Date:
 05/11/2012

 Time:
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 Job:
 30100

Terrol       Article 6 Changues in Work - Clarification       Closed       1011/2010       1025/2010       11/03/2010       Potentially       Image: Construction Comp Daphne Faulkner         Co-Author:       To: Turner Construction Compan. Daphne Faulkner       Answered By:Turner Construction Comp Daphne Faulkner         REQUEST:       Reference: Spec: Section 00 07 00, Article 6 - Clarifications and Changes in Work       SUGESTION:       ANSWER:       Accept Suggestion:       Do 07 00 etcin 4, specifies that, "TJPA may, order additions, defined for specification specificatispecificatispecificatispecification specification specification sp	Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact Pro	
From: Webcor Construction LP       Jeanne Filipas       To: Turner Construction Compa Daphne Faulker       Answered By:Turner Construction Comp Daphne Faulker         Co-Auttor:       SUGESTION:       SUGESTION:       OUT 00 - 6.01 A specifies that, "TLPA may,-order achieves and the General Configure specification specificating minori sphane specification specification specifica	T-0001	Article 6 Change	es in Work - Clarification		Closed	10/11/2010	10/25/2010	11/03/2010	Potentially	
Co-Author:       NSUGESTION:       ANSWER: Accept Suggestion: []       0.07 00.601.4 specifies that, "TLPA may, order additions, delations, and through a movie that the Work, by Change Order or Held Order, Vorder additions, delations, and the Work, by Change Order or Held Order, Vorder Suggestion: []       0.07 00.601.4 specifies that, "TLPA may, order additions, delations, and proceed with hele Work, by Change Order or Held Order, Vorder, additions, delations, and proceed with hele Work, by Comply with such orders and proceed with hele Work, Change Order or Held Order, Section 60.2 B. Mates that the TLPA with Write Clarification demond necessary and consistent with the top proceed with hele Social Plant with the records or 10.4 D. GMCGC to a top proceed with the Hele Order is consistent with the records of 10.4 D. GMCGC to a top proceed with the Hele Order is consistent with the records of 10.4 D. GMCGC to a top proceed with the Hele Order is consistent with the records of 10.4 D. GMCGC to a top proceed with the Hele Order is procee	From: Webcor	Construction LP	Joanne Filipas	To: Turner Construction Con	npan Daphne Faulkner	Answered B	Date Required       Date Answered       Cost Impact       Pri         10/25/2010       11/03/2010       Potentially         #:Turner Construction Comp Daphne Faulkner         Accept Suggestion:			
REQUEST:       SUGGESTION:       ANSWER:       Accept Suggestion:       D         Advices in the General Condition specification section 00       07 00 - 60.14. Specification is in the Work by       D07 00 - 60.14. Specification is in the Work by         According these the procedures defined throughout Article 6 are conflicting,       According used to 60.24. CMOS chall promptly         Comply and proceed with changes issued by the TJPA in       the form of a Change Origine - Stack and the excessary and consistent with         the form of a Change Origine - Stack and throughout Article 6 are conflicting,       According to excission 16.14. Work by         According to exciss on 50.34. After CMIGG is to proceed with changes issued by the TJPA in the form of 30.34. the CMIGG is to proceed with hanges in work. The proceed with the Field Order is consistent with the hanges in work. The proceed of with Field Order is considered to a Change Order is excission for 0.02. A the CMIGG is to proceed with the Field Order is considered to exciss on the CMIGG is to proceed with the Field Order is considered to the CMIGG is to proceed with thranges in work. The proceed with any changed       There or the CMIGG is to proceed with the field Order is considered to the CMIGG is to proceed with the field Order is considered to the CMIGG is to proceed with the field Order is considered to the CMIGG is to proceed with any changed         Promoz       Transit Center Building Address Clarification       Closed       10/20/201       10/20/201       Potentialty         Priors: Webcor/Obbayashi Joint Venture       Jeanne Filips       SUGESTION:       NEWER:	Co-Author:									
Reference: Spec Section 00 07 00. Ancle 6 -       00 07 00 - 6 01 A specifics that: "UPA Timey. order         Clainfications and Changes in Work       Market 6 in the General Condition specification section 00       07 70 - 6 01 A specifics that: "UPA Timey. order         Article 6 in the General Condition specification section 00       07 70 - 6 01 A specifics that: "UPA Timey. order       additions: deletions: which be Work by         Change Order or Field Order, CMWGC shall promptly       Compto and proceed with the Work."       (emphasis added). Under paragraph 50 28. TJPA         may and proceed with changes issued by the TJPA in the form of a Change order or Field Order, sconsistent with the Contract Documents or a Field Order requiring minor       Exclass state that the TJPA will respond to RFIs with written Changes issued by the TJPA in the opinion of the CMKGC is to proceed with changes issued by the TJPA in the opinion of the CMKGC is to proceed with changes been on Sint At the CMKGC is to proceed with changes periodity and prior to proceed with changes       Therefore, TJPA expects the CMKGC is and the CMKGC shall promptly to proceed with the GMKC is to proceed with changes         Proceed Vint Def Request with of the CMKCC is to proceed with changes       Therefore, TJPA expects the CMKGC is nearly with any changed         Wark.       Proceed of the CMKCC is to proceed with changes       To: Turner Construction Compan Daphne Faulker         Terms: Webcor/Delyashi Joht Venture       Joanne Filipas       To: Turner Construction Compan Daphne Faulker         REQUEST:       Prease clarify the building address for the Transbay Finder Cou	REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
T-0002       Transit Center Building Address Clarification       Closed       10/20/2010       11/03/2010       10/28/2010       Potentially         From: Webcor//Obayashi Joint Venture       Joanne Filipas       To: Turner Construction Compan Daphne Faulkner       Answered By:Transbay PMPC       Alfred Lau         Co-Author:       SUGGESTION:       ANSWER:       Accept Suggestion:       425 Mission Street, San Francisco, CA 94105         Please clarify the building address for the Transbay Transit Center. This is required to complete our site specific Click Safety program, complete insurance documents, etc.       SUGGESTION:       Answered by Alfred Lau       TJPA (PMPC)         T-0003       301 Mission Wall Specification Format       Closed       11/17/2010       12/01/2010       11/23/2010       Potentially	Reference: Sp Clarifications a Article 6 in the 07 00 defines procedures de According to s comply and p the form of a 0 6.02.B states written Clarific the Contract D changes in wo proceed with according to s Change Order Please advise promptly and receive approv	bec Section 00 07 00, Artic and Changes in Work a General Condition specif the procedure for change effined throughout Article 6 section 6.01.A, CM/GC sha roceed with changes issue Change Order or Field Orde that the TJPA will respond cation deemed necessary Documents or a Field Orde ork. Per section 6.01.A, th the Field Order immediate section 6.03.A, CM/GC sha r Request within 21 days of if the CM/GC is to proceed prior to approval or if the C val prior to proceeding with	cle 6 - ication section 00 s in work. The are conflicting. all promptly d by the TJPA in der. Section d to RFI's with and consistent with er requiring minor ly. However, all submit a of written directive. ed with changes CM/GC shall h any changed			00 07 00 - 6.0 additions, del Change Orde comply with s [emphasis ad may issue a f submitted by CM/GC must opinion of the be a Change Therefore, TJ proceed with through a Fie CM/GC has t appropriate to To avoid conf state whether instruction pro- whenever pos- into the Work sequence of a	D1.A specifies the etions, or revision r or Field Order, uch orders and ded]. Under particular Field Order in re CM/GC. Under submit a COR vor CM/GC, the Field to the Contract. PA expects the Work as may be do Order, unless the recourse of so o do so, within the usion, TJPA's Field the CM/GC is ro comptly. Neverthe sible incorporate with minimal dispatches.	at, "TJPA may ons in the Work to CM/GC shall pr proceed with the irragraph 6.02.B, sponse to an RF paragraph 6.03/ within 21 days if eld Order is cons CM/GC promptly e clarified or dire- instructed other ubmitting a COR ie time limit stipu- ield Orders will of equired to carry eless, the CM/G e a Field Order of sruption to the pl	order by omptly Work," TJPA I A, the n the idered to ted wise. when lated. learly but the C shall directive anned	
From: Webcor/Obayashi Joint Venture       Joanne Filipas       To: Turner Construction Compan Daphne Faulkner       Answered By:Transbay PMPC       Alfred Lau         Co-Author:       REQUEST:       SUGGESTION:       ANSWER: Accept Suggestion:       425 Mission Street, San Francisco, CA 94105         Please clarify the building address for the Transbay Transit Center. This is required to complete our site specific Click Safety program, complete insurance documents, etc.       SUGGESTION:       Answered by Alfred Lau       425 Mission Street, San Francisco, CA 94105         To: Turner Construction Compan Daphne Faulkner       Answered by Alfred Lau       To: Turner Construction Compan Daphne Faulkner       Answered By:Transbay PMPC       Alfred Lau         Transit Center. This is required to complete our site specific Click Safety program, complete insurance documents, etc.       SUGGESTION:       Answered by Alfred Lau       To: Turner Construction Compan Daphne Faulkner         To: Turner Construction Compan Daphne Faulkner       Answered By:Transbay PMPC       Alfred Lau         To: Turner Construction Compan Daphne Faulkner       Answered By:Transbay PMPC       Alfred Lau         To: Turner Construction Compan Daphne Faulkner       Constructware RFI #T-0003       Constructware RFI #T-0003         To: Turner Construction Format       Closed       11/17/2010       11/23/2010       Potentially	T-0002	Transit Center B	uilding Address Clarifica	ation	Closed	10/20/2010	11/03/2010	10/28/2010	Potentially	
Co-Author:   REQUEST: SUGGESTION:   Please clarify the building address for the Transbay Transit Center. This is required to complete our site specific Click Safety program, complete insurance documents, etc.   Torono 301 Mission Wall Specification Format Closed   Closed 11/17/2010   12/01/2010 11/23/2010   Potentially	From: Webcor	/Obayashi Joint Venture	Joanne Filipas	To: Turner Construction Con	npan Daphne Faulkner	Answered B	/:Transbay PMF	PC Alfre	ed Lau	
REQUEST:       SUGGESTION:       ANSWER:       Accept Suggestion:       Acc	Co-Author:									
Please clarify the building address for the Transbay Transit Center. This is required to complete our site specific Click Safety program, complete insurance documents, etc. T-0003 301 Mission Wall Specification Format Closed 11/17/2010 12/01/2010 11/23/2010 Potentially Potentially	REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Transit Center. This is required to complete our site specific Click Safety program, complete insurance documents, etc.       Answered by Alfred Lau TJPA (PMPC) 10/28/2010         T-0003       301 Mission Wall Specification Format       Closed       11/17/2010       12/01/2010       11/23/2010         From With the Construction I/D       Deside Human ford       To Table Construction of the construction of th	Please clarify	the building address for th	ne Transbay			425 Mission S	Street, San Fran	cisco, CA 94105		
Constructware RFI #T-0003         T-0003       301 Mission Wall Specification Format       Closed       11/17/2010       12/01/2010       11/23/2010       Potentially	specific Click documents, et	Safety program, complete tc.	insurance			Answered by TJPA (PMPC 10/28/2010	Alfred Lau )			
T-0003 301 Mission Wall Specification Format Closed 11/17/2010 12/01/2010 11/23/2010 Potentially						Constructwar	e RFI #T-0003			
T-0003 SUT MISSION WAILS DECITICATION FORMAT TO THE CLOSED THAT I/2010 12/01/2010 11/23/2010 Potentially	T 0002	204 Minesica Wa	Il Cresification Format		Closed	44/47/2040	42/04/2010	11/22/2040		
FIOM: Webcol Construction LP David HUDdellold ID Lurner Construction Compan, Michelle Smith ADSWEIED BY Lurner Construction Comm Kovin Chu	From: Webcor	Construction I P	David Hungerford	To: Turner Construction Con	Ciuseu	Answered By		i i/23/2010		



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## 30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	estion:		
Reference Sheet: C-0001 issued 11/04/10; 301 Mission Interim Screen Wall - General Notes We are in the process of preparing submittals for this project. In doing so we would like to know what specification division format would be most appropriate for us to submit and track these project documents. Please provide us with the desired specification division format as soon as possible so that our submittals can be processed with the proper efficiency.					All submittals shall be subm under the new Screen Wall," created and is Transit Center (140). Within ( Wall," there is of available "s drawing sheet paragraph hea called out on. If there are mu suffix ".X" has added. For ex Reinforcing" s submittals fou "Concrete and Reinforcing." If there is no s simply the title drawing.	for the 301 Miss itted CSI Division, "3 that has been available in Co Building CSI Division "30 a list pec sections" th number (and ading as applica ultiple "spec sec been ample, "S-0001 hall contain all nd on sheet S-Co suffix, the descre of the	sion Interim Screation Interim Screation Interim Screation Interim Screation Interim Inter Interim Int	en Wall im or o Screen ne mittal is bet, the bading b is	
T-0004	Transbay Pro	ject Signs		Closed	12/01/2010	12/15/2010	12/03/2010	Potentia	llv 🗌
From: Webco	r Construction LP	David Hungerford	To: Turner Construction Com	pan Daphne Faulkner	Answered By	Transbay PMP	C Alfre	d Lau	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Spec Section	: 01 15 01				Graphics for F	Project ID Signs	specified per 01	15 01 for	
Webcor/Obay Spec 01 15 0 for four 4x8 p graphics/logo sign be locate	vashi is initiating project 1 and will require the arr ost mounted signs. Wha 's for sign fabrication an ed.	sign procurement per twork and locations at are required d where shall each			mayor and SF early January, issued prior to	CTA Board mer 2011. Informati	nbers are confirmed for for locations v	ned in will be	

T-0004.1

Transbay Project Signs

Closed

Answered By: Transbay PMPC

04/11/2011

04/01/2011

Alfred Lau

Potentially

04/12/2011

**Co-Author:** 

From: Webcor Construction LP

David Hungerford **To:** Turner Construction Compan Daphne Faulkner



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constructed in segments such that it can be pushed

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REQUES Reference Spec Ser	ST: ce: RFI T-0004 ction: 01 15 01		SUGGESTION:		ANSWER: Unfortunately seat (PJP sea may be at leas	Accept Sug that the name fr t) is still not cor st another mont	<b>gestion:</b> or one of the TJPA firmed at this time h before that can b	N Board a, and it	
Respons Signs sp soon as are confi locations	e to RFI T-0004 read "Graphics ecified per 01 15 01 will be issue the names for mayor and SFCT/ rmed in early January, 2011. Info will be issued prior to installatio	for Project ID ed to CMGC as A Board members ormation for n."			resolved. TJF resolved as ex Contractor imi anounced.	PA/PMPC will er pedited as posimediately after t	nsure this issue is sible and inform th the information is	e	
In a follor project si locations required shall eac	w up to this RFI, Webcor/Obaya ign procurement and will require for four 4x8 post mounted signs graphics/logo's for sign fabricatio h sign be located.	shi's is initiating the artwork and s. What are on and where							
						10/10/00 10	10/07/0010		
T-0005	Incorporation of	Irade Subcontractor Sci	hedule Submittals	Closed	12/03/2010	12/13/2010	12/07/2010	Potentia	lly
From: We	ebcor/Obayashi Joint Venture	Jim Tomaszewski	To: Turner Construction C	ompan Daphne Faulkner	Answered By	Transbay PMF	C Jim C	oughlin	
Co-Author:									
REQUES	ST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Spec See	ction: 01 13 10 & 01 1310				Spec Section	01 13 10, 1.2.B	will be revised to	elax	
For TJP/ Subcontr incorpora 13 10, 1. the speci Narrative narrative	A convenience W/O requests that ractor Schedules (Section 01 13 ated into the Monthly Schedule R 5.A) for the month following issu ified trade package. A detailed s e will be clearly identified and cor requirements of Section 01 13 1	tt Trade 10, 1.2.B) be Report (Section 01 ance of NTP for ection of the ntain all of the 10, 1.2.B.			first schedule award. Howev construction s 10, 1.5.D will requirements	submittal that is er, the 15 day r chedule will ren also be revised of the schedule	s due 15 days after equirement to sub nain. Spec Section to clarify the narrative	mit a 01 13	
T 0006	201 Mission Wall	Plawood Wall Parrier P	ronocol	Closed	12/08/2010	12/19/2010	40/47/2040	Detentio	u. 🗔
T-0006	301 WISSION Wall	Piywood wall Barrier Pi			12/08/2010	12/10/2010	12/17/2010	Potentia	
From: we	edcor Construction LP	David Hungerford	<b>10:</b> Turner Construction C	ompan Daphne Faulkner	Answered By	: Turner Constru	uction Comp Jack A	Adams	
Co-Autnor:									
REQUES	ST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Referenc During th	e: C-5000 and attached sketch Fremont Shoring/301 Mission	Wall			Plywood barrie barrier as agre Partners. The	er wall be erecte eed to in the me 8' tall plywood l	ed in lieu of the trit eeting with Millenni barrier wall shall be	on um e	

During the Fremont Shoring/301 Mission Wall Coordination Meeting on 12-7-10, it was proposed that a



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plywood barrier wall be erected in lieu of the triton barrier shown on sheet C-5000 of the 301 Mission Street Interim Screen Wall drawings. This plywood barrier will block the view of the 301 Mission tenants and will allow for the early demolition of the existing screen wall (prior to the construction of the new "interim" screen wall). By doing this it will enable the demolition contractor to start the removal of the deep footings earlier than currently scheduled.

In addition, the deletion of the triton barrier will provide approximately 2' of additional driveway width for 301 Mission. Please review the attached preliminary sketch of the above mentioned plywood barrier and provide engineering/architectural comments and mark ups. against the new screen wall at the end of each week to accommodate parking. While in position during working hours it will be mechanically fastened to the pavers and to the structure on the back side in order to prevent it from overturning. The exterior face of the wall will be painted "jet mist" to match the existing wall stone. Pilasters will also be painted on the plywood to match the stucco on the existing wall.

W-O will submit a dimensioned sketch drawing with plan, elevation and bracing details to be submitted by your subcontractor once he has completed design and before he begins construction.

T-0007 From: Webcor Cons	Field Order #2 - Issu	<b>ed for Programwide</b> Joanne Filipas	To: Turner Construction Compan Daph	Closed hne Faulkner	12/08/2010 Answered By	<b>12/18/2010</b> Transbay PMPC	<b>12/13/2010</b>	Potentially
Co-Author:								
REQUEST: According to today's with FO#W0-002 an not exclusively for th Field Order. Please	OAC meeting, the docu intended for project-wic e "BSE Contract" as sta confirm.	ments issued le review and ted in the	SUGGESTION:		ANSWER: All Field Order Representative are for the con CM/GC¿s resp the appropriate been re-issued appropriate la	Accept Sugg is issued by TJP/ e to CM/GC in ac nplete scope per consibility to direct trade subcontra d as WO-002R1 nguage to clarify	estion: A and TJPA cordance wit' formed by CN ct the require actors. WO-C on 09DEC20' this issue.	h 00 07 00 //GC. It is ments to )02 has 10 with

T-0008	Specification	Section 00 04 82 Cert. of B	idder Regarding Debarment and Suspensi Closed	12/08/2010 12/18/2010 12/10/2010 Potentially
From: Webcor	Construction LP	Joanne Filipas	To: Turner Construction Compan Daphne Faulkner	Answered By: Transbay PMPC Alfred Lau
Co-Author:				
REQUEST:			SUGGESTION:	ANSWER: Accept Suggestion:
Per the TJPA, of Bidder Rega	specification section 00 Irding Debarment and S	0 04 82, Certification Suspension, shall no		Section 00 04 82 ¿ Certification of Bidder Regarding Debarment and Suspension reflects the City



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longer be used. Please col If this is in fact true, please removed from the project s	nfirm. confirm this section will be pecifications.			procurement r funding arrang needed, Secti Regarding De Responsibility and 00 04 82 which is exper	requirement. W gement, meeting on 00 08 13/AP barment, Suspe Matters will be will be deleted p cted to be issue	ith the current pr g USDOT procur A - 25 ¿ Certifica ension, and Othe used in lieu of 00 per Field Order W d this week.	oject ement is ation r 0 04 82, /O-01,	
T-0009 301	Mission Wall Storage Location for P	anter Boxes of 301 Mission Wall	Closed	12/10/2010	12/20/2010	12/13/2010	Potentia	lly
From: Webcor Construction	LP David Hungerford	To: Turner Construction Compa	an Daphne Faulkner	Answered By	Transbay PMF	PC Alfre	ed Lau	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: 301 Mission Int Sheet C-1000 On sheet C-1000, there is a that says "(e) precast plant stored". Please designate a planter boxes.	erim Screen Wall Drawings a note for the (E) Planter boxes er box (typ) to be remove and a location for storing the (E)			The planter be of the final sci the final wall r complete, but Transbay Teri Millennium dio property. Please provid and inform the	oxes are to be s reen wall. The ti needs to be afte does not have to ninal is open fo d not agree to pu e for space on L	tored for re-use i ming of construc r the train box is to wait until the n r bus operations. roviding storage of Lot M to store the ordinaly	n front tion for ew on their boxes	
T-0009.1 301 From: Webcor Construction Co-Author: REQUEST: In Transworld's review of th at the 301 Mission Screen ' after close inspection of the were originally installed with	Mission Wall Storage Location for P         LP       David Hungerford         e existing planter box condition         Wall, Transworld's viewpoint         e site is that the planter boxes         the intent of being permenant	anter Boxes of 301 Mission Wall To: Turner Construction Compa SUGGESTION:	<b>Closed</b> an Daphne Faulkner	12/17/2010 Answered By ANSWER: The intent is t of replacing th Drawing C-20 existing irrigat	12/27/2010 Turner Constru Accept Sug o salvage and s nem with new or 00 Contractor is ion and electric:	12/29/2010 uction Comr Jack gestion: tore these boxes hes. Per Contract to cut and cap a al lines feeding p	Potentia Adams in lieu t all Janter	lly 🗌



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placement planter bo reinstalled skill and c boxes with since thes relocation, render the design is t with new c	t of these fixtures and there ixes were never intended to d/relocated after the initial in- are, Transworld intends to r n minimal damage. As a po se boxes do not appear to be , Transworld is concerned th ses boxes unuseful. Please to relocate these boxes in lie ones.	is concern that these be stallation. With all do relocate these planter oint of advisement, e designed for hat such action will confirm that the eu of replacing them			salvage preca	st planter boxes			
T-0010	EPA Permit N	umber		Closed	12/15/2010	12/25/2010	12/16/2010	Potential	ly 🗌
From: Web	bcor Construction LP	Joanne Filipas	To: Turner Construction Compa	an Daphne Faulkner	Answered By	Transbay Joint	Powers Au Edmo	ond Sum	
Co-Author:									
REQUES	T:		SUGGESTION:		ANSWER:	Accept Sug	estion:		
Please co CAR00019	nfirm the EPA permit numb 97558.	er is			Confirmed, the waste manifes CAR 0001975 Street, San Fr primary conta Manager, with	e EPA identifica sts for the Trans 58. The site ad ancisco, CA 94 ct is Edmond Su the Transbay J	tion number to us it Center constru- dress is 425 Miss 105. The genera im, Engineering oint Powers Auth	e on ction is sion ator and ority.	
T-0011	301 Mission W	Vall Waterproofing Submittal		Closed	12/21/2010	12/31/2010	12/29/2010	Potential	ly 🗌
From: Web	bcor Construction LP	David Hungerford	To: Turner Construction Compa	an Kevin Chiu	Answered By	Turner Constru	ction Comr Jack	Adams	
Co-Author:									
REQUES	T:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Regarding is still cov application a submitta be provide Please co waterproo and the ex method is	g the waterproofing submitta ered with pavers the existing n procedure is unknown to T al which matches the existin ed until Transworld knows a onfirm that it is acceptable to fing submittal until after the xisting waterproofing materia determined or provide the s	II, since the driveway g material and Fransworld. Therefore g condition can not dditional information. o defer the material is exposed al and application specific type of			Confirmed: W the waterproof exposed and t application me	ebcor-Obayashi fing submittal ur he existing wate ethod is determin	/Transworld can til after the mate erproofing materia ned.	defer rial is al and	



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Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
material and	application method require	ed.							
T-0012	301 Mission Wa	II - Requesting Specifica	tions for Utility Plug	Closed	12/21/2010	12/31/2010	01/04/2011	Potentia	lly
From: Webco	r Construction LP	David Hungerford	To: Turner Construction Co	ompan Kevin Chiu	Answered By	URS Corporatio	on David	Fyfe	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: 3	01 Mission Wall Drawings	sheet C-5000			Contractor to	determine dimer	nsions of tempora	ry plug	
There is not e and dimensic Please provid "Utility Plug"	enough information to dete ons for the utility plug at the de specifications and produ on sheet C-5000, sheet no	rmine the material 301 Mission Wall. Juct data for the te 5.			in the field and the requireme	nts specified in i	al appropriate to	meet -5000.	
T-0013	BSE IFC Table of	of Contents Discrepancy		Closed	01/05/2011	01/15/2011	01/11/2011	Potentia	lly
From: Webco	r Construction LP	Joanne Filipas	To: Turner Construction Co	ompan Daphne Faulkner	Answered By	Transbay PMP	C Alfred	l Lau	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Ref IFC TOC	dated 12/15/10 (attached)	)			1. 00 01 10 R	ev 3 and 00 01	15 were released	to	
We have reco	eived the revised Issued fo	or Construction			W/O on U/JAI	N2011, rectifying	) issues cited in t	NE KFI.	
(IFC) drawing The table of (	s and specifications for the contents has check marks	e BSE package. to indicate added			<ol> <li>Since it is of the revision</li> </ol>	[JPA/PMPC's o box for the tech	pinion that the for	matting	
specification	sections. Specification se	ction 02 41 19, Pile			adequate and	appropriate as i	s. Change to ma	tch the	
specification	was issued. The excavation	on and backfilll (31			should be form	nally requested	by W/O such that	ons	
23 10) sectio is next to it.	n was not re-issued, howe	ver, a check mark			Design Team and agreed to	and TJPA/PMP from a QA/QC	C could fully revie point of view.	w that	
Also, the revi be revised to	sion logs at the end of eac show only the revision nur	h section need to mber and dates.							
Please advise	e and re-issue.								
T-0014	TG03 BSE IFC D	Drawing Set		Closed	01/06/2011	01/16/2011	01/07/2011	Potentia	lly

From: Webcor/Obayashi Joint Venture Masashi Kojima

To: Turner Construction Compan Daphne Faulkner

Alfred Lau

Answered By: Transbay PMPC



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<b>Co-A</b> ι	ithor:								
	REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	We received multiple versions of PDF Dra A-0000, A-0005, and A-0010 (see the atta for TG03 IFC Drawing Set. Please confirm the following answer from on 1/5/2011. "Use the 1/3/2011 CD for the PDF files. CD for the DWG and DWF files. Disregar the 1/4/2011 CD."	awings G-0000, iched images) PMPC via email Use the 1/4/2011 rd the PDFs on	Confirm that "Use the 1/3/2011 CD Use the 1/4/2011 CD for the DWG and DWF files. Disregard 1/4/2011 CD."						
T-0015	301 Mission Wall	- Concrete Mix Design		Closed	01/07/2011	01/17/2011	01/13/2011	Potentia	lly
F	From: Webcor Construction LP	David Hungerford	To: Turner Construction Com	pan Kevin Chiu	Answered By	URS Corporati	on David	d Fyfe	
Co-Au	ithor:								
	REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Reference: Attached submittal package T review comments and letter from concrete	G1901-001 e supplier			Comply with c Reinforcing" N states:	ontract docume lote number 6 o	nts "Concrete an n Sheet S-0001,	d which	
	Per the comments received on the concre submitted in submittal package TG1901-0 confirm that the admixture for air entrainm compliant with ASTM C260.	ete mix design 101, please lent shall be			"Maximum wat by weight, slur water reducer	ter/cement ration np shall be two or superplastici	shall not exceed to six (2"-6") inch zer may be adde	l 0.45 nes. A d on	
	Transworld has been informed by their co that ASTM C260 requires a mix of 6% air such amounts of air entrainment are spec freeze/thaw areas for durability. The Bay / not considered a freeze/thaw area and the 6% air entrainment is not typically used. T supplier, Bode Concrete, has provided a le related to this specific issue.	ncrete supplier entrainment and ified only in Area is generally erefore a mix with 'he concrete etter from BASF			Air: 6% +/- 1-1	/2% for durabili	ty."	liaineu	
T 0046	DSE Current Tro	inhov Structural Drawinga		Classed	04/44/2014	04/24/2044	04/48/2044	Detentio	u., 🗔
1-0016	BSE - Current Tra	Maaaahi Kajima			01/14/2011 Answered By	01/24/2011	01/18/2011	Potentia	
ا دم-4י	thor: Balfour Beatty Infrastructure	Iviasasi ii Rujiiiid		pan Dapnne Faulkner	Answered by	-Adamson Asso	ciates, inc Geor	ge metzger	
00-AL									
	REQUEST:	loments of the	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	bracing, trestle and bridges, please provid to-date and reliable architectural and struct	le the most up- ctural drawings			See Issued for Buttress/Shori 12/10/10.	ng/Excavation of	locuments dated		



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(including ca of the train b center that h of work.	ad files). Also, drawings (inclu box and any other component has the potential to conflict wit	uding CAD files) of the transit h the BSE scope							
T-0017	BSE - CDSM Wall	Alignment		Closed	01/14/2011	01/24/2011	01/21/2011	Potential	lv 🗔
From: Webco	or/Obayashi Joint Venture	Masashi Kojima	To: Turner Construction Co	mpan Daphne Faulkner	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger	,
Co-Author: Balfou	r Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
CDSM shori to installation provided to u designing ar current align are finalized losing our bi	ng line alignment is expected n". We request the revised re us as soon as possible. We a nd issuing steel mill orders ba ment. If the revision comes a we risk missing our rolling so d date pricing.	to change "prior alignment be are currently sed on the after mill orders thedule thereby			Per TJPA'S di have been mo site. See the show the revis For your refer sketches that Trainbox struc issued for con are: SKS -000 Phase 1, SKS Phase 1, SKS Phase 1, SKS Phase 1, and Partial Plans F	dified at the So attached sketch ed shoring wall ence, see the at indicate the rev tural columns a struction in the 38 Foundation L - 0089 Foundati -0090 Foundati -0091 Foundati SKS-0092 Lowe Phase 1.	nbox plan and ex uthwest corner of o SKGT-0001-R1, alignment. ttached structural ised in-progress and shearwalls that future. These s evel - Zone 02 P ion Level - Zone 0 on Level - Zone 1 er Concourse Leve	tent the that at will be ketches lan 03 Plan 07 Plan 0 Plan o Plan rel -	
T-0017.1	BSE - CDSM Sout	h Wall Alignment Cons	truction Drawings	Closed	09/22/2011	10/02/2011	10/04/2011	Potential	ly 🗌
From: Webco	or Construction LP	Joanne Filipas	To: Turner Construction Co	mpan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference R	RFI T-0017 and attached Sket	ches			The sketches confirmed CD	attached to prev SM shoring alig	vious RFI's reflec nment.	t the	
Please confi approved wit notes indicat approval, pe future issuar	irm the attached sketches iss th CR T-005B are "For Const ting "draft in progress" and "n rmitting or construction" will b nce of these sheets.	ued and ruction" and the ot for regulatory se removed on a			Text indicating regulatory app not be transfe drawings.	"draft in progre roval, permitting rred to revised "	ess" and "not for g or construction" Issued for Const	' shall ruction''	
					Documents th	at are included	in Change Orders	s shall	



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					be considered a Contract Document.							
T-0018	BSE - Waler to CE	OSM Wall spacing		Closed	01/14/2011	01/24/2011	01/24/2011	Potential	lly 🗌			
From: Web	ocor/Obayashi Joint Venture	Masashi Kojima	To: Turner Construction Co	mpan Daphne Faulkner	Answered By	Adamson Ass	ociates. Inc Geor	rae Metzaer				
Co-Author: Balfe	our Beatty Infrastructure, Inc.	Ural Yal			-		,	<u> </u>				
REQUES	Γ:		SUGGESTION:		ANSWER:	Accept Sug	aestion:					
<ul> <li>Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal</li> <li>REQUEST:</li> <li>There may be a potential conflict with the walers and the train box reinforcement. Spec 31-55-00 allows 6" minimum spacing from CDSM Wall to face of waler, but based upon Balfour Beatty past experience with a very similar situation, it is felt that the 6" space is not sufficient because of the following:</li> <li>1. There does not appear to be enough room between the bottom of the waler and the CJ for a lap splice of the vertical reinforcing as depicted on sheet S -3201. Reference the attached drawing.</li> <li>2. The 6" gap is difficult to snake reinforcement through without damaging the waterproofing attached to the wall.</li> <li>BBI recommends making the space between the face of the CDSM wall and the waler equal to the wall thickness. This would eliminate conflicts with the rebar and walers, reduce reinforcement splicing and reinforcing congestion.</li> </ul>					Thornton Torr use mechanic interrupted by whaler is 6" m The proposed spacing conce Trainbox wall, Submit details ARUP Respo on the impact seeing more of system and a Adamson Ass be evaluated submitted. He attachments s will need to be system is rem	asetti Respons al couplers for t the whaler for t increase in whi ept is acceptabl pending Arup's s of revised sche nse: The desig of the Contract details of the sh ssociated propo- based on the lin owever, it appea shown in the dra e modified to all appropriately in- ioved.	e: It is permissib the vertical reinfo he condition whe DSM wall. aler to CDSM wale by TT regarding evaluation/comment of review. In team cannot co or's proposal, with oring wall internal sed details. Ise: The proposal nited documents ars that the bracin wing attached to ow for the waterp stalled as the Wa	le to rcement re Il g the nents. mment hout I bracing al cannot ng and this RFI roofing le				
Please ad current 6" increases.	vise whether to continue the de minimum space or advise if the	sign with the space										

-01	UI	9	

From: Webcor Construction LP

301 Mission Wall - Stone Panel Anchorage to 301 Mission's Screen Wall David Hungerford

Closed

To: Turner Construction Compan Kevin Chiu

Answered By: URS Corporation

David Fyfe

Co-Author:

#### REQUEST:

Reference: Attached pages from the 2008 Building Code

SUGGESTION:

ANSWER: Accept Suggestion: Proposed anchorage system can not be evaluated



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After removing stone panels in the demolition of the original 301 Mission Wall, the existing system of the stone panels does not utilize an anchoring system for mounting the stone panels to the wall. In addition, section 6.2.2.4 of the 2008 Building code does not specify mechanical fasteners for masonry less than 2-5/8" thick. The stone thickness used on the new wall will match the thickness of the existing, which is approx 10mm thick. Therefore, according to section 6.3 of the 2008 Building Code, the stone panel system for the Transbay Interim Screen Wall that should be used is the adhesion application.

Please confirm that Transworld can use the adhered method for the stone panels in lieu of mechanical fasteners.

prior to inspection of the retained stone sample.

Please provide retained samples of stone from the demolished 301 Mission Street Screen Wall in order to confirm dimensions of the existing stone and evaluate proposed anchorage system.

T-0019.1	301 Mission Wall	- Stone Panel Anchorage	e to 301 Mission's Screen Wall	Closed	02/07/2011 02/17/2011	02/10/2011 Potentially
From: Webcor Cons	truction LP	David Hungerford	To: Turner Construction Compan Kevin Chiu		Answered By: URS Corporat	ion David Fyfe
Co-Author:						
REQUEST:			SUGGESTION:		ANSWER: Accept Sug	gestion:
Reference: RFI T-0 RFI T-0019 request demolished 301 Mis verify thickness of t and confirm that a r to mount the stone. and pictures of that Please confirm that necessary and that an acceptable mean screen wall.	019 and attached pho ed samples of stone f ssion Street Screen W he stone that will be u nechanical system ha A sample has been s sample are attached f mechanically fastene a thin set adhesive ap ns to setting the stone	tos rom the 'all in order to sed on the wall, d not been used hown to URS to this RFI. d panels are not oplication will be on the new			Mechanical fastening of mator required. Location of face of s 6000 detail D is a contract req provide complete detailing of stone and how the location of achieved using thinset.	hing stone panels is not stone as shown on A- quirement. Please proposed attachment of the face of stone will be

T-0020 BSE - Demo Cont		itract Shoring Wall and Bracing		Closed	01/27/2011	02/07/2011	02/02/2011	Potentially
From: Webcor Construction L	.P I	Nhi Tran	To: Turner Construction Compan	Daphne Faulkner	Answered By:	Turner Constru	ction Comr Daph	ne Faulkner
Co-Author: Balfour Beatty Infrastru	icture, Inc. l	Ural Yal						



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	REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Reference Sheet D-: 01	2203 and Specificatio	n Section 02 41			1 - Approved Interim Shorir Constructwar	Submital #3120 vill be transmitte	00-01.3 - d through		
:	<ul> <li>The BSE contract drawings shows a temporary shoring and bracing that is installed by the demo contract and subsequently removed by the BSE contract. In order for Balfour Beatty to properly plan their work, they request the following information:</li> <li>1 - The shoring design drawings for the shoring wall on the east side of Fremont St. (shown on D-2203) that was submitted by the Demo Contractor.</li> </ul>					<ul> <li>2 - Wall is currently being constructed indicated on the approved shop drawi</li> <li>3 - Bracing drawings are not currently transmission. They will be transmitted available</li> </ul>				
:	east side of Fremon submitted by the De	t St. (shown on D-220 mo Contractor.	03) that was							
:	2 - As-built location	of the above mentione	ed shoring wall.							
	3 - Bracing drawings basement wall raker detail 1 of sheet D-5 5102	s and details that subr s that are schematica 100 and details 1 & 2	nitted for the ally shown on on sheet D-							
T-0021		BSE - Existing Un	known Concrete Wall		Closed	01/27/2011	02/07/2011	02/04/2011	Potentia	lly
F	From: Webcor Const	truction LP	Nhi Tran	To: Turner Construction Corr	pan Daphne Faulkner	Answered B	URS Corporati	on Dav	/id Fyfe	
Co-Au	thor: Balfour Beatty	Infrastructure, Inc.	Ural Yal							
	REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Reference Drawing 9 01	Set D and Specification	on Section 02 41			Full extent of confirmed.	unforeseen cond	crete foundation	n wall not	
	Based upon Balfour Beatty observations of the site, there appears to be a concrete wall approximately 18in wide that is outside of the existing terminal basement walls adjacent to the 301 Mission Property line and the east side of Fremont St. that is not shown on BSE contract drawings or the existing Terminal drawings.					Existing Term contractor (El of unforeseer removal as sl consistent wit caps/footings	inal and Ramps BI) has been dire foundation wall hown in contract h removal of adj ).	Demolition Pro ected to remove that are within documents to a acent structures	ject extents limits of a depth s (pile	
Does this wall continue around the entire perimeter of the Zone 4 basement?					Portion of unf Fremont Stre unforeseen co but that are to	oreseen concret et to remain in p oncrete foundatio premain in place	e foundation wa lace. Portions o on wall that are	all within f exposed mented		
	BSE NTP #02?					via as-builts.	As-builts will be	provided as con	npleted.	
	Please provide as-b	uilts of the wall location	on it is to remain.			Existence of s	similar walls in Z	one 2 and 3 not	t	



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Does a similar wall Zone 2 and 3?	exist around the baser	ment walls in			confirmed. Att Bridge, Depar Francisco Top (pages 27-32) time and have	ached San Frar tment of Trinagu ography Maps o are the best av been provided	ncisco-Oakland B Jlation and Surve dated August 193 ailable informatio for your informati	ay ys, San 34 in at this ion.	
T-0021.1	BSE - As Built Loc	cation of Concrete F	oundation Wall Along Fremont St.	Closed	03/01/2011	03/11/2011	03/15/2011	Potential	ly 🗌
From: Webcor Con	struction LP	Nhi Tran	To: Turner Construction Compan	Daphne Faulkner	Answered By	Turner Constru	ction Comr Jack	Adams	
Co-Author: Balfour Beatt	ty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference RFI #T-0021 (BBI #005) and Drawing Set D Please provide BBII with as-built locations of the unforeseen concrete foundation wall within Fremont Street which is to remain in place. Please also provide as-built locations for the soldier pile & tie back wall which parallels Fremont Street adjacent to the Buttress. BBII and BECHO want to confirm that there is enough room for their equipment to drill the Buttress Shafts along Fremont Street, and to identify any potential conflicts.					Portion of unfo Fremont Stree attached. The Bridge, Depar Francisco Top the best availa provided in RF existing concre the sidewalks factory/busine As-Built Fremo Bros/Malcolm	breseen concret et to remain in p attached San F tment of Trianguo ography Maps of able information FI T-0021 Rev.0 ete full basemen remaining from sses.	e foundation wall lace as shown or rancisco-Oakland ulation and Surve dated August 193 at this time were . This is believed nt wall extending pre Transbay wall installed by B pile and tie back	within d Bay bys, San d are to be under Evans wall is	
					also attached. previously trar Transmittal No	Survey points f nsmitted to Web p. 140-00650.	or the I-Beams w ocor-Obayashi	wall is /as	



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T-0022	Quality Managen	nent System - Org. Chart		Closed	01/28/2011	02/07/2011	02/08/2011	Potential	iy 🗌
From: Webcor Co	onstruction LP	Joanne Filipas	To: Turner Construction Compan	Daphne Faulkner	Answered By	Transbay PMP	C Jim (	Coughlin	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Ref - Attached O	rg. Chart			A revised PMPC organization chart is w				A for	
Please identify th the attached org. Management Sys	ne appropriate personne chart found the in the p stem.	el associated with program Quality			RFI. What W/ RFI. What W/ organization c (titles only) an	activity require Aart in the QMS d we have no int	is this information is deliberately gradient tention of changi	n? The eneric ng it.	
T-0023	Construction Ma	nager Quality Plan		Closed	01/31/2011	02/10/2011	02/07/2011	Potential	ly 🗌
From: Webcor/Ot	bayashi Joint Venture	Bob Garcia	To: Turner Construction Compan	Daphne Faulkner	Answered By	Turner Constru	ction Comr Jack	Adams	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Page 30 Paragra reference to "the quality plan". Ple Managers Quality	aph 8.5.5 of the QMS ma construction managem ease advise when the C y Plan for the TTC will b	anual makes ent consultant's onstruction be issued?			Contractually Construction M Quality Plan is	the Draft Qualit Aanager Oversig due 3/28/11.	ty Plan from CM0 ght is due 2/14/11	O 1. Final	
T-0024	Re-bracing for R	evised SW Corner Alignmen	t	Closed	02/02/2011	02/11/2011	02/11/2011	Potential	ly 🗌
From: Webcor Co	onstruction LP	Nhi Tran	To: Turner Construction Compan	Daphne Faulkner	Answered By	Adamson Asso	ciates, Inc Geor	ge Metzger	
Co-Author: Balfour Bea	atty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Reference Sheet	GT-1112 and Specifica	ation Section 31			ARUP Respor	ise:			
The response to	RFI T-0017 showed a r	evised CDSM wall			The use of rak the design crit	ers as rebracing eria specified in	g is acceptable p the construction	rovided	
the structural she implied that BBII designed so ther	alignment at the SW corner of zone 1 and the addition of the structural shear walls on wall X1-1. The RFI response implied that BBII's cross-lot bracing needed to be re-				documents is satisfied. This includes, but is not limited to, the bracing stiffness requirements. The				
columns and she and impacts as a using rakers for t	columns and shear walls. In order to minimize the cost and impacts as a result of this change, BBII suggests using rakers for the re-bracing in this corner				effective stiffness of the rakers will be affected by the stiffness of the permanent train box wall and				
The cross lot bra the initial excava the layout shown	cing would be installed tion (ref stage 10 on GT on the attached sketch	as specified for -1112) similar to #1.			mat slab and tiedowns. The response to this RFI must include input from Thornton Tomasetti regarding the impact on the				



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Then for the re-brac could be used in lo Would a design bac If not, BBII is availa ideas.	cing stage 12 and stag cations shown in attac sed on this concept be uble and willing to brain	ge 15 rakers hment sketch #2. e acceptable? hstorm additional		Status	<u>permanent structural elemen</u> As discussed at the Feb 9, Subcontractor - Design Tea may be possible to reduce rebracing if the permanent be built sequentially and the with the removal of struts. A meeting with Arup, the Con Tomasetti as this requires a proposed construction sequ				Proceed
					the permanen Thornton Tom the response our prior discu from TT is nee	t structural elen asetti (TT) Res by Arup, and fo ission with Arup eded.	nents. ponse: We have und this is consist b. No further com	review ent with ment	
T-0025	BSE - Request fo	r Recent Groundwater	Monitoring Data	Closed	02/02/2011	02/12/2011	02/11/2011	Potentia	lly
From: Webcor Cons	struction LP	Nhi Tran	To: Turner Construct	ion Compan Daphne Faulkner	Answered By	Adamson Ass	ociates, Inc Geor	ge Metzger	
Co-Author: Balfour Beatt	y Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Specific 7-2 (attached)	ation Section 31 55 00	) and GDR Table			See attached	T0025-SK01 fo	r groundwater rea	dings.	
The Project GDR ta reading in Feb of 2 readings taken with	able 7-2 shows the las 010. Can BBII receive in the last year?	t GW level a copy of any							
T-0026	301 Mission Wall	- Sample chip of paint	color for exposed concret	e Closed	02/07/2011	02/17/2011	02/10/2011	Potentia	ly
From: Webcor Cons Co-Author:	struction LP	David Hungerford	To: Turner Construct	ion Compan Kevin Chiu	Answered By	URS Corporat	ion David	l Fyfe	



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REQUEST: Reference: A- Note 6 on she concrete to m representative	-5000 note 6 eet A-5000 states, "Colo atch sample chip provid e". Please provide color	or of paint for exposed ded by TJPA sample chip per this	SUGGESTION:		ANSWER: Accept Suggestion: Omit note 6 on sheet A-5000. Color of paint for exposed concrete wall shall match color of paint provided on existing exposed planter boxes.						
note.											
T-0027	301 Mission S	Screen Wall - Dowels for Scr	een Wall	Closed	02/08/2011	02/18/2011	02/18/2011	Potentia	lly		
Co-Author:		David Hungenord	To. Turner Construction Comp	an Kevin Chiu	Answered by	UKS Corporatio	on David	гује			
Co-Author: REQUEST: Reference: Attached pictures Upon laying out the dowel embedment locations for the new concrete wall, the locations are very close to the edge of the existing manholes and vault lids. Transworld is concerned that the location of the doweling is too close to these existing items and does not believe it to be the intent. Please see attached pictures showing the areas of concern. Please respond ASAP with direction on where to place the dowels, as Transworld has no slack in the schedule to accomodate any stoppage of work.			SUGGESTION:	ANSWER: Accept Suggestion: The final condition for the dowels drilled into the 301 Mission existing basement perimeter wall is shown on attached sketch. Dowels shall be drilled 6 inches from exterior face of existing basement perimeter wall. Verify location of existing basement perimeter wall prior to drilling. These dowels remain within 1 inch of centerline of the new concrete wall. See attached RFI coordination sketch.							
T-0027.1	301 Mission S	Screen Wall - Dowels for Co	ncrete Wall: Layout Acceptance	Closed	03/29/2011	04/08/2011	04/05/2011	Potentia	ily		
From: Webcor	Construction LP	David Hungerford	To: Turner Construction Comp	an Daphne Faulkner	Answered By	URS Corporation	on David	i Fyfe			
Co-Author:											
REQUEST: Reference: RFI T-0027 Please confirm that per site walk on 03/22/11 with Danny Lo and Erik Liu of Transworld, David Hungerford with Webcor-Obayashi, and David Fyfe and Christine Baudier of URS, that the layout of the core holes for the #8 dowels in the concrete wall are acceptable. RFI T-0027 included a response sketch directing dowels to be in line and set 6" from the south face of the existing			SUGGESTION:	ANSWER:       Accept Suggestion:         It was verified in the field that #8 dowels were drilled approximately 6" from the exterior face of the existing vault wall and that #8 dowels will have a minimum 2" concrete cover.         The layout of the #8 dowels is acceptable.							


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structures, new concrete wall to be shifted south so

that the south face of new concrete wall is flush with

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wall below. which was p exactly strai each other a of the south Please conf is acceptabl immediate r	Due to the existing condition boured aginst a shoring wall ight, the dowels are laid out and therefore vary in dimen- i face of the existing basem irm, as it is understood, tha le. Dowels are being set in e response is requested.	n of the wall below, l and therefore not to be in line with sion measured off ent wall below. It the existing layout epoxy today, so an							
T-0028	BSE - Bracing S	Stiffness Calculation Conf	irmation	Closed	02/08/2011	02/18/2011	02/09/2011	Potential	ly 🗌
From: Webc	or Construction LP	Nhi Tran	To: Turner Construction	Compan Daphne Faulkner	Answered By	Arup	Kevi	n Clinch	
Co-Author: Balfou	ur Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference S sample calc The respons	Specification Section 31 55 culations se to pre-bid RFI #TG0300-	00 and attached 058 provided an			The methodol determining th consistent witl #TG0300-058	ogy shown in th le internal bracil n that shown in	ese calculations ng system stiffne response to pre-l	for ss is bid RFI	
system. Att calculation f bracing syst	tached is BBII's designer's s for stiffness for the propose tem.	ample "template" d waler and strut			Complete deta not included ir conclude that internal bracin	ails of the intern the RFI. It is th all elements aff g system have	al bracing systen herefore not poss ecting the stiffne been considered	n were ible to ss of the and	
BBII reques interpretatio is correct, p calculations	its a confirmation that the do n and use of the provided s rior to progressing further s and procuring steel bracing	esigner's stiffness calculation ubmittal g members.			These calcula conformance	e analysis. tions have not b with other desig	peen reviewed for n criteria. A more	Ģ	
Additionally RFI.	, BBII requests an expedited	d response to this			calculations a	re issued as a s	ubmittal.		
T-0029	301 Mission Sc	reen Wall - Sub Surface S	tructure Conflict with New V	Vall Location Closed	02/09/2011	02/19/2011	02/18/2011	Potential	ly 🗌
From: Webc	or Construction LP	David Hungerford	To: Turner Construction	Compan Kevin Chiu	Answered By	URS Corporati	on Davi	d Fyfe	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference:	Photograph attachments 1-	8			To accommod	late unforeseen	location of existi	ng	

In laying out the location of the new concrete wall,



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Transworld has determined that the new concrete wall will extend over existing sub-surface structures, which is not per the contract documents. Please reference attached photos.

First, there are two manhole covers that are incorporated in concrete rings. These rings conflict with the location of the new wall and are included in photographed attachments. Due to the size of these concrete rings, a portion of the ring will be buried by the new wall. Second, the steel frame of the existing electrical vault doors is of similar condition as the manhole covers; this condition can also be seen in the photographed attachments.

Please confirm that Transworld is to proceed with the plan location of the new concrete wall which will cover and bury a portin of these existing sub-surface structures. the exterior face of the existing 301 Mission street basement perimeter wall.

Interfering regions of existing sub-surface structures (manhole rings and vault sides) at the base of new concrete wall shall be incorporated into new concrete wall. All surfaces of interfering concrete regions to be incorporated into new concrete wall shall be prepared as bonded construction joints. Verify functioning of manhole and vault lids/openings are not obstructed by new concrete.

Contractor to provide chalk line at updated south and north faces of new concrete wall for verification of updated location in field by TJPA representative prior to construction of new concrete wall.

See attached RFI coordination sketch.



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T-0030	301 Mission S	creen Wall - Detail required	for concrete sleeve installation	Closed	02/09/2011	02/19/2011	02/18/2011	Potential	y 🗌
From: Webcor Cons	struction LP	David Hungerford	To: Turner Construction Compan	Kevin Chiu	Answered By	URS Corporati	on Davi	d Fyfe	
Co-Author:									
REQUEST: Reference: Attache	ed 1/C-5001 and pl	noto	SUGGESTION:		ANSWER: Per contract of	Accept Sug	gestion:		
The existing conditi consistent with the indicates that the existence concrete slab, to we embedment. Howev photograph in attac cover is actually a p assembly, and wrap provide a new detai the required concre the existing waterpu	ion of the manhole contract documen xisting manhole si hich is to be drilled ver, please refer to chment 1 which sho part of a subsurfac pped with waterpro il and instructions ate sleeve and a de roofing.	e covers are not ts. Detail 1/C - 5001 ts above an existing d into with 1 inch o the attached ows the manhole ce concrete ring pofing. Please for the installation of etail for penetrating			Remove man Retain existin Dowel into exi #3 hoops @ 1 Prepare existi into new sleev Cast in place manhole (con Provide Kade	hole lid; g concrete and s isting concrete c 10" O.C.; ng concrete surf ve as bonded co 6" thick concrete crete and steel c e SS 1/8" circula	steel collar/frame collar/frame (1" m faces to be incor nstruction joints; e sleeve directly collar/frame); ar grate satin finis	; ax) with porated over sh.	
T-0030.1	301 Mission S	creen Wall - Concrete sleev	e installation	Closed	02/24/2011	03/06/2011	03/03/2011	Potential	У
From: Webcor Cons	struction LP	David Hungerford	To: Turner Construction Compan	Daphne Faulkner	Answered By	URS Corporati	on Davi	d Fyfe	
Co-Author:									
REQUEST: Reference: RFI T-0 The final measurem collar/frame at the e wall is (+/-) 4-3/4", t 3/4" to 1", results in to be 4" thick at the RFI T-0030 notes th clarify if the 4" thick	0030 nent from the edge existing manholes this dimension less the new cast in p point closest to th hat the sleeve is to cness is acceptable	e of the steel to the face of new s form material (+/-) lace concrete sleeve he wall . Response to b be 6" thick. Please e.	SUGGESTION:		ANSWER: 4" minimum th concrete slee wall. Remainin not in conflict thick per cont Contractor sh between face face of new C See attached	Accept Sug hickness accept ve is in conflict v ng portions of ne with new interim ract documents. all provide 3/8" e of new interim s IP concrete slee coordination ske	gestion: able only where n with new interim s aw CIP concrete a screen wall sha expansion joint m creen wall and o eve. etch.	new CIP screen sleeve II be 6" naterial utside	
T-0031	301 Mission S	Screen Wall - In-ground light	ing	Closed	02/09/2011	02/19/2011	02/21/2011	Potential	у 🗌

Co-Author:



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<b>REQUEST:</b> Reference: N The new in-g note 10 on pa the contract of construction. 1) that the ne model and si The issue he than can be a new construct	ote 10 on C-2000 round lighting as anticipa age C - 2000 must be su lesign cannot be accom The contract design req w lighting match the exis ze. re is that the existing ligh accommodated within the tion.	ated in plans and bstituted because modated in the new uires: sting with the same at fixtures are larger e thickness of the	SUGGESTION:       ANSWER:       Access         Additional information understand/interpret eresponse to this RFI.       Please provide all ava conditions that pertain limited to the following         r       1. type, model, size ar fixtures;       2. type and size of exi conduit/conductor;         3. sketch illustrating a					Accept Suggestion: ation is required to pret existing conditions and facilitate a RFI. Il available information on existing ertain to this RFI, including but not owing; ize and manufacturer of existing light of existing electrical or;				
2) that the ex lights be disc lights. The issue he light fixtures be removed. there will be new lighting p Please provid ground lightin	isting electrical lines ser onnected so that it is rec re is that the electrical lin are embedded in the con Upon removal of the exis no existing electrical lines ower. le a new detail and instru- g.	vicing the existing connected to the new hes for the existing acrete curb that is to sting concrete curb, s to reconnect for the uctions for the in-			<ol> <li>type and size of existing electrical conduit/conductor;</li> <li>sketch illustrating alignment of existing electrical conduit/conductor, including junction boxes, termination points and power source; and,</li> <li>sketch illustrating thickness of existing/new construction where new lights are to be set/placed.</li> </ol>							
T 0021 1	201 Mission W	All in ground lighting		Closed	02/21/2011	04/10/2011	04/06/2011	Potontia				
From: Webco	r Construction LP	David Hungerford	To: Turner Construction C	Ciosed	Answered By	URS Corporati	on Davi	d Evfo				
Co-Author:		2 and nangonola			/		on Davi					
REQUEST			SUGGESTION			Accent Sug	aestion:					
Reference: A	ttached photos and sket	ch			We note that t	he Contractor h	as installed new					
Response to	Response to RFI T-0031 requested additional information.				electrical conc concrete wall.	electrical conduit and outlet boxes within the new concrete wall.						
1. See the about the ligh 2. The exi 3. Attache approximate There is one protruding fro The electrica	<ol> <li>See the attached pictures for the information known about the lights that were removed.</li> <li>The existing conduit is 3/4"</li> <li>Attached is a sketch and a photo showing the approximate location of the existing conduit.</li> </ol> There is one existing conduit on the south side of the wall protruding from the soil coming from the basement wall. The electrical conduit is approximately 6 feet east from the				To document verify conform standards, Co illustrating full alignment, con outlet boxes, e between exist and connectio lights/fixtures	the as-built con- ance with all ap ntractor shall su routing of all co- nduit material ty etc. Drawings sh ing electrical line n between new	ditions of all work plicable codes a ubmit drawing(s) induit(s), includin pe, couplings/fitt nall detail the cor e and new electri electrical line an	c and to nd g ings, inection ical line d new				



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western transformer vault vent opening. Attached you can see the pictures of this conduit that is currently sticking out below the scaffolding planking.

4. Please advise the location and mounting details for the new lights.

Drawings shall be sufficiently detailed to document all electrical work is in conformance with all applicable codes and standards, and shall be sufficient for permitting and/or inspection of electrical work.

All conduit and/or boxes shall be set so as to provide minimum 1; clear from all rebar, anchor bolts or other embedded structural steel items. Outlet boxes located in new concrete wall shall be fully coordinated for direct connection with the new light(s)/fixture(s).

It is our understanding that the existing 301 Mission driveway/roadway section (approximately 3¿ paver over 1¿ sand bed over 4¿ to 8¿ concrete topping slab) does not allow use of new lights/fixtures matching original lights/fixtures. It is recommended use of the Ligman Paragon square 186mm (50338-N-35) light/fixture, or approved equal, in lieu of the original light/fixture (Hydrel M9410). The new Ligman Paragon square light fixture (or equivalent fixture) shall be placed adjacent to new concrete wall and shall be mounted exposed above ground (not in ground) with the base of new light fixture located aligned to top of paver(s). See attached coordination sketch.

Please confirm the use of Ligman Paragon square 186mm (50338-N-35) light(s)/fixture(s) can be fully coordinated with all work.

See attached product data for Ligman Paragon square 186mm (50338-N-35) light/fixture.

In addition, in response to item 2 of RFI No.T-0031, Contractor please coordinate with 301 Mission Building management to ensure that the new light shall be connected correctly to the existing power supply.

T-0031.2	301 Mission Wall - L	ight Fixtures	Closed	06/29/2011	07/09/2011	07/13/2011	Potentially
From: Webcor Constru	iction LP	David Hungerford	To: Turner Construction Compan Daphne Faulkner	Answered By:	URS Corporatio	on David	Fyfe



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Co-Author:							
<b>ECONUTION</b> <b>REQUEST:</b> Reference: Attached light specs Per field conversations with 301 Mission staff, t fixture proposed in response to RFI T-0031.1 is acceptable. Webcor-Obayashi has coordinated Mission management personnel and the lighting attachment to this RFI has been requested by 3 Mission. Confirm that the attached light specs a installed at the stucco slot locations.	SUGGESTION:     An and a second		<ul> <li>ANSWER:</li> <li>URS provided Obayashi on Mission mana lighting attack similar to one URS (Allscape metal halide I was selected qualities and comparable t M9410, 35 wa</li> <li>It is noted tha Allscape BL-8 halide lamp a provide photo amperage no is also noted is 14.5" wide, stucco slot(s)</li> <li>Prior to order attachment to volt metal halide I following;</li> <li>301 Mission b is to be used required by th metal halide I 14.5" width of stucco slot(s) specify 14" w</li> </ul>	Accept Sug d four lighting op April 22, 2011 to agement person ment to this RF of the four light be BL-80). BL-80 model (w amp and prisma by URS becaus operating electri o the original light atts/277 volt, me at the lighting att 31 model (with 1 and prismatic tem ometric qualities t similar to the o that the Allscape which is greate o specified in the and/or installatio this RFI (Allscap is sufficient to h he Allscape BL-8 amp(s); f the BL-81 lumin ic onstructed, no ide stucco slot(s qualities of 150 w	gestion:	01 the is ed by t, s lens) metric el FI, netal may strical irre. It inaire n tts. tt/277 e ed that in the ents ting by 301	

From: Webcor Construction LP

Closed

 02/09/2011
 02/19/2011
 02/23/2011
 Potentially

 Answered By: URS Corporation
 David Fyfe

David Hungerford To: Turner Construction Compan Kevin Chiu



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Co-Author:							
REQUEST:		SUGGESTION:	ANSWER:	Accept Sug	gestion:		
Reference: Att	tached photo		RESPONSE	02/16/2011 per	David Fyfe		
See attached construction ir 2008, and sho connected to e wall. These tie need to be cut others, as this contract. Pleas	picture of 301 Mission Screen Wall a progress. This picture was taken Nov of bws a lateral support tie beam below grade each vertical steel member of the screen a beams are not shown on the plans and t so that the existing wall can be removed by scope is below and out of Transworld's se provide details for this condition.		Tie beams sh existing 301 f Restoration of Detail 1 on at 3.13 (rev 6, 0 information a information.  RESPONSE Pending app	Tie beams shall be saw cut cleanly at exterior face of existing 301 Mission street basement perimeter wall.         Restoration of waterproofing is required.         Detail 1 on attached 301 Mission Street drawing S3-3.13 (rev 6, 04/04/2008) is the best available information at this time and has been provided for you information.			
T-0033 From: Webcor	301 Mission Screen Wall - Concrete Dem Construction LP David Hungerford	o Scope of Work Clarification Closed	02/14/2011	02/24/2011	02/25/2011	Potentia	ly
Co-Author:				J. Turner Constr		/ dumo	
REQUEST		SUGGESTION	ANSWER	Accent Sug	aestion:		
Reference: att	ached text document	00002011011	Response fro	om David Fyfe or	n 2/23/11:		
Please see att Transworld's r	tached text document explaining equest.		Removal of e documents, s	element is in sco see detail B on s	pe per contract heet C-5000.		
Transworld Cc Construction, determination and discussion contention and work scope do concrete struc clarity see Ext Attached pleas and D.	onstruction requests that TJPA, Turner and Webcor-Obayashi make a final as to work scope based on the documents ns provided herein. It is Transworld's d belief that the 301 Mission wall relocation bes not require Transworld to remove the (e) thure below the dark gray colored curb. For hibit D, page 1 and page 2. se see text explanation and Exhibits A, B, C,		Response fro 1. Demolition demolished b 5000 Detail A 2. Existing "C sketch C-500 is to be remo including con 3. Demolition severed by E	om John Adams scope Utility Va by Evans Bros se concrete Slab" in 0 Detail B - this ved by Transwo crete as shown. scope "unfores vans Bros see a	on 2/24/11: ault "foundation" t ee attached sketo n accord with atta element is in sco rld per C-5000 D een grade beam" attached sketch C	o be ch C- ched ope and etail B to be c-5000	



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Number	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
			Detail B.					
T-0034	301 Mission Screen Wall - Change of w	alkway from original logistics	Closed	02/14/2011	02/24/2011	02/22/2011	Potentia	lly 🗌
From: Webcor C	Construction LP David Hungerford	To: Turner Construction Comp	oan Daphne Faulkner	Answered By	URS Corporat	ion David	d Fyfe	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
The conditions from what Tran- entire logistical The original log documents, sho original existing been removed a Please see all f this RFI. This c ability to execut available works South side finis modification to the parking/driv barricaded area developed beca to further demo that currently e: and remaining v additional demo Transworld Cor accommodatior parking/drivewa temporary barri	of the worksite have changed significantly sworld originally bid and have changed the plan for the execution of this contract ow a walkway along the South side of the g screen wall. Now, the entire walkway has and nothing exists except an open pit. four pages of Exhibit A that is attached to hange of condition affects Transworld's te the contract work. There is no longer space to erect the structural steel and the shes. This condition now requires a our contract such that Transworld may use reway on the North side of current a. The exact impact is not yet fully ause there are ongoing discussions related lition and removal of concrete structures xist for our construction work. If the current working areas are further deteriorated by polition, even greater challenges will arise. hstruction requests reasonable ns for access to the worksite from the ay that is North of the currently erected icade wall.			<ul> <li>301 Mission S building tenar times.</li> <li>Per 2/17/11 fi approved by 3 advance, one used short ten</li> <li>Contractor sh to the TJPA F property owne driveway. At a the following;</li> <li>scheduled d</li> <li>traffic contro driveway to be barricades, fla</li> <li>extent of ten restoration.</li> <li>Contractor sh measures (sig during use of Representativo owner.</li> <li>Contractor sh end of each d</li> </ul>	eld meeting, if control of the second structure of the second structure and str	shall remain open r through traffic at coordinated with a set property owne y may be tempora- for deliveries. submit a Logistics and 301 Mission S d approval prior to stics plan shall inco- on of driveway use ccluding extent of d/required signs, d, le wall dismantling eccessary traffic coo- fencing, flagmen, acted by the TJPA ission Street prop orary barricade w l.	to t all nd r in arily s Plan itreet use of clude e; g and ontrol , etc.) all at	

T-0035

#### **BSE - Additional Trainbox Drawings**

#### Closed

02/16/2011 02/26/2011 02/22/2011 Potentially

From: Webcor Construction LP

Nhi Tran

To: Turner Construction Compan Daphne Faulkner

Answered By: Adamson Associates, Inc George Metzger



CUT # - DESCRIPTION

Webcor/Obayashi Joint Venture

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Co-Author: Balfour Beatty	Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	estion:		
Reference Sheet S- 00 BBII believes that th drawings of the Train bracing system. BBI A1-6000 through A1 dimensions of struct ramps and etc.). The has is on S-3201 an along C line, howeve table. BBII is requesting ac elevation drawings, - A dimensioned lon trainbox, showing th beams. - Full cross section of non typical sections. points of concrete. - Detailed sections of an on ground floor slab: BBII would prefer C/ hardcopies will work	a201 and Specification ey do not have enough n Box to properly desig I states that the archit -6231 lack detail regar ural components (i.e. e only structural sectio d there appears to be er that beam is not ide dditional structural sec specifically: gitudinal elevation of th e most current location of typical trainbox as w Shown any cross slop of the SW corner show y ramps or locations w s. AD files if possible, hor	h Section 31 55 h detailed gn a conflict-free ectural sections rding beams, walls, n BBII currently a beam running ntified in the tion and he entire n and depths of rell as any other es, high and low ing dimensions where there are			The design of shoring wall is 50% Construc an in-progress was issued to W/O for inform permanent stru- reference only shoring struts Computer Moo Model provide: receive in the above.	ANSWER:       Accept Suggestion:         Design of the permanent structure inside the shoring wall is in progress and subject to change, At 50% Construction Documents on December 20, 2010 an in-progress 3D REVIT Program Computer Model with W/O for informational purposes on the progress of the permanent structure design. We suggest that for reference only, W/O review the possible locations for shoring struts with the in-progress 3D REVIT Program Computer Model. This 3D REVIT Program Computer Model provides more information than you would receive in the limited number of sections requested above.			
T-0035.1	BSE - Request Str	ucture Section Drawings		Closed	03/15/2011	03/25/2011	03/23/2011	Potential	ly 🗌
From: Webcor Const	ruction LP	Nhi Tran	To: Turner Construction Compa	n Daphne Faulkner	Answered By	Adamson Asso	ciates, Inc Georg	ge Metzger	-
Co-Author: Balfour Beatty	Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference attached	sheet				See the attach	ed in-progress	design document	s at the	
As discussed in 03/0 AAI said they would structure if BBII inde is a list and the attac these taken	09/11 TG03 Design Te provide sections of the ntified where to take to ched shows where BB	eam meeting, e trainbox he cuts. Below II would like			provided as re determining po and is not issu	ference informa ossible locations ed as a constru	tion for use in for the shoring s ction document.	struts	



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1.A - Full length section along Grid A 1.E - Full length section along Grid E 1.J - Full length section along Grid J unfolded along wall alignment 2 - Full width section at Column Line 3 3 - Full width section at Column Line 7 4 - Full width section at Column Line 10.5 5 - Full width section at Column Line 18 (CL First St) 6 - Full width section at Column Line 23 7 - Full width section at Column Line 26 (CL Freemont St) 8 - Full width section at Column Line 30 9 - Full width section at Column Line 34.5 (Beale St.)

- 10 Section at "flare?"
- 11 Section at "flare?"

Please provide either electronic 2D CAD files at for each section where BBII can dimension, or hardcopy drawings that are fully dimensioned.

T-0036	BSE - Bracing Load	Discrepancy		Closed	02/16/2011	02/26/2011	02/18/2011	Potentially		
From: Webco	Construction LP	Nhi Tran	To: Turner Construction Compan Dap	ohne Faulkner	Answered By: Adamson Associates, Inc George Metzger					
Co-Author: Balfour	Beatty Infrastructure, Inc.	Ural Yal								
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	estion:			
Reference Sheet GT-1110, Specification Section 31 55 00. and attached memo					See the attache	ed reply.				
Please see th engineer, PB PB&A are fin the bracing lo compared to profile" earth	e attached memo from BBII's &A. ding more than a slight discrep ads given in the tables of GT- loads they calculated using the pressured diagram as shown o	bracing design pancy between 1110 when e ''design on the same			Attached Respo Clinch The internal bra satisfy the crite including the st 1110.	acing system sh ria specified in t rut loads given i	P - 02/18/2011 K all be designed t he contract docu n the tables on 0	evin o iments GT-		
sheet. As required b design with th feels it is prud	y note 6 on GT-1110, BBII is c le forces given in the tables, h lent to note the variances.	continuing their owever BBII			Our review of the was limited to the Contractor is a been reviewed documents. A r undertaken whe	ne calculations i hat necessary to uestions. The ca for conformance nore complete r en the calculation	ncluded with the o understand the alculations have e with the contra- review will be ons are issued as	RFI not ct		



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BBII requests of tables of GT-17	confirmation that the forces 110 are correct.	s given in the			submittal. Add or a meeting v required for us facilitate our re	litional calculation vith the Contrac s to interpret the eview.	on documentatior tor¿s engineer wi software output a	n and / II be and to	
T-0037	BSE - Request fo	r Utility As-Builts		Closed	02/17/2011	02/28/2011	03/01/2011	Potentia	ly 🗌
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction Comp	oan Daphne Faulkner	Answered By	AECOM Techr	nical Servic∈Eric 2	Zagol	
Co-Author: Balfour B	Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference She	ets U-2021 to U-2023, U-4	4005			Phase I electr	ical ducts as sh	own on the AECC	M	
BBII is request	BBII is requesting as-built data for the phase 1 electrical				Relocation of 2020, U-2021.	Utilities Project . U-2022 and U-	(RUP) Plans shee 2023 on First and	ets U- I	
ductbanks at F	irst St. and Fremont St. B	BII is particularly			Fremont stree	ts have been co	onstructed or will	be	
and depths of t	the ductbank where they in	ntersect the			information fro	om PG&E. AECC	nas requested	as-built structed	
CDSM wall as	shown on utility drawings l	U-2021 through			to date and wi	Il provide upon	receipt.		
0-2023					Sections X an	d Y on RUP she	et U-4005 shows	utilities	
Additionally, Bl	BII would like to receive me	ore info on the			in the propose	ed final locations	following constru	uction of	
- What materia	I are these ducts and are t	they encased?			corridors on F	irst and Fremon	t streets. Not all	utilities	
- Can the space	ing shown on U-4005 be s	hifted to			shown need to	be incorporate	d and supported	by the	
accommodate	bhuge girder spacing?				interim bridge	Structures on F		Slieels.	
					Only PG&E ar	nd Verizon Phas	e II utilities need	to be	
					structure. The	e remaining utili	ties i.e. AT&T, TC	G and	
					PG&E "NIP" (	PG&E New Bus	hiness) indicated	in on of	
					the Transit Ce	enter substructu	e and permanent	t utility	
					corridors.				
					PG&E has pro	posed steel co	nduit for the ducts	to be	
					supported by the supported by the supported by the support of the	the interim bridg PVC conduits.	e structures. Ve	rizon	
					Bropood mar	difications to util	ity alignments (b	rizontol	
					and vertical) a	and conduit conf	iguration may be	JUZUIII	
					acceptable up	on review and a	cceptance by AE	COM	
					coordination n	neeting betweer	BBII, AECOM a	nd the	



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					private utilities	s to help facilitat	e the interim brid	ge and	
					utilities suppo	rt design.		0	
T-0037.1	BSE - Request for	r Utility As-Builts		Closed	03/24/2011	04/04/2011	04/13/2011	Potential	ly 🗌
From: Webcor Co	onstruction LP	Nhi Tran	To: Turner Construction Corr	npan Daphne Faulkner	Answered By	AECOM Techr	nical Service Eric 2	Zagol	
Co-Author: Balfour Be	atty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference RFI # 2022 and U-2023	T-0037 and Sheets U-20	20, U-2021, U-			PG&E's subst Streets is sch	ructure work on eduled to be co	First and Fremo mplete by April 28	nt 8, 2011.	
Please provide E on what has bee response to RFI	BI with as-built informati n constructed to date, as #T-0037	on from PG&E mentioned in the			completion of	their work.	awings following		
T-0037.2	BSE - Request for	r Utility As-Builts		Closed	03/24/2011	04/28/2011	04/25/2011	Potential	ly 🗌
From: Webcor Co	onstruction LP	Nhi Tran	To: Turner Construction Corr	pan Daphne Faulkner	Answered By	:Turner Constru	uction Comr Daph	nne Faulkner	
Co-Author: Balfour Be	atty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference RFI #	T-0037.1				Please see re	sponse to RFI #	T0037.1. Asbuilt	s will be	
Please provide E on what has bee response to RFI	BBI with as-built information constructed to date, as #T-0037 and RFI#T-003	on from PG&E mentioned in the 7.1			available once being denoted require an ope asbuilts.	a received from d in the open iss en RFI to track t	PGE. This issue ues log and does he issuance of th	nas s not ie	
T-0038	BSE - Shear Wall	s for Rebracing		Closed	02/17/2011	02/27/2011	02/22/2011	Potential	
From: Webcor Co	onstruction LP	Nhi Tran	To: Turner Construction Corr	pan Daphne Faulkner	Answered By	Adamson Asso	ciates. Inc. Geor	ae Metzaer	.,
Co-Author: Balfour Be	atty Infrastructure, Inc.	Ural Yal						3	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference respo attached drawing	onse to RFI #T-0024, She g	et GT-1112, and			Thornton Tom	asetti Response	e:		



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The resp place dur Team Co shear wa Attached and strut eliminate Is this se	onse to RFI #T-0024 noted of ing the TG03 BSE Trade Su ordination Meeting, about ut Il as re-bracing during the tra- is a sketch showing a stage removal sequence that BBII the need for re-bracing alon guence acceptable?	discussions that took bcontractor - Design ilizing the permanent ain box build out. d wall construction believes would g the SW Wall.			The conditions depicted in Stage 12 & 13 of sketch GT-1112 for shearwalls to be used as re-brace elements will cause overstressing of the mat slab and excessive movement of the Trainbox wall, and therefore, is not acceptable. Note however, that once the Lower Concourse slab is constructed and develops the design strength, the upper portion of the shearwall above the Lower Concourse slab can be used as re-braces. See attached SKS-0101 that illustrates the load path of the shearwall.
					ARUP Response:
					The use of the permanent concrete shearwalls as bracing is acceptable provided the design criteria specified in the construction documents is satisfied. This includes, but is not limited to, the bracing stiffness requirements. The effective stiffness of the shear walls will be affected by the stiffness of the permanent train box wall and mat slab and tiedowns.
					The response to this RFI must include input from Thornton Tomasetti regarding the impact on the permanent structural elements.
T-0039	301 Mission S	icreen Wall - Base Plate Dim	ensions	Closed	02/17/2011 02/27/2011 02/23/2011 Potentially
From: We	bcor Construction LP	David Hungerford	To: Turner Construction Con	npan Daphne Faulkner	Answered By:URS Corporation David Evfe
Co-Author:					
REQUES	ST:		SUGGESTION:		ANSWER: Accept Suggestion:
Referenc	e: 2/S-5000, D/S-5000, attac	ched sketches			Neither options A nor B are acceptable for the anchor
See the 3 details 2 plate with plan belo proposed acceptab	301 Mission Screen Wall dra and D/S-5000. Is it acceptab a dimensions 14" x 14", in lie w the HSS 10" x 10"? See a I anchor bolt mounting option le, please choose the detail	wings, specifically ble to use a base u of the 14" x 18" per ttached sketches of hs A and B. If you prefer.			bolt mounting system. Provide a base plate as detailed on S-5000 that has the dimensions of 14" by 18".



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Number       Sa         T-0040       Ba         From: Webcor Construction       Co-Author: Balfour Beatty Infra         REQUEST:       Reference Sheet GT-111         Attached is a proposed as involves removing the two structural slab and fillets designer has done analy (see attached). The result ower levels after the slad deflection than the fully are summarized for case and 36 respectively.         BBII believes this proposed as involves removing the two structural slab and fillets designer has done analy (see attached). The result ower levels after the slad deflection than the fully are summarized for case and 36 respectively.         BBII believes this propose tremendous value to the - Eliminating the coordin concrete trade subcortration is piniticantly reduce. Allows for better water construction joint and rearound shoring elements Allows for unobstructed and soffit shoring of the reduces construction combines in the structure of the structure of the store and soffit shoring of the reduces construction combines in this sequent.         T-0041       B         From: Webcor Construct       Co-Author: Balfour Beatty Infr         REQUEST:       Reference Spec. Section	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed		
T-0040	BSE - Propose	ed Bracing Removal Sequ	ence	Closed	02/22/2011	Date Required       Date Answered       Cost Impact       Pro         011       03/04/2011       02/23/2011       Potentially       [         ed By:Adamson Associates, Inc George Metzger       R:       Accept Suggestion:       ]         esponse:					
From: Webcor Cor	struction LP	Nhi Tran	To: Turner Construction Co	mpan Daphne Faulkner	Answered B	y:Adamson Ass	ociates, Inc Geo	rge Metzger			
Co-Author: Balfour Beat	ty Infrastructure, Inc	c. Ural Yal									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:				
Reference Sheet (	GT-1112 and attach	ed proposal			ARUP Respo	inse:					
Attached is a prop involves removing structural slab and designer has done (see attached). Th lower levels after t deflection than the are summarized fo and 36 respectivel	osed sequence for the two lower layers fillets are poured. If analysis at each st e results show that he slab has been po fully excavated cor or case west and ca y.	bracing removal that s of bracing after the BBII's shoring age of construction removal of the two bured produces less idition. The results se east on page 18			The question should be sul procedures o Considerable design team the suggestic We understal March 1 TG0 Coordination	in this RFI is a somitted following utlined in the sp time and coordinembers is required in. Arup will contind it will be a top 3 BSE Subcontring	substitution requi- the appropriate ecifications. nation between t irred to properly inue to study the bic of discussion actor - Design T	est and he evaluate issue. at the eam			
BBII believes this tremendous value - Eliminating the c concrete trade sub the lower walls and - Eliminates a hori which significantly - Allows for better construction joint a around shoring ele - Allows for unobs and soffit shoring o reduces constructi BBII is requesting determine if this so	proposed sequence to the overall projec oordination betweer ocontractors during is d concourse slab zontal construction reduces construction waterproofing produ and reduces patchin ments tructed construction of the concourse lev on cost and duratio evaluation by TJPA equence is acceptal	provides a t by: n the bracing and the construction of joint in the lower wall on cost and duration. uct, by eliminating a ig of the membrane of the lower walls vel slab, which also n 's design team to ole.									
T-0041	BSE - COR and	d PCO Forms		Closed	02/23/2011	03/05/2011	03/16/2011	Potential	Iv 🗔		
From: Webcor Cor	struction LP	Nhi Tran	To: Turner Construction Co	mpan Daphne Faulkner	Answered B	<b>y:</b> Turner Constru	uction Comr Dap	hne Faulkner			
Co-Author: Balfour Beat	ty Infrastructure, Ind	c. Ural Yal									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	aestion:				
Reference Spec. S	Section 00 07 00, 6.	03E,			There are no forms provided by TJPA.						
Per section 00 07 mentioned to be s electronic format.	00, 6.03E, BBII req upplied by TJPA, pr	uests for the form as eferably in editable			Webcor/Obay summary cov	yashi has establi ver sheet for cha	shed an accepta nge proposals.	ble			



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T-0042	301 Mission S	creen Wall - Elevation of co	ncrete wall	Closed	02/24/2011	03/06/2011	03/10/2011	Potential	у 🗌
From: Webcor Con	struction LP	David Hungerford	To: Turner Construction Compan	Daphne Faulkner	Answered B	y:URS Corporati	on Dav	d Fyfe	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Please clarify the following information regarding the field         elevation of the new concrete wall. Detail A/S-4000         indicates that the concrete foundation wall height shall be         +/- 2'- 2" to 2'- 8". Based on this reference the tallest part         of the concrete wall will be the East point of the wall. The         height of the wall will then decrease as the wall moves         west towards Fremont St. (the west side). If we use a wall         height of 2'- 8" at its tallest point (the east side), that would         result in a wall height of 20.5 inches at Fremont Street (the         west end). This is less than 2'-2" as indicated in the         contract drawings; therefore please confirm that         Transworld will be building a concrete wall height between         20.5 inches to 2'- 8". As a point of comparison, the original         existing screen wall had this exact same dimension of         20.5 inches at the low and 2'- 8" at the high.			It Plug at Utility Vault Opening	Closed	New concrete embed plate of Contract doct height varies on the drivew plans provide 301 Mission S minimum 18" paver/driving A/S-4000, "To Contractor to please adjust above top of +/- to 3'-4" +/- See attached	a wall height of 2 on west end is n uments show the from 2'-2" +/- to ay elevations sh d by Millennium Street, and allow high concrete w surface for vehic op of (E) Vault V VIF, Adjust Con top of concrete paver/driving sur- in wall height). coordination ske	0.5" above the e ot acceptable. e new concrete w 2'-8" +/ This is own on the exist Partners, develo ing for a code re rall from top of cle safety. As no /all Elevation ma crete Wall Acco wall to be minim face (approxima etch.	xisting vall based ing per for quired oted on ty Vary, dingly", um 18" tely 2'-4"	
From: Webcor Con	struction LP	David Hungerford	To: Turner Construction Compan	Daphne Faulkner	Answered By	y:URS Corporati	on Dav	d Fyfe	·
Co-Author:									
REQUEST:			SUCCESTION						
Regarding the tran			SUGGESTION.		ANSWER:	Accept Sug	gestion:		



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Option 2- Added additionall 2x4 crossmembers which would further restrict air flow to the (e) vault. Option 3- Nail on a plywood sheet that would enclose the entire vault vent opening.

Option 4 - Nail on a plywood sheet and waterproof the plywood to prevent water intrusion as well.

Note: Transworld Construction is concerned about restricting airflow into a vault that originally was designed to have this open vent. We are not familiar with any impact sealing this vent will have on the existing equipment.

# 6. Seal perimeter of plywood sheet and existing concrete vault wall with appropriate sealant to ensure weather tightness (all four sides).

In addition, Contractor is required to ensure sufficient air flow is provided to existing underground vault/electrical equipment at all times. Existing ventilation openings (one per vault) shall not be plugged until new ventilated manhole covers per C-5000/C-5001 are installed. The new ventilated manhole covers must be protected from damage and/or soiling from concreting activities of the adjacent stem wall. The existing ventilation openings must be plugged prior to start of BSE activities to restrict entry of water and/or construction debris into the existing underground vault/transformer spaces.

T-0044	BSE - Pile Mat Sla	b Connection	CI	osed	02/25/2011	03/07/2011	03/02/2011	Potentially	
From: Wel	bcor Construction LP	Nhi Tran	To: Turner Construction Compan Daphne	e Faulkner	Answered B	Adamson Asso	ociates, Inc Geo	orge Metzger	
Co-Author: Balf	four Beatty Infrastructure, Inc.	Ural Yal							
REQUES	T:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference	e Sheet S-3003				TT Reply: The trestle supports the bridge, therefore				
Reference Mat Conn Please co and not th	e Detail 2 on S-3003 - "Slip Deta ection" Infirm that this detail only applies he bridge as stated.	il @ Trestle Pile s to the trestle							
T-0045	301 Mission Scree	en Wall - Void Below Ex	isting Embed CI	osed	03/02/2011	03/12/2011	03/17/2011	Potentially	
From: Wel	bcor Construction LP	David Hungerford	To: Turner Construction Compan Daphne	e Faulkner	Answered B	URS Corporati	on Dav	/id Fyfe	
Co-Author:									
REQUES	T:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference	Reference: Attached pictures				Voids below t	he existing embe	ed plate shall be	⇒ filled by	
The new 3	301 Mission screen wall location	is to be laid out			grouting meth	ods to deliver g	rout into void sp	aces.	



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			•				

over an existing embed plate. At that plate #8 rebars are to be epoxied per RFI T-0027. Currently in the field the embed has been cut where the dowels are to be installed and holes are being drilled to the required 30" depth. It has been discovered that there are voids below the exitsing embed plate of up to 1.5". See attached pictures for some locations where this condition occurs. Please advise if this void is to be filled. The result following grouting shall be that all voids are fully grouted. All grout materials shall be non-shrink grout. Pressure grouting shall be performed by qualified personnel who have experience in low pressure grouting steel plates. Contractor shall submit qualifications in the form of resumes identifying project experience utilizing low pressure grouting for personnel performing the work.

The Contractor shall provide a submittal identifying the non-shrink grout mix proposed for use and a narrative providing a full description of the means and methods proposed to result in grout flow from input point to output point including methods to result in prevention of trapped air (air is to be displaced by grout flow). A narrative describing means and methods shall specifically include identification of proposed equipment and the proposed porting and venting to allow installation of non-shrink grout and displacement of trapped air.

Where the embedded plate is not continuous (where the plate is not provided), the existing concrete surface shall be prepared meeting all requirements of a bonded construction joint. - David Fyfe 03/16/2011

==========Additional

7" +/- 1" is acceptable pending our review of the

T-0046	BSE - CLSM Slump	)	Closed	03/03/2011 03/13/2011 03/07/2011 Potentially
From: Webcor Con	struction LP	Nhi Tran	To: Turner Construction Compan Daphne Faulkner	Answered By: Adamson Associates, Inc George Metzger
Co-Author: Balfour Beat	ty Infrastructure, Inc.	Ural Yal		
REQUEST:			SUGGESTION:	ANSWER: Accept Suggestion:
Reference Specific	cation Section 03 30 01			03/03/2011 Kevin Clinch
The CLSM slump	The CLSM slump range for the Buttress Shoring			ARUP Response - A CLSM mix with a slump range of

The CLSM slump range for the Buttress Shoring Excavation Work is listed between 10" to 12". BBII has



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concerns about placement wit acceptable to 7" +/- 1" in lieu Specification.	ut the CLSM mix segregation h such a high slump. Pleas provide a CLSM mix with a u of the 10" to 12" called for	ng during se confirm if it is I slump range of r in the			Contractor's n Owner's Testi Control proce segregation o	nix design. Arup ng Agency to rei dures for checkii f the CLSM.	will work with the fine the Field Qu ng slump and	e ality	
T-0047	BSE - Joint Prece	onstruction Survey		Closed	03/03/2011	03/13/2011	03/11/2011	Potentia	lly
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction Com	npan Daphne Faulkner	Answered By	Transbay PMP	C Alfre	d Lau	
Co-Author: Balfour	Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Sp	ecification Section 01 15 4	0 and attached list			Arup has been	n, and will contin	ue, performing in	nterior	
Attached is the joint survey, in 40. BBI reque	e list of buildings that BBI h a accordance with specifica sts confirmation of this list.	nas identified for tion section 01 15			Arup will shar becomes avai accompany A	e the information ilable. A represe rup at the remain	a with contractors ntative from BBI ning site surveys	as it may	
Please provide survey effort. I March 14, 201	e BBI a contact for coordin BBI would like to do this wo 1.	ating the joint ork on the week of			schedule of th	he remaining site	e visits.		
T-0047.1	BSE - Preconstru	ction Joint Survey Exteriors	s of Buildings	Closed	03/21/2011	03/31/2011	03/28/2011	Potentia	lly 🗌
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction Corr	npan Daphne Faulkner	Answered By	Transbay PMP	C Alfre	ed Lau	
Co-Author: Balfour	Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	aestion:		
Reference RF	I #T-0047 and attached em	nail			Response to	RFI T-0047 was	specific to the qu	uery	
Please confirm with item 1.5 I is also covere the interior of	n the exterior of the buildin D in the specification 01 15 d by the response of RFI T the building	g, in accordance 40 Joint Survey, -0047 as well as			posed relating adjacent build conducting ar Arup for any f	to the preconst ling interiors (based and the feasibility uture visits.	ruction survey of sements) that Ar for the contracto	up is r joining	
If not, please of the construction immediately.	contact "property owners w on excavation" and arrange	ithin 25 feet of the joint survey			For the pre-cc photographing 40 - 1.5.D, ple will coordinate consultant, to attendance of	onstruction joint- g of adjacent bui ease coordinate e with Singer Ass invite and/or coo adjacent proper	examination and Iding exteriors pe with Turner (CM soc, TJPA's outro ordinate the poss ty owners. Plea	er 01 15 O), who each sible se	



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					submit a list o examination/p	f properties and hotography acti	planned schedul vities ASAP for re	e of the ecord	
T-0048	BSE - Building Den	olition in Zone 1		Closed	03/03/2011	03/13/2011	03/10/2011	Potential	ly 🗌
From: Webcor Constru	iction LP	Nhi Tran	To: Turner Construction Compa	n Daphne Faulkner	Answered By	Turner Constru	uction Comr Jack	Adams	
Co-Author: Balfour Beatty In	nfrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference CR-T-005 and Sheet SKGT-0001-R1					The "Eminent this time - esti	Domain" legal p mated completi	process is incomp on date is 5/29/1	olete at 1.	
CR T-005 appears to demolition. Please pro work and an estimated potentially impact BBI	require additional buil ovide a schedule for th d completion date as 's schedule and work	ding nis demolition this will sequence.			Therefore the Natoma, 564 I issued and a s estimated den 7/29/11 and 8	demolition cont Howard and 568 schedule canno nolition complet /29/11.	ract for 60 Teham 3 Howard has not t be provided. The ion date is betwee	na, 85 been e en	
T-0049	BSE - Constructwa	re		Closed	03/03/2011	03/13/2011	03/03/2011	Potential	lv 🗌
From: Webcor Constru	uction LP	Nhi Tran	To: Turner Construction Compa	n Daphne Faulkner	Answered By	:Turner Constru	uction Comr Daph	ine Faulkner	
Co-Author: Balfour Beatty In	nfrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Specification	on Section 01 10 40				Trade contrac	tors will be give	n "View Only" acc	cess to	
Specification Section "TJPA will provide Tra necessary training and	01 10 40 Article 1.6 B de Subcontractors wi d access to Construct	4 states: th the ware"			and training. V information flo TJPA will not	<ul> <li>Contact Turne</li> <li>V/O is still response</li> <li>w to and from t</li> <li>accept informat</li> </ul>	er to schedule acc onsible for manag heir trade contrac ion entered by tra	cess jing the tors. ide	
BBI would like to sche arrangements for acce this process started.	dule this training and ess. Please provide a	make contact to get			contractors. A reviewed by W	II trade REIS an	d submittals are t mission to TJPA.	o de	



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From: Webcor (	Construction LP	Nhi Tran	To: Turner Construction Comp	an Daphne Faulkner	Answered B	<b>y:</b> Turner Constru	uction Comr Daph	ine Faulkner	
Co-Author: Balfour B	eatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
As BBII has ex Design Team ( February 23, 2/ pricing and ma be required for requesting revis impacted by thi limited to, geot These drawing: changes and p of the General In addition, due times, BBII pro the ordering of rest of the Cha this will reduce receipt of the re shoring wall be receive quotes	plained at the TG03 Trade Coordination Meeting No. 3 D11, in order for BBII to pro- ke preparations to order mather the changed work, BBII is sed contract documents for s change, specifically inclu- echnical and demolition dra- s will allow BBII to accurate rovide pricing that complies Conditions. to increasing steel prices poses a revision to CR T-0 additional shoring wall bea nge Order being negotiated the overall cost of this cha evised drawings that includ am table (GT-5101), BBII v for this work and finalize an	Subcontractor - 8, held on by de meaningful aterials that will respectfully or all work that is uding, but not awings. ely identify the s with Section 6 and long lead 005B to allow for ams prior to the d. BBII believes ange. Upon de the new will be able to in order.			OKS will issue 03/10/2011 - Some parts of URS/PMPC/ ARUP Respond Arup's respond geotechnical as follows: the 5101 does not the plan were increased wat elevation material established f length of the hole from the shown on the In addition to 0001-R1 in re include the foc index will be GT-0100, GT will be revise R1); and GT- Howard will be demolished; showing the corner). Asid have been is above descri impact and the	Gr-2101 which eschedule. GT-2101 which eschedule. GT-2000 das shown and 5105 (the sectio be deleted as the a section will be approximate dist e from the chang sued as SKGT-0 bed drawing cha	eed to be answerd e request for e soldier pile sche g Wall Schedule' vall segments sho d to include the ssible that the top once the finish g on of the building the depth of the d will not change fr was issued as SI 017, the change o s: GT-0000 (the d the affected draw (the shoring wall detailed on SKGT ns at 564 and 566 se buildings will b added at 580 Hov ance to the buildi ges to GT-2101 w 0001-R1, We cons nges to have no o yet been issued.	ed by edule is on GT- wn on of wall rade is s. The rilled om that (GT- rder will rawing <i>v</i> ings); layout ro001- 3 be ward ng hich sider the cost	

From: Webcor Construction LP

**Returned Submittal Comments** 

Daniel Foudy

Closed To: Turner Construction Compan Daphne Faulkner 02/16/2011 02/26/2011 03/10/2011 Potentially

Answered By: Turner Construction Comp Daphne Faulkner



From: Webcor Construction LP

Nhi Tran

Webcor/Obayashi Joint Venture

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Answered By: Adamson Associates, Inc George Metzger

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Co-Author:										
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Ref Spec sec	tion 01 13 10				These respon	nses are accepta	ble and will be			
According to the submittal indicating on	the Action and Distribution specifications, Submittals s e of the following:	(section 1.11) of shall be returned			Incorporated into a revised specification section 01 13 10 to be issued in the future.					
No Exception	s Taken									
Make Correc	tions Noted									
Revise and F	esubmit									
Rejected										
We have recommended with the second of the s	eived submittals back as "N Only". Please confirm these nd should be incorporated ir s.	lot Reviewed" or e responses are nto the								
T-0052	BSE - P Parcel			Closed	03/09/2011	03/19/2011	03/10/2011	Potentia	lly 🗌	
From: Webco	r Construction LP	Nhi Tran	To: Turner Construction Corr	npan Daphne Faulkner	Answered By	<b>y:</b> Turner Constru	uction Comr Jack	Adams	-	
Co-Author: Balfour	Beatty Infrastructure, Inc.	Ural Yal								
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Reference Sp	pecification Section 01 14 1	9, 1.4			Parcel P is av	vailable for Web	cor-Obayashi use	in ab for		
According to is available a until 2013. Bl available for	the referenced specification s of November 1, 2010 and BI was informed that this pa his contract.	n section, Parcel P will be available rrcel will not be			shared use w	ith TJPA.	see allacried skel	CHIO		
Please confir	m.									
If this parcel parcels that v	is not available, are there ar vill be available for construc	ny alternative tion staging?								
 T-0053	BSE - Waler Stan	ndoff		Closed	03/09/2011	03/19/2011	03/14/2011	Potentia	lly	

To: Turner Construction Compan Daphne Faulkner



and not cost effective for over 3000 lf feet of wall and 4

Webcor/Obayashi Joint Venture

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#### 30100 - Transbay Transit Center Project

concrete work subcontractor.

				5		J			
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
<b>Co-Author</b> : Balfour B	Beatty Infrastructure, Inc.	Ural Yal							
REQUEST			SUGGESTION			Accent Sug	aestion:		
Reference She photos and dra	eet GT-1110, RFI #T-0018 awings	3, and attached			ARUP Respo	onse:			
Previous RFI #T-0018 - BSE - Waler to CDSM Wall spacing addressed BBI's concern with only having 6" clear between the face of the CDSM Wall and the Waler. Conversations in the weekly TG03 BSE Design Team Coordination meetings have re-raised the issue and BBI believes it requires additional consideration. The response in RFI #T-0018 said that rebar couplers in the wall verticals (in the next contract) would be used to eliminate the conflict. BBI believes that this seems to be impractical and not cost effective for over 3000 If feet of wall and 4 levels of walers. Providing a standoff equal to the wall thickness would be an additional cost to the BSE contract, but BBI believes it would be minor compared to dealing with the cost to deal with the conflict later. BBI is requesting to please re-evaluate and provide direction.					Provided the is satisfied, the Additionally: Provided this internal braci details and c The soldier p moment due shall be repo No increase permitted. End of Comm	criteria shown ir he proposal is acc ng design subm alculations asso iles shall be che to the eccentric rted in the intern n torsional loadi hents	the Contact Docu ceptable to the TJP ittal shall include t ciated with this pro- cked for the increa strut reaction. This al bracing submitt ng on the soldier p	A, the ne iposal. ised s check al.	
Attached is a s it has been us	suggested detail as well a ed before, for your consid	s examples where leration.							
T-0053.1	BSE - Waler Sta	ndoff		Closed	03/09/2011	03/19/2011	03/22/2011	Potentia	lly
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction Compa	an Daphne Faulkner	Answered B	<b>y:</b> Transbay PMF	PC Alfred	Lau	
Co-Author: Balfour E	Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference She photos and dra	eet GT-1110, RFI #T-0018 awings	8, and attached			REVISED RE	SPONSE TO R	FI #T-0053		
Previous RFI #T-0018 - BSE - Waler to CDSM Wall spacing addressed BBI's concern with only having 6" clear between the face of the CDSM Wall and the Waler. Conversations in the weekly TG03 BSE Design Team Coordination meetings have re-raised the issue and BBI believes it requires additional consideration. The response in RFI #T-0018 said that rebar couplers in the wall verticals (in the next contract) would be used to eliminate the conflict. BBI believes that this seems to be impractical					TJPA revises The W/O and between the TJPA since in DESIGN sub for Contracto creates multi The waler is help W/O wit	BBI proposal to waler and CDSM meets the requisections I, J, K, r use. This prop ple benefits for N out of the way of h their coordinat	follows: o increase the spa 4 wall is acceptabl irements in 31 55 L, and M. This des osal from the Cont V/O and BBI inclu the rebar and this ion with the Train	cing e to 00 1.5 sign is ractor ding s will Box	



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levels of walers. Providing a standoff equal to the wall thickness would be an additional cost to the BSE contract, but BBI believes it would be minor compared to dealing with the cost to deal with the conflict later. BBI is requesting to please re-evaluate and provide direction. Attached is a suggested detail as well as examples where it has been used before, for your consideration.	<ul> <li>W/O benefits since more rebar can be installed with this increased spacing which saves time to the schedule and costs associated with the waterproofing and rebar installations.</li> <li>BB benefits because it appears that there is a decrease to the number of times that struts and walers must be moved.</li> <li>BB benefits in that strut length remains essentially the same when restrutting after Train Box wall sections are completed.</li> </ul>
	TJPA and the Program Management Team suggest that W/O and BB proceed with a 3' - 6" spacing or whatever dimension is necessary to insure that the walers are not within the Train Box Wall profile. If the walers position requires rework, the Contractor and SubContractor take full responsibility to meet design requirements with no change to contract cost. TJPA agrees to this suggestion from the Contractor to offset the waler from the CDSM wall to allow for the construction of the Train Box wall. TJPA requests that the Contractor proceed on this issue as a no-cost resolution to these RFIs. If W/O finds that this Internal Bracing for Shoring Wall design does have an additional cost to TJPA, the funds will come from the CM/GC Contingency Fund.

T-0053.2	BSE - Waler Stan	doff	Closed	03/09/2011 03/19/2011 03/28/2011 Potentially	
From: Webcor C	onstruction LP	Nhi Tran	To: Turner Construction Compan Daphne Faulkner	Answered By: Transbay PMPC Douglas Jacobson	
Co-Author: Balfour Be	eatty Infrastructure, Inc.	Ural Yal			
REQUEST:			SUGGESTION:	ANSWER: Accept Suggestion:	
Reference Shee photos and draw Previous RFI #T spacing address between the fac Conversations ir	et GT-1110, RFI #T-0018, vings -0018 - BSE - Waler to C sed BBI's concern with on e of the CDSM Wall and n the weekly TG03 BSE E	and attached CDSM Wall Ily having 6" clear the Waler. Design Team		TJPA and Program Management Team expect that the Contractor and Sub-Contractor meet the design requirements for the Design/Build of the Internal Bracing as specified in 31 55 00 INTERNAL BRACING FOR SHORING WALL and per the Contract Drawings. As subsection 1.8 M. states,	
Coordination me believes it requi in RFI #T-0018 s	eetings have re-raised the res additional considerations said that rebar couplers in	e issue and BBI on. The response n the wall		"Walers are to be placed against the shoring wall on spacers to provide a minimum of 6 inches of clearance between the waler and the shoring wall.	



decking, and an overlay will be applied over the top. BBII would like to use a 2" minimum overlay, resulting in an overall cross section with an average 4" thickness. Bridge geometry requirements specified in section 01 53 13 -1.3.A.6 will be met without reducing the overlay thickness Webcor/Obayashi Joint Venture

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verticals the confl and not of levels of thickness but BBI is with the of BBI is re direction Attached it has be	verticals (in the next contract) would be used to eliminate the conflict. BBI believes that this seems to be impractical and not cost effective for over 3000 If feet of wall and 4 levels of walers. Providing a standoff equal to the wall thickness would be an additional cost to the BSE contract, but BBI believes it would be minor compared to dealing with the cost to deal with the conflict later.         BBI is requesting to please re-evaluate and provide direction.         Attached is a suggested detail as well as examples where it has been used before, for your consideration.         054       BSE - AC Overlay at Temporary Bridges         From: Webcor Construction LP       Nhi Tran         0-Author: Balfour Beatty Infrastructure, Inc.       Ural Yal				The 6 inch cle to allow the ou permanent wa without requiri at walers" The Submittal the concerns of Arup in their re "Provided the Documents is Additionally: Provided this internal bracin details and ca The soldier pil moment due t shall be report No increase ir permitted."	arance is to pro tiboard curtain o ill to be routed th ng use of couple for Internal Bra expressed by th esponse to RFI criteria shown in satisfied, the pr proposal is acce ig design submi lculations associ es shall be chec o the eccentric si ted in the interna in torsional loadin	vide a continuous of reinforcement of nrough this space ers or added lap cing needs to add e reviewers incluin T-0053 which state oposal is accepta eptable to the TJF tal shall include to iated with this pro- cked for the incre- strut reaction. The al bracing submit ag on the soldier	s path of the splices dress ding tes: able. PA, the he oposal. ased s check tal. bile is	
T 0054		of Tomporory Dridges		Closed	02/00/2044	02/40/2044	02/25/2014	Detentio	
From: We	bcor Construction I P	Nhi Tran	To: Turner Construction Cor	Ciosed	Answered By	US/ 19/2011	03/23/2011	Fotentia	
Co-Author: Ba	four Beatty Infrastructure. Inc.	Ural Yal			,			, i yic	
REQUES	st.		SUGGESTION			Accent Sug	nestion:		
Reference	e Specification Section 01 53 13 material information	8, 1.3.A.6 and	COOLDHON.		2" minimum a acceptable. P (AC) overlay p	sphalt concrete rovide minimum per contract doc	(AC) overlay not of 4" asphalt cor uments (specifica	ncrete	
For the to structura troughs a	emporary bridges, BBII will be us I bridge deck material from Big F are filled completely with AC to th	sing the attached 8 Bridge. The ne top of the			section 01 53	13, 1.3.B.3).			



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below the 2" min	nimum. this is acceptable.								
T-0055	BSE - Request for	Soil Parameters		Closed	03/09/2011	03/19/2011	03/14/2011	Potentiall	у 🗌
From: Webcor C	Construction LP	Nhi Tran	To: Turner Construction Comp	an Daphne Faulkner	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger	
<b>Co-Author:</b> Balfour Be	eatty Infrastructure, Inc.	Ural Yal							
REQUEST: Reference Shee	et GT-1110 and Specificati	ion Section 31	SUGGESTION:		ANSWER: ARUP Respon	Accept Sug	gestion:		
55 00					Summary tables of the soil properties used in Aru			Arup's	
In the TG03 BS on 03/09/2011, input parameter	E Design Team Coordinat Arup said they would prov s for use in BBI's model.	ion meeting held ide BBII with soil			PLAXIS analys	sis are attached	l.	hiup 3	
Please provide	BBI with this information.								
T-0056	BSE - CR T-006			Closed	03/09/2011	03/19/2011	03/10/2011	Potential	v 🗆
From: Webcor C	Construction LP	Nhi Tran	To: Turner Construction Comp	an Daphne Faulkner	Answered By:	Turner Constru	uction Comr Daph	ine Faulkner	
Co-Author: Balfour Be	eatty Infrastructure, Inc.	Ural Yal			-				
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference CR 1	Г-006				This is not an	RFI. W/O has o	control of the site	and is	
The Change Re have the mainte	equest documents do not ir enance responsibility for th	ndicate who will e AC walkway.			subcontractor	for pricing.			
BBII has the foll 1. Should BBII If this walkway i minus rubble, a required. 2. When is this And if maintena 3. Are the typic the same ones the additional row the fenced, protection	lowing questions: include pricing for mainte s going to get placed on to fair amount of maintenand s walkway scheduled to be nce is needed, when woul cal fence and K-rail shown that are protecting the peri- hat creates a walkway that ng the public from constru-	nance? op of the 3" ce would be e constructed? d it start? in the section imeter, or an t has both sides ction and vehicle							



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#### 30100 - Transbay Transit Center Project

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traffic? BBII needs to have accurate pricing for advise.	this information in ord this Change Request	er to provide T-006. Please							
T-0056.1	BSE - CR T-006			Closed	03/24/2011	04/03/2011	04/12/2011	Potential	ly 🗌
From: Webcor Cons	struction LP	Nhi Tran	To: Turner Construction Compan	Daphne Faulkner	Answered By	Turner Constru	uction Comr Jack	Adams	
Co-Author: Balfour Beatt	y Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference RFI T-00 Please confirm that overlay are exclude at the TG03 BSE - 3/23/2011. Also, plu discussed at the m complete copy of D related to CR T-006 responsibility.	056 and CR T-006 any necessary repairs drom CR T-006 scop Design Coordination M ease provided addition eeting as well. Finally, emo Contractor¿s cha 6 to fully understand th	s of the AC lee as discussed leeting on al sketches we please provide a inge order e limits of their			CM/GC is respincluding thes as specified ir The AC overlaper RFI 24.2. using crushed used by EB a AC overlay wa applied no les However, the required repait there is a failupedestrian tra equipment), the attention of Tu contract.	ponsible for main e sidewalks- de n contract docur ay was installed The basements I concrete, comp ind verified by IS as installed per s than 3" thick. CM/GC's conce r if there is a fail re of the AC ov ffic on this sidew hen this should JPA Rep at that 2, EBi Proposa d.	intenance of site - bris, cleaning, gra nents. by Demolition Co were filled per co paction methods v SI Special Inspect RFI 24.2 with asp ern is related to the lure of this aspha erlay (if caused by walks- not constru- be brought to the time in accord wi I drawings and Ch	affiti etc. ontractor ontract were or. The halt e lt. If y iction th hange	
T-0057	BSE - Verticality a	nd Sonic Testing on	Drilled Piers and Shafts	Closed	03/10/2011	03/20/2011	03/11/2011	Potential	ly 🗌
From: Webcor Cons Co-Author: Balfour Beatt	struction LP	- Nhi Tran Ural Yal	To: Turner Construction Compan	Daphne Faulkner	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger	

REQUEST:

Reference Sheet GT-5202 and Specification Section 31

SUGGESTION:

ANSWER: Accept Suggestion:

#### ARUP Response:



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#### 30100 - Transbay Transit Center Project

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#### 63 29

Specification Section 31 63 29, 3.8.1.3 states "The contractor shall perform a test to determine verticality of the steel tubes, or drilled holes, that are going to be used for the sonic tests."

BBII has been advised by a number of testing firms that verticality tests cannot be performed on steel tubes or PVC tubes tied to steel cages. Detail 12 on Drawing GT-5202 shows 4 equally spaced PVC or steel tubes tied to reinforcing steel cage. BBII has also been informed that, as of now, there is not a specification in existence that mentions vertical tolerances of CSL tubes.

BBII is proposing to do the following in lieu of formally testing the CSL tubes for verticality:

 BBII will make sure that the tubes are parallel and symmetrically placed. The cages and tubes will be properly inspected for positioning, spacing, parallelism prior to placing the cages into the hole. This is the most important inspection to ensure accurate CSL results.
 Since the tubes are tied directly to a vertical cage, and the cages and casings are tested for verticality anyway, BBII will do a visual inspection to ensure that the tubes are sufficiently "vertical" for CSL testing purposes prior to placement of tremie concrete.

3. BBII will make sure that the cages are carefully lifted in a manner that limits the deflections of the cage to ensure that the CSL tubes do not fail at the joints.

Please confirm if this is acceptable.

T-0058 **BSE - Underground Utilities Removal on Beale Street** Closed 03/11/2011 03/21/2011 03/23/2011 Potentially From: Webcor Construction LP Nhi Tran To: Turner Construction Compan Daphne Faulkner Answered By: Turner Construction Comr Jack Adams Co-Author: Balfour Beatty Infrastructure. Inc. Ural Yal **REQUEST:** SUGGESTION: ANSWER: Accept Suggestion: Reference Sheet D-2230 Beale Street Utilities PGE and ATT. Substructure installation and work is incomplete. Work is scheduled to complete by 5/30/11. Cabling/cutovers &

Per Drawing D-2230 Note 2, "Unless specified otherwise all utilities to be removed have already been cut and

The verticality of the holes / tubes must be checked to properly interpret the CSL test results. If verticality tests cannot be performed on steel tubes, consider using PVC tubes. The integrity of the PVC tubes can be maintained by filling them with water and inserting alignment bars into them prior to concrete pouring.

pressurizing gas pipe forecasted to be complete by



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capped outside limits Program Relocation utilities installed by tl Relocation of Utilities removal of utilities w	s of work by Transt of Utilities Project i he Transbay Trans s Project. Contracto ith TJPA represent	bay Transit Center including future sit Center Program or to coordinate tative."			6/30/11. ATT ***** These d weather, oper the control of	will finish in this ates are subject rational issues a PG&E*****	window also. to change due to nd any conflicts o	utside	
Please confirm that t completed for all unc If work has not yet be of utilities not yet aba utilities are to be cut	the work described derground utilities of een completed, ple andoned and dates and capped.	l in Note 2 has been on Beale St. ease provide a list s when the said			Beale St. We project will pro Beale St.	bcor-Obayashi: ovide the compl	Relocation of Utili tion dates for util	ties ities on	
<b>From</b> : Webser Const	BSE - Undergro	bund Utilities Removal or	n Fremont Street	Closed	03/11/2011	03/21/2011	03/23/2011	Potentia	lly
Co-Author: Balfour Beatty	Infrastructure. Inc.	. Ural Yal	IC: Turner Construction	Compan Daphne Faulkner	Answered by	<b>y:</b> Lurner Constru	iction Comp Jack	Adams	
REQUEST:	···· , ·		SUGGESTION:		ANSWER:	Accept Sug	aestion:		
Reference Sheet D-2 Per Drawing D-2230 all utilities to be remo capped outside limits Program Relocation utilities installed by th Relocation of Utilities removal of utilities w Please confirm that to completed for all uno	2230 Note 2, "Unless sp oved have already s of work by Transt of Utilities Project i he Transbay Trans s Project. Contractor ith TJPA represent the work described derground utilities of approximation of the second derground utilities of	pecified otherwise been cut and bay Transit Center including future sit Center Program or to coordinate tative." I in Note 2 has been on Fremont St. asse provide a list			Fremont Stre scheduled to cutovers fored ***** These d weather, open the control of Fremont St. ' project will pro Fremont St.	et PGE Final co be complete 4/1 casted to be cor ates are subject rational issues a PG&E****** Webcor-Obayas ovide the compl	nduit installation 1/11. Cabling and nplete by 6/4/11. to change due to nd any conflicts o hi: Relocation of etion dates for util	t utside Utilities ities on	

To: Turner Construction Compan Daphne Faulkner

Answered By: Turner Construction Comr Jack Adams

Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal

Nhi Tran

**REQUEST:** 

Reference Sheet D-2230

From: Webcor Construction LP

#### SUGGESTION:

ANSWER: Accept Suggestion:

hstructure installation schedule

First Street - Substructure installation scheduled to complete by 4/30/11. Cabling and cutovers forecasted



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Number Per Drawing D all utilities to be capped outside Program Reloc utilities installe Relocation of U removal of utili Please confirm completed for If work has not of utilities not y utilities are to b T-0061 From: Webcor Co-Author: Balfour E REQUEST: Reference She BBII has concu	Subject	bject		Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Per D all util cappe Progra utilitie Reloc remov	rawing D-2230 Note 2, "Unless spec lities to be removed have already be do utside limits of work by Transbay am Relocation of Utilities Project incl is installed by the Transbay Transit C ration of Utilities Project. Contractor t val of utilities with TJPA representation	ified otherwise en cut and r Transit Center luding future Center Program o coordinate ve."			to be complet ***** These d weather, oper the control of	utside			
Pleas comp If worl of utili utilitie	e confirm that the work described in leted for all underground utilities on 7 k has not yet been completed, pleas ities not yet abandoned and dates wh is are to be cut and capped.	Note 2 has been 1st St. e provide a list hen the said		cor-Obayashi: R ovide the comple	Obayashi: Relocation of Utilities e the completion dates for utilities on				
T-0061	BSE - Concerns A	bout Pile To Mat Slal	o Connection	Closed	03/15/2011	03/25/2011	03/23/2011	Potentia	lly
From:	Webcor Construction LP	Nhi Tran	To: Turner Construction	on Compan Daphne Faulkner	Answered By	Adamson Ass	ociates, Inc Georg	ge Metzger	
Co-Author:	Balfour Beatty Infrastructure, Inc.	Ural Yal							
REQU	JEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Refer	ence Sheet S-3003 and attached det	tail			Thornton Torr	nasetti response	:		
BBII h	has concerns that the trestle pile to m	nat slab slip			Comments in	response to BB	Il concerns:		
conne	ection as shown in detail 2 on S-3003	3 will not work as							
intenc intenc	led. Based on BBII's understanding t ded to allow the mat slab to deflect u	that this joint is pward and our			<ol> <li>Bolts/slotte concrete via s</li> </ol>	ed holes could be styrofoam blocks	e isolated from the	9	
limited has lis 1. BB the bo concre 2. If th	d knowledge of the permanent struct sted some concerns with this connec II does not think the sleeve will be at olts and slotted holes completely enc ete. (see attached) as slab does deflect unwards and the	ure design, BBII ction below: ble to slide with ased in			2. Anticipated groundwater p turned off - wh trestle work is	I slab movemen pressure after th hich is after stru s completed.	t upward is due to e dewatering pum cture is completed	rise of ips are l and	
of pile	is no longer in contact with the bear	ring plate, then			Comments re	garding propose	ed alternate detail:		
the m 3. Any suppe could	at slab is carrying the entire load on y upward movements of the slab will er structure framing. Differential upwa cause damage depending on severi	the pile. affect the trestle ard deflections ty.			1. Proposed of bottom of main as currently p	detail does not a t and allows wat resented.	ddress waterproof er infiltration into t	fing at he mat	
BBII c due to howey would	does wish to bear the risk of re-desig to the interaction with the permanent s ver BBII has attached a suggestion t eliminate some of their concerns is	ning this joint structure, hat they feel ted above.			AAI Response waterproofing	e: Alternate det requirements.	ail will not satisfy		



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#### 30100 - Transbay Transit Center Project

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you still believe the detailed connection is the best suited for this application.						
T-0062 BSE - Concrete Submittals	Closed	03/16/2011	03/26/2011	03/23/2011	Potentia	lly 🗌
From: Webcor Construction LP Nhi Tran	: Turner Construction Compan Daphne Faulkner	Answered B	<b>y:</b> Adamson Ass	ociates, Inc Geo	orge Metzger	
Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal						
REQUEST:	UGGESTION:	ANSWER:	Accept Sug	gestion:		
Reference Specification Section 03 30 00		Thornton Ton	nasetti response	e:		
<ul> <li>BBII believes a number of the submittals listed under the Cast In Place concrete spec section are not applicable to the BSE package.</li> <li>- 03 30 00-1.6.A.5 Joint Locations for Concrete Slabs to receive a terrazzo finish ¿ None of the concrete work in this package is to receive flooring.</li> <li>- 03 30 00-1.6A.6 Preconstruction Survey - This is intended for locations where concrete interfaces with existing construction. The mud slab does not interface with existing concrete, and BBII is not anticipating using concrete at the temporary bridges.</li> <li>- 03 30 00-1.6.A.7 Survey of Flat Plate or Flat Slab Concrete Floors - No flat plates included in the BSE package.</li> <li>- 03 30 00-1.6.A.8 Survey of as-built floor conditions - This is applicable to finish floors only, which are not included in the BSE package.</li> <li>- 03 30 00-1.6.A.8 Structural Repairs - BBII does not believe there is any structural concrete requiring repair procedures in the BSE package.</li> <li>- 03 30 00-1.6.A.10 Patching defective concrete finishes - The concrete work in the BSE package is not finished or exposed concrete, so BBII does not believe patching procedures are necessary.</li> </ul>		Confirmed tha applicable for	at the submittals the BSE contra	s listed in the RF	l are not	

T-0063

Closed

03/16/2011 03/26/2011 03/21/2011

Alfred Lau

Potentially

Nhi Tran

To: Turner Construction Compan Daphne Faulkner

Answered By: Transbay PMPC



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Numb	er	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Co-Aı	uthor: Balfour Beatty	Infrastructure, Inc.	Ural Yal							
	REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	estion:		
	Reference Specificat	ion Section 01 35 65				A copy of Fina available in Co	I EIS/EIR as ref	erred in 01 35 65	is ition	
BBII has been unable to obtain the report titled "Final EIS/EIR" dated November 29, 2007, as described in specification section 01 35 65, 1.1.A. The report requires the contractor to be responsible for mitigation measures and monitoring requirements that are included in the					File Director - Environmental 2004 EIS - Ori	Programwide - 5 I - 11 EIS/EIR - Iginal	5 Program Coord EIS/EIS Transit (	I - 10 Center -		
	specification section.					A Constructwa information.	are screenshot is	s attached for you	ur	
	Please provide BBII	with this report.								
T-0064	L	BSE - Demolition	Contract Backfill Material		Closed	03/16/2011	03/26/2011	03/21/2011	Potentia	lly
I	From: Webcor Constr	uction LP	Nhi Tran	To: Turner Construction Compan	Daphne Faulkner	Answered By	:Turner Constru	ction Comr Jack	Adams	
Co-Aı	uthor: Balfour Beatty	Infrastructure, Inc.	Ural Yal							
	REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference photos (attached) It appears that the demolition contractor is leaving large unprocessed rubble along the backside of some of the basement walls (See attached photos). Per the demolition drawings included in BBII's contract, all of the material in this area should be crushed/processed concrete at 3" minus. Handling material that does not meet these requirements will be considered a changed condition. Please advise.					The site Parce filled in accord crushed/proce completion of contract comp Please do not not yet comple Webcor-Obay CMO can easi telephone or v	el E is in progress I with the contra assed concrete a work by the den letion date 4/7/1 use RFI to ask eted by the Dem ashi the CM/GC Ily answer these ia e-mail.	s. The basemen ct drawings with t 3" minus upon holition contracto 1. a question of an olition contractor or Turner Const questions over t	t will be r - area : ruction he		
T-0065	5	301 Mission Wall -	Length of dowels in conc	rete wall	Closed	03/17/2011	03/27/2011	03/24/2011	Potentia	llv 🗔
	F <b>rom:</b> Webcor Constr	ruction LP	David Hungerford	To: Turner Construction Compan	Daphne Faulkner	Answered By	URS Corporatio	on David	d Fvfe	.,
Co-Ai	uthor:		U U	· · · · · · · · · · · · · · · · · · ·						
	REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Reference: Sheet S-	5000, RFI T-0042				Use of fabricat acceptable. #8	ted #8 bars with 3 embedment ba	lenton terminato	r Iled 30"	
	concrete wall height t pavers a minimum 18 overall concrete wall	to be exposed above B". To achieve this reaching the must be increased above	the existing quirement, the ased 8",			Resulting dista with lenton ter	ance from top of minator to top of	#8 embedment	bars ball will	



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therefore also increasing the length of the dowels that are to be installed. The #8 embedment bars have already been purchased and fabricated. To achieve the higher wall height per response to RFI #T-0042, 90% of these fabricated #8 bars will have to be scrapped and new bars with the longer length must be made. As an alternative, would it be acceptable to still use the		vary between approximately 3" - 9", verify in field. If resulting distance from top of #8 embedment bars with lenton terminator to top of new concrete wall is greater than 6", contractor shall install #4 U-bars at 12" on center. #4 U-bars shall be centered between the #4 ties on both sides of the #8 bar(s). #4 U-bar legs shall be 22" long.	
fabricated #8 embedment bars dowelled 30" into the wall per RFI T-0027, with the lenton terminator which would be set 32" above the (E) steel plate?		See attached coordination sketch. TJPA Representative to field verify all rebar placement prior to Contractor placing concrete.	
T-0066 BSE - Pile Survey for Buttress Area	Close	03/21/2011 03/31/2011 04/04/2011 Poten	tially
From: Webcor Construction LP Nhi Tran	To: Turner Construction Compan Daphne Fa	Ikner Answered By: Turner Construction Comr Jack Adams	
Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal			
<b>REQUEST:</b> It is BBII's understanding that EBI has completed their survey of the existing timber piles in the buttress area, including the area that was previously missed. Please provide BBII with the remaining timber pile survey	SUGGESTION:	ANSWER: Accept Suggestion: Here is the remaining timber pile survey information. It is expected that BBII will provide the TJPA a Credit since this survey scope was in contract Spec. 02-41-19 Para 1.4E	
information, as indicated at the TG03 BSE Design Coordination Meeting.			
T-0067 BSE - Joint Preconstruction Survey	Close	03/21/2011 03/31/2011 03/23/2011 Poten	tially
From: Webcor Construction LP Nhi Tran	To: Turner Construction Compan Daphne Fa	Ikner Answered By: Transbay PMPC Alfred Lau	
Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal			
REQUEST: Reference RFI T-0047	SUGGESTION:	ANSWER:       Accept Suggestion:         1. Correct.	
Based on recent discussions, BBII is requesting confirmation of their understanding of Specification Section 01 15 40:		2. The 19 buildings listed by ASC for BBI are all included in the pre-construction survey list prepared by Arup (copy attached).	
<ol> <li>The inside survey of the adjacent buildings will be performed by ARUP and ARUP is in the process of</li> </ol>		(note the 101 1st Street address listed by ASC should be corrected to 100 1st & 533 Mission)	



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performing these su the extent possible. these buildings, incli monitoring. ARUP w subsequent monitori reserves its right to u perform its own indo buildings. ARUP is s the information prov monitoring effort. AF that the property ow methods and the res 2. The list of 19 build accurate and is in cc 3. The TJPA will arra these buildings with owners. BBII will attra	rveys. BBII will atten ARUP will also provi uding but not limited ill make the initial su review this information or survey at any of t colely responsible for ided and the continue RUP is also responsi- ners concur with the sults. dings previously prov- ponformance with ARI ange for a survey of the attendance of the end with its profession pecifications.	d these surveys to ide monitoring of to, active crack urvey and able to BBII. BBII on and request to he surveyed r the accuracy of ation of the ble for ensuring surveying vided by BBII is UP's list. the outside of e property onal photographer			3. Correct.				
T-0067.1	BSE - Joint Prec	onstruction Survey Foll	ow-Up	Closed	02/06/2012	02/16/2012	02/15/2012	Potential	ly
From: Webcor Const	ruction LP	David Fields	To: Arup	Kevin Clinch	Answered By	Webcor Const	ruction LP David	Fields	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Per 01 15 40 and co provide monitoring in including but not lim will make the initial s monitoring informati	nfirmed within RFI # nformation from adja ited to, active crack survey and subseque on available to BBII.	T-067: ARUP is to icent buildings monitoring. ARUP ent Please provide			ARUP Respor Arup has prov	ise: ided the pre-co	nstruction surveys	to the	
this information.					TJPA via the A be addressed	Architect. The C by the TJPA.	contractor's reques	st will	
T-0067.2	BSE - Monitoring	g Information for 545 Mi	ssion	Closed	02/13/2012	02/13/2012	02/16/2012	Potential	ly 🗌
From: Webcor Const	ruction LP	Joanne Filipas	To: Turner Construction	Compan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Georg	ge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		



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# 30100 - Transbay Transit Center Project

ARUP Response:

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Ref RFI T-0067 and T-0067.1 Please provide the monitoring information from 3/23/2011 through 11/01/2011 as agreed to in response to RFI T- 0067.					George Metzo provided the photographs of made at the r request will be Per Jack Ada Contractor is obligations ar Specification PROPERTY f Contractor wil authenticity of access dates Associates).	ger - ARUP Res TJPA, via the Ar documenting ou equest of the TJ e addressed by ms of Turner Co directed to fulfill id perform the w Section 01 15 4 for all buildings a ll coordinate the f claims by coord with TJPA Repr	ponse: Arup has chitect, the repor r visits which hav PA. The Contract the TJPA. onstruction: their contractual rork described in 0 PROTECTION adjacent to the Pr Joint Survey to e dinating access a resentatives (Sing	ts and re been stor's OF roject. establish and ger	
T-0068	BSE - Soil Encou	untered During Install	ation of Pile Removal Instrumentation	Closed	03/22/2011	04/01/2011	03/25/2011	Potentia	lly
Fr	om: Webcor Construction LP	Nhi Tran	<b>To:</b> Turner Construction Compar	Daphne Faulkner	Answered By	Adamson Asso	ociates, Inc Geor	rge Metzger	
CO-Auti R W in so	<b>EQUEST:</b> Hen ARUP was installing their pile rem strumentation, they recorded the depth pil layers they encountered.	Ural Yai noval is of the various	SUGGESTION:		ANSWER: ARUP Respo Soil log attact	Accept Sug nse: ned.	gestion:		
P	lease provide BBII these depths for the ork.	e pile extraction							
T-0069	BSE - Revised S	horing Wall Layout C	arification	Closed	03/23/2011	04/02/2011	03/28/2011	Potentia	lly
Fr	om: Webcor Construction LP	Nhi Tran	To: Turner Construction Compar	Daphne Faulkner	Answered By	Adamson Asso	ociates, Inc Geor	rge Metzger	
Co-Aut	hor: Balfour Beatty Infrastructure, Inc.	Ural Yal							
R	EQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		

BBII believes there is an issue with some of the information provided regarding the revised shoring wall



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			· <u> </u>				

layout.

The following information was provided on drawing SKGT-0001-R1:

- The (x, y) distances of the intersection of the LOL's of segments X1-1 and R2-1 (Point P on attached sketch) from the intersection of 1-line and J-line: (x, y) = (73'-2 1/4'', 166'-4'').

- The (x, y) distances of the radial center of segment R2-1 (Point C on attached sketch) from the intersection of 1-line and J-line: (x, y) =  $(490'-7 \ 1/4'', \ 640'-10 \ 1/4'')$ .  The radius of the LOL of segment R2-1 as 633'-6''.

The distance between the point P and point C can be calculated with the above information: #61607; #916; X = 490'-71/4" minus 73'-21/4" = 417'-5" = 417.417

 ΔY = 640'-10¼" minus 166'-4" = 474'-6¼" = 474.521 &#61607: D = (&#016:Y2) + &#016:Y2)1/2 = (417,4172)

 D = (ΔX2 + ΔY2)1/2 = (417.4172 + 474.5212)1/2 = 632.053'

Using the distances provided on SKGT-0001-R1 gives a distance of 632.053' between point P and C. This distance must be 633'-6" because it lies along segment R2-1 and the radius of the arc is given. There must be an error in either the radius or one of the other given dimensions. BBII requests an expedited response as this information is critical to our work.

The dimensions to the corner of the LOL where segment X1-1 and R2-1 meet have been revised.

See the attached SKGT-0001-R2.

T-0070 BSE	E - Excavation Pe	rmit for Pre-trenching	in the Public Right of Way	Closed	03/24/2011	04/04/2011	03/25/2011	Potentially
From: Webcor Construction	n LP	Nhi Tran	To: Turner Construction Compan E	Daphne Faulkner	Answered By:	Transbay PMPC	C Alfred	d Lau
Co-Author: Balfour Beatty Infras	structure, Inc.	Ural Yal						
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	estion:	
Reference Specification Section 01 14 10 and attached sheet		d attached			For pre-trenchin acquire excava reimbursable b	ng work, Contra tion permit from / TJPA.	ctor is expected DPW. Permit for	to ee is

BBII would like to confirm the following:



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- BBII is responsible for from the San Francisc of the pre-trench excar - Per Specification Sec TJPA will compensate costs.	or applying for Excava to Department of Public vations in the public r ction 01 14 10 Appen BBII for the excavati	ation Permits lic Works for all ight-of-way. dix (attached), on permit			In addition to t the pre-trench space permit f Fremont, Beal TJPA), and Sp DPT (or Susta	he excavation p ing activity may rom DPW for w e, and 1st (fee a becial Traffic Pe inable Streets D	ermit, please not need to obtain st ork in Minna, Nat also reimbursed t rmit (as required) Division, SFMTA)	te the treet coma, by from	
T-0071	RFI T-0071 - 301 Mis	ssion Screen Wall - Wa	aterproofing at South face	Closed	03/25/2011	04/04/2011	04/05/2011	Potential	ly 🗌
From: Webcor Constru	iction LP	David Hungerford	To: Turner Construction Con	npan Daphne Faulkner	Answered By	URS Corporation	on David	d Fyfe	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: Attached le	etter				Please clarify	this RFI.			
Please see the attach Erik Liu of Transworld	ed letter dated March	16, 2011 by			It is not clear to being requeste recommendat acceptance.	what information ed, nor is it clea ion is being prop	/clarification (if a r if a specific posed/submitted	ny) is for	
T-0072	BSE - Concrete Sid	ewalk and SD Remova	l in Zone 4	Closed	03/30/2011	04/09/2011	04/11/2011	Potential	ly 🗌
From: Webcor Constru	iction LP	Nhi Tran	To: Turner Construction Con	npan Daphne Faulkner	Answered By	Turner Constru	ction Comr Jack	Adams	
Co-Author: Balfour Beatty Ir	nfrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference attached pl and sewer manhole in building	hotos showing concre Zone 4, adjacent to 3	te sidewalk 301 Mission			Demolition Dra D1076, D-120 demolition cor	awings D-1014, 2, D-1206 , D-12 atract.	D1060, D-1063, 215 define extent	D-1072, of	
The sidewalk and sew is not in the BSE conti removed prior to pre-ti their pre-trenching act	rer manhole (as seen ract work and will nee renching. BBI is sche ivities on 04/11/2011.	in the photos) d to be duled to start			Refer to Contr D1001 Notes	act and BSE Dr for BSE Demolit	awings D-0001 a ion scope.	nd	
Please advise.									


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T-0073	BSE - Request	for Response Spectra		Closed	03/30/2011	04/09/2011	04/07/2011	Potentiall	у 🗌
From: Webco	Construction LP	Nhi Tran	To: Turner Construction Compar	Daphne Faulkner	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author: Balfour	Beatty Infrastructure, Inc	c. Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Sp	ecification Section 01 53	3 13			ARUP Respon	nse.			
During a mee was expresse generated by bridges. It wa be in place fo permanent st not be suitabl for a ground r in 50 years as with a 7.5% p	ting with the San Francis of that BBII must use res ARUP in the design of the s also noted that if the br r over 5 years, the design ructure and the specified e. Therefore, BBII request notion with a 10% probat s specified, as well as for robability of exceedence	aco DBI & DPW, it ponse spectra ne temporary ridges are going to n must be for a ground motion may sts response spectra bility of exceedence a ground motion in 75 years.			This request r will provide th Adamson Cor The meeting r The purpose meeting is to have a comm information ar	needs to be disc is in time for Tur mment: of delivering the confirm that the on understandir nd the data bein	ussed in more de esday's meeting. e held on April 12 e information in th Contractor and A g of the requeste g transmitted.	etail. We 2, 2011. e .rup .d	
T-0073.1	BSE - Request	for Response Spectra		Closed	03/30/2011	04/09/2011	04/14/2011	Potential	У
From: Webco	Construction LP	Nhi Tran	To: Turner Construction Compar	Daphne Faulkner	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author: Balfour	Beatty Infrastructure, Inc	c. Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Re	esponse to RFI#T-0073				ARUP Respor	nse:			
During a mee was expresse generated by bridges. It wa be in place fo permanent st not be suitabl for a ground r in 50 years as with a 7.5% p	ting with the San Francis of that BBII must use res ARUP in the design of th s also noted that if the br r over 5 years, the design ructure and the specified e. Therefore, BBII request notion with a 10% probal s specified, as well as for robability of exceedence	to DBI & DPW, it ponse spectra the temporary ridges are going to n must be for a ground motion may sts response spectra bility of exceedence a ground motion in 75 years.			Attached are: 1. Arup Amec ( base of struct structure East horizontal spe giving scale fa these spectra do not include will occur prog 2. Output from temporary (1 if 301 Mission, a the Kobe bedl horizontal acco shoring wall. Ta accelerations to be 0.8s) of	(2010) report T cture West end of tend of box), 3 ctral acceleratic actors for near-fa exclude structure the progressive gressively in the n LS Dyna dyna in 100 year retur adjacent Fremor rock and far-field celeration spectr This produces in at the fundame the Contractor's	ables 3-3(bedroc of box), 3-7b (bas 9 (ratio vertical to ault effects. Note ral interaction eff e softening effect Old Bay Clay. mic analyses of t m period) condition that Street abutmen d motions to gene um at the top of to creased spectral notal period ( under bridge structure	k), 3-7a se of ble 3-4 that ects and s that he on at nt, using erate the he rstood	

Arup recommends that a meeting be held to review



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					and discuss the examined the	nese after the Co n.	ontractor's engin	eer has	
T-0074	301 Mission Wa	II - Nelson Stud and Stirrup	Locations	Closed	04/01/2011	04/11/2011	04/01/2011	Potential	У
From	Webcor Construction LP	David Hungerford	To: Turner Construction Company	Daphne Faulkner	Answered By	URS Corporati	on Davi	d Fyfe	
Co-Author	JEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Per fi to ins front where dowe the in points This is rec	elice. RFI 1-0027 eld conversation, please confirm th tall/weld nelson studs at 9" on cen of the vault intrusions into the cond e the #8 size dowels are also spac FI T-0027. The Nelson Stud spaci l embeddment locations. This spac stallation of rebar stirrups and pro s, one being the dowel, and the oth work is currently ongoing and imm- uested. Please confirm this layout	hat it is acceptable iter at locations in crete stem wall, ed at 9" on center, ng will match cing also facilitates vides two tie her the nelson stud. ediate confirmation r is acceptable.			Ndustry stand added tie reba requirements This RFI is a r bars from 12" spaced at 9" of We note this r Contractor and reducing the s o.c. to 9" o.c. Accordingly, n schedule will t Contractor red schedule asso stud bars shal David Fyfe, 04 	and practice is t ar (e.g. #3 or #4 to tie reinforcem equest to chang o.c. to 9" o.c. (v o.c.) in lieu of us equest is for coid d on this basis to pacing of the ne (where #8 dowe to change in cor be provided to a guest. All impact bociated with redu l be borne solely 4/01/2011 issued for work son stud spacing vels are spaced 4/01/2011	bar) to provide for bar) to provide for bar) to provide for ent bars as requ the spacing of nel- where #8 dowels e of added tie bar novenience of the ake no exception elson stud bars fr ls are spaced at thract and/or exter commodate this s including cost is including cost is including cost is promodate this source spacing of y by the Contract associated with g from 12" o.c. to at 9" o.c.).	the box box box box box box box box	
T-0075	BSE - Specificat	tion Section 32 12 17 and 32	12 18	Closed	04/04/2011	04/14/2011	04/05/2011	Potential	у
From	Webcor Construction LP	Nhi Iran	Io: Turner Construction Company	Daphne Faulkner	Answered By	Transbay PMP	C Alfre	d Lau	
Co-Author	JEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		



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## 30100 - Transbay Transit Center Project

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We noticed th been revised to 1. Please com "STREET EX0 unchanged be 2. Please com continue to us TJPA shall rev specification s	at the Specification 32 12 to 32 12 18 in the IFC Do firm that the content of th CAVATION AND RESTO etween pre-bid and post-b firm that the Trade Subco e the Specification Numb vise the Table of Contents ections referring to "32 1	2 17 at the bid has cument. e specification RATION'' was bid. ontractor shall ber 32 12 18 and s and other 2 17.''			<ol> <li>Confirmed. specification w and issued as Pavement Res trade package</li> <li>Confirmed. Pavement Res packages, and</li> </ol>	Street Excava vas issued as 32 32 12 18 to avo storation specifies. As stated abov storation sectior d is not applicab	tion and Restorat 2 12 17 in the IFE bid duplication wit cation for the Util re, 32 12 17 is for h for the Utilities t le for TG03 Work	ion s set, h the ties rade	
T-0076	BSE - Footing a	and Pile Removal at Ben	t 59 - 61	Closed	04/04/2011	04/14/2011	04/11/2011	Potentia	ily
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction	Compan Daphne Faulkner	Answered By	:Turner Constru	ction Comr Jack	Adams	
Co-Author: Balfour	Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Sh and Spec Sec	eet D-1072, D-1030, D-10 tion 01 35 65	046, and D-5103			Demolition of Demolition Co 01/04/10 and	both Bent 59 an ntract Drawing I	d 61 was comple D-1046 Rev.0 Da	ted per ted	
Please advise 28-2011 have Contract: - Bent 59-61 - piles as requir grade comple	the following as discusse been completed per the Removal of columns, foc ed to complete 4'x4' x13' te and backfilled. (Refer t	ed with BBII on 03- Demolition otings and timber excavation below o drawings D-1072,			Bent footings below grade p Locations of th determined by Lighting).	were demolishe er drawing D-10 hese Utility Pole SFMTA (MUNI	d to the minimum 146 and applicabl Foundations wer ) and BLHP (Stre	a 3 feet e notes. re et	
D-1030, D-104	+0).				The three (3) I Foundations h excavated to a "pulled." Pile of pile as requ depth.	ocations total fo ad the bent fool a depth of 13' (+ removal consist ired to install the	or the new Utility I tings removed an /-). Wood piles w ed of removing th e pole foundation	Pole d were ere not he top s to	
T-0077	BSE - Monitorir	ng Plans and Data for Zo	one 4 and Lot N	Closed	04/04/2011	04/14/2011	04/11/2011	Potentia	ily 🗌
From: Webcor Co-Author: Balfour	Construction LP	Nhi Tran Ural Yal	To: Turner Construction	Compan Daphne Faulkner	Answered By	Turner Constru	iction Comr Jack	Adams	

**REQUEST:** 

Reference Specification Section 01 35 65

#### SUGGESTION:

ANSWER: Accept Suggestion:

Project "110 - Existing Terminal Building & Ramps Project" in Constructware contains the following



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А	s discussed at the site walk through mee	ting on 03-28-			submittals with	the monitoring	data requested-		
20 cc dc Z	011 with BBII, BBII requests a copy of the ontract monitoring plan and any data in reemolition contract mitigation monitoring contract and the second	e demolition elation to f Lot N and			1. 011540-02.0 Fremont St 2. 011540-04.0 Fremont St	Pre-Construct	ction Survey - 181	)	
					Note: 301 Miss access therefo	ion did not prov re data is not a	vide the demo cor vailable for this pr	ntactor roperty.	
T-0078	BSE - Timber Piles	Not Yet Surveyed by EBI		Closed	04/04/2011	04/14/2011	04/12/2011	Potential	ly 🗌
Fr	rom: Webcor Construction LP	Nhi Tran	To: Turner Construction Compan	Daphne Faulkner	Answered By:	Turner Constru	ction Comr Jack	Adams	
Co-Aut	hor: Balfour Beatty Infrastructure, Inc.	Ural Yal							
R	EQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
R	Reference attached photos and sketch	traction area			Demolition Cor as part of demo	ntractor expose olition and was	d tops of wooden not required to su	piles ırvey	
ai ne of he	nd exposing the timber piles on 03/31/11 ot surveyed by EBI were discovered on th f the TPE area close to pile 215053. Plea ow to proceed.	, piles that were ne eastern side ise advise on			BBII should fol Removal Para documentation	low contract Sp 1.4 and provide	ec 02-41-19 Pile e existing timber p	bile	
					Each pile over force account ( in accord with (	contract quanti unless parties CCO no. T-001	ty will be reimburs can agree on a ur Rev 2 dated 4/8/	sed as nit rate) 11.	
T-0079	BSE - Existing Stro	eet Light Footing Location	s	Closed	04/04/2011	04/14/2011	04/11/2011	Potential	ly
Fr	om: Webcor Construction LP	Nhi Tran	To: Turner Construction Compan	Daphne Faulkner	Answered By:	Turner Constru	ction Comr Jack	Adams	
Co-Aut	hor: Balfour Beatty Infrastructure, Inc.	Ural Yal							
R	EQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
R	Reference Specification Section 02 41 01	ting 03-28-2011			Spec 02-41-00 and Demolition	is the Spec for Drawing D-108	Demolition Contr 84 scopes the Lig	actor hting	
A W Po tii re	vith BBII, the pre-existing street light poles er demo contract. BBII was told the found mber piles for the pre-existing street light emoved.	s were relocated dations and s have not been			All Pre-existing Contract Drawi There are no p	street lights so ngs were demo re-existing light	coped in the Demo olished and remov s, street light	olition ved.	



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## 30100 - Transbay Transit Center Project

Number	Subject				Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Please provide BBII pre-existing street lig foundations will nee installation, if a conf	with as-built drawings ght locations. Pre-exis d to be removed befor lict is identified.	indicating the ting streetlight e CDSM wall				foundations or installed that w Demolition Co	OCS pole foun vere contracted ntractor.	dations remaining for demolition by		
,						The (3) three L located at Frer are on "Portab concrete found	ight Poles and nont St. per De le Foundations' lations).	Light Pole Founda molition Drawing [ ' (versus poured	ations D-1084	
						The (3) three L located on Firs are on poured basement floo	ight Poles and t St. per Demol underground fo r.	Light Pole Foundation Drawing D-10 undations anchore	ations 084 ed to	
						This is less sc have to discon were located ir of these Portal underground fo were determin Lighting).	ope for BSE Co nect and demo n the Frmont St ole Light Poles oundation Light ed by SFMTA (	ntractor who will n lish pole foundatio . excavations. Loo at Fremont and OCS Poles on Fir MUNI) and BLHP	ot ns that cations st St. (Street	
Т-0080	BSE - Additional T	imber Piles Not Sur	veved by EBI		Closed	04/04/2011	04/14/2011	04/12/2011	Potentia	Iv 🗔
From: Webcor Cons	truction LP	Nhi Tran	To: Turner	Construction Compa	n Daphne Faulkner	Answered By	Turner Constru	ction Comr. lack	dams	
Co-Author: Balfour Beatty	Infrastructure, Inc.	Ural Yal				,				
REQUEST:			SUGGESTI	ON:		ANSWER:	Accept Sug	pestion:		
Reference RFI#T-00 While BBII was exca	)78 and attached photo avating the trial pile ex	os and sketch traction area		-		BBII should fol Removal Para documentation	low contract Sp 1.4 and provide	ec 02-41-19 Pile existing timber p	ile	
and exposing the tin were not surveyed b southern side of the 215043 and in the c shown in the attache was extracted due t additional piles have advise BBII on how	TPE piles on 04/01/20 by EBI were discovered TPE area close to pile entre of the TPE area ed drawing. The pile nu- pits proximity to 2150 e now been discovered to proceed.	11, piles that d on the es 215044, at 215054, as ext to 215054 54. A total of 7 I to date. Please				Each pile over force account in accord with	contract quanti (unless parties CCO no. T-001	ty will be reimburs can agree on a un Rev 2 dated 4/8/1	ed as it rate) 1.	

Closed



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From: Webcor	r Construction LP	Nhi Tran	To: Turner Construction Cor	npan Daphne Faulkner	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author: Balfour	Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference att	ached sheet SKGT-0001-R	1			ARUP Respor	nse:			
The dimensio segments 1-1 shoring wall a reference. Ple	n from gridline J to the inter and X1-1 was not updated lignment - see attached dra ease provide the correct dim	section of wall for the revised wing for iension.			The dimension SKGT-0001-R	ns have been re 3.	vised. See the at	tached	
T-0082	BSE - Hazardous	Material Removed F	rom Site	Closed	04/05/2011	04/15/2011	04/11/2011	Potentia	lly
From: Webcor	r Construction LP	Nhi Tran	To: Turner Construction Cor	npan Daphne Faulkner	Answered By	Turner Constru	uction Comr Jack	Adams	
Co-Author: Balfour	Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Sp	pecification Section 00 03 35	5			Above ground	structures and	foundations were		
Please confirm removed from drawings for 2	m that all hazardous materia in site per the extent of demo Zone 4 and Lot N	al has been plition contract			demolished at feet. Demolitio was complete	t Parcel N, incluion contract Haza d including 133	ding footings to n ardous materials Beale st. Bar and	ninus 3 scope I Grille.	
					Refer to Demo 1013, D-1029 extent of remo material.	olition Drawings , D1030, D1044 oval of structure	D-1011, D-1012, -1046 and D-125 s and hazardous	D- 2 for	
T-0083	BSE - Existing Ut	ilities Decommissior	ing Lot N and Zone 4	Closed	04/05/2011	04/15/2011	04/13/2011	Potentia	lly
From: Webcor	r Construction LP	Nhi Tran	To: Turner Construction Cor	npan Daphne Faulkner	Answered By	Turner Constru	uction Comr Jack	Adams	
Co-Author: Balfour	Beatty Infrastructure, Inc.	Ural Yal			-		·		
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Sh 01	eet D-2230 and Specification	on Section 02 41			Parcel N: Exis (e.g. cut and c which only is ?	siting Utilities we cap) in accord w 133 Beale st. Ba	ere decommission ith Contract Drav ar and Grille per I	ned vings D-1252.	
Please provid utilities in Lot	le as built drawings for all de N and Zone 4 to BBII.	ecommissioned			Parcel D Zone decommissior Contract Dem 1206, D-1207	e 4 : Exisiting Ut ned (e.g. cut an olition Drawings , D-1210, D-121	ilities were d cap) in accord D-1202, D-1203 5	with , D-	
					However: Two Sewer Conne D-1206 were a	o (2) locations of ctions ("SEWEF as left unplugge	f Existing Combin R") shown on D-1 d to assist BBII w	ied 202 and <i>i</i> ith	



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						Dewatering dis as follows: "3/I 1206 and "-/- S Corner of Lot I	charge pipes. L D-1210 SEWER SEWER" on she D; no detail num	ocations are ide " on sheets D-12 ets D-1202, D-12 ber provided).	ntified 202, D- 206 (NE	
						Demolition Cor of Contract and as-built drawin available in De your viewing.	ntractor has not d therefore has gs in Constructor molition Contra	completed their not submiited the ware. However, t ctor's trailer offic	scope eir final hey are e for	
T-0083.	.1	BSE - Existing Utili	ties Decommissi	oning Lot N and Zone 4	Closed	04/05/2011	04/15/2011	05/24/2011	Potential	у 🗌
F	rom: Webcor Const	ruction LP	Nhi Tran	To: Turner Construction	Compan Daphne Faulkner	Answered By:	Turner Constru	ction Comr Jack	Adams	
Co-Au	thor: Balfour Beatty	Infrastructure, Inc.	Ural Yal							
I	REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
l	Reference Response Specification Sectior	e to RFI#T-0083, Shee n 02 41 01	t D-2230 and			Demolition Cor at Parcel N.	ntractor has no	Utility Demolition	scope	
- a t	The following respon and will become out process: "they are av trailer office for your	se of RFI T-0083 is no of control of the RFI do vailable in Demolition ( viewing."	t acceptable ocumentation Contractor's			Demolition Cor Demolition sco drawings exce	ntractor has con pe at Parcel D pt where agreed	npleted Utility (Zone 4) per con I by BBli.	tract	
	Please provide BBI w which has been deco Zone 4 to BBII.	with as built drawings f commissioned to date ir	or all utilities I Lot N and			These as-built currently under will be issued t this review is c	Utility Demolitic review by the I o Webcor/Obay omplete.	on Drawings are Engineer of Reco vashi for their use	ord and e after	
T-0084		BSE - Existing Stor	m Drains Decom	missioning in Lot N	Closed	04/05/2011	04/15/2011	04/11/2011	Potential	y
F	From: Webcor Const	ruction LP	Nhi Tran	To: Turner Construction	Compan Daphne Faulkner	Answered By:	Turner Constru	ction Comr Jack	Adams	
Co-Au	thor: Balfour Beatty	Infrastructure, Inc.	Ural Yal							
I	REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
I (	Reference Sheet D-2 01	2230 and Specification	Section 02 41			Parcel N: Exist (e.g. cut and ca which only is 1	ing Utilities wer ap) in accord wi	e decommission th Contract Drav	ed vings 0-1252	
-	There are 2 existing	storm drain basins in l	ot N not yet			Which only is i	oo beale of. De			

decommissioned. Please provide BBII the status of

There are two Storm Drain outlets on parcel N and



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decommissioning	or modification of thes	e lines.			their status' a scope of the o Basin at Beal Demolition Co observed drai rainy season.	re unknown bec demolition contra e Street Bar & C ontractor RFI -00 ning the water fi	ause they are ou actor. Unforeseer Grill is identified u 0058. These have rom parcel N duri	iside the ) Catch nder ⇒ been ng the	
T-0084.1	BSE - Existing S	torm Drains Decommiss	ioning in Lot N	Closed	04/21/2011	05/01/2011	05/02/2011	Potentia	ly 🗌
From: Webcor Co	nstruction LP	Nhi Tran	To: Turner Construction	Compan Daphne Faulkner	Answered By	:Turner Constru	uction Comr Jack	Adams	
Co-Author: Balfour Bea	atty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference RFI#T Specification Sec RFI response T-0 decommissioning that the SD drain conflict with the 0 decommissioning	-0084, Drawing Sheet I tion 02 41 01 1084 has not provided c these SD lines. The dr flows towards Beale St CDSM wall. Please advis the above SD lines.	D-2230, and clear direction for rawings indicate treet and will se on status for			As stated in ro Storm Drain of unknown bec demolition co Beale Street I Contractor RF This is outsid BSE contract Utilities Projec	esponse to RFI outlets on Parce ause they are ou ntractor. Unfore: Bar & Grill is ide FI -00058. e the scope of th . Webcor-Obaya ct Manager will I	T-0084 there are I N and their statu utside the scope of seen Catch Basir ntified under Den ne Demolition and ashi RUP relocation be contacted for the	two is' are of the i at nolition d the on of reroute	
					or decommiss drain lines.	sioning these Pa	arcel N parking lo	: storm	
T-0085	BSE - Existing S	ite Conditions Lot N		Closed	04/05/2011	04/15/2011	04/11/2011	Potential	ly 🗌
From: Webcor Co	nstruction LP	Nhi Tran	To: Turner Construction	n Compan Daphne Faulkner	Answered By	Construter	uction Comr Jack	Adams	
Co-Author: Balfour Bea	atty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Specif Prior to demolitio paving, however paved. BBII assu original condition	ication Section 01 15 4 n work Lot N surface co a majority of the Lot is r mes that the lot will be Please confirm	0 onsisted of asphalt not currently restored to its			Demolition Co areas specifie (areas such a in the demolit demolition co removal of be crushed/proco Refer to draw	ontractor was no ed for demolition is Parcel N). Th ion Contract dra ntractor is requi low grade struct essed demolition ing D-1029 Note	t required to rest with asphalt pay is was not specif wings or Spec. T red to backfill afte tures with recycle n concrete. For P e 9.	ore ing ed for he r d arcel N -	



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T-0086	BSE - Clean Debris	From Adjacent Buildings	To Lot N and Zone 4	Closed	04/05/2011	04/15/2011	04/11/2011	Potentia	lly
From: Webcor Constr	ruction LP	Nhi Tran	To: Turner Construction Compan	Daphne Faulkner	Answered By	Turner Constru	iction Comr Jack	Adams	
Co-Author: Balfour Beatty	Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Specificat	ion Section 01 15 40				Confirmed. De	emolition contra	ctor has satisfied	the	
Please confirm that c requirement to clean demolition contract to building owners, and cleaning dust and de operations, after the	demolition contractor h all dust and debris ge to the satisfaction of th BBII will only be resp bris generated by BBI turnover of these are	has satisfied the enerated by e adjacent onsible for I during its own completed.			demolition co building owne conversation	o clean all dust a htract to the sati rs to date. This with both EBi an	and deoris gener sfaction of the ac was confirmed th d Singer Associa	ated by Jjacent Irough ates.	
T-0087	BSE - Zone 4 Gate			Closed	04/05/2011	04/15/2011	04/11/2011	Potentia	lly
From: Webcor Constr	ruction LP	Nhi Tran	To: Turner Construction Compan	Daphne Faulkner	Answered By	Turner Constru	iction Comr Jack	Adams	
Co-Author: Balfour Beatty	Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Demo Cor	ntract Drawings				Demolition Co	ontractor second	16 foot gate elir	ninated	
Per note 5 on drawing each discreet fenced	g D-1006 of the demo area shall have a mir	lition contract, nimum of two			due to Fremo used alternate from parcel D	nt Shoring wall. e means and me Zone 4.	thods for truck ti	actor affic to-	
16ft gates at the conc zone 4 only has one	clusion of demolition v gate in place. BBII red	vork. Currently, quests an			That said, De	molition contract	or has offered g	ate	
additional gate be pro	ovided on the Fremon	t St. side of linate an ideal			credit which c	ould be used to	install a 16 wide	gate	
location.					Beale St. fend	e line. However	- Demolition con	tractor	
					would not be i parking meter	esponsible for c s or other ancilla	urb cut, removal ary scope if Beal	of e St.	
					gate is chose	n - that would be	the responsibilit	y of	
					barrier fence a	and gates as ne	eded per your co	ntract.	
					A field coordir Street Coordir	nation meeting a nation meeting is	fter the Monday s recommended.	4/11/11	
T-0088	BSE - Temporary S	horing Wall and Buttress	Conflict	Closed	04/06/2011	04/16/2011	04/08/2011	Potentia	lly
From: Webcor Constr	ruction LP	Nhi Tran	To: Turner Construction Compan	Daphne Faulkner	Answered By	Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author: Balfour Beatty	Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		

Reference Sheet GT-2201 and Specification Section 31  $\mathbf{63}$  29

ARUP Response:

This issue was discussed at yesterday's (4/6/11) BSE



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The temporary s contract was me an unknown exi of the wall now of buttress shaf column C shafts shoring wall alig formation be me	shoring wall installed under oved East away from Fren sting concrete wall. The a falls along the edge of the ts. In an effort to avoid cor s generated by the revised noment, BBII suggests that oved 12" East.	er the demolition nont St. to avoid s-built alignment third column (C) nflicts with d temporary t the buttress			meeting. The Contractor's d to evaluate the consider other	information whi rilled shaft work e feasibility of th r options.	ch will be include plan is needed b e proposed shift	d in the by Arup and to	
T-0088.1	BSE - Temporary	Shoring Wall and Butt	ress Conflict	Closed	04/06/2011	04/16/2011	04/20/2011	Potential	lly
From: Webcor C	Construction LP	Nhi Tran	To: Turner Construction	n Compan Daphne Faulkner	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger	
<b>Co-Author:</b> Balfour Be	eatty Infrastructure, Inc.	Ural Yal							
REQUEST: The response for question Please provide the submittal an	or RFI #T-0088 was not ar an appropriate direction to d the work as soon as po	n answer to the o start preparing ssible.	SUGGESTION:		ANSWER: The contracto structure up to order to clear shoring wall. new layout an construction.	Accept Sug r may relocate to 12 inches east any conflict with Contractor is re d any impacts p	gestion: he entire buttress t of the design loo n the Fremont Str quested to identif prior to start of bu	s cation in eet fy the ttress	
Reference Shee 63 29	et GT-2201 and Specificat	ion Section 31							
The temporary s contract was me an unknown exi of the wall now of buttress shaft column C shafts shoring wall alig formation be me	shoring wall installed under oved East away from Fren sting concrete wall. The a falls along the edge of the ts. In an effort to avoid con a generated by the revised inment, BBII suggests that oved 12" East.	er the demolition nont St. to avoid s-built alignment third column (C) nflicts with I temporary t the buttress							
T-0088.2	BSE - Temporary	shoring wall and buttre	ess conflict	Closed	04/06/2011	04/27/2011	04/25/2011	Potential	lly 🗌
From: Webcor/C	bayashi Joint Venture	Nhi Tran	To: Turner Construction	n Compan Daphne Faulkner	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author: Balfour Be	eatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		

The response for RFI #T-0088.1 was not an acceptable

ANSWER:

ARUP Response:



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answer to the question.

Please provide exact revised layout as required.

The Buttresses have exact Coordinate Locations to define the layout, as shown on GT-2201.

The existing coordinates must be changed to reflect the new layout the TJPA desires.

History

Information from RFI#T-0088.1

The response for RFI #T-0088 was not an answer to the question Please provide an appropriate direction to start preparing the submittal and the work as soon as possible. Answered By: George Metzger Answered On: 20-Apr-2011 Answer: The contractor may relocate the entire buttress structure up to 12 inches east of the design location in order to clear any conflict with the Fremont Street shoring wall. Contractor is requested to identify the new layout and any impacts prior to start of buttress construction.

Information from RFI#T-0088

Reference Sheet GT-2201 and Specification Section 31 63 29

\_\_\_\_\_

The temporary shoring wall installed under the demolition contract was moved East away from Fremont St. to avoid an unknown existing concrete wall. The as-built alignment of the wall now falls along the edge of the third column (C) of buttress shafts. In an effort to avoid conflicts with column C shafts generated by the revised temporary shoring wall alignment, BBII suggests that the buttress formation be moved 12" East. Suggestion Cost Impact Potentially Cost Amount Schedule Impact Potentially Days The Contractor's cover sheet describes this as RFI 0088.2, but the correct number is 0088.3.

See attached SKGT-0002.



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Answered By Ge Date Answered 2 Answer The cont structure up to 12 order to clear any wall. Contractor is any impacts prior	orge Metzger 2011-04-20 ractor may relocate the inches east of the desig conflict with the Fremo requested to identify th to start of buttress cons	entire buttress gn location in nt Street shoring ie new layout and struction.							
T-0088.3	BSE - Temporary	shoring wall and but	ress conflict	Closed	04/06/2011	04/27/2011	04/25/2011	Potential	у 🗌
From: Webcor Co	nstruction LP	Nhi Tran	To: Turner Construction	Compan Daphne Faulkner	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author: Balfour Bea	tty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
The response for	RFI #T-0088.1 was not	an acceptable			ARUP Respor	ise:			
Please provide ex	act revised layout as re	quired.			The Contracto 0088.2, but the	r's cover sheet e correct numbe	describes this as er is 0088.3.	RFI	
The Buttresses hat the layout, as sho	ave exact Coordinate Lo wn on GT-2201.	ocations to define			See attached	SKGT-0002.			
The existing coord new layout the TJ	dinates must be change PA desires.	d to reflect the							
History									
Information from	RFI#T-0088.1	_							
The response for question Please provide ar the submittal and Answered By: Ge Answered On: 20 Answer: The contractor ma up to 12 inches er any conflict with th Contractor is require	RFI #T-0088 was not ar appropriate direction to the work as soon as po orge Metzger -Apr-2011 ay relocate the entire bu ast of the design locatio he Fremont Street shori tested to identify the new tart of buttress construct	n answer to the o start preparing ssible. ttress structure n in order to clear ng wall. w layout and any tion.							



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Information from RFI#T-0088

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Reference Sheet GT-2201	and Specification Section 31
63 29	

The temporary shoring wall installed under the demolition contract was moved East away from Fremont St. to avoid an unknown existing concrete wall. The as-built alignment of the wall now falls along the edge of the third column (C) of buttress shafts. In an effort to avoid conflicts with column C shafts generated by the revised temporary shoring wall alignment, BBII suggests that the buttress formation be moved 12" East. Suggestion Cost Impact Potentially Cost Amount Schedule Impact Potentially Days Answered By George Metzger Date Answered 2011-04-20 Answer The contractor may relocate the entire buttress structure up to 12 inches east of the design location in order to clear any conflict with the Fremont Street shoring wall. Contractor is requested to identify the new layout and any impacts prior to start of buttress construction.

0089 BSE - Existing Asphalt and Concrete		Removed Zone 4	Closed	04/06/2011	04/16/2011	04/11/2011	Potentially	
From: Webcor Construction	LP	Nhi Tran	To: Turner Construction Co	mpan Daphne Faulkner	ner Answered By: Turner Construction Comr Jac		iction Comr Jacl	k Adams
Co-Author: Balfour Beatty Infrast	ructure, Inc.	Ural Yal						
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:	
Reference Sheet D-1001 and Demo Contract Dwgs D- 1060, D-1072 and attached photos Please see attached photos showing asphalt pavement at the entrance to zone 4 on the northeast corner. The referenced asphalt driveway is not in the BSE contract					The asphalt p the northeast scope. Contra footings and n contract drawi for best depict	avement at the corner is not in corner is not in ct scope include nat slab to be re ngs. Refer to de tion of extent of	entrance to zone demolition contr ed concrete colu moved as defin- emolition drawing demolition.	e 4 on act imns, ed in g D-1058
work and will need to be rer	novea. Please	e advise.			Refer also to I 1063 and D-1	D-1014, D-1030 072	, D-1058, D-106	0, D-



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Т-0090	BSE - Timber Pile	s Not Surveyed By EBI	04/04/11	Closed	04/06/2011	04/16/2011	04/13/2011	Potentiall	у 🗌
From: Webcor Con	struction LP	Nhi Tran	To: Turner Construction Compa	an Daphne Faulkner	Answered By	Turner Constru	uction Comr Jack	Adams	
Co-Author: Balfour Beatt	ty Infrastructure, Inc.	Ural Yal							
REQUEST: Reference attached While BBII were ex and exposing the ti were not surveyed side of the TPE are western side of the attached drawing. due to its proximity have now been dis to proceed.	SUGGESTION:		ANSWER: Accept Suggestion: BBII should follow contract Spec 02-41-19 Pile Removal Para 1.4 and provide existing timber pile documentation. Each pile over contract quantity will be reimbursed as force account (unless parties can agree on a unit rate) in accord with CCO no. T-001 Rev 2 dated 4/8/11.						
T-0091 From: Webcor Cons	Reciept of Constr struction LP	ruction Documents David Hungerford	To: Turner Construction Compa	Closed an Daphne Faulkner	04/06/2011 Answered By	<b>04/16/2011</b> Transbay PMP:	<b>04/08/2011</b> PC Alfre	Potentiall ed Lau	у 🗌
Co-Author:									
REQUEST: Per the 110325_M transmitted to Web discussed in the O the following dates monthly schedule o 1. Webcor/Obayas on August 24, 201 2. Webcor/Obayas on December 2, 20	STR_CD_Work_Plans cor/Obayashi on Marc AC Meeting on April 6, should be implemente update: hi will receive the 90% 1 hi will receive the 1009 011	schedule, h 28, 2011 and 2011; confirm ed in the next CD documents % CD documents	SUGGESTION:		ANSWER: Confirm. The provided by th	Accept Sug se are the curre le Design Team	gestion:	tes	
T-0092	BSE - Timber Pile	s Not Surveyed By EBI	4/5/11	Closed	04/06/2011	04/16/2011	04/13/2011	Potentiall	у 🗌
From: Webcor Cons	struction LP	Nhi Tran	To: Turner Construction Compa	an Daphne Faulkner	Answered By	Turner Constru	uction Comr Jack	Adams	
Co-Author: Balfour Beatt	ty Infrastructure, Inc.	Ural Yal							
REQUEST: Reference attached While BBII was exc and exposing the ti	d photos and sketch cavating the trial pile e: mber piles on 4/5/11	xtraction area	SUGGESTION:		ANSWER: BBII should fo Removal Para documentation	Accept Sug Illow contract Sp a 1.4 and provide n.	gestion: bec 02-41-19 Pile e existing timber	e pile	



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that v south 2150 west in the addit advis	were not surveyed by EBI we hern side of the TPE area clo 44. Following this, four addit of the area adjacent to 2150 e attached drawing were disc ional piles have now been di e on how to proceed.	ere discovered on the ose to piles 215043 and tional piles to the north 067 and 215068 as shown covered. A total of 16 iscovered to date. Please			Each pile over force account in accord with	contract quant (unless parties CCO no. T-001	ity will be reimbur can agree on a u Rev 2 dated 4/8/	sed as nit rate) 11.	
T-0093	BSE - CDS	SM Wall Segment 35-1 Spacir	ng Confirmation	Closed	04/07/2011	04/17/2011	04/08/2011	Potential	ly
From	Webcor Construction LP	Nhi Tran	To: Turner Construction Com	npan Daphne Faulkner	Answered By	Adamson Asso	ociates, Inc Georg	ge Metzger	
Co-Author	Balfour Beatty Infrastructur	e, Inc. Ural Yal							
REQ	UEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Refe Secti	rence Sheets GT-2103, GT- on 31 56 13	5101 and Specification			ARUP Respor	ise:			
In dra is sp secti (Wal (mea dime wall a Pleas	awing GT-5101, the spacing ecified as 4'-0". This is reflect ons of the CDSM shoring wa Segment 35-1). The beam sured in AutoCad) is 3.9472 nsion bust of approximately and significant problems bas se verify the spacing of beam	of all shoring wall beams ted in the drawings for all all except the east wall spacing of this Segment (8'. This creates a 2.4' over the length of the sed on the auger spacing. Ins in Wall Segment 35-1.			The spacing c dimension in t noted). The C drawings. Adc part of the cor not to obtain c	f the soldier pile he documents ( ontractor is rem litionaly, the Au tract document limensions off th	es shall be the sta 4'-0", unless othe inded to not scale toCad dwg files an s and the Contrac ne electronic files.	ted rwise e the re not ctor is	
T-0094	BSF - Tim	ber Piles Not Surveyed By Fl	31 04-06-11	Closed	04/08/2011	04/18/2011	04/13/2011	Potential	
From	:Webcor Construction LP	Nhi Tran	<b>To:</b> Turner Construction Corr	npan, Daphne Faulkner	Answered By	:Turner Constru	uction Comr Jack	Adams	.,
Co-Author	Balfour Beatty Infrastructur	e, Inc. Ural Yal			,				
RFQ	UFST		SUGGESTION			Accent Sug	gestion.		
Refe	rence attached photo and sk	tetch	000020110111		BBII should fo	llow contract Sp	bec 02-41-19 Pile		
While and e was f draw now proce	BBII were excavating the transvortight of the second second close to 215068 as shing and photos. A total of 17 been discovered to date. Pleased.	rial pile extraction area 4/6/11, an additional pile own on the attached additional piles have ease advise on how to			Removal Para documentation Each pile over force account in accord with	1.4 and provid n. contract quant (unless parties CCO no. T-001	e existing timber p ity will be reimbur can agree on a ur Rev 2 dated 4/8/	bile sed as hit rate) 11.	



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T-0095	BSE - Zone 1 C	DSM Test Section Reloo	ation	Closed	04/11/2011	04/21/2011	04/14/2011	Potentiall	у 🗌
From: Webcor Co	onstruction LP	Nhi Tran	To: Turner Construction Con	npan Daphne Faulkner	Answered B	:Adamson Ass	ociates, Inc Geo	rge Metzger	
Co-Author: Balfour Be	atty Infrastructure, Inc	. Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Sheet and attached dra	t GT-2101, Specificati awing	on Section 31 56 13			ARUP Respo This is accep	nse: table.			
Per discussion w 2011 Design Coo willing to conside as shown on Dw BBII and DND C relocate the Zon shown on the att confirm.	with ARUP at the Wed ordination Meeting, the er relocating the Zone g. GT-2101 from Zone onstruction are therefor e 1 CDSM test panel t cached drawing, near g	nesday April 06, e Engineer was 1 CDSM test panel e 1 and into Zone 2. ore proposing to to the location gridline 10. Please							
T-0096	BSE - Old Exis	ting Footing Along 301 I	lission in Zone 4	Closed	04/11/2011	04/21/2011	04/12/2011	Potentiall	У
From: Webcor Co	onstruction LP	Nhi Tran	To: Turner Construction Con	npan Daphne Faulkner	Answered B	:Turner Constru	uction Comr Jack	Adams	
Co-Author: Balfour Be	atty Infrastructure, Inc	c. Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Speci	ification Section 02 41	01			Per Contract	Spec. 31-56-13	Shoring wall by (	CDSM	
During Pre-Trench BBII found an existing footing along the Low Rise 301 Mission wall. The footing consists of bricks and concrete. It also has a perpendicular footing that come out from footing that is parallel to the 301 Mission building wall. BBII has exposed a 20 to 30ft section of this					Method Para Obstructions, obstructions t alignment of t shall be that r the path of th	3.2 Pretrenchin Contractor is to that might be en- the walls. The de- required to remo e shoring wall."	g and removal o " remove any countered along epth and width of ve the obsruction	the trench is from	
32).	hatery on Ghd Line A	between 30 and			The Archaeol	ogist was conta	cted and viewed	the	
Please advise BBII as to how to proceed.				exposed sect Further arche trenching con Spec. 00-08- 4.	ion of wall and b ological investig tinues and area 12 for Archaeolo	rick debris on 4/ ation will folllow a s are exposed - F gical conditions i	11/11. as pre- Ref: n Zone		
					Demolition of Spec 02-41-0 in accord with	underground ob 1 and Demolitio Spec. 01-74-00	estructions shall l n Debris shall be ).	be per handled	
T-0096.1	BSE - Old Exis	ting Footing Along 301 I	Aission in Zone 4	Closed	04/20/2011	04/30/2011	05/02/2011	Potentiall	у 🗌

Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal

Nhi Tran

From: Webcor Construction LP

To: Turner Construction Compan Daphne Faulkner

Answered By: Turner Construction Comp Jack Adams



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mber Subject		Status	Created	Required	Answered	Impact	Proceed
REQUEST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference response to RFI T-0096 and Specification Section 02 41 01 BBII interprets the Response to RFI T-0096 (BBI 0067) as TJPA's approval for the removal of this unforeseen structure. Please confirm. BBII proposes to follow the method outlined below for the removal of this unforeseen structure. Please confirm in writing that the removal of this unforeseen structure is approved and that provided that it is performed with the method outlined below, no damage to adjacent buildings will occur. Pre Trench Obstruction Removal Method Location: Parallel along the 301 Mission St. Low Rise (Grid line A, approximately between lines 29 & 34). Obstructions: The footing consists of bricks and concrete. It also has a perpendicular footing that comes out from the footing that is parallel to the 301 Mission building wall. Method: BBII will first expose the obstructions and use an excavator mounted and hand held jackhammer to demolish the large masses into smaller more manageable sizes. An excavator with a bucket will then clear the debris, until the debris is removed from the area of the CDSM Wall location. BBII will chase the obstruction as deep as it goes in order to remove all debris necessary for a clean location to construct the CDSM Wall. Due to the unknown depth of the obstruction, at BBII discretion Sheet Piles or trench boxes may be used to support trench walls. All OSHA approved, safe practices will be used by BBI employees during the Demolition. Additional Details: As noted in the RFI response, the Archeologist has already examined the site. BBII (W/O) will notify the TJPA if additional structures or items are encountered.			Construction responsibility authorization contract time We take no e removal of st accord with C	Accept Sug means and met exclusively. RF of any change i exception to abor ructure. This wo CR T-0010.	gestion hods are the conf l response are no n contract sum or ve method for the ork will be tracked	tractor's t	



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T-0097	BSE - Protective	Material Along 301 Missie	on St Wall	Closed	04/20/2011	04/30/2011	05/06/2011	Potential	ly 🗌
From: Webcor Cor	nstruction LP	Nhi Tran	To: Turner Construction Compan	Daphne Faulkner	Answered B	y:Turner Constru	uction Comr Daph	ine Faulkner	
Co-Author: Balfour Beat	tty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference attache	ed photos				Drainage mat	terial encountere	ed is to be remove	ed from	
BBII has encounte Mission wall while drainage material affixed to the struc exterior waterproo	ered a drainage materia pretrenching. During p has been removed bec cture. The wall does not fing system.	I along the 301 retrenching, this ause it was not t have any			installed at the time of 301 Mission building construction. No waterproofing is required at this location. See attached email response from R. Rothenburger at PMPC.				
Upon installation c	of the CDSM shoring sy	stem, the							
cementious mater	ial will be against this w	vall. The existing			04/19/2011 -	George Metzger	r		
existing garage sh install any waterpr the installation of a	aft for 301 Mission. Do oofing along this wall the a CDSM shoring system	es TJPA plan to nat can tolerate n?			TJPA to provi	ide direction to (	GC.		
Please advise BBI this building.	II of the TJPA's plan for	r waterproofing of							
T-0098	301 Mission Wall	- Tube Steel Alignment		Closed	04/12/2011	04/22/2011	04/21/2011	Potential	ly 🗌
From: Webcor Cor	nstruction LP	David Hungerford	To: Turner Construction Company	Daphne Faulkner	Answered B	<b>y:</b> Transbay PMF	PC Alfree	d Lau	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: B/S-50	000 and D/A-6000				"Confirmed.	The 10"x10"x5/8	" HSS section sh	all be	
Detail B on sheet 5 centered on the 1- conflict with D/A-6 from the center of Mission subcontra that the tube steel wall as dimensione	S-5000 shows the 10" t 4" concrete wall below, 000 which shows the s the wall. Please confirr ctor meeting conversat is to be centered on th ed in B/S-5000.	tube steel however this is in teel tube off set n per the 301 ion yesterday, e center of the			dimensioned	in Section B on	s-5000."	as	
Т-0099	BSE - Depth of Fr	remont Street Shoring Wa	all in Zone 4	Closed	04/12/2011	04/22/2011	04/14/2011	Potential	ly 🗌
From: Webcor Cor	nstruction LP	Nhi Tran	To: Turner Construction Company	Daphne Faulkner	Answered B	y:URS Corporat	ion David	d Fyfe	
Co-Author: Balfour Beat	tty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Sheet [	D-2203 and attached as	s-built, photos,			The temporar	ry Fremont St. s	horing wall was		



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and document
CPM Activity Impacted - SX-BB42640

While exc shoring w has found approxima the as-bu adequate the timber illustratior

The contr response accommo actual exi shored de

Please pr

Iment	constructed to support Fremont St. and facilitate
ivity Impacted - SX-BB42640	removal of Terminal basement slab, walls, and pile
	caps/footings. The temporary Fremont St. shoring wall
cavating adjacent to the existing Fremont street	was not intended nor constructed to facilitate pile
vall as shown on contract drawing D-2203, BBII	removal activities.
d the existing shoring wall's height to be	BSE sheet D-2203 only specifies removal of the
ately 2' shorter than the 14 feet depth indicated in	temporary Fremont St. shoring wall. Sheet D-2203
uilts (attached). This wall does not provide	does not specify nor imply that the temporary Fremont
e shoring height for BBII to excavate and expose	St. shoring wall shall be used or is sufficient to be
er piles prior to extraction. (See attached photo for	used for pile removal activities.
n)	Response to QBD 182 was provided to bidders to
	enable bidders to form a basis for pricing removal of
ract documents D-2203 and pre-bid Q&A	the temporary Fremont St. shoring wall.
#182 (also attached) indicate this wall would	If the Contractor is undertaking excavation activities
odate the buttress area pile removal, however	which jeopardize the stability of the Fremont St.
isting field conditions do not provide adequate	roadway/foundation, then Contractor shall take any
epth	and all necessary actions to protect Fremont St.
	roadway/foundation.
rovide direction.	

T-0100 BSE - Slurry Wall Along 301 Mission St Garage			Garage	Closed	04/13/2011	04/23/2011	04/18/2011	Potentially
From: Webcor O	onstruction LP	Nhi Tran	To: Turner Construction Compan Da	aphne Faulkner	Answered By	Turner Constru	iction Comr Jacl	k Adams
Co-Author: Balfour B	eatty Infrastructure, Inc.	Ural Yal						
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:	
Reference RFI# and attached pl	T-0096, Specification Section otos	on 02 41 00,			Per Contract S Method Para 3 Obstructions	Spec. 31-56-13 3.2 Pretrenching Contractor is to	Shoring wall by g and removal o " remove any	CDSM of
Please reference Pre Trench BBI	e from RFI#T-0096 (BBI RF found an existing footing a			obstructions that might be encountered along the alignment of the walls. The depth and width of trench shall be that required to remove the obstructions from				
concrete. It also from footing tha	n wall. The footing consists has a perpendicular footing t is parallel to the 301 Missi	of bricks and g that come out on building			shall be that re the path of the	equired to remove shoring wall."	ve the obsructio	ns from
wall. We have e (Approximately	xposed a 20 to 30ft section on Grid Line "A" between 30	of this footing 0 and 32)."			The Archaeolo exposed section	ogist was contac on of wall and b	ted and viewed rick debris on 4/	the /11/11.
After the Concr very large mass	ete and Brick Footing was d	iscovered, a the same			trenching cont Spec. 00-08-1	inues and areas 2 for Archaeolog	ation will follow are exposed - gical conditions	as pre- Ref: in Zone
area, and contin Concrete Footin	ues where the RFI#T-0096 g" stopped. ***Please See	(BBI RFI# 67) Attached			4.			
Photos***					Demolition of	underground ob	structions shall	be per



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					Spec 02-41-0	n Dahric shall he	bandled		
This slurry wal of the Pre-Trer	I seems to continue into th nch, and was not in the cor	e future location ntract drawings.			in accord with	Spec. 01-74-00	).	e nanuleu	
Please Advise	BBII as to how to proceed	l.							
T-0100.1	BSE - Slurry Wall	Along 301 Mission S	St Garage	Closed	04/20/2011	04/30/2011	05/02/2011	Potentia	lly
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction	Compan Daphne Faulkner	Answered By	:Turner Constr	uction Comr Jack	< Adams	
Co-Author: Balfour E	Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference resp Section 02 41 BBII interprets TJPA's approv structure. Plea BBII proposes removal of this writing that the approved and method outline will occur. Pre Trench Ob Location: Parallel along to approximately Obstructions:	ponse to RFI T-0100 and S 01 the Response to RFI#T-0 ral for the removal of this u se confirm. to follow the method outlin se unforeseen structure. Ple removal of this unforesee that provided that it is perfe ad below, no damage to ad ostruction Removal Methoc the 301 Mission St. Low R between lines 30 & 34).	Specification 100 (BBI 0070) as nforeseen ned below for the ase confirm in n structure is ormed with the jacent buildings			Construction responsibility authorization contract time. We take no e removal of str accord with C	means and met exclusively. RF of any change in xception to abov ucture. This wo R T-0010.	hods are the con I response are no n contract sum o ve method for the ork will be tracked	tractor's ot r e d in	
A very large m Method: BBII will first e: excavator mou demolish the la sizes. An exca debris, until the CDSM Wall loo deep as it goes	ass of slurry. xpose the obstructions and inted and hand held jackha arge masses into smaller r vator with a bucket will the e debris is removed from th cation. BBII will chase the s in order to remove all del	d use an ammer to nore manageable n clear the he area of the obstruction as bris necessary for							



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	a clean location to co unknown depth of the Piles or trench boxes All OSHA approved, s employees during the Additional Details: As noted in the RFI ra already examined the if additional structures	enstruct the CDSM Wa obstruction, at BBII may be used to supp safe practices will be bemolition. esponse, the Archeol s site. BBII (W/O) will s or items are encour	all. Due to the discretion Sheet ort trench walls. used by BBII ogist has notify the TJPA tered.							
T-0101	1	BSE - Pile Extracti	on Procedure Modificati	on	Closed	04/14/2011	04/24/2011	04/15/2011	Potential	ly
F	From: Webcor Constr	uction LP	Masashi Kojima	To: Turner Construction Comp	an Daphne Faulkner	Answered By	Adamson Asso	ciates, Inc Geo	rge Metzger	
Co-Au	uthor: Balfour Beatty I	Infrastructure, Inc.	Ural Yal							
	REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	destion:		
	Reference Specificati response for TG0300 BBII proposes to elim casing right before th Upon removal of the "stroke" the steel cas BBII believes the san achieved, and this pro Project schedule. Please kindly review	ion Section 02 41 19 -310 Production Extra ninate the "stroking" of e CLSM is placed. steel casing, BBII pro- ing after the CLSM is ne effect of filling the ocedure will help to e our proposal. Your pr	and attached action Plan f the steel poses to placed. void will be xpedite the ompt response			ARUP Respor This is not acc not allow the v after the strok	nse: ceptable. The pr rolume of placed ing of the casing	oposed procedu J CLSM to be me J.	re does easured	
	is appreciated.									
T-0102	2	BSE - Confirm Pro	ject Coordinates		Closed	04/15/2011	04/25/2011	04/19/2011	Potential	ly
F	From: Webcor Constr	uction LP	Masashi Kojima	To: Turner Construction Comp	an Daphne Faulkner	Answered By	Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Αι	uthor: Balfour Beatty	Infrastructure, Inc.	Ural Yal							
	REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Reference Drawings BBII's surveyor, KCA variations in bearings BSE drawings. Pleas	U-0100 and GT-0100 Engineers, has notic between the Utility d e see the following of	ed some slight rawings and the KCA's			ARUP Respor been establish on the project lines (note, the the Right-of-W	nse: The Buildin ned to best-fit th . It is coincidenta ese are not nece /ay and should i	g Grid and bearing e numerous cons al that the street essarily in the ce not be construed	ng has straints control nter of as	



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observations and confirm coordinates provided on drawing GT-0100.

Drawings U-0100 has coordinates along the center lines of various streets. The result of those coordinates put a bearing on the center line of Mission Street and Minna Street at North 46° 18 ' 19.6" East and the center line of First Street at North 43° 41 ' 39.0" West. This results in those streets not being at right angles to each other.

Drawings GT-0100 has coordinates on Column Line E. The result of those coordinates puts a bearing of North 46° 18' 09.7" East on the terminal Tills is 00° 00' 10" off from being parallel with Mission and Minna Streets. Is this correct or should Column Line E be parallel with Mission and Minna Streets?

The numerical column lines are shown at right angles to Column Line E, which gives them a bearing of North 43° 41 ' 50.3" West. It was observed that Column Line 18 appeared to be in almost the same location as the center line of First Street, but First Street has a bearing of North 43° 41 ' 39.0" West which is 00° 00' 11" different than Column Line 18. Is it just a coincidence that the center line and column line are almost exactly in the same location or should something be adjusted to make the two lines identical?

Please advise if the bearings of the terminal should remain or be changed.

Center Lines) are very close, but at slightly different bearings. The building elements are constructed based on the building grid, whereas the utilities and subsequent street level improvements will be constructed based on the street control lines. The Numerical Bearings of the North South Grid lines appear to be correct. A follow-up survey control meeting should take place to ensure the shoring wall layout is performed as intended.

shall be that required to remove the obstructions from

T-0103	BSE - Existing Co	oncrete Footing Gridline	J between Gridline 26.5-30	Closed	04/15/2011	04/25/2011	04/25/2011	Potentially
From: Web	cor Construction LP	Masashi Kojima	To: Turner Construction Compa	an Daphne Faulkner	Answered By	Turner Constru	uction Comr Jack	 Adams
Co-Author: Balfo	our Beatty Infrastructure, Inc.	Ural Yal						
REQUEST	3		SUGGESTION:		ANSWER:	Accept Sug	gestion:	
Reference	Drawings D-5103, D-2203 and	GT-5104			Per Contract S Method Para	Spec. 31-56-13 3.2 Pretrenching	Shoring wall by and removal of	CDSM
Please see concrete st	e attached photos showing an u tructure discovered on the sout	unknown h side of zone 4.			Obstructions, obstructions the	Contractor is to nat might be end	" remove any countered along	the
This struct	ure is located between gridline	26.5-30 along			alignment of t	he walls. The de	epth and width of	f trench

This structure is located between gridline 26.5-30 along gridline J. BBII is not aware of the purpose for this



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struc adja The cont wall	cture, or if it has a cent structures (1 unknown structur ract drawings and alignment, Please	any affect on the sta 77/181 Fremont str e was not present in t is in direct conflict e advise BBII how to	bility of the eet). n the BSE with the CDSM o proceed.			the path of the shoring wall." The Archaeologist was contacted and viewed the exposed section of wall and brick debris on 4/11/11. Further archeological investigation will follow as pretrenching continues and areas are exposed - Ref: Spec. 00-08-12 for Archaeological conditions in Zone 4. Demolition of underground obstructions shall be per Spec 02-41-01 and Demolition Debris shall be handled in accord with Spec. 01-74-00.					
T-0103.1		BSE - Existing Co	oncrete Footing Grid	ine J Between Gridline 26.5-30	Closed	04/27/2011	05/07/2011	05/02/2011	Potentia	lly	
From	n: Webcor Constru	uction LP	Nhi Tran	To: Turner Construction Com	pan Daphne Faulkner	Answered By	:Turner Constru	ction Comr Jack	Adams		
Co-Autho	r: Balfour Beatty I	nfrastructure, Inc.	Ural Yal								
REG	QUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Refe BBII TJP	interprets the Re A's approval for the	3 and Specification sponse to RFI T-01 ne removal of this u	Section 02 41 01 03 (BBI 0074) as nforeseen			Construction means and methods are the contractor's responsibility exclusively. RFI response are not authorization of any change in contract sum or contract time.					
BBII rem writi appr meti will o	proposes to follo oval of this unfore ng that the remov roved and that pro- hod outlined below occur.	w the method outlin seen structure. Plea al of this unforeseen ovided that it is perfo w, no damage to adj	ted below for the ase confirm in n structure is prmed with the jacent buildings			We take no ex removal of stru accord with Cl	cception to abov ucture. This wo R T-0010.	e method for the rk will be tracked	in		
Pre	Trench Obstructio	on Removal Method									
Loca Para appi	ation: allel along the 177 roximately betwee	7/181 Fremont Stree en lines 26.5-30).	et (Grid line J,								
Obs A la	tructions: rge concrete struc	cture.									
Meth	nod:										

BBII will first expose the obstructions and use an



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excavator mounted and hand held jackhammer to demolish the large masses into smaller more manageable sizes. An excavator with a bucket will then clear the debris, until the debris is removed from the area of the CDSM Wall location. BBII will chase the obstruction as deep as it goes in order to remove all debris necessary for a clean location to construct the CDSM Wall. Due to the unknown depth of the obstruction, at BBII discretion Sheet Piles or trench boxes may be used to support trench walls. All OSHA approved, safe practices will be used by BBII employees during the Demolition.

Additional Details:

As noted in the RFI response, the Archeologist has already examined the site. BBII (W/O) will notify the TJPA if additional structures or items are encountered.

<b>T-010</b> 4	BSE - Request for F	eport (PSI for Caltrans)	Closed	ł	04/18/2011	04/28/2011	04/18/2011	Potentially
F	rom: Webcor Construction LP	Masashi Kojima	To: Turner Construction Compan Daphne Fau	ulkner	Answered By:	Transbay PMPC	C Alfree	d Lau
Co-Αι	thor: Balfour Beatty Infrastructure, Inc.	Ural Yal						
	REQUEST:		SUGGESTION:		ANSWER:	Accept Sugg	estion:	
	Reference Specification 01 13 50 and 00 03	3 35			Caltrans' Site I Approach, prep	nvestigation Rep pared by PSI in 1	port for SFOBB	West sessed
	Volume 1, References the report "PSI for C After looking through the contract documen	altrans, 1999." ts for the			ftp://ftp.tjpa.org	8/		
	Analytical back-up, BBII, Treadwell & Rollo, Services, have not been able to find it. It is have this information to properly dispose of	and Republic necessary to the Hazardous			Log In Instructions			
	Materials. Fo Complete the Profile of the work site, the	e Disposal			1. Enter case-s Password (Pub	sensitive Userna olicFTP1)	me (public) and	
	acility, Republic Services, BBII need the La Data/Analytical Data from the report. At this time. the lack of information is haltin	b a the process			2. Select View	Open FTP Site i	in Windows Exp	lorer
	of Material Off-Haul.	t Information			3. Drag file(s) t	o your desktop		
	riease Auvise, or supply the Needed Repu				Please contact is problem of a	PMPC Docume	ent Control shou ormation.	ld there



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## 30100 - Transbay Transit Center Project

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T-0105		BSE - Train Box Be	am Sizes		Closed	04/20/2011	05/02/2011	04/22/2011	Potential	ly 🗌
From	:Webcor Constru	uction LP	Nhi Tran	To: Turner Construction Compar	Daphne Faulkner	Answered By	Adamson Ass	ociates, Inc Geor	ge Metzger	
Co-Author	Balfour Beatty I	nfrastructure, Inc.	Ural Yal							
REQ	UEST:	katabaa and Shaat St	1 2201	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
<ul> <li>Reference attached sketches and Sheet S1-3201</li> <li>Drawing S1-3201 provides information on beam sizing in the permanent concrete structure. BBII was recently provided additional structure sections in response to T-0035.1, and a number of the beams appear to have changed in size. Beams at gridlines 18, 26, 34, &amp; 35 should be 5' wide according to schedule A on drawing S1-3201. However, from the section provided at gridline A, these all appear to be sized at 7' wide. The sizes of these beams are critical in determining the final geometry and location of our temporary bridges. BBII acknowledges that the structural drawings are not to be scaled, so please advise if these beams are to be 60" wide as indicated in schedule A, or if they have increased in size to 84" wide.</li> <li>T-0106 301 Mission Wall - Connection from Metal</li> </ul>						The concrete Ground Level is "in-progress	beams at gridlir have increased	nes 18, 26, 34, & 3 to 84" wide. The	35 at design	
T-0106		301 Mission Wall -	Connection from Meta	I Stud to Tube Steel	Closed	04/20/2011	04/30/2011	04/27/2011	Potential	ly 🗌
From	: Webcor Constru	uction LP	David Hungerford	To: Turner Construction Compar	Daphne Faulkner	Answered By	URS Corporat	ion David	l Fyfe	
Co-Author	:									
REQ	UEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Refe Pleas their steel there into t the X photo steel steel steel steel	rence: E & C/S-5 shop to set #10 \$ , as per plan. The fore Transworld the structural stee (-U Universal Knu o showing the X-1 . Welding is anot . Please advise h to the structural to	000 5000. Transworld has SMS through the struct e attempt was unsucc tried the use of a Hilti el. Attached are Hilti s urled Shank Fastener J fastener through the her option for connec now Transworld is to fa- ube steel.	attempted in ctural tube essful, X-U fastener pec sheets for as well as a e structural tion to the tube asten the metal			The proposed only and are r Mission exteri structural stee coating and is To fasten met may: 1) Use s X-CR fastene tap stainless s	Hilti X-U fasten not acceptable fo or screen wall. V el paint and light not an accepta al stud to struct hot pins rated for r - ESR 1663); o steel machine so	ers are for interio or use on the 301 Welding will dama gauge steel galv ble means of con ural tube steel co or exterior use (i.e or 2) Pre-drill hole crews.	r use ige the anized nection. htractor . Hilti s and	
T 0107		DEE Viewel Test	liou of Formelly Teer	ing for Vorticality in CCL Tubas	Closed	04/20/2044	04/20/2044	04/22/2044	Dotontial	<b>b</b>
From	: Webcor Constru	uction I P	Nhi Tran	To: Turner Construction Compar	Danhne Faulkner	Answered By	CHIJUIZUII	nciates Inc Geor		y
Co-Author	Balfour Beatty I	nfrastructure, Inc.	Ural Yal		Daprine Faukriel				ye merzyei	

REQUEST:

SUGGESTION:

ANSWER: Accept Suggestion:



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Reference RFI#T-0 Section 31 63 29, a CPM Activity Impac	057, Sheet GT-5202, Specification nd attached documents ted - Buttress Wall		ARUP Respo This is accep	nse: table.				
Below are three cas testing for verticality prove to be highly u	ses (A, B, and C) in which formally y on CSL tubes, BBII argues would inusual and counter-productive:							
<ul> <li>A. Specification Secontractor shall per the steel tubes, or of for the sonic tests." number of testing fi performed on steel reinforced with stee reinforcement and s not function properl Terracon (please secont function context).</li> <li>B. Attached is a case debonding that occut tubes. The results of steel tubes (BBII is</li> </ul>	ction 31.63.29.1.3 states "The form a test to determine verticality of drilled holes, that are going to be used Balfour Beatty has been advised by a rms that verticality tests cannot be access tubes as well as piles al. Magnetic interference from steel steel tubes will cause the instrument to y. BBII has also been advised by ee attached email from Dextra), a ng firm that there are currently no US where verticality of CSL tubes in as have been formally tested. se study that details the investigation of urs when using PVC as CSL access of this study clearly show the use of proposing to use Sonitec tubes) should							
C. After doing some any mention of vert from EPA's website tubes are not install distance between th length of the shaft, occur." Judging by tubes in most spece symmetry between ensuring accurate C	vc. e research, the closest we came to find icality in CSL tubes was this excerpt e which states, "If the CSL access led in a near-vertical position and/or the nem varies significantly along the errors in velocity calculations may this approach to verticality in CSL s, BBII concludes that parallelism and tubes are more important factors in CSL test readings.							
In summary, BBII ir	n lieu of formally testing the CSL tubes							

for verticality will perform a visual test making sure that the tubes are symmetrical (equally spaced) in a circle and parallel. This is the most important inspection to ensure accurate pulse readings.



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Please confirm	n that this is acceptable.								
T-0108	BSE - Building A	djacent Zone 3 Clean F	From Dust and Debris Generated By D	Demoli Closed	04/20/2011	04/30/2011	04/29/2011	Potential	ly 🗌
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction Compa	n Daphne Faulkner	Answered By	Turner Constru	uction Comr Jack	Adams	
Co-Author: Balfour I	Beatty Infrastructure, Inc.	Ural Yal							
REQUEST: Reference Specification Section 01 15 40 Please confirm that the demolition contractor has satisfied the requirement to clean all dust and debris generated by demolition contract to the satisfaction of the adjacent building owners, and BBII will only be responsible for cleaning dust and debris generated by BBII during its own operations, after the turnover of these are completed.			SUGGESTION:		ANSWER: Accept Suggestion: Confirmed. Demolition contractor has satisfied the requirement to clean all dust and debris generated by demolition contract to the satisfaction of the adjacent building owners to date. This was confirmed through conversation with both EBi and Singer Associates.			the ated by djacent rough ates.	
T-0108.1	BSE - Building A	djacent Zone 3 Clean F	From Dust and Debris Generated By D	Demoli <sup>,</sup> Closed	05/04/2011	05/14/2011	05/18/2011	Potential	ly 🗌
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction Compa	n Daphne Faulkner	Answered By	Turner Constru	uction Comr Jack	Adams	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference res Section 01 15 W/O requests the adjacent s	ponse to RFI#T-0108 and 40 information on the measur tructures	Specification res used to clean			Demolition Cc activities and 11. BBIi did occup activities, and	ntractor ceased turned over Zor by the site and d is responsible t	d dust generating le 3 for BBIi use o did commence wo for dust control in	on 4-13- ork accord	
 RFI#T-0108 - Dust and Debi	BSE - Building Adjacent Zo	one 3 Clean From on Work			with Mitigatior 13-11 until co	and Monitoring mpletion of BBii	g Specifications fr work activities.	rom 4-	
Question - Reference Spe Please confirm the requiremen demolition cor building owner cleaning	ecification Section 01 15 4 n that the demolition contra nt to clean all dust and deb ntract to the satisfaction of rs, and BBII will only be res	0 actor has satisfied oris generated by the adjacent sponsible for			BBII is only re generated fror 13-11 going fo	sponsible for cl n Zone 3 during prward.	eaning dust and o g BBII operations	debris from 4-	



the requirement to clean all dust and debris generated by demolition contract to the satisfaction of the adjacent

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dust and debri operations, aft Response - Confirmed. De requirement to	is generated by BBII du ter the turnover of these emolition contractor has o clean all dust and deb	uring its own e are completed. s satisfied the pris generated by							
contract to the to date. This w both EBi and Singe	e satisfaction of the adja vas confirmed through er Associates.	acent building owners conversation with							
T-0108.2	BSE - Buildin	g Adjacent Zone 3 Clean	From Dust and Debris Generated	By Demoli Closed	05/04/2011	05/14/2011	05/27/2011	Potentia	ly
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction Co	mpan Daphne Faulkner	Answered By	Turner Constru	uction Comr Jack	Adams	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference res Specification S	ponse to RFI#T-0108, Section 01 15 40	RFI#T-0108.1 and			There are no p the adjacent b	prescribed meas	sures. The clean	liness of ss is	
The response requested info	to RFI#T-0108.1 did no prmation.	ot provide the			their property initiated by the	upon completion adjacent properts	n of demolition werty owner/manage	ork and ger.	
W/O requests the adjacent s	information on the me tructures	asures used to clean			coordinated th Associates.	nrough TJPA Re	presentative and	d Singer	
RFI#T-0108.1 From Dust and	- BSE - Building Adjac d Debris Generated By	ent Zone 3 Clean Demolition Work							
W/O requests the adjacent s	information on the measure	asures used to clean							
RFI#T-0108 - Dust and Deb	BSE - Building Adjacer	nt Zone 3 Clean From Dition Work							
Question - Reference Sp Please confirm	ecification Section 01 1	5 40 ontractor has satisfied							



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building owners, and BBII will only be responsible for cleaning dust and debris generated by BBII during its own operations, after the turnover of these are completed.		
Response - Confirmed. Demolition contractor has satisfied the requirement to clean all dust and debris generated by demolition contract to the satisfaction of the adjacent building owners to date. This was confirmed through conversation with both EBi and Singer Associates.		

T-0109	BSE - Existing Drai	ns & SD Basin Clear Of D	ebris Generated By Demo Contract W( Closed	04/21/2011 05/01/2011 05/03/2011 Potentially
From: Webcor Cons	truction LP	Nhi Tran	To: Turner Construction Compan Daphne Faulkner	Answered By: Turner Construction Comr Jack Adams
Co-Author: Balfour Beatty	/ Infrastructure, Inc.	Ural Yal		
REQUEST:			SUGGESTION:	ANSWER: Accept Suggestion:
Reference Specifica	ation Section 01 15 40			Demolition Contractor has continuously covered the
Please confirm per that all active SD and debris generated by BBII is requesting a	the site walkthrough on Id sewer have been clea- the demolition contrac s-builts to confirm the a	04-18-2011 ared of all t work. bove.		occasionally has cleared debris generated by others outside of the demolition contract work. Demolition contractor will provide per Demolition Spec. 02-41-13 at conclusion of their work which is scheduled for June 2011.
T-0110	BSE - Existing Utili	ty Decommissioning Zon	e 4 Closed	04/22/2011 05/02/2011 05/02/2011 Potentially
From: Webcor Cons	truction LP	Nhi Tran	To: Turner Construction Compan Daphne Faulkner	Answered By: Turner Construction Comr Jack Adams
Co-Author: Balfour Beatty	/ Infrastructure, Inc.	Ural Yal		
REQUEST:			SUGGESTION:	ANSWER: Accept Suggestion:
Reference RFI#T-00 Specification Sectio	083, Drawing Sheet D-2 n 02 41 01	230, and		Parcel D Zone 4 : Demolition of the Zone 4 sewer/storm drain piping after dewatering work has been completed is BBI contract scope. The best
RFI response to RF	I#T-0083 issued on 4-1	5-2011 has not		examples are BSE Drawings D-2230, D-2231, D-5100
these utilities per BE	or decommissioning or a BII drawing # D-2230 No	abandoning ote 2		piping decommissioning/abandoning scope is defined in the Webcor-Obayashi RUP Relocation of Utilities



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					_			
Please advise on decommissioning the dewatering work has been completed	ne utilities after			Project . Coordinate Beale St. Zone 4 sewer/storm drain piping decommissioning/abandonment with the Webcor-Obayashi RUP Relocation of Utilities Project Manager.				
				Parcel N Zone decommission utilities which BSE contract Obayashi RUI will be contac abandonment drain lines.	e 4 :Refer to RF ning or abandon is outside the s and the RUP co P Relocation of ted for reroute c of these Parcel	I 84.1 for Parcel N ing these Parcel cope of the Demo ntract. Webcor- Utilities Project M lecommissioning, I N parking lot sto	V: The N Jilition, lanager or rm	
T-0111 301 Mission V	Vall - Torque Spec		Closed	04/22/2011	05/02/2011	04/28/2011	Potential	ly 🗌
From: Webcor Construction LP	David Hungerford	To: Turner Construction Com	oan Daphne Faulkner	Answered By	URS Corporat	ion David	d Fyfe	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: S-5000				Confirmed, st	ructural steel an	chor bolts shall b	е	
In regards to the structural steel bolts Wall, please confirm that the torque s attached email.	at the 301 Mission pec is 150 ft-lbs, per			installed snug	tight to a torque	e of 150 ft-lbs.		
T-0112 BSE - Project	Control		Closed	04/22/2011	05/02/2011	05/10/2011	Potential	ly 🗌
From: Webcor Construction LP	Nhi Tran	To: Turner Construction Com	oan Daphne Faulkner	Answered By	:Turner Constru	uction Comr Daph	ine Faulknei	
Co-Author: Balfour Beatty Infrastructure, In	c. Ural Yal							
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Sheet GT-0100 and Speci 10 50	fication Section 01			Response pro	ovided by PMPC	·.		
Drawing GT-0100 shows four control surveyor, KCA Engineers, have surve and found the following: 1) Survey Control Point #101: This po damaged - the brass disk is missing, remains in the concrete sidewalk. The	points. BBII's eyed their locations int has been though the rivet ere are score lines in			RFI T-0112 is Webcor/Obay their subcontr domain of res coordinate the Chaudhary & BSE Subcont	a Survey and C rashi is responsi actors and this ponsibility. Plea eir Survey Subc Associates) pro ractor (Contract	Control issue. ible for coordination RFI lies within the use ask W/O to contractor (Contractor vide a response to TG03 - Balfour B	on with sir ct T05.1 o their eatty).	



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the concrete BBII assumes would intersect on the brass disk.

2) Project Benchmark Point #54: KCA was able to locate this point. Please confirm that it is acceptable to use the coordinates of this point for horizontal control, even though it is listed as a benchmark.

3) Survey Control Point #106: KCA was unable to locate this point.

4) Survey Control Point #105: KCA was able to locate this point.

With the current condition of the provided control points, KCA is not able to do a hard check on their survey work.

Please confirm that all the control points above may be used for the TG03 BSE Trade Package. Please reset the damaged or missing points for KCA's use. 1) Regarding Control Point #101 by Martin M. Ron (Drawing GT-0100), TJPA is requesting a meeting with Martin M. Ron (DPW). In the meantime W/O surveyors should assume that the riven and cross marks constitute the mark on Drawing GT-0100 and to submit the results of their check survey against the other remaining points to see if the given coordinates match those given on Drawing GT-0100. W/O should consult with Chaudhary & Associates now under subcontract to W/O, as to how Chaudhary & Associates used this point and whether it was damaged then. TJPA will set up a meeting with Martin M. Ron, Chaudhary & Associates, W/O and TJPA representatives.

2) Regarding Project "Benchmark" Point #54, the coordinates of this point given on Drawing GT-0100 are given for use as line survey control as well as elevation.

3) Regarding Control Point #106 (Drawing GT-0100), W/O is to consult with DPW and Chaudhary & Associates as to their knowledge of the last time this point was located. This can be done by W/O alone or in the meeting the TJPA representative will set up. With the 3 remaining Control Points #101, #054, #105 (Drawing GT-0100), W/O should use the given position of Control Point#106. If this has already been done TJPA will re-establish this Control Point.

4) No action requires.

TJPA requests that the BBI and W/O surveyor submit their notes on what they have completed and verified to date.

T-0112.1	BSE - Project	Control	СІ	osed	05/20/2011	05/30/2011	05/24/2011	Potentially	]
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction Compan Daphne	e Faulkner	Answered By	Transbay PMP	C Alfree	d Lau	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	jestion:		
Reference RF	I#T-0112, Transmittal N	lo. 140-01593, Sheet			Adopting Chau	ıdhary's survey	grid control docu	ment is	



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GT-0100 documer	, Specification Section 01 It	10 50, and attached			acceptable.				
Chaudha was tran: (URS) or following F3, DPA control p that Poin	try's Transbay "Survey Grid smitted to Ed Sum (TJPA) to 5/18/11 (transmittal #140 a meeting which took plac and TJPA. In an effort to c oints shown on GT-0100, 0 t #101 and Point #106 wer	d Control Document" and Agnes Katanics -01593, attached) ce on 5/17/11 with URS, confirm the four survey Chaudhary discovered re missing.							
Due to th approve included monume	ne missing points, W/O req Chaudhary's Survey Grid ( as part of transmittal #140 nts missing from GT-0100	uests TJPA to either Control Document 0-01593, or have the replaced.							
T-0112.2	BSE - Proje	ct Control		Closed	07/14/2011	07/24/2011		Potential	ly 🗌
From: We	ebcor Construction LP	Tim Maxwell	To: Turner Construction Compa	an Daphne Faulkner	Answered By	:			
CO-Author:	э <b>т</b> .		SUCCESTION			Assent Curr			
Reference	e RFI #T-0112.1 and attac	ched drawing	SUGGESTION.		ANSWER.	Accept Sug	gestion:		
Last mor alleged p Fremont provided Associat forwarde Transmit recomme as indica presente data acc what was	th Webcor/Obayashi was property line @ 199 Fremor streets per the 12-10-2008 by the Bruce Storrs of DP es completed the task and d for TJPA review on June tal # 140-01864. In that tra ended that alleged Property ted within the attached (co d to Bruce Storrs of DPW uracy. Has this been accor s the outcome?	requested to mark an nt between Beale and 3 CAD file data W. Chaudhary & the results were 20, 2011 via ansmittal it was y Line (PL) data points pordinates added) be for verification of PL mplished and, if so,							
Be advis Webcor/ construct	ed that as previously confi Obayashi is ONLY using G tion reference, layout and s	rmed in RFI #T- 112.1 Brid Control for staking.							



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T-0113	BSE - Unforeseer	n Object - Metal Casing In P	roduction Pile Extraction Area	Closed	04/22/2011	05/02/2011	04/25/2011	Potential	iy 🗌
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction Compar	Daphne Faulkner	Answered B	y:Turner Constru	uction Comr Jack	Adams	
Co-Author: Balfour	Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference atta	ached sketch and photo				This metal ca	sing is to be ren	noved per Spec.	02-41-	
While BBII wa area and expo casing was dis Please advise	as excavating the production osing the timber piles on 4/1 scovered close to pile 3020 e on how to proceed.	n pile extraction 9/11, a metal 50.			the casing is TJPA Rep/Ge Spec. 02-41-	over an existing Und over an existing eotech Engineer 19	wood pile - notify prior to removal	res . If / the - refer to	
					Demolition of Spec 02-41-0 in accord with	underground ob 1 and Demolitio 1 Spec. 01-74-00	ostructions shall t n Debris shall be ).	be per handled	
T-0114	BSE - Monitoring	Plans and Data for Zone 3		Closed	04/27/2011	05/07/2011	05/12/2011	Potential	ly 🗌
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction Compar	Daphne Faulkner	Answered B	y:Turner Constru	uction Comr Dapl	nne Faulkner	
Co-Author: Balfour	Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Sp As discussed BBII requests plan and any o mitigation mor	ecification Section 01 35 65 at the site walk through me a copy of the demolition co data in relation to demolitior nitoring of Zone 3.	eting 4-18-2011; ntract monitoring n contract			Please clarify data you are 65 is compris so we need a requesting	specifically wha requesting. Speced of many diffe clarification on the second	at mitigation mon cification Section prent required sub which one you ar	itoring 01 35 omittals e	
T-0115	BSE - Hazardous	Material Removed From Si	te in Zone 3	Closed	04/27/2011	05/07/2011	05/02/2011	Potential	ly 🗌
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction Compar	Daphne Faulkner	Answered B	y:Turner Constru	uction Comr Jack	Adams	
Co-Author: Balfour	Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Sp	ecification Section 00 03 35	5			Hazardous m	aterial has been	removed from s	ite per	
Please confirm removed from drawings for z	n that all hazardous materia site per the extent of demo cones 3.	al has been lition contract			Zone 3 above demolished t drawings and materials aba scope of dem Drawings D-1 representatio hazardous ma cut/capped an Demolition co	e ground structur to extent shown Demolition Spe tement scope w lolition only. Refe 050, D-1051 and n of limits of stru aterial abatemer nd were demolis patract drawings	res and foundatic on Demolition co cc. 02-41-00. Haz vas completed wite er to Demolition d D-1073 and D- uctures demolishen t. Utilities were shed to extent she and Demolition §	ardous htract ardous thin the 1074 for ed and own on Spec.	



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					02-41-00. Ref 1215 inclusive removal of uti	er to drawings E e for representat lities.	0-1202-1207 and ion of limits of ex	1210- ttent of	
					BSE Contract Materials in a BSE Drawing Demolition.	or to handle rem ccord with their o s D-5101 and D-	naining Hazardou contract docume 5102 for extent c	is nts. Ref: of BSE	
					BSE Contract abatement in and Safety Cr BSE Spec. 02 13-50 "Hazard	or to handle rem accord with BSE iteria Para 1.2 a 2-41-01 "Demolit dous Materials P	naining demolition E Spec 00-08-14 nd 1.3 Lead haza ion" and BSE Sp Procedures".	n and Health ards, pec. 01-	
T-0116	BSE - Demolition (	Contract Drawings		Closed	04/27/2011	05/07/2011	05/02/2011	Potentia	lly 🗌
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction Co	mpan Daphne Faulkner	Answered By	:Turner Constru	ction Comr Jack	Adams	
Co-Author: Balfour I	Beatty Infrastructure. Inc.	Ural Yal			-				
REQUEST	,,		SUGGESTION			Accort Sug	nostion.		
Please supply 'issued for cor contract (EBI).	BBII with an electronic copy struction' drawings for the d	ν (PDF), of the emolition	SUGGESTION.		BBII should co electronic cop drawings for t	ontract Webcor- y (PDF), of the ' he demolition co	Obayashi for an issued for constr ontract.	uction'	
T-0116.1	BSE - Demolition (	Contract Drawings		Closed	05/03/2011	05/13/2011	05/03/2011	Potentia	lly
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction Co	mpan Daphne Faulkner	Answered By	Turner Constru	ction Comr Daph	nne Faulkne	r
Co-Author: Balfour I	Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	estion:		
Reference res	ponse to RFI#T-0116				Demolition Iss	sued for Constru	ction drawings w	ere	
Webcor-Obay drawings" in P past communi If the confirme before, please date. If not, please s	ashi cannot verify "issued fo PDF format for the demolition ications. ad drawing set was sent to W a let us know the transmittal send us the drawing set imm	r construction a contract in the /ebcor-Obayashi number and the nediately.			issued to W/C 00076 in Proje copy of the tra	0 on 12/8/2010 v ect (110) in Con: ansmittal attache	ia Transmittal #1 structware. Pleas ed for your use.	10- se find a	



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### 30100 - Transbay Transit Center Project

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Please supply BBII 'issued for construc contract (EBI).	 with an electronic cop tion' drawings for the o	by (PDF), of the demolition							
T-0117	BSE - As-built Dra	awings for Utility Dec	commissioning in Zone 3	Closed	04/27/2011	05/07/2011	05/02/2011	Potential	ly 🗌
From: Webcor Cons	struction LP	Nhi Tran	To: Turner Construction Com	pan Daphne Faulkner	Answered By	Turner Constru	uction Comr Jack	Adams	
Co-Author: Balfour Beatt	y Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Demo C 1203, D-1204, D12 41 01	ontract Drawing Shee 05, D1206 and Specifi	ts D-1202,D- ication Section 02			Demolition as have been de the demolition 1207 and D12	-built drawings f commissioned, contract are at 10 through D12	for Zone 3 utilities or cut and cappe tached. Drawing	s that d per D-1202-	
Please provide as- been decommission demolition contract	built drawings for all ut ned, or cut and capped for Zone 3.	ilities that have d per the			NOTE: Demo responsible fo completion of Spec. 01-17-0	lition contractor r submitting the their contract w 0 for Demolition	is not contractua ir As-Built drawir hich is June 201 n Contractor.	lly ngs until 1 ref.	
T-0118	BSE - Crash Cusł	nion Modules on Nat	oma & Minna Street	Closed	04/27/2011	05/07/2011	05/02/2011	Potential	ly 🗌
From: Webcor Cons	struction LP	Nhi Tran	To: Turner Construction Com	pan Daphne Faulkner	Answered By	Turner Constru	uction Comr Jack	Adams	
Co-Author: Balfour Beatt	y Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Demo C	ontract Drawing Shee	t D-1007 - Note 5			Confirmed. De	emolition Contra	actor will install C	rash	
Currently the crash Demo Drawing D-1 Please confirm the contractor.	cushion or k-rail as sp 007 note 5 has not be above will be installed	becified in the en installed. I by the demo			Cushion modu (east), Natom Demolition Dr	ules at K -Rails i a St. and Minna awing D-1007.	installed on Frem St. in accord wit	iont St h	
				<b>.</b>					

From: Webcor Construction LP David Hungerford To: Turner Construction Compan Daphne Faulkner

Closed

Answered By: URS Corporation

David Fyfe



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Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Co-Author:									
REQUEST: Reference: RFI Per response to columns are to wall. The archite 11/04/10) show steel, however, is to shift in the center of the co studs will remain	T-0098, Sheet A-6000 be RFI T-0098, the 10" > be set in the center of ectural drawings (shee 10" metal studs aligni per response to RFI T architectural drawings oncrete wall. Please co n per plan, and not shi	) ( 10" tube steel the 14" concrete t A-6000 dated ng with the 10" tube -0098, the tube steel 1/2" and align in the nfirm that the metal ift as the steel tube	SUGGESTION:		<ul> <li>ANSWER: Accept Suggestion: </li> <li>The light gauge steel studs will remain per plan as shown in Section B on S-5000. The light gauge steel studs shall be placed on both sides of the tube steel as shown on the contract documents.</li> <li>Per direction provided at 5/2 weekly coordination meeting, 1 - 5/8" light gauge studs shown on Detail A, Sheet A-6000 shall be in line with 10" light gauge steel stud (i.e. both sides of tube steel).</li> </ul>				
T-0120 From: Webcor C Co-Author:	301 Mission W Construction LP	/all - Stone Panel Layout David Hungerford	To: Turner Construction Co	<b>Closed</b> mpan Daphne Faulkner	04/27/2011 Answered By	<b>05/07/2011</b> /:URS Corporati	<b>05/20/2011</b> ion David	<b>Potentia</b> I Fyfe	lly 🗌
REQUEST: Reference: RFI Per RFI T-0042 achieve a min 1 Please clarify if 5000 are to to b stone above the trimmed. Please	T-0042 the concrete wall height 8" above the finished of the exposed concrete the min 18" above the p e exposed concrete wo e clarify.	ght increased to paver surface. areas shown on A- avers. If so, the 1st build have to be	SUGGESTION:		ANSWER: Per contract d sections, full h of paver (and ends) shall be Cutting of stor 6.84" and cutt shown in attac 0120" and "Pa to URS from V acceptable. Per contract d east most sec panels shall e paver/concrete attached skete URS." (Answered by (Response for 05/22/11)	Accept Sug documents, at ex- height of concre- finished concre- e exposed. The panel(s) to a ing of stone par- ched sketches, 'a art of Sheet A-56 Webcor-Obayas documents, at ea- tion of exposed xtend down to fi e walk. See ann ch, "Part of She : David Fyfe on rwarded to Web	gestion: xposed concrete v te wall above finis te walks at east an height of approxin nels in an "L" shap "Attachment for R 000" transmitted/e shi on 5/19/2011 is ast end of wall (ea concrete wall) sto inished top of notation by URS o et A-5000_Annota 05/20/11) cor-Obayashi on	vall hed top nd west mately be as FI T- smailed s ast of one n ated by	


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Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
T-0121	301 Mission Wall	- Aluminum Panel Layo	ut	Closed	04/27/2011	05/07/2011	05/10/2011	Potential	iy 🗌
From: Webcor C	Construction LP	David Hungerford	To: Turner Construction Compar	Daphne Faulkner	Answered By	URS Corporati	on Davi	d Fyfe	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: A-50	000				Per contract o	documents alum	inum panels sha	ll match	
Regarding the a bottom panel at trimmed. The st bottom panel m and 2'-9"+/- on t acceptable. If no	aluminum panels on the 3d t each end of the wall will t tandard panel is 2-11 1/2" teasures out to be 2'-1"+/- the east. Please confirm ot, please advise.			Contractor sh panel (s), as s an approxima and top of exi Contractor sh provide an ap panel and top acceptable to than 2' - 11-1,	hown in photos te 1" gap betwee sting grade. all place bottom proximate 1" ga of finished/exist provide bottom '2" tall to provide	aluminum panel p between bottor ing grade. It is panel(s) that are an approximate	(s) to n of less 1" gap		
					between botto finished/existi	om of panel(s) ai ng grade.	nd top of		
T-0122 From: Webcor C	BSE - Hazardous	Material Removed From Nhi Tran	Zone 3 (Potential Contaminated Ma To: Turner Construction Compar	aterial Closed	04/29/2011 Answered By	<b>05/09/2011</b> Turner Constru <b>:</b>	05/02/2011 uction Comr Jack	Potential Adams	y
Co-Author: Balfour Be	eatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Speci During Investiga lead based mate concern is the p Please confirm the referenced p section 00 03 3 abated by the D BBII is schedule and cannot proo confirmed that t as required by t	cification Section 00 03 35 ation of Zone 3, BBII disco- cerial existing on site. The bedestals on Fremont Stree that all contaminated mat pedestals) as specified in 5, Article 1.2 has been rep Demolition Contractor. ed to remove these pedes ceed with this critical work the site is cleared of lead I the Specifications. ention is directed to the foll ns:	5, 1.2 overed potential specific area of set. terial (specifically the specification moved and stals next week cuntil it is based materials			Hazardous m the extent of o - this does no building and a demolished to contract draw scope was co only. Refer to and D-1073 fr (specifically th hazardous ma BSE Contract abatement in and Safety Ci BSE Spec. 02 13-50 "Hazard	aterial has been demolition contra t include the "pe above ground str o the extent show ings. Hazardous mpleted within t Demolition Drav or representation he referenced pe aterial abatemen or to handle rem accord with BSE iteria Para 1.2 a 2-41-01 "Demolit dous Materials F	removed from s act drawings for a destals" in Zone uctures were vn on Demolition materials abate he scope of dem vings D-1050, D- o of limits of struc destals) demolisi t. haining demolitio E Spec 00-08-14 nd 1.3 Lead haz ion" and BSE Sp Procedures".	ite per zones 3 3. The ment olition -1051 ctures shed and n and Health ards, pec. 01-	
SECTION 00 03 HAZARDOUS M	3 35 ¿ EXISTING CONDI <sup>-</sup> MATERIALS	TIONS:							

"1.2 HAZARDOUS MATERIALS REPORTS



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### 30100 - Transbay Transit Center Project

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A. The TJP the facility f materials. N lead, PCB I contaminat hazardous Demolition removing a or PCB bal	A's environmental consulta for the presence of various Materials investigated may ballasts, mercury containin ed soils, underground stora materials. The demolition of project (Evans Brothers In- nd abating products contai last, and mercury-containin	ants have surveyed hazardous include asbestos, g lamps, age tanks, and other contractor for the c.) is responsible for ning asbestos, lead, ig lamps."		Glassed	04/00/0044	05/00/2014	05/05/0044	Detection	
T-0123	301 Mission W	all - SASM and Insulation T	ape Materials	Closed	04/29/2011	05/09/2011	05/05/2011	Potential	ly
From: Web	cor Construction LP	David Hungerford	Io: Turner Construction C	ompan Daphne Faulkner	Answered By	URS Corporati	on David	Fyfe	
Co-Author:									
REQUEST	:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
REQUEST:       S         Reference: S-0002, A-6000       Clarification is requested regarding the notes and details on Sheet S-0002, and A-6000 (see attached marked up sheets). Note 1 within the "WALL FINISH" section of the notes on page S-0002 says to use insulation separation tape between treated wood surfaces and steel framing. In note 2 on page S-0002, SASM is specfied as a different material, but on the details of page A-6000 SASM is shown to be used in the same areas as is described for the insulation tape. It is the interpretation of Transworld that the insulation tape is to be used at all locations referenced on sheet A-6000 as "SASM". Please clarify if these two different materials are to be applied in the same areas.					Insulation tape and metal surf waterproofing on the contrac These two ma overlap in cert provided betw and where wa	e shall be used l faces. SASM sh barrier around t tt documents. tterials (SASM a ain locations wh een treated wood terproofing is als	between all treate all be used as a the entire wall as nd insulation tap lere insulation tap d and metal surfa so required.	d wood shown a) may e is aces	
T-0123.1	301 Mission W	all - SASM and Insulation T	ape Materials	Closed	05/06/2011	05/16/2011	05/09/2011	Potential	ly 🗌

From: Webcor Construction LP

David Hungerford

To: Turner Construction Compan Daphne Faulkner

Answered By: URS Corporation David Fyfe

**Co-Author:** 

#### REQUEST:

Reference: RFI T-0123, A-6000, S-0002

#### SUGGESTION:

ANSWER: Accept Suggestion:

This is not a new contract requirement. SASM is referred to on A-6000 in two different instances. It is



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The response provided to RFI T-0123 is in conflict with the contract documents. The response requires the contractor to create a waterproofing barrier for the entire length of the wall; however, the contract documents do not indicate a complete waterproofing barrier. References to SASM on page A-6000 instructs the application of SASM at all points where pressure-treated or moisture resistant wood comes in contact with metal. This application instruction, therefore, would not result in a waterproof barrier along the entire length of the wall. Please clarify if on the details "SASM" was intended to read "insulation tape", because the application locations of the SASM, as per A-6000, are called out and described to be at all locations of the insulation tape defined on S-0002.

In the alternative, is it the intention of the design team to apply additional waterproofing not shown on the contract documents? referred to when there is treated wood blocking/ elements. At these locations, the insulation tape shall be used. There is also SASM shown on the front and back face of the wall as shown on Detail D, A-6000. Contractor shall provide SASM as shown.

T-0124	301 Mission Wa	II - Dimension Between Se	creen Wall and Existing Garage Wall	Closed	05/02/2011 05/12/2011 05/31/2011 Potentially
From: Webcor Co	onstruction LP	David Hungerford	To: Turner Construction Compan	Daphne Faulkner	Answered By:URS Corporation David Fyfe
Co-Author:					
REQUEST: Reference: C-20 The dimension b and the existing to how this gap is	00 between the new locatio garage wall is approx 8 s to be closed off.	on of the 301 Wall ". Please advise as	SUGGESTION:		ANSWER: Accept Suggestion: Gap shall be closed for the full height of the new interim screen wall and width of gap. The closure of this gap must meet ADA handrail loading requirements as well as the wind and seismic loading requirements. See attached Figures 1, 2, and 3 for
					recommended details of gap closure. Per discussions at weekly meeting on 5/23/2011, Contractor may provide suggested alternatives to address the 8-inch gap for URS to review.
T-0124.1	301 Mission Wa	III Enclosure Panel Metho	d of Connection	Closed	09/01/2011 09/16/2011 09/13/2011 Potentially
From: Webcor Co	onstruction LP	Michael Constable	To: Turner Construction Compan (	Gary Krutsch	Answered By: URS Corporation David Fyfe

Co-Author:



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REQUEST:         Reference: RFI T- 0124, URS response to RFI T- 0124         Per recent Change Order negotiations for the required 301         Mission Wall end panel per RFI # T-0124, the panel detail is now being revised to a two-piece, glued enclosure panel. Please confirm the method of two-piece panel attachment to the existing wall is the same as that indicated in RFI # T-0124.         T-0125       BSE - CDSM Corner Overlap			SUGGESTION:		ANSWER: Material subst glued together panel), "Propo Option3" provi 10C from Trar Webcor/Obays provided alum with rivets or s	<b>NSWER:</b> Accept Suggestion: laterial substitution (two 1/8" thick aluminum panels lued together in lieu of a single 3/16" thick aluminum anel), "Proposed gap closure per RFI #T-0124- lytion3" provided in attached Change Request No. 0C from Transworld Construction Inc. to /ebcor/Obayashi dated 7/26/2011 is acceptable, rovided aluminum panels are fastened to metal stud rith rivets or sheet metal screws at 24" o.c.				
T-0125	BSE - CDSM Corr	ner Overlap		Closed	05/02/2011	05/12/2011	05/06/2011	Potential	ly	
From: Webcor C	Construction LP	Nhi Tran	To: Turner Construction Com	pan Daphne Faulkner	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger		
REQUEST: Reference Shee Specification Se In the Owner's p auger method, a adjacent sets of columns (see 2/ permeability, an this remixing ac verticality and a panels tend to fu primary panels. shown in GT-21 Segment A/33.5 receive the com 100% outer colu atypical compar permeability iss number of beam those corners, s	ets GT-2101-2103, GT-51 ection 31 56 13 preferred method of soil m a continuous wall is former columns with a 100% ov (GT-5101). A CDSM wall's d homogeneity is largely tion. This overlap also he lignment, as the augers in ollow the path of the oute Based upon the beam ar 01-2013, the corners form 5-35 & 35-1 and R2-1 & X plete remixing obtained b umn overlap. These corne ed to industry standards, ues. Is it acceptable to m as slightly closer together such that the panel layout	01 and nixing, the triple ed by drilling rerlap of the outer s strength, contingent upon lps ensure the n the secondary r columns of the nd column layout ned by Wall (1-1 do not by the typical er details are and will lead to ove a small (-0.1') near is shifted enough	SUGGESTION:		ANSWER: ARUP Respor Arup received this response further clarifica Contractor's p	Accept Sugnese: from DND the t at the BSE mee ation of the Con roposal is accept	gestion: wo sketches atta eting on May 4, 20 tractor's proposa otable.	ched to 011 as I. The		

T-0126

From: Webcor Construction LP Nhi Tran

To: Turner Construction Compan Daphne Faulkner

BSE - Confirmation of Utility Abandonment on Fremont St, East side of Phase 1 El Closed

Answered By: Transbay PMPC

05/12/2011

05/02/2011

Potentially **Douglas Jacobson** 

05/12/2011

Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal



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## 30100 - Transbay Transit Center Project

Number	r Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed	
F li Z a w k E u u b	REQUEST: n order to drive sheet piles for the hamme ocation along Fremont St and the North V Zone 4, BBII requests confirmation of the III utilities east of the PG&E electrical duc vill need the As-Build drawing of the PG& ocation. BBI needs this information to proceed on the inforeseen concrete wall in the hammer houttress wall.	er head wall Vest Corner of abandonment of t bank. BBII also E duct bank he extra ead area of the	SUGGESTION:       ANSWER:       Accept Suggest         Today, 5/11, BBI has sawcut AC a lane-width and two laborers have lines in the street east of the PG& Verizon came and cut two of their remaining lines will be identified b subcontractors in the next day or Jason Dunne (W/O) for the field c abandoned utilities.				gestion: AC and removed ave exposed the PG&E duct bank. their 4" ducts. Th ed by the utility y or two. Please eld conditions of	and removed one exposed the utility &E duct bank. r 4" ducts. The by the utility two. Please contact conditions of		
T-0127	BSE - Openings B	elow Screen Wall at 301 M	ission Building	Closed	05/04/2011	05/14/2011	05/16/2011	Potentiall	у 🗌	
Fi	rom: Webcor Construction LP	Nhi Tran	To: Turner Construction Co	ompan Daphne Faulkner	Answered By	URS Corporati	on Davi	d Fyfe		
Co-Aut	hor: Balfour Beatty Infrastructure, Inc.	Ural Yal								
F	REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:			
F a li o s e a a p T	Reference Sheets GT-2201, GT-5102 Sec ttached photos In the northwest corner of Zone 4, BBII ha openings below the screen wall in the 301 tructure. The first opening is located appr sast of gridline 27 and the second opening opproximately 8 feet east of gridline 29. The tre approximately 18" x 36" in size. (See sictures).	t. 10, and s exposed 2 Mission oximately 6 feet g is located hese openings attached			Plugging of ex screen wall is Screen Wall c coordinate all packages/sub	isting ventilation specified in the ontract docume work amongst t contractors.	n shafts/opening: 301 Mission Inte ents. Webcor-Oba radegroup	s below rim ayashi to		
a ti	n expedited response prior to the end of his matter is pertinent to backfill operation	L Don requests this week, as 1.	Mission in Zone 4	Closed	05/05/2011	05/15/2011	05/12/2011	Potentiall		
Fi	rom: Webcor Construction LP	Nhi Tran	<b>To:</b> Turner Construction Co	ompan Daphne Faulkner	Answered Bv	Transbay PMP		alas Jacobso	י <u>ו</u> ו	
Co-Aut	hor: Balfour Beatty Infrastructure, Inc.	Ural Yal		· · · · · · · · · · · · · · · · · · ·		·····, · ···	- 200	,		
F	REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:			

Reference Specification Section 02 41 01

The obstruction was removed by BBI. Remove pretrench obstructions per contract requirements and



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During pre-trenching, along the 301 Mission the 301 Mission build between Grid Line 29 section of this floor (a Grid Lines 29 and 30	BBII found an existing concrete floor of St garage wall. It is located between ing wall and the buttress area and 30. BBII has exposed a 20ft-30ft pproximately on Grid Line A between b, and have demolished the slab		Force Accou	nt agreement wit	h TJPA.		

Please advise on how to proceed.

From: Webcor Construction LP

David Hungerford

within the pre-trench area that has been exposed. It appears to BBI that this unforeseen obstruction continues further into the buttress area. If this unforeseen obstruction continues further into the buttress area, it would have to be removed so the buttress construction can continue.

T-0129	BSE - Unforeseen	Timber Pile in Pre-T	rench Along 301 Mission in Zone 4	Closed	05/05/2011 05/15/2011 05/06/2011 Potentially
From: Webcor Cons	struction LP	Nhi Tran	To: Turner Construction Compan	Daphne Faulkner	Answered By: Adamson Associates, Inc George Metzger
Co-Author: Balfour Beatt	ty Infrastructure, Inc.	Ural Yal			
REQUEST: Reference Specific photo During pre-trenchin along the 301 Miss 29 and 30. These p 301 Mission St gar. wall limits. These u soon as possible. F	ation Section 02 41 01 ng, BBI discovered exis ion St garage wall betw biles are less than 1foo age wall and within the inforeseen piles need to Please advise on how to the Engineer Of Record II prior to responding.	and attached ting timber piles veen Grid Lines t away from the CDSM shoring o be removed as o proceed. d (Arup) review	SUGGESTION:		<ul> <li>ANSWER: Accept Suggestion: Arup Response:</li> <li>1. For the westernmost 3 timber piles along the line of piles 16 to 18" from the face of the 301 Mission wall: in order to minimize ground loss at 20 to 30 ft depth beneath the PG+E vault and adjacent corridor, BBI needs to use best endeavors to carry out the pile removal using the method agreed following the initial trials. This means vibrating in the casing in advance of removing any of those piles.</li> <li>2. For the remaining timber piles along this line, the piles are anticipated to be 30' long and will thus lie within the influence of the c. 70' deep shoring wall for the 301 Mission Low-rise parking garage. Each pile can be removed without casing, working from east to west. Concrete to be placed in the remnant pile hole</li> </ul>
					as rapidly as possible after pile removal and before removal of the adjacent pile.
 T-0130	301 Mission Wall	- FCR 043 Concrete	Wall Crack	Closed	05/06/2011 05/16/2011 05/09/2011 Potentially [

To: Turner Construction Compan Daphne Faulkner

Answered By:URS Corporation

David Fyfe



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Number	Subject			Status	Created	Required	Answered	Impact	Proceed
Co-Author:									
REQU	JEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Refere	ence: Field Condition Report No. 04	3			Defective con	crete shall be re	moved and conc	rete	
See a Missic corne Trans TJPA as to	ttached FCR No. 043. The east end on concrete wall has cracks and also r. This had been discussed on 05/02 world's subcontractor meeting with Webcor-Obayashi, and Transworld now Transworld is to renair the spal	l of the 301 o spalled in one 2/11, in Turner, URS, I. Please advise lled corner and			snall be restor 5.3.7.3. An ep of bonding gro concrete inter concrete and contact engine	in lieu ing ve all in field.			
cracks	S.				If crack(s) go reinforcement minimum of 1 bolts. Contrac structural stee damage to oth	beyond/into the , the concrete s " around the rein tor shall shore/s el as necessary ner areas of exis	anchor bolts and hall be removed nforcement and a support the existir in order to prever sting concrete.	nchor ng nt	
T-0130 1	301 Mission Wall	- FCR 043 Concrete Wal	Patch Material	Closed	06/09/2011	06/19/2011	06/13/2011	Potential	
From:	Webcor Construction I P	David Hungerford	To: Turner Construction Con	mpan, Danbne Faulkner	Answered By	URS Corporati	on David	1 Evfe	
Co-Author:		Dana nangonola			,			ur yie	
REQL	JEST:		SUGGESTION:		ANSWER:	Accent Sug	gestion.		
Refere data	ence: FCR #043, RFI T-0130, and a	ttached product			The submitted materials are acceptable to patch the damaged concrete. All materials shall be prepared,				
Respo dama in Fiel sheets to RFI attach concre	onse to RFI T-0130 directs Transwo ged concrete at the 301 Mission Wa d Condition Report 043. Attached a s which satisfy the requirements not T-0130. Please review and confirm ed materials are acceptable to patc ete.	rld to repair the all, as described re product data red in response h that the h the damaged			recommendat	ions.			
T-0131	301 Mission Wall	- Framing Modifications	and Base Plate Conflict	Closed	05/06/2011	05/16/2011	05/20/2011	Potential	lly
From:	Webcor Construction LP	David Hungerford	To: Turner Construction Cor	npan Daphne Faulkner	Answered By	URS Corporati	on David	d Fyfe	
Co-Author:									
REQU	JEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Refere	ence: C/S-5000, B/A-6000, attacheo nced RFI's	I sketches, and			Item/Issue 1) flush with stuc shall not exce	Contractor shall cco slot/face of o ed dimension(s)	cut base plate ne concrete. Extent o shown in attache	eat, of cut(s) ed	



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Field verified measurements and layout for the location of the structural steel does not coordinate with the stucco inset locations as shown on detail C/S-5000. In addition framing around the perimeter of the wall (aluminum panel locations) had to be modified due to assembly and installation methods. (See attached pictures and sketches. This RFI addresses three framing issues. All issues have been discussed in the weekly 301 Mission Wall subcontractor meeting with URS, Turner, Transworld, TJPA and Webcor-Obayashi.

1.) In two of the four stucco slot locations, field conditions show that a portion of the base plate conflicts with the stucco slot. This base plate encroaches into the stucco panel per dimensions shown on the attached sketch. Please advise.

2.) The structural steel had been relocated to CL of the wall (per RFI T-0098) and therefore studs around the steel per B/A-6000 could not be set per plan. Transworld has installed hat channel metal framing to the face of the structural steel tube using fasteners into the structural steel as per RFI T-0106 as well as modified the boxed framing per attached sketches around the perimeter of the wall. Sizes of metal framing were used to align with adjacent framing per plan. This work is currently installed, please confirm framing modifications per attached marked up details are acceptable.

3.) Blocking a the top of the wall at the north side (between the framing and 8"x 8" tube steel) was not installed, as there was no room between the framing and steel. Framing was attached directly to the tube steel. See attached.

Please confirm that the framing modifications in item 2 and 3 are acceptable and provide direction at the base plate conflict per item 1. sketch, "RFI T-0131: (Item 1) Base Plate conflict with slot locations" provided by WO/Transworld. Contractor shall field apply complete paint system as stated in contract documents following cutting procedures. Any damage to non-shink grout and/or concrete below shall be repaired. All architectural wall finishes (SASM, cement board, stone panels, aluminum panels, 3-coat stucco, etc.) shall be installed as shown on contract documents.

Item/Issue 2) We note this request is for convenience of the Contractor and on this basis take no exception to the framing modifications as shown in attached sketches. "RFI T-0131: (Item 2) Metal Stud Framing Modification at Perimeter of Wall (Aluminum Panel locations)" and "RFI T-0131: (Item 2) Metal Stud Framing Modification Surrounding Structural Steel (Slot locations)" provided by WO/Transworld. Accordingly, no change in contract and/or extension in schedule will be provided to accommodate this Contractor request. All impacts associated with proposed framing modifications, including installation of all architectural wall finishes (SASM, cement board, stone panels, aluminum panels, 3-coat stucco, etc.) as shown on contracts documents, cost and schedule shall be borne solely by the Contractor.

Item/Issue 3) Intention of wood blocking is to provide spacing and allow fastening of aluminum panels. If there is not sufficient space to provide wood blocking, it is acceptable to fasten aluminum panels directly to tube steel members and omit wood blocking on north side of wall as shown in attached sketch, "RFI T-0131: (Item 3) Omission of Blocking Between 8" x 8" Tube Steel and Framing (North Side Only). Accordingly, prior to deletion of wood blocking Contractor shall ensure all architectural wall finishes (SASM, cement board, stone panels, aluminum panels, 3-coat stucco, etc.) can and will be installed as shown on contract documents.



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T-0132	BSE - Lead Based	Paint On Bent Pedestals		Closed	05/06/2011	05/16/2011	05/09/2011	Potential	ly 🗌
From: Webcor/C	Dbayashi Joint Venture	Masashi Kojima	To: Turner Construction Compan	Daphne Faulkner	Answered By	Balfour Beatty	Infrastructu Ural \	/al	
Co-Author: Balfour B	eatty Infrastructure, Inc.	Ural Yal							
REQUEST: Please see info old bent Pedest information prov the permissible the lead abatem commencing or abatement will I	rmation attached regarding tals existing along Fremon vided indicates the level of level. This area is now con- nent program; this work win Saturday 5/7/2011. Cost be charged to the owner.	g the paint on the t Street. The lead is above nsidered part of I be of this Lead	SUGGESTION:		ANSWER: Voided. See th	Accept Sug	gestion: ail on 05/09/2011.		
T-0133	BSE - CDSM Test	Section & Start of Work		Closed	05/09/2011	05/19/2011	05/10/2011	Potential	lv 🗔
From: Webcor C	Construction LP	Nhi Tran	To: Turner Construction Compan	Daphne Faulkner	Answered By	Adamson Asso	ciates, Inc Georo	ge Metzger	•
Co-Author: Balfour B	eatty Infrastructure, Inc.	Ural Yal	·	·	-			5 0	
REQUEST: Reference Specification Section 31 56 13, 1.6. F. 1-2			SUGGESTION:		ANSWER: ARUP Respor	Accept Sug	gestion:		
Please confirm Section strengtl prerequisite to t acceptance of t prerequisite to t	that the acceptance of Zo h and permeability results begin Zone 4 & 3 shoring v he Zone 1/2 Test Section begin work Zones 1 & 2.	ne 4 Test is the vork, and results is the			The acceptand permeability re & 3 shoring we Test Section r Zones 1 & 2.	ce of Zone 4 Te esults is the pre ork, and accepta esults is the pre	st Section strengt requisite to begin ance of the Zone requisite to begin	h and Zone 4 1/2 work	
T-0134	BSE - 301 Missior	Guide Wall		Closed	05/09/2011	05/19/2011	05/12/2011	Potential	lv 🗔
From: Webcor C	Construction LP	Nhi Tran	To: Turner Construction Compan	Daphne Faulkner	Answered By	Transbay PMP	C Doug	las Jacobso	n
Co-Author: Balfour B	eatty Infrastructure, Inc.	Ural Yal	·	·		,	5		
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	estion:		
Reference Shee 13, and attache	et GT-2103, Specification and sketch	Section 31 56			This guide wa convenience.	Il proposal is for	Contractor		
Typically in CDSM shoring, a guide frame constructed from steel beams is used, which straddles the CDSM wall. The guide frame is used to align the augers, align and place beams, and expand/collapse the drill rods. The existing 301 Mission building wall is approximately 5-6" away from the outside of the CDSM shoring wall. As such it will not permit placement of a standard steel beam guide frame. Is it acceptable to construct a temporary concrete/rebar guide wall on the outside of the CDSM wall and adjacent to the existing 301 Mission footing wall? See					Please submit spacing, depth discuss mean that contractor Once the abov meet with 301 this proposal.	t more information, and diameters s and methods, r will leave the C ve information is Mission to nego	on for this proposi of anchors/studs, and describe con MU wall when fin returned, TJPA v otiate authorizatio	al, e.g., idition ished. will n for	



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attached s	sketch details of the proposed g	uide wall.							
T-0135	BSE - Unforeseer	n Timber Piles in Pre-Tre	nch Along 301 Mission St. in Zone 4	Closed	05/10/2011	05/20/2011	05/12/2011	Potential	ly 🗌
From: Web	ocor Construction LP	Nhi Tran	To: Turner Construction Compar	Daphne Faulkner	Answered By	Adamson Ass	ociates, Inc Geo	rge Metzger	
Co-Author: Balf	our Beatty Infrastructure, Inc.	Ural Yal							
REQUEST	T:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference	e RFI#T-0129 and Specification	Section 02 41 01			ARUP Respor	ise:			
The respo unforesee "Concrete as possibl	onse to BBII RFI 094 [RFI #T-01 on timber piles along 301 Missio to be placed in the remnant pil le after pile removal of the adjac	29] regarding the n Street, e hole as rapidly cent pile."			The material f timber pile nee be drilled by th	or filling the voiceds to be filled to be cDSM shorid	d left by the extra by a material whi ng equipment.	acted ch can	
Per DND (	Construction, concrete backfill i	s incompatible			Kevin Clinch				
with soil m what mate that will no	nixing methods. Please provide erial will be placed within the CE ot conflict with the mixing of the	e clarification on DSM wall limits CDSM wall.			12 May 2011				
T-0136	301 Mission Wall	- Manhole Vents		Closed	05/10/2011	05/20/2011	05/20/2011	Potential	ly 🗌
From: Web	ocor Construction LP	David Hungerford	To: Turner Construction Compar	Daphne Faulkner	Answered By	Turner Constru	uction Comr Kev	in Chiu	
Co-Author:									
REQUES	T:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference	e: A/C-5000,				5/23/11 UPDA Pending appro	TED RESPON	SE from Kevin C CR mav be issu	hiu: Ied.	
Per Justin on the nor PG&E pre design for grated cov the 3' tall s	Burke of Turner Construction, rth side of the 301 Mission Scre eference. At Turner's request, pl the sleeves as shown on C-500 ver over the manholes at grade, sleeves per the documents.	the 3' tall sleeves en Wall are per lease review the 00 and consider a , as opposed to			5/20/11 Respo Contractor is t HIGH CIP CO WITH (N) KAE FINISH (TWO of sleeves was PG&E (Mike E (Steve Hood).	onse per Kevin o eliminate the NCRETE SLEE DEE S.S. CIRC LOCATIONS)" s agreed upon to balmy) and Miss	Chiu: referenced "(N) VE OVER MAN ULAR GRATE S per C-5000. Eli py TJPA (Brian D sion Street Devel	3'-0" HOLE ATIN mination Dykes), lopment	



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					5/13/11 Resp 3' tall concrete Agreement be Development concrete slee manhole lid(s approved by	asement reet 3' tall t be			
T-0137	BSE - Unforese	en Obstruction - Concre	te Lip Off 301 Mission St Garage Foot	ing Closed	05/10/2011	05/20/2011	05/11/2011	Potentia	lly 🗌
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction Compar	Daphne Faulkner	Answered By	/:Transbay PMF	PC Roge	er Rothenbu	rger
Co-Author: Balfour B	Beatty Infrastructure, Inc.	. Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Spe photo	ecification Section 02 41	01 and attached			Previously a r within the TJF	nuch larger sec A limits was rei	tion of concete for moved with a bre	oting aker.	
During Pre-Tre lip/shelf footing wall. The footin part of the 301 separate struc location in mul room for the d lip/shelf protru Mission St. ga footing is then for 67-feet.	ench, BBII found an exist g along the low-rise 301 I ng consists of reinforced I Mission St. garage struc- ture, and it protrudes into ltiple places and does no rill rig to construct the CE des out at the western co rage and goes to the eas flush with the 301 Missio	ing concrete Mission St. garage concrete, and is a cture. It is not a b the CDSM wall t allow enough DSM wall. The borner of the 301 st 81-feet. The bon St garage wall			The BSE Con property line a 301 Mission is If the 3" protru limits beyond inch lip" shou tools and con line limits.	tractor BBII sho and the extent the s within the TJP usion is within th the property lin Id be removed v crete chipping to	build determine the nat this protrusion A limits. TIPA construc- te of 301 Mission with smaller break bools back to the p	e from tion the "3- king property	
This is a poter installation of t Mission St gar the 301 Missio	ntial delay in pre-trenchin the CDSM wall. It is a pai rage, and will need to be on St. wall.	g and the rt of the 301 removed flush with							
Please see ph	oto attached.								
Please advise	BBII as to how to procee	ed.							

T-0138

BSE - Unforeseen Timber Pile in Pre Trench Along 301 Mission St. in Zone 4 - Con Closed

05/10/2011 05/20/2011 05/12/2011 Potentially

From: Webcor Construction LP

Nhi Tran

To: Turner Construction Compan Daphne Faulkner

Answered By: Adamson Associates, Inc George Metzger



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Number	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
<b>Co-Author:</b> Balfour	Beatty Infrastructure. Inc. Ural Yal							
Co-Author: Balfour REQUEST: Reference Re Specification Using the cur RFI Respons probability tha into contact w multiple tag li wall, BBII car the wall. BBII requests unforeseen ti which will red BBII is willing develop this r	Beatty Infrastructure, Inc. Ural Yal esponse to RFI #T-0129 [BBI RFI 094] and Section 02 41 01 rent, approved means & methods set forth in e #T-0129, there is an extremely high at the vibratory hammer or casing will come vith the existing 301 Mission wall. Despite nes and attempts to swing away from the not guarantee the equipment will not contact a revised methodology to extract the mber piles or to protect the existing wall use the of damaging the wall at 301 Mission. to meet with the Engineer to discuss and method.	SUGGESTION:		ANSWER: ARUP Respondent As discussed in our respondent Contractor's " the three (3) if seven (7) or sepulled directly replacement for spulled directly replacement for spulled. The Contractor's " each of the 3 time (Friday M chosen by the control and he wall, as well at aluminum part 	Accept Sug nse: in the May 11, 2 se to RFI T-012 best endeavors imber piles furth opiles to the ea without casing filling of the timb or, TJPA and Ar best endeavors western-most ti May 13, 2011 m e Contractor. Me old the vibratory as any method of hel clad corner, ger Rothenburg in the Wedness Engineer (Arup) best endeavors er piles furthest opiles to the ea withou using ca filling of the timb	2011 BSE meeting 9, is seeking the " at using the casim nest west. The remast of these piles m as long as there is per pile void as soo rup will observe the " to install casing a mber piles at a dat entioned as the ear echanical methods pile puller away fro of pre-protection of are suggested. 	, Arup, g on aining ay be n as it nd pull e and liest) to om the the 3SE se to on the ay be ere is n as it	
				301 Mission F but weighs th damage in the greater risk th The work is ir directive CRT risk becomes bear for avoid	Parking Struture e potential for m e basement around han the exterior accordance wi f-010 for remova part of the cost ling potential groups	at the corner and s nore serious structu und the PG&E vau damage. th the force accour al of obstructions so which TJPA is will eater risk of basem	sides, iral t to be tt o the ing to ent	

(1) At a date and time (Frday May 13, 2011 mentioned



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as the earliest) chose by the BSE Subcontractor, BBII, TJPA representatives including the Engineer (Arup), Architect (AAI) will observe the BBII "best efforts" to install casing and pull each of the 3 wesrtn most timber piles. Mechanical methods with the excavators or other equipment to control and hold the vibratory pile hammer away from the wall are suggested as well as any method the experienced work crews suggest. An attempt to protect the aluminum panel clad corner by any means is also advisable.

(2) The material for filling the void left by the extracted timber pile needs to be filled by a material which can be drilled by the CDSM shoring equipment. A sand-water solution with some light bonding material (bentonite, 1/8 +/- bag of cement or other suggested material) that is drillable should be submitted by BBII. The CDSM shoring contractor suggestion would be helpful. A strength of 50psi was mentioned in the meeting but the choice belongs to BBII fo their CDSM equipment.

Please determine a date and time for the trial casing installation and to determine the desired CDSM "drillable mix"

T-0138.1	BSE - Unforeseen 1	Timber Piles in Pre Trencl	h Along	g 301 Mission St. in Zo	ne 4 - Coı Closed	05/20/2011	05/30/2011	05/23/2011	Potentially
From: Webcor Const	ruction LP	Nhi Tran	<b>To:</b> ⊺	Furner Construction Com	npan Daphne Faulkner	Answered By	Adamson Asso	ciates, Inc Geor	ge Metzger
Co-Author: Balfour Beatty	Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGO	GESTION:		ANSWER:	Accept Sugg	jestion:	
Reference response to RFI#T-0129, RFI#T-0138, Specification Section 02 41 01 and attached documents						ARUP Respon	se:		
The response to BB unforeseen timber p "Concrete to be plac as possible after pile Concrete is not com	II RFI 094 [RFI#T-0129 iles along 301 Mission ed in the remnant pile e removal of the adjace patible with CDSM mix	e] regarding the Street, hole as rapidly nt pile." ing.				Mix FOA100C that this mix is installer.	X is acceptable. acceptable to th	Contractor shall ne CDSM shoring	verify 3 wall

After clarification on the issue in RFI Response #T-0138,



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BBII proposed Mix FOA100C. Engineer of Re and observed along 301 Miss ARUP Field En please confirm engineer¿s red	and furnished Central C X under the direction of t ecord's field engineer rev the installation of this mi sion Street. The mix was ngineer prior to placemen that this mix design me quirements.	Concrete Sand Slurry the Engineer. The <i>v</i> iewed, approved x in the pile voids s recommended by nt in the field, wets the field						
Attachments: record.	Mix as requested is bein	ng submitted for						
T-0139	BSE - Unforese	een Timber Pile in Pre Tr	ench Along 301 Mission St. in Zone 4 - CR 1 Closed	05/10/2011	05/20/2011	05/11/2011	Potential	lly
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction Compan Daphne Faulkne	er Answered E	<b>y:</b> Transbay PMF	PC Roge	er Rothenbu	rger
Co-Author: Balfour E	Beatty Infrastructure, Inc	. Ural Yal						
REQUEST:			SUGGESTION:	ANSWER:	Accept Sug	gestion:		
Reference Res Specification S	sponse to RFI #T-0129 [I Section 02 41 01	BBI RFI 094] and		As discussed 11, 2011 the CDSM shori	d in the BSE mee removal of the u	eting of Wednesd Inforseen piles in	ay, May the	
Please clarify along 301 Mis	if the removal of the unfo sion Street will be reimbu	preseen timber piles ursed by CR T-010.		paid under C	RT-010.	ning along 501 M	133101113	
T-0140	BSE - Bridges	Submittals	Closed	05/12/2011	05/22/2011	05/27/2011	Potential	lly
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction Compan Daphne Faulkne	er Answered E	y:URS Corporat	ion Davi	d Fyfe	
Co-Author: Balfour E	Beatty Infrastructure, Inc	. Ural Yal						
REQUEST:			SUGGESTION:	ANSWER:	Accept Sug	gestion:		
Reference Spe	ecification Section 01 53	13		The approva	I to split the temp	porary bridge sub	mittal	
BBII proposes	breaking up the bridge s	submittals to allow		following cor	nissions is provid	ded subject to the	•	
submittal fund for the bridge, components n	amental structural drawin independent of accesso ecessary for a complete	ngs and calculations ries and specialized bridge package.		1. Items wh shall be desi which are de	iich are provided gned for all loadi	in the initial subning to support all i	nission features	
Specifically, th Structural drav structure from cap beams, gi	e first set of submittals v vings and calculations fo the pavement and decki rders, abutments, and as	would include r the bridge ing down - piers, ssociated		to but not lim vehicle barrio purposes, ac areas, curbs	nited to the follow ers; required thic ded thickness of and provisions f	ring: operable ga kness of paveme f paving for pede or slope inducem	tes; nt for all strian ent for	



REQUEST:

Webcor/Obayashi Joint Venture

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conn railin Folld coor mecl supp BBII com partit subn main work Plea	nections. Additionally, it will include sta g/barriers. ww on coordination submittals will inclu- dination components, gates, hardware hanisms, fences, Muni OCS compone bort details, surface grading and drain believes that it will take some time to plete bridge package that satisfies all es. Isolating the core bridge structure nittals will ensure that detailing and fa a components of the bridge will not be ing out the details. se confirm this is acceptable	andard edge ude traffic e, locking ints, utility age. finalize a interested into it's own brication of the held up while			<ul> <li>handling of su poles/standard items specifica requirements team by review</li> <li>2. Items defe in full conform</li> <li>3. Any items specifications first submission</li> </ul>	Inface water; sup ds; OCS poles/v ally required to r brought to the a w meetings with rred to the seco lance with speci for which a devi- is sought shall h on.	port for utilities; vires; and any ot neet city of SF ttention of the co city staff. Ind submission s fications required ation from the be fully identified	lighting ther portractor hall be ments. d in the
T-0141	BSE - Inclinometer	rs IW-5 to IW-8 Inst	all Locations	Closed	05/12/2011	05/22/2011	05/16/2011	Potentially
From	: Webcor Construction LP	Nhi Tran	To: Turner Construct	ion Compan Daphne Faulkner	Answered By	Adamson Asso	ociates, Inc Geo	rge Metzger
Co-Author	Balfour Beatty Infrastructure, Inc.	Ural Yal						

Reference Sheets GT-1301, GT-1302, GT-2201 & 13/GT-5101 and Specification Section 31 56 13

Please clarify if locations IW-5 to IW-8 exist. They are not shown on GT-1301 and GT-1302.

SUGGESTION:

ANSWER: Accept Suggestion: ARUP Response:

Instruments I-104 to I-107 require detail 13/GT-5101.

Inclinometers IW-5 to IW-8 do not exist.

T-0142	<b>BSE - Instruments</b>	I-104 to I-107	Closed	05/13/2011	05/23/2011	05/16/2011	Potentially
From: Webcor Constru	uction LP	Nhi Tran	To: Turner Construction Compan Daphne Faulkner	Answered By	Adamson Asso	ciates, Inc Geo	rge Metzger
Co-Author: Balfour Beatty In	nfrastructure, Inc.	Ural Yal					
REQUEST:			SUGGESTION:	ANSWER:	Accept Sug	gestion:	
Reference Sheets GT 5101 and Specification	-1301, GT-1302, GT- n Section 31 56 13	2201, & 13/GT-		ARUP Respon	nse:		



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mixing for the CDSM wall, will need to be removed.

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On Sheet GT-2 to I-107 is detai	2201, please confirm that I il 13/GT-5101.	nstrument I-104							
T-0143	BSE - Confirmation	on of Utility Decommiss	sioning and As-Builts for Fremont S	Street Closed	05/16/2011	05/26/2011	05/20/2011	Potential	ly 🗌
From: Webcor (	Construction LP	Nhi Tran	To: Turner Construction Comp	an Daphne Faulkner	Answered By	Turner Constru	uction Comr Kevi	n Chiu	
Co-Author: Balfour B	Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference She	et D-2230 and attached sl	ketch			Removal of ex	isting duct bank	k is in RUP scope	e, see	
During BBII pot head, BBII exp bank. The duct pad (see attach poured 5-26-20 duct bank will n drilling equipme removed prior t	tholing work on the Fremo osed the existing live PG& bank is located under BB ned sketch), the drill pad is 011/5-27-2011. BBII has control to able to support the l ent. The concrete duct bar to drill pad installation. Ple	nt street hammer E concrete duct II Buttress drill s scheduled to be oncerns that the oad for the hk will need to be ase advise.	q 199 Fremont St in Zone 4	Closed	scope. Target decommission bank is not co is to protect th 05/18/2011	a date given by F ed is 6/24/11. If mplete prior to d e existing utilitie 05/28/2011	PG&E to have du f RUP's removal drill pad installations.	uct bank of duck on, BBI Potential	
From: Webcor (	Construction LP	Masashi Kojima	To: Turner Construction Comp	an Daphne Faulkner	Answered By	Turner Constru	uction Comr Kevi	n Chiu	
Co-Author: Balfour B	Beatty Infrastructure, Inc.	Ural Yal		·	-		·		
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Spe	cification Section 31 56 13	3			Demolition of	underground ob	structions shall b	be per	
BBII discovered attached photo.	d the unforeseen concrete . TIIIs concrete mass is un with the BSE CDSM wall	structure in the known and is in			Spec 02-41-01 in accord with	and Demolition Spec 01-74-00.	n Debris shall be	handled	
The concrete m	nass is approx 2ft wide and	d extends 8ft							
depth the entire Fremont Street	e between GL J 30-33.5 ac t building, During the exca	djacent 199 vation at 8ft there			5/20/2011 - Ge	eorge Metzger			
was water egre concrete struct	ess into the excavation fror ure see photos attached.	n underneath the			ARUP Respor	ise:			
BBII requests ir issue.	mmediate direction from th	ne TJPA on this			If the CDSM s location showr including any i	horing wall is to n, then the mate rubble which wil	be installed in th erial which is in th I interfere with th	ne ne way, ie soil	



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					Arup requests TJPA to provide direction to the Contractor regarding removal of the obstacles encountered.					
T-0145	BSE - Existing	Concrete Footing Gridline	J between Gridline 26.5-30 along 18	81 Fre Closed	05/18/2011	05/28/2011	05/20/2011	Potentia	lly	
From: Webcor C	onstruction LP	Masashi Kojima	To: Turner Construction Compar	n Daphne Faulkner	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger		
REQUEST: Reference Spect BBII followed that the unforeseen s separate concre footing that exte building. The top below the origina wide, and 3 feet BBII is concerne extensive rubble bucket of dirt wa amount of water Fremont St. built stone rubble that the footing was for This footing is w to be removed. If the 177/181 Frei and advise. Please See Atta	ification Section 02 41 e method approved to structure in RFI #74 & te footing bellow that. nds below the 177/18 o of this footing is appri- al grade, and it is appri- deep. ed with the removal of that was exposed be as removed along the f gushed out, from belo- ding, and through the t was exposed. At this found, and the soil wa rithin the CDSM wall e Due to the fragile natu mont St. building; plea- ached Pictures.	1 00 remove a section of .74.1, and found a It is believed to be a 1 Fremont St. roximately 8 feet roximately 3 feet this footing and the low it. When a footing, a large ow the 177/181 large amount of s point the bottom of is quickly replaced. extents, and will have ase clearly describe	SUGGESTION:		ANSWER: ARUP Respondent The RFI referse these are BBI numbers in Color If the CDSM as location show including any mixing for the Based on field recent email of concrete (unreal adjacent to 18 requests TJP) regarding any should it be nu- Adamson Ass CM (Turner) is writing the ap proposes at th	Accept Sug nse: s to RFIs 74 and numbers; the c onstructware are shoring wall is to n, then the mate rubble which will CDSM wall, will d observations n correspondence, einforced) baser 81 Fremont has A to provide dire additional demo ecessary.	gestion: d 74.1. We undersorresponding RFI e 103 and 103.1. be installed in the rial which is in the need to be remo- nade earlier today we understand t neent wall immedi been removed. A section to the Cont polition and/or exca mment: TJPA approves is the Contractor as Field Actives a st the adjacent pro-	e e way, e soil ved. r, and he ately rup ractor avation  n		

T-0146

BSE - Additional Timber Piles Adjacent 177/181 Fremont Building South Zone 4 From: Webcor Construction LP

Nhi Tran

To: Turner Construction Compan Daphne Faulkner

05/20/2011 05/19/2011 05/29/2011 Potentially

Ural Yal Co-Author: Balfour Beatty Infrastructure, Inc.

Closed

Answered By: Adamson Associates, Inc George Metzger



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### 30100 - Transbay Transit Center Project

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<text><text><text><text><text></text></text></text></text></text>	SUGGESTION:		<ul> <li>ANSWER: ARUP Responent</li> <li>ARUP Responent</li> <li>ARUP Responent</li> <li>ARUP Responent</li> <li>ARUP Responent</li> <li>ARUP Responent</li> <li>Areasing and the remnant of the remnant of the remnant of the pre-trench continue alon for a distance the building.</li> <li>Areasing and the second along this len owner grants</li> <li>Inclinometer installation of train box excars</li> <li>The Contrar retain the mar from sloughin the mar from slough</li></ul>	Accept Sug nse: at that the timbe at a time, and the void is infilled im rilled by the sho ble material was cent to the park Mission. ber piles are revening, then the pr g the northern filled of 20 ft east of a full take at a full take e and after remo g the for pre-trenct us access. Pers to monitor the the shoring wal avation will be in actor shall take at terial under 181 g into the excave sociates, Inc. Co s to confirm tha proach and wor his location as ti tions may impa	r piles be exposed at they are remove imediately with a m ring wall equipment ing garage/low rise vealed along this process in 2 above s lank of 181 Fremo the northeast corn upped with crack ke readings of the boal of the timber p hing provided the b he effects of the I and the subseque istalled in due cour appropriate measu Fremont and keep vation.	no ed and haterial it of similar art of should ht and er of width biles building ent se. res to b it 	

T-0146.1

BSE - Additional Timber Piles Adjacent 177/181 Fremont Building South Zone 4 Closed

Answered By: Transbay PMPC Roger Rothenburger

05/20/2011

Potentially

05/30/2011

05/20/2011

From: Webcor Construction LP

Nhi Tran

To: Turner Construction Compan Daphne Faulkner

**Co-Author:** 



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Number Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
<b>REQUEST:</b> Reference RFI#T-0146 Please provide the TJPA's specific written direction and procedure on how to remove the unforeseen piles along North face of 181 Fremont Street according to the response for RFI T-0146. The contractor cannot proceed on this extra and critical work without the specific direction and procedure provided in writing by the TJPA.	SUGGESTION:		ANSWER: The Sheet pile interlocked or remove) desc this morning ( the Contract S Removal and Part 3.2 (Exec	Accept Sug e method using not interlocked piles (3ft of expr ribed to TJPA a May 20, 2011) of Specifications S Section 31 56 1 sution - Pre-tren	gestion: sheet piles either for 20 feet or so, osed pile required nd its representat on site is compliar ection 02 41 19 (F 3 (CDSM Shoring ching)	to ives nt with Pile g Wall)	
T-0146.2 BSE - Additional Timber Piles Ad From: Webcor Construction LP Nhi Tran	Ijacent 177/181 Fremont Building South Zon To: Turner Construction Compa	<b>ne 4 Closed</b> an Daphne Faulkner	05/23/2011 Answered By	<b>06/02/2011</b> Turner Constru	<b>05/24/2011</b> uction Comr Kevir	Potential	ly 🗌
Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal							
<b>REQUEST:</b> Reference RFI#T-0146.1 Based on the joint meeting between W/O, BBII and the TJPA on 5/23/2011, BBII would like to confirm the following:	SUGGESTION:		ANSWER: Per Brian Dyk Allowable wor Fremont pile e	Accept Sug es, this work is k hours will be e extraction begin	gestion: authorized to prod established after 1 s.	ceed. 99	
<ol> <li>181 Fremont Street Pile Extraction:         <ol> <li>BBII will install additional survey control to establish the back of the shoring wall limit.</li> <li>BBII will contact DND Construction to confirm the allowable distance between an existing pile and the back of the shoring wall.</li> <li>BBII will expose, in the presence of the engineer, 3 pile at one time.</li> <li>BBII and the Engineer will jointly determine the piles that can be left in place with reasonable assurance that they will not impact the shoring wall.</li> <li>BBII will extract the wood piles between the building and the wood piles to prevent caving of soils under the building.</li> <li>BBII will extract the wood piles with vibratory hammer, with the same stroking procedure without steel casing.</li> <li>BBII will perform dewatering enough to be able to connect the hammer to the pile.</li> <li>BBII will backfill the void with low strength material</li> </ol></li> </ol>	e es d		5/24/2011 - G ARUP Respon The procedure discussed and the following e Item 4 shall re the piles that of assurance tha Arup will be of The Contractor sheet prior to 181 Fremont a excavation.	eorge Metzger nse: e described is c d agreed to at ye exceptions: ead: BBI and TJ can be left in pla t they will not in n site to assist t or may wish to c excavating to re and keep it from 11 will be review	onsistent with tha esterday's meetin PA will jointly dete ace with reasonab npact the shoring he TJPA. consider placing the tain the material o sloughing into the wed by others.	t g with ermine le wall. ne steel under e	



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Central Concrete Mix FOA100CX (RFI #T-0138.1).

back of the shoring wall limit.

 8. BBII will backfill the piles.
 9. BBII will remove the sheet piles and start over with Step 3.

10. All of this work will be tracked and compensated on force account under CR T-010.

11. Similar to the extraction in front of the 301 Mission

garage wall, BBII will take every precaution to avoid damaging the adjacent wall; however, due to the prov of the hammer to the wall, BBII will not guarantee not damaging the wall. If damage to the adjacent wall occ in any phase of the pile extraction operation describe above, BBII will be compensated for repairs under Cf 010 as well.	imity curs d R T-	
Please confirm the above as soon as possible. In add BBII requests immediate confirmation of allowable we hours for the work described above.	lition, ork	
T-0146.3 BSE - Additional Timber Pile	s Adjacent 177/181 Fremont Building South Zone 4 Closed	05/23/2011 06/02/2011 05/25/2011 Potentially
From: Webcor Construction LP Nhi Tran	To: Turner Construction Compan Daphne Faulkner	Answered By: Transbay PMPC Roger Rothenburger
Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal		
REQUEST:	SUGGESTION:	ANSWER: Accept Suggestion:
Reference RFI#T-0146.2		The row of timber piles closest to 199 Fremont are
The response RFI T-0146.2 did not answer for Item 1 and 11. Please respond for Item 10 and Item 11.	0	only 6"-9" clear of the 36-inch theortical CDSM wall thickness. TJPA in order to avoid the potential risk of these timber piles some of whom are canted and not straight pulled if anyy part of the pile is within 12" of the theoretical CDSM wall line. Since this work has
RFI#T-0146.2 Question:		obstruction" paid on force account; if there is damage
Reference RFI#T-0146.1		to the 199 Masonry wall that the cost of repair is considered part of the force account work. BBII is to exert efforts to avoid damage and use the method of
Based on the joint meeting between W/O, BBII and the TJPA on 5/23/2011, BBII would like to confirm the following:	ne	pulling the piles that gives least amount of risk for damage to the masonry wall. This response is only for 199 Fremont. Discussions must be held when starting pile removal along 181 Fremont.
181 Fremont Street Pile Extraction:	h the	



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2. BBII will contact DND Construction to confirm the allowable distance between an existing pile and the back of the shoring wall.

3. BBII will expose, in the presence of the engineer, 3 piles at one time.

4. BBII and the Engineer will jointly determine the piles that can be left in place with reasonable assurance that they will not impact the shoring wall.

5. BBII will install flat sheet piles between the building and the wood piles to prevent caving of soils under the building.

6. BBII will extract the wood piles with vibratory hammer, with the same stroking procedure without steel casing. BBII will perform dewatering enough to be able to connect the hammer to the pile.

7. BBII will backfill the void with low strength material Central Concrete Mix FOA100CX (RFI #T-0138.1).

8. BBII will backfill the piles.

9. BBII will remove the sheet piles and start over with Step 3.

10. All of this work will be tracked and compensated on force account under CR T-010.

11. Similar to the extraction in front of the 301 Mission garage wall, BBI will take every precaution to avoid damaging the adjacent wall; however, due to the proximity of the hammer to the wall, BBI will not guarantee not damaging the wall. If damage to the adjacent wall occurs in any phase of the pile extraction operation described above, BBII will be compensated for repairs under CR T-010 as well.

Please confirm the above as soon as possible. In addition, BBII requests immediate confirmation of allowable work hours for the work described above.

T-0146.4 B	3SE - Additional Tin	nber Piles Adjacent 177/1	81 Fremont Building South Zone 4 Closed	05/27/2011	06/06/2011	05/31/2011	Potentially
From: Webcor Construct	tion LP	Nhi Tran	To: Turner Construction Compan Daphne Faulkner	Answered By:	Turner Constru	ction Comr Kevir	ו Chiu
Co-Author: Balfour Beatty Infr	rastructure, Inc.	Ural Yal					
REQUEST:			SUGGESTION:	ANSWER:	Accept Sugg	estion:	
Per Turner's request on to modify the 177/181 F	5/27/2011 this RFI i remont pile extractio	s being asked, n procedure		Item 8 - BBI sh are completely	nall make every filled but is not	attempt to ensur	e voids verifv



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as desired by ARUP: Based on the revised extraction work along (W/O) can agree with - Item 6 should read, vibratory hammer onl vibration as possible BBII will perform dew the hammer to the pil - Item 8 should read, a tremie pipe of minir concrete bucket. The the pile hole as possi the concrete shall be techniques. BBII will the void as possible, eliminate void comple Other items shall rem Please also clarify the stating "Since this wo an "unknown obstruct	as desired by ARUP: Based on the revised proposal for unforeseen pile extraction work along 181 Fremont St. from ARUP, BBII (W/O) can agree with revisions as the follows: - Item 6 should read, "BBII will extract the piles with vibratory hammer only as necessary. BBII will use as little vibration as possible to remove the piles from the ground. BBII will perform dewatering enough to be able to connect the hammer to the pile." - Item 8 should read, "BBII will back fill the pile voids using a tremie pipe of minimum length 20ft attached to the concrete bucket. The tremie shall be inserted as far into the pile hole as possible prior to pouring the concrete, and the concrete shall be placed using normal tremie techniques. BBII will make efforts to pour the material into the void as possible, but BBII is not responsible to eliminate void completely." Other items shall remain the same.		that the void Last paragra from T-0146 199 Fremont 5/28/2011 - ( ARUP Resp Based on ad the pile pullir has the follor revisions to t Item 6 is acc Item 8 shoul the voids usi pile is pulled	s are completely oph of the RFI - C .3 should read 17 t. George Metzger onse: Iditional observat ng process adjact wing comments a the procedure as ceptable. d be modified to ing gravity fall met be each individue set be each individue set	filled. Forrect. RFI response 77/181 Fremont in Fremont in Fremonse ions made 03/27/ ent to 199 Fremo and recommends noted below: Fread, "BBII will base read, "BBII will base r	2011of nt, Arup ackfill after of the oper's	
considered part of the efforts to avoid dama piles that gives least masonry wall." is this property and work rel please address the q	force account work. BBII is to exert ge and use the method of pulling the amount of risk for damage to the instead, meant to address the ated to 177/181 Fremont? If not, uestion regarding 177/181 address.		The last sen efforts to pou but BBII is no completely," The last para others. The Contrac adjacent to 1 direction to c	at the pile. As so at the pile. As so d, the concrete is tence in Item 8 ir ur the materials ir ot responsible to shall be reviewe agraph of the RFI tor shall not com 177/181 Fremont do so from TJPA.	the RFI "BBII wint the room as the pile is line, with the pile is line released from the note the void as portion of the void as portion	l make ssible d by ving	

Closed



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From: W	ebcor Construction LP	David Hungerford	To: Turner Construction Compar	Daphne Faulkner	Answered By	URS Corporation	on David	Fyfe	
CO-Autilor.									
REQUE	ST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Referer	nce: Attached Sketch				2nd layer of c	ement board is r ments	not as specified ir		
Please manufa this wal (attache installed be appl the mar Platinur will aligu the revi	review the attached sketch show cturer's recommendations for the I. In reference to the approved su ed) an additional layer of cement d to fur out the substrate so that t ied to their recommended thickne nufacturer recommends to use La n thinset material. The stone tiles n with the aluminum panel above ew of this RFI.	ing the thinset e tile installation at ubmittal detail board will be the materials can ess. In addition, aticrete 254 s finished surface . Please expedite			An adhesive s cement board single compo- shall be attact steel flat head screws shall e board for full e no gaps or vo board. Use of Laticre	shall be used bet in order to ensu site layer. 2nd la hed to studs at ( d screws to meta extend through b engagement to fr ids between the ete 254 Platinum	ween the layers of aver of cement bo of cement bo of o.c. with stainle I stud framing. A oth layers of cem aming. There sh two layers of cen thinset material i	of et as a lard ess ll ent all be hent s	
					acceptable.				
T-0148	BSE - Additional	Timber Piles Adjacent 19	99 Fremont Building Zone 4	Closed	05/23/2011	06/02/2011	05/24/2011	Potentia	lly
From: W	ebcor Construction LP	Nhi Tran	To: Turner Construction Compar	Daphne Faulkner	Answered By	:Turner Constru	ction Comr Kevin	Chiu	
Co-Author: B	alfour Beatty Infrastructure, Inc.	Ural Yal							
REQUE	ST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Referer Based o	nce RFI#T-0146.2	D, BBII and the			Per Brian Dyk 199 Fremont commence.	tes, this work is a has been notified	authorized to proc d and work may	eed.	
TJPA o followin	n 5/23/2011, BBII would like to co g:	onfirm the							
199 Fre 1. BBII back of 2. BBII allowab of the s 3. BBII piles at 4. BBII that car they wil 5. BBII the sam perform	emont Street Pile Extraction: will install additional survey contr the shoring wall limit. will contact DND Construction to le distance between an existing p horing wall. will excavate, in the presence of one time. and the Engineer will jointly deter to be left in place with reasonable I not impact the shoring wall. will extract the piles with vibratory the stroking procedure without ster dewatering enough to be able to	ol to establish the confirm the bile and the back the engineer, 8 rmine the piles assurance that y hammer, with el casing. BBII will o connect the			5/24/2011 - G ARUP Respo The procedur discussed and the following of Item 4 shall re the piles that assurance that Arup will be o Items 8 and 9	eorge Metzger nse: e described is co d agreed to at ye exceptions: ead: "BBI and TJ can be left in pla at they will not im n site to assist th	PA will jointly def PA will jointly def ce with reasonab pact the shoring ne TJPA.	g with ermine le wall."	



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 BBII will backfill the void with low strength material Central Concrete Mix FOA100CX (RFI #T-0138.1).
 BBII will backfill the piles and start over with Step 3.
 All of this work will be tracked and compensated on force account under CR T-010.
 Similar to the extraction in front of the 301 Mission garage wall, BBII will take every precaution to avoid damaging the adjacent wall; however, due to the proximity of the hammer to the wall, BBII will not guarantee not damaging the wall. If damage to the adjacent wall occurs in any phase of the pile extraction operation described above, BBII will be compensated for repairs under CR T-010 as well.

Please confirm the above as soon as possible. In addition, BBII requests immediate confirmation of allowable work hours for the work described above.

T-0148.1	BSE - Additional	Timber Piles Adjacer	t 199 Fremont Building Zone 4	Closed	05/23/2011	06/02/2011	06/07/2011	Potentially
From: Webcor C	onstruction LP	Nhi Tran	To: Turner Construction Compa	an Daphne Faulkner	Answered By	Turner Constru	uction Comr Jac	k Adams
Co-Author: Balfour Be	eatty Infrastructure, Inc.	Ural Yal						
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:	
Reference RFI#	T-0148				Confirmed-In to RFI T-0148	regards to item ; All of this work	#8 and 9 in the will be tracked	response on force
The response R Please respond	FI T-0148 did not answe for Item 8 and Item 9.	er for Item 8 and 9.			account under precaution to will be compe well.	r CR T-010. If B avoid damaging nsated for repai	BII takes every the adjacent w rs under CR T-0	all, BBII 010 as
RFI#T-0148 Que Reference RFI#	estioin: T-0146.2				There is no N	oise moratorium	for 199 Fremo	nt. This
Based on the joi TJPA on 5/23/20 following:	int meeting between W/0 011, BBII would like to c	D, BBII and the onfirm the			equipment set to 199.	t-up etc. is allow	red at all times a	adjacent
199 Fremont Str 1. BBII will insta back of the shor 2. BBII will conta allowable distan of the shoring w	reet Pile Extraction: Il additional survey contr ing wall limit. act DND Construction to ce between an existing p all.	rol to establish the confirm the pile and the back			Good neighbo will notify Sing on 199 Fremo disrupt the ter and on sidewa	or notification po ger Assoc. when ont property or w nants of 199 Fre alk/street.	licy is in effect - ever work will e hen work activi mont - both insi	WO/BBIi Incroach ty will ide lot



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3. BBII will excavate, in the presence of the engineer, 8 piles at one time.

4. BBII and the Engineer will jointly determine the piles that can be left in place with reasonable assurance that they will not impact the shoring wall.

5. BBII will extract the piles with vibratory hammer, with the same stroking procedure without steel casing. BBII will perform dewatering enough to be able to connect the hammer to the pile.

6. BBII will backfill the void with low strength material Central Concrete Mix FOA100CX (RFI #T-0138.1).

7. BBII will backfill the piles and start over with Step 3. 8. All of this work will be tracked and compensated on force account under CR T-010.

9. Similar to the extraction in front of the 301 Mission garage wall, BBII will take every precaution to avoid damaging the adjacent wall; however, due to the proximity of the hammer to the wall, BBII will not guarantee not damaging the wall. If damage to the adjacent wall occurs in any phase of the pile extraction operation described above, BBII will be compensated for repairs under CR T-010 as well.

Please confirm the above as soon as possible. In addition, BBII requests immediate confirmation of allowable work hours for the work described above.



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T-0149	BSE - Revised	Contract Drawing GT-2201		Closed	05/24/2011	06/03/2011	05/26/2011	Potentiall	у 🗌
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction Com	pan Daphne Faulkner	Answered By	Adamson Asso	ociates, Inc Geo	orge Metzger	
Co-Author: Balfour I	Beatty Infrastructure, Inc.	. Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference She sketch SKGT- BBIL agreed w	eet GT-2201, RFI#T-008 0002 /ith the T IPA's proposal ii	8.2, and attached			Based on the PMPC, Turne revised contra	5/26/2011 meet r and AAI, and a act drawing of G	ting between TJI as directed by T T-2201 will not b	PA, JPA a be issued	
RFI T-0088.2. drawing of GT Also, please n includes an er J/34-35.	Therefore, please issue -2201. hote that attached Sketch fror in the CDSM wall alig	sKGT-0002 nment at gridline			revised to cor outline. See	rectly show the attached SKGT-	CDSM shoring v 0002-R1.	vall	
T-0150	BSE - CDSM To	op of Pile Elevations At Zor	e 4	Closed	05/25/2011	06/04/2011	05/31/2011	Potentiall	у 🗌
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction Com	pan Daphne Faulkner	Answered By	Adamson Asso	ociates, Inc Geo	orge Metzger	
Co-Author: Balfour I	Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference She	eet GT-5101 and attache	d sketch			ARUP Respo	nse:			
Please referer construction o additional cost piles on Fremo below:	nce table 16/GT-5101. To in the streets and the But t to the owner BBII plans ont St., Beale St., and Zo	o facilitate tress area, at no to install the CDSM one 4 per the table			The proposed provided the e less than that	I top of pile eleva elevation at the I shown in 16/GT	ations are accep bottom of the pil F-5101.	table e is not	
# - (a) Location Pile Elevation;	n / Description; (b) Per ; (c) Proposed Top of P	16/GT-5101 Top of ile Elevation							
1 - (a) Piles at EL 15.0; (c) Fl 2 - (a) Piles in Mission; (b) El of Pad	t Fremont St. and Beale S lush to street elevation the Buttress Work Pad a L 14.0; (c) Approx. EL 14	St.; (b) EL 13.0 and area along 301 .0 w/c flush to Top							
3 - (a) Along 3 Work Pad and w/c is 1' above 4 - (a) Piles ale 14.0; (c) Appro	801 Mission, piles betwee 1 Beale St.; (b) EL 13.0; ( e grade ong the 181 Fremont side ox. EL 15.0 w/c is 1' abov	n the Buttress c) Approx. EL 15.0 e of Zone 4; (b) EL /e grade							
Please confirm	n.								



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T-0151	BSE - Buttress Fo	otprint Increase Du	e to Oversized Casing	Closed	05/26/2011	06/05/2011	05/31/2011	Potential	ly 🗌
From: Webcor Cons	struction LP	Nhi Tran	To: Turner Construction Compa	an Daphne Faulkner	Answered By	Adamson Asso	ciates, Inc Geo	rge Metzger	
Co-Author: Balfour Beatt	y Infrastructure, Inc.	Ural Yal							
REQUEST: Reference attached	d sketch		SUGGESTION:		ANSWER: ARUP Respor	Accept Sug	gestion:		
Becho will be utilizi the Buttress Pile In spacing between ta the secant piles ove approximately incre approximately 4'-4" Please confirm this	ng a 2200mm OD tem stallation. Becho reque ingent piles remain at erlap remain 1'-6". This ease the Buttress footp to the east and 1'-9" t is acceptable.	porary casing for ests that the 4" minimum and s will rint by o the south.			This is accepta buttress shifts Contractor sha proposed, can location, given low-rise. Contr piles within the and that the er	able provided no north-south. In all verify that row be installed in t the corner proj ractor to verify the larger footprim quipment pad is	o portion of the c particular, the v R, once shifted he same northst ection of the 301 hat the existing t have been rem- enlarged as neo	verall east as buth Mission mber byed cessary.	
T-0152	BSE - Additional	Timber Piles Adjace	nt 199 Fremont Building	Closed	05/26/2011	06/05/2011	06/07/2011	Potential	ly 🗌
From: Webcor Cons	struction LP	Nhi Tran	To: Turner Construction Compa	an Daphne Faulkner	Answered By	:Turner Constru	ction Comr Jack	Adams	
Co-Author: Balfour Beatt	y Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Sheet G In regards to item # investigations of the along 199 Freemor necessary to remov "neat line" 36" wide Please confirm that described above, ir adjacent structures reimbursed under C Item 4: 4. BBII and TJPA w be left in place with	T-2103 and RFI#T-01 44 in the response to R e curvature in first few th, BBII feels that at a r ve all piles that's top is e CDSM wall. t removal of these piles addition to any association caused by the extract CR T-010.	48 RFI T-0148; field piles removed ninimum it is within 12" of the s to the limits iated damage to ion will be e piles that can e that they will			Confirmed-In r RFI T-0148; A account under precaution to a will be comper well.	regards to item a II of this work w CR T-010. If B avoid damaging hsated for repain	#4 in the respons II be tracked on BII takes every the adjacent wa 's under CR T-0'	se to force II, BBII I0 as	
	ing wall.								
T-0153	BSE - Additional	Timber Piles Adjace	nt 177/181 Fremont Building	Closed	05/26/2011	06/05/2011	06/07/2011	Potential	ly
From: Webcor Cons	struction LP	Nhi Tran	To: Turner Construction Compa	an Daphne Faulkner	Answered By	Turner Constru	ction Comr Jack	Adams	

From: Webcor Construction LP

Nhi Tran

Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal

REQUEST:

SUGGESTION:

ANSWER: Accept Suggestion:



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Reference Sheet GT-2103 and RFI#T-0146.2

In regards to item #4 in the response to RFI T-0146.2; field investigations of the curvature in first few piles removed along 199 Fremont, BBII feels that at a minimum it is necessary to remove all piles that's top is within 12" of the "neat line" 36" wide CDSM wall.

Please confirm that removal of these piles to the limits described above, in addition to any associated damage to adjacent structures caused by the extraction will be reimbursed under CR T-010.

Also, please confirm allowable work hours, since 199 extractions have already begun.

Item 4:

4. BBII and TJPA will jointly determine the piles that can be left in place with reasonable assurance that they will not impact the shoring wall.

Confirmed-In regards to item #4 in the response to RFI T-0146.2; All of this work will be tracked on force account under CR T-010. If BBII takes every precaution to avoid damaging the adjacent wall, BBII will be compensated for repairs under CR T-010 as well.

Noise moratorium for 177/181 Fremont is Monday-Friday from 11 am to 2 PM. This includes demolition and pile pulling adjacent to 177/181 only - Excavation, backfill and equipment set-up is allowed at all times adjacent to 177/181.

T-0154 BSE	- Becho Tremie	Placement Process		Closed	05/26/2011	05/26/2011	05/31/2011	Potentially
From: Webcor Construction	LP	Nhi Tran	To: Turner Construction Compan Da	aphne Faulkner	Answered By:	Adamson Asso	ciates, Inc Geor	rge Metzger
Co-Author: Balfour Beatty Infrastr	ucture, Inc.	Ural Yal						
<b>REQUEST:</b> Reference Specification Sec	ction 31 63 29, 3	.5.G.4.K	SUGGESTION:		ANSWER: ARUP Respons	Accept Sugg	jestion:	
SS31.63.29.3.5.G.4.k states "The tremie discharge end shall be immersed at least 25' in concrete at all times after starting the flow of concrete."					This is accepta pertains to both not just the sec	ble. Note that the primary an condary piles as	he procedure de ad the secondary described in the	scribed / piles, e RFI.
Becho requests concrete tre reduced to 10ft minimum fo tremie embedment at the se between structural and CLS contaminated structural/CLS to +5 foot above sub grade	emie embedmen r all piles and 5ft econdary pile tra M mix pushing t SM concrete zon elevation.	t to be minimum nsition zones he minimum e at sub grade						

Please confirm this is acceptable.



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T-0155	BSE - Primary	Concrete Mix Tolerance		Closed	05/31/2011	06/10/2011	06/03/2011	Potentia	ily
From: Webcor C	Construction LP	Nhi Tran	To: Turner Construction Con	mpan Daphne Faulkner	Answered By	y:Adamson Ass	ociates, Inc Geo	orge Metzger	
Co-Author: Balfour Be	eatty Infrastructure, Inc	. Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Spec	cification Section 03 30	01, 1.5.F			ARUP Respo	nse:			
BBII, Becho, Ce Associates met results of Buttre During this mee about variability to slight variatio Primary Concre even small varia significant chan of a working tole buttress concre	entral Concrete, W/O, A c on Tuesday 5/24/2011 ess Primary Concrete M eting, Central Concrete v in the Buttress Primar ons in material and batc ete Mix is a very high per ations in the mix constit nges in strength. Please erance is acceptable for the mix.	ARUP and Adamson to discuss the fix Trial Batches. expressed concern y Concrete mix due hing. The Buttress formance mix and tuents can result in e advise how much r the primary			The strength primary shafts the following in 1. Every arith strength tests 12 in. cylinder made from th exceeds 2,00 2. No individu in. cylinders of below 1,800 p	of concrete which s will be consider requirements are metic average of (each test const rs or at least three same sample 0 psi. all strength test or at least three osi.	ch has been place red satisfactory e met: f any three cons sisting of at lease ee 4 by 8 in. cyli of concrete) equ (average of two 4 by 8 in. cylinde	ced in the if both of ecutive t two 6 by nders Jals or 6 by 12 ers) falls	
T-0156 From: Webcor C Co-Author: Balfour Br	BSE - Primary Construction LP eatty Infrastructure. Inc	Concrete Mix 90-Day Comp Nhi Tran Ural Yal	To: Turner Construction Col	Closed mpan Daphne Faulkner	05/31/2011 Answered By	06/10/2011 y:Adamson Ass	06/03/2011 ociates, Inc Geo	Potentia orge Metzger	ly
REQUEST			SUGGESTION			Accent Sug	destion:		
Reference Spec	cification Section 03 30	01, 1.5.F	000010110111		ARUP Respo	nse:	geotion		
Per Specificatio "The mixes sha compressive str response to Qu gain can be red reached after 20 Please confirm may take up to	on Section 03 30 01 - 1. all be proportioned to de rength of 2,000 psi at 2 lestion TG0300-0262, " luced so that the design 8 days but less than 91 that the Buttress Prima 90 days to achieve 2,0	5F Trial Batches: evelop a 8 days." Per the The rate of strength a strength is days". ary Shaft Concrete 00 psi.			The rate of st design streng 91 days, prov demonstrating before 90 day tests of the m days. Each te cylinders and batch cubes p TG0300-385.	rength gain can th is reached af rided the Contra- g that the mix wi vs. At a minimum ix shall be taker est shall consist a minimum thre placed in accord	be reduced so t ter 28 days but of ctor submits tes ill reach 2,000 p n, compressive of n at 7, 14, 28, 56 of a minimum th se cores taken fr ance with subm	hat the ess than t data si at or strength and 90 uree cast om trial ittal	
					At shafts C/2, mixes shall be strength of 2,	, C/4 and C/6 (re e proportioned to 000 psi at 28 da	efer to GT-2201) o develop a com ys.	, the pressive	
					Contractor to corresponding use.	submit propose g test results for	d mixes and approval prior t	o their	



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T-0156.1	BSE - 120 Day Ac	ceptability of Buttress	Primary Shaft Concrete	Closed	04/16/2012	04/26/2012	04/19/2012	Potential	У
From: Balfour Beatty	/ Infrastructure, Inc.	Ural Yal	To: Turner Construction Compared	n Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author:									
REQUEST: Reference: 4/12/12	Central Letter		SUGGESTION:		ANSWER: ARUP Respo	Accept Sug	gestion:		
BBII requests that in Mix test specimens strength of 2,000 ps previous RFIs #T-0° cylinders are to be t this cooler climate, i overall strength at t specimens are susp is confident that at will reach -the requi accepted for all test mitigate any future of	h the event that the Bu do not meet the 2,000 si at 90 days (reference 157.2, and #T-0156), a aken and tested at 12 initial temperature ma he required time. Altho- bect of low strengths, of 120 days, the specime red strength. If this cri specimens at 120 da concerns of suspect lo	uttress Primary D psi specified e Response to additional 20 days. During y be impeding bugh only a few Central Concrete ens in question teria can be ys, this can bw strength.			This is accept will evaluate of will require the the sampling so that, if the than 2,000 ps 120 days. Christina You sampling is to testing agenc	able for shaft Non a case by case JJPA to take a frequency requiring first cylinder tes i, there can be to the performed by the performance of the performance of the performance of the performed by the performance of the pere	-2. For future sha se basis. Howev an additional cyli red in the specfic ted at 90 days is hree samples tes the additional cy by the Contractor	afts, we er, this nder at rations less sted at rlinder 's own	
T-0157	BSE - Primary Co	ncrete Mix 500 PSI At	7-Days	Closed	05/31/2011	06/10/2011	06/03/2011	Potential	у 🗌
From: Webcor Cons	truction LP	Nhi Tran	To: Turner Construction Compared	n Daphne Faulkner	Answered By	Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author: Balfour Beatty	/ Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Specifica	ation Section 03 30 01	, 2.2.E			ARUP Respo	nse:			
BBII, Becho, Centra Associates met on results of Buttress F One of the concerns to provide a mix tha 500 psi at 7 days ar Primary Concrete M even small variation significant changes acceptable to allow requirement at 7 day	al Concrete, W/O, ARU Tuesday 5/24/2011 to Primary Concrete Mix is for the Buttress Prim t is able to consistent ad 2,000 psi at 28 day lix is a very high perfo as in the mix constitue in strength. Please ac a working tolerance for ys.	JP and Adamson discuss the Trial Batches. hary Concrete is ly achieve both s. The Buttress rmance mix and nts can result in dvise if it or the 500 psi			The 7 day cor concrete (Typ shall be 500 p	npressive streng e "A" concrete i osi +/- 200 psi.	gth of primary sh n spec section 0	aft 3 30 01)	

Closed



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From: Webcor/Obayashi Joint Venture Kirk Nielsen	To: Turner Construction Compan Gary Kru	utsch	Answered B	<b>y:</b> Webcor Const	ruction LP Davi	d Fields	
Co-Author:							
<b>REQUEST:</b> To date there are multiple RFI responses that address the scheduled PSI requirements for the primary shaft mix which is resulting in confusion and unnecessary Vela issues. For clarification sake please confirm the following schedule is correct: 1. 300 psi at 7 days pursuant to RFI response T-0157. 2. 2000 psi based on an arithmetic average of tests on or before 90 days pursuant to RFI response T-0155 and T-0156.	SUGGESTION:		ANSWER: RFI is void a	Accept Sug	gestion: RFI T-0157.2		
T-0157.2 BSE - PSI Schedule for Buttress Shaft F	Primary Mix Clo	sed	01/18/2012	01/28/2012	01/18/2012	Potentia	ily
From: Webcor/Obayashi Joint Venture Kirk Nielsen	To: Turner Construction Compan Gary Kru	utsch	Answered B	y:Adamson Ass	ociates, Inc Geor	ge Metzger	
Co-Author:							
REQUEST: To date there are multiple RFI responses that address the scheduled PSI requirements for the primary shaft mix which is resulting in confusion and unnecessary Vela issues. For clarification sake please confirm the following schedule is correct: 1. 300 psi at 7 days pursuant to RFI response T-0157. 2. 2000 psi based on an arithmetic average of tests on or before 90 days pursuant to RFI response T-0155 and T- 0156.	SUGGESTION:		ANSWER: The cylinder follows: 7 day report: Vela 28 day report below 300 ps below 2,000 0156 guidelin same report issue stays of report was gr 90 day report below 2,000 above 3,000 Regarding th RFI 155.	Accept Sug test results will b below 300psi: Fi i: Failure. Keep psi: below specif tes; monitor; if th was less than 30 pen; if the 7 day eater than 300 p c psi: Failure. Add psi: Failure. Add e question of ave	gestion: be tracked in Vela ailure. Add an iss the issue in Vela fication but within he 7 day break for 00 psi, then the Ve break for the sar sis, no Vela issue an issue in Vela I an issue in Vela eraging, see resp	as ue in open RFI T- the ela ne	



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T-0157.3	BSE - PSI Schedu	le for Buttress Shaft Pri	mary Mix	Closed	01/19/2012	01/29/2012	01/23/2012	Potentially
From: Webcor/Oba	ayashi Joint Venture	Kirk Nielsen	To: Turner Construction Co	mpan Gary Krutsch	Answered By	<b>/:</b> Arup	Kev	in Clinch
Co-Author:								
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:	
To date there are scheduled PSI red which is resulting in cont clarification sake p correct: 1. 300 psi at 7 day 2. 2000 psi based before 90 days pu 0156.	multiple RFI responses quirements for the prima fusion and unnecessary please confirm the follow ys pursuant to RFI response I on an arithmetic averag Irsuant to RFI response	that address the ary shaft mix Vela issues. For wing schedule is onse T-0157. ge of tests on or T-0155 and T-			The cylinder t follows: Below 300 ps Above 300 ps Below 2,000 p Above 2,000 p Above 3000 ( specifications Regarding the RFI 155	est results will b i at 7 days: fail si at 7 days: pase psi at 90 days: fa psi at 90 days: p 2 28 days does , but this will not e question of ave	e tracked in Vela ail not conform with be tracked in V araging, see resp	a as n the ela. bonse to
T-0158	301 Mission Wall	- Architect of Record		Closed	06/01/2011	06/11/2011	06/06/2011	Potentially
From: Webcor Cor	nstruction LP	David Hungerford	To: URS Corporation	David Fyfe	Answered By	/:Transbay PMP	C Alfre	ed Lau
Co-Author:								
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:	
Please clarify who the 301 Mission Ir	o is the registered Archit hterim Screen Wall Proje	ect of Record, for ect.			URS is the Ar and seal affixe	chitect/Engineer	r of Record per s gs.	signature
T-0159	BSE - Unforeseen	Obstruction - Timber P	iles Within Pre-Trench Limits Z	one 3 Closed	06/02/2011	06/12/2011	06/06/2011	Potentially
From: Webcor Cor	nstruction LP	Nhi Tran	To: Turner Construction Co	mpan Daphne Faulkner	Answered By	:Webcor Const	ruction LP Nhi	Tran
Co-Author: Balfour Bea	tty Infrastructure, Inc.	Ural Yal						
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:	
Reference Sheet attached sketch a	D-2212, Specification Sound photo	ection 02 41 01,			06/06/2011 -	Daphne Faulkne	r c <del>-</del>	
During Pre-trench timber piles within between gridlines Per Contract Drav be a single row of wall, although whe rows within the CI These will have to extra work.	, BBII found additional u the pre-trench limits alo 24 & 25. ving D-2212 (attached), timber piles in conflict v en the area was exposed DSM wall limits (see atta b be removed and will be	Inforeseen ong gridline A, there should only with the CDSM d there are three ached photo). e considered			Please refer t half between "In areas whe existing pile c and/or piles p Building CDS 6)."	o note on Drawin grids 23~26 white ere (N)CDSM wa aps and piles, re rior to constructi M perimeter sho	ng D-2212 in the ch states, Il conflicts with t emove (E) pile c on of (N) Transi ring wall (see No	e upper he caps t Center bte 3 and



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Please advise.					This includes	all piles within t	he CDSM wall foo	tprint.	
					''Unforeseen 00 (General ( (Unforeseen	Conditions" are Conditions) Artic or Changed Cor	covered in Sectior le 3.05.A.2 and 3.0 ditions).	1 00 07 05.A.3	
					Article 3.05.0	States,			
					C. Differing S	lite Conditions s	nall not include:		
					1. All that is from the Con Documents;	s indicated in or tract Documents	reasonably interpr or Reference	eted	
					2. All that c	ould be seen on	Site		
					3. Condition characteristic described in Documents.	ns that are mate cally the same as the Contract Doo	rially similar or those indicated c cuments or Refere	ir ince	
					Since Section and the removal the removal of wall is installo indicated and #2, #4, #6, and	n 31 56 13 discu wal of timber pile of timber piles be ed TJPA believe I will provid payn nd #7.	sses both pre-tren es and Bid Item #6 fore the CDSM sh s that this work wa nent for it under Bi	ching is for ioring as id Item	
					There will be timber piles f	no additional pa or the CDSM wa	yment for the rem II.	oval of	
T-0159.1	BSE - Unforeseer	n Obstruction - Timb	er Piles Within Pre-Trench Limits Zone 3	Closed	06/08/2011	06/18/2011	06/27/2011	Potentia	lly
From: Webcor Con	struction LP	Nhi Tran	To: Turner Construction Compan D	aphne Faulkner	Answered B	y:Turner Constru	uction Comr Kevin	Chiu	
Co-Author: Balfour Beat	tty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference RFI#T-I Section 02 41 19,	0159, Sheet D-2212, S and attached photos	pecification			The response shall remove activities.	e to RFI T-0159 all piles encoun	applies. The contract the contract of the cont	actor ench	
The Response to I misunderstood the additional informat	RFI#T-0159, appears to e question. Therefore B tion.	o have BII is providing			Per note 7 or bid that the a	n D-2212, it was ctual existing co	made clear at the nditions may diffe	time of r from	



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BBII contends that the lower and smaller diameter piles as indicated in the attached sketch were not shown in either the contract drawings or the reference documents, therefore BBII was un-able to account for the removal of these piles in their bid item prices. These piles meet the general conditions article 3.05A.2 definition of an unforeseen condition, because that quantity of piles encountered exceeds that shown in the bid docs.

Please confirm the removal of the "unforeseen" timber piles in excess of those shown in the drawings, will be tracked and paid under a Force account contract change order similarly as done for Zone 4 pre-trench obstructions.

#### the information shown on the drawings.

Note 7 on D-2212 states, "Location and depth/thickness of (E) basement slabs, walls and pile caps and location and depth/grouping of (E) piles shown on drawings based on best available information and may vary. [...] These quantities may not represent the actual extents of the entire building and/or ramp structure foundation elements (piles/footings)."

T-0160	Not Extracted In Zone 4		Closed	06/03/2011	06/13/2011	06/16/2011	Potentially
From: Webcor Const	Nhi Tran To: Turne	er Construction Compan Dap	ohne Faulkner	Answered By:	Turner Construc	ction Comr Jack	Adams
Co-Author: Balfour Beatty	Ural Yal						
REQUEST: Reference CR T-010 BBII continues to rea 199 Fremont Street extraction along 181 As of May 31, 2011, were estimated to be of the CDSM shoring during extraction a p to their proximity to t these piles also app limits of the CDSM s undulations and alig possibility of these p	SUGGEST y and sketch r piles along commence blace as they om the limits s were broken t in place due ills. While outside the sible round, the e CDSM	TION:		ANSWER: Contractor is to and 181 Fremo Wood pile can interfere with in	Accept Sugg o remove the wo ont using alterna remain along thi astallation of CD	estion:	t to 199 ethods.
199 Fremont Street extraction along 181 As of May 31, 2011, were estimated to be of the CDSM shoring during extraction a p to their proximity to t these piles also app limits of the CDSM s undulations and alig possibility of these p shoring wall area ex	commence blace as they om the limits s were broken t in place due ills. While outside the sible round, the e CDSM			interfere with in	Istallation of CD	SM wall.	

These piles are not shown on the contract plans and are extracted with extreme caution under the TJPA's direction and prescribed methods, taking the integrity of the adjacent buildings in consideration. Please confirm that it is the TJPA's intention to leave these piles in place.



Buttress Concrete strength relative to the core samples.

Webcor/Obayashi Joint Venture

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T-0161	BSE - CDSM Wall	BSE - CDSM Wall Soldier Pile Installation			06/03/2011	06/13/2011	06/06/2011	Potential	iy 🗌		
From: Webcor Construction LP Nhi Tran			To: Turner Construction Compan	Daphne Faulkner	Answered By	ran					
Co-Author: Balfour Bea	atty Infrastructure, Inc.	Ural Yal									
<b>REQUEST:</b> Reference Specification Section 31 56 13, 3.13 and attached detail sketch			SUGGESTION:		ANSWER:       Accept Suggestion:         06/03/2011 - George Metzger						
Is it acceptable to bottom tip, in the The purpose of th beam to the "dolly into a vertical pos	o cut a 1.5" diameter hole web of the soldier beam he hole is to aid in securi y" that DND will use to ra ition.	e, 16" from the pile beams? ng the tail of the aise the beams			ARUP Respor	nse: able.					
T-0162	BSE - Buttress Co	oncrete Test Cylinders		Closed	06/03/2011	06/13/2011	06/08/2011	Potential	ly 🗌		
From: Webcor Co	nstruction LP	Nhi Tran	To: Turner Construction Company	Daphne Faulkner	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger			
Co-Author: Balfour Bea	atty Infrastructure, Inc.	Ural Yal									
REQUEST:			SUGGESTION:	ANSWER: Accept Suggestion:							
Reference Specif	ication Section 03 30 01	and attached			ARUP Response:						
BBII, Becho, Cen Associates met o results of Buttress (please refer to th results). The 28- were on average results. The 28-d were on average The test samples batches, at the sa BBII believes the between the test size & the resulta concrete cure rate cores may be mo strength than the	tral Concrete, W/O, ARU n Tuesday 5/24/2011 to s Primary Concrete Mix he attachment for a sum day test results for the 4 57% of the core 4" diam lay test results for the 6x 88% of the 4" diameter of were extracted from the ame time and cured in th difference in compressive results may be attributed in theat of hydration whice e. BBII also believes that re indicative of the actual concrete test cylinders.	JP and Adamson discuss the Trial Batches mary of the test x8 test cylinders eter core test core test results. e same concrete e same manner. <i>ve</i> strength d to the sample ch drives the at the concrete al in-situ concrete			Arup believes available at thi conclusions st Regarding the understanding between 4x8 a tested under id not essential to particular cylin	that there is ins is time for the C ated in the RFI. question posed is that there sh and 6x12 cylinde dentical condition o limit the TJPA ider size.	ufficient informat contractor to draw d in the RFI: Arup lould be little diffe ers cast, cured ar ons and, therefore s's Testing Agenc	on the 's rence id e, it is y to one			
The Specification references "concr specify 4x8 or 6x During the course upon that 6x12 te representative an	Section 03 30 01 - 1.5 F rete cylinders", however 12 test cylinders. e of the meeting, it was g st cylinders appeared to d consistent measure of	Trial Batches it does not enerally agreed be a more the Primary									



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BBII has confirmed through CTS that there should be no additional cost in sampling and testing a 4x8 cylinder relative to a 6x12 cylinder.

Therefore, BBII proposes that the 6x12 test cylinders should be used as the basis of acceptance testing both for the Trial Batches and also for future Field Quality Control and Testing for the Primary Buttress Concrete; 4x8 test cylinders should only be used for informational purposes only. Please confirm.

T-0163	BSE - Hazardous	BSE - Hazardous Material Removed From Site Zone 2			06/03/2011	06/13/2011	06/06/2011	Potentially
From: Web	cor Construction LP	Nhi Tran	To: Turner Construction Cor	mpan Daphne Faulkner	Answered B	y:Webcor Const	ruction LP Nhi	Tran
Co-Author: Balfo	our Beatty Infrastructure, Inc.	Ural Yal						
REQUEST	:		SUGGESTION:		ANSWER:	Accept Sug	gestion:	
Reference	Specification Section 00 03 35	, 1.2			06/06/2011 - Hazardous m	Kevin Chiu	removed from	site per
During Investigation of Zone 2, BBII discovered potential lead based material existing on site. The specific area of concern is the pedestals on First Street.					the extent of demolition contract drawings for zone 2 - this does not include the "pedestals" in Zone 2. The building and above ground structures were demolished to the extent shown on Demolition contract drawings. Hazardous materials abatement scope was completed within the scope of demolition only. Refer to Demolition Drawings D-1050, D-1051 and D-1073 for representation of limits of structures (openiically the referenced pedectols) demoliched and			2. The
Please confirm that all contaminated material (specifically the referenced pedestals) as specified in the specification section 00 03 35 Article 1.2 has been removed and abated by the Demolition Contractor.								ement nolition J-1051 Jctures
BBII is sch and cannot	eduled to remove these pedes	tals next week until it is			hazardous m	aterial abatemer	nt.	
confirmed t as required	that the site is cleared of lead b by the Specifications.	based materials			BSE Contrac abatement in	tor to handle ren accord with BSI	naining demolitie E Spec 00-08-14	on and 4 Health zards
The TJPA's the Specific	s attention is directed to the fol cations:	lowing Section of			BSE Spec. 02 13-50 "Hazar	2-41-01 "Demoli dous Materials F	tion" and BSE S Procedures."	Spec. 01-
SECTION HAZARDO	00 03 35 - EXISTING CONDIT PUS MATERIALS	IONS:						
"1.2 HAZA A. The TJF the facility	RDOUS MATERIALS REPOR PA's environmental consultants for the presence of various haz	TS have surveyed ardous						


wastewater be contaminated, or should it be

## Webcor/Obayashi Joint Venture

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matel lead, conta hazar Demo remo or PC	ials. Materials investigated may PCB ballasts, mercury containin minated soils, underground stora dous materials. The demolition o lition project (Evans Brothers In- ving and abating products contai B ballast, and mercury-containir	include asbestos, g lamps, age tanks, and other contractor for the c.) is responsible for ning asbestos, lead, ng lamps."							
T-0164	BSE - Timber I	Piles Adjacent 177/181 F	remont Building South Zone 4	Closed	06/06/2011	06/16/2011	06/06/2011	Potentia	lly
From:	Webcor Construction LP	Nhi Tran	To: Turner Construction Comp	an Daphne Faulkner	Answered By	Webcor Const	ruction LP Nhi T	ran	
Co-Author:	Balfour Beatty Infrastructure, Ind	c. Ural Yal							
REQ	JEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Refer	ence RFI@T-0146.1 [BBI 0104]	and attached photo			06/06/2011 - I	Roger Rothenbu	rger		
Per [f metal remo The s close close CDSI extrac Photo	RFI #T-0146.1] RFI 104 Respons sheet behind the timber piles re ved, in the location between 199 heet is to hold back the soil in th proximity of the timber piles, the to the timber piles required to be <i>A</i> Wall Location. The sheet is too ctor to attach to the tops of the pile.	ee, BBII inserted a quired to be and 181 Fremont. the alley. Due to the e sheet location is too e removed from the o close for the pile ile. See Attached			The practice of by TJPA in the June 3rd. The and expose th sloped excava be attached. T reasonably a equipment, m when the met exposed for e	of removing the s e "181 Fremont Contractor can be piles as neces ation that allows The work should short duration as anpower, mater al sheet is pulled xtraction.	sheet pile was ap test" done on Fri remove the meta ssary with as stee the vibrator pile p be done in as s possible. All ials should be at d and the piles ar	proved day al sheet aply a buller to hand e	
Pleas	e Advise in detail.								
T-0165	BSE - High pH	Water Found In Zone 3	Pre-Trenching	Closed	06/07/2011	06/17/2011	06/10/2011	Potentia	lly
From:	Webcor Construction LP	Nhi Tran	To: Turner Construction Comp	an Daphne Faulkner	Answered By	Turner Constru	iction Comr Daph	ine Faulkne	r
Co-Author:	Balfour Beatty Infrastructure, Ind	c. Ural Yal							
REQ	JEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Refer	ence Specification Section 00 08	3 13, 1.9.C			Pending appro	oval by the TJP	A, a CR will be iss	sued for	
BBI fo in the Peter Section	ound high pH water while digging Fremont St. side of Zone 3. This Cusack from Treadwell & Rollo. on 00.08.13.1.9.C states that "St	an exploratory hole s was confirmed by Specification nould the existing			the chemicals section 00 08	to treat the wat 13 (1.9.B).	er per specificatio	n	



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uncontaminated as a result of co operations, a C	d but subsequently becon Inditions other than the C hange Order will be issue	ne contaminated Contractor's ed".							
Please conside Wastewater as advise on how t	r this as a Notice of Exist defined by SS00.08.13.1 to proceed.	ing Contaminated .9.C. Please							
T-0166	BSE - Unknown	Concrete Structure a	t 199 Fremont Zone 4 (Gridline 33-30)	Closed	06/07/2011	06/17/2011	06/22/2011	Potential	ly
From: Webcor C	Construction LP	Nhi Tran	To: Turner Construction Compar	Daphne Faulkner	Answered By	Transbay PMP	C Roge	r Rothenbur	ger
Co-Author: Balfour B	eatty Infrastructure, Inc.	Ural Yal							
REQUEST: Reference RFI# Section 31 56 1 Report 056 and BBII demolisher 199 Fremont St [RFI#T-0144] re previous contra inadvertently da the waterproofir Along with the of Unforeseen Coo removed, the fe See attached pi (5/24/11) BBII requests in issue.	FT-0144 (BBI RFI 0103), 3 3, and attached Turner F photos d the Unforeseen Concre , and associated curb pe asponse. During the proce ctor's construction means amaged the metal flashing beside it. curb, the fence panel was norete Structure, so wher ence came down too. ictures and Turner Field C	Specification Field Condition ete Structure along er RFI #103 ess, due to the s, the curb g, and possibly s built on top of the n the structure was Condition Report	SUGGESTION:		ANSWER: Instructions for and complied between the b has been reins can wait until y that no further requires that t building dama site and this C	Accept Sugg r this were orally with by the BSE uildings 199 Fre stalled. Repair of work in the area damage is poss he BSE Contract ged during cons- tontract.	gestion:	e field fence emont shing a point ct e to any or the	
T-0166.1 From: Webcor C Co-Author: Balfour B	BSE - Unknown Construction LP eatty Infrastructure. Inc.	<b>Concrete Structure a</b> Nhi Tran Ural Yal	t 199 Fremont Zone 4 (Gridline 33-30) To: Turner Construction Compar	Closed Gary Krutsch	07/20/2011 Answered By	<b>07/30/2011</b> :Transbay PMP	<b>07/26/2011</b> C Roge	<b>Potential</b> r Rothenbur	ly ger

REQUEST:

SUGGESTION:

ANSWER: Accept Suggestion:



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Reference RFI #T-0144, RFI #T	Γ-0166 and Specification 31			No action is re	quired by the c	ontractor at this t	me.	
Reference RFI #T-0144, RFI #T-0166 and Specification 31 56 13 Per the response to RFI#T-0166 (BBI RFI 103.1), please provide an acceptable repair procedure for the 199 Fremont building. Also, please confirm that the repair work will be included in CR T-010.			No action is required by the contractor at t The specific damage to 199 Fremont Stree been listed in the RFI. TJPA is aware of m damage to the metal flashing along the cu bottom of 199 Fremont St and the remova unreinforced "curb" that ran along the bass cinder block wall. As stated previously rep Fremont will be made at a much later date damage that occurred to the flashing and the concrete curb resulted from using breaker unreinforced foundation wall and pulling th out and repairs will not be done until the p further along in progress where no more li will occur.			Fremont Street has s aware of minor along the curb at d the removal of t long the base of reviously repairs uch later date. The ilashing and unre sing breaker on t and pulling the se he until the project re no more likely	et has not hinor Irb at the I of the e of the hairs to 199 b. The unreinforced r on the he sections project is ikely damage	
T-0167 Survey 0	Grid Control Documents		Closed	06/08/2011	06/10/2011		Potential	ly 🗌
From: Webcor Construction LP	Tim Maxwell	To: Transbay Joint Powers Au	thoi Edmond Sum	Answered By	:			
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference RFI T-0112.1 and d	rawing GT-0100							
As requested by Ed Sum in tod we submit the following questio	ay's (6/8/11) OAC meeting n:							
Please confirm that gridlines as 0100 and as confirmed on Chai Survey Grid Control Documents be used for all future constructi wall, etc). Please confirm by 6/	s established from the GT- udhary & Associates s (Ref: RFI T-0112.1) can on elements (i.e., CDSM 10/11.							
T-0167.1 Survey (	Grid Control Documents		Closed	07/01/2011	07/11/2011		Potentia	ly 🗌
From: Webcor Construction LP Co-Author:	Daniel Foudy	To: Turner Construction Comp	oan Daphne Faulkner	Answered By	:			

#### REQUEST:

Please provide City Survey of property lines with a

SUGGESTION:

ANSWER: Accept Suggestion:



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translation to grid for our use.

T-0168	BSE - Soil Classifi	ication Data	Closed	06/08/2011 06/18/2011 06/22/2011 Potentially
From: Webcor C	onstruction LP	Nhi Tran	To: Turner Construction Compan Daphne Faulkner	Answered By: Transbay PMPC Roger Rothenburger
Co-Author: Balfour Be	eatty Infrastructure, Inc.	Ural Yal		
REQUEST:			SUGGESTION:	ANSWER: Accept Suggestion:
Reference Spec The Class 1 and use the old "PSI due to the lack of report, and age. The Disposal sit Rollo reports fro for Caltrans" rep Please Advise.	cification Section 01 13 50 d Class 2 Disposal site doe l for Caltrans'' Reports in t of necessary tests, missing te recommends the use of m 2008 and 2009, and to ports.	es not want to he Soil Profile, g pages in the the Treadwell & dismiss the "PSI		Contract Specification Section 01 13 50 Part 1.1.C (General Summary - Soils Management) requires that the Contractor use "Site Mitigation Plan, Transbay Transit Center" by Treadwell and Rollo March 24, 2010 for "the management of existing soils in a manner consistent with the reuirements of the Contract." This report is attached as Appendix A in Specification Section 01 13 50. Section 01 13 50 Par 1.1.C for soils management also references a 2nd Treadwell and Rollo Report, "Environmental Site Characterization, Transbay Terminal, San Francisco California April 2009" that is referenced in Specification Section 00 03 35 (Existing Conditions Hazardous Materials Reports). This report is not a part of the Contract as stated in Section 00 03 35 is not part of the Contract except for the technical data incorporated by reference into the Contract. A partial review of this document shows that there is nothing to require that the Contractor use "PSI for Caltrans" reports. The April 2009 Treadwell and Rollo report is basically a detailed data report which predates the March 2010 report "Site Mitigaiton plan, Transbay Transit Center". The March 2010 Treadwell and Rollo document modified by any additional data in the 600page April 2009 Treadwell and Roll report should be used to manage the soils being excavated and coordination with the Class 1 and Class 2 Disposel Sites



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clean material (fine sand with silt) and crused concrete debris and poured concrete (top 2 feet buttress pile

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From: Webcor Construct	ction LP	Nhi Tran	To: Turner Construction Com	pan Daphne Faulkner	Answered By	<b>/:</b> Transbay PMF	PC Rog	er Rothenbu	ger
Co-Author: Balfour Beatty In	frastructure, Inc.	Ural Yal					-		-
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Specification BBII is concerned of the classified layers within concern is during Drillin contamination of the m Class 1 Material inadves site, or even a clean wa and the clean material Surface to GL-11 ft Equipment Pad Concre GL-11 ft to GL-13 ft 50/APA) GL-13 ft to GL-16 ft 50/APA ) GL-16 ft to bottomC BBII is concerned that the soil out of the Buttr water and the use of a the soil layers have a h casing. Presumably the difficult to distinguish b the clean materials.	n Section 01 13 50 e close proximity of the Buttress Area of ng & Shaft Excavati laterial could potent ertently going to a C aist site. The class layers are describe Land fill (clean mather the) Class II (based on Class I (based on S lean Material due to the process ess Shaft with large clam shell digging a high opportunity of r e mixed the soil laye etween the class 1	f the differently of Zone 4. The ion, cross tially lead to Class 2 Disposal 1, the class 2, ed below: erial except for Spec 01 13 Spec 01 13 of excavating e amount of attachment, that nixing within the ers will make it , the class 2, and			Conract Spec Summary - Si use the Tread Mitigation Pla 2009 "Enviror Terminal" rep Only the Marc a Contract Do 50 and only d Report is inclu though both ri language. The March 2010 ri condensed. Section 01 13 material hand operation on ti well as CDSM excavation mi Both the April Rollo report g classifications	ification 01 13 5 il Management) dwell and Rollo M n, Transbay Tra- mental Site Cha- orts for managir ch 24, 2010 Trea- ocument in Appe- lata from April 20 uded as Contrac- eports contain n e April 2009 rep- eport is conside 3 50 requires the lling plan for eact the site and inclu A overflow mater aterial, bulk exca 2009 and Marc ive the expected s as:	0 Part 1.1.C (Ge requies the Com March 24, 2010 " nit Center" and March 24, 2010 " init Center" and March 24, 2010 " init Center" and March 24, 2010 " aracterization, Tr ag existing soil di adwell and Rollo adwell adwell adwell adwell adwell adwell adwell adwell adwell adwell adwell adwell adwell adwell adw	eneral irractor to Site April cansbay sposal. report is n 01 13 nd Rollo en and the l ubmit a ttion s piles as etc. II and on	
BBII requests the engir classification that is be methods being used, th Please Advise.	neer to provide a re tter for the actual sl nat will prevent cros	vised stratum haft excavation ss contamination.			5~16 feet (be loose to medi amounts of bi 15~18 feet (b medium dens amutns of silt 18~55 feet (b Under Section resonsible for amount of hat includes (Pari methods, met segreegates to material dispon	low grade) fill m um dense silty s rick, wood, tar, a elow grade) fill r e to very dense elow grade) Bay n 01 13 50 Part devleoping a pl zardous waste g t 1.4.C Submitta ans, equipment, the material to re osal.	aterial composed and with varying ind glass fragme naterial compose sand with variab Mud 1.5.G the Contra an that reduces lenerated. This p Is - Excavation H sequences that educe cost of ha	d of Ints. ed of Ile ctor is the Ian also Iandling) zardous	
					piles and bac	kfilled with a cor	nbination of exis	ting	



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working pad) the Contractor needs to devise and submit the methods to handle the segregation of those materials for disposal in the appropriate Class land fills.

The Contractor will need to test materials for suitability and work out a plan with the Disposal Landfill Operators. TJPA will assist with the TJPA environmental consultant, Treadwell and Rollo but it is the Contractor's responsibility to mke the plan and handle the material. Classification of excavated materials by TJPA will not always govern how the disposal operators deal with the material. The actual conditon of the material must be determined prior to disposal.

The materials listed by elvation in the RFI are presumably the levles of CLSM, crushed concrete debris and the material below. The buttress area was excavated to a minimum of 12 feet below grade at the Fremont St. shoring wall and then another 3~5 feet was excavated to grab on to the timber piles for removal. The excavated material was replace with different materials when the engineered work pad was constructed with compacted material.

This means that the material is not necessarily class I as stated in the RFI or as designated in the Treadwell and Rollo March 2010 report. Whether the land fill operators will agree with that is the open question.

However, as stated in Section 01 13 50 it is up to the BSE Contractor to test and determine the disposal of material in accordance with the Contract.

TJPA will assist with some testing by their outside environmental consultant Treadwell & Rollo but such testing does not erelieve the Contractor of the responsibility for the means and methods of proper disposal despite TJPA being the "generator" of the material.

T-0170



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From: Webcor	Construction LP	Nhi Tran	To: Turner Construction Compa	n Daphne Faulkner	Answered B	<b>3y:</b> Turner Constru	uction Comr Jack	Adams	
Co-Author: Balfour I	Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Dra 5102, D-5103, attached draw Contract draw D-5103 along 014 describe t of crushed 3"   package. In su depression as be left no high Previous discu- were made to Zones 1-3 for discussions El 7000 cy of bal able to get tha were demolish and in exchan - Allow EBI to children EBI to Zone 2, for ou	wing Sheets GT-1303, D-5 response to Pre-Bid RFI # ing ings GT-1303, D-5100, D-5 with the response to Pre-Bid he finish grades and subsed minus concrete to be left on immary, Zone 4 was to be li- shown on GT-1303 and Zo er than existing ground elev assions between BBII, W/O, accommodate BBII's early a pre-trenching. At the time of BI indicated they were short ancing the site and that they t remaining 7000 cy until th- red. As a result of the short ge for access to zone 1-3 B leave Zone 3 low of the Exis set up Crusher in Zone 2 fo leave the 7000 cy shortage r later use.	100, D-5101, D- TG0300-014, and 101, D-5102, and d RFI #TG0300- quent quantities a site for the BSE eft with a ne 1-3 were to vations. BII and TJPA access into of these t approximately y would not be e existing ramps t term shortage BII agreed to: sting elevations r ramp in a stockpile in			Intent of the construction buttress fill n construction Contract dra CDSM wall p crushed/proo D-2200-2203 The amount the demolitic Contractor d 42-00.	demolition project demolition concr naterial and prov of new terminal j wings state" Sub perimeter shoring cesses demolition 3 inclusive, and E of crushed concr on contract is in a rawings and spec	t is to retain proc rete onsite for use ide a working plat perimeter wall. sequent to place remove all onsite n concrete backfil 0-1001 Note 2. rete (and asphalt) accord with Demo cs. REF: Demo S	eessed e as form for ment of e I." REF: is from lition pec. 02-	
BBII appreciat current size of expected. BB depression on zone 4 and BE stockpile to be include the as survey). Based on BBII was left appro. 5000 cy were result BBII req entirety from th amount to be	ed the partnering agreement the stockpile is far greater is a greater is a greater is a greater of 7/11 after they completer a greater is a greater is a greater a greater is a greater is a greater is calculations (see attache is	thowever the than BBII ever d the Zone 3 d their export to concrete s does not ated after the ed topo) Zone 3 kisting grade and Zone 4. As a be removed in its the contractual ct.							

However, If acceptable to TJPA, BBII would be interested in taking 2000 cy of the crushed concrete if it could be

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delivered an area. BBII s used as nee BSE contrac	d stockpiled in an mutually ag suggests Lot S. This material of for excavation stabilization ct.	greeable staging I would then be throughout the							
T-0171	BSE - Concrete S	ection Protruding Into C	DSM Shoring Wall Area Zone 4	Closed	06/13/2011	06/23/2011	06/17/2011	Potential	ly 🗌
From: Webco	or Construction LP	Nhi Tran	To: Turner Construction Compar	n Daphne Faulkner	Answered By	Transbay PMP	C Roge	er Rothenbui	ger
Co-Author: Balfou	r Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Reference a While excav section of co shoring wall Fremont. Ple	Ittached photo ating a pile next to 181 Fremo oncrete that was protruding in area fell from the foundation ease advise on how to procee	ont Street, a nto the CDSM wall of 181 ed.			The void shou surfaces of the grouted ancho around the ope wall and mesh concrete throu filling. A sketcl configuration of	d be filled with 2 e opening are clu rage of #3 rebar ening in the exis is required befor gh a "bird's mount is attached shuft f the repair pato	2000 psi concrete eaned. In additio r hooks at 12" c.t ting concrete bac ore placing repain uth" form for a co owing the desired ch.	e after n c sement r omplete d	
T-0172	LEED Submittal F	Requirements		Closed	06/13/2011	06/23/2011	06/21/2011	Potential	ly 🗌
From: Webco	or Construction LP	Joanne Filipas	To: Turner Construction Compar	n Daphne Faulkner	Answered By	Adamson Asso	ciates, Inc Geor	ge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Ref Spec Se	ection 01 81 13 Section 1.5:				We agree with	your proposal t	o combine the da	ata.	
According to shall be sub requirement identical to a requirement effort to mini acceptable t the technica	o spec section 018113.1.5, LE mitted in addition to other sub s specified elsewhere. If a su an item submitted to comply v s, a duplicate copy is to be su imize duplicate submittals, pl to issue one submittal packag I spec. and LEED spec secti	EED submittals omittal ubmitted item is with other ubmitted. In ease confirm it is ge to cover both ion requirements.							



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T-0173	BSE - Enhanced	Trial Batch Testing		Closed	06/13/2011	06/23/2011	06/15/2011	Potentially
From: Webcor Co	nstruction LP	Nhi Tran	To: Turner Construction Comp	an Daphne Faulkner	Answered B	y:Adamson Asso	ociates, Inc Geo	orge Metzger
Co-Author: Balfour Bea	atty Infrastructure, Inc.	Ural Yal						
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:	
Reference Specif attached mix des	ication Section 03 30 0 igns	1, 2.2.E and			ARUP Respo	inse:		
BBII, Becho, Cen Associates met o results of Buttres: Based upon the p BBII proposes to approval for use o 1. Mix 1: 85AEC3 2. Mix 5: 86AEC3 3. Mix 7: 87AEC3	tral Concrete, W/O, AR n Tuesday 5/24/2011 to s Primary Concrete Mix oreliminary results of the submit the following thr on the Buttress Primary B6 A6 A6	UP and Adamson o discuss the Trial Batches. e 2nd Trial Batch, ee mixes for Shaft Concrete:			This is accep	Tadie.		
BBII believes that use as the Buttre benefit to the Pro these three mixes each mix for a tot mix designs). The further refine the of the above three for future use as	t having additional mixe ss Primary Concrete we ject. BBII proposes "enl s as well as three additi- tal of nine mixes (please e intent of the enhanced information we currently e mixes, as well develop Primary Shaft Concrete	s available for ould be of great hanced testing" of onal hybrids of e see attached for I testing is to y have on all three o additional mixes						
One of the conce potentially accele insulated boxes in BBII proposes a 3 methodology of th the only exception +/- 5'x5'x4' deep of insulated forms. If excavation, lined aspects of the pro as previously sub	rns of 1st and 2nd Trial rated curing due to the n which the trail batch "of and trial batch using all of n being that the concret excavations in lieu of th Each mix would be plac with plastic to retain mo oposed trial batch meth mitted & approved.	Batches was Styrofoam cubes" were cast. of the same method placing, e will be cast into e Styrofoam ed in an individual pisture. All other odology would be						
The results of the and possibly sub Primary Shaft Co	e "enhanced testing" wo mitted for approval as a ncrete Mixes.	uld be evaluated dditional Buttress						
Please confirm th	at this is acceptable.							
 T-0174	301 Mission Wall	- New Curb Detail		Closed	06/14/2011	06/24/2011	06/20/2011	Potentially

06/14/2011

Answered By:

06/24/2011 06/20/2011



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			Turner Construction Comp	pan Daphne Faulkner		URS Corporati	on Dav	id Fyfe	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: A	Attached sheet C-5000				New concrete	e curb shall be pl	aced on top of to	opping	
The required curb set atop way down to applicable re	l curb details are not clea o finish pavers, onto topp structural slab. Addition bar details to match con	arly defined. Is new bing slab, or set all the ally, provide all idition.			Stab and sha See attached used for new T-0176.	detail for reinfor concrete curbs	s above top of pa cement. Concre shall be accordir	ete mix og to RFI	
T-0175	301 Mission V	Wall - Concrete Mix for Curb	Around Existing Manhole Covers	s Closed	06/15/2011	06/25/2011	06/20/2011	Potentia	lly
From: Webco	or Construction LP	David Hungerford	To: Turner Construction Comp	pan Daphne Faulkner	Answered B	y:URS Corporati	on Dav	id Fyfe	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference dr The existing west ends of documents d this concrete have a color mix design a these locatio	rawing C-2000 curb around the manhol the 301 Mission Wall is do not provide informatio e mixture. The existing co added to the mix design ind color specification (if ins.	les at the east and unknown. Design n as to the specs of oncrete appears to n. Please provide a necessary) to use at			New concrete finish. Contra for curb(s) ar follows; Concrete Mix produce stan Portland cem and water to Compressive thousand five eight (28) day exceed 0.45 Slump Range Air Content: I	e finish shall mat ctor shall provide d walkway(s) ba , Design and Tes dard weight cond ent, aggregate, a produce the follo Strength: excep hundred (4500) /s, with a water of by weight. a: Two (2) inches Five (5) to seven	ch existing conc e concrete mix d sed on specifica sting: Design the crete consisting d wing properties: t as noted below psi, minimum a cement ratio not t to Four (4) inch (7) percent.	rete esigns tion as mix to of mixture y, four t twenty- to es.	
					Mixed shall b following prop Location Min. 28 Day 3 Cement/cu. 1 Concrete Cui 300 Concrete Wa 250	e design to provi perties: Maximum S Strength (psi) ′d. b 00 Ikways 00	de concrete with ize of Aggregate Min Sacks of ¾"	6 5-1/2	



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			Integral Color: Sidewalk shall grey, Hi-Con at 5 lbs. per cub based concrete finish, with 25 square feet of silicon carbide Contractor shall submit mix d color) for review and acceptar Representative prior to placin Contractor shall provide samp ensure that it matches with ep-				be constructed c ic yard carbon bl 5 to 30 lbs per 10 sparkle grains. esign (including i nce by the TJPA g concrete. ble of new concrete	f a dark ack 0 ntegral te to rior to	
					placing new c	oncrete.	kisting concrete p	rior to	
T-0176	301 Mission Wa	all - Fill Pour Back and Nev	v Curbs	Closed	06/15/2011	06/25/2011	06/20/2011	Potential	ly 🗌
From: Webcor Cons	struction LP	David Hungerford	To: Turner Construction Co	mpan Daphne Faulkner	Answered By	URS Corporat	ion Davi	d Fyfe	
Co-Author:			SUCCESTION			Accord Sug	maation.		
Should the concrete 9"x12" curbs along be the same mix th	e mix design for the the north side of the at is used for the ne	fill pour back and e 301 Mission wall ew curb around the	SUCCESTION.		Concrete mix as specified ir	design for new RFI T-0175.	concrete curbs sl	nall be	
manhole? The mix manhole was reque	design for curbs arc ested in RFI T-0175.	ound the existing . Please advise.			Finished conc curb finish.	rete curbs shall	match existing c	oncrete	
					Contractor to Representativ placing concre	submit concrete e for review and ete.	e mix design to T d acceptance pric	JPA or to	

T-0177	BSE - Alternate Me	ethod Of Pile Remo	val Along 181 Fremont	Closed	06/15/2011	06/25/2011	06/16/2011	Potentially
From: Webcor Co	nstruction LP	Nhi Tran	To: Turner Construction Com	pan Daphne Faulkner	Answered By	:Turner Constru	iction Comr Jack	Adams
Co-Author: Balfour Bea	atty Infrastructure, Inc.	Ural Yal						
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:	
Reference attache	ed procedure, photos, ar	d sketch			Confirmed - M T-010 is used	ethod of pile rei to document wo	moval is accepta	ble. CR



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During the extraction of unforeseen piles along 181 Fremont, two piles located inside the proposed CDSM wall broke and are now too deep to extract under using the current extraction method. During the attempted extraction of pile 151, the pile continued to break. The top of this pile is approximately 9' below the base of the foundation wall. Considering the length of the adjacent removed piles, there is approximately 6' left to be removed. Pile 105 is approximately 6' below the base of the foundation wall leaving approximately 12'-14' to be removed. Further excavation to expose these piles is not reasonable. BBII proposes to drill the remainder of each pile out. See below the proposed procedure as per committee meeting and consultation with Viking Drillers Inc. on 6-15-11. It was agreed that this work will be charged to CR T-010. Also attached are photos and a drawing indicating the location of both broken piles (105 and 151).

Please provide direction.

T-0178	BSE - Connector W	all Layout	<b>T</b> .	Closed	06/16/2011	06/26/2011	06/21/2011	Potentially
Fro Co-Auth	on: Webcor Construction LP	Ural Yal	<b>10:</b> Turner Construction Compan Da	phne Faulkner	Answered By	Adamson Asso	ociates, Inc Geo	rge Metzger
<b>R</b> I Re	EQUEST: eference RFI#T-0151 and Sheets GT-210	3 and GT-2201	SUGGESTION:		ANSWER: ARUP Respor	Accept Sug	gestion:	
Pe ac Pl in:	er the Engineer's response to RFI#T-0151 cceptable to expand the overall Buttress 4 ease advise if the CDSM connector colun stalled per contract drawings GT-2103 and	, it is -4" to the east. Ins can still be d GT-2201.			This is not acc increase the s connector colu supplemented CDSM materia	eptable. If the C pacing of the dr umns will need t with additional al for the full wid	Contractor wishe illed shafts, ther o shift and / or b columns to prov th of the buttres	s to i the ie ide s.
T-0179	301 Mission Wall - I	Detail at Steel Basepla	tes on South Side	Closed	06/21/2011	07/01/2011	07/11/2011	Potentially
Fre	om: Webcor Construction LP	David Hungerford	To: Turner Construction Compan Da	phne Faulkner	Answered By	URS Corporati	on Dav	id Fyfe
Co-Auth	nor:							
<b>R</b> I "R	EQUEST: Reference drawing D/A-6000 and attached	sketch	SUGGESTION:		ANSWER: It is noted that	Accept Suge	gestion:	alled



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invert level.

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Detail D/A-6000 does not provide a plywood panel termination detail at the steel baseplate locations along the south side of the 301 Mission wall. At the locations of the steel baseplates, use of sealant and backer rod would leave the steel baseplate exposed (see attached sketch). Please advise."					flashing to pro response. Alt specified in co protecting the	plate prior to this l n of flashing is no ts this means of is acceptable.	RFI It		
T-0180	BSE - CDSM Wall To	olerance	с	losed	06/22/2011	07/02/2011	06/22/2011	Potentia	lly
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction Compan Daphr	ne Faulkner	Answered By	Transbay PMP	C Rogei	Rothenbu	rger
Co-Author: Balfour E	Beatty Infrastructure, Inc.	Ural Yal							
REQUEST: Reference Spe As requested I modify the hor The new goal i planned center proposed by th structure at the DND respectfu CDSM wall tole trainbox & up t There will be n associated with However; there the Structural 0 handled in futu Please confirm	ecification Section 31 56 13 by the TJPA, DND submits th izontal tolerance for the CDSI is to set the wall 2" outside of rline of shoring wall. This solu- ne TJPA in order to not encroa e bottom of the train box. ally requests the maximum so erances be revised to 0 inche to 5 inches outside the trainbox to additional excavation and/on the this increase in tolerance fro e may be future additional cos Concrete & Waterproofing that are trade packages. h, if this is acceptable.	is request to M shoring wall. the original ution has been ach into the Idier pile & s into the two r bracing costs om BBI. st impacts to t are to be	SUGGESTION:		ANSWER: TJPA did not r Contractor was tolerances for shoring wall th and TJPA wou avoid any encl with the Trans difficult to rem TJPA has no of CDSM shoring towards the T box structure. (CDSM wall) a The 4" top hor allow at 1/150 invert level wit the steel beam 0.70". It is understoo associated wit work and that concrete gene horizontal plac	Accept Sugg request this RFI. s concerned abor top horizontal po- at the Contractor ald support such roachment of the it Box concrete s ediate. bbjection in the h wall if the horiz TC box structures The verticality to and 1/200 (steel izontal tolerance in 55 feet a nea h the CDSM wal n to be clear of the d that there is no h this change for TJPA accepts the rated by this some	pestion: TJPA stated that but meeting the position of the CDS or should submit a a request in order e CDSM shoring to structure which we horizontal setting ontal tolerance is and 4" away from olerances of 1/156 beam) remain in e away from the we r 0" clearance at and will allow at the structural outling of cost or time r the BSE Contra ne additional over all adjustment in one for a better cl	if the SM in RFI r to vall bould be of the 0" in the blace. rall will the 1/200 ne by ctor break the top hance	



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					It is also understood that the use of the increased top horizontal tolerance is contingent on actual field physical property line clearances for the CDSM shoring wall.							
T-0180.1	BSE - CDSM Wa	all Tolerance		Closed	06/24/2011	07/04/2011	07/07/2011	Potential	ly 🗌			
From: Webcor Co	onstruction LP	Nhi Tran	To: Turner Construction Compa	n Daphne Faulkner	Answered By	Transbay PMP	C Roge	er Rothenbu	ger			
Co-Author: Balfour Be	atty Infrastructure, Inc.	Ural Yal										
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:					
Please delete the RFI" of the respo wrong statement Emilio Cruz, PMI Schedule Review Conference Root	inse to RFI#1-0180 e first sentence "TJPA inse for RFI T-0180, be PC, requested to subm Meeting on 6/14/2011 n, 183 Fremont St.	did not request this ecause it is the hit this RFI at the 1 at W-O JV Office			TJPA has allo verticality spe (1/200) and th wall subcontra for placing the depth of 55ft t encroachmen At the very lea minimize furth the 1/200 is st TJPA underst Since encroad concrete struct setback to avo while maintair issue of who r TJPA has acc concrete from Contractor ha system from a	Now Trequest is RFI for expande oring wall subcor tolerances and v would accept a Specifications ( held my Emillio wed a 4" set bar cifications for the e CDSM (1/150) actor has initially actor has initially actor has initially as teel soldier be here could be as t (1/200x55x12 - ast it would seen her the posibility till a difficult spec- ands it from the chment can be v ctural wall TJPA oid difficult encro- ing the specifica- requested what a septed the poten allowing a large s accepted any ia a larger impact.	s defined. TJPA d tolerances but ntractor felt that wished to have T larger set back ( 2"). This is the s Cruz. ck while maintair e steel soldier pil ). The CDSM sho selected a 2" set ams. At 1/200 fo s much as 1.3" o 2" = 1.33"). In that a 3" setbac for encroachmer cification to achie CDSM subcontri- ery problematic supports the larg pachment proble ations on vertical and when is imm tial for additional r setback and th impact to the bra	and only if they JPA 4") than ame hing the les oring etback or a f ck would ht since eve as actor. with the ger ms ity. The aterial. e BSE icing				



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T-0181	BSE - CDSM Pile	Tolerance Measurem	nent Location	Closed	06/22/2011	07/02/2011	07/01/2011	Potentia	lly
From: Webcor Cons	struction LP	Nhi Tran	To: Turner Construction Compa	n Daphne Faulkner	Answered By	Adamson Asso	ociates, Inc Geor	rge Metzger	
Co-Author: Balfour Beatty	y Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Specifica	ation Section 31 56 13				ARUP Respor	nse:			
BBII's subcontracto location of the soldi measured. Please f	or DND would like to co fer pile, where the pile find below DND's ques	onfirm the exact tolerance is to be stion:			We confirm th location of the	at the tolerance CDSM wall and	refers specifical soldier pile cen	ly to the terlines.	
"It is our understand pile beams is to be elevation. Is this co	ding that the tolerance measured at the plan prrect?"	of the soldier top of pile			Section 31 56 13 3.3 A. states: "The location of the CDSM wall centerline relative to that shown on the Drawings is 0" toward the excavation and 2" away from the excavation." This refers to the location at the ground surface ("original grade") at the start of drilling.				
Please confirm that tolerance measurer	DND's interpretation on the second ment is correct.	of the pile			Section 31 56 construction to pile centerline is 0" toward th from the excar ground surfac installation.	13 3.13 B. 8. st blerance for the relative to that s e excavation an vation." This ref e ("original grad	ates: "Acceptabl location of the so shown on the Dra d 3" maximum a fers to the locatio e") at the start of	e bldier awings way on at f pile	
					Please also re B 2 which stip of the CDSM	efer to 31 56 13 ulates respectiv wall and soldier	3.4 A and 31 56 ely the vertical a piles.	13 3.13 lignment	
T-0181.1	BSE - CDSM Tole	rances		Closed	07/21/2011	07/31/2011	07/26/2011	Potentia	lly
From: Webcor Cons	struction LP	Nhi Tran	To: Turner Construction Compa	n Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geor	rge Metzger	
Co-Author: Balfour Beatty	y Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference RFIs #T	-180, #T-0180.1, #T-0 <sup>-</sup>	181 and			ARUP Respor	nse:			
Specification Section					Using the num	nbering in the RI	FI:		
<ul> <li>Previous RFIs T-180, T-180.1, and T-181 have all addressed CDSM shoring wall tolerances. Below is BBII's interpretation of the responses:</li> <li>1. Horizontal Tolerance: <ul> <li>a) CDSM Columns: 0" in towards the train box, 2" maximum away from the train box - measured relative to the "blan" CDSM shoring wall centerline located at the</li> </ul> </li> </ul>					1 a. 0" in towa from the train alignment exc 33.5. 0" in tow from the train A/26-30 and A	ards the train box box is acceptab ept at wall segm vards the train bo box is acceptab v/30-33.5.	x, 4" maximum a le everywhere al nents A/26-30 an ox, 2" maximum le at wall segme	way ong the d A/30- away nts	
the "plan" CDSM shoring wall centerline located at the ground surface (original grade) at the start of drilling (W/O comment - Reference Specification Section 31 56 13, 3.3.A)					1 b. 0" in towa from the traint alignment.	ords the train box	x, 4" maximum a e everywhere alc	way ong the	



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b) S	teel Soldier Pile: 0'' in towards the ti	rain box, 4"			2 a. Confirmed				
max the ' grou (W/0 13, 3	imum away from the trainbox - mea 'plan" CDSM shoring wall centerline nd surface (original grade) at the st D comment - Reference Specificatio 3.13.B.8)	sured relative to e located at the art of drilling on Section 31 56			2 b. Confirmed				
2. V a) C 1:15 (W/0 31 5	ertical Tolerance: DSM Columns: Inclination deviation 0 (horizontal to vertical) D comment - Same as stated in Spe 6 13, 3.4.A)	no more than ecification Section							
b) S (hor (W/0 31 5	teel Soldier Pile: Inclination no more zontal to vertical) D comment - Same as stated in Spe 6 13, 3.13.B.9)	e than 1:200 ecification Section							
Plea	se confirm this is acceptable								
T-0182	BSE - Inclinome	ter Locations Within 1	he CDSM Wall	Closed	06/23/2011	07/03/2011	06/24/2011	Potential	ly 🗌
Fron	: Webcor Construction LP	Nhi Tran	To: Turner Constructi	on Compan Daphne Faulkner	Answered By:	Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Autho	r: Balfour Beatty Infrastructure, Inc.	Ural Yal							
REG	UEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Refe Sec	erence Sheets GT-1301, GT-1302, S ion 31 56 13. and Transmittal No. 1	Specification 40-01802			ARUP Respon	se:			
(atta	ched)				Provide pipes a	at the piles (bea	ams) in accordan	ce with	
Plea drav loca that	se refer to the Instrumentation Plan vings GT-1301 & GT-1302, which de tions of the 15 inclinometers (IW-1 t are to be installed through the CDS	within the contract epicts the rough through IW-15)			478, 497, 556, with the RFI for	7, 138, 226, 30 641, 730. Refe the beam nun	of, 325, 340, 443 of, to the plan sub nbers.	mitted	
Plea incli thro (atta	use notify BBII of the exact locations nometers by utilizing the soldier pile ugh 681, sent in Transmittal No. 140 iched).	numbers 1 0-01802			As noted in 13/ the bottom of the covered with de cement.	GT-5101, woo ne pipe. The to uct tape to prev	d block shall be up of the pipe sha vent filling with sc	used at II be vil	



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T-0182.1	BSE - Connecto	or Wall Inclinometer Lo	cations	Closed	06/30/2011	07/10/2011	07/05/2011	Potential	у 🗌
From: Webcor C	Construction LP	Nhi Tran	To: Turner Construction Compa	n Daphne Faulkner	Answered By	Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author: Balfour Be	eatty Infrastructure, Inc	. Ural Yal							
REQUEST: Reference RFI#	#T-0182, Transmittal No	o. 140-01802, and	SUGGESTION:		ANSWER: ARUP Respo	Accept Sug	gestion:		
BBII is in receip 0182, which lists inclinometers wi was already inst test panel. Can the inclinor	ection 31 56 13 ot of the Engineer's resp s the fourteen pile num ill be installed. Please r talled on 06/18/2011, a meter casing be installe	oonse to RFI T- bers where the note that pile # 443 s part of the CDSM ed at pile # 446.			The inclinome number 440 r	eter casing shall ather than numb	be installed in p ber 443.	ile	
instead of pile #	443?								
T-0183	BSE - Connecte	or Wall Shift		Closed	06/23/2011	07/03/2011	06/27/2011	Potential	у 🗌
From: Webcor C	Construction LP	Nhi Tran	To: Turner Construction Compa	n Daphne Faulkner	Answered By	Adamson Asso	ociates, Inc Geo	orge Metzger	
Co-Author: Balfour Be	eatty Infrastructure, Inc	. Ural Yal							
REQUEST: Reference RFI# attached sketch	≠T-0178, Sheets GT-22	01, GT-5101, and	SUGGESTION:		ANSWER: ARUP Respo	Accept Sug	gestion:		
Per the Enginee acceptable to sh east and to add material for the that it is accepta CDSM Connect and add two mo please confirm t Gridlines 26 and Table 16/GT-51	er's response to RFI T-( hift the CDSM Connect additional columns to p full width of the Buttres able to shift the lower th tor Columns approximal ore columns to the top r that the CDSM Shoring d 30 can still be installe 01.	D178, it is or Columns to the provide CDSM s. Please confirm nree rows of the tely 3'-6" to the east row. Additionally, Wall between d per GT-2201 and			Provided ther acceptable to columns as p The CDSM SI shall be instal	e is no additiona shift the connec roposed and sho horing Wall betw led per GT-2207	al cost to the TJF ctor columns and own on the sketo veen Gridlines 20 1 and Table 16/0	PA, it is 1 add 5h. 6 and 30 6T-5101.	
T-0183.1	BSE - Connecte	or Wall Shift		Closed	06/30/2011	07/10/2011	07/11/2011	Potential	у 🗌
From: Webcor C	Construction LP	Nhi Tran	To: Turner Construction Compa	n Daphne Faulkner	Answered By	Adamson Asso	ociates, Inc Geo	orge Metzger	
Co-Author: Balfour Be	eatty Infrastructure, Inc	. Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference RFI#T-0151, RFI#T-0178, RFI#T-0183, Specification Sections 31 63 29 and 31 56 13, and attached drawing					ARUP Respo The locations	nse: of the CDSM co	onnector column	s shown	



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Please refer to the Engineer's response to RFI # T-0151, which accepted the expansion of the Buttress 4'-4" to the east. Please also refer to the Engineer's response to RFI No. T-#0178, where the designer required the connector columns be shifted and/or supplemented with additional columns to provide CDSM material for the full width of the buttress. BBII suggests to revise the connector column layout per the attached drawing and install two additional connector columns at Grid "A" and "30" intersection.

Please confirm, if the proposed revision of the CDSM connector columns according to the attached drawing fulfills the design requirement.

Also, please issue revised construction drawings that would reflect the changes made to the Buttress and the CDSM connector walls. on the sketch accompanying the RFI are acceptable. The locations of the buttress shafts shown on the sketch accompanying the RFI have been revised. Please see the marked-up sketch attached to this response.

A revised GT-2201 will not be issued.

T-0184	BSE - CIDH Pile R	ebar Cage Hoop Size	Closed	06/27/2011	07/07/2011	06/28/2011	Potentially
From: We	ebcor Construction LP	Nhi Tran	To: Turner Construction Compan Daphne Faulkner	Answered E	<b>3y:</b> Adamson Ass	ociates, Inc Geo	orge Metzger
Co-Author: Ba	lfour Beatty Infrastructure, Inc.	Ural Yal					
REQUES	ST:		SUGGESTION:	ANSWER:	Accept Sug	gestion:	
Reference	Reference Sheet GT-5202, Specification Section 03 20			ARUP Resp	onse:		
01, attac	hed sketch, and approved Shop	Drawings from					
Раскаде	TA2010-032001A05			the soil face	e clearance from from 5" to 7 1/4"	is acceptable.	g steel to
Drawing	12/GT-5202 shows 5" clearance	between the					
hoop OD	and the inside diameter of a 7' +	-/- 2" shaft. Per					
discussio	ons with Becho, at least 3" of clea	arance is needed					
between	the rebar spacers and the ID of t	he casing to					

BBII would like to propose 7 1/4" minimum clearance in lieu of the 5" clearance (shown on 12/GT-5202) between the hoops and the inside diameter of the hole. Changing the clearance from 5" to 7 1/4" would give Becho the 3" of clearance that they need between the spacers and casing ID.

facilitate proper installation of the rebar cages inside the

casing.



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Note that the ap clearance to the submit for your showing the pro	oproved rebar shop dra e hoops as per 12/GT- records only revised s oposed 7 1/4" minimur	awings show 5'' 5202. BBII will shop drawings n clearance.							
T-0185	Division 01 sp	pecifications issued for the	e TG08.1 package	Closed	06/29/2011	07/09/2011		Potential	ly 🗌
From: Webcor C	Construction LP	Tim Maxwell	To: Turner Construction Comp	an Daphne Faulkner	Answered By:				
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Confirm if any o 00 01 15, 00 0 30, 01 10 30 / / bid documents a project specifica issued to W/O b	of all of the Specification of 16, 00 03 50, 01 1 APA, and 01 80 50 iss are to be incorporated ations. If so, the spec by Field Order or Char	on Sections 00 01 10, 0 20 / APH, 01 10 sued for the TG08.1 I into the overall ifications should be nge Order.							
T-0186	BSE - Hazardo	ous Materials Removed Fr	om 564 & 568 Howard Street	Closed	06/30/2011	07/10/2011	07/07/2011	Potential	ly 🗌
From: Webcor C	Construction LP	Nhi Tran	To: Turner Construction Comp	an Daphne Faulkner	Answered By:	Turner Constru	uction Comr Jack	Adams	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Final Assessment: As St) - June 2011 Consulting Asso	I Pre-Demolition Haza sbestos & Lead Surve , prepared for ERM-W ociates	rdous Materials y (564 & 568 Howard /est by Millennium			Haz Mat abate in this report, h demolition drav	ment will includ owever remova vings issued fo	de the materials i al will be to the e r Demolition.	dentified xtent of	
Please confirm in the Final Pre- Assessment: As St) - June 2011 contractor.	that all the hazardous -Demolition Hazardous sbestos & Lead Surve , will be removed by th	materials identified s Materials y (564 & 568 Howard he demolition							
T-0187	BSE - Connec	tor Wall Inclinometer Loc	ations - SEE RFI 182.1	Closed	06/30/2011	07/10/2011	08/23/2011	Potential	ly 🗌

From: Webcor Construction LP

Nhi Tran

Co-Author:

To: Turner Construction Compan Daphne Faulkner

Answered By:Webcor Construction LP Joanne Filipas



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Balfour I REQUEST: Reference RF Specification S BBII is in rece 0182, which lis inclinometers was already in test panel. Can the inclino instead of pile	Beatty Infrastructure, Inc. I#T-0182, Transmittal No. 14 Section 31 56 13 ipt of the Engineer's respons sts the fourteen pile numbers will be installed. Please note stalled on 06/18/2011, as pa ometer casing be installed at # 443?	Ural Yal 0-01802, and e to RFI T- s where the that pile # 443 irt of the CDSM pile # 446,	SUGGESTION:		ANSWER: SEE RFI T-018	Accept Sugg 32.1.	jestion:		
T-0188	BSE - Timber Piles	Minna Street		Closed	07/01/2011	07/11/2011	07/05/2011	Potentially	/
From: Webcor	Construction LP	Masashi Kojima	To: Turner Construction Compan	Daphne Faulkner	Answered By:	Turner Constru	ction Comr Jack	Adams	
Co-Author: Balfour	Beatty Infrastructure, Inc.	Ural Yal							
REQUEST: Reference D-2 During the pre- between Gridl piles. The time drawings. See The attached from the center the general co encountered v Please confirm piles, tracking change order obstructions.	2211 and D-5101. -trenching operation on Minr nes 9-17, BBII discovered u per piles are not shown on th attached BSE drawing D-22 pictures indicate timber piles riline of the CDSM wall. Thes nditions set out in article 3.0 vere not outlined in the bid do the removal of the "unfores and paid under a Force acco similarly as done for Zone 4	a Street nknown timber e BSE 11, D-5101. to be approx 2ft se piles meet 5A.2. The piles ocuments. teen" timber ount contract pre-trench	SUGGESTION:		ANSWER: Please refer to "In areas when existing pile ca and/or piles pri Building CDSM 6)." Please refer to states, "Width and De This includes a "Unforeseen C 00 (General Co (Unforeseen on Article 3.05.C s C. Differing Sit 1. All that is i from the Contr	Accept Sugg note on Drawin e (N)CDSM wal ps and piles, re or to construction perimeter short note on Drawin pth as required all piles within the onditions" are conditions) Articles Changed Concest states, e Conditions sh ndicated in or re act Documents	Jestion: Ig D-2212 which : I conflicts with the move (E) pile can on of (N) Transit ( ring wall (see Not ag GT-5103 which to remove obstact to remove obstact to remove obstact to remove obstact to remove obstact as CDSM wall foo covered in Section a 3.05.A.2 and 3. ditions). all not include: easonably interprover or Reference	states, e ps Center e 3 and cles'' tprint. n 00 07 05.A.3	



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					Documents;				
					2. All that co	uld be seen on	Site		
					3. Conditions that are materially similar or characteristically the same as those indicated or described in the Contract Documents or Reference Documents.				
					Since Section 31 56 13 discusses both pre-trenching and the removal of timber piles and Bid Item #6 is for the removal of timber piles before the CDSM shoring wall is installed TJPA believes that this work was indicated and will provide payment for it under Bid Item #2, #4, #6, and #7.				
					There will be n timber piles fo	o additional pay r the CDSM wal	/ment for the rem I.	noval of	
T-0188.1	BSE - Timber Pile	es Minna Street		Closed	07/07/2011	07/17/2011	07/12/2011	Potentia	lly
From: Webc	or Construction LP	Masashi Kojima	To: Turner Construction Compa	n Daphne Faulkner	Answered By	Adamson Asso	ciates, Inc Geor	ge Metzger	
Co-Author: Balfor	ur Beatty Infrastructure, Inc.	Ural Yal							
REQUEST: Reference F	RFI T-0188, Drawing D-2211	and D-5101.	SUGGESTION:		ANSWER: ARUP Respor	Accept Sug	gestion:		
Further to th did not addi method. Please see location in r structures. I shoring box A line in Zoo Please cont entire length	the TJP A response RFI # 188 ress the mentioned timber pile the attached cross section sh elationship to the existing util Due to the pile location, in rel BBII proposes direct extraction a. irm this removal method is an of Minna Street.	B, this response e removal nowing timber pile ities and ation to the on as done on cceptable for the			Arup recomme these piles foll response to R	ends that the pro ow the procedu FI T-0146.4.	ocedure for remo re described in A	ving rup's	



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Co-Author: Balfour	Beatty Infrastructure, Inc. Ural Ya							
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference res	ponse to RFI#T-0188.1 and RFI#T-014	6.4		TJPA Repres	entatives and A	rup will observe th		
As discussed 7/13/2011, sai the low streng Also, TJPA re instruct the ex	at the TG03 BSE Design Team meetin nd shall be used for back fillings instea th material described in RFI#T-0146.4. presentative shall observe the extractio traction method in the field, if necessar	g on d of n and y.		observe the n final verification and suggest a	nd described abo nod will be accept the method at tha	ve for able t time.		
Please confirm	n.							
T-0188.3	BSE - Timber Piles Minna St	reet	Closed	07/18/2011	07/28/2011	07/26/2011	Potentia	ily 🗌
From: Webcor	Construction LP Nhi Tra	To: Turner Construction Co	ompan Daphne Faulkner	Answered B	<b>/:</b> Transbay PMF	PC Roge	er Rothenbu	rger
Co-Author: Balfour	Beatty Infrastructure, Inc. Ural Ya							
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference RF BBII has conc and utilities, a performed on response to R undermining a process (see a Please advise	I#T-0188.2 and attached photos erns for the integrity of the adjacent str s a result of the pile extraction being Minna Street in accordance with the FI#T-0188.2. BBII has observed and adjacent settlement during the extra attached photos).	eet action n that		Contractor's of street and util used - not the performed on response to F The observed during the ext prevent dama The methods	concern for the i lities is as a resu e result of the pil Minna Street in RFI#T-0188.2. I undermining an traction process age to Utilities in allowed in RFI	ntegrity of the adj ult of the shoring r e extraction being accordance with nd adjacent settle is to be restored stalled in Minna S F-0188.2 are to be	acent method the ment to Street.	
				Section 31-56 trenching) als Excavation & and or adjace Section 31-56 "Comply with trench shoring and Restorati regulatory rec shoring syste and submittee requires for a sloped accorr a Professiona	5-13 Part 3.2.C ( o references Se Restoration) for all regulatory re g." Both Section on Specification guirements for tr m designed by a d to TJPA as we ll trenches deep ding to OSHA st al Engineer.	CDSM Wall - Pre- ection 32-12-17 (S pre-trenching " right of way." In a equires the Contr quirements regar the Street Excav 32-12-17 and the ench shoring requ a Professional En II as the SFDPW er than 5 feet and andards be desig	treet within ddition ractor to ding ation ation juire a gineer . OSHA I not ned by	



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Given the above it is the Contractor's responsibility to select the means and methods and to design pretrench shoring meeting the above requirements.

TJPA observations of the Minna Street pre-trenching operations showed that the "trench shield" method of support where excavation below the trench shield required for both sinking the shield and exposing "obstructions" allowed the loose fill sand at the bottom of the excavation to slough into the excavation. This loss of ground led to settlement of the street and potential settlement of the adjacent water line and sewer.

TJPA notes that the Contractor has commenced using near-flat sheet piles in combination with the trench shield bracing to achieve the depths required. However, no submittal of a design done by a professional engineer has been submitted to TJPA in accordance with the requirements from the Specifications stated above.

An acceptable method of pile extraction includes a suitable trench shoring method and plan that meets the Specification requirements. TJPA has no objection to the use of braced sheet piles as long as the above Specification requirements are met. The actual method of pile extraction with vibration and sand filling has been addressed in a previous RFI and TJPA has witnessed a satisfactory site demonstration of this method of pulling timber piles.

\_\_\_\_\_

-----

7/20/2011 - George Metzger:

ARUP Response:

Regarding the removal of the piles, Arup recommended a procedure in response to RFI 188.1. Contractor to confirm that this procedure is being implemented as described in the RFI response.

Regarding the installation of temporary shoring to



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					access the pile	es, this is the C	ontractor's means	sand	
					memous.				
T-0189	BSE - CDSM Spoi	Is - Initial Off Haul		Closed	07/01/2011	07/11/2011	07/05/2011	Potential	ly 🗌
From: Web	cor Construction LP	Masashi Kojima	To: Turner Construction C	compan Daphne Faulkner	Answered By	Transbay PMP	C Roge	r Rothenbur	ger
Co-Author: Balfo	our Beatty Infrastructure, Inc.	Ural Yal							
REQUEST	:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Per our me TCCO and the CDSM hazardous to lack of s of cross co BBII is curr their Const acceptance (not Class Please cor	eeting on 6-23-11 with the TJPA W/O, this RFI is to confirm the spoils to be classified as Class waste and will be paid under b soil testing data required by the intamination. rently in talks with various local ultant with the advice of Treadw e of the spoil to be classified ur 2). Ifirm.	A, PMPC, T&R, initial off haul of s 2 non- id item #38 due landfill and risk landfills and vell Rollo for the nder "clean soil"			"Initial CDSM overflow spoils For the single panel overflow without prejud overflow mate materials (30 I a Class 2 land with the Contr waste materia classification f agreed with th	overflow "spoils s from the CDSI purpose of rem r now on the sur- ice for the class rials the "iniital" oads+/-) from Z fill site. Payme act for disposal I for this one tim or CDSM overfl e land fill opera	" is considered o V test panels in Z oving the CDSM face in Zone 4 au ification of future CDSM overflow cone 4 may be ha nt will be in acco of Class 2 hazard he until a future ow materials can tor.	nly the Cone 4. test nd CDSM uled to rdance dous be	
T-0190	BSE - Connector	Wall Daily As Built Req	uirement	Closed	07/01/2011	07/11/2011	07/13/2011	Potential	ly 🗌
From: Web	cor Construction LP	Masashi Kojima	To: Turner Construction C	compan Daphne Faulkner	Answered By	Turner Constru	iction Comr Jack	Adams	
Co-Author: Balfo	our Beatty Infrastructure, Inc.	Ural Yal							
REQUEST	:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference To satisfy t continue to on a daily t within 24 h Please cor requiremer	Specification Section 31 56 13 the Section 31 56 13 1.4F requ b submit the "DND Daily Constr basis along with the attached a ours of column installation. firm that this will satisfy the Se tt: "submit as-built drawings with	1.4F. irement, BBII will uction Report" s-built drawing ection 1.4F thin 24 hours of			The attached ( (i.e. surveyed therefore does requirements ( etc.).	daily report lack as-builts, colum not satisfy the of spec 31 56 1	s required inform In diameter, etc.) documentation 3 (1.4, 3.5, 3.11,	ation and 3.13,	



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T-0191	BSE - Connecto	or Wall Final As Built Req	uirement	Closed	07/01/2011	07/11/2011	07/12/2011	Potential	ly 🗌
From: Webcor (	Construction LP	Masashi Kojima	To: Turner Construction Compa	an Daphne Faulkner	Answered B	y:Adamson Ass	ociates, Inc Geo	orge Metzger	
Co-Author: Balfour B	seatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Spe	cification Section 31 56	13 3.3B.			ARUP Respo	onse:			
To satisfy the S proposes to sul California licens of each Zone.	Section 31 56 13 3.3B re bmit as built drawings pr sed surveyor at the appr	quirement, BBII repared by a roximate completion			Contractor to of column ins by a licensed wall relative t	submit as-built stallation. The dr surveyor and sh o excavation alio	drawings within 2 awings shall be p nall indicate the 0 gnment.	24 hours prepared CDSM	
Please confirm requirement: "F Contractor shal California licens CDSM walls rel	that this will satisfy the Following CDSM wall cor Il submit as-built drawing sed surveyor indicating t lative to the excavation a	Section 3.3B hstruction, the gs prepared by a he location of the alignment."							
T-0191.1	BSE - CDSM Co	onnector Wall Final As Bu	iilt Requirement	Closed	07/27/2011	08/06/2011	08/03/2011	Potential	ly 🗌
From: Webcor (	Construction LP	Nhi Tran	To: Turner Construction Compa	an Gary Krutsch	Answered B	y:Adamson Ass	ociates, Inc Geo	orge Metzger	
Co-Author: Balfour B	Seatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference RFI#	#T-0191 and Specification	on Section 31 56 13			ARUP Respo	onse:			
BBII disagrees requirements of T-0191.	with TJPA's interpretation f the Specifications in its	on of the s Response to RFI			Submitting as project staff v acceptable.	s-built drawings   vithin 24 hours c	orepared by BBI f installation is	I/DND's	
Article 1.4F, Se Record Docum 1. Submit as-bu	ection 31 56 13 of the Sp ents uilt drawings within 24 ho	pecifications state:			As-built draw shall be subn wall are comp	ings prepared by nitted as each of oleted:	a licensed surv the following se	eyor ctions of	
2. Note and sub	bmit immediately to the <sup>-</sup>	TJPA's			1. A-line insid	le Zone 4			
Representative amounts of cen	e unusual conditions encoment grout overpours du	ountered, including ring construction.			2. J-line insid	e Zone 4			
Article 3.11D2,	Section 31 56 13 of the	Specifications			3. Beale and	N-lot			
state: The Daily Quali	ity Control Report shall i	nclude as a			4. Fremont S	treet			
minimum the re	minimum the results of the following QC parameter								
a. Rig number	monitoring for each column: a. Rig number				5. First Stree	t			
b. Type of mixir	b. Type of mixing tool				6. A-line inside Zone 3				
d. Column diam	<ul> <li>c. Date and time (start and finish) of column construction</li> <li>d. Column diameter</li> </ul>				7. J-line insid	e Zone 3			



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Number e f. g T h d i. g A (( F S s s t t t S	e. Column top and bo Grout mix design do Surry specific grav Testing Agency) Description of obst lifficulties during inst Surveyed as-built or rid Article 3.3B, Section emphasis added) following CDSM wall ubmit as-built drawin urveyor indicating th to the excavation alig Article 3.3B of the ab survey performed b proposal in RFI T-019 Article 3.3B of the ab survey performed b composal in RFI T-019 Article 3.3B by propo- prepared by a Califor completion of the CD the completion of the CD	Subject tom elevations esignation ity measuremen ructions, interrup allation and how f previous day's w 31 56 13 of the S construction, the gs prepared by a e location of the nment. ove provides the y California licen D1 exceeded the sing to submit as nia licensed surv SM wall at each entire CDSM sco	ts (obtained from the tions, or other they were resolved work in relation to specifications state: e Contractor shall a California licensed CDSM walls relative only requirement for sed surveyor. BBII's requirements of -built drawings eyor at the Zone, rather than at ope as the			Status	Date Created 8. A-line insid 9. J-line insid 10. J-line insid gridline 1 The drawing within 14 cal	Date Required	Date Answered	Cost Impact	Proceed
F b b a a re	Please confirm that s by BBII/DND's projec and as-builts of each by a licensed survey dditional survey by a areas of concern, to e equirements.	ubmitting as-buil t staff within 24 h zone at the com or is acceptable. a licensed survey ensure conforma	t drawings prepared lours of installation pletion of the zone BBII will perform or if necessary at nce with the project								
T-0192		BSE - Unfores	een Tank on Gridline 35			Closed	07/06/2011	07/16/2011	07/08/2011	Potentia	lly
Fr	rom: Webcor Constr	uction LP	Masashi Kojima	To: Turner Constr	ruction Compan Daph	ne Faulkner	Answered B	y:Transbay PMP	C Roae	er Rothenbu	rger

Masashi Kojima

Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal

#### REQUEST:

BBII discovered an unforeseen tank structure during the pre-trenching operation along Gridline 35 between Gridline A-J that is not shown on the contract plans. The

#### SUGGESTION:

Roger Rothenburger

#### ANSWER: Accept Suggestion:

TJPA environmental consultant has contacted Golden Gate Tank Removal Co and removal is being scheduled. The TJPA has not yet received the



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tank contains lid excavation arou liquid. This tank continuation of t as soon as pose	quid substance; the odor f ind the tank, it is assumed needs to be removed to the pre-trenching operatio sible.	rom the d this is a fuel allow the n. Please advise			paperwork froi to schedule th W/O - BBI reg	m the Golden G e date. TJPA wi arding handling.	ate Tank Remov Il discuss further	al Co. with	
T-0192.1	BSE - Unforeseer	n Tank on Gridline 35		Closed	07/11/2011	07/21/2011	08/01/2011	Potential	lly
From: Webcor C	Construction LP	Nhi Tran	To: Turner Construction Compa	an Daphne Faulkner	Answered By	Turner Constru	ction Comr Kevi	n Chiu	
Co-Author: Balfour Be	eatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	estion:		
Reference RFI#	T-0192 and attached pho	to			See attached	test reports			
The unforeseen operation on Be spilled and is pr the surface. The address the soil soil is contamin current approve	tank discovered during the cale Street contains liquid. resent in the surrounding se response to RFI#T-0192 I surrounding the tank. BE ated with hydrocarbons in red Class 1 profile.	he pre-trench The liquid has soil, visible from 2 does not BII suspects this 6 excess of the			Report Compl Number of Pa 20, 2011 - 110 McCampbell A 25, 2011 - 110	eted By - Title - ges malytical, Inc 17352 - 8 malytical, Inc 17352 A - 8	Date - Work Ord Analytical Repor Analytical Repor	ler - t - July t - July	
Please advise of mothods for the	on the classification, limits	and disposal							
					07/15/2011 Ro	oger Rothenburg	jer		
					TJPA has had consultant,Tre for the underg contents to be determine the proper dispose following respo	their environme adwell & Rollo ( round storage ta removed, test s extent of the co al of the soil aroi onse has been r	ental Peter Cusack) a ank (UST) and its camples of the m ntamination, and und the tank. The eviewed by Mr. (	rrange s laterial, l the e Cusack.	
					<ol> <li>Soils in the as Class I from 6~22 feet belo 4 &amp; 7.</li> <li>Remove an immediate are sides of the U: 3. If soils beyo or petroleum of</li> </ol>	area of the UST n 0~6ft below gr w grade (Soils N d stockpile cont a of UST includ ST and 2 feet be and this area stil boor then remov	were orginally c ade and Class II Management Pla aminated soils ir ing 2 feet along f slow the UST. have a strong g e those soils as	lassified from n figure the the asoline well.	



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					<ol> <li>The sample consultant Pet will be chemic</li> <li>The results approximately</li> <li>Maintain the classifiecation given by TJPA</li> <li>T. Backfill the contaminated removed with Specifications</li> </ol>	es taken by TJP ter Cusack on T ally tested for d of these tests v 2 weeks (July 3 e contaminated is complete an A at that time. open trench/ho material descri clean suitable r	A environmental 'hursday July 14, ifferent contamin- vill not be availab 28, 2011). stockpiles covered d further direction le from which the bed above has be naterial as define	2011 ents. le for ed until is are een d in the	
T-0192.2	BSE - Unforese	een Tank on Gridline 35		Closed	08/02/2011	08/12/2011	08/15/2011	Potential	ly 🗌
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction Compan	Gary Krutsch	Answered By	Turner Constru	uction Comr Kevir	n Chiu	
Co-Author: Balfour	Beatty Infrastructure, Inc	. Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference RF	I#T-0192.1				Treadwell and	Rollo Respons	e -		
The Analytical around the Un sent to BBII. T determined wa Analytical Rep the soil.	I Report for the sample tanderground Storage Tank The soil classification that as not listed in the respon- port. Please advise on the	aken from the soil (UST) has been t has been nse, nor the e classification of			Based on the excavated fror considered Cla of as Class II of handling proce	attached analyt n the tank remo ass II material a material using t edures.	ical results, the so oval activities is and should be dis he established so	bil posed il	
T-0193	BSE - CDSM B	uttress Connector Wall		Closed	07/07/2011	07/17/2011	07/08/2011	Potential	ly 🗌
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction Compan	Daphne Faulkner	Answered By	Adamson Ass	ociates, Inc Geor	ge Metzger	
Co-Author: Balfour	Beatty Infrastructure, Inc	. Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Sp	ecification Section 31 56	13			ARUP Respor	nse:			
DND is refining the CDSM Shoring Wall mix design based upon the initial results of the Zone 4 Test Section in order to meet the specified compressive strength and permeability. DND is currently planning on trying 2 new					Arup will revie columns and r situ strength b	w the strength t make a determi ased on these.	ests from the cor nation of accepta	nector ble in-	



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mixes / methods in the CDSM Buttress Connector Wall:

 Single Phase (down and up with grout only) - 275 kg/m3 cement treatment, 220% water/cement, specific gravity ~1.4
 a. Based on Japanese experience
 Two Phase (down with water, up with grout) - 265

kg/m3 cement treatment, 70% water/cement, specific gravity ~1.7 a. Based on US experience

DND is currently proceeding with the installation of the CDSM Buttress Connector Wall. Per BBII's July 5, 2011 meeting with the Engineer, BBII believes that this approach is acceptable for the CDSM Connector Wall and the CDSM Buttress Connector Wall will not have to be remixed in the event that it does not achieve the specified compressive strength of 90 psi at 28 days and 120 psi at 90 days. Please confirm.

T-0194 BSE - Unforesee	n Buried Obstruction	s at CDSM Connector Wall in Zone 4	Closed	07/12/2011 07/22/2011 07/19/2011 Potentially
From: Webcor Construction LP	Nhi Tran	To: Turner Construction Compan	Daphne Faulkner	Answered By: Transbay PMPC Roger Rothenburger
Co-Author: Balfour Beatty Infrastructure, Inc.	Ural Yal			
REQUEST:		SUGGESTION:		ANSWER: Accept Suggestion:
Reference Specification Section 31 56 1 sketches, and photo During the installation of the CDSM Con Zone 4, DND's drill rig hit unidentified bu at approx. 14' - 15' below the original gra Please see DND's attached sketch for fu exact location and composition of the ob to be determined but BBII's preliminary f	3, attached nector Wall at iried obstructions ade (El. 0 ~ -1). urther details. The sstructions are yet indings indicate			TJPA and its Representative agreed that the reasonable approach for removal of the obstructions as encountered was to mobilize an auger drill rig similar to the Viking drill rig used for the dewatering wells and removal of broken off piles along 181 Fremont sreet to drill out the area. A 36" diameter casing was used in this application. This meeting was held on Monday July 11, 2011 at approximately 12:30pm.
that they are timber piles that were neith original contract plans nor found during l extraction. Find attached the as-built dra the locations and the top elevations of th BBII extracted at that location. Please no elevations of the extracted piles range b 3.11 feet.	her shown on the buttress area pile awing that depicts the timber piles that tote that the top etween 2.40 to			The drill rig arrived on site mid Thursday morning July 14, 2011 (3 work days after the site meeting) and drilled until 7pm exploring the CDSM connector piles in the remaining rows. The material removed was some wood (volume less that a 5 gallon bucket - photos attached) and a number (approximately 15



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BBII has just t other rows of t these obstruct meeting on 07	been informed by DND Co the connector wall cannot tions are being removed p 7/11/2011, due to the pro>	onstruction that the t be installed while per the committee kimity of the			pieces)of chu size. At this time v this material	unks of unreinfor vithout more evic was inadvertant	of unreinforced concrete 3" to 10" in ut more evidence TJPA believes that inadvertantly left behind in the				
obstruction re CDSM connec until further no capable of ren at the commit Please direct	moval trench to the next t ctor wall installation has c btice. BBII is currently see noving these obstructions tee meeting. BBII on how to proceed.	wo rows. The urrently ceased eking drill rigs a also as discussed			backfilling of prepare a for this work or o but needs to process. BBI specifications and methods	the timber pile r mal claim as to delay. TJPA will have this filed a did perform the s and site agree for the way forv	emoval zone. BBI why TJPA should give it fair conside s a claim outside work in accordan ments made as to vard. The drill rig r	should pay for tration the RFI ce with means equiring			
					3 work days use their sub	to mobilize was contractor Malco	at the choice of Bloom-DND.	BI to			
T-0195	BSE - Unknown	Utility on Beale Street	West Side	Closed	07/13/2011	07/23/2011	07/14/2011	Potentia	ily		
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction Co	ompan Daphne Faulkner	Answered B	<b>y:</b> Transbay PMI	PC Roge	er Rothenbu	rger		
Co-Author: Balfour	Beatty Infrastructure, Inc.	Ural Yal									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:				
Reference atta BBI discovere the wheel was utility indicated the BSE contr direction) of th wall. On 7/12// is not active. T pre-trenching Please advise	ached photos and drawing ad an 8" utility line during t sh on the west side of Bea d in the attached pictures ract drawings. The alignm nis utility appears in confli 2011, BBI was able to co This utility will need to be operation, to avoid conflic e on the method for remove	g the installation of ale Street. The is not shown on ent (North to South ct with the CDSM nfirm that this utility removed during the ct with the CDSM. val of this utility line.			Remove the means and n equipment, n Representati work.	obstruction in ac nethods. Maintai naterials for rem ve of the method	cordance with the n records of labor oval. Inform TJPA ds chosen before	e best , starting			
T-0196	BSE - CDSM Sh	oring Wall Installation	Sequence Zone 4 North of A-Line	e Closed	07/20/2011	07/30/2011	07/26/2011	Potentia	ily		
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction Co	ompan Daphne Faulkner	Answered B	<b>y:</b> Adamson Ass	ociates, Inc Geor	ge Metzger			
Co-Author: Balfour	Beatty Infrastructure, Inc.	Ural Yal									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:				

Reference Sheet GT-2201 and Specification Section 31

ARUP Response:



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#### 56 13

See Note 1 on Sheet GT-2201. DND is concerned that if the row of buttress connector columns (A/26.5 - A/30) immediately adjacent to the shoring wall is installed prior to the shoring wall, the shoring wall will not meet verticality and tolerance specifications due to a difference in strength of the soil on one side and the CDSM on the other side. BBII believes that it will be possible to install the buttress connector columns after the shoring wall without hitting the shoring wall beams.

Is it acceptable to install the shoring wall prior to the immediately adjacent buttress connector columns?

This is acceptable. Contractor to exercise care to prevent the auger from hitting the soldier pile while achieving the column overlap shown on 9/GT-5101.

T-0197	BSE - Maximum Alle	owable Vibration		Closed	07/20/2011	07/30/2011	08/12/2011	Potentially
From: W	ebcor Construction LP	Nhi Tran	To: Turner Construction Compan D	aphne Faulkner	Answered By	Adamson Asso	ciates, Inc Geor	ge Metzger
Co-Author: Ba	alfour Beatty Infrastructure, Inc.	Ural Yal						
<ul> <li>REQUEST:</li> <li>Reference Specification Sections 31 09 13 and 01 35 65</li> <li>According to the Final FEIS/EIR, specified in the Specification 01 35 65 as the reference document, the Vibration Impact Criteria, which is the base criteria for the analysis, is shown in the table 5.21-8 (refer to BBI RFI for table).</li> <li>The vibration impact criteria used in the Final FEIS/EIR contradicts the Maximum Allowable Movement for the vibration (PPV) specified in Specification 31 09 13. In this specification section, the maximum allowable movement for vibration and the action trigger level is described in Table 1 (refer to BBI RFI for table).</li> <li>Please clarify where within the project site the vibration impact criteria for fragile structures are applicable (according to Specification 01 35 65), and where the maximum allowable movement for vibration 31 09 13).</li> </ul>			SUGGESTION:		ANSWER: Accept Suggestion: The table reportedly from the FEIS/EIR included in the RFI appears to be in error. This shall be addressed by others. The Action Trigger Level and Maximum Allowable peak particle velocities listed in Table 1 in specification section 31 09 13 are for separate, transient vibration events rather than continuous construction vibration. It is not known if the values shown in the FEIS/EIR table are intended for transient or continuous events. The Action Trigger Level and Maximum Allowable			
					The Action Tripeak particle v specification s around the site In drawing up account the ty construction a natural frequent those of the su	gger Level and N relocities listed in ection 31 09 13 e where vibratior these values we pes of plant likel nd the very low p ncy of the input	Maximum Allowa n Table 1 in apply to all struct n monitoring will have taken into ly to be employe probability that th vibrations will ap ings and utilities.	able ctures occur. d in ne proach



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The RFI question regarding the identification of "fragile structures" shall be addressed by others.

URS - Response by Alana Callagy 8/11/2011

The table in the FEIS/EIR included in the RFI is in error. The table cites the FTA as the source of the potential impact thresholds for vibration. However, the table used in the FEIS/EIR appears to have reversed the FTA's threshold levels. The RFI should cite Table 12-3 (page 12-13) of the FTA's Noise and Vibration Manual

 $(www.fta.dot.gov/documents/FTA\_Noise\_and\_Vibration\_Manual.pdf).$ 

FTA Table 12-3 is for potential structural or architectural building damage, which is generally a function of Peak Particle Velocity (PPV), not a timeaveraged level. These criteria should be applied to both transient and continuous construction events. Furthermore, the PPV value should be presented/evaluated as the vector sum of the PPV values in the three orthogonal coordinate directions (vertical, transverse, and longitudinal or x,y,z).

The FEIS/EIR called out "fragile structures" however when we reviewed the table (after first identifying that the table should be inverted to be consistent with the FTA's manual) it may be assumed that "fragile" would related to "non-engineered timber and masonry buildings." Based on FTA table 12-3, a little more detailed discussion is as follows:

Class I: buildings in steel or reinforced concrete, such as factories, retaining walls, bridges, steel towers, open channels, underground chambers and tunnels with and without concrete alignment, 0.5 PPV in/sec.

Class II: buildings with foundation walls and floors in concrete, walls in concrete or masonry, stone masonry retaining walls, underground chambers and tunnels with masonry alignments, conduits in loose material, 0.3 PPV in/sec.

Class III: buildings as mentioned above but with



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wooden ceilings and walls in masonry, 0.2 PPV in/sec.

Class IV: construction very sensitive to vibration; objects of historic interest , 0.12 PPV in/sec.

We are not sure where the maximum allowable value of 1 in/sec (presumably PPV) came from prior to it being put in the spec. This value seems too high relative to the FTA criteria presented in FTA Table 12-3 (which range from 0.12 to 0.5 in/sec PPV for various building categories). Ideally, the vibration values should be measured as close as possible to the edge of the building footprint, preferably in the internal envelop of the building, such as a basement or first floor slab floor within about a foot of the exterior wall nearest to the vibration generating activity. Locations away from the walls and on upper floors should be avoided since these areas could show elevated values due to building amplification. If interior areas are not available, an exterior location close to the edge of the building structure nearest to the construction activity can be used. In either case, care should be taken that the transducer is adequately coupled with the surface being measured and that PPV vector sum values are being reported.

be Category I with the exception of the following buildings that are to be considered Category III:

T-0197.1 BS	E - Maximum Allo	wable Vibration	Closed	07/20	20/2011	07/30/2011	09/12/2011	Potentially
From: Turner Construction	n Company	Gary Krutsch	To: Webcor/Obayashi Joint Ventu Nhi Tran	Ansv	wered By	":Turner Constru	ction Comr Kevi	in Chiu
Co-Author: Balfour Beatty Infra	structure, Inc.	Ural Yal						
REQUEST:			SUGGESTION:	ANS	WER:	Accept Sug	jestion:	
Refer to RFI #T-0197				Table the F Table Tran: docu versi be co Sect withi	e 5.21-8: Project ElS le 12-3: Co usit Noise ument # F ion. For th considered tion 31 09 in 25 ft of	Construction Vib S / EIR has a nu onstruction Vibra and Vibration Im TA-VA-90-1003- ne avoidance of I Action Trigger I 13 of the Specii the site bounda	ration Impact C mber of typos. ation Damage C pact Assessme 06) for the corre doubt, these val Levels as define fication. All the t y shall be consi	riteria in Refer to riteria in ant (FTA ected lues shall ad in puildings idered to



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177/181 Fremont Street
530 Howard
540 Howard
580 Howard
594 Howard
133 Second St
141 / 143 / 145 Second
163 Second
171 Second st.
90 Natoma
92 Natoma
83 Minna
46 Minna

In accordance with the recommendations at Section 12.2.1 of FTA(2006), we expect BBI to assess quantitatively the potential groundborne vibration impact from site operations on adjacent buildings using the formula:

(PPVequip)=(PPVref) x (25/D)\*\*1.5.

Where PPV ref is the reference peak particle velocity for a given item of equipment in Table 12-2 of FTA(2006) and D is the shortest distance between the operating location of the equipment and the building to be assessed.

Where the item of plant is not listed in either



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					FTA(2006) or C calibration mea to provide equi	Caltrans (2004) isurements at g valent (PPV ref	, BBI should carry ground surface in ') values.	/ out order	
					BBI should carry out vibration monitoring inside buildings when (PPV equip) is calculated to lie within 90% of the values given in Table 12-3: Construction Vibration Damage Criteria in Transit Noise and Vibration Impact Assessment in FTA-VA-90-1003-06. The Action Trigger and Maximum Allowable movement level for vibration given in Table 1 of Section 31 09 13 is for Category I buildings only.				
T-0197 2	BSF - Maximum All	owable Vibration - VOID		Closed	09/12/2011	09/22/2011		Potential	v
From: Webcor Const	ruction LP	Nhi Tran	To: Turner Construction Compar	n Gary Krutsch	Answered By:	•••			
Co-Author: Balfour Beatty	Infrastructure, Inc.	Ural Yal							
REQUEST: Reference RFI #T-0	197, Specification Section	ion 01 35 65 &	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
BBII recognizes and BBII will refer to FTA However, BBII belie information that is in as between the two requests the followin	agrees Table 5.12-8 is A Table 12-3 as the corr ves the TJPA's respons conflict with the specifi separate responses pro og clarifications and corr	in error, and rect table. se provides ications as well ovided. BBII firmations:							
(BBI RFI 147) to the indicates PPV value based on the surrou verify this interpretal also indicated in AR construction events' 2. As also stated in	attached map. The atta s for continuous constru- nding buildings. Please ion. Please note that th UP's response, applies	ached map uction events, review and his table, as to "continuous 's interpretation							
or Section 31 09 13 section apply to "tra contrary to URS' res section are applicab	is that the limits providensient construction even ponse, the values provi le to transient construct	ea in this nts". Therefore, ided in this tion events.							



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Numb	per	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
	In addition, BBII will a 31 09 13 for transient around the site. Table for vibration (PPV) is Allowable Movement second.	apply Table 1 in Spe construction events a 1 indicates the Act 1/2 inch per second for vibration (PPV) i	cification Section to all structures ion Trigger Level and Maximum s 1 inch per							
	Please confirm the vi values indicated above transient construction	bration Peak Particle /e are acceptable fo events.	e Velocity (PPV) r continuous and							
T-019	8	BSE - Demolition	Drawings in South-W	est Corner of Zone 1	Closed	07/28/2011	08/08/2011	08/25/2011	Potential	ly 🗌
	From: Webcor/Obaya	shi Joint Venture	Nhi Tran	To: Turner Construction	Compan Gary Krutsch	Answered By	Turner Constru	ction Comr Kevi	n Chiu	
Co-A	uthor: Balfour Beatty	nfrastructure, Inc.	Ural Yal							
	REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Reference Specificati	on Section 02 41 01	I			See attached 8/25/2011.	Transmittal 140-	-02181, sent to V	V/O on	
	BBII is requesting a c drawings issued to EI 1.	opy of the added so BI, for the South-We	ope demolition est corner of Zone							
T-019	9	BSE - Pile Extrac	tion Method For Grid L	ine 35.2	Closed	08/01/2011	08/11/2011	08/15/2011	Potential	ly 🗌
	From: Webcor Constr	uction LP	Nhi Tran	To: Turner Construction	Compan Gary Krutsch	Answered By	Adamson Asso	ciates, Inc Geo	ge Metzger	
Co-A	uthor: Balfour Beatty I	nfrastructure, Inc.	Ural Yal							
	REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
	Reference RFI#T-018	38.2				ARUP Respor	nse:			
	After exposing piles a BBII intends on extra described in RFI#T-0 backfilling any voids method is acceptable	at grid line 35.2 east cting these piles as 188.2 (BBI 0139.2). with sand. Please co	of Beale Street, per the method This involves onfirm this			Arup did not re response to R procedure for follow the proo T-0146.4 with is acceptable.	espond to RFI T FI T-0188.1, we removing the pil cedure described the exception th	-0188.2. As note recommend tha es east of Beale d in our response at backfilling wit	d in our t the Street to RFI h sand	


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### 30100 - Transbay Transit Center Project

Closed

-0200 BSE - Unforeseen Buried Obstructions - Zone 4 A Line (Gridline 27-34)	Closed				Impuor	Proceed
		08/02/2011	08/12/2011	08/12/2011	Potential	lly
From: Webcor Construction LP Nhi Tran To: Turner Construction Com	an Gary Krutsch	Answered By	:Turner Constru	uction Comr Jack	Adams	
Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal						
REQUEST: SUGGESTION:		ANSWER:	Accept Sug	gestion:		
REQUEST:       SUGGESTION:         Reference Specification Section 31 56 13, attached photos, and sketch       On Saturday, July 30th 2011, DND's CDSM drill rig encountered unidentified buried obstructions during the installation of the CDSM Shoring wall panel identified by the pile numbers 285-286 at Zone 4 "A" line between Grid "27 & 28". The newly found obstructions are deeper than the previously excavated timber piles.         DND construction initially attempted to drill through the buried obstructions without success. The drill rig was subsequently moved to further east to drill the next available panel. Between 10:30 am and 3:30 pm, DND made eight drilling attempts along the "A" line between pile numbers # 285 and # 300. All eight drill attempts failed due to the similar obstructions encountered within the 13' - 17' depth range below grade. Consequently, the CDSM shoring wall installation along grid line "A" at Zone 4 had to be suspended. DND is able to provide a drill rig to drill out these obstructions and currently this rig is scheduled to arrive Tuesday morning, August 2, 2011.         These obstructions constitute a differing site condition in accordance with Article 3.05 of Section 00 07 00 of the Specifications.         Please provide confirmation and/or direction regarding the following:		ANSWER: Per Contract Method Para Obstructions, obstructions t alignment of t shall be that r the path of the This area was have been cle from pile remu- area in questi 1000psi and 2 condition. "Unforeseen 00 (General C (Unforeseen of Article 3.05.C C. Differing S 1. All that is from the Cont Documents; 2. All that cu	Accept Sug Spec. 31-56-13 3.2 Pretrenchin Contractor is to hat might be en- he walls. The de equired to remo e shoring wall." is to be Pretrench eared. The Spec boal with 300psi on had CLSM in 600psi which m Conditions' are conditions) Articlor Conditions Articlor changed Con states, ite Conditions sl indicated in or tr ract Documents	gestion: Shoring wall by ( g and removal o " remove any countered along epth and width of ve the obstruction and per Spec and calls for fill the v CLSM, However istalled of between any be causing the covered in Section e 3.05.A.2 and 3 ditions).	CDSM f the trench ns from d should roids r; the en sis on 00 07 6.05.A.3	
<ul> <li>BBII is to proceed with drilling out these obstructions on 8/2/2011, so CDSM installation in this area can continue.</li> <li>These obstructions constitute a differing site condition.</li> </ul>		3. Condition characteristic described in t Documents.	ally the same as he Contract Doc	those indicated cuments or Reference	or ence	

To: Turner Construction Compan Gary Krutsch

T-0201	BSE - Buttress Shift To South				
From: Webco	r Construction LP	Nhi Tran			
Co-Author: Dolfour	Death Infrastructura Inc				

Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal

#### REQUEST:

Reference Sheet GT-2201, RFI#T-0151, and attached sketch

#### SUGGESTION:

 08/02/2011
 08/12/2011
 08/08/2011
 Potentially

 Answered By:Adamson Associates, Inc. George Metzger

ANSWER: Accept Suggestion: ARUP Response:



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Per respons the east as discussions Team Coorr for the Buttr sketch. Plea	e to RFI T-0151, the Buttre long as it doesn't shift to the with Arup in last week's TC dination Meeting (7/27/2011 ress to shift to the south per ase confirm.	ess can expand to e south. Per G03 BSE Design 1), it is acceptable r the attached			The shift show	wn on the sketc	n is acceptable.		
T-0202	BSE - Pile Extra	action Method For Gric	l Line 33.5	Closed	08/04/2011	08/14/2011	08/12/2011	Potentia	lly
From: Webc	or Construction LP	Nhi Tran	To: Turner Const	ruction Compan Gary Krutsch	Answered By	:Turner Constr	uction Comr Jack	Adams	
Co-Author: Balfou	ur Beatty Infrastructure, Inc.	. Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accent Sug	destion:		
Reference F	RFI#T-0146.2				Contractor ma	av wish to consi	der placing the st	eel	
After exposi BBII intends	ing 5 piles at gridline 33.5 w s on extracting these piles a	vest of Beale Street, as per the accepted			sheet prior to Beale Street t excavation.	excavating to re to keep it from s	loughing into the	under	
method des	cribed in RFI # 1-0146 2,				Extract the wo	ood piles with vi	bratory hammer.	with the	
"6. BBII will with the san BBII will per the barrow	extract the wood piles with ne stroking procedure without form dewatering enough to to the pile	vibratory hammer, out steel casing. be able to connect			same stroking perform dewa hammer to the	procedure with tering enough to pile.	nout steel casing. o be able to conn	BBII will ect the	
7. BBII will t Central Con 8. BBII will t	packfill the void with low structure Mix FOA100CX (RFI packfill the piles.	ength material #T-0138.1).			Option: Backf material Centr 0138.1).	ill the void with ral Concrete Mi	CLSM low streng x FOA100CX (RF	th II #T-	
Answer: Per Brian D Allowable w	ykes, this work is authorize ork hours will be establishe	d to proceed. d after 199			Option: Back minimum leng The tremie sh possible prior	fill the pile voids of 20ft attached all be inserted a to pouring the o	s using a tremie p d to the concrete as far into the pile concrete, and the	bucket. hole as	
Fremont pile	e extraction begins."				concrete shall	l be placed usin	g normal tremie		
This involve attached dra niles to be e	s backfilling any voids with awing indicates the location	1 sack sand. The and quantity of bat this method is			into the void a eliminate void	BIT will make ef as possible, but I completely.''(R	forts to pour the r BBII is not respon FI 146.4)	naterial nsible to	
acceptable. Also, please	e advise if any work hour re	strictions apply.			Recommends piles follow the response to R from RFI 188. instead of the RFI#T-0146.4	that the proceed e procedure dea FI T-0146.4. C 2. Sand can us low strength m	dure for removing scribed in Arup's optional is to use i ed for back filling aterial described	these method s in	



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T-0203	BSE - Clearance	From Verticals For CS	SL Tubes	Closed	08/04/2011	08/14/2011	08/09/2011	Potential	ly 🗌
From: Webcor Con	struction LP	Nhi Tran	To: Turner Construction C	Compan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geo	orge Metzger	
Co-Author: Balfour Beatt	ty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Sheet G 29, and attached p	GT-5202, Specification hoto	n Section 31 63			ARUP Respon The longitudir shall be shifte	nse: hal bars on each d so that the cle	side of each CL	S tube	
In the Phase 1 DF0 Harris-Salinas Reb ARUP suggested n from the CSL tubes concrete cover alou confirm.	OW Buttress Rebar C par's yard in Livermore noving the adjacent v s to allow for approxir ng the entire length o	DC Meeting at e on 8/01/2011, rertical bars away nately 4" of f the shaft. Please			given bar and maximum. Th shifted is 8.	the CSL tube is e total number o	3" minimum, 4 of bars which wil	l be	
T-0204	BSE - Tie Backs	Along 535 Mission Str	eet - Vacant Lot	Closed	08/04/2011	08/14/2011	08/10/2011	Potential	ly 🗌
Co-Author: Balfour Beat			IO: Turner Construction C	ompan Gary Krutsch	Answered by	Gillurner Constru	Jotion Comp Jaci	k Adams	
PEOLIEST.	ty minastructure, me.		SUGGESTION			Accort Sug	aostion:		
Reference GT-210	2 & Detail 8 - GT-510 the tie backs in the a	3 rea of the vacant	SUGGESTION.		BBII is to cont 8 GT-5103). S and sever a ti	tinue plans and Subsequent to the back in Minna	specs (Ref: Dwg his RFI BBII did I Street trench fro	g. Detail locate	
lot on Minna St. de Drawing GT-5103	escribed in the Detail &	8 on Contract			535 Mission S	St. Project .			
feet along the Pre- backs. This was an 15'-0" +/- 1'-0" depi extend into the Pre forward. Please ad	Trench and was unab additional foot more th. BBII believes the t P-Trench limits and pla lvise if there is information	than the specified than the specified tie backs do not ans to move ation to the			BBII was direct sheetpile show sufficiently to Drill/Wall insta	cted to be caution ring to ensure the prevent interferent allation.	ous when installi le Tie Backs are ence with CDSM	ng cut back	
					2011-08-09 G ARUP Respo No additional to provide ans	eorge Metzger nse: information is a swer to this RFI.	vailable. Turner	or PMPC	
T-0205	BSE - Testing W	eld On Hoops		Closed	08/05/2011	08/15/2011	08/09/2011	Potential	ly
From: Webcor Cons	struction LP	Nhi Tran	To: Turner Construction C	Compan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geo	orge Metzger	
Co-Author: Balfour Beatt REQUEST:	ty Infrastructure, Inc.	Ural Yal	SUGGESTION:		ANSWER:	Accept Sug	aestion:		



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The 23 degree CSL spacing is required. The added "smart hoop" CSL alignment bars are acceptable.

#### 30100 - Transbay Transit Center Project

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REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:	
Co-Author: Balfou	r Beatty Infrastructure, Inc.	Ural Yal						
From: Webco	BSE - Smart Hoop	Nhi Tran	To: Turner Construction C	Ciosea compan Gary Krutsch	08/05/2011 Answered By	U8/15/2011 Adamson Asso:	ua/ug/2011 ociates, Inc Geo	rge Metzger
		5 001 T 1		<b>a</b> i i	00/05/00	00115/00/	00/00/00/	<b>.</b>
It was agree (8/1/2011) th Standard Sp	d upon in the DFOW meeting at it is acceptable to test the ecifications. Please confirm.	this week lots per Caltrans						
As of this wr Welding whi Rebar is usir specification Standard Sp of a lot of on testing. If thr requirements samples con samples out (4) fail, the w	ting, the AWS does not cove ch is the type of welding that ng for the hoops. Caltrans has for Resistance Welding. Per ecifications Section 52, four ( e hundred fifty (150) are take ee (3) or more samples comp s, the whole lot is accepted. If nply, one (1) additional test of of the same lot is allowed. If hole lot is rejected.	r Resistance Harris-Salinas s a written Caltrans (4) samples out n to the lab for bly with the f only two (2) f four (4) any of the four						
Per AWS D1 when approv qualification ensure that v application w	.4.2, "Other welding process red by the Engineer, provided test requirements not covered velds are satisfactory for the vill be obtained."	es may be used I that any special d here are met to intended						
Per SS03.20 Code for con	.01.3.3.B.4, "Inspect welding npliance with AWS D1.4."	as required by						
Reference S 63 29	heet GT-5202 and Specificat	ion Section 31			This is accept	able.		

Reference Sheet GT-5202, Specification Section 31 63 29, attached photo and sketch

Drawing GT-5202 shows four (4ea) 4" CSL tubes equally spaced around the perimeter of the shaft tied to reinforced steel.

Approved rebar shop drawing shows a square spider



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designed to serve two purposes.
1. To allow the tremie pipe to pass through.
2. To keep the CSL tubes equally spaced around the
perimeter per Drawing GT-5202.
In subsequent discussions the engineer suggested
orientating the CSL tubes at a 23 degree angle from the
longitudinal center of pile. In the Phase 1 DFOW Buttress
Rebar QC Meeting on 8/1/2011 Harris-Salinas Rebar
suggested using smart noops to keep the CSL tubes in
place and symmetrical around the perimeter at 25 degrees
tube all square spice rougestion was well received by
meeting attendees. Please confirm that the 23 degree
CSL spacing is required. If so, please advise if the added
"smart hoop" CSL alignment bars are acceptable?

T-0207	BSE - Unknown Fib	er Optic on Fremon	t Street	Closed	08/09/2011	08/19/2011	08/12/2011	Potentially
From:	Webcor Construction LP	Nhi Tran	To: Turner Construction	on Compan Gary Krutsch	Answered By	:Turner Constru	uction Comp Gary	y Krutsch
Co-Author:	Balfour Beatty Infrastructure, Inc.	Ural Yal						
REQU	JEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:	
PG&E struct Street work. walk-t that a de-en fiber c optic o CDSM	Reference Specification Section 02 41 01 PG&E was scheduled to have all the utilities and structures confirmed dead on the East side of Fremont Street 8/07/2011 as part of the phase 1 PG&E relocation work. On 8/08/2011, W/O and PG&E conducted a USAR walk-through on Fremont Street to sign off and confirm that all PG&E utilities and structures have been confirmed de-energized and abandoned. PG&E discovered a live fiber optic cable between vaults 1675-1670. This fiber optic cable is in conflict with and causing delays to the CDSM wall and Buttress work commencement.							
Pleas energ	e provide a date this fiber will be confi ized.	rmed de-						
T-0208	BSE - Long Term S	eismic Loading		Closed	08/09/2011	08/19/2011	08/12/2011	Potentially

To: Turner Construction Compan Gary Krutsch

Nhi Tran

Answered By: Adamson Associates, Inc George Metzger



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Co-Author: Balfour E	Beatty Infrastructure, Inc.	Ural Yal								
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Reference She 55 00	eet GT-1110 and Specificat	ion Section 31			We refer to Comments and Corrections provided by DBI to TJPA in a document dated July 27, 2011 at item G 23.					
Note 7 on she Loads shall be conversation a Coordination n applies only to buttress case.	et GT-1110 states that "Set e considered to be long term at the 8/03/11 TG03 Design neeting, BBII understands to the lower level struts at the Please confirm.	smic Increment n loading." Per Team hat this note e 301 Mission		With reference to Drawing GT-1110 we clarify that Note 7 applies strictly to the incremental strut loads Table 7 (301 Mission buttress case shaking analysis and consequently apply to calculations for the lowes level of struts and walings between Gridlines 26 and 30. The incremental strut loads given in Tables 5, 6 and 8 can be considered as transient, rather than lo term, loads on the bracing system.						
T-0209	BSE - Abutment E	Bearing On CDSM Wall		Closed	08/11/2011	08/21/2011	08/19/2011	Potentia	lly	
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction Compan	Gary Krutsch	Answered By	URS Corporati	on Davi	d Fyfe		
Co-Author: Balfour E	Beatty Infrastructure, Inc.	Ural Yal								
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Reference Spe	ecification 01 53 13				Yes, statemen	t still applies.				
During previou has been expr should not bea bridges spec s that "abutmen CDSM shoring applies.	is discussions with URS, A essed that the temporary b ar on the CDSM shoring wa section 01 53 13, however, ts for bridges shall be supp g wall." Please advise if this	RUP, and DPW it ridge abutments II. The temporary specifically states orted by the statement still								
T-0209.1	BSE - Abutment E	Bearing On CDSM Wall		Closed	09/02/2011	09/12/2011	09/09/2011	Potentia	lly	
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction Compan	Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger		
Co-Author: Balfour E	Beatty Infrastructure, Inc.	Ural Yal								
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Reference RF and attached s	I#T-0209, Specification Sec sheets	ction 01 53 13,			ARUP Respor	ise:				
Included with t supported abu as currently de	his RFI are loading condition tments. Please confirm that asigned can accommodate	ons for CDSM t the shoring wall the loading.			Contractor to p adequacy of th the bridges.	provide calculati ne shoring wall t	ons demonstration support the load	ng the ids from		



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T-0209.2	BSE - Abutme	nt Bearing On CDSM Wa	ll - Follow-Up	Closed	09/13/2011	09/23/2011	Ired       Answered       Impac         /2011       09/16/2011       Potentii         on Associates, Inc George Metzge         pt Suggestion:	Potential	iy 🗌
From: Webcor C	Construction LP	Nhi Tran	To: Turner Construction Co	mpan Gary Krutsch	Answered By	Adamson Asso		rge Metzger	
Co-Author: Balfour Be	eatty Infrastructure, Ind	c. Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference RFI # and attached sh As requested by placed on each proposed tempo both the bracing live loads of the BBII requests co EOR that these assumed vertica	nber Subject 20.2 BSE - Abutment Bearing on CDSM var From: Webcor Construction LP Min Tran F-author: Balfour Beatty Infrastructure, Inc. Ural Yal FGUEST: Reference RFI #T-0209.2, Specification Section 01 53 13, and attached sheets As requested by ARUP, please see the attached loads include both the bracing self weight and the combined dead and live loads of the temporary bridge abutment. The loads include both the bracing self weight and the combined dead and live loads of the temporary bridge. BII requests confirmation from the CDSM shoring wall COR that these imposed loads do not exceed the assumed vertical loads used during original design analysis. 20.3 BSE - Abutment Bearing On CDSM MM From: Webcor Construction LP Min Tran Fauthor: Balfour Beatty Infrastructure, Inc: Ural Yal Freence RFI #T-0209.2, Specification Section 01 53 13, and tatched sheets Reference RFI #T-0209.2, Specification Section 01 53 13, and tatched sheets Strageted by ARUP, please see the attached loads for both the bracing self weight and the combined dead and live loads to the temporary bridge abutment. The loads include both the bracing self weight and the combined dead and live loads of the temporary bridge abutment. The loads include sheets Reference RFI #T-0209.2, Specification Section 01 53 13, and tatched sheets Strageted by ARUP, please see the attached loads for both the bracing self weight and the combined dead and live loads of the temporary bridge abutment. The loads include both the bracing self weight and the combined dead and live loads of the temporary bridge abutment. The loads include both the bracing self weight and the combined dead and live loads of the temporary bridge abutment. The loads include both the bracing self weight and the combined dead and live loads of the temporary bridge abutment. The loads include both the bracing self weight and the combined dead and live loads of the temporary bridge abutment and be combined dead and live loads of the temporary bridge abutment and be breads the combin				ARUP Response: The results of the analysis repo in the table "SUMMARY OF LOADS ON CDSM SOLDIER PILES AT BRIDGE ABUTMENTS" indicates that, for a number of locations, the load p soldier pile is too great and that the pile spacing w need to decrease from 4'-0" o.c. to 2'-0" o.c. to red the load per pile. Subsequent analysis by the Contractor shall demonstrate the structural adequa of the pile shape and the adequacy of the pile embedment.			reported M Dad per ng will o reduce lequacy	
T-0209.3 From: Webcor C	BSE - Abutmer	nt Bearing On CDSM Wa Nhi Tran	II - Follow-Up To: Turner Construction Co	<b>Closed</b> mpan Gary Krutsch	09/13/2011 Answered By	<b>09/23/2011</b> Adamson Asso	<b>09/28/2011</b> ociates, Inc. Geo	Potential	ly
Co-Author: Balfour Be	eatty Infrastructure. Inc	c. Ural Yal			/ 110110104 25			ige weizger	
REQUEST: Reference RFI # and attached sh As requested by placed on each proposed tempo both the bracing live loads of the BBII requests co EOR that these assumed vertica analysis.	#T-0209.2, Specification heets y ARUP, please see the individual CDSM soldi orary bridge abutment. g self weight and the cr e temporary bridges. confirmation from the C e imposed loads do not al loads used during or	on Section 01 53 13, e attached loads er beam beneath the The loads include ombined dead and DSM shoring wall exceed the iginal design	SUGGESTION:		ANSWER: ARUP Respo 1. The CDSM point loads as imposed load recommend th provided for e the all the affe wall. A vertical be used to ca spreader beau given. 2. The allowal soldier piles o an excavation taken to fall lin depth.	Accept Sug nse: wall cannot acc implied by the s from the cross hat a spreader b ach bridge abut ected W21x201 I spring constan culate the pile r m arrangement ble loads from th n the basis of 1 of 10 feet below hearly to 60 kips	gestion: gestion: gestion: gestion: gestion: gestion: gestion: gestion: submitted tables. We earn arrangeme ment and is con soldier piles in the of 1150 kips/in eactions under sfor the range of the bridge deck for above is 90 kips w grade and can spile at 60 ft elemeters.	arying of nt is nected to ne CDSM ch can such a oads or the s/pile at be vation	
					3. It follows fr wall to carry th condition, will may require d	om 2 above that ne maximum loa reduce as exca isassembly of th	the ability of the ad, the construct vation proceeds ne construction of	e CDSM ion crane . This crane	



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					into smaller or at the later sta 4. The load pa abutment into across 2 interf ground. The s interface can absence of an compression of to 10 feet belo that soil mix fa steel soldier p be very low in soldier piles w	omponents in or liges of excavation the ground, is in faces: steel/soil hear transfer ac- or be estimated or tension. If the bw grade at the balls away easily ile, the bond/inte deed and the all ill need to be re	der to remove it f on. e bridge deck at th n direct shear trar mix and soil mix/ ross the steel/soi with accuracy, ir dier pile test in early excavation bridge abutment, from the face of t erface shear is lik owable capacity evaluated.	rom site nsfer in-situ I mix I mix t he s, down show he W21 ely to of the	
T-0209.4	4 BSE - Abutment Be	aring On CDSM Wall - Fo	llow-Up	Closed	01/09/2012	01/19/2012	01/16/2012	Potential	ly 🗌
Fr	rom: Webcor Construction LP	Kirk Nielsen	To: Turner Construction	n Compan Gary Krutsch	Answered By	Arup	Kevir	Clinch	
Co-Aut	hor:								
R	REQUEST: Reference T-0209.3, Specification Section	01 53 13	SUGGESTION:		ANSWER: Arup cannot p	Accept Sugg	gestion:	nout	
C p n tł	Contrary to RFI response T-0209.3, subset ile loading CR T-025 during which there w novement please confirm the revised direc he bridge abutment atop the CDSM wall at ursuant to specification section 01 53 13.1	quent to the test as little to no tion to install ; all streets I.2.A.			on the soldier	piles and the re	vised calculations	5.	
T-0210	BSE - Pile #498 Top	Of Pile Elevation Issue		Closed	08/16/2011	08/26/2011	08/19/2011	Potential	ly 🗌
Fr	om: Webcor Construction LP	Nhi Tran	To: Turner Construction	n Compan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Aut	hor: Balfour Beatty Infrastructure, Inc.	Ural Yal							
R	EQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
R a	Reference W/O NOTICE0010 (attached), S nd Specification Section 31 56 13	Sheet GT-5101,			ARUP Respor	nse:			
P B	Please address the following information re BII's subcontractor DND:	quest from			i ne acceptabl (shown on 16/ this using the	le variation in bo GT-5101) is +/- top of pile eleva	ntom of pile elevant 1'-6". In order to tion as the meas	uion verify ure, the	



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"T wi to the Fc hig 1/2	the specifications due to regard to the ver the plan drawings of a allowable tolerand or example, beam 4 gh. The beam was 2" long. It was set t	o not specify an all tical position of the (GT-5101, Note 16 ce for the beam tip 98 (BBII ID #287) measured prior to o a top elevation o	lowable tolerance e beam tip relative s). Please clarify elevation. was set slightly setting to be 97'-5 f approximately			Contractor sha piles.	all provide Turne	er with the length	of the	
+1 80 (J/	6'-11" which calcul 0.63'. Specified tip e /27-33.5)."	ates a tip elevatior elevation is -81-0" i	n of approximately - in this wall section							
T-0211		Easement Inform	mation		Closed	08/11/2011	08/21/2011	08/23/2011	Potentia	ly
Fro	om: Webcor Constr	uction LP	Nhi Tran	To: Turner Construction	n Compan Gary Krutsch	Answered By	Turner Constru	uction Comr Jack	Adams	
Co-Auth	ior:									
RI	EQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Re 1 : da W W Tu - 5 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7	eference Email "Fer and X1-1" from Tur ocuments /O received the end all Radius R2-1 and urner on 8/10/2011, \$192 OR 151 easen Parcel F BNDY-ALT CASFRA_2007 003 Eminent Domain Fer he information conta or and/or does not ocuments. Please p	ncing Plan at CDS ner on 8/10/2011 a closed email "Fend d X1-1" and it's atta listed below: nent.pdf "A_AB3721_15A_F 69409.pdf encing Plan .pdf ained in the above exist in the current provide a direction	M Wall Radius R2- and attached sing Plan at CDSM achments from Rev 1.pdf documents differs t contract on what W/O and			The informatio provided for in Subcontractors hour access to the CDSM wal this access.	n contained in t formation. WO s are to ensure their easemen I and protection	the above docume and our Trade the 540 Howard H t. The current loc fencing will acco	ents is nas 24 ation of modate	
ou inf the	ir Trade Subcontrac formation. In additi e TJPA expects We	ctors are to do with on please indicate ebcor Obayashi to	this easement what requirements now comply with.							

T-0212

\_P Nhi Tran

BSE - Unforeseen Timber Piles At Grid Line 33.5 J

 3.5 J
 Closed

 To: Turner Construction Compan Gary Krutsch

08/15/2011 08/25/2011 08/16/2011 Potentially

Answered By: Turner Construction Comr Kevin Chiu



attached BBII drawings in lieu of the 1' thick concrete slab

Webcor/Obayashi Joint Venture

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is acceptable.

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Co-Author: Balfo	ur Beatty Infrastructure, Inc.	Ural Yal							
REQUEST	:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference and sketch BBII expose Street in Zo	RFI#T-0148.1, Sheet D-221: ed 24 piles at gridline 33.5 J one 4. as shown in the attact	3, attached photos close to Beale hed photographs.			RFIs shall be the Contract I request (CR) by the Genera construction r	used for interpre Documents (01 / is not a Contrac al Conditions. Q neans, methods	etation or clarifica (0 40) and a cha t Document as d uestions related t techniques, sec	ation of nge efined to quences.	
However, d	rawing D-2213 indicates five	e piles inside the			procedures a	nd non Contract	Documents will	not be	
CDSM wall the method	approved in RFI # T-0148 1	ct these piles using I. Please confirm			replied to by t	he IJPA and wi	ll be rejected (01	10 40).	
that it is ac work as CR previously.	ceptable to continue tracking -T-010, as was practiced in	g this unforeseen this area			Refer to the p for further dire	rocedures of pre ection.	eviously issued C	R T-010	
<b>T-0213</b> From: Web	BSE - Pile Extra	action Method For Conc Nhi Tran	rete Piles Between GL 5-10 at	Natoma St Closed	08/15/2011 Answered By	08/25/2011	08/19/2011	Potentia rae Metzaer	lly
Co-Author: Balfo	ur Beatty Infrastructure Inc.	Ural Yal		Compan Gary Natisch	,			rge metzger	
PEOLIEST			SUCCESTION			Accort Sug	noction.		
Reference and attache	RFI #T-0188.1, Specificatior ed sketch	n Section 02 41 19,	SUGGESTION.		This is accept 16" square or greater from t	able for concret less and which	e piles which are are located 16 ft	e 16'' x or uilding	
BBII intend located bet using the m extracting p casing and sand. Attac piles obstru is acceptab	s on extracting the existing of ween gridlines 5 and 10 on t rethod approved in RFI#T-0 viles using the vibratory ham backfilling the void with stru hed is a drawing indicating t roting the CDSM wall. Please le.	concrete piles the south side, 188.1. This involves mer without a steel ictural pre-trench the locations of the e confirm that this			groater nom t			unung.	
T-0214	BSE - Instrume	ntation Protection Slab	Zone 4	Closed	08/16/2011	08/26/2011	08/23/2011	Potentia	lly
From: Webo	cor Construction LP	Nhi Tran	To: Turner Construction	Compan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geo	rge Metzger	-
Co-Author: Balfo	ur Beatty Infrastructure, Inc.	Ural Yal		. ,	-		,	C 01	
REQUEST			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference BBI sketch	Sheet GT-5102 and attache	d shop drawing and			ARUP Respo	nse:	-		
BBII is prop	oosing to pour a 2' thick instr	rument slab per the			Pouring a 2' tl the 1' thick co	nick instrument   ncrete slab sho	protection slab in wn on Drawing G	i lieu of T-5102	



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ANSWER:

ARUP Response:

Accept Suggestion:

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shown on Dra of the Buttres Approved 60 Item #TZ101 protection sla	awing GT-5102 to match the ss Temporary Work Platforn 00 psi Central Mix #960PC3 0-033001A10) will be used ab. Please confirm that this	e overall thickness n Concrete Cap. 3Z3 (Submittal for the instrument is acceptable.			Central Mix # instrument pr The reinforcir is acceptable soldier piles a Block-outs sh instruments a coordinate loo The protectio attached sket	960PC3Z3 is ac otection slab. Ing steel configur The bars may and the instrume tall be placed in ts noted on GT-4 cations of block- n slab shall be e tch.	ation shown on S be shifted to clea int locations. the slab for the 5102. Contractor outs with Arup fie extended as noted	in the section A r the to eld staff. d on the	
T-0215	BSE - Diagonally	Cut Unforeseen Piles	at Grid Line 33.5 J	Closed	08/17/2011	08/27/2011	08/17/2011	Potentia	ly
From: Webco	or Construction LP	Nhi Tran	To: Turner Construction Co	ompan Gary Krutsch	Answered B	y:Turner Constr	uction Comr Jack	Adams	
Co-Author: Balfour	Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference SI 19, and attac BBII has extr Three (3) pile However, one diagonally cu 3). Another p broken off un concerns tha and will be ar installation. F	heet GT-2103, Specification shed photos acted four (4) unforeseen p es had an average length of e (1) of these piles appeare it out of it at the bottom (see ile was only 23' long and ap iderground (see attached Pl t lengths of pile may still rer n obstruction to the CDSM s Please advise on how to pro	iles at GL 33.5 J. 45' long. d to have 20' e attached Photo opeared to have noto 1). BBII has main in ground shoring wall ceed.			Refer to spec "The Contrac entire alignme walls and rem encountered depth and wid remove the o wall."	ification 31 56 1 tor shall constru- ent of the shorin hove any obstrue along the alignm dth of the trench bstructions from	3, 3.2, A, which s ct a trench along g wall and the cu ctions that might ent of the walls. shall be that req the path of the s	states, the t-off be The uired to horing	
T-0215.1	BSE - Diagonally	Cut Unforeseen Piles	at GL 33.5 J	Closed	08/23/2011	09/02/2011	08/30/2011	Potentia	ly 🗌
From: Webco	or Construction LP	Nhi Tran	To: Turner Construction Co	ompan Gary Krutsch	Answered B	y:Adamson Ass	ociates, Inc Geo	rge Metzger	
Co-Author: Balfour	Beatty Infrastructure, Inc.	Ural Yal							

#### **REQUEST:**

Reference RFI #T-0215 and RFI #T-0177, Sheet GT-2103 and Specification Section 02 41 19

SUGGESTION:



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As t tren prop (BB this pile insta Plea	he top of the brok ching to remove to boses following the II 0126) to extract to be the standard presents an obstr allation and needs ase confirm.	en pile is 33' below g his pile is not practica e procedure approved this pile. In the future d procedure when a b uction to the CDSM s to be extracted.	round, further al. BBII d by RFI T-0177 e, BBII proposes proken or lost Shoring Wall			Arup takes no described in R	exception to the FI T-0177 for th	a use of the metho	od	
T-0216		BSE - Revised But	tress Shop Drawing	s For Record Only	Closed	08/18/2011	08/28/2011	08/19/2011	Potentia	lly
Fron	n: Webcor Constru	uction LP	Nhi Tran	To: Turner Construction	Compan Gary Krutsch	Answered By:	Adamson Asso	ciates, Inc Georg	ge Metzger	
Co-Autho	r: Balfour Beatty I	nfrastructure, Inc.	Ural Yal							
REC	QUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Refe RFI	erence attached re #T-0184, T-0203,	evised CIDH Rebar S T-0205 and T-0206	Shop Drawings,			Arup takes no with the RFI.	exception to the	shop drawings in	ncluded	
Per on 8 cont via 1 app 0320 Atta all th RFIs refle	discussions at the 3/17/2011, it was a firm the finalized b RFI because the s roved in a previou 001A05. ched are the revis he changes that w s. Please confirm acts all changes m	e TG03 BSE Design agreed by Adamson a puttress rebar cage si shop drawings have a s submittal TG0300- sed shop drawings th vere agreed upon in t that these shop draw hade.	Team meeting and ARUP to hop drawings already been 320 / TA1020- at incorporate he referenced vings accurately			Note that revie the design con compliance wit documents. Co and dimension correlated at th between the fit documents ale processes and construction; c other trades; a satisfactory ma contractor; s d documents and requirements of does not increis services and c of any intent to	w is only for ge- iccept of the proj- th the informatic particular of the proj- th the informatic particular of the eriting Arup of sa I techniques; the coordination of it and performing a coordination of it anner. This revi- uty to comply w d any action sho of plans and spe- ase Arup's stan- ontractor shall i o make a claim I	neral conformance ect and general on given in the co- ionsible for quante e confirmed and iking for deviation d the contract me; fabrication e means and met s work with that co- all work in a safe a ew does not modi ith the contract own is subject to coffications. This is dard of care or so mmediately notify based on this sub	e with ntract ities s hods of of all and fy eview ope of r Arup mittal.	

T-0217

From: Webcor Construction LP

**BSE - Buttress Shift To The East** 

Nhi Tran

To: Turner Construction Compan Gary Krutsch

Closed

08/24/2011 09/03/2011 08/30/2011 Potentially

Answered By: Adamson Associates, Inc George Metzger



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Co-Author: Balfour Beatt	y Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference RFI #T-0 Section 31 63 29, a	0183.1, Sheet GT-220 and attached sketch	1, Specification			ARUP Respor eastings show	nse: The propos n are acceptab	sed northings and le.		
The sketch that was to RFI T-0183.1 sho shifting 4" to the we in the 8/17/2011 TC parties agreed that confirm that the 4" acceptable to instal drawing.	s included in the Engin ows Buttress rows S, set. Per discussions w 603 BSE Design Team the 4" shift is not need shift is not necessary I the Buttress shafts p	neer's response T, U, V, and W, th the Engineer n Meeting, all ded. Please and that it is er the attached							
T-0217.1 From: Balfour Beatt	BSE - Maximum A	Allowable Spacing Betwee Ural Yal	een Buttress Shafts To: Turner Construction Co	<b>Closed</b> ompan Gary Krutsch	03/23/2012 Answered By	<b>04/02/2012</b> Adamson Ass:	03/23/2012 ociates, Inc Georg	<b>Potentia</b> e Metzger	lly
Co-Author:							_		
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Becho requests for allowed spacing be and West of C-Line belo mitigate Buttre	ARUP to provide the tween the tangent sha Allowing such chang	maximum ifts East of P-Line les could possibly			The tangential increased from west of C-Line	I spacing of the n 4 inches to 8 e.	buttress shafts ma inches east of PLir	ay be ne and	
	ber Subject Author: Balfour Beatty Infrastructure, Inc. FIQUEST: Reference RFI #T-0183.1, Sheet GT-220 Section 31 63 29, and attached sketch The sketch that was included in the Engit to RFI T-0183.1 shows Buttress rows S, shifting 4" to the west. Per discussions w in the 8/17/2011 TG03 BSE Design Team parties agreed that the 4" shift is not necessary acceptable to install the Buttress shafts p drawing. TA1 BSE - Maximum A From: Balfour Beatty Infrastructure, Inc. HTC Becho requests for ARUP to provide the allowed spacing between the tangent sha and West of C-Line. Allowing such change help mitigate Buttress Shaft schedule.				Contractor to trestle pile loc	verify that this c ations / design.	loes not impact the	)	
					Contractor to clearance at 3	verify tht there i 01 Mission.	s adequate equipn	nent	
					Contractor to coordiantes in 217 for tie-dov	provide revised a sketch simila vn location coo	northing and easti ar to that incuded ir rdination.	ng ì RFI	
 T-0217.2	BSE - Increased S	Spacing Between Buttres	ss Shafts east of P-line	Closed	04/12/2012	04/22/2012	04/19/2012	Potentia	lly 🗌

From: Balfour Beatty Infrastructure, Inc. Ural Yal

Co-Author:

**To:** Turner Construction Compan Gary Krutsch

Answered By: Adamson Associates, Inc George Metzger



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functional temporary bridge.

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R	EQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Re	eference: BBII Spacing Sketch				ARUP Respon	nse:			
Pe ta fro co sh	er the Engineer's response to RFI T-0 ingential spacing of the Buttress shaft om 4" to 8" east of P-line and west of onfirm that the revised Buttress footpr nown on the attached sketch is accep	0217.1, "The is may be increased C-line." Please int and coordinates table.			Confirmed ex and A3 do not	cept that the co t appear to refle	ordinates for shaf ct RFI 217.1.	its A1	
T-0218	BSE - Timber L	agging Underneath Instru	ument Protection Slab	Closed	08/29/2011	09/08/2011	08/31/2011	Potentia	lly
Fre	om: Webcor Construction LP	Nhi Tran	To: Turner Construction Co	ompan Gary Krutsch	Answered By	Adamson Ass	ociates, Inc Geor	rge Metzger	
Co-Auth	hor: Balfour Beatty Infrastructure, Inc.	Ural Yal							
R	EQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
R( Sp in: in: Th	eference RFI #T-0214, Sheet GT-510 pecification Section 31 56 13 ontract drawing GT-5102 indicates tir stalled underneath the 2' section of th strumentation protection slab betwee he original construction sequence for	2, and nber lagging being ne concrete n grids 27 and 30. esaw the			ARUP Responded below the pro- take appropriate below the slate	nse: It is accept tection slab as   ate measures to p from falling int	able to omit the la proposed. Contra keep any loose i o the excavation.	agging ctor to material	
in: ac pc wi	strumentation protection slab being ir djacent buttress work platform. BBII is puring the instrumentation slab and th ork platform monolithically on Wedne hich makes the timber lagging suppo	nstalled prior to the s planning on le adjacent buttress sday 8/31/2011, rt redundant.							
Pl dr pr	lease confirm that the timber lagging awing GT-5102 is not required to be ompt response is highly appreciated.	shown on contract installed. Your							
T-0219	BSE - Abutmen	ts At Temporary Bridges		Closed	08/29/2011	09/08/2011	09/15/2011	Potentia	lly
Fre	om: Webcor Construction LP	Nhi Tran	To: Turner Construction Co	ompan Gary Krutsch	Answered By	Turner Constr	uction Comr Kevi	n Chiu	
Co-Auth	hor: Balfour Beatty Infrastructure, Inc.	Ural Yal							
R	EQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Re T( cc	eference Specification Section 01 53 G0300-201 Item TZ1030-015313A09 omments (attached)	13 and Submittal response			Per spec 01 5 herein, approa to provide a c	3 13 and David ach slabs are no oordinated desi	Fyfe's response ecessary items re gn and a complet	included quired ely	



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DPW review comme submittal (TZ1030-0 calls for BBII to "prov to Caltrans." URS co that "Approach slabs event, it is important access to these temp Concrete approach s requirement in the te advise if approach sl the temporary bridge	nt #40 on the tempor 15313A09, package vide concrete approar mment #32 on the su are recommended. that emergency vehi porary bridges." labs are not included mporary bridge spec abs must be added to s.	ary bridge TG0300-201) ch slabs similar ubmittal states After seismic cles still have d as a ifications. Please o the scope of			 2011-09-14 - I SF DPW requ	David Fyfe lires approach s	 labs.		
T-0219.1	BSE - Approach S	labs At Temporary Brid	ges	Closed	11/04/2011	11/14/2011	11/16/2011	Potential	ly
From: Webcor/Obaya	ishi Joint Venture	Nhi Tran	To: Turner Construction Cor	mpan Gary Krutsch	Answered By	URS Corporat	on David	d Fyfe	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference RFI#T-02 On 11/3/11 W/O was temporary bridge coor response T-0219 app (3) temporary bridges Please confirm.	19 and Specification informed by PMPC ordination meeting the proach slabs were no s.	Section 01 53 13 during a at contrary to RFI t required at the			Comments ma discussions sl response to R RFI# T-0219, SF DPW, has approach slab approved by t requirements addressed be agency during Temporary Br	ade by PMPC in hall not be cons FI# T-0219. As please note tha expressed the os to achieve a p he agency. It is concerning app tween the contro- the building pe idges Package.	a across the table idered as modifyi an added clarific t the permitting a potential need for backage which ca recommended th roach slabs be actor and the peri rmit submission of	ng the ation to gency, use of n be nat nitting of the	
					00/00/0044	00/00/0044	00/00/00//		
I-0220	BSE - Pile Extract	Nhi Tron	Te: Teres Orester State	J Closed	08/29/2011	09/08/2011	09/02/2011	Potential	iy
Co Author: Delfeur Deettu			10. Turner Construction Cor	npan Gary Krutsch	Answered by	- Turner Constru	action Comp Jack	Adams	
CO-Aution. Dailour Beauy	innastructure, inc.						_		
REQUEST:       Si         Reference RFI#T-0188.1, Specification Section 02 41 19, and attached sketch       BBII intends on extracting the remainder of the existing timber piles leasted at gridling 22 5 1/0 and 21 5			SUGGESTION:		ANSWER: We recomme piles east of E described in of exception that	Accept Sug nd that the proc Beale Street follo bur response to t backfilling with	gestion:	ng the in the ile. See	



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method approv considerable d involves extrac without a steel structural pre t the locations o Please confirm	red in T-0188.1, as the pi istance from the 199 Fre ting piles using the vibrat casing and backfilling the rench sand. Attached is a f the piles obstructing the o that this is acceptable.	les are located a mont building. This tory hammer e void with a drawing indicating e CDSM wall.							
 T-0221	BSE - Salvage S	steel At Temporary Bridges		Closed	08/29/2011	09/08/2011	09/30/2011	Potential	ly 🗌
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction Compan	Gary Krutsch	Answered By	URS Corporation	on Carol	lina Aguilar	
Co-Author: Balfour E	Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Spe TG0300-201 It comments (att DPW review of 015313A09, pa that states "sal used as structu temporary brid salvage materi "2. Steel, Salva mechanical pro determination of recycled from p to be incorpora performed on a a. Where mal corresponding sampling shall of structure ele b. Where mal yield strength f on 10% of eac c. Where mal yield strength f sampling shall of structure ele	ecification Section 01 53 <sup>-</sup> em TZ1030-015313A09 r ached) f the temporary bridges s ackage TG0300-201) incl lvage materials are not ac ural members for the brid ge specifications do allov al as follows: age Material: Submit coup operties and chemical tes of weldability. For steel m prior Projects (salvaged n ated into temporary works a random sampling basis terial properties relied up to minimum yield strengt be performed on 5% of e ement type. terial properties correspoi y=36,000 psi, sampling s h major series of structur terial properties correspoi y=42,000 psi or 50,000 p be performed on 20% of ement type.	13 and Submittal response ubmittal (TZ1030- udes comment #8 cceptable to be ges. The v for the use of pon tests for taterials which are naterials) and are s, testing shall be as follows: on for design h fy=30,000 psi, each major series nding to minimum shall be performed e element type. nding to minimum si is used, each major series			In order to eva is required. Pl members that temporary brid listed: 1). Indicate wi consists of new 2). Provide the the steel mem 3). Provide inf as its current of inspected by a prior use was 4). For each or total weight of type and usage Finally, please steel material to bridge.	Iluate compliand ease submit list will be used on ges. For each hether the struc w or salvaged m e exact location ber is located formation on the condition, when t TJPA Represe complete tempo salvage steel, s e. provide the we that will be used	e, additional info t of all structural s each of the three structural steel m tural steel memb haterial along the bridge e salvaged materi and where it may ntative, and what rary bridge, provisummarized by el ight of total salva d at each tempora	rmation steel iember er that ial, such / be t its de the lement iged	



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d. Testing performed per subparagraphs above at sampling rates of 5%, 10%, and 20%, respectively, shall be reported to the Owner's Representative in writing. Testing results must satisfy all samples meeting 100% of materials strength requirements for acceptance of salvage materials. If less than 100% of materials tested meet this requirement, then the sampling rate shall be increased. In this event, the sampling rate for retesting shall be subject to review and approval by the Owner's Representative."

Please advise if salvage material is still acceptable per the project specifications.

T-0222	BSE - Temporary B	ridge Pier Locations	Cic	08/29/2011 09/08/2011 09/01/2011 Potentially					
From: Webcor Cor	struction LP	Nhi Tran	To: Turner Construction Compan Gary Kr	nstruction Compan Gary Krutsch Answered By: Adamson Associat				rge Metzger	
co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal									
REQUEST: Reference Specifi TG0300-201 Item comments (attach Temporary bridge	cation Section 01 53 13 a TZ1030-015313A09 resp ed) review comments (Subm	nd Submittal onse ittal TZ1030-	SUGGESTION:		ANSWER: Thornton Ton in conflict with shown in plar distance from shall be 2'-0.'	Accept Sug nasetti Response in the mat founda in and section S1 face of pier to b	gestion: e: The piers sha tion chamfer (ch 3201). Minimur ottom edge of cl	ll not be amfer n clear namfer	
Temporary bridge review comments (Submittal TZ1030- 015313A09, package TG0300-201) call for the end piers on all three bridges to be relocated to avoid interrupting chamfer rebar (see attached markups). With the information provided to BBII in the plans and specifications, there was no indication that this reinforcement must be avoided, nor was there a required clear zone from the shoring wall to the first pier. Please advise if these piers absolutely need to move, or if their current locations can be accommodated. Increasing the span between the abutments and the first pier will have commercial impacts.					8/31/2011 Ge ARUP Respo referenced pi submittal.	eorge Metzger nse: Arup takes er locations that	no exception to are shown in the		

T-0223 **BSE - Temporary Bridge Pedestrian Barrier Height** Closed 08/30/2011 09/09/2011 09/27/2011 Potentially From: Webcor Construction LP Nhi Tran To: Turner Construction Compan Gary Krutsch Answered By: URS Corporation David Fyfe Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal



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<b>REQUEST:</b> Reference Specification Section 01 53 TG0300-201 response comments (atta DPW review of the temporary bridges in #42 that calls for the pedestrian barrier a combination railing with a minimum h the specifications only call for a 3'-6" ba advise if the minimum height must be in	13 and Submittal ched) ncludes comment to be designed as eight of 4'-6" while arrier. Please ncreased to 4'-6".	SUGGESTION:		ANSWER: Response to I attached skete T-0228." This traffic plan fig Bridge Traffic submittal item this is the late proposed proo	Accept Sug RFI No.T-0223 i ch titled, "Sketc attached sketc ure, "Non-Work Plan" (submitta TZ1030-01531 st presentation duct. sketch shows a	gestion: s provided hereir h - RFI Nos.T-02 h is a mark-up of ing Hours, Temp I package TG03( 3, page 3 of 6) b of the Contractor	n and on 23 and 5 BBII's orary 00-204, ecause	
				conformance completed be SFMTA. Whe separating pe height equals pedestrian wa Note, these co sketch pertain full review and Package TG0 at a later date	with current coc tween the Proje re the handrail/g destrian and ve 3'-6" measured lking surface. omments provid only to RFI No d response of Tr 300-204 will be	ordination comme ct and CCSF DP guardrail system hicle traffic, requi from the top of led on this attach s.T-0223 and T-0 raffic Plan Submi finalized and trar	ents W and occurs red 228, a ttal nsmitted	
T-0224 BSE - Tempora	ry Bridge Deflection ar	nd Suspended Utilities	Closed	08/30/2011	09/09/2011	09/09/2011	Potential	Iv 🗔
From: Webcor Construction LP	Nhi Tran	To: Turner Construction Constru	ompan Garv Krutsch	Answered By	AECOM Tech	nical Service Eric	Zagol	.,
Co-Author: Balfour Beatty Infrastructure, Inc.	Ural Yal			-				
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	aestion:		
Reference Specification Section 01 53 cut sheets	13 and attached			Please provid movement an	e information or d hanger suppo	the predicted rt system such th	nat the	
Where utilities transition from direct but the temporary bridges, BBII believes th allowance for deflection to prevent dam during a seismic event. Attached are cu expansion fitting and deflection fitting th used in combination at bridge transition flexible steel conduit may be an option Please confirm that all Phase 2 utilities below the temporary bridges will include handling bridge deflection.		condition can Movement dir How much muc location? Are the steel of supports? Ple for review.	be assessed. ection; lateral o ovement is bein conduits rigidly o ease provide the	r longitudinal? g predicted and a connected to the a hanger support	it what hanger design			



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T-0224.1	BSE - Temporary E	Bridge Deflection and	Suspended Utilities	Closed	09/23/2011	10/03/2011	09/27/2011	Potential	ly
From: Webcor Const	truction LP	Nhi Tran	To: Turner Construction Compa	an Gary Krutsch	Answered By:	AECOM Techn	ical Service Eric Z	Zagol	
Co-Author: Balfour Beatty	Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	jestion:		
Reference RFI #T-0 and attached e-mails The response to RF information about br provided by email to questions were answ attached email string Please provide the n conduit run for all the	224, Specification Sec s I T-0224 requested ad idge movements. This AECOM on 9/9/11. Fo wered on 9/15/11. Plea g. nake, model, location e utilities supported by	tion 01 53 30, information was ollow on ase see the and quantity per the bridge			In reference to confirmed that PG&E) to be s will include me Verizon has in expansion fittir equal. One fitti along the supp two are aligned incorporated ir prepared by Ve PG&E has ind Expansion fittir equal. One fitti along the supp two are aligned incorporated ir prepared by Pe	the request in l all Phase 2 util uspended below eans of handling dicated the use ngs for rigid stee ting is proposed oorted section st d. This design e to construction erizon. icated the use of ngs for rigid stee ting is proposed oorted section st d. This design e to construction G&E.	RFI T-0224, it has ties (Verizon and v the temporary b bridge deflection of O-Z/GEDNEY el conduit type E> on each conduit aggered such tha element will be documents being f O-Z/GEDNEY el conduit type E> on each conduit aggered such tha element will be documents being	s been I vridges I. (, or located at no () () () () () () () () () () () () ()	
T-0224.2	BSE - Temporary E	Bridge Deflection and S	Suspended Utilities	Closed	10/05/2011	10/15/2011	10/12/2011	Potential	lly
From: Webcor Const	truction LP	Masashi Kojima	To: Turner Construction Compa	an Gary Krutsch	Answered By	AECOM Techn	ical Service Eric Z	Zagol	
Co-Author: Balfour Beatty	Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	jestion:		
Reference RFI T-22 Section 01 53 30	4, 224.1, CR T-017 an	d Specification			Response from	n PG&E (attach	ed) is as follows:		
The response to RF readily available (8 v similar AX is. Pleas each model and adv acceptable.	I T-0224.1 The 4" EX r week lead time), howev e see the attached dat rise if this revised mate	model is not ver the very ta sheets for erial is			an acceptable fitting. Type B required.	xpansion fitting substitute for th J external bond	ror 4" steel condi e type EX expan ing jumper will sti	sion ill be	
Т-0224.3	BSE - Temporary E	Bridge Deflection and States	Suspended Utilities	Closed	10/24/2011	11/03/2011	11/08/2011	Potential	lly
From: Webcor Const	truction LP	Nhi Tran	To: Turner Construction Compa	an Gary Krutsch	Answered By	AECOM Techn	ical Service Eric Z	Zagol	

Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal



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REQUEST: Reference CR T-017 BBII have been advi required on per rigid The PG&E construc (highlighted in yellov expansion fitting to b	7R1 and Response to se that only 1 deflecti conduit run, between tion drawings attache () 2 locations A and J re used.	RFI#T-0224.2 on fitting is gridline A and J. d, indicate line; request	SUGGESTION:		ANSWER: 1 deflection fitt # T-0224.2 is r Submit propos coordinated wi bridge elemen	Accept Sugg ing per conduit required. ed configuration th temp bridge ts for review.	gestion: run as described n of deflection fitt supports and othe	in RFI ings er	
It is not clear from th 1 deflection fitting pe RFI # T-0224.2. Plea conduit run between Please provide a dra configuration for indi	e drawings attached er conduit run as prev ase confirm only 1 de GL A-J is required by awing showing, the de vidual conduit runs.	if PG&E require ious stated in flection fitting per y PG&E. flection fitting							
T-0225	BSE - CDSM Aligr	ment Conflict With E	xisting Utilities GL 1-J	Closed	08/31/2011	09/10/2011	08/31/2011	Potentia	ly
From: Webcor Const	ruction LP	Nhi Tran	To: Turner Construction Compa	n Gary Krutsch	Answered By	AECOM Techr	ical Service Eric 2	Zagol	
Co-Author: Balfour Beatty	Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Sheet D- and attached photo BBII laid out centerli Gridline J. The center existing utilities PG8 location of the CDSN to be capped east of Drawing D-2231 BSI otherwise all utilities the limits of the work relocation of utilities	2231, Specification S ne of the CDSM on G erline of the shoring in E/Water is in direct of A shoring wall. These the centerline. E contract states "Un have been cut and ci by Transbay Transit ' Please see photos	ection 31 56 13, aridline 1 and adicates that the onflict with the utilities appear less specified apped outside Centre program s attached.			Shoring wall cl 0017. Basis o shoring wall. \ TJPA early ne change.	hanged per the f the AECOM P We are planning xt week to addro	response to BSE lans is the pre RI g to issue revisior ess the shoring w	RFI- FI-0017 is to fall	
Please confirm the s utilities.	tatus on the relocatio	n of these							



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T-0225.1	BSE - CDSM Alig	nment Conflict With	Existing Utilities GL 1-J	Closed	08/31/2011	09/10/2011	09/09/2011	Potentiall	у 🗌
From: Webcor Co	nstruction LP	Nhi Tran	To: Turner Construction Constru	ompan Gary Krutsch	Answered By	AECOM Techr	nical Service Eric	Zagol	
Co-Author: Balfour Bea	tty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference RFI#T	-0225				Status is as fo	ollows, RUP AS	-015 has been c	reated	
The response rec the requested info	eived for RFI #T-0225 c ormation.	does not provide			change to the RFI-0017. As implementation	CDSM shoring 61-015 was issue on on 9/8/11.	wall resulting fro ed for pricing and	m BSE I	
Question from RF	TI#T-0225								
Reference Sheet and attached pho	D-2231, Specification S to	Section 31 56 13,							
BBII laid out cente Gridline J. The ce existing utilities P location of the CD to be capped east	erline of the CDSM on C interline of the shoring i G&E/Water is in direct ( DSM shoring wall. These t of the centerline.	Gridline 1 and ndicates that the conflict with the e utilities appear							
Drawing D-2231 E otherwise all utiliti the limits of the w relocation of utiliti	BSE contract states "Ur les have been cut and c ork by Transbay Transi es" Please see photo	lless specified apped outside t Centre program s attached.							
Please confirm th utilities.	e status on the relocation	on of these							
T-0225.2	BSE - CDSM Alig	nment Conflict GL 1-	J - PG&E Vault Utility Conflict on	Natoma Closed	09/12/2011	09/22/2011	09/14/2011	Potentiall	<b>y</b> $\Box$
From: Webcor Co	nstruction LP	Nhi Tran	To: Turner Construction Co	ompan Gary Krutsch	Answered By	AECOM Techr	nical Service Eric	Zagol	
Co-Author: Balfour Bea	tty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference RFI #T Specification Sec	-0017, #T-0225.1, She tion 31 56 13	et U-1110, and			Based on pro PG&E MH is wall revised p	vided field inform located 11" clea er resonse to R	nation, the existing r of the CDSM sl FI T-0017, please	ng horing e clarify	
Your attention is a 1110, which depic ones to be protec CDSM wall alignn vault on Natoma S However, based of Natoma St is in c	of the CDSM shoring w also directed to the utilit cts the utilities to be aba ted in place with respec ment. According to U-11 Street shall be protected on the field layout, the P	y drawing U- andoned and the andoned and the to the old 10, the PG&E d in place. PG&E vault on est corner of the			If safety is of to a live PG&I TJPA's Repre prior to and di PG&E MH 13 90 Natoma is vacant	concern while w E MH, coordinat esentative to de uring CDSM wal 48 exists to prov s owned by the T	orking in close p e with PG&E thre energize the exis I construction. E <i>i</i> de power to 90 GPA and is curre	roximity ough sting MH ixisting Natoma. ently	



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CDSM wall alignment, which was revised per RFI No. T-0017.

Based on BBII's field measurements, the clearance between the PG&E vault on Natoma St. and the centerline of the CDSM wall is 29", which is less than the 36" typical distance required by the contract plans as the minimum clearance between the demarcation lines and the CDSM wall alignment.

BBII requests the PG&E vault on Natoma St. to be relocated to a safe distance outside the work limits of the revised CDSM wall alignment.

The 36" demarcation line mentioned in the RFI is an arbitrary scope division line established between the RUP and BSE packages to differentiate abandon utility removal between the two packages.

T-0225.3	BSE - CDSM Alignm	ent Conflict GL 1-J - F	G&E Vault Utility Cor	nflict on Natoma	Closed	10/03/2011	10/13/2011	10/20/2011	Potentially
From: Webcor Constr	uction LP	Nhi Tran	To: Turner Constr	ruction Compan Gar	y Krutsch	Answered By:	urner Construc	tion Comr Kevin	n Chiu
Co-Author: Balfour Beatty	Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:			ANSWER:	Accept Sugge	estion:	
Reference RFI #T-02 Specification Section sketch	25.2, Sheet D-2231 an 31 56 13, and attached	d ASI-015, d photos and				It is noted that p RFI, the contract adjacent PG&E concrete over po	prior to receiving stor installed CD vault 1348 with our. A PG&E st	the response to SM panel #W00 out chipping aw andby crew was	o this 001 ay the s
BBII in discussions w to PG&E vault #1348	vith DND will be able to a, referenced in RFI #T-	work adjacent 0225.2.				present and obs	erved the insta	llation.	o tooth
BBII is currently cons pour on the vault, de installing CDSM Sho	idering removing the co energizing the power ir ring Wall without reloca	oncrete over n the vault and tting the vault.				of auger may ha this area. W/O t #1348 due to Cl	ave broken off d o confirm there DSM work	uring install of p is no damage to	o Vault
Please confirm it is a over pour within 20"	cceptable to remove ar from the centerline of C	ny concrete DSM wall.							
Also, please confirm at the location close potential damages.	it is acceptable to insta to the PG&E vault #134	II CDSM Wall 18 without							
Please refer to the at	tached photos								



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F	rom: Webcor Construc	ction LP	Nhi Tran	To: Turner Construction C	ompan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Au	thor: Balfour Beatty In	frastructure, Inc.	Ural Yal							
F	<b>REQUEST:</b> Reference RFI #T-0214	4 and attached sketc	h	SUGGESTION:		ANSWER: ARUP Respor	Accept Sug	gestion:		
F t a	Per discussion with the the Instrument Protecti and the following revisi	e engineer, it is accept on Slab per the attact ons to RFI T-0214:	otable to install ched sketch			This is accept	able.			
1 2 1	1. W-beams cut so tha them. 2. #6 rebar thru the W- lieu of Nelson Studs.	t the top mat will be beam, tie-wired to th	resting on e top mat in							
F	Please confirm.									
T-0227		BSE - Buttress Anti	-Washout Admixture		Closed	09/02/2011	09/12/2011	09/08/2011	Potential	ly 🗌
F	rom: Webcor Construc	ction LP	Nhi Tran	To: Turner Construction C	ompan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Au	thor: Balfour Beatty In	frastructure, Inc.	Ural Yal							
F	REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
F	Reference Specificatio Rheomac product data	n Section 03 30 01 a	ind attached			ARUP Respor This is accept	nse: able.			
F () () () () ()	Per the recommendation Concrete, BBII would lit Washout Admixture, R and approved Buttress Concrete. Please revie acceptable.	ons from both Becho ke to propose the us heomac UW 540 in a Primary and Second w and confirm that th	and Central e of an Anti- all submitted dary Shaft nis is							
T-0228		BSE - 6-inch Sidew	alk At Temporary Bridges	5	Closed	09/02/2011	09/12/2011	09/27/2011	Potential	ly 🗌
F	rom: Webcor Construc	ction LP	Nhi Tran	To: Turner Construction C	ompan Gary Krutsch	Answered By	URS Corporati	ion Davi	d Fyfe	
Co-Au	thor: Balfour Beatty In	frastructure, Inc.	Ural Yal							
l F S	REQUEST: Reference Specificatio sketches	n Section 01 53 13 a	ind attached	SUGGESTION:		ANSWER: Response to F attached skete T-0228." This	Accept Sug RFI No.T-0228 i ch titled, "Sketcl attached sketc	gestion: s provided hereir h - RFI Nos.T-02: h is a mark-up of	and on 23 and BBII's	
] 8	During a temporary brid 8/29/11, SFMTA sugge	dge traffic coordinations the sted the use of a 6"	on meeting on elevated			traffic plan fig Bridge Traffic	ure "Non-Workiı Plan," (submitta	ng Hours, Tempo al package TG03	rary 00-204,	



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sidewalk curb in lieu of the crash rated pedestrian barrier. The crash rated barrier would be relocated to the outside edge of the temporary bridge.

BBII believes this layout has numerous advantages and resolves some concerns as well:

SFMTA brought up the obvious concern of damage to side mirrors with tall barriers directly adjacent to the traveled lanes. To compensate for this, drivers will shy away from barriers in already tight lanes. Moving the barrier alleviates this problem on one side of the road.
A barrier between the sidewalk and traveled lanes has a blunt ends that pose a hazard (see sketch). Relocating the barrier eliminates this hazard.
The area formerly occupied by the pedestrian barrier

(approx 14" in width) can be used as extra traveled width for vehicles (distributed per SFMTA's discretion) - An elevated sidewalk curb will make trestle crossings feel like a typical street crossing, especially for the visually impaired. As such, pedestrians will be more likely to treat the trestle intersection as a true signalized intersection.

SFMTA has indicated that the elevated sidewalk is preferred over a pedestrian barrier. Attached are several sketches of the proposed layout - please confirm this is acceptable.

introduction of the mixing water to the cement and aggregates or the introduction of the cement to the

aggregates."

submittal item TZ1030-015313, page 3 of 6) because this is the latest presentation of the Contractor proposed product.

This attached sketch shows an installation in conformance with current coordination comments completed between the Project and CCSF DPW and SFMTA. As shown on attached Sketch - RFI Nos.T-0223 and T-0228, a handrail/guardrail providing separation of pedestrian and vehicle traffic is required.

Note, these comments provided on the attached sketch pertain only to RFI Nos.T-0223 and T-0228, a full review and response of Traffic Plan Submittal Package TG0300-204 will be finalized and transmitted at a later date.

T-0229	BSE - Concrete Ti	ime of Discharge Req	juirement	Closed	09/06/2011	09/16/2011	09/08/2011	Potentially
From: Webc	or Construction LP	Nhi Tran	To: Turner Construction Comp	an Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geo	rge Metzger
Co-Author: Balfou	ur Beatty Infrastructure, Inc.	Ural Yal						
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:	
Reference S	Specification 03 30 01				ARUP Respor This is accept	nse: able.		
Per SS 03 3 completed v revolved 30	30 00, 3.3.D, "Discharge of co within 1½ hours or before the o	ncrete shall be drum has as first, after the			·			



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Per ACI 301 (Section 4.1.2.9), "Time of discharge - When it is desired to exceed the maximum time for discharge of concrete permitted by ASTM C 94C/ 94M, submit a request along with a description of the precautions to be taken."

BBII is planning for discharging concrete with the following precautions: As concrete hydration can be controlled for a maximum of 10 hours, BBII suggests discharge of concrete shall not be restricted to 1½ hours. In order to sustain the requirements of Becho, BBII purposes to replace the 1½ hour time restriction to 3 hours with an 80° F maximum temperature requirement.

Please confirm that this discharging plan is acceptable for Buttress Concrete per ACI 301.

T-0230 BSE - Concrete S	SE - Concrete Sampling Location Closed					09/16/2011	Potentially	
From: Webcor Construction LP	Nhi Tran	To: Turner Construction Compan Gary Krutsch	Answered B	:Turner Constru	uction Comr Kev	in Chiu		
Co-Author: Balfour Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
<ul> <li>&gt;Author: Balfour Beatty Infrastructure, Inc. Ural Yal</li> <li>REQUEST: Reference Specification Section 03 30 01</li> <li>Per the Pre-Construction Buttress Shoring Phase 1 DFOW Meeting on 8/30/2011, BBII proposes to conduct concrete sampling of Central Concrete Trucks in Lot P in lieu of Zone 4 due to site congestion and safety concerns. In order to sustain the requirements of Becho and to provide safe disposal of concrete for sampling, BBII purposes Lot P for all concrete sample inspections.</li> <li>Please confirm that this is acceptable.</li> </ul>				The Contract associated wi location from limited to, add 2011-09-15 G ARUP Respo Arup takes no P provided th accordance wi in accordance shall	or shall bear all a th changing the Zone 4 to Lot P ditional inspecto Seorge Metzger nse: o exception to sa e concrete is sa vith the ASTM S o with the Standa I be obtained aff	additional costs concrete sampli (including, but n rs) 	ng ot s in Lot d in ample, f the ore 90 %	



soon as permission is issued by the City.

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T-0231	BSE - 24-Hour Ins	pection of Buttress Sh	oring Shaft	Closed	09/12/2011	09/22/2011	09/12/2011	Potentiall	у 🗌
From: Webcor Co	onstruction LP	Nhi Tran	To: Turner Construction Compared	n Gary Krutsch	Answered B	:Turner Constru	uction Comr Kevi	n Chiu	
Co-Author: Balfour Bea	atty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Specif	fication Section 03 30 01				TJPA Repres	entatives will be	available to insp	ect the	
Per the Pre-Cons DFOW Meeting of TJPA representa Buttress Shoring specified inspecti shaft cleanliness, rebar. In addition representative be Becho/BBII with f available represe	struction Buttress Shoring on 8/30/2011, Becho requires be available to obset drilling operation and to ions. This includes: vertice, verification of bed rock, Becho requests that a e available 24 hours of the full support and contact in entatives.	g Phase 1 Juests that a rve the 24 hour perform any/all cality of shaft, concrete and FJPA e day to provide nformation of all					· ·	,	
Please confirm th	nat this is acceptable.								
T-0232	BSE - Buttress Re	ed Color Concrete		Closed	09/15/2011	09/25/2011	09/16/2011	Potentiall	у 🗌
From: Webcor Co	onstruction LP	Nhi Tran	To: Turner Construction Compar	n Gary Krutsch	Answered B	:Adamson Ass	ociates, Inc Geo	rge Metzger	
Co-Author: Balfour Bea	atty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Specif	fication Section 03 30 01	and Sheet GT-			ARUP Respo	nse:			
Per discussion wi red color concrete C5 in lieu of Prim	ith the Engineer, it is acc e in Secondary Buttress ary Buttress Shafts C2,	eptable to place Shafts C3 and C4, and C6.			This is accep	table.			
Please confirm th	nis is acceptable.								
T-0233	BSE - Internal Bra	cing Design Coordina	tion with Structural Design	Closed	09/20/2011	09/30/2011	09/23/2011	Potentiall	v
From: Webcor/Ob	bayashi Joint Venture	Masashi Kojima	To: Turner Construction Compar	n Gary Krutsch	Answered B	Adamson Ass	ociates, Inc Geo	rge Metzger	·
Co-Author:		-		·					
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Specif	fication Section 31 55 00	Receipe Design			Thornton Ton review of revi	nasetti's respons sed internal brac	se is pending rec	eipt and	
was approved by	TJPA and the fabrication	n will start as							



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Please confiri structural des into their desi	m the design was accep signer (Thornton Tomase ign for future trade packa	table to permanent atti) and incorporated ages.							
T-0233.1	BSE - Internal	Bracing Design Coordina	tion with Structural Design	Closed	09/23/2011	10/03/2011	10/03/2011	Potential	ly 🗌
From: Webco	r Construction LP	Nhi Tran	To: Turner Construction Com	pan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference RF 02321	FI #T-0233 and TJPA Tr	ansmittal No. 140-			TT is currently Documents, v	<pre>/ reviewing the I /hich was receiv</pre>	nternal Bracing D red by TT on 09/2	Design 29/2011.	
The SFDBI-a related calcul TJPA Transm Bracing for SI Constructwar	pproved Internal Bracing lations was sent to W/O nittal No. 140-02321 - Ap horing Wall Permit Draw 'e.	g drawings and on 9/22/2011 as oproved Internal rings, and available in			TT's commen the Internal B	ts to this docum racing Design D	ent will be marke ocument.	ed up on	
RFI #T-0233	Question:								
The BSE sub was approved soon as perm	mittal TG0300-542.1 Int d by TJPA and the fabric hission is issued by the C	ernal Bracing Design ation will start as City.							
Please confire structural des into their desi	m the design was accep signer (Thornton Tomase ign for future trade packa	table to permanent etti) and incorporated ages.							
T-0233.2	BSE - Internal	Bracing Design Coordina	tion with Structural Design	Closed	10/05/2011	10/15/2011	10/10/2011	Potential	ly 🔄
From: Webcon	r Construction LP	Masashi Kojima	To: Turner Construction Com	pan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference RF and TJPA Tra	FI #T-0233, T-0233.1, Si ansmittal No.140-02321.	ubmittal TG0300-542			Thornton Tom Transmittal #1	asetti will be iss 140-02321.	suing comments	to	

W/O is in receipt of TJPA Submittal Package #TG0300-



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542 for the internal bracing from which W/O is proceeding per specification section 01 13 00. W/O is aware the design team did not review and comment on Transmittal #140-02321 (DBI's comments) to Submittal Package #TG0300-542. Please confirm no design team changes or comments will be made to Submittal Package #TG0300-542 rather future trade packages.
RFI #T-0233.1 Response TT is currently reviewing the Internal Bracing Design Documents, which was received by TT on 09/29/2011. TT's comments to this document will be marked up on the Internal Bracing Design Document.
RFI #T-0233.1 Question The SFDBI-approved Internal Bracing drawings and related calculations was sent to W/O on 9/22/2011 as TJPA Transmittal No. 140-02321 - Approved Internal Bracing for Shoring Wall Permit Drawings, and available in Constructware.
RFI #T-0233 Response Thornton Tomasetti's response is pending receipt and review of revised internal bracing submittal.
RFI #T-0233 Question The BSE submittal TG0300-542.1 Internal Bracing Design was approved by TJPA and the fabrication will start as soon as permission is issued by the City. Please confirm the design was acceptable to permanent structural designer (Thornton Tomasetti) and incorporated into their design for future trade packages.

T-0233.3	BSE - Internal	Bracing Design Coordination	ing Design Coordination with Structural Design		10/10/2011	10/20/2011	10/10/2011	Potentially	
From: Webcor Co	onstruction LP	Masashi Kojima	To: Turner Construction Com	pan Gary Krutsch	Answered By	Turner Constru	ction Comr Kevi	n Chiu	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		

Reference RFI #T-0233, T-0233.1, T-0233.2, Submittal TG0300-542 and TJPA Transmittal No.140-02321.

This RFI contains a statement, not a question and is inappropriate for the RFI process. RFI T-0233.2 will remain closed but unresolved until



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This RFI shall not be closed until the information / confirmation received from the Design team.

----- RFI #T-0233.2 Response -----Thornton Tomasetti will be issuing comments to Transmittal #140-02321.

----- RFI #T-0233.2 Question -----

W/O is in receipt of TJPA Submittal Package #TG0300-542 for the internal bracing from which W/O is proceeding per specification section 01 13 00. W/O is aware the design team did not review and comment on Transmittal #140-02321 (DBI's comments) to Submittal Package #TG0300-542. Please confirm no design team changes or comments will

be made to Submittal Package #TG0300-542 rather future trade packages.

#### ----- RFI #T-0233.1 Response -----

TT is currently reviewing the Internal Bracing Design Documents, which was received by TT on 09/29/2011. TT's comments to this document will be marked up on the Internal Bracing Design Document.

----- RFI #T-0233.1 Question -----

The SFDBI-approved Internal Bracing drawings and related calculations was sent to W/O on 9/22/2011 as TJPA Transmittal No. 140-02321 - Approved Internal Bracing for Shoring Wall Permit Drawings, and available in Constructware.

----- RFI #T-0233 Response -----Thornton Tomasetti's response is pending receipt and review of revised internal bracing submittal.

----- RFI #T-0233 Question -----The BSE submittal TG0300-542.1 Internal Bracing Design was approved by TJPA and the fabrication will start as soon as permission is issued by the City. Please confirm the design was acceptable to permanent structural designer (Thornton Tomasetti) and incorporated into their design for future trade packages. the requested information is provided.



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T-0233.4	BSE - Internal	Bracing Design Coordinat	ion with Structural Design	Closed	10/10/2011	10/20/2011	10/11/2011	Potentia	ly 🗌
From: Web	cor Construction LP	Masashi Kojima	To: Turner Construction Compa	n Gary Krutsch	Answered By	:Turner Constru	iction Comr Kevir	Chiu	
Co-Author:									
REQUEST	:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference TG0300-54	RFI #T-0233, T-0233.1, T-0	0233.2, Submittal o.140-02321.			Comments wil	I be returned by	14 October 2011		
When will t confirmatio	he Design team provide the not for RFI #T-0233?	e information /							
RFI #T This RFI cc inappropria remain clos information	-0233.3 Response ontains a statement, not a c ite for the RFI process. RFI sed but unresolved until the i is provided.	question and is I T-0233.2 will e requested							
RFI #T This RFI sh confirmatio	-0233.3 Question hall not be closed until the i n received from the Desigr	information / n team.							
RFI #T Thornton T Transmittal	-0233.2 Response omasetti will be issuing cor I #140-02321.	mments to							
W/O is in re 542 for the per specific W/O is awa comment o Submittal F Please con be made to trade packa	-0233.2 Question eccipt of TJPA Submittal P internal bracing from which ation section 01 13 00. are the design team did not on Transmittal #140-02321 Package #TG0300-542. firm no design team chang o Submittal Package #TG03 ages.	rackage #TG0300- h W/O is proceeding t review and (DBI's comments) to ges or comments will 300-542 rather future							
RFI #T TT is curre Documents TT's comm Internal Bra	-0233.1 Response ntly reviewing the Internal E s, which was received by T rents to this document will b acing Design Document.	Bracing Design T on 09/29/2011. be marked up on the							
RFI #T The SFDBI related calo TJPA Trans Bracing for	-0233.1 Question l-approved Internal Bracing culations was sent to W/O smittal No. 140-02321 - Ap Shoring Wall Permit Drawi	rdrawings and on 9/22/2011 as proved Internal ings, and available in							

Constructware.



remain closed but unresolved until the requested

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Thornton Tomasett review of revised in RFI #T-0233 G The BSE submittal was approved by T soon as permission Please confirm the structural designer into their design for	ti's response is penternal bracing su Question I TG0300-542.1 Ir JPA and the fabr n is issued by the design was acce (Thornton Tomas r future trade pacl	ending receipt and bmittal. nternal Bracing Design ication will start as City. eptable to permanent setti) and incorporated kages.							
T-0222 5	BSE - Intorn	al Bracing Design Coordi	notion with Structural Docian	Closed	10/17/2011	10/27/2011	10/18/2011	Potontial	
From: Webcor Con	struction I P	Nhi Tran	To: Turner Construction Com	Closed	Answered B		IU/ IO/2011	Krutech	
Co-Author:					Allowered B	y. rumer constru	action Comp Oary	Riulsch	
REQUEST			SUGGESTION			Accent Sug	aestion:		
Reference RFI #T- 0233.4, Submittal No.140-02321.	0233, T-0233.1, T TG0300-542 and	Г-0233.2, Т-0233.3, Т- ТЈРА Transmittal	SUGGESTION.		Comments hattached tran	ave been sent to smittal.	W/O previously,	see	
Per response to RI team were to be re	FI#T-0233.4, com ceived by Octobe	ments from the design er 14, 2011.							
Please provide the confirmation for RF	design team com FI #T-0233.	nments and							
RFI #T-0233.4 Comments will be	Response returned by 14 Oc	ctober 2011.							
RFI #T-0233.4 Reference RFI #T- TG0300-542 and T	Question 0233, T-0233.1, 1 JPA Transmittal I	Г-0233.2, Submittal No.140-02321.							
When will the Design confirmation for RF	gn team provide t FI #T-0233?	the information /							
RFI #T-0233.3 This RFI contains a inappropriate for th	Response a statement, not a ne RFI process. R	a question and is FI T-0233.2 will							



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information is provided.

----- RFI #T-0233.3 Question -----This RFI shall not be closed until the information / confirmation received from the Design team.

----- RFI #T-0233.2 Response -----Thornton Tomasetti will be issuing comments to Transmittal #140-02321.

----- RFI #T-0233.2 Question -----

W/O is in receipt of TJPA Submittal Package #TG0300-542 for the internal bracing from which W/O is proceeding per specification section 01 13 00. W/O is aware the design team did not review and comment on Transmittal #140-02321 (DBI's comments) to Submittal Package #TG0300-542.

Please confirm no design team changes or comments will be made to Submittal Package #TG0300-542 rather future trade packages.

----- RFI #T-0233.1 Response -----TT is currently reviewing the Internal Bracing Design Documents, which was received by TT on 09/29/2011. TT's comments to this document will be marked up on the Internal Bracing Design Document.

----- RFI #T-0233.1 Question -----

The SFDBI-approved Internal Bracing drawings and related calculations was sent to W/O on 9/22/2011 as TJPA Transmittal No. 140-02321 - Approved Internal Bracing for Shoring Wall Permit Drawings, and available in Constructware.

----- RFI #T-0233.0 Response -----Thornton Tomasetti's response is pending receipt and

review of revised internal bracing submittal.

Reference Specification Section 31 55 00 The BSE submittal TG0300-542.1 Internal Bracing Design



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	was approved by TJF soon as permission is	PA and the fabrication s issued by the City.	will start as							
	Please confirm the de structural designer (T into their design for fu	esign was acceptable 'hornton Tomasetti) a uture trade packages.	to permanent nd incorporated							
T-0234	4	BSE - Buttress Sh	aft Post Pour Settlement		Closed	09/20/2011	09/30/2011	09/22/2011	Potentia	lly
	From: Webcor Constr	uction LP	Nhi Tran	To: Turner Construction Compan	Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-A	uthor: Balfour Beatty I	Infrastructure, Inc.	Ural Yal							
	REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Reference Sheet GT-	2201 and Specificati	on Section 31			ARUP Respor	ise:			
<ul> <li>63 29</li> <li>Please be informed that an uncontrolled settlement was observed at Buttress shaft C2, which was poured on Sunday 9/18/2011. The settlement led to the formation of a 13' deep unstable hole on the buttress working pad. After consulting with ARUP representative and W/O's field personnel, BBII/Becho Inc. decided to fill the newly formed hole with concrete to mitigate the settlement risk of the working pad. Additional concrete was poured into the 13' deep hole on Monday 9/19/2011.</li> <li>Please confirm that pouring additional concrete/CLSM will be considered as an acceptable method, if such settlements will occur during the future installation of the upcoming buttress shafts.</li> </ul>					The Contracto specified) up to Contract Docu means and me the level of con- terminated, an ground surface concrete / wate the surface in the tremie met concrete occu shall be filled to CLSM, where	r shall place co o the gound sur ments. The Con- ethods necessan ncrete before co d to verify that to e is quality conc er / concrete plu advance of the thod. If some co rs over time, the o the ground su specified).	ncrete (or CLSM face as specified ntractor shall em ry to properly me oncrete placeme the material at the crete rather than ug mixture that ri quality concrete onsolidation of the en the top of the urface with conre	, where J in the ploy the asure nt is le the ses to due to e shaft te (or		
T-023	5	BSE - Unforeseen	Reinforced Concrete Slab	at GL 7.5 J	Closed	09/20/2011	09/30/2011	09/27/2011	Potentia	

From: Webcor Construction LP Nhi Tran

Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal

REQUEST:

Reference Sheet D-2210, Specification Section 31 56 13, attached photos and sketch

While excavating a pre trench at gridline 7.5J close to

To: Turner Construction Compan Gary Krutsch

#### SUGGESTION:

09/20/2011 09/30/2011 09/27/2011 Potentially Answered By: Transbay PMPC Roger Rothenburger

#### ANSWER: Accept Suggestion:

This slab is a Cal Trans slab and is located within TJPA property limits. The slab is not unknown and is shown in the set of Drawings listed in Section 00-03-31 Part 1.2.D.6 (Existing Condition: Buildings and



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Natoma concre and a s CDSM	a Street, BBII uncovered an unfo te slab. This slab is 3ft thick, un section of it is in the direct line of wall. Indicated at this location	oreseen reinforced covered at grade f the proposed o drawing D-2210			Improvements Construction fr (168 pages).	- Drawings "Pr rom Figth Stree Removal of the	oject Plans for et to Beale Stree slab is acceptabl	t, 2000'' e.	
be encountered under this mat slab. However, this slab is not indicated on contract drawing D-2210. The concrete shown in contract survey sheet 5 appears to					9/22/2011 - Ge	eorge Metzger			
The concrete shown in contract survey sheet 5 appears to be a concrete driveway and it does not indicate the 3ft thick concrete slab that BBII are encountering. Measurements taken in the field also indicate a larger area than this. The attached photos and drawing indicate the scale of this obstruction. It is required to be removed. Please advise if this is acceptable.					It is Arup's und a remnant of the previous, now- removal of the wall alignment property on wh confirmed by t	derstanding that he Caltrans seis -demolished bus portion of the s is acceptable, l nich the slab is l he PMPC / TJP	the slab encount smic retrofit work s ramps. Therefo lab within the sho but ownership of ocated should be A.	tered is of the r, oring the	
T-0236	BSE - Unforese	en Concrete Section Fo	und at Grid Line 1E	Closed	09/22/2011	10/02/2011	09/26/2011	Potentia	lly
From: V	Nebcor Construction LP	Nhi Tran	To: Turner Construction C	Compan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author: E	Balfour Beatty Infrastructure, Inc.	. Ural Yal							
REQU	EST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Refere	nce Sheet D-2210 (attached), S	pecification Section			ARUP Respor	ise:			
While I at the I concre depth o point. T 2210. I must b the deb	DND were drilling at panel 28 an locations of piles 839-843, an un the was encountered. The concre of 9.5ft. The quantity of concrete The concrete is not indicated on It is in direct conflict with the CD be removed. Shown below [attacl bris removed from the excavation	d 29 on grid line 1E known section of ete was found at a is unknown at this contract drawing D- SM shoring wall and hed] are photos of n.			Contract docu interfere with i removed by pr removed.	ments require o nstallation of the re-trenching. Th	bstacles that may e CDSM wall to b e concrete shall t	y e be	
Please	e advise on how to proceed.								
T-0237	BSE - Bridge W	/elding Code		Closed	09/26/2011	10/06/2011	10/03/2011	Potentia	lly 🗌

Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal

Nhi Tran

From: Webcor Construction LP

To: Turner Construction Compan Gary Krutsch

Answered By: Turner Construction Comr Kevin Chiu



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Number	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed		
REQUEST	2	SUGGESTION:		ANSWER:	Accept Sug	gestion:				
Reference	Specification 01 53 30			ISI Commenta	ary:					
Temporary the welding accordanc however B "Structural 3.2-A4.2 o AWS D1.1 structure fo	P Bridge Specification 01 53 13 (1.6H) requires g qualifications for the bridges to be in e with AWS D1.5 "Bridge Welding Code", BII's design was based on AWS D1.1 Welding Code" as specified in General note f Sheet SH-0100. BBII and their designer felt is more applicable for the temporary bridge or the following reasons:		"We have been requested to provide a commentary/discussion regarding AWS D1.5-2002 Bridge Welding Code in reference to RFI #T-0237. The scope of our discussion is limited to an interpretation of D1.5 and not to the design/use of welded temporary steel bridges. The RFI's request by BBII is to accept WPSs/WQTRs to AWS D1.1 rather than to AWS D1.5.							
- The mem consists of shapes, cc A572, A99	bers that make up BBII's temporary bridge i readily available standard grade mill rolled omprised of a variety of base metals (A36, A53, 2, A500, and A252) which are joined by simple divints (fillate). D1.1 provides the flexibility to			Base Material approved stee approved by t	s: Although D1. el, it also states he Engineer [D : The PEI states	5 specifies A709 a that other steels n 1.5 Section 1.2.2].	as the hay be			
weld all of prequalifie base meta A709 plate	d procedures, since they are all in the same I group. D1.5 only allows prequalified welding of material only.			welds (mostly single pass). D1.5 state fillet welding may be performed, within given limitations, without performing WPS qualification tests [D1.5 Section 2.8.1].						
- BBII's ter tubing (pie - The bridg	nporary bridge structure contains structural rs and rails), which D1.5 does not cover tubing je as designed has short spans and very simple			Welder Qualif requirements similar betwee base metal re	ications: We no for both groove en AWS D1.1 a strictions.	te that the qualific and fillet welds and nd D1.5 with excep	ation e otion of			
welded con (mostly sin penetration girder bridg	nnections. All welds shown are fillet welds igle pass). Additionally there are no complete n welds as are typically seen on steel plate ges.			Engineer's Discretions: See Commentary Sections C1.1.2, C1.2.1 and the "Forward" section of D1.5 Pgs. vii and viii."						
- The life s years	pan of these temporary bridges are less than 5									
- The temp	porary bridge's intended use and the site specific			 9/26/2011 - D	avid Fyfe					
more simil	ar to a structural steel building than to a typical			See Specifica	tion Section 01	53 13, 1.6H;				
bracing, ar similar to b	nd the girders and cap beams as detailed are building with columns and floor beams.			Welding Qual personnel acc	ifications: Quali cording to the fo	fy procedures and llowing:				
The submi	ttal review did not take exception to the general			1. AWS D1.5/	D1.5M, "Bridge	Welding Code - S	teel."			
acceptable qualificatio Engineer c	e to submit weld procedures and welder ns per AWS D1.1 as specified by the bridge's of Record.			2. AWS D1.4/ Reinforcing S	D1.4M, "Structu teel."	ural Welding Code	-			



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					This does not paragraph 1.6	allow use of AV H requirements	VS D1.1. Comply	v with	
T-0237.1	BSE - Bridge Wel	ding Code		Closed	10/03/2011	10/13/2011	10/03/2011	Potentia	ly 🗌
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction (	Compan Gary Krutsch	Answered By	Turner Constru	uction Comr Kevi	n Chiu	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference RF 30	Reference RFI #T-0237 and Specification Section 01 53 30				Response pro dated 9/26/20	vided in RFI T- 11, is the gover	0237 by David Fy ning response.	rfe,	
RFI #T-0237 v regarding the which is the g coordinated re	was returned to W/O with tw temporary bridge welding. I overning response or provid esponse.	vo responses Please clarify de one							
T-0238	BSE - Zone 1 CDS	SM Crossing Over Ex	isting Wall	Closed	09/26/2011	10/06/2011	09/29/2011	Potentia	ly 🗌
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction (	Compan Gary Krutsch	Answered By	Adamson Ass	ociates, Inc Geo	rge Metzger	
Co-Author: Balfour	Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Sh 13, attached p	eet GT-5101, Specification photos and sketch	Section 31 56			ARUP Respor	nse:			
Please addres BBII's sub cor	ss the following information ntractor DND:	request from			This is accept to the TJPA.	able provided th	nere is no additio	nal cost	
"The new CD wall at 2 locat crossings are shown in Note making a jog CDSM wall. T constructible exactly as sho tolerances for trying to instal the detail sho cause damag	SM shoring wall crosses an ions. Following CR T-005B, perpendicular to the existin a 1 on GT-5101. Note 1 sho to avoid hitting the beams o he detail shown on contract only if the existing CDSM war own, without any room for con- both the new and existing l this section of the CDSM wn on GT-5101, which woul e to the CDSM equipment,	existing CDSM both of these g CDSM wall, as ws the new wall of the existing t plan GT-5101 is all was built onstruction wall. Instead of wall according to ld potentially DND proposes to							


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		-					

remove the existing CDSM beams that are in conflict. The contract plan GT-5101 shows two CDSM panels to jog around the existing beam and one offset panel parallel to the new wall.

DND's proposed solution would eliminate the 2 panels in the jog but still maintain the additional offset panel parallel to the wall line. This additional offset panel would act as insurance so a seal is maintained through any deflection caused by the hard in-situ soil mix. This would present a potential cost savings to the project (due to 2 less panels being installed), providing the conflicting beams can be successfully removed.

DND has mobilized a drill rig with an auger to this area to pre-drill the wall prior to the removal of beams. This will substantially reduce the amount of vibration that will be required to remove the beams. DND proposes to utilize the same method at the other wall crossing near Natoma Street. Is this proposed method of removing the existing beams and soil mixing through the existing CDSM wall acceptable?"

T-0239	BSE - Rebar Cages	for Deeper Buttress Sh	afts	Closed	09/28/2011	10/08/2011	10/03/2011	Potentially
From: Web	cor Construction LP	Nhi Tran	To: Turner Construction Compan G	ary Krutsch	Answered By:	Adamson Asso	ciates, Inc Geo	rge Metzger
Co-Author: Balfo	our Beatty Infrastructure, Inc.	Ural Yal						
REQUEST	:		SUGGESTION:		ANSWER:	Accept Sugg	jestion:	
Reference Approved	Sheet GT-5202 Detail 12, RFI T Rebar Shop Drawings	-0216, and			ARUP Respons	se:		
The approv 241' deep have alrea depth after and 252.7' with the ins	ved rebar cages per RFI T-0216 shafts. Rebar cages for shafts C dy been released and fabricated arilifting of shafts C-2 and M-2 h respectively. Please advise on h stallation of the cages for shafts	are sized for -1 and M-1 . Note that the have been 247' how to proceed C-1 and M-1			Detail 12/GT-52 placed up to 1'- top of concrete extensions sha If the top of the top of the conc	201 requires the -0" below the to is shown on G Il be spliced as fabricated cag rete, no bar ext	e reinforcing ste p of the concret T-5201. Longitu needed to achie e is within 3'-0" ensions are req	el to be e. The dinal bar eve this. of the uired.
and with th these shaf	te fabrication of the rest of the ca ts extend beyond planned depth.	ages assuming			The 24" tie spa the setting cage bar extensions.	cing shown on e (Drawing SC1	the shop drawin ) is acceptable	igs at at the



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T-0240	BSE - Demo A	T&T Duct on Natoma at	Second	Closed	09/29/2011	10/09/2011	10/07/2011	Potential	у 🗌
From: Webco	or Construction LP	Nhi Tran	To: Turner Construction Cor	npan Gary Krutsch	Answered By	AECOM Tech	nical Service Eric	Zagol	
Co-Author: Balfour	r Beatty Infrastructure, Inc	c. Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference SI Section 31 50 It was discov demo for the CR T-005B) i line servicing never fully ab attached ema never notified due to the re- Project. Please confir in the area. C Wall on line 2 abandonmen any project d	heets U-1110, D-2231, AS 6 13, attached email and rered on 9/27/2011 while p revised shoring wall align issued in ASI 15 that the g the demolished buildings bandoned by AT&T. Accc ail from Huan Huynh of A' d that these lines needed vised shoring wall alignme rm when CDSM Shoring V Currently, BBII is installing 1 and the confirmation of t is required as quickly as lelay.	SI-015, Specification BBI RFI 222 performing the utility ment (TG03 BSE abandoned AT&T s on Natoma was ording to the T&T, AT&T was to be abandoned ent of the Transbay Wall can be installed the CDSM Shoring the line s possible to avoid			AT&T has de- telecommunic Proceed with following dem contract docu	energized the a cations lines refe CDSM wall instr olition of existin ments and exec	abandon erenced in the RF allation at this loc g utilities per RU cution of a USAR	il. ation 5.	
issue									
T-0241	BSE - Brick Wa	all at GL 2, J Line In Cor	nflict With The CDSM Wall	Closed	09/29/2011	10/09/2011	10/07/2011	Potential	У
From: Webco	or Construction LP	Nhi Tran	To: Turner Construction Cor	mpan Gary Krutsch	Answered By	:Turner Constru	uction Comr Jack	Adams	
Co-Author: Balfour	r Beatty Infrastructure, Inc	c. Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Sp meeting minu	pecification Section 31 56 utes and photos	313 and attached			1. The 580 Ho from the corne	oward courtyard er because it is	fencing can be r owned by TJPA a	emoved and	



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					6. The perma property as s installation at	nent fence will b oon as possible the corner.	e reinstalled on T after CDSM wall	ſJPA	
					CR T-5B excl issued under	uded this scope forthcoming CR	. These costs will	be	
T-0242	BSE - Becho's R	equest For Rock Clas	sification Data	Closed	09/29/2011	10/09/2011	10/11/2011	Potentia	lly
From: We	ebcor Construction LP	Nhi Tran	To: Turner Constru	ction Compan Gary Krutsch	Answered B	:Webcor Const	ruction LP Nhi 1	ran	
Co-Author: Ba	Ifour Beatty Infrastructure, Inc.	Ural Yal							
REQUES	ST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference 29, and a	ce Sheet GT-2201, Specificatior attached letter from Becho	n Section 31 63			ARUP Respo	nse:	<b>J</b>		
Please fi that requ	nd attached BBII's sub-contract lests the following information:	tor Becho's letter			Regarding the to be drilled a indicated on p	e question: "Plea nd excavated to plan GT-5201": t	ase advise, if sha new depths not he specifications	fts are note	
" during depth of	g the drilling of buttress shaft M approximately 250 feet below g	l4 rock socket, at a pround level, Becho			field condition assessment of	is based upon T of actual condition	JPA's Represent	ative¿s	
a depth c drilling, fi attached of 9.30 a immediat	of 250 feet, Becho's steel grab, ractured under the increased st photos. The incident occurred im and 10.00 am on Wednesda tely notified W/O and called for to discuss the bardness of the	used for rock ress. Please see between the hours y, 09.28.11. BBII an emergency rock formation and			The Geotech Report, includ references, p Contractor to	nical Data Repo ded in the Contra rovide sufficient plan and execu	rt and the Prototy act Documents as information for th te their work.	pe Test s e	
the statu and acce sufficient following	s of drilling. During the meeting epted the 250 foot depth to be a t to stop the rock socket drilling. Arup's confirmation at 11.09 ar	I, Arup confirmed Idequate and . Immediately, m, Becho							
proceede bottom o total dow minutes,	ed to clean the remaining rock of f the shaft and prep for air lifting in time recorded as a result of the not including adjustments of ai	debris from the g operation. The he incident is 68 rlift, tremie pipe							
and repa Please a new dept need to r equipme	ir of grab. dvise, if shafts are to be drilled ths not indicated on plan GT-52 mobilize additional non-convent nt to successfully achieve depth	and excavated to 201. Becho will ional drilling hs currently being							

directed to drill to (255 ft). In addition, Becho requests that a soil report be generated containing borings pertaining to



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2 c	one 4 Buttress drilling operations which lassification, strength and location."	include rock							
T-0243	BSE - Emergency	v Exit at 530 Howard GL 10 J		Closed	09/29/2011	10/09/2011	10/10/2011	Potentiall	у
F	rom: Webcor Construction LP	Nhi Tran	To: Turner Construction Compan	Gary Krutsch	Answered By:	Turner Constru	uction Comr Kevir	n Chiu	
Co-Aut	hor: Balfour Beatty Infrastructure, Inc.	Ural Yal							
F	EQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
F	Reference Specification Section 31 56 13	3 and attached			Coordination w cannot be obta	rith 530 Howard	d property manag pecific dates. On	ement ce the	
F 5 a fr 1 ii p	Pre-trenching and CDSM wall installation 30 Howard building will have an impact ccessibility to the emergency exit at tha or the pre trench and the CDSM wall ins roceed past this location, the rear exit m -2 days for each operation. The attache adicates the location of the emergency e roximity to the CDSM wall.	at the rear of the on the t location. In order tallation to safely hust be closed for d drawing wit and its			(jpadavich@tco	co.com 510-45	3-8598).		
F 	Please confirm if this is acceptable. BBII neet with the property owner to coordina	is available to te this work.							
T-0244	BSE - Request fo	r Additional Geotechnical Da	ata Pertaining To Zone 4	Closed	09/29/2011	10/09/2011	10/11/2011	Potentiall	у
F	rom: Webcor Construction LP	Nhi Tran	To: Turner Construction Compan	Gary Krutsch	Answered By:	Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Aut	hor: Balfour Beatty Infrastructure, Inc.	Ural Yal							
F	EQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
F 6	Reference Sheet GT-2201 and Specifica 3 29	tion Section 31			ARUP Respon	se:			
F	Please address the following information BII's sub contractor Becho Inc.:	request from			The elevation of indicated by the Report. It is for include the reg	of the bedrock i e contour plan this reason the uirement: "Exc	s highly variable in the Geotechnic at the specificatio avation and drillir	as cal Data ins ing	
" e s v	for each of the shafts completed and onstruction, Becho has excavated deep levations shown for boring logs. Becho amples, boring logs, torque requirement alues, and rock strengths be provided for	under er than the s requesting soil :s, skin friction or these depths.			equipment: sha power, torque, temporary casi drawings, exca diameter and to	all have adequa and down thrus ing to the depth wate a hole of the o a depth of 20	ate capacity, inclu st to advance the is shown on the both the maximur percent beyond	nding m the	



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(Cu	urrently 254 ft below elevation +14.00)				depths shown of	on the plans."			
Thu up Ge Fel Mo by for Re	e requested information is similar to w to the depths of 234 and 237.5 feet in extechnical Data Report" prepared by bruary 2010, and "Prototype Test Prog onitoring During Construction of Drilled Arup dated May 2010. Becho request drilling beyond the depths specified in port."	that was provided the "Final Arup dated gram and Shafts" prepared s this information the Geotechnical							
T-0244.1	BSE - Becho Rec	quest for Buttress Field Log	S	Closed	03/23/2012	04/02/2012	04/24/2012	Potential	ly 🗌
Fro	m: Balfour Beatty Infrastructure, Inc.	Ural Yal	To: Turner Construction Compa	an Gary Krutsch	Answered By:	Adamson Asso	ciates, Inc Geor	ge Metzger	
Co-Auth	or:								
RE	QUEST:		SUGGESTION:		ANSWER:	Accept Sugg	jestion:		
BE from spe rep sar the - S - F	CHO formally requests to obtain the E m every ARUP field engineer/geotech presentative involved with the Buttress ecifically, field notes/logs from engine presentatives involved with the field da mple collection and inspection process e Daily Field Logs for the following date reptember 12th 2011 through October ebruary 22nd 2012 through Today	Daily Field Logs /geologist, TJPA Shaft work. More ers and TJPA ta collection, s. Becho requests es: 20th 2011			The TJPA Rep attached to the posted to and a	resentative Dail Field Observat available in Con	ly Field Logs are ion Reports that structware.	are	
T-0244.2	BSE - Becho Rec	uuest for Buttress Field Loo	s Follow-Up	Closed	04/18/2012	04/28/2012	04/24/2012	Potential	Iv 🗔
Fro	m: Webcor Construction LP	David Fields	To: Turner Construction Compa	an Garv Krutsch	Answered By:	Turner Constru	ction Comr Garv	Krutsch	
Co-Auth	or:			,,					
RE Aft W/ bet of t	<b>EQUEST:</b> The reviewing Constructware as directe O is unable to locate ARUP field repo tween 9/12/11-9/30/11. Please advise the aformentioned documents.	d in RFI T-0244.1; rts for the dates as to the location	SUGGESTION:		ANSWER: Per Arup on 04 October 1, 201 documenting th through these f	Accept Sugg /10/2012, "The 1. Prior to that, he project progra ield reports."	first report begin first report begin Arup was not ess and deficient	s on cies	



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T-0245	BSE - Ground Co	nduits detail for PG&E ph	ase 2 works on First Street	Closed	10/05/2011	10/15/2011	10/12/2011	Potential	ly 🗌
From: Webcor Cons	struction LP	Masashi Kojima	To: Turner Construction Compan	Gary Krutsch	Answered By	AECOM Techr	nical Service Eric	Zagol	
Co-Author: Balfour Beatty	y Infrastructure, Inc.	Ural Yal							
REQUEST: Reference: CR No. Utility Relocation For the installation of conduit between the conduits required? details/requirement	T-017 - BSE - First St of the PGE 6" and PG e CDSM walls, is grou If so, please provide g s.	reet Phase 2 E 4" GRS nding of the PGE rounding	SUGGESTION:		ANSWER: Response from Yes and at boo suggestion, we jumpers of the bare copper se can be either se jumper. All th brought togeth copper wire. be routed and support the transition If it is not posse the AX and EX	Accept Sug n PG&E (attach th ends of the c e would propose AX and EX exp olid stand #6 co soldered or crim the #6 ground wi ther and connect The 2/0 copper cadwelded to the affic bridge. sible to attached k grounding jum	gestion: ned) is as follows onduits. As a to tie into the b bansion fittings w opper wire. The # opped to the bond res would then b ed to a single ba ground wire wou he nearest I-bear d the #6 copper w opers, we will req t can be used in	: vith a 6 wire ng e re #2/0 ld then m that vire to uire a o wet or	
 T-0246	BSE - PG&E Swee	ep Radius Requirements		Closed	dry location. One grounding asking for grou in case one gr 10/10/2011	g point is usually unding at both e round is accider 10/20/2011	y sufficient but I ands of the steel ntally cut.	am conduits <b>Potential</b>	ly 🗌
From: Webcor Cons	struction LP	Masashi Kojima	To: Turner Construction Compan	Gary Krutsch	Answered By	Turner Constru	uction Comr Kevi	n Chiu	
Co-Author: Balfour Beatty REQUEST: Reference CR T-01 (The attached draw Verizon Coordinatio radius elbows and b 6ft radius elbows ar requirements for 6" utility on First Stree	y Infrastructure, Inc. 7. ings provided at the P on Meeting on 9/29/20 bends. PG&E standard of bends. Please conf conduit installation for t.	Ural Yal G&E / BBII / 11) refer to 10ft ds refer require irm radius r the Phase 2	SUGGESTION:		ANSWER: Per PG&E (se radius.	Accept Sug	gestion:	10ft	
T-0247 From: Webcor Cons	BSE - Proposed C	Corrective Action Plan for Masashi Koiima	Sunken CDSM Soldier Piles To: Turner Construction Compan	Closed Garv Krutsch	10/10/2011 Answered Bv	10/10/2011	10/12/2011	Potential	ly 🗌

Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal To: Turner Construction Compan Gary Krutsch

Answered By: Adamson Associates, Inc George Metzger



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should be provided in a submittal, not an RFI. GC to

conform to comments in RFI 247.

## 30100 - Transbay Transit Center Project

Number Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
REQUEST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
<ul> <li>Please address the following information request BBII's sub contractor DND:</li> <li>"As of to date, the following three soldier piles habelow grade during their placement into the CDS - Beam # 154 installed on 09.08.11</li> <li>Beam # 631, installed on 09.29.11</li> <li>Beam # 602, installed on 10.01.11</li> <li>DND was unable to recover those piles and set to their plan elevations without disturbing the adjace that were already in place. To mitigate this issue proposes to conduct the below course of remedient 1) Wait until mass excavation commences. Excercation the locations, and determine the top elevations without disturbing the adjace the sunken beams.</li> <li>2) Provide this information to the Engineer for excercation. Possible corrective measures are: <ul> <li>a. No action necessary. The strength of the CI material may be sufficient to support the unreinficepth.</li> <li>b. Install lagging between the adjacent beams top of the sunken beam.</li> <li>c. Splice a beam on the top of the sunken beam abackfill with low strength concrete.</li> </ul> </li> </ul>	t from ave sunk SM wall. them to ent beams by DND al action: avate with vation of valuation. er's DSM broced above the m and al action ures are		The proposed Contractor sha least four wee evaluation by t shall assume a sunken beam waling and strr specific and sl location of the	sequence is no all submit a corr ks prior to the s the TJPA's Rep a range of deptl and shall descr utting plan. The hall include a dr sunken beam.	t acceptable. The ective action plan tart of excavation resentative. The p is to the top of the ibe the impact on plan shall be loca awing indicating t	at for blan the thion- he	
T-0247.1 BSE - Proposed Correct	ive Plan for the following Sunken Solider Piles	Closed	01/10/2012	01/20/2012	01/12/2012	Potentia	lly
From: Webcor/Obayashi Joint Venture Kirl	K Nielsen To: Turner Construction Comp	an Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Georg	ge Metzger	
REQUEST: Reference: Attached Corrective Action Plan	SUGGESTION:		ANSWER: The written RF not acceptable	Accept Sug I above is not a . The content	gestion: a clear question at n the attached do	nd is cument	

Message: Please find attached BBII's proposed corrective plan for the following sunken solider piles:



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1. Pile #59, 2. Pile #154 3. Pile #602 Please app	Notice #47, Vela Issue #J-0 4, Vela Issue #J-00001. 2, Vela Issue #J-00008. rove and or comment.	0007.							
T-0248	BSE - First St. V	erizon Utilities Relocation		Closed	10/10/2011	10/20/2011	01/04/2012	Potential	ly 🗌
From: Webc	cor Construction LP	Masashi Kojima	To: Turner Construction (	Compan Gary Krutsch	Answered By	Transbay PMP	C Roge	er Rothenbur	ger
Co-Author: Balfor	ur Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugo	estion:		
Attached is and located originally so allow for CE bridge cons save time, t their curren on the attac the Verizon temporary b will be reloc CDSM shor	an as-built sketch of Verizor l along First St. on 10/4/10. T cheduled to be relocated duri DSM installation and subseque truction. BBII has learned the the TJPA is considering leaving t locations and working aroun ched section of the First St. to utilities will be in direct conflor oridge structure. Please confi- cated as planned to allow for ing wall and temporary bridg	n utilities potholed These utilities were ng phase two to Jently temporary at in an effort to ing the utilities in nd them. As shown emporary bridge, ict with the irm these utilities installation of the le.			the lateness of installing CDS delays in start Verizon so tha longer have to place to save Street." Solcom has a of 2.29.2012.	f Verizon relocated. If f Verizon relocat M wall with Veriz ing PGE is now at PGE work gov install last CDS time on bridge ir start date of 1.0	is KPI was field ion and the idea zon still in place. taking longer tha erns duration an M wall with Veriz stallation on Firs 3.2012 and a fin	of Due to in d we no zon in st ish date	
T-0249	BSE - Pavemen	t lights at the rear of 580 Ho	oward	Closed	10/10/2011	10/20/2011	10/12/2011	Potential	ly 🗌
From: Webc	cor Construction LP	Masashi Kojima	To: Turner Construction	Compan Gary Krutsch	Answered By	Turner Constru	ction Comr Kevir	n Chiu	
Co-Author:									
REQUEST: Reference S	Specification Section 31 56 1	3 and CR T-005B.	SUGGESTION:		ANSWER: Access to 580 time.	Accept Sugg Howard cannot	<b>jestion:</b> be obtained at t	his	
boundary fe located 4ft a demolished investigatio	ence at the rear of 580 Howa away from the brick wall (whi ) as shown the attached pho n indicates that the lights are	rd. The lights are ch is due to be tos. A preliminary e de-energized.			See attached, which shows t lights have be unknown entit	"RFI T-0249 Fie hat as of 2PM of en removed and y.	eld Photos 11 Oc n 11 OCT 2011 t wires capped by	ct 2011,'' :he y an	



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Please confirm system will be energized.	n that access to the propert available to confirm that th	y's electrical e lights are de-			Contractor to alternate mea	verify status of end	electrical lines by		
T-0250	BSE - Soil Classif	ication of South Wes	t Area of the Work Site	Closed	10/13/2011	10/23/2011	11/03/2011	Potentia	lly
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction Co	ompan Gary Krutsch	Answered By	:Turner Constru	uction Comr Kevin	Chiu	
Co-Author: Balfour	Beatty Infrastructure, Inc.	Ural Yal							
REQUEST: Reference Sp Rollo site mar	ecification Section 01 13 50	and Treadwell &	SUGGESTION:		ANSWER: Treadwell and	Accept Sug Rollo response	gestion:		
BBII needs the lot between Na between Gridl Please see the Mitigation Mag question.	e soil classification listed an atoma Street and Howard S ine A to Gridline 10. e attached Treadwell & Roll o of the Soil Classification fo	d mapped for the treet, and o's Site or the area in			"See attached up to 4' of Sta	l site plan, figure te of California l	e 1. Where encou hazardous waste o	intered, exists."	
T-0251	BSE - Drawings T	o Coordinate Trestle	Pile Locations	Closed	10/13/2011	10/23/2011	10/14/2011	Potentia	lly
From: Webcor	/Obayashi Joint Venture	Masashi Kojima	To: Turner Construction Co	ompan Gary Krutsch	Answered By	Turner Constru	uction Comr Kevin	Chiu	
Co-Author:									
REQUEST: During the 10/ statements we incrementally coordinate tre- not received a with the direct If such docum entire series to & P.	/12/11 trestle submittal revie ere repeatedly made with re complete underground drav stle pile locations. As of 10 iny future package documer ion to coordinate with the Tr ients are available please m o include, however not limite	ew meeting, gard to vings in which to /13/11, W/O has nts accompanied G03 documents. ake available the ed to, A, S, M, E,	SUGGESTION:		ANSWER: The question the question a	Accept Sug being asked is und resubmit the	gestion: unclear. Please re ∋ RFI.	ephrase	
 T-0251.1	BSE - Drawings T	o Coordinate Trestle	Pile Locations	Closed	10/14/2011	10/24/2011	11/03/2011	Potentia	lly 🗌

To: Turner Construction Compan Gary Krutsch

Answered By: Adamson Associates, Inc George Metzger



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Number	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
<ul> <li>RFI T-0251 original inquiry: During the 10/12/11 trestle submittal review meeting, statements were repeatedly made with regard to incrementally complete underground drawings in which to coordinate trestle pile locations. As of 10/13/11, W/O has not received any future package documents accompanied with the direction to coordinate with the TG03 documents. If such documents are available please make available the entire series to include, however not limited to, A, S, M, E, &amp; P.</li> <li>RFI T-0251.1 Clarification to RFI T-0251: The TG03 package was executed with limited documents in which to coordinate future packages with. Please provide all documents the TJPA requests BBII coordinate the TG03 package with and to.</li> <li>As it pertains to structural columns (round/pill/rectangle/ect.) please provide the minimum</li> </ul>			<ul> <li>"See attached PDF files SKS-0130 throug for exclusion zones for trestle and pin pile per requested additional TT review. W/O constructability. Submit updated pile loca review.</li> <li>Note:</li> <li>Penetrations through the Mat slab shall no the hatched zones in the attached sketche hatched zones at and near columns and a Any Lower Concourse level penetrations ' on either side of primary column lines (e. 35, V, W, X) will impact construction of primary</li> </ul>					
As it pertains (round/pill/re clear distanc so BBII may	s to structural columns ectangle/ect.) please provide the minimum se to trestle pile penetrations in the mat slab coordinate.			35, V, W, X) will impact construction of primary concrete moment frame beam elements; coordinate with W/O. Block outs in moment frame beams shall not encroach into the hatched zones in the attached sketches.				
Should there please indica	e remain any ambiguity in the inquiry above ate the nature of misunderstanding.			Coordinate int secondary fra	terruptions of lo ming beam eler	wer concourse sla nents with W/O.	os and	
				24" Diameter and 21'-3" eas extending bety level.	columns locate st of GL 23 alon ween mat level	d 21'-3" west of GI g GL D.8 and E.2, and lower concour	- 23 se	
				Verify constru 23 in relation coordinate wit	ction sequence to cross lot brac h W/O.	of Light Column a ing and re-bracing	t GL ;;	
				Penetrations t be placed clos penetrations, adjacent pene interruptions c its final condit pile 22 and tre 103 (GL 10), a piles 13 and 1	that interrupt Ma ser than 3xDia c with Dia = large etrations. Penet of mat reinforce ion. Note espec estle pile 107 (G and temporary b 4 (GL 34)."	at reinforcement sh clear spacing betw r diameter of two rations are those of ment in the structu ially conflict betwe L 9), trestle piles of pridge piers close t	all not een causing re in en pin 18 and o pin	

Adamson Associates Note: "The additional A, S, and



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				MEP documents you requested are currently in design progress and the information is not availble at this time."							
T-0251.2	BSE - Drawing	gs To Coordinate Trestle	Pile Locations - "No Pin Pile Zone"	at Lowe Closed	11/04/2011	11/14/2011	11/14/2011	Potentia	lly		
Co-Author:		INNI I ran	Io: Turner Construction Con	npan Gary Krutsch	Answered By	Adamson Ass	ociates, Inc Geor	rge Metzger			
REQUEST: On 11/3/11 W// Trestle Criteria that PMPC will pine pile zone" similar to the S response. Also to provide crite pin piles/trestle Package. Please confirm	O was informed by PM Discussion meeting w request Thornton Tom sketches for the Lowe Sketches provided throu o, PMPC is requesting ria of concrete connec e piles for the future Be	IPC during an Access ith URS and W/O hasetti to provide "no er Concourse Level ugh RFI T- 251.1 Thornton Tomasetti tion details around low Grade Concrete	SUGGESTION:		ANSWER: TT Response The response sketches inclu- stated in the r Concourse fra the block out and methods of the block o along the colu- The primary n Concourse level drawings. If a poured due to bracing eleme will need to re is re-cast and Alternatively, temporary bra	Accept Sug	1 and the associa Lower Concourse s to coordinate th with Webcor. Alt acourse level is a er clarifies the imp e primary moment ted below: inders at the Lowe a brace when the oved as shown in hent frame girder e trestle piles, the y adjacent to that ntil the blocked-os sign strength. Jish another meth t for review. around pin piles/tu w Grade Package	ated e. As le Lower hough means blication it frames er e the GT is not ose girder ut beam hod of restle e.			

T-0251.3

From: Webcor Construction LP

Nhi Tran

To: Adamson Associates, Inc.

BSE - Drawings To Coordinate Trestle Pile Locations - "No Pin Pile Zone" at Lowe Closed

Associates, Inc. George Metzger

11/28/2011 12/08/2011 12/13/2011 Potentially

Answered By: Webcor Construction LP David Fields

**Co-Author:** 



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REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference F	RFI #T-0251.2				See attached	SKS-0138 throu	ugh SKS-0178 (4	1 total)	
So W/O ma 0251.2 plea configuratio requirement This informa internal brac	y coordinate as requested in se provide a drawing that dep ns, dimensions, and minimur is, for both the platform and c ation is required to locate tres cing struts.	RFI response T- picts the column n clearance concourse levels. stle piles and		sketches are in pr e regarding minin	rogress, num				
T-0252	BSE - Buttress R	ebar Cage Length Adju	stment	Closed	10/19/2011	10/29/2011	10/24/2011	Potential	ly
From: Webc	or Construction LP	Nhi Tran	To: Turner Construct	ion Compan Gary Krutsch	Answered By	Adamson Ass	ociates, Inc Geor	rge Metzger	
Co-Author: Balfou	ur Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference F	RFI #T-0216, #T-0239, Sheet	GT-2201,			ARUP Respor	ise:			
Per the resp length of ref are deeper to cannot be k Due to this fabricate ca fabricate all	ponse to RFI T-0239, BBII ne par cages to accommodate b than 240'. The exact length o nown until the drilling of the a uncertainty, and the long lead ges with varying lengths, BBI rebar cages to a pre-extende	eds to extend the buttress shafts that of the rebar cage adjacent shaft. d time required to II proposes to ed length of 260'.			The proposal i Detail 12/GT-5 placed up to 1 top of concrete bar extensions this (as noted the fabricated concrete, no b	s acceptable w 5201 requires th '-0" below the t e is shown on C s shall be splice on the sketch; cage is within 3 ar extensions a	ith the following r ne reinforcing ster op of the concret GT-5201. Longitu ed as needed to a attached). If the 3'-0' of the top of are required.	notes. el to be e. The dinal ichieve top of the	
Once the de length of the of the rebar The length of consists of 2 186'. The le consists of 8 described a and the orig and the "set	epth of the adjacent shaft is k e rebar cage will be adjusted cage and the CSL tubes to th of the bottom "structural cage 24 Ea. vertical rebars will rem ngth of the top "setting cage" 8 Ea. vertical rebars will be a bove. Please refer to the atta inal shop drawings for the "st tting cage" details.	nown, the final by cutting the top he desired length. " section that ' section that djusted as ached documents tructural cage"			The 24" tie sp the setting cag bar extensions	acing shown or ge (Drawing SC 3.	n the shop drawin (1) is acceptable a	gs at at the	
BBII propos additional co payment pe	es to accommodate this char ost to TJPA beyond the bid it r drilled shaft lengths.	nge at no em quantity							
Please advi	se, if it is acceptable.								



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T-0253	BSE - Trestle Des	sign Criteria Confirma	ition	Closed	10/19/2011	10/29/2011	11/01/2011	Potential	ly 🗌
From: Webcor Cons	struction LP	Nhi Tran	To: Turner Construction Co	mpan Gary Krutsch	Answered By	:Turner Constru	uction Comr Kevi	n Chiu	
Co-Author: Balfour Beatty	y Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Attachm Package and attach	ent 3 of Exhibit A of the hed memo from PB&A	ne TG03 Bid			PMPC repsor	nse per Roger R	othenburger, 11/	01/11:	
Pursuant to the tres 2011, Balfour Beatt clarification regardin the Temporary According As the only Contract Attachment 3 of Exit the following instruct In the second senter following statement the Access Trestle, applicable standard sentence states, "A Bridge Specification 01 53 13, shall appl	stle design meeting he y Infrastructure Inc.' (I ng their interpreted de ess Trestle t document regarding hibit A of the TG030 E ctions: ence of the second pa is made, "For the des the Contract Docume I shall be referred to." Il requirements in the n in the Contract Docu ly to the Access Trest	eld on October 12, BBII) requests sign criteria of the Trestle, Bid Manual has ragraph, the sign criteria for ents and The next Temporary iments, Section le."			<ul> <li>"1. The RFI p</li> <li>"review the pr or not BBII's of requested at 1</li> <li>request clarify of conflict bet</li> <li>Specification</li> <li>2. As for the</li> <li>"Exhibit A - Ation in the Tempor Documents, S</li> <li>Access Trestly Section 01-53</li> <li>Performance seismic design (earthquake w 50 years),</li> </ul>	brocess is not the ovided information design criteria is the October 12, ying instructions ween Exhibit A - Section 01-53-1 design criteria, the ttachment 3" is of rary Bridges Spe SECTION 01 53 le." This would in B-13 Part 1.3.A.1 - Design Loads) in load for 475 you with 10% probab	e appropriate ve on and confirm v appropriate." Th 2011 meeting wa to specific perce Attachment 3 an 3 (Temporary Br he fourth senten explicit; "All requ ecification in the 13, shall apply to nclude the requir (Temporary Brid stating the use ear earthquake ility of being exce	nue to whether e RFI as to options nd idges) ce of irements contract o the ement in dges - of eeded in	
Attachment 3 goes design load condition & barrier) that contre Temporary bridge S more "Trestle Spect the interpreted func public use, of this ty and its Engineering design) described in document was inclu- submittal; however of the explanations. Please review the p whether or not BBII Temporary Access	on further to provide v ons and structural eler radict the requirements Spec Section 01 53 13 ific" requirements of A tion, being for constru- ype of temporary work Team arrived at the of n the attached memo- uded with BBII's origin for this RFI BBII has of provided information a 's design criteria is ap Trestle.	very specific ments (i.e. Deck s of the B. Based on the Attachment 3 and loction use and not is structure, BBII criteria /(basis of from PB&A. This al design expanded some nd confirm propriate for the			<ol> <li>Among oth "wheel stops, listed in the bi- requirements contradictory.</li> <li>Attachmer lateral bracing defer to section</li> <li>PMPC rec constructing present as many approval for Z Access Trest</li> </ol>	her criteria, wood hand rails, spec alance of Attach in Section 01-53 ht 3 does not add g, among other of on 01-53-13. (Te ommends a sma parties to discus y requirements a cones 1 and 2 ar e work in a time	d decking materia cial working acce ment 3 modify th 3-13 and are not dress crash barri criteria, which wo imporary Bridges all group meeting is the technical d as possible for Bl d proceed with th ly manner."	al, ss, etc ne ers or uld s) g of the etails to BI to get he	
T-0253 1	BSF - Trestle Des	sian Criteria Follow-U	n	Closed	11/21/2011	12/01/2011	12/02/2011	Potential	

From: Webcor/Obayashi Joint Venture

Nhi Tran

Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal

**REQUEST:** 

SUGGESTION:

To: Turner Construction Compan Gary Krutsch

Potentially 11/21/2011 Answered By: URS Corporation David Fyfe

ANSWER: Accept Suggestion:



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Reference RFI#T-0253, Attachment 3 of Exhibit A of the TG03 BSE Bid Package, Specification Section 01 53 13, and attached memo from PB&A

Follow up to RFI T-0253 and the meeting held 11/16/11

As noted in the 11/16/11 meeting, the cross lot bracing "struts" are supported by the Trestle substructure and analysis requires limiting trestle deformations to be compatible with the allowable strut deflections (approximately 2"). As a result the "push over" analysis as required by the AASHTO Seismic Design Criteria "SDC" (requirement of bridge spec 01 53 13) is not applicable. This was discussed in detail during the 11/16 meeting and it was concurred that due to unique structural configuration and deflection requirements, an alternate analysis method other than the SDC would be required. Discussions were had that a site specific elastic analysis using the 475 year seismic loads that is controlled by the deflection limits of the cross lot bracing would be necessary. Please confirm that a "push over" type analysis of SDC will not be required for the trestle and that the attached detailed Design Criteria (and analysis method) is acceptable.

#### (W/O added clarification)

BBII believes the site specific analysis would demonstrate the trestle substructure will not deform greater than 2" however the trestle superstructure will deform greater than 2".

If the Access Trestle is designed to resist the full 475 year earthquake design requirement with all response being elastic (R=1), then the Access Trestle system is not subjected to inelastic deformation for the design event. If the design is additionally shown to be capable of sustaining significant overload (no connection failures, no weld failures, no member failures, remaining stable under loading corresponding to at least two times the required design load, or corresponding to a ductility demand requiring R=2). then a pushover analysis is not necessary to verify performance. If there are questions raised regarding if this is sufficient, then the response could be demonstration that the system remains fully stable without connection or member failures at a load level corresponding to the deterministic earthquake load corresponding to the maximum event capable of being delivered by the earthquake fault system at the project location. If the design presented is in accordance with the above, then URS would be able to assist with technical engineering discussions to validate this design approach to the City of San Francisco during the building permitting process.

Further clarification: The procurement specification requires an integrated model capturing interaction between the Cross Lot Bracing and the Access Trestle, note the Cross Lot Bracing is not a component against which the trestle reacts but the Cross Slot Bracing delivers load to the Access Trestle. This behavior must be captured with sufficient accuracy and within all project criteria.

If another alternative is proposed that meets all required design criteria at all structure elements, including contractor teams identified maximum allowable deflection of 2 at the Cross Lot Bracing, URS takes no objection to the contractor pursuing this potential design alternative.

Closed

sed

10/20/2011 10/30/2011 11/01/2011 Potentially



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Number Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
From: Webcor Construction LP	Nhi Tran	To: Turner Construction Comp	oan Gary Krutsch	Answered By	Adamson Ass	ociates, Inc Geor	ge Metzger	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Specification Section 31 56 13 sketches from PMPC	3 and attached			ARUP Respor	se:			
W/O received the modified CDSM Install Verizon lines at First St. without the reloc from PMPC as the attached.	ation plan for ation of the lines			The minimum in specificatior depth on each	overlap of colu section 31 56 side of the obs	mns and panels of 13 shall be satisf struction.	lefined ied full	
Please confirm the plan is acceptable for Wall Designer (ARUP).	CDSM Shoring			The Contracto lowering the V lines, have not Contractor's re	r's means and erizon lines and been reviewed sponsibility.	methods, e.g., rig d protecting the V d as this is the	type, erizon	
				Since the RFI assume that th has reviewed a methodology,	was submitted the subcontractor and approved to including the "F	by the Contractor or doing the work, he proposed Plate Sealing Deta	, we DND, ail".	
				The efficacy the demonstrated applied to the flange rather the when it is time waterproofing.	e "Plate Sealir in the field. If u excavation - fa nan behind the to apply the pe	ng Detail" will nee sed, the plate sho ce of the steel bea flange and remover ermananent	d to be buld be am red	
T-0255 BSE - Verizon Sn	acing Requirement	on First Street (Phase 2 Utility Installa	tion) Closed	10/21/2011	10/31/2011	10/31/2011	Potential	
From: Webcor Construction I P	Nhi Tran	To: Turner Construction Com	an Gary Krutsch	Answered By		nical Service Eric	72001	
<b>Co-Author:</b> Balfour Beatty Infrastructure. Inc.	Ural Yal						Lagor	
REQUEST		SUGGESTION			Accent Sug	aestion:		
Reference		000010110111		Verizon has pr	epared prelimi	nary design drawi	ngs for	
BBII have commenced the PG&E Phase	2 installation on			their Phase II v coordinating w	work and is in t ith PG&E.	he process of		
on the attached drawing. The attached dr to BBII in the field, please confirm this dr co-ordinated with the PG&E construction	utility indicated rawing was issue awing has been drawings.			As indicated o Phase II utility different propri	n RUP Sheet L relocations is s etor are to be s	J-4005, the intent such that utilities of separated by 1' m	of the of in.	
BBII require the following: - Provide a profile/section drawing indication clearances between PG&E and Verizon.	ting accurate			Coordinate wit to arrange a si Verizon's conf	h TJPA's Field te meeting with guration.	Representative ( Verizon to discu	Furner) ss	

- Include (Verizon) Trench dimensions, on First Street for the phase 2 installation.



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- Site meet Verizon co	ing with Verizon representa	ative to discuss							
T-0256	BSE - CR T-01	8 Design Omissions		Closed	10/21/2011	10/31/2011	11/03/2011	Potential	ly 🗌
From: Web	cor Construction LP	Masashi Kojima	To: Turner Construction Compa	n Gary Krutsch	Answered By	Turner Constru	uction Comr Jack	Adams	
Co-Author:									
REQUEST	:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference CR T-018					<ol> <li>Emergency egress signage is not required by Contractor.</li> </ol>				
<ul> <li>Neither the original albeit incomplete CR T-018 dated 9/21/11 or the flurry of subsequent email clarifications furnished the following design omissions required to complete the CR T-018: <ol> <li>Emergency egress signage requirements?</li> <li>Lighting: Location, lumen, schedule, and if emergency lighting is required?</li> <li>Gates &amp; crash bar requirements?</li> <li>Although the driveway design was not provided until 10/20/11, no dimensions were provided and there are proximity conflict(s) with the fire hydrant relative to the vent</li> </ol> </li> </ul>				2. Lighting: Re installed unde to the Streetlig demolition dra approved by E Muros BLHP 4 along the nort Light #2 instal Owners of bot their exit doors	elocate the two p r EBi contract a ght circuit on Na wing D-1084 (N BLHP (Robert K 415 - 554-1688. h south K Rail fi I midway of K R h properties hav s.	portable street lig ind connected over atoma as shown IOTE This circuiti Kawano and Rom Light #1 install r ence @ 540 How ail fence at 580 H ve installed lightir	Ihts erhead on EBi ing was an midway <i>r</i> ard. Howard. ng at		
Please pro contractor	vide and or remove from so may complete the work.	cope so the			<ol> <li>Gates and 0 install 10 foot Private Proper</li> <li>Driveway co wide, with the Fire Hydrant a DPW standard</li> </ol>	Crashbars are r saw horse barri rty - No Trespas urb cut for 540 H centerline place and sidewalk fre d.	no required at this icade with signag ssing. Howard will be 12 ed midpoint betwo sh air vent. Curb	e e e feet een the o cut per	
 T-0257	BSE - Request	t to Sonic Caliper 20 feet fr	om Projected Bottom of Rock Sock	et Closed	4. Driveway cu wide, with the Fire Hydrant a DPW standard	urb cut for 540 H centerline place and sidewalk fre d. 11/03/2011	Howard will be 12 ed midpoint betwo sh air vent. Curb 10/31/2011	een the cut per Potential	

-0257	BSE - Request to Se	onic Caliper 20 feet from	Projected Bottom of Rock Socket	Closed	10/24/2011	11/03/2011	10/31/2011	Pot
From: Webcor Const	ruction LP	Nhi Tran	To: Turner Construction Compan	Gary Krutsch	Answered By:⊤	urner Construct	tion Comr Kevin C	Chiu
Co-Author: Balfour Beatty	Infrastructure, Inc.	Ural Yal						
DEOLIEST			SUCCESTION			Assess Courses	ation.	

#### REQUEST:

Please address the following information request from BBII's sub contractor Becho Inc .:

#### SUGGESTION:

ANSWER: Accept Suggestion:

George Metzger's response is limited to the first sentence of this RFI which states, "... Becho would like to start performing Sonic Caliper analyses within



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e p C t t C c p 6 a t t e F	Becho would like to start performing in halyses within 20 feet of the projected f levation of the shaft(s) to expedite the " rocess. In order to continue the Buttres peration without interruptions, Becho w le hours between 1am - 6am to perform aliper test. For example, if Becho antic ompletion of shaft at 10am, it would be erform the Sonic Caliper test during the am. This allows crews to prep, setup ar rlift process without having to wait for E to test the shaft(s) during normal hours of xpediting the "Drill, Place, Pour" process lease advise, if it is acceptable.	Sonic Caliper inal bottom 'Drill, Place, Pour'' s Drilling yould like to utilize n the Sonic ipates the beneficial to beneficial to hours of 1am - nd perform the Becho engineers of operation, thus ss.			20 feet of the shaft(s) to exp Acceptance of 1am-6am will Permit. Pleas activity on the  10/27/2011 - 1 Arup Respons This is accept	projected final b bedite the "Drill, of permissible wo come in the forr se be sure to inc Night Noise Pe George Metzger se: table.	ottom elevation o Place, Pour" proc rk activities betwe n of a TJPA Nigh lude the proposed rmit application.	f the æss." een t Noise d work	
T-0258	BSE - Demolition	Status of Pile Cap at	GI 33.5	Closed	10/27/2011	11/06/2011	12/09/2011	Potentia	
Fr	om: Webcor Construction LP	Nhi Tran	To: Turner Construction C	compan Garv Krutsch	Answered By	/:Turner Constru	Iction Comr Kevin	Chiu	
Co-Aut	hor: Balfour Beatty Infrastructure, Inc.	Ural Yal			-				
R	EQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
R S	eference Sheet D-2213 (attached) and ection 02 41 19	Specification			Existing pile of CR to follow	aps at GL 33.5	nave not been rer	noved.	
T c ir F n	he underlined sections of Notes A and aps have already been removed. This a cludes the pile cap at GL 33.5. owever, Note C implies that the pile ca ot removed.	B state that pile area clearly p at GL 33.5 was							
F b d	lease confirm that the existing pile caps een removed within the "triangle" line b rawing D-2213.	s have already oundary shown on							

T-0259

BSE - Request for approval of alternate backfill compaction inspection method Closed

From: Webcor Construction LP

Masashi Kojima

To: Turner Construction Compan Gary Krutsch

 10/31/2011
 11/08/2011
 12/01/2011
 Potentially

 Answered By: Turner Construction Comp Kevin Chiu

**Co-Author:** 



toward CB # 305,

Webcor/Obayashi Joint Venture

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REQUEST: Reference Sp With regard to compaction in contemporane proposed the #4225-000-00 methodology, to meet the co	ecification Section 32 1 to the areas of non-conforus pection i.e. FCR #TCE eous compaction inspection inspection methodology described 1238. Please confirm th assuming acceptable montract requirements.	2 17 prming backfill 3-00246: In lieu of tion by ISI, BBII has in attached letter e alternate esults, would suffice	SUGGESTION:		ANSWER: Accept Suggestion: The proposed methodology will be evaluated pending receipt of the test results. Submit test results for review and evaluation.					
T-0260	BSE - D.I. Inst	allation at Natoma Stree	t and First Street	Closed	11/01/2011	11/11/2011	11/08/2011	Potentia	lly	
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction	Compan Gary Krutsch	Answered By	AECOM Tech	nical Servic∈Eric	Zagol		
Co-Author: Balfour	Beatty Infrastructure. In	c. Ural Yal						U		
DEQUEAT	,,									
REQUEST:	aat 11 2010 and attache	d alcatab	SUGGESTION:			Accept Sug				
BBII carried o around the pe concern regar line on Natom The flow line o direction towa at the intersec which is appro decommission St and First S Noted during t to the decomr corner of Nato recorded appr accumulating Please note th decommission Street (see att	ut an investigation of the primeter of the BSE proju- ding the street elevation a Street between GL 10 directs surface water in urds First Street. The on ction of Natoma and Firs oximately +8.5" higher the ned CB located at the in the last rain fall, surface missioned catch basin a oma Street and First Str roximately 6" of standing at First Street and Nato nat existing catch basin ned during the new sew tached mark up drawing ends 2 options to control	e active catch basin ect; and has a in relative to the flow )-17. a North East ly active catch basin est Street is CB #305, than the currently itersection of Natoma e water was directed it the North East eet intersection, BBII g rain water ima intersection. was er installation on First g).			AECOM under decommission with D-2230 E Detail 1 states remain active perimeter sho The decommi In accordance Recommenda STORMWATI EROSION AN review storm contractor's m entering the s	and First st RUP documents erstands that the ned by BSE cor Detail 1 and not s (E) sewers, M until construction oring wall along issioned CB is we with the specific ation section (i.e ER POLLUTION ND SEDIMENT water control pla nethod of addres- ite in accordance	CB was tractor in accords RUP as claimed. H(s) and CB(s) and on of (N) CDSM northern end of si within the excavat ications reference 0.011560 V PREVENTION, CONTROL) subm ans indicating ssing storm water se with 011560 1.	ance D-2230 re to te. ion site. ed in the hit for 4.		
BBII recomme outside the BS A) modify the	ends 2 options to contro SE work area: flow line on Natoma Str	rain water from								



Webcor/Obayashi Joint Venture

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B) Ins latera or cor	stall a new catch basin and connect I connection CB # 305 to the comb nnect directly to the existing MH.	it to the existing ine sewer system,							
Pleas on Fir	e advise on TJPA method to preve rst Street.	nt water collecting							
T-0260.1 From:	BSE - D.I. Installa	ation at Natoma Street a Nhi Tran	nd First Street	Closed	11/28/2011 Answered By	12/08/2011	12/02/2011	Potentia	lly
Co-Author:	Balfour Beatty Infrastructure, Inc.	Ural Yal			· · · · · · · · · · · · · · · · · · ·				
REQU Refer RFI re inform BSE p install of BB be ins CB #3 BBII r basin the ne SSM	JEST: pence RFI #T-0260 and Sheet U-30 esponse T-0260 does not address to nation, to resolve the surface water project. BBII recommend a catch by led at the corner of Natoma and Fir II storm water control. The catch by stalled at the low point of Natoma S 305. request confirmation and approval to at the above location. Also confirm ew catch basin can discharge direc H#305.	12 (attached) the issue request from outside the asin should be st Street, as part asin will need to treet, across from o install a catch o the lateral from tly into	SUGGESTION:		ANSWER: The contracto with specificat Per field walk return of this F had installed r this issue.	Accept Sug r shall control st ion 01 15 61 an by Turner on 12 RFI, it was obse neasures that a	gestion: orm water in acc d approved subn t/02/11 and prior rved that the con ppear to have res	ordance hittals. to tractor solved	
T-0261	BSE - Natoma St	reet Trestle Access		Closed	11/01/2011	11/11/2011	11/02/2011	Potentia	lly
From:	Webcor Construction LP	Nhi Tran	To: Turner Construction	Compan Gary Krutsch	Answered By	Turner Constru	iction Comr Kevi	n Chiu	
Co-Author:	Balfour Beatty Infrastructure, Inc.	Ural Yal							
REQU Refer Letter CR T- rear c respo betwee	JEST: ence CR T-018, Specification Sect r #4225-000-0145 (attached), and a -018 included drawings for access of 540 Howard St. BBII issued letter onse and included a sketch highligh een the proposed building access a	ion 01 53 13, BBI ittached sketch to the side and 4225-000-0145 in ting a conflict nd the Natoma St.	SUGGESTION:		ANSWER: W/O shall coo its subcontrac other required If the 540 How provide W/O's issuance of Cl	Accept Sug rdinate the loca tor(s) such that elements of the vard egress per original egress R T-018) that wa	gestion: tion of the offsho it does not confli project. CR T-018 is an is plan (i.e. plan pr as coordinated w	ot with ct with ssue, ior to ith the	



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trestle offshoot.			Natoma St of	fshoot for review			
The Natoma St. tres: span from Grid 11.5 10 at the edge of exc further west per [W/0 Howard St.	tle offshoot was originally specified to at the center of the excavation to Grid avation. The offshoot was moved D] response to the conflict with 530						

The 540 Howard St. building access arrangement as proposed in CR T-018 does not provide sufficient access to the Natoma offshoot (see attached sketch). Please provide direction if the offshoot is to be relocated or eliminated.

T-026	2 BSE - CAD File fo	BSE - CAD File for trestle/pin pile exclusion zones		Closed	11/09/2011	11/19/2011	11/17/2011	Potentially	
	From: Webcor Construction LP	Nhi Tran	To: Turner Constructi	on Compan Gary Krutsch	Answered By	Adamson Assc	ociates, Inc Gec	orge Metzger	
Co-A	uthor: Balfour Beatty Infrastructure, Inc.	Ural Yal							
	REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Reference RFI#T-0251.1 and Specification	on Section 01 53			TT Reply:				
	The response to RFI T-0251.1 included a showing hatched "exlusion zones" where placement is not allowed. Please provide the CAD file for these ske use in coordinating pile locations.	a set of sketches trestle/pin pile atches for BBII			0262.				-
T-026	3 BSE - Strut Confl	icts to Thornton Tor	nasetti's comments on the ap	proved Internal Closed	11/09/2011	11/19/2011	11/17/2011	Potentially	
	From: Webcor Construction LP	Nhi Tran	To: Turner Constructi	on Compan Gary Krutsch	Answered By	Adamson Assc	ociates, Inc Gec	orge Metzger	
Co-A	uthor:								
	REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Reference RFI #T-0251.1 and Transmitta	al No. 140-02329			TT's response	eto RFI No. T-02	263:		
	Subsequent to W/O's receipt of an appro internal bracing submittal and procureme	ved 100% nt, Thornton			This is a mea clearance req	ns and methods uirements.	topic. GC to cc	oordinate	



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Tomasetti' Transmitta dimension the locatio included ir may accur mitigate co dimension	s comments in the plans tran I #140-02329 added both col s and revised column configu n of the internal bracing struts the base contract BSE docu ately coordinate strut locatior onflicts, please provide the mi from column to strut.	smitted via umns & rations relative to s not otherwise ments. So as W/O is in order to nimum allowable							
T-0264	BSE - Bridge / T	restle Piles in Exclusion	n Zones	Closed	11/09/2011	11/19/2011	11/18/2011	Potential	lly
From: Web	cor Construction LP	Nhi Tran	To: Turner Construction	Compan Gary Krutsch	Answered B	Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author: Balfo	our Beatty Infrastructure, Inc.	Ural Yal							
REQUEST Reference 13	: RFI#T-0251.1 and Specificat	tion Section 01 53	SUGGESTION:		ANSWER: See the attac	Accept Sug	gestion:		
BBII is in r that illustra cannot per currently ir them can t changes. drawings v procureme be made a	eceipt of the drawings include ate trestle pile "exclusion zone netrate the mat slab. Of the 2 n conflict with the pile exclusion be relocated with relatively min The other 4 as indicated in the vill require significant redesign ent, especially at the bridges. It these four locations?	ed in RFI T-251.1 es" where piles 4 piles that are on zones, 20 of nor member e attached n and re- Can an exception							
T-0264.1	BSE - Beale St I	Bridge Pile Conflict (Fol	low up to RFI T-264)	Closed	01/26/2012	02/05/2012	02/03/2012	Potential	lly
From: Balfo	our Beatty Infrastructure, Inc.	Shad Gardner	To: Turner Construction	Compan Gary Krutsch	Answered B	Adamson Asso	ociates, Inc Geo	rge Metzger	-
Co-Author:									
REQUEST	5		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference	: BBI Marked-Up SKS-0135,	SH-3103			ARUP Respo	nse:			
The previo one of the avoid mat investigate	us response to RFI T-264 red Beale St. Bridge piles 3' wes slab reinforcing congestion. E d this request and found that	quested BBII move t to BBII has the cap beam			This cannot b	e evaluated prop tion regarding th	perly by Arup wit	hout horina	



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already has a sign pile in question. In request to move the beam and support shown on the atta acceptable, other its current position	nificant cantilever on the n order to comply with th the pile, we would have t it off the CDSM wall a ached sketch. Please ac wise the pile will need to	e east side of the ne to extend the cap s tvise if this is o remain in			wall. Contrac Calculations imposed on t bridge suppo	view. h will be of the			
its current position					Note that we details for the ends of the b	have not yet see e bridge abutmer ridges.	en the calculation nts at the north ar	s and nd south	
T-0264.2	Beale St Bridge F	Pile Conflict (Follow up	to RFI T-264.1)	Closed	02/08/2012	02/18/2012	02/16/2012	Potentia	lly
From: Balfour Bea	atty Infrastructure, Inc.	Shad Gardner	To: Turner Construction C	Compan Gary Krutsch	Answered B	y:Turner Constru	uction Comr Gary	Krutsch	
Co-Author:	4.2 Beale St Bridge Pile Conflict (Follow From: Balfour Beatty Infrastructure, Inc. Shad Gardner .uthor:								
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
The response to I loading that would This response lea the pile in the curr Please confirm th detailed location of would be accepte Upon receipt of th determine the loa review.	RFI T-264.1 requested I d placed onto the CDSM ads us to believe that the rent location was unacc lat the pile must be mov of where the pile placen id. his information BBII can d to placed on the Wall	BBII provide the I wall. e option to leave eptable. red and provide a hent accurately for Arup's			The bridge p attached SK	ier near 35-E mu S-0179 for accep	st be relocated.	See ar shift.	
T-0265	BSE - TG03 BSE	CDSM Cut-off Wall		Closed	11/09/2011	11/19/2011	11/17/2011	Potentia	
From: Webcor Co	nstruction LP	Nhi Tran	To: Turner Construction C	Compan Garv Krutsch	Answered B	v:Adamson Ass	ociates. Inc. Geor	ae Metzaer	.,
Co-Author:								geege:	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Drawir 0098	ngs GT-2102, GT-2103,	QBD TG0300-			ARUP Respo	onse:			
Balfour Beatty Inf dewatering and ex	rastructure, Inc. (BBII) i xcavation without install	s planning to start ing cut-off walls			These cut-of request of the review. The i	t walls were show e Contractor duri nstallation of the	vn on the drawing ng preconstructio se, or not, is at th	is at the n e	



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and sectionaliz for QBD TG03 their means ar drawings/spec Please confirm	zed dewatering. According 300-0098, BBII can eliminat nd methods although contr ifications indicate cut-off w n.	to the response te cut-off walls as act valls.			discretion of t Arup has not the mass exc	the Contractor. yet received the avation.	dewatering subr	nittal for	
T-0266	BSE - Moratoriun	n Conflict With Phase 2	Utilities In 1st Street	Closed	11/23/2011	11/23/2011	12/06/2011	Potentia	lly
From: Webcor	Construction LP	Manuel Saldana	To: Turner Construction	Compan Gary Krutsch	Answered B	y:Turner Constru	uction Comr Jack	Adams	
Co-Author: Balfour I	Beatty Infrastructure, Inc.	Jeff Molloy							
REQUEST: BBII is in receiption 12-09-2011. E Phase II utility schedule. Our December 19, achievable if F day beginning 12/3 and 12/4. night crew to traffic. The m during the dda would need to Please keep in schedule may over their work Mandral testin the new adjust	ipt of the moratorium waive BBII/PEC will not be able to work by 12/9/11 without at r original request for extens 2011. A 12/9/11 completi PEC is allowed to work 10 h 11/28 through 12/2 as well . In addition, we propose to work near / around the Mini alleviate impacts to heavy hajority, if not all, of the den begin on 11/28 and run thin mind that implenting an a also impact PG&E. We have and the completion of the g is contingent on PG&E's ted completion date.	er expire date of o complete the ccclerating the sion was ion date may be hr shifts during the II as working on o have a separate na Street o demand of day molition can occur t. The night work rough 12/2. accelerated ave no control e utility tie-ins and a availability per	SUGGESTION:		ANSWER: Holiday Mora SFMTA. BBII Monday-Frida Permit 11-77	Accept Sug torium waiver is /PEC work can c ay in accord with 86 issued on 12/	gestion: extended to 12/2 continue on day s SFMTA Special 2/11.	21/11 by shift Traffic	
In summary w items to meet 1) W/O to perr and night shift operations, 2) Permit from times) during t 3) Permit from closures 4) Permit from 5) Agreement	e are requesting direction f the 12/9/11 moratorium de mit BBII / PEC to work the i.e. 10 Hours Days and Ni MTA to extend working ho the day MTA and DPW to work at TJPA to work in Zones 1 of / Approval for compensatio	for the following eadline: extended hours, ight work ours (closure t night within lane & 2 at night on of additional							



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cost (premium	time and or shift rate) F	3BII will have							
magnitude of c	cost for the Monday mor	ming discussion							
We respective morning (11-28 above items.	ly request a meeting wit 8-2011) to discuss direc	th W/O on Monday tion regarding the							
T-0269	BSE - Mass Ex	cavation Pile Extraction (	Clarification	Closed	12/13/2011	12/23/2011	12/27/2011	Potential	ly 🗌
From: Webcor	Construction LP	David Fields	To: Turner Construction	on Compan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author: Balfour E	Beatty Infrastructure, Inc	c. Dean Wallahan							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: 31	00 00 1.4 C.2 and Attac	ched Sketch							
31 00 00 1.4.C stages per Zor	C.2 Pile Extraction - To one.	occur in two (2)			ARUP Respon	nse:			
Stage 1 extract of the trestle the zone, dewateri the bracing pir removed using and be removed for offsite LEE	tion will remove the pile the middle 60' of the work ing wells and piles that a pile locations. Piles will g a non ground deformat ed full length to be utilize D projects and to belo a	s within the footprint k are in conflict with I be tion control method ed ichieve sustainability			The method d Contract Doct be removed u Methods (as o Ground Defor noted as such	escribed is not uments which re sing Ground De lefined in 02 41 mation Control I on the drawing	in accordance wi quire the existing formation Contro 19) except where Methods are allow s.	th the   piles to   e Non- ved and	
for this materia Trestle piles w and concurren extraction.	al. ill be installed after Stag tly with Stage 2 pile	ge 1 pile extraction			The method d notes: this is a they are longe methods used 30 piles per 1	escribed is acce acceptable for ti er than 30 feet, <i>i</i> I. If the density of 2000 square feet	eptable with the fember piles only, a Arup may re-evalue of existing piles e	ollowing and if uate the xceeds	
Stage 2 extract area adjacent and J lines. Pil deformation co 19 - 3.1.B of th backfilling of th means of cuttil excavation as Please referen	tion will remove the pile to the CDSM walls along les will be extracted usir ontrol method as per Se- ne specifications utilizing he void or removal by ng the pile off at the gra- the work proceeds. ice the attached drawing	s within the 50' +- g A ng a ground ction 02 41 g both casing and de of each level of g for details of the			the methods u are observed, Ground Defor	ised. If excessive the Contractor mation Control I	A fup may re-ev re ground mover shall switch to us Method.	ing a	
The 80 Natom	a shoring wall will be rer	moved in stages							

coinciding with the stages of excavation.



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Please confi excavation is	rm this method of pile extract	tion during mass							
T-0269.1	BSE - Zone 2 Free	e Pull Pile Extraction T	est Section	Closed	01/25/2012	02/04/2012	02/07/2012	Potential	ly 🗌
From: Balfou	r Beatty Infrastructure, Inc.	Shad Gardner	To: Turner Construc	tion Compan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
BBII are prop a 'test sectio be extracted side using a	bosing to perform "free pull" p n' in Zone 2. The proposed p near GL14, close to CDSM v 'non ground deformation con	bile extraction on viles will wall on the south			ARUP Respor	nse:			
method' by fi casing. Any wall will be n GL 14. This	ree pulling each pile without ( movement that may occur in nonitored by the inclinometer test section will give us give ( we need to determine)	using steel the CDSM located close to us the			Contractor to provide details of the instrumentation that will be installed by the Contractor to demonstra compliance with Minimal Ground Loss defined in 0 41 19 3.2 G.			ation onstrate I in 02	
1) If free pull control meth	ing the piles using a non grou od affects the CDSM wall by	und deformation							
causing mov	rement.				Arup's respon position regar	se to RFI 269 c ding pile remova	ontinues to be ou al during mass	ır	
Reference: L	JU-2211				excavation				
W/O Note: W ongoing com W/O remains experience in beneath or o increase the CDSM wall r 2) If it is a su remainder of	V/O understands this RFI is ti versations between BBII, AR s concerned that should the O novement, the use of the 'Fre utside the trestle area, would difficulty in determining the o novement. witable method to adopt for re the piles in Zone 2 located of	he result of UP, & PMPC. CDSM wall ee Pull' method d significantly cause of the emoving the putside							
the trestle ar The attached red.	a drawing (D-2211) conveys t	the test section in							
free pulling o zone.	an be used outside the trest	e							

Closed



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From Balfour Ba	attu Infractructura Inc	Liral Val	To: Turner Construction	Compon Construction	Answord B		ociatas Inc. Cos	rao Motzaor	
Co-Author:			10. Turner Construction	Compan Gary Krutsch	Answered by	y-Adamson Ass	ociates, inc Geo	rge Metzger	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: BBII Drawing BBII are proposi a "test section" i extracted near G side using a "no free pulling each Inclinometer (I-O monitored during information need 1) If free pulling control method a movement. 2) If it is a suitab remainder of the "trestle area". The attached dra Please advise of free pulling can	Reference: BBII 4/30/12 Ground Deformation Control Drawing BBII are proposing to perform "free pull" pile extraction on a "test section" in Zone 2. The proposed piles will be extracted near GL14, close to CDSM wall on the north side using a "non ground deformation control method" by free pulling each pile without using steel casing. Inclinometer (I-011) located close to GL 14 will be monitored during the test. This test section will give the information needed to determine: 1) If free pulling the piles using a non ground deformation control method affects the CDSM wall by causing movement. 2) If it is a suitable method to adopt for removing the remainder of the piles in Zone 2 located outside the "trestle area". The attached drawing conveys the test section in green. Please advise on the suitability of this test to determine if free pulling can be used outside the trestle zone. <b>BSE - Clarification for Existing Ground</b> <b>From:</b> Webcor Construction LP				The test set-u they differ fro Arup will drav pulling outsid test results.	up and monitorir m that used in th v conclusions or e the trestle zon	ng are acceptable the area of the bu n the suitability of e after we evalue	e. Since ttress, free ate the	
T-0270	BSE - Clarificatio	n for Existing Ground	Water Elevation	Closed	12/28/2011	01/07/2012	12/30/2011	Potentia	
From: Webcor C	onstruction LP	David Fields	To: Arup	Kevin Clinch	Answered B	V:Adamson Ass	ociates. Inc Geo	rae Metzaer	
Co-Author: Balfour Be	atty Infrastructure, Inc.	Jeff Molloy					,	3***3*	
REQUEST: Reference: 31-2	3-29 and Attached Docur	ment	SUGGESTION:		ANSWER: ARUP Respo	Accept Sug	gestion:		
As discussed du obtain an accura requesting the re In addition, BBII piezometers 118 Mission St (see clarify the initial Zone 4. Based c natural groundw and -8.1 E.L in t	ring the meeting on 12/2, the dewatering model, BB ecent piezometer data for has reviewed the data for 32, 1229 and 1255 locate attachment) and would lif ground water level to use on our review, the existing ater condition fluctuates b	2/11, to help II is 2 Zones 1 and 2. d adjacent to 301 te to the model for Detween 1.6 F L			Available piez recently trans 12/28/2011. The baseline +1.6 ft NAVD The baseline is +1.1 ft NAV	zometer data for mitted through a water level for p 88. water level for p /D88	zone 1 and 2 ha an email to Turne viezo P-06F (aka viezo P-06MS (ał	as been er dated 1262) is ka 1182)	



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groundwat the project dat	ter level to use for Zones 1, 2 ta.	and 3 based on			Additional bas the piezomete baseline datu	seline data will r ers in Zone 1 an m.	need to be collect d 2 prior to estab	ed in lishing a	
 T-0271	BSE - CRT-021 (	Gate Fence Clarifications		Closed	01/05/2012	01/05/2012	01/10/2012	Potentia	
From: Web	ocor Construction LP	David Fields	To: Turner Construction Compan	Gwynne Powell	Answered By	:Turner Constr	uction Comr Jack	Adams	
Co-Author: Turn	ner Construction Company	Jack Adams		-					
REQUEST	Г:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
In regards CRT#021 Scope of V -Per the lo to be cons the Propos attached). included ir -Should th (see 1/4/12 Confirm He drawing sh Confirm th Gate #1 in	to the Proposed Driveway sh drawing and outlined in Bullet Work, please clarify the follow boation of the 18ft Gate, a 10ft structed to connect the existing sed Driveway gate location (se Please confirm the 10ft fence in this CRT-021. le 24'-10" section of the existin 2 Photo attached) be replaced loward St shown on the CRT# nould read "Folsom St" hat Bullet #3 under the "Scope in the CRT#021 attached drawing	nown on the ts #1 and #2 in the ring: t fence would need g 9ft tall fence to ee 1/4/12 Photo e should be ng 6ft tall fence d? #021 attached e of Work" refers to ing.			Proposed Driv CRT#021 dra -Not Confirme is where the O equipment ov light pole. Con of curb cut an proposed driv north of existi provided only - Confirmed th in this CR T-O fence as requ both north an foot and align and/or step d	veway, Gate an wing: ed. The location Contractor is curver city sidewalk ntractor has misu ad gate provided reway curb cut a ng light pole as as guidance. he added fence 21. Contractor irred to install ne d south side of a n with top of exis own to align with	d Fence shown o of new gate and rently driving truc and curb north o interpreted the lo by TJPA. The lo ind new gate is to shown - dimensio cost should be in to add small secti wy gate (fence ad gate). Fence can sting Parcel P'-P" n existing 6 foot fe	n the curb cut cks and f this cations cation of be ons were cluded ion of ded be nine fence ence.	
					Note: green s fence in this a pedestrian vis -Not Confirm up to AC Trar - Confirmed. ' attached drav - Confirmed. I	lats are to be el area to assist Tr sion. ed. Section of th nsit Fence corne "Howard St" sho ving should read Bullet #3 under	iminated at both g uck Drivers and he existing 6ft tall er is acceptable a own on the CRT#4 I "Folsom St" . the "Scope of Wo	gate and fence s is. 021 ork"	



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refers to "Current Driveway" Gate #1 in the CRT#021 attached drawing



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T-0272	BSE - D1 Casi	ing Recovery Inquiries		Closed	01/27/2012	02/02/2012	01/27/2012	Potentia	lly
From: Webcor (	Construction LP	Joanne Filipas	To: Turner Construction (	Compan Gary Krutsch	Answered By	<b>/:</b> Arup	Kevi	in Clinch	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
BBII is requesti retrieval plan: 1. Condition sp earth and water 2. Condition sp substantiate no 3. Condition sp dewatering, spe Note - This RFI review/respons	ing the following to cor pecific engineering cal- r heave from the botto pecific engineering cal- pecific plan engineerin ecifically expected wat h is high priority and an e is necessary.	nplete its D1 casing culations to mitigate m of the casing. culations to g calculations for er quantity.			NOTE: Void. ARUP Respo Arup is in rec Casing Retrie 140-03134). I retrieve the ca The Contractor review which lead to ground Arup will not p Contractor's p	Answered in RF onse: eipt of the Contri- val Plan (Constr Designing and e) asing is the Cont or shall provide of demonstrate tha d loss beneath a provide calculation	actor's Buttress uctware Transm kecuting the plar tractor's respons calculations for A t the method do nd around the cons ons in support of	Shaft D1 ittal item ibility. wrup to es not asing. the	
				1. Arup cannot comment without a more complete plan that includes the methodology by which they intend to retrieve the casing. The plan should inclu- but not be limited to, the current height and composition of the soil plug in the shaft, the plann- height and composition of the soil plug during the retrieval process, the depth of maximum dewaterin the method by which the shaft will be backfilled up retrieval of the casing, and the measures they will to monitor because at the plug.					
					2. Arup will no (Constructwa) that calculatio	ot perform these re Transmittal ite ons are being pre	calculations. Th em 140-03134) s epared.	e Plan tates	
					3. Refer to rea	sponse to questi	on 1.		
					Answered by 01/27/2012	Kevin Clinch (Al	RUP)		
T-0272 1	BSE - D1 Casi	ing Recovery Inquiries		Closed	01/27/2012	02/06/2012	01/27/2012	Potentia	
From: Webcor (		Kirk Nielsen	To: Arup	Kevin Clinch	Answered By	/:Arup	Kevi	in Clinch	
Co-Author:			· · · - F			·			
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	destion:		
BBII is requesti retrieval plan: 1. Condition sp	ing the following to cor ecific engineering calc	nplete its D1 casing ulations to mitigate			ARUP Respo	nse:	actor's Buttress	Shaft D1	



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<ul> <li>earth and water heave from the bottom of the casing.</li> <li>2. Condition specific engineering calculations to substantiate no casing buckling.</li> <li>3. Condition specific plan engineering calculations for dewatering, specifically expected water quantity.</li> <li>Note - This RFI is high priority and an expedited review/response is necessary.</li> </ul>					Casing Retrieval Plan (Constructware Transmittal item 140-03134). Designing and executing the plan to retrieve the casing is the Contractor's responsibility. The Contractor shall provide calculations for Arup to review which demonstrate that the method does not lead to ground loss beneath and around the casing. Arup will not provide calculations in support of the Contractor's plan.
					1. Arup cannot comment without a more complete plan that includes the methodology by which they intend to retrieve the casing. The plan should include, but not be limited to, the current height and composition of the soil plug in the shaft, the planned height and composition of the soil plug during the retrieval process, the depth of maximum dewatering, the method by which the shaft will be backfilled upon retrieval of the casing, and the measures they will take to monitor heave at the plug.
					<ol> <li>Arup will not perform these calculations. The Plan (Constructware Transmittal item 140-03134) states that calculations are being prepared.</li> </ol>
					3. Refer to response to question 1.
					Answered by Kevin Clinch (ARUP) 01/27/2012
T-0273	BSE - Clarification	for Driveway Desgin	at 540 Howard CR -018R2	Closed	01/30/2012 02/09/2012 02/06/2012 Potentially
From:	Webcor Construction LP	David Fields	To: Turner Construction Comp	oan Gary Krutsch	Answered By: Turner Construction Comr Gary Krutsch
Co-Author:					
REQU	JEST:		SUGGESTION:		ANSWER: Accept Suggestion:
Refer CRT-( 540 H condit fire hy install standa	ence: Attached BBI Sketch 018RI directs BBII to complete a 12fr loward Street. The existing tions/location of the curb, USPS facil rdrant prevents the driveway from be ed within compliance with the DPW ards.	t driveway at the lities and water ling and ADA			Per Alberto Herrera of DPW, Mike Pavich of BSM, and Pete Arnautoff of BFP, the proposed modification is acceptable. See (2) linked documents for the full breadth of their responses.

DPW/Tumer/W/0 and BBII discussed various solutions to



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bring the driveway into confimmance with ADA and DPW standards at the field meeting held on January 17th 2012 and again 01/24//2012. Pursuant to the field meeting and direction of CRT-018R2, BBII is requesting detailed plans to allow for construction of a compliant driveway at 540 Howard Street. BBII has been directed in the field by W /0/Tumer, to complete modification to the driveway at 540 Howard Street. Per our field meeting please refer to the attached drawing, indicating BBII understanding on the modifications required. Please confirm the modification per the attached drawing is compliant with City and ADA driveway standards.

Г-0274	BSE - Conflict bet	ween CDSM & Dewate	ering specification	Closed	02/10/2012	02/20/2012	02/16/2012	Potentially
From: Webcor Cor	struction LP	Kirk Nielsen	To: Turner Construction	on Compan Gary Krutsch	Answered By	<b>/:</b> Arup	Kevi	n Clinch
Co-Author:								
REQUEST: Section 31 56 13.3 shoring wall shall I around the excava from the pre-excav "In the event the w specified limit, the implement approp levels within the sp Section 31 23 19. emergency proceed other problems ari In the event the Cl the dewatering wit drilled recharge we area outside the e	8.12.F.1 states "The per be such that the ground tion are maintained with vation levels." The sect vater levels begin to dro Contractor shall be res riate measures to contr becified limits." I.5.B.10 states "Include dures to follow when sys se." DSM wall fails to mitigan hin the excavation shou ells be ready to recharg xcavation?	formance of the water levels nin (3.0) feet ion further states p below the ponsible to ol groundwater description of them failure or the the effects of Id not previously e the affected	SUGGESTION:		ANSWER: ARUP Respo Recharing we discretion per	Accept Sug nse: Ils may be used ading Arup's revi hall be at no add	gestion:	or's etails. e TJPA

Closed



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					Data	Data	Data	Ocat	
Number	Subject			Status	Created	Required	Answered	Impact	Proceed
From: Webcor Cons	struction LP	Kirk Nielsen	To: Turner Construction Comp	oan Gary Krutsch	Answered By	Webcor Const	ruction LP David	d Fields	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Section 31 00 00.3 "On vertical surface areas and fill in cay cement to provide a which protection bo span without buckli The trade subcontr requirement. Pleas 1. Acceptance. 2. Revised dimens	a.8.L states es of CDSM shoring w vities exceeding 1" dee a reasonably uniform s bard, installed in a late ing." ractor is seeking relief se advise as to: sion.	alls, scarify high p with patching urface over r contract, will from the 1" deep			This RFI does Spec 00 07 00 Spec 31 00 00	not comply with Section 6.02. 1 Section 3.8.L.	h the RFI definitio	n in oly with	
T-0275.1	BSE - Request fo	r relief from 1" deep di	mension of CDSM	Closed	02/16/2012	02/26/2012	02/17/2012	Potential	ly 🗌
From: Webcor Cons	struction LP	Kirk Nielsen	To: Turner Construction Comp	oan Gary Krutsch	Answered By	Turner Constru	uction Comr Gary	Krutsch	
Co-Author:									
REQUEST: Section 31 00 00.3 "On vertical surface areas and fill in cav cement to provide a which protection bo span without buckli The trade subcontr requirement. Pleas 1. Acceptance. 2. Revised dimens	8.L states es of CDSM shoring w vities exceeding 1" dee a reasonably uniform s bard, installed in a late ing." ractor is seeking relief se advise as to: sion.	alls, scarify high p with patching surface over r contract, will from the 1" deep	SUGGESTION:		ANSWER: WOJV must c	Accept Sug omply with Spe	gestion: c 31 00 00 Sectio	n 3.8.L.	
T-0276 From: Balfour Beatt	BSE - Request to ty Infrastructure, Inc.	Change Buttress Con Emre Erzen	crete Slump Requirements To: Turner Construction Comp	<b>Closed</b> ban Gary Krutsch	02/16/2012 Answered By	<b>02/26/2012</b> Arup:	<b>02/17/2012</b> Kevir	Potential	ly
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: 31 63 2	29				This is accept	able.			

Currently, the primary and the secondary shafts utilize a superplasticizer to achieve slump as the water content of the mixes is low. Typically, mixes that utilize a



buttress shafts minimum 10 feet embedment into bedrock.

Webcor/Obayashi Joint Venture

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	superplasticizer are intended for slump ranges betwee	in 9"						
	and 12," however, project specifications require an 8" 1" slump. Unfortunately, the addition of the superplasticizer has made it difficult to achieve slump specified. BBII and Central Concrete are requesting a + 1" - 2" slump (giving a range of 6" to 9") in lieu of the specified 8" +/- 1". There will be no adverse effect to t strength as slump is achieved through chemical admixtures and not by adding water. Please advise.	+/- as n 8" e						
T-0277	7 BSE - Request for Buttress S	haft Design Documentation	Closed	02/16/2012	02/26/2012	02/23/2012	Potential	ly
I	From: Balfour Beatty Infrastructure, Inc. Emre Er	zen <b>To:</b> Turner Construction (	Compan Gary Krutsch	Answered By	<b>y:</b> Turner Constru	uction Comr Gary	Krutsch	
<b>Co-A</b> ι	uthor:							
	REQUEST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Please address the following information request from BBII's sub contractor Becho Inc.: " Becho requests to obtain all and any documentation used in the design of the Buttress Shafts. Documentation should include, but is not limited to, submitted and approved calculations, sketches, preliminary designs and calculations, conceptual drawings, all site investigation, and all other work documents and -work papers that were utilized to dev the buttress shaft design in addition to -what's provided in the contract documents and specifications	on elop . "		The request f rejected as ov unrelated to a contract or the use of an RFI	or documents or verly broad, burd any legitimate en e required work. I.	ontained in this R densome and see equiry relating to t This is not the pr	FI is mingly he oper	
	Please advise, if it is acceptable.							
T-0277	7.1 BSE - Becho's 2nd Request f	or Buttress Design Doc	Closed	03/23/2012	04/02/2012	03/28/2012	Potential	ly
I	From: Balfour Beatty Infrastructure, Inc. Ural Yal	To: Turner Construction (	Compan Gary Krutsch	Answered By	y:Turner Constru	uction Comr Gary	Krutsch	
Co-Au	uthor:							
	REQUEST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Becho requests to obtain all work documents, sketche preliminary calculations and approved calculations wh show how the designer arrived the final skin friction va used in the design of the buttress shafts as well as the	s, ich lues e		Per the TJPA	, refer to respon	ise given in RFI T	-0277.	



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T-0277.2	BSE - Request for Buttress Shaf	t Design Documentation	Closed	04/04/2012	04/14/2012	04/11/2012	Potential	ly 🗌
From: Balfour E	Beatty Infrastructure, Inc. Ural Yal	To: Turner Construction	Compan Gary Krutsch	Answered By	:Transbay PMP	C Dou	glas Jacobso	n
Co-Author:								
REQUEST: Per the agreer BSE Buttress Becho's Reque below: Becho is in red Buttress Shaft response, Bec Shoring Desig	nent at the 4/4/12 TCCO Progress Meeting Shoring and Excavation please find est for additional design documentation ceipt of RFI # T-0277.1 regarding the Design Documentation. As per the TJPA ho more specifically requests the Reference n work documents pertinent to zone 4.	SUGGESTION:		ANSWER:       Accept Suggestion:         We are able to reply to a more specific information request. Per Contract Spec 00 03 20 -         GEOTECHNICAL DATA, sections 1.2 A.1 and 1.3 and A.2, three documents (listed below) are availal for the Contractor to review. Please specify which report is requested.         00 03 20 1.2 A.1 Transbay Transit Center, Final Geotechnical Data Report, Volumes 1, 2, and 3. Transbay Joint Powers Authority. Prepared by Arup North America Limited, February 2010.         00 03 20 1.3 A.1 Final Report, Results of Prototype Test Program, Installation of Shoring Walls Using 1 Cement Deep Soil Mixing Method. Transbay Trans Center, Prepared by Arup North America Limited, I 2010.         00 03 20 1.3 A.2 Final Report, Results of Prototype Test Program and Monitoring during Construction			ation I 1.3 A.1 vailable hich al 3. Arup otype sing the Transit ted, May	
 T-0278	BSE - Access Trestle Bump Out	Coordination	Closed	Dest Program and Monitoring during Construction of Drilled Shafts. Transbay Transit Center, Prepared by Arup North America Limited, May 2010.         02/16/2012       02/26/2012       02/24/2012       Potential				
From: Webcor	Construction LP David Fields	<b>To:</b> Turner Construction	Compan Gary Krutsch	Answered By	:Arup	Kevi	n Clinch	
Co-Author: REQUEST: SUGGESTION: Reference: Attached BII Sketch Due to the deletion of the "Natoma Finger" portion of the access trustle BBII is proposing to install additional "bump outs" (per the attached sketch). For coordination purposes, please provide "no fly" zone information for these locations.				ANSWER: Arup understa RFI-251.1 sho refer to the RF Regarding the review the geo when they are	Accept Suge nds that the des ws the "no-fly-z [1-251.1 respons addition of the otechnical aspec submitted.	gestion: sign team's responses". Contracto se for this inform "bumpouts", Aru ts of the revised	onse to or shall ation. p will I design	
T-0279	BSE - Trestle Welding Code Con	npatibility	Closed	02/27/2012	03/08/2012	03/20/2012	Potential	ly 🗌
From: Balfour B	Beatty Infrastructure, Inc. Shad Gardn	er <b>To:</b> Turner Construction	Compan Gary Krutsch	Answered By	URS Corporati	on Davi	d Fyfe	-



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Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: ASHTO/AWS SH-0200	S D1.5M/D1.5:2008			URS Respon Code Compa	se to RFI No. T- tibility:	0279 Trestle Wel	ding	
The Tempora December sp welding code. requested tha AWS 01.5- Bi complied with conformed tre	ary Access Trestle Design submitted in ecified AWS 01.1 as the required . During the review process the reviewers at the welding code be changed to ridge Welding Code. This request was a by revising general note A5.2 on the estle drawings.			A series of ty referencing th 01.1 or 01.5. be correctly ic numbers to a project docun or annotated	pographic errors he AWS docume References to dentified by the void any future nentation. This to reflect these	s occur within the ents D1.1 and D1. AWS documents correct AWS docu confusion within the RFI should be co typographic errors	RFI, 5 as should ument ne rrected S.	
Since issuing by both our sl a compatibility welding code originally spec	these documents, BBII has been informed hop and field welding inspectors that y discrepancy exists between the 01.5 and base metals/ member shapes cified in the trestle design.			No exception elements as o Note AWS D This AWS se metals, and p	has been taken components with 1.5 section 1.2.2 ction provides a prefaces this with	to use tubular sto nin the trestle stru Approved Base list of approved b n Unless otherwis	eel ctures. Metals: base e	
D1.5 is specif not intended f structural tubi causes a disc bridges, our t comprised of lateral and lor	fically intended for use on bridges and it is for use on "structures composed of ing" as noted in section 1.1.1 attached. This crepancy because unlike most restle contains a substructure completely structural steel tubing. (ie Pipe pile, ngitudinal X-bracing).			specified, and steels may be understand o approval by tl PB&A) as the contract draw recommenda Peer Reviewe	d furthermore sp e approved by th ther steels have he Engineer (EC ay are included f rings for the Acc tion by the EOR er that the base	pecifically states C the Engineer. We been recommen DR = Pirooz Barar or use in the set c ess Trestle. With and concurrence metals proposed	other of of the by the for use	
In addition to incompatibility 01.5 requires trestle design metals depen	the pipe incompatibility, there is also an y between the specified base metals. base metals to be ASTM A709 and the specified a variety of different base			are suitable for assessment of welding for th URS takes not base metals.	or the intended of of fatigue and po le required servi o exception to th	usage including a otential for crackir ce loading an ser le use of the alter	n ig of vice life, nate	
general note 2 Since Article to reference a standard whe	2.28 also attached 1.1.1 of 01.5 permits the Engineer to choose an alternate applicable welding in fabrication or structure components are not			Use of AWS specification, reviewers. R	D1.5 is a require not simply a rec eference 01 53	ement of the proc quest made by tee 13 Rev 1.	urement chnical	
specifically ac proposes kee code because adding a supp	ddressed within its sections, BBII ping AWS 01.1 as the specified welding e of its base metal compatibility, but plemental trestle specific welding			Where mater addressed by approved for D1.5 is not ap	ials within the tra AWS D1.5, the connection of the oplicable as follo	estle structure are in use of AWS D1 lese elements wh lows:	e not .1 is ere	
specification control to a le specification 01.5 section 3 when the req 01.1. (ie: fit-u	written by the EOR that increases the quality evel equal to that of 01.5. This supplemental will include applicable portions of 3 "Workmanship" and section 3 "Inspection" uirements are greater than that of p tolerances, NOT frequency, etc).			Where preap required, geo welding proce use;	proved joint geo metry in accorda edures per AWS	metry for welding ance with preapp D1.1 are approv	is oved ed for	



requires Welding Qualifications (procedures and

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apply to AWS D1.5 areas.

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Please advise if the proposed resolution is acceptable. Upon concurrence, BBII will submit the EOR's Trestle Welding specification for review.					Provide all ins accordance w Where an eler connected to a example, plate inspection req shall be provid	s in 1; D1.5 is 1.1 (for ringent S D1.5			
					Minimum and requirements shall apply to metal to which	maximum fillet applicable to fill all fillet welding welding is app	weld sizes and o et welding per A\ irrespective of th lied.	ther WS D1.5 ne base	
					Use of a supplemental welding specification in place of use of AWS D1.5 is not acceptable. Provide full compliance with AWS D1.5 for all procedures and inspections except where AWS D1.1 has been approved for use per the notes above.				
T-0279.1	BSE - Trestle Wel	ding Code Compatibility		Closed	03/28/2012	04/07/2012	04/09/2012	Potential	ly 🗌
From: Balfour	Beatty Infrastructure, Inc.	Shad Gardner	To: Turner Construction Co	mpan Gary Krutsch	Answered By	URS Corporat	ion Davi	d Fyfe	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: BBII Demarcation Sketch PB&A Trestle Welding Inspection Plan					Use of AWS I and substruct figure prepare T-0279.1 is ac	D1.1 and AWS ure as indicated d by BBII and a cceptable.	D1.5 for superstru l on bridge cross attached to this R	ucture section FI No.	
The response to RFI T-279 provided a method of dealing with the trestle welding code compatibility issues that would be difficult to enforce, track and document. BBII proposes making a clear demarcation line at the bottom the cap beam that will clearly differentiate the two welding codes.					Submission of PB&A and atta review and ac acceptable me it.	the Trestle We ached to this R ceptance via th thod, therefore	elding Inspection FI No. T-0279.1) e RFI process is we have no corr	Plan (by for not an ment on	
Additionally th Temporary Bri compliance wi last paragraph	e RFI response appears to idge Specification 01-53-13 ith AWS D1.5 as described 1. 01-53-13 Paragraph 1.6.	infer that the requires full in the third and .H (revB) only			For clarity we with the follow inspection, of All requiremer	respond to the ing: All requirer AWS D1.1 app nts, including in	welding inspection nents, including ly to AWS D1.1 a spection, of AWS	on plan areas. S D1.5	


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		-					

personnel) to be performed in accordance with AWS D1.5.

Therefore in order to comply with the project specifications and the appropriate welding codes, BBII will Perform all welding below the demarcation line (substructure) with weld procedures and welder qualifications in conformance with AWS D1.1 since the members are predominately comprised of tubular material.

Perform all welding above the demarcation line (superstructure) with weld procedures and welder qualifications conformance with AWS D1.5 since the main members are Wide flange beam.

Inspection will be performed by the project special inspector in accordance with recommendations of the EOR attached.

a "blowout" condition has in fact occurred. W/O would

Please confirm this is acceptable.

T-0280	BSE - Request	t to shorten depth on shaft	: D/1	Closed	02/29/2012	03/10/2012	03/02/2012	Potentially	$\square$
From: Webcor (	Construction LP	Joanne Filipas	To: Turner Construction Comp	oan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geo	orge Metzger	
Co-Author:									
REQUEST: Ref - Attached Due to the blow Buttress Shaft D1 to a depth of ARUP. BECHO and thus would another occurre no longer an op the maximum s shafts, in event re-break of cas	RFI from BBI/Becho wout conditions previou D1, BECHO requests t of 180 feet as previousl D believes the blowout ca el like to proceed with ca ence. Alternatively, if A ption, BECHO requests spacing allowed betweet t to mitigate possible so sing while advancing D1	sly encountered on o install Shaft y proposed by condition still exists aution to prevent RUP feels this is s that ARUP increase en the tangent chedule delay, and/or 1. By allowing such	SUGGESTION:		ANSWER: ARUP Responses Earlier discuss shortening sha 2 in place to of beneath the s not complete removed, ther accordance w The Contractor the increased distance betw	Accept Sug onse: sions regarding aft D-1 was bas lepth and abanc heared break. S and the casing l refore shaft D-1 rith the Contract or shall submit a spacing that ac reen shaft rows	gestion:	n of 1 and E- g at D-1 -2 are akingly d in hieving fixed were	



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request the desig drilling difficulties request the spaci	n team consider short po encountered. Alternativ ng revision described ab	ouring D-1 due to ely, W/O would ove.							
T-0281	BSE - Survey Site	Drawing and Certificate S	ubmittal	Closed	03/06/2012	03/16/2012	03/09/2012	Potential	lv 🗔
From: Balfour Bea	tty Infrastructure, Inc.	Danny Walsh	To: Turner Construction Compan	Gary Krutsch	Answered By	Adamson Asso	ciates, Inc Geor	ge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
BBIII is unclear or and certificate" su As the first contra terminal, no previ the requirement is verify the work alr subcontractors), o is required of BBI	n what is required for the ibmittal listed in section ( ctor working on the cons ous work is in place. Ple s intended for future trad- ready completed by previous or provide additional clarit I to complete this submit	"site drawing D1 10 50 1.3B. Atruction of the ase confirm that e packages (to ous trade fication on what tal requirement.			The Contractor is to provide it for the purpos "the elevation: conformance	or with certification ems specified ir e noted in the sp s and locations of with Contract Do	on of the GC's sub Division 01 10 5 pecification: to c of the Work are in ocuments".	irveyor 50 1.3B ertify n	
T-0282	BSE - News/Adver	tisement Stand Removal		Closed	03/16/2012	03/26/2012	03/19/2012	Potential	ly 🗌
From: Balfour Bea	tty Infrastructure, Inc.	Ural Yal	To: Turner Construction Compan	Gary Krutsch	Answered By	Turner Constru	iction Comr Jack	Adams	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
The unused news Fremont Street ne Buttress drilling of the sidewalk at th lanes on Fremont 70. (see attached	Advertisement stand on eeds to be removed to ad n shafts A & B. BBII inte is current location to pro- Street per specification sketch)	the Westside of ccommodate the nds to modify vide 3 - 11ft section 01-15-			Per Jack Ada Contractor ma and store in P	ms of Turner, at ay remove the ne arcel M	no cost to the ov ews/advertiseme	wner the nt stand	
Please provide dir stands.	rection to relocate or ren	nove these							
T-0283	BSE - Backfill Mat	erial For Pre-Trench		Closed	03/15/2012	03/25/2012	03/20/2012	Potential	ly 🗌
From: Balfour Bea	tty Infrastructure, Inc.	Jeff Molloy	To: Turner Construction Compan	Gary Krutsch	Answered By	Turner Constru	ction Comr Jack	Adams	

Co-Author:



review and acceptance of this mix design.

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							1100000
REQUEST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: Proposed 1 sack sand mix design BBII is not able to achieve the required compaction per SFDPW requirements due to inclement weather conditions. We have been advised from suppliers that the sand backfill material is saturated, and from past experience will not achieve the required compaction. If the weather persists as forcasted BBII is proposing to backfill with 1 sack sand as a substitute to dry material. This will allow us to maintain the scheduled CDSM wall installation on 3/23/2012, and maintain the DPW compaction standards. Note sand slurry is only required in the street or public right of way. Note: According to BBII this will not impact DND/Malcolm in the installation of the CDSM wall.			<ul> <li>BBII has requested use of sack sand slurry mix design FOA100CX. This use of sand/slurry is specified in Section 31 23 10, 2.2, H of the utility relocation spec. See also RFI U-0156.</li> <li>This use is acceptable per SFDPW requirements due to inclement weather conditions. Also, this use of slurry is important for the upcoming CDSM wall at the pretrench locations. Per correspondence attached from Webcor-Obayashi the CM/GC, they state that their Trade Subcontractor "BBII has considered and coordinated with DND/Malcolm in this regard." (see uploaded document under 'Supporting Documents')</li> <li>Substituting this slurry versus soils compaction and testing is acceptable. However this sand slurry use is a Contractor scheduling decision and will be at no additional cost to the TJPA from WOJV, BBII, and/or Malcolm-DND.</li> </ul>				
T-0283.1 BSE - Backfill for Pretrenching		Closed	03/29/2012	04/08/2012	03/30/2012	Potentia	ly 🗌
From: Balfour Beatty Infrastructure, Inc. Ural Yal	To: Turner Construction Comp	oan Gary Krutsch	Answered By	Turner Constru	uction Comr Jack	Adams	
Co-Author:							
REQUEST: As a supplement to RFI 283 regarding the use of a CDF mix for backfill of the pre-trench at A-line across First Street, BBII is submitting the attached mix design for review and acceptance. The previously submitted mix design was not pumpable and due to the nature of the pile extraction and backfill operation a pumpable mix is required so backfill compaction can be achieved. The attached mix will allow us to achieve the DPW compaction requirements and also allow for the installation of the CDSM wall. The use of this mix design is scheduled for this afternoon in order to maintain the CDSM installation schedule for	SUGGESTION:		ANSWER: CDF mix for b is acceptable. with their Trad considered an regard. Substituting th testing is acce the pretrench However, aga decision and w from WOJV, E	Accept Sug ackfill of the CE CM/GC Webco le Subcontracto d coordinated v his mix versus s eptable for the u locations First a in this use is a 0 vill be at no ado BBII, and/or Mal	gestion: SM pre-trench lc pr-Obayashi to cc pr such that "BBII with DND/Malcoln coils compaction a upcoming CDSM and Fremont Stre Contractor sched ditional cost to the lcolm-DND	ocations onfirm has n in this and walls at ets. uling a TJPA	



cage assembly less 250 feet.

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T-0284	BSE - Request to	Borehole Coordinate	es TTB-07 TTB-09	Closed	03/21/2012	03/31/2012	03/23/2012	Potential	у 🗌
From: Balfour Be	eatty Infrastructure, Inc.	Ural Yal	To: Turner Construction C	ompan Gary Krutsch	Answered By	Webcor Consti	ruction LP Dav	id Fields	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
After further revi by ARUP it has Boreholes TTB-I BECHO respect Easting coordina	iew of the Geotechnical Re come to BECHO's attentio 07 and TTB-09 were not s fully requests to obtain No ates for TTB-07 and TTB-0	eport produced on that urveyed. orthing and 09.			These borehol coordinates ar Data Report.	les were not sur re listed in Table	veyed. The apple 3 in the Geoted	roximate chnical	
T-0285	BSE - Buttress Re	bar Cage Length Ad	justment	Closed	03/21/2012	03/31/2012	03/26/2012	Potential	У
From: Balfour Be	eatty Infrastructure, Inc.	Ural Yal	To: Turner Construction C	ompan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geo	orge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
BBII's proposal of pre-extended ler buttress shafts the BBII had sugges cage assemblies top "setting cage lengths of struct unchanged. BBII's proposal of by 19' got accept vertical rebar extensions of the rebar	of fabricating the buttress ngth of 260' in order to acc that are deeper than 241'. sted to extend the overall I s to 260' by increasing the e" 19 feet more. In this pro- trual cage segments were of extending the length of oted with the added require tensions on the job site. B added requirement of spli	rebar cages to a commodate the In RFI T-0252, ength of all rebar length of the oposal, the to remain the setting cage ement of splicing IBII takes icing vertical			placed up to 1 top of concrete extensions sha or the cage sh However, if the 0" of the top o extended cage	'-0" below the to e is shown on G all be spliced as all be fabricated e top of the fabr f the concrete, r es are required.	pp of the concret IT-5201. Longitu needed to achie d long to achieve icated cage is w no bar extension	te. The dinal bar eve this, e this. ithin 9'- s nor	
rebar extensions increase in dura	s on the job site, which wo tions of the rebar cage ins	uld lead to an stallations.							
In order to elimi fabricate the set than shown on t segment lengths structural cage s from the top of c the rebar cages '+9'=250').	inate splicing, BBII now pr tting cage segments up to he plans. The structural re s will remain unchanged. T sections will be within up to concrete. This proposal wil with a maximum total leng	oposes to 9 feet longer ebar cage The top of the o 9 feet proximity II accommodate gth of 250' (241							
If the rebar cage feet, BBII will dir extend the botto distance equal to	e assembly needs to be low rect the rebar cage manufation of structural cage segment of the required total length	nger than 250 acturer to also nt by an added of the rebar							



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T-0286	BSE - Use of Actu	al Utility Weights		Closed	03/26/2012	04/05/2012	03/29/2012	Potentia	lly
From: Balfour Be	eatty Infrastructure, Inc.	Shad Gardner	To: Turner Construction Con	pan Gary Krutsch	Answered By	Transbay PMP	C Dou	glas Jacobso	on
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: Marked-Up SH-3 Marked-Up SH-3 Utility Weight Ca	3101 3102 alculations				Reply to RFI 2 3000lb per If i	Reply to RFI 286.0 Use of actual utility loads versus 3000lb per If in Specifications			
PG&E Weights I Verizon Weights Temporary Bridg	Email s Email ge specification 01-53-13	(1.3B) requires			RFI T-0286.0 utilities versus Specification Bridges - Perf	regarding the us the nominal 30 Section 01-53-1 ormance Requi	se of actual weig 00 lb/lf required 3 Part 1.3.B (Ter rements) first rec	ht of in mporary juires	
the bridge design hanging utilities between the RU has attained the	n to include a 3000 lb/lf al below the bridge. Extensi P designers and the utility exact location and actual	llowance for ve coordination / owners, BBII / weight of the			the correct ac application to Beale respect	tual weight of th each of the stre ively	e utilities and the ets, First, Fremo	e nt, and	
utilities to be sup	oported by the bridge stru-	ctures. These			First Street Ut	ility Unit Weight	S		
been used in the the utility hanger also know that fu	e design of the bridge stru rs. Through our coordinati uture utilities will not be ac	icture as well as ion efforts we idded until the			The BBI/PBA shows the foll bridge:	temporary bridg owing utilities su	e design for Firs uspended from th	t Street ne	
of the actual utili	ity weights in our design is	s acceptable.			Girder #3 & G facing north)	irder #4 (Counti	ng from left to rio	ght	
					PG&E (6) eac cable (8.2 lb/l girders #3 & # Girder #5 & G facing north)	h 6" diameter st ) @ 25.9lb/lf = 4 (counting left irder #6 (Counti	eel ducts (17.7 l 155.4 lb/lf under to right) ng from left to rig	b/lf) + 2 ght	
					PG&E (9) eac 233.1 lb/lf und PG&E (1) eac 25.9 lb/lf und Verizon (6) ea 69.54 lb/lf und Subtotal utility #4 = 155.4 lb/	th 6" diameter st ler 2 girders #5 th 4" diameter st er 2 girders #5 & lich 4" diameter st ler 2 girders #5 r load used by B lf	eel ducts @ 25.9 & #6) #6l duct @ 25.9 #6) steel duct @ 11. & #6 BI/PBA for girde	9lb/lf = lb/lf = 59lb/lf = rs #3 &	
					Subtotal utility  = 328.54	r load used by B lb/lf	BI/PBA for girde	rs #5	
					Total utility loa = 483.94 lb/lf	ad used by BBI/	PBA for all girde	rs #3~#6	
					There are sev calculation:	eral slight errors	s in this BBI/PBA	L .	



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Verizon has incorrectly used the weight of 4" diameter PVC duct rather than steel duct used in the temporary bridge crossing (4" diameter steel @ 10.3lb/lf duct + 3lb/lf fiber cable x 6 each lines = 6ea x 13.3 lb/lf = 79.8 lb/lf versus 69.54 lb/lf) PG & E weight for 6" diameter steel duct is slightly

less than the weight for 6" diameter pile Schedule 40 (17.7lb/lf versus 18.4 lb/lf x 15 ducts = 0.7 x 15 = 10.5 lb/lf differential)

Total differential = 10.5 lb/lf + (79.8 - 69.5) = 10.5 lb/lf + 10.3 lb per lf = 20.8 lb/lf

Corrected Utility weight = 483.9 lb /lf + 20.8 lb/lf = 505 lb/lf

This small differential weight is unlikely to have a major impact on the temporary bridge design based on the capacity/demand ratios calculated by the Engineer of Record.

AASHTO Section 1.1.1 (General Provisions - Design Analysis) states:

"When these Specifications provide for empirical formulae, alternate rational analysis, based on theories or tests and accepted by the authority having jurisdiction, will be considered as compliance with these Specifications".

Based on AASHTO Section 1.1.1 (General Provisions - Design Analysis) the use of actual utility loads now known rather than the provisional 3000 lb/lf loading stated in Specification 01-53-13 Part 1.3.B is acceptable with the following provisions:

Contractor accepts responsibility for the statement regarding the City plans not to install any additional utilities in the bridge streets until the below grade structure is completed and the streets are restored.



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storm water inlet location?

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			BBI's Engineer of Record (PB Demand over Capacity ratio is Safety Factor) for the crane gi girders Demand over Capacity Factor 1.5:1)				A) has calculated s a minimum of 4 irders and the oth y ratio is 67% (Sa		
T-0287	BSE - Drain Inlet	at the Northwest Corn	er of Minna and First street	Closed	04/04/2012	04/14/2012	04/12/2012	Potentia	lly
From: Balfour Beat	ty Infrastructure, Inc.	Shad Gardner	To: Turner Construction Com	oan Gary Krutsch	Answered By	URS Corporati	on David	l Fyfe	
Co-Author:									
Reference: TG0300-210.1 TG0300-205.2 City Planning/KCA In order to comply install a standard of of the Minna and F our site civil draina TZ1030-01513A08 015313A04.1 pack When potholing wh was discovered tha gas line. BBII's des planning departme catch basin per the confirm that it is ac basin in lieu of wha submittals.	Emails with city standards BB city drain inlet on the no first street intersection ge plan (submittal TGC 8.2 see also submittal TGC cage TG0300-210.1 for here this drain inlet is to at it would be in conflic sign engineer KCA cor- ent and got pre approva e attached email and d cceptable for us to insta at was submitted in the	Il intended to orth west corner as required by 0300-205.2, TZ1030- • product data). o be located, it t with an existing nacted the city al of the attached etails. Please all this catch e aforementioned			Submission o this RFI No. T RFI process is we have no co In an effort to the following o What is the lo offsets to exis existing gas li relative to the The proposed approximately review of RUF appears that to over top of the line is located inlet (plan view	f the storm wate -0287) for review s not an accepta comment on it. help expedite re- questions/requestions/requestions/requestions/requestions/requestions recation (depth of thing and proposed recation (depth of thing and proposed storm l storm water inlever storm water	r inlet detail (attai w and acceptance ble method, there esolution of this co sts are provided b cover and horizo ed features) of the al conduits/condu water inlet? et appears to exter top of rim/grade. and U-3410/Sec s little as 36" of co gas line. If PG& proposed storm w ot appear to be si	ched to e via the efore onflict elow: ntal ectors) end From tion T, it over E gas ater ufficient worter	
					ventical cleara inlet? Specify engin beneath propo Provide a deta submittal illus inlet and adja Has PG&E re	eered base mate osed storm wate ailed sketch (pla trating location o cent existing/pro viewed and app	e proposed storm r inlet. n and section) wi of proposed storm posed features. roved the propose	water blaced h water ed	



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					Provide comfii inlet is in com requirements	mation that the bliance with PG	proposed storm &E separation	water	
T-0288	BSE - Request to	Relocate Rathole to D9		Closed	04/05/2012	04/15/2012	04/10/2012	Potential	ly 🗌
From: Balfour	Beatty Infrastructure, Inc.	Ural Yal	To: Turner Construction	Compan Gary Krutsch	Answered By	Adamson Asso	ciates, Inc Geor	ge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Attached plea	ase find Becho's request to re	elocate existing			ARUP Respor	ise:			
is complete.	aft D9 where it will remain un Below is Becho's exact wordi	itil Buttress work			Arup understa	nds there was n	o attachment, or	nly the	
"Due to the u	incoming bridge construction	on Fremont			one page RFI.			-	
Street, Becho rathole. Bech relocated to S of the Buttres D9 30 to 35 fe new rathole. F	by will be losing the existing lo or requests that the existing lo or requests that the existing r Shaft D9 where it will remain is Shaft Work. Becho propos eet short from grade to accor Please advise if this is acception.	cation of the rathole be for the duration ses to pour Shaft mmodate the otable."			Provided the h backfilled with the casing is r	ole remains cas CSLM (or an ap emoved, this is	sed at all times, o pproved equal) w acceptable.	or henever	
T-0289	BSE - Becho Regi	esting 9-20-2011 Meeting	Minutes	Closed	04/11/2012	04/21/2012	05/08/2012	Potential	Iv 🗔
From: Balfour	Beatty Infrastructure. Inc.	Ural Yal	To: Turner Construction	Compan Gary Krutsch	Answered By	:Turner Constru	ction Comr Garv	Krutsch	.,
Co-Author:	,,			compan eary radion	· · · · · · · · · · · · · · · · · · ·		outon comp cary		
REQUEST			SUGGESTION			Accent Sug	restion:		
"On Septemb TJPA's office Concrete Slat where the foll Maria Ayerdi- Please reque 9/20/2011."	ber 20th, 2011 a meeting wa to discuss Noise Issues, Co b and Buttress Work. Preser owing key representatives: E Kaplan, Rebecca Armenta, a st the meeting minutes for th	s held in the rring thru the at in the meeting Brian Dykes, and Steven Rule. he meeting on			No meeting m	inutes were take	en during this me	eeting.	
T-0290	BSE - Stabilizatio	n of Unimproved Soil Cor	ditions Along the Interior	Face of the C Closed	04/11/2012	04/21/2012	04/18/2012	Potontial	

From: Balfour Beatty Infrastructure, Inc. Ural Yal To: Turner Construction Compan Gary Krutsch

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Answered By:Webcor Construction LP David Fields

Co-Author:



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REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: 31 56 BBII F	13 3.7 C Photo of CDSM Wall J-I	Line			The quality of Contractors' of Contractor ba	the CDSM wall chosen means a	is dependent up nd methods. If the	oon the he ty of the	
BBII is requesting unimproved soil co CDSM wall.	direction for a method onditions along the inte	to stabilize the rior face of the			wall, the Cont the TJPA for	tractor shall provideration.	vide a remedial p	plan to	
The current condit unimproved soil co become detached the face of the wal visual details.	tion of the CDSM wall in onditions that have the from the wall and crea II. Please reference att	ncludes potential to te large voids at ached photo for			Conformance not relieve the the entire wal	with the criteria e Contractor of t I meet the speci	within a sample heir responsibilit fications.	e does y that	
Based on our reco specification requi as per section 31 s Please note: Sect and 6") are satisfie inspection of doub installation.	ords, the CDSM wall me rements for uniformity 56 13 of the contract sp tion 31 56 13 3.7 C's re ed by during the TJPA's ole-tube samples at the	et all the and improved soil pecifications. quirements (10% s Representative time of							
T-0291	BSE - Arup Requ	esting Exploratory Cor	es on Buttress Shaft D1	Closed	04/16/2012	04/26/2012	04/24/2012	Potentia	lly
From: Balfour Beat	tty Infrastructure, Inc.	Ural Yal	To: Turner Construction Com	pan Gary Krutsch	Answered B	Adamson Ass	ociates, Inc Geo	orge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Arup is requesting Shaft D1. Please p locations of cores.	exploratory core samp provide direction on dep	les at Buttress oths, sizes, and			Shaft D1 is, s Contractor's b drilling to asc required dept do so, and th observations to place the s	o far, non-confo pest interest to p ertain why they h. Arup recomm at a plan be dev made during the haft.	rming. It is in the perform explorato are unable to rea ends that the Co eloped based or a two previous at	e ory ach the ontractor o the ttempts	
T-0291.1	BSE - Arup Requ	esting Exploratory Cor	es on Buttress Shaft D1 Follow-Ur	closed	04/25/2012	05/05/2012	05/04/2012	Potentia	
From: Webcor Cor	nstruction LP	David Fields	To: Turner Construction Com	pan Garv Krutsch	Answered B	Adamson Ass	ociates. Inc. Geo	orge Metzger	.,
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		



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Arup has re in which the "Arup is rea Shaft D1. P locations of	equested to revise the response to RFI T-0291 e following question was presented - questing exploratory core samples at Buttress Please provide direction on depths, sizes, and f cores."			ARUP Respor There has bee proposal. Aru footprint of bu	nse: en further discus o retracts the re ttress shaft D1.	ssion regarding th quest to core with	iis iin the	
T-0292	BSE - First St Bridge Pier 1 Relocation		Closed	05/02/2012	05/12/2012	05/03/2012	Potential	ly 🗌
From: Balfo	ur Beatty Infrastructure, Inc. Ural Yal	To: Turner Construction Compan	Gary Krutsch	Answered By	Turner Constru	uction Comr Gary	Krutsch	
Co-Author:			,	-				
REQUEST		SUGGESTION			Accent Sug	destion:		
Reference: Revised Dra Location	awings and Calculations for Revised Pier 1	SUGLENON.		The attachme should be sub Resubmit RFI	nts are not app mitted through with pertinent i	ropriate for an RF the submittal proc nformation only	I, they cess.	
The western anomaly. T pile 6'-0" so and the revi to the Bridg review. Ple not cause c	n Pier 1 CIDH pile was rejected due to an The corrective action is to replace it with a new pouth. Attached is the revised Bridge Drawings rised calculations. This package was emailed ge Design reviewers on 4-24-12 for expedited ease confirm that the new pier 1 location does conflicts with the future structure.							
T-0202 1	RSE - First St Bridge Dier 1 Pelocation		Closed	05/03/2012	05/13/2012	05/04/2012	Potential	
From: Balfo	ur Beatty Infrastructure Inc. Ural Yal	To: Turner Construction Compon	Gany Krutsch	Answered Ru		nciates Inc Coor	n Otential	
Co-Author:				, illoineilea 2 <b>,</b>			ge meizger	
PEOLIEST		SUCCESTION			Assent Curr			
Reference: SH-2100		3066E3110N.		The 2 norther to be shifted a	nmost First Stre as depicted in th	et temporary brid	ge piers ble.	
SH-2101				ARUP Respo	nse:			
Detail: The an anomaly new pile 6'- Drawings sl the new pie	western Pier 1 CIDH pile was rejected due to . The corrective action is to replace it with a 0" south. Attached are the revised Bridge howing new pile locations. Please confirm that er 1 location does not cause conflicts with the			Arup takes no	exception to th	is.		



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	future structure. Please note the revised documents were emailed to the Bridge on 4-24-12 for expedited review.	d design Design reviewers							
T-267	BSE - DI Installa	ation at First Street		Closed	11/29/2011	12/09/2011	12/13/2011	Potentia	lly
	From: Webcor Construction LP	Nhi Tran	To: Turner Construction Com	pan Gary Krutsch	Answered By	AECOM Techr	ical Service Eric	Zagol	
Co-A	uthor: Balfour Beatty Infrastructure, Inc.	Ural Yal							
	REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Reference RFI U-101, Sheet U-3021				CB#501 was	deleted from RU	P due to unfores	een	
	The RFI response U-101 dated 02-28-2	2011 eliminates the			field condition to drain south	IS. For RUP, rur to existing CB a	noff from adjacen at STA 4+20. Ex	it area isting	
	CB #501 from the RUP contractor's sco	ppe of work.			CB at STA 4+	20 to remain in	place and active	at	
	surface water control system neither su	iggested nor			completion of	NUF.			
	installed to replace the CB # 501.				BSE Contract accordance w	or to provide sto ith BSE docume	ents.	on site	
	BBII recommends that this catch basin per the original design to control surface Please confirm it will installed.	# 501, be installed e water.							
T-268	BSE - Rebar in S	Secondary Shafts		Closed	12/08/2011	12/18/2011	12/12/2011	Potentia	lly
	From: Webcor Construction LP	Joanne Filipas	To: Turner Construction Com	pan Gary Krutsch	Answered By	<b>/</b> :Arup	Kevi	n Clinch	
Co-A	uthor:								
	REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Reference GT-2201, Installation Sequer	nce Note 5			As described	in Note 5 on she	et GT-2201, sind	ce the	
	Please confirm the reinforcement in the should be installed in the last buttress s	e secondary shafts shaft of each row.			reinforcement shafts along r	shall be installe ows 15 and 16.5	id in the seconda	ıry	



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		ENI	D OF REPORT				
		Report Parameters					
		Project: 30100	Status Class:				
		Sent To:	Run Date: 05/11/2012				
		Restrict Value of: C	Run Time: 01:33 PM				
		From Date:	Operator: NTRAN				
		To Date:	Report Code: PM3012				
		Status:					



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U-0001	First Street El	ectrical or Telecom Trench		Closed	10/25/2010	11/08/2010	11/05/2010	Potentia	
From: Webcor Co	onstruction LP	Joanne Filipas	To: Turner Construction Compan	Daphne Faulkner	Answered By	AECOM Techr	nical Service Eric	Zagol	
Co-Author:									
<b>REQUEST:</b> Ref U-2016, U-20	020 and Attached		SUGGESTION:		ANSWER: Sheet U-2020 the trench is A	Accept Sug call out for the T&T's.	gestion:	correct,	
Sheet 0-2016 ca 2020 calls out the shows it as a AT& AT&T's.	as out a 9-6", 1-4" E e same trench as AT &T's. Please confirm	by PG&E. Sheet U- '&T's. The section In this trench is							
U-0002	Conflict with I	Electrical and Water Pipe Sta	tion 5.50	Closed	10/25/2010	11/08/2010	11/05/2010	Potentia	lly
From: Webcor Co	onstruction LP	Joanne Filipas	To: Turner Construction Company	Daphne Faulkner	Answered By	Webcor Const	ruction LP Jeffre	ey Negley	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Ref U-3408 and a	attached.				Adjust Joint T	rench per U-340	00 General Notes	2, 3, 5	
During the review conflict exists bet and water pipes.	v of the model, we ha tween the joint trench Please advise.	ave found that a n electrical conduits			Construct hyd inch cover (18 adjust joint tre minimum 6-in General Note	rant lateral to m h-inch below streench at lateral cr ch separation at 6.	aintain a minimu et concrete base ossing to mainta crossing per U-3	m 28- e) and in a 3400	
U-0003 From: Webcor Co	Conflict Betwo	een Electrical trench and tele Joanne Filipas	com conduit near station 1.50 To: Turner Construction Compan	<b>Closed</b> Daphne Faulkner	10/25/2010 Answered By	<b>11/08/2010</b> AECOM Techr	<b>11/05/2010</b> nical Service Eric .	<b>Potentia</b> Zagol	lly
REQUEST: Ref U-2007. and	attached		SUGGESTION:		4-6" Electric d	Accept Sug	gestion:	L"	
During our review between the elec near station 1.50	v of the model, we ha trical joint trench and on Minna Street. Pl	ave found a conflict d telecom conduit ease advise.			Telecommuni 3410 Section	cations ductban E.	k, see U-3407 ar	id U-	
U-0004	Telecom and	Water Conflict Station 3.25		Closed	10/25/2010	11/08/2010	11/05/2010	Potentia	lly
From: Webcor Co	onstruction LP	Joanne Filipas	To: Turner Construction Compan	Daphne Faulkner	Answered By	AECOM Techr	nical Service Eric	Zagol	-
Co-Author:				•	-			0	



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<b>REQUEST:</b> Ref U-2007 and attached. During our review of the model, we have found that the water latereal running north on Minna street is in conflict with telecom conduits in the joint trench. Please advise.				SUGGESTION:       ANSWER:       Accept Suggestion:         Adjust Joint Trench per U-3400 Generation 6.       Adjust Joint Trench per U-3400 Generation 6.         Construct hydrant lateral to maintain a inch cover (18-inch below street concruadjust Joint Trench at lateral crossing.						
U-0005		Water, Telecor	n and Electrical Conflict at	Station 5.50	Closed	10/25/2010	11/08/2010	11/05/2010	Potentia	ily 🗌
Fr	om: Webcor Constru	uction LP	Joanne Filipas	To: Turner Construction C	ompan Daphne Faulkner	Answered By	AECOM Techn	ical Service Eric Z	Zagol	
Co-Aut	hor:									
Co-Author: REQUEST: Ref U-2008, U-2030 and attached. During our review of the model, we have found that the water system running in the east/west direction along Minna Street at station 5.50 is in conflict at three locations with the Electrical/Telecom joint trench. Please advise.			ve found that the direction along ict at three locations h. Please advise.	SUGGESTION:		ANSWER: At water latera - Adjust Joint <sup>-5</sup> 5 and 6. - Construct hy inch cover (18 adjust Joint Tr At water main constructed by - Construct wa - AT&T to desi to avoid water	Accept Sugg Is crossing Join French per U-34 drant lateral to r -inch below stre ench at lateral of crossing with 6- v AT&T in Phase ter main as sho gn and construct	gestion: t Trench: 00 General Note: naintain a minimu et concrete base; rossing. 4-inch conduit e II (Sheet U-2030 wn. ct Phase II AT&T ed under TG04.5.	s 2, 3, um 28- ) and D): conduit 1.	
U-0006		Gas and Elect	rical Conduit Conflict		Closed	10/25/2010	11/08/2010	11/05/2010	Potentia	lly
Fr	om: Webcor Constru	uction LP	Joanne Filipas	To: Turner Construction C	ompan Daphne Faulkner	Answered By	AECOM Techn	ical Service Eric Z	Zagol	
Co-Aut	hor:									
R R A	EQUEST: lef U-2008, U-2030 a conflict exists betwe onduits near station	and attached. een the 4" HPG a 6.45. Please ad	and electrical vise.	SUGGESTION:		ANSWER: Electrical trend +/- as shown o Utilities Projec TG04.5.1. The these trenches	Accept Sugg ches at STA 6+4 on Sheet U-2030 t Phase II work e FINAL alignme s will be coordin	gestion: 42 +/- and at STA ) are Relocation of Not Included in P ent and elevation ated and designe	6+85 of ackage of d by	



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					others pendin through the T into the Trans shown in She located below Notes 2, 3, 5 allow conduits	g the conduit pe ransit Center pe it Center West ( et U-3410 Section the 4-inch HPG and 6 adjust Join to stub out belo	netration elevation rimeter shoring v Center Electric V on Q electric duc . Per U-3410 Gent Trench at cros ow the 4-inch HP	ons vall and ault. As tback is eneral sings to G.	
U-0007	Water and Ele	ectrical Conduit Conflict at S	tation 6.50	Closed	10/25/2010	11/08/2010	11/05/2010	Potentia	ly
From: Webcor	Construction LP	Joanne Filipas	To: Turner Construction C	ompan Daphne Faulkner	Answered By	AECOM Techr	ical Service Eric	Zagol	
Co-Author:								0	
REQUEST			SUGGESTION			Accent Sug	nestion:		
Ref U-2030 a	nd attached.		COOLEMON.		Electrical tren	ches at STA 6+	42 +/- and at ST/	A 6+85	
The water line conflict with a advise.	e running east/west alon n Electrical trench at sta	g Minna street is in ation 6.45. Please			+/- as shown Utilities Projec TG04.5.1. Th these trenche others pendin through the T into the Trans 2030 elevatio the 8-inch wa	on Sheet U-203( ct Phase II work le FINAL alignm s will be coordin g the conduit per ansit Center per it Center West ( n shows the duc ter in Minna Stre	D are Relocation Not Included in I ent and elevatior ated and design netration elevation rimeter shoring v Center Electric V tbancks crossing tet.	of Package of ed by ons vall and ault. U- g under	
U-0008	Gas and Wate	r Conflict at Station 7.30		Closed	10/25/2010	11/08/2010	11/05/2010	Potentia	lly 🔄
From: Webcor	Construction LP	Joanne Filipas	To: Turner Construction C	ompan Daphne Faulkner	Answered By	AECOM Techr	ical Service Eric	Zagol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	destion:		
Ref U-2009 a	nd attached.				Adjust Joint T	rench per U-340	0 General Notes	2, 3, 5	
A conflict exis 7.30 along Mi	ts between the HPG and nna Street. Please advi	d water line at station ise.			and 6. Construct hyc inch cover (18 adjust joint tre minimum 6-in Note 6 with ap	rant lateral to m B-inch below stree ench at lateral cr ch separation at oproval from PG	aintain a minimu et concrete base ossing to mainta crossing per U-3 &E on-site inspe	m 28- e) and in a 3400 ctor.	



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U-0009	Joint Trench a	nd Sewer Conflict on Firs	t Street at Station 9.25	Closed	10/25/2010	11/08/2010	11/05/2010	Potential	ly 🗌
From: Web	ocor Construction LP	Joanne Filipas	To: Turner Construction Co	mpan Daphne Faulkner	Answered By	AECOM Techi	nical Service Eric 2	Zagol	
REQUEST Ref U-200 The sewer station 9.2 electrical ju	<b>F:</b> 9 and attached <sup>1</sup> line running in the north so 5 along First street is in cor oint trench. Please advise.	uth direction at flict with the	SUGGESTION:		ANSWER: Adjust Joint Tr and 6. Joint Trench o shown in U-34	Accept Sug rench per U-340 crossing 10-inch 109 and U-3031	gestion: )0 General Notes SD at STA 9+29 Profile D.	2, 3, 5 +/- is	
U-0010 From: Web	Electrical Line	Transition In Joint Trenc	h from Minna to Shaw Alley To: Turner Construction Co	<b>Closed</b> mpan Daphne Faulkner	10/25/2010 Answered By	<b>11/08/2010</b>	<b>11/05/2010</b> nical Service Eric 2	<b>Potential</b> Zagol	ly 🗌
Co-Author:									
REQUEST Ref U-340 Section Q/ north side same 5" at trench as i these elec Please ad	F: 8, Q/U-3410, P/U-3410 atta /U-3410 shows a 5" and 2" of of the joint trench. Section nd 2" electrical lines on the it turns north on Shaw Alley trical lines to cross within th vise.	ched. electrical line on the P/U-3410 shows the west side of the joint . Is the intent for e joint trench?	SUGGESTION:		ANSWER: No. The 5-inc Q/U-3410 sho Joint Trench	Accept Sug th and 2-inch ele uld be located o	gestion:	Section of the	
U-0011	Manhole #203	Elevation Conflict		Closed	10/25/2010	11/08/2010	11/05/2010	Potential	ly 🗌
From: Web	ocor Construction LP	Joanne Filipas	To: Turner Construction Co	mpan Daphne Faulkner	Answered By	AECOM Tech	nical Service Eric 2	Zagol	
Co-Author:									
REQUEST Ref U3031	<b>r:</b> , U3007 and attached.		SUGGESTION:		ANSWER: Construct sew	Accept Sug	gestion:	grade	



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Detail B/U-3031 21.75 however Please confirm	l shows the elavtion o U-3007 calls out an el what the elavation of	f manhole #203 at levation of 22.0. Manhole #203 is.			at EL 22.0 +/-	as shown on Sl	neet U-3007.		
U-0012	Electrical/Tele	ecom Conflicts between Pl	an and Section	Closed	10/25/2010	11/08/2010	11/05/2010	Potential	ly 🗌
From: Webcor C	Construction LP	Joanne Filipas	To: Turner Construction Co	mpan Daphne Faulkner	Answered By	AECOM Techr	nical Service Eric	Zagol	
Co-Author:								Ū	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Ref U-1108. U4	000, H/4001 and atta	ched.			Existing Topo	graphic and Util	ity Survey Sheets	s and	
1. Section H/U- the (E)T(NR) ho SS. Please adv	4001 shows the (E)(6) owever the plans show vise.	)4"E(D) just north of v it north of the (E)			Sheet U-1108 (E) sewer. Se subject (E)(6) shown. The h Section H on a location show Survey Sheets	show the horizo ection H on Shee 4"(D) at two loca orizontal locatic Sheet U-4001 si h in the Existing s and Sheet U-1	ontal location nor et U-4001 shows ations, one is income no of the subject of hould be consisted Topographic and 108.	th of the the prrectly duct in ent with d Utility	
U-0013 From: Webcor C	Water Connect	c <b>tions at Howard</b> Joanne Filipas	To: Turner Construction Co	<b>Closed</b> mpan Daphne Faulkner	10/25/2010 Answered By	<b>11/08/2010</b> AECOM Techr	<b>11/05/2010</b>	<b>Potentia</b> l Zagol	ly 🗌
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Ref I-3120, U-3	116, U-3112				Construct the	12"x12"x12" TE	E at center line E	EL 13.0	
There is a discr 12" water line of Howard connec and no elevation scale, the eleva connection elev	repancy in the elevatic onnections at Howard tion shows the elevati n is provided on Howa tion should be at 14. vation.	ns called out for the . The First and ion at 13 on U-3120 ard. If we were to Please provide the				511661 0-3120.			
U-0014	Size of Gas L	ine on First Street		Closed	10/25/2010	11/08/2010	11/05/2010	Potential	ly 🗌
From: Webcor C	Construction LP	Joanne Filipas	To: Turner Construction Co	mpan Daphne Faulkner	Answered By	AECOM Techr	nical Service Eric	Zagol	



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Co-Author:									
REQUES	ST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Ref U-20	003, U-2021 and attached.				HPG by PG&I	E on First St. is	4" as shown on S	Sheet U-	
The HPC 2021 is s	G line on U-2003 is 4". The satisfy the sa	ame gas line on U- e gas line?			2003.				
U-0015	LEED Require	ments for RUP work		Closed	10/26/2010	11/09/2010	11/05/2010	Potential	lly
From: We	ebcor Construction LP	Joanne Filipas	To: Turner Construction Com	pan Daphne Faulkner	Answered By	Transbay PMF	C Guy	Hollins	
Co-Author:									
REQUES	ST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
RE: Spe	ecification 01-81-13 1.1.3B				It is not the int	tent of this spec	ification section a	apply	
The spec which ou the limit and inco Street wh this spec enclosed	cification section referenced p tilines the "LEED Project Limi line is drawn on Minna Street rporates First Street, Fremon here they cross the new build cification section that the RUF I are to be incorporated into t	brovides a drawing it". On this drawing, and Natoma Street t Street and Beale ling. Is it the intent of P work in the areas he LEED program?							
U-0016	Street Light R	elocation		Closed	11/02/2010	11/16/2010	11/17/2010	Potential	lly
From: We	ebcor Construction LP	Jeffrey Negley	To: Turner Construction Com	pan Michelle Smith	Answered By	AECOM Techr	nical Service Eric	Zagol	
Co-Author:									
REQUES	ST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Plan/Dra	wing Reference: U-3201				11/8/2010				
Please id where we street lig The conr appear tr. "Steam". Please re	dentify the PG&E manhole or e are to connect the new com ht on the west end of Minna S nection manhole depicted on o be owned by PG&E - the co eview and advise.	a Second St & Minna, duit for the relocated St. the plans does not over is marked			Alignment of o Energy steam light conduit a existing street immediately w Coordinate co TJPA's repres	conduit shall be manhole, adjac s shown, conne light conduit in vest of the existi nnection with P centative.	south of existing cent to existing st cting to and inter PG&E MH E-13 <sup>-</sup> ng steam manho G&E through BL	NRG treet rcepting 19 Ile. HP and	



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are actively working with PG&E to identify options for the Joint Trench alignment west of STA 1+12 if 123 Second Street basement is confirmed in conflict.

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U-0017	JT Conflict wi	th Basement @ Rickenba	cker Rest.	Closed	11/09/2010	11/23/2010	01/12/2011	Potentia	ally
From: Webcor	r Construction LP	Jeffrey Negley	To: Turner Construction Comp	oan Michelle Smith	Answered B	y:AECOM Tech	nical Service Eric	Zagol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:				
Reference she PG&E has bee Minna @ 2nd of days. We his basement stru 2nd St.) exten the sidewalk, a basement app curb on 2nd S Minna. The joi Sheet U-3407 will be in conff Please review	<text></text>				<ul> <li>E. Zagol 1/11</li> <li>See revised A Plans titled "I realignment of the Joint Tree is in conflict we basement be 0+90.</li> <li>Separate from has requeste Joint Trench.</li> <li>Revised draw following:</li> <li>Realignment realignment of revisions to the west of station Second Street Modifications to Second Street Modifications accommodat revisions.</li> <li>RFI-U0050.</li> <li>E. Zagol 11/1</li> <li>AECOM will a</li> </ul>	I/11 Joint Trench Pla Revisions - Minn of Joint Trench. I/7/10 ench as currently with the 123 Sec tween Minna Str m the conflict me d TJPA to add a vings will be prov of Joint Trench of the sewer wes he water line (ve in 1+02 to addre et sidewalk base to Joint Trench reet to accomme at the future Tra e PG&E's Joint 1 8/10 attend the plann	h and Elevation F a Street 12/27/10 shown in Sheet ond Street sidew eet stations 0+79 entioned above, F dditional conduit rided that addres west of station 2- t of station 2+25, rtical and hydran ss the conflict wi ment. sections from Fin odate PG&E's ad ansit Center stub Trench configura	Phase I "for U-3407 alk 5 and PG&E s to the s the FOO, and t lateral) th 123 rst Street ditional outs to tion	
					Second Stree	et on 11/19/10 to	evaluate conflic	t We	



sequence of installation regarding installation of the

AWSS cap and PG&E trench.

Webcor/Obayashi Joint Venture

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See attached sketch from Michael Smith (SFDPW

BOE) indicating work required to abandon existing 10"

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					On 11/17/10 F coordination r option, north o PG&E MH 13 scheduled fiel confirm that th manholes to f Proceed with	PG&E ment xisting &E has ) to xisting pations			
					and Joint Trer accordance w Trench east o Street.	nch shop drawin vith plans and sp f STA 1+12 to S	ng preparation in becifications for the STA 9+31.32 at F	he Joint First	
U-0018	AWSS caps re	quirement		Closed	11/10/2010	11/10/2010	11/24/2010	Potential	ly 🗌
From: \	Webcor Construction LP	Jeffrey Negley	To: Turner Construction	Compan Michelle Smith	Answered By: AECOM Technical Service Eric Zagol				
Co-Author:									
REQU	EST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Please attache	e refer to sheets MA-5, MA-8, U ed.	-1120, U-1121, see			RFI U-0018 to to address a t	be closed as R wo part question	RFI U-0018.1 was n that arose. RFI	s created U-	
Please 5 and I PG&E St.	e confirm that the AWSS caps s MA-8 are required prior to the ir ductbank (sheet U-2021) on th	shown on sheets MA- nstallation of the new e East side of First			marked close	d.	24/10 and the KF	115	
U-0018.1	AWSS Remov	al Work on First Street - S	cope Clarification	Closed	11/22/2010	11/24/2010	11/24/2010	Potential	ly
		Jenrey Negley	I urner Construction	Compan Michelle Smith	Answered By	V:Webcor Const	ruction LP Jeffr	ey Negley	
Co-Autnor:									
REQU	EST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
The Fi	rst Street AWSS cap issue has on. RFI #U-0018 will remain ope	created a two part en to track the			11/23/2010 Eric Zagol				



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RFI #U-0018.	1 addresses scope.				AWSS main in First St.						
Refer to shee Hollins email	ts MA-5, MA-8, U-1120, U attached.	U-1121, and Guy									
Per conversat Michael Smitt Engineering), two AWSS ca Also produce work. Provide scope of work	tions between Guy Hollin: n (mechanical engineer w please clarify the work in ups on First & Howard and a list of material required drawing/ sketch if neces t	s, Eric Zagol and vith DPW Bureau of nvolved to install the d First & Mission St. I to complete the sary to clarify									
U-0019	Street Light Lo	cation		Closed	11/10/2010	11/12/2010	12/02/2010	Potential	ly 🗌		
From: Webcor	Construction LP	Jeffrey Negley	To: Turner Construction Co	mpan Michelle Smith	Answered By	AECOM Tech	nical Service Eric 2	Zagol			
Co-Author:											
<b>REQUEST:</b> Please provid relocated on s	e layout for the Street Lig sheets U-3201 and U-320	ghts shown to be )2.	SUGGESTION:		<b>ANSWER:</b> Rev. 12/1/10	Accept Sug	gestion:				
					As dicussed of Turner, Webc BLHP propose locations by S BLHP due to FDC. SFPUC on street light	during the site vi cor, Trinet and A ed street light m SFPUC BLHP re conflicts with the C BHLP provided locations on 12	sit on 11/24/10 w ECOM to review parkings, the prop quired a final revi e Joint Trench and d additional clarifie /1/10.	ith SFPUC osed ew by d a cation			
					Relocate exis relocated on I STA 2+89.25 (center of pole SFDPW Stan Provide guard Standard Plar light relocated	ting street lights J-3201 to the no (center of pole) e). Locate found dard Plans A-33 d post in accorda n A-33,308 File d to STA 2+89.2	as shown to be orth side of Minna and at STA 4+12 dation, street light 3,308 File No. 87, ance with SFDPW No. 87,210 for the 5.	St. at .03 per 210. / e street			
					**********	*****	*****				
					11 2201 channel	huo otroot link	to to be velocited	from			

U-3201 shows two street lights to be relocated from



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						<ul> <li>the south side of Minna St. to the North Side of Minna St. Based on informal discussions with Jason Dunne (W/O) proposed street light locations have bee marked by Trinet along Minna St. at the locations shown on U-3201. TJPA's representative (Tuner) is scheduling SFPUC BLHP to inspect the proposed locations as marked. Following inspection by SFPUC BLHP, layout dimensions will be provided.</li> <li>U-3202 shows one street light to be recoated and is to be relocated to an existing traffic signal base as noted in U3202. Remove and salvage traffic post and signal equipment as shown on U-3302.</li> </ul>							
U-0019.1 From: Webcor	Light Pole at	Station 4+12.03: Reroute ex David Hungerford	isting conduit To: Turner Constructior	Closed	12/21/2010 Answered By	12/31/2010 <b>y:</b> Turner Constru	02/02/2011 uction Comr Mich	Potentia elle Smith	lly				
Co-Author:													
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:						
Reference: RI 3201	FI #U-0019, attached pi	cture and sheet U-			See RFI Resp	ponse #U-0019.	2						
The streetligh response to R potholed, a nu Per inspection Kawano reque light pole ftg. be privately or	at at station 4+12.03 wa RFI #U-0019. When the umber of existing utilitie n with BLHP on 12/20/2 ests to re-route existing location at STN. 4+12.0 wned by 555 Mission Si	s laid out per the new location was s were discovered. 010, inspector Robert conduits in the new 3. Utilities seem to Please advise.			- 12/27/2010 E Unforeseen c property owne the City right way. TJPA Re owner to reloc	. Zagol condition requirin er to relocate pri of epresentative to cate utilities.	g improvements vately owned utili coordinate with p	by ties in property					
U-0019.2	Light Pole at	Station 4+12.03: Reroute ex	isting conduit	Closed	12/21/2010	12/31/2010	02/02/2011	Potentia	lly				
From: Webcor	r Construction LP	Nhi Tran	To: Turner Construction	Compan Michelle Smith	Answered By	y:Turner Constru	uction Comr Mich	elle Smith					
Co-Author:													
<b>REQUEST:</b> Question from	n RFI #U-0019.1		SUGGESTION:		ANSWER: Electrical con	Accept Sug	gestion:	lission					



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Reference: RF 3201 The streetlight response to R location was p discovered. Pr 12/20/2010, in existing condu location at ST owned by 555	FI #U-0019, attached pic t at station 4+12.03 was FI #U-0019. When the n potholed, a number of ex er inspection with BLHP isspector Robert Kawano uits in the new light pole N. 4+12.03. Utilities see Mission St Please adv	ture and sheet U- laid out per the new isting utilities were on requests to re-route ftg. m to be privately ise.			St. property management. Webcor/ relocate irrigation conduit to be out light pole base location. Coordinate (Julian Marsh 415-546-6036 or Rot 546-6037) to have the irrigation cor the work. RFI U-0019.1 Response - Eric Zag Unforeseen condition requiring imp property owner to relocate privately the City right of way. TJPA Represe coordinate with property owner to r			shi to way of the 55 Mission bos 415- s shut off for 27/2010 ents by d utilities in e to e utilities.		
U-0020	Street Lighting	g Relocation Plan for Minna		Closed	11/15/2010	11/29/2010	11/18/2010	Potentia	ly 🗌	
From: Webcor	Construction LP	Jeffrey Negley	To: Turner Construction Compar	Michelle Smith	Answered By	AECOM Techr	nical Service Eric	Zagol		
Co-Author:										
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Reference: Pla We have beer Engineer and plan for the str installation of relocated stree lights are pow	<b>REQUEST:</b> Reference: Plan/Drawing Reference: U-3201 We have been informally advised that the Design Engineer and BLHP are considering a revised installation plan for the street lights on Minna. This would include the installation of temporary overhead power lines to feed the relocated street light poles, until such time as the new lights are powered from underground by Trinet.				11/18/2010, p At the request temporary ove Minna St. The the attached s temporary ove de-activate ex Minna St. whil street lights.	er Eric Zagol; t of the TJPA, S erhead power fo e temporary ove sketch RFI-U002 erhead street lig tisting undergrou le maintaining p	FPUC BLHP pro r four street lights rhead power is s 20 SKU-01. The ht power allows F and electric ductb ower to the existi	vided s on hown in PG&E to panks in ng		
Here is a sequence as Trinet understands it. Trinet would install the new light pole foundations on the north side of Minna and then relocate the light poles from the south side, per plans. BLHP would then install overhead cable, extending from a pole on 2nd St., to provide power for the lights. During installation of the new foundations, Trinet would install underground conduit from the pole to an adjacent splice box, and then later extend the underground conduit from the splice box to the PG&E power source, as depicted on the plans. Please clarify the street lighting relocation plan currently under consideration. Also, if the BLHP plan to feed the					The temporar can remain ac in Minna Street street light du constructed, a have been coor Since SFPUC existing street new street ligh Minna St. now prior to perform	y overhead pow stive until the two et are constructed ct, bull boxes are and new undergo ordinated with S BLHP provided tights, the consist st with respect has more flexil ming other work	er to existing stre o street light relo- ed, new undergro nd cables are round power con FPUC BLHP and I temporary powe truction sequenc to the other work bility and is not re s in Minna St.	eet lights cations ound nections d PG&E. er to the ee of the as on equired		



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Certificate (or equal) that all connections have been

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lights tempo required to tl accommoda Please revie	rarily from overhead, will he foundation and light po te an overhead power fee w and advise.	ad, will any changes be light pole installation plan to wer feed?							
U-0021	M.H. #501 and	l existing utilties		Closed	11/17/2010	11/22/2010	12/02/2010	Potential	ly
From: Webco	or Construction LP	Jeffrey Negley	To: Turner Construction Compan	Vichelle Smith	Answered By	AECOM Tech	nical Service Eric 2	Zagol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference P	Reference Plan/Drawing: U-3021				Please provide a mark up of U-3021 indicating the				
During potho is to be insta existing utilit Manhole #50	During potholing activities in 1st St. where Manhole #501 is to be installed Trinet has encountered a number of existing utilities which occupy the same intended space for Manhole #501. Please see the attached sketch for				correlate to the section sketch provided. clearly indicate those utilities that were not the field in response to the USA ticket for excavation work.		nes discovered that n provided. Also, that were not mai SA ticket for this	at please rked in	
IUCATIONS AND		unues.			**********	*****			
Some of the Group #5 (re disconnected	se utilities, particularly UT eference sketch) are inten d by PG&E by November	Γ Group #2 and UT ided to be 24th _ Please			E. Zagol 11/2	4/10			
confirm.					In response to	o items listed ab	ove:		
UT Group #/ on the drawi Please advis disconnected	confirm. UT Group #1, which appears to be owned by ATT is noted on the drawings as to be disconnected and demolished. Please advise as to when this utility is scheduled to be disconnected.				1. As of 11/17 energization of 11/24/10. In 1.3 B and 024 Severance Ce	7/10 PG&E has of Minna St. will accordance with 100 3.5 B obtai ertificate (or equ	stated that the de be complete by Specification 02- n in writing a Utili al) that all connec	- 4100 ty ctions	
UT Groups # included in th construct M. utilities must to the owner how to proce Note: due to be answered	#3 and #4 are unidentified he USA markings for this H. #501 per the contract t be removed or relocated ship of these utilities and eed. construction, we are req d by 11/22/10 if possible.	and were not area. In order to drawings these I. Please advise as provide direction on uesting that this RFI			have been dis 2. As of 11/17 AT&T existing terminated wi Howard St. to the existing A exiting duct fr Terminal as s	connected and 710 AT&T has s ducts along Fin th the exception 400 Howard St T&T duct subject om TMH-1887 t hown to be dem	the utility is not a stated that conten st St. have been of the new duct f property. Confir of discursion is o Existing Transb polished on U-112	ctive. ts in rom n that the the ay 1. In	
					024100 3.5 B	obtain in writing	a Utility Severan	ICE	



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disconnected and the utility is not active.

3. Groups #3 and #4 utilities are not shown on AECOM's existing utility plans and as noted in the RFI are not included in the USA markings. Pending direction from TJPA's representative in accordance with Specification Section 00 08 10 the suggested first course of action is to notify USA and request a "No Response Follow Up Message". Other suggested actions have been provided to TJPA PMPC for consideration and direction further direction provided by the TJPA's Representative.

#### \*\*\*\*\*\*

E. Zagol 11/26/10

RE item #1, See attached email and email attachment from Antonio Chan (PG&E) dated 11/24/10 confirming de-energization of electric ducts in Minna St. and First St.

U-0022	SFWD crossir	ngs at Minna St. and 1st	Closed	11/17/2010 12/01/2010 12/03/2010 Potentially
From: Webc	cor Construction LP	Jeffrey Negley	To: Turner Construction Compan Michelle Smith	Answered By: AECOM Technical Servict Eric Zagol
Co-Author:				
REQUEST:	1		SUGGESTION:	ANSWER: Accept Suggestion:
Reference I	Plan/Drawing: U-1002 and	attached PDF.		100 First St. Building Engineer confirmed existing
Current US, which are n located at a from the ma 100 1st. ST recorded in the new wa	A markings have identified ot indicated on the drawin pproximately STA 8+59 a ain in Minna St., North tow . These laterals need to b order to properly docume ter line and the new joint t	d (2) SFWD laterals gs. These are nd 9+06 and extend ard the building of be identified and nt and construct both rench.		After new water in Minna Street is constructed, water services and hydrant laterals are connected; main to main connections are made by CDD, and pipes are secure; and the existing water main is abandoned, demolish existing laterals identified at approx. STA 8+59 and 9+06.

Any additional work associated with these utilities may result in a cost or schedule impact. Please review and provide direction on how we should proceed. DO NOT provide a connection from new water main to existing laterals at approx. STA 8+59 and 9+06.



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Tap record and meter information provided by SFPUC Customer Service Bureau indicates two water laterals to the 100 First St. property entering the building from First Street approximately 50 feet south of Mission St. Meter boxes located along First St. west sidewalk.

Coordinate with the 100 First St. Building Maintenance, Bradford J. Collins (CAC Real Estate Management Co., Inc.), Tel: 415.243.8803 thru the TJPA's representative to confirm that laterals do not provide service to 100 First St. property from Minna Street.

U-00	23 MOP 1 for de-ene	rgizing PG&E at Minna	St. between 1st and 2nd St	Closed	12/01/2010 12/02/2010 12/02/2010 Potentially
	From: Webcor Construction LP	Jeffrey Negley	To: Turner Construction Compa	an Michelle Smith	Answered By: Turner Construction Comr Michelle Smith
Co-/	Author:				
	REQUEST:		SUGGESTION:		ANSWER: Accept Suggestion:
	There is a live PG&E cable in conduit (se First Street at intersection of Minna Stree			Please see attached document. This will be the MOP Form that W/O and its subcontractors are to use for the duration of the project for the deepergraphic	
	Per spec section 01.01.42 / AT2-1 MOP f Shutdown Template, MOP 1 was created email on 11/29/10 requesting signatures PG&E for verificaiton the conduit is de-en enclosed.	for the Utility I and sent via from TJPA and hergized. Copy			disconnect, or demolition of any utilities.
	enclosed. Also per spec section 02 41 00-3 (Vol. 20 Contract # CMCG 08-04 Existing Utilities) Item A - "Coordinate the shut off or disconnect of existing utilities affecting demolition work with the utility owner at least (7) seven calendar days prior to commencing with the work. The TJPA Representative will coordinate with the utility owner to open/close valves on piping, perform piping disconnects required and perform electric and telecommunication disconnects required. Do not proceed with this phase of work before getting the approval from the TJPA Representative".				



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Please provide approval.

In addition, per item B of spec section 02 41 00-3, "Prior to removal of any non-governmental (privately owned) ductbank, conduit or gas lines, obtain in writing a Utility Severance Certificate that all connections have been disconnected and the utility is not active".

Please provide a Utility Severance Certificate per item B above.

Sewer work on First Street is scheduled to start 12/1/10. Work cannot proceed until the conduit is de-energized.

Thank you.

U-002	EBI demo dwgs a	and schedule for coord	ination	Closed	12/02/2010 12/03/2010 12/08/2010 Potentially
	From: Webcor Construction LP	Jeffrey Negley	To: Turner Construction Compan Mich	elle Smith	Answered By: Turner Construction Comr Michelle Smith
Co-A	uthor:				
	REQUEST:		SUGGESTION:		ANSWER: Accept Suggestion:
	Due to ongoing demolition work by EBI, y formal transmission of the most current of drawings and schedule. These documents will be used for coordi the RUP subcontractors. Please forward to W/O as soon as possi	W/O is requesting demolition nation efforts with ble.			Per our utilities working session yesterday (12/7/10), the demolition drawings being used are the original set issued for construction, dated 1/14/10. C. Traylor will follow up to find out if/when Webcor/Obayashi was issued a copy of this set, or issue a new one for your records. The following supplemental documents have been issued since this set:
	Thank you.				<ul> <li>BSE drawing package - issued to W/O as Field Order #002 by TJPA (not attached to this RFI)</li> </ul>
					- Demolition Sequence drawings and manual - (copies attached to this RFI)



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U-0025	;	Capped 6" Water	Status     Date Created     Date Required     Date Answered     Date Answere		/ 🗌					
F	rom: Webcor Constru	uction LP	David Hungerford	To: Turner Construction Compar	n Michelle Smith	Answered By:	AECOM Techn	ical Service Eric 2	Zagol	
Co-Au	thor:									
	REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Reference: Sheet U-1 Order), and attached	002 (dated 2010-10 sketch	-01 - RUP Field			Contact USA a contact inform	and request SFV ation.	VD (or SFPUC C	DD)	
	Trinet has encountered along the center of the east end of Minna St. confirm if the line is a this section of trench water line is removed	ed a capped 6" water e First St. investigati - see attached sketo ctive or dead. We ca to the required 8' de	main running ve trench at the ch . Please annot excavate pth until this			Contact SFWE visit to determi existing cappe	0 (or SFPUC CE ine status (activ d 6" water pipe.	DD) and request f e or abandoned)	ield of	
U-0026	i	Unidentified Facil	ity in First St Invest Trench	- 21'-7 from Curb	Closed	12/03/2010	12/06/2010	12/09/2010	Potentially	/
F	rom: Webcor Constru	uction LP	David Hungerford	To: Turner Construction Compar	n Michelle Smith	Answered By:	AECOM Techn	ical Service Eric 2	Zagol	
Co-Au	thor:									
	REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Reference: Sheet U-1 Order) See attached plan an trench on the east sid investigation, an unid encountered in the tre utility, located 21'-7" f and advise if it needs	002 (dated 2010-10 d section through the le of First St During entified utility/facility ench. Please identify rom face of curb, on to be cut and cappe	-01 - RUP Field e investigative Trinet's was the highlighted the attachment d.			Verizon (MFS in section how either directly b Verizon condu (MFS and MCI labeled as Ver others are unk Plans, protect place until tem Verizon condu	and MCI) conductive ver unknown cool or adjace its. How were that i identified? Dicition (MCI and Nown? Please or Verizon (MFS a porary bridge is its are relocated	its appear to be onduits are indic int to the identifie- te Verizon condu I Verizon confirm <i>I</i> FS) are theirs a clarify. As per De ind MCI) structure constructed and d.	abeled ated d tits those nd the molition es in	
U-0027		Unidentified Facil	ity in First St Invest Trench	- 18'-7 from Curb	Closed	12/03/2010	12/06/2010	12/07/2010	Potentially	'
F	From: Webcor Constru	uction LP	David Hungerford	To: Turner Construction Compar	n Michelle Smith	Answered By:	AECOM Techn	ical Service Eric 2	Zagol	
Co-Au	thor:									
	REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Reference: Sheet U-1 Order)	002 (dated 2010-10	-01 - RUP Field			- Confirm the " utility in respor	unidentified" uti nse to USA ticke	lity was not mark et.	ed by a	
	See attached plan an trench on the east sid investigation, an unid encountered in the tre utility, located 18'-7" f	d section through the le of First St During entified utility/facility ench. Please identify rom face of curb, on	e investigative Trinet's was the highlighted the attachment			- Confirm that procedures (Fi Follow-Up) we utility including information pro	USA No Respor rst, Second and re followed in ar notifying utilitie pvided appears	nse Follow-Up I Third No Respo n effort to identify s. Investigation to be consistent	nse the with	



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	and advise if it needs to be	e cut and capped.				plans indicating	g a PG&E utility			
						- Confirm PG& mark undergro	E was contacte und facilities.	d via USA proces	ss to	
U-0028	B Uni	dentified Facility	in First St Invest Trench	- 14'-7 from Curb	Closed	12/03/2010	12/06/2010	12/07/2010	Potential	ly
I	From: Webcor Construction	n LP	David Hungerford	To: Turner Construction Compar	Michelle Smith	Answered By:	AECOM Techn	ical Service Eric 2	Zagol	
Co-Au	uthor:									
	REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	jestion:		
	Reference: Sheet U-1002 Order)	(dated 2010-10-01	- RUP Field			- Confirm the " the utility in res	unidentified" uti ponse to USA t	lity was not mark iicket.	ed by	
	Order) See attached plan and section through the investigative trench on the east side of First St During Trinet's investigation, an unidentified utility/facility was encountered in the trench. Please identify the highlighted utility, located 14'-7" from face of curb, on the attachment and advise if it needs to be cut and capped.					- Confirm that USA No Response Follow-Up procedures (First, Second and Third No Response Follow-Up) were followed in an effort to identify the utility including notifying utilities. Investigation information provided appears to be consistent with plans indicating a PG&E utility.			nse the with	
						- Confirm PG& mark undergro	E was contacte und facilities.	d via USA proces	ss to	
U-0029	9 Uni	dentified Facility	in First St Invest Trench	- 13'-4" from Curb	Closed	12/03/2010	12/06/2010	12/07/2010	Potential	ly
I	From: Webcor Construction	n LP	David Hungerford	To: Turner Construction Compar	Michelle Smith	Answered By:	AECOM Techn	ical Service Eric 2	Zagol	
Co-Aı	uthor:									
	REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	jestion:		
	Reference: Sheet U-1002 Order)	(dated 2010-10-01	- RUP Field			- Confirm the " the utility in res	unidentified" uti ponse to USA t	lity was not mark iicket.	ed by	
	See attached plan and section through the investigative trench on the east side of First St During Trinet's investigation, an unidentified utility/facility was encountered in the trench. Please identify the highlighted utility, located 13'-4" from face of curb, on the attachment and advise if it needs to be cut and capped.					- Confirm that I followed in an o notifying utilitie	USA follow up p effort to identify s with no respo	rocedures were the utility includin nse.	ng	



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Number         Subject           U-0030         Unidentified Facility in First St Invest Trench - 9'-10" from Curb           From: Webcor Construction LP         David Hungerford         To: Turner Construction           Co-Author:         REQUEST:         SUGGESTION:           Reference: Sheet U-1002 (dated 2010-10-01 - RUP Field Order)         See attached plan and section through the investigative trench on the east side of First St. During Trinet's investigation, an unidentified utility/facility was encountered in the trench. Plase identify the highlighted utility, located 9'-10" from face of curb, on the attachment and advise if it needs to be cut and capped.         To: Turner Construction           U-0031         Unidentified Facility in First St Invest Trench - 7'-2" from Curb         To: Turner Construction           From: Webcor Construction LP         David Hungerford         To: Turner Construction           Co-Author:         REQUEST:         SUGGESTION:           Reference: Sheet U-1002 (dated 2010-10-01 - RUP Field Order)         Suggestion:           See attached plan and section through the investigative trench on the east side of First St. During Trinet's investigation, an unidentified utility/incitity was encountered in the trench. Plase identify the highlighted utility, located 7'-2" from face of curb, on the attachment and advise if it needs to be cut and capped.           U-0031.1         24in Concrete Wall in First St. Invest Trench - 7ft 2in from FOC           From: Webcor Construction LP         David Hungerford         To:		- 9'-10" from Curb	Closed	12/03/2010	12/06/2010	12/10/2010	Potentially	<b>y</b>		
	From: Webcor Constru	uction LP	David Hungerford	To: Turner Construction Compar	n Michelle Smith	Answered By:	AECOM Techni	cal Service Eric 2	Zagol	
Co-A	uthor:									
	REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	estion:		
	Order)	1002 (dated 2010-10-07	I - RUP Field			verizon (MFS and MCI) conduits appear to be labeled in section however unknown conduits are indicated other directly below or adjacent to the identified				
	See attached plan and trench on the east sid investigation, an unide encountered in the tre utility, located 9'-10" fi and advise if it needs	d section through the in le of First St During T entified utility/facility wa ench. Please identify th rom face of curb, on th to be cut and capped.	nvestigative rinet's as e highlighted e attachment			Verizon condui (MFS and MCI labeled as Veri others are unku Plans, protect ` place until tem Verizon condui	ts. How were th ) identified? Did izon (MCI and M nown? Please c Verizon (MFS an porary bridge is ts are relocated	e Verizon condu Verizon confirm IFS) are theirs a larify. As per Der nd MCI) structure constructed and	its those and the molition es in	
U-003	1	Unidentified Facility	in First St Invest Trench	- 7'-2" from Curb	Closed	12/03/2010	12/06/2010	12/07/2010	Potentially	<b>y</b>
	From: Webcor Constru	uction LP	David Hungerford	To: Turner Construction Compar	n Michelle Smith	Answered By:	AECOM Techni	cal Service Eric 2	Zagol	
Co-A	uthor:									
	REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	estion:		
	Reference: Sheet U-1 Order)	002 (dated 2010-10-07	I - RUP Field			- RFI states "u New Section 1 question.	nidentified" utility states "10 AWS	y yet highlighted S", please clarif	utility in y	
	See attached plan and trench on the east sid investigation, an unide encountered in the tre utility, located 7'-2" fro and advise if it needs	d section through the in le of First St During T entified utility/facility wa ench. Please identify th om face of curb, on the to be cut and capped.	nvestigative rinet's as e highlighted attachment							
U-003	1.1	24in Concrete Wall i	n First St. Invest Trench	- 7ft 2in from FOC	Closed	12/23/2010	01/02/2011	12/29/2010	Potentially	<b>y</b>
	From: Webcor Constru	uction LP	David Hungerford	To: Turner Construction Compar	n Kevin Chiu	Answered By:	AECOM Techni	cal Service Eric 2	Zagol	
Co-A	uthor:									
	REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	estion:		
	Reference: Sheet U-1 sketches, and attache USA North	007, attached section ed documentation of no	and plan tifications to			Unknown 24" c Transit Center by the CDSM s	concrete wall to I Project (NIP) wi shoring wall and	be demolished b thin the area imp mass excavation	y bacted n.	
	See the highlighted w through the investigat St.from Stn. 10+00 to Trinet requests directi	rall on attached plan ar tive trench on the East 9+70. Per note 4 on s ion regarding the unide	d section side of First heet U-1007 ntified 24"			Answered by E AECOM 12/29/	ric Zagol /2010			



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	concrete wall found 7 10" cover that was er contract plans. Trinet has this plated as soon as possible. with official direction 12/27/10.	"-2" from the Eas acountered but n but would like to An expedited res on how to procee	at face of curb and ot indicated on the backfill the trench sponse is requested ed with this wall by							
U-0032	2	Unidentified F	acility in First St Invest Tren	ch - 3'-2" from Curb	Closed	12/03/2010	12/06/2010	12/07/2010	Potential	lly
F Co-Au	From: Webcor Constr	uction LP	David Hungerford	To: Turner Construction Co	ompan Michelle Smith	Answered By	AECOM Techr	ical Service Eric	Zagol	
00-Al				SUGGESTION			Accent Sug	nestion:		
	Reference: Sheet U- Order)	1002 (dated 2010	0-10-01 - RUP Field			- Confirm the utility in respo	"unidentified" uti nse to USA ticke	lity was not mark et.	ked by a	
	See attached plan an trench on the east sid investigation, an unid encountered in the tro utility, located 3'-2" fr and advise if it needs	d section throug de of First St Du lentified utility/fac ench. Please ide om face of curb, to be cut and ca	h the investigative uring Trinet's cility was ntify the highlighted on the attachment apped.			- Confirm that procedures (F Follow-Up) we utility including information pr plans indicatir	USA No Respo irst, Second and ere followed in a g notifying utilitie ovided appears ng a AT&Y utility	nse Follow-Up d Third No Respondent of the to identify es. Investigation to be consistent at this location.	onse / the with	
						- Confirm AT8 mark undergro	T was contacte ound facilities.	d via USA proces	ss to	
U-0032	2.1	Unidentified 1	8" Concrete Wall in First St	Invest Trench - 3ft-2in from C	urb Closed	12/23/2010	01/02/2011	12/29/2010	Potential	lly
F	From: Webcor Constr	ruction LP	David Hungerford	To: Turner Construction Co	ompan Kevin Chiu	Answered By	AECOM Techr	ical Service Eric	Zagol	
Co-Αι	ithor:									
	REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Reference: Sheet U- sketches, and attach USA North	1007, attached se ed documentatio	ection and plan n of notifications to			Unknown 18" Transit Center by the CDSM	concrete wall to r Project (NIP) w shoring wall and	be demolished b vithin the area im d mass excavatio	by pacted n.	
	See the highlighted it through the investigation	em on attached tive trench on the	plan and section e East side of First			Answered by AECOM 12/29	Eric Zagol 9/2010			



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St.f	rom Station 10+00 to 9+70. Per no	re 4 on sheet U-							
100 18" and on t	7, Trinet requests direction for the concrete wall found 3'-2" from the 17.5" covered that was encountered the contract plans.	demolition of the East face of curb ed but not indicated							
Trin as s with 12/2	et has this plated but would like to soon as possible. An expedited resp official direction on how to proceed 27/10.	backfill the trench bonse is requested d with this facility by							
U-0033	Unidentified Fa	cility in First St Invest Tre	nch - 5'-8" from Curb	Closed	12/03/2010	12/06/2010	12/07/2010	Potential	y
Fror	n: Webcor Construction LP	David Hungerford	To: Turner Construction Co	mpan Michelle Smith	Answered By	AECOM Techr	ical Service Eric 2	Zagol	
Co-Autho	pr:								
RE	QUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Ref Ord	erence: Sheet U-1002 (dated 2010 er)	10-01 - RUP Field			- Confirm the ' the utility in re	'unidentified" uti sponse to USA	lity was not mark ticket.	ed by	
See attached plan and section through the investigative trench on First St. at Minna St During Trinet's investigation, an unidentified utility/facility was encountered in the trench. Please identify the highlighted utility, located 5'-8" from face of curb, on the attachment and advise if it needs to be cut and capped.					- Confirm that procedures (F Follow-Up) we utility including information pro plans indication	USA No Respo irst, Second and re followed in a g notifying utilitie ovided appears g traffic signal u	nse Follow-Up d Third No Respond n effort to identify es. Investigation to be consistent utility.	onse 7 the with	
					- Confirm SFM mark traffic sig facilities.	ITA was contac gnals and street	ted via USA proc light undergroun	ess to d	
				<b>a</b> i i					
U-0033.1	Unidentified 2i	n Pipe in First St Invest Tr	ench - 5ft-8in from Curb	Closed	12/23/2010	01/02/2011	12/29/2010	Potential	У
Fror	n: Webcor Construction LP	David Hungerford	To: Turner Construction Co	mpan Kevin Chiu	Answered By	AECOM Techr	ical Service Eric 2	Zagol	
Co-Autho	Dr:						_		
REG	QUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Ref ske US/	erence: Sheet U-1007, attached se tches, and attached documentatior A North	ction and plan of notifications to			Confirm expos shown in the F accordance w	ed 2" pipe is Tr Plans. Once con ith Demolition P	affic Signal cond firmed demolish lans.	uit as in	



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c	See attached plan an	d section through the	a investigative			Answered by F				
See attached plan and section through the investigative trench on the East side of First St.from Station 10+00 to 9+70. Per note 4 on sheet U-1007, Trinet requests direction for demolition of the unidentified 2" pipe found 5'- 8" from the East face of curb and 15" covered that was encountered but not indicated on the contract plans.						AECOM 12/29	/2010			
ר פ ע 1	Frinet has this plated as soon as possible. with official direction of 12/27/10.	but would like to bac An expedited respon on how to proceed wi	skfill the trench se is requested ith this facility by							
U-0034		Station 9+10 New	Hydrant Conflict with Sid	dewalk Basement	Closed	12/09/2010	12/20/2010	12/13/2010	Potentiall	у 🗌
F	rom: Webcor Constr	uction LP	David Hungerford	To: Turner Construction Co	mpan Kevin Chiu	Answered By:	AECOM Techn	ical Service Eric 2	Zagol	
Co-Au	thor:									
F	REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: Sheet U-3109 (dated 2010-09-29) During Trinet's potholing for the Joint trench along the North side of Minna St, a basemenet for building "100 First St." was revealed. The basement wall is located just behind the face of curb and extends to more than 8 feet below finish grade. The extent of the basement is unknown, but assumed to run the length of the "100 First St" property. The basement structure is in conflict with the proposed new fire hydrant installation at Station 9+10.						The wall encouside walk base that existed pri Approximate w face is approxi and remove wa width and dept hydrant lateral, on Sheet U-51	Intered appears ment wall for th or to the curren vidth of wall is 2 mately at the fa all to form a tren h per Detail 7 o , riser and hydra 01.	to be an abando the 4 story brick but t 100 First St. but feet and the outs the of curb. Neath the Required tree n U-5101. Constru- ant as shown in D	nned uilding ilding. side y cut nch ruct vetail 2	
F	Please provide layou	tior the fire hydrant.								
U-0035		Installlation Depth	of Storm Drain New Cat	tch Basins	Closed	12/09/2010	12/13/2010	12/13/2010	Potentiall	у 🗌
F	rom: Webcor Constr	uction LP	David Hungerford	To: Turner Construction Co	mpan Kevin Chiu	Answered By:	AECOM Techn	ical Service Eric 2	Zagol	
Co-Au	thor:									
F c E	REQUEST: Reference: Sheet U-3 detail from Departme Engineering	3023, U-3033 (Detail nt of Public Works B	B), Attached uearu of	SUGGESTION:		ANSWER: AECOM has conception limited vertical acceptable. Si maintenance p	Accept Sugg onfirmed with S bends in the 10 FDPW also cor perspective the	gestion: FDPW Hydraulic D-inch culvert run Ifirmed that from clean out on the o	s that are a cast	



Webcor/Obayashi Joint Venture

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Trinet is concerned that the installation depth for many of the new catch basin does not comply with SFDPW Sewer Departent guidelines, specifically regarding access to the traps for the maintenance department. The DPW sewer maintenence crews need to have ready access to the p-trap during flooding emergencies. DPW crews need to be

able to reach the p-trap to, either remove release the flow to the culvert pipe plugged), or rod the culvert line the culvert is plugged). To get some cli- installation guidelines, Trinet had informally ta design engineers at the SF Bureau Hydraulics Department. He advised Trinet that should be installed with center of the grade located between 3 and 4 feet to cross under existing utilities that direct run to the discharge manhol 1/2 degrees where possible as req bends must be used we should lim Please provide the depth of CB#60 To expedite the work in the field, w 12/13/10.	re the cleanout cap and (if the trap bottom is ough the trap (if the arification of the lked to one of the of Engineerring, t new catch basins rap and discharge piping t below the culvert runs are in conflict with a e. Bends should be 22 uired, and if 45 degree it the number to two (2).			basin to manhole such that the 10-inch culvert can be engineered and the catch basin depth can be determined to avoid existing and future utilities.
U-0035.1 Fremont St	reet Storm Drain from CB#60	03 to (E) Manhole	Closed	12/23/2010 01/02/2011 12/28/2010 Potentially
From: Webcor Construction LP	Jason Dunne	To: Turner Construction Comp	oan Kevin Chiu	Answered By: AECOM Technical Service Eric Zagol
Co-Author:				
REQUEST:		SUGGESTION:		ANSWER: Accept Suggestion:
Refer to Sheet U-3023, U-3033 (de 0035	etail B) and see RFI #U-			Based on a site visit on 12/28/10 with Jason Dunne (W/O) and Victor (Trinet) to review exposed trench alignment for 10-inch culvert it was confirmed that the
Per the response to RFI #U-0035, review a drawing showing the prop catch basin (CB# 603) installation the existing manhole on Fremont S	find attached for your osed alignment for the and storm drain run to St.			culvert alignment will clear the new temporary 8-inch water and existing 8-inch water main with adequate separation.
Please confirm this proposed alignment is acceptable or provide another solution.				Alignment as shown in the attached drawing is acceptable.

iron trap is more accessible at a depth of 3 to 4 feet below ground surface.

Please submit subsurface utility investigation information including top, bottom and size of existing utilities along the 10-inch culvert alignment from catch



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***Please confirm this alignment by 12/27/10 if possible.					Note, existing 3" HP Gas immediately west of the catch basin is to be abandoned by PG&E per Sheet U 1123 Demolition and Sequence item 2. Coordinate with PG&E to confirm 3" HP Gas is inactive and can be demolished and removed to facilitate construction of the catch basin and culvert, if required.					
					Answered by AECOM 12/28	Eric Zagol 3/2010				
					************* ************************	*************	********************	********		
					Please indicat water main in and resubmit	te the location of Fremont Street for review.	f new temporary in the section dr	8-inch awing		
					Answered by AECOM 12/27	Eric Zagol 7/2010				
U-0036	Unidentified	6in Pipe Encountered in Fre	mont St 7ft-9in from FOC	Closed	12/15/2010	12/25/2010	12/30/2010	Potential	ly 🗌	
From: Webc	or Construction LP	David Hungerford	To: Turner Construction Com	pan Kevin Chiu	Answered By	AECOM Tech	nical Service Eric	Zagol		
Co-Author:								-		
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Reference: S Trinet RFI 2 North	Sheet U-1008, attached s 8 and documentation of i	sketch of section from notifications to USA			Unknown unfo	preseen existing	utility condition.	ion 1 3		
See the atta at station 4+ 1008, Trinet the unidentif curb and 3' trenching wh Per the sam demolition" of	Ached section through the -40 on Fremont St. Per n hereby requests that We fied 6" steel pipe at 7'-9" 4" to cover that Trinet en hich was not indicated on he note, Trinet requests " of this line.	e investigative trench hote 4 on sheet U- ebcor "notify TJPA" of from the east face of iccountered in their in the contract plan. direction on the			EXISTING UT specification ( TRENCHING proceed with 1 interfering util procedures or proposed by t Pipe: If condu investigation v	with specificat ILITIES NOT If 020630 section OPERATIONS the following in tites that are un other non dest he contractor have uctive material, via electromagn	ADICATED and 4.1 POTHOLING paragraph C, ple order to identify a known after all sp ructive methods ave been exhaust perform subsurfa etic detection (or	AND ase ll ecified ed: ce other		
Trinet has th as soon as p	nis plated but would like t possible. An expedited re	to backfill the trench esponse is requested			nondestructive nearest vault,	e methods) to tr pull box, manh	ace utility back to	ntify		



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with official direction on how to proceed with this facility by 12/16/10.

with official direction on how to proceed with this facility by

owner and content. If nonconductive, excavate along pipe alignment to expose coating and a joint. Inspect and provide information on coating and joint type. If content is still unknown, tap each line in order to identify contents and operating status of utility (i.e. abandoned or operational.)

Conduit and duct bank: Determine if utility is a charged electric utility utilizing a contractor that performs NETA type work. Determine if telecommunication cables are operational.

Once the utility has been identified including owner and contents, and determined inactive or deenergized, cut and cap utility at the demolition demarcation line shown in the drawings.

Note, 6" steel pipe is in the same alignment as PG&E's excavated manhole 1675. Coordinate with PG&E to see if PG&E has demolished this line.

nondestructive methods) to trace utility back to

U-0037	Unidentified 2in	Unidentified 2in Facility Encountered in Minna St 7in from FOC			12/15/2010	12/25/2010	12/30/2010	Potentially		
F	From: Webcor Construction LP David Hungerford To: Turner Construction Compan Ke				Answered By	ical Service Eric	Zagol			
Co-Au	thor:									
I	REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:			
l f	Reference: Sheet U-1007, attached ske from Trinet RFI 16 and Documentation	etch of section of notification to		Unknown unforeseen existing utility condition.						
ι	USA North			In accordance with specification 00 08 10 section 1.3 EXISTING UTILITIES NOT INDICATED and						
S	See the attached section through the in	vestigative trench			specification 020630 section 4.1 POTHOLING AND					
á	at station 2 + 29.68 on Minna St. Per no	ote 4 on sheet U -			TRENCHING OPERATIONS paragraph C, please					
	1007, Trinet "hereby requests that Web	cor "notify TJPA"			proceed with the following in order to identify all					
(	of the unidentified 2" steel line found 7"		interfering utilities that are unknown after all specified							
(	curb and 2'-2" to cover. Per the same note. Trinet requests				procedures or other non destructive methods					
	"direction on the demolition" of this line	· ·			proposed by t	he contractor ha	ve been exhaus	ted:		
-	Trinet has this plated but would like to b	ackfill the trench			Pipe: If condu	uctive material, p	perform subsurfa	ace		
6	as soon as possible. An expedited resp	onse is requested		investigation v	via electromagne	etic detection (or	other			


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12/16/10.	10. nearest vault, pull box, manhole owner and content. If noncond pipe alignment to expose coatir and provide information on coa content is still unknown, tap ea identify contents and operating abandoned or operational.) Conduit and duct bank: Determ charged electric utility utilizing a performs NETA type work. Deter telecommunication cables are of Once the utility has been identified and contents, and determined i energized, cut and cap utility at demarcation line shown in the original of the start of the		ole or valve to ide aductive, excavate ting and a joint. I bating and joint ty each line in order ng status of utility ermine if utility is a g a contractor tha etermine if e operational. htified including or d inactive or de- at the demolition e drawings.	entify e along Inspect pe. If to (i.e. t				
U-0038	Unidentified 4" Facility Encountered in M	inna St 7ft 4in from FOC	Closed	12/15/2010	12/25/2010	12/16/2010	Potentia	lly
From: Webcor C	onstruction LP David Hungerford	To: Turner Construction Con	npan Kevin Chiu	Answered B	y:AECOM Tech	nical Service Eric	Zagol	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: Shee Trinet RFI 17 an North See the attached at station 2 + 29 1007, Trinet "he of the unidentifie of curb and 2'-11 requests "direct	et U-1007, attached sketch of section from ad documentation of notifications to USA d section through the investigative trench .68 on Minna St. Per note 4 on sheet U - reby requests that Webcor "notify TJPA" ad 4" steel line found 7'-4" from north face 1" to cover. Per the same note, Trinet tion on the demolition" of this line.			Confirmed the abandoned P abandoned P energized as energization contents follo PG&E.	at the existing 4 G&E conduit co G&E manhole 1 part of PG&E's work. Demolish wing confirmatio	" steel line is an nnected to the 354 abandoned a Minna Street Sta and remove cond on of abandonme	and de- ge I de- duit and nt by	
Trinet has this p as soon as poss with official direc 12/16/10.	lated but would like to backfill the trench ible. An expedited response is requested tion on how to proceed with this facility by							



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U-0039		Unidentified 4"	' Facility Encountered in M	nna St 6ft 7in from FOC	Closed	12/15/2010	Tee       Date       Date       Cost         Answered       12/25/2010       12/16/2010       Potentially         swered By: AECOM Technical Service Eric Zagol         SWER:       Accept Suggestion:		y	
Fro	m: Webcor Constr	uction LP	David Hungerford	To: Turner Construction Compan	Kevin Chiu	Answered By	AECOM Techr	nical Service Eric	Zagol	
Co-Auth	or:									
RE	EQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: Sheet U-1007, attached sketch of section from Trinet RFI 18 and documentation of notifications to USA North See the attached section through the investigative trench at station 2 + 29.68 on Minna St. Per note 4 on sheet U - 1007, Trinet "hereby requests that Webcor "notify TJPA" of the unidentified 4" steel line found 6'-7" from north face of curb and 2'-3" to cover. Per the same note, Trinet requests "direction on the demolition" of this line. Trinet has this plated but would like to backfill the trench as soon as possible. An expedited response is requested with official direction on how to proceed with this facility by 12/16/10.					Confirm that t PG&E condui manhole 1354 PG&E's Minna Demolish and confirmation o	he existing 4" st t connected to th a bandoned an a Street Stage I remove conduit of abandonment	eel line is an aba ne abandoned P( d de-energized a de-energization of and contents for by PG&E.	ndoned S&E s part of vork. lowing		
U-0040		Unidentified 4in	n Facility Encountered in N	inna St 5ft from FOC	Closed	12/15/2010	12/25/2010	12/16/2010	Potential	у 🗌
Fro Co Auth	om: Webcor Constr	uction LP	David Hungerford	Io: Turner Construction Company	Kevin Chiu	Answered By	AECOM Techr	nical Service Eric	Zagol	
CO-Autin										
RE				SUCCESTION			• • •			

U-0041

Closed

12/15/2010 12/25/2010 12/30/2010 Potentially

From: Webcor Construction LP David Hungerford To: Turner Construction Compan Kevin Chiu

Answered By: AECOM Technical Service Eric Zagol



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Co-Author:								
REQUEST: Reference: Shee Trinet RFI 20 and North See the attached at station 2 + 29. 1007, Trinet "her of the unidentifie of curb and 18" t requests "direct Trinet has this pl as soon as poss with official direct 12/16/10.	et U-1007, attached sketch of section from d documentation of notifications to USA d section through the investigative trench .68 on Minna St. Per note 4 on sheet U- reby requests that Webcor "notify TJPA" d 1" steel line found 2' 9" from north face o cover. Per the same note, Trinet ion on the demolition" of this line. ated but would like to backfill the trench ible. An expedited response is requested tion on how to proceed with this facility by	SUGGESTION:		ANSWER: Unknown unfo In accordance EXISTING UT specification 0 TRENCHING 0 proceed with th interfering utilit procedures or proposed by th Pipe: If condu investigation v nondestructive nearest vault, owner and com pipe alignment and provide int content is still identify conten abandoned or Conduit and du charged electr performs NET, telecommunica	Accept Sug reseen existing with specificati ILITIES NOT IN 20630 section of DPERATIONS the following in of ties that are unlother non destri- ties contractor has the contractor has the contractor has the contractor has the shown in the test of the shown in the	gestion: utility condition. on 00 08 10 section UDICATED and 4.1 POTHOLING A paragraph C, plean paragraph C, plean porder to identify all known after all spec- ructive methods ave been exhauster perform subsurface etic detection (or con- ace utility back to ple or valve to iden- iductive, excavater ting and a joint. In pating and joint type ach line in order to g status of utility is a g a contractor that etermine if e operational. httfied including ow a drawings.	n 1.3 AND se crified d: e ther tify along ispect e. If o .e.	
U-0042 From: Webcor Co	Unidentified 6in Facility Encountered ir	Minna St 6in from FOC To: Turner Construction Comp	Closed an Kevin Chiu	12/15/2010 Answered By:	<b>12/25/2010</b> AECOM Techr	<b>12/16/2010</b> nical Servic∉ Eric Z	<b>Potentia</b>	lly

**Co-Author:** 

#### REQUEST:

Reference: Sheet U-1007, attached sketch of section from Trinet RFI 21 and documentation of notifications to USA North

#### SUGGESTION:

# Answered By: AECOM Technical Service Eric Zagol

#### ANSWER: Accept Suggestion:

Confirm with PG&E that the 6" steel line identified is an abandoned PG&E 6" cast iron gas main. Demolish abaondoned 6" cast iron pipe and contents as



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### 30100 - Transbay Transit Center Project

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See the at at station 2 1007, Trin of the unid curb and 3 "direction of Trinet has as soon as with officia 12/16/10.	tached section through the i 2 + 29.68 on Minna St. Per r et "hereby requests that We lentified 6" steel line found 6 36" to cover. Per the same n on the demolition" of this line this plated but would like to s possible. An expedited res I direction on how to procee	investigative trench note 4 on sheet U- ebcor "notify TJPA" " from north face of note, Trinet requests e. backfill the trench ponse is requested ed with this facility by			required to co	nstruct the Joint	t Trench.		
U-0043	Fire Hydrant at	t St. 5+70 on Minna		Closed	12/13/2010	12/23/2010	12/14/2010	Potentia	lly
From: Web	ocor Construction LP	Mario Saldana Sr.	To: Turner Construction Con	npan Kevin Chiu	Answered By	AECOM Techr	nical Service Eric Z	agol	
Co-Author:	r.		SUCCESTION			<b>A</b>			
INFORMA See the at location as 5+70. Thi apron not U-2008. E this issue currently b oinstall co provide dir We propos	<b>REQUEST:</b> INFORMATION NEEDED See the attached picture of the proposed fire hydrant location as indicated by drawings on Minna St. at Stn. 5+70. This location is in conflict with an existing driveway apron not shown on drawing # U-2008. Eric Zagol from AECOM is aware and has seen this issue in the field. NOTE - Due to the 8" water line currently being installed, the location for the "T" section oinstall could be as early as Tuesday the 14th. Please provide direction by 12-14-10 if possible.		SUGGESTION:		Due to the close the suggested east of the exi	Accept Sug se proximity to t location, please sting driveway a	gestion: the existing street e construct the hyd at STA 5+87.5.	light at drant	
Stn. 5+64.	Please advise.	ft x 6.5ft Wall Encountered i	n Minna St 1ft from FOC	Closed	12/15/2010	12/25/2010	12/20/2010	Potentia	lly 🗔

To: Turner Construction Compan Kevin Chiu

From: Webcor Construction LP

David Hungerford

Answered By: AECOM Technical Service Eric Zagol

**Co-Author:** 

REQUEST:

Reference: Sheet U-1007, attached sketch of section from

SUGGESTION:

ANSWER: Accept Suggestion: Demolish and remove structure as required to



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Trinet RFI 22 North	and documentation of r	notifications to USA			construct Joi	nt Trench.			
See the attact at station 2 + 1007, Trinet h the unidentifie from north fac encountered i note, Trinet re structure.	hed section through the 29.68 on Minna St. Per hereby requests that We ed 4' x 6.5' wall (bottom ce of curb and 18" to co in the east wall of the tru equests "direction on th	investigative trench note 4 on sheet U- boor "notify TJPA" of was not found) at 1' ver that Trinet ench. Per the same te demolition" of this							
Trinet has this as soon as po with official dir 12/16/10.	s plated but would like to ssible. An expedited re rection on how to proce	o backfill the trench sponse is requested ed with this facility by							
U-0045 From: Webcor	Unidentified ( r Construction LP	Concrete Wall Encountered David Hungerford	in Minna St in line with FOC To: Turner Construction Compa	<b>Closed</b> an Kevin Chiu	12/15/2010 Answered B	12/25/2010 <b>V</b> :AECOM Tech	<b>12/29/2010</b>	Potential	ly 🗌
Co-Author:		6						9	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: Sh	heet U-1007, attached s	sketch of section from			Two part que	stion, responses	are as follows:		
North	bed section through the	investigative trench			1. In reference Representation	te to the exposed we to confirm the	d concrete wall, T. at the concrete wa	JPA II	
at station 2 + 1 1007, Trinet h	29.68 on Minna St. Per hereby requests that We	note 4 on sheet U- ebcor "notify TJPA" of			with concrete St. building.	during construct	tion of the 101 Se	econd	
the unidentifie line with the n encountered i requests "dir Also, this ward	ed concrete wall (bottom north face of curb and 30 in their trenching. Per th ection on the demolitior I may effect Trinet's abil Station 2:12	n was not found) in 0" to cover that Trinet ne same note, Trinet n" of this structure. lity to build the			2. In reference build the cato accordance v basin location	te to "this wall m thbasin at Statio vith the contract n to identify any	ay effect Trinet's a n 2+13", pothole i documents at cat conflicts.	ability to n ch	
Trinet has this as soon as po with official dii 12/16/10.	s plated but would like to ossible. An expedited re rection on how to proce	o backfill the trench sponse is requested ed with this facility by			Answered by AECOM 12/2	Eric Zagol 9/2010			



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U-0046	Unidentified C	concrete Wall Encountered	in Fremont St in line with FOC	Closed	12/15/2010	12/25/2010	12/29/2010	Potential	ly 🗌
From: Webco	r Construction LP	David Hungerford	To: Turner Construction Compan	Kevin Chiu	Answered By	AECOM Techr	nical Service Eric	Zagol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: S Trinet RFI 24 North	heet U-1008, attached sl and documentation of n	ketch of section from otifications to USA			Unknown con Center Projec CDSM shorin	crete wall to be et (NIP) within the g wall and mass	demolished by T e area impacted excavation.	ransit by the	
See the attact at station 4+4 1008, Trinet I the unidentifie not found) at Trinet encour indicated on a requests "dir Trinet has thi as soon as p with official d 12/16/10.	thed section through the 40 on Fremont St. Per no hereby requests that Wel ed concrete structure wai the east face of curb and thered in their trenching w the contract plan. Per the rection on the demolition" s plated but would like to ossible. An expedited res irection on how to procee	investigative trench be 4 on sheet U- bcor "notify TJPA" of II (the bottom was d 18" to cover that which was not e same note, Trinet ' of this structure. b backfill the trench sponse is requested ed with this facility by in Pipe Encountered in Fre	mont St 5ft-8in from FOC	Closed	Answered by AECOM 12/29	Eric Zagol 9/2010 12/25/2010	12/30/2010	Potential	ly []
From: Webco	r Construction LP	David Hungerford	To: Turner Construction Compan	Kevin Chiu	Answered By	AECOM Techr	nical Service Eric	Zagol	•
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: S	heet U-1008, attached sl	ketch of section from			Unknown unfo	oreseen existing	utility condition.		
North					In accordance	e with specificati	on 00 08 10 sect	tion 1.3	
See the attact at station 4+4 1008, Trinet I the unidentific curb and 4'-3 trenching whit Per the same demolition" o	thed section through the 40 on Fremont St. Per no hereby requests that Wel ed 3"steel pipe at 5'-8" fro to cover that Trinet enc ich was not indicated on a note, Trinet requests "of f this line.	investigative trench te 4 on sheet U- bcor "notify TJPA" of om the east face of ountered in their the contract plan. direction on the			EXISTING UT specification ( TRENCHING proceed with interfering util procedures of proposed by t Pipe: If cond	FILITIES NOT IN 220630 section 4 OPERATIONS the following in c ities that are unl r other non destr he contractor ha uctive material, j	IDICATED and 4.1 POTHOLING paragraph C, ple order to identify a known after all sp ructive methods ave been exhaus perform subsurfa	AND ease all becified ted: ace	
Trinet has thi as soon as p with official d 12/16/10.	s plated but would like to ossible. An expedited res irection on how to procee	backfill the trench sponse is requested ad with this facility by			nordestructiv nondestructiv nearest vault, owner and co pipe alignmer and provide ir content is still	the electromagnic e methods) to tra- pull box, manho ntent. If noncon to expose coan formation on co unknown, tap e	ace utility back to ble or valve to ide ductive, excavat ting and a joint. bating and joint ty ach line in order	other o entify e along Inspect vpe. If to	



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									<u></u>
					identify conter abandoned or	nts and operatin operational.)	g status of utility	(i.e.	
					Conduit and d charged electr performs NET telecommunic	uct bank: Deter ic utility utilizing A type work. De ation cables are	rmine if utility is a a contractor tha etermine if e operational.	a It	
					Once the utilit and contents, energized, cut demarcation li	y has been iden and determined and cap utility a ne shown in the	tified including of l inactive or de- at the demolition e drawings.	wner	
	Unidentified 2	in Dine Encountered in Fra	nont St. 6ft 10in from FOC	Classed	42/45/2040	42/25/2040	42/20/2010	Detential	
U-0046				Closed	12/15/2010	12/25/2010			
Co-Author:	Construction LP	David Hungerford	<b>10:</b> Turner Construction Corr	npan Kevin Chiu	Answered By	AECOM Techr	nical Service Eric	Zagol	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: Sh	eet U-1008, attached s	ketch of section from			Unknown unfo	preseen existing	utility condition.		
North	ed section through the	investigative trench			In accordance EXISTING UT	with specification	on 00 08 10 sect IDICATED and	ion 1.3	
at station 4+40 1008, Trinet he the unidentified curb and 18" to trenching which	o on Fremont St. Per no preby requests that We d 3" steel pipe at 6'-10" o cover that Trinet enco h was not indicated on	te 4 on sheet U- bcor "notify TJPA" of from the east face of puntered in their the contract plan.			TRENCHING proceed with t interfering utili procedures or proposed by th	OPERATIONS he following in c ties that are unl other non destr he contractor ha	paragraph C, ple order to identify a known after all sp uctive methods we been exhaust	becified	
demolition" of t	this line.	direction on the			Pipe: If condu	ictive material, p	perform subsurfa	ce	
Trinet has this as soon as pos with official dire 12/16/10.	plated but would like to ssible. An expedited res ection on how to procee	b backfill the trench sponse is requested ed with this facility by			nondestructive nearest vault, owner and cor pipe alignmen and provide in content is still identify conter abandoned or	e methods) to tra pull box, manho ntent. If noncon t to expose coa formation on co unknown, tap e nts and operatin operational.)	ace utility back to ble or valve to ide ductive, excavate ting and a joint. I ating and joint ty ach line in order g status of utility	e along Inspect pe. If to (i.e.	



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					uct bank: Dete ic utility utilizing A type work. De ation cables are y has been iden and determined and cap utility ne shown in the	rmine if utility is a g a contractor that etermine if e operational. htified including ow d inactive or de- at the demolition e drawings.			
U-0049 From: We	Unidentified 1in Pi	i <b>pe Encountered in Fren</b> David Hungerford	nont St 6ft-10in from FOC	Closed	12/15/2010 Answered By	12/25/2010	12/30/2010	Potentia	lly
Co-Author:		Bavia Hangonora			,			agoi	
REQUES	ST:		SUGGESTION:		ANSWER:	Accept Sug	aestion:		
Referenc Trinet RF North See the a at station 1008, Trin the unide curb and trenching Per the s demolitio Trinet has as soon a with offici 12/16/10.	e: Sheet U-1008, attached sketch I 27 and documentation of notific attached section through the inves a 4+40 on Fremont St. Per note 4 net hereby requests that Webcor entified 1" steel pipe at 6'-10" from 4'-3" to cover that Trinet encount g which was not indicated on the c ame note, Trinet requests "direct n" of this line. s this plated but would like to bac as possible. An expedited respon- ial direction on how to proceed wit.	n of section from rations to USA stigative trench on sheet U- "notify TJPA" of the east face of ered in their contract plan. tion on the kfill the trench se is requested th this facility by			Unknown unfo In accordance EXISTING UT specification 0 TRENCHING proceed with t interfering utili procedures or proposed by th Pipe: If condu investigation v nondestructive nearest vault, owner and cor pipe alignmen and provide in content is still identify conter	reseen existing with specificati ILITIES NOT IN 20630 section 4 OPERATIONS he following in o ties that are unl other non destri- ne contractor has active material, j ia electromagne e methods) to tri- pull box, manhor to expose coa formation on co- unknown, tap en- tis and operational b	utility condition. on 00 08 10 section NDICATED and 4.1 POTHOLING A paragraph C, pleat order to identify all known after all spe- ructive methods ave been exhauster perform subsurface etic detection (or con- ace utility back to oble or valve to ider inductive, excavate ting and a joint. In vating and a joint. In spatch line in order to g status of utility (	on 1.3 AND se ecified ed: ed: other htify along hspect e. If o i.e.	

Conduit and duct bank: Determine if utility is a charged electric utility utilizing a contractor that performs NETA type work. Determine if



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	telecommunication cables are operat Once the utility has been identified in and contents, and determined inactiv energized, cut and cap utility at the d demarcation line shown in the drawin				e operational. tified including ov l inactive or de- at the demolition	vner			
					drawings.				
U-0050	Lower Sewer L	_aterals on Minna		Closed	12/15/2010	12/25/2010	01/11/2011	Potential	ly 🗌
From	: Webcor Construction LP	Mario Saldana Sr.	To: Turner Construction Com	pan Kevin Chiu	Answered By	AECOM Techr	nical Service Eric 2	Zagol	
Co-Author	:								
REQ	UEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Refe	rence: Sheets U-3007 & 3008, an	nd Trinet RFI 41			1/11/11				
Two St.ar The 1. St Top o	of the active sewer service lateral e lower than the new sewer main details of each issue are as follow ation 5+05 - Service for #2 Shaw of pipe grade @ FOC for the 6" V	ls potholed on Minna and will not drain. vs: Alley CP sewer lateral is			See revised S titled "Revisio to sewer main	Gewer Plan and E ns - Minna Stree n elevations.	Elevation Phase I et 12/27/10" for re	Plans evisions	
inver is at	t elevation of the new 24" sewer r	main @ Station 5+05			12/27/10				
2. St Top o 13.5 <sup>-</sup> inver appro	ation 2+10 - Service for Anchor & of pipe grade @ FOC for the 6" V 1. The invert elevation is approxin t of the new 18" VCP sewer main oximately 13.4.	Hope Restaurant CP sewer lateral is nately 12.94. The @ Station 2+10 is			Adjust new se accommodate Street Revisio addressing bo	ewer main in Min e existing laterals ons" sheet revision oth this RFI and	na Street to s as shown in the on forthcoming RFI U-0017.	"Minna	
Pleas	se review these issues and advise onse is requested by 12/16/10.	e. An expedited							

U-0051

Unidentified 6in x 6in Concrete Duct Encountered in Fremont St. - 10ft-1in from FC Closed

From: Webcor Construction LP

David Hungerford

To: Turner Construction Compan Kevin Chiu

 12/15/2010
 12/25/2010
 01/01/2011
 Potentially

 Answered By: AECOM Technical Service Eric Zagol

**Co-Author:** 



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## 30100 - Transbay Transit Center Project

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Date

Date

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REQUEST: Reference: Shea Trinet RFI 30 an North See the attache at station 4+40 of 1008, Trinet her the unidentified east face of curf their trenching w plan. Per the sa demolition" of th Trinet has this p as soon as poss with official direct 12/16/10.	et U-1008, attached ske d documentation of no on Fremont St. Per note eby requests that Web 6in x 6in concrete duct o and 5' to cover that Ti hich was not indicated me note, Trinet request is line. lated but would like to I sible. An expedited resp ction on how to proceed	etch of section from tifications to USA nvestigative trench e 4 on sheet U- icor "notify TJPA" of at 10'-1" from the trinet encountered in a on the contract its "direction on the backfill the trench ponse is requested d with this facility by	SUGGESTION		ANSWER:       Accept Suggestion:         Unknown unforeseen existing utility condition.         In accordance with specification 00 08 10 secti         EXISTING UTILITIES NOT INDICATED and         specification 020630 section 4.1 POTHOLING         TRENCHING OPERATIONS paragraph C, pleat         proceed with the following in order to identify a         interfering utilities that are unknown after all sp         proceed with the following in order to identify a         interfering utilities that are unknown after all sp         proceed with the following in order to identify a         interfering utilities that are unknown after all sp         proceed with the following in order to identify a         interfering utilities that are unknown after all sp         proceed with the following in order to identify a         interfering utilities that are unknown after all sp         proceed with the following in order to identify a         interfering utilities that are unknown after all sp         procedures or other non destructive methods         proposed by the contractor have been exhaust         Pipe:       If conductive material, perform subsurfaction endestructive methods) to trace utility back to         nearest vault, pull box, manhole or valve to ide       owner and content. If nonconductive, excave to         pipe alignment to expose coating and a joint. If       and provide informa		ion 1.3 AND ase ll ecified ed: ce other ntify e along nspect pe. If to (i.e.		
U-0052	Unidentified 12	in Pipe Encountered in Fre	emont St 11ft-6in from FOC	Closed	PG&E to see i	if PG&E has de 12/25/2010	molished this line	Potentia	lly 🗌
From: Webcor C Co-Author:	onstruction LP	David Hungerford	To: Turner Construction Co	mpan Kevin Chiu	Answered By	AECOM Tech	nical Service Eric	Zagol	



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REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: S Trinet RFI 32 North	heet U-1008, attached s and documentation of n	sketch of section from notifications to USA			Confirm with an abandone Following cor	PG&E that the 1 d PG&E 12" cas ofirmation from F	2" steel line identif t iron gas main. PG&E, cut and cap	ied is	
See the attac at station 4+4 1008, Trinet the unidentifit of curb and 3 trenching whi Per the same demolition" o	ched section through the 40 on Fremont St. Per no hereby requests that We ed 12" steel pipe at 11'-6 5'-6" to cover that Trinet e ich was not indicated on e note, Trinet requests "of f this line.	investigative trench ote 4 on sheet U- bbcor "notify TJPA" of 5" from the east face encountered in their the contract plan. direction on the			demarcation	line shown on U	-1123.	5	
Trinet has thi as soon as pr with official d 12/16/10.	is plated but would like to ossible. An expedited re- irection on how to proce	o backfill the trench sponse is requested ed with this facility by							
U-0053 From: Webco	Unidentified 3	Bin Pipe Encountered in Free	mont St 10ft-3in from FOC	Closed	12/15/2010 Answered Bi	12/25/2010	12/30/2010	Potentia	lly
Co-Author:		David Hungehold	To: Tumer Construction Comp		Answered B	J-AECOW Tech	nical Service End Za	agoi	
REQUEST:			SUGGESTION:		ANSWER:	Accent Sug	gestion:		
Reference: S Trinet RFI 31	heet U-1008, attached s and documentation of n	sketch of section from notifications to USA			Unknown unf	oreseen existing	utility condition.		
North See the attac at station 4+4 1008, Trinet H the unidentific curb and 3'-1 trenching whi Per the same	ched section through the 40 on Fremont St. Per no hereby requests that We ed 3" steel pipe at 10'-3" 0" to cover that Trinet er ich was not indicated on a note, Trinet requests "	investigative trench ote 4 on sheet U- abcor "notify TJPA" of from the east face of ncountered in their the contract plan. direction on the			In accordance EXISTING U <sup>-</sup> specification TRENCHING proceed with interfering util procedures o proposed by t	e with specificat TILITIES NOT II 020630 section OPERATIONS the following in lities that are un r other non dest the contractor ha	ion 00 08 10 sectio NDICATED and 4.1 POTHOLING A paragraph C, pleas order to identify all known after all spe ructive methods ave been exhauste	n 1.3 ND se cified d:	
demolition" o Trinet has thi as soon as pr with official d 12/16/10.	f this line. is plated but would like to ossible. An expedited re- irection on how to proce	o backfill the trench sponse is requested ed with this facility by			Pipe: If cond investigation nondestructiv nearest vault, owner and co pipe alignmer and provide ir	uctive material, via electromagn re methods) to tr , pull box, manh ntent. If noncor nt to expose coa nformation on co	perform subsurface etic detection (or o ace utility back to ole or valve to iden nductive, excavate ting and a joint. In pating and joint type	e ther along spect e. If	



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			identify conte abandoned or	nts and operating operation	g status of utility (i	.e.	
			Conduit and c charged elect performs NET telecommunic	luct bank: Deter ric utility utilizing A type work. De cation cables are	mine if utility is a a contractor that termine if operational.		
			Once the utili and contents, energized, cu demarcation l	ty has been iden and determined t and cap utility a ine shown in the	tified including ow inactive or de- at the demolition drawings.	ner	
			Note, 3" steel PG&E's exca PG&E to see	pipe is in the sa vated manhole 1 if PG&E has der	me alignment as 675. Coordinate v nolished this line.	vith	

U-005	4 Unidentified Pair	of 4in Pipes Encountere	ed in Fremont St 22ft from FOC Closed	12/15/2010 12/25/2010 12/30/2010 Potentially
	From: Webcor Construction LP	David Hungerford	To: Turner Construction Compan Kevin Chiu	Answered By: AECOM Technical Service Eric Zagol
Co-A	uthor:			
	REQUEST:		SUGGESTION:	ANSWER: Accept Suggestion:
	Reference: Sheet U-1008, attached sketo Trinet RFI 33 and documentation of notifi	ch of section from ications to USA		Unknown unforeseen existing utility condition.
	North			In accordance with specification 00 08 10 section 1.3 EXISTING UTILITIES NOT INDICATED and
	See the attached section through the inve at station 4+40 on Fremont St. Per note	estigative trench 4 on sheet U-		specification 020630 section 4.1 POTHOLING AND TRENCHING OPERATIONS paragraph C, please
	1008, Trinet hereby requests that Webco	or "notify TJPA" of 2' from the west		proceed with the following in order to identify all interfering utilities that are unknown after all specified
	face of curb and 2'-7" to cover that Trinet their trenching which was not indicated of plan. Per the same note. Trinet requests	encountered in n the contract "direction on the		procedures or other non destructive methods proposed by the contractor have been exhausted:
	demolition" of this line.			Pipe: If conductive material, perform subsurface investigation via electromagnetic detection (or other
	Trinet has this plated but would like to ba	ckfill the trench		nondestructive methods) to trace utility back to
	with official direction on how to proceed v 12/16/10.	with this facility by		owner and content. If nonconductive, excavate along pipe alignment to expose coating and a joint. Inspect
				and provide information on coating and joint type. If



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					content is sti identify conte abandoned o	ill unknown, tap e ents and operatin or operational.)	ach line in order g status of utility	to (i.e.	
					Conduit and charged elec performs NE telecommun	duct bank: Dete ctric utility utilizing TA type work. De ication cables are	rmine if utility is a g a contractor tha etermine if e operational.	a It	
					Once the uti and contents energized, c demarcation	lity has been ider s, and determined ut and cap utility line shown in the	tified including o d inactive or de- at the demolition e drawings.	wner	
U-0055	Unidentified 1	0in Pipe Encountered in Fre	emont St 14ft 3in from FOC	Closed	12/15/2010 Anouvered 5	12/25/2010	12/20/2010	Potentia	lly
Co-Author:		David Hungenord	<b>10:</b> Turner Construction Comp	an Kevin Chiu	Answered E	SY:AECOM Techr	nical Service Eric	Zagol	
REQUEST: Reference: Sheet U- Trinet RFI 34 and do North See the attached see at station 4+40 on Fr 1008, Trinet hereby r the unidentified 10" s of curb and 2'-11" to trenching which was Per the same note, T demolition" of this lin Trinet has this plated as soon as possible.	1008, attached si cumentation of n ction through the requests that We steel pipe at 14'-3 cover that Trinet not indicated on frinet requests "o e.	ketch of section from notifications to USA investigative trench ote 4 on sheet U- bcor "notify TJPA" of " from the west face encountered in their the contract plan. direction on the o backfill the trench sponse is requested	SUGGESTION:		ANSWER: Confirm with an abandone Following co existing aban demarcation	Accept Sug PG&E that the 1 ed PG&E 10" cas nfirmation from F ndoned 10" cast i line shown on U	gestion: 0" steel line iden t iron gas main. 2G&E, cut and ca ron gas main at t -1123.	tified is ip the	



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From: Webc	or Construction LP	David Hungerford	To: Turner Construction Com	oan Kevin Chiu	Answered B	<b>y:</b> AECOM Tech	nical Service Eric 2	Zagol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: 3 Trinet RFI 3 North	Sheet U-1008, attached s 5 and documentation of r	sketch of section from notifications to USA			Confirm 4" st conduit as sh demolish in a	eel pipe is SFPU nown in the Plans accordance with	JC BLHP street ligs. Once confirme the Demolition Pla	ght d ans.	
See the atta at station 4+ 1008, Trinet the unidentii of curb and trenching wh Per the sam demolition	tched section through the -40 on Fremont St. Per no hereby requests that We fied 4" steel pipe at 12'-3" 2' to cover that Trinet enc hich was not indicated on he note, Trinet requests " of this line.	investigative trench ote 4 on sheet U- bcor "notify TJPA" of ' from the west face countered in their the contract plan. direction on the							
Trinet has th as soon as p with official 12/16/10.	nis plated but would like to possible. An expedited re direction on how to proce	o backfill the trench sponse is requested ed with this facility by		011	40/45/0040	40/05/0040	40/00/0040	<b>.</b>	
U-0057 From: Webc	or Construction LP	2.5in Pipes Encountered in I David Hungerford	-remont St 4ft 10in from FOC To: Turner Construction Comp	closed	12/15/2010 Answered B	12/25/2010 <b>y:</b> AECOM Tech	12/30/2010 nical Service Eric 2	Potentia Zagol	
Co-Author:			·					0	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: 3 Trinet RFI 3 North	Sheet U-1008, attached s 6 and documentation of r	sketch of section from notifications to USA			Unknown un In accordanc	oreseen existing	utility condition.	on 1.3	
See the atta at station 4+ 1008, Trinet the unidentii west face of in their trend plan. Per the	ched section through the -40 on Fremont St. Per no hereby requests that We fied pair of 2.5" steel pipe curb and 21" to cover tha ching which was not indica e same note, Trinet reque	investigative trench ote 4 on sheet U- bcor "notify TJPA" of at 4'-10" from the at Trinet encountered ated on the contract ests "direction on the			EXISTING U specification TRENCHING proceed with interfering uti procedures c proposed by	TILITIES NOT IN 020630 section OPERATIONS the following in lities that are un or other non dest the contractor ha	NDICATED and 4.1 POTHOLING paragraph C, plea order to identify a known after all sp ructive methods ave been exhaust	AND ase Il ecified ed:	
demolition" Trinet has th as soon as p with official 12/16/10.	of this line. his plated but would like to possible. An expedited re direction on how to proce	o backfill the trench sponse is requested ed with this facility by			Pipe: If conc investigation nondestructiv nearest vault owner and co pipe alignme and provide i content is sti	luctive material, via electromagn ve methods) to tr , pull box, manh- ontent. If noncor nt to expose coa nformation on co Il unknown, tap é	perform subsurface etic detection (or ace utility back to ole or valve to ide nductive, excavate ting and a joint. I bacting and joint ty pach line in order i	ce other ntify a along nspect oe. If to	



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identify contents and operating status of utility (i.e. abandoned or operational.)

Conduit and duct bank: Determine if utility is a charged electric utility utilizing a contractor that performs NETA type work. Determine if telecommunication cables are operational.

Once the utility has been identified including owner and contents, and determined inactive or deenergized, cut and cap utility at the demolition demarcation line shown in the drawings.

Note, 2-2.5" steel pipes are in the same alignment as PG&E's excavated manhole 1674. Coordinate with PG&E to see if PG&E has demolished this line.

J-0058	Unidentified 4i	in Pipe Encountered in Frei	nont St 2ft from FOC	Closed	12/15/2010	12/25/2010	12/29/2010	Potentially
From: Web	bcor Construction LP	David Hungerford	To: Turner Construction Co	ompan Kevin Chiu	Answered By	AECOM Techr	nical Service Eric	Zagol
Co-Author:								
REQUES	T:		SUGGESTION:		ANSWER:	Accept Sug	gestion:	
Reference Trinet RFI North	e: Sheet U-1008, attached sk I 37 and documentation of no	etch of section from otifications to USA			Confirm 4" ste conduit as she demolish in a	eel pipe is SFPL own in the Plans ccordance with t	IC BLHP street I . Once confirme the Demolition P	light ed Plans.
See the at at station 1008, Trin the unider curb and trenching Per the sa demolition	ttached section through the i 4+40 on Fremont St. Per no net hereby requests that Web ntified 4" steel pipe at 2' from 15" to cover that Trinet enco which was not indicated on t ame note, Trinet requests "d n" of this line.	investigative trench te 4 on sheet U- pcor "notify TJPA" of n the west face of untered in their the contract plan. lirection on the			Answered by AECOM 12/2	Eric Zagol 9/2010		

Trinet has this plated but would like to backfill the trench as soon as possible. An expedited response is requested with official direction on how to proceed with this facility by 12/16/10.



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U-0059	Unidentified 6	in Pipe Encountered in Fre	mont St in line with FOC	Closed	12/15/2010	Potentia	lly			
From: Webcor	r Construction LP	David Hungerford	To: Turner Construction Com	pan Kevin Chiu	Answered By: AECOM Technical Service Eric Zagol					
Co-Author:										
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Reference: SI Trinet RFI 38 North	heet U-1008, attached s and documentation of n	ketch of section from otifications to USA			Possible exis Coordinate w Demolition P the TJPA Re	ting Transbay Te ith Existing Tern ans Project (De presentative to c	erminal sewer la ninal & Ramps molition Project) onfirm that the	terals. through		
See the attact at station 4+4 1008, Trinet h the unidentifie	hed section through the 0 on Fremont St. Per no nereby requests that We ed 6" clay pipe at the we	investigative trench ote 4 on sheet U- bcor "notify TJPA" of st face of curb and			Demolition P Sewer lateral Standards.	roject has aband s should be aba	loned sewer late ndoned per SFD	rals. PW		
4'-7" to cover which was no same note, Tr of this line.	that Trinet encountered t indicated on the contra rinet requests "direction	in their trenching act plan. Per the a on the demolition"			Once confirm demarcation	ed abandoned, line shown in the	cut and plug at t Drawings.	he		
Trinet has this as soon as po with official di 12/16/10.	s plated but would like to ossible. An expedited re- rection on how to proces Unidentified 6	b backfill the trench sponse is requested ed with this facility by in Pipe Encountered in Fre	mont St in line with FOC	Closed	12/15/2010	12/25/2010	01/04/2011	Potentia	lly 🗌	
From: Webcor	r Construction LP	David Hungerford	To: Turner Construction Com	pan Kevin Chiu	Answered B	y:AECOM Techi	nical Service Eric	Zagol		
Co-Author:										
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Reference: SI Trinet RFI 39 North	heet U-1008, attached s and documentation of n	ketch of section from otifications to USA			Possible exis Coordinate w Demolition P the TJPA Re	ting Transbay Te ith Existing Tern ans Project (Dep presentative to c	erminal sewer la ninal & Ramps molition Project) confirm that the	terals. through		
See the attack at station 4+4 1008, Trinet h the unidentifie	hed section through the 0 on Fremont St. Per no hereby requests that We ed 6" clay pipe in line wit	investigative trench ote 4 on sheet U- bcor "notify TJPA" of the west face of			Demolition P Sewer lateral Standards.	roject has aband s should be aba	loned sewer late ndoned per SFD	rals. PW		
trenching white Per the same demolition" of	ch was not indicated on note, Trinet requests "of this line.	the contract plan. direction on the			demarcation	line shown in the	e Drawings.	ne		
Trinet has this as soon as po with official di 12/16/10	s plated but would like to ossible. An expedited rea rection on how to procee	b backfill the trench sponse is requested ed with this facility by								



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U-0061	Revised draw	ing for 8" water line on Min	na St. at Second St.	Closed	12/20/2010	12/30/2010	12/21/2010	Potential	ly
From: Webcor	Construction LP	Mario Saldana Sr.	To: Turner Construction Com	npan Kevin Chiu	Answered By	AECOM Techr	nical Service Eric	Zagol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: Sh	Subject         Revised drawing for 8" v         m: Webcor Construction LP       Max         m: Webcor Construction LP       Max         m:       GUEST:         erence: Sheet U-3407       ase provide drawing for the 8" water line and rant installation on Minna St. (reference RFI ponse) west of Station 1+02. Please provide relations should be at this point by Tutter of the construction should be at this point by Tutter of the construction should be at this point by Tutter of the construction should be at this point by Tutter of the construction LP         m: Webcor Construction LP       Dav         m: attached section through the investigative training the investigatit the investigative training the investigatit t				Please see th	e attached sket	ch that shows re	visions	
Please provide hydrant instal response) wes as field constru- pm.	e drawing for the 8" wat llation on Minna St. (refe st of Station 1+02. Plea ruction should be at this	er line and vertical / erence RFI U-0017 se provide A.S.A.P. point by Tuesday			Joint Trench r basement cor	realignment due nflict at 133 Sec	to the sub sidev and St.	valk	
U-0062	Unidentified 8	in Pipe Encountered in Fre	mont St 8ft 3in from FOC	Closed	12/22/2010	01/01/2011	01/03/2011	Potential	ly
From: Webcor	Construction LP	David Hungerford	To: Turner Construction Corr	npan Kevin Chiu	Answered By	AECOM Techr	nical Service Eric	Zagol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: Sh attached sketc	neet U-1008 (dated 201) ch from Trinet	0.09.29) and			Unknown unfo	oreseen existing	utility condition		
See attached s Station 4+40 c Trinet requests found 8'-3" fro that was enco documents. Trinet has this	section through the inve on Fremont St. Per note is direction on an unider im the East face of curb untered but not indicate s plated but would like to	estigative trench at e 4, on sheet U-1008 ntified 8" steel pipe e and 4'-4" to cover ed on the contract			In accordance EXISTING UT specification ( TRENCHING proceed with t interfering util procedures or proposed by t	e with specificati FILITIES NOT IN 020630 section of OPERATIONS the following in of ities that are unl r other non destr the contractor ha	on 00 08 10 sec IDICATED and 4.1 POTHOLINC paragraph C, plo order to identify known after all s uctive methods ave been exhaus	tion 1.3 AND ease all pecified sted:	
as soon as po with official dir 12/27/10.	ssible. An expedited re-	sponse is requested ed with this pipe by			Pipe: If condu- investigation v nondestructive nearest vault, owner and co- pipe alignmer and provide ir content is still identify conten abandoned or	uctive material, via electromagne e methods) to tr pull box, manhe ntent. If noncor t to expose coa nformation on cc unknown, tap e nts and operation r operational.)	berform subsurfa etic detection (o ace utility back to ole or valve to id ductive, excava ting and a joint. tating and joint to ach line in order g status of utility	ace r other o entify te along Inspect ype. If to r (i.e.	
					Conduit and c charged elect performs NET telecommunic	duct bank: Dete ric utility utilizing rA type work. De cation cables are	rmine if utility is a contractor the etermine if e operational.	a at	
					Once the utilit and contents.	ty has been ider and determined	itified including of inactive or de-	owner	



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						energized, cut demarcation li Note, 8" steel PG&E's excav PG&E to see	and cap utility and cap utility and cap utility and shown in the sapirate of the sapirated manhole 1 and the sapirated manhole 1 and show the same show the	at the demolition drawings. me alignment as 675. Coordinate nolished this line	with	
U-0063		Unmarked servio	ce lateral on Minna St. at S	Station 3+08	Closed	12/22/2010	01/01/2011	12/27/2010	Potential	ly 🗌
F Co Au	rom: Webcor Constr	uction LP	David Hungerford	To: Turner Construct	on Compan Kevin Chiu	Answered By	AECOM Techr	ical Service Eric Z	Zagol	
CO-AU										
	Reference: Sheet U-3 During excavation for Street, Trinet encoun lateral at station 3+08 the south side of the during construction an The utility was not shi no new service latera depicted on the new to this location. Please the service. The repa reconnection will nee service is to be maint de-activated, then Tri the connection to the	the 8" water main tered a 1" Polyethy s, that extended int street. The service and Trinet has temp own on any utility p I, or reconnection of water main drawing advise on what sha ir is only temporary d to be performed I ained active. If the net recommends th old main.	29.29) along Minna vlene service o the vacant lot on e was broken orarily capped it. blans. There is also of an existing, gs at or adjacent to ould be done with y and a permanent by the SFWD if the service is to be hat it be shut off at	SUGGESTION.		ANSWER. Unknown serv SFWD throug broken lateral. Answered by I AECOM 12/27	Accept Sug vice lateral to va h TJPA Represe Eric Zagol 7/2010	cant lot. Coordina entative to shut of	ite with if	
U-0064 F	F <b>rom:</b> Webcor Constr	Unidentified Fac	ility in First St. Invest Tre	nch - from Stn. 9+70 to 9 To: Turner Constructi	+59.5 Closed on Compan Kevin Chiu	12/22/2010 Answered By	01/01/2011 AECOM Techr	<b>01/03/2011</b> hical Service Eric 2	<b>Potentia</b> l Zagol	ly 🗌
Co-Au	ithor:									
	REQUEST:	007 and - 11 1	elected of energy	SUGGESTION:		ANSWER:	Accept Sug	gestion:		

Reference: Sheet U-1007 and attached sketch of areas plan view

Unknown unforeseen existing utility condition.

In accordance with specification 00 08 10 section 1.3



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See attached, plan views of the investigative trench on the East side of First St. West of the concrete MUNI median. from Stn. 9+70 to 9+59.5. Per note 4 on sheet U -1007, Trinet requests direction on the 4" Cardboard Pipe found 2'-0" West of the concrete MUNI median face of curb and 3'-6" to cover that was encountered but not indicated on the plans.

Trinet has this plated but would like to backfill the trench as soon as possible. An expedited response is requested with official direction on how to proceed with this facility by 12/23/10.

EXISTING UTILITIES NOT INDICATED and specification 020630 section 4.1 POTHOLING AND TRENCHING OPERATIONS paragraph C, please proceed with the following in order to identify all interfering utilities that are unknown after all specified procedures or other non destructive methods proposed by the contractor have been exhausted:

Pipe: If conductive material, perform subsurface investigation via electromagnetic detection (or other nondestructive methods) to trace utility back to nearest vault, pull box, manhole or valve to identify owner and content. If nonconductive, excavate along pipe alignment to expose coating and a joint. Inspect and provide information on coating and joint type. If content is still unknown, tap each line in order to identify contents and operating status of utility (i.e. abandoned or operational.)

Conduit and duct bank: Determine if utility is a charged electric utility utilizing a contractor that performs NETA type work. Determine if telecommunication cables are operational.

#### Once the utility has been identified including owner and contents, and determined inactive or deenergized, cut and cap utility at the demolition demarcation line shown in the drawings. U-0065 Two Unidentified 4" Pipes in First St. Invest Trench from Stn. 10+00 to 9+70 Closed 12/23/2010 01/02/2011 12/29/2010 Potentially From: Webcor Construction LP David Hungerford To: Turner Construction Compan Kevin Chiu Answered By: AECOM Technical Service Eric Zagol Co-Author: **REQUEST:** SUGGESTION: ANSWER: Accept Suggestion: Reference: Sheet U-1007, attached sketch of areas in Confirm 2-4" concrete and redwood encased pipes are

plan and section, attached USA North tickets

See attached plan and section through the investigative trench on the East side of First St.from Stn. 10+00 to 9+70. Per note 4 on sheet U-1007 Trinet requests

the inactive 2-3" AT&T conduits from AT&T manhole TMH1887 to the Existing Transbay Terminal as shown in the Plans. Once confirmed demolish in accordance with the Demolition Plans.



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direction regarding encased pipes fou 3" that was encour	the two 4" concret nd at the East face ntered but not indic	e and redwood of curb and down 2'- ated on the plans.			Answered by I AECOM 12/29	Eric Zagol )/2010			
Trinet has this plat as soon as possib with official direction 12/27/10.	ed but would like to le. An expedited re- on on how to proce	b backfill the trench sponse is requested ed with this facility by							
U-0066	Minna St Stati	ion 2+09 - 4" Water Service	Lateral Encountered	Closed	12/23/2010	01/02/2011	12/28/2010	Potential	ly 🗌
From: Webcor Cor	struction LP	David Hungerford	To: Turner Construction C	ompan Kevin Chiu	Answered By	AECOM Tech	nical Service Eric 2	Zagol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Refer to Sheet U-3 During the water ir an existing 4" wate service extends fr	REQUEST: Refer to Sheet U-3107 During the water installation on Minna St we encountered an existing 4" water service lateral at Sta 2+09. The 4"				Existing 4-inch in specification active fire serv connected to t	n service for 83 n 331160 Apper vice to 83 Minna the new 8-inch v	Minna Street is in ndix A. Service is a Street and must water main.	dicated an be	
(Anchor & Hope R service lateral to th at station 2+09. Th water lateral service	estaurant). This is ne same building w ne contract drawing ce connecting to the	in addition to a 1" hich we encountered s only show the 1" e new main.			Furnish and in accordance w service 4-inch service and va	istall 8"x8"x4" te ith the specifica DIP, fittings an alve elevation to	ee with joint restra tions. Furnish and d valve. Set 4-inc match existing 4	int in d install h -inch	
Please advise if th if it must be conne no material on site delaying the work,	e existing 4" servic acted to the new wa to install a tee in the the new water mai	e lateral is active and ter main. There was he line, and to avoid n isntallation			Connection fro 4-inch service	om new 4-inch s by SFWD.	service valve to ex	kisting	
continued past the is that if the 4" ser new main, work ca additional tie-in.	4" service lateral. vice line needs to b an be performed by	The recommendation be connected to the SFWD as an			Answered by I AECOM 12/28	Eric Zagol 3/2010			
U-0066.1	Minna St Stati	ion 2+09 - 4in Water Service	Lateral Encountered	Closed	01/10/2011	01/20/2011	01/14/2011	Potential	ly
From: Webcor Cor	struction LP	Jason Dunne	To: Turner Construction C	ompan Kevin Chiu	Answered By	AECOM Tech	nical Servic∉Eric 2	Zagol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		

Reference Sheet U-3107 and Trinet RFI 059.1

Construct water serive lateral in accordance with



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This is a follow up to the engineer's response to Trinet RFI #59 (RFI#U-0066). Upon further evaluation of the 4" fire service connection at 83 Minna by Tom Farhnam (SFWD Senior Inspector), the water department proposed the attached installation detail for an 8"x4" tee in the 8" main, to be performed by Trinet, and the connection detail to the existing 4" service, to be performed later by the SFWD crew. This change was proposed to avoid conflicting utilities running along the south side of teh new 8" main. AECOM's Design Engineer, Eric Zagol, was advised of the changed design plan proposed by SFWD in the field on 12/28/2010. Please confirm if the attached plan is acceptable and approved for construction.					contractor's attached plan and note the following 1. Provide full joint restraint in accordance with contract documents 2. Provide 4" DI pipe for the section labeled "9" I NIPPLE"				
U-0067	Buried Manho	e in First St. Invest Trench	- 15ft 7in from FOC	Closed	12/23/2010	01/02/2011	12/28/2010	Potentia	ly
From: Webcor Co-Author:	Construction LP	David Hungerford	To: Turner Construction	Compan Kevin Chiu	Answered B	By:AECOM Techi	nical Service Eric Z	agol	
REQUEST: Reference: Sh sketches, and USA North	eet U-1007, attached s attached documentatio	ection and plan n of notifications to	SUGGESTION:		ANSWER: Manhole app sanitary sew Please provi condition (e.	Accept Sug bears to be an ab er manhole. de data on utility g. filled with sand	gestion: andoned separate material (e.g. bric d or concrete) in	ed k) and	



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Co-Author:										
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:			
See attached During the w encountered manhole in t was not indio untill the pav manhole is c water main. proceed furh abandoned. Per a field w MH was com top of the MH the waterline	d drawings adn photos ater main installation on I what appears to be an ol he trench line at station 1 cated on the drawings and ement asphalt was remov lireclty in conflict with the The installation of the wat ter untill the manhole is d alk with Eric Zagol on 12/ firmed abondoned. Pleas H will be demolished to al , and the MH will be back	Minna St, Trinet Id abandoned sewer +15. the structure d was not discovered ved. The sewer alignment of the new termin cannot lemolished and/ or 23/10, the existing e confirm/ advise the low the installation of tfilled with CDF.			<ol> <li>Remove ar separated sat of 1 foot below</li> <li>Plug existin concrete per 0</li> <li>Backfill aba elevation 1 fo</li> <li>Provide 6-i and bottom of 5101 such that of trench bedo 1 foot.</li> </ol>	depth /er with in. en CDF /heet U- cture is				
****Please p	rovide direction by 12/28/	10.			AECOM 12/27/2010					
U-0069	Street Light C	CTV Camera-East Side of Fre	mont St. @ Stn. 5+45	Closed	01/05/2011	01/15/2011	01/14/2011	Potentia	ly	
From: Webco	or Construction LP	Richard Buellesbach	To: Turner Construction Cor	npan Kevin Chiu	Answered By	AECOM Tech	nical Service Eric 2	Zagol		
Co-Author:										
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Reference S	heet U-3302 and Trinet R	FI 62			1/14/11					
During remo Fremont St. CCTV came Please advis	val of the light pole arm o @ Stn. 5+45, Trinet obse ra and associated wiring o ie of the plan for removal	n the east side of rved that there is a on the light pole. of CCTV camera.			Remove and the traffic sigr signal equipm Shop Yard in par. 3.4 C 4. 	salvage existing hal equipment re hent and camera accordance with whow this RFI re ence RFI U-006	CCTV camera as emoval. Deliver tr a to the Traffic Sig h specification 02	s part of affic nal 41 00 73		



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U-0070		Subsurface Structur	es in Conflict with Minna	St. AT&T Vault	Closed	01/10/2011	01/20/2011	01/12/2011	Potentia	ly
From:	Webcor Constru	uction LP	Jason Dunne	To: Turner Construction Compan	Kevin Chiu	Answered By:	AECOM Techni	ical Service Eric Z	Zagol	
Co-Author:										
REQU Refere During vault in existin	REQUEST:       SUGGESTION:         Reference Sheet U-2008 and Trinet RFI 63       SUGGESTION:         During our potholing on Minna St. for the proposed AT&T vault in the sidewalk (Stn. 3+72), we encountered an existing subsurface foundation and slurry shoring wall. The top of the subsurface foundation is at a depth of approximately 4' from the top of the sidewalk and is in conflict with the installation of the proposed AT&T youtt					ANSWER: As determined Turner, AECOI wall is an aban Remove and d basement wall	Accept Sugg during a site vis M and Tishman idoned sidewalk ispose of existir as required (ap	estion: sit on 1/10/11 wit Speyer, the expo basement wall. og abandoned sic prox. 1.5 feet in o	h W/O, osed dewalk depth)	
top of approx conflic Installa the pla founda	the subsurface kimately 4' from t with the install ation of the prop ans will require p ation wall encou	roundation is at a depitient to p of the sidewall ation of the proposed ation of the proposed AT&T vault in action of the operated demolition of the intered. Please advise.	n or < and is in AT&T vault. ccordance with e existing		011					
U-00/1	Webcor Constru	Existing fittings at th	Richard Buellesbach	To: Turper Construction Compon		01/10/2011 Answered By:		01/12/2011		IY
Co-Author:				To: Tumer Construction Company	Kevin Chiu	Answered by.		ICAI SEIVICE ETIC 2	Layor	
REQU Refere Due to existin at Firs Minna extenc locatio would Existin Turner persor Please	<b>JEST:</b> ence Sheet U-31 of the presence of g 8 inch water n t St., SFWD insp d the limits of the ons of the existin normally be req og conditions we r, SFWD, Eric Z onel.	109 and Trinet RFI 64 of existing fittings instance nain at our tie in locati St. for the new 8 inch bector Dan Helmnik has the tie in excavation bey ug fittings. This is bey uired for a tie in of this ore reviewed in the field agol from Aecom, and bedited response is red	lled in the on (Stn. 9+30) water main on is requested to ond the ond what is nature. d by W/O, Trinet	SUGGESTION:		ANSWER: Provide labor a trench for piper connections to accordance wit section 33 11 0	Accept Sugg and equipment to s, fittings, and v the existing wa th U-3100 Note 00 par. 3.5.	estion:	hore ary for VD in on	
1 10030	e auvise. All exp									
U-0072 From: Co-Author:	Webcor Constru	Fremont St traffic Sinction LP	gnal Pole to be removed David Hungerford	and salvaged - has Muni Cable at To: Turner Construction Compan	ttach Closed Kevin Chiu	01/10/2011 Answered By:	01/20/2011 Turner Construc	01/18/2011 ction Comr Jack	<b>Potential</b> Adams	ly

REQUEST:

Reference Sheet U-3302 and Trinet RFI 65

#### SUGGESTION:

ANSWER: Accept Suggestion: U. Adams 01/18/2011



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Per contract, Trinet is required to remove and salvage the existing light pole indicated in the attached drawing. Through observation in the field, the existing light pole has a MUNI cable attached which runs to the intersection of Fremont St. and Mission St.. Based on these findings, should the light pole be removed as indicated? Mario Saldana from W/O was present when this item was observed and issue has been discussed with Eric Zagol from AECOM.

Please advise. An expedited response is requested by 01/12/2011.

These are MUNI OCS Poles not Lighting Poles. Both OCS poles along east side of Fremont near 301 Mission Tower are in use by MUNI OCS System. MUNI has designated each OCS pole to hold different guy wires at Fremont and Mission see Demolition drawing Sheet 105 of 137. The poles are to remain and be deleted from Webcor-Obayashi/Trinet scope.

NOTE: Evans Bros Subcontractor Reliance Electric are to correct OCS cables to both of these OCS Poles. Reference Demolition drawing plan sheet 105 of 137. A second cable will be installed at OCS Pole 4030 and the cable will be reinstalled at OCS Pole directly north of Pole 4030 per contract.

\*\*\*\*\*\*\*\*\*

J. Adams 01/13/2011

The MUNI Overhead Contact System (OCS) Pole in question not light pole. This OCS pole was to have the guy wires relocated to nearby MUNI OCS Pole by the Demolition Contractor in July 2010 during mods to Transbay Terminal MUNI OCS system. Demo drawing plan sheet 105 of 137 shows the guy wires relocated to pole 4030 - this is in EBi scope.

Pole 4030 is shown to remain per Demo drawing above - But, Pole 4030 is shown to be removed per RUP U-3302 .

It should be noted that upon relocation of this OCS guywire the removal of the pole is Webcor-Obayashi scope per drawing U-3302.

E. Zagol 01/13/2011

Change in existing conditions. New MUNI guy wire was attached to existing pole at STA 5+45 as part of the Existing Terminal & Ramps Demolition Plans project.

1. Remove and salvage traffic signal equipment per U-



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					3302.					
					2. Protect in	place existing M	UNI pole.			
					**********	*****	*****			
					E. Zagol 01/1	2/2011				
					Change in ex was attached the Existing T project. Exis project to rem	isting conditions I to existing pole Ferminal & Ramp ting Terminal & I nove the MUNI p	. New MUNI guy at STA 5+45 as os Demolition Pla Ramps Demolitio oole at STA 5+60	v wire part of ins n Plans		
					1. Remove and salvage traffic signal equipm 3302.					
					2. Protect in place existing MUNI pole at STA 5+					
U-0073	Fremont St. Li	ght Pole and Muni Cables t	o be protected - indicated light p	ole has r Closed	01/10/2011	01/20/2011		Potentia	lly 🗌	
From: Wel	bcor Construction LP	David Hungerford	To: Turner Construction Com	pan Kevin Chiu	Answered B	y:				
Co-Author:										
REQUES Reference 66	T: e Sheet U-3302 Traffic Signa	al E and Trinet RFI	SUGGESTION:		ANSWER:	Accept Sug	gestion:			
As indicat and Salva Muni Cab field and t pole.	ted on the plans, Trinet is rea age Traffic Signal Equipment les in Place." Conditions we there is no Muni cable attach	quired to "Remove Protect Pole and re reviewed in the ned to the (E) light								
Mario Sal cable atta and reque CCTV line from AEC	dana from W/O has observe iched to the pole not mention ests clarification on ownershi 2. This issue has been discu cOM.	d there is a CCTV ned in Trinet RFI 66 p and status of the ssed with Eric Zagol								
Please ad	lvise. An expedited response	e is requested by								



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01/12/2011.									
U-0074	Unidentified 9	Din Concrete Wall in First S	St Invest Trench - 10ft-5in west of	Conc. Mu Closed	01/10/2011	01/20/2011	01/25/2011	Potential	lv 🗌
From: Webcor	Construction LP	Jason Dunne	To: Turner Construction Con	npan Kevin Chiu	Answered By		nical Service Fric	Zagol	.,
Co-Author:								_~	
REQUEST: Reference She 051 See attached, east side of Fi from Stn. 9+70 Trinet requests unidentified 9" concrete Muni Trinet encount note, Trinet re structure. Trine trench as soor	eet U-1007 Traffic Sign plan views of the invest rst St., west of the com 0 to 9+59.5. Per note 4 s that Webcor "notify T concrete wall at 10ft-5 i median face of curb a tered "not indicated on quests "direction on the et has plated but would in as possible. Please a	hal E and Trinet RFI stigative trench on the crete Muni median, of sheet U-1007, JPA" of the in west of the nd 3ft-6in cover that plans". Per same e demolition" of this I like to backfill the dvise.	SUGGESTION:		ANSWER: Unknown cond Center Project CDSM shoring	Accept Sug crete wall to be (NIP) within th wall and mass	gestion: demolished by T e area impacted s excavation.	ransit by the	
11-0075	Water Main C	onnection at 2nd St and M	inna St - expose new line for SFW		01/11/2011	01/21/2011	01/12/2011	Potential	
From: Webcor	Construction LP	Mario Saldana	To: Turner Construction Con	npan Michelle Smith	Answered By	AECOM Tech	nical Service Eric	Zagol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference She	eet U-3107 and attache	ed photos			Provide labor	and equipment	to excavate and	shore	
At the intersec existing 2in ga existing 8in ma Tee connectio gas line so clo	ction of 2nd St and Mini as line running directly ain to be tied into. SFW n due to the bells of the sse.	na St, there is an on top and next to the /D cannot make the e fittings with the 2in			trench for pipe connections to accordance w section 33 11	s, fittings, and the existing wa th U-3100 Note 00 par. 3.5.	valves as necess ater mains by SF and specificat	ary for WD in ion	
The end of the exposed about by 1ft east so	e new line installed by 1 t 2ft for SFWD to move that SFWD can make t	Frinet will need to be the end of the line the connection							

without moving the gas line. This will require extra work for Trinet to expose the new line for SFWD. Eric Zangol



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froi pre Ple imp	m AECOM and Da esent during the dis ease provide direct pact the chlorinatio	n Helminiak from ccussion of this is ion as soon as po n and tie-in scher	SFWD were sue. ossible as this will dule.							
U-0076		Water Main Co	nnection at 2nd St and Min	na St - demo/excavate per SFW	D Closed	01/11/2011	01/21/2011	01/14/2011	Potential	ly
Fro	m: Webcor Constr	uction LP	Mario Saldana	To: Turner Construction Com	npan Michelle Smith	Answered By	AECOM Techr	ical Service Eric	Zagol	
Co-Autho	or:									
RE	QUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Re At t Wa The exi der Thi SF to o Eri dis Ple imp	the intersection of the main is to be co e new 8in line insta isting utilities, and 8 mo/excavation to n is will require extra WD. Inspector Dar come back and me c Zangol from AEC coussion of this issue ease provide direct	107 and attached 2nd St and Minna onnected to an ex- illed by Trinet is a SFWD requires m hake the connecti- work for Trinet to helminiak is sch asure this afterno COM was also pre- ue.	I photos a St, the new 8in kisting 6in water line. above and below hore ion. b demo/excavate per heduling the SFWD bon (01/11/2011). esent during the bossible as this will dule.			Provide labor trench for pipe connections to accordance w section 33 11	and equipment i es, fittings, and v o the existing wa ith U-3100 Note 00 par. 3.5.	to excavate and valves as necess ater mains by SF 4 and specificat	shore <sub>∂</sub> ary for WD in ion	
11 0077		Fire Undreast In	stallation at Minna St Stn.		Closed	01/12/2011	01/22/2011	01/11/2011	Dotontio	
0-0077 Ero	<b>m</b> •Webcor Constr		David Hungerford	To: Turner Construction Com	Ciosea Anon Michollo Smith	Answered By		vical Sarvia Eria	Zagol	IY
Co-Autho	or:		David Haligonola			Allowered by	ALCOM TECH	IICAI SEIVICELIIC	Zagoi	
RE Re Wit (no No exis	EQUEST: Iference Sheet U-3 th reference to the ortheast corner of S te #5 on sheet U-3 sting fire hydrant."	107 fire hydrant at Mi Second St. and M 107 directs Trine	inna St. Stn. 0+90, inna St.) General t to "replace in place	SUGGESTION:		ANSWER: As discussed Inspector) and construction s St. STA 0+90 Coordinate wi	Accept Sug on site with Dar those mentione equencing of the is acceptable. th Daniel Helmir	gestion: niel Helminiak (S ed above, the pro e fire hydrant at niak (or assigned	FPUC oposed Minna	



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Per on site field discussions with Eric Zagol from AECOM, Robert Friend from Trinet and Mario Saldana from W/O, it was determined that the existing hydrant would remain in place until after the new water main connections are performed by CDD crews. After which the existing hydrant will be removed and new hydrant and lateral piping will be installed and tested.

Please confirm if this is acceptable. An expedited response is requested.

Inspector) and the SFWD to ensure the fire hydrant is properly decommissioned by SFWD and SFFD following main connections by SFWD and prior to abandonment of the existing main in Minna Street by SFWD prior to fire hydrant installation by Trinet. Coordinate with SFPUC inspector to ensure SFWD and SFFD installs a black hydrant "donut" on the existing fire hydrant and new fire hydrant prior to the new fire hydrant being placed in service. Coordinate the removal of the "donut" once new fire hydrant is in service.

U-0078	6in and 4in Service	Laterals to 2 Shaw Alley		Closed	01/12/2011	01/22/2011	01/14/2011	Potentially
From: Webcor Con	struction LP	David Hungerford	To: Turner Construction Compan I	Michelle Smith	chelle Smith Answered By:AECOM		ical Service Eric Z	agol
Co-Author:								
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	jestion:	
Reference Sheet L The existing 4" wa confirmed abandou investigations. Sir inactive, Trinet inte main for this 4" se Zagol from AECOI Helminick from SF addition, Dan Heln service tee installe provide service for pipe installed. Ple The 6" water servic confirmed as an au SFWD personnel t intends to provide 6" service as discu AECOM, Mario Sa	J-2008 ter service found at Stn. 5 hed by SFWD personnel ice the service is determi- ends to not provide servic vice as discussed in the 4, Mario Saldana from W WD and Robert Friend fr mick from SFWD reques d in the new 8" main whice this 4" lateral removed a ase confirm if this is acce ce lateral found at Stn. 54- ctive fire service to 2 Sha hrough on site investigati service from the new wat issed in the field with Eric Idana from W/O, Dan He	5+37 has been through on site ned to be e from the new field, with Eric V/O, Dan om Trinet. In ted to have the ch was to nd straight eptable. +30 has been w Alley by ions. Trinet er main for this c Zangol from Iminiak from			Existing 4" wat utility investiga submitted prior determine statu U-3108 Genera remove the 8"x straight pipe per inspector. Provide 6" wate contract docum AECOM sugge price to perform	er service at ST tions should hav to installation c us of existing lat al Note No. 3. If 8"x4" tee install er the request of er service later a nents. ests that there is n this work.	A 5+37. Subsurf ve been performe of water main to teral in accordance t is acceptable to led and replace w f SFPUC SFWD at STA 5+30 per at ochange in con	face ed and ce with vith ntract



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U-0079	Fremont St Te	emp Water Line Installed ov	er AT&T Duct	Closed	01/17/2011	01/27/2011	01/19/2011	Potential	ly
From: Webcor C	Construction LP	Nhi Tran	To: Turner Construction Compa	an Michelle Smith	Answered By	AECOM Techr	nical Service Eric	Zagol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Shee	et U-3123 and attache	ed detail			It is AECOM's existing PG&E	understanding electrical duct	that Trinet encou (4-4") crossing th	inter an ne water	
During Trinet's in Fremont St., Tri that was in direc Trinet was direc run the tempora using 45 degree piping than what Due to the lack of 1/2in steel plate trench as depict approximately 2 limits of the insta Please provide of	installation of the tem inet encountered an ect ct conflict with the ten cted by Eugene Chu c ary water line over the e bends. This resulted it is required by the W of cover, Trinet was c beneath the concrete ted in the attached de 2ft wide by 6ft long an called 45 degree bend confirmation that this	porary water line in existing AT&T duct inporary water line. of SFWD/SFPUC to e existing AT&T duct d in less cover for the /ater Department. directed to install a e base along the etail. The plate was d extended to the ls. is acceptable.			alignment feed AT&T duct as understanding PG&E electric alignment whic PG&E and dei are shown in t 1123, the wate completes the Given the fact not been aban option to go ur plans is not fer duct is not der water main is i mentioned ins	ding 301 Mission referenced abo that Trinet enc al duct (8-3") pac ch is ultimately molished by Trin he plans. Per s er line should be ir work on Frem that the PG&E idoned by PG&I nder the existing asible because nolished, and g a temporary con tallation propos	n property and no ve. It is also AEG ountered an exist arallel to the wate to be abandoned het. Both PG&E equencing shown a constructed afte ont Street. duct parallel (8-3 E, and given the fa g 4-4" PG&E duct the existing 8-3" iven the fact that holition, the above al is acceptable.	ot an COM's ting if by ducts n on U- er PG&E ") has fact the t per PG&E the new e	
					to perform this	s work.			
U-0080	Proposed De	sign Change for MH #501		Closed	01/17/2011	01/27/2011	01/28/2011	Potential	ly
From: Webcor C	Construction LP	Nhi Tran	To: Turner Construction Compa	an Michelle Smith	Answered By	AECOM Techr	nical Service Eric	Zagol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Shee Trinet proposes #501 from a Mo #87,184) to a Pr Plan #87,181 - s includes the inst extending south brick sewer per	et U-2021 and attache to change the design odified Box Manhole (precast Concrete Mani see attached drawing tallation of a tempora o from the manhole ar SF Standard Plan #8	ed drawings n of sewer manhole per SF Standard Plan hole (per SF Standard ). The proposal ry 24" PVC pipe stub, nd connected to the i7,197.			CCSF DPW S specifies a 4 ft Three (3) 24-ir manhole at inv may yield an u A larger diame acceptable ho submitted as a approval.	tandard Plan #8 t diameter preca nch pipes conne- vert elevation as unstable structu- eter precast con wever the alterr a substitution fo	37,181 references ast concrete man acting to a 4 ft dia proposed by con- re and is not app crete manhole m hative would need r CCSF SFDPW	d hole. Intractor roved. ay be d to be	
The proposed m around the man RFI # U-0021 (T manhole design	nanhole design will fa ny utilities identified in Frinet RFI 04). It is als n for 24in pipe per the	cilitate construction the excavation - see so the preferred SF Standard			As per the res mark up of U-3 and vertical loc excavation for	ponse to RFI U- 3021 indicating cation of the uti review.	-0021, please pr the size, and hor lities identified in	ovide a izontal the	



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identified in conflict for review. This request is now 7

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Drawings, espe side will later be by the owner. T abandonment c just have to plu sewer.	ecially since the brick sewer on the south e abandoned and plugged (in the manhole) This plan will also facilitate the later of the outlet to the south, as the owner will g the 24in outlet pipe and not a 3x5 brick						
Please conside	r. An expedited response is requested.						
U-0080.1	Proposed Design Change for MH #501	Closed	02/09/2011	02/18/2011	02/22/2011	Potential	ly 🗌
Co-Author:	Construction LP INIT I ran	10: Turner Construction Compan Michelle Smith	Answered By	Constru	iction Comp Kevii	n Chiu	
Co-Author: REQUEST: Reference Sheet U-2021, RFI #U-0080, and attached drawings In response to the Engineer's concerns with the number and size of pipes in Trinet's original revised detail for MH 501 (RFI#U-0080), Trinet has changed their proposed installation drawing to include a 5' I.D. cast-in-place MH base. The lower precast section of the MH will be 5' I.D., with a precast reducer section transitioning from 60" to 48" I.D. placed above. Attached is the revised drawing for MH		SUGGESTION:	ANSWER: 02/22/2011 - I A Change Re accepted sub- concrete man Box Manhole.	Accept Sug Kevin Chiu quest (CR) may stitution of the 5 hole in lieu of th	gestion:	ecast odified	
design was disc of Engineering, have a problem Trinet requests	aussed with Cliff Wong from the SF Bureau Hydraulics Department, and he did not with a 5' I.D. manhole. an expedited response.		The proposed from a Modifie Plan #87,184 5-foot diamete temporary 24, 3¿x5¿ brick s #87,197 is ac Provide flexib diameter prec SFDPW Stan As per the res please provid and borizonta	design change ed Box Manhole included in the o er precast concr 2, PVC pipe con ewer per SFDP ceptable. de pipe connection ast concrete ma dard Plan #87,1 sponse to RFI U- e a markup of U L and vertical loc	for sewer manho per SFDPW Star contract documer ete manhole with nection to the exi V Standard Plan ons to the 5-foot nhole as shown 81. -0080 and U-002 -3021 indicating to ation of the utility	le #501 ndard hts to a a sting in 1, the size, es	



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					weeks outsta	nding.			
					AECOM sugg the 5-foot dia larger cast in documents.	lests a cost crec meter precast co place Modified I	lit for the substitu oncrete manhole 3ox Manhole per	tion of for the contract	
U-0081	Water Main A	lignment - Howard St ST	A18+72 and STA19+98	Closed	01/19/2011	01/28/2011	01/24/2011	Potentia	lly
From: Webo	cor Construction LP	Nhi Tran	To: Turner Construction (	Compan Michelle Smith	Answered By	AECOM Tech	nical Service Eric	Zagol	
Co-Author:									
REQUEST	:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Sheet U-3119 and attached drawing Please confirm that it is acceptable for M Squared to install the new 12in water line in a straight line as sketched on the attachment. Contract Drawings show the pipe offsetting between Sta 18+72 and Sta 19+98. Due to existing utilities discovered in potholes the 12in line will be installed 18ft from centerline. Also, please confirm the elevations of the water line can be raised dependant on the depths of the existing utilities Also, the referenced drawing has a discrepancy shown between the 12in water line bend station called out and the location shown in plan view. Please confirm that the first 45degree bend is located at 18+72, and not 18+27.					<ol> <li>Contract Disland, as sho constructed a Terminal Proj Philip Sandri<sup>1</sup> deleted from t acceptable to main betweer centerline.</li> <li>Elevations dependant on Minimum dep bottom of the DPW Order N</li> <li>45 degree a longer require above.</li> </ol>	rawings indicate own on the plans s part of the Tra ect. AECOM re TJPA/PMPC that the Transbay Te eliminate the of o STA 18+72 an of the water line the depth of the th of cover shall concrete base p lo. 176,707 or 2 at STA 18+72.	an offset to avoi s, that was to be insbay Temporar ceived confirmati at the bus island we rminal Project. It fset and construct d STA 19+98 at 1 e can be raised e existing utilities. be 18-inches be pavement section 8" which ever is g 45 degree bend r ise provided in ite	d a bus / on from vas : is :t water 8ft from low the per per preater. o m 1	
U-0082	Sewer Systen	n Quality Assurance Clari	fication	Closed	01/19/2011	01/29/2011	01/21/2011	Potentia	
From: Webo	cor Construction LP	Nhi Tran	To: Turner Construction (	Compan Michelle Smith	Answered By	:Turner Constru	uction Comr Mich	elle Smith	-
Co-Author:							•		
REQUEST	:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		

Reference Specifications Section 33 31 10, 1.4.E

ANSWER: Accept Suggestion:



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Please clarify if TJPA or DPW is going to complete the inspection of the pipe as described in the referenced specification section.

requirements regarding delivered materials in 01 16 00 1.6D.

For materials falling under specification section 33 31 31, section 1.4C determines that all piping is SUBJECT to inspection by TJPA and/or DPW. This means that all piping is to be made available upon delivery if TJPA/DPW deems it is necessary to inspect the material. Contractor to inform TJPA of all deliveries and assure the storage facility is accessible. TJPA will inform contractor if material will be inspected prior to installation. When TJPA determines that additional labor is needed to move materials around for inspection, please reference 1.4E, which states that contractor is to furnish labor as needed to assist TJPA with this effort.

There is no ¿HOLD POINT¿ for TJPA or SFWD to inspect materials at manufacturer or upon delivery. TJPA/DPW intends to inspect the materials deliveries of each subcontractor until such time as a confidence level is built that subcontractor and W/O are ensuring the proper amount of quality control through their own material inspections.

Per specification Section 01 14 00 1.4, W/O shall verify all dimensions in the field and shall check all field conditions continuously during construction, including materials. Any inspection of materials by TJPA, DPW, or any other agency does not alleviate the subcontractor or W/O of the responsibility of performing your own quality assurance measures, or constitute an acceptance of materials. Ultimately, it is the responsibility of the subcontractor and W/O to ensure the materials used for the project meet the contractual requirements set forth in the drawings and specifications.

U-0083

Closed

From: Webcor Construction LP

Nhi Tran

To: Turner Construction Compan Michelle Smith

01/19/2011 01/29/2011 01/20/2011 Potentially Answered By: AECOM Technical Service Eric Zagol

**Co-Author:** 



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Number	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
REQUEST:         Reference Sheet U-3118         Potholes on Beale Street at Sta 14+00, Sta 14+90 and Sta 16+25 reveal a 6in steel line that is unmarked and not shown on contract drawings. The line is 18ft south of the Howard St centerline. This is the proposed alignment for the new 12in water main. The pothole at Sta 14+00 also reveals a 3in steel conduit which is 16ft south of the Howard St centerline. Also there is a 6ft x 6ft wooden telecom duct bank that runs east to west on Howard Street at 15ft south of the Howard Street centerline. This location offers the closest window for the new 12in water line to the original alignment shown in the contract drawings.         This would require the removal of the wooden duct bank and the removal of the abandoned manhole shown on U-3118 (Sta 14+96 ¿ 15ft from Howard St centerline)		SUGGESTION:		gestion: ears to be a 6-inch ain. Confirm the " k" is a 6-inch x 6-in ndoned.	Answered Impact			
Please confirm t	he alignment of the new 12in water main.							
U-0083.1	Water Main Alignment on Howard at Beale	)	Closed	01/24/2011	02/03/2011	01/25/2011	Potentia	lly
From: Webcor C	onstruction LP Nhi Tran	To: Turner Construction Com	pan Michelle Smith	Answered By	AECOM Tech	nical Service Eric Z	agol	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
M Squared has confirmed that the wooden duct bank is a 6inch x 6 inch wooden duct bank and is abandoned.				Construct 12-inch water main at the location proposed; 15 ft south of Howard Street centerline.				
Please direct M Squared on how to proceed.				and abandone	dispose of aban ed manhole as r	equired to constru-	ct bank ct new	
****************	*****			12-inch water	main.			
Question from U	-0083:			Refer to respo	onse provided fo	or RFI U-0083.		
Reference Shee	t U-3118							
Potholes on Bea 16+25 reveal a 6 shown on contra	le Street at Sta 14+00, Sta 14+90 and Sta Sin steel line that is unmarked and not Ict drawings. The line is 18ft south of the							

Howard St centerline. This is the proposed alignment for the new 12in water main. The pothole at Sta 14+00 also reveals a 3in steel conduit which is 16ft south of the



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Howard St centerline. Also there is a 6in x 6in wooden telecom duct bank that runs east to west on Howard Street at 15ft south of the Howard Street centerline. This location offers the closest window for the new 12in water line to the original alignment shown in the contract drawings.

This would require the removal of the wooden duct bank and the removal of the abandoned manhole shown on U-3118 (Sta 14+96 15ft from Howard St centerline)

Please confirm the alignment of the new 12in water main.

U-008	4 Water Main Alignmen	t on Beale Street	Closed	01/21/2011 01/31/2011 01/25/2011 Potentially
	From: Webcor Construction LP	Nhi Iran	To: Turner Construction Compan Michelle Smith	Answered By: AECOM Technical Service Eric Zagol
Co-A	uthor:			
	REQUEST:		SUGGESTION:	ANSWER: Accept Suggestion:
Reference Sheet U-3124 M Squared potholed at Sta 1+10 on Beale Street. We discovered that the 10in High pressure water line is 9ft-5in from the FOC. The existing 12in water line is 14ft-8in from the FOC. The 10in High Pressure line is closer to the FOC that above on contract drawing a This naw means that			Contract drawings show existing 10-inch HPW (AWSS) at 9ft-7in from FOC. Contract drawings show existing 12-inch water line at 13 ft-11in from FOC.	
			Please clarify if dimensions provided by Contractor are to centerline of pipe.	
there is a larger window between the 10in high pressure water and the existing 12in water main.				Please provide depth to centerline of the existing 10- inch HPW (AWSS) potholed.
	M Squared would like to install the new 12in v 12ft-3in from center line of the pipe to the FO	water line at C.		Contractor's proposed location at 12ft-3in from FOC is in conflict with proposed Beale St. sewer main.
the parking strip and the parking strip would stay in tact. SFWD would also prefer it outside the parking strip for maintenance purposes.			Following receipt of information requested, AECOM will evaluate if water line can be moved west of parking strip.	
	Please confirm that it is acceptable to install t water line at 12ft-3in from FOC, going from St Sta 1+90.	the new 12in ta 0+60 to		



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From: Webc Co-Author:	or Construction LP	Nhi Tran	To: Turner Construction Compa	n Michelle Smith	Answered By	AECOM Techr	nical Service Eric	Zagol	
REQUEST: Reference Sheet U-3124 and RFI #U-0084 In response to the Engineer's questions, M Square has noted the following: - Yes, the dimensions provided are to centerline of the pipe - Depth to centerline of existing 10-inch AWSS is 72- inches			SUGGESTION:		ANSWER: In reference F the new 12in of from Sta 0+60 site meeting w on 2/11/11, cc U-3124. Rest Documents.	Accept Sug RFI U-0084, it is water line at 12f to Sta 1+90. A vith Noel M. (M2 onstruct 12-inch ore parking strip	gestion: not acceptable to t-3in from FOC, g to discussed duri and Mario S. (V water line as sho p per Contract	o install going ng a Vebcor) own on	
U-0085 From: Webc Co-Author:	AT&T Duct Ba	<b>nk on Beale at STA 6+00</b> Nhi Tran	To: Turner Construction Compa	<b>Closed</b> n Michelle Smith	01/21/2011 Answered By	01/31/2011 AECOM Techr	01/27/2011	<b>Potential</b> Zagol	ly 🗌
<ul> <li>Co-Author:</li> <li>REQUEST:</li> <li>Reference Sheet U-3125 and attached sketch</li> <li>The existing 4no. 4in AT&amp;T lines on Beale Street at Sta 6+10 are not as shown on the contract drawings. See attached sketch.</li> <li>Contract drawings show the conduit crossing M Squared's trench for 6 or 7 feet, however the duct bank is in the trench for 37 feet due to the alignment and width of the duct bank. The conduits are covered with a 2 foot wide concrete cap and appear in the trench for the new 12in water main at Sta 6+12 before leaving the trench at Sta 5+75. M Squared cannot lay the pipe on top of the concrete cap as the pipe will not have the required coverage.</li> <li>Due to this M Squared is unable to install the new 12in water as shown. Juan with AT&amp;T advised that M Squared remove the concrete cap from the conduits to allow for excavation of this portion of trench. With the cap removed it is more likely that the pipe will have the necessary minimum coverage.</li> </ul>		SUGGESTION:	<ul> <li>ANSWER: Accept Suggestion:</li> <li>Please proceed as per AT&amp;T's suggestion</li> <li>Please coordinate with AT&amp;T's represent</li> <li>Hunynh and field representative Dave OI</li> <li>onsite inspection by AT&amp;T of the affected</li> <li>conduits prior to backfill.</li> <li>Confirm minimum cover of 30-inches or</li> <li>below concrete pavement base which evis maintained.</li> <li>Provide distance between top of water m</li> <li>bottom of AT&amp;T conduits for review.</li> </ul>		gestion: s suggestion. s representative ve Dave Olson for the affected AT& -inches or 18-inc se which ever is g of water main ar eview.	Huan or an T hes greater,			

Please confirm that this is how M Squared is to proceed. An expedited reponse is requested.



due to existing utilities and the presence of the concrete

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U-0086	Concrete Slab & Rail Ties at Howard ST	A 13+60	Closed	01/24/2011	02/03/2011	01/25/2011	Potentially	
From: Webcor Con	struction LP Nhi Tran	To: Turner Construction Com	pan Michelle Smith	Answered By	AECOM Techn	ical Service Eric	Zagol	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Sheet L	J-3117 and attached sketch			As discussed	during a site vis	it on 1/25/11 wit	h Noel	
M Squared pothole revealed a 15in thic the proposed align M Squared broke of nothing in it. There for 5.5 feet. The so	ed at Howard Sta 13+60. The pothole ck concrete slab which is in conflict with ment of the new 12in water line. but a cross section of the slab and found was also nothing underneath the slab buthern edge of the slab is 4 feet north but contex line. M Squared also			(M Squared) a proposed aligr per Plans is in separation). As discussed, Fremont St. ar	no Mario S. (W) ment of 18-inch conflict with the pothole along H nd First St. to de	O) the Contract les south of alig existing sewer loward St. betwee etermine if 15-inc	ors nment (limited een ch	
discovered 6inch x	8 8 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1			Howard and Fi	remont streets of	or if the slab exte	ection of ends to	
If M Squared has to water line at the ali the MFS (fiber opti conduits sit on top	o remove the concrete slab to install the ignment shown there is a danger that c) conduits will be damaged as these of the slab.			This of.				
Breaking off an 18i a section of the rai excavate and insta away from the MFS However this will b	in section of the concrete slab and also I ties would allow M Squared to II the new water pipe, while keeping S conduits and not damaging them. e time consuming.							
An alternative option 12in water pipe 18i rail ties (as shown	on is to move the trench for the new in south and just remove the wooden in sketch).							
Mario S. from W/O during the discussi field.	and Eric Z. from AECOM were present ion of this issue with M Squared in the							
Please direct M Sq line installation. An	uared on how to proceed with the water a expedited response is requested							
U-0086.1	Concrete Slab & Rail Ties at Howard ST	A 13+60	Closed	02/03/2011	02/14/2011	02/04/2011	Potentially	
From: Webcor Con	struction LP Nhi Tran	To: Turner Construction Corr	pan Michelle Smith	Answered By	AECOM Techn	ical Service Eric	Zagol	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
As discussed at the between Noel (M2)	e meeting on Friday, 01/28/2011 ), Eric (AECOM) and Mario (Webcor) -			Confirmed. Se SK-U-0004 for	ee attached ske the revised alig	tches SK-U-000 nment.	3 and	


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	slab and rail ties four requested (Ref. Res water main is to be in Howard Street Sta 1: Please confirm	nd in the additiona ponse to RFI U-00 nstalled 5ft from ti 2+60 to Sta 9+50	al potholing that was 086), the new 12in he northern FOC on							
U-0087	7	Compact Sewe	er Backfill Sand by Jetting		Closed	01/27/2011	02/06/2011	02/03/2011	Potential	ly 🗌
	From: Webcor Const	ruction LP	Nhi Tran	To: Turner Construction Com	pan Michelle Smith	Answered By	AECOM Techr	nical Service Eric Z	agol	
Co-Ai	uthor:									
	REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference San Francisco Standard Specification Section 703.08, attached Trinet requests authorization from the Engineer to compact the sewer trench backfill sand by jetting in accordance with the San Francisco Standard Specification Section 703.08. The native material along Minna, which Trinet is re-using for trench backfill, is a clean well grade dune sand. Trinet believes jetting is an ideal method of compaction for this type of material. It is also an effective means of compacting the sand around the top and sides of the pipe without disturbing the pipe, and backfilling any voids left from removal of the shoring or that might have formed behind the shoring. This method of compaction is commonly utilized in San Francisco for sewer projects in similar ground conditions.					Jetting in acco Specification S above the san CCSF DPW S sewer installar Contractor sha damage to se adjacent mate damage shall Meet compact If compaction the use of jetti Notify TJPA's representative site observation	brdance with CC Section 703.08 d backfill (pipe standard Specifi tions is accepta all determine tha wers, adjacent se trials to be softe be repaired at t tion requirements a ing. geotechnical er in advance of j on of jetting and	SF DPW Standar of the backfill laye zone) as specified cation Section 70: ble. at jetting will not re- structures, or caus ned. Any resultin he Contractors ex- ts for each horizon re not met, discon- ngineer through th etting to coordinal compaction testin	rd rs J in 3.06 for esult in se g pense. ntal lift. tinue e TJPA te on- ng.		
	An expedited respon	se is requested.								
U-008	3	Minna St 18in	Sewer Conflict with PG&E M	H#1355 at STA 1+77	Closed	01/28/2011	02/07/2011	03/24/2011	Potential	ly 🗌

U-0088

Closed

From: Webcor Construction LP

Nhi Tran

To: Turner Construction Compan Michelle Smith

Answered By: AECOM Technical Service Eric Zagol

Co-Author:

Reference Sheet U-2007 and attached drawings

SUGGESTION:

ANSWER: Accept Suggestion: ==UPDATE== 3/24/11



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During layout for the installation of the new 18in Sewer Main on Minna St., Trinet observed that the alignment of the 18in Sewer Main is in conflict with existing PG&E MH #1355 at STA 1+77.50.

which is to remain in place. The center line of the new sewer main is 0.10ft north of the outside edge of the manhole wall, as depicted in the attached drawing. The north side wall of the manhole is constructed on top of the existing 3ft x 5ft brick sewer. The brick sewer structure extends approximately 16in into the vault along its entire length. The brick sewer therefore cannot be demolished without undermining the north wall of the electric vault. Eric Z. of AECOM was notified of this issue via phone call on 01/21/2011.

Please advise:

1. How should Trinet proceed with the installation of the new 18in VCP Sewer at this location? 2. How should Trinet proceed with the demolition of the existing 3ft x 5ft brick sewer?

See revised drawings Minna Street Revisions dated 3/16/11 assoicated with ASI#003.

U-0089	TJPA/DPW Inspection of Materials	Closed	01/31/2011 02/10/2011 02/02/2011 Potentially
Fror	n:Webcor/Obayashi Joint Venture Bob Garcia	To: Turner Construction Compan Kevin Chiu	Answered By: Turner Construction Comr Michelle Smith
Co-Autho	or:		
RE	QUEST:	SUGGESTION:	ANSWER: Accept Suggestion:
Ref	. response to RFI U-0082, specs 331100, 011600:		Procedure for material inspections will be finalized as part of the $OA/OC$ manual, to be issued by TIPA
In re insp	esponse to RFI U-0082 stated "TJPA/DPW intends to bect the material deliveries of each subcontractor"		
Doe mat trad mat per	es the TJPA/DPW or Turner have an established terial inspection protocol in place to allow W/O and the le subcontractors to verify and document that the terials have been inspected by TJPA/DPW or Turner the above referenced specifications?		
U-0090	46 Minna St 6in Fire Service Connection	Closed	02/01/2011 02/11/2011 02/03/2011 Potentially



Co-Author:

Webcor/Obayashi Joint Venture

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From: Webcor Con:	struction LP	Nhi Tran	To: Turner Construction (	Compan Michelle Smith	Answered By	:Turner Constr	uction Comr Kev	in Chiu	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Sheet U	I-3108 and attache	d sketch and photos			VOID.				
The original plan fo Lateral @ 46 Minna valve (which is loca new 6in fire line to (See attached phot by SFWD inspecto at a field meeting o SFWD, plumbers w in, proposed a diffe 6in fire line beyond connect to the hom (under the sidewalk Note: This will requ put a hole through would need to be p a detail to plug the entering the baserr Please provide dire	or connection of the a St. was to leave to the dat FOC) in plat the downstream si to and sketch). Th rs, Tom Farhnam a on 12/28/10. On Fri when taking measu erent plan. They w the curb and into the curb and into the curb and into the curb and into the curb and into the curb and into the curb and into the curb and into the curb and into the curb and int	<ul> <li>e 6in Fire Service</li> <li>the existing 6in gate</li> <li>ce and connect the</li> <li>de of the old valve</li> <li>is plan was proposed</li> <li>and Dan Helminiak,</li> <li>day 1/28/11 the</li> <li>rements for the tie-</li> <li>ant to extend the new</li> <li>the basement, and</li> <li>nside the basement</li> </ul> th building owner to <ul> <li>ayout and a detail</li> <li>I penetration, as well</li> <li>sting water line is</li> </ul>			See RFI U-00 Water Service	93, 46 Minna 6i a Lateral at STA	n FS Water & 1i	n Copper	
U-0091	SSMH #301 Lo	ocated in Crosswalk at Nato	ma STA 0+81.72	Closed	02/01/2011	02/11/2011	02/24/2011	Potentia	lly 🗌
From: Webcor Con:	struction LP	Nhi Tran	To: Turner Construction (	Compan Michelle Smith	Answered By	AECOM Tech	nical Service Eric	Zagol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Sheet U	-3010				Construct sev	ver manhole #3	01 at the location	shown	
SSMH #301 is sho <sup>,</sup> 0+81.72.	wn to be located in	the crosswalk at Sta			manhole cove	er (ADA complia	int) is forthcomin	g.	
Please confirm that crosswalk.	t it is to be located	in the pedestrian							
11-0092	AWSS School	le Restrictions		Closed	02/02/2011	02/12/2011	02/10/2011	Potentia	
From: Webcor Con	struction LP	Richard Buellesbach	To: Turner Construction (	Compan Michelle Smith	Answered By	AECOM Tech	nical Service Eric	Zagol	



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<b>REQUEST:</b> Webcor/Obayashi has received Bid Addendum #1 for the TG04.2R bid. As part of this addendum, note number 8 under "General Notes" on sheet U-0008 is deleted. This note had previously placed a constraint on the AWSS construction schedule that the Mission Street work must be complete prior to cutting both the Beale Street and the 1st Street lines. It was acceptable to abandon one or the other prior to the Mission Street work but not both. Based on the deletion of this note, it is our understanding that there is no schedule constraint on any of the AWSS		ddendum #1 for the Im, note number 8 08 is deleted. This nt on the AWSS n Street work must Beale Street and the abandon one or the but not both. s our understanding n any of the AWSS	SUGGESTION:		ANSWER: 02/11/2011 - 1 Smith & Kevir 0092 is not cc the following I "TJPA is curre determine wh improvements mains on Firs complete." Please be sur Constructware	Accept Sug Richard Buelles o Chiu - The rec omplete. We req anguage from the ently coordinating en AWSS impro- s required to aba- t and Beale stree t that this RFI r	gestion: bach Email to Mid eived response to juire a final resolu- ne RFI response: ig with SFPUC to ovements, other th andon existing AV iets, are required emains open in	chelle b RFI U- ition for han the VSS to be					
system modification proceedures at 1st required for constru confirm.	is other than the c Street and Beale S ction of the TTC B	utting & capping Street which are Building. Please			02/10/2011 - I constraint has on U-0008 (re SFDPW BOE MA-5, MA-6, I TJPA is curre determine wh improvements mains on Firs complete.	Eric Zagol - The been removed v. 2 01/31/11) a AWSS drawing MA-8, MA-10, M ntly coordinating en AWSS impro s required to aba t and Beale stre	construction seq per GENERAL N ind as detailed in is (rev. 1 01/31/1 IA-11 and MA-19. g with SFPUC to ovements, other th andon existing AV iets, are required	uence IOTE 8 1) MA-0, nan the VSS to be					
U-0093	46 Minna 6in F	-S Water & 1in Copper Wa	ater Service Lateral at STA 5+17 Tie	-In Closed	02/03/2011	02/13/2011	02/07/2011	Potentia	lly				
From: Webcor Cons	struction LP	Nhi Tran	To: Turner Construction Comp	oan Michelle Smith	Answered By	AECOM Tech	nical Service Eric	Zagol					
Co-Autnor: REQUEST: SU Reference Sheet U-3108, attached sketches, and material information sheets At 11:30am on 2/2/2011, Michelle Smith (Turner), Eric Zagol (AECOM), Guy Hollins (TJPA), Rick Bowling (46 Michelle State Sta			SUGGESTION:		ANSWER: Accept Suggestion: AECOM has coordinated with SFPUC Engineering (Chi Yu, Division Manager) and SFPUC inspector (Eugene Shu) and the direction agreed to is as follows:								
Inspector), SFWD v (Trinet), Jason Dun Saldana (Webcor C Service Lateral and Minna building.	vater department o ne (Webcor Obaya bbayashi) met to di 1in Water Service	crew, Robert Friend ashi), and Mario iscuss the 6in Fire a Lateral for the 46		6-inc 1. C exist SFV				<ul> <li>6-inch Fire Service Renewal -</li> <li>1. Coordinate with SFWD for the shutdown of the existing 6-inch fire water service. Shutdown by SFWD. SFWD to coordinate shutdown with SFFD.</li> </ul>					



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2. Neatly remove existing fill material between the existing pipe and wall penetration to dislodge and free the existing pipe such that it can be removed by

4. Remove excess fill material to create flat even

1. Coordinate with SFWD for the shutdown of the

2. Neatly remove existing fill material between the

the existing pipe such that it can be removed by

3. SFWD to cut and remove existing pipe.

SFWD to install and connect new service.
 Fill void between pipe and exposed wall penetration

existing domestic water service. Shutdown by SFWD.

existing pipe and wall penetration to dislodge and free

5. SFWD to install and connect new service.

6. Restore wall per SK-U-0005 attached.

3. SFWD to cut and remove existing pipe.

surface for link seal type pipe sleeve.

1-inch Water Service Renewal -

SFWD.

SFWD.

with non-shrink grout.

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SFWD has proposed the new tie-in pipe configuration.
1. New 6in Fire Service Lateral Tie-in at 46 Minna St (See
Attachment A)

- Old existing fire service lateral is to be cut out of the existing water main up to the gate valve as shown in the sketch, and replaced with straight pipe. A new 10in hole is to be core drilled into the existing basement wall 22in east of the existing service lateral to incorporate the new 6in fire service lateral. SFWD will run the new 6in fire service lateral through the hole and Trinet is to provide Link Seals (see attached material information sheets) to seal the space between the new pipe and wall hole.

2. New 1in Copper Service Lateral Tie-in at STA 5+17 (See Attachment B)

- Old existing 1in plastic poly pipe is to be cut and plugged with non shrink grout. A new 2in hole is to be core drilled 4in east of the existing 1in service, to incorporate the new 1in copper service lateral. The space between the new pipe and wall hole will be sealed with non-shrink grout.

Please advise if this is acceptable. An expedited response is requested.

J-0093.1	46 Minna 6in I	FS Water & 1in Copper \	Water Service Lateral at STA 5+17 Tie-In Closed	02/16/2011 02/25/2011 02/17/2011 Potentially
From: Webcor C	onstruction LP	Nhi Tran	To: Turner Construction Compan Michelle Smith	Answered By: AECOM Technical Service Eric Zagol
Co-Author:				
REQUEST:			SUGGESTION:	ANSWER: Accept Suggestion:
Reference Resp attached sketch	oonse to RFI #U-0093	, Sheet U-3108, and		Confirmed. Fill the void on the property side with 2-5 inches of non-shrink grout, finishing grout flush with the inside wall
The SFWD com service change- Part of the detai 0093 for the 46 I not be installed the SFWD.	pleted the 1in domes overs on 02/15/2011. led provided in the re Minna 6in Fire Service due to the angle of the	tic and 6in fire water sponse to RFI #U- e water lateral could e pipe installed by		



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the incl insi	e direction is to fill the void on the pro hes of non-shrink grout, finishing gro ide wall.	operty side with 2-5 out flush with the							
U-0094	Joint Trench Al	ignment Conflict With (	E) Steam MH at Minna St. STA 0+85	Closed	02/03/2011	02/13/2011	02/04/2011	Potential	ly 🗌
Fro	m: Webcor Construction LP	Nhi Tran	To: Turner Construction Compa	n Michelle Smith	Answered By:	AECOM Techn	ical Service Eric 2	Zagol	
Co-Autho	or:								
RE	QUEST:		SUGGESTION:		ANSWER:	Accept Sug	estion:		
Ret	ference Sheet U-3107 revised 12/27	7/10			Steam MH at S	STA 0+75 has b	een abandoned	by NRG	
The cro	e revised drawings show the Joint T ssing through an existing old steam	rench alignment MH (Sta 0+85).			Energy. Demo 12/27/10) and documents.	blish as indicate in accordance v	d on U-1107 (rev vith the contract	·. 1	
fac is a	e of the curb of Minna St. Trinet beli an abandoned structure.	eves that this vault			Coordinate wit 644-9668 throu pick up of the	h Mike Eurkus ( ugh the TJPA's	NRG Energy) at representative fo	(415) r the	
Trir der	net requests direction for abandonm molition of this structure.	ent and/or				salvayeu steam	with this and cov		
U-0095	Utility Company	y Contacts		Closed	02/03/2011	02/13/2011	02/04/2011	Potential	ly 🗌
Fro	m: Webcor Construction LP	Nhi Tran	To: Turner Construction Compa	n Michelle Smith	Answered By:	Turner Constru	ction Comr Kevir	n Chiu	
Co-Autho	or:								
RE	QUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Rei	ference Sheet U-0002 General Note	es - Existing Utilities			"M Squared ha numbers"	is tried to conta	ct most of these		
She nur city nur cur	eet U-0002 - EXISTING UTILITIES mbers for contacting various utility c /. M Squared has tried to contact mo mbers and each one has had either rrently not in service.	ists several phone ompanies in the ost of these no answer or is			Please provide Squared has tr	a list of the spo ied to contact.	ecific agencies th	at M	
M S utili nec	Squared requests a list of active pho ity companies listed. An expedited r cessary due to utilty conflicts.	one numbers for the esponse is							



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U-0096	PG&E Conflic	t with Sewer Installation	at Natoma STA 9+50	Closed	02/09/2011	02/19/2011	02/14/2011	Yes	
From: Webcor Con	struction LP	Nhi Tran	To: Turner Construction C	compan Michelle Smith	Answered By	Turner Constru	ction Comr Kevir	n Chiu	
Co-Author:									
REQUEST:	1 2012 and attache	d drawing	SUGGESTION:		<b>ANSWER:</b>	Accept Sug	gestion:		
On 02/07/2011, M be a live PG&E du excavation on Nato conflict, M Squared the sewer (See att Superintendant me PG&E Representa and is not due to b	Squared encounte ct bank during thei oma Street STA 9+ d was unable to co achment). On 02/0 et with a PG&E Rej tive confirmed that e decommissioned	red what appeared to r sewer installation 50. Due to this ntinue excavating for 9/2011, M Squared's presentative and the duct bank is live if or at least 3			See CR U-006  02/10/2011 Er Demolition and 1112 and U-1	5 issued on 2/14 ric Zagol d Construction 5	/11  Sequence shown wence order that	on U- the	
and is not due to be decommissioned for at least 3 months. In order for M Squared to continue with the sewer installation, M Squared is proposing to: - install MH #305 and begin installing pipe west of MH #305 - perform a temporary connection from MH#305 to the existing 3' x 5' brick sewer					all services cu abandoned by experienced c structures on sewer constru	to commence a ir Phase I work it over and exist PG&E. Given onstruction dela First Street, the ction is accepta	fter PG&E has in Natoma and F ing duct bank is the fact that PG& ys associated wi proposed sequer ble.	irst St., E has th their nce for	
M Squared can the once PG&E has de	en perform the rem ecommissioned the tes that the additio	ainder of the work e duct bank. nal cost to perform			Submit a temp Coordinate wit HP Gas along demolition.	oorary connectic th PG&E to aba Natoma per U-	n detail for review ndon the existing 1112 and U-1120	w. 2-inch prior to	
Please confirm how M Squared reques currently stopped v	w you would like M ts an expedited res work and awaiting a	Squared to proceed. sponse as they are a response.			Coordinate with Verizon to abandon existing (labeled "U" on base plans) prior to demolitie 1112 and U-1120.				
U-0096.1	PGE Conflict	with Sewer on Natoma at	First Workaround	Closed	02/15/2011	02/25/2011	02/18/2011	Potential	ly 🗌
From: Webcor Con	struction LP	Nhi Tran	To: Turner Construction C	Compan Michelle Smith	Answered By	AECOM Techr	ical Service Eric 2	Zagol	
Co-Author:					-			0	
REQUEST: Reference U-3012 Per response to RI attached connectic	and attached sket FI#U-0096, M Squa on detail.	ch ared has provided the	SUGGESTION:		ANSWER: Proceed with t Squared conn	Accept Sug the temporary co ection detial.	gestion:	Μ	
Please confirm if it	is acceptable to p	roceed							



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U-0097	PG&E Conflict	with Sewer Instll on Na	toma at First	Closed	02/10/2011	02/20/2011	02/14/2011	Potentially
From: Webcor Cons	truction LP	Nhi Tran	To: Turner Construction Compared	n Michelle Smith	Answered By:	AECOM Techr	ical Service Eric	Zagol
Co-Author:								
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:	
Reference Sheet U-	-3012				Demolition and	Construction S	Sequence shown	i on U-
Following on from M has confirmed in the between the propos duct bank on Natom conflict is between t and the top of the n The elevation of bot	A Squared's RFI #U e field that there is a red sewer and the e ha between STA 9+ the bottom of the el ew 24" sewer pipe.	I-0096, M Squared a grade conflict existing electrical -30 to 9+50. The lectrical duct bank			sewer work is t completed thei all services cut abandoned by Proceed per re	o commence and r Phase I work over and exist PG&E. sponse to RFI	fter PG&E has in Natoma and F ng duct bank is U-0096.	First St.,
M Squared has also concrete encased c occupied by 12KV li abandoned in the fu a schedule for this v Please advise M Sc	o confirmed with PG onduits are occupie ines. The duct bank iture but PG&E was work. guared on how to pr	G&E that 3 of the 4 ed, 2 being k is to be s unable to provide roceed.						
U-0098	Potholing at Bl	ackrock		Closed	02/10/2011	02/20/2011		Potentially
From: Webcor Cons	truction LP	Nhi Tran	To: Turner Construction Compared	n Michelle Smith	Answered By:			-
Co-Author:								
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:	
M Squared is plann STA 9+40, First St confirm the alignme main on First St. fro	ing to pothole next STA 1+50 and First ant and depths of th om Howard to Nator	week at Howard t St STA 2+10 to e new 12" water ma.						
Guy Hollins from TJ Blackrock is reques hours to determine	IPA has advised M ting additional poth locations of AT&T f	Squared that loling in the off- facilities in the area.						
Please provide M S locations of the add the requested depth	quared information tional potholes requ is and sizes.	regarding the uested, including						
U-0099	Returned Subm	nittal Comments		Closed	02/16/2011	02/26/2011	03/11/2011	Potentially

From: Webcor Construction LP

David Hungerford

To: Turner Construction Compan Michelle Smith

Answered By: Turner Construction Comr Kevin Chiu



From: Webcor Construction LP

Nhi Tran

Webcor/Obayashi Joint Venture

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Answered By: Turner Construction Comr Daphne Faulkner

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Co-Aut	hor:									
R	EQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
R	ef Spec section 01	13 10		VOID - See RFI #T-0051		See RFI T-005	1, Returned Su	ubmittal Comment,	for	
A th in	according to the Acting submittal specific adjustment of the submittal specific adjustment of the submittal specific adjustment of the submitted specific adjustment of the specific adjustment o	on and Distributio ations, Submittal following:	on (section 1.11) of Is shall be returned			response.				
N M R R	lo Exceptions Taker lake Corrections No levise and Resubmi lejected	n ted t								
W "F ac sp	Ve have received su For Record Only". F cceptable and shou pecifications.	bmittals back as Please confirm th Id be incorporate	"Not Reviewed" or ese responses are d into the							
U-0100 Fr	om: Webcor Constr	Minna St MH#	207 Proposed Relocation	To: Turner Construction Corr	Closed	02/18/2011 Answered Bv:	02/28/2011	02/22/2011	No	
Co-Aut	hor:					· · · · · · · · · · · · · · · · · · ·			ugoi	
R	EQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
R	eference Revised S	Sheet U-3009 and	l attached sketches			Proposed desig	gn change is a	cceptable.		
Ti a 02 th cc M S th in at	the current location of cap on the existing 2/17/2011) in Trinet ne old water main mould create a dange 1H#207. Trinet propert 9+21.87 +/-, as the cap is outside of twert elevation for the ttached sketch.	of MH#207 at ST water main (insta 's excavation. Tri ay not be adequa rous condition fo oses to move MH shown in the atta Trinet's MH exca e new MH locatio	A 9+25.87 will place alled by SFWD on net is concerned that ately restrained and r their excavation for I#207 4 feet west to ached sketch, so that vation. The revised on is shown on the			AECOM sugge modification.	ests no change	to contract price fo	or this	
Р	lease confirm if this	is acceptable,								
U-0101		First St CB#50	1 Conflict with Existing Utili	ties	Closed	02/22/2011	03/04/2011	02/28/2011	Yes	

To: Turner Construction Compan Michelle Smith



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Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	<u>Proceed</u>	
Co-Author:										
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Reference S	Sheet U-3021, attached sk	ketch, and USA ticket			Pending appro	val by the TJP	A, a deductive Cl	R will be		
<ul> <li>During excavation for CB#501, Trinet encountered what appears to be a PG&amp;E vault (shown in plans as EMH 7712), PG&amp;E Duct (Shown in plans as 1- 2" &amp; 4-6" EP), 2-2" steel conduits (not shown in plans), and a concrete shoring wall (not shown in plans).</li> <li>The 2-2" steel pipe is in conflict with Trinet's installation of CB#501, and will need to be relocated or abandoned to facilitate the installation of the catch basin. Trinet has done their due diligence (2nd and 3rd No Response follow ups) and these lines were not marked by the owner through USA (attached). Trinet requests direction on the relocation/abandonment of these utilities.</li> <li>Trinet proposes to move CB#501 two-feet north to avoid the conflict with the existing EMH 7712. Please advise if</li> </ul>					 02/28/2011 - E Following AEC Center Project 12/20/10), furt Ramps & Den documents, ar demolition of t and the timing longer required Delete catch b sewer lateral.	<ul> <li></li></ul>				
this is accep	otable.									
U-0102	First St. CB#2	06 in Conflict with (E) Su	bsurface Conc. Structure / Duct Bank	Closed	02/23/2011	03/05/2011	03/04/2011	Potentia	ly 🔄	
From: Webc	or Construction LP	Nhi Tran	To: Turner Construction Compared	n Michelle Smith	Answered By	Turner Constru	uction Comr Dapl	hne Faulkne	·	
Co-Author:										
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Reference S During Trine	Sheet U-3009 and attache	d sketch and photo ment of CB#206 on			Pending approval by the TJPA, a deductive CR will be issued.					
9+31), they or concrete contract dra approximate existing con drawing). Trinet reque catch basin CB#206.	encountered a concrete s encased duct bank not in wings. The existing catch ely 30in deep and is const crete structure/duct bank ests direction on the demo and the installation of the	subsurface structure dicated on the basin is ructed on top of the (see attached lition of the existing new catch basin			03/04/2011 - E As determined AECOM and V including an al along Minna S wall for the 10 telecommunic create a situat basin would re unforeseen de	Fric Zagol during a site v V/O; existing ur bandoned sub- treet, an active 0 First St. prope ations concrete ion where the ir equire an extens motion.	isit on 3/3/11 with foreseen conditi sidewalk baseme sub-sidewalk ba erty, and an abar duct along First hstallation of a ne sive amount of	n Trinet, ons ent wall sement idoned Street ew catch		



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					In lieu of insta existing modif	alling a new catc fy the existing ca	h basin barrel to atch basin as follo	replace ows:			
					Clean interior Apply 1/2-inch walls and bott Install cast iro Install pipe cu in Plans. New existing culve depth of cove	Clean interior walls and bottom. Apply 1/2-inch think uniform layer of mortar on interior walls and bottom. Install cast iron trap. Install pipe culvert and connect to MH#207 as shown in Plans. New culvert size and invert shall match existing culvert at catch basin. Use ductile iron pipe if depth of cover is less than 3 feet.					
U-0102.1	Catch Basin #	206 redesign		Closed	04/01/2011	04/11/2011	04/13/2011	Potentia	ly 🗌		
From: Webco	or Construction LP	Colin Azevedo	To: Turner Construction C	Compan Michelle Smith	Answered By	AECOM Tech	nical Service Eric	Zagol			
Co-Author:											
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:				
Please clarif of CB#206:	y the following items relat	ting to the re-design	Eric Zagol 4/12/2011: 1) S acceptable. 2) MJ DIP for	ikaTop 123 Plus mortar is 22.5 degree fittings is swith less than 3 feet of							
1) The only specification section addressing mortar coating is in 33 31 10 Paragraph 2.1.I, which specifies a "Wet Spray Mortar" application. This process would be cost prohibitive for coating only one catch basin. Trinet proposes the use of "SikaTop 123 Plus" mortar - product data sheets are attached. Please advise if this product is acceptable or specify an alternate material.		cover.									
2) The RFI re for culvert ru bends are re prefer to use these are ac	esponse directs Trinet to ns with less that 3' of cov quired to construct the cu Mechanical Joint Fittings ceptable.	use ductile iron pipe rer. If 22.5% DI Ilverts Trinet would s. Please advise if									
U-0103	Natoma St. 4in	n Water Line Conflict with	MH#306	Closed	02/24/2011	03/07/2011	02/24/2011	Potentia	ly 🗌		

To: Turner Construction Compan Michelle Smith

From: Webcor Constructi	on LP
-------------------------	-------

Co-Author:

REQUEST:

SUGGESTION:

Nhi Tran

ANSWER: Accept Suggestion:

Answered By: AECOM Technical Service Eric Zagol



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Reference Sheet U-1113 and U-3113 A 4-inch water line runs from east to side of Natoma from Sta 9+40 to Sta 10+95, the 4-in water line 90degrees 400 Howard St. This building howeve from the existing 8-inch line on 1st St and Natoma. Is this 4-inch water lateral at Sta 10+ already abandoned? If not, can M So It is currently in conflict with the prop- MH#306, and is also in conflict with t shoring for the new 30-inch sewer alo (TG04.1).	west on the south 10+95. At Sta into the building at r, appears to be fed between Howard 95 on Natoma uared abandon it? beed location of he excavation and ong Natoma		It is AECOM's understanding that the existing 4-inch lateral is "killed" (not supplying water) however the "killed" lateral may still be pressurized up to the lateral terminal point at the gate valves located on the south side of Natoma Street at Natoma Street STA 10+95. Demolish 4-inch water as indicated on U-1112, U- 1113 and U-1120. Prior to demolition: 1. Coordinate with SFPUC inspector to confirm 4-inch lateral is "killed". 2. Coordinate with SFPUC inspector to confirm that the lateral is not pressurized and that the 4-inch gate valve at Natoma Street STA 9+40 (intersection with existing First Street 8-inch water main) is closed. 3. Coordinate with SFPUC inspector and install cap in First Street as shown on U-1120 at Natoma STA 9+55 +/
U-0104 Natoma St. Te	emporary Sewer Connect	tions at Sta 9+25 and Sta 7+20 Closed	02/24/2011 03/06/2011 03/01/2011 Yes
From: Webcor Construction LP	Nhi Tran	To: Turner Construction Compan Michelle Smith	Answered By: AECOM Technical Service Eric Zagol
Co-Author:			
REQUEST:		SUGGESTION:	ANSWER: Accept Suggestion:
Co-Author: REQUEST: Reference Sheets U-1112, U-1120, U-3012, and RFI#U- 0096 In order for M Squared to install the new water main on Natoma Street between Sta 6+40 to Sta 10+00, the existing 3'x5' sewer must first be demolished. The 3'x5' sewer cannot be demolished until the new 24-inch VCP has been installed and connected to the existing sewer on First Street at Sta 9+59. Per sheets U-1112 and U-1120, the new 24-inch sewer is to be constructed after the demolition of the PG&E ducts. However, demolition of the PG&E ducts cannot be completed because PG&E has not completed their reflection work			Due to existing PG&E duct in conflict caused by PG&E's delay with First St. Phase I relocations, the two 12-inch temporary HDPE connections as proposed are acceptable as an interim condition until PG&E Phase I work is complete and the existing duct in conflict can be demolished per plans. Daphne Faulkner - Pending approval by the TJPA, a CR will be issued.



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PG&E in the field on 02/09/2011, there is a live PG&E duct bank in conflict with MH#305 and the new 24-inch VCP between MH#305 and MH#306, and not due to be decommissioned for at least three months.

M Squared proposes to install a 12-inch HDPE pipe from Sta 9+25 to Sta 9+59, and perform a temporary connection to the existing 3'x5' sewer on First Street. Surveys carried out on the electric duct bank at Sta 9+30 on 02/08/11 shows that the bottom of the Duct Bank is approx. 10.8, meaning a 12-inch pipe will fit. In addition, M Squared proposes to perform a temporary connection (also 12-inch HDPE) at Sta 7+20 from the new MH#303 to the existing 3'x5' sewer. This would allow M Squared to demolish the 3'x5' sewer from Sta 7+02 to Sta 9+59, and allow M Squared to install the water from Sta 6+40 to Sta 10+00.

M Squared estimates the cost for both of these connections is \$20,000.

An expedited response is required to avoid impact to the installation of the water line

scheduled to be completed until 06/31/2011. This would

U-010	5 Natoma St Duct Bank Conflict at Sta 12+92	Closed	02/24/2011 03/06/2011 03/01/2011 Yes
I	From: Webcor Construction LP Nhi Tran	To: Turner Construction Compan Michelle Smith	Answered By: AECOM Technical Service Eric Zagol
Co-Au	uthor:		
	REQUEST:	SUGGESTION:	ANSWER: Accept Suggestion:
	Reference Sheet U-1113, U-1122, U-3013 and attached drawing A pothole on Natoma Street at Sta 12+92 confirmed that the duct bank shown on Sheet U-3013 is in conflict with the proposed 30-inch VCP sewer (see attached drawing).		Due to existing PG&E duct in conflict caused by PG&E's delay with Fremont St. Phase I relocations, the12-inch temporary HDPE connection as proposed is acceptable as an interim condition until PG&E Phase I work is complete and the existing duct in conflict can be demolished per plans.
	Per sheets U-1122 and U-1113, the new 30-inch sewer is to be constructed after the demolition of the PG&E ducts. However, demolition of the PG&E ducts cannot be completed because PG&E has not completed their relocation work. Per PG&E's new schedule this work is not		Daphne Faulkner - Pending approval by the TJPA, a CR will be issued.



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mean M Squared's work cannot start until after this.

In order for M Squared to continue with their work, M Squared proposes the use of 12-inch HDPE pipe from Sta 12+80 to existing sewer at Sta 13+15 (proposed location of MH#602). Once PG&E has completed their cutovers and the duct bank is abandoned, M Squared will demo the duct bank per specifications and complete the installation of the 30-inch VCP sewer from Sta 12+80 to MH#602.

M Squared estimates the cost for this work is \$15,000.

An expedited response is required to avoid impact to the installation of the sewer and water line

U-0106	6 First St Sewer M	H#502 Adjustment to	Avoid Conflict w/ (E) PG&E Duct	Closed	02/25/2011 03/07/2011 02/28/2011 Potentially
F	From: Webcor Construction LP	Nhi Tran	To: Turner Construction Compa	n Michelle Smith	Answered By: AECOM Technical Service Eric Zagol
Co-Αι	uthor:				
	REQUEST:		SUGGESTION:		ANSWER: Accept Suggestion:
Reference Sheet U-3021 and attached sketch In order for Trinet to avoid a conflict with the existing PG&E duct along the west wall of their excavation, Trinet adjusted the south end of the MH#502 structure by 7 inches to the east (as shown in attached sketch). MH#502 is still aligned to incorporate the connection to the existing brick sewer, and the alignment of the new 24-inch VCP run is unaffected by this change. Trinet will adjust rebar as required to maintain the required spacing and clearances.					The sketch referenced above is based on CCSF DPW Standard #87,184 that shows the minimum reinforcing plan for the connection to the existing 3'x5' brick sewer. Provide reinforcing for connection to 3'x5' per CCSF DPW Standard. Confirm that the manhole is being constructed per CCSF DPW Standard #87,182 as shown in Detail 10 on U-5001. Provide width of west wall and location of reinforcing
Please confirm if the adjustment of MH#502 is acceptable.					steel at 3'x5' brick sewer connection and 24-inch VCP sewer connection for review.
U-0107	7 AWSS Cap Perm	it Requirements		Closed	02/25/2011 03/07/2011 02/28/2011 Potentially
F	From: Webcor Construction LP	Nhi Tran	To: Turner Construction Compa	n Michelle Smith	Answered By: AECOM Technical Service Eric Zagol
Co-Au	uthor:				
	REQUEST:		SUGGESTION:		ANSWER: Accept Suggestion:



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Numbe	er <u>Subj</u> ect			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed	
	W/O would like to confirm that other than any permits required for any excavation in the city Francisco, there is no additional permit requi city agency in order to perform work on the A	r standard / of San red by any WSS caps.			Per discussion there are no a construction b constructing u	Per discussions with Michael Smith SFDPW BOE, there are no additional permits required for AWSS construction beyond the standard permits for constructing utilities within the public right-of-way.				
					Notify CCSF S TJPA's repres work areas.	SFFD and SFPL sentative in adva	JC/SFWD throug ance the work to i	h the solate		
U-0108	B FH Relocation on Be	ale St		Closed	02/25/2011	03/07/2011	02/28/2011	Potential	ly 🗌	
F	From: Webcor Construction LP	Nhi Tran	To: Turner Construction Con	npan Michelle Smith	Answered By	AECOM Techr	nical Service Eric 2	Zagol		
Co-Αι	uthor:									
	REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:			
	Reference sheet U-3124 and attached photo				Construct FH	lateral and FH o	on the East side of	of Beale		
	See the photo attached. The proposed locati on Beale St at ~Sta 2+20 is in between a driv parking garage and a driveway for a loading discussions with Eric Zagol, please confirm t relocated to the East side of Beale St as high green line on the attached drawing.	on for the FH reway for a dock. Per ne FH is to be lighted by the			Street at STA	2+04 as snown	on SK-0-0008 a	itached.		
	Please advise.									
U-0109	9 First St Sewer Grade	Change To Conform	to Existing 3'x5' Brick Sewer	Closed	03/02/2011 Answord By	03/14/2011	03/03/2011	Potential	ly 🗌	
ا ۲۵-۸۱			10. Turner Construction Con	npan Michelle Smith	Allsweled by	AECOM Tech	nical Service Eric A	zagoi		
00-Al							. —			
	REQUEST: Reference Sheet U-3021 U-3009 and attack	ed sketch	SUGGESTION:			Accept Sug	Gestion:			
	This RFI confirms modification discussed in t Trinet and discussed with the Design Engine and W/O personnel. Trinet's field survey sho existing 3'x5' brick sewer on First Street to be	he field by er, SFDPW, ws the			U-3021 to ma 3'x5' brick sew field by contra Construct MH	tch the invert elever, elevation 6. actor. #501 at First St	evation of the exis 77 as determined	sting I in the own on		
	approximately 11-inches lower than the grad- the drawings. Trinet also checked the elevati existing SSMH (10-feet north of MH#501) an	e depicted on on of the d confirmed			U-3021 with a by contractor.	n invert elevatio	on of 7.58 as dete	rmined		



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that it is on the d elevatior connecti 11-inche maintair installed attachec Please o provide a MH#207	approximately 11-inche rawings. Trinet installed n at 6.77 to match the e ion point. The new 24-ir es lower than what is sh ning the design slope of with the invert elevatio d sketch. confirm that this design a revised grade for the ' (Minna St.) to MH#501	es lower than what is shown d MH#502 with invert existing brick sewer at the nch VCP is being installed nown on the drawings 0.0062. MH#501 will be n of 7.58, as shown in the is acceptable. Also, please 24-inch VCP run from I.			Construct MH Construct the elevation 8.67 downward slo 24-inch VCP of MH#501 at Based on disc reported 11-ir existing 3'x5' sewer in First hydro cleanin 31 10 3.2 A p	#207 per RFI-U 24-inch VCP se 7 per RFI U-0100 pe such that the at MH#501 mato elevation 7.58. cussions with Tri aches of sedime brick sewer. Ple Street was clea g equipment per rior to excavatio	100. wer from MH#207 ) at a continuous invert elevation o thes the invert elev inet in the field, Tri nt/sludge/dirt in the pase confirm that en ned with high velo specification sect n.	f (invert f the vation inet e existing city ion 33	
U-0110	Joint Pr	econstruction Survey Requiremen	Ŀ	Closed	03/02/2011	03/12/2011	03/03/2011	Potentia	lly 🗌
From: W	ebcor Construction LP	Nhi Tran	To: Turner Construction Compar	n Michelle Smith	Answered By	/:Transbay PMP	C Derric	k Cooper	
Co-Author:									
REQUE	ST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Singer h propertie Pre-Con informed Represe because instead of The surv and futu moving t	ce Specification Section has been coordinating V es for W/O's subcontract struction survey (Spec. d W/O that they were in entatives to stop schedu e TJPA will be conductin of having each individua veys are a specification re subcontractors. Plea foward.	n 01 15 40, 1.5 V/O access to the adjacent ctors to complete their Joint 01 15 40, 1.5). Singer has structed by TJPA uling the joint surveys ng one overall survey, al contractor do them. requirement for current use clarify this specification,			TJPA will be a adjacent prop scheduling th	conducting perce erty interiors. Si ese surveys for	M/O subcontracto	s of rs.	
U-0111	Minna S	t. Joint Trench Conflict with (E) 8"	elbow and thrust block	Closed	03/04/2011	03/14/2011	03/09/2011	Potentia	lly 🗌
From: W	ebcor Construction LP	Nhi Tran	To: Turner Construction Compared	n Michelle Smith	Answered By	AECOM Techr	nical Service Eric Z	agol	
Co-Author:									

REQUEST:

SUGGESTION:

ANSWER: Accept Suggestion:



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Reference drawing sheet U-3409 and attached sketch.

During our excavation for the joint trench on the east end of Minna St. (STA 9+29) Trinet encountered the (E) 8" water main in Trinet's trench line, approximately 1 foot from our termination point. The existing alignment is different from what is shown in the contract drawings. The drawings do not show the water line crossing the joint tranch. The alignment and grade of the water main changed in Trinet's excavation to avoid the adjacent catch basin. A 22.5 degree elbow is located in the center of the joint trench excavation. The elbow is rolled up to accommodate the grade change and there is a thrust block under the footing. Trinet does not believe that it would be safe to excavate under the water main for Trinet's duct bank without having the line shutoff. Extending the PG&E ducts to FOC will also place the connection point for PG&E's extension of the duct bank directly under the water main fittings and elbows. There is adequate clearance to install the 4" gas line above the water main and extend it out to FOC per contract. The top of the water main is 49" below FG at the south side of the joint trench, at the location of the ags line.

Trinet propses to terminate the concrete encased duct bank approximately 5 ft. back from FOC. This would allow adequate room for Trinet to mandrel the ducts after the joint trench is installed without undermining the water main. PG&E could then extend their duct bank under the water main to connect to Trinet's water main. Please advise.

Per request to Jason Dunne (W/O) via email on 3/4/11 please provide the following information for review:

Horizontal (from a known point i.e. FOC along First St.) and vertical location of "top of water main". Horizontal (from a known point i.e. FOC along First St.) and vertical location of water line at "22.5 degree elbow".

Determine if the water main is mechanically restrained with tie rods at each bend in questions. Approximate size of existing concrete thurst block a the "22.5 degree elbow".

U-0111.1

#### Minna St Joint Trench Conflict @ Existing Water Line Elbow

From: Webcor Construction LP

Colin Azevedo

To: Turner Construction Compan Michelle Smith

Closed

04/18/2011 04/28/2011 04/21/2011 Potentially

Answered By: AECOM Technical Service Eric Zagol

Co-Author:

#### REQUEST:

Please find the attached as built drawing of the Joint Trench @ the intersection of Minna St. and First St. where the (E) 8" W main elbow was encountered.

#### SUGGESTION:

ANSWER: Accept Suggestion:

Eric Zagol 4/20/2011: Please provide the information requested in RFI U-0111 response or confirm that the existing water line referenced in RFI U-0111 is mechanically restrained.



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					Construct Joir Refer to ASI-0 First Street.	nt Trench to limi 105 for the Joint	t as indicated in Trench extensio	Plans. n into	
U-0111.2	Minna St Joi	nt Trench Conflict @ Existi	ng Water Line Elbow	Closed	04/25/2011	05/05/2011	04/28/2011	Potential	ly 🔄
From: Webco	r Construction LP	Colin Azevedo	To: Turner Construction Co	ompan Gary Krutsch	Answered By	AECOM Techr	nical Service Eric	Zagol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Eric Zagol 4/2 requested in existing wate mechanically	20/2011: Please provide RFI U-0111 response ou r line referenced in RFI restrained.	the information r confirm that the U-0111 is			Eric Zagol 4/ response.	26/2011 Procee	ed pre RFI U-011	1.1	
Answer: The	waterline is mechanical	ly restrained.							
U-0112	Minna St. Joi	nt Trench, AT&T Vault and	Conduit Configuration	Closed	03/08/2011	03/18/2011	03/15/2011	Potential	ly 🗌
From: Webco	r Construction LP	Nhi Tran	To: Turner Construction Co	ompan Michelle Smith	Answered By	AECOM Techr	nical Service Eric	Zagol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference St	neet U-3408				AT&T has rev	iewed the inform	nation and has p	roposed	
At the 02/03/ and field walk	2011 Joint Trench Pre-C	Construction meeting			revisions to th following:	e Joint Trench t	to accommodate	the	
concern with connecting to	the configuration of the the AT&T vault at Sta 3	AT&T ducts 3+71. The AT&T			1. Revised inf Mission St. se	ormation from A ervice point of co	NI&I regarding 5	55	
inspector was	s specifically concerned	with the east side of			2. AT&T prefe	rred Minna St. A	AT&T vault condu	uit	
the vault whe the vault on t	he one side (north side)	of the center line.			penetration lo	cations			
Trinet would connection to drawings and make a chan	like AT&T to review the the vault as depicted in provide a revised drawi ge.	duct configuration the contract ing if they wish to			Attached SK-U STA 3+71 but penetrations a alignments. F being prepare revisions as w 0088	J-0009 is a mar terfly drawing in and schematic d Revised Minna S d as part of ASI rell as changes a	kup of the AT&T Idicating conduit liagram of condui St. Joint Trench F #3 to address the associated with F	Vault at it Plans are ese RFI U-	



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Number	Subject			Status	Date Created	Date Date C Created Required Answered Im						
U-0113	AWSS Cap on	First St. at Howard		Closed	03/08/2011	03/18/2011	03/10/2011	Potentiall	У			
From: Webcor Constr	uction LP	Nhi Tran	To: Turner Construction Compar	n Michelle Smith	Answered By	AECOM Techn	ical Service Eric 2	Zagol				
Co-Author:												
REQUEST:       SUG         Reference Drawing No. AWSS MA-5       On 03/08/2011, M Squared excavated and exposed the existing AWSS line and gate valve on First St. at Howard. Upon inspection of the existing gate valve, it appears that the gate valve does not have lugs on it. This means that M Squared cannot tie back the proposed 10-inch AWSS cap on the AWSS line.         Please advise on how you would like M Squared to proceed with the cap installation. An expedited response is requested.			SUGGESTION:		ANSWER: Accept Suggestion: Michael Smith (SFDPW BOE), AWSS Engineer of record, will provide response directly to PMPC/Turner. 							
U-0113.1 From: Webcor Constr Co-Author:	AWSS Strong	Backs Nhi Tran	To: Turner Construction Compar	Closed	03/17/2011 Answered By	03/27/2011 Turner Constru	03/22/2011 Iction Comr Kevir	Potentiall	у 🗌			
REQUEST: Reference RFI #U-01 On 3/16/2011, M Squ SFWD and Michael S AWSS Cap work at F response to RFI#U-0 back provided to ther Dan H. and Michael S would not work due to bell. M Squared requests	13 Smith from BOE t First & Howard. A 013, M Squared in . After the stron 5. determined that the diameter of direction on how	an Helminiak from o proceed with the s directed in the nstalled the strong g back was installed, it the strong backs the existing valve to proceed.	SUGGESTION:		ANSWER: See attached to Street RFI No. 03/22/11 for he of SFDPW/BC copied into CV "- Proceed witt rods. - A minimum of north of cap at at Mission/First - Additionally to be increased to the existing ab 4' downstream	Accept Sugg file, "RFI U-0113 113.1 BOE Re andwritten respo DE/Mechanical. V: h installation wit of 100' of out-of- t First/Howard s t streets shall re he specified cor by 3 times the ve andoned-in-plan of steel plate. s (2) shall be ret	gestion:	I First " dated Smith was and tie ain of cap k shall npass nce of				



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Number	Subject		Status	Date Created	Cost Impact	Proceed					
U-0114	PG&E Abando	onment Schedule for Nat	toma St. at Second St.	Closed	03/09/2011	03/19/2011	05/07/2011	Potential	ly 🗌		
From: Webcor C	onstruction LP	Nhi Tran	To: Turner Construction C	ompan Gary Krutsch	Answered B	AECOM Tech	nical Service Eric	Zagol			
Co-Author:											
REQUEST:			SUGGESTION:		ANSWER: Accept Suggestion:						
Reference Shee	et U-1110 and U-2010				Eric Zagol 3	/18/2011 ***5/5/	11 UPDATE***				
On 03/04/2011, representative o PG&E represent had been aband representative w this abandonme Per note 2 on sh and 83 Natoma si date, this work d In PG&E's letter there is no refere M Squared is un utility installation PG&E has comp utilities. Please provide M all PG&E's termi Natoma St.	M Squared met with a in site at Natoma and tative confirmed that is loned in the area, and yould be unable to pro- int. heet U-1110, the serve were to be terminated does not appear to be to the TJPA regarding ence to work on Natoma hable to proceed with n on Natoma St. west bleted abandonment of M Squared with an up ination/abandonment	a PG&E 2nd Street. The none of their utilities I that the PG&E ovide a schedule for ices for 77 Natoma d by Feb 2011. To completed. ag their schedule, ma Street at 2nd St. their sewer and water of shoring wall until of their existing dated schedule for work at 2nd and			77 Natoma au terminated, re by W/O, Turm As of 5/4/11, be de-energiz remaining ele ***3/18/11 RE Per demolitio sheet U-1110 after PG&E h First St., Nato abandoned by PG&E service been termina Ramps Demo are currently Representativ service condu subject to der To facilitate s to de-energiz effort to re-se PG&E's resp forthcoming.	nd 83 Natoma select to USR Nos ler and PG&E or PG&E estimate: red by 5/21/11. ectric ducts with ESPONSE*** n and construction water and sew as completed the oma St. and exist y PG&E. les to 77 Natoma ted as part of the oblition Project. Us being prepared for ve (Turner). The uits and cables to molition as indice chedule, AECO e Natoma St. to opuence construc- tionse and sched	ervices have bee . 11 and 13 as e h 4/21/11. s that Natoma Si Coordinate USF Turner and PG& on sequencing s rer work shall cor- teir Phase I reloc sting electric duct a and 83 Natoma e Existing Termin JSRs for these si by the TJPA's e USRs shall indi- hat are abandon ated in sheet U-' M has requested the extent possi- ction of the sewer fulle of abandonn	en xecuted reet will Rs for the E. hown on nmence ations in ts are have hal & ervices cate the ed 1110. PG&E ble in an tr. hent is			
As shown on U-3110 the water line could constructed prior to PG&E abandoning to Pothole to confirm the water line can be as shown on U-3110.				er line could be bandoning their f line can be const	acilities. ructed						

AWSS Cap Work Sequence on First St

Nhi Tran

U-0115

Closed

03/07/2011 03/17/2011

03/15/2011

Yes

Answered By:



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Co-Author:			Turner Construction Con	npan Michelle Smith		Turner Constru	uction Comr Kevi	n Chiu	
REQUEST			SUGGESTION			Accort Sug	astion.		
Refer to She	ets MA-5, MA-8				The below res	sponse was cop	ied into Construc	tware	
There are tw order to shut Mission to Hi caps were su Please confii 03/07/2011 v Dan Helmina installed at a	o caps that are required down the AWSS service oward St. Per the constr upposed to be worked or m per a conversation in vith inspectors Michael S (k (DPW), only one AWS time.	to be installed in on First St between uction schedule, both simultaneously. the field on Smith (SFDPW) and SS cap can be			on behalf of Michael B. Smith SFDPW/BOE/Mechanical (see attached, "R 1490J Phase I First Street BOE Response O "Installing/capping of the AWSS lines at two in sequence instead of simultaneously was a made by the SFWD/CCD together with SFF contact Dan Helminiak of SFWD/CDD at (4' 4821 for further information" - Michael B. Sn SFDPW/BOE/Mechanical dated 03/11/2011  03/14/2011 - Eric Zagol Michael Smith from SFDPW BOE will respo RFI.				
U-0116	Abandoned 6	" Fire Water Service Thru	100 First St Basement Wall	Closed	03/18/2011	03/28/2011	03/21/2011	Potentia	lly
From: Webco	r Construction LP	Nhi Tran	To: Turner Construction Con	npan Michelle Smith	Answered By	AECOM Tech	nical Service Eric	Zagol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Refer to shee	ets U-1109 and U-3109				Contractor ha inch fire wate	d knowledge of r service at STA	existing abandon	ed 6-	
An abandone discovered w running dowr was not show water valve o The abandor entering the Please provid left after 100 lateral pipe.	ed existing 6" fire water s thile demolishing the old in Minna St. The 6" fire w vn on the plans and ther covers to indicate the exi- led lateral penetrates the basement to 100 First Si de direction for plugging First St management re A roughly 1ft x ft x 1ft de- ter the fire water lateral	service lateral was 8" water main vater service lateral e were no existing stence of this line. e foundation wall t at Station 7+36. the void that will be moves the 6" water ep square opening			Existing aban ~7+36 was ex 11/19/2010 at Item No: UA0 Cut and plug accordance w face of curb a Please clarify	doned 6-inch fir sposed and poth nd included in S 000-020630A01 abandoned 6-in rith specification long the North s why private pro	e water service a loled by Trinet on ubmittal TG0405 .0 as Pot Hole N ch fire water serv section 02 41 00 side of Minna St. perty improveme	t STA -024 o. 29. ice in ) 3.6 at nts are	



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<b>U-01</b> 1	17	Natoma St. Fu	ture Hydrant Location at S	ta 11+79	Closed	03/21/2011	03/31/2011	03/24/2011	Potential	ly 🗌
	From: Webcor Constru	uction LP	Nhi Tran	To: Turner Construction Cor	npan Michelle Smith	Answered By	AECOM Techn	ical Service Eric 2	Zagol	
Co-A	Author:									
	REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Reference Sheet U-3	113				As discussed Squared) and	in the field on 3/ Dan Helminiack	21/11 with Noel ( (SFWD), constru	M uct tee	
	Sheet U-3113 shows inch water main on Na drawing makes refere location for a fire hydr dock and parking gara	an 8in x 8in x 6ir atoma at Sta 11- nce to it being u rant. Sta 11+79 i age on Natoma S	n tee in the new 8- -79. The note on the sed as a future s in front of a loading Street.			for future fire f 11+37 (4 ft mi	nydrant and late n. west of existin	ral connection at ng street light).	STA	
	Please confirm that it the tee in the water m	is intended for M ain line at this lo	I Squared to install cation.							
<b>U-01</b> 1	18	Minna Street J	oint Trench, PG&E Duct R	outing and Termination Points	Closed	03/24/2011	04/03/2011	04/06/2011	Potential	ly 🗌
	From: Webcor/Obayas	shi Joint Venture	Colin Azevedo	To: Turner Construction Cor	npan Michelle Smith	Answered By	AECOM Techn	ical Service Eric 2	Zagol	
Co-A	Author:									
	REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Please provide a rout the routing for the PG Joint Trench, betweer clear from the plans in extending from stub-c	ing drawing or w &E Duct stub-ou n First St. and Se n all cases where outs terminate. P	ritten clairification of ts in the Minna St. econd St. It is not a all the ducts lease expedite.			Please see the ducts extendir Please note th sections C, D reference A".	e attached sketo ng from stub-out nat the 2-2" conc , F and G termir	ches clarifying wh s terminate (/orig duits shown on U- nate at "stub out	ere the inate). ·3410	
<b>U-01</b> 1	19 From: Webcor Constru	Minna St. JT_ uction LP	AT&T Reconfiguration and Colin Azevedo	I impact on (E) trees To: Turner Construction Cor	Closed npan Michelle Smith	03/25/2011 Answered By	<b>04/04/2011</b> AECOM Techn	03/30/2011 ical Service Eric 2	Potential Zagol	ly 🗌
Co-A	Author:									
	REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	The revised drawings 3/16/2011 show the re through an existing tre vault at Stn. 3+71. R AT&T Vault and Conc reconfigured AT&T du well on the east side consistent with discus field was reflected in t	for the Joint Tre econfigured AT& ee well on the ea FI U-0112 (Minn duit Configuration Jucts running thro of the vault. This ssions with the A the shop drawing	nch alignment dated T ducts running st side of the AT&T a St, Joint Trench, a) also shows the ugh an existing tree conduit layout in T&T inspector in the is. The revised			Per discussion (Trinet), Dave and Colin Aze conduit peneti side of the eas grate and fram Restore tree g Protect tree an	ns on site on 3/2 Olsen (AT&T), l vedo (W/O), pro- ration for the 2-4 st to avoid direct ne as required to rrate, fame, side nd existing irriga	8/11 with Jack K. Dave Gibbons (A wide a 22.5 bend conduits on the conflict. Remov construct condu walk curb and gu tion pipes in plac	elliher T&T) at south e tree it. tter. e.	



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## 30100 - Transbay Transit Center Project

Number	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
drawings o impacted t review and	do not address relocation and/or removal of the trees and the related irrigation changes. Please d advise.							
U-0120	MH601 Locatio		Closed	03/28/2011	04/07/2011	04/05/2011	Potential	у 🗌
From: Web	ocor Construction LP Colin Azevedo	To: Turner Construction Compa	an Michelle Smith	Answered By	AECOM Techr	nical Service Eric 2	Zagol	
Co-Author:								
REQUEST Sheet U-3 Street. Thi on Fremor signal con By moving the traffic also avoid Please ad	<b>F:</b> 022 shows MH601 @ Sta 0+70 on Fremont is location is also in the middle of the crosswalk at Street. USA markings show the existing traffic duits crossing thru the center of the manhole. If the manhole approx 8¿ north the conflict with signal conduits would be avoided and it would having a manhole cover in a crosswalk. vise on how you would like to proceed.	SUGGESTION:		ANSWER: Move propose existing Traffic conduit conflic Construct 10-in 013 attached.	Accept Sug d sewer MH nor Signal t as shown in S nch CB culvert l	gestion: rth to STA 77.56 K-U-013 attached lateral as shown	to avoid d. SK-U-	
U-0121	AWSS Caps at Beale Street		Closed	03/31/2011	04/10/2011	04/06/2011	Potential	у 🗌
From: Web	ocor Construction LP Colin Azevedo	To: Turner Construction Compa	an Michelle Smith	Answered By	AECOM Techr	nical Service Eric 2	Zagol	
Co-Author:								
REQUEST	Г:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
1 - Curren (AWSS sy AWSS sys Howard St in the bid s schedule o before the Please pro be done in of work.	t bid documents for Trade Group TG04.2R rstem at Mission Street) call for capping of the stem on Beale Street near the intersections with treet and with Mission Street. Because of delays schedule for TG04.2R, the construction dictates that these caps be completed well anticipated start of the TG04.2R field work. by de details so as to allow this capping work to a advance of the awarding of the TG04.2R scope			Pothole the ex Mission street (Rev No. 1, 1/2 valve has lugs valve once exc inspector acco Details for the Beale and How valve inspectio	isting AWSS ga proposed cap lo 31/11) to detern . SFWD to insp cavated, coordir rdingly. capping work a vard will be prov on.	ate valve at the B ocation as shown nine if the existing ect condition of g nate with SFWD t Beale and Miss vided following ga	eale at o on M-6 g gate gate date	
2 - Please work is av	confirm whether the material required to do this ailable at the City of San Francisco.							

3 - Please provide direction as to how this scope of work should proceed.



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This cappir constructio requested.	ng is near critical path on t n schedule. An expedited	he current response is							
U-0121.1	AWSS Caps a	t Beale Street		Closed	05/02/2011	05/12/2011	05/05/2011	Potential	ly 🗌
From: Web	cor Construction LP	Colin Azevedo	To: Turner Construction Comp	an Gary Krutsch	Answered By	AECOM Techr	nical Service Eric 2	Zagol	
Co-Author:									
REQUEST The AWSS 4/29/2011 p that the exi Please prov Beale.	: valve at Mission and Bea per response to RFI#U-01; sting valve does not have vide details for capping the	le was potholed on 21. It was confirmed lugs. AWSS line on	SUGGESTION:		ANSWER: Eric Zagol 5/- BOE); Refer to attach on 05/04/11. ( cast lugs.	Accept Sug 4/2011 From M ned DWG M-6 F Cap is to be tied	gestion: ichael Smith (SFI Rev 1 with change d back to (E) pipe	DPW es made with	
					Eric Zagol 4/	5/2011 ***4/19/	11 UPDATE***		
					In response to	the numbered	items above:		
					<ol> <li>Refer to the documents fro abandonment/ for the work in and MA-19 for</li> </ol>	e attached mark m SFDPW BOI (capping scope Beale St. at Mi the work in Bea	tups of TG04.2R E that define the <i>b</i> for Beale Street; ssion St., and MA ale St. at Howard	AWSS MA-6 A-10 St.	
					<ol> <li>SFWD Insp that the follow Yard:</li> </ol>	bector Daniel He ing materials ar	elminiak has conf e available at the	irmed SFFD	
					Beale at Missi	on Street			
					- 1 10-inch	DI MJ spigot x (	GH spigot adapter	r	
					- 1 10-inch	DI MJ flat cap			
					- 1 18-inch :	x 18-inch x 1-ind	ch steel plate		



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			Beale at How	ard Street			
			- 4 10-inch	DI stop collar			
			- 2 10-inch	DI bell collar			
			- 1 10-inch	DI flat cap			
			Coordinate w provided by \$	rith SFWD Inspe SFWD.	ector for materials		
			3. Proceed v Representati AWSS main commencing	vith this work pe ve. Coordinate in Beale St. with the work.	r direction from T the shutdown of e SFWD prior to	IPA xisting	
			4. Submit po provided on 4	thole data for re 4/5/11 as stated	view per RFI respo below.	onse	
			*************	***************************************	******	****	
			4/5/11 Respo	onse			
			Pothole the e Mission stree (Rev No. 1, 1 valve has lug valve once e inspector acc	existing AWSS g et proposed cap /31/11) to detern s. SFWD to ins xcavated, coordi cordingly.	ate valve at the B location as shown mine if the existing pect condition of g nate with SFWD	eale at on M-6 ggate gate	
			Details for th Beale and Ho valve inspect	e capping work a oward will be pro ion.	at Beale and Miss wided following ga	ion, and ate	
U-0122	M Squared Submittals for TG04 Bid Packages	Closed	04/01/2011	04/11/2011	04/11/2011	Potentia	lly

From: Webcor Construction LP

Colin Azevedo

To: Turner Construction Compan Michelle Smith

Answered By: Turner Construction Comr Michelle Smith

Co-Author:

**REQUEST:** 

SUGGESTION:

ANSWER: Accept Suggestion:



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Please confirm the following:	Eric Zagol, 4/4/2011: AECOM suggests that the Construction Manager Oversight (Turner) confirms this
Per previous discussions it has been agreed between the	RFI.
TJPA, AECOM, Turner Webcor/Obayashi and M Squared	
that material submittals approved for use by M Squared in	Guy Hollins, 4/5/2011: Confirmed for all submittals
individual bid packages will be considered acceptable for	listed with the understanding that no deviations from
all bid packages M Squared is working on (TG04.1,	the previously-approved submittal are allowed without
TG04.3, TG04.4, & TG04.6).	the submission and approval of a separate and new
	submittal request.
These submittal include:	
	Michelle Smith, 4/11/2011: TJPA has no objection to
TG0434-002 - Excavation & Backfill Samples	subcontractors using submittals that were submitted
TG0434-003 - Excavation & Backfill Test Reports	by their OWN company and approved for a previous
TG0434-004 - Excavation & Backfill Compaction &	TG04 Utilities Relocation trade package, as long as
Warning Tape	the application is the same as the application in the
TG0434-005 - Shoring Plan	previous trade package.
I G0434-006 - Backhill Material	
TG0434-007 - Water Utilities Distribution Piping & Valves	
TG0434-010 - Asphalt Mix Design	
TG0434-013 - Noise Mitigation Plan	
TG0434-015 - CQC Plan	
TG0434-017 - SWFFF	
TG0434-016 - Deblis Malagement Flan	
TC0434-020 - Labor Patos	
TG044-001 - Labor Nates	
TG0404-002 - Either Fabric	
TG0404-002 - Concrete Forming	
TG0404-004 - Precast Concrete	
TG0404-005 - Precast Concrete Catch Basin Base	

U-0123 Unknown Fire Service @ 85 Natoma Closed 04/04/2011 04/14/2011 04/05/2011 Potentially From: Webcor Construction LP Colin Azevedo To: Turner Construction Compan Michelle Smith Answered By: AECOM Technical Service Eric Zagol Co-Author: ANSWER:

#### REQUEST:

While Excavating to install the water line on Natoma from the shoring wall to 2nd Street M Squared encountered an existing fire service going to 85 Natoma. This service is not shown on the drawings and is not in the specifications

#### SUGGESTION:

Accept Suggestion:

SFPUC Customer Service Bureau data shows an active Domestic water, an active Fire water service. and 2 "killed" Domestic water services to 85 Natoma Street.



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as one of the connections to be made to the new line. (See stached)       Coordinate with SFWD to confirm and locate the active Fire water line to 65 Nationa Street.         Please advise on how to proceed.       Provide information on location, size, and material for review.         U-0123.1       Fire Service @ 85 Natona         From: Webcor Construction LP       Colin Azevedo         To: Turner Construction Compan Michelle Smith       Answered By:Webcor Construction LP Colin Azevedo         Co-Author:       SUGGESTION:         Please note that on RFI #U-0123 the location of the fire service wate incretch d'mark.       SUGGESTION:         M Square polheled x18: 2x35 and discovered a 4, ductile iron pipe which is believe to be the active fire service with St Nationa Street.       Once confirmed, provide and install 8'x3'x4' te and 4' gate value.         U-0124       Conflict Between New 24' Sever and existing AWSS Line on Beale       Closed To: Turner Construction Compan Michelle Smith to contract documenta, E. Coordinate with SFWD Inspector for conscients by SFWD.         U-0124       Conflict Between New 24' Sever and existing AWSS Line on Beale       Closed To: Turner Construction Compan Michelle Smith the Contract documenta, E. Coordinate with the Coordinate with the contract documenta, E. Coordinate with the contract documenta, E. Coordinate with the contract documenta, E. Coordinate wi	Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
U-9123.1       Fire Service @ 85 Natoma       Closed       04/11/2011       04/21/2011       04/18/2011       Potentially         From: Webcor Construction LP       Colin Azevedo       To: Turner Construction Compan Michelle Smith       Answered By: Webcor Construction LP       Colin Azevedo         Co-Author:       SUGGESTION:       Answered By: Webcor Construction LP       Colin Azevedo         Please note that on RFI #U-0123 the location of the fire service is actually located around Sta 2+35.       M Squared potholed at Sta 2+35 and discovered a 4, ductile iron pipe which is believe to be the active fire service to statura Street.       Once confirmed, provide and install 8*/8*/4* tee and 4* gate valve.         Please advise.       Please advise.       Conflict Between New 24* Sewer and existing AWSS Line on Beale       Closed       04/07/2011       04/17/2011       04/28/2011       Potentially         V-0124       Conflict Between New 24* Sewer and existing AWSS Line on Beale       Closed       04/07/2011       04/17/2011       04/28/2011       Potentially         Co-Author:       SUGGESTION:       To: Turner Construction Compan Michelle Smith       Answered By: AECOM Technical Service LFic Zagol       Af0/72011       04/17/2011       04/28/2011       Potentially         V-0124       Conflict Between New 24* Sewer and existing AWSS Line on Beale       Closed       04/07/2011       04/07/2011       04/07/2011       04/07/2011	as ( (Se Ple	one of the connections to be made e attached) ase advise on how to proceed.	to the new line.			Coordinate wi active Fire wa Provide inform review.	th SFWD to con ter line to 85 Na nation on locatio	firm and locate th toma Street. n, size, and mate	ne erial for	
From: Webcor Construction LP       Colin Azevedo       To: Turner Construction Compan Michelle Smith       Answered By:Webcor Construction LP       Colin Azevedo         Co-Author:       SUGGESTION:       Answered By:Webcor Construction LP       Colin Azevedo         Please note that on RFI #U-0123 the location of the fire service is actually located around Sta 2+35.       SUGGESTION:       Answered Sy:Webcor Construction EV DI Diagetoria to confirm the 4" DIP is the active fire water service to 85 Natoma Street.         Please advise.       Once confirmed, provide and install 8"x8"x4" tee and 4" gate value.       Connection to existing 4" DIP fire service by SFWD.         Excaved or So Natoma Street.       Please advise.       Connection to existing 4" DIP fire service by SFWD.         Please advise.       Conflict Between New 24" Sewer and existing AWSS Line on Beale       Closed         From: Webcor Construction LP       Colin Azevedo       To: Turner Construction Compan Michelle Smith         REQUEST:       SUGGESTION:       Answered By:AECOM Technical Service Eric Zagol         M Squared has confirmed that the 14" AWSS Line shown on methed U-3024 is in is shown on the plan view but not on the elvation is 4.0, and the ropposed 24" VCP on peetide shown on the plan view but not on the elvation is 4.0, and the 4.7 awsS is 6.2. (See attached)       Answered By:AECOM Technical Service ISMH 4701 to Al224(rev 2 4/26/2011): Construct SMH 4701 to al2024 (rev 2 4/2	U-0123.1	Fire Service @	85 Natoma		Closed	04/11/2011	04/21/2011	04/18/2011	Potential	ly 🕅
Co-Author:       REQUEST:       SUGGESTION:       ANSWER: Accept Suggestion:       Eric Zagol 4/15/2011: Per response to RFI U-0123, coordinate with SFWD Inspector to confirm the 4* DIP is the active fire water service to 85 Natoma Street.         M Squared potholed at Sta 2+35.       M Squared potholed at Sta 2+35 and discovered a 4¿ ductile iron pipe which is believe to be the active fire service to 85 Natoma Street.       Once confirmed, provide and install 8*/8*/x4" tee and 4* gate valve.         Please advise.       Please advise.       Connection to existing 4* DIP fire service by SFWD.         Excavate and shore for connection in scordance with SFWD Inspector to confict with SFWD Inspector for connection by SFWD.       Excavate and shore for connection in scordance with SFWD Inspector for connection by SFWD.         V-0124       Conflict Between New 24* Sewer and existing AWSS Line on Beale       Closed       04/07/2011       04/17/2011       04/28/2011       Potentially Answered By:AECOM Technical Service Eric Zagol         Co-Author:       SUGGESTION:       Answered By:AECOM Technical Service Eric Zagol       Answered By:AECOM Technical Service Eric Zagol         M Squared has confirmed that the 14* AWSS Line shown on the plan view but not on the elevation of the existing sewer manchice. The aVMSS line is shown on the plan view but not on the elevation of the existing sewer manchice. The elwards of the elvation of the existing sewer manchice. The elvation is 4.60, and red. 47.00 47.00 15.00 antruct SEM eric 24.26/2011: Construct SEM eric 24.06/2011: Construct SEM eric 24.06/2011: Construct SEM eric 24.06/2011: Construct SEM eric 24.06/2011: Construct SEM eric	Fro	n: Webcor Construction LP	Colin Azevedo	To: Turner Construction Comp	an Michelle Smith	Answered By	Webcor Consti	ruction LP Colin	Azevedo	
REOUEST:       SUGGESTION:       ANSWER: Accept Suggestion: []         Please note that on RFI #U-0123 the location of the fire service is actually located around Sta 2+35.       M Squared potholed at Sta 2+35.       Eric Zagol 4/15/2011: Per response to RFI U-0123, coordinate with SFVD Inspector to confirm the 4* DIP is the active fire water service to 85 Natoma Street.         Please advise.       Please advise.       Connection to existing 4* DIP fire service by SFWD.         Excavate and shore for connection in accordance with the contract documents. Coordinate with SFWD Inspector for connection in accordance with the contract document with SFWD.       Excavate and shore for connection in accordance with the contract document. Coordinate with SFWD.         V-0124       Conflict Between New 24* Sewer and existing AWSS Line on Beale       Closed       04/07/2011       04/28/2011       Potentially not active fire	Co-Autho	or:								
Please note that on RFI #U-0123 the location of the fire service is actually located around Sta 2+35.       Eric Zagol 4/15/2011: Per response to RFI U-0123, coordinate with SFWD Inspector to confirm the 4* DIP is the active fire water service to 85 Natoma Street.         M Squared potholed at Sta 2+35 and discovered a 4; ductlie iron pipe which is believe to be the active fire service for 85 Natoma Street.       Once confirmed, provide and install 8*x8*x4* tee and 4* gate valve.         Please advise.       Conflict Between New 24* Sewer and existing AWSS Line on Beale       Closed         U-0124       Conflict Between New 24* Sewer and existing AWSS Line on Beale       Closed         Ord/07/2011       04/17/2011       04/28/2011         Please advise.       SugGESTION:       Answered By: AECOM Technical Service Eric Zagol         V-0124       Conflict Between New 24* Sewer and existing AWSS Line on Beale       Closed         Out/07/2011       04/17/2011       04/28/2011         Please advise.       SUGGESTION:       Answered By: AECOM Technical Service Eric Zagol         V-0124       Squared has confirmed that the 14* AWSS Line shown on sheet U-3024 is in conflict with the proposed 24* VCP on Beale Street. The AWSS line is shown on trevised U-3024.       M Squared also shown on trevised U-3024.         M Squared also shown on the plan view but not on the elevation of we not she using sewer manchole. The elevation is 4.60, and not 4.70 as shown on trevised U-3024.       AnsWER: Accept Suggestion: []         Brin C Zagol. 4/26/2011:	RE	QUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
M Squared potholed at Sta 2+35 and discovered a 4¿ ductile iron pipe which is believe to be the active fire service for 85 Natoma Street. Please advise. Connection to existing 4" DIP fire service by SFWD. Excavate and shore for connection in accordance with the contract documents. Coordinate with SFWD Inspector for connection by SFWD. Excavate and shore for connection in accordance with the contract documents. Coordinate with SFWD Inspector for connection by SFWD. Excavate and shore for connection in accordance with the contract documents. Coordinate with SFWD Inspector for connection by SFWD. Excavate and shore for connection by SFWD. Excavate and shore for connection by SFWD. Inspector for connection by SFWD. <b>U-0124</b> Conflict Between New 24" Sewer and existing AWSS Line on Beale Closed O4/07/2011 04/17/2011 04/28/2011 Potentially Answered By:AECOM Technical Service Eric Zagol Co-Author: M Squared has confirmed that the 14" AWSS Line shown on sheet U-3024 is in conflict with the proposed 24" VCP on Beale Street. The AWSS Line is shown on the plan view but not on the elevation of the elsing sewer manhole. The elevation is 4.60, and not 4.70 as shown on the plans. The invert of the 14" AWSS is 6.2. (See attached)	Ple ser loca	ase note that on RFI #U-0123 the levice was incorrectly drawn. The fire ated around Sta 2+35.	ocation of the fire e service is actually			Eric Zagol 4/1 coordinate wit is the active fi	5/2011: Per res h SFWD Inspec re water service	ponse to RFI U-0 tor to confirm the to 85 Natoma St	123, e 4" DIP reet.	
Please advise.       Connection to existing 4" DIP fire service by SFWD.         Excavate and shore for connection in accordance with the contract documents. Coordinate with SFWD Inspector for connection by SFWD.         U-0124       Conflict Between New 24" Sewer and existing AWSS Line on Beale       Closed         From: Webcor Construction LP       Colin Azevedo       To: Turner Construction Compan Michelle Smith         Co-Author:       SUGGESTION:       Answered By: AECOM Technical Service Eric Zagol         M Squared has confirmed that the 14" AWSS Line shown on sheet U-3024 is in conflict with the proposed 24" VCP on Beale Street. The AWSS line is shown on the plan view but not on the elevation view on sheet U-3024.       M Squared also shot the elevation of the existing sewer manhole. The elevation is 4.60, and not 4.70 as shown on the plans. The invert of the 14" AWSS is 6.2. (See attached)       Allow for future 24" VCP connection as indicated.	M S duc ser	Squared potholed at Sta 2+35 and c tile iron pipe which is believe to be vice for 85 Natoma Street	discovered a 4¿ the active fire			Once confirm 4" gate valve.	ed, provide and	install 8"x8"x4" te	e and	
U-0124       Conflict Between New 24" Sewer and existing AWSS Line on Beale       Closed       04/07/2011       04/17/2011       04/28/2011       Potentially         From: Webcor Construction LP       Colin Azevedo       To: Turner Construction Compan       Michelle Smith       Answered By:AECOM Technical Service Eric Zagol         Co-Author:       SUGGESTION:       SUGGESTION:       Eric Zagol 4/26/2011: Construct temporary 2-10"         M Squared has confirmed that the 14" AWSS Line shown on sheet U-3024 is in conflict with the proposed 24" VCP on Beale Street. The AWSS line is shown on revised 24." VCP on Beale Street. The AWSS line is shown on the plan view but not on the elevation view on sheet U-3024.       M Squared also shot the elevation of the existing sewer manhole. The elevation is 4.60, and not 4.70 as shown on the existing sewer manhole. The elevation is 4.60, and not 4.70 as shown on the plans. The invert of the 14" AWSS is 6.2. (See attached)       Kelocate AWSS line in Howard St., not included in package. Design forthcoming potentially to be included in TG04.2R.	Ple	ase advise.				Connection to Excavate and the contract d Inspector for o	existing 4" DIP shore for conne ocuments. Coor connection by SI	fire service by SI ection in accordar dinate with SFW FWD.	FWD. nce with D	
From: Webcor Construction LP       Colin Azevedo       To: Turner Construction Compan Michelle Smith       Answered By:AECOM Technical Service Eric Zagol         Co-Author:       SUGGESTION:       Answered By:AECOM Technical Service Eric Zagol         M Squared has confirmed that the 14" AWSS Line shown on sheet U-3024 is in conflict with the proposed 24" VCP on Beale Street. The AWSS line is shown on the plan view but not on the elevation view on sheet U-3024. M Squared also shot the elevation of the existing sewer manhole. The elevation of the existing sewer manhole. The elevation is 4.60, and not 4.70 as shown on the plans. The invert of the 14" AWSS is 6.2. (See attached)       Request of the 14" AWSS is 6.2. (See attached)       Revert and construct of the 14" AWSS is 6.2. (See attached)	11-0124	Conflict Betwe	en New 24" Sewer and ex	sting AWSS Line on Beale	Closed	04/07/2011	04/17/2011	04/28/2011	Potential	
Co-Author:       SUGGESTION:       ANSWER:       Accept Suggestion:	Fro	n: Webcor Construction LP	Colin Azevedo	To: Turner Construction Comp	an Michelle Smith	Answered By	AFCOM Techr	ical Service Fric	Zagol	.,
REQUEST:       SUGGESTION:       ANSWER:       Accept Suggestion:       Eric Zagol       4/26/2011: Construct temporary 2-10"         M Squared has confirmed that the 14" AWSS Line shown on sheet U-3024 is in conflict with the proposed 24" VCP on Beale Street. The AWSS line is shown on the plan view but not on the elevation view on sheet U-3024.       Eric Zagol       4/26/2011: Construct temporary 2-10"         M Squared also shot the elevation of the existing sewer manhole. The elevation is 4.60, and not 4.70 as shown on the plan view attached)       Belocate AWSS line in Howard St., not included in package. Design forthcoming potentially to be included in TG04.2R.	Co-Autho	or:				,			Lugoi	
M Squared has confirmed that the 14" AWSS Line shown on sheet U-3024 is in conflict with the proposed 24" VCP       Eric Zagol 4/26/2011: Construct temporary 2-10"         VCP and new SMH as shown on revised U-3024 (rev on Beale Street. The AWSS line is shown on the plan view but not on the elevation view on sheet U-3024.       2 4/26/11) and SK-U-0018. Construct SMH #701 to allow for future 24" VCP connection as indicated.         M Squared also shot the elevation of the existing sewer manhole. The elevation is 4.60, and not 4.70 as shown on the plans. The invert of the 14" AWSS is 6.2. (See attached)       Relocate AWSS line in Howard St., not included in package. Design forthcoming potentially to be included in TG04.2R.	RE	OUEST		SUGGESTION			Accent Sug	nestion:		
Please advise. Following relocation of the AWSS line, construct 24"	M S on : on   but M S ma the atta Ple	Squared has confirmed that the 14" sheet U-3024 is in conflict with the Beale Street. The AWSS line is sho not on the elevation view on sheet Squared also shot the elevation of the nhole. The elevation is 4.60, and no plans. The invert of the 14" AWSS iched) ase advise.	AWSS Line shown proposed 24" VCP own on the plan view U-3024. he existing sewer ot 4.70 as shown on is 6.2. (See			Eric Zagol 4, VCP and new 2 4/26/11) and allow for futur Relocate AW3 package. Des included in TC Following relo	26/2011: Constr SMH as shown d SK-U-0018. C e 24" VCP conn SS line in Howar sign forthcoming 604.2R. cation of the AW	ruct temporary 2- on revised U-302 onstruct SMH #7 ection as indicate d St., not include potentially to be	10" 24 (rev 01 to ed. ed in ct 24"	



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U-0124.1	Conflict Betw	een 24" Sewer and AWSS	Line on Beale	Closed	07/07/2011	07/17/2011	03/27/2012	Potential	ly 🗌
From: Webcor Cor	nstruction LP	Colin Azevedo	To: Turner Construction C	ompan Gary Krutsch	Answered By	Turner Constru	uction Comr Jeff	Thiel	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Per the response t AWSS line @ Hov advise the status o	to RFI#U-0124 a de vard and Beale is fe of this design.	esign to relocate the orthcoming. Please	Eric Zagol 7/20/2011 Des SFDPW BOE and will be tr forthcoming ASI. Schedule SFDPW BOE on 7/22/11. in the RUP OAC on 7/26/1	ign is being performed by acked and issued via a e will be discussed with An update will be provided 1.	RFIs U-128.2 of 2011 and p conflicts with future ASI. AS was uploaded Zagol for desi issued in the r	and U-124.1 we rovided tempora a full resolution SI 21, which add to Constructwa gn approval. A one hear future.	rere responded to ary solutions to u planned to come lresses these iss ire on 3/21/12 by CR for this work	in July tility via ues, Eric will be	
U-0125	Precast Catch	n Basin Bases		Closed	04/08/2011	04/18/2011	04/13/2011	Potential	ly 🗌
From: Webcor Cor	nstruction LP	Colin Azevedo	To: Turner Construction C	ompan Michelle Smith	Answered By	AECOM Tech	nical Service Eric	Zagol	
Co-Author:									
REQUEST: In lieu of a cast in M Squared would catch basin. The c precast base and i installing the preca Squared will place crushed rock as th specifications are Please confirm if t	place base per CC like to propose the catch basin barrel is it comes as one sir ast catch basin bas a minimum 6" con ne sub base. The p attached. his method is acce	SF DPW Standards, use of a precast attached to the agle unit. Before e with barrel, M apacted level layer of proposed material ptable.	SUGGESTION:		ANSWER: Eric Zagol 4/1 approved with The 5 foot cat base section t same dimens reinforcement place base. Provide a min compacted cr	Accept Sug 2/2011 Precast conditions spe chbasin barrel s o form a monol ons, compressi as the CCSF E imum 6" level la ushed rock as t	gestion: catchbasin base cified. shall be attached ith structure with ve strength and IPW Standard ca ayer of uniform he sub base.	to the the st in	
U-0126	Existing Brick	Man Hole @ Second and	Natoma In Conflict With Joint 1	French Closed	04/11/2011	04/11/2011	04/13/2011	Potential	ly 🗌
From: Webcor Cor	struction LP	Colin Azevedo	To: Turner Construction C	ompan Michelle Smith	Answered By	AECOM Tech	nical Service Eric	Zagol	
Co-Author:									
<b>REQUEST:</b> While potholing the	e Second St. Joint	Trench crossing	SUGGESTION:		ANSWER: Eric Zagol 4/1	Accept Sug 2/2011: Confirn	gestion:	oned	



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Tr is m ab de PI	rinet encountered an in conflict with the jo not shown on the pl anhole also appears bandoned. See the stailing the location of lease advise on how	e existing brick s bint trench align ans and had be s to have been p attached sketch of the manhole.	ewer man hole which ment. The manhole en paved over. The reviously and photograph			sewer manho rim elevation. Demolish anc manhole as r an elevation 2 Backfill and ro documents.	ole is filled with s d remove existin equired to const 1-foot below bot estore in accord	lurry grout to 4 fer g abandoned sew ruct the Joint Tren tom of Joint Trenc ance with contrac	et below er nch to h. t	
U-0127		Minna Street S	Sewer Manhole #201 in Cr	osswalk	Closed	04/11/2011	04/21/2011	04/13/2011	Potentia	ilv 🗌
Fre	om: Webcor Constru	uction LP	Colin Azevedo	To: Turner Const	ruction Compan Michelle Smith	Answered By	V:AECOM Tech	nical Service Eric 2	Zadol	
Co-Auth	nor:						,,,			
RI cee Ci in P the	EQUEST: lan Sheet U-3007 sh enter of the crosswal ity of San Francisco crosswalks, whenev lease advise if MH# e crosswalk.	nows MH#201 to lk @ Minna and typically avoids ver possible, for 201 should be ir	be installed in the Second Street. The clocating manholes ADA considerations. Installed outside of	SUGGESTION:		ANSWER: Eric Zagol 4// be adjusted d HP Gas main Plans. In lieu of CCS ADA complain specifications 1. MATERIAL with ASTM "S Castings" Dei strength shall qualification. 2. FINISH-S CAST, AND Y FRICTION OI CONDITIONS 3. CASTINGS FLASHING, C BLEMISHES. 4. Cover shal purposes. 5. ADA COMI HOLES NO C DIRECTION OI GREATER TI THAN ¼" THI AND THE MA 6. Cover shal	Accept Sug 13/2011: Sewer lue to an existing Construct mar SF DPW Standa nant cover that is: - The cast iron Standard Specifi signation A 48, i le considered TANDARD FINIS YIELD A MINIMI F.6 OR BETTE S. S - SHALL BE F GRIND MARKS, I incorporate a " PLIANCY- CAS BREATER THAN OF MOTION, NI HAN ¼", IF THE E RISE/RUN R/ XIMUM HEIGH I BE MADE TO	gestion: manhole location g 8-inch Water an ihole at the location rd MH cover, prov meets the followin shall be in accord cations for Gray C Class 30. The tins the primary test for SH SHALL BE RA JM COEFFICIEN R IN WET OR DF AND OTHER SU pic-hole" for lifting tINGS SHALL HA v ½" IN THE DOM O VERTICAL RIS E RISE IS GREAT ATIO NEEDS TO T SHALL BE 1/2" FIT EXISTNG FR	can not d 4-inch on per vide an g dance cast Iron el or W, AS T FOR W, AS T FOR M, AS T FO	



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					OR be MACHI SFDPW STAN 7. Cover shoul GREATER the Foundry or Eq	NED to FIT EXI IDARD PLAN 8 Id be MADE of c In THE PRODU ual, see attache	TING FRAMES I 7,190. quality EQUAL TO CTS MADE BY I ed product data s	PER O OR D&L heet.	
U-0128	AWSS Conflict	with Sewer on Fremont		Closed	04/11/2011	04/21/2011	04/19/2011	Potential	ly 🗌
From	Webcor Construction LP	Colin Azevedo	To: Turner Construction Compared	n Michelle Smith	Answered By	AECOM Techn	ical Service Eric 2	Zagol	
Co-Author	:								
REQ	UEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
A poi AWS Frem inver revea eleva propo Pleas	hole at Sta 0+52 has confirmed th S line is in direct conflict with the ont Street. The drawings show a 4 t elevation 13.0. Measurements ta al a 14" HPW line at invert elevatio tion the HPW line is in direct conf osed VCP sewer. se advise.	hat the existing proposed sewer on 4" HPW line at iken in the pothole on 8.4. At this lict with the			Eric Zagol 4/19 MH #601 and considered as elevation of th STA 0+29.5) is	9/2011 A tempo (E) MH in Howa an option. Plea e (E) MH at Hov s EL 6.4 as sho	rary connection I rd Street is being se confirm the in vard St. (Fremon wn on U-3022.	between 9 vert t St.	
U-0128.1	AWSS Conflict	with Sewer on Fremont		Closed	04/11/2011	04/21/2011	04/26/2011	Potential	ly 🗌
From	Webcor Construction LP	Colin Azevedo	To: Turner Construction Compared	n Michelle Smith	Answered By	AECOM Techn	ical Service Eric	Zagol	
Co-Author	:								
REQ	UEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
M So existi as sh Pleas	uared has confirmed the invert ele ng manhole at station 0+29.5 Frei iown on U-3022. se adivse.	evation for the mont St. is EL 6.4			Eric Zagol 4/2 U-0128.1, con #601 to existin attached SK-L #601 to allow f indicated in Sk	5/2011: In refere struct temporary g SMH at STA J-0016 and SK-I for future 30" VC (-U-0016.	ence to RFI U-01 y 15" VCP from S 0+29.50 as show J-0017. Construc CP connection as	28 and SMH m on ct SMH	
					Relocate AWS package. Desi included in TG	S line in Howar gn forthcoming 04.2R.	d St., not include potentially to be	ed in	
					Following reloo VCP sewer pe	cation of the AW r contract docur	/SS line, constru ments.	ct 30"	



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U-0128.2	AWSS Conflic	t with Sewer on Fremont		Closed	07/07/2011	07/17/2011	03/27/2012	Potential	у 🗌
From: We	bcor Construction LP	Colin Azevedo	To: Turner Construction Compar	n Gary Krutsch	Answered By	:Turner Constru	uction Comr Jeff	Thiel	
Co-Author:									
REQUES	T:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Per the re AWSS lin Please ac	esponse to RFI#U-0128.1 a ne @ Howard and Fremont is dvise the status of this desig	design to relocate the s forthcoming. n.	Eric Zagol 7/20/2011 Design is being performed by SFDPW BOE and will be tracked and issued via a forthcoming ASI. Schedule will be discussed with SFDPW BOE on 7/22/11. An update will be provided in the RUP OAC on 7/26/11. Reproved the provided to Constructware on 3/21/12 b Zagol for design approval. A CR for this work issued in the near future.				in July itility ⇒ via ues, • Eric will be		
U-0129	Sewer Conflic	ts @ Second and Natoma		Closed	04/13/2011	04/25/2011	04/28/2011	Potentiall	v
From: We	bcor Construction LP	Colin Azevedo	To: Turner Construction Compar	n Michelle Smith	Answered By	AECOM Tech	nical Service Eric	Zagol	·
Co-Author:					-			Ū	
REQUES	T:		SUGGESTION:		ANSWER:	Accept Sug	aestion:		
<ul> <li>REQUEST:</li> <li>M Squared is unable to excavate/shore/install the 18" VCP from the existing manhole at Sta 0+45 to MH#301 at Sta 0+81 as shown on sheet U-3010.</li> <li>While excavating for the sewer installation M Squared encountered several unknown utilities which were unmarked and not shown on the contract drawings. Also, some of the known utilities are at different locations and elevations than indicated on the drawings. Due to the quantity and proximity of these utilities it is not possible excavate and shore between MH#301 and the existing MH at Sta 0+45.</li> <li>Additionally PGE have yet to relocate their gas and electric utilities out of the area of the proposed MH#301. See attached drawings illustrating M Squared's pothole findings.</li> <li>Please advise on how to proceed.</li> </ul>		Eric Zagol 4/27/2011: AECOM has reiven information provided and requests a mee and M Squared to review the data, review demolition and construction sequencing AECOM plans, and further understand w and shoring is not possible.				DM has reivewed uests a meeting data, review the equencing show nderstand why ex	the with W/O n in ccavation		
U-0129.1	Sewer Conflic		To: Turner Constitution C	Closed	05/02/2011	05/12/2011	06/03/2011	Potentially	у
Co-Author:		Colin Azevedo	I urner Construction Compar	n Gary Krutsch	Answered By	ALCOM Tech	nical Service Eric	∠agoi	
	<b>-</b> .		SUCCESTION			• • • •			
Per respo Squared a why the s manhole a	onse to RFI#U-0129 Webcor and AECOM met on 4/29/20 wever line between MH#301 at Sta 0+45 could not be ins	/Obayashi, M 11 and discussed and the existing talled with normal	SUGGESTION:		Eric Zagol 6, be provided v MH#301 and	Accept Sug /2/2011 Revised ia ASI 011 to ac STA 0+45.	Igestion:	ents will between	



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means an their inves	d methods. M Squared rem stigative pot hole trench on 5	hove the plates from 5/2/2011 for AECOM			Between MH #301 and MH #302:					
U-0130       Sewer Removal On First Street				<ol> <li>Continue to perform subsurface in submit location and elevation inform sewer laterals at the proposed conn sewer in accordance with Key Note construction.</li> <li>Verify via pre construction TV ins accordance with Specification Secti active sewer laterals are shown on been located in the field.</li> </ol>						
U-0130	Sewer Remov	al On First Street		Closed	04/15/2011	04/25/2011	04/21/2011	Potentia	lly	
From: Web	ocor Construction LP	Colin Azevedo	To: Turner Constru	uction Compan Michelle Smith	Answered By	:Turner Constru	uction Comr Kevi	n Chiu		
Co-Author:										
REQUES	т:		SUGGESTION:		ANSWER:	Accept Sug	gestion:			
During the 04/12/201 Webcor/O the existin 04/08/201 these draw	e weekly Utility Relocation O 1 Eric Zagol with AECOM ir bayashi that new drawings og sewer on First street had 1. To date Webcor/Obayas wings.	AC meeting on nformed for the removal of been issued on hi has not received			Kevin Chiu 4/ 4/18/2011 to \ No. U-006 wh	21/2011: See C W/O's documen ich contains the	R U-022 transmit t control email for requested inforn	ted on r ASI nation.		
Please ad	lvise the status of these drav	wings.								
U-0131	Minna St PG&	E Duct Bank Termination	Points	Closed	04/19/2011	04/29/2011	04/22/2011	Potentia	llv 🗌	
From: Web	ocor Construction LP	Colin Azevedo	To: Turner Constru	uction Compan Michelle Smith	Answered By	AECOM Tech	nical Service Eric	Zagol		
Co-Author:								-		
REQUES	T:		SUGGESTION:		ANSWER:	Accept Sug	gestion:			
PG&E has back 3' ou Please co duct bank and the fu performed	s confirmed Trinet is to term utside the east and west wal nfirm that the termination po as described will fulfill Trine ture completion of the duct by PG&E.	inate the PG&E duct ls of manhole 1319. bints of the PG&E et's scope of work bank will be			Eric Zagol 4/2 at EMH 1319 1319 East wa and left 3 feet encasement 1	21/201:1 Joint T and 1318 are a II; PG&E would short of the var 15 feet short of t	rench termination s follows: like the conduit c ult with concrete the vault.	points apped		



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Please note t wall of MH 13 under the 24" an issue with	erminating the duct ban 19 will leave the end of high pressure water ma future access for compl	k 3' outside the west the ducts directly ain. This may create lete the duct bank by			1319 West wa and left 6 feet water, whicher encasement 1	III; PG&E would short (or 1-foot ver is greater) o 5 feet short of t	like the conduit of clear of existing f the vault with co he vault.	capped 24-inch oncrete	
Please advise	e.				1318 North wa and left 3 feet encasement 1	all; PG&E would short of the vau 5 feet short of t	like the conduit It with concrete he vault.	capped	
					The new term limit of new cc 1318.	ination points sh nduit installatio	hall be considered as the on at EMH 1319 and		
U-0132	Minna St Sew	er Pressure Test		Closed	04/20/2011	04/30/2011	04/27/2011	Potentia	lly
From: Webco	r Construction LP	Colin Azevedo	To: Turner Construction Com	pan Gary Krutsch	Answered By	AECOM Techr	nical Service Eric	Zagol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
The SFDPW he will be req 18" and 24" V	inspector Jason Chin ha uesting a pressure test of (CP sewer main. The co	as advised Trinet that of the newly installed ontract specification ym of testing for the			Eric Zagol 4/ with the contra sections:	26/2011: Test s act documents.	ewers in accorda See specification	ince n	
sewer mains.	to do not specify any lo	orm of testing for the			034010 3.1 E				
Please advise required.	e if pressure testing of th	ne sewer main will be			CCSF DPW S Testing per 33	tandard Sectior 3110 1.2 A.	n 319 Low Pressu	ıre	
					333110 1.4 C				
					333110 3.7				
					333110 3.8 B				
					333110 3.9				
					Provide TJPA 72 hours of ac	Representative	and SFDPW ins prior to testing.	pector	



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U-0132.1	Sewer Main P	Pressure Test		Closed	05/07/2011	05/17/2011	05/11/2011	Potential	ly 🗌
From: Webcor Co	Instruction LP	Colin Azevedo	To: Turner Construction Compa	an Gary Krutsch	Answered By	AECOM Techr	nical Service Eric	Zagol	
Co-Author:									
REQUEST: Trinet has been a manufacture) tha Standard Specific iron or ductile iror pipe. The Nation recommend a low ASTM C 828. Se proposes using th 10psi hydrostatic specifications. Th pipe runs with no 203-204, 202-201 With regards to th lateral connectior the laterals if requ	advised by Mission C t the hydrostatic test cation Section 319.0 n pipe and is not rec all Institute of Clay F v pressure air test in test called for in the test called for in the test called for in the test called for in the test called sure at the service laterals ie: I 1. Please advise if th the three remaining p ns, please provide di uired to test the main	Clay (the VCP t described in the SF i2 is primarily for cast commended for clay Pipe and Mission Clay accordance with ASTM C 828. Trinet test in lieu of the e standard est will allow test on MH501-502, 206-207, his is acceptable. Dipe runs that have irection of how to plug n lines.	SUGGESTION:		ANSWER: =====UPD Kevin Chiu 5 testing newly main lines wit been suggest SFDPW, SFP http://newsite. all_MS2_Test http://www.mu http://veoliaes Waste-Manag Management/ Whether or no devices is still not specificall It is the contr on newly insta with their own protecting new Eric Zagol 5/ acceptable m- hydrostatic test	Accept Sug ATE 5/23/2011 5/23/2011 Below installed sewer h active lateral of ed within conver UC and AECOM cherneind.com/ Ball/ unipipe.com/che s-is.com/Service gement/Total-Se Chemical-Grout of the contractor up to them, as y required devic actor's responsia alled main lines, means and me w and existing ut	gestion: r are links to devi pipes, specificall connections that rsations between mical_grouting.r s/Environmental wer- ting s decide to utiliz these are sugge es to be used fo bility to perform laterals, and ma thods while still tilities. C828 air test is a wer pipe in lieu co	an f cess for y for have _Test_B .tml -and- e these stions, r testing. testing inholes	
U-0133	Minna St Join	t Trench Configuration and	d Alignment, Sta 2+24 to 1+62	Closed	04/20/2011	04/30/2011	04/26/2011	Potential	ly 🗌

From: Webcor Construction LP

Colin Azevedo

To: Turner Construction Compan Gary Krutsch

 04/20/2011
 04/30/2011
 04/26/2011
 Potentially

 Answered By: AECOM Technical Service Eric Zagol

#### Co-Author:

#### **REQUEST:**

During the installation of the AT&T ducts between Sta 2+24 and 1+62 the AT&T inspector, Juan, instructed Trinet to remove two bends from the duct bank. AECOM

#### SUGGESTION:

ANSWER: Accept Suggestion:

Eric Zagol 4/21/2011 Please provide the referenced "attached...revised AT&T duct routing" for review.



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w T rc a	vas contacted and ap Trinet proceeding. An outing required by th Please confirm the re acceptable.	oproved the layout ttached is the revis e inspector. evised joint trench a	in the field prior to ed AT&T duct alignment is							
11 0122	4	Minna St. Joint T	ranch Configuration and	Alignment Sto 2:24	Closed	04/26/2011	05/10/2011	05/02/2011	Potontia	
U-0133. Er	rom: Webcor Constr			Taignment, Sta 2+24		04/20/2011 Answered By		US/UZ/ZUTT	Potential	
Co-Aut	hor:				npan Gary Kiulsch	Allsweled by		ICAI SEIVICE ETIC 2	Layor	
R 2 T W T R P a	REQUEST: During the installation 2+24 and 1+62 the A Trinet to remove two vas contacted and ap Trinet proceeding. At outing required by the Please confirm the re acceptable.	n of the AT&T ducts T&T inspector, Jua bends from the du pproved the layout tached is the revise e inspector.	s between Sta in, instructed ct bank. AECOM in the field prior to ed AT&T duct alignment is	SUGGESTION:		ANSWER: Eric Zagol 5/2 acceptable as	Accept Sugg 2/2011 Alignme shown in the sk	gestion: nt of the AT&T dr etch provided.	ucts is	
U-0134		Water Depatmer	nt Tie In Conflict at Howa	rd and Beale	Closed	04/26/2011	05/06/2011	05/02/2011	Potential	ly 🗌
Fr	rom: Webcor Constr	uction LP	Colin Azevedo	To: Turner Construction Cor	npan Gary Krutsch	Answered By	AECOM Techn	ical Service Eric 2	Zagol	
Co-Aut	hor:									
R T u o e tt t P	REQUEST: The SF Water Depart inable to perform the of Howard and Beale existing sewer sludge the line and confirme- encased sewer sludge Please advise.	tment has determine water tie in at the because of a conf force main. M So d it is the existing 1 e force main.	ned they are south west corner lict with the uared has pothole 10" concrete	SUGGESTION:		ANSWER: Eric Zagol 4/2 the existing 10 perform the wa SFWD to dete line to be remo Plug the ends concrete per 0	Accept Sugg 29/2011: Cut an t-inch sludge line ater main conne rmine the exten oved. of the existing 1 2 41 00 3.6 A.	gestion: d remove a secti e to allow SFWD ction. Coordinat t of the existing s 0-inch sludge lin	on of to e with ludge e with	
						The existing sl demolished pe	udge line to the er TG04.6.	north will be		



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					The connectio sludge line (so the plug.	n of the new slu buth) per TG04.	udge line to the e 6, shall be made	xisting south of	
U-0135	4" Water Servi	ice @ 1st and Natoma		Closed	04/27/2011	05/07/2011	05/05/2011	Potential	ly 🗌
Fro	m: Webcor Construction LP	Colin Azevedo	To: Turner Construction Comp	oan Gary Krutsch	Answered By	AECOM Techr	nical Service Eric	Zagol	
Co-Autho	or:								
RE	QUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Wh wat an the cor	hile excavating for the 6" service co ter line on First Street at Sta2+25 M additional 4" ductile iron service the existing water main. This 4" line is ntract documents.	nnection to the new A Squared located at is connected to not shown in the			Eric Zagol 5/ 500 Howard S SFWD inspec 6" and 1" serv	2/2011 Retap th t. Coordinate s tor. Submit pip ices for review.	ne existing 4" ser ervice location w ing plan showing	vice to ith the 4",	
SF like	WD records show this to be a live s of or this to be tied into the new main	service and would in.			Kevin Chiu 5 a CR will be is	/4/2011 Pendin sued.	g approval by the	TJPA,	
The to r	ere is now no point of connection o receive this 4" service.	n the new water line							
Ple	ease advise.								
U-0135.1	4" Water Servi	ice at First and Natoma		Closed	05/09/2011	05/19/2011	05/10/2011	Potential	ly 🗌
Fro	m: Webcor Construction LP	Colin Azevedo	To: Turner Construction Comp	oan Gary Krutsch	Answered By	AECOM Techr	nical Service Eric	Zagol	
Co-Autho	or:								
RE	QUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
In r req	response to RFI #U-0135, see attac juested in RFI response.	ched piping plan, as			Eric Zagol 5/ 12" main, 12"	10/2011 With th GV, 6" service a	ne understanding and 1" service are	that the פ חוס	
Once approved M Squared will coordinate with SFWD to perform the work.					service and co	onnect to 12" m	ain per piping pla	n.	
**A all	In expedited response is required a other water work on Natoma Street	s this is holding up							


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lumber Su	ubject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
J-0136 Ex	kisting Water Bypass	@ Howard and Frem	ont	Closed	05/03/2011	05/13/2011	05/05/2011	Potential	lly
From: Webcor Construction	on LP Co	olin Azevedo	To: Turner Construction Compan	Gary Krutsch	Answered By:	AECOM Techr	nical Service Eric	Zagol	
Co-Author:									
REQUEST: While planning for the wa the Water Department dis bypass line that will conner (which is to be abandoner bypass is not shown on th has requested that the ex- plated so it can be cut an shut down for the tie in or Beale the night of 05/04/2 Please advise.	ater tie in at Howard ar iscovered that there is nect the existing water sy the plans. The Water of xisting bypass be exca and capped while they h n the new system at H 2011.	nd Beale an existing system stem. This department ivated and ave the line loward and	SUGGESTION:		<ul> <li>ANSWER:</li> <li>Eric Zagol 5/4 are incorrect.</li> <li>Based on a fie and AECOM o unforeseen exit connects the et (to remain) to f Street (to be a Howard Street inch main is He</li> <li>Once the new into service an existing bypass active Fremon abandoned Ho situation the S existing bypass not connected</li> <li>Coordinate wit define the limit existing bypass</li> <li>Excavate to ex specifications.</li> <li>Cutting and ca SFWD.</li> <li>Kevin Chiu 5/ a CR will be is:</li> </ul>	Accept Sug I/2011 RFI is n Id meeting with n 5/3/11, SFWI sting bypass p xisting 8-inch r he existing 8-in bandoned). Th will be abando oward is active 12-inch main ir d the existing n is and gate valve t main will be c ward Street ma FWD proposes is such that the the abandoned h SFWD to local s of excavation s. pose bypass. Restore per sp pping of the ex 4/2011 Pendin sued.	gestion: ot accruate and l W/O ,SFWD Ins D identified an ipe and gate valv nain in Fremont S nch main in Howard e existing 8-inch ned once the new howard Street is nain is abandone e from the existir onnected to the ain. To mitigate t to cut and cap the existing Fremont d main in Howard ate existing bypas required to cap the pecifications. isting bypass will g approval by the	pector e that Street rd main in v 12- s placed d, the g 8-inch he main is Street. ss and he per be by TJPA,	

U-0137

Closed

Colin Azevedo

To: Turner Construction Compan Gary Krutsch

 05/03/2011
 05/13/2011
 05/10/2011
 Potentially

 Answered By: AECOM Technical Servict Eric Zagol

**Co-Author:** 



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	REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
M Squared's sewer potholing on Beale (Sta 0+30) has indicated a conflict between an existing Verizon duct bank and MH# 701 on Howard Street. See attached drawing. The ductbank is approximately 18" wide x 18" deep. It is 2'4" to the top and it is slurry encased. Verizon underground locators have confirmed that this is live and serves Charles Schwabb building south of Howard on Beale Street. Please advise.					<ul> <li>Eric Zagol 5/10/2011 Unforeseen condition, Verizon utility not shown in existing utility survey.</li> <li>As suggested by Noel of (M Squared) during a site visit on 5/3/11 with W/O and AECOM, based on Noel's discussions with Mike Roybal (Verizon Field Engineer) and confirmed by AECOM based on follow up discussions with Mike Roybal (Verizon) and Pam Brown (Verizon), coordinate with Verizon and remove existing concrete encasement from existing duct to expose conduit in area of conflict. As directed in the field by Verizon, remove concrete encasement around duct from area in conflict to adjacent Verizon manhole. Move and support exposed Verizon conduit as required and directed by Verizon to construct manhole.</li> <li>Coordinate with Mike Roybal (Verizon) at (415) 716-6736 such that a Verizon representative is present during the Verizon duct concrete encasement removal, moving and support install.</li> <li>Restore Verizon duct to match existing concrete encasement following completion of sever manhole</li> </ul>					
U-0138	8	Temporary Teleco	om Pole Layout in Lot N	and N'	Closed	05/09/2011	05/19/2011	05/10/2011	Potentia	lly
I	From: Webcor Constr	uction LP	Joanne Filipas	To: Turner Construction	n Compan Gary Krutsch	Answered By:	AECOM Techr	ical Service Eric 2	Zagol	-
Co-Au	uthor:									
	REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Reference attached la package#TG0406-01	ayout and submittal 4:				Eric Zagol 5/* requested by 0	10/2011 The po CMGC along wit	le alignment chai h additional requ	nges ests	
	Due to the future use telecom poles must b indicates the propose been coordinated with Package#TG0406-01 approval of the pole le	of lot N and N' prime be relocated. The att d layout of these pol n AECOM. Submitta 4 has been submitte ocations.	e, the temporary cached sketch les which has l d for formal			generated for t	he redesign wit	inpanies nas requ sign. An ASI has h a CR forthcomi	ned a s been ng.	
	Please confirm reloca	ating the poles is acc	eptable.							



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U-0139	Existing Wate	r Line on Beale in Conflict	with New Sewer	Closed	05/09/2011	05/09/2011	05/10/2011	Potential	у 🗌
From: Webcor Co	Instruction LP	Colin Azevedo	To: Turner Construction Co	mpan Gary Krutsch	Answered By: AECOM Technical Service Eric Zagol				
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
<ul> <li>12" water line on Beale Dan Helminiak with SFWD informed Webcor/Obayashi and M Squared that the existing water line will remain active until the water tie in at First and Natoma is completed and the existing 8" is capped at First and Howard as shown on sheet U-3116.</li> <li>The water tie in and capping of the existing line on First Street is currently being delayed by separate issues and it is unclear when this work will be completed.</li> <li>Dan Helminiak suggested that the existing 8" water line running down Howard could be capped by the water department at one of the existing tees which would allow the decommissioning of the existing line on Beale.</li> </ul>					Eric Zagol 5/10/2011 Please clarify the ques Subject states "Existing Water Line on Beale Conflict with New Sewer". Per U-1124 Demol Construction Sequence order, Beale Street se commence after existing water main in Beale abandoned. Please clarify where and what th is. Also, please confirm the following: 1. Is the new 12" main along Howard Street b			tion(s). n ition and wer is to Street is e conflict etween	
department at on the decommission	e of the existing tees ning of the existing li	which would allow ine on Beale.			<ul><li>2. Is the new 12" main along Beale Street north of Howard Street active?</li><li>3. Is the new 12" main along Beale Street south of Mission Street active?</li></ul>			h of th of	
U-0139.1 From: Webcor Co	Cap (E) Water	on Howard @ Beale Colin Azevedo	To: Turner Construction Co	Closed mpan Gary Krutsch	05/16/2011 Answered By	05/26/2011 AECOM Techr	05/24/2011 hical Service Eric	Potential Zagol	у 🗌
Co-Aution.									
-New 12" water m Main is active. -New 12" water m is active. -New 12" water m is active.	nain along Howard b nain along Beale Stre nain along Beale Stre	etween First and eet North of Howard eet South of Mission	SUGGESTION:		Eric Zagol 5/ cap on the old Main St. with S Coordinate co St. main at the	Accept Sug 23/2011 Coordii Howard St. ma SFWD as shown nstruction of the intersection of	gestion: nate construction in at the intersed n on U-3119. e cap on the old First St. with SF	n of the ction of Howard WD as	
Per U-1124 Demo Beale Street sew main on Beale is - The old water lin is currently not ac First and Howard water department can just open the Howard Street. H 100% closed and shutdown on the	olition and Construct er is to commence a abandoned. he on Howard Street ctive because the val are currently shutdo t has expressed his o se valves and fill the e is also concerned t that the SFWD can old line. This means	tion Sequence order, fter existing water s and Beale Streets lives on the line at own. Dan from the concern that anyone e old line along that the valve is not not get a complete when M Squared			shown on U-3 Per discussion St. main has b of the cross) a connection by at First and Fr filled with cond The caps at M the closed line installation on	116 (latest rev p ns with SFWD in been capped at and at the Fremo SFWD. Addition emont streets a crete. Main, Beale, Fre gates at First S Beale St. to pro	per SK-U-0003 1 hspector, the old Main St, Beale S ont St. by-pass onally, the two lir re closed and ha mont in combina St. will allow sew pceed.	/28/11). Howard St. (south are gates ave been ation with er	



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removes the old water line on Beale Street in order to install the new sewer, it is possible that there will be a constant flow of water in the old line.
The suggestion from Dan is to cap the old water line on Howard Street so that When M Squared removes the old line on Beale Street there will be no possibility of water flow. A cap on the line at Howard would also confirm for definite that the old line on Howard and Beale Street is "abandoned".
Please provide direction for capping the existing water line on Howard so the sewer installation on Beale can proceed.

J-0140	Proposed Cha	nges by BLHP to S/L Cond	luit Run @ 2nd & Minna	Closed	05/11/2011	05/21/2011	05/20/2011	Potentially
From: Webco	r Construction LP	Colin Azevedo	To: Turner Construction Co	mpan Gary Krutsch	Answered B	y:AECOM Techi	nical Service Eric	Zagol
Co-Author:								
REQUEST: During a field AECOM and alignment of S/L pole @ S box be install connection p serve as the supply from 2 existing sider north side of field that the just west of t There is alread basement to locate the sp is attached d conduit run at the field. Plead	I meeting on 5/10/2011 w Robert Kawano, BLHP to the conduit run from 2nd stn 2+89, Robert Kawano led in the sidewalk downs oint to PG&E¿s manhole connection point for BLH 2nd St for the street light. walk basement, which is Minna, east of 2nd St., it splice box should be place he new fire hydrant locate ady a pocket constructed accommodate the fire hy lice box within this pocke epicting the proposed align the additional splice b ase confirm this is accept	with Eric Zagol, b discuss the St to the relocated asked that a splice stream from the . The box would P to PG&E¿s power Because of an located along the was agreed in the ced in the sidewalk ed @ Stn 0+93. in the sidewalk rdrant and Trinet will t structure. A sketch gnment of the located in the solution of the located along the	SUGGESTION:		ANSWER: Eric Zagol 5 and install a 6 lid per CCSF between the street light pu Street. Location; cor knock out spi sidewalk bas hydrant prior Maintain mini Specification	Accept Sug (19/2011 Per BL CCSF DPW prec DPW Standard PG&E supply po ullbox along Minr afirm that a sidew ace above the 12 ement adjacent to construction. imum bends in c 33 71 00.	gestion: HP's request, fu cast pullbox, cov Plans and Speci int and the reloc a Street east of valk pullbox will f 21-123 Second S to the newly insta onduit run per	irnish er, and ifications ated Second it in the St. alled fire



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Fron	n: Webcor Construction LP	Colin Azevedo	To: Turner Construction Comp	oan Gary Krutsch	Answered B	<b>y:</b> AECOM Techr	nical Service Eric 2	Zagol	
Co-Autho	r:								
REG	QUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
In th	he response to our RFI # U-0	0016, Trinet was directed			***5/26/11 UF	PDATE***			
to co Minr on 5 the a light	onnect the street lighting con na into PG&E MH #1319 on 5/10/1 with Eric Zagol and R alignment of the street lighting to on the west end of Minna, I contemplating a change in	adult of the west end of 2nd St. At a field meeting obert Kawano, to discuss ng run for the relocated Eric advised that PG&E			Supply point 1320. Coord Field Engined	IH &E			
this loca mide 2nd	contemplating a change in conduit run from MH 1319 to ted to the south of 1319 and dle of 2nd St. Please confirm St for the street lighting con	o MH 1320. MH #1320 is I further west towards the n the connection point on duit.			Eric Zagol 5 changes and after the resp has revised t 1319 and has new street lig	I Street I, PG&E D EMH ion for			
					In accordanc this RFI as th BLHP and PC new street lig TJPA Repres coordinating and PG&E. ( final connecti	e with U-3201 No e request to coo G&E through the jht circuit connect sentative are in the Street Light Service once the Service ion point will be p	ote 7, AECOM co ordinate connectio TJPA representa tions. AECOM a he process of vice Orders with E e Order is process provided.	nsiders ons with tive for nd the SLHP sed the	
 U-0142 Fron	Concrete	e Specifications for Sidewalk Re	eplacement @ 555 Mission	Closed	05/16/2011 Answered B	<b>05/26/2011</b> V:Turner Constru	05/18/2011	<b>Potentia</b>	lly
Co-Autho	r:								
RFC	OUEST		SUGGESTION			Accent Sug	destion:		
The sidewalk concrete @ 555 Mission (on Minna) is not the typical San Francisco sidewalk mix design. It is a colored concrete with what appears to be a sandblasted finish. Please provide the concrete specifications for repair and/or replacement of the sidewalk in this area.					Kevin Chiu 5, of a dark gray black based square feet o surface of the using a stiff b sandblasted aggregate to	/18/2011 Sidewa y, Hi-con @ 5 lbs concrete finish, v f silicon carbide e concrete shall l orush, and if nece to remove the co minimum depth	source to the sum of the second secon	tructed carbon per 100 ne nsed ng the	
U-0143	Demolitie	on of PG&E Duct Bank Alongsi	de (N) 18" Sewer Main on Minna	Closed	05/16/2011	05/26/2011	05/20/2011	Potentia	lly



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#### 30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
From:	Webcor Construction LP	Colin Azevedo	To: Turner Construction Com	pan Gary Krutsch	Answered By	AECOM Techr	ical Service Eric 2	Zagol	
Co-Author:									
REQU During Sewer vault ( Trinet PG&E the so 0+95 a the se sketch	<b>IEST:</b> a excavation and shoring for inst main along Minna St., between Stn 1+80 (demolished) and (N was unable to save the entire le duct bank (currently abandoned uth side of the sewer trench. Be and 1+25 (approx.) the duct bani wer trench and had to be demol Please review and advise.	allation of the 18" the (E) electrical N manhole # 201, ength of the existing d), which runs along tween stations Stn k had veered into ished - see attached	SUGGESTION:		ANSWER: Eric Zagol 5,/ indicates that protected in p 2 of the 6 exist to provide terr 1 and 2 along Mandrel existi 1+70 (where r contract) to co were to be pro Coordinate wi determine wh utilized for ter Furnish and ir replace those construction, will remain to	Accept Sug /19/2011 U-1107 the existing 6-4' lace. sting 4" conduits porary construct Minna Street. ing conduits eas new conduit cap pofirm that the e betected in place th PG&E as ST/ ich 2 of existing nporary construct hstall 2-4" condut that were remov Connect new co provide tempora	gestion: ' (rev 2 3/16/11) ' PG&E duct is to will be utilized by tion power to W/d t of STA 1+25 to s were to be insta xisting conduits th have no blockage A 0+95 is expose 4" conduits will be ction power. its concrete enca yed during sever onduits to existing ary construction p	be PG&E D Skids STA Illed per nat es. d to e sed to g that ower.	

U-0143.1 (E) PG&E Duct Bank from EMH #1320 to Demolished EMH #1355 06/14/2011 06/14/2011 Closed 06/24/2011 Potentially From: Webcor Construction LP Colin Azevedo To: Turner Construction Compan Gary Krutsch Answered By: AECOM Technical Service Eric Zagol Co-Author: SUGGESTION: REQUEST: ANSWER: Accept Suggestion:

After further investigation of the existing PG&E duct bank between EMH #1320 and demolished EMH # 1355 (@ Anchor & Hope), Trinet found that there is only one unobstructed conduit between the two manholes. The unobstructed conduit is the one that already had a pull rope in place. Trinet had demolished a section of this conduit during excavation for sewer MH # 201 because it was in conflict with the shoring. Trinet replaced the damaged section (approx. 8 LF) on Saturday 6/1, and reconnected the pull rope in the conduit run. A sketch of the conduit run, depicting the section replaced, is attached. Please review and advise if one 4" conduit will be adequate from EMH #1320 to the west end of

Eric Zagol 6/14/2011 PG&E plans to use the existing conduit package to provide temp power to Skids 1 and 2. Mike Balmy of PG&E was notified and has confirmed that only 1-4" unobstructed conduit is required between EMH1320 and the cap at demolished EMH1355 for future temp power service.



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Number	Subject	ıbject		Status	Date Created	Date Date Created Required	Date Answered	Cost Impact	<u>Proceed</u>
demolished E	EMH #1355.								
U-0144	PGE Vault co	nflict with 24" VCP on Beale		Closed	05/17/2011	05/27/2011	05/20/2011	Potential	ly
From: Webco	r Construction LP	Colin Azevedo	To: Turner Construction Con	mpan Gary Krutsch	Answered By	AECOM Techr	nical Service Eric	Zagol	
<b>CO-Autnor:</b> <b>REQUEST:</b> PG&E confirmed the location of the inside of the east wall of PG&E manhole 1702 at Howard and Beale Street. Allowing for a 12" thick wall, the vault will be in conflict with the proposed alignment of the future 24" VCP, even with moving the alignment 1' further east as directed in RFI U- 0124. The conflict could be avoided by moving the alignment another 6" further east. However this will cause a conflict between manhole #701 and the existing 14" AWSS. Additionally the Verizon duct bank conflict increases(RFI#U-0137). Please advise.			SUGGESTION:		ANSWER: Eric Zagol 5/ 5/18/11 with J. (MSquared) th MH outside wa unknown. Adjust location sewer alignme for the 24" VC the existing PC conflict with th Note, the exist of Beale Stree Confirm alignme will clear exist	Accept Sug 19/2011 As disc ason Dunne (W e exact location all and the exist performed as requ P installation (n G&E MH howev e existing 14" A ting AWSS line at STA 1+10. nent (2-10" VCH ing AWSS value	gestion: cussed in the field /O) and Noel Mch of the existing F ing AWSS is curr MH#702, MH#704 ired (~6" as meni ew and future) to er not in conflict i WSS line. will be abandone P and future 24" \ e at STA 0+70.	d on Carthy PG&E rently 4 and tioned) avoid in d North /CP)	
U-0144.1	PG&E Vault o	onflict with 24" VCP on Beale		Closed	06/30/2011	07/10/2011	07/01/2011	Potential	ly 🗌
From: Webco	r Construction LP	Jonathan Flaming	To: Turner Construction Co	mpan Gary Krutsch	Answered By	:Turner Constru	uction Comr Kevir	n Chiu	
Co-Author:									
REQUEST: In response to confirms the 2-10inch VCI AWSS Valve	to RFI U-0144, please n following: P and future 24inch VCF at Sta 0+70.	ote that M Squared	SUGGESTION:		ANSWER: Kevin Chiu 7 information.	Accept Sug /1/2011 RFI doo	gestion: es not request ad	ditional	



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U-0145	Sludge Main C	Conflicts with Existing Utilities		Closed	05/17/2011	05/27/2011	05/18/2011	Potentially	,
From: Webcor	Construction LP	Colin Azevedo	To: Turner Construction Com	pan Gary Krutsch	Answered By: AECOM Technical Service Eric Zagol				
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Please see at main on Missi existing utilitie possible to ins Street as show	tached pothole results for on Street. Due to the qu s, and utility vaults/man stall the new 12" sludge wn on the contract drawi	or the new sludge lantity and location of holes it will not be main on Mission ngs.			Eric Zagol 5/1 were marked by other mear	8/2011 Please i via the USA tick ns.	ndicate which ut and or those	ilities identified	
Please advise	).								
U-0145.1	Sludge Main C	Conflicts with existing utilities		Closed	05/18/2011	05/28/2011	06/07/2011	Potentially	/
From: Webcor	Construction LP	Colin Azevedo	To: Turner Construction Com	pan Gary Krutsch	Answered By	AECOM Techr	nical Service Eric	Zagol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
In response to Squared has r markings and contract drawi could not be in	D RFI# U-0145, see attac marked what utilities we what ones have been lo ings. There are also sev dentified.	ched with notes. M re located via USA ccated via the eral unknowns that			Eric Zagol 6, be provided v conflicts in Mi	/7/2011 Revised ia ASI 012 to ad ssion St.	l contract docum Idress sludge line	ents will e	
U-0146	Proposed Pav	ement Reconstruction Plan for	r Minna Street	Closed	05/17/2011	05/27/2011	05/23/2011	Potentially	/
From: Webcor	Construction LP	Colin Azevedo	To: Turner Construction Com	pan Gary Krutsch	Answered By	AECOM Techr	nical Service Eric	Zagol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Please find the pavement received to 2nd Streets	e attached sketch detail onstruction plan for Minr s. Please review and ad	ing Trinet's proposed na St., between 1St vise.			Eric Zagol 5, sketch provide accordance w	23/2011 AECO ed and has the f ith Contract req	M has reviewed following comme uirements:	the nts in	
					Confirm existi on Demolition prior to final s Provide FULL St. West of th Second Stree requirements [superseding SECTION 32 Construct Cur 87,169	ng utilities to be Plans have bee treet restoration street restoration e CDSM shoring t in accordance (DPW ORDER DPW ORDER 1 12 17) bs in accordance	demolished as sen demolished pro- on, curb to curb, g wall (~STA 2+2 with Contract NO. 178,940 76,707] per spector with DPW Struct	shown er Plans in Minna 25) to cification d. Plan	



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Construct Driveways in accordance with DPW Stnd. Plan 87.171

Construct Joints for Concrete Pavement Base in accordance with DPW Stnd. Plan 87,174 Per Contract specification SECTION 32 12 17, reconstruct curb returns at Second and Minna Per DPW ORDER NO. 178,940 (superseding DPW ORDER 176,707) Regulations for Excavating and Restoring Streets in San Francisco Section 9.4 B. Excavation affecting curb returns, stated as follows:

1. Any excavation (including trenchless technology) encroaching upon any part of an angular corner requires the installation or reconstruction of curb ramp(s) at the affected corner to current standards by the Permittee. Permittee's are encouraged to contact BSM Inspection Division to determine if curb ramps within a project are compliant or must be replaced at least 45 days prior to the commencement of any work.

2. Curb ramps must be constructed in accordance with current City standards (Drawing Nos. 55,017 Rev. 3; 55,017.1, 55,018 Rev.3; 55,018.1; 55,018.2; 55,018.3 "Exception to Standard Curb Ramps") (Appendix 5).

1-0146 1	Pronosed Pay	ement Reconstruction	Plan for Minna Street	Closed	05/27/2011	06/06/2011	05/27/2011	Potentially
From: Webc	or Construction LP	Colin Azevedo	To: Turner Construction Co	mpan Gary Krutsch	Answered B	J:AECOM Techr	nical Service Eric	Zagol
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:	
pavement re to 2nd Strev request that of centerline demarcation	ease find a sketch detain econstruction plan for Min ets, which incorporates Ba Trinet stop the new pave e of the CDSM shoring wa h line).	ng Trinet's revised ina St., between 1St alfour Beatty's ement section 5' north all (2' north of			Restore entire road base and Contract drav latest revisior	evision *** e width of Minna d ACWS curb to vings and DPW ( n 178,940) Secti	street using cor curb in accorda Order No. 176,7 ion 11.	ncrete Ince with 07 (and
					5/27/11 Resp	oonse:		



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#### 30100 - Transbay Transit Center Project

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Please provide BBIIs traffic control plan and construction logistics plan for Minna St. during pretrenching and CDSM shoring wall construction.

AECOM's specific questions are as follows:

1. What portion of Minna St. will be maintained for vehicular traffic during pre-trenching and CDSM wall construction? Please provide dimensions from face of north curb along Minna St.

2. Is a traffic barrier (k-rail or other) planned to be installed along Minna St. during pre-trenching and CDSM wall construction? Provide location, dimension from face of north cur along Minna St.

3. If a traffic barrier is planned, what is the schedule for the installation?

4. Once pre-trenching is complete will any of the pretrenching trench area be restored and used for vehicular traffic?

5. Once the CDSM shoring wall is constructed will the traffic barrier move south and the vehicular area be widened? If so by how much? Please provide a dimension from the face of north curb along Minna St.

This information is critical in order to provide a responses to this RFI as well as RFI U-147 and U-148 in an effort to determine how RUP will restore Minna St.; crowned or sloped, and how the Minna St. restoration conforms to the future Transit Center Minna St. design.

U-0146.2

Co-Author:

REQUEST:

Pavement Reconstruction Plan for Minna Rev 2

#### Closed

06/02/2011 06/12/2011 06/07/2011 Potentially

From: Webcor Construction LP

Colin Azevedo

To: Turner Construction Compan Gary Krutsch

Answered By: AECOM Technical Service Eric Zagol

ANSWER: Accept Suggestion:

Eric Zagol 6/7/2011 Street restoration detail is acceptable with the following corrections:

1. The southern extent (limit) of concrete base and

Please find attached a revised (Rev2) pavement Reconstruction Cross Section drawing for Minna St., which details Trinets understanding of the Engineer's latest response to RFI#U-0146.1 and RFI#U-0147. Please

#### SUGGESTION:



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Numb	er <u>Subj</u> ect			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
	confirm pavement reconstruction car attached detail	n proceed per the			ACWS betwee based on U-5 <sup>-</sup> required to do work in Minna as indicated ir	en STA 2+30 ar 101 Detail 6 and perform the De Street. Confor Detail 6.	nd First Street sha d the limit of exca rmolition and Nev m to final saw cu	all be vation v utilities t lines	
U-0147	7 Existing Top	-Of-Curb Grades @ Minna	Driveways for 575 Mission Building	Closed	05/27/2011	06/06/2011	06/01/2011	Potential	ly 🗌
I	From: Webcor Construction LP	Colin Azevedo	To: Turner Construction Compan	Gary Krutsch	Answered By	AECOM Techr	nical Service Eric	Zagol	
Co-Aı	uthor:								
	REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	The existing driveways entering the s building, are depressed between 2 ½ adjacent top-of-curb and sidewalk gr drawing depicting the driveways. Thi be a consequence of repeated overl which has resulted in a curb height i than the City standard of 6 inches. T the north side of Minna along the 57 ranges from 3 ½ to 4 ½ inches below	575 Mission St 2" to 3" below the "ades - see attached s condition seems to aying of Minna street, n many areas far less "he street grade along 5 Mission building w top-of-curb grade.			Eric Zagol 5/ existing curbs Minna St. in a DPW Order N Section 12 to curbs and driv and driveways a later date as	31/2011 Restor and driveways ccordance with o. 176,707 (and match existing f reways shown o s along Minna S s part of the Tran	e pavement alon along the north s Contract drawing I latest revision 1 flow line elevatior n U-1001. 6-inch t. will be reconstr nsit Center Project	g ide of is and 78,940) is at in curb ucted at ct.	
	Trinet has been directed in the field the Engineer in RFI #U-0146, to con roadway with finish grade at curb lind grade. This is consistent with City st The new roadway grades will result i exposed curb height at the driveway which is considerably deeper than th San Francisco standard plans for dri (plan # 87,171). It will also not be po street grade at the driveways withou drainage and causing ponding.	by Jason Chin, and by struct the new e 6" below top-of-curb andard plan # 87,169. In 3" to 3 ½" of s to 575 Mission, the 1" called for in the iveway construction possible to raise the t impeding road runoff							

Please review and advise.

Pavement Reconstruction Plan for West End of Minna Street - Stn 2+15 to 2nd St Closed

05/27/2011 06/06/2011 06/07/2011 Potentially

Answered By: AECOM Technical Service Eric Zagol



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Co-Au	uthor:									
	<b>REQUEST:</b> Please provide a pay typical cross section from Stn 2+15 to 2nd the street in this area that there is a grade between top-of-curb	vement reconstruct detail, for the west d St. Trinet had pl a from curb to cur difference of app on the north side	ction drawing, or st end of Minna St anned to reconstruct b. We find however, roximately 6 inches of the street and the	SUGGESTION:		ANSWER: Eric Zagol 6/	Accept Suge 7/2011 See resp	gestion: bonse to RFI 146.	2	
	south side, with the s The construction det #094) cannot be utili already has a cross s north.	south side being a ail approved in RI zed in this area, b slope of approx. 2	at the higher grade. FI #U-0146 (Trinet because the street 1% from south to							
U-0149	9	MH#701 Confli	cts with existing utilities		Closed	05/27/2011	06/06/2011	06/09/2011	Potential	ly 🗌
F	From: Webcor Const	ruction LP	Colin Azevedo	To: Turner Construction Co	mpan Gary Krutsch	Answered By	AECOM Techn	ical Service Eric Z	agol	
Co-Au	uthor:									
	REQUEST: The 14" AWSS line v constructed thru the Several bends were and these bends incl the presence of thes move MH#701 any fr To install the new 24 to MH wall), and in o we will have to pour diameter of the pipe Please advise on hor	west of MH#701 v roof of the existin used in the AWS luded lugs and tie e tie rods and fitti urther west. " VCP in a straigh rder to get by the the pipe wall and into the west wall w to proceed.	vas found to be g 3x5 sewer. S line construction rods. As a result of ngs we can now not nt line (perpendicular existing PGE MH 2" of the internal of MH 701.	SUGGESTION:		ANSWER: Eric Zagol 6/ accordance w joint) to allow f PG&E MH and attached SK-L Confirm in the VCP to be clea	Accept Sugg 8/2011 Deflect V ith ASTM C425 for 6" of deflectind d connect to MH J-0019. field that 6" def ar of the MH wa	gestion: //CP pipe joints in (max 1.8 degrees on to avoid the ex #701 as shown in lection will allow t II.	per isting the he 24"	
U-0149	9.1	MH#701 Confli	cts with existing utilities		Closed	06/30/2011	07/10/2011	07/01/2011	Potential	ly
F	From: Webcor Const	ruction LP	Jonathan Flaming	To: Turner Construction Co	mpan Gary Krutsch	Answered By	Turner Constru	ction Comr Kevin	Chiu	
Co-Au	uthor:									
	REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	In response to RFI U M Squared confirms allow the 24inch pipe	I-0149, please no that 6inch deflect to be clear of the	te the following: ion of the VCP will e manhole wall.			Kevin Chiu 7 information.	/1/2011 RFI doe	es not request add	litional	



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Eric Zagol 7/5/2011 In reference to RFI-151 and

151.1:

## 30100 - Transbay Transit Center Project

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U-0150	Proposed Correction	on to Field Condition R	eport 40C	Closed	05/31/2011	06/10/2011	06/01/2011	Potentia	lly
From: Webcor Constr	uction LP	Colin Azevedo	To: Turner Construction Comp	an Gary Krutsch	Answered By	AECOM Techr	ical Service Eric 2	Zagol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Please see the attached detail from Trinet Construction Inc for their proposed solution to mitigate the incorrect installation of CB203 identified in Field Condition Report 40C. Please advise if the proposed solution is acceptable.					Eric Zagol 6/ reviewed and a acceptable. C Trinet propose CR40C. Const such that it is a via removal of during installat the TJPA's Re	1/2011 The prop approved by SF onstruct catch to d construction of rruct the clean of accessible from the grate . Coo tion with DPW E presentative.	posed solution ha DPW BOE and is basin as shown in detail attached to out on the cast inc above for mainte ordinate inspectio 3CM inspector the	s been ; i the n trap mance n 'ough	
U-0151	Additional Sewer L	ateral Connection for	100 1st Street	Closed	06/02/2011	06/12/2011	06/08/2011	Potentia	lly 🗌
Co-Author:		Collin Azevedo	10. Turner Construction Comp	an Gary Krutsch	Answered by	AECOM Techr	lical Service Eric A	Lagoi	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Trinet has discovered 100 1st Street buildin new 24" sewer main located at sta. 7+09 a rear of the building. plans and there was existence of a lateral sidewalk and a 4" cas a 4" cast iron vent pig	d an additional sewer I og which was not conn - see attached sketch. and services a single t This lateral was not sh no vent in the sidewall . Trient potholed the la st iron lateral, a 4" cas be capped 2' below gra	ateral for the ected to the The lateral is oilet and the own on the < to indicate the iteral in the t iron trap and ade. Please			Eric Zagol 6/8 General Note are no active s sewer prior to Please provide lateral and the pipe for review	8/2011 In accor 12, contractor v sewer lateral con sewer demolition the elevation of location of exis	dance with U-300 was to verify that nnections to the e n. of the existing sev ting 4" cast iron v	0 there xisting ver vert	
confirm Trinet is to tie main on Minna. Also with existing cast iror are not up to current	e the lateral into the ne , please advise what i 1 trap and vent pipe as DPW standards.	ew 24" sewer s to be done sembly which			Renewal of thi and 100 First S forthcoming.	s lateral will be St. property owr	discussed with T her, final direction	JPA	
U-0151.1	Additional Sewer L	ateral Connection		Closed	06/29/2011	07/09/2011	07/05/2011	Potentia	lly
From: Webcor Constr	ruction LP	Jonathan Flaming	To: Turner Construction Comp	an Gary Krutsch	Answered By	AECOM Techr	ical Service Eric 2	<u>'agol</u>	
Co-Author: REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		

This is a follow-up to the request by the Engineer in his response to W/O RFI #U-0151 (Trinet RFI #097) for



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additional information relating to the 2nd sewer lateral connection for the 100 1st St building. Trinet also clarifies the issue of the existing 4" trap on the line, which was raised in the original RFI.

The sewer lateral is located @ Stn. 7+09 and the invert elevation of the 4" cast iron sewer lateral pipe at face-ofcurb is 14.6'. The elevation for the top of the new concrete encased ductbank @ Stn 7+09 is 13.85'. The sewer lateral was therefore not in conflict with the new joint trench utilities.

With regards to the existing 4" trap on the line, Trinet checked with the SF Plumbing department which adviced that a 4" cast iron trap was adequate for a 4" sewer lateral. The existing trap was therefore in compliance with the SF plumbing code. Trinet advised Jason Chin of this in the field and he agreed that the trap did not need to be replaced.

The 4" cast iron vent pipe for the trap did not extend to street level but was capped-off approximately 18" below grade. Per field discussions with Jason Chin, Trinet extended the trap vent piping to grade and installed a street vent frame & cover in the sidewalk. 1. Reconnect existing lateral to new 24" Minna St. sewer in accordance with SFDPW Standard Plan 87,196.

2. Extend fresh air inlet and air inlet cover to existing sidewalk grade.

U-0152	Alternate Man	hole Testing Method	Closed	06/02/2011 06/12/2011 06/07/2011 Potentially
From: Webo	cor Construction LP	Colin Azevedo	To: Turner Construction Compan Gary Krutsch	Answered By: AECOM Technical Service Eric Zagol
Co-Author:				
REQUEST	:		SUGGESTION:	ANSWER: Accept Suggestion:
Spec sectic all manhole M Squared testing mar (See attach This vacuum	on 03 40 10 3.1 E directs the shydraulically by exfiltrati proposes the use of the v shole sections instead of the ed) m method is in accordance	he contractor to test on testing. acuum method of he above method e with ASTM C1244.		Eric Zagol 6/7/2011 Vacuum method in accordance with ASTM C1244 is acceptable for testing of sewer manholes.

Please advise if this is acceptable.



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U-015	i3	Concrete Slab and	Rail Ties Conflict with Slue	dge Line on Howard	Closed	06/03/2011	06/13/2011	06/21/2011	Potential	ly 🗌
	From: Webcor Constru	uction LP	Colin Azevedo	To: Turner Construction Compan Ga	ry Krutsch	Answered By:	AECOM Techni	cal Service Eric Z	<u>'agol</u>	
Co-A	uthor:									
<b>REQUEST: SUGG</b> While potholing for the sludge line alignment along       Howard Street between Beale and Main at Sta 18+00 and         Sta 19+42 M Squared discovered the presence of wooden       rail ties and concrete slab (see attached photos).         These are possibly the same ties and slab that M Squared       encountered while installing the water line on TG04.3.         They are in direct conflict with the proposed location of the new sludge line along Howard Street.       Please advise.				SUGGESTION:	ANSWER:       Accept Suggestion:         Eric Zagol       6/21/2011         ****       6/21/11 Update ***         Based on follow up discussions with W/O and M further understanding of the extents of the concr slab and wooden rails ties found further West (H and Fremont streets TG04.3), remove and disport concrete and wooden rail ties as required to con 12" sludge line.         Eric Zagol       6/8/2011 Pothole at STA 18+00 to determine the extents (southern and northern) or concrete slab and wooden rail ties.         Submit potI data for review.				M2, and rete Howard юse of nstruct of the thole	
U-015	64 From: Webcor Constru	Electrical Service f	or Street Lights on Natoma Colin Azevedo	n <b>To:</b> Turner Construction Compan Ga	<b>Closed</b> ry Krutsch	06/08/2011 Answered By:	<b>06/18/2011</b> Webcor Constru	<b>09/01/2011</b> uction LP Chris	<b>Potential</b> Lotti	ly 🗌
Co-A	luthor:							_		
	REQUEST: Per Sheet U-1120 the lights on Natoma is to conduit has been expo trenching process on I As a result the existing power. There are no o reestablishing power t demo is complete.	electrical service fee be demolished, see osed through the inve First, confirmed dead g street lights on Nat details provided in the o these street lights	eding the street attached. This estigative I and remove. oma are without e plans for now that the	SUGGESTION: Eric Zagol 6/20/2011 Natoma Street power renewal to be addressed via AS forthcoming.	street light il 014	ANSWER: Change Reque Street Light Pc Force Account	Accept Sugg est No. U-043R1 wer Supply (AS issued 9/13/20	estion: -Renew Natom I No. 014) [3010 11.	a ).03] -	
	Please advise.									
U-015	55	AWSS Cast In Plac	e Concrete Testing		Closed	06/20/2011	06/30/2011	06/28/2011	Potential	ly 🗌
	From: Webcor Constru	uction LP	Jonathan Flaming	To: Turner Construction Compan Ga	ry Krutsch	Answered By:	Turner Construe	ction Comr Kevin	Chiu	

Co-Author:



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<b>REQUEST:</b> The AWSS Specification section 03300-2, Cast-In-Place Concrete 1.5 C (Quality Assurance) states that the concrete testing will be performed by an agency employed by the TJPA. However, 03300-10, 3.9 B (Field Quality Control) states that the concrete testing will be performed by the City Testing and Inspection Agency. Please advise who will be preforming the cast in pace concrete testing.	SUGGESTION:       ANSWER: Accept Suggestion:         Kevin Chiu       6/28/2011 The TJPA emp agency will provide concrete testing per 1.5C.         Michael Smith's (SFDPW) response, "testing performed or set funding in plant SFDPW's testing lab," dated and signed (see attached).				estion: PA employed tes sting per 03300- ponse, "TJPA can g in place for tes nd signed on 6/2	sting 2, n have ting by 7/11				
U-0156 Sink Hole under road base at MH#701 From: Webcor Construction LP Jonathan Flaming	<b>To:</b> Turner Construction Compan G	Closed ary Krutsch	06/21/2011 07/01/2011 06/22/2011 Potentially Answered By: AECOM Technical Service Eric Zagol							
REQUEST: While excavating for MH#701 M Squared discovered what appears to be a large void under the street base adjacent to the west wall of the MH#701. We estimate the void to be approximately 3' wide and 12' long. This may be a hazard as the street base may collapse at some point in the future. Please advise how you would like to proceed.	SUGGESTION:		ANSWER: Eric Zagol 6/2: not clear if direct Project work. AECOM sugges removed over th be evaluated. Once existing u backfill with a si pavement in act and Specification Kevin Chiu 6/2 with TJPA repre- under CR U-039	Accept Sugg 2/2011 Unfores thy related to the sts that the exis he area of the s tilities are deter and cement slu cordance with S ons. 2/2011 Coordir esentative. Rep	estion:	dition Jtilities e ditions ure, d Plans k hole aid				

Closed



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From: Webc	or Construction LP	Jonathan Flaming	To: Turner Construction Compan	Gary Krutsch	Answered By	AECOM Techr	nical Service Eric Z	agol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
This RFI is AECOM an Trinet's inat manholes 5 MH #502 is sewer on or Trinet has r effectively to	a follow-up to discussions i d the SFDPW Inspector an bility to perform a pressure 01 & 502 on 1st St. due to constructed around the exi- ne side (per SF Standard P no means of plugging the bi- o withstand a pressure test	in the field with ad Trinet, regarding test on sewer field conditions. isting 3x5 brick 'lan #87,184) and rick sewer			Eric Zagol 7/ sewer manhol to the restricti	8/2011 Confirm es #501 and #5 ve conditions.	ed. Pressure test 02 are not require	s for d due	
In the case similar to M been possit includes a t extending s existing 3x5 pipe stub is sealed with perform a p	of sewer MH #501, the orig H #502 and a pressure test ole. The revised design (see emporary 24" corrugated P outh from the manhole and b brick sewer. The inside of also corrugated, and there an inflatable pipe plug, as ressure test of the manhole	ginal design was t would not have e attached drawing) PVC pipe stub d connecting to the the temporary 24" ofore cannot be would be required to e structure.							
Please conf sewer mant	firm that a pressure test wil noles 501 & 502 on 1st St.	I not be required for							
U-0158	MH #301 Locat	lion		Closed	07/15/2011	07/25/2011	07/20/2011	Potentia	lly
From: Webc	or Construction LP	Colin Azevedo	To: Turner Construction Compan	Gary Krutsch	Answered By	AECOM Techr	nical Service Eric Z	agol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
During our s discovered is in fact sic	sewer work at 2nd and Nato that the Telecom Vault sho prificantly larger in the field	oma M Squared own on the drawings than is shown on			Eric Zagol 7/ acceptable.	20/2011 Adjusti	ments proposed a	re	
the plans. Ir	n order to be able to shore	for MH#301			Since the adju	stment pushes	the MH and cover	into	
construction M Squared has had to move the location of MH four (4) feet east along Natoma. As a result the jack and bore alignment is now a few inches south of what is shown on the plans				the crosswalk Standard MH cover that me	path of travel, in cover, provide a ets the following	n lieu of CCSF DP an ADA complaina g specifications:	rW nt		
Please confirm that these adjustments are acceptable.					1. MATERIAL with ASTM "S Castings" Des strength shall qualification. 2. FINISH- ST	- The cast iron tandard Specific signation A 48, 0 be considered t	shall be in accord cations for Gray C Class 30. The tins he primary test fo SH SHALL BE RA	ance ast Iron el r W, AS	



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						CAST, AND YI FRICTION OF CONDITIONS. 3. CASTINGS FLASHING, GI BLEMISHES. 4. Cover shall purposes. 5. ADA COMP HOLES NO GF DIRECTION O GREATER TH	ELD A MINIMU .6 OR BETTER - SHALL BE FF RIND MARKS, . incorporate a "p LIANCY- CAST REATER THAN F MOTION, NC AN ¼", IF THE	IM COEFFICIEN IN WET OR DF REE OF BLOW H AND OTHER SU pic-hole" for lifting TINGS SHALL HA 1/2" IN THE DOM VERTICAL RIS RISE IS GREAT	T FOR Y IOLES, IRFACE INANT E OF ER			
						<ul> <li>GREATER THAN %", IF THE RISE IS GREATER</li> <li>THAN %" THE RISE/RUN RATIO NEEDS TO BE 1;2</li> <li>AND THE MAXIMUM HEIGHT SHALL BE 1/2".</li> <li>6. Cover shall BE MADE TO FIT EXISTNG FRAMES</li> <li>OR be MACHINED to FIT EXITING FRAMES PER</li> <li>SFDPW STANDARD PLAN 87,190.</li> <li>7. Cover should be MADE of quality EQUAL TO OR</li> <li>GREATER then THE PRODUCTS MADE BY D&amp;L</li> <li>Foundry or Equal, see attached product data sheet.</li> </ul>						
U-0159	9	Unknown Concrete	Structure In Conflict w	ith Sludge Line on Mission	Closed	07/28/2011	08/07/2011	08/16/2011	Potential	ly 🗌		
F	From: Webcor Constru	uction LP	Colin Azevedo	To: Turner Construction Comp	oan Gary Krutsch	Answered By:	AECOM Techn	ical Service Eric 2	Zagol			
Co-Au	ithor:											
	REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:				
While potholing at the locations shown on the attached drawing M Squared discovered what appears to be a concrete wall under the parking strip. M Squared excavated both potholes 7' deep and at that depth the wall appeared to be continuing deeper. This concrete structure is in direct conflict with the proposed location of the new sludge main on Mission Street. The concrete curb on the north side of Mission St also extends 7' deep.					Eric Zagol 8/1 sections 00081 locations and f Mission Street	16/2011 In acco 10 and 020630, indings for all p associated with	ordance with spec please submit fo otholes performe the Sludge FM.	cification r review d along				
	See attached pothole	findings.										

Please advise on how you would like to proceed.



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U-0159.1	Conflict with S	ludge Line Conflict on Miss	ion	Closed	08/26/2011	09/05/2011	09/13/2011	Potential	ly 🗌
From: Webcor Con	struction LP	Jacob Giannandrea	To: Turner Construction Com	pan Gary Krutsch	Answered By	AECOM Techr	nical Service Eric	Zagol	
Co-Author:									
REQUEST: In response to RFI from remaining pot is pothole data for	REQUEST: S In response to RFI U-159. See attached pothole findings from remaining potholes on Mission street. Also included is pothole data for Sta 17+28 and Sta 17+50.			ANSWER:Accept Suggestion:In response to RFI U-159 and 159.1:For 12"Sludge FM on Mission at Beale S provided shows an existing unforeseen a 23" from the face of curb, the proposed is shown 1' from the curb. Construct 12" between face of curb and existing concr				St., information concrete wall 12" Sludge FM Sludge FM ete wall.	
U-0159.2	Unknown Con	crete Structure Sludge Line	Conflict	Closed	09/15/2011	09/15/2011	09/21/2011	Yes	
From: Webcor Con	struction LP	Colin Azevedo	<b>10:</b> Turner Construction Com	pan Steve Cunningham	Answered By	AECOM Techr	nical Service Eric	Zagol	
Co-Autnor:							_		
<b>REQUEST:</b> In response to RFI U-159.1 There is not adequate space between the face of curb and the unknown concrete structure in order for a welder to be able to weld the bells of each piece of pipe. Please advise on how to proceed.			SUGGESTION:		ANSWER: Eric Zagol 9/ concrete struc between STAs facilitate weldi identify section TJPA Represe Jeff Thiel 9/2 a CR will be is	Accept Sug 18/2011 Demoli ture south of pr 17+25 to 17+7 ng. Expose unlass to be demolis entative prior to 1/2011 Pending sued.	gestion: ish existing unkno oposed alignmen '5 as required at known structure a shed and coordin structure demolit g approval by the	own t oints to t joints, ate with ion. TJPA,	
U-0160 From: Webcor Con Co-Author: REQUEST: M Squared has por Street at Beale at t	Location of Ex struction LP tholed for the sludge the location shown of	isting Sludge Force Main or Colin Azevedo e line on Mission on the attached	Beale Street     To: Turner Construction Corr     SUGGESTION:	<b>Closed</b> pan Gary Krutsch	07/29/2011 Answered By ANSWER: Eric Zagol 8/ the vicinity ber	08/08/2011 AECOM Techr Accept Sug 2/2011 The exis nds down (~45+	08/02/2011 nical Service Eric : gestion: sting 10" sludge F	Potential Zagol M in	ly 🛄
frawing. They have FM that they are to (E) Force Main is r	e been unable to loo tie the new 12" slu not in the location sh	cate the existing 10" dge main into. The nown on the contract			existing 3'x5' s show the dept at around 5', n	ewer in Missior h of the 10" sluc orth of the 45 d	n St. Record drav dge FM where po legree vertical be	vings tholed nd.	



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drawings. See attached Please advis	d pothole findings. e on how you would like t	o proceed.			However, record drawings may not be reliable as was the case at Howard and Beale St. when excavating for the Beale St. water main connection where the 10" sludge FM was found at a location different than shown on the drawings.					
					Pothole for the existing 10" sludge FM at Beale St. STA 7+08 (10' north of current location) to ensure connection location is north of the vertical bend. Submit pothole data for review.					
U-0160.1	Location of FM	I on Beale Street		Closed	08/05/2011	08/05/2011	08/09/2011	Potential	ly 🗌	
From: Webco	or Construction LP	Jonathan Flaming	To: Turner Construction Compar	n Gary Krutsch	Answered By	AECOM Tech	nical Service Eric	Zagol		
Co-Author:										
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Per response potholing at M Squared p Squared was existing FM.	e to RFI U-0160 M Square Sta 7+08 on Beale Street. botholed 7' long x 4' wide a s still unable to determine	ed continued its and 8' deep and M the location of the			Eric Zagol & utility via the l FM at the loca	/9/2011 Unfores JSA process. F ation shown in tl	een mismarked e othole for existin he attached sketo	existing g sludge ch.		
See attached	d pothole findings.									
Please advis	e how M Squared should	proceed.								
U-0160.2	Location of FM	I on Beale Street		Closed	08/11/2011	08/21/2011	08/24/2011	Potential	ly 🗌	
From: Webco	or Construction LP	Jonathan Flaming	To: Turner Construction Compar	n Gary Krutsch	Answered By	AECOM Tech	nical Service Eric	Zagol		
Co-Author:										
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:			
M Squared p limits in the o response to within this po	ootholed the location of the drawing provided in the RFI U-0160.1. M Squared othole.	e existing FM to the I located the FM			Unforeseen or in the field var Refer to SK-U the revised ho accommodate	ondition, locatio ried from that sh J-0021 and SK-U prizontal and ver e connection to	n of existing Sluc nown on the draw J-0022 attached rtical alignment to Sludge FM as loc	lge FM ings. showing o cated in		
See attached	d pothole findings.				the field.					



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Plea	se direct M Squared how to proce	ed.							
U-0161	Unknown Con	crete Structure in Investiga	tive Trench	Closed	07/29/2011	08/08/2011	08/01/2011	Potential	ly 🗌
From	: Webcor Construction LP	Colin Azevedo	To: Turner Construction C	ompan Gary Krutsch	Answered By	AECOM Techr	nical Service Eric 2	Zagol	
Co-Author	r:								
REQ	UEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
REQUEST: M Squared discovered an obstruction in the Beale Street investigative trench on station 2+55 approximately 25' west of centerline. The obstruction appears to be a 2'-3' thick concrete wall starting directly below the street base and extending down to an unknown depth. M Squared began demoing the obstruction yesterday believing it was part of a concrete encased PG&E trench. It is now known it is not part of any duct package. Please advise on how you would like to proceed.					Eric Zagol 8/ similar structu investigation tu shown in Spec Protect in plac within zone of footprint are to Buttress/Shori	1/2011 Unknow re was found in rench at Beale s cification Sectio ce. Non utility s CDSM shoring b be removed by ing/Excavation	n non utility struct AECOM's subsu Street Station 2+4 n 020630 Append tructures (i.e. wal wall and Transit ( y (BSE) contractor.	eture. A rface 80.52 as dix A. Is) Center	
U-0162	Manhole #602	Orientation		Closed	08/03/2011	08/13/2011	08/09/2011	Potential	ly 🗌
From	: Webcor Construction LP	Jonathan Flaming	To: Turner Construction C	ompan Gary Krutsch	Answered By	AECOM Techr	nical Service Eric 2	Zagol	
Co-Author	r:								
REQ	UEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
The souti the r differ to ex dam insta shov inter	PG&E manhole at Station 2+55 is h than is shown on the drawings hew water main on Natoma Street rent alignment than shown on the cavate and shore for the new Mar aging the new water main M Squa all the manhole at a different alignr vn on the plans. M Squared will m nal manhole dimensions per DPW	a actually further As a result of this was installed in a drawings. In order nhole #602, without ared will have to ment than what is aintain the correct V standard drawings.			Eric Zagol 8/ avoid existing provided. Mai thickness, and Plans #87,182	9/2011 Constru water main as s intain internal m d steel reinforce 2.	ct sewer MH #60. shown in the sket anhole dimension ment per DPW S	2 to ch ns, wall tandard	
Plea	se confirm this is acceptable.								
U-0163	Utilities Demol	lition Plan		Closed	08/04/2011	08/14/2011	08/24/2011	Potential	ly 🗌

Jonathan Flaming

Closed

To: Turner Construction Compan Gary Krutsch

08/04/2011 08/24/2011 Potentially 08/14/2011 Answered By: AECOM Technical Service Eric Zagol



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Number	Subject			Status	Created	Required	Answered	Impact	Proceed
Co-Author:									
REQUEST	:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
The submit Demolition "Revise & F The review sequencing M Squared abandonme concerned. Please pro the utilities Once this h provide the	tal TG04.4 - UG1020-0241 Plan was returned to M Sc Resubmit". note was: Please provide g plan per specification 02 d is unable to acquire the ne ent schedules from the utili vide us with a schedule sho is to be abandoned by the has been provided M Squar sequencing plan per the s	00B01 Utilities juared marked demo and 41 00 Part 1.3A. ecessary utility ity companies owing when each of relevant agencies. red will be able to pecifications.			The intent of the submittal comment was to reference specification section 024100 1.3A requiring the contractor to submit a utilities demolition and construction sequencing plan showing commencement, order, sequence and completion dates for approval prior to commencing with the demolition of existing utilities. The schedule submitte didn't include sequencing of the new work.				
U-0164	Beale Investig	ative Trench Limits		Closed	08/09/2011	08/19/2011	08/10/2011	Potential	ly 🗌
From: Web	cor Construction LP	Jonathan Flaming	To: Turner Construction Cor	npan Gary Krutsch	Answered By	:Webcor Const	ruction LP Jona	than Flamin	g
Co-Author:									
REQUEST	:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Sheet U-10 on Beale S 41.1' from o east. By going 14 investigativ existing wa outside the	008 shows the limits of the treet (south of Mission St) center going west and 14.9 4.9' from center with the ea re trench M Squared will not ter line and the existing AV limits of the 14.9'.	investigative trench to be 56' in total. ' from center going astern portion of the ot encompass the VSS line as they are			Eric Zagol 8, accordance w 1008. Demol and 10-inch H 1125.	/9/2011 Excava rith contract doc ish, cap and plu IPW (AWSS) as	te investigative tre uments as shown g existing 12-incl s shown on Sheet	ench in o on U- o water o U-	
Please dire	ect M Squared how to proce	eed.							
11 04 05	<b>0</b>	to 02 Notomo			00/00/0044	00/40/0044	00/40/2014	Der der	
U-0165	Sewer Lateral	to 92 Natoma	<b>T</b> . <b>T</b> . <b>A A A</b>	Closed	08/09/2011	08/19/2011	08/10/2011	Potential	ly
From: Web	CONCONSTRUCTION LP	Jonathan Flaming	I urner Construction Cor	npan Gary Krutsch	Answered By	ALCOM Tech	nical Service Eric	∠agoi	
DEOUEST			SUCCESTION			Assent Cur			
KEQUESI While insta	: Iling the new sewer on Nat	oma Street from 2nd	SUGGESHUN:		Eric Zadol &	Accept Sug 10/2011 It is ac	gestion:	ct	
to the shori lateral to 92 installed in	ing wall M Squared noticed 2 Natoma is a new VCP lat the last 12 months.	I that the sewer eral and has been			existing latera the new 24-in lateral as sho	Il and provide a ch VCP main in wn on Plans.	permanent conne lieu of replacing	ection to the	



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	The contract drawings show M Squared sewer laterals on Natoma from 2nd to th	replacing all le shoring wall,			Notes Please provide	credit for cont	ract work not com	pleted.	
	however this lateral appears like it does replacing. Jason Chin (BCM) has been made awar	not require re of this issue.							
	Please confirm it is acceptable to leave and perform permanent connection to th main.	this lateral in place new 24'' VCP							
U-0166	Broken Culvert F	Pipe Encountered in Utility	Demolition Trench on Fremont St.	Closed	08/19/2011	08/29/2011	08/24/2011	Potential	ly 🗌
F	From: Webcor Construction LP	Colin Azevedo	To: Turner Construction Compan	Gary Krutsch	Answered By:	AECOM Techr	nical Service Eric Z	agol	
Co-Au	ithor:								
	REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	During trenching for demolition of the ele along the east side of Fremont St Trinet culvert pipe (@ Stn 5+05) from the exist the east side of the street at Stn 5+05. T pipe exposed is cracked in several place of an exposed joint is missing. Please ac will need the broken pipe section replace trench is backfilled.	ectrical ductbank crossed a 10" ing catch basin on The section of clay es and half the bell dvise if the owner ed before the			Replace dama SFPUC inspec	ged pipe sectic tor prior to tren	n per direction of ch backfill.		
U-0167	Culvert Run to N	1H#306		Closed	08/22/2011	09/01/2011	08/24/2011	Potential	ly 🗌
F	From: Webcor Construction LP	Jacob Giannandrea	To: Turner Construction Compan	Gary Krutsch	Answered By:	AECOM Techr	nical Service Eric Z	agol	
Co-Au	Ithor: M Squared Construction, Inc.	Aidan Foley							
	REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	See attached sketch.				Connect new 1 SMH#306.	0" SD culvert f	rom CB#306 to		
	Please confirm that it is acceptable to the run into the new MH#306 instead of runr the existing MH.	e the 10" culvert ning the culvert to			It is no longer r sewer to SMH# Abandon in pla	necessary to co #306 as shown lice existing 3'x	onnect existing 3'x on U-5001 Detail 5' sewer and exist	5' brick 6. ing	
	If this change is acceptable please advis to connect the existing 3'X5' sewer to MI existing sewer should be abandoned.	se if it is necessary H 306 or if the			sewer MH at S DPW Standard	TA ~2+40 in ac ls.	ccordance with CC	ĊŠF	



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Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Number         Status         Date Management         Date Created         Date Management         Concern Created           U-0168         TJPA Composite Utility Drawings         To: Turner Construction Compan Gary Krutsch         0.03/1/2011         0.01/0/2011         0.06/20111	lly								
Number       Status       Date Crost       Date Regular       Date Regular<									
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Sheet MA - 12, N Drawings for that composite utility TG04.4, TG04.6, composite utility	Note 4 refers to TJPA t area. M Squared cu drawings for trade pa , and TG04.1. M Squ drawings for the TG0	A Composite Utility urrently has ackages TG04.3, uared does not have 04.2 project.			Eric Zagol 9/1 utility compos has informatio response to a the TJPA for u	5/2011 TJPA d ite drawings for on and records p notice of intent use as reference	oes not have exis this area. SFDP\ provided by utilitie that can be provi e.	ting V BOE es in ded to	
Please provide the	hese drawings.			Jeff Thiel 10/3/2011 SFDPW BOE has provided the documents referenced in Eric Zagol's original response to this RFI.					
These documents have been uploaded to Constructware and can be found in the following File Director path: Sitework & Utilities\5 Program Coord\30 Utilities\Notice of Intent\									
					If the files are can also be fo link:	too large to op ound on the FTF	en in Constructwa site by following	are they this	
					ftp://ftp.tjpa.or	g/Document%2	20Control/110118	24/	
					Log In Instruc	tions			
					1. Enter case Password (Pu	-sensitive Userr IblicFTP1)	name (public) and		
					2. Select View	v∖Open FTP Site	e in Windows Exp	olorer	
					3. Drag file(s)	to your desktop	)		
Note: Please do not open files while logged in the FTP									
U-0169	CB#703 Locat	tion		Closed	09/01/2011	09/01/2011	09/07/2011	Potentia	lly 🗌
From: Webcor Co	onstruction LP	Colin Azevedo	To: Turner Construction Compar	Steve Cunningham	Answered By	AECOM Tech	nical Service Eric	Zagol	

REQUEST:

SUGGESTION:

ANSWER: Accept Suggestion:



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See attached pho CB#703 and unkr They appear to be investigative trend Please confirm th the same location removed.	to showing conflict v own underground co the same structure ches on Beale Street at it is acceptable to as the existing CB v	with location of new oncrete structures. as discovered in the t. o put the new CB in which has been			It is acceptable to construct CB#703 in the same location as existing. Please coordinate the depth of the sewer culvert with proposed PG&E Phase II work as shown on U-2037. Submit proposed culvert profile with elevations of the existing PG&E electrical ducts as pot holed that are to be capped in Phase I (U-1125) and connected to in Phase II (U-2037).						
U-0169.1 From: Webcor Co	CB#703 Locat	ion Colin Azevedo	To: Turner Construction Com	Closed	11/15/2011 Answered By	11/25/2011	11/23/2011	Potentia	ily 🗌		
Co-Author:		Conn Azevedo	Turner Construction Com	pan Steve Cunningham	Answered by		nical Service Enc 2	agoi			
<ul> <li>Co-Author:</li> <li>REQUEST: <ul> <li>CB#703 was constructed in the location of the existing catch basin.</li> <li>See attached profile with culvert elevations. Culvert was installed deeper as several utilities were lower than shown on the drawings.</li> <li>Per M Squared is response to comments made in the RFI #U-0181, one of the duct banks shown on the drawings could not be located and was not as shown on the drawings. The alignment of the other duct bank is also different than what is shown on the drawings. (See attached) The depth of this duct bank at the point where M Squared capped it (3' south of the unknown concrete structure) was 6' 8" to the top. Its location/alignment beyond that point are unknown.</li> </ul> </li> </ul>			SUGGESTION:		ANSWER: Please provid culvert at CB# the RFI169.1, culvert with re	Accept Sug e the invert elev 703. Based on the 10" culvert versed slope is	gestion: vation of construct the sketch provide was reversed slop not acceptable.	ed 10" ed in ne. A			
U-0170 From: Webcor Co	Duct bank Der	mo on Natoma Colin Azevedo	To: Turner Construction Com	<b>Closed</b> pan Steve Cunningham	09/15/2011 Answered By	09/25/2011 /:		Potentia	lly		

#### Co-Author:

#### REQUEST:

M Squared has determined in the field that the duct bank highlighted which is to be demolished, is in fact

#### SUGGESTION:

Eric Zagol 9/18/2011 U-1110 indicates removal of existing PG&E duct to facilitate construction of the 8-

ANSWER: Accept Suggestion:



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underneath the the plans M Sq gutter and pose	e curb and gutter. In order to demolish it per juared will have to remove the curb and sibly a portion of sidewalk. See attached.	inch Water and Sewer MH #301 . If existing duct as highlighted is not in conflict with new utilities then the existing duct may be abandoned in place.					
Please confirm removed and re	whether you would like the duct bank epour the curb and gutter after demo, or bank in place and repair the portion of curb	Cap existing duct at RUP/BSE demarcation line per ASI 15.					
and gutter dam	laged while locating the duct bank.	Provide photos showing location of duct, duct, and curb and gutter damaged at the area indicated for repair for review.					
		Jeff Thiel 9/19/2011 Pending approval by the TJPA, a CR will be issued.					
	Duct Bank Domo on Natoma	Closed	00/21/2011	10/01/2011	10/05/2011	Potontia	
From: Webcor (	Construction I P Colin Azevedo	Closed	Answered By		nical Service Eric	Zagol	
Co-Author:			,			Zagoi	
REQUEST:		SUGGESTION:	ANSWER:	Accept Sug	aestion:		
In response to Approx 20' of c remained unda Please advise and gutter.	RFI #U-0170, see attached photos. urb and gutter to be repaired. Sidewalk imaged and does not require repair. if M Squared is to repair this portion of curb		Eric Zagol 9/ please provide supports the s found beneath Contract plans curb and gutte been protecte gutter to be pr course of worh 15 40 and cor	27/2011 Per res e data (i.e. phott statement that th n the existing cu s show the existi er. The curb and d in place during otected in place k please restore stract documents	ponse to RFI 17 ps, survey and et e existing duct b rb and gutter. ing duct south of d gutter should ha g excavation. If o was damage du to match existing s.	0, c.) that ank was the ave curb and tring the g per 01	

From: Webcor Construction LP

U-0170.2

Duct bank Demo on Natoma

Closed

11/18/2011 11/28/2011 12/01/2011

To: Turner Construction Compan Steve Cunningham

Answered By: Turner Construction Comp Jeff Thiel

Potentially

Colin Azevedo



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Co-Au	thor:											
l f t	REQUEST: M Squard has review to locate any photos the curb and gutter	ed their photo log showing the duck	s and were unbale tbank running under occed with providing	SUGGESTION:		ANSWER: Accept Suggestion:						
ć	a credit per CR U-02	7.				with providing	credit per CR L	J-050.	loceed			
						***11/22/11 O	RIGINAL RESP	ONSE***				
						RFI does not p closed. M Squ credit per CR	bose a question lared shall proce U-027.	and will be consi eed with providing	dered J a			
U-0171		AWSS Ductile	ron Pipe		Closed	09/15/2011	09/25/2011	09/19/2011	Potentia	lly		
F	rom: Webcor Const	ruction LP	Colin Azevedo	To: Turner Construction Con	npan Steve Cunningham	Answered By	:Turner Constru	uction Comr Jeff 7	hiel			
Co-Au	thor:											
1	REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:				
l	Please confirm that i ductile iron pipe for th	t is acceptable to ne AWSS system	use non-gauged			Jeff Thiel 9/1 response, "Us will be respon- ends, AWSS f tests," dated a	9/2011 Michael e at contractor's sible for pipe be ittings, etc. and ind signed on 9.	Smith's (SFDPW s discretion. Cont ing inserted into   passing hydrosta /19/11 (see attack	/) ractor pipe bell atic ned).			
U-0172		City Furnished	Gate Valves		Closed	09/20/2011	09/30/2011	10/05/2011	Potentia	lly 🗍		
F	rom: Webcor Const	ruction LP	Colin Azevedo	To: Turner Construction Con	npan Steve Cunningham	Answered By	:Turner Constru	uction Comr Jeff 7	hiel	-		
Co-Au	thor:											
1	REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:				
	Specifications direct distance between the valves laying length (	the contractor to p pipe flanges that plus ½" not includi	provide a clear consists of the gate ng the thickness of			Jeff Thiel 10/ response,	/4/2011 Michael	Smith's (SFDPW	')			
t I a	the gaskets to be ins In order to do this M all City furnished gat	talled. Squared will need e valves.	the dimensions of			"Please refer t laying lengths dimensions w	o attached mar of gate valves. ere confirmed o	nufacturer's drawi These laying leno n 10/04/2011."	ngs for gth			



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Please provi for this proje	de cut sheets for all valv ct.	es provided by SFWD			dated and signed on 10/04/11 (see attached).					
U-0173	Valve control	panel pick-up		Closed	09/24/2011	10/04/2011	10/05/2011	Potential	y	
From: Webco	or Construction LP	Colin Azevedo	To: Turner Construction Comp	an Steve Cunningham	Answered By	Turner Constru	uction Comr Jeff T	hiel		
Co-Author:										
REQUEST: M Squared's supplier, Control Systems West, have been coordinating with SFWD regarding which of the City's panels will be used for the TG04.2 project. Tom Reid with SFWD has designated 3 panels to be used for this project. These panels are to be picked up at SFWD, transported to Control Systems West for testing, programming etc and then returned to the job for use at 3 of the valve locations. As the panels have been selected M Squared would like to begin the process of getting the panels to their supplier so they can begin the work. Please provide the name and contact information for the person with whom M Squared can coordinate the pick up of the 3 units.			SUGGESTION:		ANSWER:       Accept Suggestion:         Jeff Thiel       9/26/2011 Contact Bill Gunn at (415) To 0688 or WGunn@sfwater.org         Per Section 01 10 40, Coordination, Article 1.6 C RFI does not fall under the acceptable uses for a as it is not being used for an interpretation of the Contract Documents.         RFIs used for questions regarding coordination w rejected in the future.			i) 706 C, this an RFI ne will be		
U-0174	AWSS Anten	na location at Location 1		Closed	09/27/2011	10/07/2011	10/11/2011	Potential	y	
From: Webco	or Construction LP	Colin Azevedo	To: Turner Construction Comp	an Steve Cunningham	Answered By	Turner Constru	uction Comr Jeff T	hiel		
Co-Author:										
<b>REQUEST:</b> On drawing MA-20 regarding location 1 the antenna is shown to be mounted on a street light. However, on drawing MA-29 the same antenna is shown to be mounted on the enclosure. Early conversations between Dick Borders (Control Systems West) and Kenny Chin (DPW) confirm that mounting the antenna on the enclosure is the preferred option.			SUGGESTION:       ANSWER:       Accept Suggestion:         Jeff Thiel       10/11/2011 Michael Smith's response:       Image: State of the state o			gestion: el Smith's (SFDP) ed on the controlle regard any refere on the (E) light po punting of antenna performed by the	W) nce to st as i on to			



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Please cont	firm the antenna mounting	location.			controller cabi Dated and sig				
U-0175	Sludge line la	yout		Closed	09/27/2011	10/07/2011	11/08/2011	Potentia	lly
From: Webc	cor Construction LP	Colin Azevedo	To: Turner Construction Compa	Answered By	AECOM Techi	nical Service Eric	Zagol		
Co-Author:									
<b>REQUEST:</b> The 12" sludge line cannot be installed along Mission Street as shown on the revised drawings due to the elevation and location of existing utilities and other unknown subsurface obstacles. Please see attached pothole information. Please advise how you would like to proceed.			SUGGESTION:	ANSWER: Accept Suggestion: Eric Zagol 11/7/2011 Modifications to the 12" Sludge FM are currently being evaluated under ASI-018. Revised plans and specifications forthcoming following redesign and execution of ASI-018.					
U-0176	AWSS Conflic	t @ Location 7		Closed	09/28/2011	09/28/2011		Potentia	llv 🗌
From: Webc	cor Construction LP	Colin Azevedo	To: Turner Construction Compa	an Steve Cunningham	Answered By	:			
Co-Author:				-					
<b>REQUEST:</b> Due to the location of existing utilities it will not be possible to install the AWSS valve vault at the location shown on sheet MA 18 of the AWSS drawings. See attached pothole drawings from 09/26/11 and 09/27/11. Please advise how you would like to proceed.			SUGGESTION: Follow up responce recieved 10 ****10/19/11 UPDATE**** Michael Smith's (SFDPW) response "Meeting with M Squared, SFW 10/18/11. Contractor to have are First/Howard Streets to 100 feet Street marked for utilities (USA) site to determine clear area over hole for valve vault." Dated 10/19/11 (see attached)	ANSWER:	Accept Sug	gestion:			
			initial response received 10-17-2	2011:					



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			SFDPW to meet in the field with cor inspector to determine method to pro provide response with direction at the	tractor and SFWD oceed. Will is time.					
			NOTE: RB issued email 10-18-2017 meeting.						
U-0176.1	AWSS Conflic	ets at Location #7		Closed	11/18/2011	11/28/2011	11/21/2011	Potential	lly
From: Webcor C	Construction LP	Colin Azevedo	To: Turner Construction Compan S	Steve Cunningham	Answered By	Webcor Const	ruction LP Dani	el Foudy	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Per the response to RFI #U-0176 a field meeting was attended by Michael Smith and M Squared. M Squared received direction to perform additional potholes further west of First St on Howard St. Please see attached pothole findings. Please advise how you would like to proceed.				Michael Smith "Please refer SFDPW Resp This conflict b utilities at the design locatio incorrect infor being furnishe valve vault is relocated wes shall pothole west of Potho No. 1A to veri is adequate cl and motorized valve vault the 1A. Please no engineer of th can request th 4-inch steel pi Street."	a's (SFDPW) rest to commnets on ponse: etween the exis original n are unforesee mation ed to the City. The being t of the original 10-feet le No. 1B and 10 fy that there learance for inst d gate e approximate lo tify the e potholing sche the majorutilities pe running para	sponse, a attached sheet. ting AWSS line a in field conditions hus the motorized location. The cor 0-feet east of Pol alling a horizonta ocation of Pothole edule in order tha toattempt to iden illel on Howard see attached)	and a due to d gate atractor thole al offset e No. at we tify the		

U-0176.2

AWSS Conflicts @ Location 7

#### Closed

01/18/2012 01/28/2012 02/16/2012 Potentially

Answered By: Turner Construction Comr Jeff Thiel

From: Webcor Construction LP

Colin Azevedo

To: Turner Construction Compan Steve Cunningham

Co-Author:



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REQUEST:		SUGGESTION:		ANSWER: Accept Suggestion:							
Per response to RFI#U-0176.1 M additional potholing at Location 7.	Squared performed			Jeff Thiel 2/15/2012 Michael Smith's (SFDPW) Response.							
Please see the attached pothole f	indings.			"Furnish and install horizontal offset as shown on the							
Please advise how you would like	to proceed.			concrete valve vault with minimum 6-inches clearance							
Note: The 4" Unknown Utility was abandoned PG&E gas main. On line and confirmed it to be abando	confirmed to be an 1/10/12 PG&E drilled the oned.			to the existing electrical duct bank running on the North side of Howard Street. Adjust nipple lengths as required between elbows and to connect into the ends of the existing cast iron pipes. Concrete valve vault and placement of motorized gate valve shall otherwise be shown on drawings MA-22 and MA-25.							
				Work for insta gate as show the scope per as shown on t	llation of new co on Drawing MA ding installatior he attached dra	oncrete valve vau -18 shall be delet a of the new valve wing."	lt and ed from vault				
				Signed and da	ated 2/13/12.						
				Christina Your a CR will be is	ng 2/15/2012 F sued.	Pending TJPA ap	proval,				
U-0177 Ductbank	Demo on Fremont St		Closed	10/04/2011	10/14/2011	10/10/2011	Potential	ly 🗌			
From: Webcor Construction LP Co-Author:	Colin Azevedo	<b>To:</b> Turner Construction Compan Stev	e Cunningham	Answered By	AECOM Techr	nical Service Eric 2	Zagol				
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:					
See attached sketch. The duct bank shown on Fremont is in fact underneath the curb and sidewalk on Fremont St	Street to be demolished gutter and portion of the			Eric Zagol 10 confirm the du 6-6" duct from	)/6/2011 Coordi ict indicated in t PG&E's EMH	nate with PG&E t he M2 sketch is F 7605.	o PG&E's				
In order for M Squared to remove require us to close the west sidew and remove the sidewalk, remove replace the sidewalk. Currently the east sidewalk is clos activity.	this duct bank it will valk on Fremont St, demo the ductbank and then sed also due to BBI			Demolish and STA ~2+40 (a south of shorii segment withi STA 2+40 (ST abandoned in	remove the 6-6 t the gutter) and ng wall. The int n Natoma Stree A 2+40 to STA place.	" duct segment b d the demarcation ent is to remove t t. The segment s 1+85) can be	etween h line the south of				



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	Please advise how you would like to p	proceed.			Provide cap a in the plans.	t STA 2+40 inst	ead of STA 1+85	shown	
					duct at STA 1- relocations.	+85 as part of P	G&E's Phase II	0-0	
U-0178	3 Sludge line la	yout on Mission between Be	ale and Main	Closed	10/04/2011	10/04/2011	11/08/2011	Potential	ly 🗌
F	From: Webcor Construction LP	Colin Azevedo	To: Turner Construction Co	mpan Steve Cunningham	Answered By	AECOM Techr	nical Service Eric Z	∠agol	
Co-Αι	uthor:								
	<b>REQUEST:</b> Continued potholing on Mission Stree Main has revealed additional grade co proposed alignment for the new 12" s Some of the utilities are not as shown marked in the field by USAN. See atta Please advise if M Sqaured is to cont Mission Street as it may be necessary entire length of the trench between Be locate and map all conflicts.	t between Beale and onflicts on the teel sludge line. on the drawings nor ached sketches. inue potholing on y to excavate the eale and Main to	SUGGESTION:		ANSWER: Eric Zagol 11 FM are curren Revised plans redesign and o	Accept Sug 1/7/2011 Modific tly being evalua and specificati execution of AS	gestion: ations to the 12" ted under ASI-01 ons forthcoming fo I-018.	Sludge 8. ollowing	
U-0179	9 AWSS Main li	ne conflicts at Location 7		Closed	10/05/2011	10/15/2011	11/21/2011	Potential	ly
F	From: Webcor Construction LP	Colin Azevedo	To: Turner Construction Co	mpan Steve Cunningham	Answered By	:Turner Constru	iction Comr Jeff T	hiel	
Co-Αι	uthor:								
	REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Some of the existing utilities are not shown on the drawings and have been installed on top of the existing 12" AWSS line. Due to the proximity and volume of these utilities it is not possible to even hand excavate down to the existing AWSS line to verify its location and depth. Please see attached pothole information. Please adivse.			the following response recei provide direction in this matt It shall be the contractor's re Contract Documents to perfor in order to identify the existin actual excavation. Background utility informatic	UPDATED RESPONSE (11/18/11) Michael Smith's (SFDPW) response, Refer to comments on attached sheet. These comments supercede response provided on 10/17/11. SFDPW Response: This conflict between the existing AWSS line and					



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			TJPA/consultatns and shall be ver contacting Underground Service A conflicts oted during potholing sha utility owner(s) for relocation/remo perform the contract work. NOTE: email from Rick Buellesba requests an answer to the questio	utilities are unforeseen field conditions due to incorrect information being furnished to the City. There are no design alternates at this location due to the necessity of removing the existing cross that was capped on the First Street side outlet to accommodate the utility relocation work for the proposed transit center. The engineer will contact the owners of the utilities in conflict with the AWSS facility for resolution." Dated 11/18/11 (see attached)									
U-0180	Conflict with C	в 305		Closed	10/10/2011	10/20/2011	10/17/2011	Potential	ly 🗌				
Fi	rom: Webcor Construction LP	Colin Azevedo	To: Turner Construction Compan	Steve Cunningham	Answered By:	Webcor Constr	uction LP Richa	ard Buellesb	ach				
Co-Aut	thor:												
F	REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:						
<b>REQUEST:</b> While excavating to install CB305 M Squared encountered a large unknown concrete structure. The concrete structure is in conflict with CB305. CB305 cannot be installed as planned. See attached photo. Tsu-Ling with AECOM and Alberto with SFDPW reviewed the situation in the field and arread the solution was to							As determined during a site visit on 10/7/11 with M Squared, AECOM, SFDPW and W/O; the existing unforeseen condition, a large concrete structure, is in conflict with CB 305 and the installation of a new catch basin would require an extensive amount of unforeseen demotion.						
S - ir	alvage the existing CB where CB 305 This work was performed on 10/7/201 aspection of SEDPW	was to be installed. 1 under the			In lieu of instal existing, modif	ling a new catcl y the existing ca	h basin barrel to atch basin as foll	replace ows:					
Please confirm.					<ol> <li>Clean interio</li> <li>Apply 1/2" tl walls and botto</li> <li>Install cast i</li> <li>Install pipe o</li> <li>shown in Plans</li> </ol>	or walls and bot nink uniform lay om. ron trap. culvert and conr s.	tom. er of mortar on ir nect to MH#305 a	nterior					
					New culvert siz at catch basin. is less than 3 f	ze and invert sh Use ductile irc eet.	all match existing on pipe if depth of	g culvert f cover					
U-0181	Unknown subs	surface structure on Beale		Closed	10/13/2011	10/23/2011	10/24/2011	Potential	lv 🗔				

From: Webcor Construction LP

Colin Azevedo

To: Turner Construction Compan Steve Cunningham

Answered By: AECOM Technical Service Eric Zagol



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Co-Aut	hor:									
R	EQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
D S a S V e C C S S t C S S	buring M Squared's of the structure. bandoned vault that ee attached photo. 1 Squared ceased w lectric duct banks 6° ontinue with the rem heet U-1125 of the of p remove the subsur lease advise.	demo work on the W ey uncovered an un This structure apper has been filled with ork on the removal south of this structure toval of this abando contract drawings th face structure.	/est side of Beale known ears to be an a concrete. Please of the six 6" ure. If they are to ned duct bank per ey will be forced			Eric Zagol 10/24/2011 Please provide a plan showing the location and extent of unknown structure identified. Also indicate what portions of the existing PG&E electrical duct has been demolished to date.				
U-0181. <sup>-</sup>	1	Unknown subsur	face structure at 301 Missi	on	Closed	11/18/2011	11/28/2011	11/23/2011	Potentia	lly
Fr	om: Webcor Constr	uction LP	Colin Azevedo	To: Turner Construction	Compan Steve Cunningham	Answered By	AECOM Tech	nical Service Eric 2	Zagol	
Co-Aut	hor:									
<b>REQUEST:</b> See attached information as requested in response to RFI #U-0181.			SUGGESTION:		ANSWER: Subsurface st shown are acc drawing as rec	Accept Sug ructure to rema ceptable. Pleas quired by the co	gestion: in. Cap locations ie mark on as-bui intract documents	as t		
U-0182		AWSS Conflict w	ith AT&T Vault at Location	2	Closed	10/24/2011	11/03/2011	11/21/2011	Potentia	lly 🗌
Fr	om: Webcor/Obaya	shi Joint Venture	Jason Dunne	To: Turner Construction	Compan Steve Cunningham	Answered By	Webcor Const	ruction LP Danie	el Foudy	
Co-Aut	hor:									
R	EQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
O	On the north east sid	e of the Mission Str	eet and 2nd			Michael Smith	's (SFDPW) res	sponse,		
Intersection the existing AWSS line is running through the floor of the AT&T vault. The removal of the existing 12" pipe and installation of the new 16" AWSS pipe will require the floor vault to be demolished and re-poured. Please provide a detail for this work or a new alignment for the AWSS line so as to avoid this vault.				"SFDPW Res	ponse:					
				This conflict b utility vault are incorrect inform	etween the exis a unforeseen fie mation being fu	ting AWSS line a Id conditions due rnished to the City	nd to ⁄.			
u						The contracto alignment as s existing conflic	r shall pothole t shown on the at ct with the AT&	he alternate pipe tached sketch du Γ vault over/withir	e to the 1 the	



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					present alignment of the AWSS pipe. Notify engineer of pothole results for the proposed alternate pipe alignment." Signed and Dated 11/18/11 (see attached)						
U-0182.1	AWSS Conflict	with AT&T Vault at Location	2	Open	03/28/2012	04/07/2012		Potential	ly		
From: We	ebcor Construction LP	Colin Azevedo	To: Turner Construction Compa	an Steve Cunningham	Answered By:						
CO-Autilior.	-										
The skete provide a potholing	ch provided in response to RF adequate information to perforn g. Please provide additional in	I U-0182 does not m additional formation.	SUGGESTION:		ANSWER:	Accept Sug	gestion:				
U-0183	AWSS Valve Va	ault Conflict at Location 1		Closed	10/24/2011	11/03/2011		Potential	ly 🗌		
From: We	ebcor Construction LP	Colin Azevedo	To: Turner Construction Compa	an Steve Cunningham	Answered By:						
Co-Author:											
REQUES	ST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:				
The prop as per the	osed valve vault at location 1 e plans due to utility conflicts of See attached pathola info	cannot be installed encountered during	Jeff Thiel 10/27/2011 Michael S response,	Smith's (SFDPW)							
potholing. See attached pothole into. These utilities are not shown on the contract drawings. Please advise.		"Per your preliminary excavation schedule a site visit with SFDPV At site visit, we will provide direc installation."	results, please V and SFWD at site. tion for vault								
			Signed and Dated 10/26/11 (see	e attached)							
			Kevin Chiu 10/27/2011 When fi provided via on site meeting per please submit a follow up RFI to provided in the meeting.	inal direction is the RFI response, confirm direction							



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the installation of the battery vault by locating the

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U-0183.1	AWSS Valve	Vault Conflict at Location 1		Closed	11/16/2011	11/26/2011	11/18/2011	Potential	ly 🗌
From: Webcor	Construction LP	Colin Azevedo	To: Turner Construction Comp	an Steve Cunningham	Answered By	Webcor Constr	uction LP Danie	el Foudy	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Per the respo SFDPW and \$	nse to RFI#U-0183 a si SFWD on 11/2/2011 to	ite visit was held with review the conflicts at			Michael Smith	's (SFDPW) res	ponse,		
location 1. Please provide direction based on this meeting.				"Refer to com comments sup for RFI U-0183	ments on attach bercede comme 3.	ed sheets. Thes nts provided on 1	e 10/26/11		
					SFDPW Resp	onse:			
					Motorized gate excavation at information, va request owner install vault du shown in Poth provide revise vault need to b vault interior d providing a mi utilities and the walls.	e valve vault: Pe Pothole No. 2 ar erify 2 1/2-inch s should there no e to the existing ole No. 3 drawir d drawing(s) for be moved west. imensions need nimum of 3-inch e vault construct	the preliminary and the provided teel for ownershi to be adequate sp electrical duct b ag. Notify engine AWSS fittings sh Notify engineer to be reduced a es clearance wit ted with 12-inch to	p and bace to ank er to hould should fter h other thick	
					Controller cab Pothole No. 7 controller cabi Notify MCI tha controller foun inches clearar conduit as req foundation to a should the cor	inet: Per the pre and the provide net concrete fou t either their cor dation installed nee or that they uired. Modify be accommodate a nduit not be relow	liminary excavati d information, ins indation at this sinduit can remain over the conduit can relocate their ttom of controlle clearance of 4-ir cated.	on at stall the te. with the with 4- r nches	
					Battery vault: Pothole No.6 a	Per the prelimination and the provided	ary excavation at I information, fiel	d verify	


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					northern edge Signed and D	e of the vault 2-fe ated 11/15/11 (s	eet towards the c see attached)	urb."	
U-0183.2	AWSS Valve	Vault Location 1		Closed	12/02/2011	12/12/2011	12/15/2011	Potential	lly 🗌
From: Webc	or Construction LP	Colin Azevedo	To: Turner Construction Com	pan Steve Cunningham	Answered By	Turner Constru	uction Comr Jeff	Thiel	
Co-Author: REQUEST: Please see t RFI#U-0183	the attached letter regard	ling the response to	SUGGESTION:		ANSWER: Michael Smith	Accept Sug	gestion:		
Please provi	ide direction.				SFDPW Resp Motorized Ga excavation at information, v request owne vault footprint valve vault sti duct bank sho West along M minimum 12-i electrical duct Notify enginee AWSS fittings West. Notify enginee to be reduced clearance with with 12-inch th	te Valve Vault: F Pothole No. 2 a erify 2 ½ inch st r to relocate the with 12-inches II be in conflict w with 12-inches II be in conflict w when in Pothole No. 2 a with 12-inches II be in conflict w when in Pothole No. 2 a with 12-inches II be in conflict w when in Pothole No. State in conflict w w w w w w w w w w w w w w w w w w w	Per the preliminal nd the provided eel for ownership line outside of th clearance. Shoul vith the existing e lo. 3, move vault il valve vault has e with the existing ised drawing(s) for ault need to be m interior dimension a minimum of 3 in nd the vault cons	y e valve d the lectrical location a or oved s need nches	
					Turner will ve	rify 2 1/2 steel fo	or ownership.		



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U-0183.3	Valve Vault Co	onflict at Location 1		Closed	01/23/2012	02/02/2012	02/08/2012	Potentiall	у 🗌
From: Webcor Cons	truction LP	Colin Azevedo	To: Turner Construction Compan	Steve Cunningham	Answered By	Turner Constru	ction Comr Jeff	Thiel	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Per the response to Construction perforr location on Market S Please see attached Please advise on ho proceed with the var	RFI #U-0183.2, N med further pothol Street. d findings of these bw you would like ult construction/in:	I Squared ing on the valve vault potholes. M Squared to stallation.			Jeff Thiel 2/6/ Michael Smith "-Install concr pothole No. 3 necessary du -Resubmit co suite location other utilities. line and 4" to Signed and da	2012 I's (SFDPW) res ete valve vault in A. Relocate 1 1/ ring vault placen ncrete vault drav and 9" thick wal Provide minimu ductbank." ated 02/06/12 (s	sponse, n locations as sh 4" copper pipe a nent. vings with dimen ls for walls adjac m 6" clearance t ee attached)	ow on s isions to cent to o water	
U-0184	AWSS Connee	ction Point at Location 2.		Closed	10/24/2011	11/03/2011	11/01/2011	Potentiall	у 🗌
From: Webcor Cons	truction LP	Colin Azevedo	To: Turner Construction Compan	Steve Cunningham	Answered By	Turner Constru	ction Comr Jeff	Thiel	
Co-Author:									
REQUEST: The existing AWSS Street north of Miss drawing MA-13. Please advise.	line at the connection is a 10" pipe n	tion point on 2nd ot a 12" as shown on	SUGGESTION:		ANSWER: Jeff Thiel 10/2 response, "The line on S a 10" CI line. in the contrac line." Signed and D	Accept Sug 27/2011 Michael Second Street Ne Please update of t package indica ated 10/26/11 (s	gestion: Smith's (SFDPV orth of Mission S Irawings. Drawin ites the line as a see attached)	V) treet is g MA-21 10"	
U-0184.1	AWSS Connec	ction Point at Location #2		Closed	12/02/2011	12/12/2011	12/14/2011	Potentiall	у 🗌
From: Webcor Cons	truction LP	Colin Azevedo	To: Turner Construction Compan	Steve Cunningham	Answered By	Turner Constru	ction Comr Jeff	Thiel	
Co-Author:									
REQUEST: Please see the attac RFI#U-0184. Please provide direc	ched letter regardi	ng the response to	SUGGESTION:		ANSWER: Per Michael S is preparing re stationing info revised drawin U-0184 and p be issued in the revisions.	Accept Sug mith's response evised AWSS dr immation provide ngs will address rovide clear dire he near future pr	gestion: to RFI U-0188 s awings to includ d by AECOM. Th the issue raised ction. The drawin ackaged with oth	SFDPW e hese in RFI ngs will ler	



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					via a revised A included on th 19.	WSS drawing. e stationed drav	This change was wings provided ur	ider ASI	
U-0185	Existing Latera	al to CB701		Closed	10/28/2011	11/07/2011	11/01/2011	Potential	У
From: Webc	or Construction LP	Colin Azevedo	To: Turner Construction Comp	an Steve Cunningham	Answered By	Webcor Const	ruction LP Colin	Azevedo	
Co-Author:									
<b>REQUEST:</b> Sheet U-3024 shows and existing storm drain lateral connecting the back side of the existing catch basin which was replaced by CB #701. The details for CB #701, C/U-3033, do not show this existing lateral to be connected to CB #701. CB #701 has been installed per plan and the existing lateral was abandoned in place. It has been discovered that the abandon lateral in servicing an active catch basin in Lot N. See attached sketch.			SUGGESTION:		ANSWER: Eric Zagol 10 catch basin ba right of way ar shall manage sewer in acco Coordinate wit	Accept Sug 0/31/2011 Latera arrels from prope e prohibited . C runoff in parcel rdance with CCS	gestion: al connections to erty outside of the Owner/occupant o and discharge to SF regulations. epresentative and	CCSF e public f Parcel main	
catch basin	in Lot N. See attached ske	etch.			occupant of P	arcel.			
Please advis	se.								
U-0186	AWSS Conflict	with Elec. Duct Banks & V	/ault @ Location 2	Closed	11/01/2011 Answered By	11/01/2011	11/18/2011	Potential	у 🗌
Co-Author:					Answered by			er rouuy	
<b>REQUEST:</b> Due to the p electrical co the existing tee as show attached por side of the to The concret connection p allow enoug joint and cas Please advis	proximity of the electrical vancrete duct banks it is not 18" AWSS line and recommon on drawings MA-3 and N thole drawing. The restrain ee are cast into the base of e duct bank on top of the A point combined with the electron h room for the plumber to st the new one. se.	ault and the possible to remove hect to the existing IA-13. Please see ing lugs on the east of the electrical vault. AWSS line at the ectrical vault will not burn out the old lead	SUGGESTION:		ANSWER: Michael Smith "SFDPW Resp This conflict b utility vault/due due to incorrec City. There are no of the necessity at this location maintain the p Mission Street the utility in co facility for reso Signed and Da	Accept Sug 's (SFDPW) res- conse: etween the exis ct bank are unfo ct information be design alternate of removing the in order to inst roposed 16" pip to The engineer inflict with the A plution."	gestion: sponse, ting AWSS line a preseen field conc eing furnished to s at this location of existing 18"x10" r all the 16" fittings be size upgrade of will contact the of WSS see attached)	nd litions the due to educer to n wner of	



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U-0187	Conflicts with	n Controller Cabinet Found	lation & Battery Enclosure at Location 1	Closed	11/18/2011	11/28/2011	11/21/2011	Potentially
From: Webcor Cons	struction LP	Colin Azevedo	To: Turner Construction Compan St	eve Cunningham	Answered B	y:Webcor Const	ruction LP Dar	iel Foudy
Co-Author:								
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:	
Please confirm that cabinet enclosure f the existing 10" and sketch of pothole # Please confirm that battery enclosure o attached sketch of dig around the exis the enclosure per th	t M Squared it to in oundation (3'W x d 8" steel lines sho 6. t M Squared is to i in top of the utilitie pothole #7. It will I ting utilities to inst he specifications.	Install the control 3'L x 2'D) on top of bown on the attached install the fiberglass ses shown on the be necessary to hand tall drain rock beneath			Michael Smit "Refer to SFI RFI U-0183.( Signed and E RFI U-0183.1 "SFDPW Res Motorized ga excavation at information, v request owner install vault d shown in Pott to provide rev vault need to vault	h's (SFDPW) response p DPW response p 1)." Dated 11/18/11 (s Response inclusponse: te valve vault: Pe Pothole No. 2 a verify 2 1/2-inch is r should there n ue to the existing hole No. 3 drawi vised drawing(s) be moved west. dimensions need providing a min h other utilities a hick walls. Dinet: Per the provide inter concrete for CI that either the roller foundation clearance or that conduit as requindation to accord undation to accord undation to accord undation to accord undation to accord undation to accord undation to accord the provide n of the battery worthern edge of	sponse, rovided on 11/11 see attached) ided below- er the preliminar nd the provided steel for owners! of be adequates g electrical duct ng. Notify engineer for AWSS fitting Notify engineer d to be imum of 3-inche ind the vault con eliminary excava ed information, ir undation at this eir conduit can re installed over that they can ired. Modify botth nmodate a clear ot be relocated. ary excavation a d information, fie vault by the vault 2-feet the	6/11 to y hip and space to bank eer s should sourced tion at hstall the emain e conduit om of ance of at eld verify towards

U-0187.1

Colin Azevedo

12/02/2011 12/12/2011 12/15/2011 Potentially

From: Webcor Construction LP

To: Turner Construction Compan Steve Cunningham

Answered By: Turner Construction Comr Jeff Thiel

Co-Author:

#### REQUEST:

Please see the attached letter regarding the response to RFI#U-0187.

SUGGESTION:

Conflicts with Controller Cabinet Foundation and Battery Enclousure at Location # Closed

ANSWER: Accept Suggestion: Michael Smith's (SFDPW) response,

"Please see attached for revised response - U-187.1.

Please provide direction.



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#### SFDPW Response:

Controller Cabinet: Per the preliminary excavation at Pothole No. 7 and the provided information, install the controller cabinet and the concrete foundation at this site instead of the battery vault assembly that was shown here originally in the Contract Documents.

Notify MCI that either their conduit can remain with the controller foundation installed over the conduit or MCI has the option to relocate their conduits away from the concrete foundation footprint. Should MCI not want to relocate, reduce thickness of concrete foundation over MCI conduit to provide a minimum of 4-inches clearance between the conduit outside diameter and the bottom of the foundation.

Battery Vault: Per the preliminary excavation at Pothole No. 6 and the provided information, install the battery vault at this site instead of the controller cabinet that was shown here originally in the Contract Documents.

Field verify (pothole) 2-feet from face of existing curb to determine if the Northern edge of the battery vault can be installed approximately 2-feet from curb instead of 5-feet from curb in order to provide clearance with 8-inch steel line. Notify engineer of pothole results prior to installation."

Signed and Dated 12/14/11 (see attached)

Turner will notify MCI.

U-0187.2	Conflicts with Controlle	r Cabinet and Battery	@ Location 1	Closed	01/23/2012	02/02/2012	03/21/2012	Potentially
From: Webcor Constru	uction LP Co	lin Azevedo	To: Turner Construction Compan Ste	ve Cunningham	Answered By:	Turner Construc	ction Comr Steve	Cunningham
Co-Author:								
REQUEST: In response to RFI #	U-0187.1 (Revised Respor	nse to RFI#	SUGGESTION:		ANSWER: Jeff Thiel 3/16	Accept Sugg 5/2012 Michael S	estion: Smith's (SFDPW)	



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U-018	37 ON 12/14/11)				response,				
- See this lo - Durin	attached pothole data fro cation. ng initial discussions with	om additional potholing at n MCI/Verizon M Squared			"Please see a utility.	ttached wording	for letter to owne	r of	
Inform They intent their u Pleas	requested a letter from the . Please confirm if it is ac utility. e provide direction on the	install units on their utility. The owner highlighting the cceptable to install a unit on a locations of the battery			Locate North from face of c in "brick" area	4" emain			
vault a currer	and controller cabinet tak nt utilities in place.	king into consideration all			Signed and Da 3/15/12 (Batte				
					The attached sent to Pam B	letter addressed Brown on 3/14/12	I to MCI/Verizon w 2.	as	
 U-0188	Control	Stations on AWSS Drawings		Closed	11/18/2011	11/28/2011	11/21/2011	Potentia	lly 🗌
From:	Webcor Construction LP	Colin Azevedo	To: Turner Construction Compan Ste	eve Cunningham	Answered By	Turner Constru	iction Comr Kevin	Chiu	
Co-Author:									
REQU At pre Missic contin the TC The C station Drawi will all condit	JEST: esent M Squared has set on Street. These stations juation of survey points u G04.6-Sludge Line Projec Sity designed AWSS Draw ns on them. Please provi ngs with the project statio low M Squared to accura tions and as built the nec	up control points along s were based on a ised on Mission Street for ct. wings do not have these ide an updated set of AWSS ons marked on them so it itely document field wessary information.	SUGGESTION:		ANSWER: Michael Smith "SFDPW is cu with stationing We anticipate stamped/signe 2011." Signed and Di Jeff Thiel 3/22 stationed draw and resolved I were provided	Accept Sug I's (SFDPW) resurrently preparin g information as the final set of ed DWGS prior ated 11/18/11 (s 2/2012: RFI U-18 vings. It was reso by ASI 19 when L	gestion: sponse, g revised AWSS I provided by AECC to the end of Nove see attached) 38 included a requ ponded to on 11/1 the stationed drav	DWGS DM. ember est for 8/11 vings	
U-0189	First &	Howard Utility Conflicts, Location	7 Complete Pothole Data	Open	12/02/2011	12/12/2011		Potentia	lly

From: Webcor Construction LP

Colin Azevedo

to **To:** Turner Construction Compan Steve Cunningham

. . . . .

Answered By:

**Co-Author:** 



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REQUEST:		SUGGESTION:	ANSWER:	Accept Sug	gestion:		
While pothole: previous RFI ( Location 7 exp the contract d locations indic	s #2 & #3 have been addressed in a (RFI#U-0176), other potholes carried out in posed various utilities that are not shown on ocuments. Other utilities were not in the rated on the contract documents.						
See attached at location 7.	pothole data from potholes #1 through #11						
Please clarify place or reloca	if the utilities will be removed, protected in ated.						
U-0190	Fire Hydrant Location on Mission @ First	Closed	01/10/2012	01/20/2012	01/19/2012	Potential	ly 🗌
From: Webcor	Construction LP Colin Azevedo	To: Turner Construction Compan Steve Cunningham	Answered By	Turner Constru	uction Comr Jeff	Thiel	
Co-Author:							
REQUEST:		SUGGESTION:	ANSWER:	Accept Sug	gestion:		
While potholin	ng for the new Hydrant and associated piping		Michael Smith	i's (SFDPW) res	sponse,		
Squared's cre Portico Restau This basemen	ws damaged the roof of the basement to urant, 88 First Street (see attached photos). It structure was not noted on the plans and is		-Repair of side attached direc for repair met	ewalk at pothole tions from Willia hod.	location: Refer t am Liang- SFPD	o N/EST	
a differing site	condition.		-New Hydrant	lateral shall be	located in the (E)	)	
The roof of the Please provide	e basement will now need to be repaired. e direction and repair details for this work.		hydrant alignn areaway. Refe details, SEDP	nent. (E) Hydrar er to AWSS star W will provide re	nt is located in an ndard drawings fo evised drawing fo	or or (N)	
It is not possib	ble to locate the fire hydrant in this area due		lateral prior to	construction.	g		
a column pour attached).	red into the structure of the basement (see		Signed and D	ated 01/18/12			
Please advise	on how you would like to proceed.						
			Response for (SFDPW).	Concrete Repai	ir per William Lia	ng	
			Chip out conc damage (E) re If (E) rebars a saw-cutting pr the cut rebars Splicing syste	rete inside of sa abars. re found to have ocess, chip out for installation of m at both ends;	w-cut area; do n e been cut during enough concrete of Lenton Quick-\ splice new rebai	ot the around Wedge rs with	



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RE500-SD.

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
		size to match (E). If (E) rebars an proceed to Step 3. Install keyway around perimeter of shall be a minimum 1.5 (below to swellable water stop (Greenstreal in keyway. Form and pour with Emaco S66 0 surface preparation and provide of with manufacturers recommendat continuous special inspection sha concrete pour."					s are found to be ter of opening (ke w top of slab), ins reak Hydrotite C. 66 CI by BASF. F de curing in acco ndations. Note: shall be provideo	intact, yway tall J -0725) Perform rdance J for the	
U-0190.1	Fire Hydrant Lo	ocation on Mission @ First		Closed	01/25/2012	02/04/2012	01/26/2012	Potentia	lly
From: Webc	or Construction LP	Colin Azevedo	To: Turner Construction Compa	n Steve Cunningham	Answered By	:Turner Constru	uction Comr Jeff	Thiel	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
On 1/24/20 roof per the William Liar and provide provide this	12 M Squared began repair response to RFI U-0190. ng came out and review the d alternate direction in the direction in writing so work	ring the basement SFDPW engineer e progress that day field. Please c may resume.			No alternate of SFDPW engin direction to su to RFI U-0190 Existing rebar sufficient com instruction be Per William L	tirection was giv neer. SFDPW p upplement the di based on his o was found to be crete cover. Plea low. ang of SFDPW	en at 1/24/12 site ovided informatic rection given in r bservations in the e uncut but lackin ase see suppleme	e visit by on and esponse e field. g entary	
					1. Chip out co damage (E) re	ncrete inside of ebars,	saw-cut area; do	not	
					2. (E) main re insufficient bo wire-mesh ab been cut durir process. Inst epoxy along ti embedment ir maintain 6" m epoxy shall bo	bars are found t ttom concrete c ove the main rel ng the sawcut all 3-#4 dowels hree sides w/ 6" nto (E) concrete ax from corners SIMPSON SE	o be intact but ha over; (E) bars are found to @ 12"o.c. max se (see attached ph , T-XP or HILTI HI <sup>-</sup>	ive have et in oto), r-	



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3. Install swellable waterstop (Greenstreak Hydrotite CJ-0725) above installed dowels, provide min 1.5" concrete cover.
<ul> <li>4. Form and pour w/ Emaco S66 CI by BASF (see attached cut sheets). Perform surface preparation and provide curing in accordance w/ manufacturer's recommendations.</li> <li>Note continuous special inspection shall be provided for the dowel installation and concrete pour.</li> </ul>
ORIGINAL RFI U-0190 RESPONSE FOR REFERENCE
<ol> <li>Chip out concrete inside of saw-cut area; do not damage (E) rebars.</li> <li>If (E) rebars are found to have been cut during the saw-cutting process, chip out enough concrete around the cut rebars for installation of Lenton Quick-Wedge Splicing system at both ends; splice new rebars with size to match (E). If (E) rebars are found to be intact, proceed to Step 3.</li> <li>Install keyway around perimeter of opening (keyway shall be a minimum 1.5" below top of slab), install swellable water stop (Greenstreak Hydrotite CJ -0725) in keyway.</li> <li>Form and pour with Emaco S66 Cl by BASF. Perform surface preparation and provide curing in accordance with manufacturers recommendations. Note: continuous special inspection shall be provided for the concrete pour."</li> </ol>

U-0191	Power Source at Loc	cation #1, #2 & #7		Closed	01/16/2012	01/26/2012	02/27/2012	Potentially
From: Webcor Constru	uction LP	Colin Azevedo	To: Turner Construction Compan S	eve Cunningham	Answered By:γ	Vebcor Construe	ction LP Jeff He	ath
Co-Author:								

REQUEST:

SUGGESTION:

ANSWER: Accept Suggestion:



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In order for the controller enclosures for the motorized gate valves at Location #1, #2 and #7 to be operational a power source will need to be provided at each enclosure location.

Please confirm that the owner has applied to PG&E for the power sources at these locations and advise on the status of these connections.

Revised Responce 2/27/2012

Jeff Thiel 2/23/2012 The TJPA has completed its application to SFPUC for power to AWSS facilities. The SFPUC has requested a minimum of four (4) weeks to make these connections. Sub contractor to coordinate meeting with SFPUC and PG&E prior to start of work.

Below is the MOP for coordinating power source connection as confirmed by Mathew Ho of the SFPUC.

1. Contractor to schedule coordination meeting with PG&E, PUC (Mathew Ho or Michael Mack) and Turner. Contractor to provide a construction schedule and set up Pre-con with PG&E (Per SFPUC request to inform them when Contractor expects to trench for electrical service and have the power pedestals installed)

2. Contractor to schedule PG&E trench inspection which is needed after contractor installs conduit but before closing the trench so that PG&E can prove the conduit via mandrel test (30days notice needed, Call PG&E inspection # 415-695-7519 and provide PM# located on drawing and provide PG&E job owner contact as Matt Herron)

3. PG&E to pull cables

4. Schedule a DBI inspection of the meter pedestal (Dave Green DBI 415-558-6654, forward PG&E a copy of the DBI green tag)

5. Once green tag is applied, PG&E to set up meter and then energize.

------

Origanal Response 1/26/2012

The TJPA has completed its application to SFPUC for power to AWSS facilities. The SFPUC has requested a minimum of four (4) weeks to make these connections. Sub contractor to coordinate meeting with SFPUC and PG&E prior to start of work.



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U-0191.1	Power Source	at Location #1, #2 & #7		Closed	03/21/2012	03/31/2012	05/01/2012	Potential	<b>y</b>
From: Webcor	r Construction LP	Colin Azevedo	To: Turner Construction Comp	an Steve Cunningham	Answered By	Transbay PMP	C Cory	Traylor	
Co-Author:									
REQUEST: Recent meeti response to F procedure to	ng on the AWSS project RFI#U-0191 being revise be followed once the cor	resulted in the d to include a htroller cabinets were	SUGGESTION:		ANSWER: Cory Traylor Greenbook sta connections for	Accept Sugg 5/1/2012 In acc andards and pra or motorized gat	gestion: ordance with PG ctices, power e valve equipme	&E nt shall	
ready to acce revised respo mentioned pro	pt power. However, what onse was a new scope of ocedure. drawings show M Square	at was sent in the work followed by the ed's work beginning			be installed at attached PG& equipment rec attached docu drawings.	the referenced E sketches, dire quirements. Wor ments shall take	locations per the ections and reque k not outlined in e place per contr	ested the act	
at pull boxes a interpretation to RFI#U-019 boxes to PG& PG&E drawin drawings	and going to the controll of the drawings sent in t if is the scope of work th & manholes. This is un the are not comparable v	ers. M Squared's he revised response lat goes from the pull clear because the vith the contract			Final coordina the field per n Connecting fo	tion for connection for connection for connection of the second s	ions shall take p is MA-29 and M/ attached PG&E	lace in A-31. PW-	
Please clarify Please clarify contract draw	y the intent and scope of y how the PG&E drawing vings.	the PG&E drawings. s correlate with the			Bureau of Eng	gineering.			
U-0192	AWSS Strong	Backs		Closed	01/18/2012	01/28/2012	02/08/2012	Potential	y 🗌
From: Webcor	r Construction LP	Colin Azevedo	To: Turner Construction Comp	an Steve Cunningham	Answered By	Turner Constru	ction Comr Jeff	Thiel	
REQUEST: Current projective (2) 14 is Signal of the strong barrier	ct drawings show that thi strong Backs and two (2) fferent locations. Indry does not produce st ude them in the order to contacted several source cks but have yet to find a e if it is possible to purch possible M Squared will h hem manufactured at a s lerably long time due to t teel.	is project requires 10¿ Strong Backs to rong backs and were M Squared. M es trying to locate a supplier. ase these from the ave no other option teel mill and this may he lead time in the	SUGGESTION:		ANSWER: Jeff Thiel 2/3 (SFDPW), -"We have been have the requination -Typically stro machine shop contacting oth AWSS work for	Accept Sugg 3/2012 Response en advised that t ested strong back ng backs were t is that handle lan er contractors w or sources."	gestion: e per Michael Sn the SFWD does cks in their inven orch cut at local ger fittings. Sug ho have perform	nith tory. gest ied	
					Signed and da	ated 02/01/12			



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U-0193	2nd to 1st St -	Various Conflicts		Closed	03/08/2012	03/18/2012	03/21/2012	Potential	ly 🗌
From: V	Vebcor Construction LP	Colin Azevedo	To: Turner Construction Comp	oan Steve Cunningham	Answered B	y:Turner Constru	uction Comr Stev	e Cunningha	m
Co-Author:									
REQUI See att discove and 1s Please Please	EST: tached sheet which details the ered in the potholing operations t Street. use Submittal TG04.2-024.1 for provide direction on how to pro-	conditions s between 2nd Street or reference. oceed at each	SUGGESTION:		ANSWER: Jeff Thiel 3/2 response, "Please see r	Accept Sug 20/2012 Michael	gestion: I Smith's (SFDP)	V) conflicts	
location	n.				at particular s	tation numbers	as listed in this F	RFI."	
					Signed and D	Dated (3/20/12)			
U-0194	AWSS Strong	Back Dimensions		Closed	03/13/2012	03/23/2012	03/21/2012	Potential	ly 🗌
From: V	Vebcor Construction LP	Colin Azevedo	To: Turner Construction Comp	ban Steve Cunningham	Answered B	:Turner Constru	uction Comr Stev	e Cunningha	m
Co-Author:									
REQUI On the Standa error in C (outs diamet	EST: detail for the strong backs on t ard AWSS Plans M Squared ha the dimensions for the 14" stro- side diameter) is smaller than d er). See attached.	the San Francisco s discovered an ong back. Dimension imension B (inside	SUGGESTION:		ANSWER: Jeff Thiel 3/ response, "M Squared is We will updat	Accept Sug 14/2012 Michael s correct. Thank	gestion:	V) this out.	
M Squa confirm	ared believes the OD should be n.	e 27.37". Please			Signed and d	ated 3/14/12. (S	ee Attached)		
U-0195	Parking Senso	ors on Mission		Closed	03/13/2012	03/23/2012	04/16/2012	Potential	ly
From: V	Vebcor Construction LP	Colin Azevedo	To: Turner Construction Comp	oan Steve Cunningham	Answered B	y:Turner Constru	uction Comr Jeff	Thiel	
Co-Author:									
REQU	EST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
M Squa have in surface	ared has discovered that either Istalled what appear to be sens a along Mission Street. See ph	SF Park or MUNI cors in the street oto attached.			Jeff Thiel 4/ Demisch of th sensors found Main Street a	12/2012 Per emaine SFpark Project d on Mission Str re inactive. SFF	ail conversation v ct (SFMTA), any eet from 2nd Stre Park's vendor pla	with Alex parking eet to ns to	
They e	xisting between Fremont and B	Beale in particular.			remove these of this year 20	e parking sensor 012. SFPark rea	s late April or ear alizes TJPA plan	rly May s to	
As the	AWSS line is installed along M	lission St from 2nd to			conduct AWS	SS construction	work in the upcor	ning	



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Main these these sens	sensors will be in conflict. ors will be removed prior to	Please confirm o trenching.			months and h TJPA sub-co begins, to se from other cc dispose elect parking sens parking sens understands TJPA AWSS	has asked if it wantractor, once A parate the parkin instruction debris ronic waste prop ors still remainin ors cannot be se they will end up construction wo	as possible to for the WSS construction mag sensor equipments so that SFPark in perly if there are are are are are are are perly if there server, if the apparated then SFP being demolished ark.	he nay ny ark from	
U-0196	AWSS Pipe Be	edding Material		Closed	04/02/2012	04/12/2012	04/09/2012	Potentia	lly 🗌
From: Webo	cor Construction LP	Colin Azevedo	To: Turner Construction Compan	Steve Cunningham	Answered B	y:Turner Constru	uction Comr Jeff T	hiel	
Co-Author:									
REQUEST	:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Section 022 the new AV section 027 bedding sh Please clar	225-2 2.2 specifies that the VSS piping shall be crushe 723-18 2.12 contradicts this all be pea gravel. ify.	e bedding material for ed rock, however s by specifying the			Jeff Thiel 4/9 TG0402-029 AWSS pipe b	/2012 Refer to s - Pipe Bedding I bedding material	ubmittal package Pea Gravel for app	proved	
U-0197	AWSS/PG&E I	Phase 2 Duct Conflict		Closed	04/05/2012	04/16/2012	04/16/2012	Potentia	llv 🗔
From: Web	cor Construction LP	Colin Azevedo	To: Turner Construction Compan	Steve Cunningham	Answered B	V:Turner Constru	uction Comr Jeff T	hiel	
Co-Author:			·						
REQUEST	:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
See attach	ed photo. M Squared disco	overed a conflict on			Jeff Thiel 4/	12/2012			
AWSS Mai	n at Howard and First.	remove the existing			Please confir	m that the Phas	e 2 PG&E duct pa	ckage	
PGE's new of the existi intersectior encased in encased or currently to	Phase 2 duct package is sing AWSS main at First and the top and sides of the concrete however the PVC on the bottom and the PVC ouching the AWSS Main at	sitting directly on top Id Howard duct bank are C conduits are not Conduits are this location.			that is in coni the correct el plans.	lict with the AW evation per the a	SS main was insta approved Phase 2	Illed at Utility	



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As a result M Squared is u AWSS main from this poir Please advise on how you	unable to remove the existing ht east. I would like to proceed.							
U-0197.1 AW	SS/PG&E Phase 2 Duct Conflict Location	7	Closed	04/16/2012	04/26/2012	04/17/2012	Potential	ly 🗌
From: Webcor Constructio	n LP Colin Azevedo	To: Turner Construction Compan	Steve Cunningham	Answered By:	Turner Construe	ction Comr Jeff T	hiel	
Co-Author:								
REQUEST: The Phase 2 PG&E plans and clearances. It appear installed in accordance wit requirement but not the m Please confirm this with P Regardless, the AWSS maplan and maintain minimu AWSS specification. Plea proceed.	only provide minimum depths is the Phase 2 ducts were th the minimum depth inimum clearance requirement. G&E. ain can not be reinstalled per m clearance required in the ase advise how M Squared is to	SUGGESTION:		<ul> <li>ANSWER:</li> <li>Michael Smith'</li> <li>"Per a site insp Turner, and We between the re the existing 12: confirmed. The contact with the</li> <li>The two option</li> <li>1.) Request the relocate the react there is the react there is the react there is the react two utilities.</li> <li>2.) Realign the either over or us installation of a Should option I soon as possibility vertical offset winstallation of the Signed and Data</li> </ul>	Accept Sugg s (SFDPW) resp ection this more abcor/Obayashi cently installed inch cast iron A duct bank cond e existing AWSS s to rectify this s hat PG&E or the cently installed of uired 12-inch cl and proposed rep inder the PG&E vertical offset. No. 2 be selected le since revision vill need to be p ne vertical offset ted 4/11/12.	estion: bonse, hing with SFWD, , the clearance of PG&E duct bank WSS main was duits are in direct S pipe. situation include: eir contractor vert duct bank in orde earance between lacement AWSS duct bank by the ed, please advise n drawing(s) for th repared prior to th t."	M2, onflict and ically r that the main as ne	



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					The phase two Green Book re between utility properly coord Work related at no additiona	o duct bank was equirements for services, and t inate utility inst to this RFI resp al cost to the ow	s not installed per minimum clearan he contractor faile allation. onse shall be perf ner.	PG&E ce d to ormed	
U-0197.2	AWSS-PG&E I	Phase 2 Duct Conflict		Closed	04/23/2012	05/03/2012	05/02/2012	Potentia	lly 🗌
From: Webcor (	Construction LP	Colin Azevedo	To: Turner Construction Compan	Steve Cunningham	Answered By	Turner Constru	uction Comr Jeff T	hiel	
Co-Autnor:									
REQUEST: Through detaile during the week been determine PG&E duct ban response to RF Please provide referenced in o	ed analysis and discuss kly AWSS coordination ed that it would be infea ik as requested in option l#U-0197.1. details for realigning th ption two in the respon	sions with PG&E n meetings it has asible to relocate the on one in the he AWSS main hse to RFI#U-0197.1.	SUGGESTION:		ANSWER: Jeff Thiel 4/2 response, "The contractor PG&E duct ba as required to clearance betw main and the r Please refer to Signed and da	Accept Sug 3/2012 Michael or shall install a nk using four (4 maintain a min ween the new 1 recently installe the attached s ited 4/16/12	gestion: Smith¿s (SFDPV vertical offset und 4) 22 ½ - degree e imum 16-inches vo 2-inch ductile iron d PG&E duct bank ketch."	V) er the Ibows ertical AWSS <.	
					This work shal the TJPA.	ll be performed	at no additional co	ost to	
U-0198	Vault Drainage	e		Closed	04/09/2012	04/09/2012	04/16/2012	Potentia	lly

From: Webcor Construction LP

Colin Azevedo

To: Turner Construction Compan Steve Cunningham

Co-Author:



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REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	nestion.							
1. On sheet MA-26 t manhole is labeled a but is described as ty construction note #7.	he 1" discharge piping inside the s stainless steel in the detail drawings /pe K copper tube in the manhole Please confirm what type of material						Jeff Thiel 4/11/2012 Michael Smith's (SFDPW) response, 1.) The piping within the sewer manhole shall be Type						
is required. 2. Spec Section 027 of ball float valves as However the float va Please confirm if the	28-23 Paragraph E. calls for the use shown on the construction drawings. ves are not shown on the drawings. se ball float valves are required.			304 stainless 2.) The contra ball float valve gate valve va of electrical s	steel. actor shall disreg es for the three ( ults in this contra ump pumps to b	ard the installation 3) concrete motor act due to the insta e installed at all th	n of the ized allation nree (3)						
				locations. Signed and D	ated 4/10/12								



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Contractor to document all coordination with AT&T

regarding this conflict.

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U-0199	PG&E Vault Conflict	with North East Tie In @	Location 7	Closed	04/16/2012	04/26/2012	04/23/2012	Potential	ly 🗌
From: Webcor Constru	iction LP	Colin Azevedo	To: Turner Construction Compan	Steve Cunningham	Answered By:⁻	Furner Construc	ction Comr Jeff TI	hiel	
Co-Author:									
<b>REQUEST:</b> Today while setting up joint at the North East that the existing PG&I close and E. Mitchell w the lead joint. Please advise how M	o to remove and cast th tie in at location 7 it wa E vault adjacent to the would not be able to pro Squared is to proceed.	e new lead as discovered tie in is too operly caulk	SUGGESTION:		ANSWER: Jeff Thiel 4/20 repsonse, "The contractor facilities in orde minimum cleara PG&E electrica Should PG&E r the contractor s east on Howard (GHB joint from reducing adapto connect the new existing cast iro new bell and sp concrete vault v	Accept Sugg /2012 Michael S shall request P r that there is the ance between the l vault. Not be able to re- hall excavate a Street to the n the 12"x10" ca or for the 10-inco v ductile iron AV n main. The co igot pipe joints vall."	estion: Smith's (SFDPW) PG&E to relocate the required 12-ind the AWSS main a clocate their facility pproximately 12- ext existing pipe st iron GHBxGH h gate valve) in co WSS main to the ntractor shall loca before after the	their ches nd the ties, feet joint spigot order to ate any	
U-0200 From: Webcor Constru Co-Author: REQUEST: It has been discovered West tie in of Location pipe and tie rods to be Please advise how M	AT&T Vault Conflict a action LP d that the AT&T vault n a 7 is in conflict with the e installed at this location Squared is to proceed.	at Location 7 Colin Azevedo ear the North a new AWSS on.	To: Turner Construction Compan SUGGESTION:	Closed Steve Cunningham	Signed and date 04/16/2012 Answered By: ANSWER: Jeff Thiel 4/20 response, "The contractor electrical vault of required in order minimum cleara ATT electrical v Signed and date	ed 4/16/12 04/26/2012 Furner Construct Accept Sugg /2012 Michael S shall request A or remove portion r that there is thance between thault. " ed 4/16/12 (see	04/23/2012 ction Comr Jeff The estion: Smith's (SFDPW) ATT to relocate the per required 12-ingreent the AWSS main and attached)	Potential niel ) eir ull as ches nd the	ly []



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U-0200.1	AT&T Vault Co	onflict at Location 7		Closed	04/24/2012	05/04/2012	04/24/2012	Potential	ly 🗌
From: Webcor	Construction LP	Colin Azevedo	To: Turner Construction Com	pan Jeff Thiel	Answered By	Turner Constru	ction Comr Jeff T	niel	
Co-Author:									
REQUEST: The response the coordinatic provide a revis	to RFI#U-0200 did not p on efforts and course of sed response.	properly document action. Please	SUGGESTION:		ANSWER: Jeff Thiel 4/2 original respor	Accept Sugg 4/2012 Michael ase to RFI U-020	<b>Jestion:</b> Smith's (SFDPW) 00,	)	
See attached	email chain for additiona	al information.			"The contract electrical vault required in ord minimum clea ATT electrical Signed and Da	or shall request or remove a po ler that there is t rance between t vault" ated 4/16/12 (Se	ATT to relocate th rtion of the vault v he required 12-in he AWSS main a he attached)	neir vall as ches nd the	
					A Coordinatior MSquared, W/ Squared would company. If ar TJPA would be	n meeting was h O and Turner. It d attempt to dea n agreement cou e notified.	eld on 4/18/12 wit t was agreed that I directly with the Ild not be made th	h ATT, M utility ne	
U-0201	AWSS - Count	ersunk Bolts in 14-Inch D	uctile Iron Pipe Strong Back Plate	Pendina	05/04/2012	05/14/2012	05/08/2012	Potential	
From: Webcor	Construction LP	Jackson Tukuafu	To: Turner Construction Com	pan Steve Cunningham	Answered By	Turner Constru	ction Comr Jeff T	niel	.,
Co-Author: M Squar	red Construction, Inc.	Aidan Foley			-				
<b>REQUEST:</b> Please referer STANDARD D	nce attached excerpt fro DRAWING III, drawing N	m the AWSS o. AWSS 3.	SUGGESTION:		ANSWER: Jeff Thiel 5/7 response,	Accept Sugg /2012 Michael S	gestion:		
The sizing cha Strong Back T	art for 14" diameter pipe Type B. The Type B Stro	require the use of ong Back			"-The propose -The Contracto	d change is acc or shall field veri	eptable. fy the actual pipe		



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configuration requires the use of a countersunk bolt and nut to adjoin connecting DI pipe. The countersunk bolts are a special order product and will have to be fabricated specifically for each piece.

Please confirm it is acceptable to use the typical 316 Stainless Steel bolt and nut without the countersink, similar to what is used and shown in Type A for all 14" diameter DI pipe. outside diameter at each location prior to having strong back fabricated due to differing pipe diameters in use."

Signed and date 5/7/12 (See Attached)

## END OF REPORT

Project: 30100	Status Class:	
Sent To:	Run Date:	05/11/2012
Restrict Value of: C	Run Time:	01:34 PM
From Date:	Operator:	NTRAN
To Date:	Report Code:	PM3012
Status:		

Report Parameters





Transbay Transit Center – San Francisco, CA

Noise and Vibration Mitigation Management Plan

Webcor/Obayashi January 16, 2012

## **GENERAL:**

The Webcor/Obayashi (W/O) Noise and Vibration Mitigation Management policy that will be implemented on the Transbay Transportation Center Project will be an overall project policy, with each Trade Subcontractor contributing their specific plan as they come on board to the project. The primary function of this plan is to comply with Specification Section 00 08 13, 00 08 13/APB, the San Francisco Noise Control Ordinance, regulations and requirements and section 01 35 65, Specific Project mitigation measures and monitoring requirements as applicable to the various phases of work.

When required by the specifications, W/O will ensure its Trade Subcontractors comply with this plan as well as the San Francisco Noise Control Ordinance.

W/O will ensure its Trade Subcontractors apply for written waivers, when required by the specifications or contract, of some of the noise requirements to expedite the project or minimize impacts by application to the TJPA in accordance with Section 00 08 13 Specific Project Requirements. Written waivers shall be uploaded to ConstructWare by CM/GC. Trade Subcontractors shall minimize construction activities during evening, nighttime, weekend, and holiday periods and shall obtain specific permits before performing construction in noise sensitive areas during these periods. The Trade Subcontractor may rely on performing the following Work activities outside the noise requirements:

- 1. Buttress drilling operation
- 2. Mass excavation
- 3. Welding of internal bracing
- 4. Welding of superstructure

Night noise permits shall be submitted to the TJPA at least 72 hours in advance of work. Noise permit shall include:

- 1. Name of person in charge of work and phone number
- 2. Hours to be worked
- 3. Narrative of scope of work including maps and truck routes
- 4. List of noise/vibration/light making equipment including make and model
- 5. Mitigation and monitoring methods being used

W/O will ensure its Trade Subcontractors will provide noise inspections and testing of equipment to ensure that all equipment onsite is in good condition and effectively muffled per manufacturer's recommendation. If inspection or testing documents are requested by the TJPA, or any of its representatives, W/O will require its Trade Subcontractors to provide requested documentation in a timely manner. Trade Subcontractors shall provide inspection and testing documents prior to start of work and as the equipment is replaced to CM/GC. CM/GC shall upload documents to a file location within ConstructWare.

W/O will ensure its Trade Subcontractors will minimize use of vehicle backup alarms and demonstrate how backup alarms will be minimized by using mitigation measures such as: design the construction site with a circular flow pattern that minimizes backing up of trucks and other heavy equipment. Trade Subcontractors shall submit quarterly reports of measures to reduce back up alarms. W/O shall upload these reports to a specific location with ConstructWare.

W/O will ensure all its Trade Subcontractors' equipment onsite is equipped with ambient sensitive alarms that will automatically adjust based on the ambient noise during nighttime hours when ambient

noise is low. Trade Subcontractors shall comply with the TJPA's request for ambient sensitive alarms for all work after 8PM. If requested by the TJPA or its representative, Trade Subcontractors shall provide W/o with equipment specifications showing ambient sensitive alarms for submission via ConstructWare.

Through W/O's requirement submittals outlined in this noise and vibration plan, W/O will verify Trade Subcontractors' construction operations are performed in such a manner to minimize noise.

W/O will verify Trade Subcontractors perform noise monitoring to demonstrate compliance with noise limits and endeavor to minimize construction activities during off hours except for those required and deemed acceptable per the Contract Documents. Trade subcontractors shall submit monthly monitoring reports to W/O for submission via ConstructWare.

W/O will verify Trade Subcontractors haul routes to ensure they minimize noise intrusion into residential areas, and control noise during nighttime hours.

W/O will require all Trade Subcontractors to use procedures and equipment, when it would be effective, that produce lower noise levels than normal when required by the specifications or contract. W/O will require the subcontractor submit manufacturer special noise control kit information. If none is available, then the trade subcontractor needs to submit a statement of this. Upon revival and review of the information, W/O and the subcontractor will identify the events when the noise control measures should be used based on the specifications.

W/O will require all Trade Subcontractors plans to include use of temporary barriers near noisy activities as required by the specifications or contract. Locate such barriers close enough to the noise source to obtain noise attenuation and as necessary and when it is shown it would be effective, construct shed-like structures or complete buildings to contain the noise from nighttime activities.

W/O shall require haul route map, plan and storage location be part of Trade Subcontractors plan and included within its submittal.

## VIBRATION CONTROL

Vibration limits are based upon the Federal Transit Administration's Planning and Environment Transit Noise and Vibration Impact Assessment guidelines. W/O will require all Trade Subcontractors' to limit or prohibit use of construction techniques that create high vibration levels when it affects adjacent properties.

If construction techniques that create high vibration levels are used, W/O will require all Trade Subcontractors' to comply with the following additional restrictions:

- Provide advance notice to TJPA of any vibration intensive activities. Perform vibration monitoring during vibration intensive activities during daytime hours between 7 a.m. and 8 p.m. unless otherwise allowed by special permit or variance, as required by the specifications or contract. Recorded data should be part of the Trade Subcontractor Daily report. A summary shall be submitted monthly and uploaded to ConstructWare.
- 2. Trade Subcontractors to investigate alternative construction methods and practices to reduce the impacts if resident and implement alternative methods and practices as reasonable.
- 3. Trade Subcontractors shall provide a plan to measure vibration levels including but not limited to measurement locations, times and metrics. Plan shall also include contingency plan if

operations exceed the limits. This plan shall be uploaded into ConstructWare by W/O.

4. Limit or prohibit use of construction techniques that create high vibration levels.

Trade Subcontractors shall be responsible for providing technical information, as required by the specifications, in their plan. Trade Subcontractors plan shall but submitted via ConstructWare for Record Only.





## Transbay Transit Center – San Francisco, CA

<u>Air Quality Plan</u> Webcor/Obayashi January 16, 2012

## **GENERAL PLAN:**

The Webcor/Obayashi (W/O) Air Quality Plan that will be implemented on the Transbay Transit Center Project will be an overall policy with each subcontractor contributing their specific plan as they come on board to the project. The primary function of this plan is to comply with the Bay Area Air Quality Management District regulations and requirements.

W/O will require its Trade Subcontractors to establish a plan that complies with all requirements set for in specification sections 00 08 13, and 01 35 65 prior to starting Work onsite. W/O shall check and verify trade subcontractor's compliance with air quality requirements on a daily basis. Any non-compliant trade subcontractors will receive both verbal and written notice through Safe Site One (W/O internal program). Additional, W/O will require trade subcontractors to demonstrate they are actively monitoring air quality by providing checklists or documentation on each Trade Subcontractors daily report. W/O shall verify its Trade Subcontractors Air Quality plan includes the following but not necessary limited to:

- 1. Specific measures to minimize impacts to sensitive receptors associated with exposure to respirable nuisance dust (PM10) and achieve a goal of No Visible Emissions.
- W/O shall verify Trade Subcontractors comply with City Dust Control Order (DPW Order No. 171,378. Water active construction areas at least twice daily to control dust using non-potable water in accordance with San Francisco Ordinance 175-91
- 3. Identify specific measures to minimize dust generation; to reduce health risks to workers and the public.
- 4. Mist the immediate excavation area with a water spray to prevent airborne dust particles. Perform continuous water spraying during dust-generating activities. Mist or spray in such a way as to prevent puddling or generation of runoff, which could potentially reach storm drains or catch basins.
- 5. Minimize the amount of excavated material or demolished debris stored at the Site. Remove excavated material and demolished debris, with the exception of hazardous materials or suspected hazardous materials, from the Site no later than the end of each workday. If hazardous materials or suspected hazardous materials are stored on site, store such materials in accordance with all applicable California Environmental Protection Agency regulations, including providing storage in proper containers and protection from exposure to the elements. Remove such materials from the Site as soon as possible for disposal or recycling in accordance with applicable laws and regulations.
- 6. Wet all exposed soil surfaces at least 3 times daily during dry weather or more frequently if dust is blowing or if required by the TJPA. Immediately wet sweep serpentine residuals from the street.
- 7. Keep the Site and adjacent areas clean and perform wet sweeping at the end of each shift. Sweep daily (with water sweepers) all paved access roads, parking areas and staging areas at construction sites. Sweep streets daily (with water sweepers) if visible soil material is carried onto adjacent public streets.
- 8. Load haul trucks carrying excavated material so that the material does not extend above the walls or back of the truck bed. Wet before covering and tightly cover the surface of each load before the haul truck leaves the loading area. Cover trucks hauling soil, sand, and other loose materials or require trucks to maintain at least 2 feet of freeboard
- 9. Clean up spillage on City streets, whether directly or indirectly caused by Contractor's operations.

- 10. Minimize use of on-site diesel construction equipment, particularly unnecessary idling. Shut off construction equipment to reduce idling when not in direct use. Where feasible, replace diesel equipment with electrically powered machinery.
- 11. Retain receipts of ultra-low sulphur fuel (ULSF) purchase and equipment tuning and repair and make these available to the TJPA Representative or to the Federal Transit Administration (FTA) designee upon request.
- 12. Locate diesel engines, motors, or equipment as far away as possible from existing residential areas.
- 13. Properly tune and maintain diesel power equipment. To manufacturer's specification and frequency.
- 14. Suspend grading operations during first and second stage smog alerts, and during high winds (i.e., winds greater than 25 miles per hour).
- 15. Upon completion of the construction phase, buildings with visible signs of dirt and debris from the construction site shall be power-washed and/or painted (provided that permission is obtained from the property owner to access and wash the property with no fee charged by the (owner). Trade Contractor shall request CMGC to contact Singer and Associates to notify property owners for access. If permission from property owners for access is not granted, Trade Contractor is not responsible for power-washing or painting.
- 16. Pave, apply water three times daily, or apply (non-toxic) soil stabilizers on all unpaved access roads, parking areas, and staging areas at construction sites.
- 17. If applicable, replant vegetation in disturbed areas as quickly as possible.

W/O will verify Trade Subcontractors comply with the requirements of the Bay Area Air Quality Management District (BAAQMD) Regulation 6 (for particulate matter and visible emissions), Regulation 7 "Odorous Substances," Regulation 11 "Hazardous Pollutants," and the California Health and Safety Code Division 26 "Air Resource", Chapter 3 "Emission Limitations," Section 41700 "Prohibited Conduct," and related regulations. Trade Subcontractors shall notify the BAAQMD 10 working days prior to commencing demolition or hazardous materials abatement work.

- Such notification shall include the names and addresses of operations and persons responsible; description and location of the structure to be demolished or altered including size, age and prior use, and the approximate amount of friable asbestos; scheduled starting and completion dates of demolition or abatement; nature of planned work and methods to be employed; procedures to be employed to meet BAAQMD requirements; and the name and location of the disposal site.
- 2. The BAAQMD randomly inspects removal operations and will respond to any complaints received. Contractor shall cooperate with and facilitate all BAAQMD authorized inspections.\
- 3. Notifications shall be documented and provided to CM/GC for submission to the TJPA via ConstructWare.

Trade Subcontractors shall be responsible for providing technical information, as required by the specifications, in their plan. All trade subcontractors plans shall be submitted for Record Only via ConstructWare.





## Transbay Transit Center – San Francisco, CA

## Waste Management and Construction Debris Plan Revision 5



Webcor/Obayashi February 23, 2012

## **GENERAL PLAN:**

Webcor/Obayashi understands that the building contractor plays a critical role in the management of jobsite produced construction waste. Webcor /Obayashi has adopted a waste reduction and recycling policy that will be implemented on the Transbay Transportation Center Project. This policy will be an overall policy with each subcontractor contributing their specific plan as they come on board to the project.

The primary goal of the plan is to divert as much construction generated debris & unused material from landfills as possible. At a minimum, Webcor/Obayashi and its trade subcontractors will divert 75% of the waste generated on the construction project from landfills. Trade subcontractors Construction Waste Management Plan shall be prepared and submitted in compliance with the Owner's LEED project requirements and the requirements of the city of San Francisco.

The Trade Subcontractors are required to comply with Specification Sections 00 08 15, 01 74 00, and 01 81 13 as well as any or all of the procedures listed below. If a conflict in percentages exists between this section and Section 01 81 13, General LEED Building Design and Construction Requirements, the most stringent section shall govern.

- The use of debris haulers with documented recycling levels.
- 2) Supplying material specific debris boxes on site for such items as lumber and wood related products, dirt, concrete and asphalt, cardboard & metals.
- Having trade specific trade subcontractors haul their own waste to local recyclers.
- Requesting trade subcontractors and vendors to utilize reusable packaging when possible.
- Trade subcontractors plan shall outline the expected wastes to be generated on site, means of recycling and disposal, handling methods, hauling, and required documentation for achieving LEED for New Construction credits MR 2.1 and MR 2.2, Construction Waste Management at 75% landfill diversion or greater.

All Trade Subcontractors shall develop their own Waste Management and Construction Debris Plan that complies with the Contract Documents and this plan. Trade Subcontractors shall submit this plan in accordance with the specifications and it shall become part of Webcor/Obayashi's overall project plan. All technical requirements defined in the contract documents shall be fulfilled by Trade Subcontractors and submitted to the CMO For Record only through ConstructWare

Webcor/Obayashi as the WEBCOR/OBAYASHI JOINT VENTURE will ensure the Trade Subcontractors are effectively implementing the procedures and are in compliance with Specifications by verifying;

WEBCOR/OBAYASHI JOINT VENTURE will verify that after Award of Contract and before commencement of the Work at the site, the Trade Subcontractor conducts a Reuse/Recycle Assessment as part of their Solid Waste Management Plan (SWMP): Trade Subcontractor's assessment shall estimate the types and quantities of materials for the Project that are anticipated to be feasible for source separation for recycling or reuse, either onsite or offsite, and note the procedures intended for a recycling, reuse, and salvage program. Documentation of the trade subcontractor's plan shall consist of the following:

- Trade subcontractor and vendor waste management strategies.
- Trade subcontractor required to provide a monthly summary of the total waste material with backup documentation (weight tickets).
- The amount recycled (in tons), material types, recycling procedures, and processing facility locations to which materials were diverted.

Trade subcontractor Construction Waste Management Plan shall also include estimated wastes, disposal, and handling with the following:

a. List of materials that comprise source separated materials include, but are not limited to:

- Concrete, Wood, Mud, Mixed Aggregates, Yard waste, Metals, and Cardboard.
- Yard waste is not included in our overall diversion rate calculation on the template or corresponding spreadsheet per the requirements from the LEED BD&C v3.0 Reference Guide.

b. List of materials that comprise Miscellaneous Construction Debris include, but are not limited to:

- Wood, Scrap Metal, Drywall, Plastics, Film Plastics, Wire, Cable, Glass.
- The total quantity estimated, inception to completion Disposal.
- Total Project Generation, Diversion + Disposal.
- Project Diversion Rate.

WEBCOR/OBAYASHI JOINT VENTURE will verify that Construction and Demolition Waste: Nonhazardous solid resources resulting from Trade Subcontractor's construction, remodeling, repair, and demolition operations for the Project are properly transferred to a C&D Recycling Facility: A facility that receives only C&D (construction and demolition) material. Trade Subcontractors shall provide Webcor/Obayashi a summary sheet, including all receipts for transport materials each month with the progress billing.

WEBCOR/OBAYASHI JOINT VENTURE will verify that of the inevitable waste generated, Trade Subcontractor's reuse, salvage, or recycle as many of the waste materials as economically feasible.

WEBCOR/OBAYASHI JOINT VENTURE will participate/attend a meeting with Trade Subcontractor, the TJPA Representative and representatives of the City's Solid Waste Management and recycling programs prior to commencement of work. Webcor/Obayashi will

ensure all trade subcontractors are made aware of the LEED requirements for C&D diversion before being allowed to work on the site.

WEBCOR/OBAYASHI JOINT VENTURE will verify that Trade Subcontractors submit a Monthly Disposal and Recycling Summary Report: quantifying the construction and demolition waste generated and recycled, reused or disposed of at Class 3 Landfill. Contractor shall also send a copy of this report to the TJPA Representative and the SWMP to the City Government Recycling Coordinator. The Comprehensive Disposal and Recycling Summary Report shall be submitted quantifying the construction and demolition waste generated and recycled, reused or disposed of at Class 3 Landfill, on a monthly basis. This report is a condition of progress payment and failure to submit this information shall render the Applications for Payment incomplete. Subcontractors/trades are responsible for contracting with a regional facility to haul materials from the site. The trade subcontractor shall calculate the C&D diversion rate for both LEED requirements (excluding yard waste) and the requirements set by The City (including yard waste). The W/O LEED representative will screen every C&D Submittal and review trade contractor and subcontractors C&D Plans for clarity, completeness, and compliance with City/LEED requirements.

WEBCOR/OBAYASHI JOINT VENTURE will verify that Trade Subcontractors develop and implement procedures for source separation to the greatest extent feasible.

WEBCOR/OBAYASHI JOINT VENTURE will verify the Trade Subcontractors plans develop and implement procedures for transporting commingled (mixed) construction and demolition waste that cannot be feasibly source-separated.

WEBCOR/OBAYASHI JOINT VENTURE will verify the Trade Subcontractors plans develop and implement procedures for Salvage and Reuse.

WEBCOR/OBAYASHI JOINT VENTURE will verify the Trade Subcontractors plans develop and implement practices for this project that will reduce waste at the source.

WEBCOR/OBAYASHI JOINT VENTURE will verify the Trade Subcontractors plans develop and implement procedures for materials are recycled and/or reused onsite

WEBCOR/OBAYASHI JOINT VENTURE will verify that Trade Subcontractors participate in reuse programs by reviewing each trade subcontractors Monthly Disposal report. For such reuse programs, Trade Subcontractor so shall refer to the City's construction and demolition recycling program.

Contractor shall review the environmental goals of this Project with all Trade Subcontractors during the preconstruction meeting. CMGC shall make a proactive effort to increase awareness of these goals among the Contractor's job site workers. W/O will make a proactive effort to increase awareness of these goals among the site workers by requiring that each Subcontractor take Click Safety training prior to stepping on the jobsite. As part of this Click Safety training,

there is a module dedicated to teaching and reviewing the LEED requirements of the project during construction activity.

WEBCOR/OBAYASHI JOINT VENTURE will verify that Trade Subcontractors are using registered transporters and registered facilities. Only registered transporters can remove mixed construction and demolition debris from the construction site, and they must take this material to a registered facility. NOTE: Registered facility: Any facility that accepts mixed construction and demolition debris for processing and recycling must be registered with the City and must demonstrate an overall minimum recycling rate of 65% for mixed construction and demolition debris. A registered facility must have applied for and received a registration from the San Francisco Department of the Environment. W/O will ensure that Waste Management Companies that service San Francisco that are retained by the trade subcontractors are registered transporters and meet the City/LEED requirements. Trade Subcontractors shall refer to SFEnvironment.org for the citys most current list of registered transporters.

WEBCOR/OBAYASHI JOINT VENTURE will verify that Trade Subcontractors are implementing the following:

- 1. Eliminate the procurement of unneeded supplies.
- 2. Reduce waste by printing and copying double-sided.
- 3. Submit all submittals, reports, and forms in electronic format (PDF) unless otherwise noted.
- 4. Fully participate in available and required recycling and composting programs.
- 5. Purchase products made with recycled content such as paper and recycled aggregate.

WEBCOR/OBAYASHI JOINT VENTURE will verify that Trade Subcontractors shall submit:

1. Construction and Demolition Debris Management Plan.

2. Construction and Demolition Debris Recovery Monthly Summary Report and supporting documentation.

3. Construction and Demolition Debris Recovery Final Report.

Trade Subcontractors plan shall comply with specification section 02 41 00. All Trade Subcontractors will remove and dispose of all waste materials from the site for off-site disposal in compliance with all applicable laws, ordinances, rules, and regulations. W/O and all subcontractors will work with the TJPA representative so that the representative may characterize the waste materials as required by law to the extent required by the contractor's selected disposal facilities.

Trade Subcontractors plan shall comply with specification section 01 15 00. Trade Subcontractors shall perform work in a manner to minimize generation of dust, dirt, rubbish, and other debris, to prevent dust and debris from interfering with the progress of the work, and to keep dust and debris from accumulating at the work site or adjacent areas. Trade subcontractors shall remove debris and rubbish from the site on a daily basis.

Trade Subcontractors plan shall comply with specification section 01 13 50, by preventing the mixing of hazardous and non-hazardous materials.

Trade subcontractors shall be required to provide technical information, as required by the specifications including compliance with CCSF Ordinance 27-06, in their plan which will be submitted For Record Only to the CMO.



# Exhibit Q APPRENTICESHIP PROGRAM



## WEBCOR/OBAYASHI JOINT VENTURE - TRADE SUBCONTRACTOR'S APPRENTICESHIP REQUIREMENTS

Trade Subcontractor Name
--------------------------

## CRAFTS EXPECTED TO BE EMPLOYED BY TRADE SUBCONTRACTOR

CRAFT (i.e. Carpenters)	List Minimum Apprentice Ratio (As required by registered Apprenticeship program for Craft)	List Maximum Apprentice Ratio (As required by registered Apprenticeship program for Craft)

## CRAFTS EXPECTED TO EMPLOYED BY SUBCONTRACTORS OF THE TRADE SUBCONTRACTOR

#### SUBCONTRACTOR #1

## Subcontractor Name

CRAFT (i.e. Carpenters)	List Minimum Apprentice Ratio (As required by registered Apprenticeship program for Craft)	List Maximum Apprentice Ratio (As required by registered Apprenticeship program for Craft)

#### SUBCONTRACTOR #2

Subcontractor Name
--------------------

CRAFT (i.e. Carpenters)	List Minimum Apprentice Ratio (As required by registered Apprenticeship program for Craft)	List Maximum Apprentice Ratio (As required by registered Apprenticeship program for Craft)

# WEBCOR/OBAYASHI JOINT VENTURE - TRADE SUBCONTRACTOR'S APPRENTICESHIP REQUIREMENTS SUBCONTRACTOR #3

Subcontractor Name		
CRAFT (i.e. Carpenters)	List Minimum Apprentice Ratio (As required by registered Apprenticeship program for Craft)	List Maximum Apprentice Ratio (As required by registered Apprenticeship program for Craft)

#### **SUBCONTRACTOR #4**

Subcontractor Name	

CRAFT (i.e. Carpenters)	List Minimum Apprentice Ratio (As required by registered Apprenticeship program for Craft)	List Maximum Apprentice Ratio (As required by registered Apprenticeship program for Craft)

## **SUBCONTRACTOR #5**

Subcontractor Name	

CRAFT (i.e. Carpenters)	List Minimum Apprentice Ratio (As required by registered Apprenticeship program for Craft)	List Maximum Apprentice Ratio (As required by registered Apprenticeship program for Craft)

## **SUBCONTRACTOR #6**

Subcontractor Name	

CRAFT (i.e. Carpenters)	List Minimum Apprentice Ratio (As required by registered Apprenticeship program for Craft)	List Maximum Apprentice Ratio (As required by registered Apprenticeship program for Craft)

# WEBCOR/OBAYASHI JOINT VENTURE - TRADE SUBCONTRACTOR'S APPRENTICESHIP REQUIREMENTS SUBCONTRACTOR #7

Subcontractor Name		
CRAFT (i.e. Carpenters)	List Minimum Apprentice Ratio (As required by registered Apprenticeship program for Craft)	List Maximum Apprentice Ratio (As required by registered Apprenticeship program for Craft)

#### **SUBCONTRACTOR #8**

Subcontractor Name	

CRAFT (i.e. Carpenters)	List Minimum Apprentice Ratio (As required by registered Apprenticeship program for Craft)	List Maximum Apprentice Ratio (As required by registered Apprenticeship program for Craft)

## **SUBCONTRACTOR #9**

Subcontractor Name	

CRAFT (i.e. Carpenters)	List Minimum Apprentice Ratio (As required by registered Apprenticeship program for Craft)	List Maximum Apprentice Ratio (As required by registered Apprenticeship program for Craft)

## **SUBCONTRACTOR #10**

Subcontractor Name	

CRAFT (i.e. Carpenters)	List Minimum Apprentice Ratio (As required by registered Apprenticeship program for Craft)	List Maximum Apprentice Ratio (As required by registered Apprenticeship program for Craft)
## WEBCOR/OBAYASHI JOINT VENTURE - TRADE SUBCONTRACTOR'S APPRENTICESHIP REQUIREMENTS SUBCONTRACTOR #11

Subcontractor Name		
CRAFT (i.e. Carpenters)	List Minimum Apprentice Ratio (As required by registered Apprenticeship program for Craft)	List Maximum Apprentice Ratio (As required by registered Apprenticeship program for Craft)

#### **SUBCONTRACTOR #12**

Subcontractor Name	

CRAFT (i.e. Carpenters)	List Minimum Apprentice Ratio (As required by registered Apprenticeship program for Craft)	List Maximum Apprentice Ratio (As required by registered Apprenticeship program for Craft)

## **SUBCONTRACTOR #13**

Subcontractor Name

CRAFT (i.e. Carpenters)	List Minimum Apprentice Ratio (As required by registered Apprenticeship program for Craft)	List Maximum Apprentice Ratio (As required by registered Apprenticeship program for Craft)

#### **SUBCONTRACTOR #14**

Subcontractor Name	

CRAFT (i.e. Carpenters)	List Minimum Apprentice Ratio (As required by registered Apprenticeship program for Craft)	List Maximum Apprentice Ratio (As required by registered Apprenticeship program for Craft)

## WEBCOR/OBAYASHI JOINT VENTURE - TRADE SUBCONTRACTOR'S APPRENTICESHIP REQUIREMENTS SUBCONTRACTOR #15

Subcontractor Name		
CRAFT (i.e. Carpenters)	List Minimum Apprentice Ratio (As required by registered Apprenticeship program for Craft)	List Maximum Apprentice Ratio (As required by registered Apprenticeship program for Craft)

#### **SUBCONTRACTOR #16**

Subcontractor Name	

CRAFT (i.e. Carpenters)	List Minimum Apprentice Ratio (As required by registered Apprenticeship program for Craft)	List Maximum Apprentice Ratio (As required by registered Apprenticeship program for Craft)

## **SUBCONTRACTOR #17**

Subcontractor Name

CRAFT (i.e. Carpenters)	List Minimum Apprentice Ratio (As required by registered Apprenticeship program for Craft)	List Maximum Apprentice Ratio (As required by registered Apprenticeship program for Craft)

#### **SUBCONTRACTOR #18**

Subcontractor Name	

CRAFT (i.e. Carpenters)	List Minimum Apprentice Ratio (As required by registered Apprenticeship program for Craft)	List Maximum Apprentice Ratio (As required by registered Apprenticeship program for Craft)

#### WEBCOR/OBAYASHI JOINT VENTURE - TRADE SUBCONTRACTOR'S APPRENTICESHIP REQUIREMENTS SUBCONTRACTOR #19 Τ

Subcontractor Name		
CRAFT (i.e. Carpenters)	List Minimum Apprentice Ratio (As required by registered Apprenticeship program for Craft)	List Maximum Apprentice Ratio (As required by registered Apprenticeship program for Craft)

## SUBCONTRACTOR #20

Subcontractor Name	

CRAFT (i.e. Carpenters)	List Minimum Apprentice Ratio (As required by registered Apprenticeship program for Craft)	List Maximum Apprentice Ratio (As required by registered Apprenticeship program for Craft)	



# MONTHLY

## TRADE SUBCONTRACTOR AFFIDAVIT

TRADE PACKAGE NO.:\_\_\_\_\_

## I, \_\_\_\_\_\_ declare under penalty of perjury that:

1.	I am the	of		and I am responsible
		(Owner, Officer, Partner)	(Company)	-
	for the p	ayment of persons employed by		who performed work on
			(Company)	I
	the		, in the clas	sification(s) of
	(1	Project)	,	

2. \_\_\_\_\_ The apprenticeship committee(s) either denied or failed to respond to our request for the dispatch of apprentices, and therefore all workers were classified as journeymen for the following crafts: \_\_\_\_\_\_

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L	,	Ľ

During the previous monthly period \_\_\_\_\_

(month)

The required number of apprentices by craft listed and initialed below have been employed according to the minimum and/or maximum requirements as required by the regulating documents for the previous period. (Attach backup demonstrating compliance for period referenced above)

CRAFT	IN COMPLIANCE (Y/N)	BACKUP ATTACHED (Y/N)

Or

Provide a plan to satisfy this requirement by the end of the project without exceeding the maximum number of apprentices on a daily basis.

This document must be submitted and approved, with backup if required, prior to submittal and subsequent approval of the next billing period's progress billing.

Executed this \_\_\_\_\_ day of \_\_\_\_\_\_, in \_\_\_\_\_, CA.

(Signature)



# FINAL

## TRADE SUBCONTRACTOR AFFIDAVIT

TRADE PACKAGE NO.: \_\_\_\_\_

## I, \_\_\_\_\_\_ declare under penalty of perjury that:

1.	I am the	of		and I am responsible
		(Owner, Officer, Partner)	(Company)	-
	for the pa	yment of persons employed by		who performed work on
	×.		(Company)	I
	the		, in the clas	sification(s) of
		(Project)	,	

- 2. During the payroll periods commencing on \_\_\_\_\_\_ and ending \_\_\_\_\_\_, all persons employed by my company on this project have been paid the specified general prevailing rate of per diem wages for the specified craft or classification pursuant to Labor Code §§ 1771 and 1813.<sup>1</sup>
- **3.** \_\_\_\_\_ The apprenticeship committee(s) either denied or failed to respond to our request for the dispatch of apprentices, and therefore all workers were classified as journeymen.

Or

The required number of apprentices by craft listed and initialed below have been employed according to the minimum and/or maximum requirements as required by the regulating documents.

CRAFT	IN COMPLIANCE (Y/N)

Executed this	_ day of	_ 201, in	, CA.
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## This document must be submitted and approved prior to final retention payment.

## (Signature)

<sup>1</sup> Except for public works projects of one thousand dollars (\$1,000) or less, not less than the general prevailing rate of per diem wages for work of a similar character in the locality in which the public work is performed, and not less than the general prevailing rate of per diem wages for holiday and overtime work fixed as provided in this chapter, shall be paid to all workers employed on public works.

This section is applicable only to work performed under contract, and is not applicable to work carried out by a public agency with its own forces. This section is applicable to contracts let for maintenance work.



# Exhibit R

# Survey Information





851 NAPA VALLEY CORPORATE WAY ■ SUITE G ■ NAPA, CALIFORNIA 94558-7551 PHONE: 707 255 2729 ■ FAX: 707.255.5021 ■ WWW. CHAUDHARY.COM

IN

December 27, 2011 #11-03-014

Mr. Rick Buellesbach Senior Project Manager - Transbay Transit Center Webcor/Obayashi Joint Venture 175 Beale Street San Francisco, CA 94105

> Re: Subject:

ASSOCIATES.

Transbay Transit Center Quality Control SurveysDecember 2011 Control Verification Survey Results

Dear Mr. Buellesbach:

The field work for subject surveys was conducted by Chaudhary & Associates December 5 - 8, 2011. The surveys included verification of Chaudhary & Associates control (as shown on the Survey Control Plan dated 11-10-2011), with the exception of control point 217 which was destroyed sometime between the November 2011 and December 2011 control verification surveys.

Horizontal control values for point numbers 54, 208, 209, 213, 101, 105, 215, and 227 were constrained in this control network horizontal adjustment. The elevation values remain unchanged from the November 2011 surveys. The table below shows both the 11-10-2011 and the 12-21-2011 values for the remaining control points. Because data values can be impacted by environmental factors (temperature and humidity), seismic activity, and the various combinations of back sight and foresight data available on any given day, only the values which differ by 0.01' or more are adjusted and shown on the following table (and updated on the 12/2011 control map to be sent to you tomorrow). Field note copies and Star Net Reports have been mailed to you.

#### Horizontal Values

Point	November 10, 2011		December 2011		Description
#	Northing	Easting	Northing	Easting	••••••••••••••••••••••••••••••••••••••
79	2115835.42	6013588.51	2115835.43	6013588.49	Fnd Mag+Shnr on TC
205	2115091.66	6013145.43	2115091.66	6013145.42	Mag Nail
221	2115642.30	6013753.17	2115642.32	6013753.18	Fnd Scribed-X KCA #4
223	2115654.49	6014255.95	2115654.48	6014255.95	Fnd Scribed-x KCA 9605
224	2115924.30	6013990.82	2115924.30	6013990.81	Cut-X
225	2115838.99	6014083.47	2115838.98	6014083.47	Fnd Scribed-X KCA 9761
229	2115259.63	6013325.88	2115259.62	6013325.87	Mag+Wshr

Please feel free to call me at (707) 255-2729 any questions or comments.



Sincerely, CHAUDHARY & ASSOCIATES, INC. A California Corporation

Helmut R. Korstick, PLS 7739 Project Surveyor





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APPROVED: APPROVED: PROJECT MANAGER APPROVED: PROJECT SURVEYOR DESIGNED BY: H. KORSTICK DRAWN BY: H. KORSTICK SCALE: 1"=60' SHEET NUMBER 1 OF 1	CONTRACT NO. 08-04-CMGC-000 PROJECT THE TRANSBAY TRANSIT CENTER PROGRAM	NO.DATEDESCRIPTIONBY05-4-2011INITIAL CONTROL DRAWINGHRK15-13-2011ADD NOTES AND VALUES REGARDING CONTROL POINT 101HRK25-16-2011CORRECT GRAMMAR IN SURVEY PROCEDURES STATEMENT 1HRK36-1-2011DELETE CP-210 AND ADD CP-217HRK	TRANSBAY J
ARVI ARVI HELL PARVISION CHECKE PREVISION 7	SAN FRANCISCO, CA	3       9-14-2011       ADD CONTROL POINTS 220-226 AND DELETE CP 211 & 216       HRK         4       9-14-2011       EDIT VALUES FOR CONTROL POINT 200       HRK         5       10-5-2011       EDIT VALUES FOR POINTS 58, 200, 203, 212, AND 217.       HRK         5       10-5-2011       ADD CONTROL POINTS 227-229.       HRK	ANGINEERS SURVINAPA, CALIF
N K. CHAUDHARY N K. CHAUDHARY MUT R. KORSTICK B BY: 2	SHET THE SURVEY CONTROL AND CONCEPTUAL GRID AND CENTERLINE PLANS AND NOTES	6       12–23–2011       ADD CONTROL POINT 233 AND REVISE VALUES       HRK         7       REVISE VALUES TO READ TO NEAREST 0.01'       HRK	THE AUTHORITY

## EXHIBIT "S"



## Transbay Transit Center – San Francisco, CA

## Traffic Control Plan

Webcor/Obayashi WO-TCP0001 REVISION 1 3/15/2012

## GENERAL

The Webcor/Obayashi Joint Venture (W/O) Traffic Control Plan that will be implemented on the Transbay Transportation Center Project is an overall project policy, with each trade subcontractor contributing their specific plan as they come on board to the project. The primary function of this plan is to provide a framework to insure compliance with Specification Section 01 15 70. To assist in this effort, W/O has enlisted the services of a traffic control consultant (TCC) – Sandis Engineering. Award of this contract between Sandis Engineering and W/O was based on a competitive request for proposal (RFP) process referred to as TG05.4.

TCC is responsible for participating in all aspects of traffic control planning and implementation including, but not limited to:

- Traffic control design oversight;
- Coordination between trade subcontractor traffic control designs;
- Interface with City of San Francisco and other agencies as necessary;
- Participate in coordination efforts of the TJPA Representative;
- Oversight of implementation of approved traffic plans;
- Provide daily reports regarding status of traffic control measures;
- On call traffic control services as requested.

## TRAFFIC PLAN REVIEW AND COORDINATION

TCC shall prepare a detailed "as built" traffic plan for approximately four blocks in all directions from the jobsite. This map will be based on SFMTA maps and will be augmented as appropriate per field review of existing conditions. This map will include all striping, signage, curb lines, curb cuts, curb painting, buildings and any other feature of the street layout and traffic control. Beyond the four block distance, the map will include street layout and striping configuration.

Once a trade subcontractor is under contract, W/O shall provide the trade subcontractor with the as-built plan in CADD format. The trade subcontractor will then be required to use this base map for preparation of all their traffic control plans.

The trade subcontractor is required to prepare and submit a complete traffic plan consistent with requirements of the project specification and all requirements per the City of San Francisco. The submittal must be made in a timely fashion to allow for the review timeframe prescribed in the specifications plus an additional four weeks for review by the TCC.

Upon receipt of the submittal from trade subcontractor, W/O will forward it to the TCC for review. The plan will be reviewed for adherence to specifications and for compatibility with previously submitted plans. Comments will be returned to the trade subcontractor who will make modifications as is appropriate.

When the trade subcontractor's traffic control plan is reviewed and coordinated with the TCC, it will be submitted to the TJPA Representative for approval. Submittal will be in compliance with Specification Section 01 15 70, paragraph 1.4B.

Upon approval by the TJPA Representative and SFMTA, the TCC will update the baseline traffic control plan as appropriate. The baseline plan will be updated only when a change to the traffic pattern will be in place for three or more months. If the traffic control plan will be in place for less than three months, the plan will be superimposed over the base map for coordination but the baseline drawing will not be modified.

## FIELD IMPLEMENTATION

It is intended that the TCC will maintain a regular, but not full time, presence on site. Similar to the traffic control design review, their scope of work is to review the trade subcontractor's adherence to city standards, project specifications and approved traffic control plans.

TCC review and assistance in in field coordination includes but is not necessarily limited to:

- Perform site review of traffic control;
- Note traffic control deficiencies;
- Coordinate correction of site deficiencies with W/O and trade subcontractor;
- Provide daily report of traffic control observations and corrective measures;
- Attend site meetings as necessary to review short term Special Traffic Permit and coordinate between subcontractors and SFMTA;
- Miscellaneous coordination with SFMTA as necessary;
- Review of pedestrian protection as it relates to vehicle traffic;
- Provide traffic control devices and personnel as required to augment traffic control efforts;
- Confirm proper training of subcontractor flagging personnel;
- Provide continuous oversight of traffic control for major construction operations as determined by CM/GC.

## TASKS NOT CURRENTLY ANTICIPATED BY TCC

Training of flaggers for the trade subcontractors although it is an option should it become apparent that subcontractor employees need additional training.

Coordination of the 10b police officers between subcontractors will be the responsibility of the CMO.

Pedestrian control unless it is specifically impacted by vehicle traffic.



## QUALITY COMMISSIONING PROCEDURES AND GUIDELINES Exterior Skin and Waterproofing Systems

## EXHIBIT "W"

The information, processes, techniques, material and other matters contained in the Quality Commissioning Procedures and Guidelines are proprietary, confidential, and unique to WEBCOR/OBAYASHI.

## The Quality Commissioning Procedures and Guidelines shall only be used for WEBCOR/OBAYASHI only.

Any other use without the expressed written consent from an Officer of WEBCOR/OBAYASHI is prohibited. Any unauthorized use could give rise to liability under the California Civil Code Sections 3426 et seq. involving Uniform Secrets Act, the California Business and Professions Code Sections 17200 et seq. involving Unfair Competition and 17500 et seq. involving Unfair Practices, the common law of unfair competition and interference with contractual relations and prospective advantage.

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## QUALITY COMMISSIONING PROCEDURES AND GUIDELINES Exterior Skin and Waterproofing Systems

- ✓ Roofs
- ✓ Decks
- ✓ Windows
- ✓ Curtain Walls
- Exterior Wall Systems (Precast, Stucco, EIFS, GFRC)
- ✓ Water Shedding Systems

- ✓ Flashings
- ✓ Expansion Joints
- ✓ Caulking, Sealants
- Primary and Secondary Water Barrier Systems
- ✓ Above & Below Grade Waterproofing
- ✓ General Waterproofing Systems

## 1.0 Purpose

The purpose of this procedure and guideline is to set forth a commissioning process, which will ensure that the building's exterior envelop and waterproofing systems perform and function in conformity with design intent and to provide a means of verifying the implementation of these systems based on the project specifications, design and applicable industry standards.

## 2.0 Definition of Commissioning

The term "Commission" refers to a Quality Assurance process by which the building's exterior envelop and waterproofing systems (i.e., below and above-grade waterproofing, decks, roofs, caulking, plaster, precast concrete and GFRC, curtain-wall, flashing, expansion joints, etc.) are provided, installed and tested in order to verify the systems perform in accordance with the contract documents and the design intent.

Commissioning entails the development of a clear and complete process that verifies the systems design and operational intent. It also is to verify that the exterior envelop and waterproofing systems and its components are installed according to the contract documents, manufacturer's recommendations and published industry standards and that the system receives adequate installation and performance inspections by the installing contractor.

The process must include verifying and documenting the installation steps, phases, and system performance with respect to the design intent and the contract documents. Commissioning is a team effort that requires cooperation by all parties to succeed.

## 3.0 Description of the Commissioning Process

Commissioning is a "**systematic**" process for achieving, validating and documenting the performance of building systems as so that it meets the design intent and requirements.

The process extends through all phases from design to occupancy, and extending through the warranty period. Numerous checks and inspections shall be performed at each stage of the process to ensure that established procedures are followed. The process also includes training of facility operational personnel to ensure continued efficient use of the exterior envelop and waterproofing systems as originally designed and installed.

This guideline provides a uniform, integrated and consistent approach for the commissioning of all waterproofing systems as well as assisting in insuring product and design compatibility. Since many building waterproofing systems are integrated, a deficiency in one system or component may result in sub-optimal performance and failure among others.

## 4.0 Commissioning Plan

Commissioning is a "Quality Process" for validating the system and component design performance.

The reports from the commissioning process are not just test reports, but reports that document design, installation, inspections, and particular tests and or evaluation procedures. The commissioning plan is continually updated to reflect changes in program and design of the waterproofing system(s). Commissioning reports shall document and record the results of the commissioning process.

Each Trade Subcontractor's specific commissioning plan must be neatly organized in a consistent manner that reflects the nature of the building systems and their performance. The commissioning plan shall include schedules, requirements and procedures.

Trade Subcontractor(s) shall be responsible for the timely and efficient completion of all commissioning in accordance with the Subcontract Agreement.

# At no time shall any work be permitted to commence without a WEBCOR/OBAYASHI' approved Trade Subcontractor Waterproofing Commissioning Program.

Failure to do so may require Trade Subcontractor to assume all related costs and expenses in accordance with the Subcontract Agreement.

In addition, Trade Subcontractor may also be required to assume all related cost should WEBCOR/OBAYASHI find it necessary to develop, manage and or perform any Trade Subcontractor commissioning work.

## 5.0 Objectives

The fundamental objectives of the commissioning process are:

5.1 Create a procedure to verify and provide documentation that the waterproofing performance of the facility meet the design requirements.

- 5.2 Enhance communication by documenting data and decisions throughout all phases of the project.
- 5.3 Validate and report that the performance of waterproofing systems meets design intent.
- 5.4 Provide a means of Quality Control and Quality Assurance (QA/QC) throughout all phases of the waterproofing system(s) installation, inspection, and testing process.

## 6.0 Contractors Normally Participating in the Commissioning Process

- ✓ Waterproofing Consultant
- ✓ Architect
- ✓ Structural Engineer
- ✓ Mechanical
- ✓ Plumbing
- ✓ Electrical
- ✓ Fire Sprinkler
- ✓ Glass Systems
- ✓ Caulking
- ✓ Brick, Tile, Precast, GFRC, and Stone
- ✓ Fountains and Ponds
- ✓ Swimming Pools & Spas
- ✓ Roofing
- ✓ Insulation
- ✓ Flashing & Sheetmetal
- ✓ Waterproofing Contractors
- ✓ Concrete (If waterproofing admixtures are included by design)
- ✓ Stucco, EIFS, DEFS systems
- ✓ Elastomeric Painting
- ✓ Rough Carpentry (Wood cladding)
- ✓ Architectural Metal Cladding
- ✓ Expansion Joint Systems
- ✓ Water Tanks
- ✓ Special Systems or Components

## 7.0 Commissioning Team

The commissioning team members may consist of the following:

✓ WEBCOR/OBAYASHI - Project Team as required

- ✓ Owner Designated representative of the owner, building operator/engineer, and/or the owner's construction management firm
- ✓ Engineers Architect and Designers
- ✓ Waterproofing Contractor
- ✓ Waterproofing Consultant
- ✓ Flashing / Sheet Metal Contractor
- ✓ Exterior Skin Contractor
- ✓ Roof Contractor
- ✓ Glass and Curtain Contractor
- ✓ Caulking and Sealants Contractor
- ✓ Commissioning Agent (CA)
- ✓ Mechanical Contractor
- ✓ Plumbing Contractor
- ✓ Fire Sprinkler Contractor
- ✓ Electrical Contractor
- ✓ Testing Contractor
- ✓ Other as necessary

## 8.0 Meetings

Regularly scheduled commissioning meetings of **the entire team** shall be conducted for site coordination, communicating issues of concern, resolving conflicts, reporting on system process and status, identifying urgent work and all deficiencies.

Commissioning meetings are critical to the **Quality** of the commissioning process as well as timely completion of the project.

## 9.0 Trade Subcontractor Performance Requirements

- 9.1 Designation of the primary person who will be responsible, accountable, and act as the main contact person for all commissioning communications. Provide organizational chart indicating personnel who will be involved in the project. The chart should indicate factory, office, and on-site field personnel.
- 9.2 Review of drawings and specifications for completeness, appropriateness of details, and acceptance by Trade Subcontractor thereof.
- 9.3 Review WEBCOR/OBAYASHI standard details.
- 9.4 Preparing and submitting documentation of Trade Subcontractor's respective materials and systems to be integrated into the overall Commissioning Plan.
- 9.5 Submitting information on the intended commissioning protocol used on materials, and the integration into the system as a whole.
- 9.6 Provide a presentation of the commissioning process to WEBCOR/OBAYASHI, the Owner and or the owner's representatives. Demonstration shall indicate compliance with the Trade Subcontractor Commissioning requirements as outlined in this document.
- 9.7 Submitting shop drawings detailing waterproofing system layout as outlined in the contract documents. Shop drawings shall reflect all conditions present in the building, including but not limited to the following:
  - a. Conditions where different materials meet (i.e. windows to plaster or stone to plaster).
  - b. Corner conditions.
  - c. Conditions where vertical planes meet horizontal planes (i.e. soffits and sills).
  - d. Expansion joints and control joints.
  - e. Flashing.
  - f. Penetrations (i.e. Z-ducts, electrical outlets, louvers).
  - g. Conditions typically utilized by Trade Subcontractor's common practices.

Shop drawings shall include installation drawings indicating the planned sequence of installation of all components.

- 9.8 Providing means and method for preliminary testing of the exterior envelop and waterproofing systems with manufacturer's representative present as required:
  - a. Caulking: Include complete coordination with the caulking manufacturer's representative to assure compatibility of the caulking system with the

surrounding substrate and finishes. Trade Subcontractor shall submit caulking samples including manufacturer's specifications for materials, color, cleaning procedure, required primers, proper backer rod, installation procedures, testing requirements and results. Testing of caulking samples between all combinations of materials shall be performed by qualified testing agencies in direct accordance with A.S.T.M. Standard Test Method C794 (75), including seven (7) day immersion. A letter from the Caulking Manufacturer shall be submitted approving all testing procedures, the installation procedure and the use of the specified materials for the intended application. Any materials installed without such approval that may be in conflict with the approved procedures or of unacceptable color and appearance will be removed and replaced at the Trade Subcontractor's expense.

- b. Windows and Sliding Glass Doors: Assemblies shall be field tested in accordance with American Architectural Manufacturers Association (AAMA) 502-02 Voluntary Specification for Field Testing of Windows and Sliding Glass Doors using Test Methods A and B, testing a minimum of 1% of the products for air leakage resistance and water penetration resistance as specified for various stages of the product installation.
- 9.9 Reviewing all required testing under the witnessing of WEBCOR/OBAYASHI, Building Owner, and or the Owners representatives.
- 9.10 Correcting all system deficiencies at Trade Subcontractor expense.
- 9.11 Obtaining all required permits, code required inspections and final certifications.
- 9.12 Preparing complete as-built record drawings made from an original set that has been marked up throughout the duration of the project. Drawings must indicate all work as it was actually installed showing change order revisions, field changes required to meet the working conditions, and any other items that will affect or reflected in the operation and maintenance of the facility.
- 9.13 Obtaining all manufacturer's warranties and guarantees.
- 9.14 Organizing the O&M manuals, if any, from suppliers and manufacturers.
- 9.15 Performing any specified training for the facility's operational staff.

### **10.0** Information Management

The management and continued organization of the commissioning information shall be the sole responsibility of the Trade Subcontractor.

WEBCOR/OBAYASHI and the Trade Subcontractor shall mutually agree on the location were all the commissioning information and documentation shall be stored.

The Trade Subcontractor shall make every effort to continually update and manage the information throughout the commissioning process. WEBCOR/OBAYASHI and the Building Owner may review the commissioning information provided by the Trade Subcontractor at any time for updates, accuracy and completeness.

WEBCOR/OBAYASHI may elect to withhold or make appropriate adjustments to the Trade Subcontractor's monthly progress billing in the event the commissioning information or performance requirements as described in the Waterproofing Quality Commissioning Procedures & Guidelines are not being performed, managed and updated by the Trade Subcontractor.

## 11.0 Trade Subcontractor Commissioning Submittal Requirement

Each Trade Subcontractor has a responsibility to WEBCOR/OBAYASHI and the Building Owner to comply with the terms of the contract and to verify that the design intent of the waterproofing systems for the project is achieved.

Each Trade Subcontractor is required to provide two completed commissioning manuals containing the information outlined in Section 19 - Commissioning Binder Tab Index of this guideline. Each proposed formatted "3-ring" binder containing all information, including blank forms shall be provided to WEBCOR/OBAYASHI and the Owner for "**review and comment**" before the commissioning process begins, or by an agreed upon date.

WEBCOR/OBAYASHI, the Owner and the owner representative shall review the information and return it to the Trade Subcontractor within **two-week** time with all comments.

Each Trade Subcontractor shall make all required changes as agreed, to the commissioning manuals and resubmit them to WEBCOR/OBAYASHI within **two-weeks**.

Each Trade Subcontractor shall schedule and provide a formal demonstration of their commissioning process to WEBCOR/OBAYASHI, the Owner and the Owners representative after all required changes to the manuals have been satisfactory completed. Demonstration shall indicate compliance with the Trade Subcontractor Waterproofing Commissioning requirements as outlined in this document.

Each Commissioning Manual **shall be neatly organized** using appropriate tabs, dividers, table of content, index, etc. as required for easy referencing. Refer to Section 19 Commissioning Binder Tab Index for a standard binder organization. All Commissioning Manual(s) **must be user friendly**.

## 12.0 Commissioning Binder Tab Index

- Tab 1.
   Project design criteria specifications Provide information that describes the overall design criteria and performance requirements for the waterproofing system(s).
- Tab 2.Manufacture products and components Provide complete submittal list<br/>of all components that shall be contractually provided and installed.
- Tab 3.Manufacture installation instructions Provide manufacture<br/>documentation insuring that the system and components installation<br/>complies with all Manufacture requirements to maintain performance and<br/>guarantee obligations.
- Tab 4.
   Manufacture details Provide manufacture details or published industry standards for penetrations and terminations interfacing with other installed systems.
- Tab 5.Design transition review Provide design review comments and<br/>concerns on transition interfaces to other s or other compatibility issues.
- Tab 6.Quality Assurance / Quality Control Program Provide QAQC program<br/>with complete field inspections and checklists.
- Tab 7.
   Documentation Trade Subcontractor shall maintain a separate field binder documenting the QAQC inspections and field-testing for all installed work.
- Tab 8.Field mock-up and testing Provide information on mock-up or field<br/>performance tests that shall be preformed for all installed system(s).<br/>Provide manufacture recommendations or published testing standards<br/>used. If no performance testing is preformed, Trade Subcontractor shall<br/>provide documentation on how each system is performing in accordance to<br/>the documented design intent and contract warranty requirements.
- Tab 9.Schedule Provide schedule for, shop drawing devolvement, submittals<br/>fabrication, delivery and installation.
- Tab 10.Agency and factory test reports Provide all factory, agency, and field<br/>performance-testing reports on installed systems.
- Tab 11.
   Factory and Trade Subcontractor guarantee information Provide warranty responsibilities and durations for all systems and components installed.
- Tab 12.Owner Training Provide (O&M) and training for all required service and<br/>maintenance requirements as it extends throughout each system to<br/>maintain warranty. Include owner sign-off sheets verifying training.

- Tab 13.Attic Stock Provide list of spare material that shall be supplied by Trade<br/>Subcontractor to owner Paint, applied materials, gaskets, handles,<br/>glazing, or patching products.
- Tab 14.
   As-Built Drawings Provide completed set of drawing and details accurately reflecting all installed and completed work.
- Tab 15.
   Material Safety Data Sheets Provide all Material and Data Safety Sheets (MSDS).

## 13.0 Identifying the Defects

It is the intent of the commissioning process to avoid defects in waterproofing systems. A standard of care exhibited during the commissioning process should anticipate potential defects and determine appropriate solutions prior to the installation of these systems. In the event that defects do occur, proper defect identification will help determine the repair needed and assist in selecting the appropriate method and materials.

It is important to acknowledge which factors have caused deficiencies in the waterproofing system and its components, and how a deficiency in one system may influence or amplify another. Careful and thorough defect identification is critical to obtain long-lasting, quality repairs. It is critical and necessary to eliminate the cause of the defect and not solely treat the symptom.

Each Trade Subcontractor shall be responsible for determining the cause and origin of various problems as it pertains to their contractual scope of work. Failure to do so may require Trade Subcontractor to assume all related costs and expenses for damages, repairs performed by others, testing, special inspections, and consultant fees.

#### 14.0 Applicable Industry Standards

Unless the Contract Documents include more stringent requirements, applicable published construction industry standards shall be utilized. Where compliance with two or more standards is specified for quality or quantity levels, comply with the most stringent requirement.

Where sections of the specifications require that a product, material, installation, or test complies with a specified industry standard, the Trade Subcontractor shall obtain copies directly from the publication(s) source and include the information in the submitted commissioning information.

Each Trade Subcontractor engaged in construction on the project must be familiar with published industry standards applicable to their construction activity.

## 15.0 Schedules

An initial schedule shall be developed by the Trade Subcontractor identifying dates, times, and durations for shop drawings, approval of submittals, material fabrication, product delivery, acceptance, installation, testing and completion.

The schedule shall also include any commissioning task that shall be performed on waterproofing systems that may involve or affect other related building systems.

Each Trade Subcontractor shall update schedules, daily, weekly, monthly, or as required to keep WEBCOR/OBAYASHI and the Owner informed of the activities performed. This schedule will indicate appropriate milestones during the installation to allow WEBCOR/OBAYASHI and or the Owner the ability to observer and witness system installations prior to being cover up by subsequent s. The schedule will indicate milestone dates for Trade Subcontractor inspection and testing.

## **16.0** Execution of Inspections and Checklists

Trade Subcontractor and or vendors shall schedule initial inspections and checklist review with the commissioning team. The inspections and reviews shall be directed, executed, and documented by the Trade Subcontractor or vendor.

To document the process, the Trade Subcontractor performing the task shall provide and complete all documentation forms and checklists. (See attached sample checklist)

#### 17.0 Field Inspections

One of the most important commissioning activities for waterproofing systems is field inspections. The field inspection process shall serve as a method and means of documenting the installation process as well as indicate variations between contractual design and construction.

Each Trade Subcontractor shall identify in detail the scope of their field inspections, and the types of field procedures that will be required to obtain the necessary information to provide a complete waterproofing quality control evaluation at the completion of the job.

#### 18.0 Field Witnessing of Trade Subcontractor's Quality Control

WEBCOR/OBAYASHI, the Owner, consultants and the Architect reserve the right to witness the waterproofing system installation at any time. Spot checks shall be conducted on a random basis. If inconsistencies are discovered in quality, performance, or if commissioning information differs from those submitted, the Trade Subcontractor may be required to completely remove and remedy all conditions where the inconsistencies occurred at no additional cost or impact to the schedule.

Witnessing shall include all or part of, but not limited to the following:

- 14.1 Mock ups
- 14.2 Waterproofing component and system installation
- 14.3 System inspection and checks
- 14.4 Performance tests

## 14.5 Special Inspections

## 19.0 Documentation

Trade Subcontractor shall maintain a separate field binder documenting quality control inspections and field-testing for all installed work. Documentation shall include dates, quality control field checklist, reports with inspected locations defined by grid lines and elevations. Provide a dated photo log, documenting inspected areas and general sequence of installed work for the duration of the project.

## 20.0 Testing and Methods

The objective of field-testing is to correlate paths of moisture infiltration and to observe the source of damages. Moisture entering a building during extreme weather may be obvious, but the most reliable method to discover the infiltrating path is to recreate the leakage condition in a controlled manner. Testing also allows verification of the theory for the cause of leakage.

As all system and component tests are unique to some degree, there may not be one standard or method for testing that can be applied to all. There are several methods, standards, governing requirements, and manufacture recommendations, etc., which should be applied.

There are three types of acceptable testing methods that can be used during the investigation. All of which must be approved by WEBCOR/OBAYASHI. These testing categories include:

- ✓ Non-Destructive Testing
- ✓ Destructive Testing
- ✓ Laboratory Testing
- 20.1 Non-Destructive Testing

Non-destructive testing uses a variety of non-invasive tools. This type of testing causes little or no damage or interference to the building envelope. The various methods of non-destructive testing include:

- a. *Rilem Tube* This calibrated device is adhered to exterior masonry walls to determine the porosity and condition of brick masonry units, mortar joints, head joints, and embedment joints.
- b. *Water Spray Rack (ASTM E1105)* This test simulates a wind-driven rain condition on a facility. It can assist in determining the specific cause and origin of moisture infiltration when it is used to test independent components of the envelope. Spraying water over a large area in an uncontrolled fashion will not reveal specific causes of water infiltration.
- c. *Hose Spray Test (AAMA 501.2)* This test method also simulates winddriven rain in small segmented areas using a standard garden hose in which a calibrated nozzle is attached with a pressure gauge. The spray is

directed at a specific joint, crack, or defect to reveal potential moisture intrusion.

- d. Differential Pressure Test (ASTM E1105) A pressure chamber is constructed on the interior of the facility at a specific location to test moisture driven through an assembly or component. The assembly or component is subjected to a negative force while simultaneously a spray rack is directed at the assembly to draw the moisture into the facility to simulate a negative pressure under a wind-driven rain condition.
- e. Infra-Red Thermography Infra-red Thermography photographs the building exterior to determine the locations of wet components. Components, such as insulation and sheathing, etc., will act as heat sinks if they contain high levels of moisture. During the day, moist and dry components absorb heat. At night, the moist areas release the heat much slower than the dry areas. By reading the heat signature, Infrared Thermography will help expose the problem areas. Small test cuts may be required to verify moisture areas.
- f. Soundings (ASTM D4580) There are different ways to perform sounding tests including the hammer tap test. In this test, a 16 oz. hammer is tapped against concrete for sound. A hollow sound indicates areas where the concrete has separated from the reinforcing steel, typically due to exfoliation or corrosion of the steel. Another method of sounding is to chain drag a heavy 15 ft. link chain along a concrete surface to listen for hollow sounds, indicating defective concrete. This method can cover larger areas effectively and is commonly used on parking garages and loading docks.
- g. Pachometer Survey This test uses a magnetic device used to locate embedded steel reinforcement and help determine the concrete cover over the reinforcement. Generally, the Pachometer is fairly accurate when measuring ¼ inch to 3-inch thick concrete cover and when reinforcing placement is not too congested.
- h. *Poly-sheet Tape-down* This test determines the presence of moisture coming through a concrete surface, typically a slab-on-grade type of assembly where the typical problem is tile or membrane separation from the floor. A 2' x 2' section of polyethylene is sealed to the concrete with duct tape and removed 24 hours later. If there is moisture beneath the polyethylene, it is a good indication that there is a vapor drive through the concrete section.
- i. *Glass-Slide Epoxy or Crack-o-meter* This device is sealed in place over a crack and periodically checked to determine if any movement has occurred. If movement has occurred, the glass will crack or the meter will record movement.
- j. Optical Illuminated Boroscope A boroscope is inserted into a 5/8-in. diameter pilot hole through an exterior wall system and allows the cavity walls of brick veneer, stud wall backup of exterior insulated finish systems (EIFS), or other types of constructions to be observed without large-scale destructive testing.

- k. *Smoke/Dust Tracer* The smoke/dust tracer helps to find air infiltration. It is moved across the interior face of a window to observe the smoke and dust particles coming through the assembly.
- I. *Moisture Meter* A Delmhorst meter is a digital device that detects the presence of moisture in various building components. This test is typically accompanied by a gravimetric analysis (oven drying of samples), which is used to confirm the results of the Delmhorst meter.
- m. *Flashlight and mirror* These simple tools can be very useful to detect problem areas. Placing the mirror into the plenum or behind difficult-to-access areas with the flashlight will allow observation of concealed conditions.
- 20.2 Destructive Testing

When the main objective is to determine the existing composition and configuration of concealed assembly conditions, destructive testing may be warranted. The most common methods of destructive testing are test cuts and borings.

Any type of destructive testing must be reviewed and approved by WEBCOR/OBAYASHI.

- a. Roof Testing Test cuts in the roof assembly may be necessary to determine the condition of the underlying insulation and substrate. Cutting into the system may help verify whether roofing problems are causing corrosion of the steel deck, or a spalled and cracked concrete deck, etc. Test cuts may also expose the as-built configurations of the flashing components at roof-to-wall locations, curb locations, etc. This information is critical to the appropriate remedial design and/or repairs.
- b. *Exterior Wall/Skin Testing* Test cuts on exterior walls may be required to identify the origin of moisture infiltration. For masonry walls, it is most effective to make test cuts at window heads and sills, and at any through-wall flashing locations that may be suspected of allowing moisture intrusion. Masonry test cuts may expose defective through-wall flashing that is allowing moisture intrusion. Test cuts may also help determine the underlying conditions of the steel components in wall systems, including wall ties, reinforcing steel, sub-steel columns, etc.
- 20.3 Laboratory Testing

Destructive testing is also used to obtain samples for lab analysis. Samples of sealants, coatings, painted finishes, roofing materials, etc. can be sent to a laboratory to determine the presence of lead or asbestos. Samples of masonry or concrete can also be tested to help identify causes of moisture/air infiltration (descriptions of these analyses follow).

Laboratory testing may help obtain a better understanding of existing material types, presence of contaminants, and the possibility of hazardous components.

This type of testing can also provide valuable information concerning proper surface preparation, material selection, and implementation of repairs. The following laboratory tests are some of the more useful when performing building envelope evaluations:

- a. *Gravimetric Analysis* This test will determine moisture content. After weighing and recording the in-situ existing sample, completely dry the sample in an oven and re-weigh it. The weight difference indicates moisture content and is particularly useful for insulating materials. Testing moisture contents of samples is critical to verify results from non-destructive moisture scans.
- b. *Petrography* Petrography determines the "make-up" of concrete. This test will indicate the size and type of aggregate, air/void ratio, type of cement, and general mix design data of the concrete. Most materials testing lab can perform this test.
- c. *Air Entrainment* Provides an indication of the existing concrete's durability and freeze-thaw resistance. Air entrainment is generally indicated by petrography.
- d. *Presence of Carbonization* Accomplished by spraying a solution of phenothelene on the concrete substrate and recording the depth of the solution's color change. This will indicate to what depth carbon dioxide has progressed into the concrete. Carbon dioxide will degrade the cement matrix of the concrete and lower the pH level of it. The layer surrounding the reinforcement is then destroyed, allowing corrosion of the reinforcing steel. Corrosion by carbonization usually occurs over a broad area.
- e. *Chloride Ion Content* Chlorides from marine atmospheres or mists from road salts entering the concrete substrate, and salts originally introduced to the concrete via admixtures or aggregates can promote accelerated corrosion of reinforcing steel, usually at concentrated or specific locations. The chlorides are not consumed in the corrosion process but rather act as catalysts in the process. The corrosion will progress along the reinforcing bars causing concrete de-bonding, cracking, and spalling.
- f. *Reinforcement Placement, Depth, Quantity, and Type* This information may be established with the use of a Pachometer or similar electronic metal detector. It is useful in determining required steel replacement and structural capacities during engineering analysis phases.

## 21.0 Engineering Analysis

Using information obtained from the field, laboratory results, and collected data, a comprehensive engineering analysis may be required. The engineering analysis should include an assessment of field and laboratory data, structural analysis as well as the following:

- ✓ Thermal Analysis
- ✓ Drainage Analysis

- ✓ Vapor Drive Analysis
- ✓ Fire Rating Requirements
- ✓ Cost Estimations

## 22.0 Deficiencies and Non-Conformance

The Trade Subcontractor shall identify and list any outstanding deficiencies or procedures that were not completed successfully during any final testing. Documented deficiencies shall be submitted to WEBCOR/OBAYASHI within 48 hours of each test completion.

The Trade Subcontractor shall also provide in writing, the corrective action for each deficiency as required within 48 hours. The installing Trade Subcontractor and or vendor shall correct all outstanding issues or deficiencies in the materials or the installation of the materials and provide the commissioning team with dates and times for the required corrections and any re-testing.

## 23.0 Remedial Work

General considerations for the repair of defects and replacement of components should include the following:

- 23.1 Determine the effect, if any; the repairs have on the structure, surroundings, and operations of the building.
- 23.2 Ensure proper preparation of surfaces to be repaired and provide chemical and mechanical bonds for new materials.
- 23.3 Material selection should include an understanding of performance limitations and should rely on the products past acceptable performance. Material selections should include consideration of the following:
  - ✓ Compatibility
  - ✓ Maintenance
  - ✓ Life cycle

## 24.0 Project Commissioning Closeout

WEBCOR/OBAYASHI, the Owner, and/or the Owner's representative shall determine when the Trade Subcontractor commissioning process has been satisfactorily completed and when to submit the final report information and all other documentation to Webcor.

As part of the project turnover, the quality of all work will be reviewed to determine whether it is within specific and manufacturers' guidelines, industry standards, and code compliance.

WEBCOR/OBAYASHI, the Owner, and/or the Owner's representative consultant must be completely satisfied that the commissioning procedures have been performed accurately and professionally. In the event the commissioning information or performance requirements outlined in the Waterproofing Quality Commissioning Procedure & Guidelines have not been met, WEBCOR/OBAYASHI may elect to withhold or make appropriate adjustments to the Trade Subcontractor's final billing.