TG08.7 - Glass Floors

Questions are numbered in the order received. Numbers missing in the sequence either have been answered in a previous response set or will be answered in a future set.

Question	Submission	Drawing	Document/	Question	Response
No.	Date	No.	Spec. No.		
TG08.7- 003	2/17/2015	A1-2705	00 04 41 Pre-Bid Substitution Request 08 88 53	Please review the attached form 00 04 41 - Pre-Bid Request for Substitution.	Due to lack of current UL rating report, the system does not meet the specification requirements. The substitution request is rejected. Please refer to the attached comments on technical issues found within the information provided.

00 04 41 - PRE-BID REQUEST FOR SUBSTITUTION

During the bidding period, a proposed change by a bidder of a product, equipment, or service required by the Contract Documents is considered a pre-bid request for substitution. A pre-bid request for substitution will be considered as part of the questions on bid documents (QBD) process. Refer to the CM/GC's Bid Manual for QBD instructions and forms.

During the bidding period and prior to the deadline for the submission of QBDs, Bidders may submit a request for a substitution of an "or equal" product, equipment, or service specified in the Contract Documents by completing and submitting this form as an attachment to a QBD, in accordance with the QBD process. The TJPA will respond in writing to a pre-bid request for substitution in accordance with the QBD process and deadlines specified in the bidding documents.

Pre-bid requests for substitution requested during the bidding period and accepted by Addendum prior to
opening of bids are included in the Contract Documents. Does not have 2-HR UL approval
Spec. Section: 08 88 53 CLAZED FLOORS Date: 2 / 16 / 2015 Drawing Sheet, Al-2704, Al-2705, Al-2305 Paragraph(s): 2.2
Detail(s): $\sqrt{\frac{W-12}{W-13}}$
Proposed Substitution: SAFTI FIRST 2-HR FIRE RESISTING FLOOR SYSTEM
Manufacturer/Address/Phone: SAFTI FIRST/100 N HILL DR. STE 12, BRISBANE CA 94005/
Trade Name/Model No.: N/A PHONE: 888-653-3333
Product History: X New 2-5 years old 5-10 years old More than 10 years old
Differences between proposed substitution and specified product (attach required point-by-point comparative data):
SEE ATTACHED COMPARISON CHART.
Reason for not providing specified item:
SAFTI FIRST'S 2-HR FLOOR SYSTEM IS MADE IN THE USA AT OUR FACTORY
IN MERCED, CA. OUR CLASS AND FRAMING HAS A BETTER OVERALL DESIGN
AND IS EASIER TO INSTALL THAN THE SPECIFIED SYSTEM.
Similar installation where proposed substitution has been used (Project/Address/Architect/Owner/Date Installed):
N/A.
Proposed substitution affects other parts of the Work: NoX Yes: explain
SEE ATTACHMENT "CHANGES AND MODIFICATIONS TO OTHER WORK".
THE
Changes or modifications needed to coordinate other parts of the Work that will be necessary to accommodate the proposed substitution:
SEE ATTACHMENT "CHANGES AND MODIFICATIONS TO OTHER WORK".

Supporting data attached: X Product Data X Drawings Test Reports Samples
Manufacturer's Standard Form of Warranty or Guarantee
Other: COMPARISON CHART; EXPLANATION OF CHANGES AND MODIFICATIONS TO OTHER WORK.
MODIFICATIONS TO OTHER WORK.
The Bidder certifies that
• The proposed substitution has been fully investigated and determined to be equal or superior in all respects to the specified product.
 The proposed substitution conforms in all respects to the requirements of the Contract Documents and all applicable regulatory requirements and is appropriate for the application intended.
 The same warranty or guarantee for the specified product will be furnished for the proposed substitution.
 The proposed substitution does not affect dimensions or functional clearances.
Coordination, installation, and changes in the Work as necessary for accepted substitution will be complete in all respects.
Attachments

END OF SECTION 00 04 41

SPECIFICATION ISSUE LOG

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Revision	Date
0	August 11 2014



120 Minute Fire Resistive Floor Comparison

	SAFTI FIRST	TGP
Fire Rating	120 minutes	120 minutes
ASTM E-119 Heat Barrier	Yes	Yes
Origin for Glazing	Manufactured in California / USA	Imported
	Single glass unit comprised of	
	custom SuperLite II-XL 120 insulated	
does not specify the overall	with a tempered laminated walking	
thickness of the glass unit, or how many layers of glass.	surface and a structural steel framing	
ine in many layers of glase.	grid that contains electrical and	Separate glass units consisting of
	plumbing for a clean, seamless look.	Pilkington Pyrostop® 120 glass installed
	Both the glass unit and the structural	from below. A tempered laminated
	steel framing grid will be	walking surface glass will be installed
na.i.	manufactured and provided by SAFTI	from above on a steel framing grid by
Make-up	FIRST.	others.
Max. Panel Size	60" x 60"	48" x 50"
	Stainless steel, Painted steel or other	
Frame Finish	options desired.	Painted Steel
	The fire rated glazing and walking	
	surface will be installed concurrently	
	on the top-side rather than separate	
above?	glazing surfaces from about and	Fire rated glass is bottom-loaded with
	below the structural framing. This	the walkable surface top-loaded and a
	provides for easier installation and	10" air space between. This provides an
	subsequent repairs. A minimal	uncontrolled air space with substantial
	airspace between the fire rated glass and walkable surface is designed to	condensation problems. It is a very labor intensive system to install and will
Installation	eliminate condensation issues.	require constant maintenance.
	eliminate condensation issues.	Desiccant bags are placed in the 10" air
Does this statement mean factory-sealed?		space between the walkable surface and
mean factory coaled.		the fire rated glass and will have to be
		changed regularly through access panels
	The walkable surface is sealed with	in the system. We believe this to be
Condensation Control	the fire rated glass to make one	unworkable and there will be
Between Fire Rated Glass	single unit with a controlled air	condensation problems regardless, even
and Walkable Surface	space.	with constant maintenance.
	The floor system will accommodate	
	the structural steel rod assembly	
	termination points without	Structural steel rod assembly penetrates
	penetrating the fire rated glass	the fire rated glass system,
Structural Steel Rod	system, which keeps the fire rated	compromising the fire rated integrity of
Assembly	integrity intact.	the system.
	Designed to stop all leakage but can	
Leakage	be designed with draining to the	Designed to leak into the seismic joint
2		

Drainage channel is not an option.



	outside where required (the	
	expansion areas).	
Maintenance	 This design requires no maintenance: Stainless steel finish resists rust and other types of finishes can be provided. No desiccant bags are between the fire rated glass and walkable surface that need to repaired or replaced The glazing can easily be accessed in case of repair. Easy to perform electrical maintenance Easy to perform sprinkler maintenance 	Current design requires a lot of maintenance: Painted steel finish susceptible to rust Desiccant bags between the fire rated glass and walkable surface need to be replaced regularly. Difficult to remove the fire rated glass in case it needs to be replaced Difficult to perform electrical maintenance Difficult to perform sprinkler maintenance.
Additional Design	Our system is designed with room for an electrical box and can easily be prepared for fire sprinkler systems. It also is designed to hang fixtures, etc.	System must meet all subparagraphs of Specification Section 08 88 53 1.13
Warranty	5 years	5 years
Listing Agency	Successfully passed initial testing. Additional full assembly testing scheduled for the 1 st Quarter of 2015 and formal testing and listing scheduled for the 2 nd Quarter of 2015 with Intertek Testing Services.	System must hold a 2-HR fire rated UL Design Report. UL

To view photos of our fire rated installations, click here: http://safti.com/projects/#page:1





Changes and Modification to Other Work

We believe that the he GPX 120-minute glazed floor system is a great improvement over the current system. It offers cleaner design, easier installation and no maintenance. We anticipate that there will be changes and modifications to other work, engineering and to the design that will need to be worked out. The immediate differences that we anticipate are:

- The system proposed does not require desiccant bags between the fire rated glass and the walking surface that need to be changed or serviced, so the hinged access panels and the desiccant feed tubes to change the desiccant bags will be eliminated.
- This proposed design provides open access to the structural framing provided by SAFTI FIRST and allows the installation of the glass from above for easy installation and replacement should there ever be breakage. Our engineering team will coordinate any changes to the structural steel details with the architects, engineers and contractors as it relates to this fire rated floor system. We have extensive experience and involvement in design-build projects.
- This design provides for the the option of the electrical conduit, junction boxes and sprinkler system to be installed within the structural framing during the manufacturing process, reducing field labor and provides a clean aesthetic look.
- In this design, the fixtures will be hung from the concealed fixture box in the beams for easy access and repair.

We are a local company located in Brisbane, California. Our engineering and project management staff can easily attend any job site meetings or provide guidance during installation. Our manufacturing facility is located in Merced, California which is relatively close by to the Bay Area, and we invite the project architects, engineers and contractors to visit our manufacturing facility and to witness our planned additional testing and tour the facility where the system will be built. We believe this would greatly help to better evaluate our capacity, engineering skills and capabilities.

To view photos of our fire rated installations, click here: http://safti.com/projects/#page:1

SAFTIFIRST 120 MIN. FIRE-RATED FLOOR

GLASS TYPE:

120 MIN. SAFTIFIRST FIRE—RATED GLASS AS TESTED

WALK-ABLE GLASS TYPE:

LAMINATED GLASS WAKING SURFACE

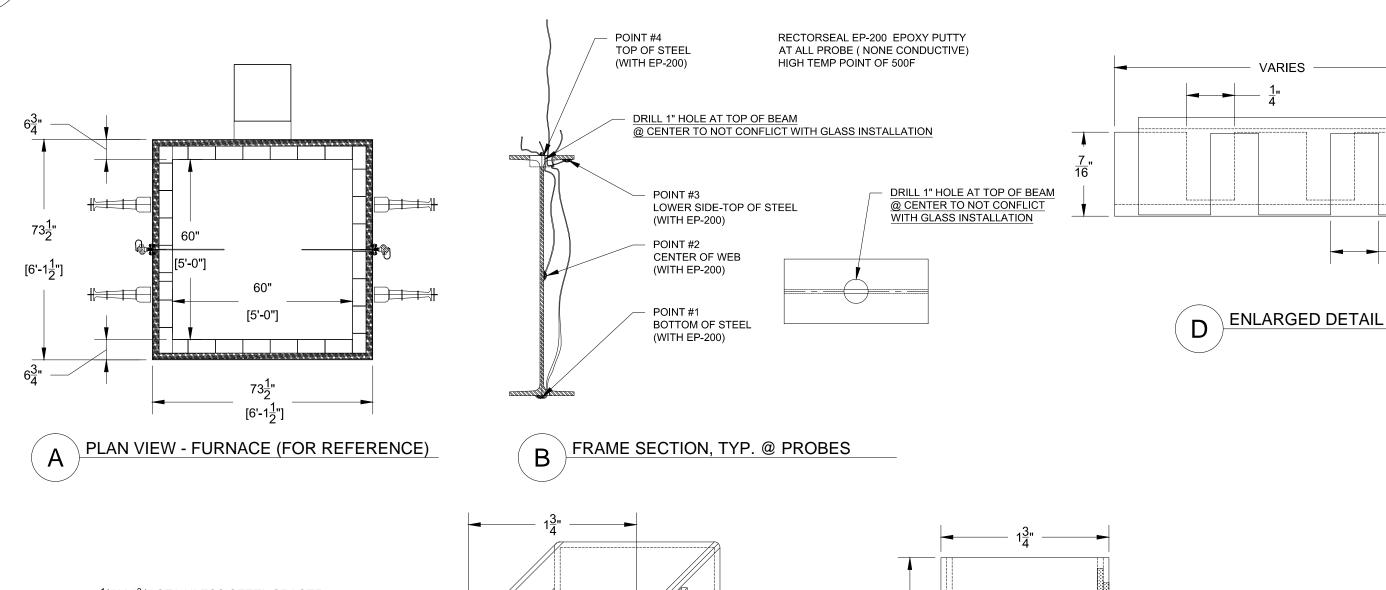
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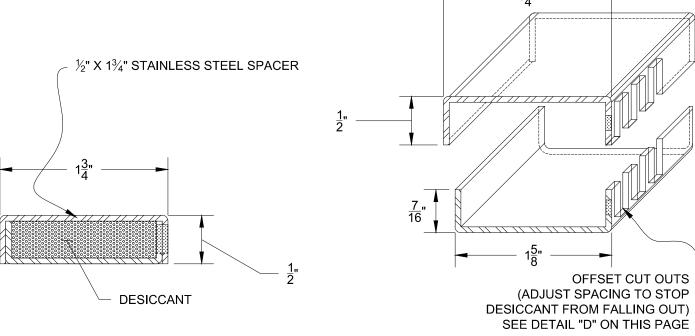
WALKING

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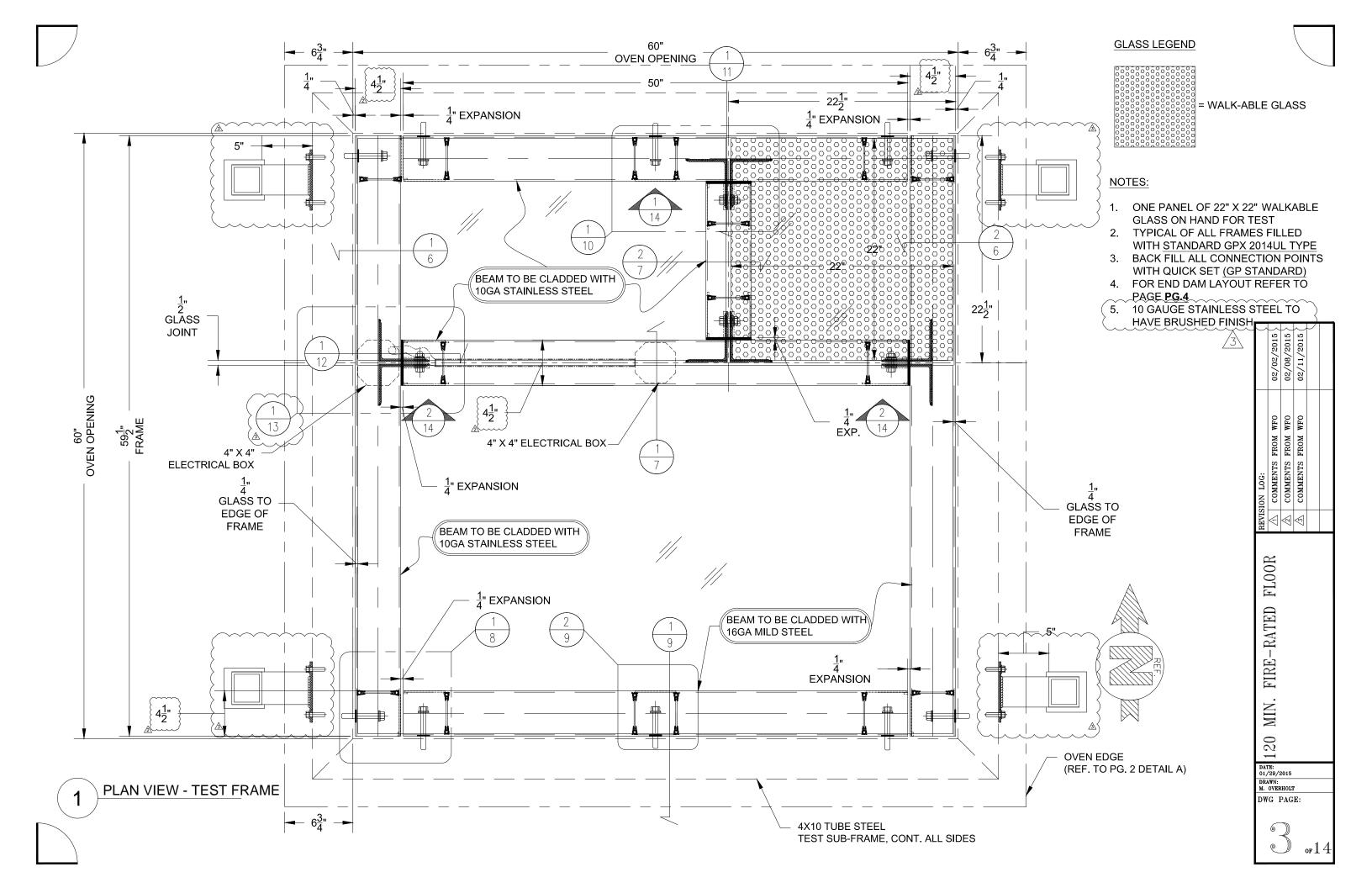
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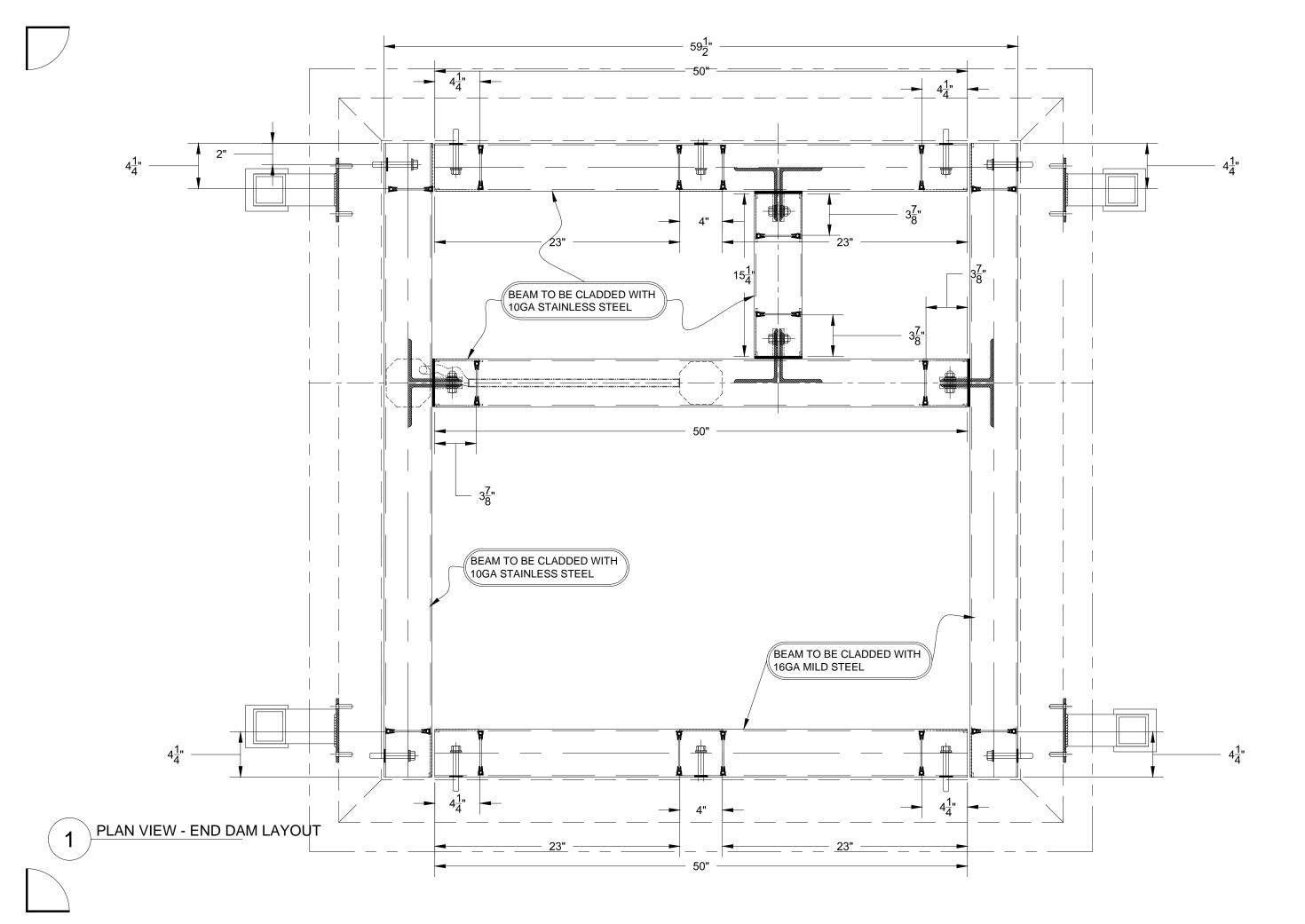
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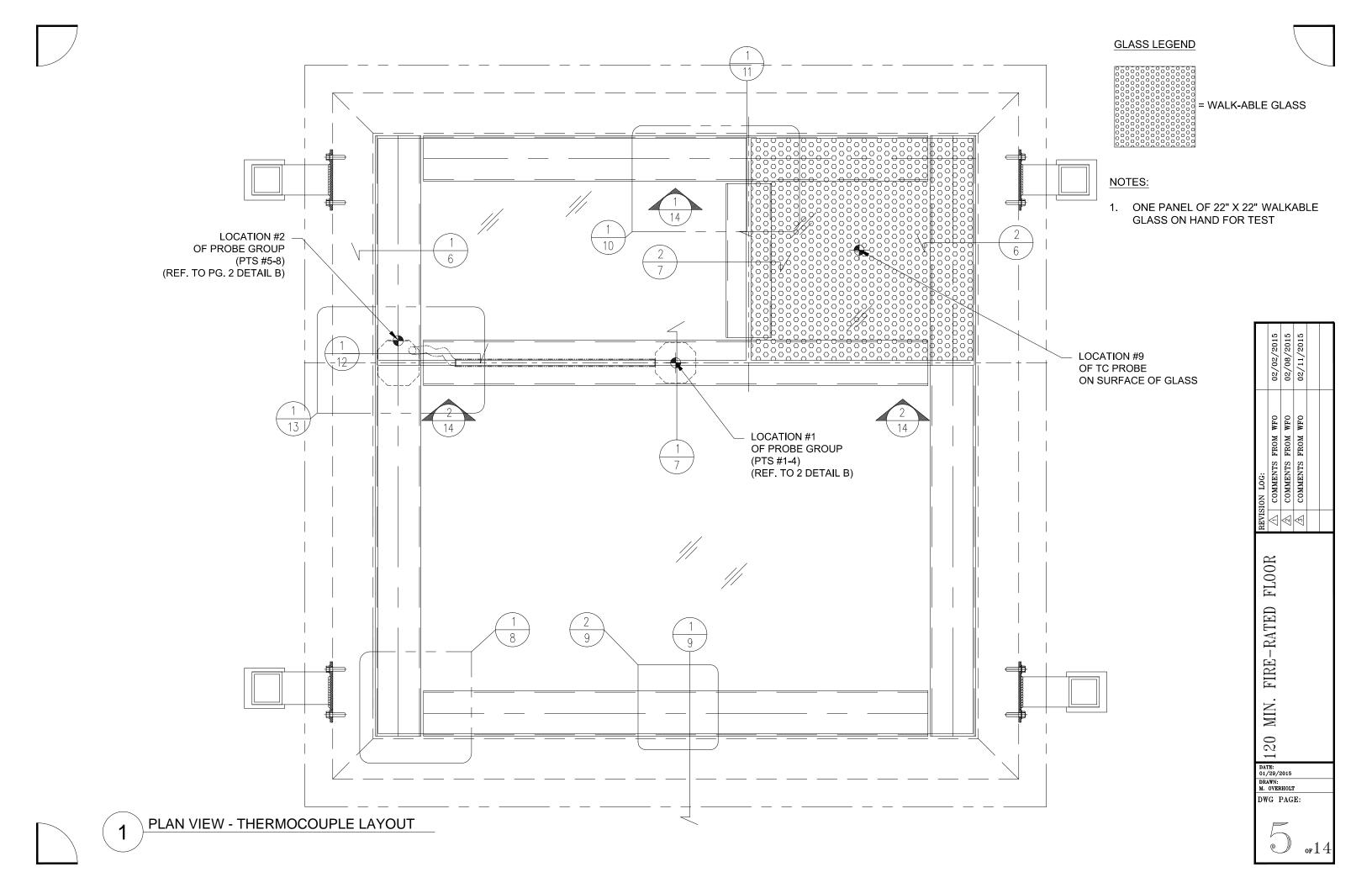


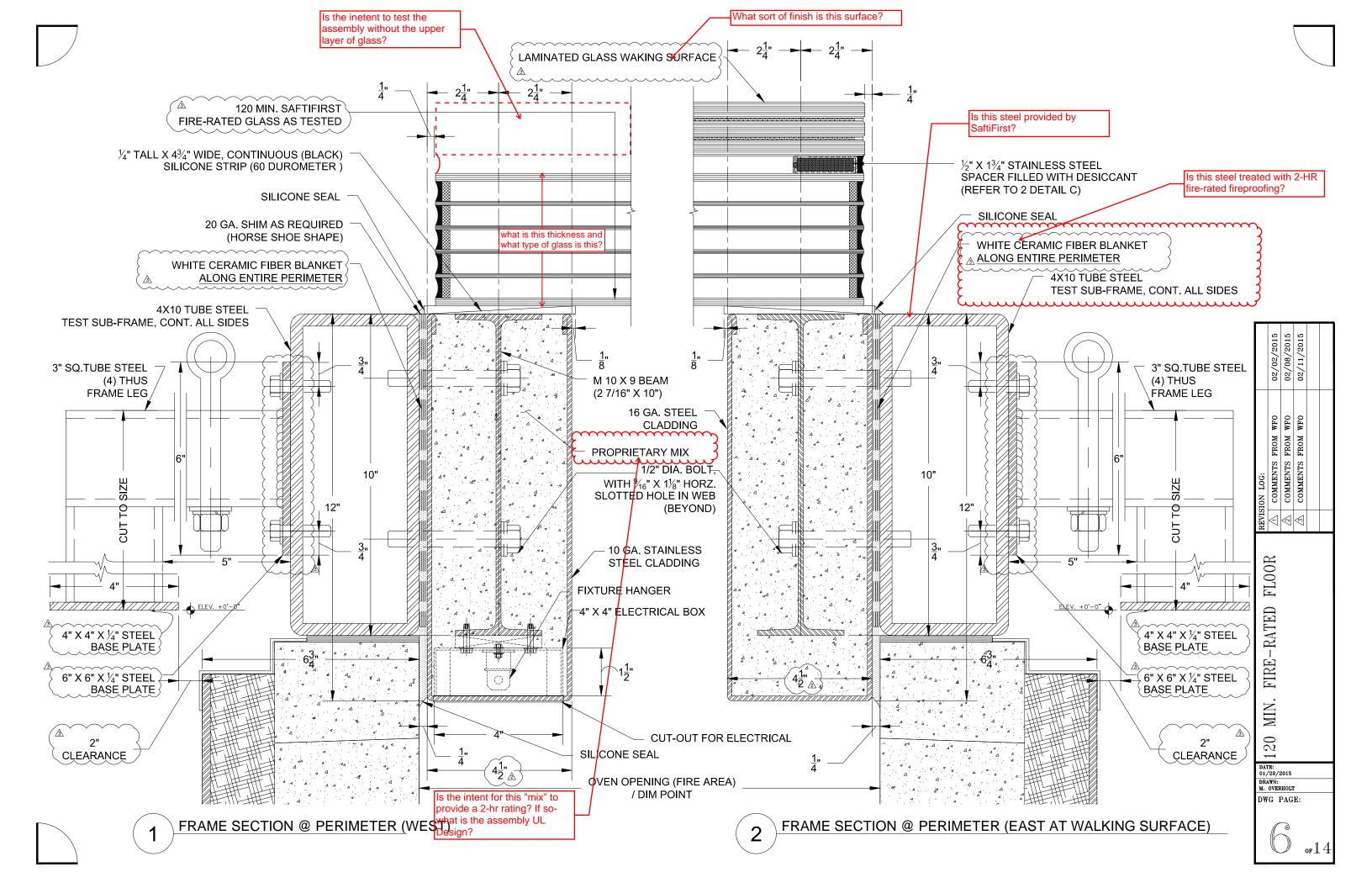
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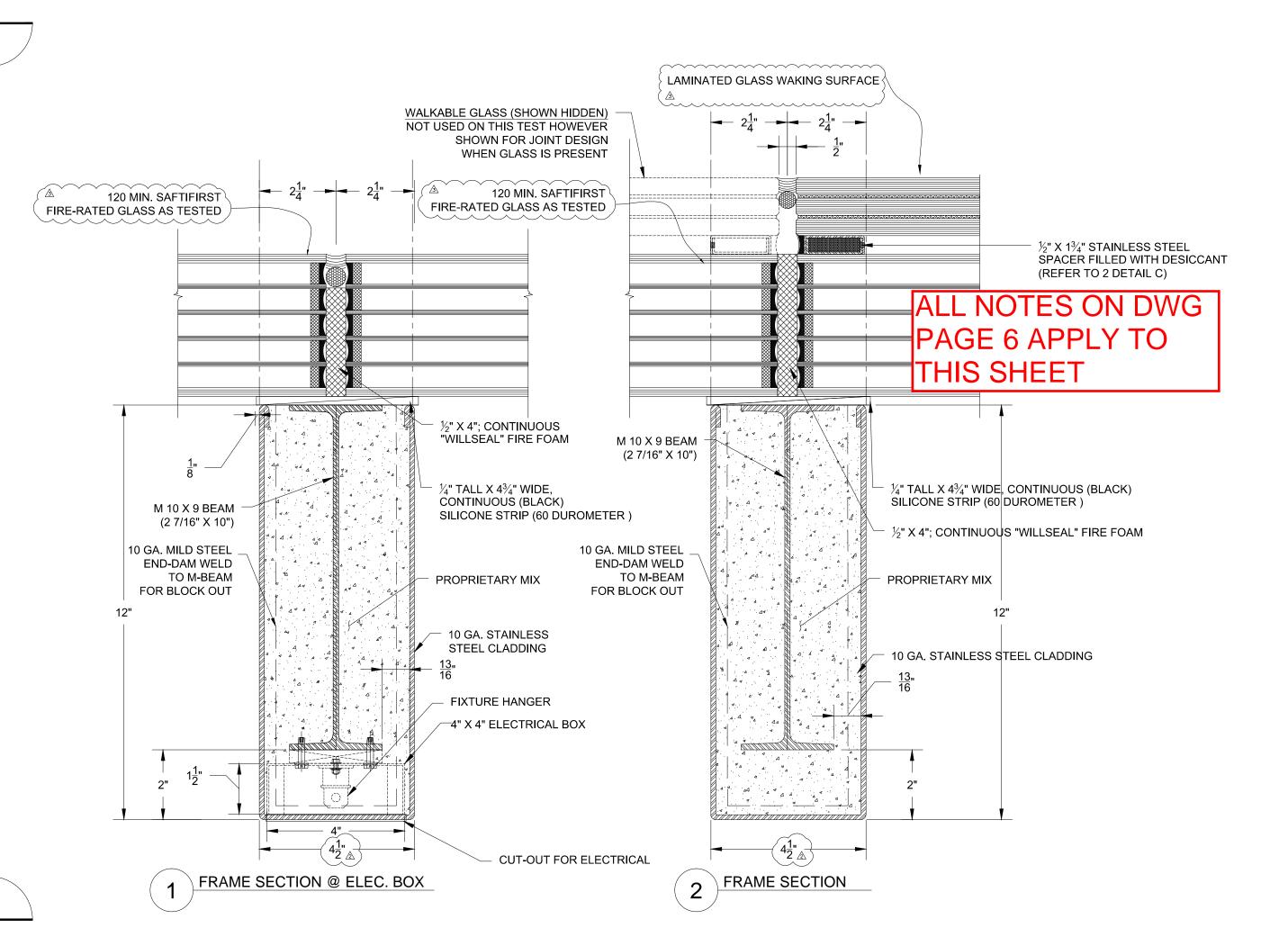
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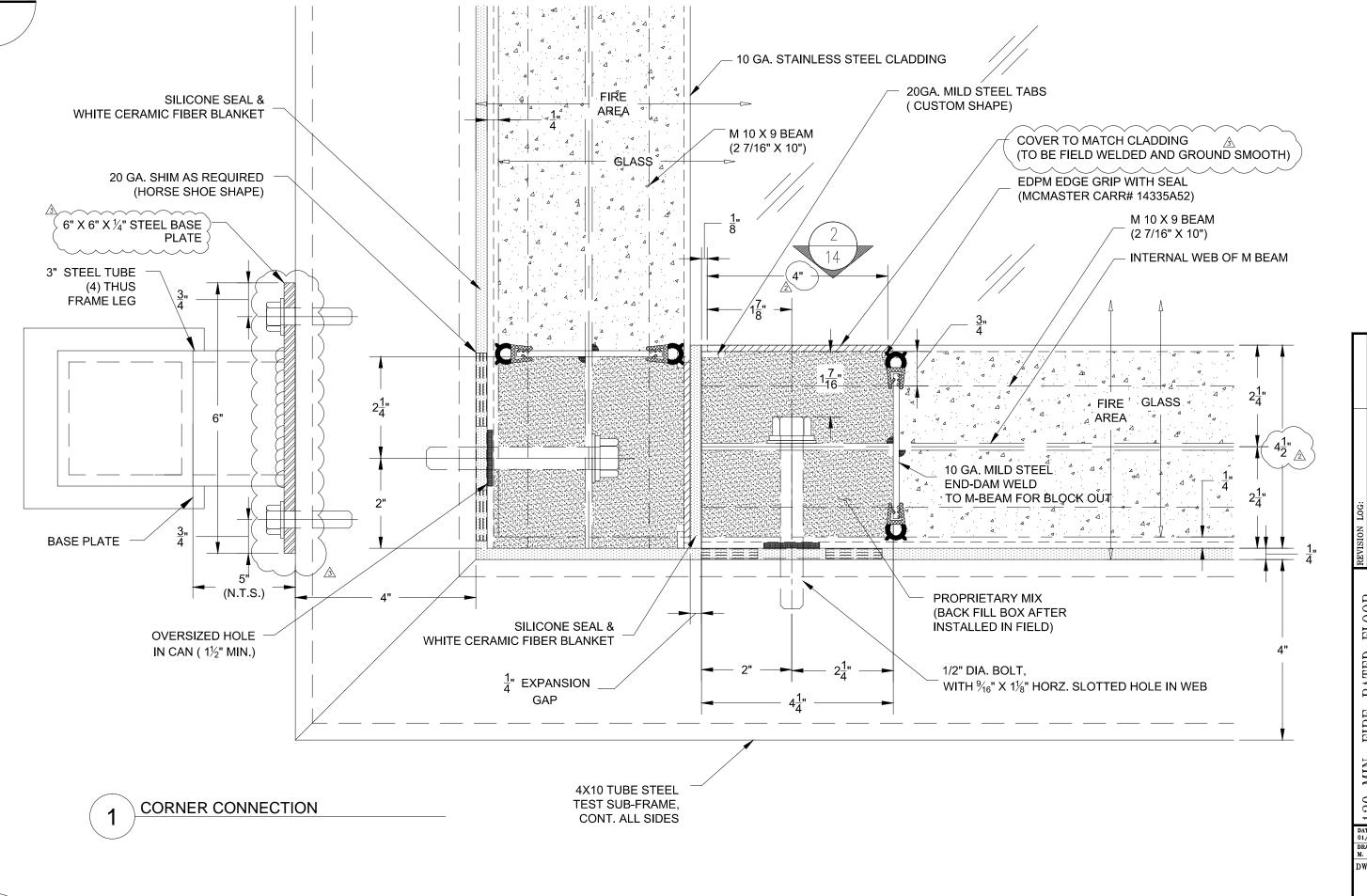






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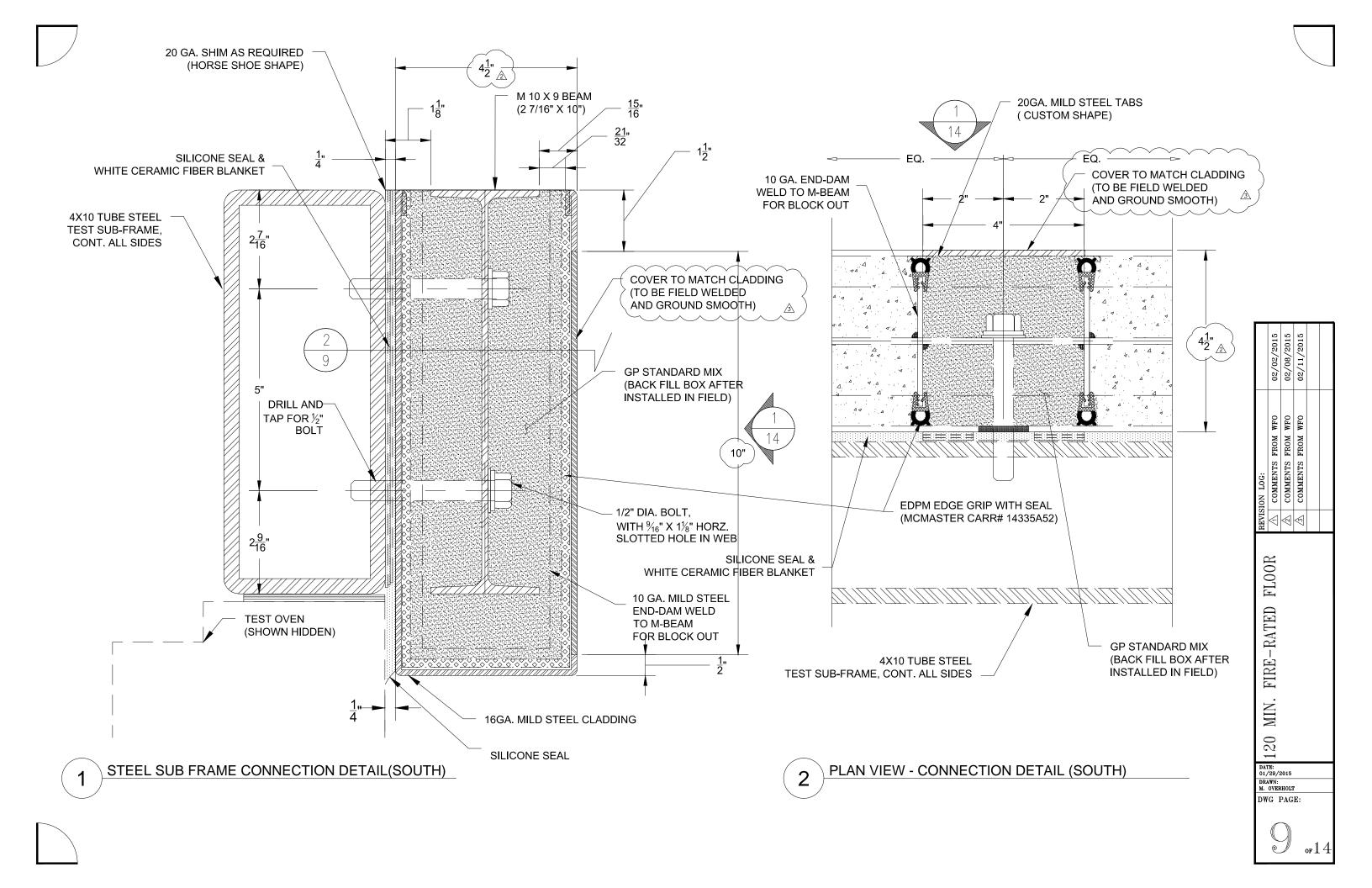
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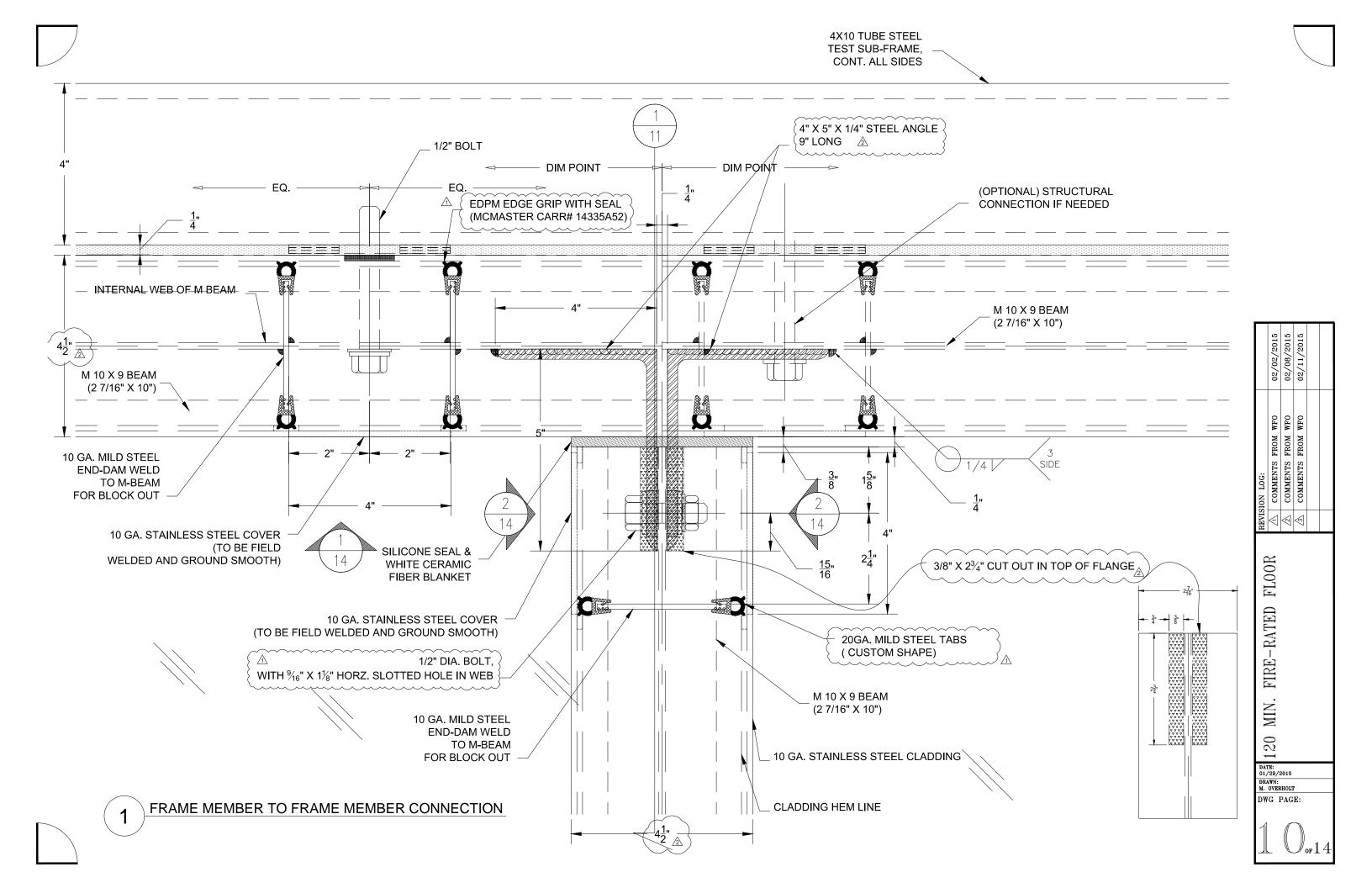
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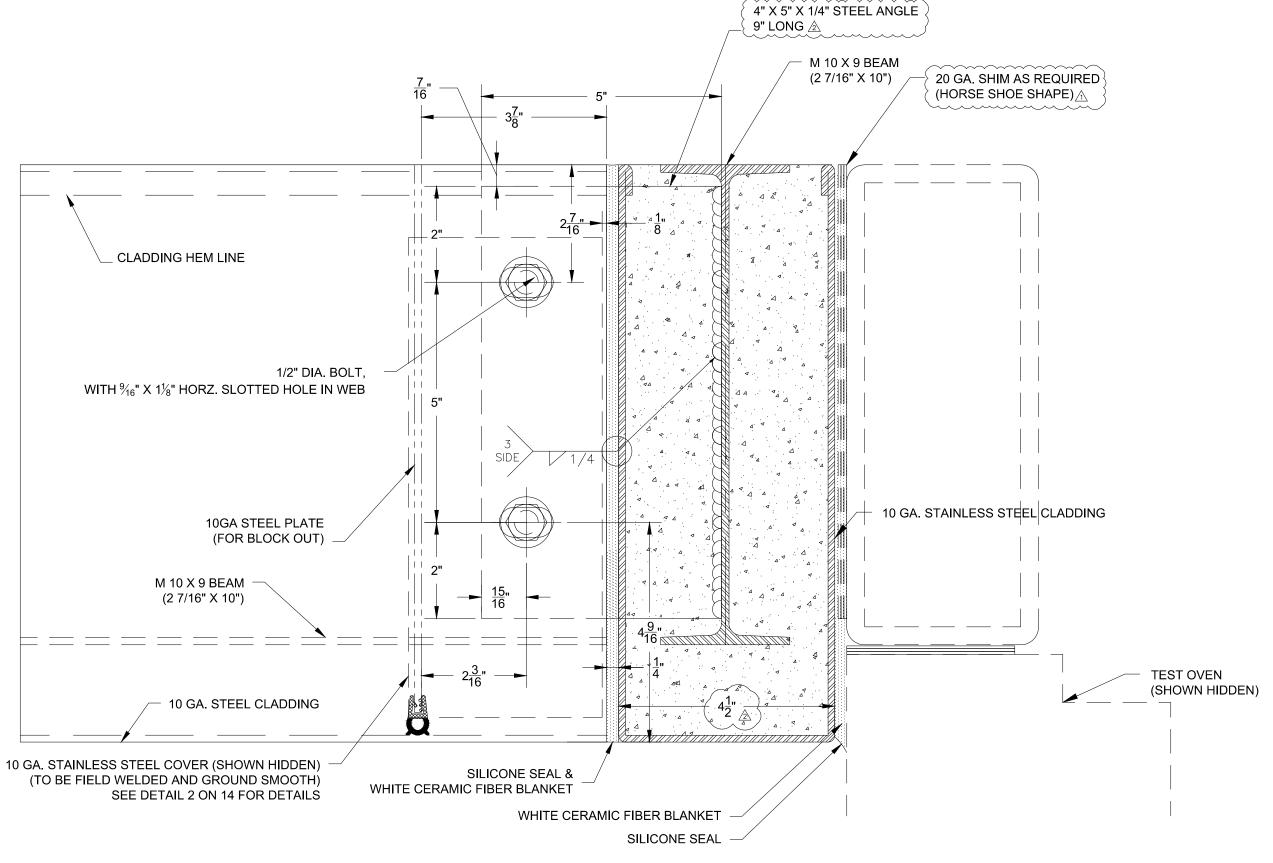
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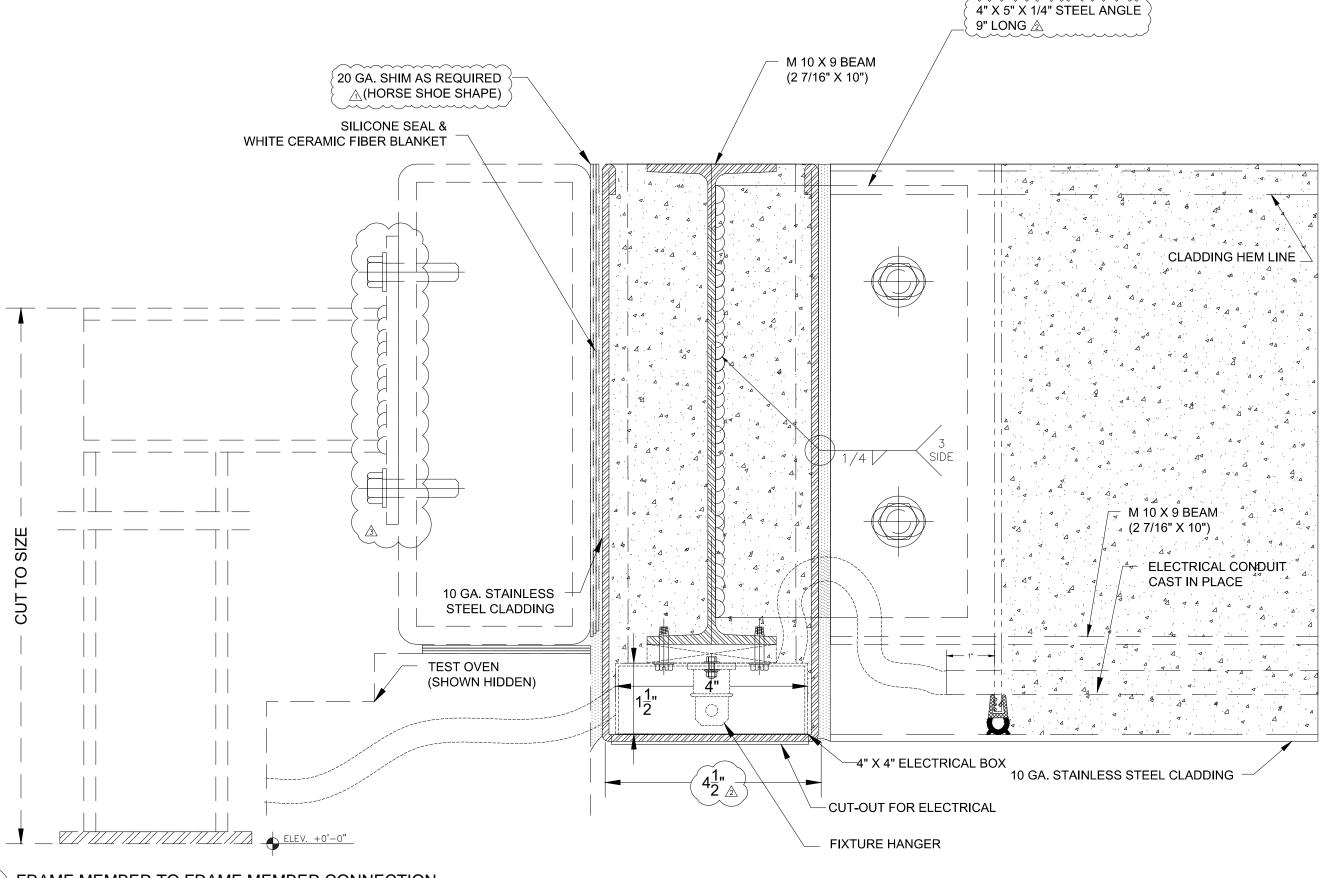






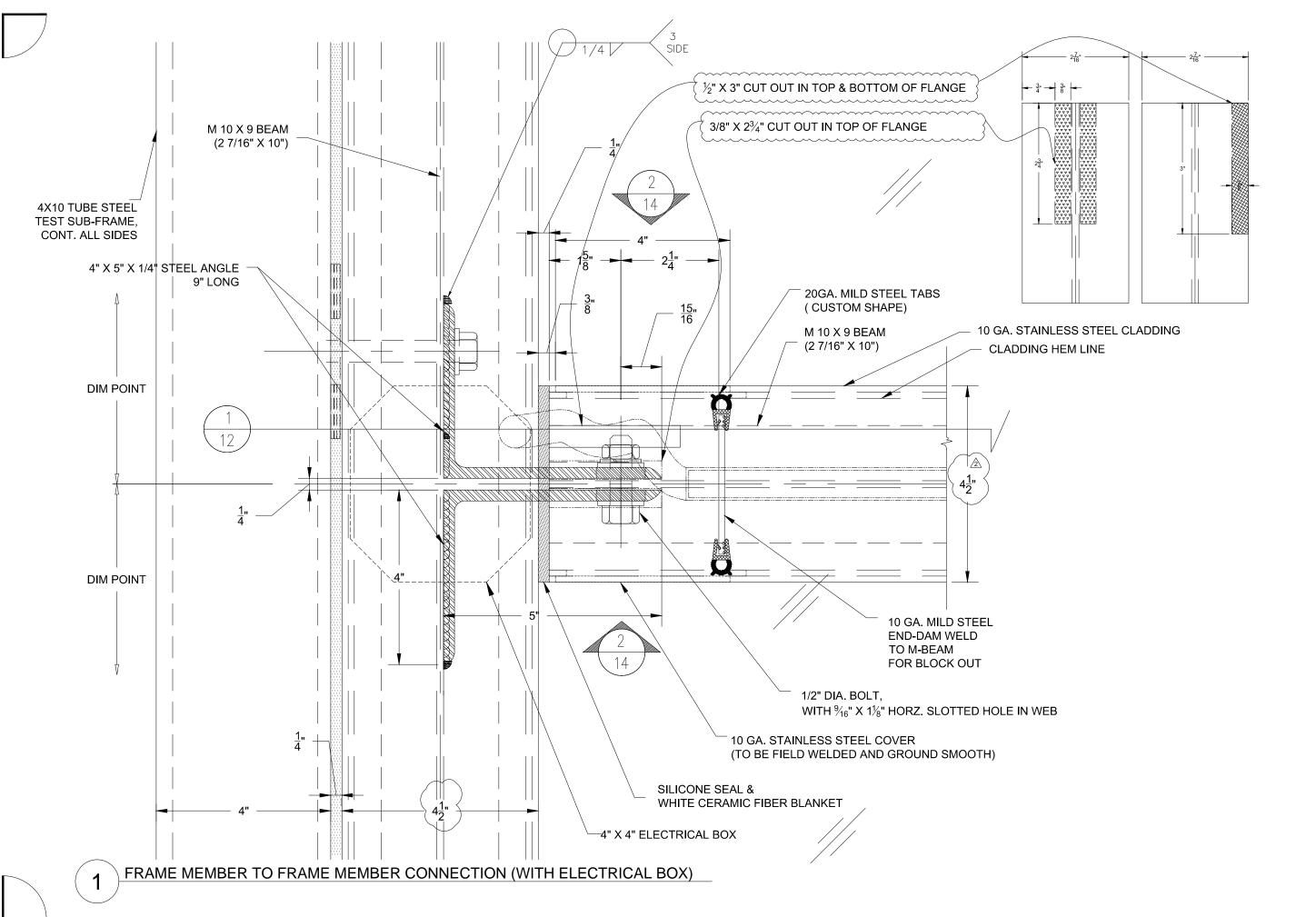
FRAME MEMBER TO FRAME MEMBER CONNECTION NORTH SIDE (THRU THE CONNECTION)

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FRAME MEMBER TO FRAME MEMBER CONNECTION
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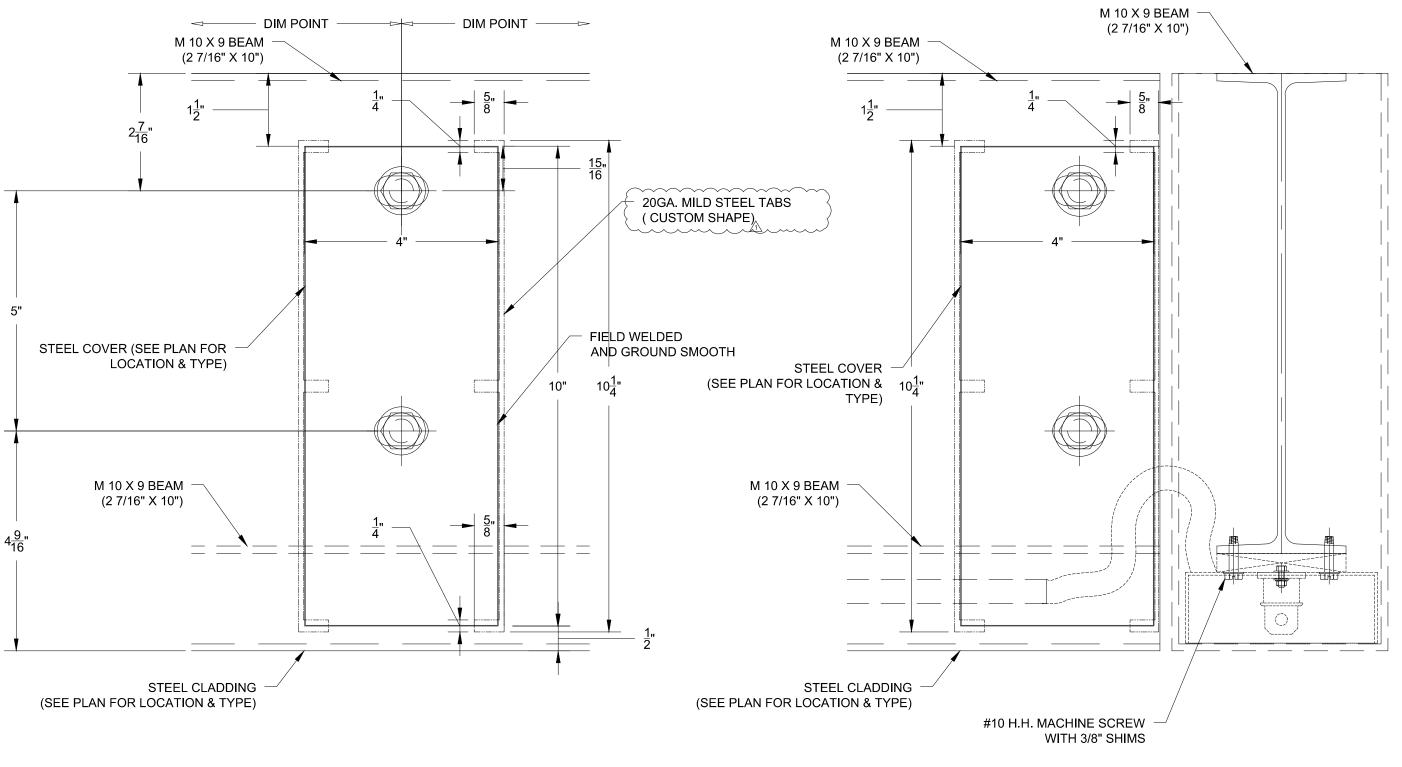
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M. OVERHOLT

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(4" X 10") COVER DETAIL AND CUT OUT

LOCATION VARIES SEE PLAN

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FLOOR

2 (4" X 10") COVER DETAIL AND CUT OUT LOCATION @ END OF FRAME (ELECTRICAL WHERE APPLIED)