

# ATMI Precast

## Building Precast Solutions

ITEMS OF INFORMATION - Required by ATMI for Shop Drawings

July 9, 2019

### Design Criteria

- Building Code and fire Rating(s), if and where required
- Building Live Loads including Surcharge Live Load on Slab-on-Grade
- Wind Loading for Building Structure and Wind Loading for Cladding and Components
- Seismic Loading (ATMI assumes a Seismic Response Modification Coefficient of R=3 and designs precast walls as "Ordinary Precast Shear Walls")
- Snow Loading
- Equivalent fluid pressure for precast walls below grade (e.g., dock walls) (in "dry condition" and in active state)


### Architectural

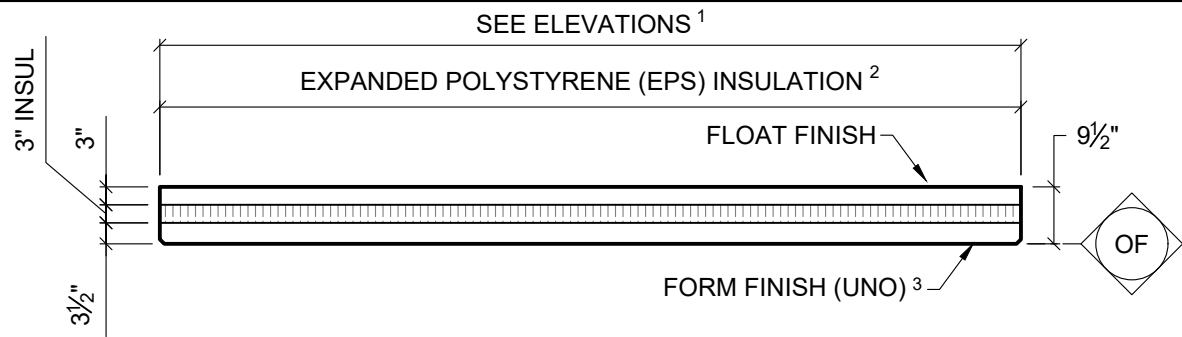
- Assumed panel thickness, panelization (ATMI standard joint width is 1/2-inch) and panel finishes
- Typical panel widths are nominal 14'-0", 13'-0" and/or 12'-0" wide panels
- 18-inch minimum jamb at openings required (minimum width from edge of panel to edge of any opening)
- Top and bottom of precast panel elevations (ATMI assumes 1-inch grout annular space between bottom of panel and top of footing/foundation)
- Expansion joints (EJ's should occur in wall panels where a roof EJ occurs; ATMI prefers roof EJ's align with wall panel joints, if not, EOR must fully detail sliding joints in roof; EJ width, anticipated in-plane and out-of-plane movements, and EJ material, are the responsibility of the AOR/EOR to design and detail).
- Scupper size and location, if required
- Reveal size and locations (ATMI standard reveal depth is 1/2-inch)
- Rough opening sizes (windows, doors, dock doors, clerestory windows, etc.)
- Location of drips, wash, chamfers, etc. (see ATMI standard details)
- Precast joints (butt, mitre, lapped, etc. see ATMI standard details). ATMI prefers butt or lapped precast joints.

### Structural

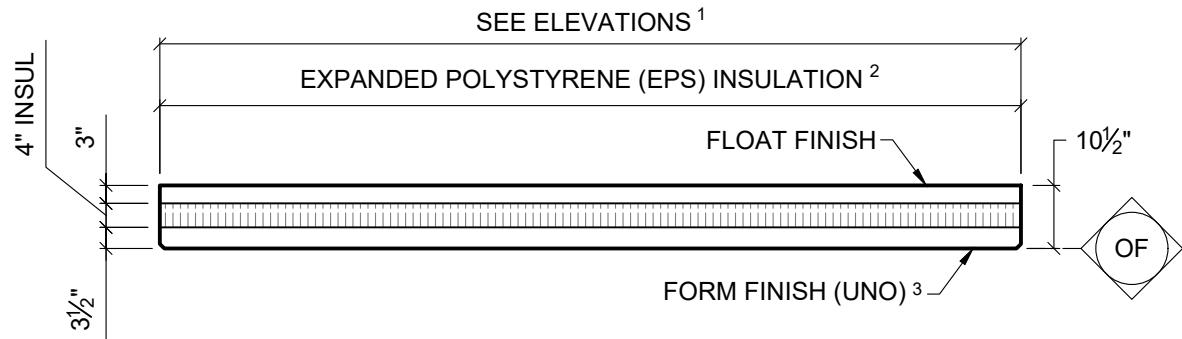
- Foundation Plans/details with T/Foundation identified (i.e., bottom of panel) including steps in foundations.
- ATMI assumes all panels founded at -(3'-0") or greater will be tied back to SOG with floor ties. ATMI will provide floor tie loads for design of SOG by EOR.
- Roof Framing Plans and details, with loads as outlined.
- Provide all loads as Service Loads (or identify as ultimate loads)
- Gravity Loads (typically service loads)
  - ✓ Deck loading; DL, LL, uplift (plf)
  - ✓ Joist/Beam/Joist Girder loadings, DL, LL, N (axial tension), uplift (kips)
- Lateral Loads (diaphragm shears due to wind and seismic) imposed on precast due (plf at roof and mezzanines)
  - ✓ Indicate whether or not seismic lateral loads noted take into account the weight of panels parallel to direction of seismic load
  - ✓ Identify diaphragm chord element and if required, splices, and identify collectors, if required
- Special Loads - Provide DL, LL, N (axial tension), uplift (kips) for each condition:
  - ✓ Canopies; Awnings; Wind girts; and other structural elements attached to precast
  - ✓ Provide detail and galvanizing (or other protection) requirements
- Bottom of roof deck and bottom of mezzanine deck elevations (ATMI prefers, and unless directed otherwise, bids and assumes constant elevation bottom of deck elevations)
- Identify fixed and sliding sides of EJ's; detail sliding connections fully through roof framing until the EJ aligns properly with vertical wall panel expansion joints; ATMI prefers not to have sliding joints at edges of spandrel beams if possible. Also see Expansion Joint comments under Architectural.
- Details: See ATMI standard details attached.

XX	STANDARD PANEL CROSS SECTIONS	09/06/2018	D63A	SPANDREL TO COLUMN - JOINT	12/11/2018
D1A	BASE CONNECTION AT TRENCH FOOTING	△ <sub>5</sub> 01/28/2020	D63C	SPANDREL TO COLUMN - JOINT	12/11/2018
D1B	BASE CONNECTION AT TRENCH FOOTING	△ <sub>3</sub> 01/28/2020	D66	VERTICAL/HORIZONTAL REVEAL	01/09/2017
D2	BASE CONNECTION AT WIDE STEM WALL	△ <sub>3</sub> 11/22/2021	D67	CAULK CORNER	01/09/2017
D4B	FLOOR TIE	07/31/2020	D68	1/2" EDGE CHAMFER	△ <sub>1</sub> 12/30/2022
D6	PRECAST COLUMN AT FOUNDATION	11/02/2020	D69	3/4" EDGE CHAMFER	△ <sub>1</sub> 12/30/2022
D20	BEAM POCKET	△ <sub>3</sub> 01/28/2020	D70	3/4" EDGE CHAMFER ON EACH FACE	△ <sub>1</sub> 12/30/2022
D20AB	BEAM POCKET EXPLODED VIEW & ENLARGED DETAIL	01/09/2017	D71	DRIP REVEAL	△ <sub>1</sub> 12/30/2022
D21	BEAM POCKET AT JOINT (SECTION)	△ <sub>3</sub> 01/28/2020	D72	SILL WASH	△ <sub>1</sub> 12/30/2022
D21A	BEAM POCKET AT JOINT (ELEVATION)	01/09/2017	D73	PANEL JOINT	△ <sub>1</sub> 12/30/2022
D23	BEARING EMBED	△ <sub>3</sub> 01/28/2020	D74	FIRE RATED PANEL JOINT	△ <sub>1</sub> 12/30/2022
D30	JOIST GIRDER POCKET	△ <sub>3</sub> 01/28/2020	D75	REINFORCING AROUND OPENINGS	△ <sub>1</sub> 10/17/2018
D31	JOIST GIRDER POCKET AT PANEL JOINT (SECTION)	△ <sub>4</sub> 01/28/2020	D76	DETAILING AROUND FUTURE OPENINGS	△ <sub>1</sub> 03/28/2022
D32	JOIST GIRDER POCKET AT PANEL JOINT (ELEVATION)	01/09/2017	D77A	REINFORCING AROUND OPENINGS	12/30/2022
D33	PERPENDICULAR NOTCHED BEARING	△ <sub>1</sub> 01/28/2020	D80	PLANK BEARING ANGLE	△ <sub>4</sub> 01/28/2020
D34	PARALLEL NOTCHED BEARING	△ <sub>1</sub> 01/28/2020	D81	PLANK BEARING EMBED	△ <sub>3</sub> 01/28/2020
D36	BEARING ANGLE	△ <sub>1</sub> 07/01/2019	D82	PLANK BEARING T/PRECAST	△ <sub>2</sub> 08/05/2019
D37	BEARING EMBED	△ <sub>1</sub> 01/12/2018	D83	PLANK NON-BEARING	△ <sub>1</sub> 08/15/2018
D39	PANEL TO PANEL TIE BACK	07/01/2019	D90	UTILITY ROOM SLAB BEARING	△ <sub>1</sub> 01/28/2020
D40	DECK BEARING EMBED ANGLE	01/09/2017	D91	INSIDE BEARING UTILITY ROOM	△ <sub>1</sub> 01/28/2020
D41	DECK BEARING AT INTERMITTENT EMBED	△ <sub>1</sub> 01/28/2020	D92	NON-BEARING UTILITY ROOM	△ <sub>1</sub> 01/28/2020
D44	ALIGNMENT/SHEAR CONNECTION	△ <sub>1</sub> 10/04/2019	D93	UTILITY ROOM SLAB TO SLAB INTERMITTENT CONNECTION	△ <sub>1</sub> 01/28/2020
D45	EXPANSION JOINT ALIGNMENT CONNECTION	△ <sub>2</sub> 01/28/2020	D94	UTILITY ROOM SLAB BEARING DETAIL	△ <sub>2</sub> 01/28/2020
D46	PANEL CONNECTION	△ <sub>1</sub> 01/28/2020	D95	INTERIOR/EXTERIOR WALL JOINT TREATMENT	03/13/2023
D47	SHEAR CONNECTION	△ <sub>1</sub> 10/28/2019	D96	INTERIOR/EXTERIOR SLAB JOINT TREATMENT	03/13/2023
D50	MITER CORNER	01/09/2017			
D51	OUTSIDE BUTT CORNER	△ <sub>1</sub> 01/28/2020			
D52	INSIDE BUTT CORNER	△ <sub>1</sub> 01/28/2020			
D53	OVERLAP CORNER	△ <sub>1</sub> 01/28/2020			
D54	HIDDEN PANEL CONNECTION	△ <sub>1</sub> 01/28/2020			
D60	SPANDREL SUPPORT	△ <sub>2</sub> 01/28/2020			
D62A	SPANDREL TO STEEL COLUMN	12/11/2018			
D62C	SPANDREL TO STEEL COLUMN	12/11/2018			

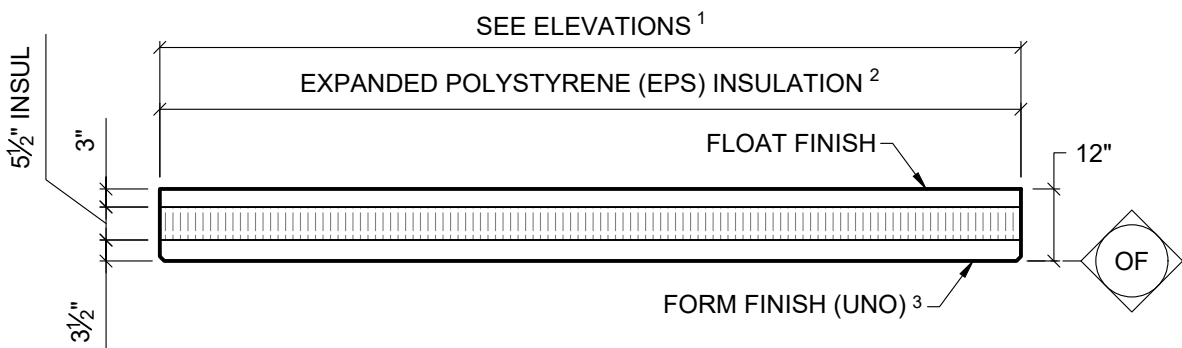
	TITLE: SHOP DRAWING DETAILS	BY: ATMI
	PROJECT: STANDARDS	
	ISSUED: 12/30/2022	REVISED: △ <sub>0</sub>



XX 9 1/2" PANEL SECTION  
SCALE: 3/8" = 1'-0"




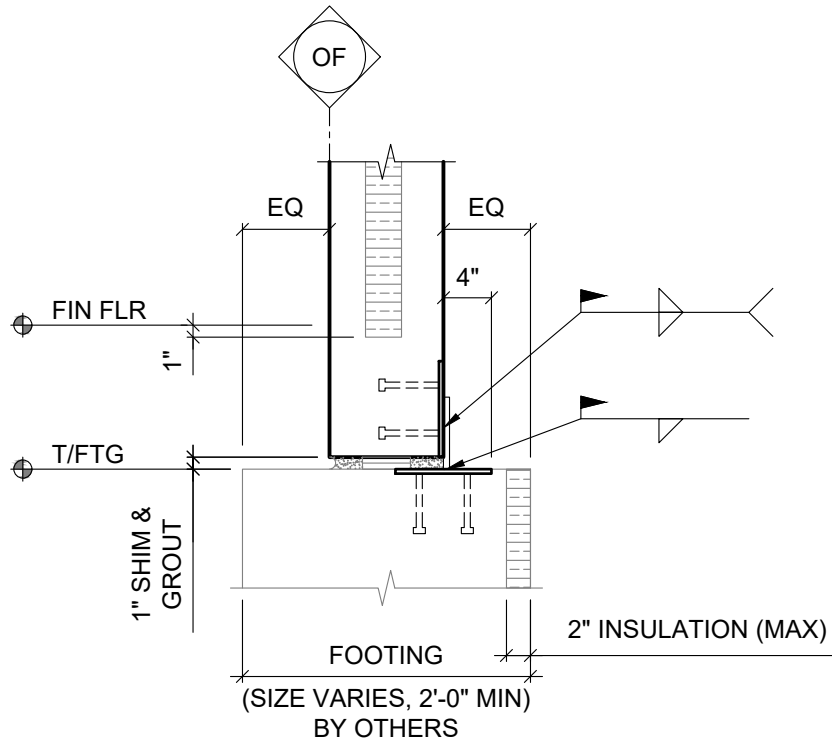
XX 10 1/2" PANEL SECTION  
SCALE: 3/8" = 1'-0"




XX 12" PANEL SECTION  
SCALE: 3/8" = 1'-0"

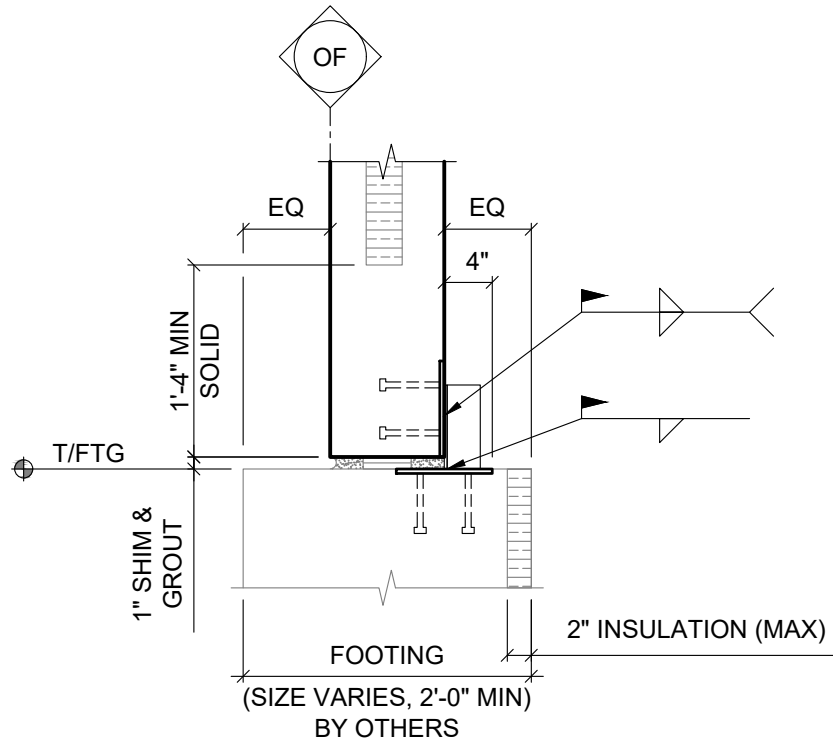
- NOTES:**
1. PANEL WIDTHS SHOWN ON ELEVATIONS ARE NOMINAL PANEL WIDTHS. ACTUAL PANEL SIZE ACCOUNTS FOR PRECAST JOINTS (ATMI STANDARD DETAIL D73).
  2. INSULATION MAY NOT BE CONTINUOUS AS SHOWN. SOLID AREAS ARE REQUIRED AT DUNNAGE, EMBEDDED MATERIAL LOCATIONS, AND ANY AREAS DEEMED NECESSARY TO MAINTAIN THE STRUCTURAL INTEGRITY OF THE PRECAST MEMBER.
  3. CONCRETE IS COMPOSED OF NATURAL MATERIALS. VARIATIONS IN AESTHETIC APPEARANCE (e.g. COLOR, TEXTURE) SHOULD BE EXPECTED WITH ATMI PRECAST'S STANDARD GRAY MIX.
  4. REFER TO INDIVIDUAL PANEL MANUFACTURING DRAWINGS FOR STRAND, TRUSS, AND REBAR LOCATIONS.

	TITLE: STANDARD PANEL CROSS SECTIONS	BY: ATMI
	PROJECT: STANDARDS	<b>XX</b>
	ISSUED: 09/06/2018	



**BASE CONNECTION  
AT TRENCH FOOTING**  
 D1A  
 SCALE: 3/4" = 1'-0"


	TITLE: SHOP DRAWING DETAILS	BY: ATMI
	PROJECT: STANDARDS	<h1>D1A</h1>
	ISSUED: 02/17/2017	



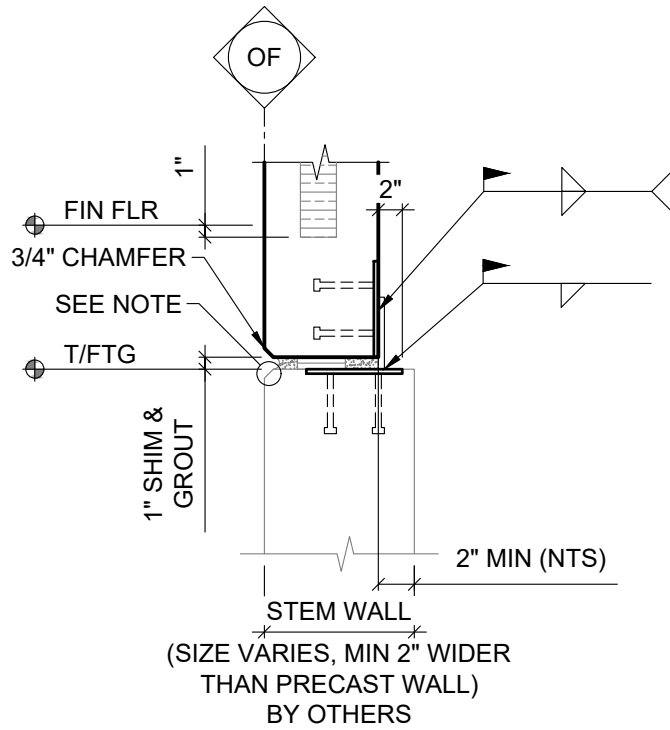
**BASE CONNECTION  
AT TRENCH FOOTING**

D1B

SCALE: 3/4" = 1'-0"


	TITLE: SHOP DRAWING DETAILS	BY: ATMI
	PROJECT: STANDARDS	<p style="font-size: 2em; font-weight: bold;">D1B</p>
	ISSUED: 02/17/2017	

**NOTE:**  
 ATMI RECOMMENDS ADDING CHAMFERED EDGE TO THE  
 OUTSIDE FACE TOP EDGE OF STEM WALLS TO REDUCE  
 CHIPPING & SPALLING DURING TYPICAL PRECAST  
 ERECTION.

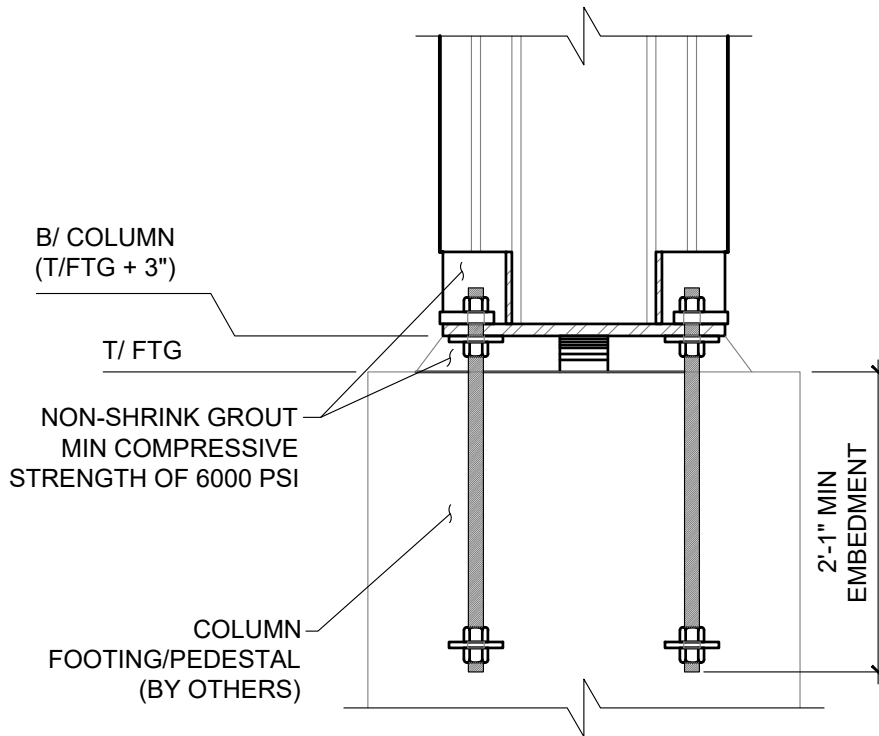


**BASE CONNECTION  
 AT STEM WALL**

D2  
 SCALE: 3/4" = 1'-0"

	TITLE: SHOP DRAWING DETAILS	BY: ATMI
	PROJECT: STANDARDS	<h1>D2</h1>
	ISSUED: 01/09/2017	





**PRECAST COLUMN  
 AT FOUNDATION**

D6

SCALE: 3/4" = 1'-0"



TITLE: SHOP DRAWING DETAILS

BY: ATMI

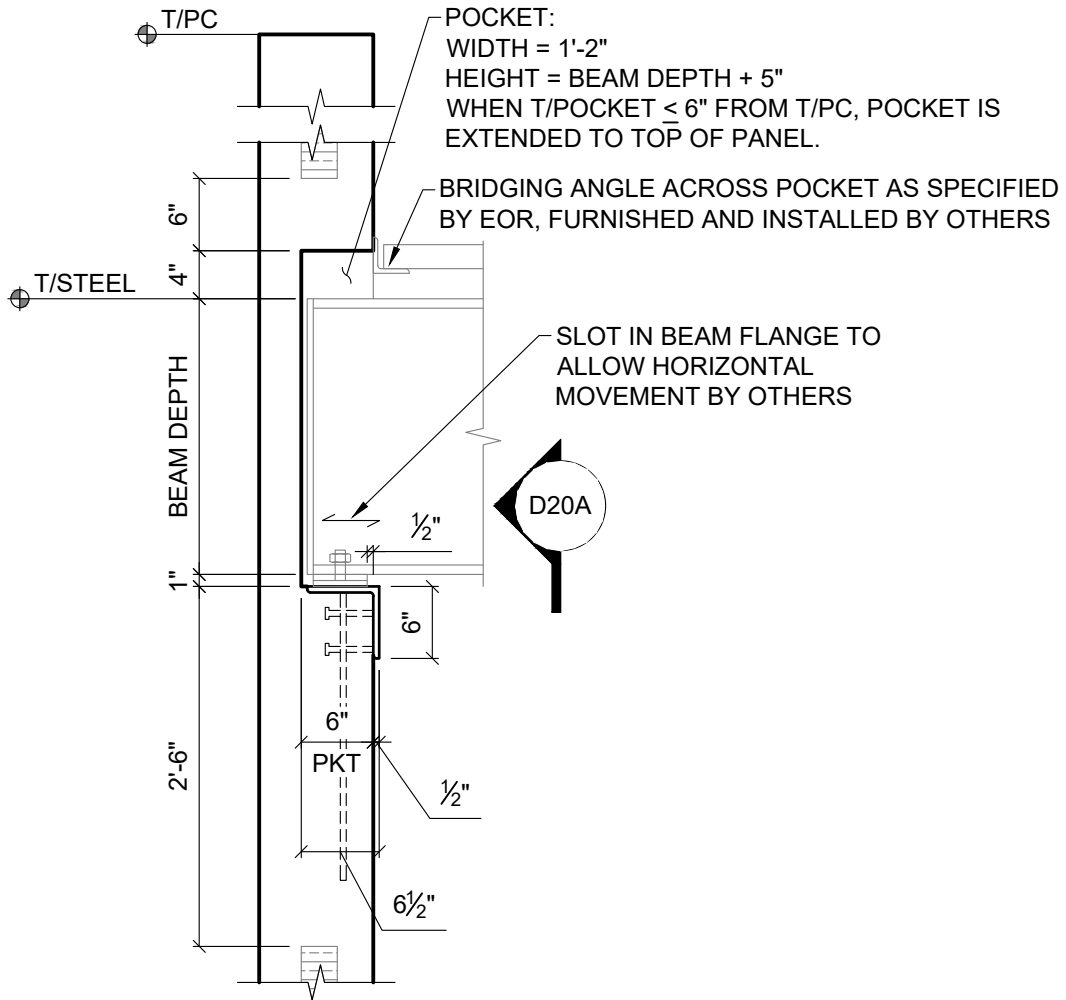
PROJECT: STANDARDS

ISSUED: 06/22/2021

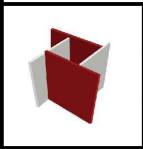
REVISED:

**D6**

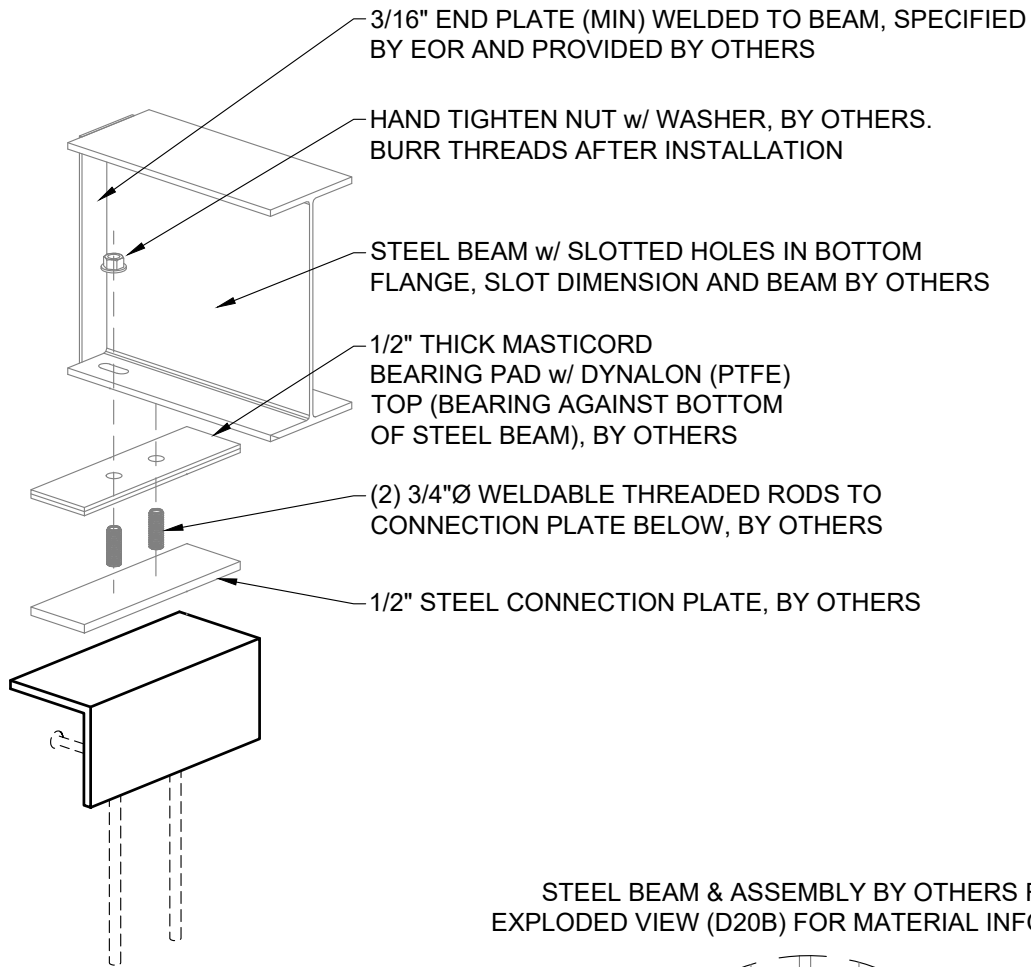




D20 BEAM POCKET  
 SCALE: 3/4" = 1'-0"

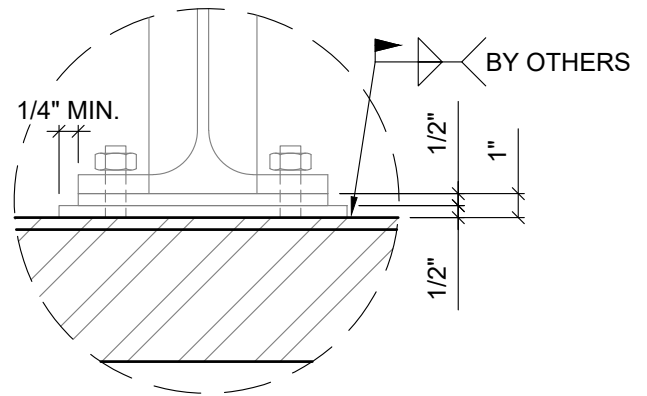


TITLE: SHOP DRAWING DETAILS	BY: ATMI
PROJECT: STANDARDS	D20
ISSUED: 01/09/2017	
REVISED: 3	01/28/2020




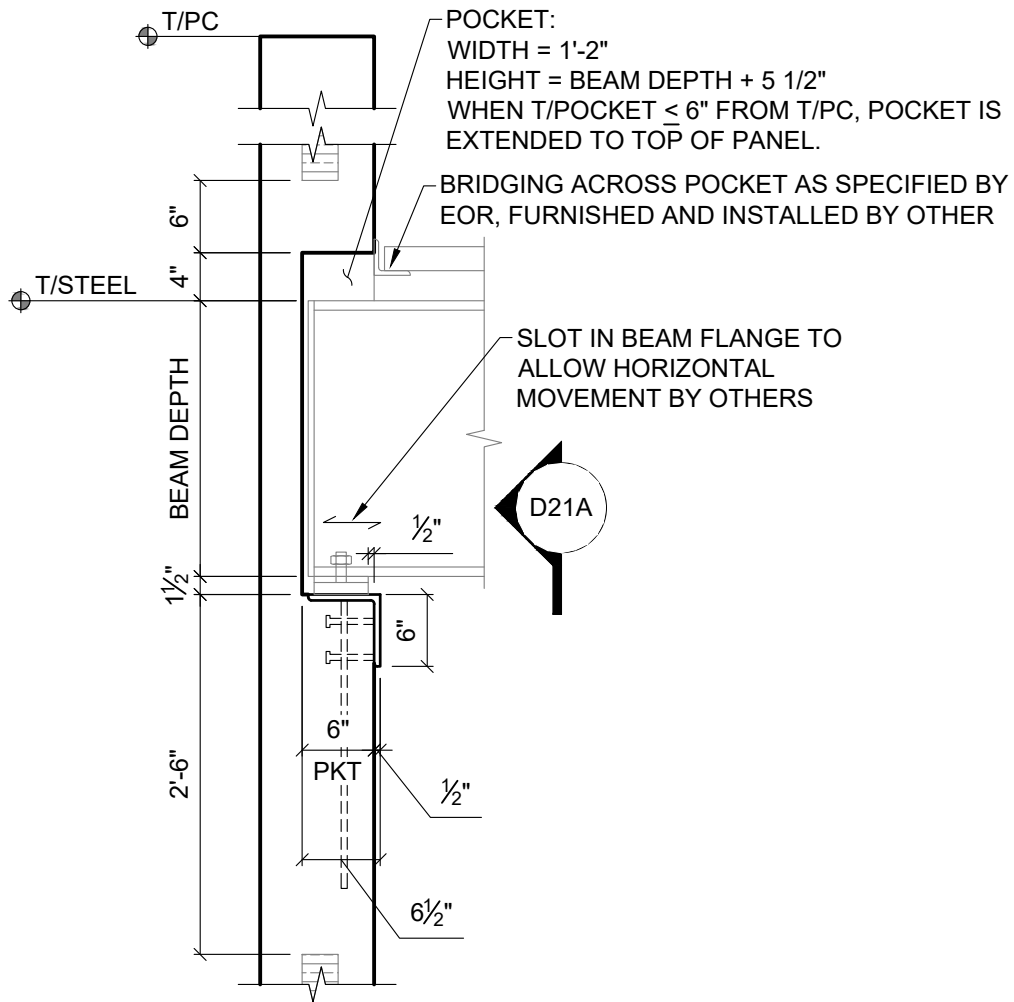
D20B EXPLODED VIEW

STEEL BEAM & ASSEMBLY BY OTHERS REFER EXPLODED VIEW (D20B) FOR MATERIAL INFORMATION

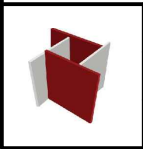



D20A ENLARGED DETAIL

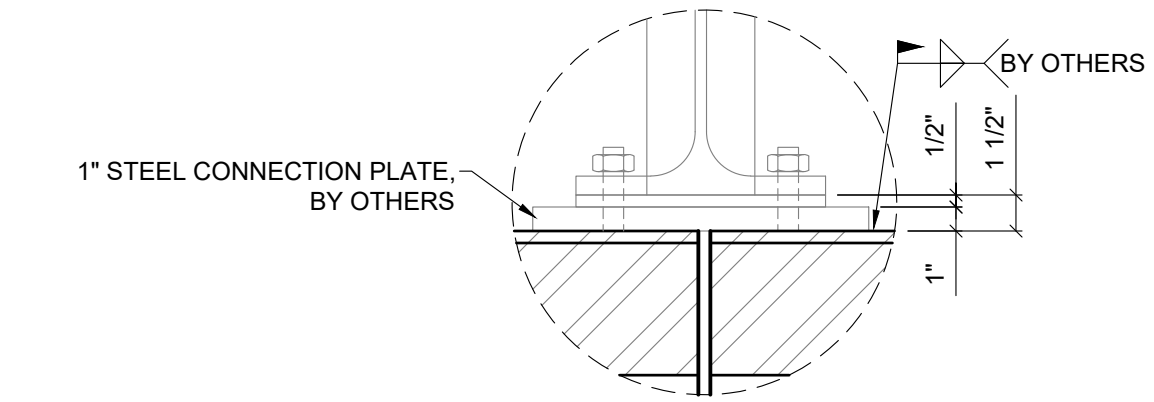
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	PROJECT: STANDARDS	<h1>D20AB</h1>
	ISSUED: 01/09/2017	



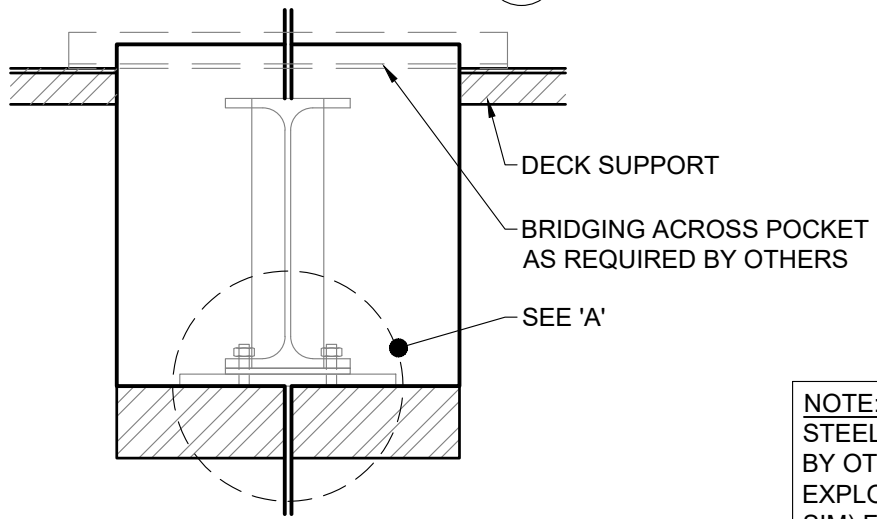
**D21** BEAM POCKET AT JOINT  
SCALE: 3/4" = 1'-0"



TITLE: SHOP DRAWING DETAILS	BY: ATMI
PROJECT: STANDARDS	<b>D21</b>
ISSUED: 01/09/2017	
REVISED:  01/28/2020	




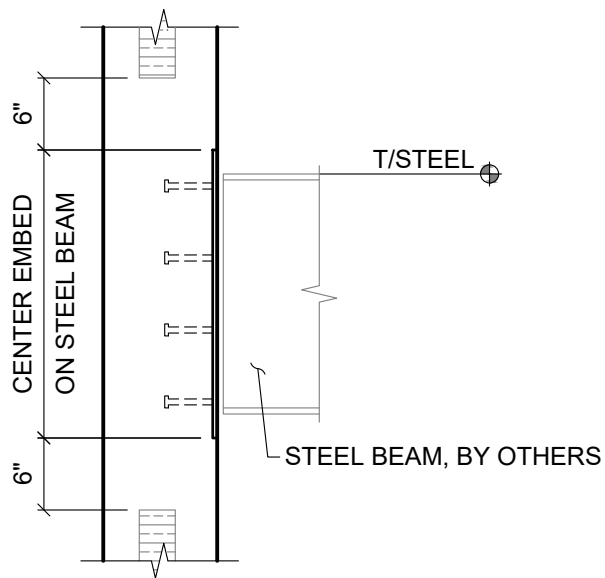
**A** ENLARGED DETAIL



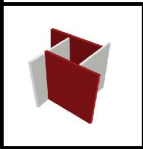
**D21A** BEAM POCKET AT JOINT  
SCALE: 3/4" = 1'-0"


**NOTE:**  
STEEL BEAM & ASSEMBLY BY OTHERS REFER TO EXPLODED VIEWS (D20B, SIM) FOR MATERIALS INFORMATION.

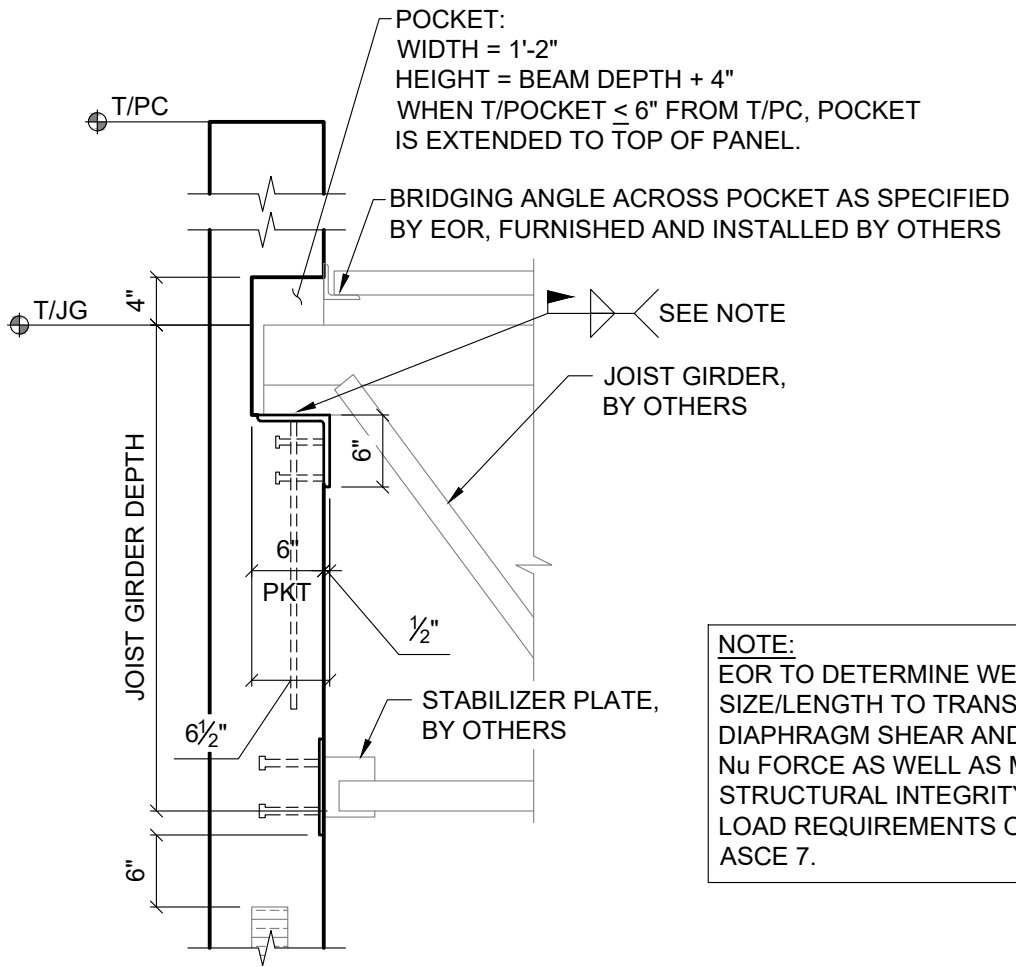
	TITLE: SHOP DRAWING DETAILS	BY: ATMI
	PROJECT: STANDARDS	<h1>D21A</h1>
	ISSUED: 01/09/2017	



D23 BEARING EMBED  
 SCALE: 3/4" = 1'-0"




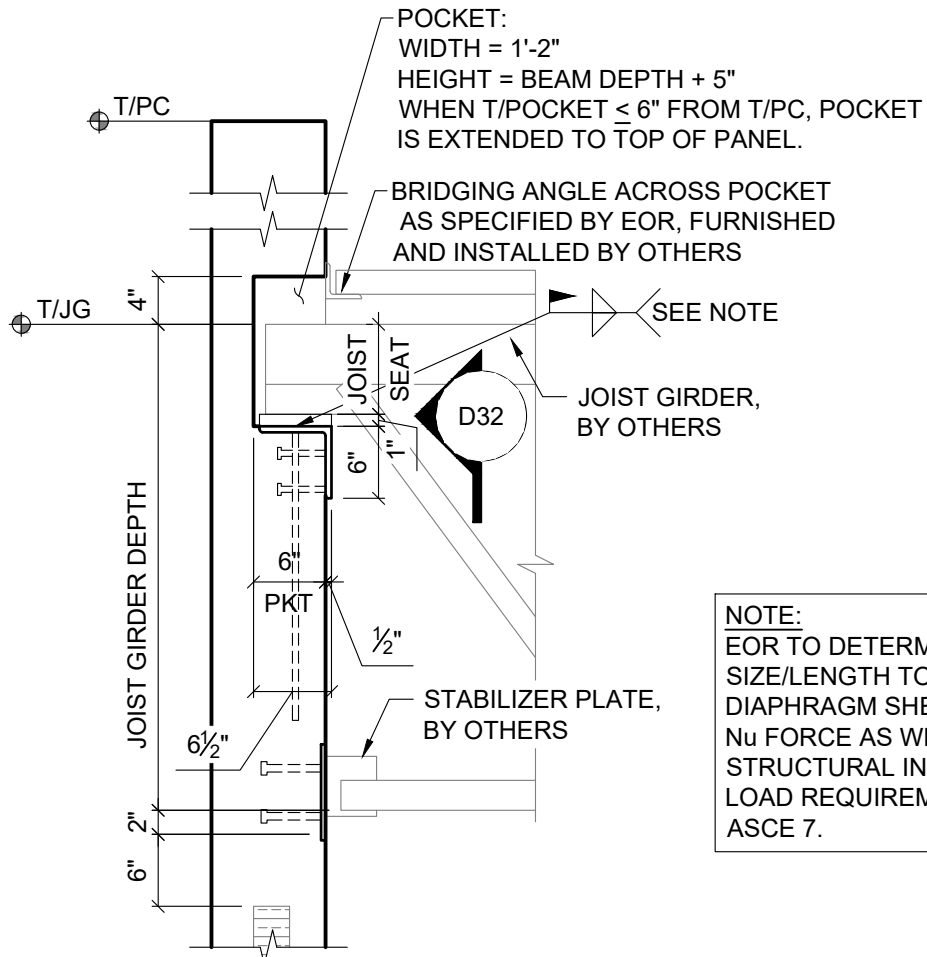
TITLE: SHOP DRAWING DETAILS	BY: ATMI
PROJECT: STANDARDS	D23
ISSUED: 01/09/2017	
REVISED:  01/28/2020	



**D30** JOIST GIRDER POCKET  
SCALE: 3/4" = 1'-0"

**NOTE:**  
EOR TO DETERMINE WELD SIZE/LENGTH TO TRANSFER DIAPHRAGM SHEAR AND/OR Nu FORCE AS WELL AS MEET STRUCTURAL INTEGRITY LOAD REQUIREMENTS OF ASCE 7.

	TITLE: SHOP DRAWING DETAILS	BY: ATMI
	PROJECT: STANDARDS	<h1>D30</h1>
	ISSUED: 01/09/2017	




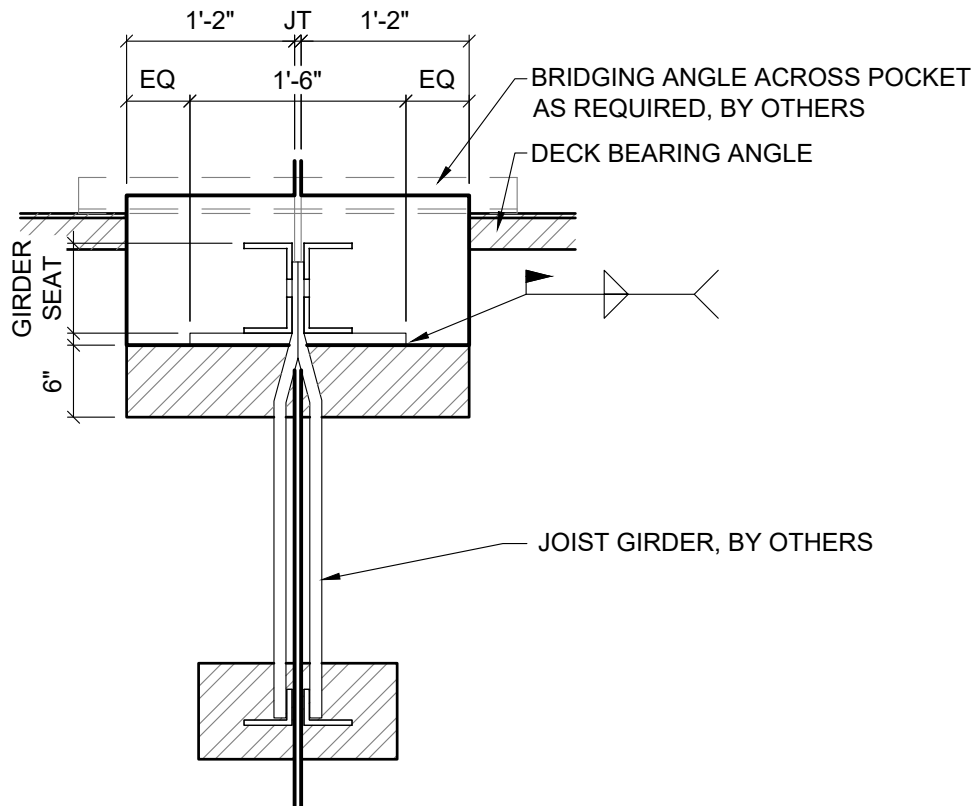
**NOTE:**  
 EOR TO DETERMINE WELD  
 SIZE/LENGTH TO TRANSFER  
 DIAPHRAGM SHEAR AND/OR  
 Nu FORCE AS WELL AS MEET  
 STRUCTURAL INTEGRITY  
 LOAD REQUIREMENTS OF  
 ASCE 7.

**JOIST GIRDER POCKET  
 AT PANEL JOINT**

D31


SCALE: 3/4" = 1'-0"

	TITLE: SHOP DRAWING DETAILS	BY: ATMI
	PROJECT: STANDARDS	<h1>D31</h1>
	ISSUED: 01/09/2017	

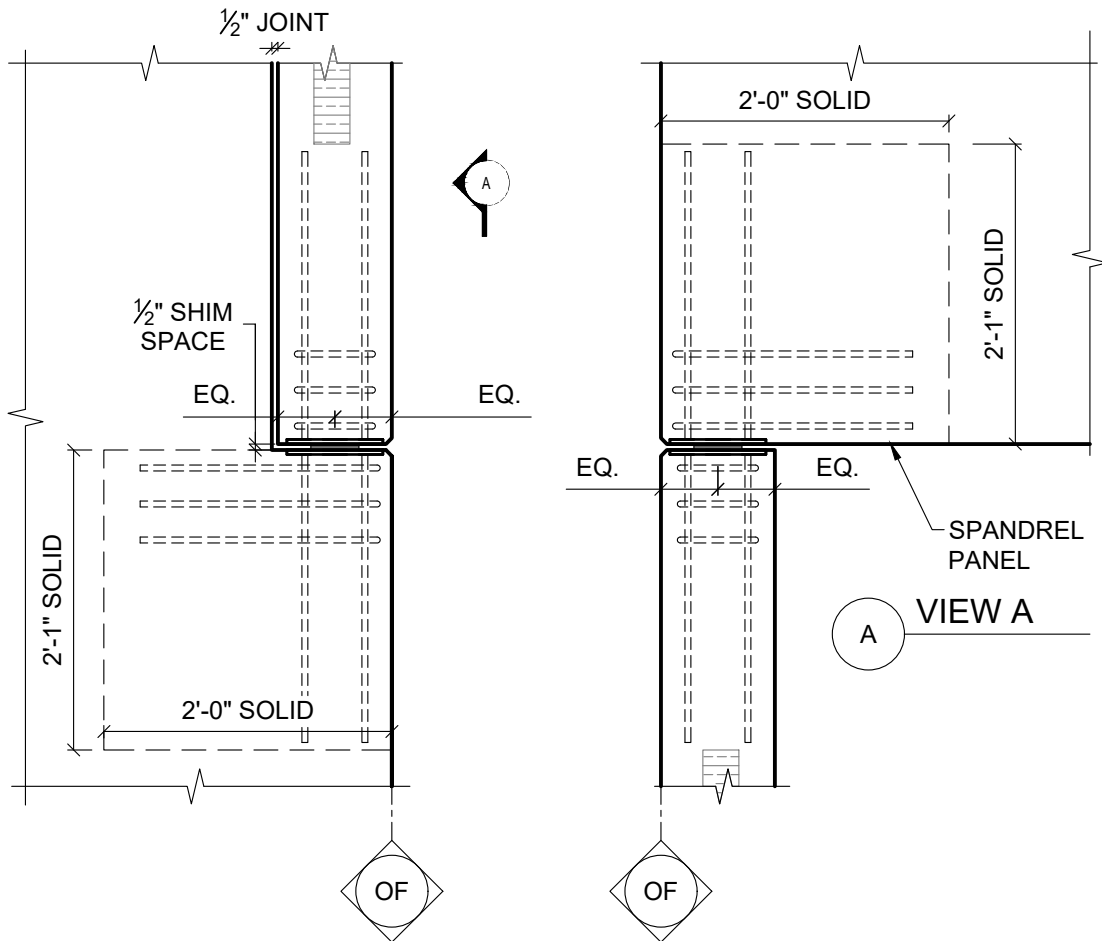


**JOIST GIRDER POCKET  
AT PANEL JOINT**

D32  
SCALE: 3/4" = 1'-0"

	TITLE: SHOP DRAWING DETAILS	BY: ATMI
	PROJECT: STANDARDS	<h1>D32</h1>
	ISSUED: 01/09/2017	

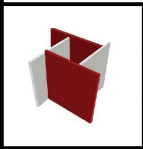





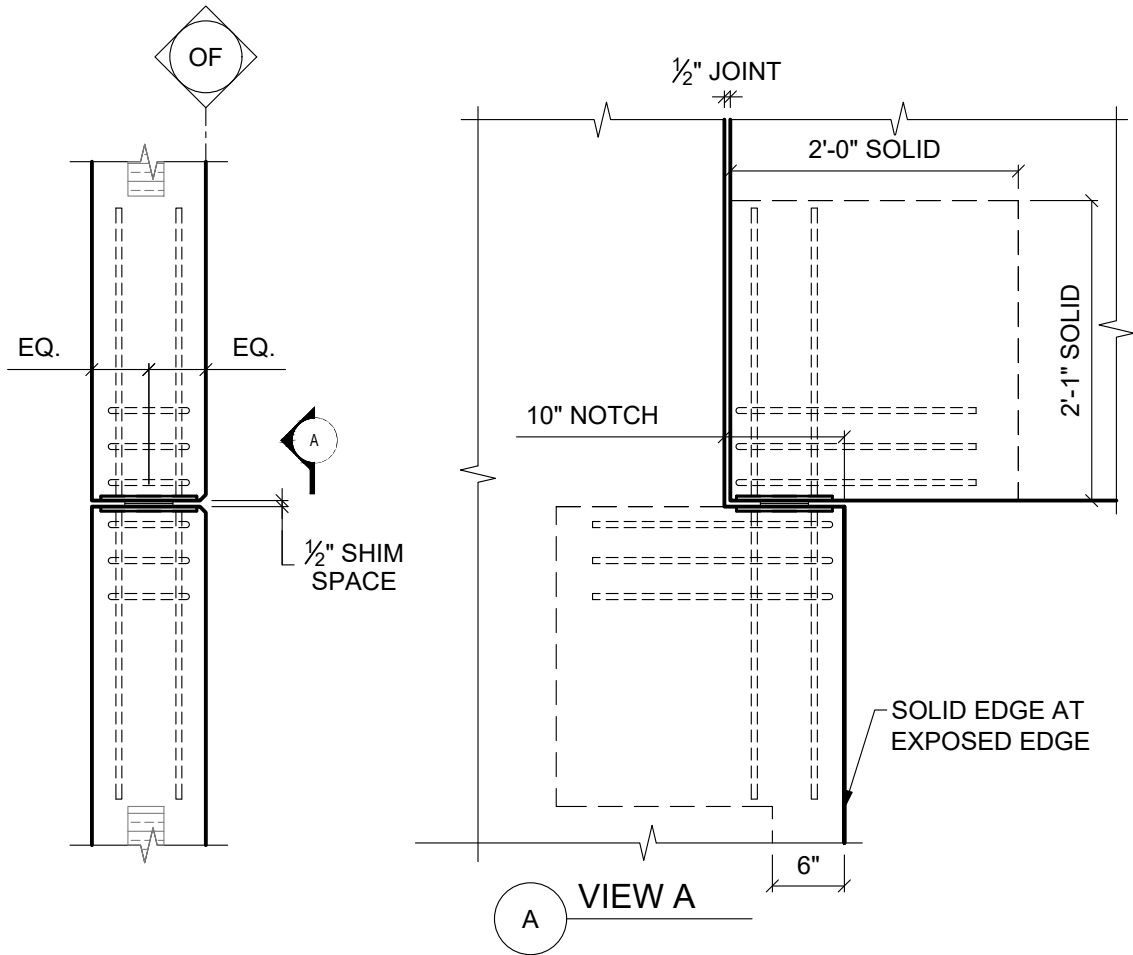
PERPENDICULAR NOTCHED BEARING

D33

SCALE: 3/4" = 1'-0"



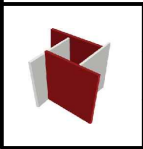
TITLE: SHOP DRAWING DETAILS	BY: ATMI
PROJECT: STANDARDS	D33
ISSUED: 07/01/2019	
REVISED:  01/28/2020	




PARALLEL NOTCHED BEARING

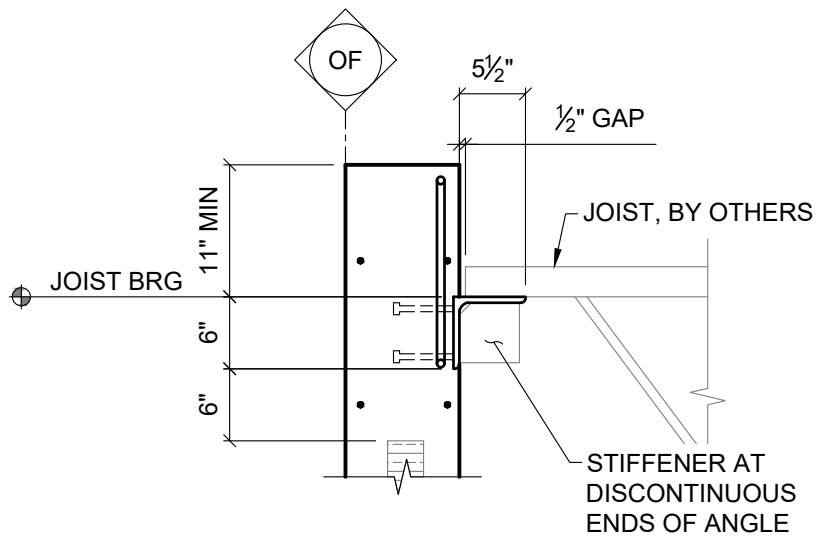
D34

SCALE: 3/4" = 1'-0"




TITLE: SHOP DRAWING DETAILS	BY: ATMI
PROJECT: STANDARDS	D34
ISSUED: 07/01/2019	
REVISED:  01/28/2020	

**NOTE:**  
 BEARING ANGLE IS DISCONTINUOUS AT  
 PRECAST JOINTS. IF SPLICE IS REQUIRED  
 BY EOR, CONNECTION IS NOT BY ATMI.  
 EOR TO COORDINATE WITH GC.

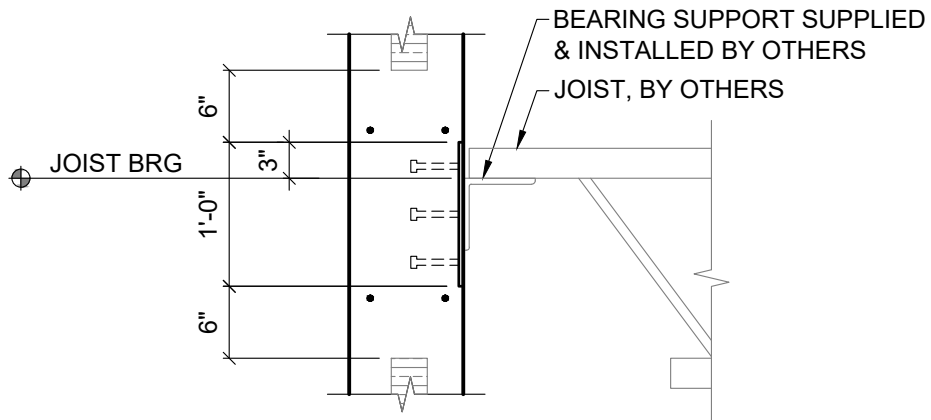


**D36** JOIST BEARING ANGLE  
 SCALE: 3/4" = 1'-0"

	TITLE: SHOP DRAWINGS DETAILS	BY: ATMI
	PROJECT: STANDARDS	<h1>D36</h1>
	ISSUED: 01/09/2017	

NOTE:

EMBED PLATE MAY BE CAST TIPPED OR NOT CAST FLUSH WHILE STILL REMAINING WITHIN PCI TOLERANCES. EOR TO REVIEW THE FINAL CONFIGURATION OF THE INSTALLED EMBED WITH GC AND PROVIDE THE STEEL FABRICATOR WITH A DETAIL (USE OF SHIM BARS OR PLATES TO COMPENSATE FOR THE PRECAST EMBED TOLERANCES) THAT FACILITATES THE WELD CONNECTION BETWEEN THE BEARING STEEL AND THE EMBED.



**BEARING  
EMBED**

D37

SCALE: 3/4" = 1'-0"



TITLE: SHOP DRAWING DETAILS

BY: ATMI

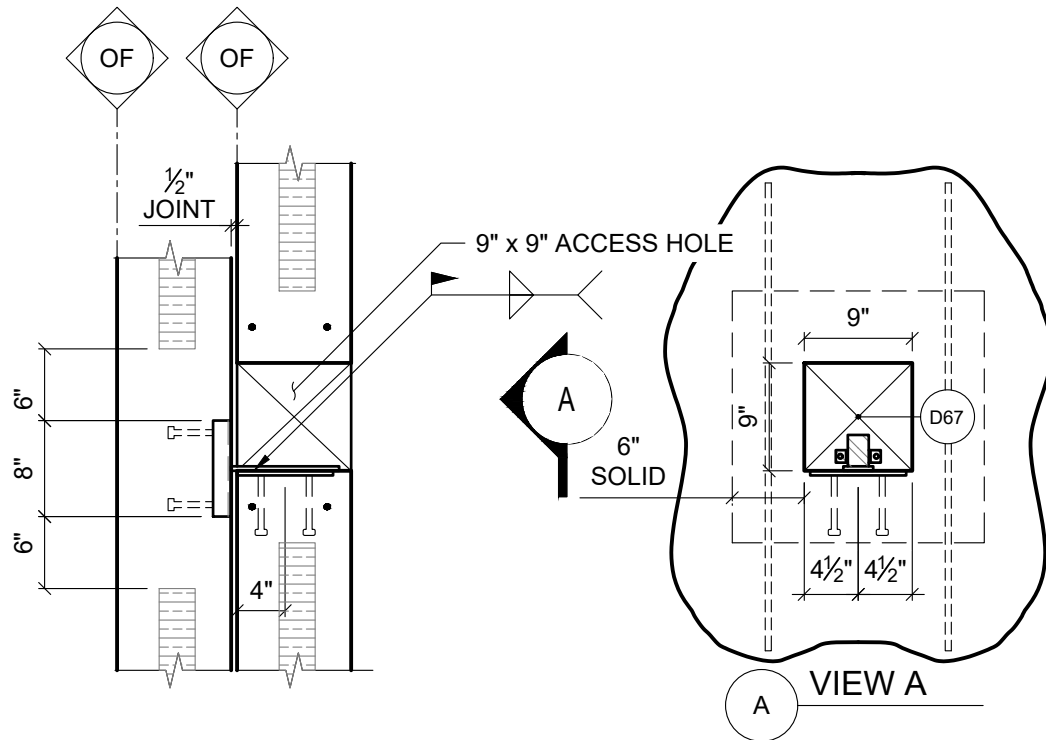
PROJECT: STANDARDS

ISSUED: 01/12/2018

REVISED: 2


03/28/2018

**D37**

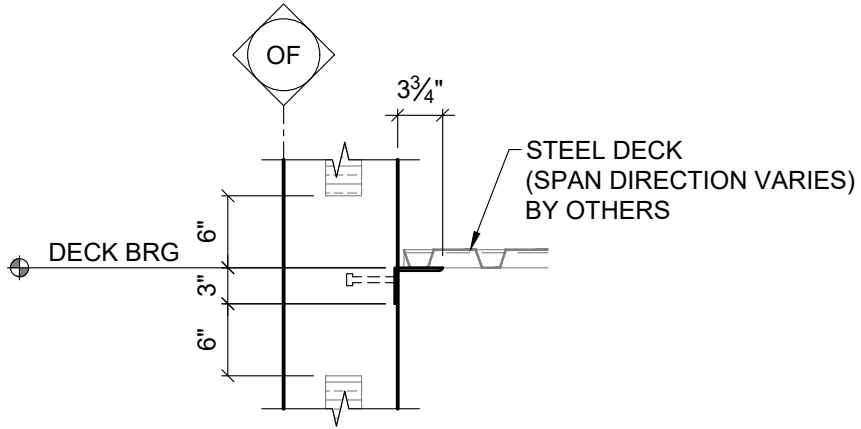


PANEL TO PANEL  
TIE BACK

D39  
SCALE: 3/4" = 1'-0"


	TITLE: SHOP DRAWING DETAILS	BY: ATMI
	PROJECT: STANDARDS	<h1>D39</h1>
	ISSUED: 07/01/2019	

NOTE:  
 BEARING ANGLE IS DISCONTINUOUS AT  
 PRECAST JOINTS. IF SPLICE IS REQUIRED  
 BY EOR, CONNECTION IS NOT BY ATMI.  
 EOR TO COORDINATE WITH GC.



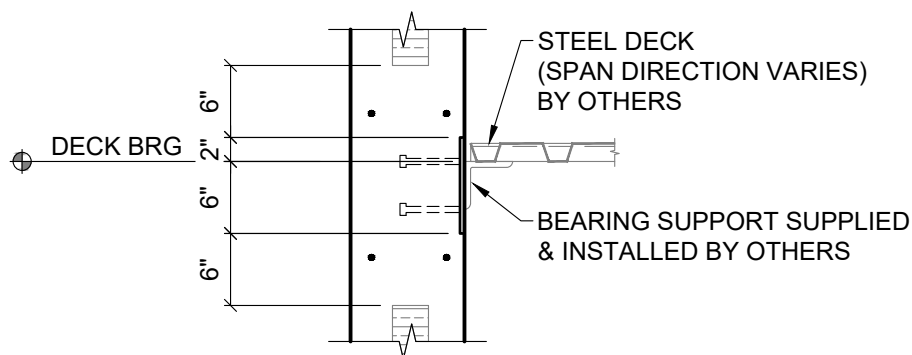
**DECK BEARING  
 AT EMBED ANGLE**

D40  
 SCALE: 3/4" = 1'-0"

	TITLE: SHOP DRAWING DETAILS	BY: ATMI
	PROJECT: STANDARDS	<h1>D40</h1>
	ISSUED: 01/09/2017	

**NOTE:**

EMBED PLATE MAY BE CAST TIPPED OR NOT CAST FLUSH WHILE STILL REMAINING WITHIN PCI TOLERANCES. EOR TO REVIEW THE FINAL CONFIGURATION OF THE INSTALLED EMBED WITH GC AND PROVIDE THE STEEL FABRICATOR WITH A DETAIL (USE OF SHIM BARS OR PLATES TO COMPENSATE FOR THE PRECAST EMBED TOLERANCES) THAT FACILITATES THE WELD CONNECTION BETWEEN THE BEARING STEEL AND THE EMBED.



**DECK BEARING AT  
INTERMITTENT EMBED**

D41

SCALE: 3/4" = 1'-0"




TITLE: SHOP DRAWING DETAILS

BY: ATMI

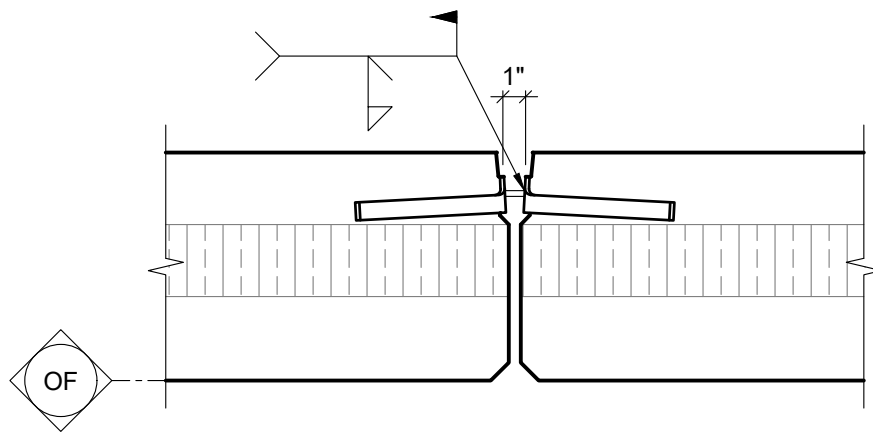
PROJECT: STANDARDS

ISSUED: 01/09/2017

REVISED: 

01/28/2020

**D41**



ALIGNMENT/SHEAR  
CONNECTION

D44

SCALE: 1 1/2" = 1'-0"




TITLE: SHOP DRAWING DETAILS

BY: ATMI

PROJECT: STANDARDS

ISSUED: 01/09/2017

REVISED: 

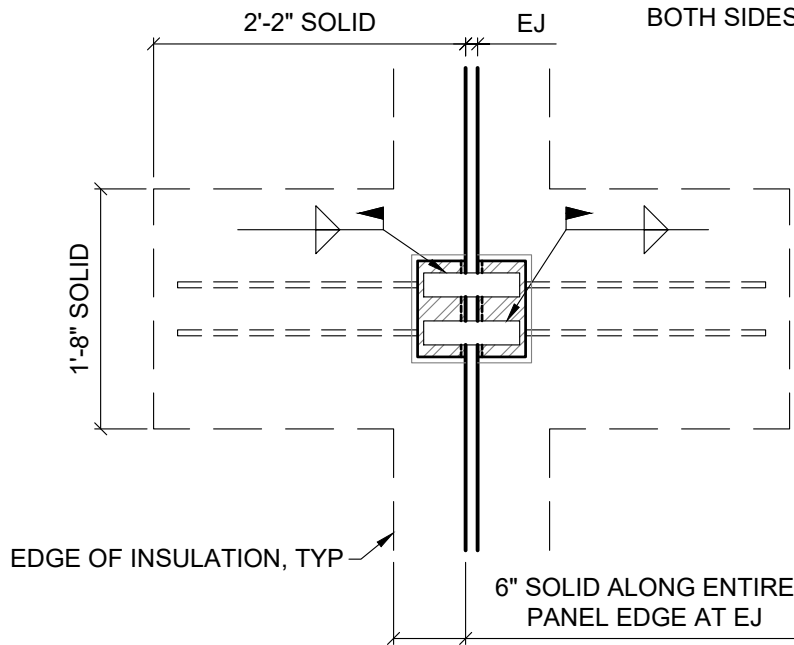
10/04/2019

D44



NOTES:  
 STANDARD DETAIL ALLOWS FOR  
 MAXIMUM 3" EXPANSION JOINT.

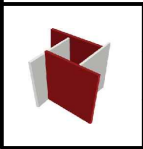
DO NOT WELD EITHER PLATE ON  
 BOTH SIDES OF THE JOINT.




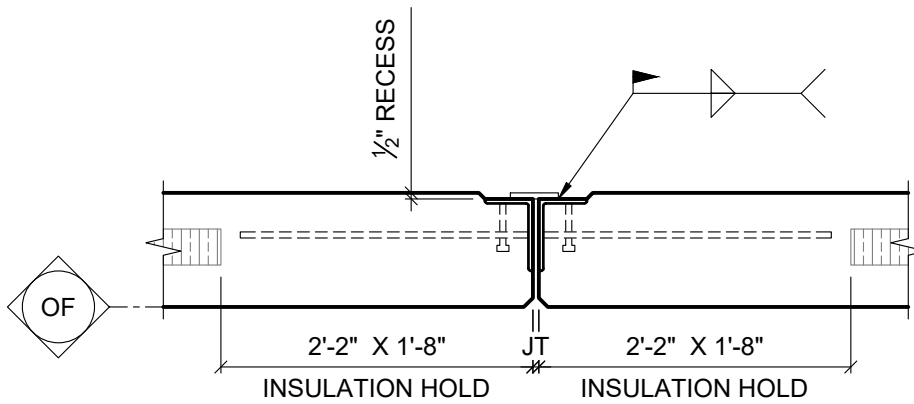
**EXPANSION JOINT  
 ALIGNMENT CONNECTION**

D45


SCALE: 3/4" = 1'-0"

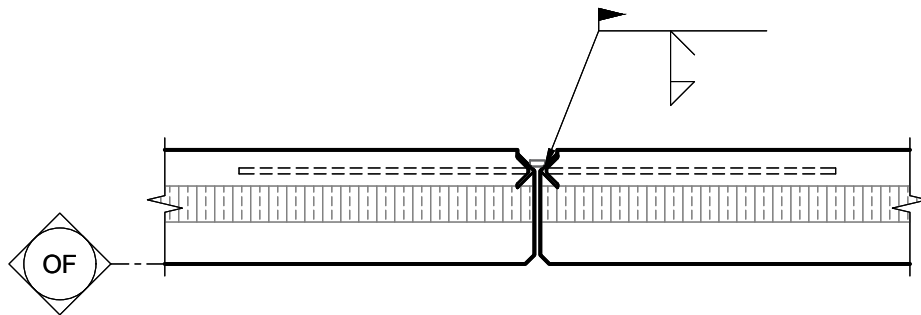


TITLE: SHOP DRAWING DETAILS	BY: ATMI
PROJECT: STANDARDS	D45
ISSUED: 03/03/2017	
REVISED:  01/28/2020	

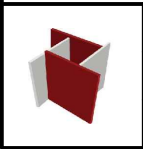



**D46** **PANEL CONNECTION**  
 SCALE: 3/4" = 1'-0"

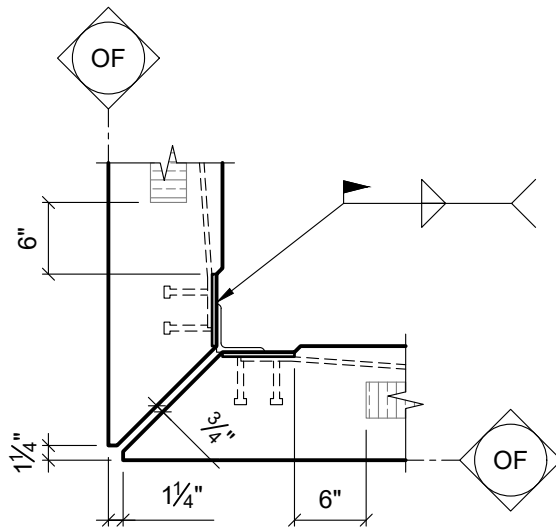
	TITLE: SHOP DRAWING DETAILS	BY: ATMI
	PROJECT: STANDARDS	<h1>D46</h1>
	ISSUED: 01/09/2017	




**D47** SHEAR CONNECTION  
 SCALE: 3/4" = 1'-0"

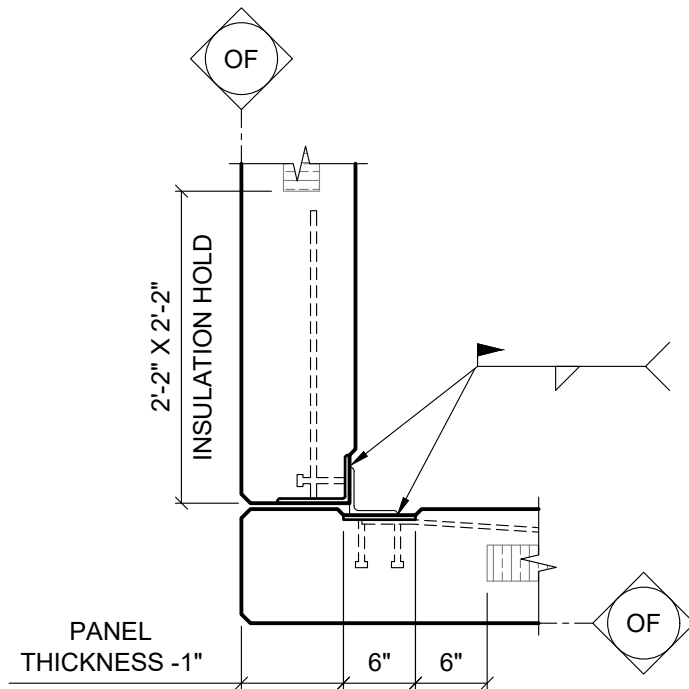


TITLE: SHOP DRAWING DETAILS	BY: ATMI
PROJECT: STANDARDS	<b>D47</b>
ISSUED: 01/09/2017	
REVISED:  10/28/2019	




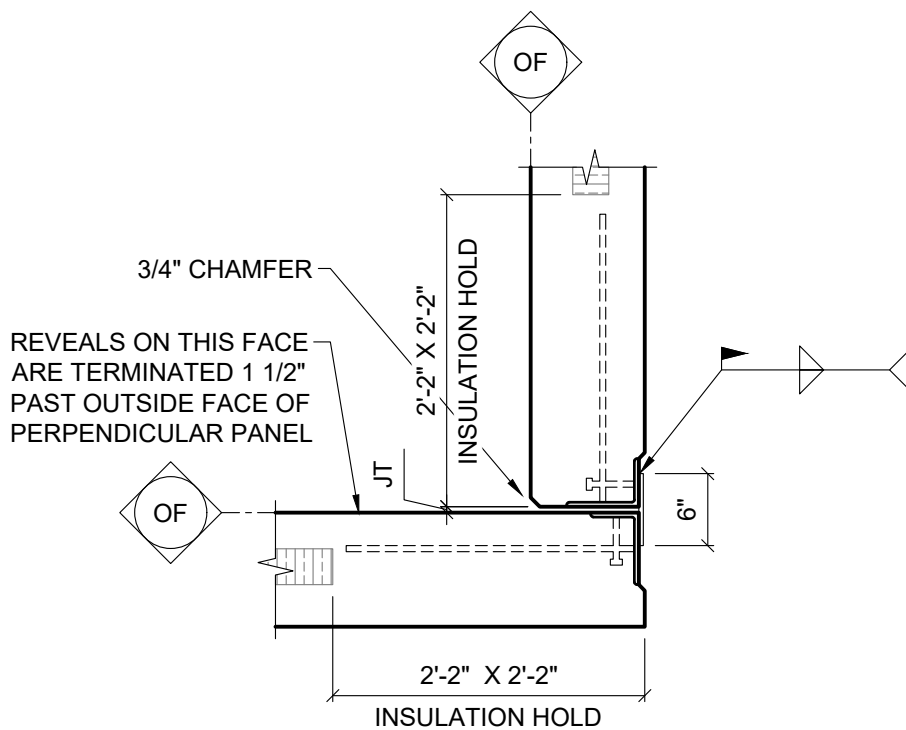
D50
**MITER CORNER**  
 SCALE: 3/4" = 1'-0"

	TITLE: SHOP DRAWING DETAILS		BY: ATMI
	PROJECT: STANDARDS		<span style="font-size: 2em; font-weight: bold;">D50</span>
	ISSUED: 01/09/2017	REVISED: <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">0</span>	

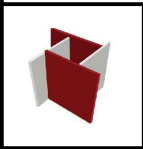



**D51** **OUTSIDE BUTT CORNER**  
 SCALE: 3/4" = 1'-0"

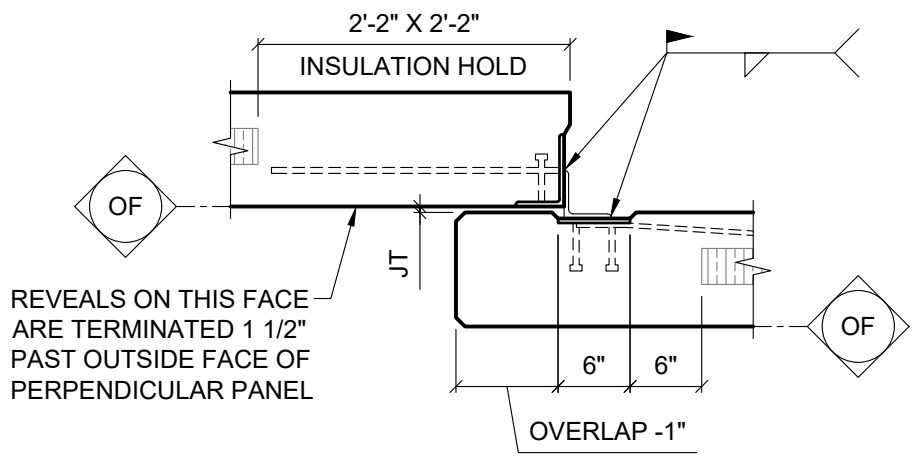
	TITLE: SHOP DRAWING DETAILS	BY: ATMI
	PROJECT: STANDARDS	<b>D51</b>
	ISSUED: 01/09/2017	



**D52** INSIDE BUTT CORNER  
SCALE: 3/4" = 1'-0"




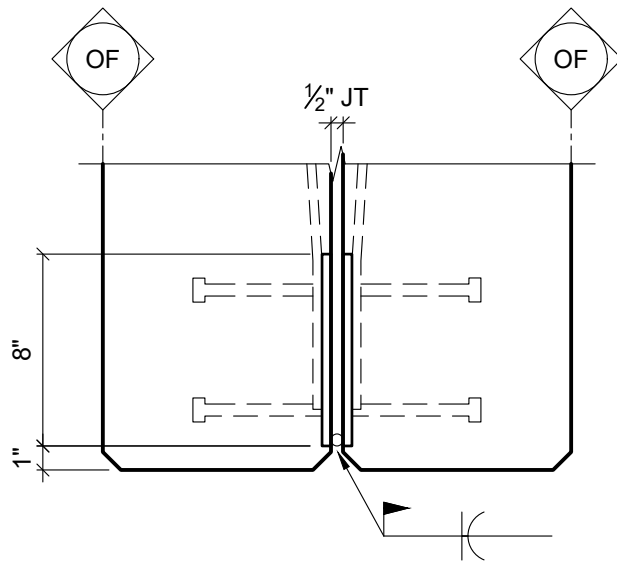
TITLE: SHOP DRAWING DETAILS	BY: ATMI
PROJECT: STANDARDS	<b>D52</b>
ISSUED: 01/09/2017	
REVISED:  1	01/28/2020





REVEALS ON THIS FACE  
ARE TERMINATED 1 1/2"  
PAST OUTSIDE FACE OF  
PERPENDICULAR PANEL

**D53** OVERLAP CORNER  
SCALE: 3/4" = 1'-0"

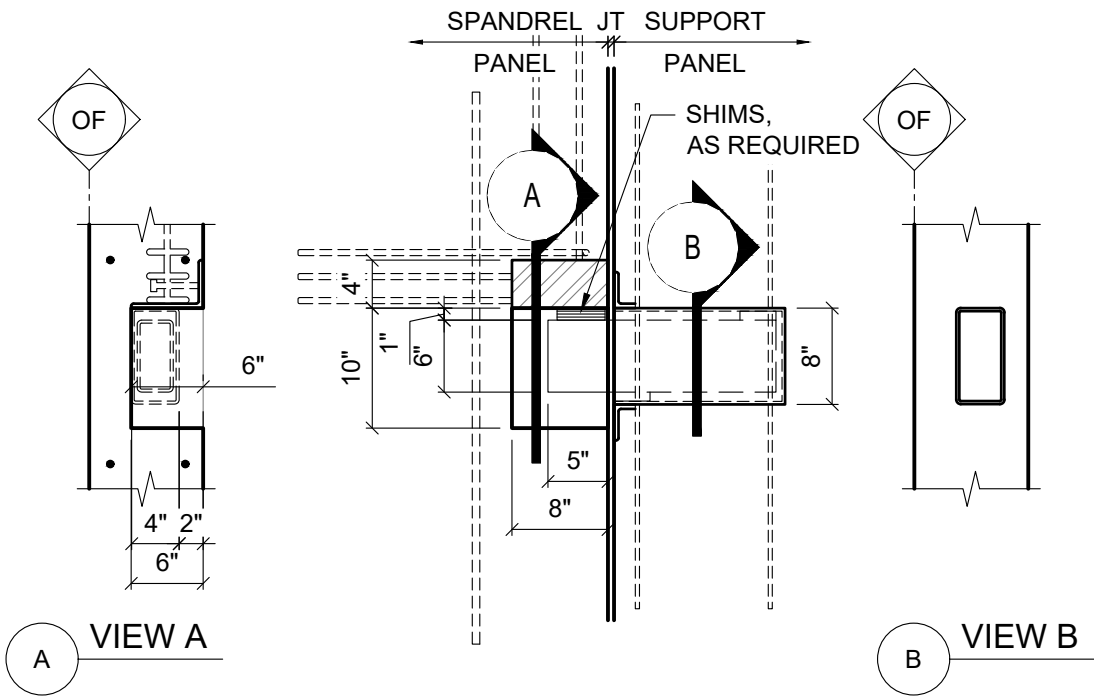
	TITLE: SHOP DRAWING DETAILS	BY: ATMI
	PROJECT: STANDARDS	<h1>D53</h1>
	ISSUED: 01/09/2017	




**D54** **HIDDEN PANEL CONNECTION**  
 SCALE: 1 1/2" = 1'-0"

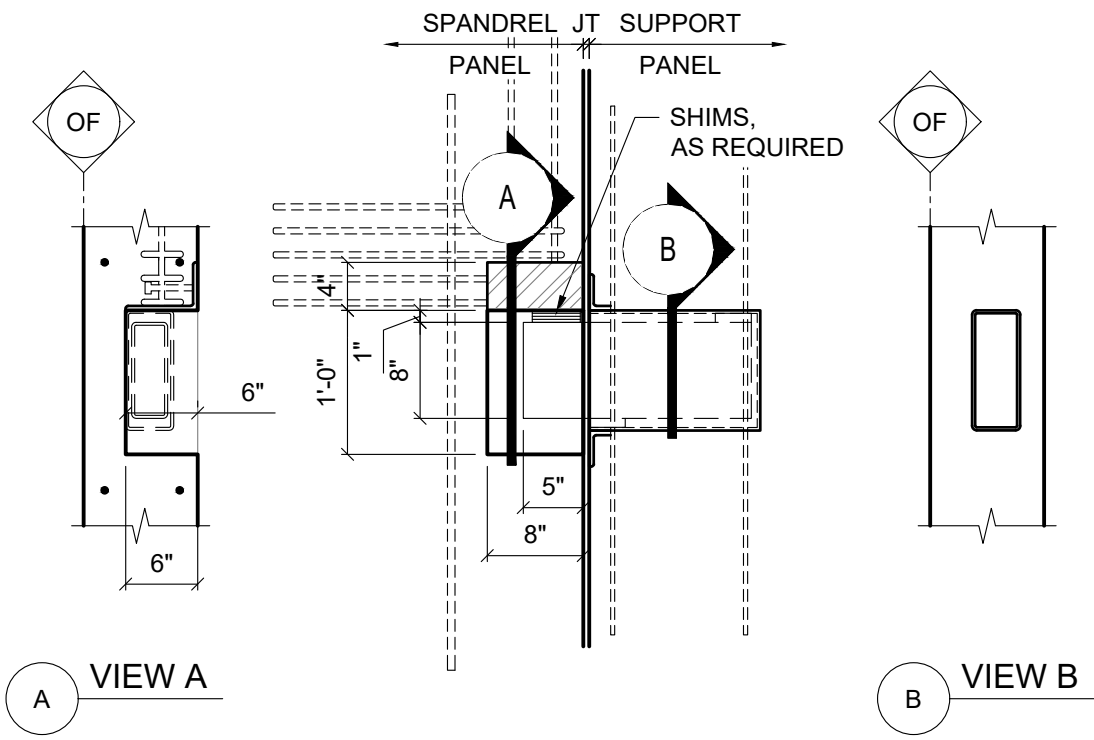
	TITLE: SHOP DRAWING DETAILS		BY: ATMI
	PROJECT: STANDARDS		<h1>D54</h1>
	ISSUED: 01/09/2017	REVISED:  01/28/2020	






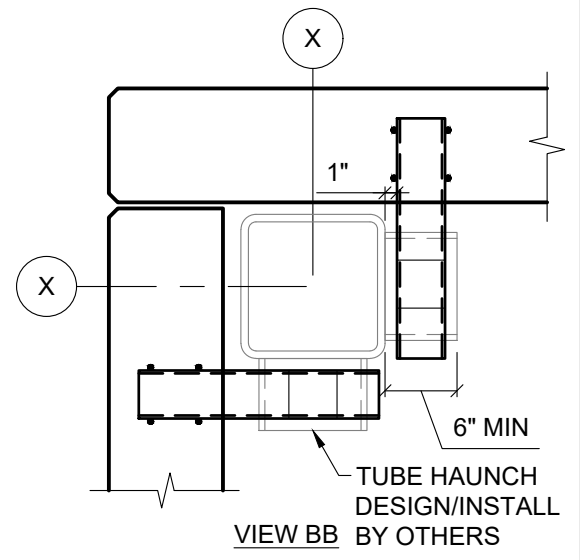
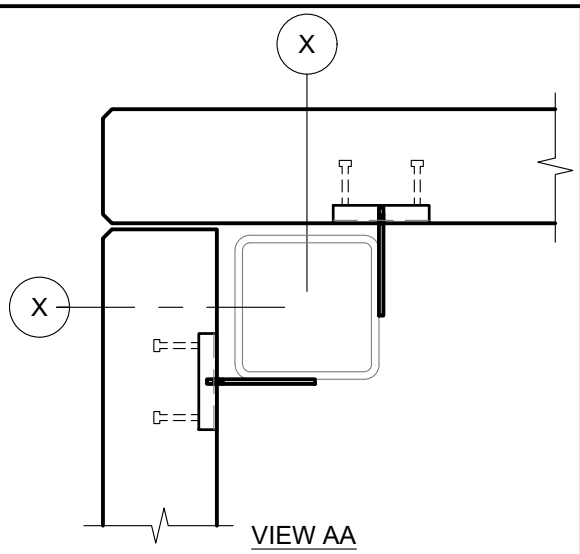
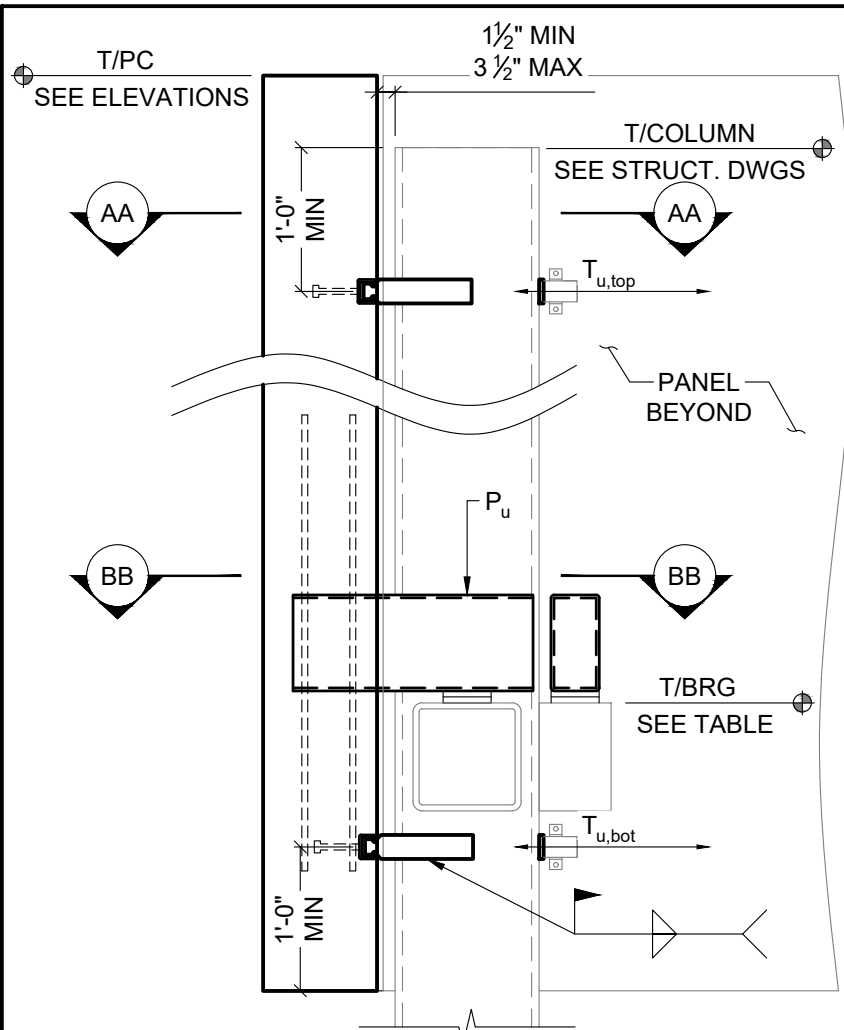
D60 SPANDREL SUPPORT  
 SCALE: 3/4" = 1'-0"

	TITLE: SHOP DRAWING DETAILS	BY: ATMI
	PROJECT: STANDARDS	<h1>D60</h1>
	ISSUED: 01/09/2017	




D61
**HEAVY SPANDREL SUPPORT**  
 SCALE: 3/4" = 1'-0"

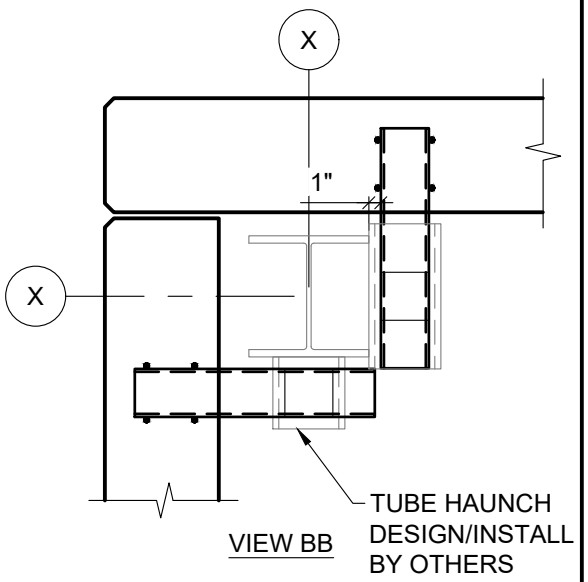
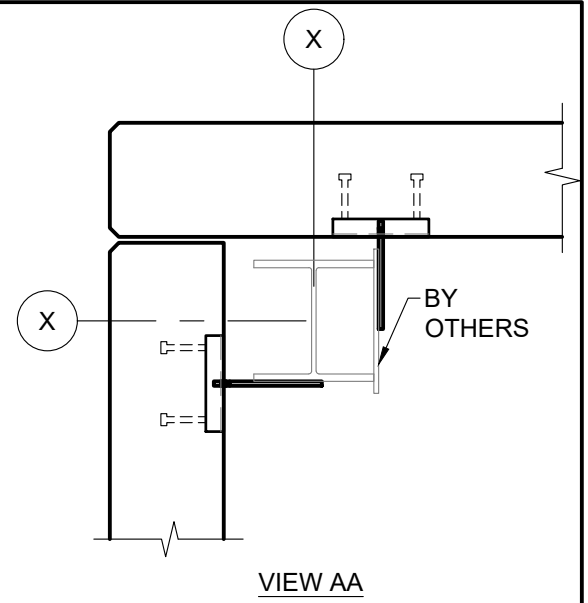
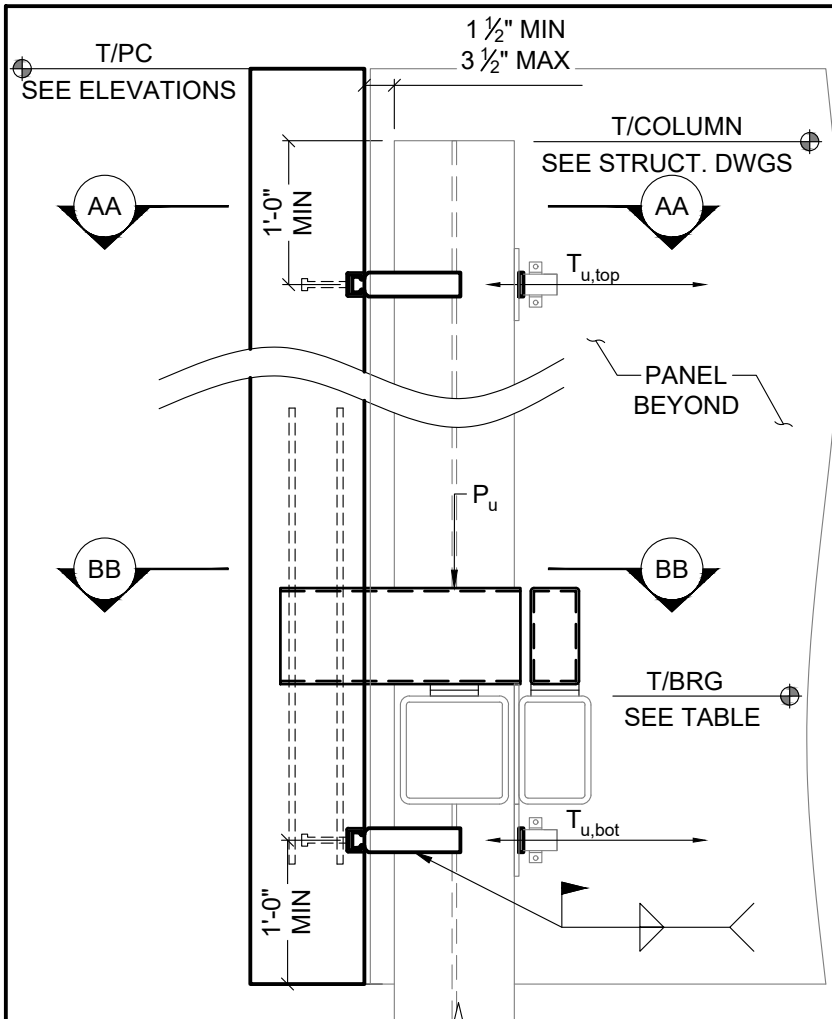
	TITLE: SHOP DRAWING DETAILS	BY: ATMI
	PROJECT: STANDARDS	<span style="font-size: 2em; font-weight: bold;">D61</span>
	ISSUED: 01/09/2017	



D62A SPANDREL TO STEEL COL.  
SCALE: 3/4" = 1'-0"


LOADS IMPOSED BY PRECAST TO  
STRUCTURAL STEEL TO BE PROVIDED ON  
SHOP DRAWINGS FOR DESIGN AND  
COORDINATION BY GC/EOR.

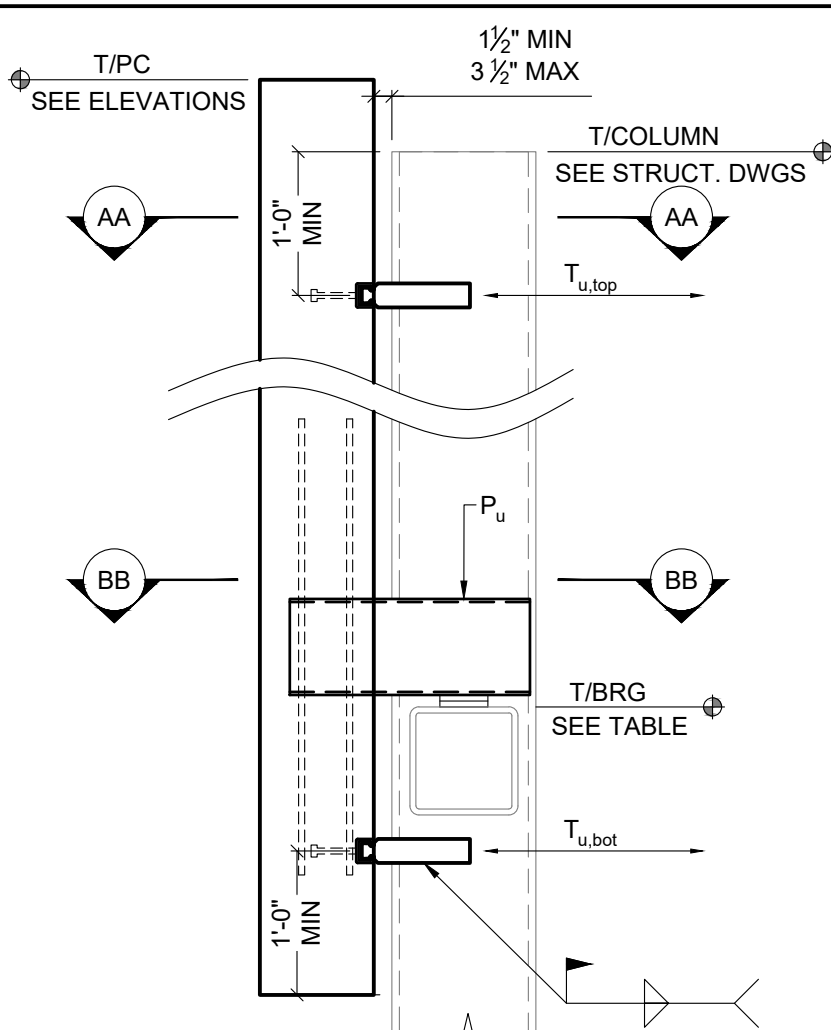
	TITLE: SHOP DRAWING DETAILS	BY: ATMI
	PROJECT: STANDARDS	<h1>D62A</h1>
	ISSUED: 12/11/2018	



**D62C** SPANDREL TO STEEL COL.  
SCALE: 3/4" = 1'-0"

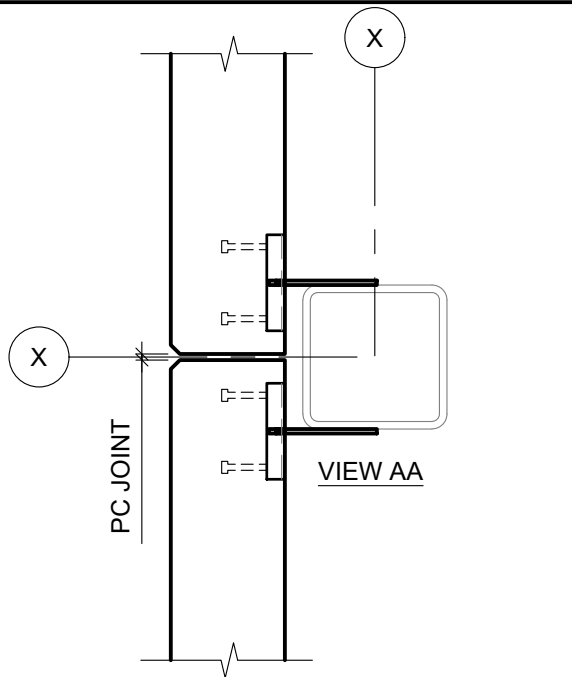
LOADS IMPOSED BY PRECAST TO STRUCTURAL STEEL TO BE PROVIDED ON SHOP DRAWINGS FOR DESIGN AND COORDINATION BY GC/EOR.

	TITLE: SHOP DRAWING DETAILS	BY: ATMI
	PROJECT: STANDARDS	<h1>D62C</h1>
	ISSUED: 12/11/2018	

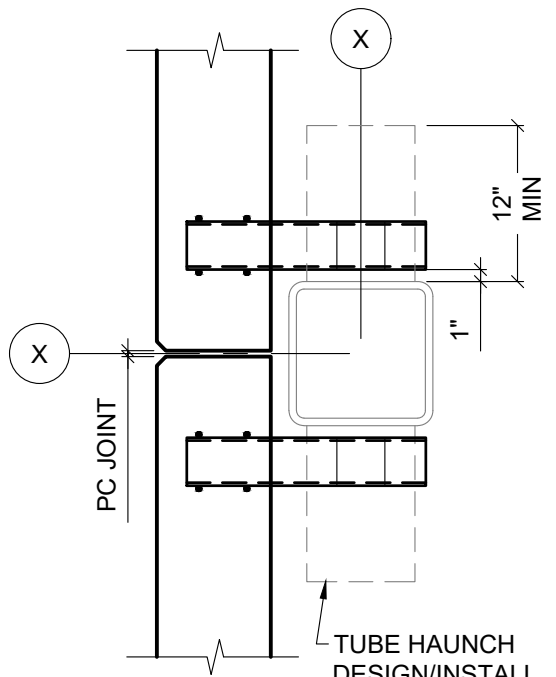


D63A SPANDREL TO COL.-JOINT  
SCALE: 3/4" = 1'-0"

LOADS IMPOSED BY PRECAST TO STRUCTURAL STEEL TO BE PROVIDED ON SHOP DRAWINGS FOR DESIGN AND COORDINATION BY GC/EOR.




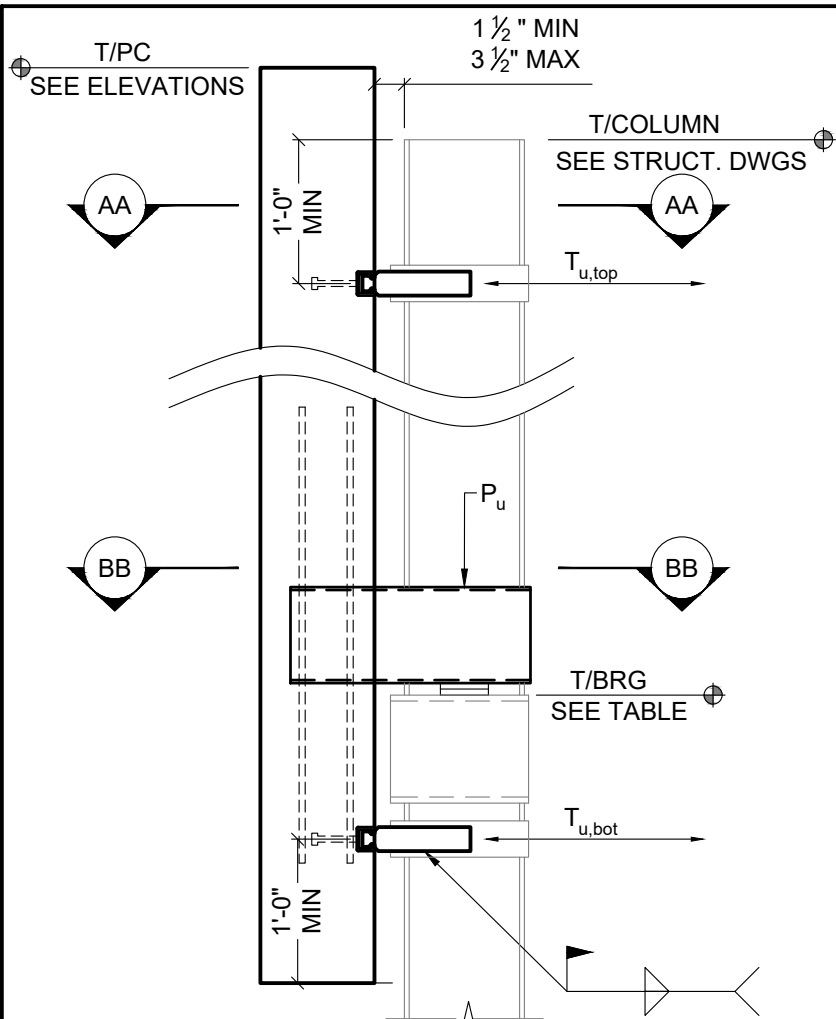
VIEW AA



TUBE HAUNCH DESIGN/INSTALL BY OTHERS

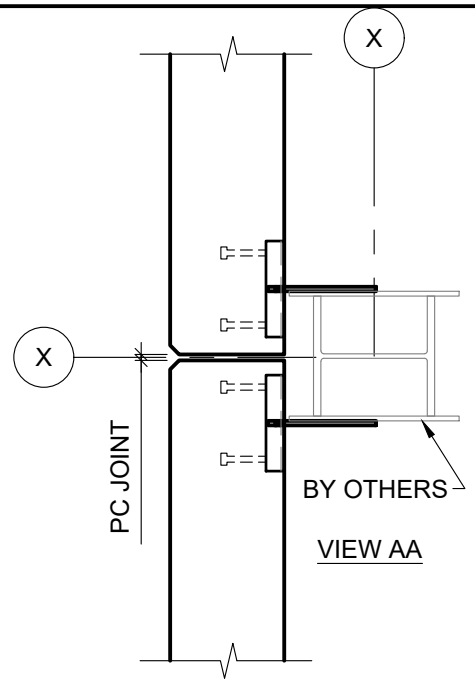
VIEW BB

	TITLE: SHOP DRAWING DETAILS	BY: ATMI
	PROJECT: STANDARDS	<h1>D63A</h1>
	ISSUED: 12/11/2018	

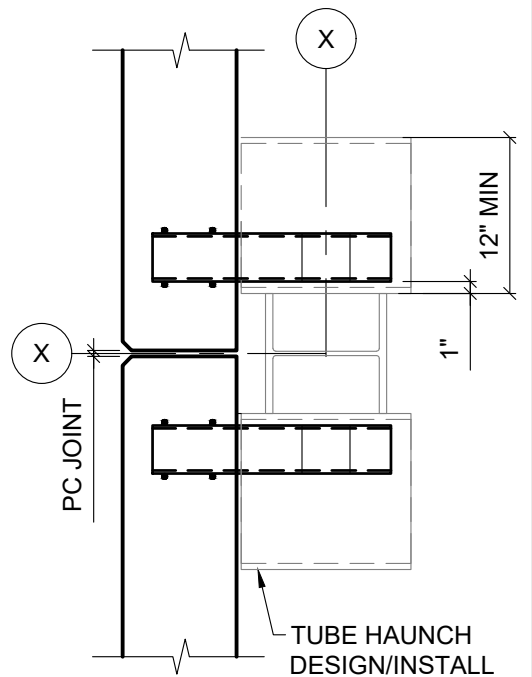


**D63C** SPANDREL TO COL.-JOINT  
SCALE: 3/4" = 1'-0"


LOADS IMPOSED BY PRECAST TO STRUCTURAL STEEL TO BE PROVIDED ON SHOP DRAWINGS FOR DESIGN AND COORDINATION BY GC/EOR.

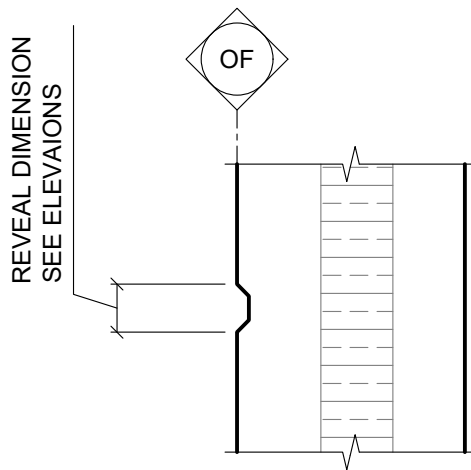


VIEW AA




VIEW BB

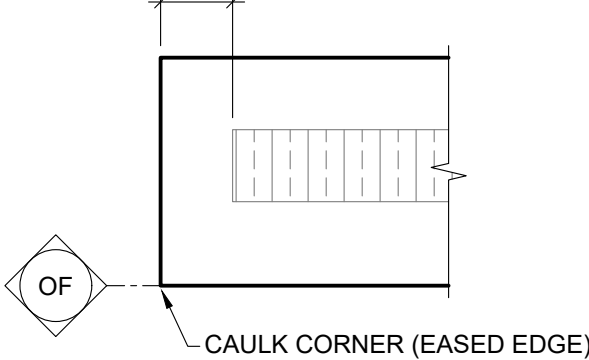
	TITLE: SHOP DRAWING DETAILS	BY: ATMI
	PROJECT: STANDARDS	<h1>D63C</h1>
	ISSUED: 12/11/2018	




**D66** VERTICAL/HORIZONTAL REVEAL  
 SCALE: 1 1/2" = 1'-0"

	TITLE: SHOP DRAWING DETAILS	BY: ATMI
	PROJECT: STANDARDS	<b>D66</b>
	ISSUED: 01/09/2017	

3" MIN  
INSULATION  
HOLD AT  
EXPOSED EDGES

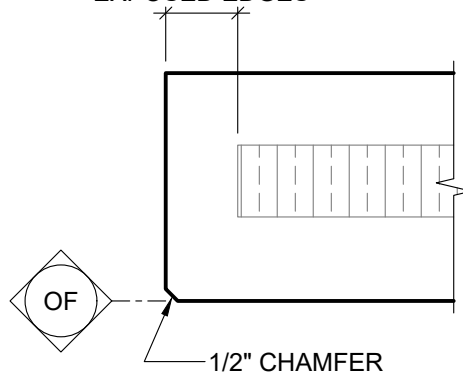


**D67** CAULK CORNER  
SCALE: 1 1/2" = 1'-0"

	TITLE: SHOP DRAWING DETAILS	BY: ATMI
	PROJECT: STANDARDS	<b>D67</b>
	ISSUED: 01/09/2017	



3" MIN  
INSULATION  
HOLD AT  
EXPOSED EDGES



D68 1/2" EDGE CHAMFER  
SCALE: 1 1/2" = 1'-0"




TITLE: SHOP DRAWING DETAILS

BY: ATMI

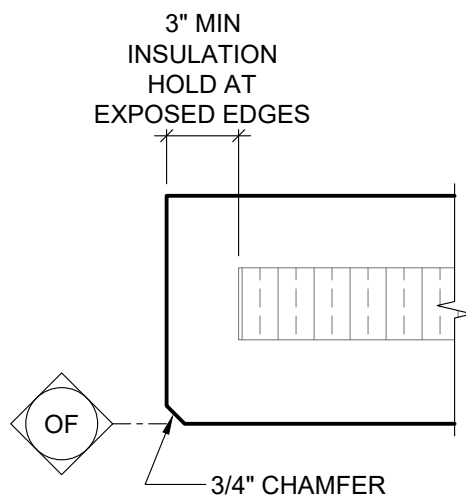
PROJECT: STANDARDS

ISSUED: 01/09/2017

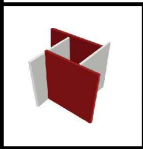
REVISED: 


12/30/2022

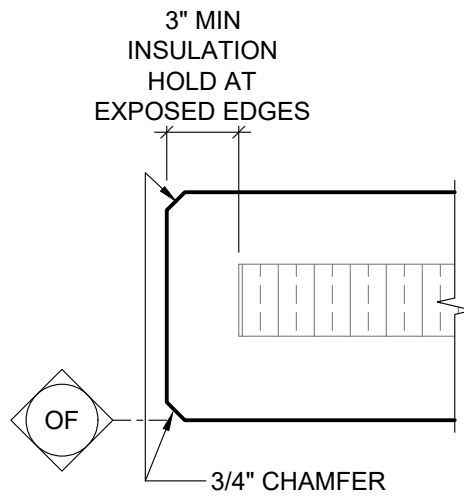
D68



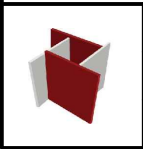
D69 3/4" EDGE CHAMFER  
SCALE: 1 1/2" = 1'-0"




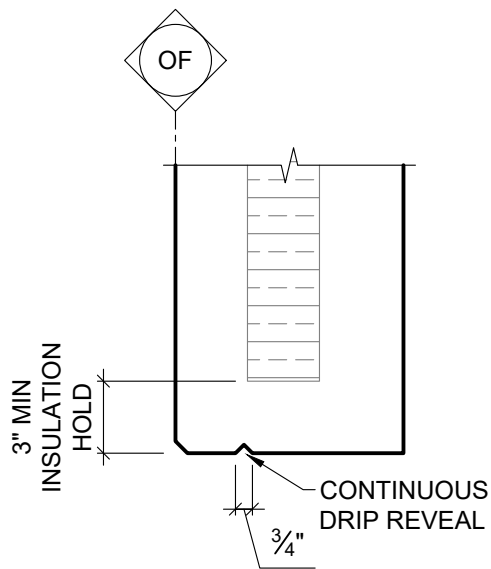
TITLE: SHOP DRAWING DETAILS	BY: ATMI
PROJECT: STANDARDS	D69
ISSUED: 01/09/2017	
REVISED:  1	12/30/2022



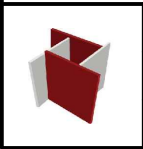
**D70** 3/4" EDGE CHAMFER ON EACH FACE  
 SCALE: 1 1/2" = 1'-0"



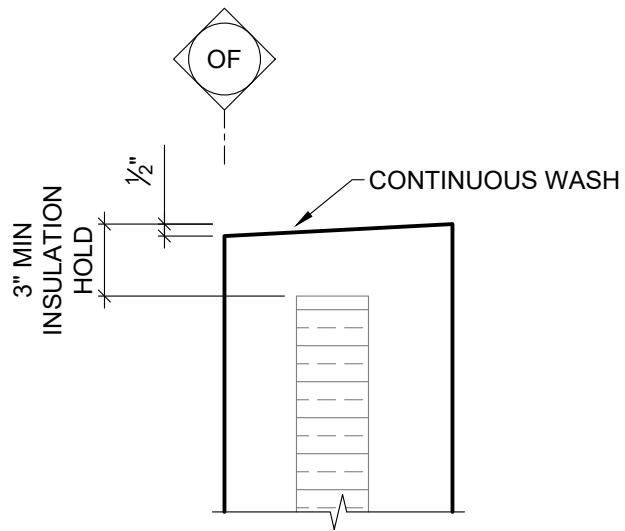
TITLE: SHOP DRAWING DETAILS	BY: ATMI
PROJECT: STANDARDS	<b>D70</b>
ISSUED: 01/09/2017	
REVISED:  1	12/30/2022



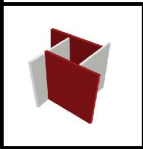
D71
**DRIP REVEAL**  
 SCALE: 1 1/2" = 1'-0"




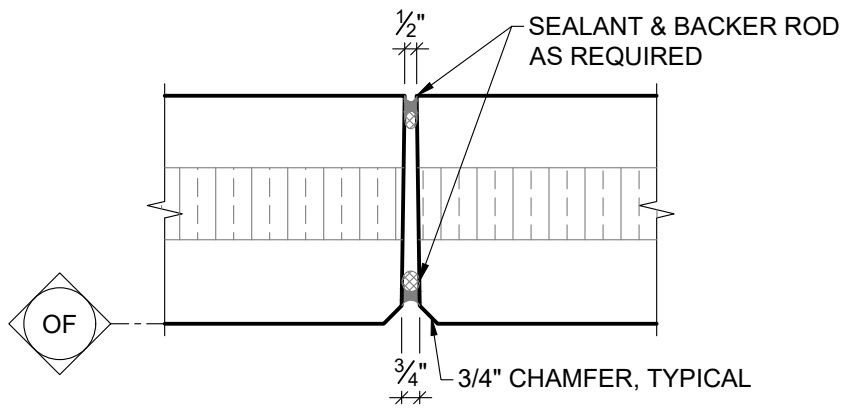
TITLE: SHOP DRAWING DETAILS		BY: ATMI
PROJECT: STANDARDS		D71
ISSUED: 01/09/2017	REVISED:  12/30/2022	





**D72** SILL WASH  
SCALE: 1 1/2" = 1'-0"

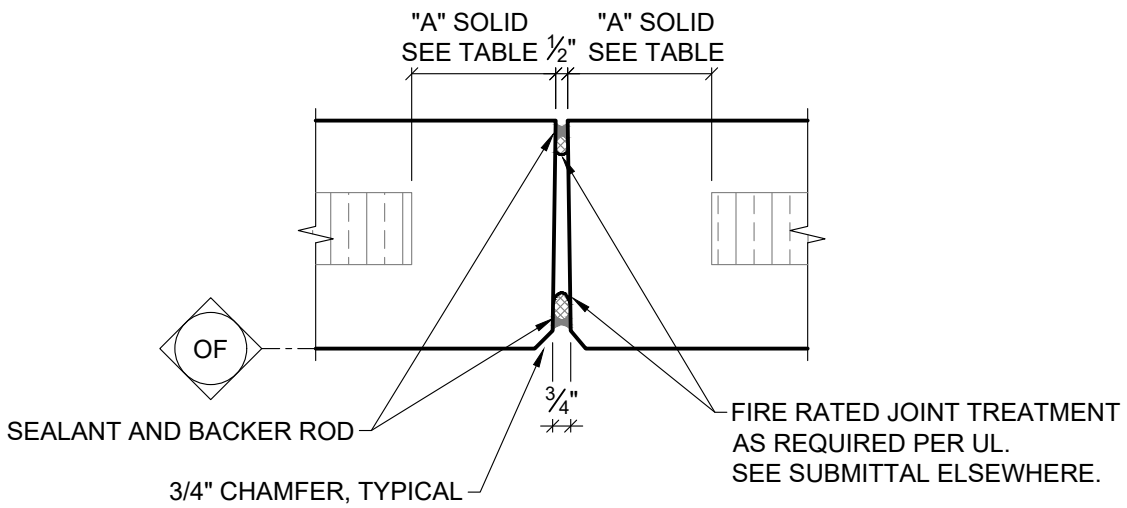


TITLE: SHOP DRAWING DETAILS	BY: ATMI
PROJECT: STANDARDS	<b>D72</b>
ISSUED: 01/09/2017	
REVISED:  12/30/2022	



D73 PANEL JOINT  
SCALE: 1 1/2" = 1'-0"

	TITLE: SHOP DRAWING DETAILS		BY: ATMI
	PROJECT: STANDARDS		<h1>D73</h1>
	ISSUED: 01/09/2017	REVISED:  12/30/2022	



A	FIRE RATING
0"	1 & 2 HOUR
6"	3 HOUR
8"	4 HOUR

**D74** FIRE RATED PANEL JOINT  
SCALE: 1 1/2" = 1'-0"




TITLE: SHOP DRAWING DETAILS

BY: ATMI

PROJECT: STANDARDS

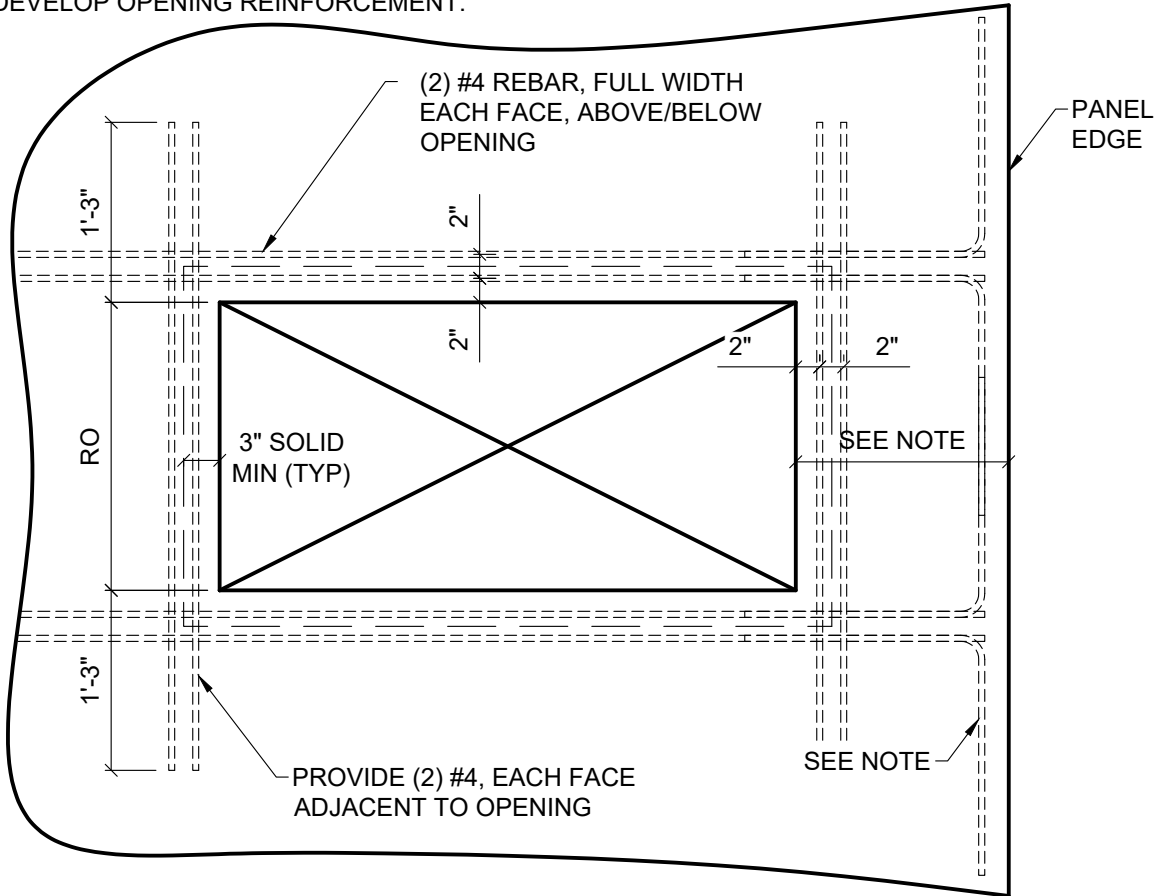
ISSUED: 01/09/2017

REVISED: 


12/30/2022

**D74**

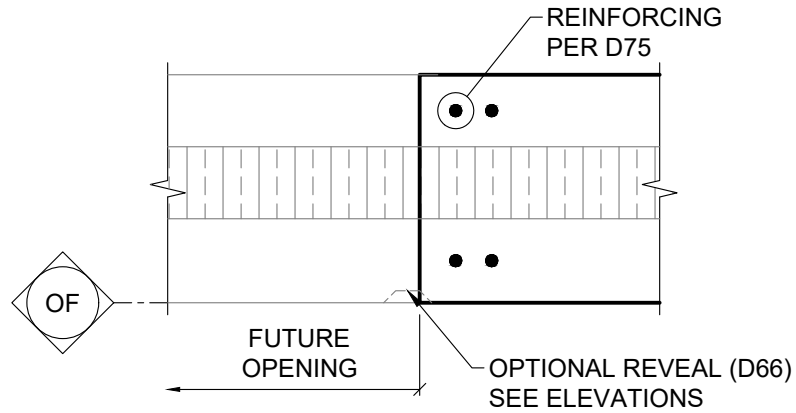
NOTE:  
 WHEN CONCRETE JAMB IS LESS THAN  
 1'-5", PROVIDE L-BARS TO FULLY  
 DEVELOP OPENING REINFORCEMENT.



**D75** REINFORCING AROUND OPENINGS  
 SCALE: 3/4" = 1'-0"

	TITLE: SHOP DRAWING DETAILS	BY: ATMI
	PROJECT: STANDARDS	<h1>D75</h1>
	ISSUED: 09/06/2018	





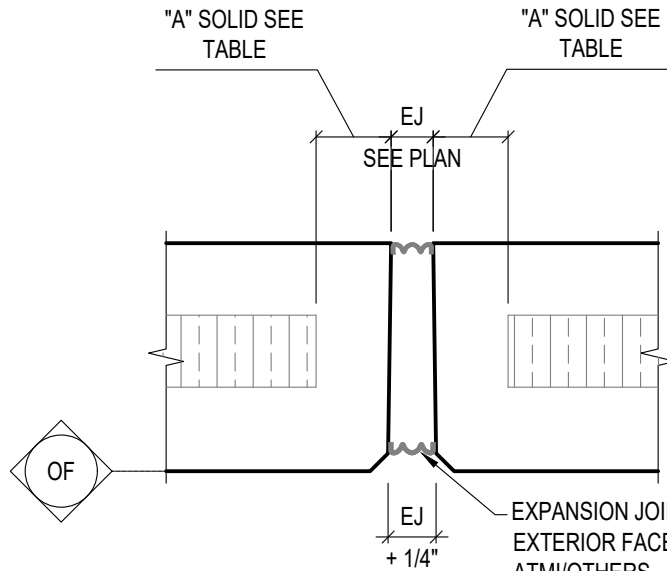


**NOTE:**  
 ALL PANELS INDICATED ON SHOP DRAWING ELEVATIONS WITH FUTURE OPENINGS  
 HAVE BEEN DESIGNED BY ATMI TO BE MODIFIED WITHOUT ADDITIONAL STRUCTURAL  
 CONSIDERATIONS. POTENTIAL GROUTING OF EXPOSED INSULATED EDGES IS  
 DETERMINED AND DESIGNED BY OTHERS.

**DETAILING AROUND  
 FUTURE OPENINGS**

D76  
 SCALE: 1 1/2" = 1'-0"

	TITLE: SHOP DRAWING DETAILS		BY: ATMI
	PROJECT: STANDARDS		<h1>D76</h1>
	ISSUED: 09/09/2021	REVISED:  03/28/2022	

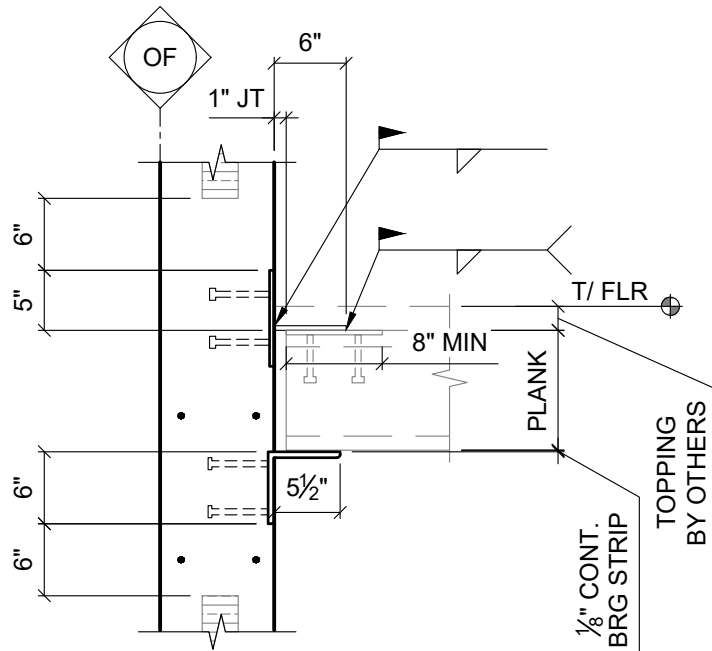


EXPANSION JOINT MATERIAL AT INTERIOR AND EXTERIOR FACE SUPPLIED AND INSTALLED BY ATMI/OTHERS.  
 (REVIEW W. PM, UPDATE THE ABOVE BASED ON PROPOSAL AND DISCUSSION & DELETE THIS COMMENT PRIOR TO PRINTING)


A	EJ WIDTH
0"	2" OR LESS
3"	MORE THAN 2"

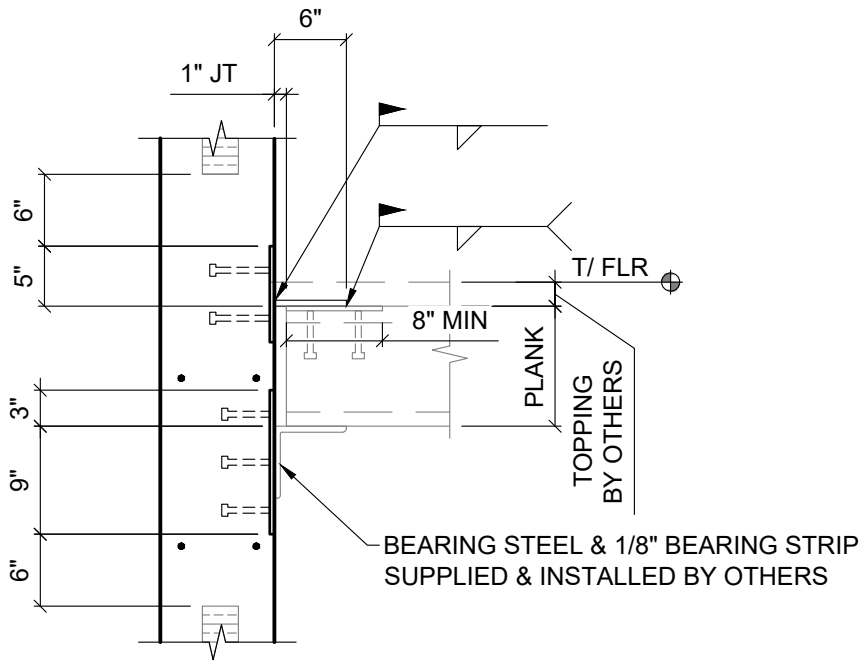
**D77A** EXPANSION JOINT - 2 LINES  
 SCALE: 1 1/2" = 1'-0"

	TITLE: SHOP DRAWING DETAILS	BY: ATMI
	PROJECT: STANDARDS	<b>D77A</b>
	ISSUED: 03/13/2023	




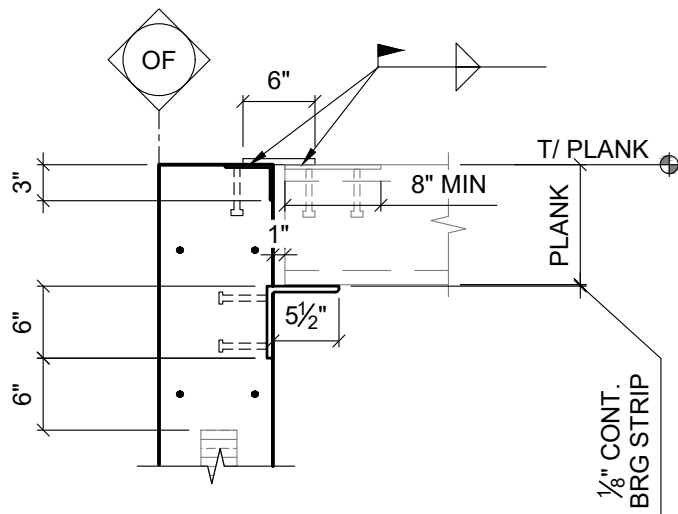
**D80** PLANK BEARING ANGLE  
 SCALE: 3/4" = 1'-0"

	TITLE: SHOP DRAWING DETAILS		BY: ATMI
	PROJECT: STANDARDS		
	ISSUED: 01/09/2017	REVISED: <span style="border: 1px solid black; padding: 2px;">4</span>	01/28/2020
<b>D80</b>			




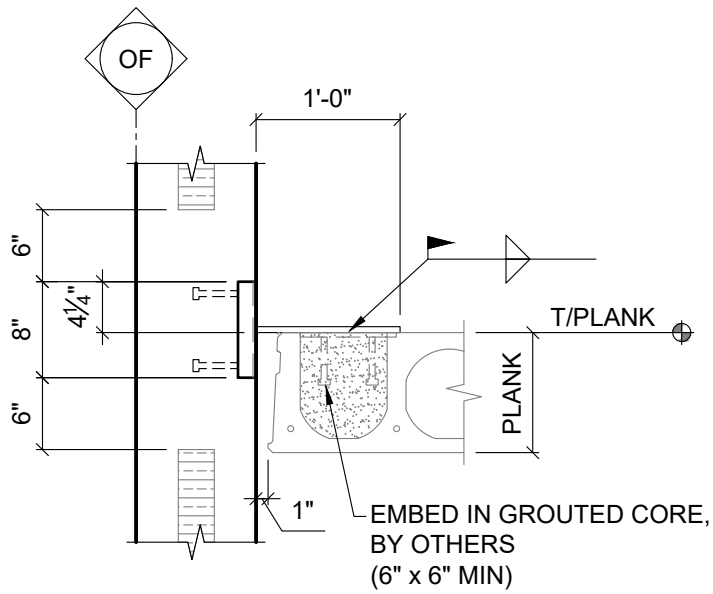
**D81** PLANK BEARING EMBED  
 SCALE: 3/4" = 1'-0"

	TITLE: SHOP DRAWING DETAILS		BY: ATMI
	PROJECT: STANDARDS		
	ISSUED: 01/09/2017	REVISED: <span style="border: 1px solid black; padding: 2px;">3</span>	01/28/2020
<b>D81</b>			




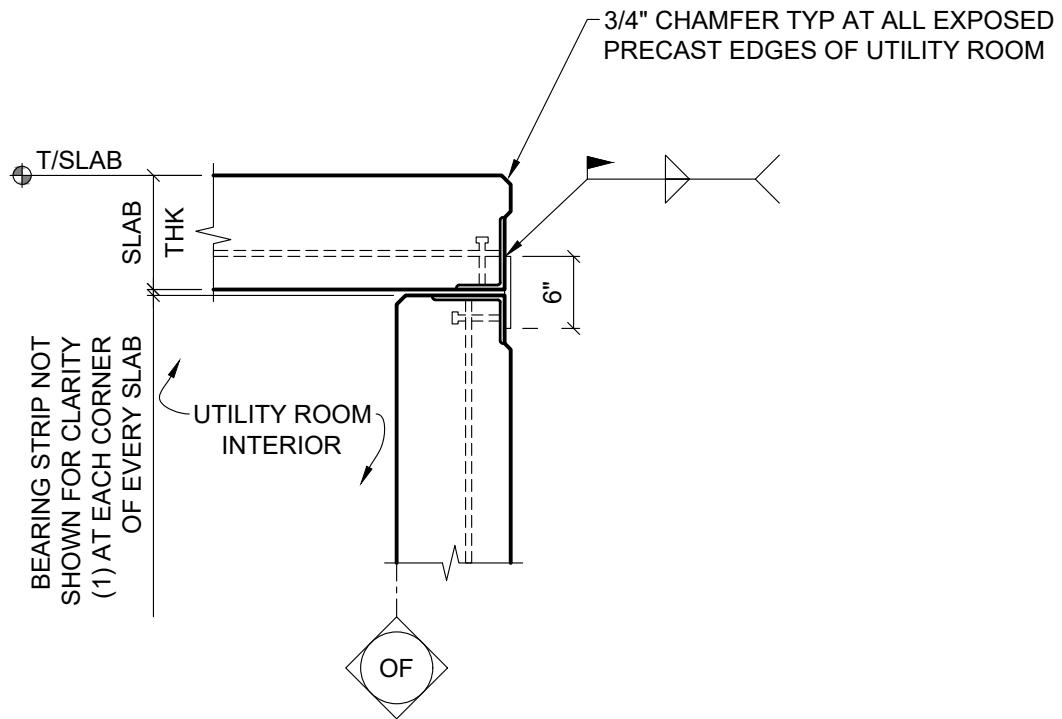
**D82** PLANK BEARING T/PRECAST  
 SCALE: 3/4" = 1'-0"

	TITLE: SHOP DRAWING DETAILS	BY: ATMI
	PROJECT: STANDARDS	<h1>D82</h1>
	ISSUED: 01/09/2017	




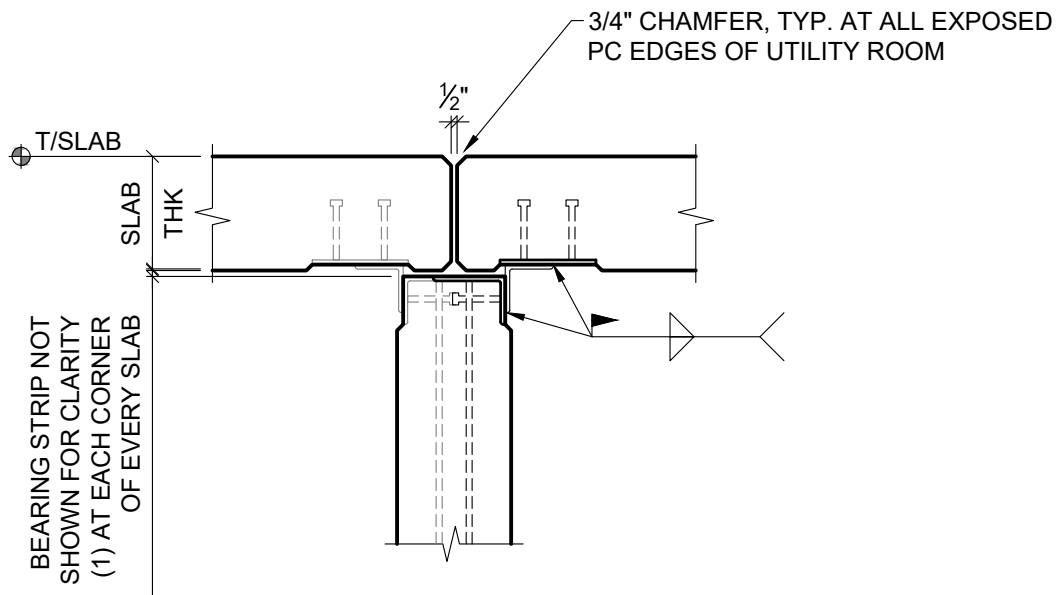
**D83** PLANK NON-BEARING  
 SCALE: 3/4" = 1'-0"

	TITLE: SHOP DRAWING DETAILS	BY: ATMI
	PROJECT: STANDARDS	<h1>D83</h1>
	ISSUED: 01/09/2017	



**D90** UTILITY ROOM SLAB BEARING  
 SCALE: 3/4" = 1'-0"

	TITLE: SHOP DRAWING DETAILS	BY: ATMI
	PROJECT: STANDARDS	<h1>D90</h1>
	ISSUED: 01/09/2017	



INSIDE BEARING  
UTILITY ROOM

D91

SCALE: 3/4" = 1'-0"



TITLE: SHOP DRAWING DETAILS

BY: ATMI

PROJECT: STANDARDS

ISSUED: 01/09/2017

REVISED: 2

01/28/2020

D91