

SCHEDULE OF TYPICAL VERTICAL REINFORCEMENT (U.N.O.)		WALL HEIGHT (BETWEEN LATERAL SUPPORT FROM FLOORS OR ROOF SYSTEMS)										SCHD. V
CLASS	NOM. WYTHE THK.	0'-0" to 6'-0"	6'-0" to 9'-0"	9'-0" to 10'-10"	10'-10" to 12'-8"	12'-8" to 16'-8"	16'-8" to 18'-0"	18'-0" to 20'-8"	20'-8" to 24'-6"	24'-6" to 30'-0"		
EXTERIOR WALLS	6"	None Req'd.	#4 @ 48" c/c	#4 @ 40" c/c	#4 @ 32" c/c	Do Not Use	Do Not Use	Do Not Use	Do Not Use	Do Not Use		
	8"	None Req'd.	#4 @ 48" c/c	#4 @ 40" c/c	#4 @ 32" c/c	#5 @ 40" c/c	#5 @ 32" c/c	#5 @ 24" c/c	Do Not Use	Do Not Use		
	10"	None Req'd.	#4 @ 48" c/c	#4 @ 40" c/c	#4 @ 32" c/c	#5 @ 40" c/c	#5 @ 32" c/c	#5 @ 24" c/c	Do Not Use	Do Not Use		
INTERIOR WALLS	6"	None Req'd.	#4 @ 48" c/c	#4 @ 40" c/c	#4 @ 32" c/c	Do Not Use	Do Not Use	Do Not Use	Do Not Use	Do Not Use		
	8"	None Req'd.	#4 @ 48" c/c	#4 @ 40" c/c	#4 @ 32" c/c	#5 @ 40" c/c	#5 @ 32" c/c	#5 @ 24" c/c	Do Not Use	Do Not Use		
	10"	None Req'd.	#4 @ 48" c/c	#4 @ 40" c/c	#4 @ 32" c/c	#5 @ 40" c/c	#5 @ 32" c/c	#5 @ 24" c/c	Do Not Use	Do Not Use		
SEISMIC WALLS (V)	6"	Do Not Use	#4 @ 112" c/c	#4 @ 96" c/c	#4 @ 72" c/c	Do Not Use	Do Not Use	Do Not Use	Do Not Use	Do Not Use		
	8"	#5 @ 32" c/c	#4 @ 48" c/c	#4 @ 40" c/c	#4 @ 32" c/c	#5 @ 40" c/c	#5 @ 32" c/c	#5 @ 24" c/c	Do Not Use	Do Not Use		
	10"	#5 @ 24" c/c	#4 @ 48" c/c	#4 @ 40" c/c	#4 @ 32" c/c	#5 @ 40" c/c	#5 @ 32" c/c	#5 @ 24" c/c	Do Not Use	Do Not Use		

(* USE THIS PART OF CHART IF SEISMIC DESIGN CATEGORY (SDC) GIVEN IN GENERAL PROVISION NOTE 1.3.8 = 'D'.

- NOTES:**
- EXTEND VERT. REINF. THROUGH BOND BEAMS (6" MIN. INTO BOND BEAMS AT T.O. WALLS).
 - EXTEND VERT. REINF. TO T.O. WALLS, INCLUDING PARAPETS WHERE APPLICABLE.
 - PROVIDE EPOXY SET DOWELS FROM CONCRETE STRUCTURE OR SLAB OF EQUAL BAR DIA. & SPACING AS REQ'D. VERT. REINF.
 - EPOXY SET DOWEL EMBEDMENT LENGTH TO BE PER OTHER TYPICAL DETAILS.
 - VERTICAL REINFORCING BAR LAPS TO BE 40D (2'-0" MIN.).
 - PROVIDE ADDITIONAL VERT. BARS, OF SAME DIA. AS VERT. REINF. SCHEDULED ABOVE, TO COMPLY WITH THE REQUIREMENTS OF THE "ADD'L. VERT. REINF. SCHED.", GIVEN BELOW.
 - GROUT-FILL ALL CELLS CONTAINING BAR REINFORCEMENT WITH SELF-CONSOLIDATING CONCRETE (3000 psi at 28 DAYS) - SEE ALSO TYPICAL CMU REINFORCEMENT DETAILS.
 - CMU SHALL COMPLY WITH ASTM C90 (LATEST EDITION).
 - MINIMUM COMPRESSIVE STRENGTH OF UNIT MASONRY: f_m = 1500 psi.

- REINFORCEMENT TO BE PLACED IN CENTER OF CORES (U.N.O.). USE PROPRIETARY GALVANIZED 9g BAR POSITIONERS.
- REINFORCEMENT TO BE ASTM A615 GRADE 60.
- SCHEDULE BASED ON MAX. REQUIREMENTS FOR SLENDERNESS AND WIND PRESSURE (20.0 PSF EXTERIOR; 5.0 PSF INTERIOR), AND SEISMIC PROVISIONS OF THE BUILDING CODE.

e.g.: (2) #5 @ 32" c/c

WHERE SHOWN ON PLANS, THIS REFERENCE SYMBOL INDICATES THE REQUIRED WALL REINFORCEMENT, THROUGHOUT THE LENGTH OF THE WALL, FROM CORNER TO CORNER.

SCHEDULE OF HORIZONTAL REINFORCEMENT AND BOND BEAMS		SCHD. H
ITEM NO.	LOCATION	REINFORCEMENT
1.	ALL WALLS, EXCEPT SEISMIC 'D' WALLS	LADDER-TYPE INT. REINF. IN ALTERNATE MORTAR JOINTS
2.	8" & 10" WALLS	LADDER-TYPE INT. REINF. @ 9" o.c. (3/16" DIA. SIDE RODS)
3.	12" WALLS	LADDER-TYPE INT. REINF. @ 16" o.c. & BOND-BMS (**) w/ (1) #5 @ 48" o.c.
4.	TOP OF WALL	(2) #5 IN BOND BEAM (**)
5.	FLOOR/ROOF LINES	(2) #5 IN BOND BEAM (**)
6.	UNDER OPENINGS (SILLS)	(2) #5 IN BOND BEAM (**)
7.	CMU LINTELS	SEE LINTEL DETAILS (***)
8.	ABOVE STR. STEEL LINTELS	LADDER-TYPE INT. REINF. IN (2) COURSES x (OPNG. WIDTH + 24" EA. END EXCEPT AT MCL)

NOTE:

- SDC=SEISMIC DESIGN CATEGORY (SEE GENERAL PROVISION NOTE 1.3.8)
- LADDER-TYPE REINF. SHALL BE "OUR-O-WALL" OR APPROVED EQUIV., w/ 9 GAGE WIRES, GALV. PER ASCE/ACI 530.1 REQUIREMENTS - U.N.O.

LEGEND:

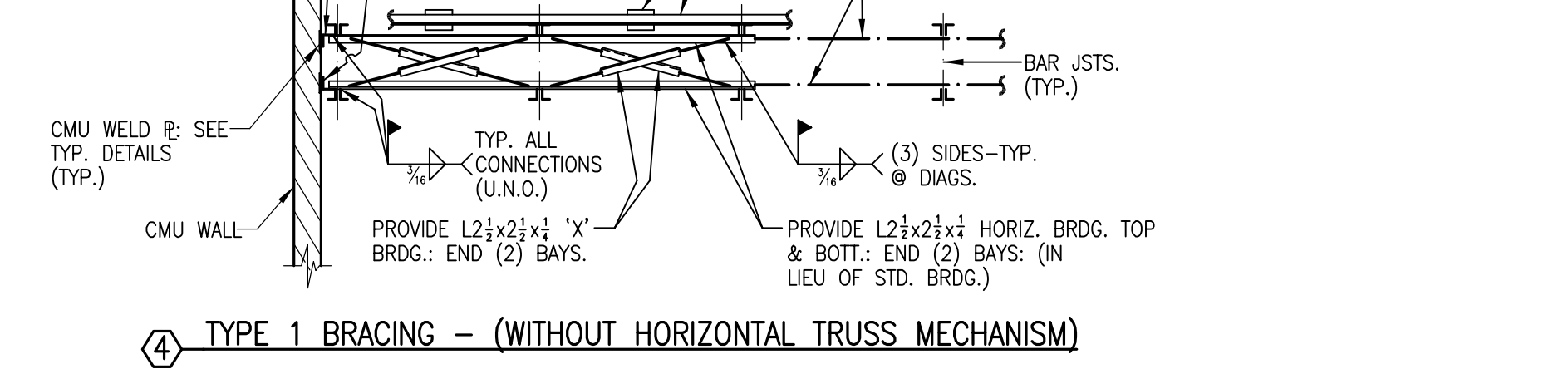
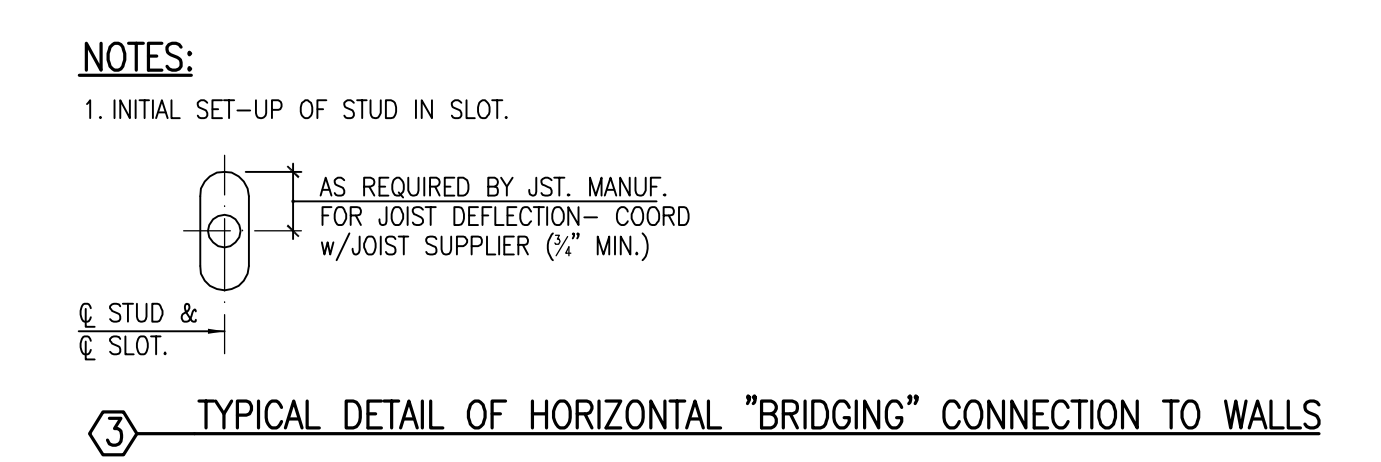
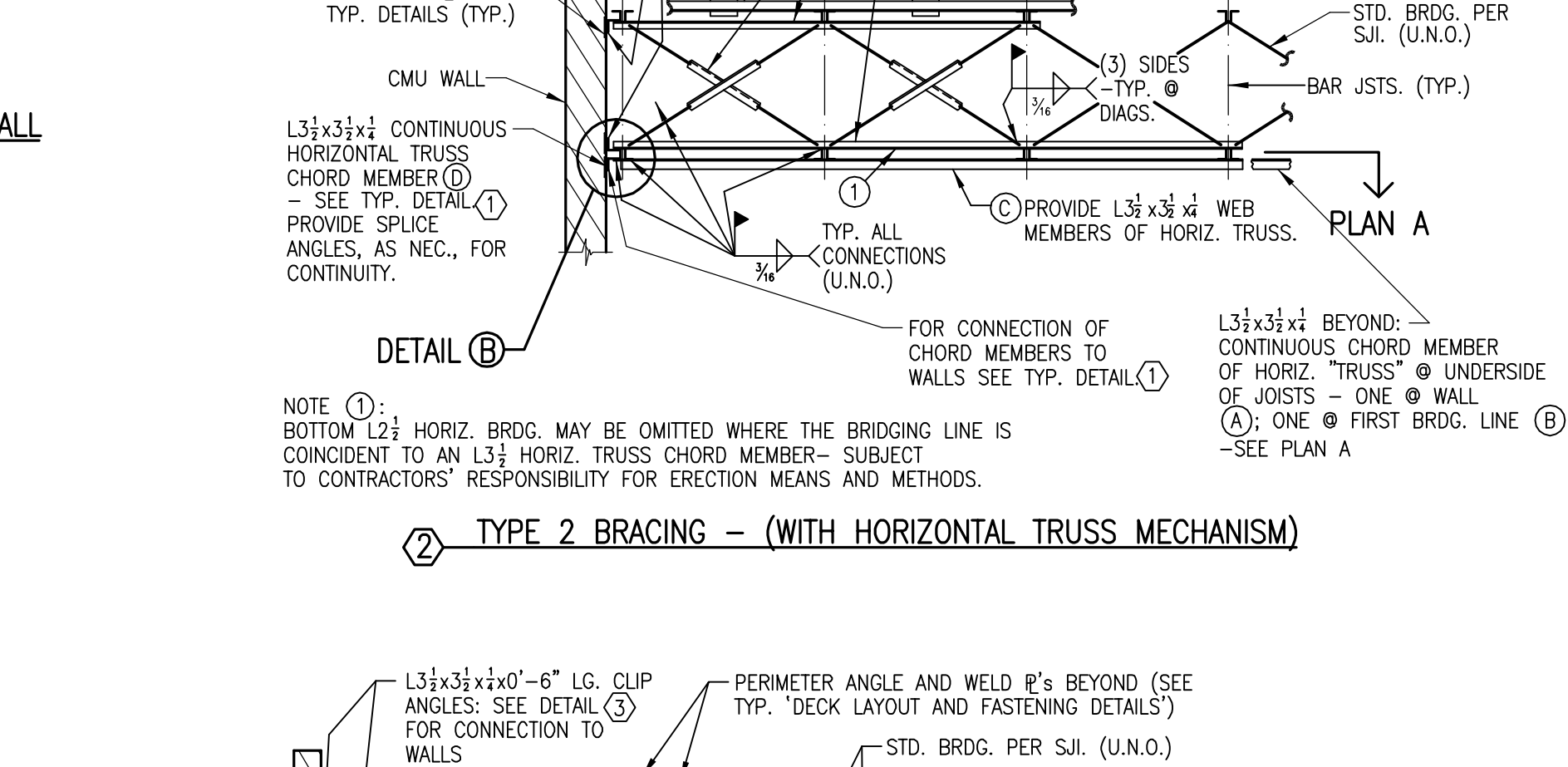
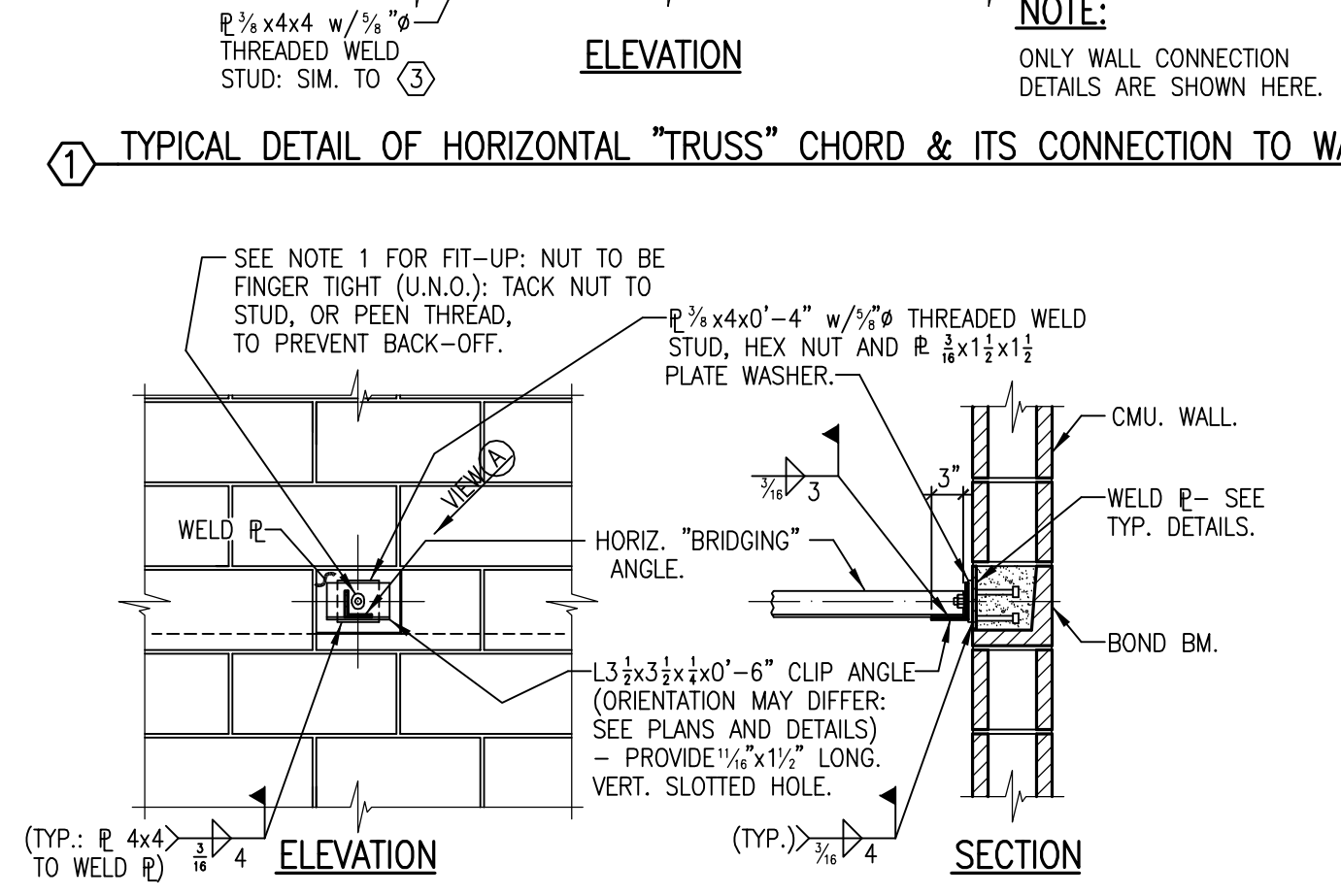
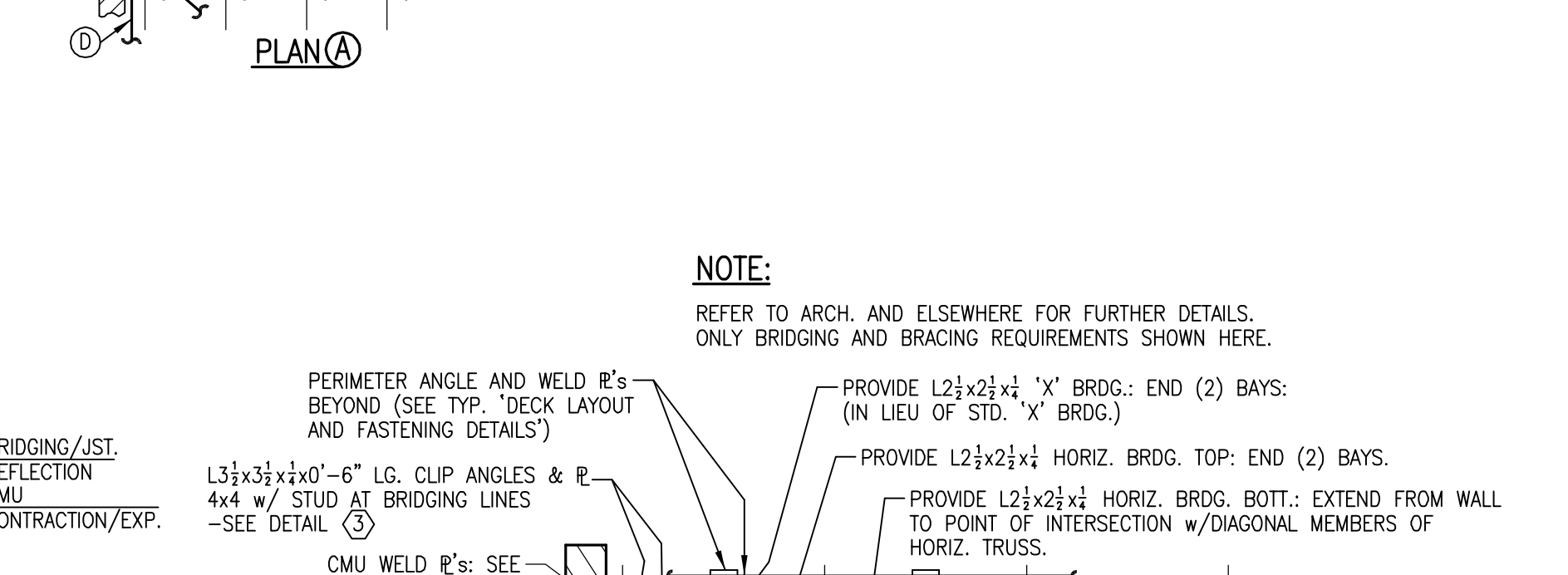
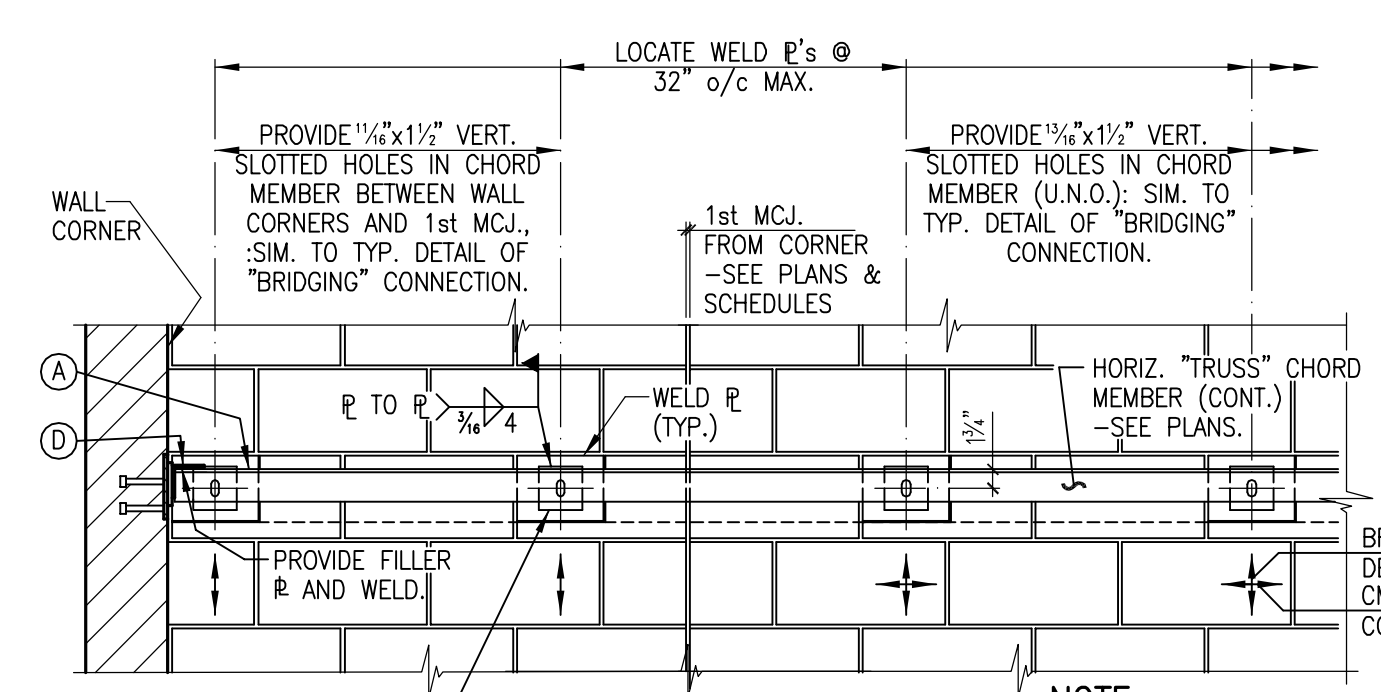
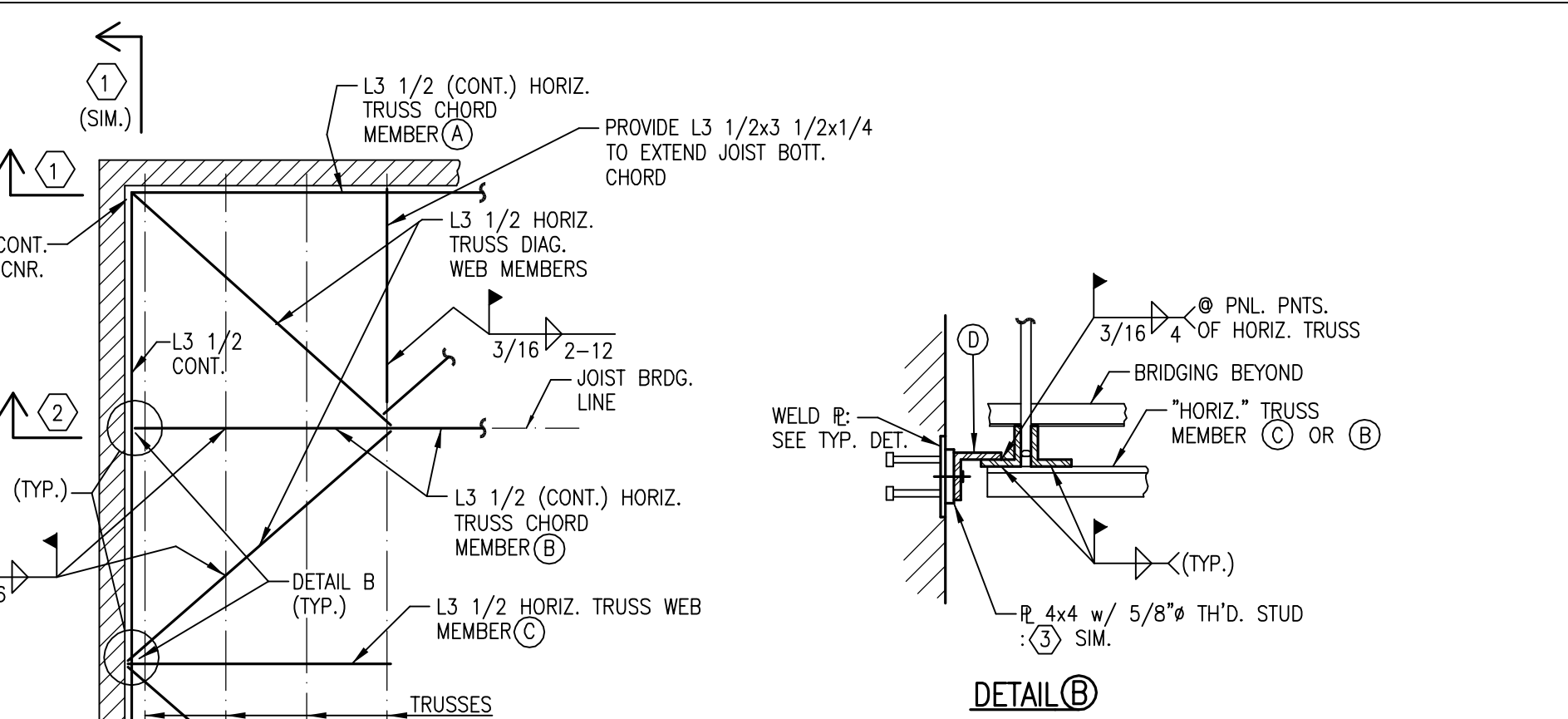
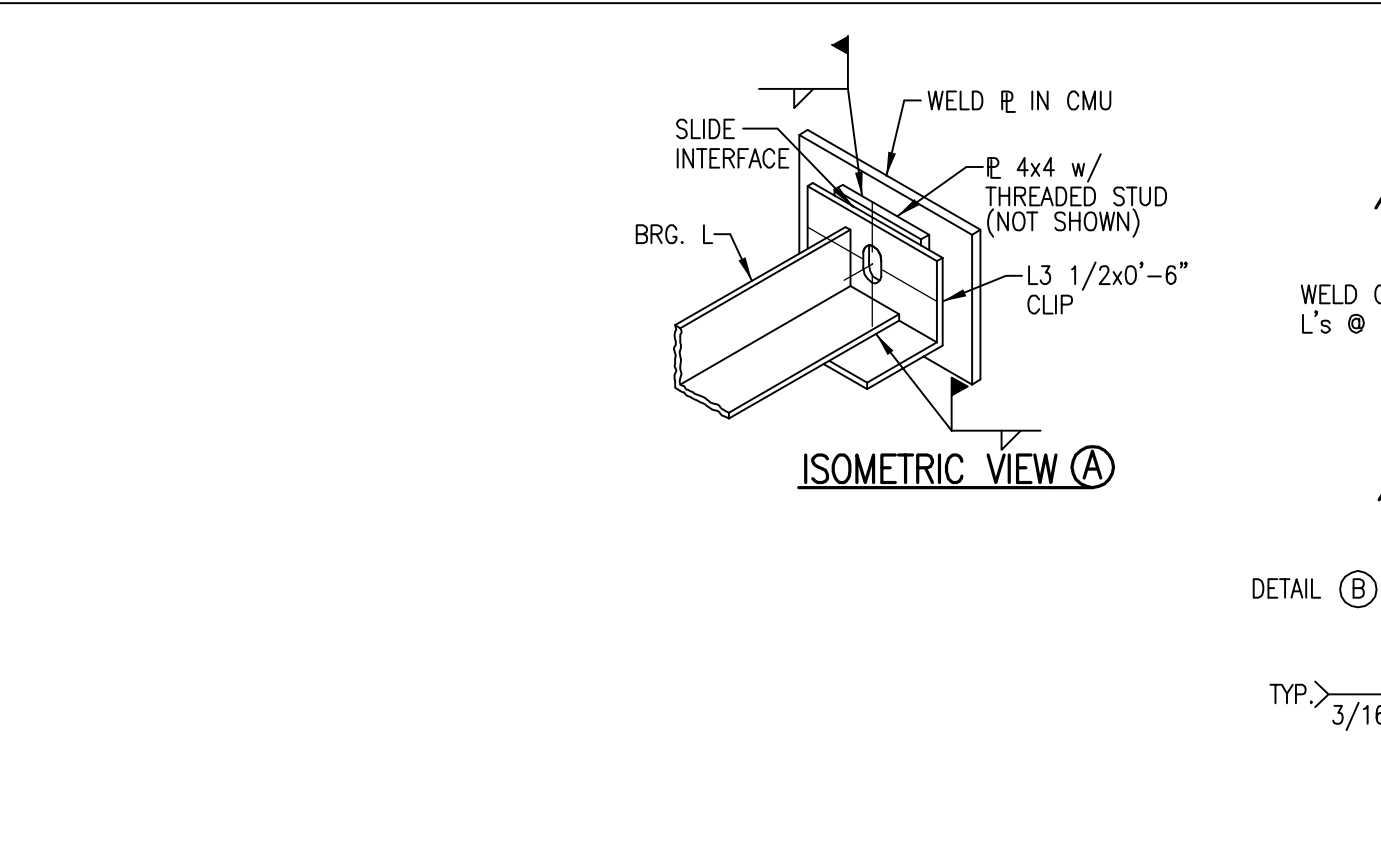
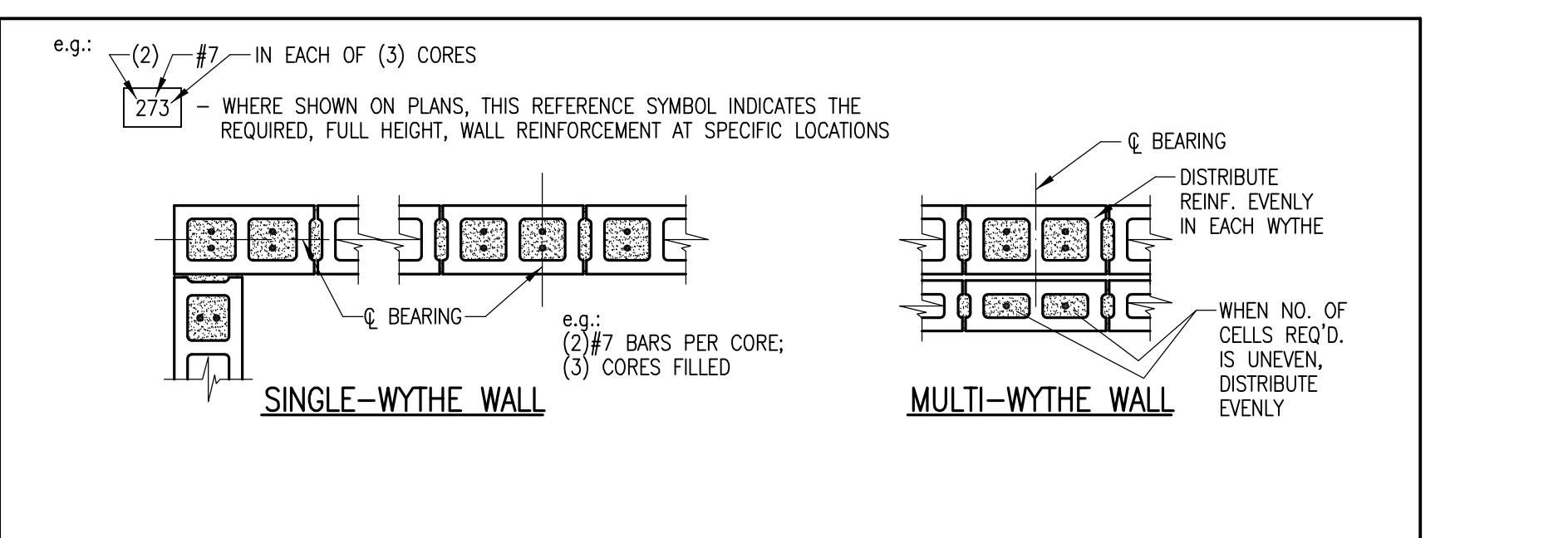
- (* USE THIS PART OF CHART IF SEISMIC DESIGN CATEGORY (SDC) = "D"
- (**) THESE BOND BEAMS TO BE "CONTINUOUS" THROUGH MCL'S WHEN SDC = "C" OR "D"
- (***) WHEN SDC = "C" OR "D" SILL BOND BEAMS AND LINTELS ARE TO EXTEND THROUGHOUT THE LENGTH OF THE WALL PANEL & ADJ'L. HORIZ. BARS ARE REQ'D. AT THE OPENINGS. SEE "ELEVATION OF A TYP. WALL REINF."

SCHEDULE OF SPECIFIC (*) VERTICAL REINFORCEMENT		SCHD. SV
ITEM NO.	LOCATION	REINFORCEMENT
1.	CONTROL JOINTS	(1) EACH SIDE - #5 MIN. (2) EACH SIDE - #5 MIN.
2.	OPENINGS	< 2'-0" WIDE (1) EACH SIDE - #5 MIN. (2) EACH SIDE - #5 MIN.
		> 2'-0" WIDE (1) EACH SIDE - #5 MIN. (2) EACH SIDE - #5 MIN.
3.	WALL INTERSECTIONS	< 4'-0" WIDE (2) EACH SIDE - #5 MIN. (2) EACH SIDE - #5 MIN.
		> 4'-0" WIDE SPECIAL REINF. REQ'D. SEE PLANS (2 - #5 EACH SIDE MIN.)
4.	FREE ENDS	(1) - #5 MIN. (2) - #5 MIN.
5.	CONCENTRATED LOAD LOCATION (BEAMS, LINTELS, JST., GIRDERS, ETC.)	(1) - #5 MIN. (2) - #5 MIN.
6.	WELDED TO TOP OF STEEL BEAMS SUPPORTING CMU	PLAIN ROUND STOCK #4 LONG MIN. @ 24" c/c - 1/2" DIA. MIN.
7.	SHEAR PANELS	SEE TYP. DETAILS - "REINF. ARRANGEMENT IN CMU SHEAR WALLS"

(* CAN BE COINCIDENT WITH TYPICAL REBAR (NOT REQUIRED TO BE "IN ADDITION TO") EXCEPT AT OPENINGS IN SDC "C" & "D" WALLS. REINF. IN THIS SCHEDULE.

CMU WALL REINFORCEMENT SCHEDULES (U.N.O.)

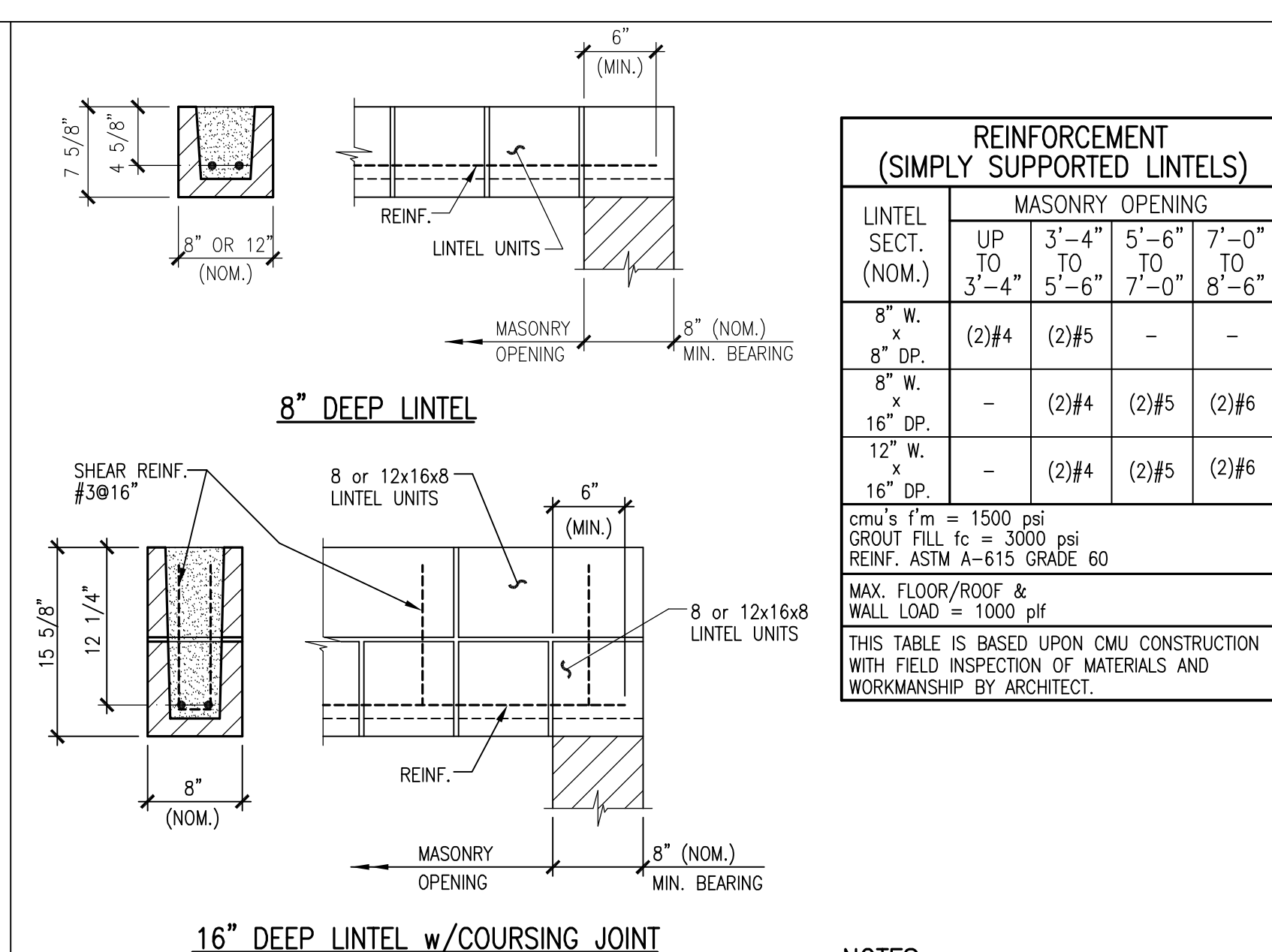
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TYPICAL DETAIL - CMU WALL AND JOIST BRACING/BRIDGING DETAILS

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REINFORCEMENT (SIMPLY SUPPORTED LINTELS)		MASONRY OPENING			
LINTEL SECT. (NOM.)	UP TO	3'-4" TO	5'-6" TO	7'-0" TO	8'-6" TO
8" W. 8" DP.	(2)#4	(2)#5	-	-	-
8" W. 16" DP.	-	(2)#4	(2)#5	(2)#6	-
12" W. 16" DP.	-	(2)#4	(2)#5	(2)#6	-

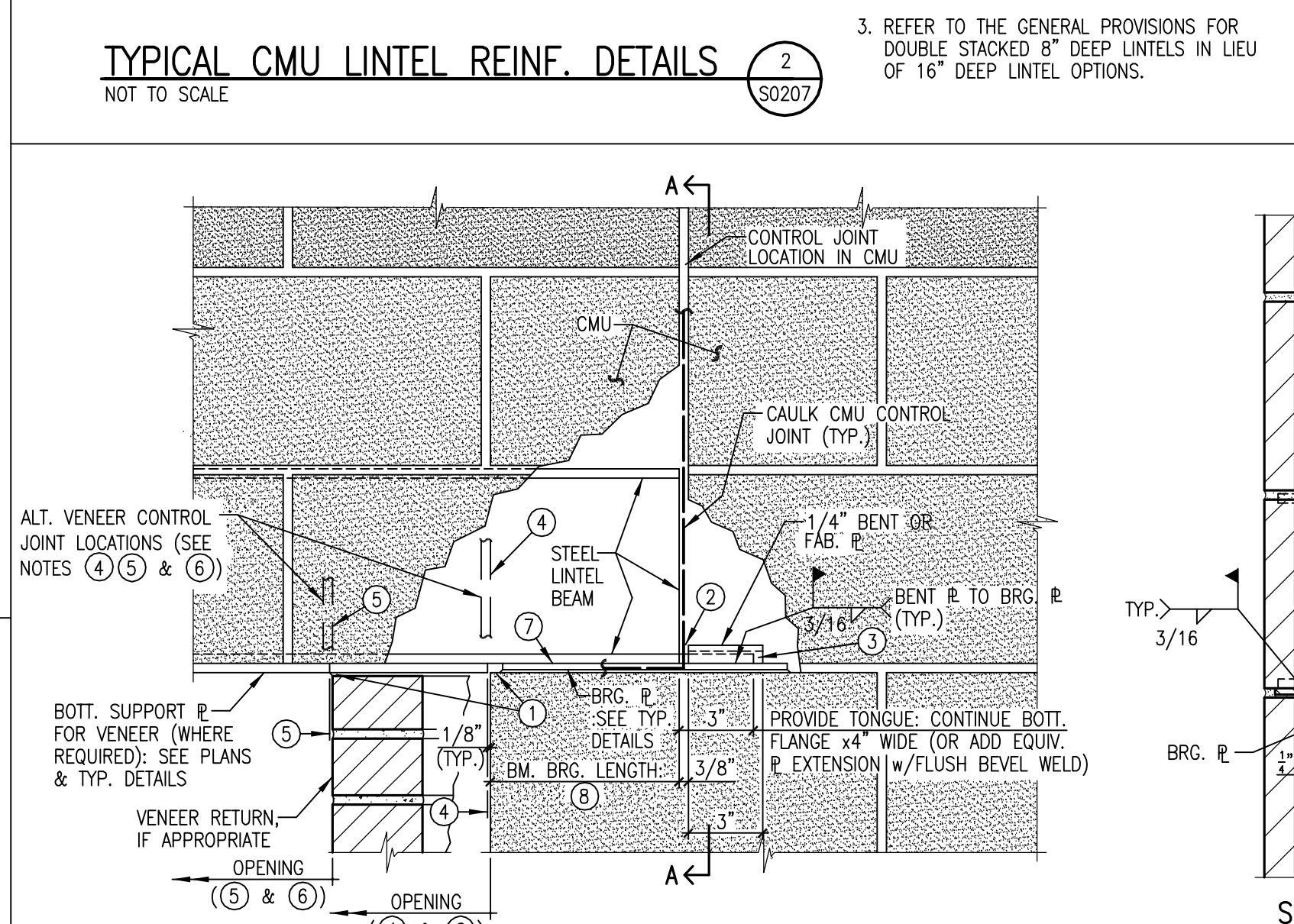
THIS TABLE IS BASED UPON CMU CONSTRUCTION WITH FIELD INSPECTION OF MATERIALS AND WORKMANSHIP BY ARCHITECT.

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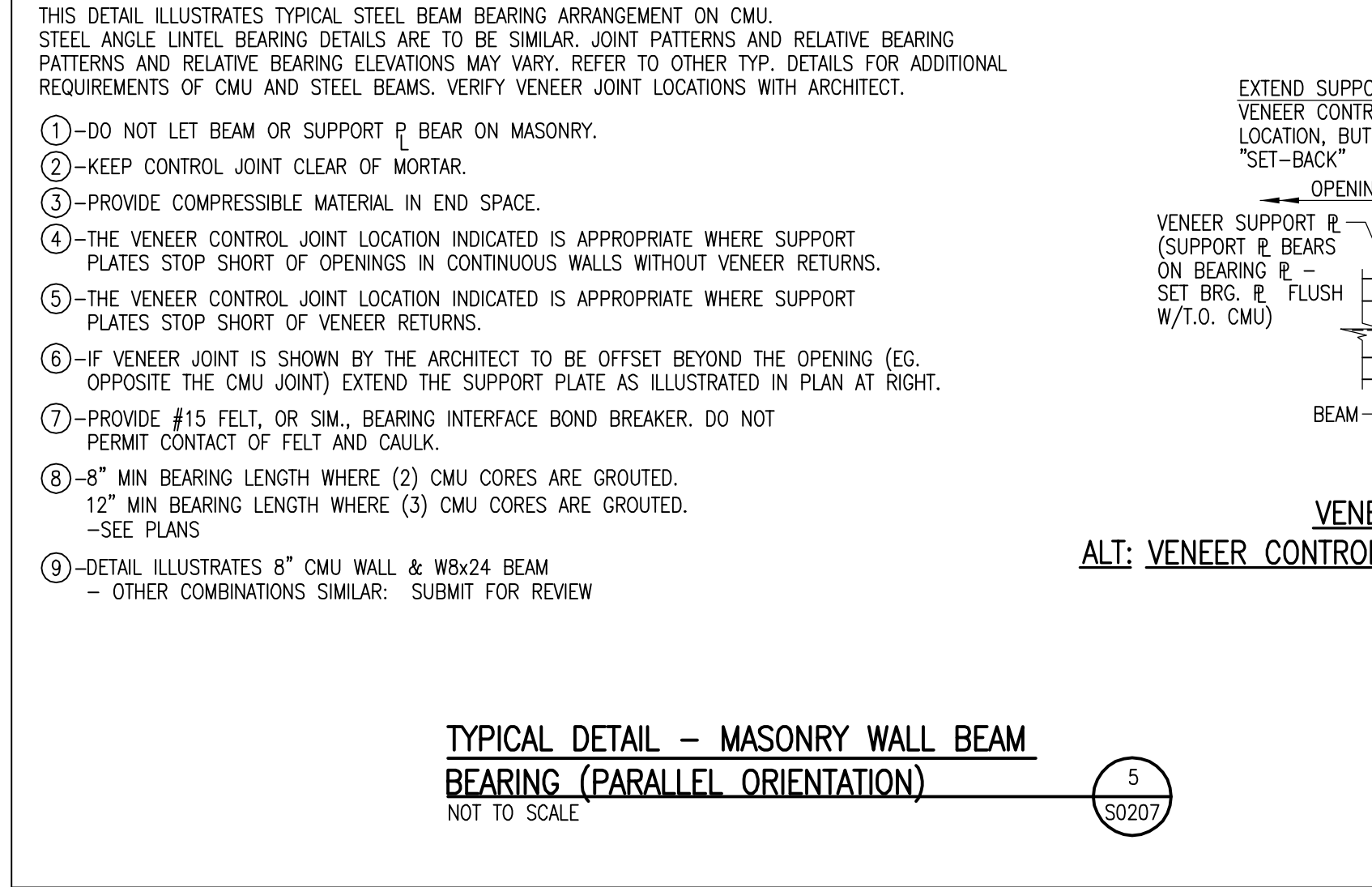
- INSPECTION OF ALL LINTELS IS REQUIRED.
- COORD. WITH TYP. CMU CONTROL JOINT & REINFORCEMENT DETAILS.
- REFER TO THE GENERAL PROVISIONS FOR DOUBLE STACKED 8" DEEP LINTELS IN LIEU OF 16" DEEP LINTEL OPTIONS.

TYPICAL CMU LINTEL REINF. DETAILS

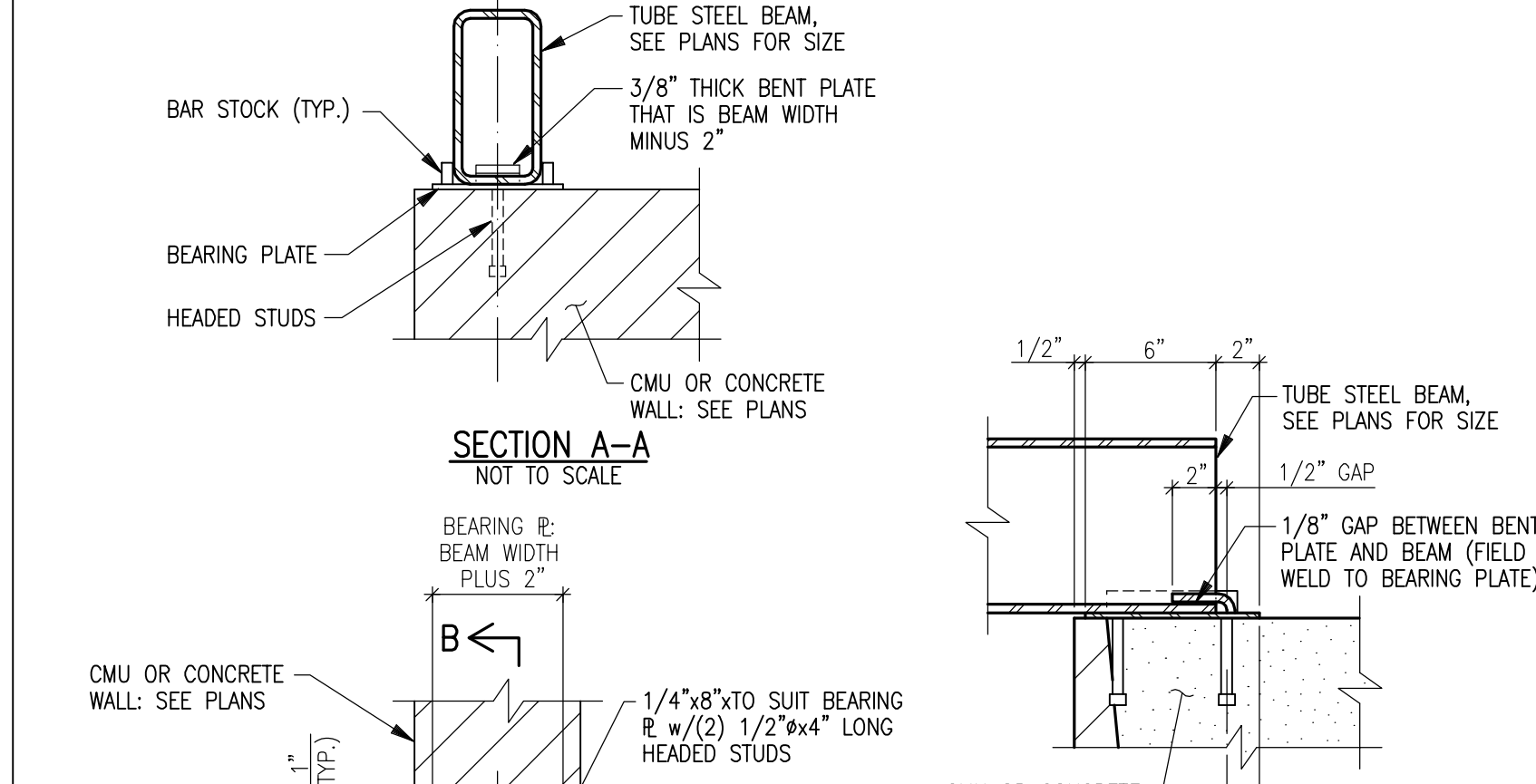
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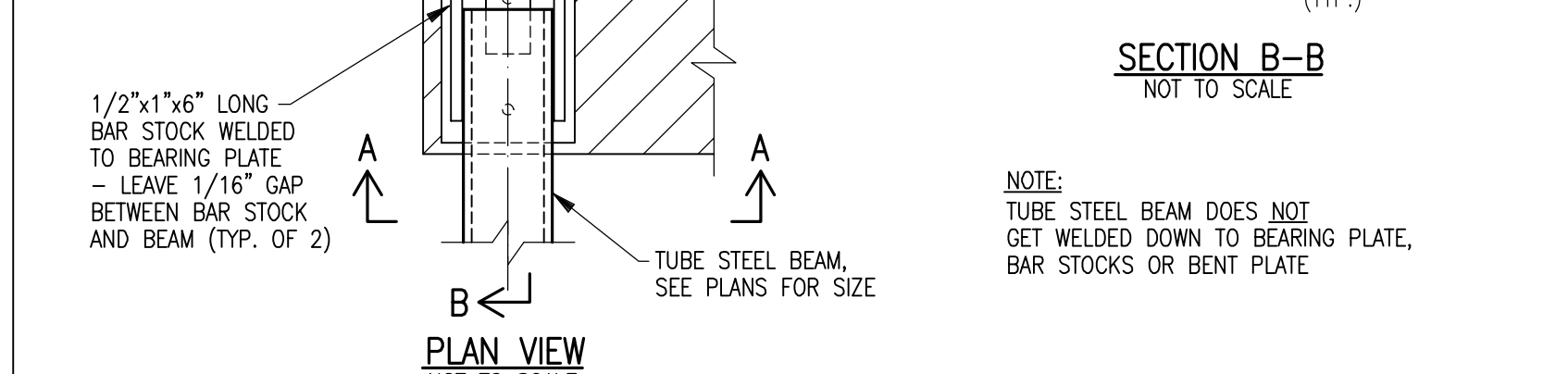
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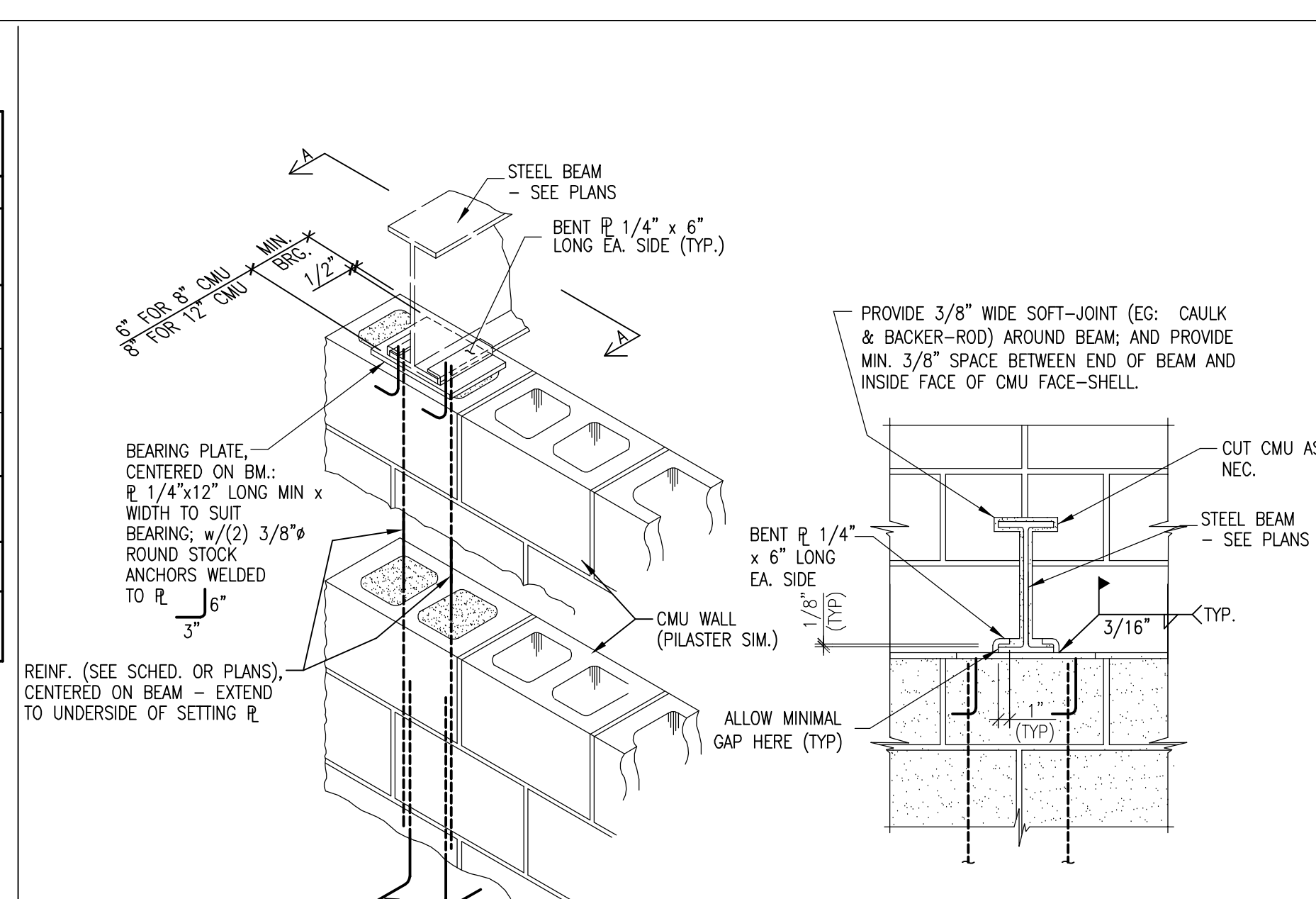
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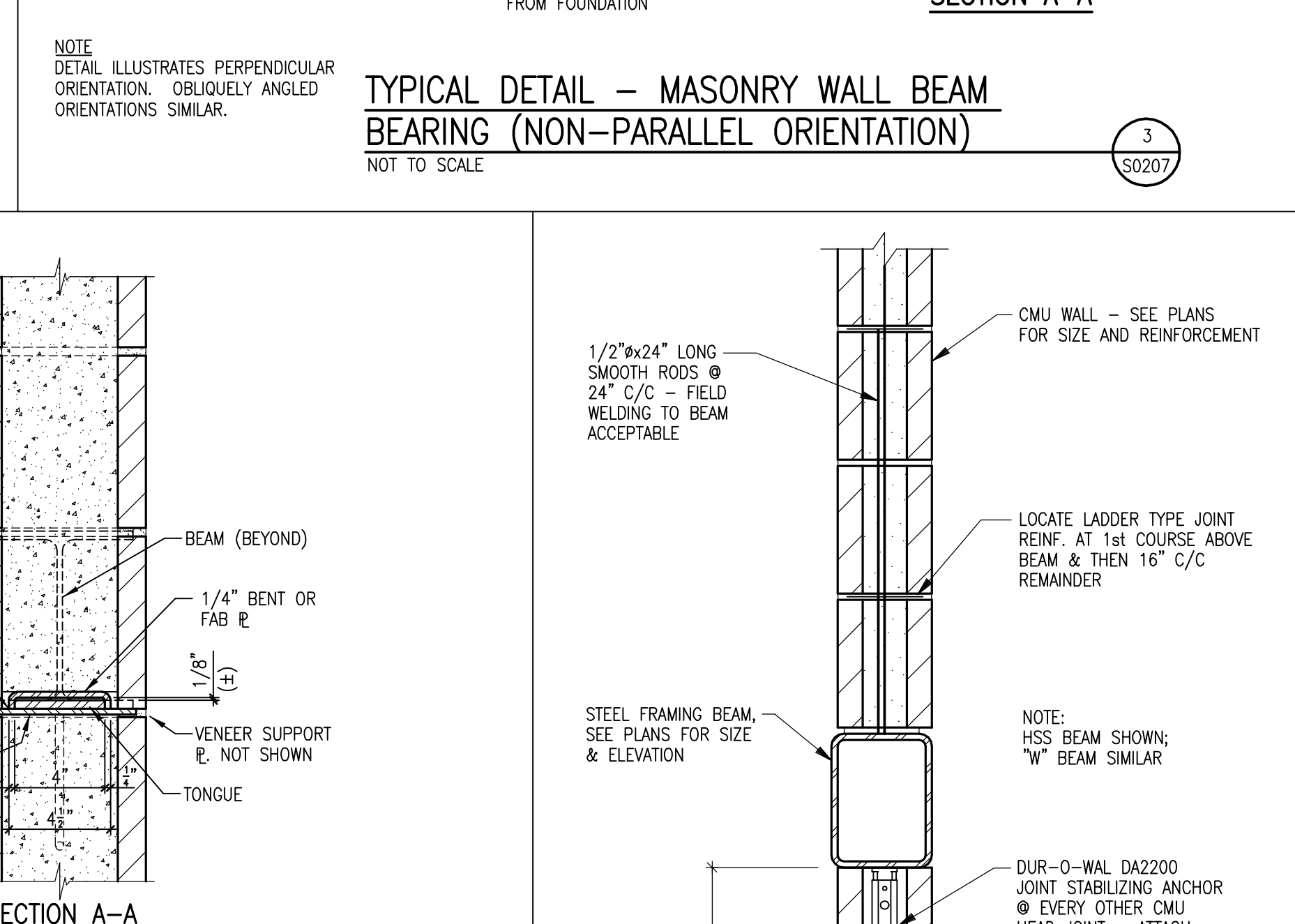
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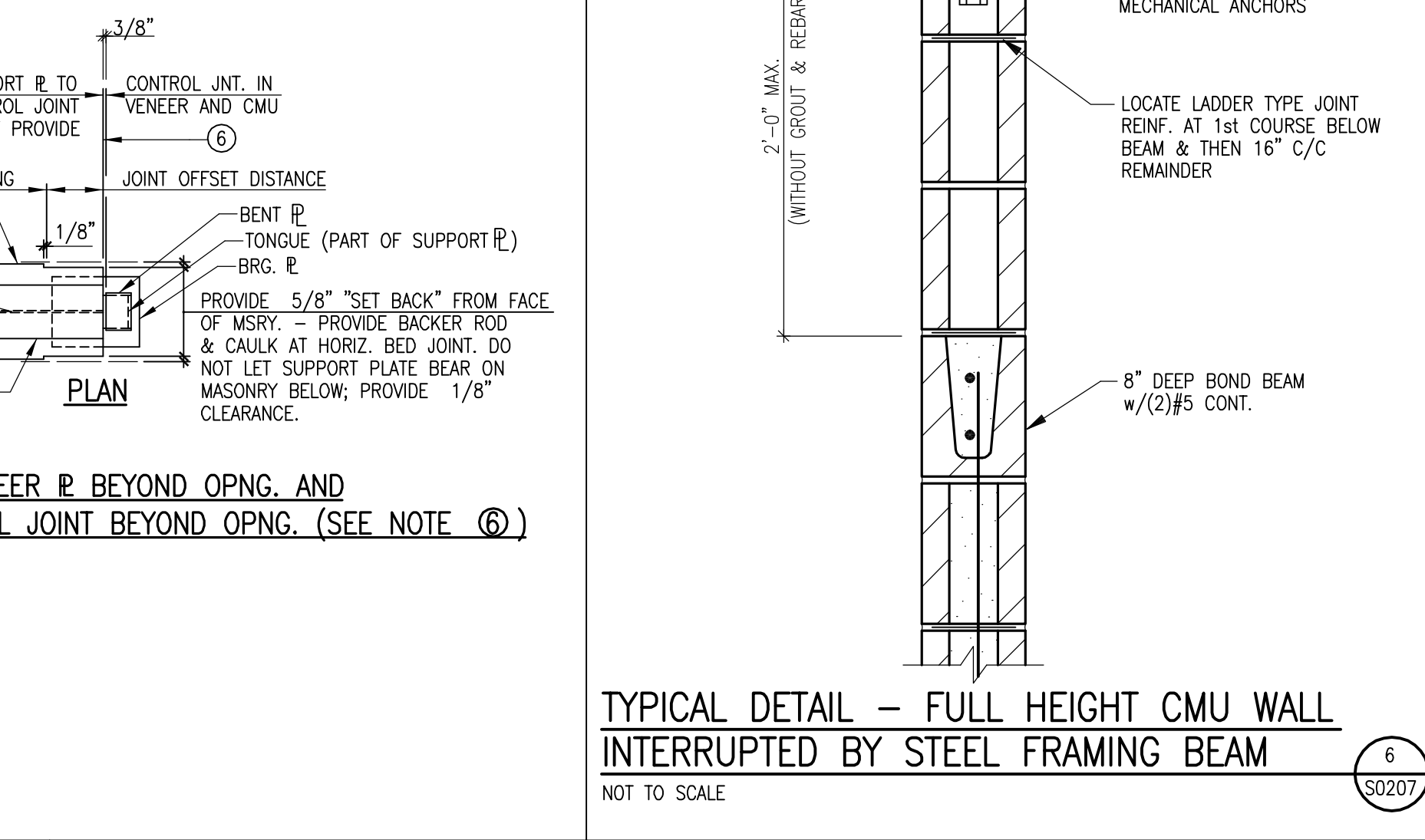
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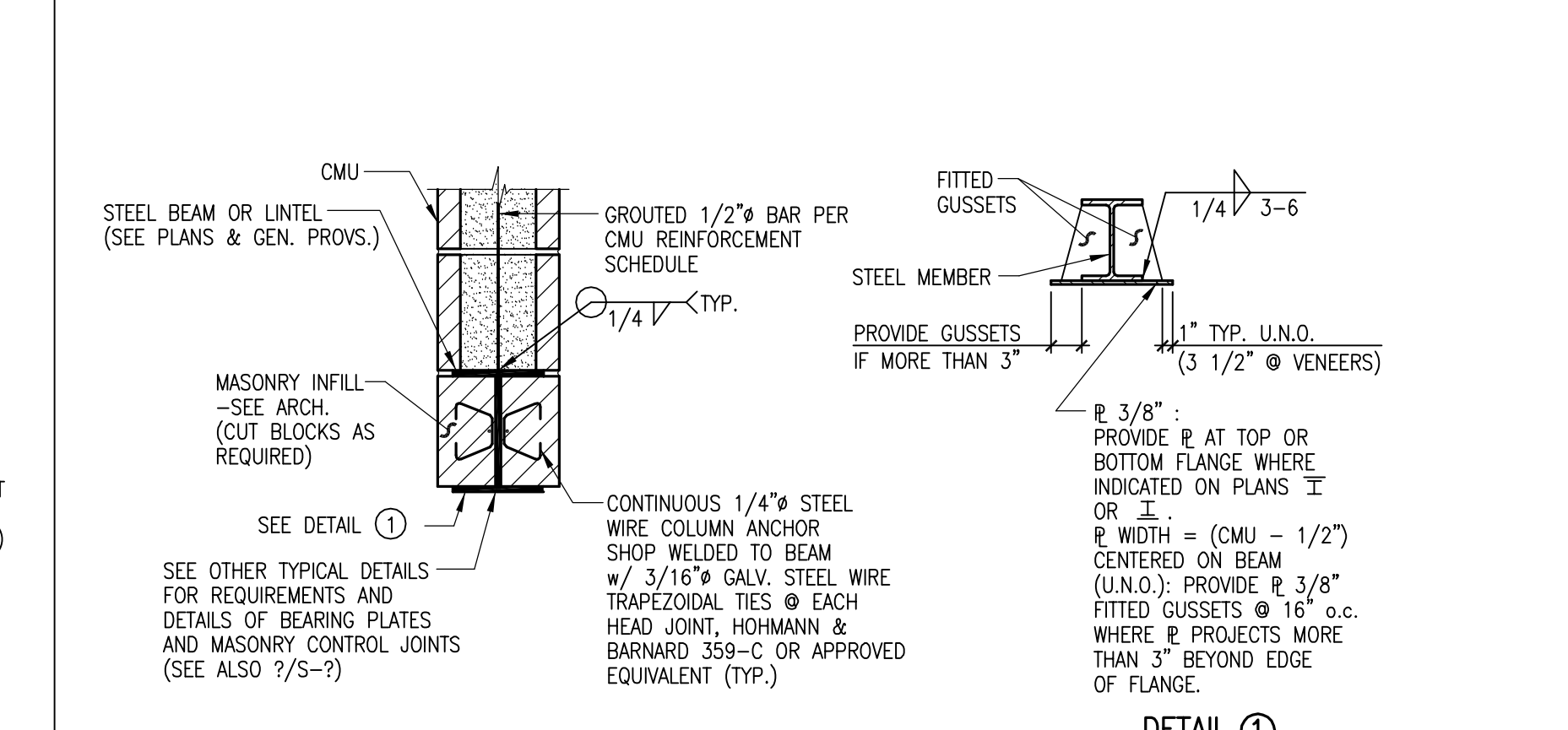
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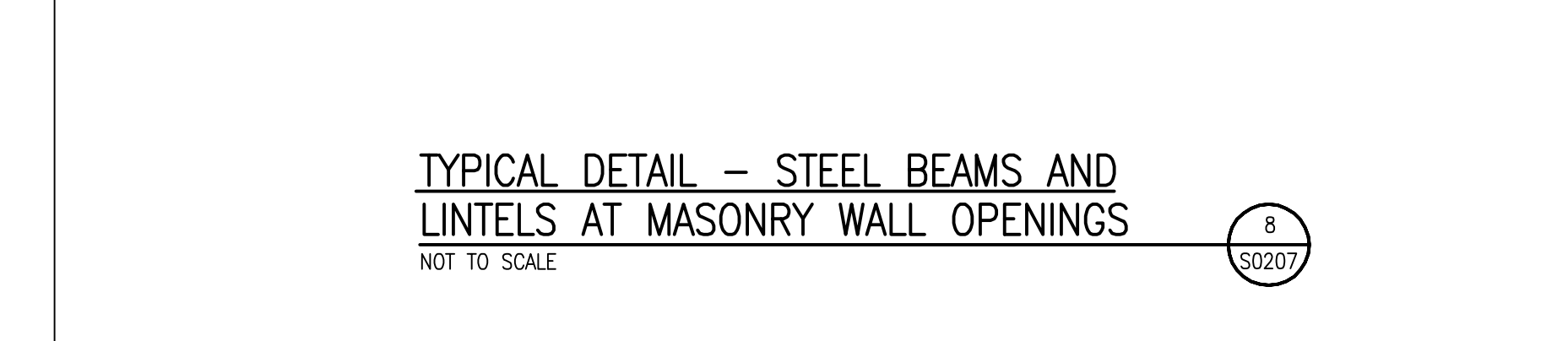
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TYPICAL DETAIL - STEEL BEAMS AND LINTELS AT MASONRY WALL OPENINGS

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University of Louisville - Student Recreation Center (Phase #4 - Construction Set) Louisville, Ky

Omni Architects
212 North Upper Street
Lexington, Kentucky 40507
1001
p 859.252.6664 | f 859.253.2358
www.omniarchitects.com

CANNONDESIGN

UNIVERSITY OF LOUISVILLE

Revision Date	#	DESCRIPTION
	1	ISSUED FOR PERMIT
	2	ISSUED FOR CONSTRUCTION

Drawing Name: TYPICAL DETAILS
U of L Project Number: Omni - 1105.00 Cannon - 03667.00
Project Number: 03667.00
Date: April 16, 2012
Checked By: ANTHONY
VPP

S0207

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