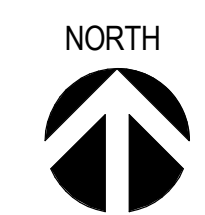


SITE PLAN  
1/16" = 1'-0" A



SHEET NUMBER	SHEET NAME
S0.0	SITE PLAN AND STRUCTURAL SHEET INDEX
S0.01	GENERAL NOTES
S0.02	GENERAL NOTES
S0.03	GENERAL NOTES
S0.11	TYPICAL REBAR AND FOUNDATION DETAILS
S0.12	TYPICAL FOUNDATION DETAILS
S0.21	TYPICAL CONCRETE WALL DETAILS
S0.31	TYPICAL CONCRETE MASONRY WALL DETAILS
S0.41	TYPICAL WOOD DETAILS
S0.42	TYPICAL WOOD DETAILS
S0.43	TYPICAL WOOD DETAILS
S0.44	TYPICAL WOOD DETAILS
S0.51	TYPICAL STEEL DETAILS
S0.52	TYPICAL STEEL DETAILS
S0.53	TYPICAL STEEL DETAILS
S0.61	TYPICAL STEEL DECK DETAILS
S0.71	TYPICAL METAL STUD DETAILS
S0.81	TYPICAL DETAILS
S1.11	CARWASH BUILDING LEVEL 1 FOUNDATION PLAN
S1.12	CARWASH BUILDING LEVEL 2 FRAMING PLAN
S1.13	CARWASH BUILDING ROOF FRAMING PLAN
S1.13A	CARWASH BUILDING TRUSS LOAD PLAN
S1.21	RETAIL BUILDING FOUNDATION PLAN
S1.22	RETAIL BUILDING ROOF FRAMING PLAN
S1.31	OPERATIONS BUILDING FOUNDATION PLAN
S1.32	OPERATIONS BUILDING LEVEL 2, CARPORT AND ROOF FRAMING PLANS
S1.41	VACUUM STORAGE BUILDING FOUNDATION AND ROOF FRAMING PLAN
S1.50	TRASH ENCLOSURE FOUNDATION AND ROOF FRAMING PLAN
S2.11	CONCRETE FOOTING SCHEDULE AND FOUNDATION DETAILS
S2.21	CARWASH BUILDING C.M.U. SHEAR WALL ELEVATIONS
S3.11	TYPICAL STEEL COLUMN DETAILS
S4.11	SEISMIC MOMENT FRAME ELEVATIONS (SLRS)
S4.21	SEISMIC MOMENT FRAME DETAILS (SLRS)
S4.22	SEISMIC MOMENT FRAME DETAILS (SLRS)
S5.11	TYPICAL WOOD SHEAR WALL SCHEDULE AND DETAILS
S5.12	TYPICAL WOOD SHEAR WALL DETAILS
S6.11	TYPICAL SUREBOARD SHEAR WALL DETAILS
S6.12	TYPICAL SUREBOARD SHEAR WALL DETAILS
S7.11	SECTIONS AND DETAILS

Grand total: 39



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2850 REDHILL AVENUE, SUITE 200, SANTA ANA, CA 92705-5943  
949 250 6007 www.hezarchitects.com fax 949 250 1529  
6111 BOLLINGER CANYON ROAD, SUITE 405, SAN RAMON, CA 94583-9186  
925 463 1700 fax 925 463 1725



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714.557.8551 T  
714.557.8551 F  
www.englekirk.com

**SOUTH COAST SPEEDWASH AT THE AUTOBAHN**  
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NO.	DATE	DESCRIPTION
1	05/18/17	2ND PLAN CHECK SUBMITTAL
	07/14/17	3RD PLAN CHECK SUBMITTAL

NO.	DATE	DESCRIPTION

SITE PLAN AND  
STRUCTURAL SHEET  
INDEX

SHEET SCALE :	1/16" = 1'-0"
PROJECT MANAGER :	MH
DESIGNER :	JN
DRAWN BY :	FS
REVIEWED BY :	
1st DEPT. SUBMITTAL :	XX/2016
ISSUED FOR CONST. :	
JOB NUMBER :	16-6003
CAD FILE NAME :	

S0.0

2ND BUILDING PLAN CHECK COORDINATION 05.18.2017





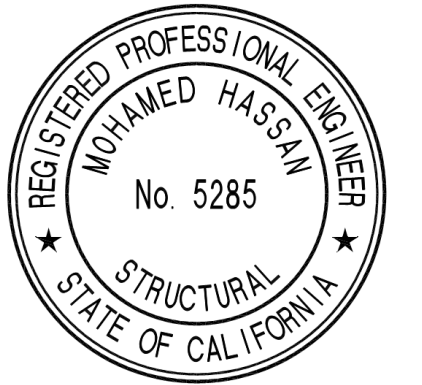
**STRUCTURAL OBSERVATION**

- Structural observation is required for the structural system in accordance with CBC Section 1704.5. Structural observation is the visual observation of the elements and connections of the structural system at significant construction stages and the completed structure for general conformance to the approved plans and specifications. Structural observation does not waive the responsibility for the inspections required of the Building Inspector or the Special Inspector.
- The Owner shall employ a registered design professional to perform the structural observation. The Engineer or Architect shall be registered or licensed in the State of California. The Department of Building and Safety recommends the use of the Engineer or Architect responsible for the structural design when they are independent of the Contractor.
- The Owner or Owner's Representative shall coordinate and call for a meeting between the Engineer or Architect responsible for the structural design, Structural Observer, Contractor, affected Subcontractors and Deputy Inspectors. The purpose of the meeting shall be to identify the major structural elements and connections that affect the vertical and lateral load systems of the structure and to review scheduling of the required observations. A record of the meeting shall be included in the first Observation Report submitted to the Building Inspector.
- The Structural Observer shall perform site visits at those steps in the progress of the work that allow for correction of deficiencies without substantial effort or uncovering of the work involved. At a minimum, the following significant construction stages require a site visit and an Observation Report from the Structural Observer:
 

CONSTRUCTION STAGES	ELEMENTS/CONNECTIONS TO BE OBSERVED
A. Foundations	First grade beam reinforcing steel placement. First anchor bolt placements at SMF/EBF base plate.
B. Structural Steel	First SMF/EBF connections, bracing and seismic joint connection at floor and roof.
C. Floor and Roof Steel Deck	Chord reinforcing and deck welding for first concrete pour. Initial installation of ShearTranz.
- The Structural Observer shall prepare a report for each significant stage of construction observed. The original of the Observation Report shall be sent to the Building Inspector's office and shall be signed and sealed (wet stamp) by the responsible Structural Observer. One copy of the Observation Report shall be attached to the approved plans. Copies of the report shall also be given to the Owner, Contractor, and Deputy Inspector.
- A final Observation Report must be submitted to the building official, owner and Architect (Structural Engineer) which states that the site visits have been made and that all report deficiencies to the best of the structural observer's knowledge has been corrected and that the structural system generally conforms with the approved plans and specifications.
- The Structural Observer shall send the original report to the following inspection office:  
City of Santa Ana Department of Building and Safety



**WILLIAM HEZMALHALCH ARCHITECTS, INC.**  
 2850 REDHILL AVENUE, SUITE 200, SANTA ANA, CA 92705-5943  
 949 250 0507 www.whoarchitects.com fax 949 250 1529  
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 Suite 125  
 Santa Ana, CA  
 92704  
 714.557.8551 T  
 714.557.8551 F  
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NO.	DATE	DESCRIPTION
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**GENERAL NOTES**

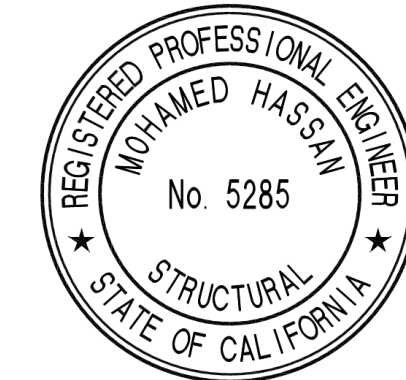
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DESIGNER :	JN
DRAWN BY :	FS
REVIEWED BY :	
1st DEPT. SUBMITTAL :	XX/2016
ISSUED FOR CONST. :	
JOB NUMBER	16-5003
CAD FILE NAME	

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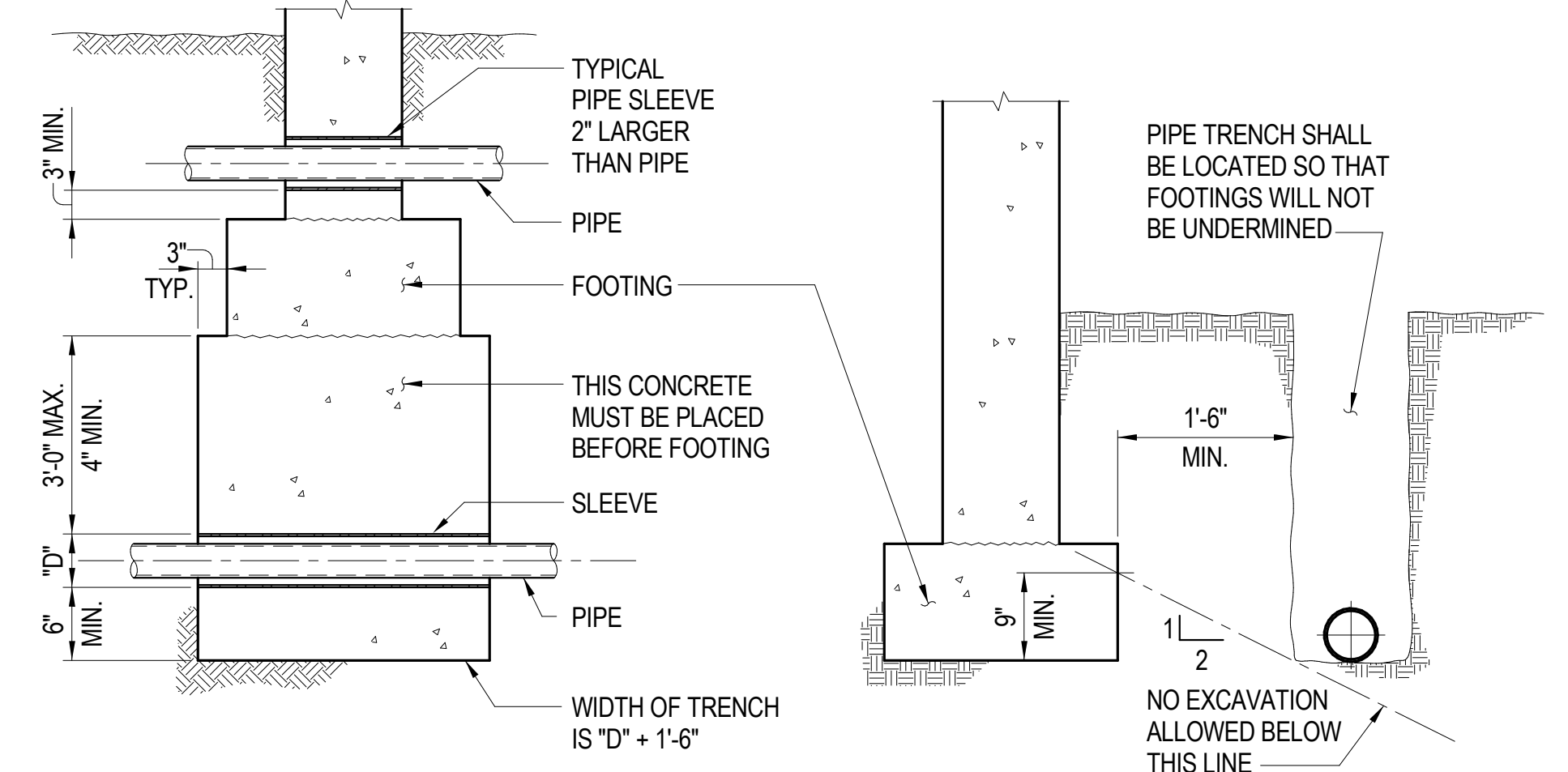
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**TYPICAL FOUNDATION DETAILS**

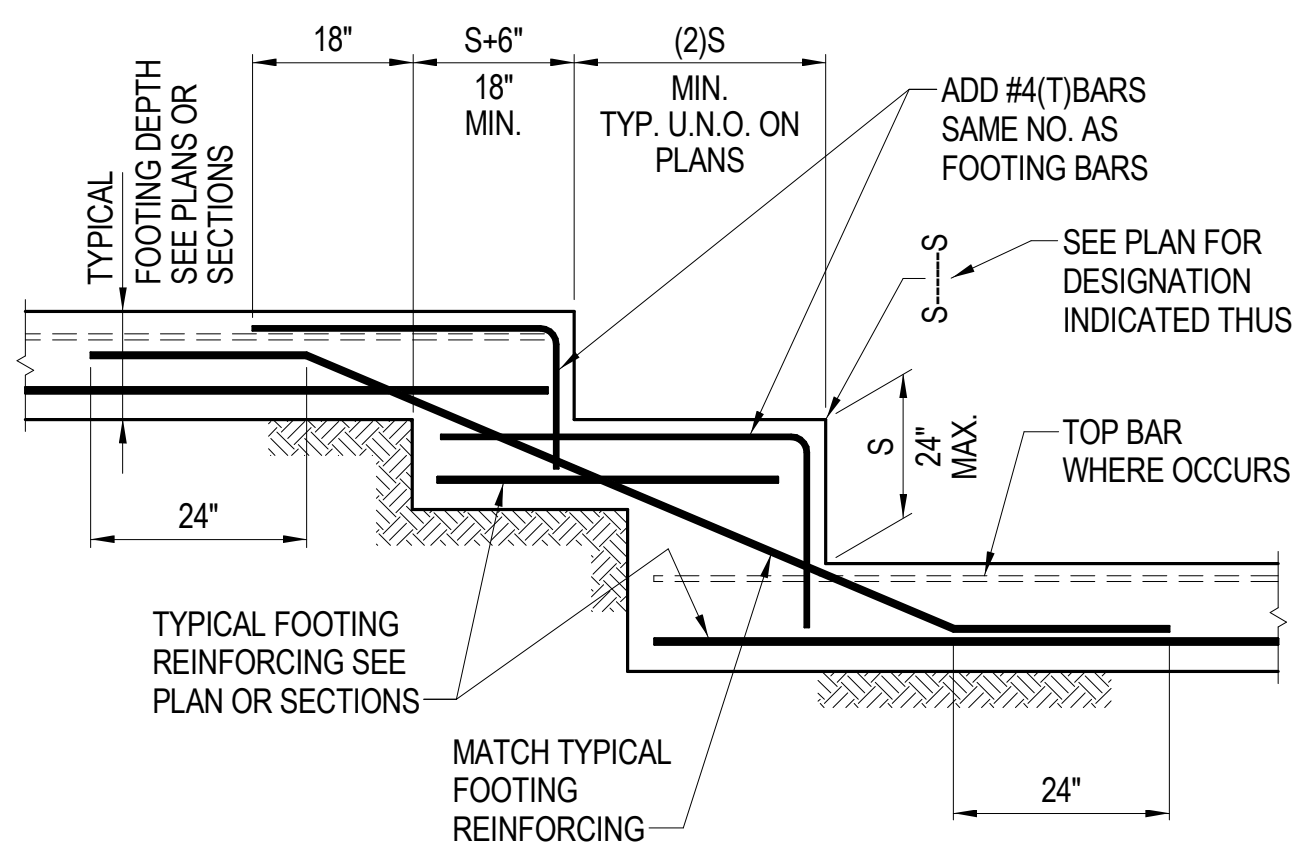
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CAD FILE NAME:	

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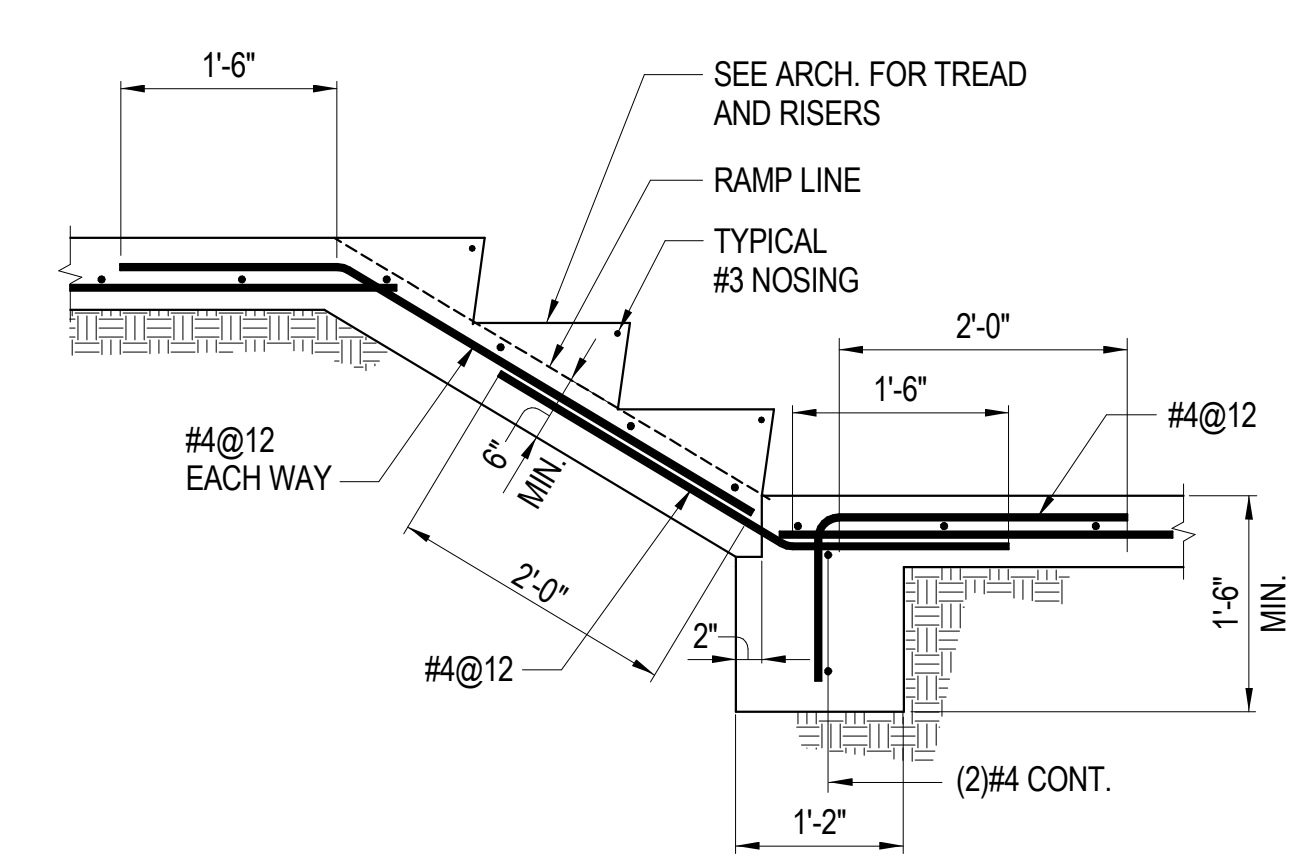
2ND BUILDING PLAN CHECK COORDINATION 05.18.2017



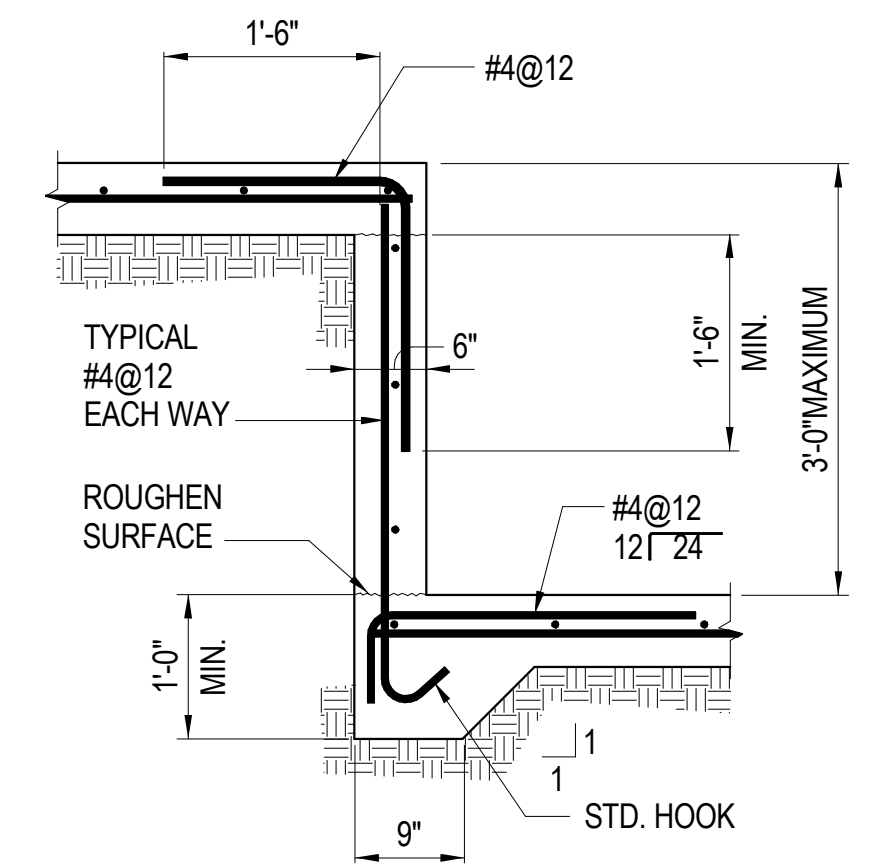
**PIPES THRU FOUNDATION**      **PIPE AND TRENCH AT FOUNDATION**  
**TYPICAL PIPE THRU FOUNDATION DETAILS** ③



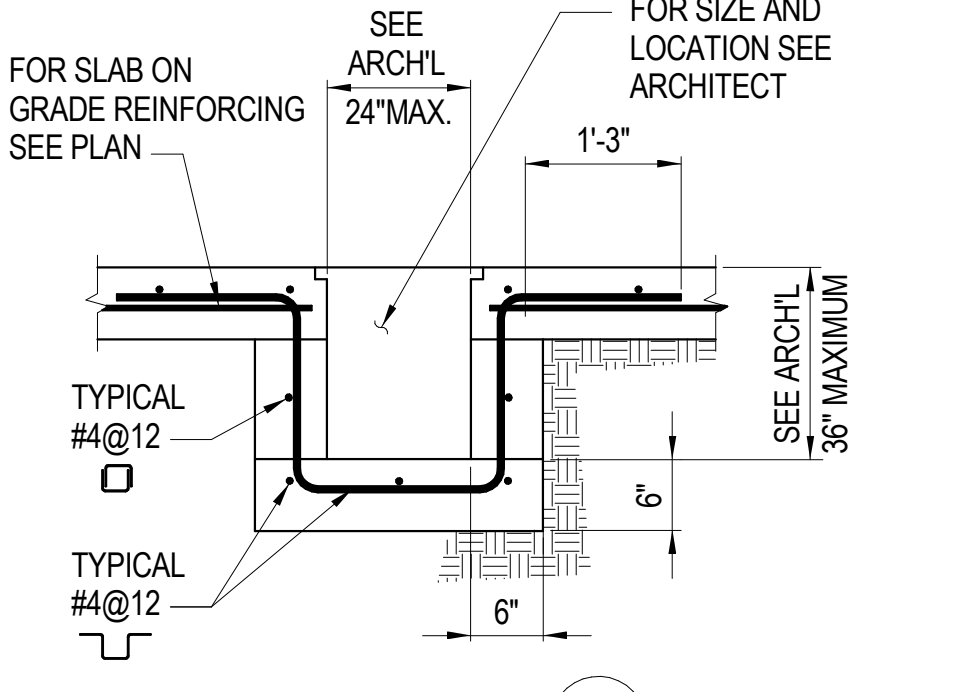
**TYPICAL STEPPED FOOTING AT CONTINUOUS WALL DETAIL** ⑤



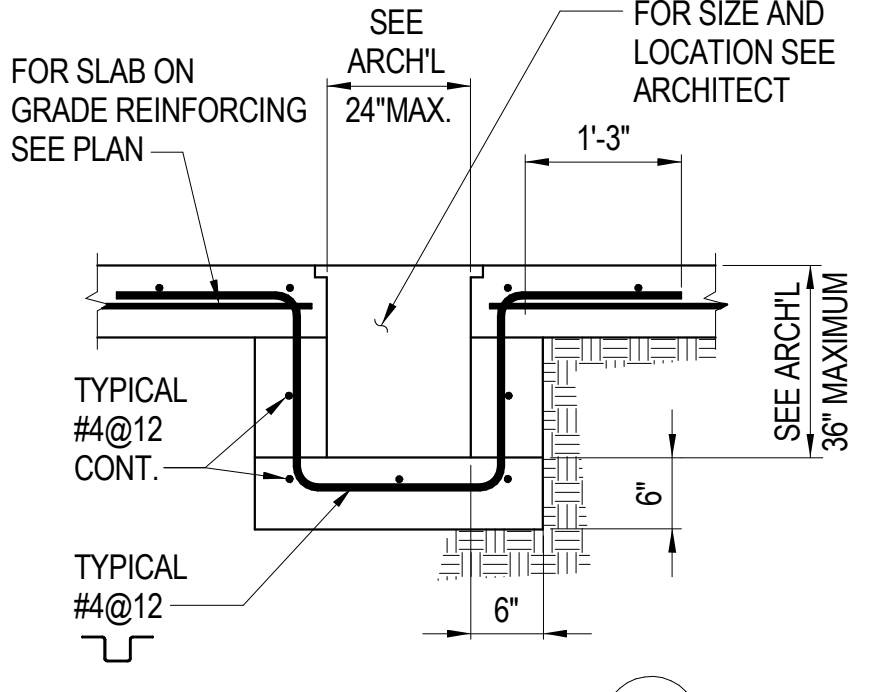
**STAIR OR RAMP ON GRADE** ④



**CONCRETE RETAINING WALL** ⑥



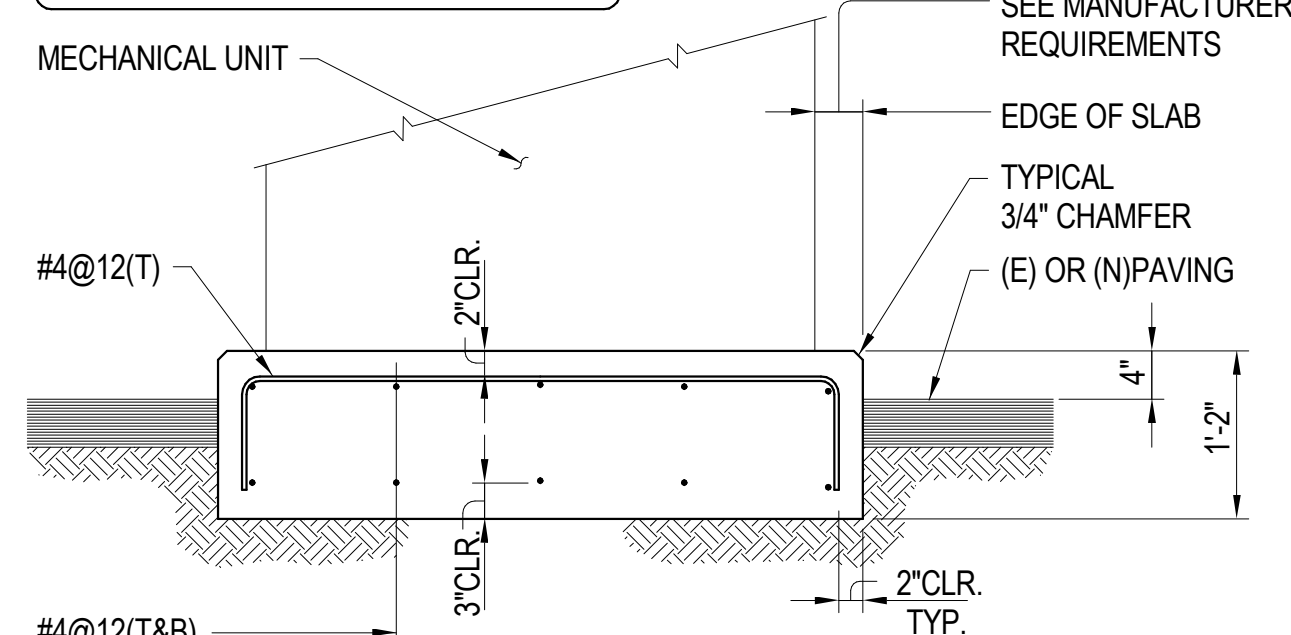
**SUMP PIT** ⑦



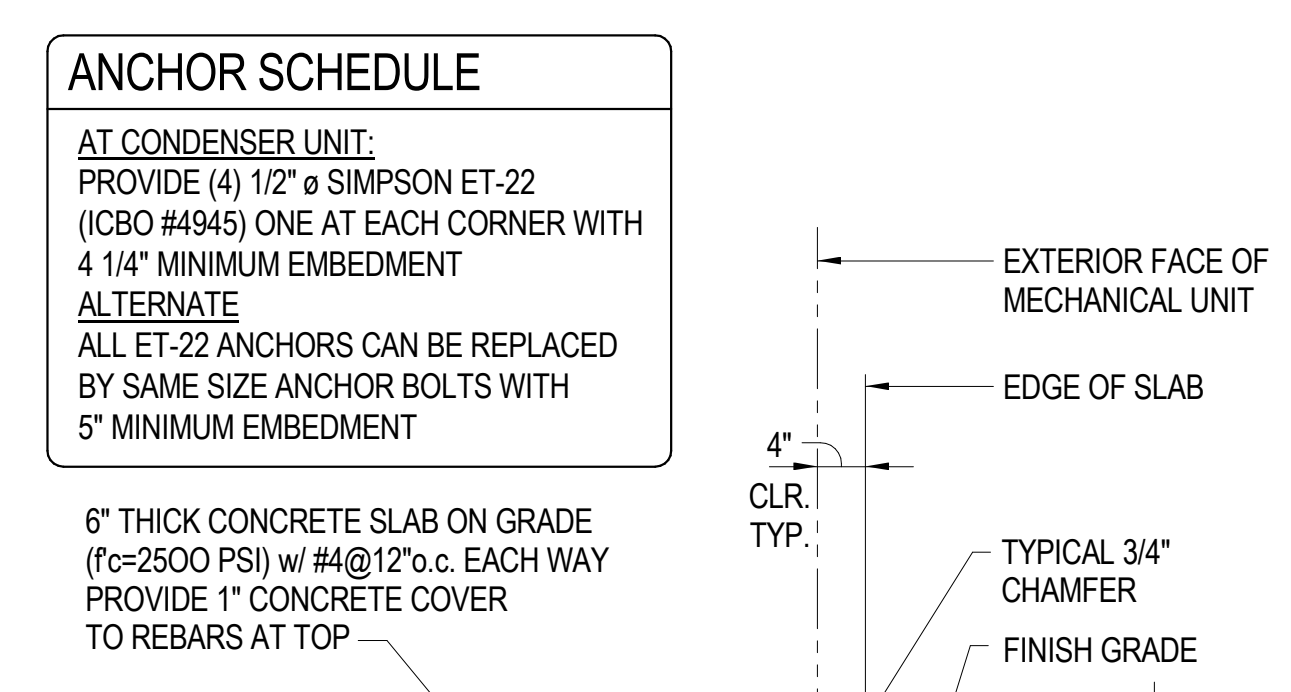
**TRENCH DRAIN** ⑧

**ANCHOR SCHEDULE**  
 AT SWITCHBOARD OR AIR HANDLING UNIT:  
 PROVIDE 6-5/8" ø SIMPSON ET-22 (ICBO #4945) ONE AT EACH CORNER AND TWO AT CENTER WITH 5" MINIMUM EMBEDMENT  
 ALTERNATE  
 ALL ET-22 ANCHORS CAN BE REPLACED BY SAME SIZE ANCHOR BOLTS WITH 5" MINIMUM EMBEDMENT

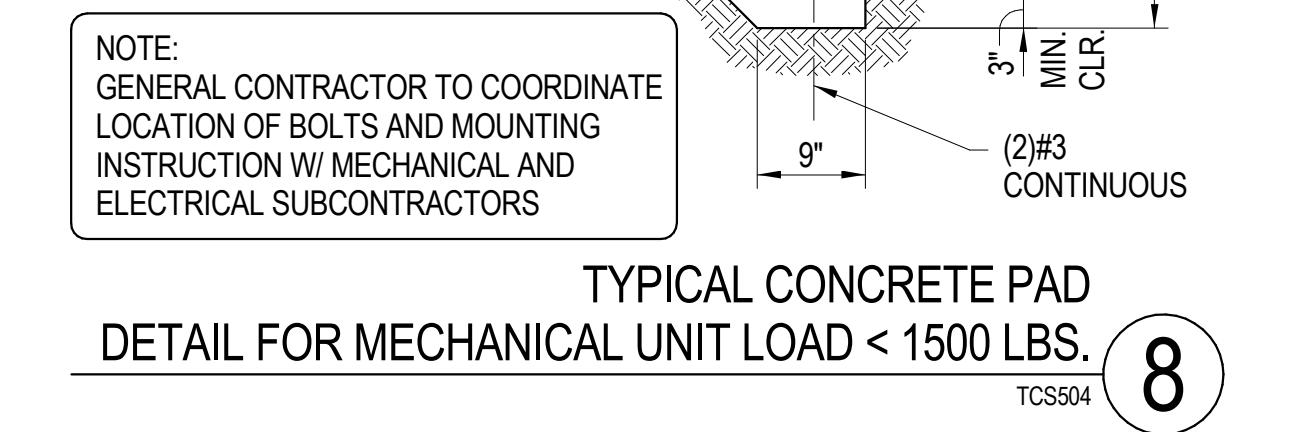
**NOTE:**  
 GENERAL CONTRACTOR TO COORDINATE LOCATION OF BOLTS AND MOUNTING INSTRUCTION WITH MECHANICAL AND ELECTRICAL SUBCONTRACTORS



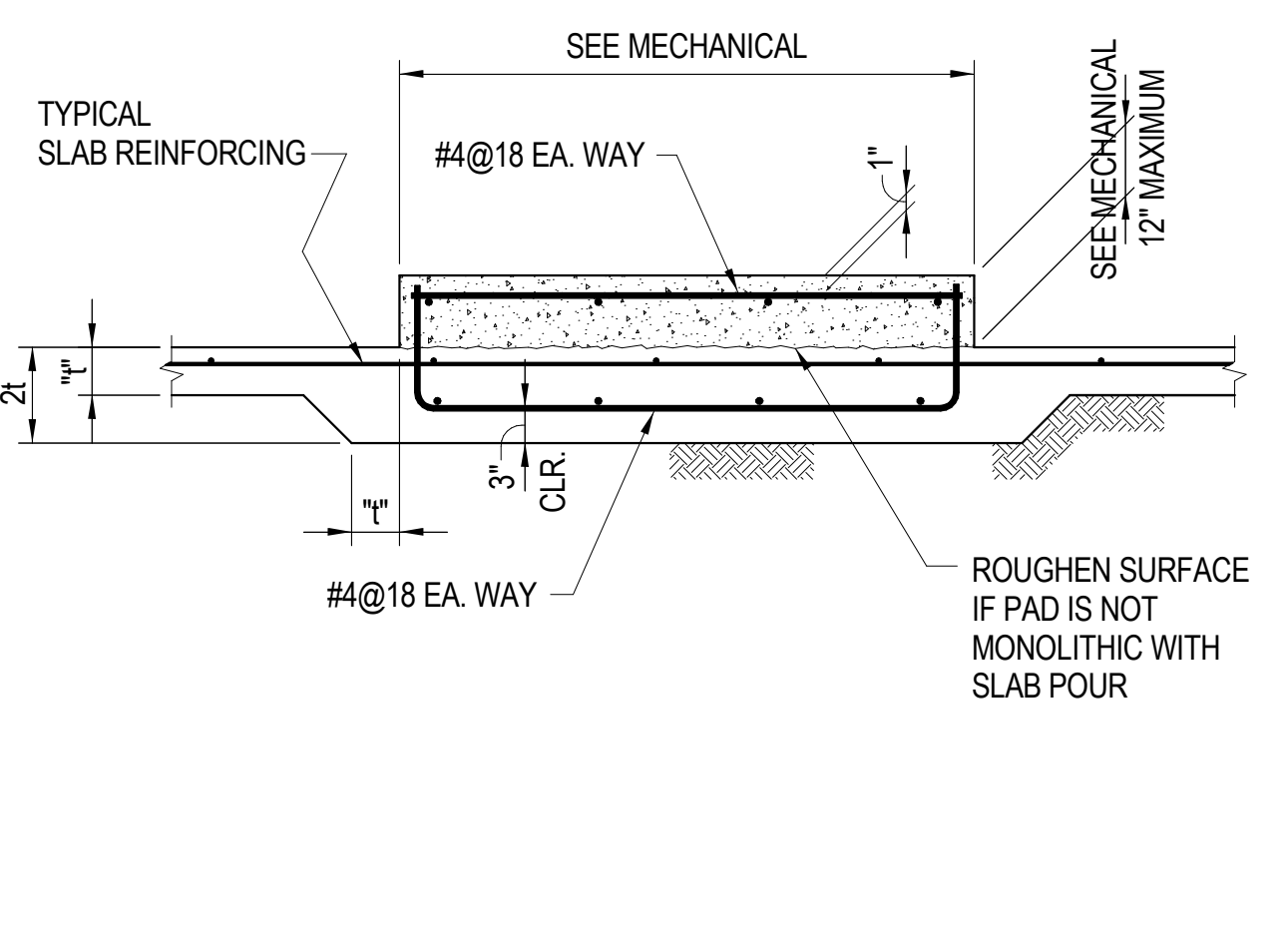
**TYPICAL CONCRETE PAD DETAIL FOR MECHANICAL UNIT LOAD ≥ 1500 LBS.** ⑨



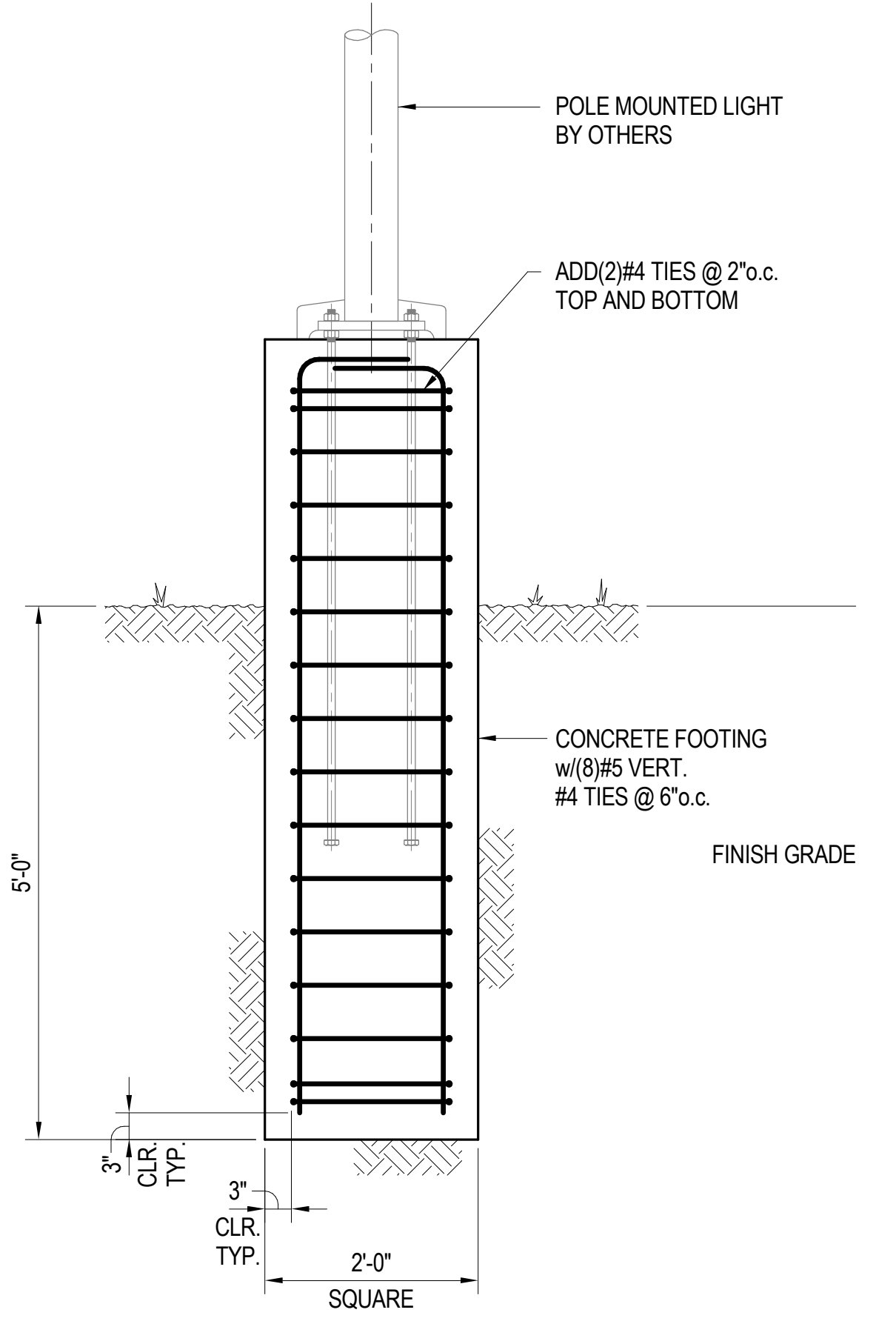
**TYPICAL CONCRETE PAD DETAIL FOR MECHANICAL UNIT LOAD < 1500 LBS.** ⑩



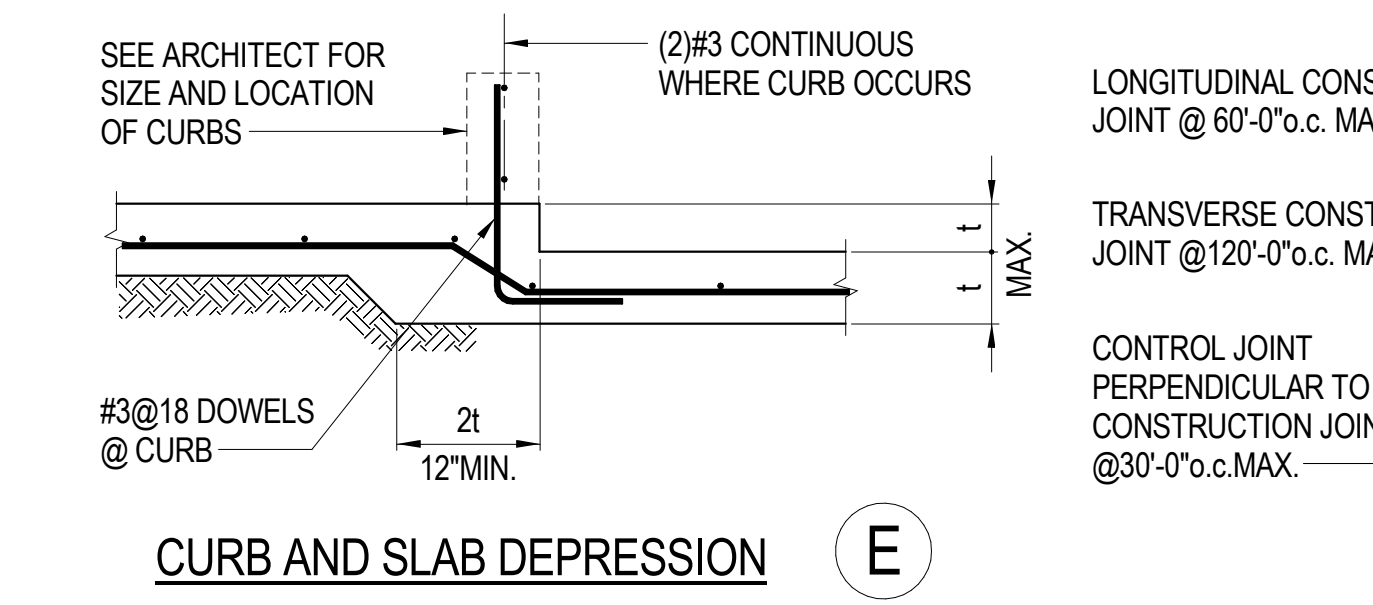
**TYPICAL EQUIPMENT PAD DETAIL** ⑪



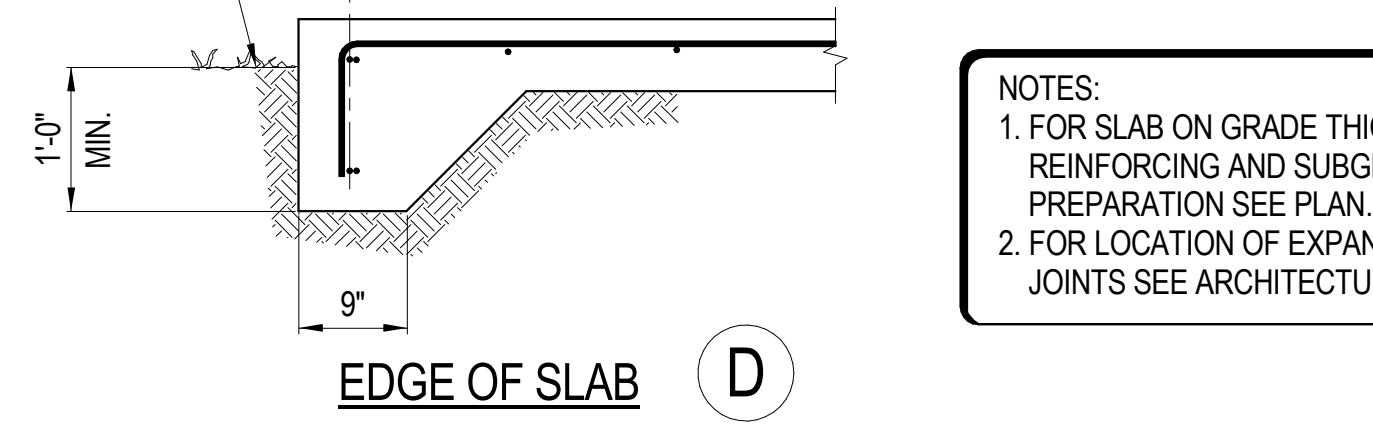
**TYPICAL SLAB ON GRADE BLOCKOUT AT COLUMN DETAILS** ⑫



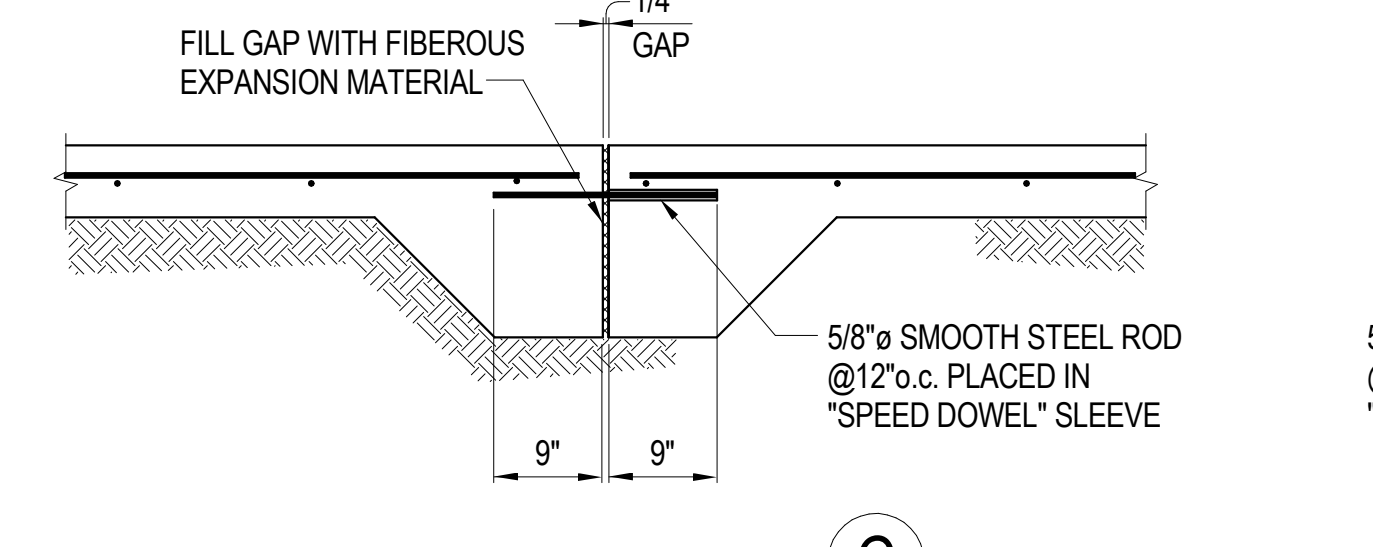
**TYPICAL PARKING LOT POLE MOUNTED LIGHT (25' TALL MAXIMUM) DETAIL** ⑬



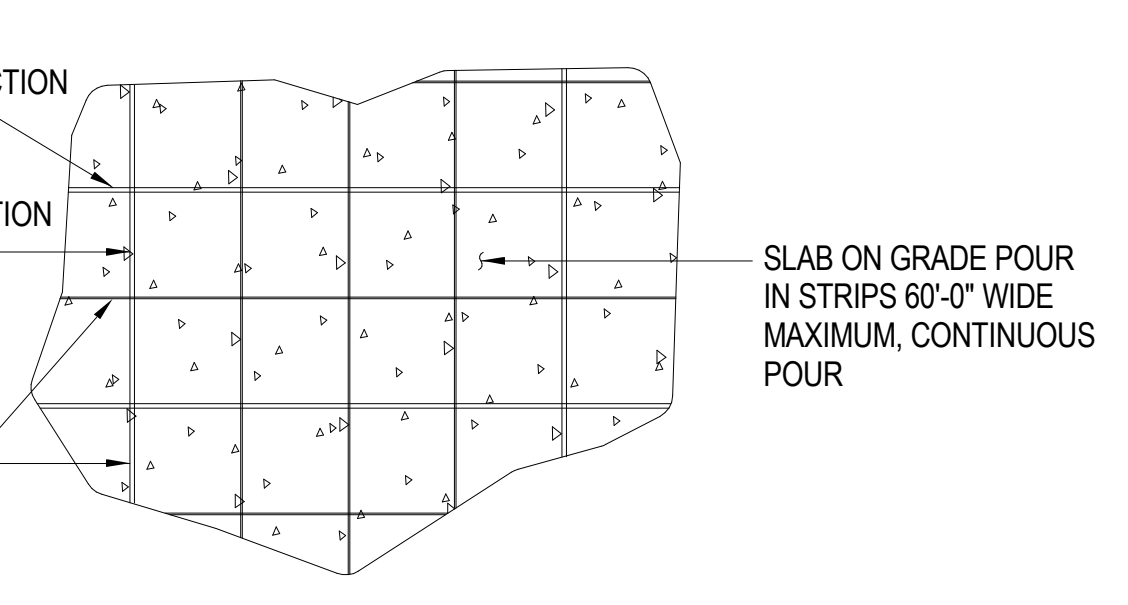
**CURB AND SLAB DEPRESSION** ⑬



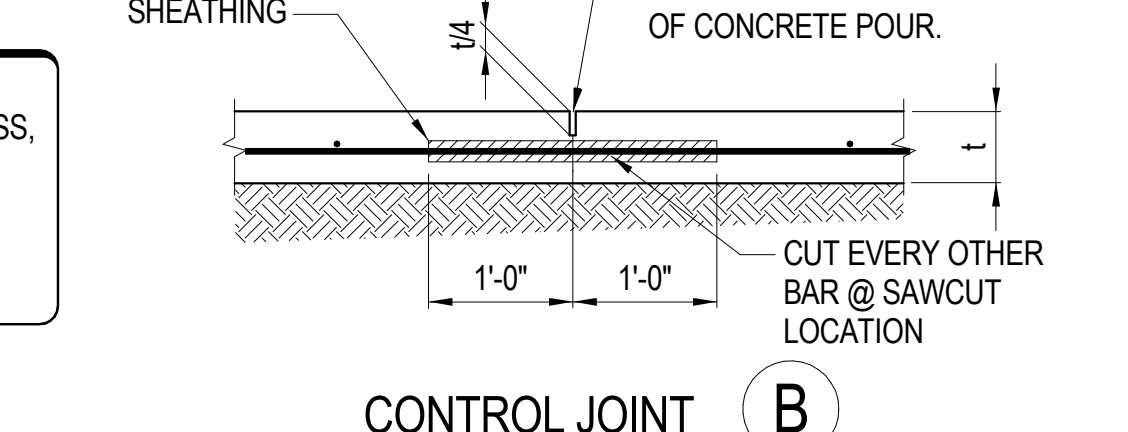
**EDGE OF SLAB** ⑭



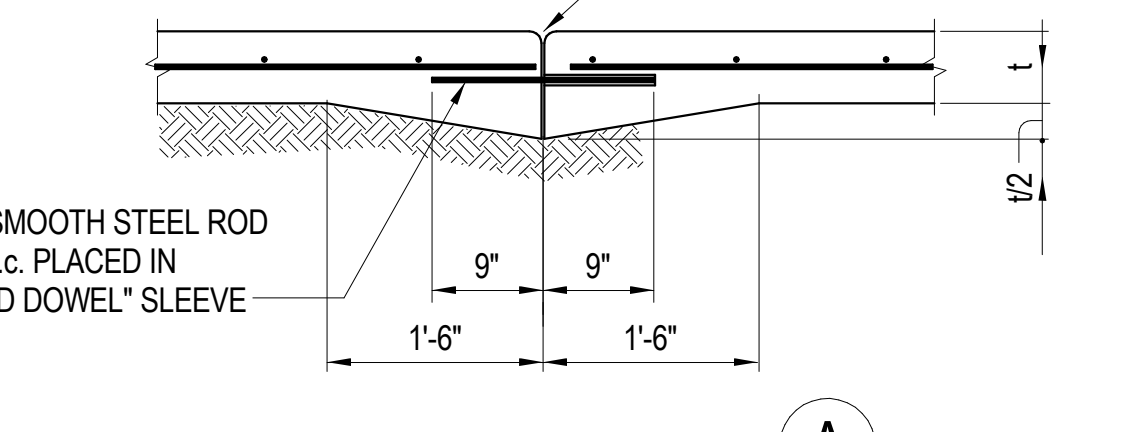
**EXPANSION JOINT** ⑮



**CONSTRUCTION JOINT** ⑯



**CONTROL JOINT** ⑰



**TYPICAL SLAB ON GRADE DETAILS** ⑱



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 2850 REDHILL AVENUE, SUITE 200, SANTA ANA, CA 92705-5943  
 949 250 0507 www.whearchitects.com fax 949 250 1529  
 6111 BOLLINGER CANYON ROAD, SUITE 405, SAN RAMON, CA 94583-1186  
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 3621 Harbor Boulevard  
 Suite 125  
 Santa Ana, CA  
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 714.557.8551 T  
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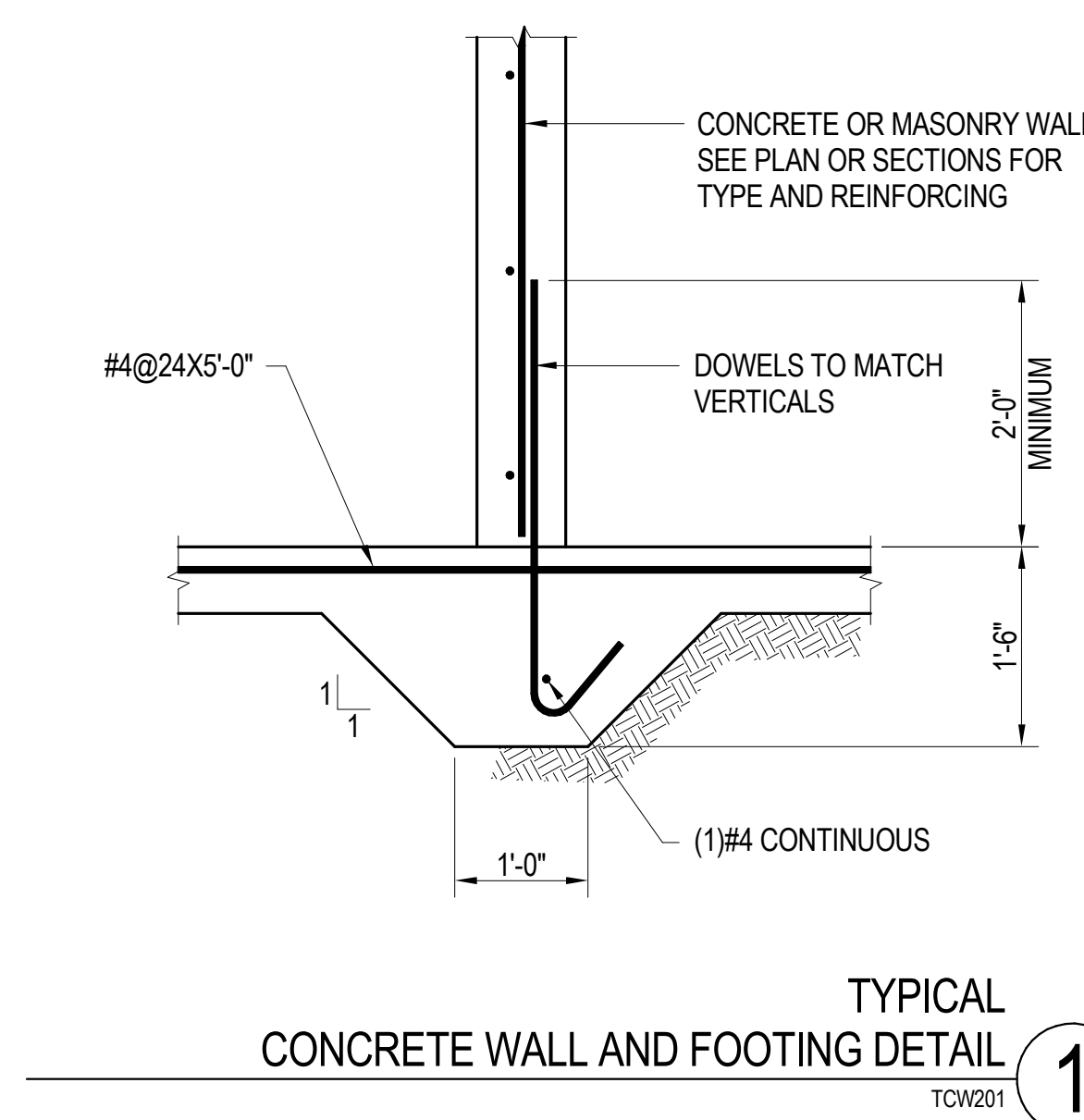
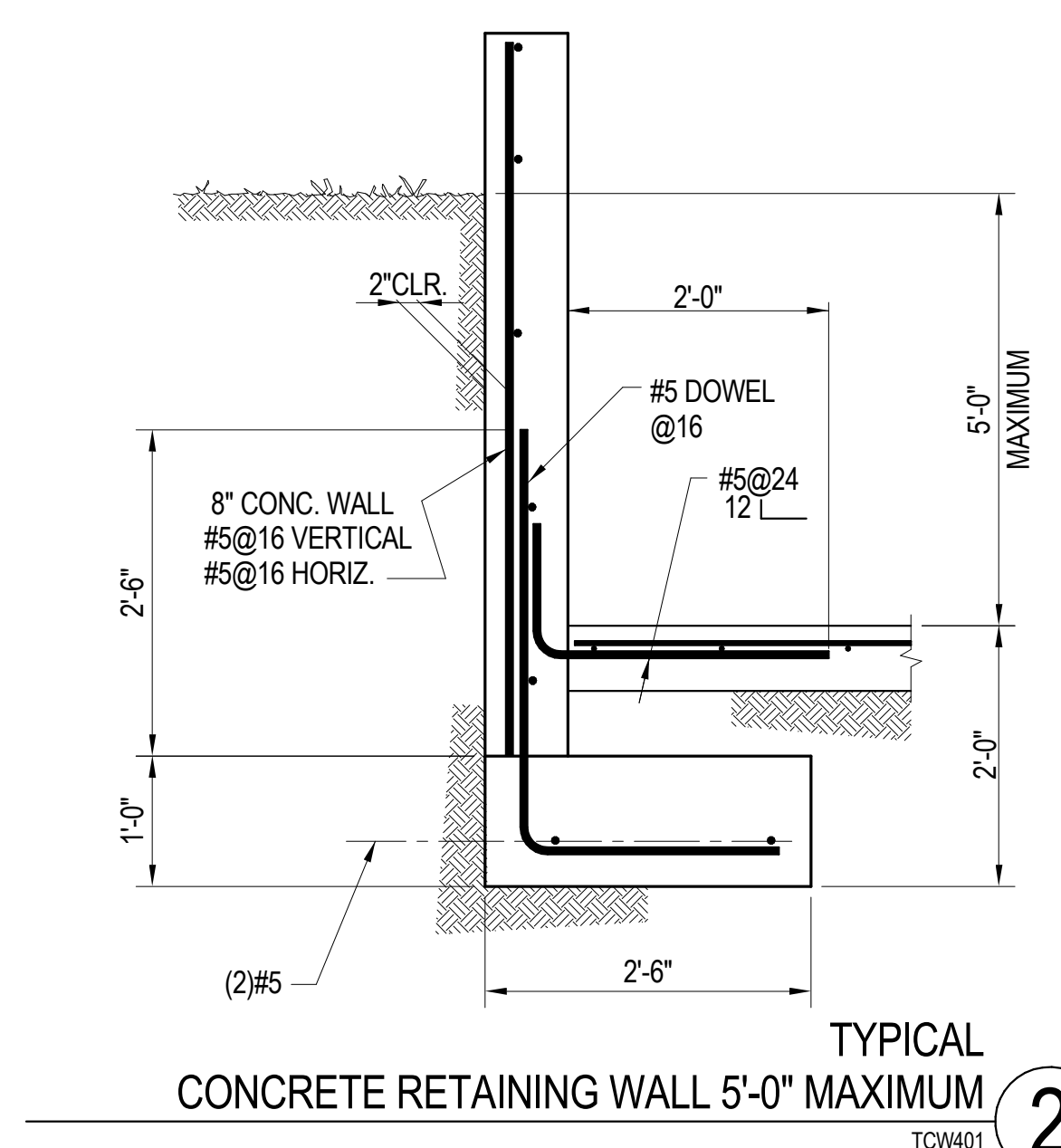
**REVISIONS**

NO.	DATE	DESCRIPTION
	07/14/17	3RD PLAN CHECK SUBMITTAL

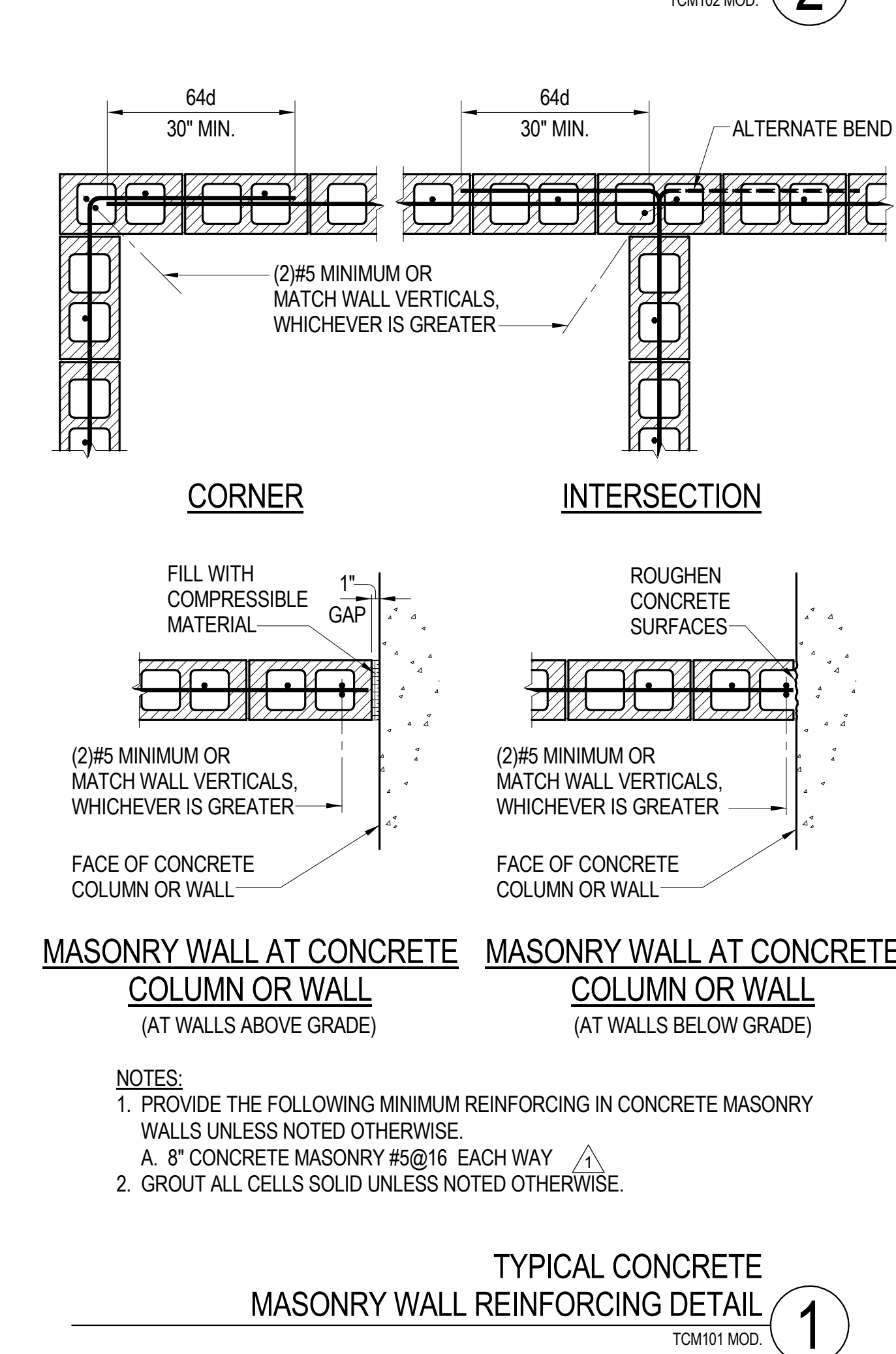
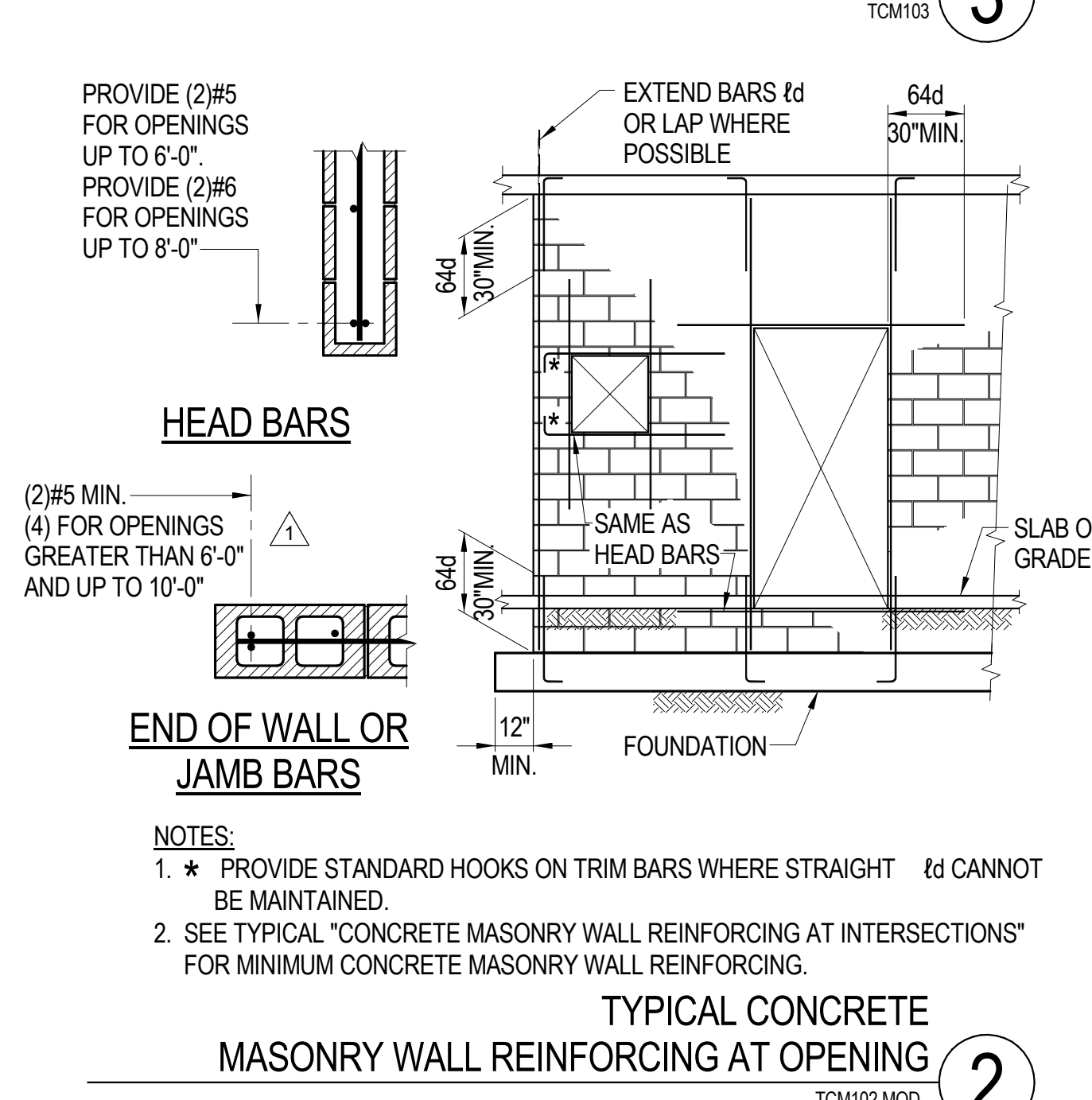
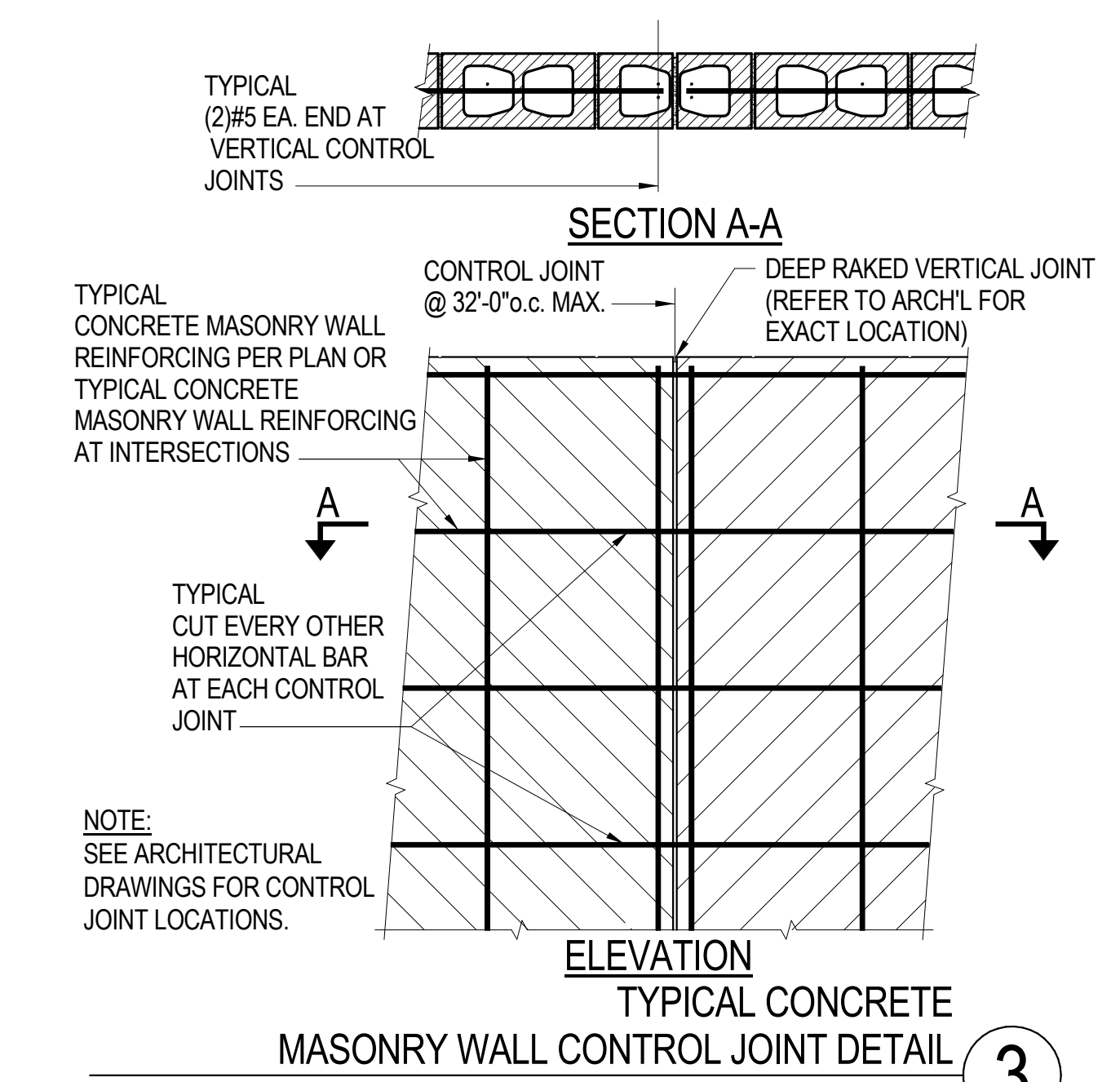
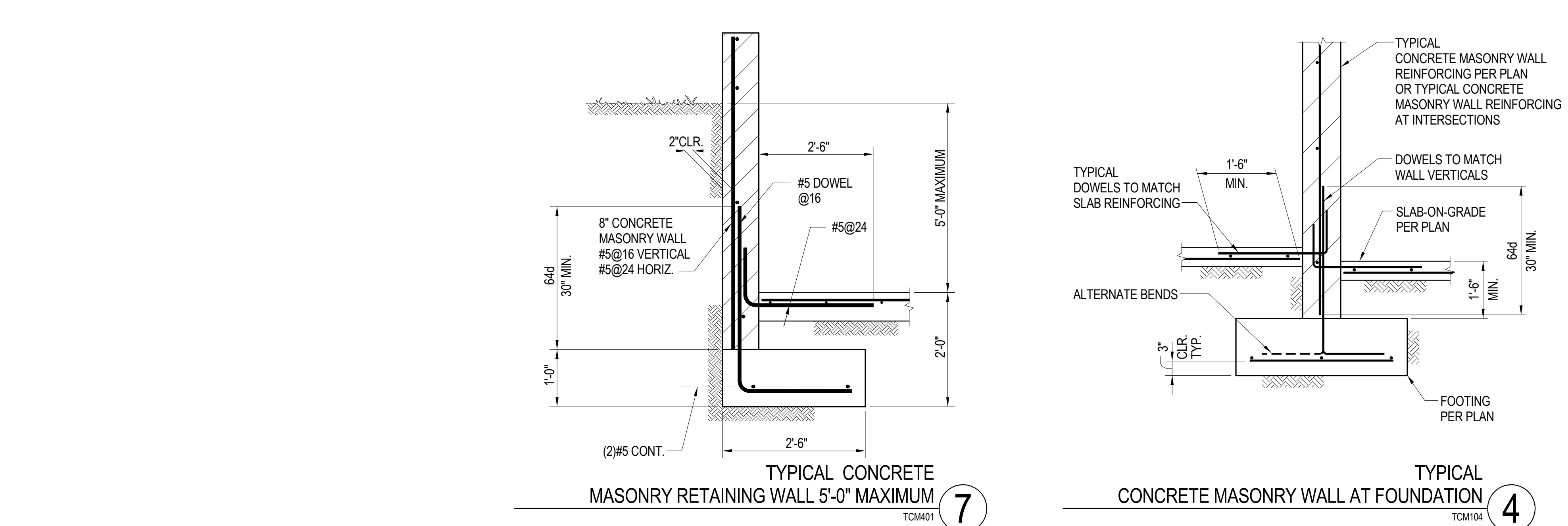
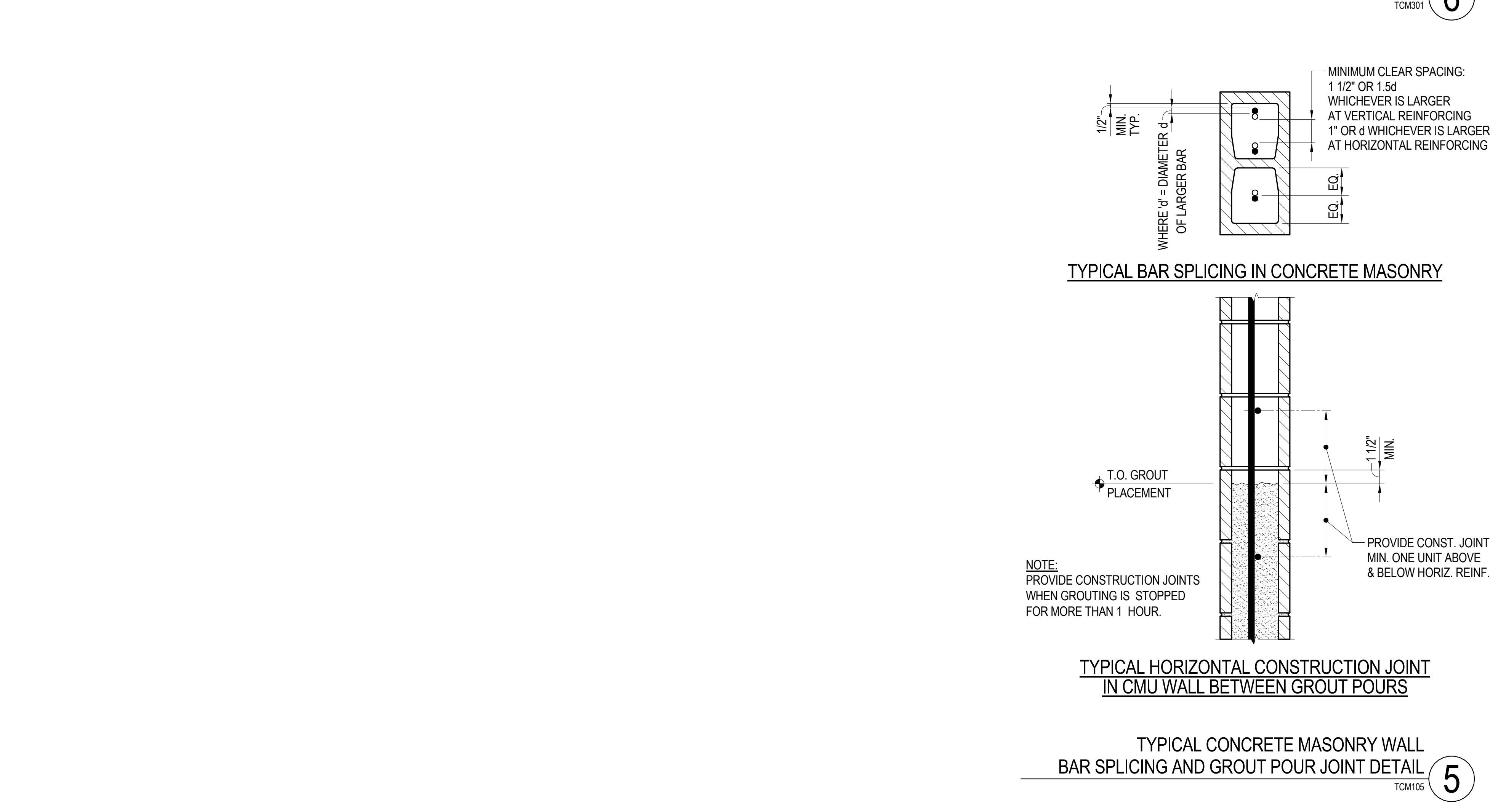
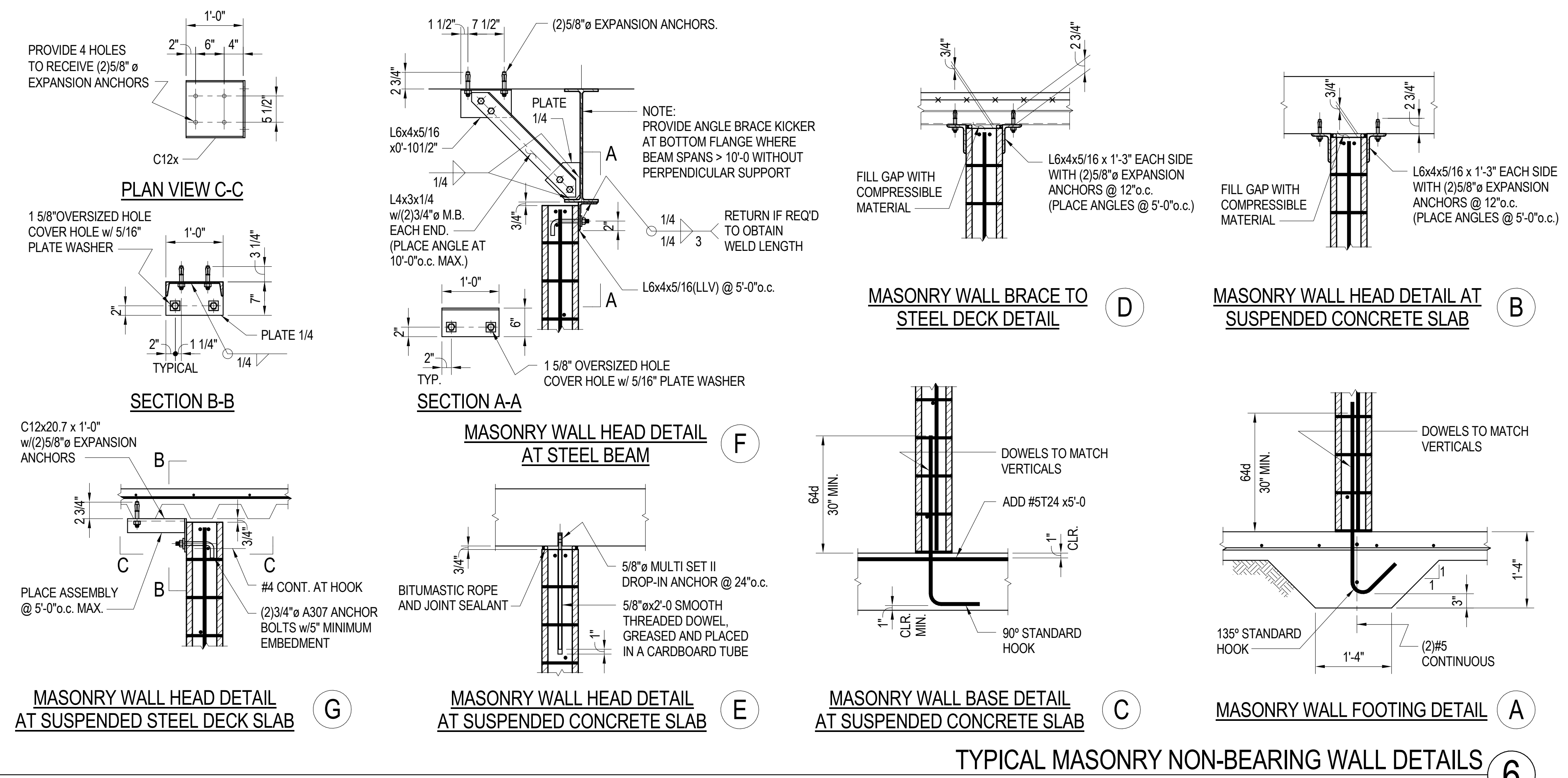
**TYPICAL CONCRETE WALL DETAILS**

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PROJECT MANAGER :	MH
DESIGNER :	JN
DRAWN BY :	FS
REVIEWED BY :	
1st DEPT. SUBMITTAL :	X/X/2016
ISSUED FOR CONST. :	
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S0.21



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**REVISIONS**

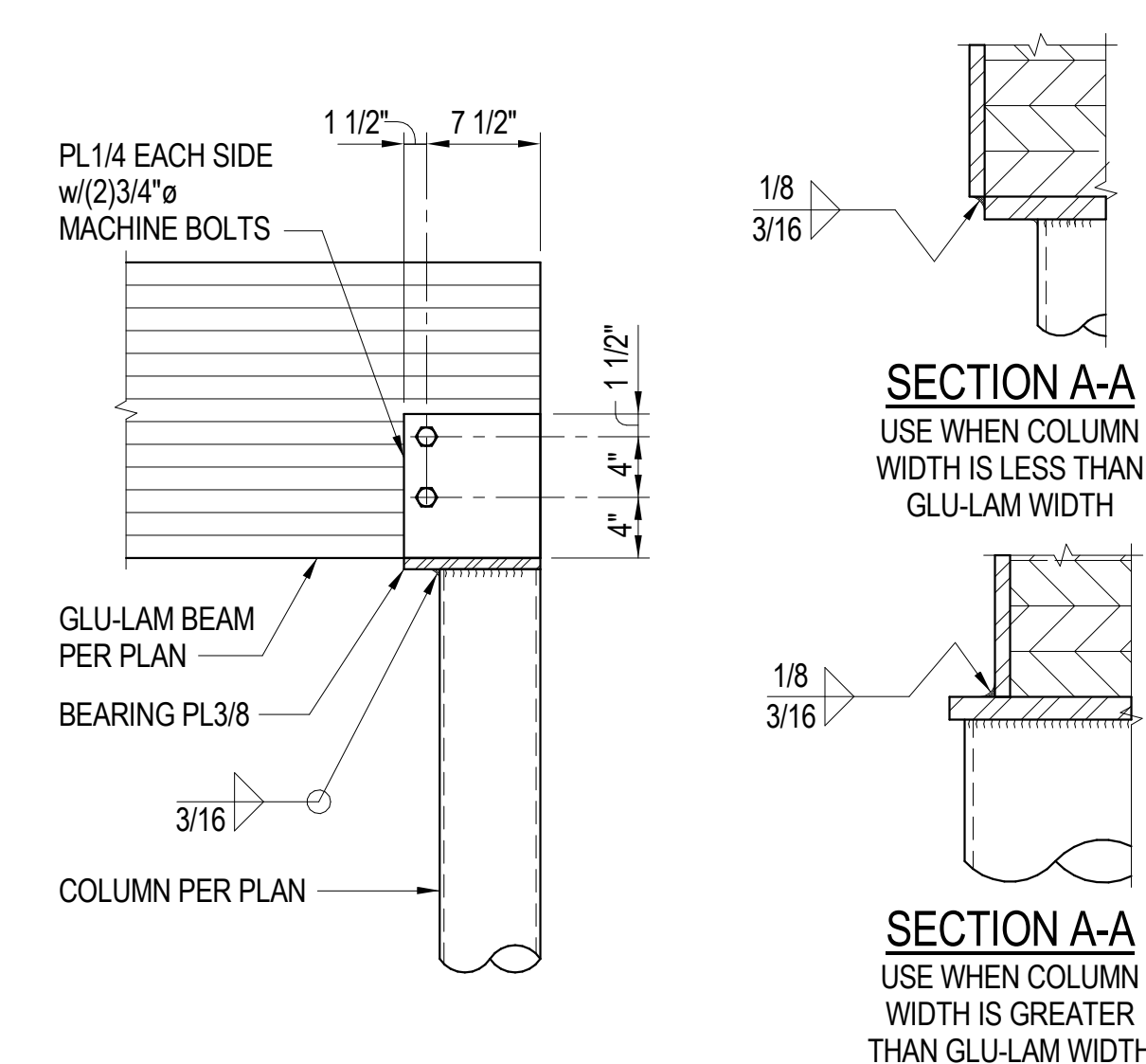
NO.	DATE	DESCRIPTION
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	07/14/17	3RD PLAN CHECK SUBMITTAL

**TYPICAL CONCRETE MASONRY WALL DETAILS**

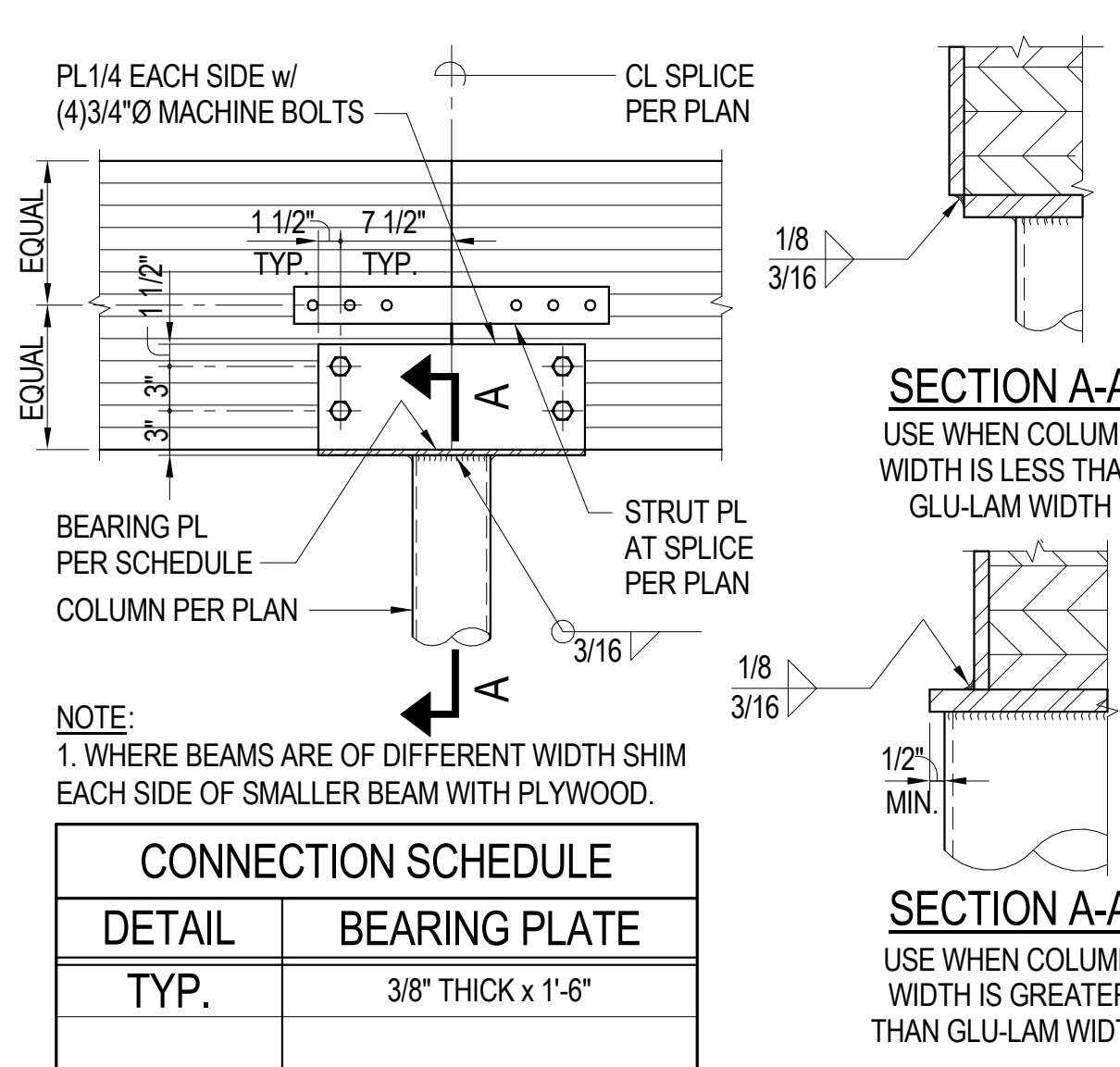
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ISSUED FOR CONST.:  
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CAD FILE NAME:

**S0.31**

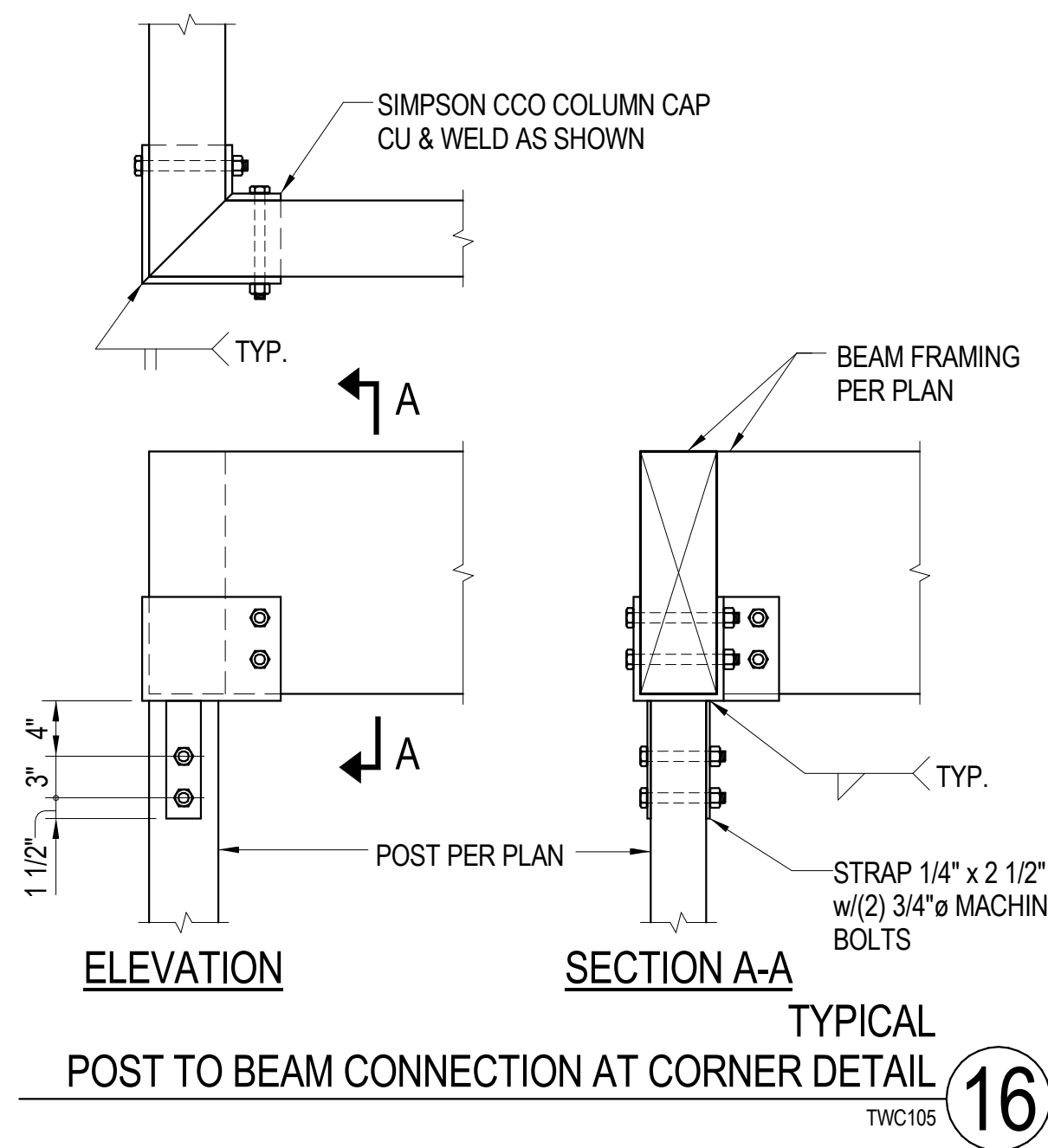




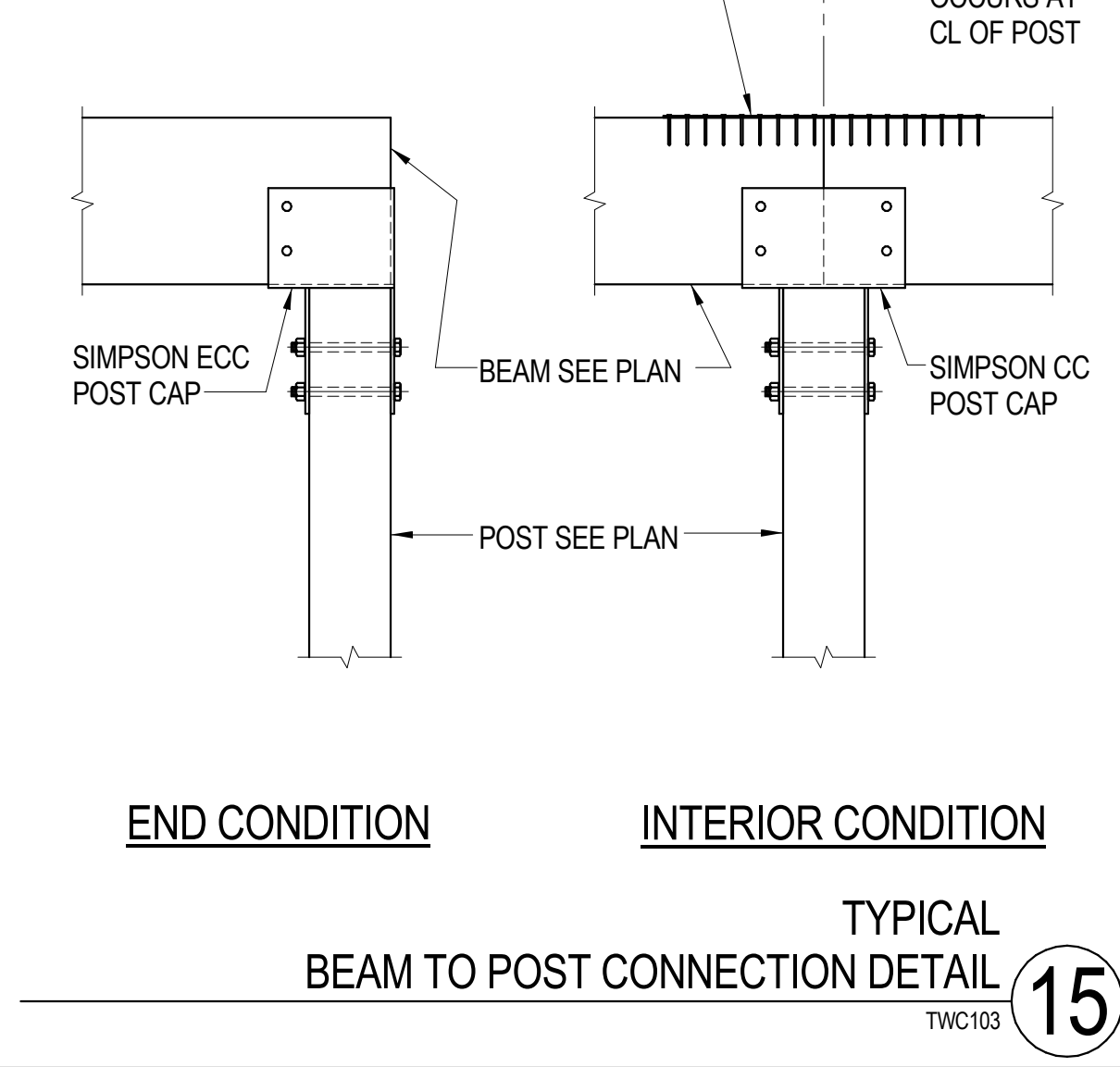
**TYPICAL COLUMN CONNECTION AT GLU-LAM BEAM END DETAIL** 18  
TWC203



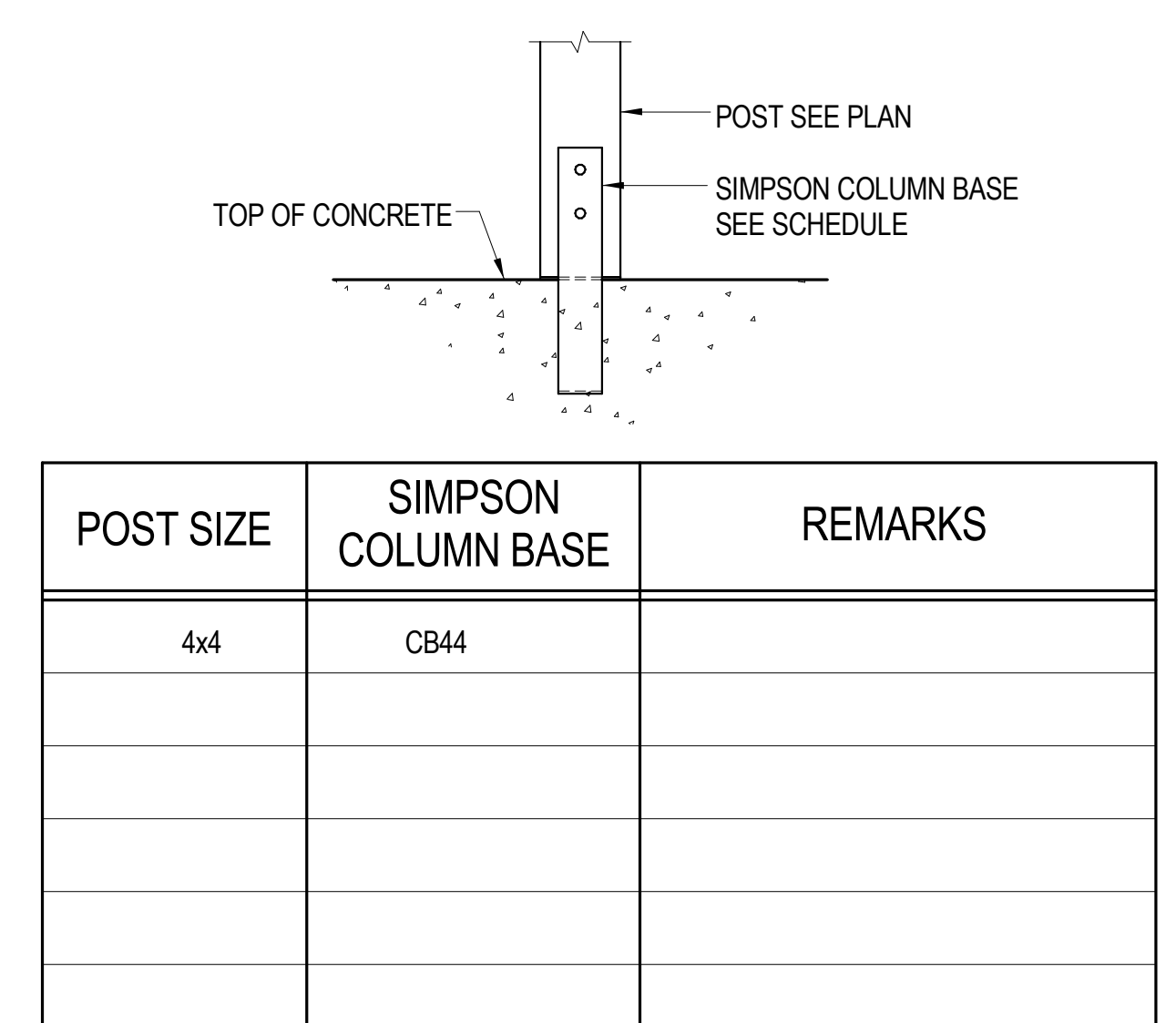
**TYPICAL COLUMN CONNECTION AT GLU-LAM BEAM SPLICE DETAIL** 17  
TWC202



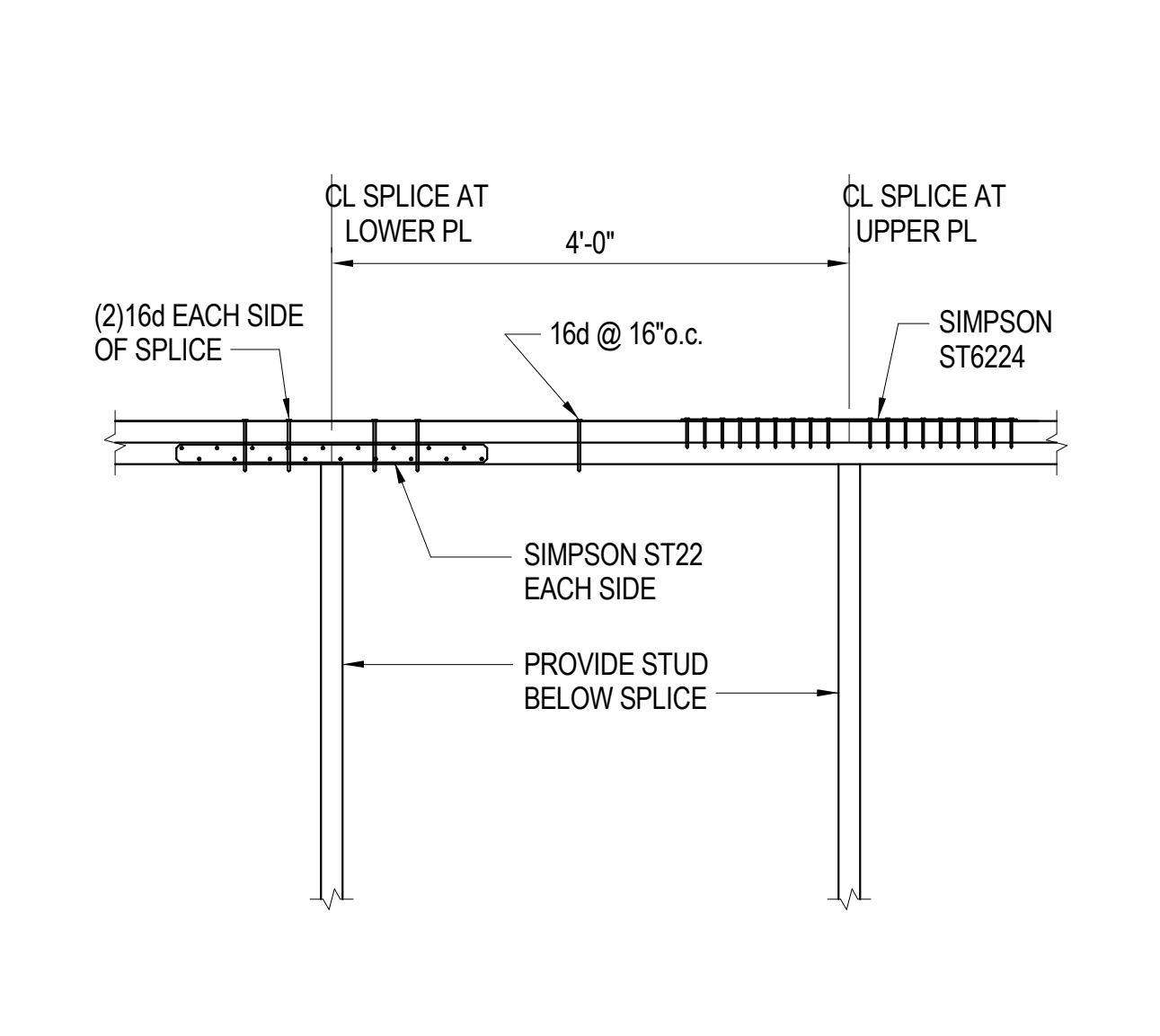
**TYPICAL POST TO BEAM CONNECTION AT CORNER DETAIL** 16  
TWC105



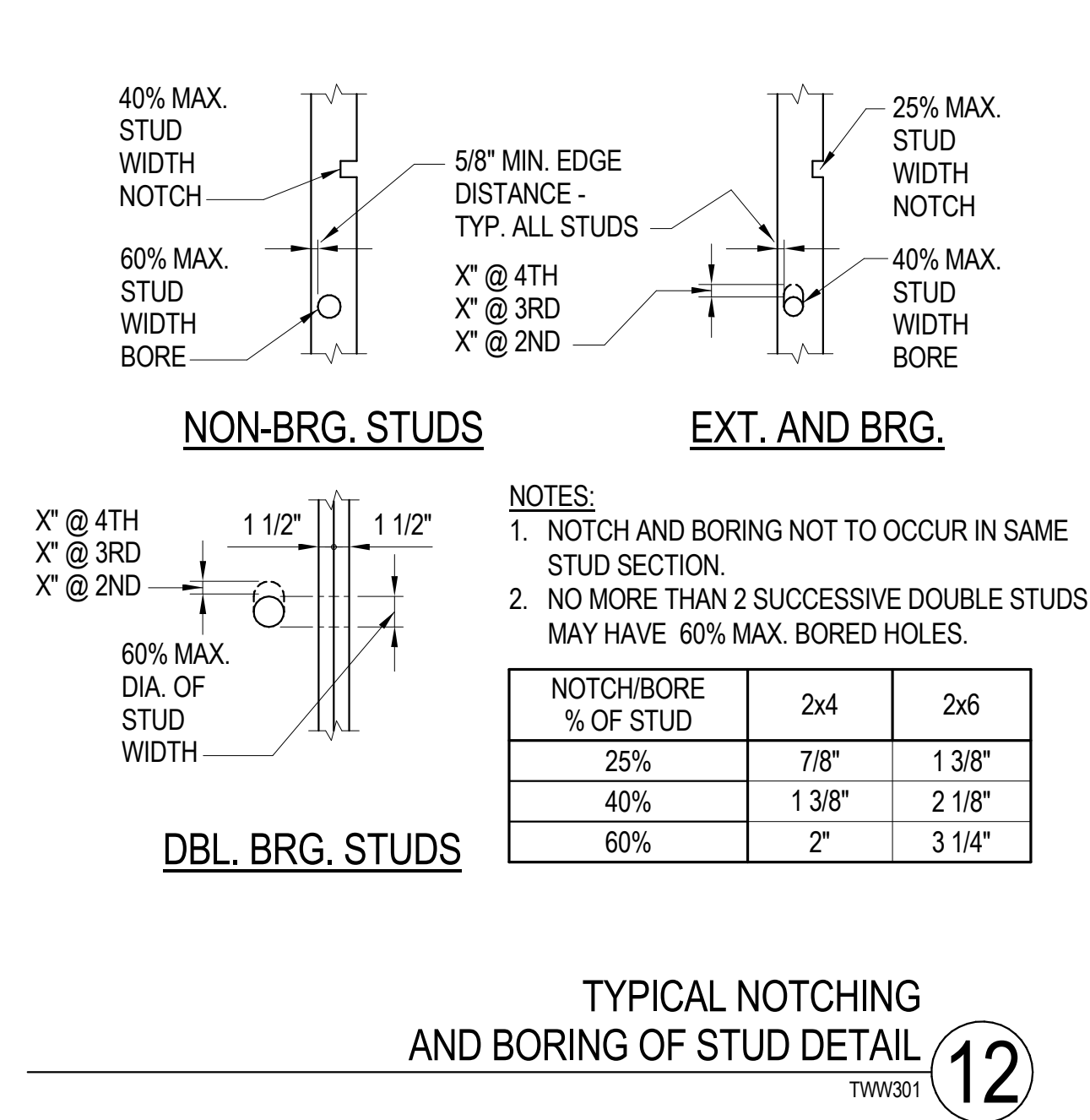
**TYPICAL BEAM TO POST CONNECTION DETAIL** 15  
TWC103



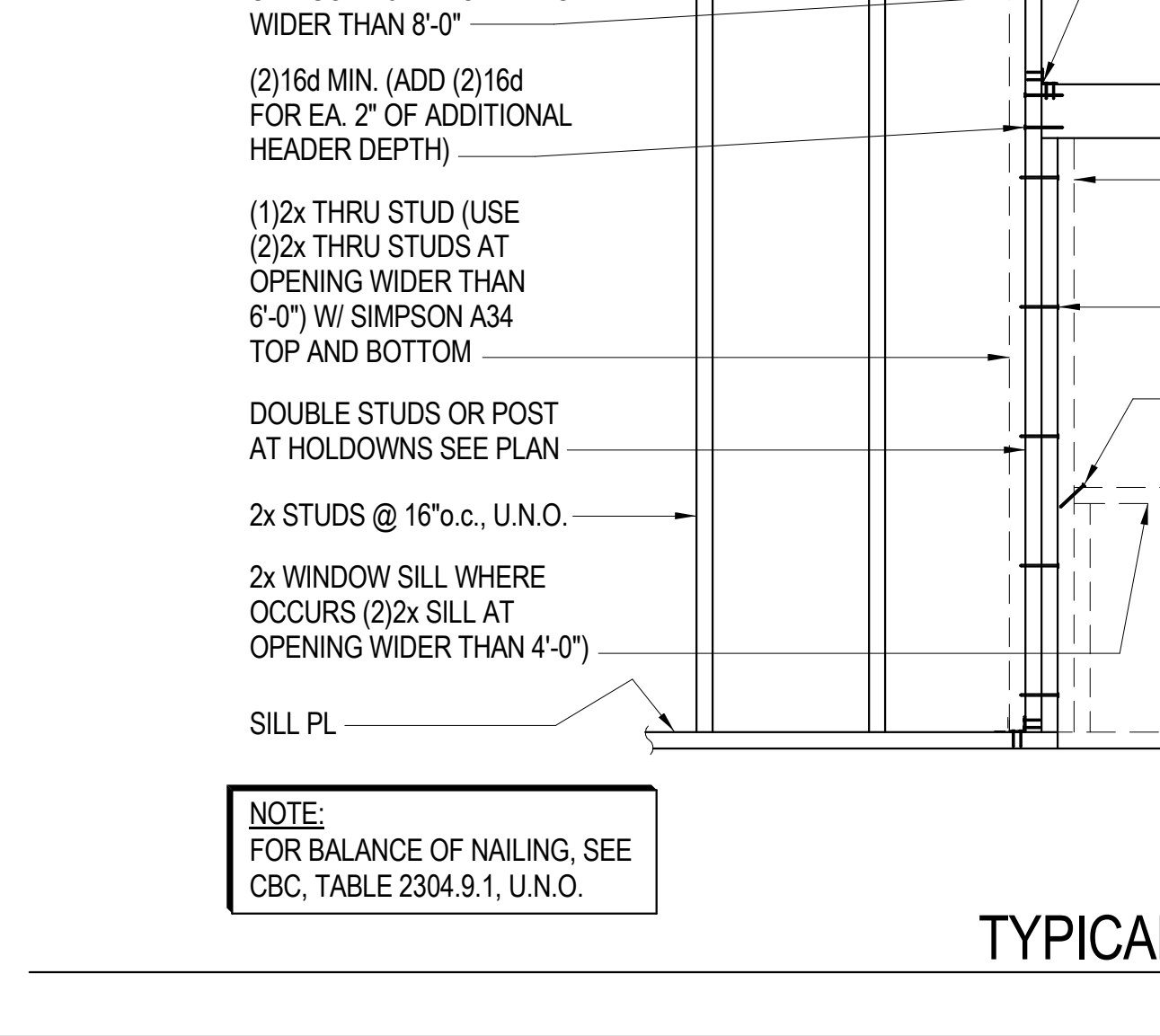
**TYPICAL ISOLATED WOOD POST BASE SCHEDULE** 14  
TWC101



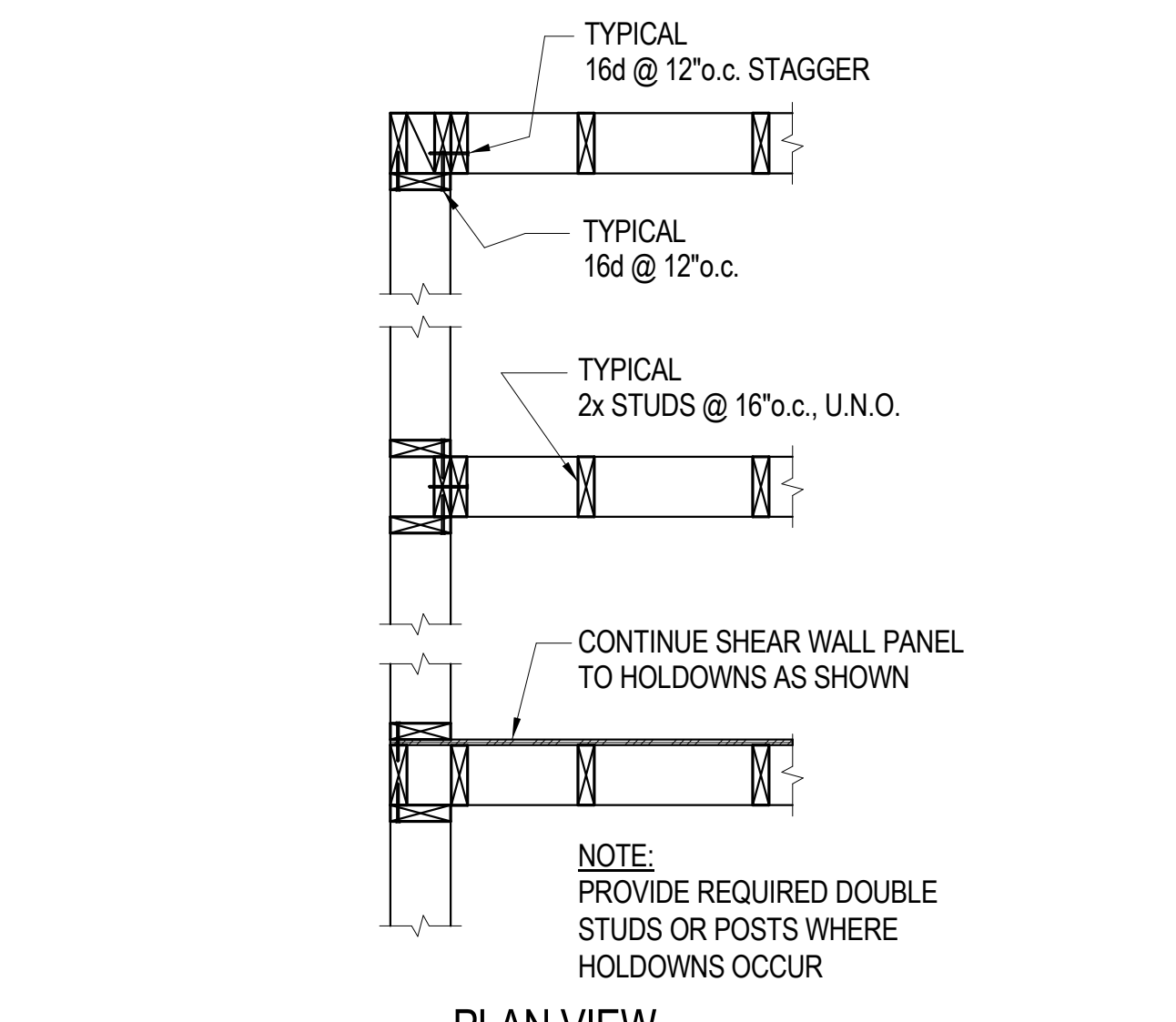
**TYPICAL MINIMUM TOP PLATE SPLICE DETAIL** 13  
TWC305



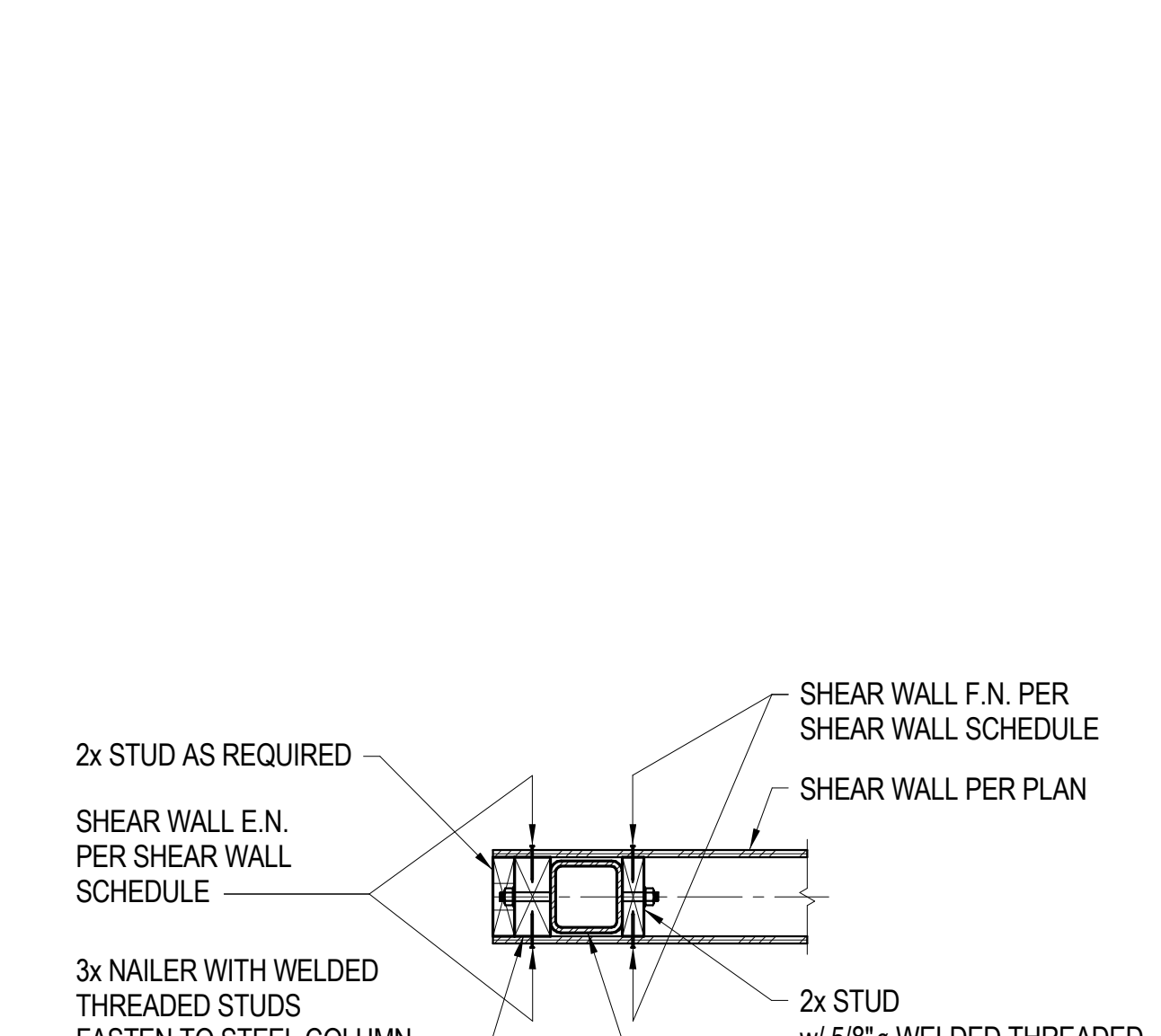
**TYPICAL NOTCHING AND BORING OF STUD DETAIL** 12  
TWC301



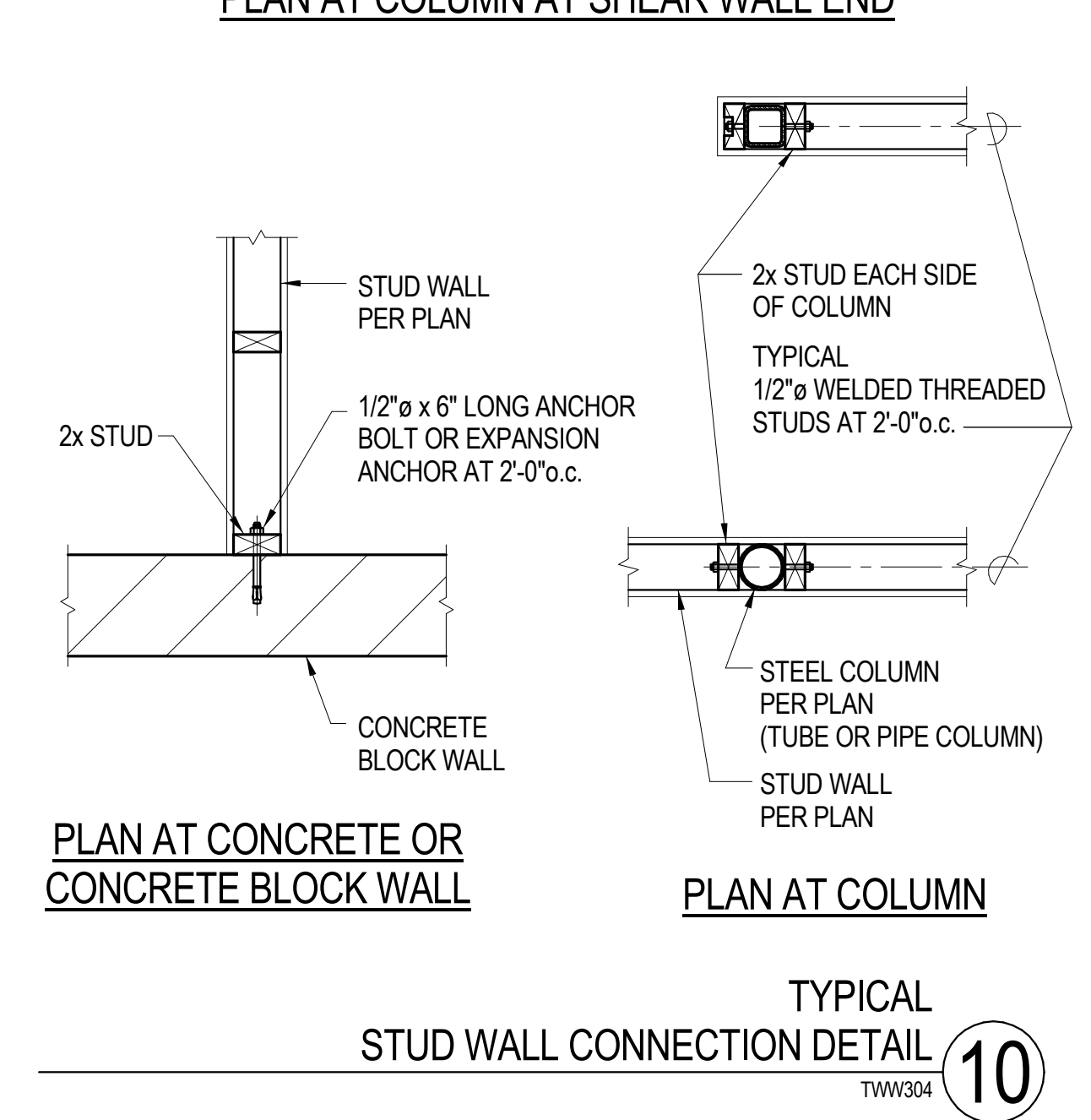
**TYPICAL STUD WALL FRAMING AT OPENING DETAIL** 9  
TWC303



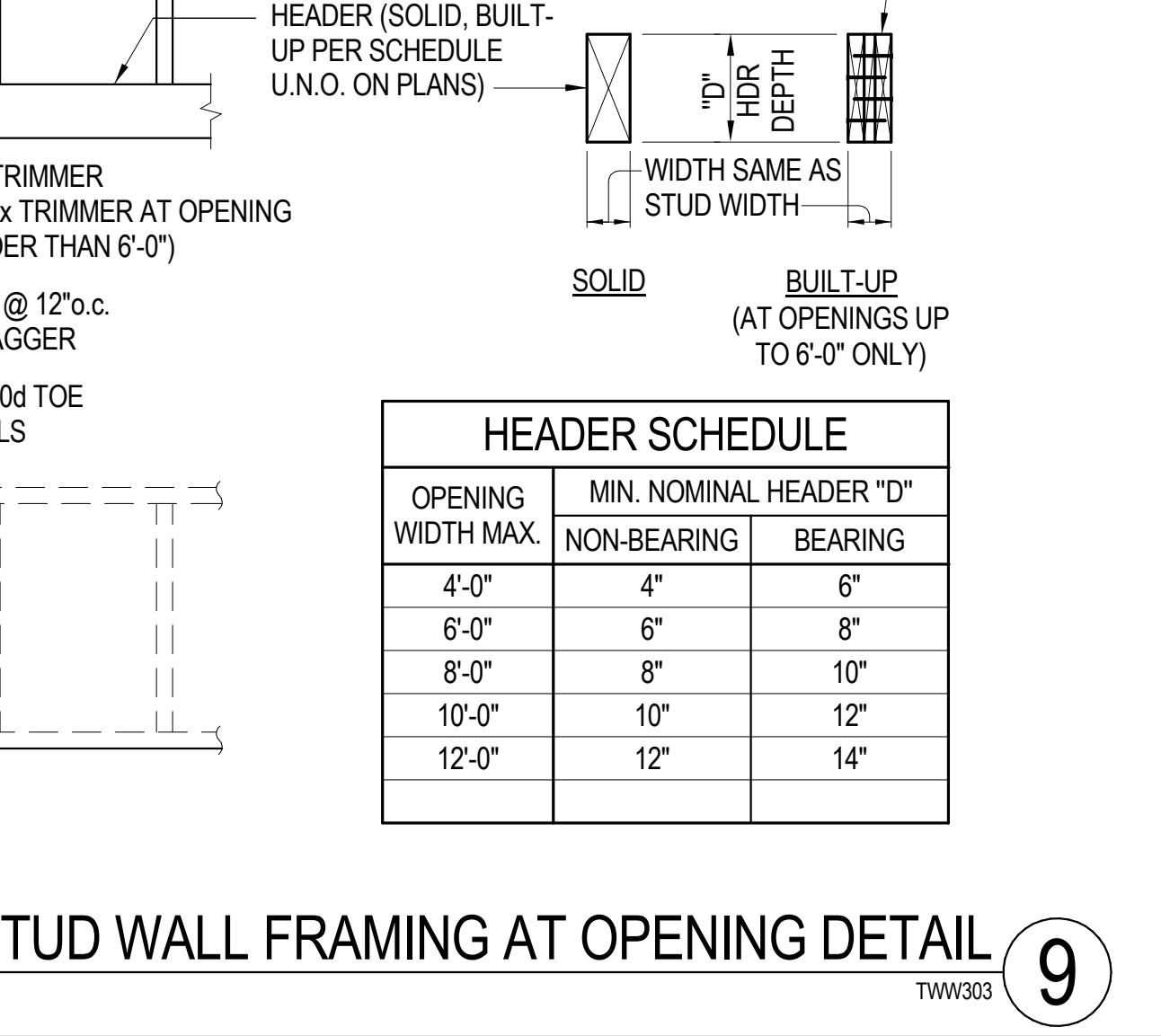
**TYPICAL STUD WALL AT INTERSECTIONS DETAIL** 11  
TWC302



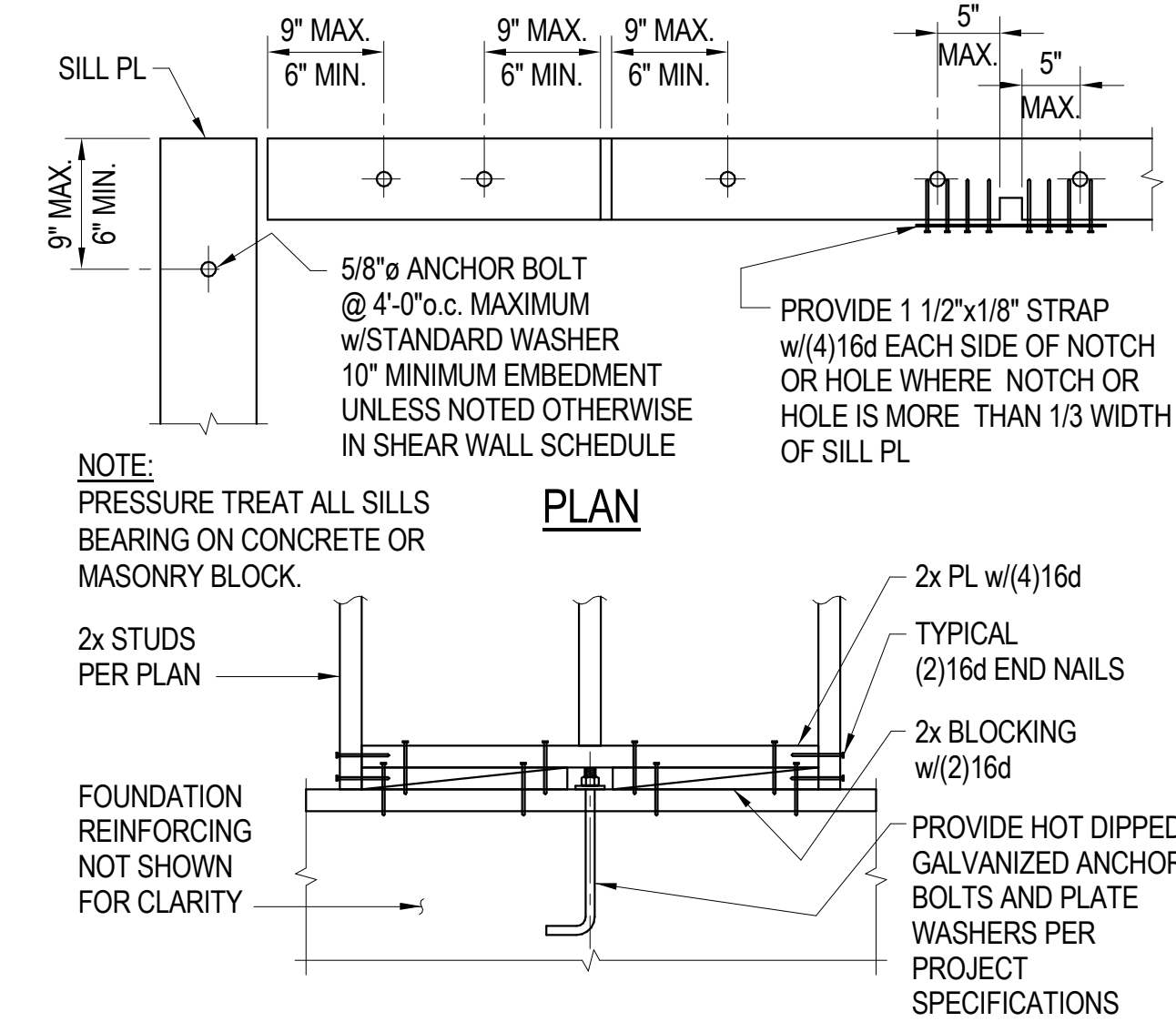
**TYPICAL PLAN AT COLUMN AT SHEAR WALL END** 10  
TWC304



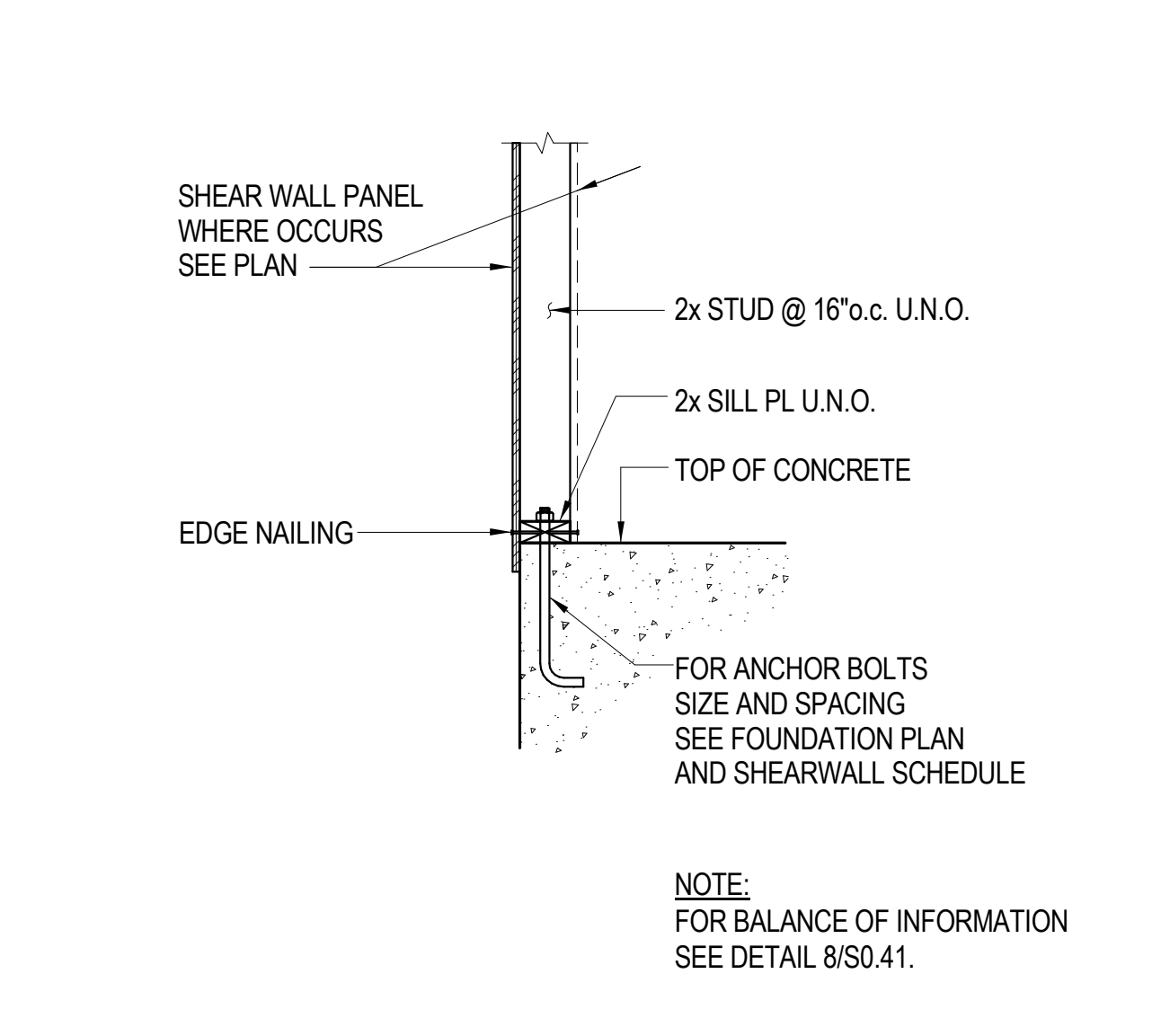
**TYPICAL STUD WALL CONNECTION DETAIL** 10  
TWC304



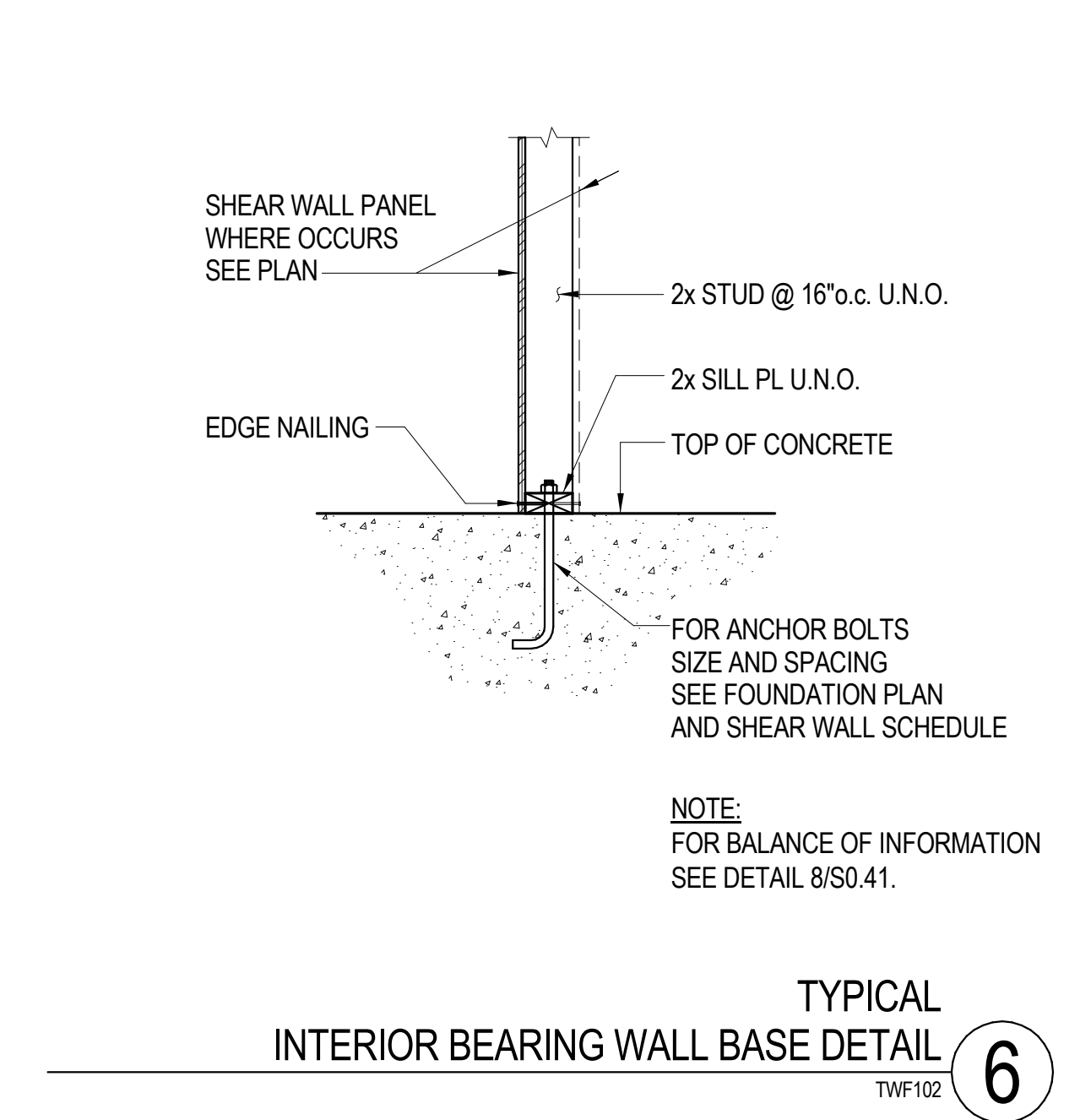
**TYPICAL STUD WALL FRAMING AT OPENING DETAIL** 9  
TWC303



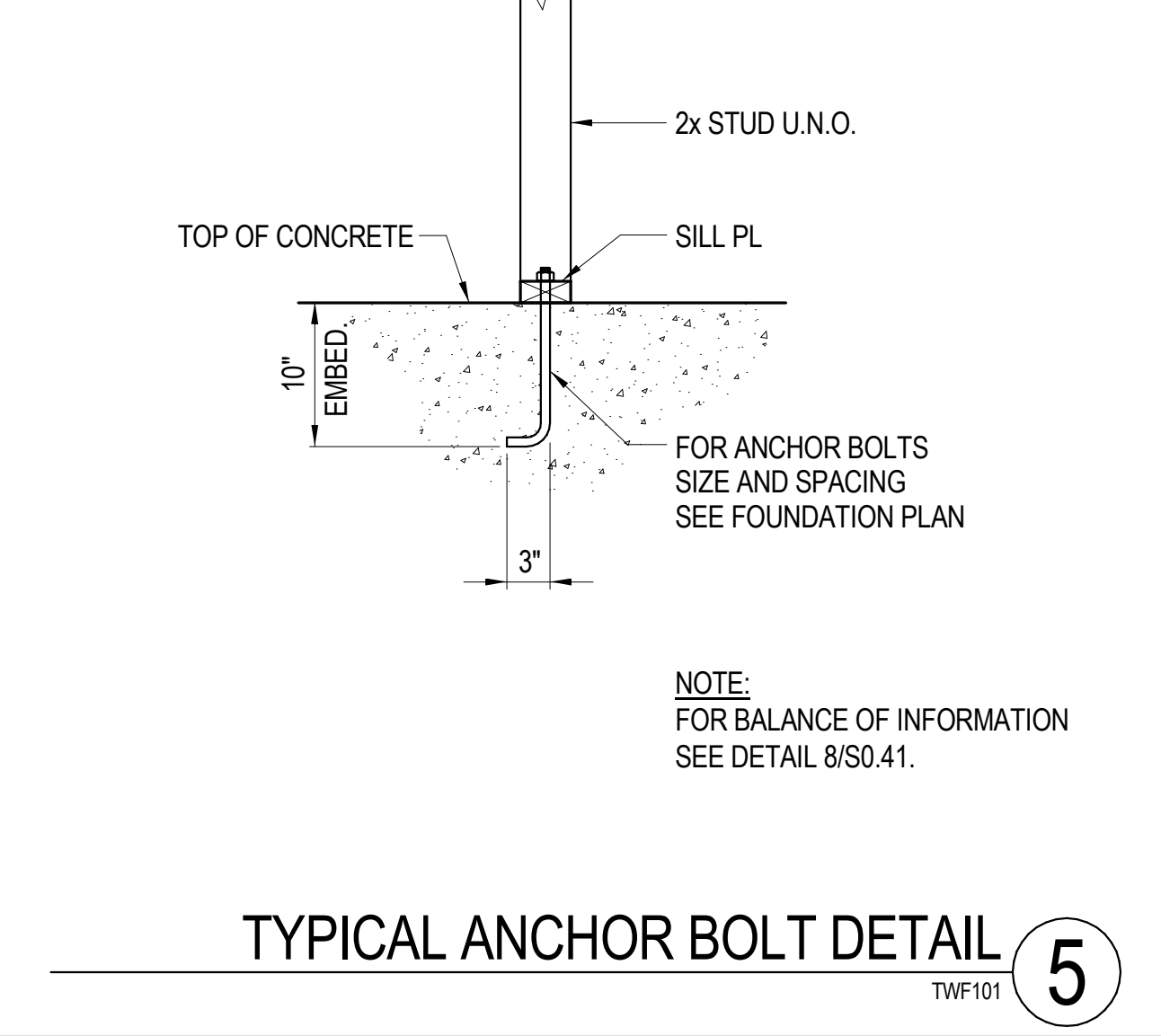
**TYPICAL SILL PLATE AT FOUNDATION DETAIL** 8  
TWF403



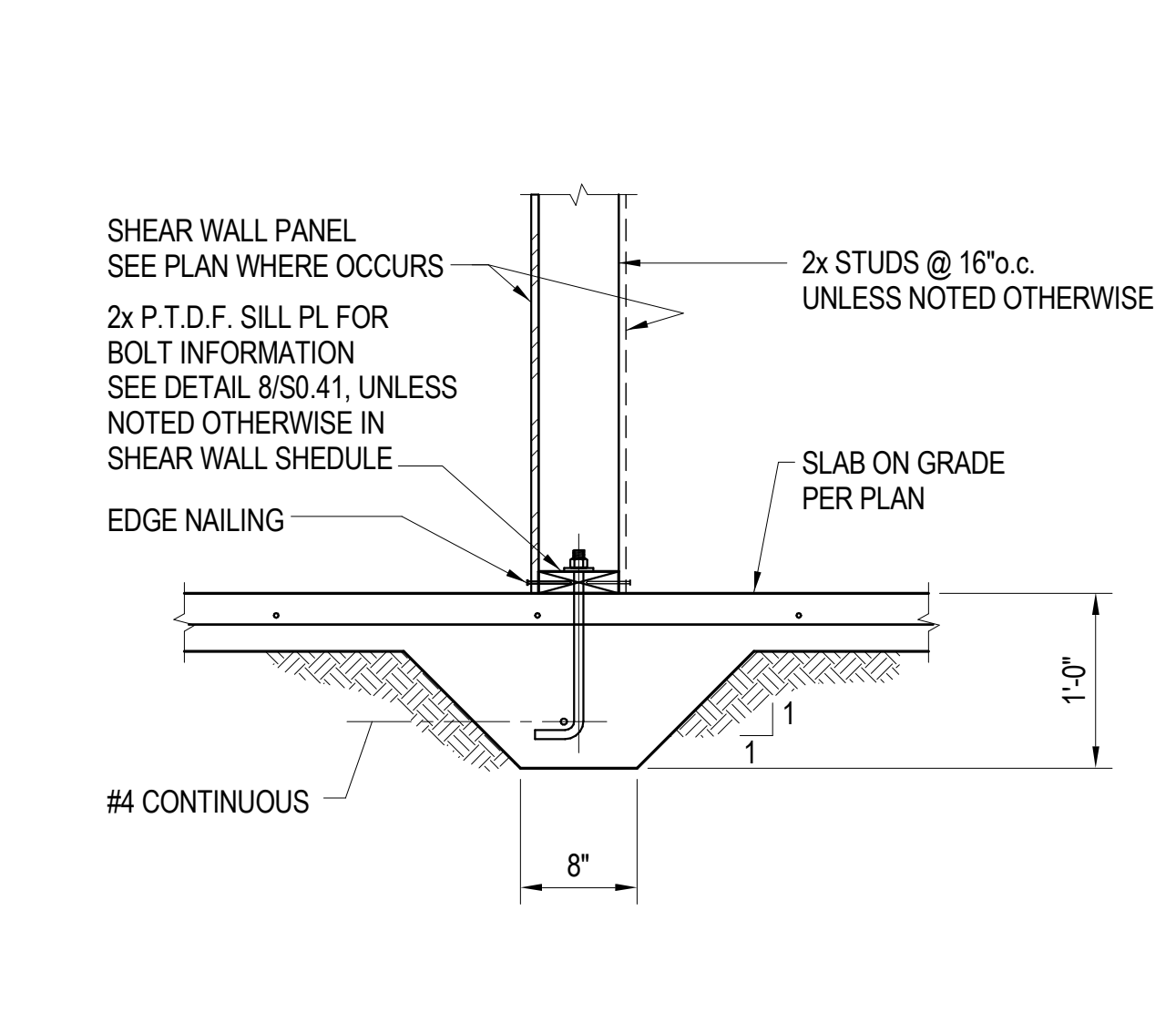
**TYPICAL EXTERIOR BEARING WALL BASE DETAIL** 7  
TWF103



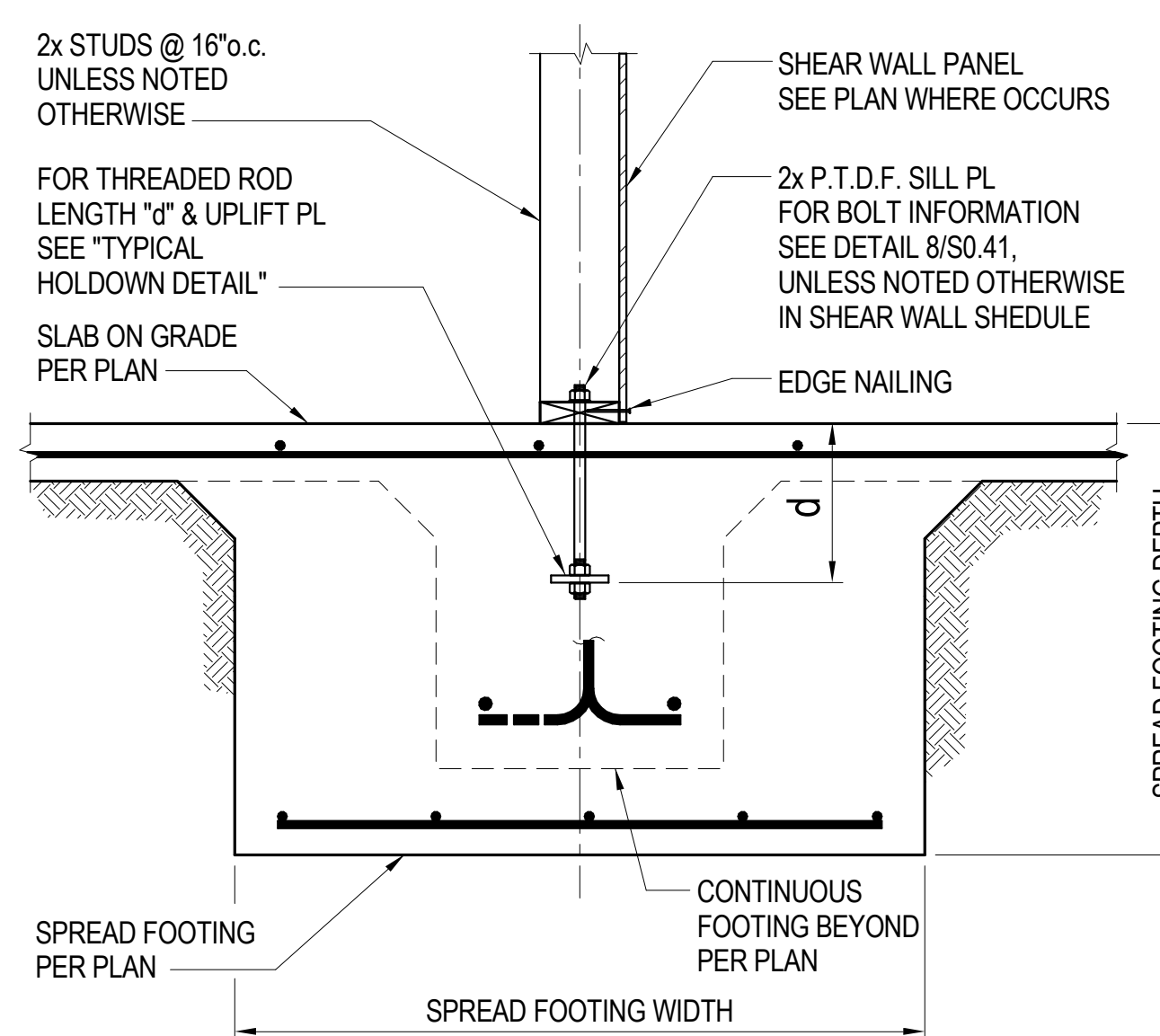
**TYPICAL INTERIOR BEARING WALL BASE DETAIL** 6  
TWF102



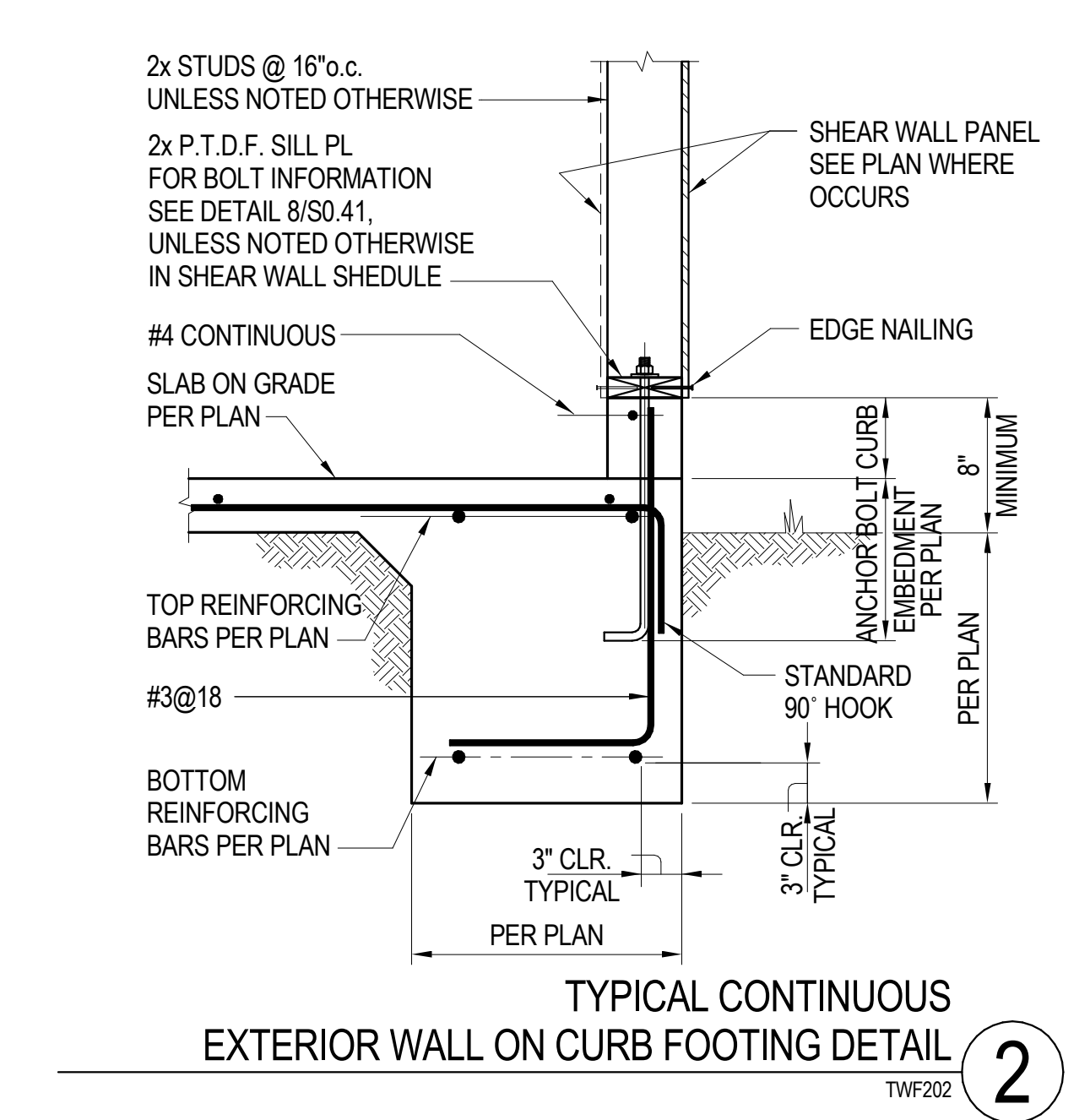
**TYPICAL ANCHOR BOLT DETAIL** 5  
TWF101



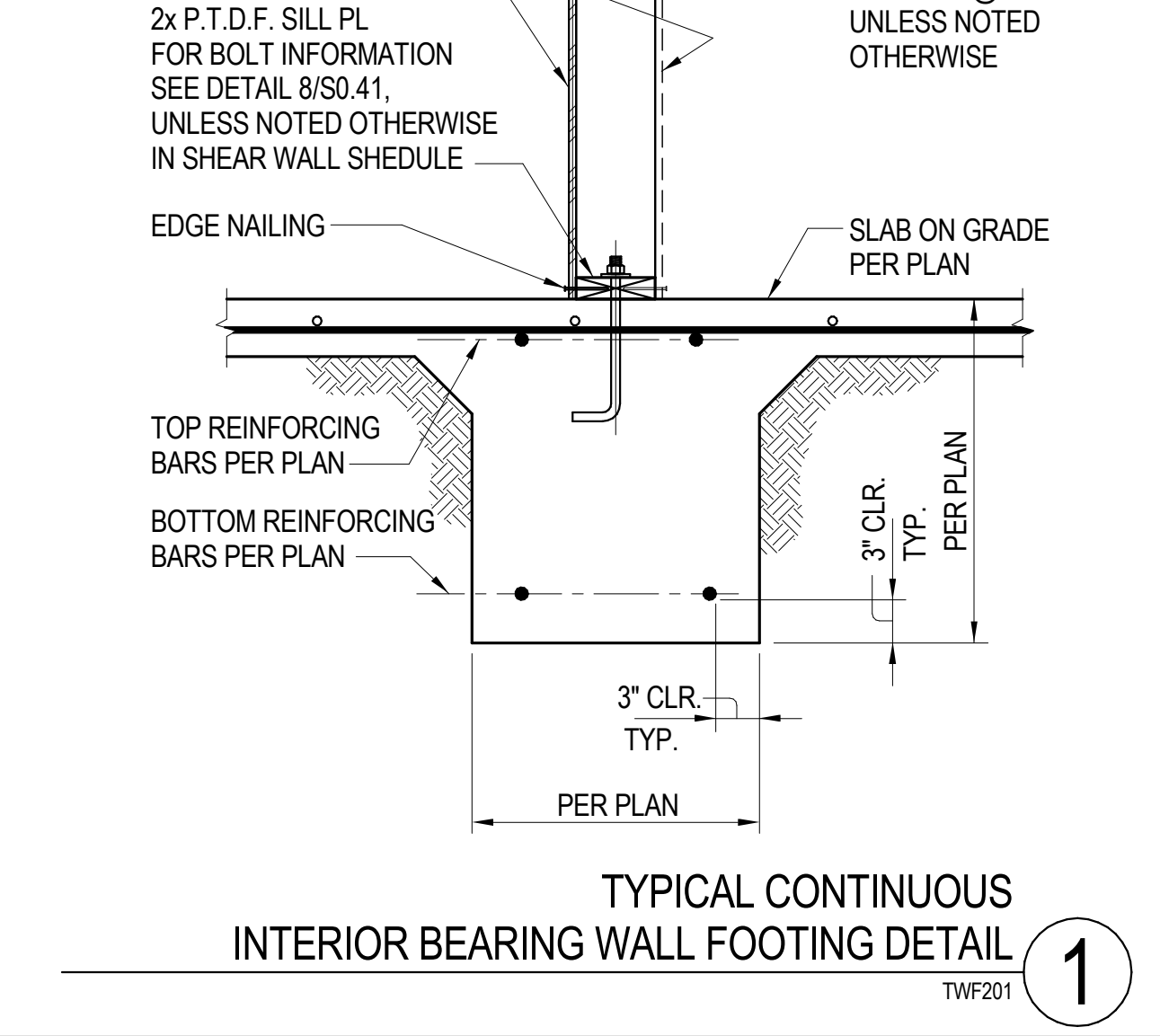
**TYPICAL INTERIOR NON-BEARING WALL FOOTING DETAIL** 4  
TWF301



**TYPICAL INTERIOR BEARING WALL FOOTING DETAIL** 3  
TWF204



**TYPICAL CONTINUOUS EXTERIOR WALL ON CURB FOOTING DETAIL** 2  
TWF202



**TYPICAL CONTINUOUS INTERIOR BEARING WALL FOOTING DETAIL** 1  
TWF201

POST SIZE	SIMPSON COLUMN BASE	REMARKS
4x4	CB44	

HEADER SCHEDULE		
OPENING WIDTH MAX.	MIN. NOMINAL HEADER "D"	
4'-0"	4"	6"
6'-0"	6"	8"
8'-0"	8"	10"
10'-0"	10"	12"
12'-0"	12"	14"

**WILLIAM HEZMALHALCH ARCHITECTS INC.**  
2850 REDHILL AVENUE, SUITE 200, SANTA ANA, CA 92705-5543  
949.250.6007 www.hezarchitects.com fax 949.250.1529  
6111 BOLLINGER CANYON ROAD, SUITE 405, SAN RAMON, CA 94583-9186  
925.463.1700 fax 925.463.1725

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STRUCTURAL ENGINEERS  
3621 Harbor Boulevard  
Suite 125  
Santa Ana, CA  
92704  
714.557.8551 T  
714.557.8551 F  
www.englekirk.com

**SOUTH COAST SPEEDWASH AT THE AUTOBAHN**  
2402 BRISTOL ST. SANTA ANA, CA 92704  
BRISTOL SPEEDWASH, INC.  
10801 NATIONAL BLVD., STE 510 LOS ANGELES, CA. 90064

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**REVISIONS**

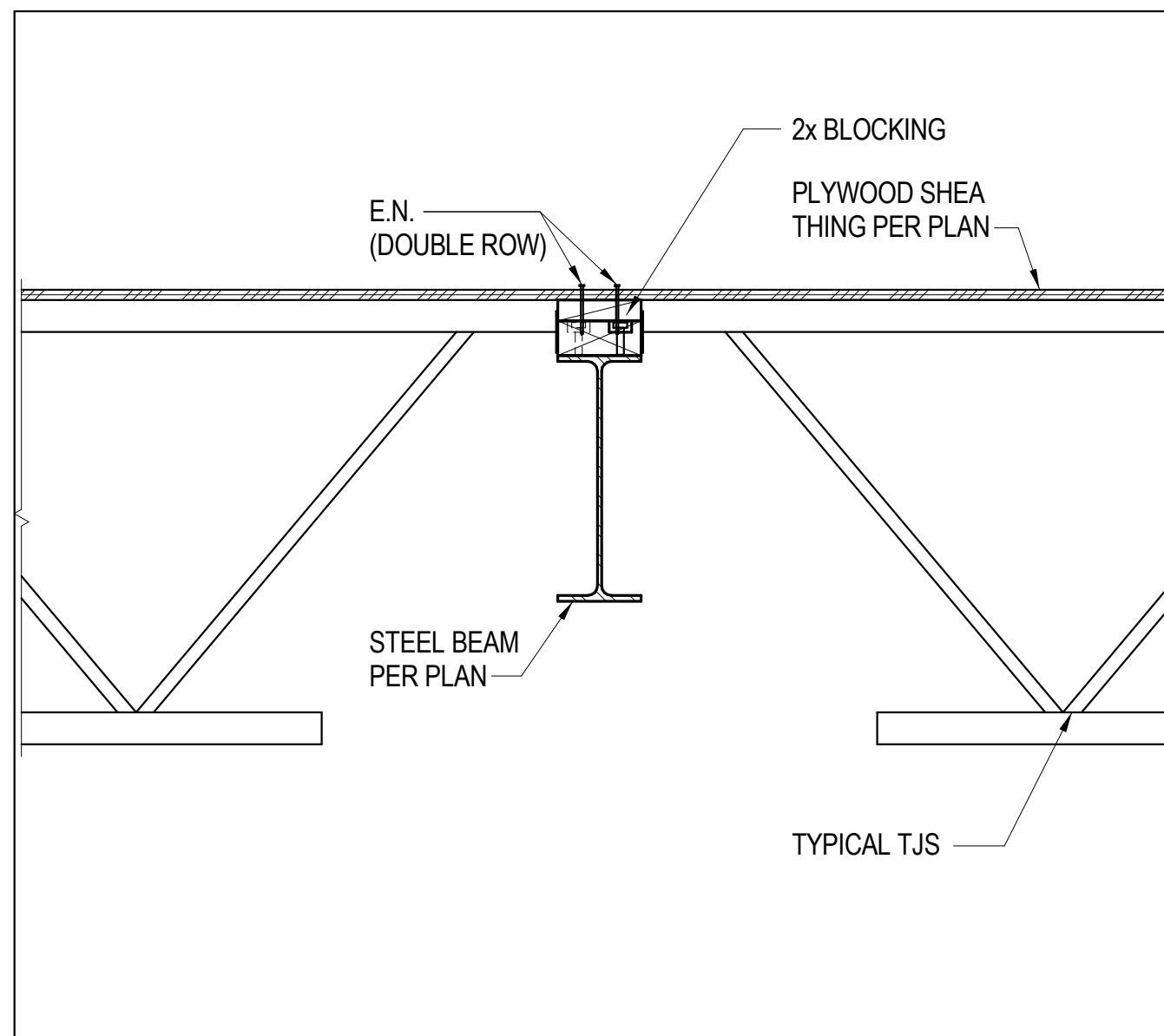
NO.	DATE	DESCRIPTION
07/14/17		3RD PLAN CHECK SUBMITTAL

**TYPICAL WOOD DETAILS**

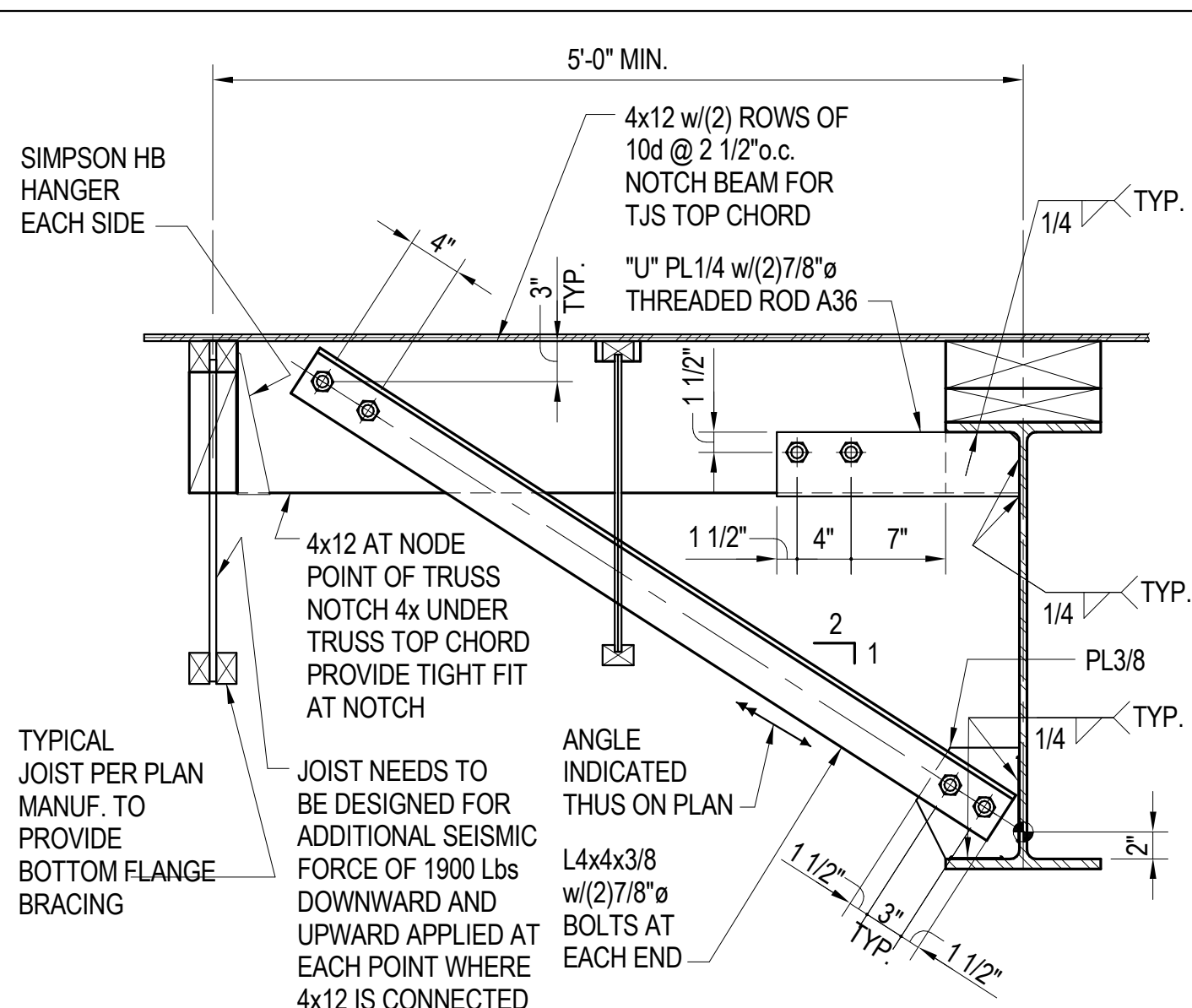
SHEET SCALE: As Indicated  
PROJECT MANAGER: MH  
DESIGNER: JN  
DRAWN BY: FS  
REVIEWED BY:  
1st DEPT. SUBMITTAL: XX/2016  
ISSUED FOR CONST.:  
JOB NUMBER: 16-5003  
CAD FILE NAME:

S0.41

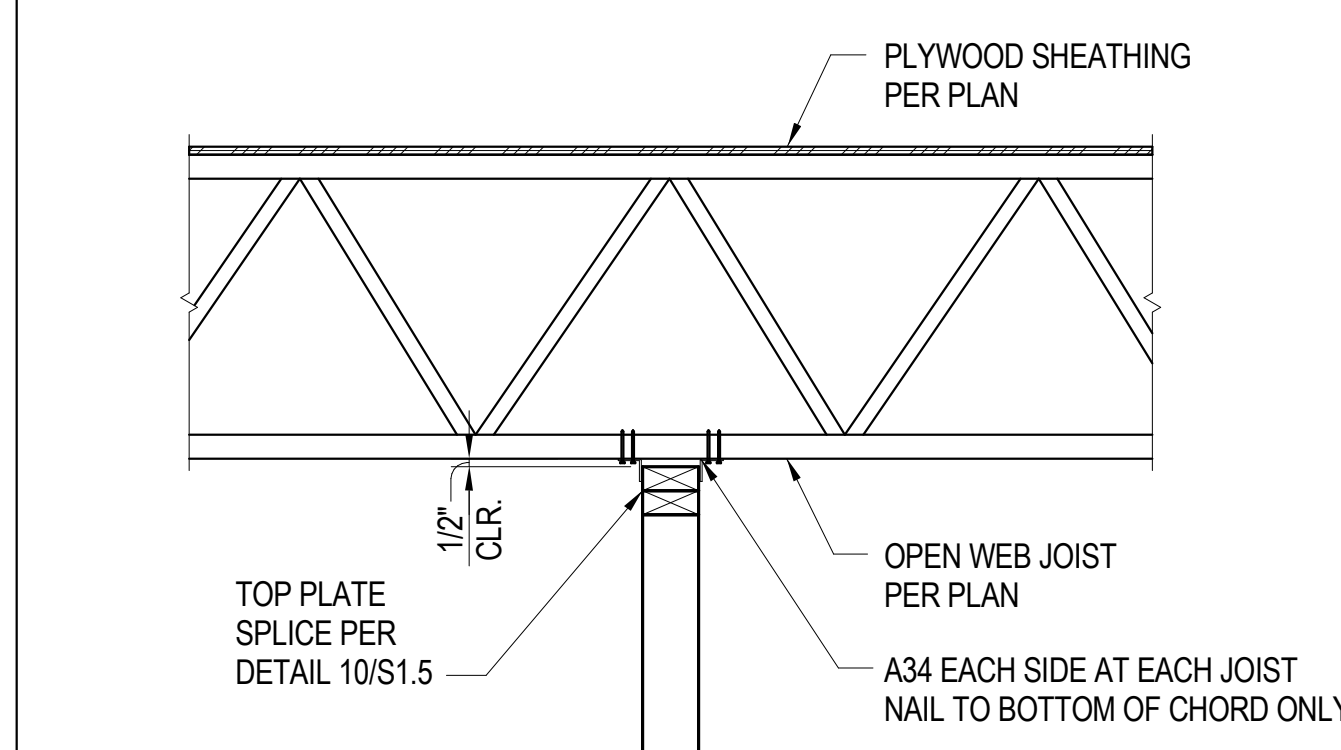
2ND BUILDING PLAN CHECK COORDINATION 05.18.2017



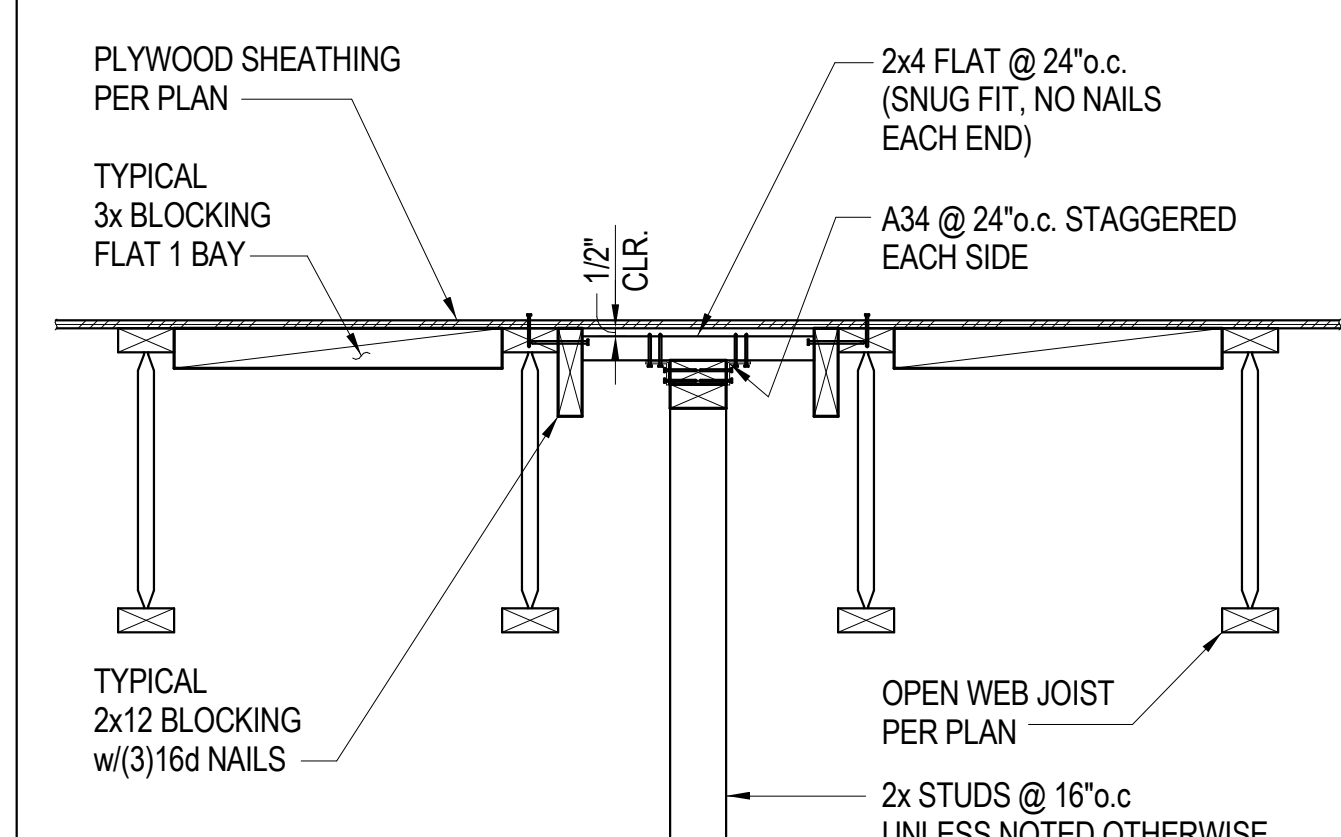
DETAIL 15  
1"=1'-0"



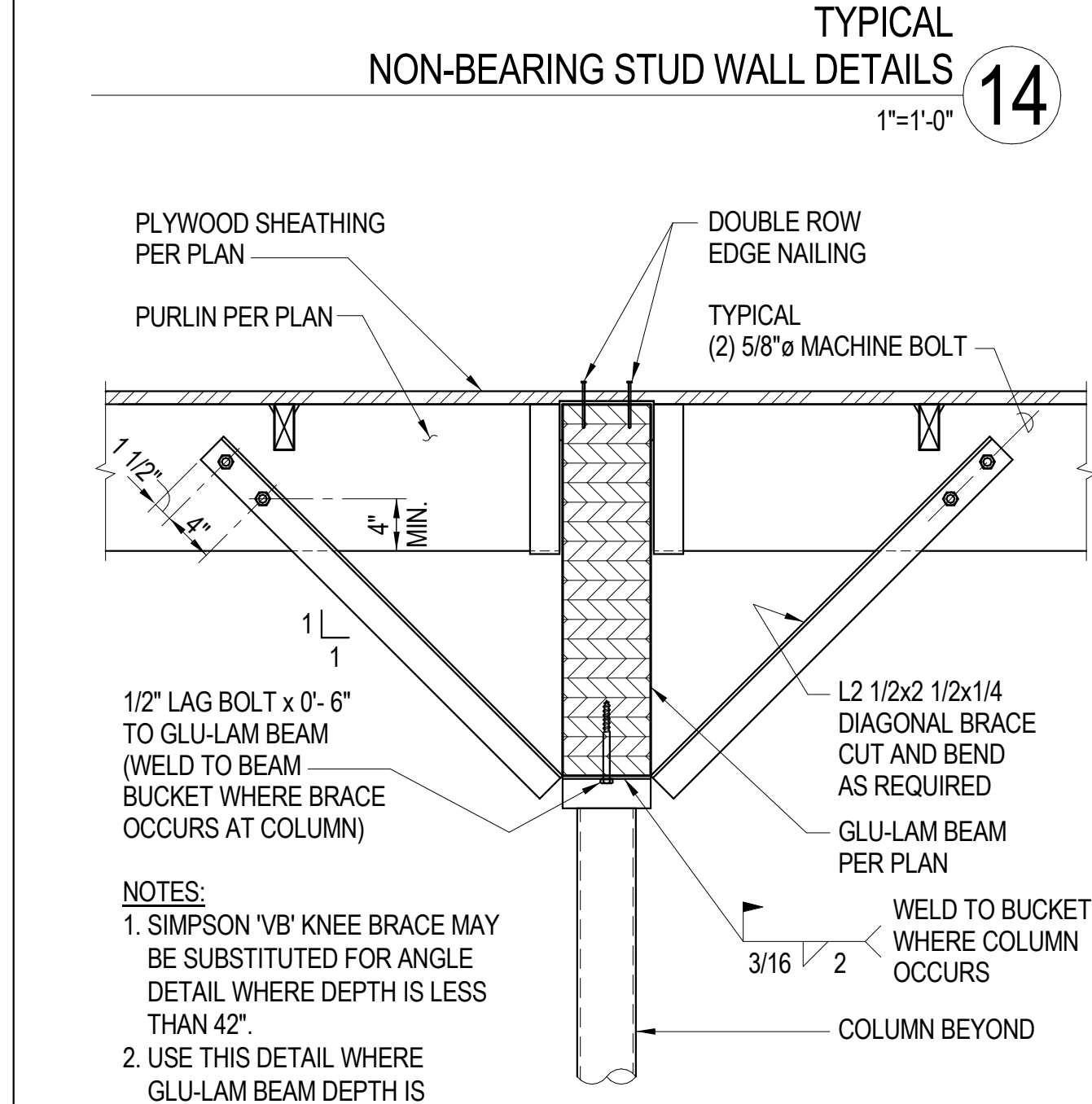
DETAIL 12  
1"=1'-0"



PERPENDICULAR TO JOISTS



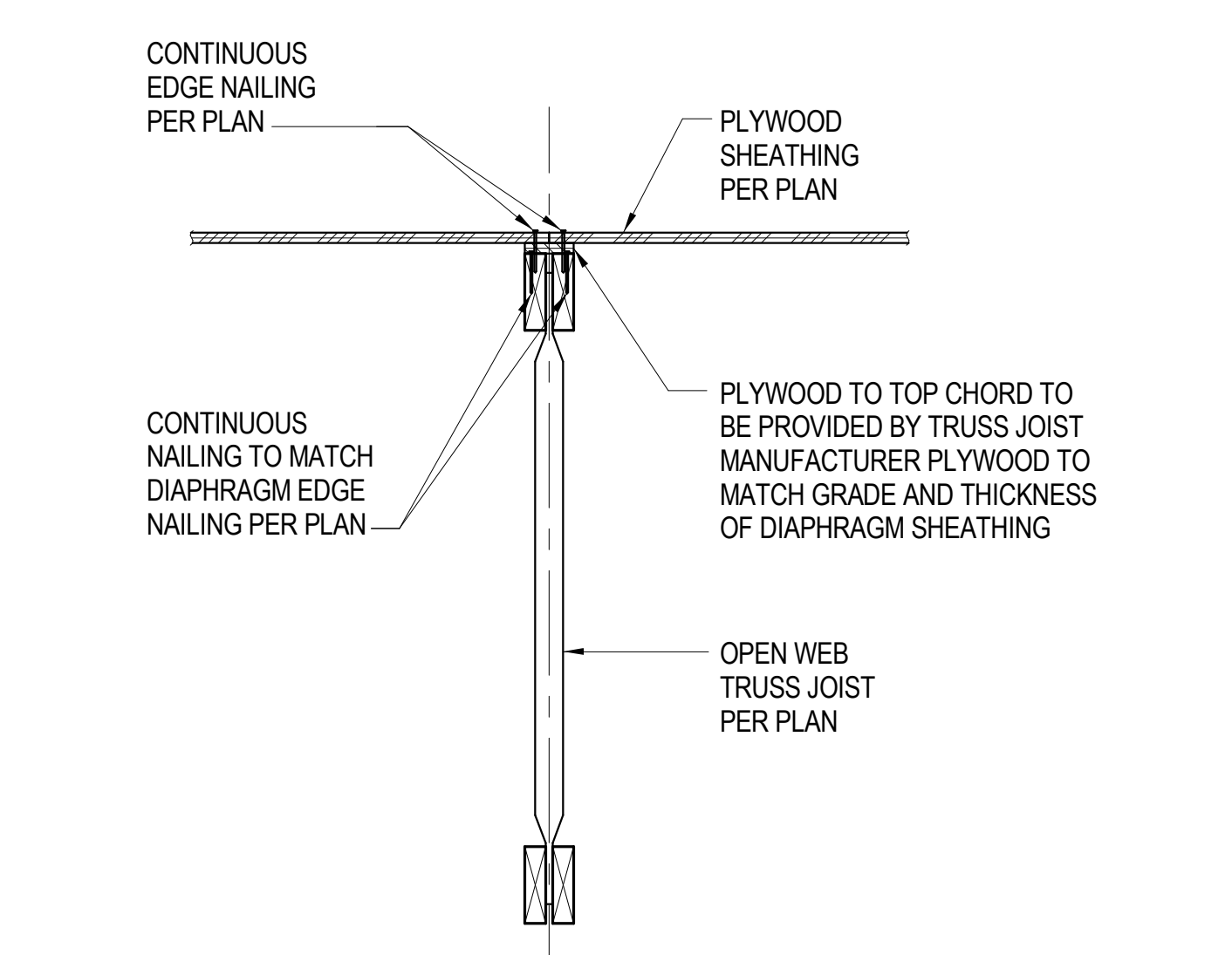
PARALLEL TO JOISTS



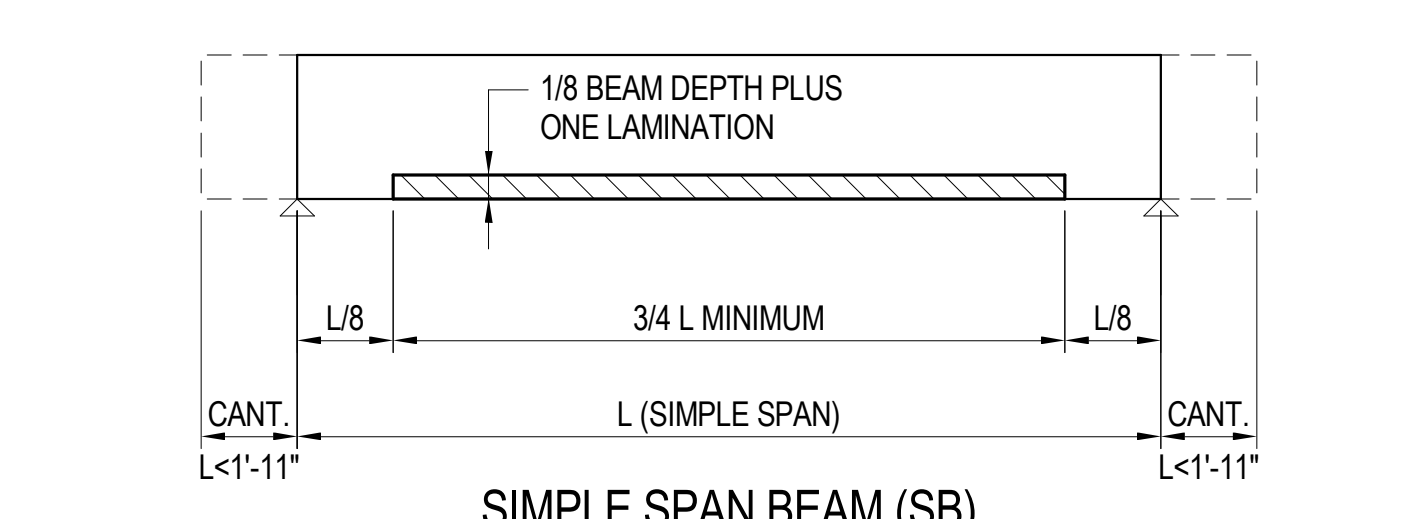
TYPICAL NON-BEARING STUD WALL DETAILS  
1"=1'-0"



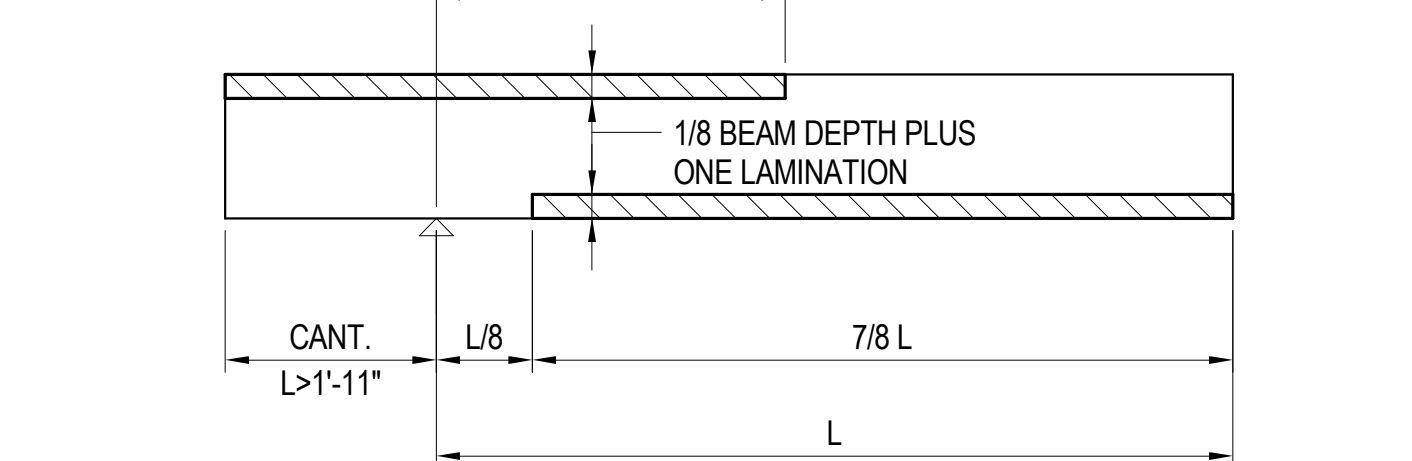
TYPICAL GLU-LAM BEAM BRACE DETAIL  
1"=1'-0"



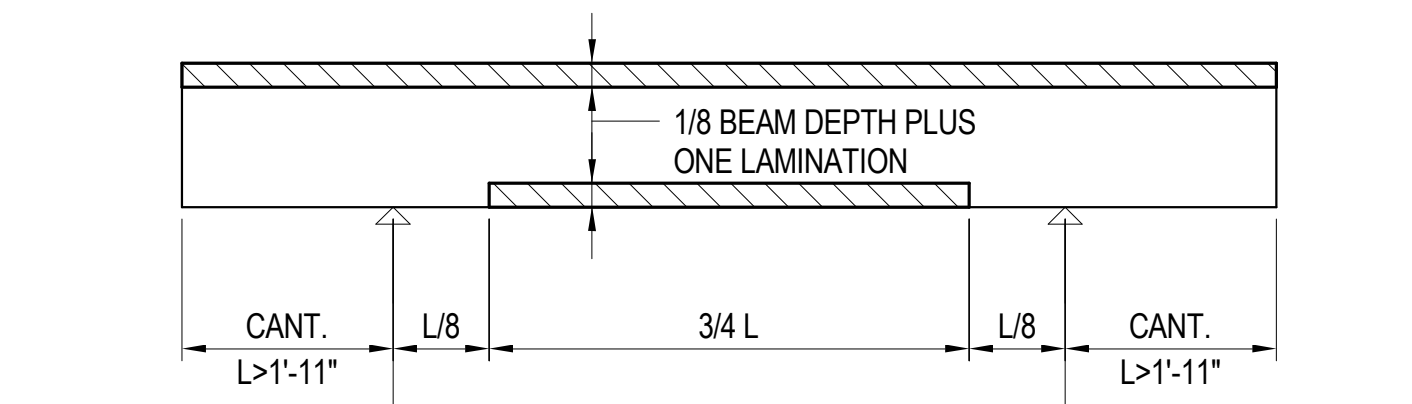
NAILING AT OPEN WEB TRUSS JOIST DETAIL  
1"=1'-0"



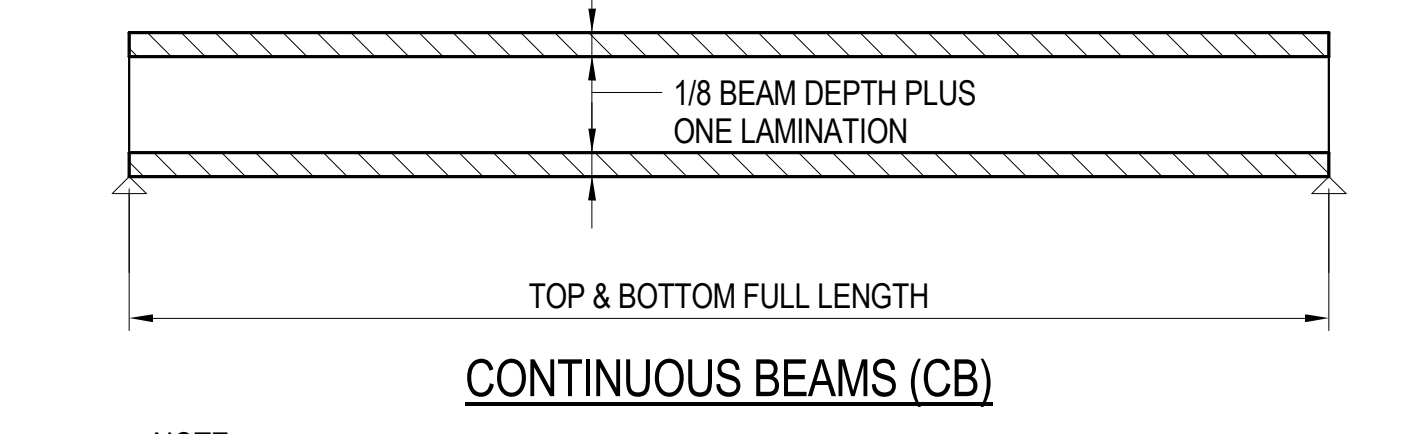
SIMPLE SPAN BEAM (SB)



BEAM WITH ONE END CANTILEVERED (CB)

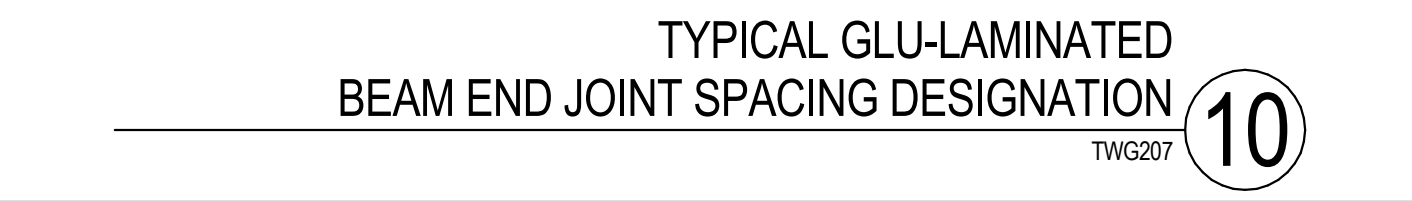


BEAM WITH BOTH END CANTILEVERED (CB)

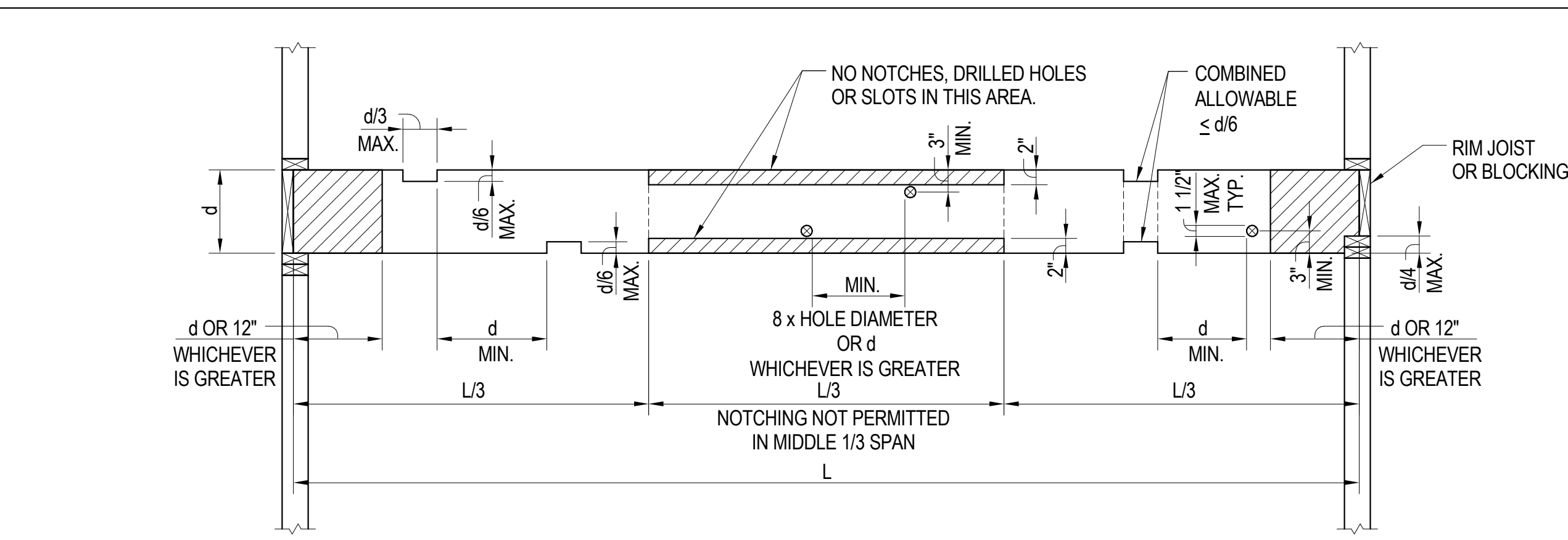


CONTINUOUS BEAMS (CB)

NOTE: CROSS HATCHED AREA = 6" MINIMUM END JOINT SPACING IN ADJACENT LAMINATIONS 1998 CBC STATE CHAPTER 23A, DIVISION III, PART 1, 2316A.2, SECTION 5.4.6 AND ANS/AITC A190.1

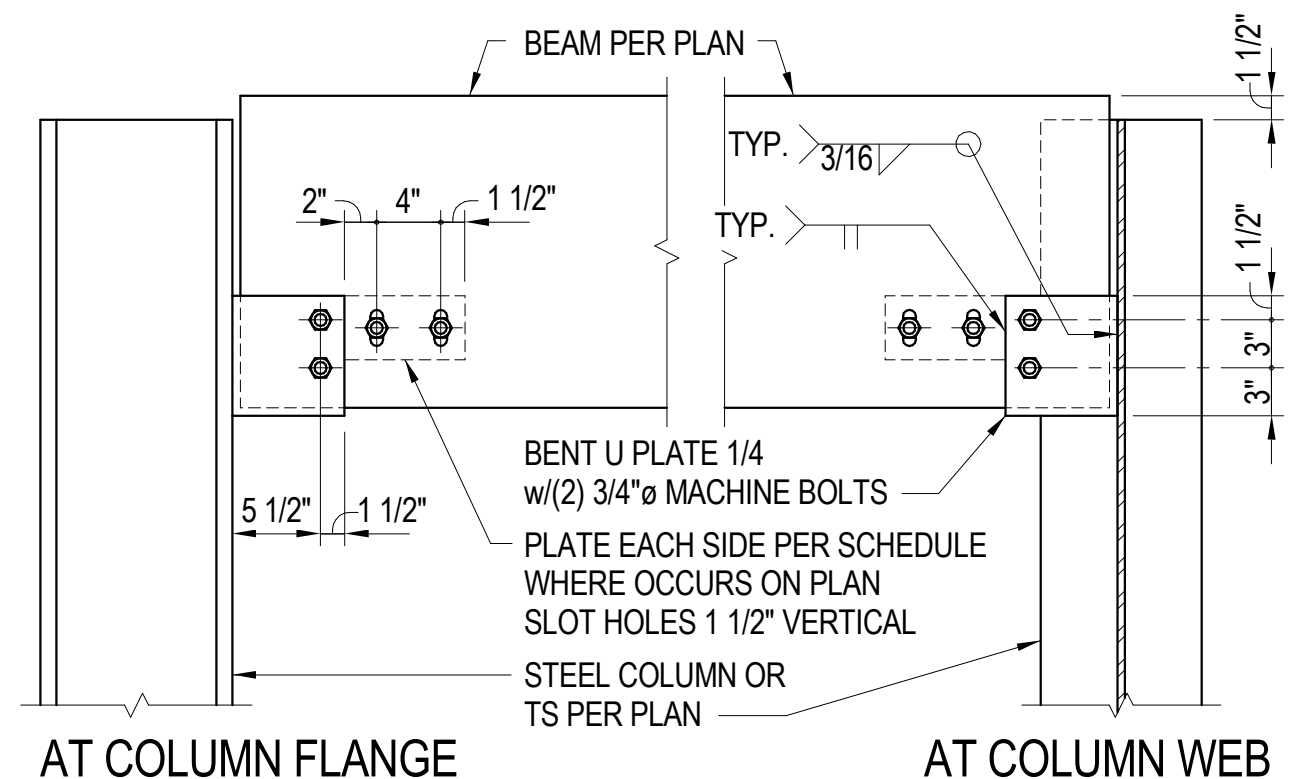


TYPICAL GLU-LAMINATED BEAM END JOINT SPACING DESIGNATION  
1"=1'-0"



NOTES:  
1. ALLOWABLE HOLE AND NOTCH ZONES ARE FOR JOISTS UNDER UNIFORM LOADING ONLY.  
2. LARGER HOLES OR HOLES OUTSIDE THE PERMITTED REGIONS MUST BE REVIEWED AND APPROVED BY THE STRUCTURAL ENGINEER.  
3. NO HOLES OR NOTCHES ARE PERMITTED IN CANTILEVERS.  
4. HATCHED AREA INDICATES NO HOLES OR NOTCHES ALLOWED IN THIS AREA.  
5. DO NOT NOTCH OR BORE INTO 2x4 JOIST.

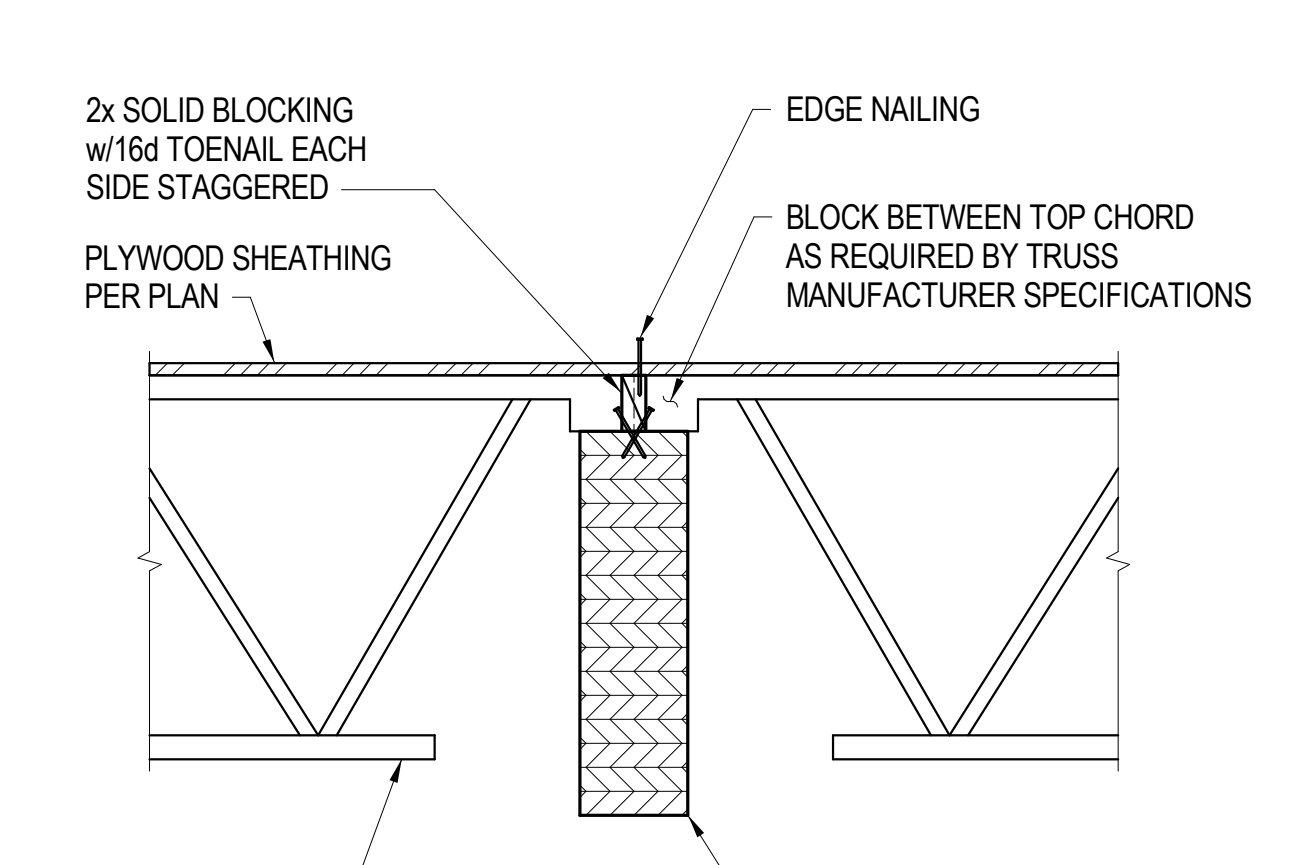
TYPICAL NOTCHING AND BORING AT SAWN LUMBER JOIST DETAIL  
1"=1'-0"



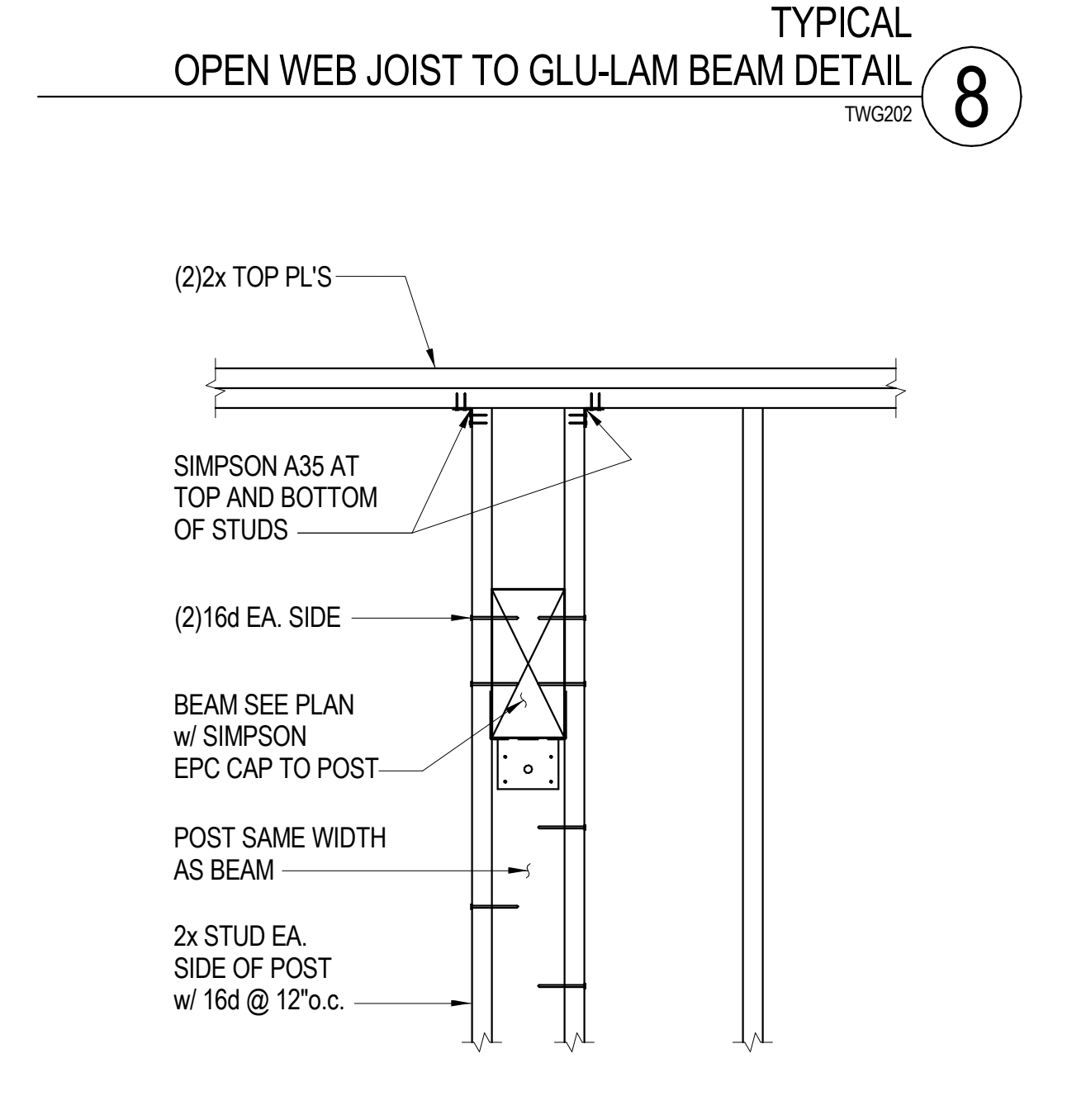
SCHEDULE

MARK	PLATE	BOLTS
A	1/4" THICK x 4" WIDE	(2) 3/4"Ø MACHINE BOLT
B		
C		

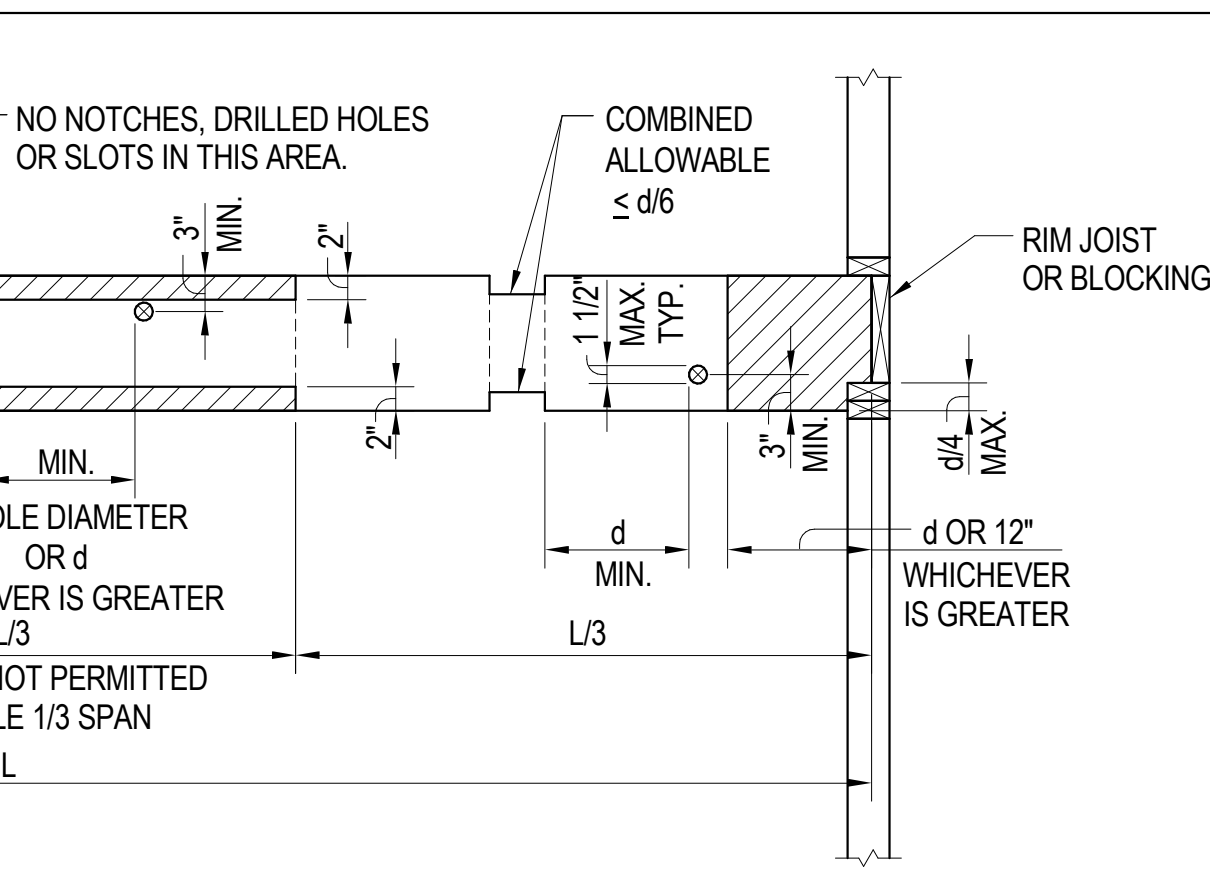
BEAM TO STEEL COLUMN CONNECTION DETAIL  
1"=1'-0"



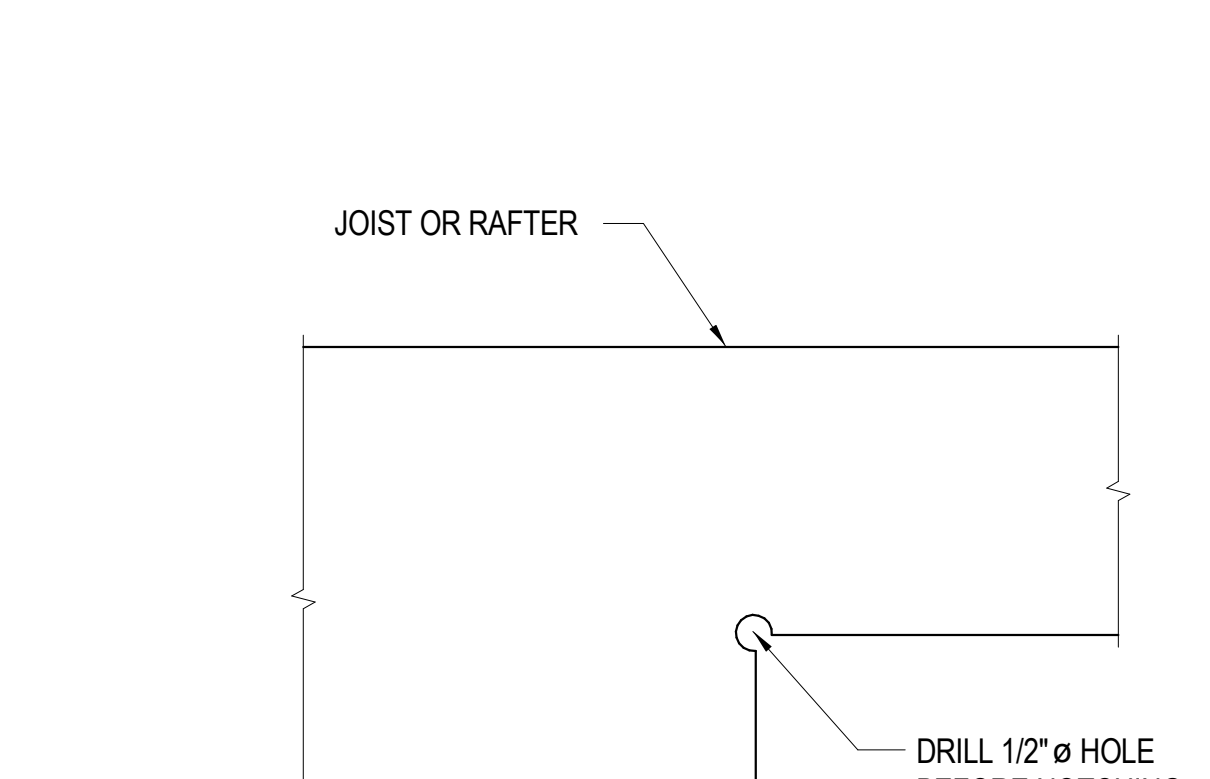
TYPICAL OPEN WEB JOIST TO GLU-LAM BEAM DETAIL  
1"=1'-0"



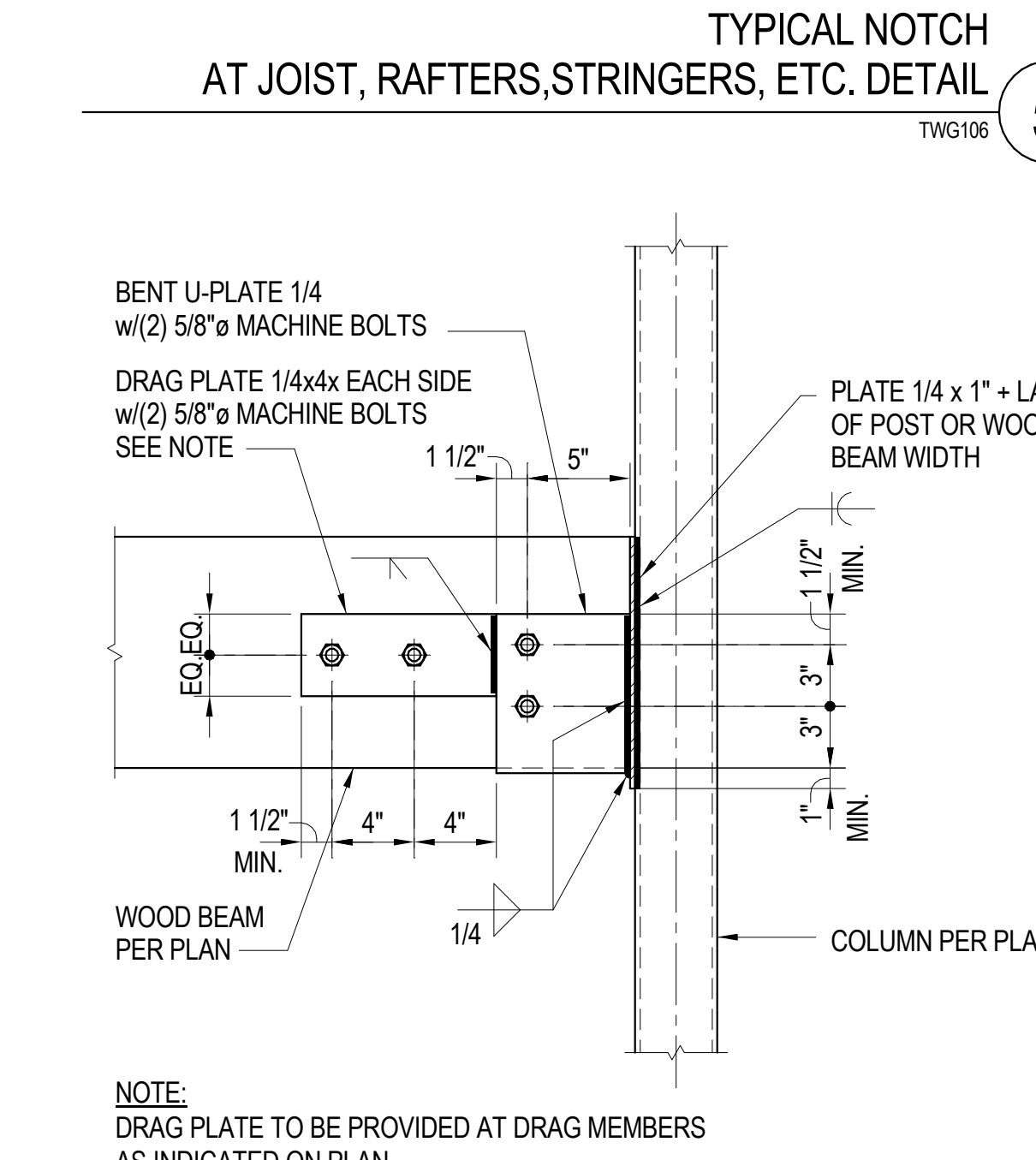
TYPICAL BEAM PERPENDICULAR TO WALL DETAIL  
1"=1'-0"



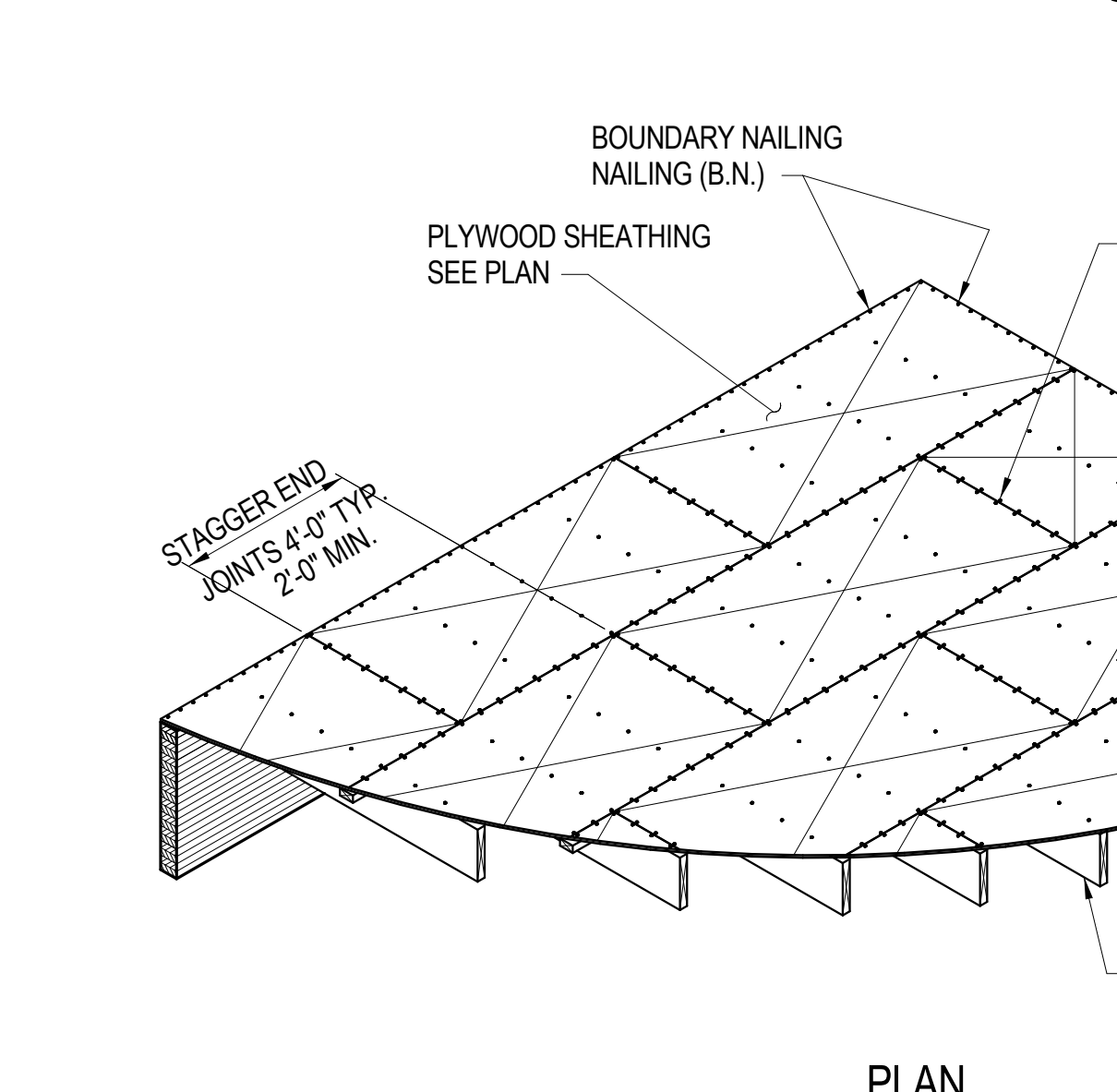
TYPICAL NOTCH  
1"=1'-0"



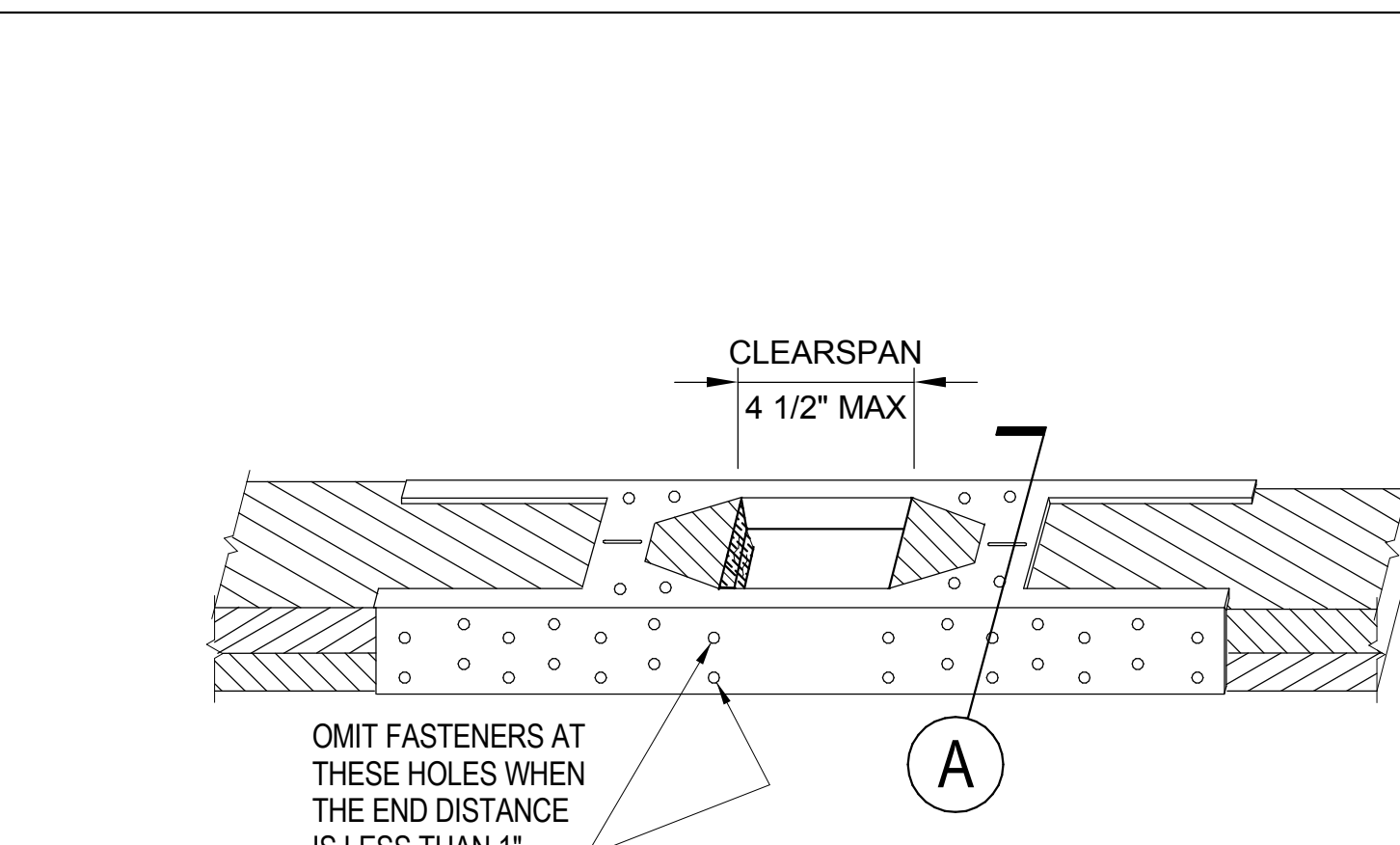
WOOD BEAM TO STEEL TUBE POST DETAIL  
1"=1'-0"



TYPICAL PLYWOOD NAILING DIAGRAM AT NAILS < 3"Ø.c.  
1"=1'-0"



TYPICAL FLOOR PLYWOOD SHEATHING DETAIL  
1"=1'-0"



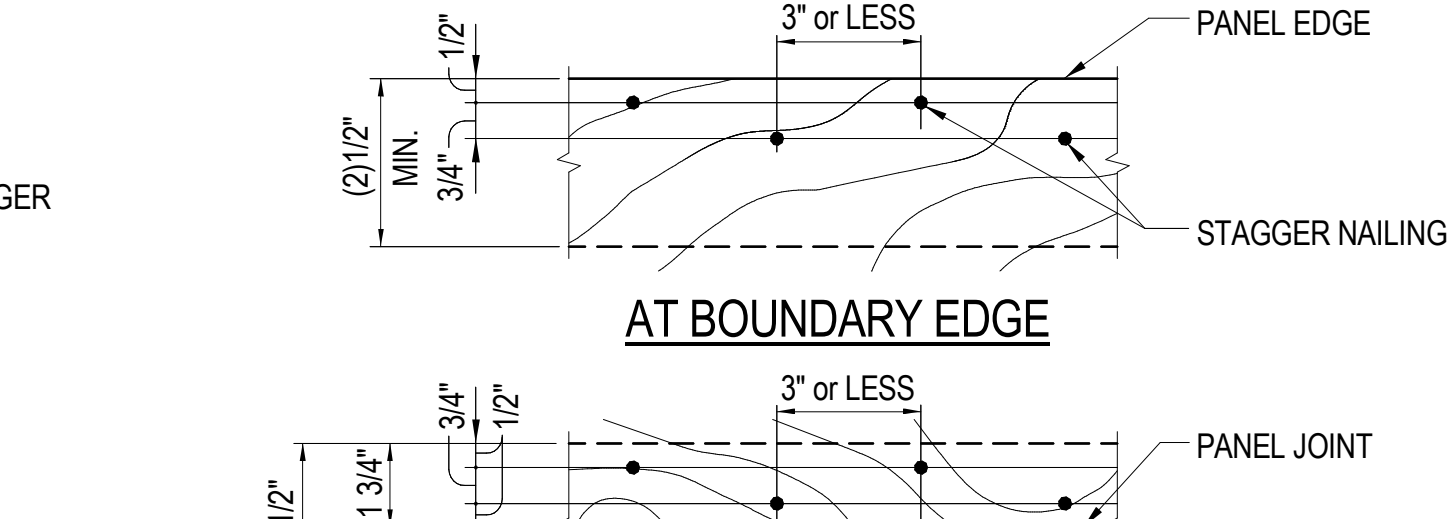
SECTION A: HFS INSTALLED OVER DOUBLE TOP PLATES  
1"=1'-0"

Table 8.1 : Hardy Frame ® Saddle

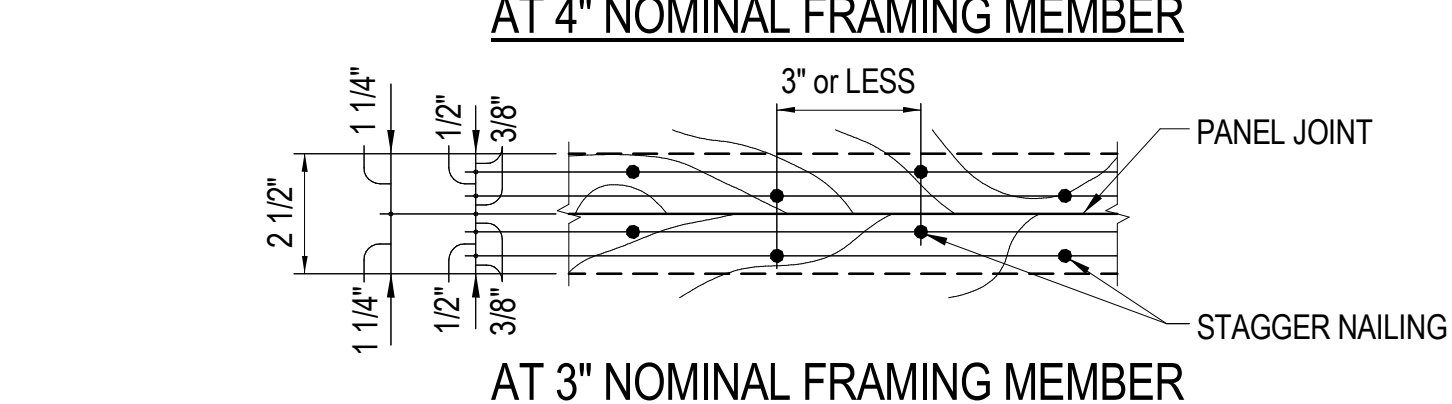
Model Number	Fasteners (Total)	Allowable Tension (lbs)			Allowable Compression (lbs)		
		(100)	(133)	(160)	(100)	(133)	(160)
HFS24	(24)16d common	2948	3921	4717	1969	2618	2733
HFS36	(32)16d common	4288	5703	5785	1969	2618	2733

NOTES:  
1. MAXIMUM CLEARSPAN SPLICE IS 4' 1/2"  
2. FASTENER QUANTITY IS THE NUMBER OF 16D COMMON NAILS TO BE INSTALLED AT EACH END OF THE SPLICE.  
3. WHEN THE DISTANCE FROM THE SPLICE TO THE FIRST NAIL HOLE IS LESS THAN 1 INCH, OMIT THE (2) NAILS IN THE 3 INCH SIDEPLATE AND THE (1) NAIL IN THE 1 1/2 INCH SIDEPLATE CLOSEST TO THE SPLICE.  
4. FOR THE HFS24 THAT IS INSTALLED WITH (22) 16D COMMON NAILS ON EACH END OF THE SPLICE (44 TOTAL) THERE IS NO REDUCTION IN THE VALUES.  
5. FOR THE HFS36 THAT IS INSTALLED WITH (31) 16D COMMON NAILS ON EACH END OF THE SPLICE (62 TOTAL) THERE IS NO REDUCTION IN THE VALUES.  
6. THE 133 COLUMN MAY BE USED FOR WIND AND EARTHQUAKE LOADING.  
7. THE 160 COLUMN MAY BE USED FOR WIND ONLY.  
8. THE PRODUCT AND INSTALLATION SHALL COMPLY WITH LA RR #25759  
9. PROVIDE HARDY SADDLE WHERE PLUMBING RISERS PENETRATE BEARING OR SHEAR WALL PLATES

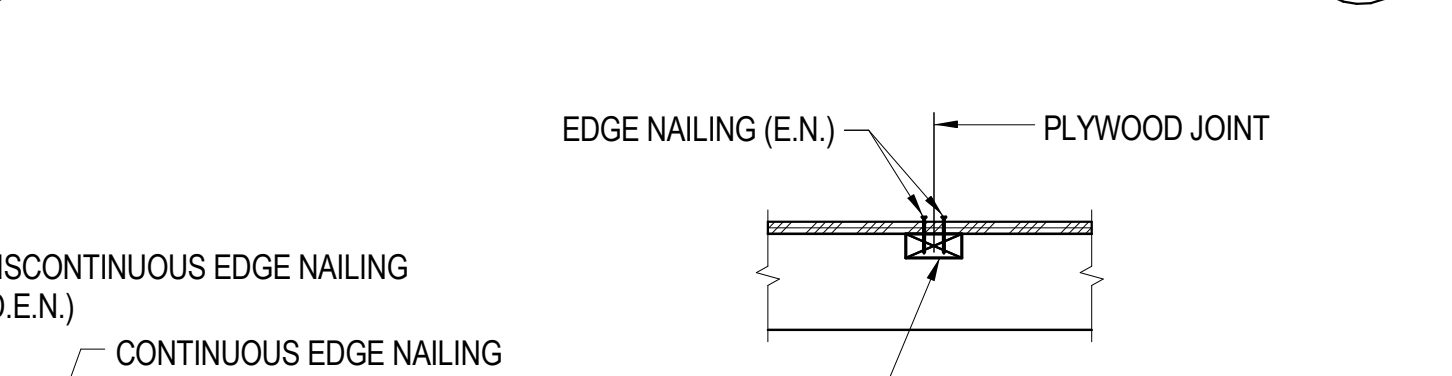
TYPICAL HARDY SADDLE DETAIL  
1"=1'-0"



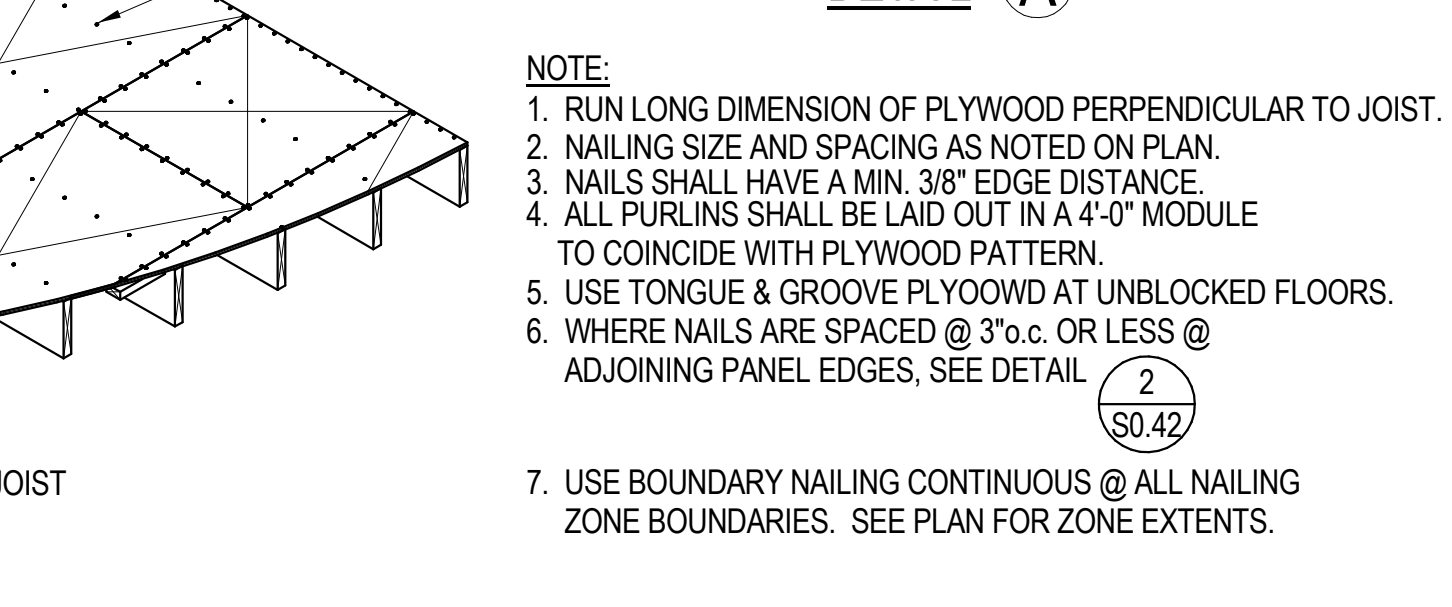
AT BOUNDARY EDGE



AT 4" NOMINAL FRAMING MEMBER



AT 3" NOMINAL FRAMING MEMBER



TYPICAL WOOD DETAILS  
1"=1'-0"

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2850 REDHILL AVENUE, SUITE 200, SANTA ANA, CA 92705-5943  
949 250 0037 www.hezmalhalch.com fax 949 250 1529  
6111 BOLLINGER CANYON ROAD, SUITE 405 SAN RAMON, CA 94583-9186  
925 463 1700 fax 925 463 1725



Englekirk  
STRUCTURAL ENGINEERS  
3621 Harbor Boulevard  
Suite 125  
Santa Ana, CA 92704  
714.557.8551  
www.englekirk.com 714.557.8551 F

SOUTH COAST SPEEDWASH AT THE AUTOBAHN  
2402 BRISTOL ST. SANTA ANA, CA 92704  
BRISTOL SPEEDWASH, INC.  
10801 NATIONAL BLVD., STE 510 LOS ANGELES, CA. 90064

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REVISIONS

NO.	DATE	DESCRIPTION
	07/14/17	3RD PLAN CHECK SUBMITTAL

TYPICAL WOOD DETAILS

SHEET SCALE:	As Indicated
PROJECT MANAGER:	MH
DESIGNER:	JN
DRAWN BY:	FS
REVIEWED BY:	
1st DEPT. SUBMITTAL:	XX/2016
ISSUED FOR CONST.:	
JOB NUMBER:	16-5003
CAD FILE NAME:	

S0.42

2ND BUILDING PLAN CHECK COORDINATION 05.18.2017



**Englekirk**  
STRUCTURAL ENGINEERS  
3621 Harbor Boulevard  
Suite 125  
Santa Ana, CA 92704  
714.557.8551  
www.englekirk.com

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DO NOT SCALE PLANS

**REVISIONS**

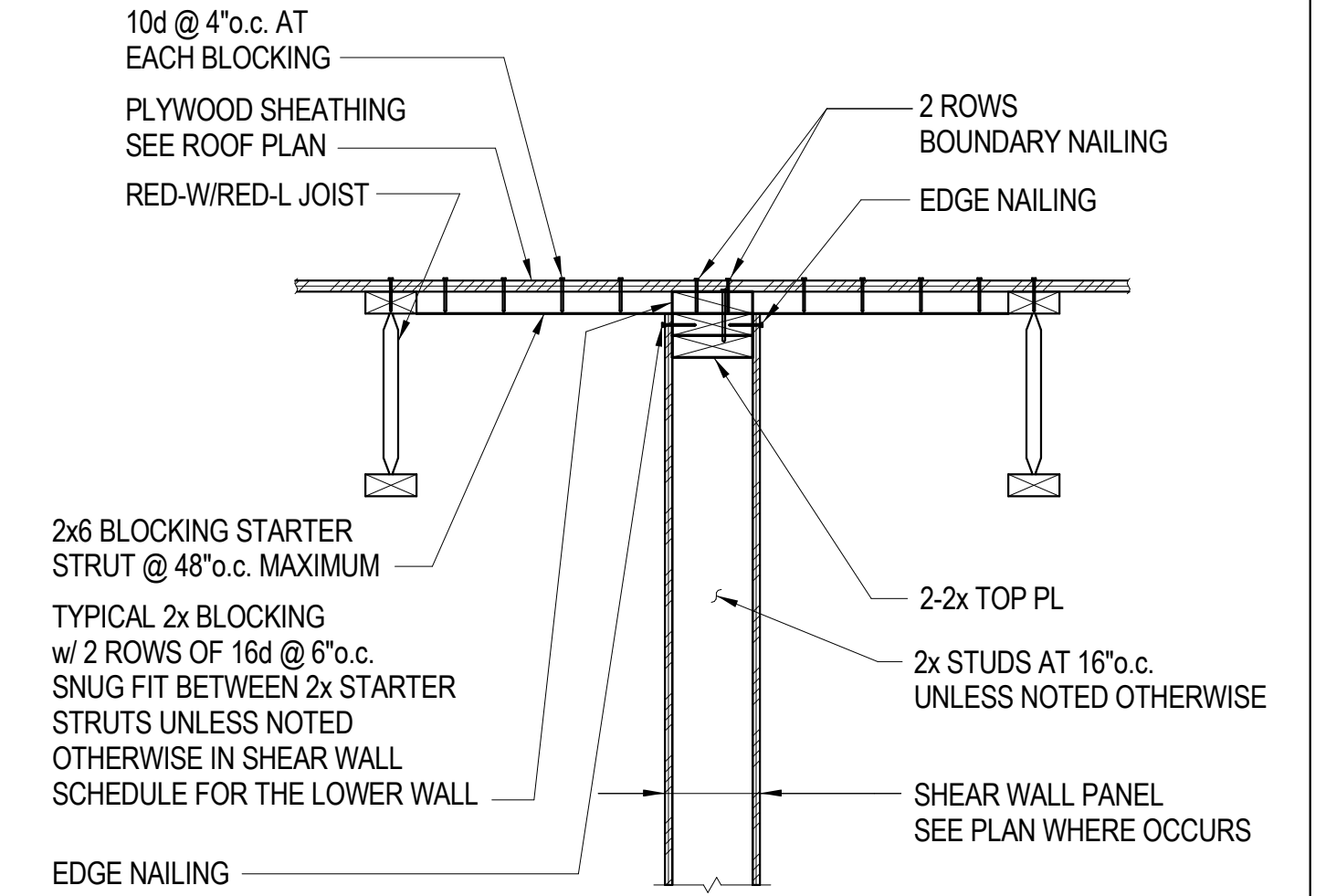
NO.	DATE	DESCRIPTION
	07/14/17	3RD PLAN CHECK SUBMITTAL

**TYPICAL WOOD DETAILS**

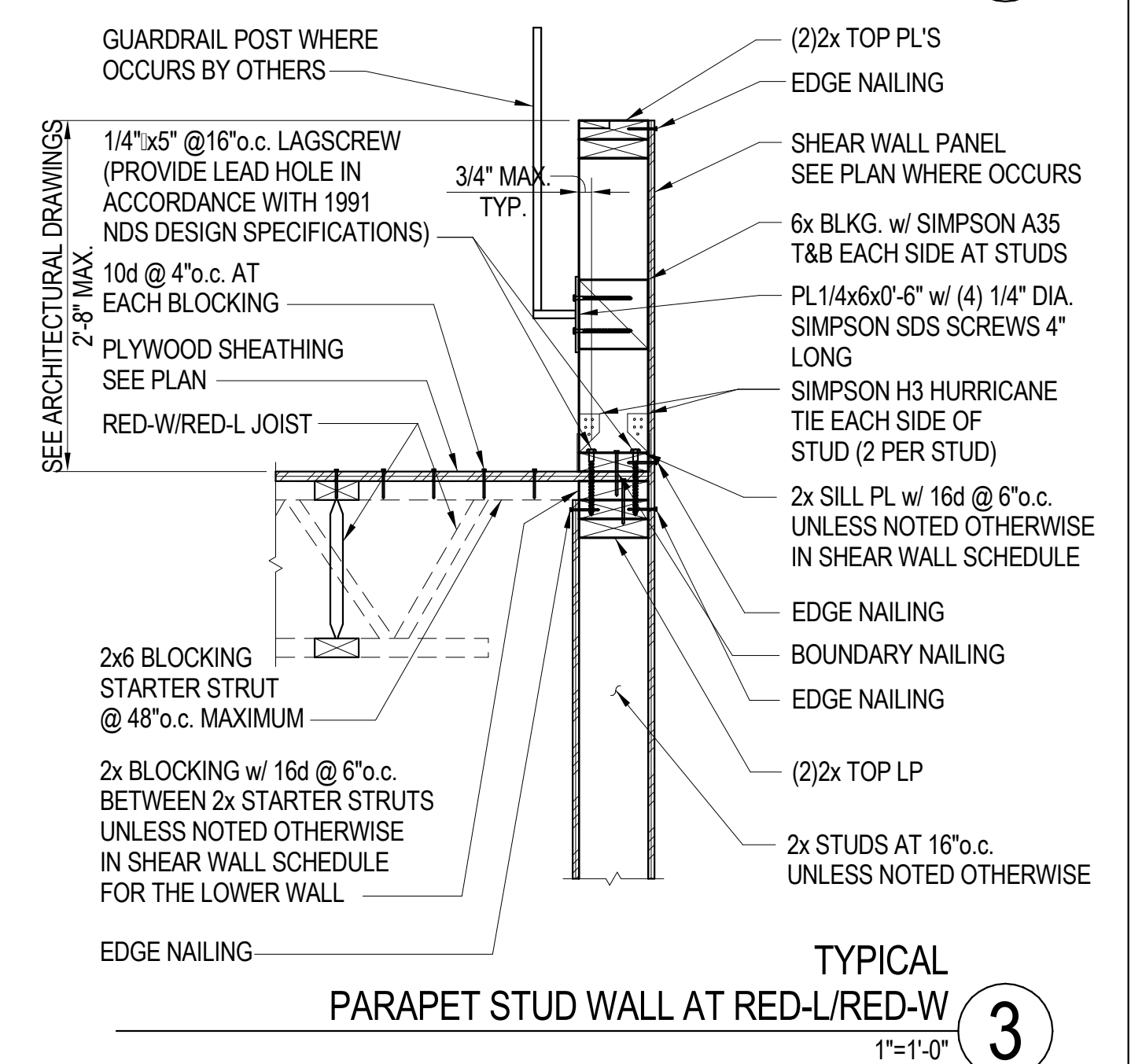
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PROJECT MANAGER	MH
DESIGNER	JN
DRAWN BY	FS
REVIEWED BY	
1st DEPT. SUBMITTAL	XX/2016
ISSUED FOR CONST.	
JOB NUMBER	16-5003
CAD FILE NAME	

S0.43

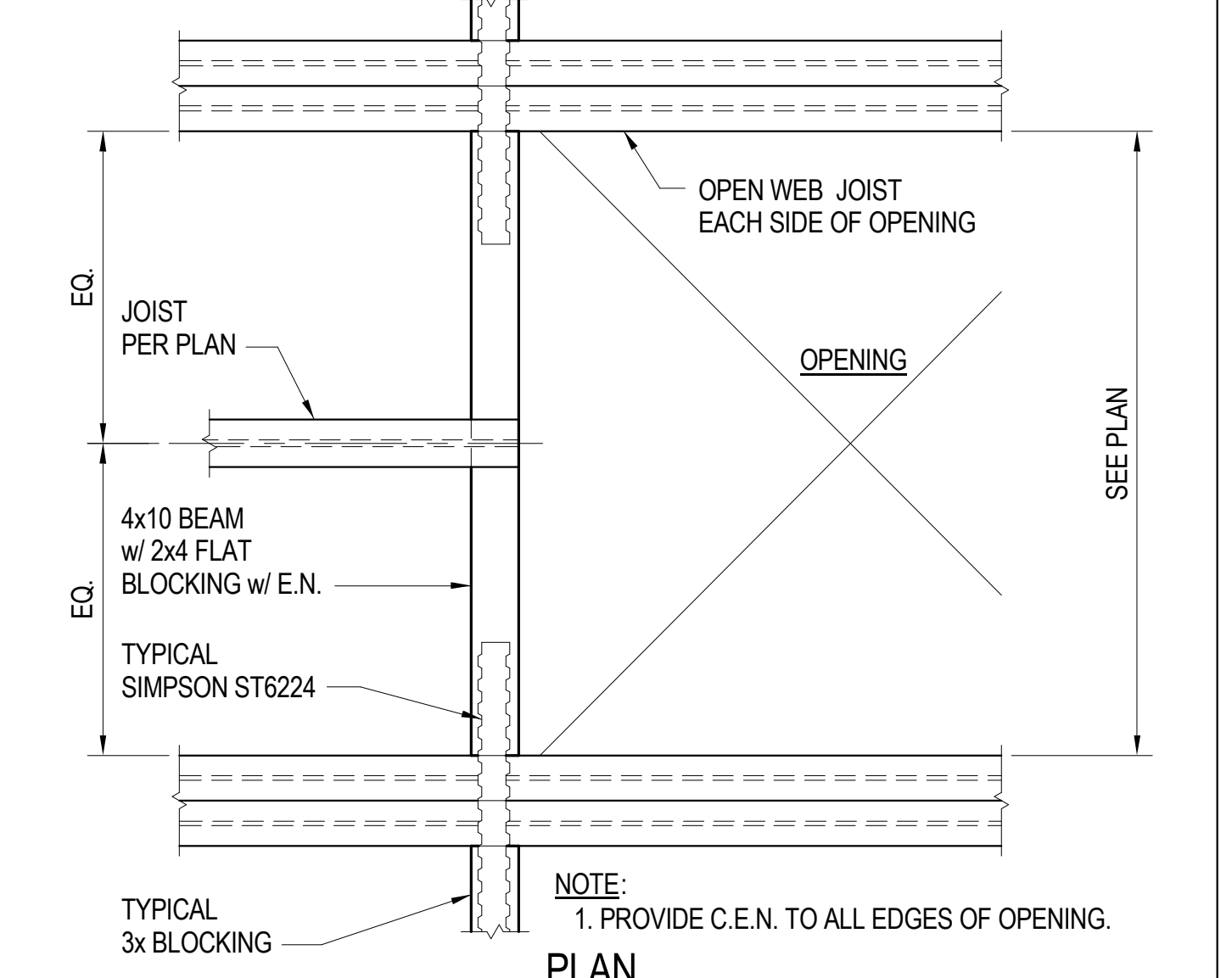
2ND BUILDING PLAN CHECK COORDINATION 05.18.2017



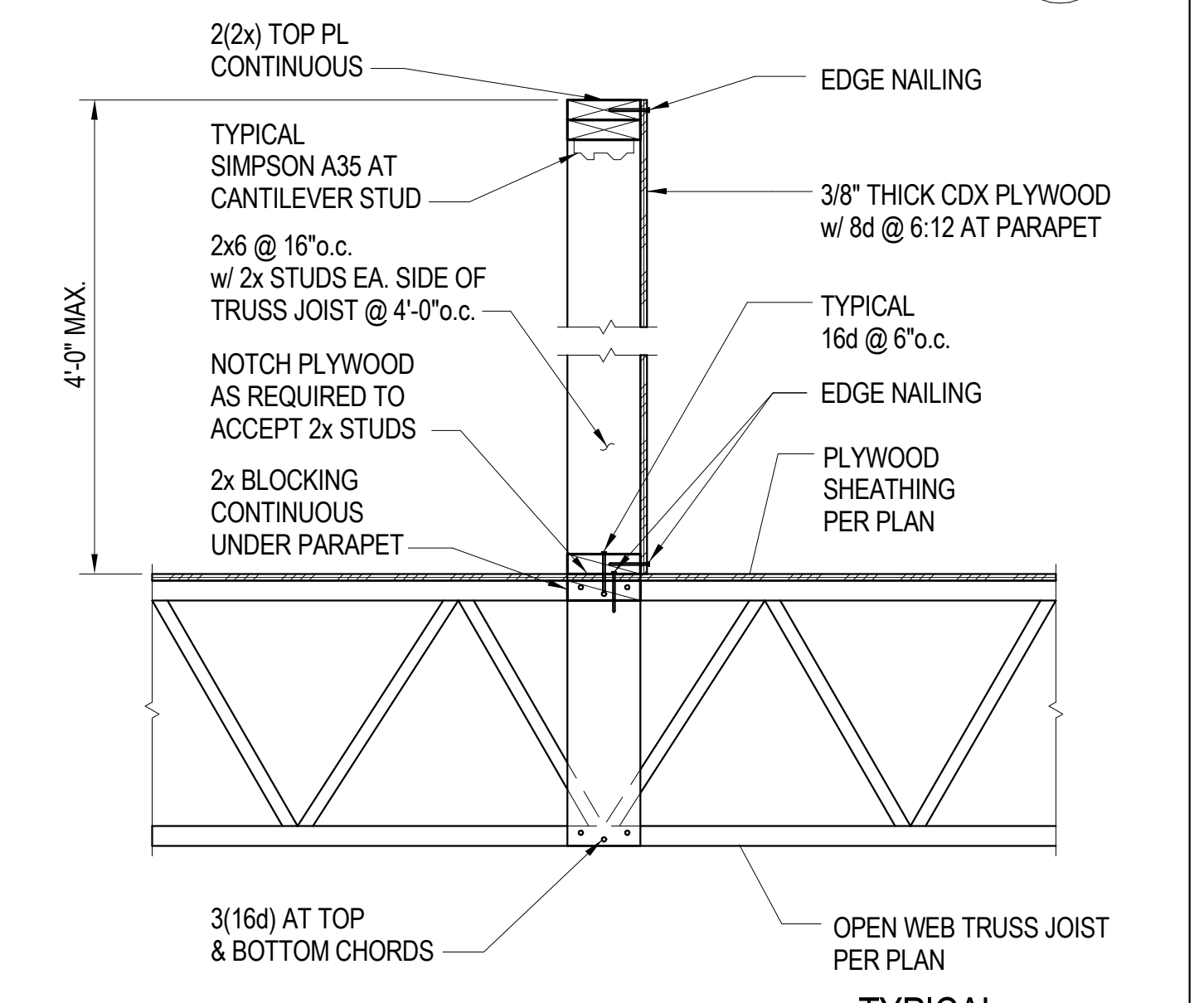
**4**  
TYPICAL INTERIOR STUD WALL PARALLEL TO RED-L/RED-W AT ROOF  
1"=1'-0"



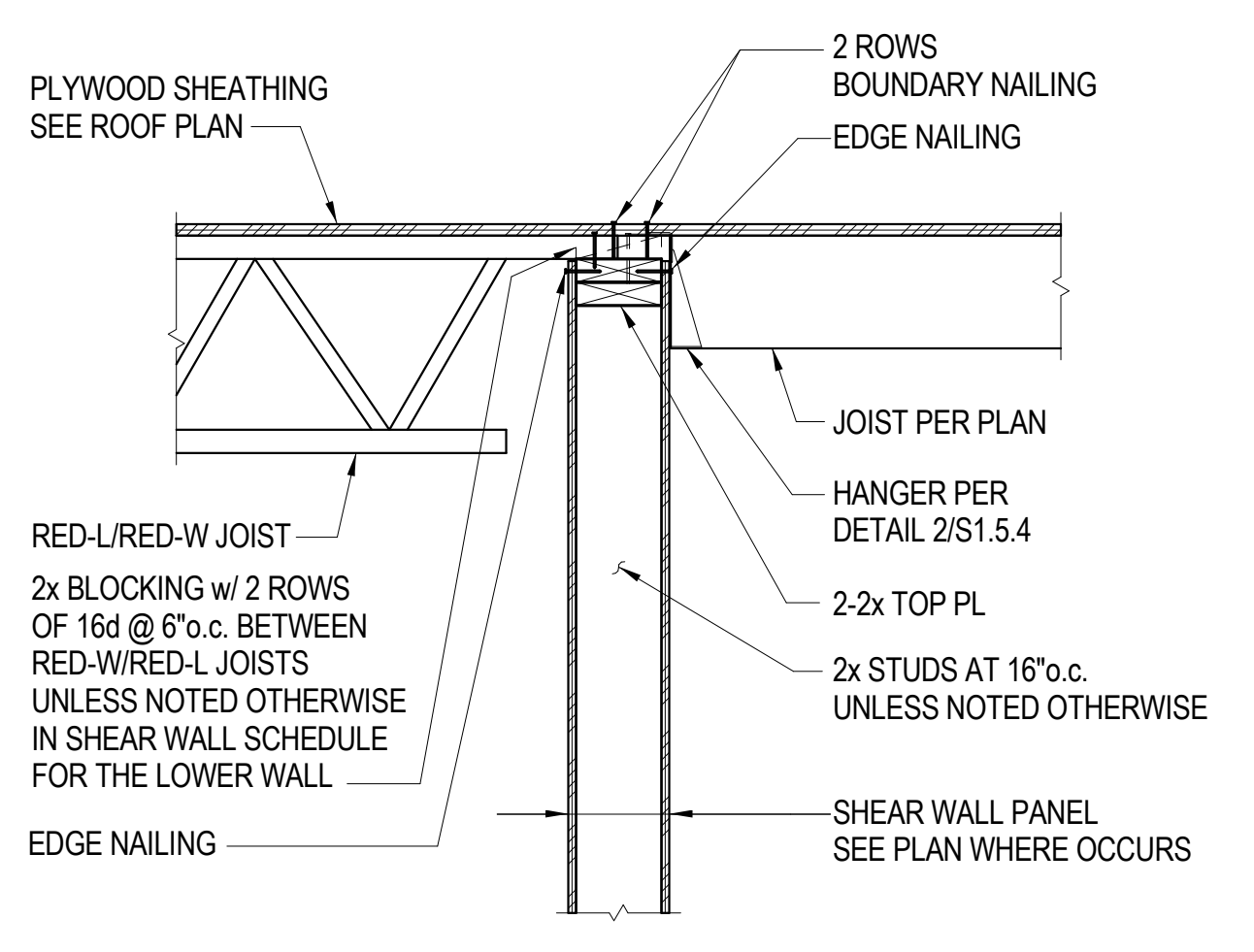
**3**  
TYPICAL PARAPET STUD WALL AT RED-L/RED-W  
1"=1'-0"



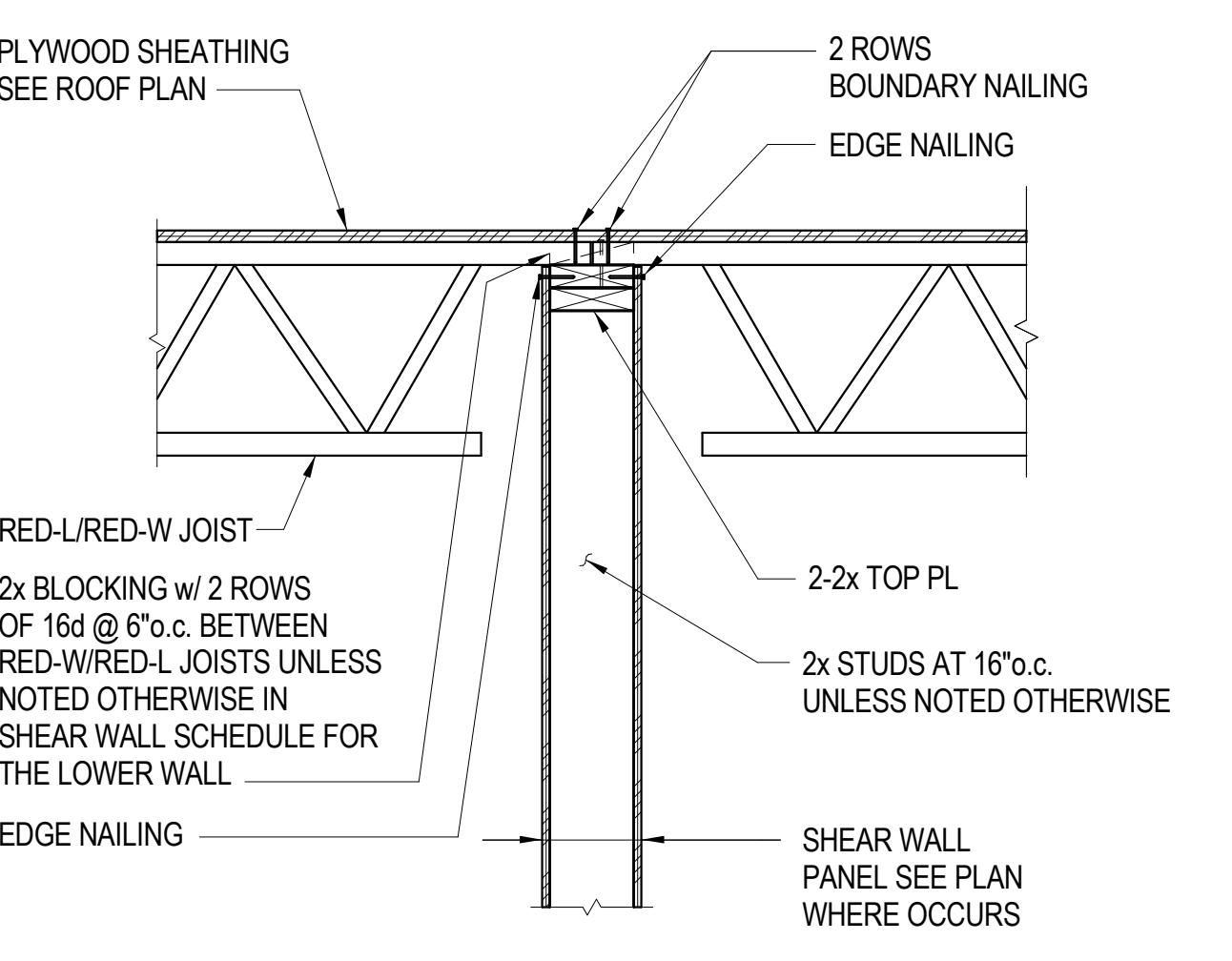
**2**  
TYPICAL FLOOR AND ROOF OPENING AT OPEN WEB JOIST  
1"=1'-0"



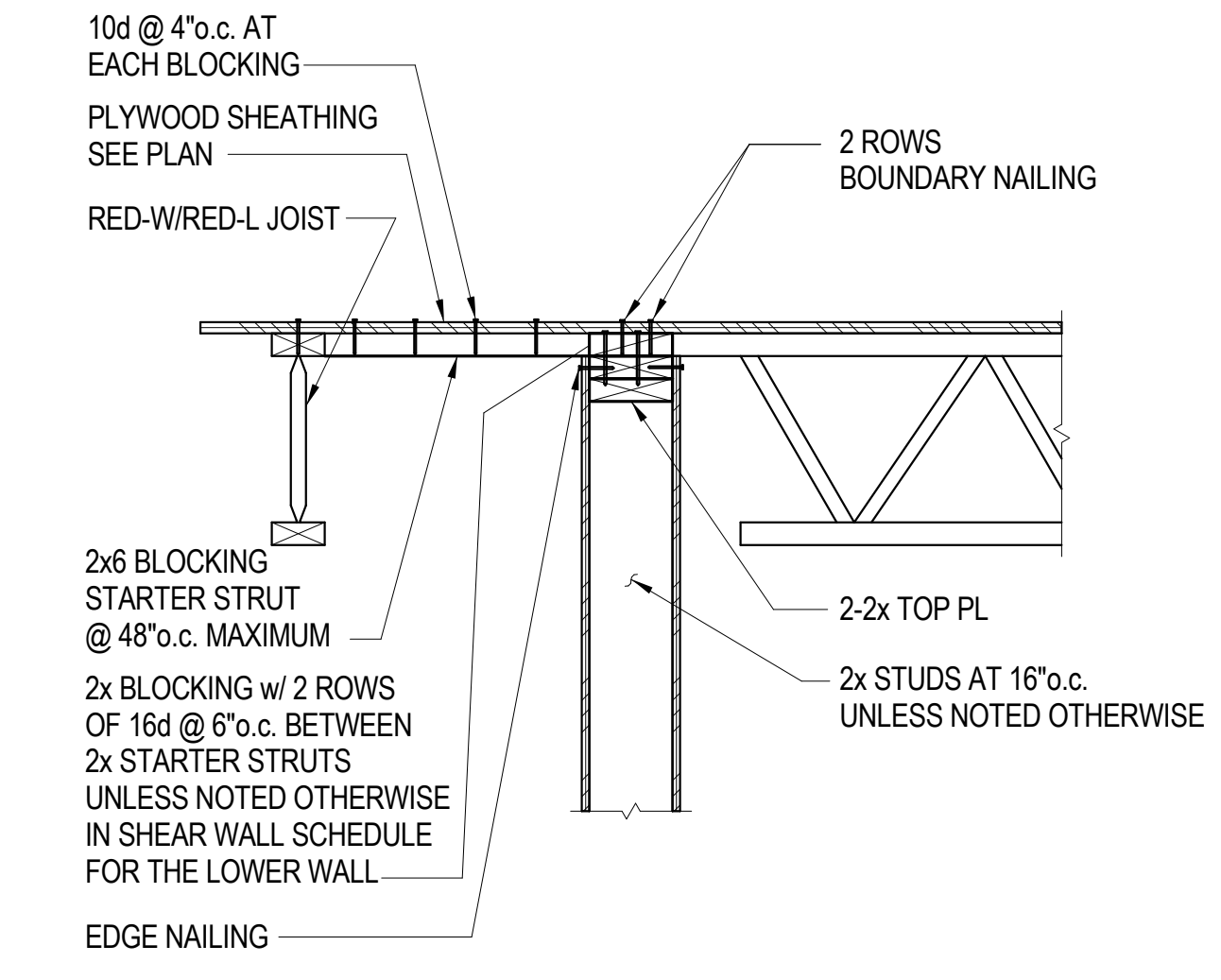
**1**  
TYPICAL PARAPET DETAIL PERPENDICULAR TO JOIST  
1"=1'-0"



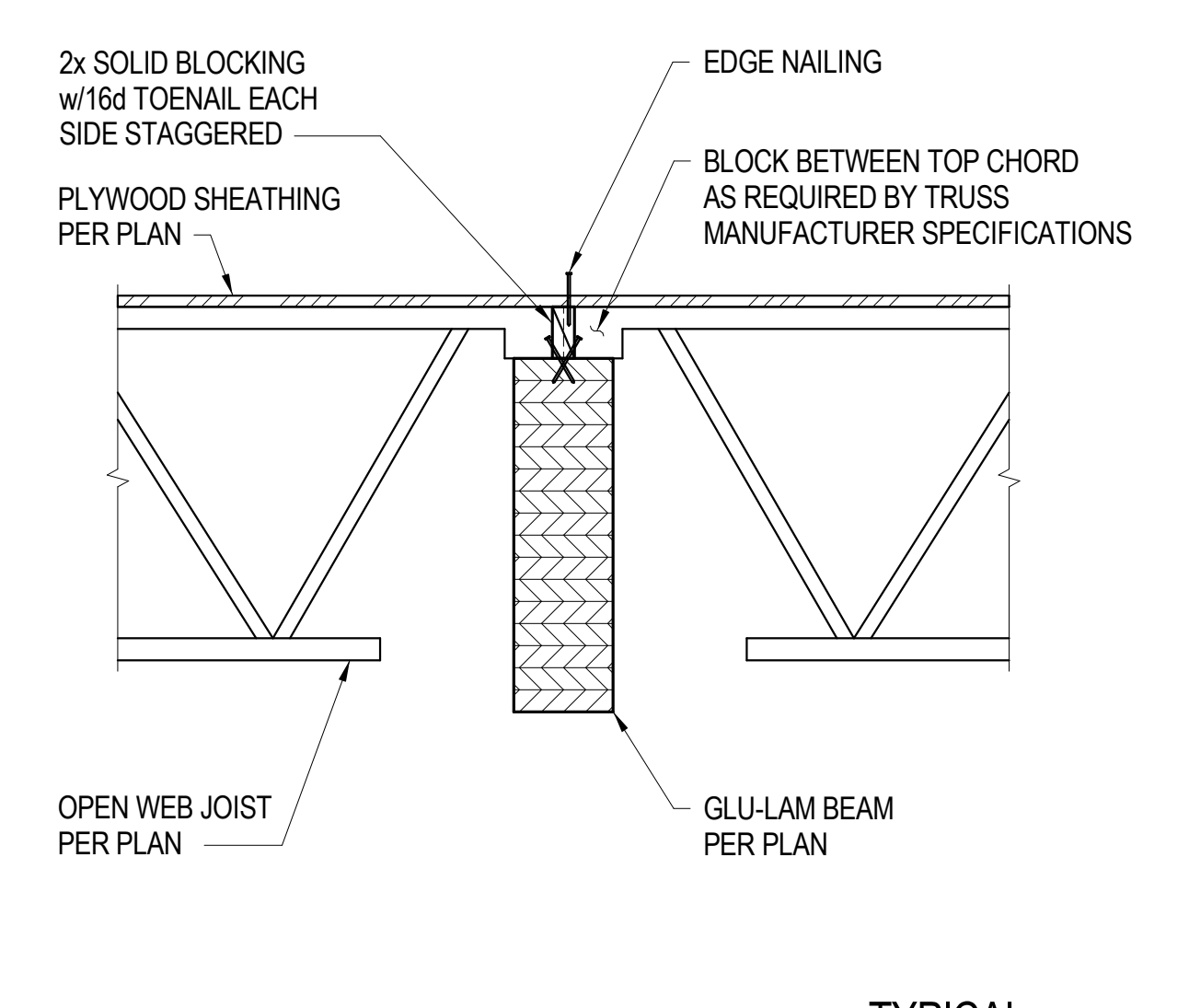
**8**  
TYPICAL INTERIOR STUD WALL PERPENDICULAR TO RED-L/RED-W AND JOIST FRAMING  
1"=1'-0"



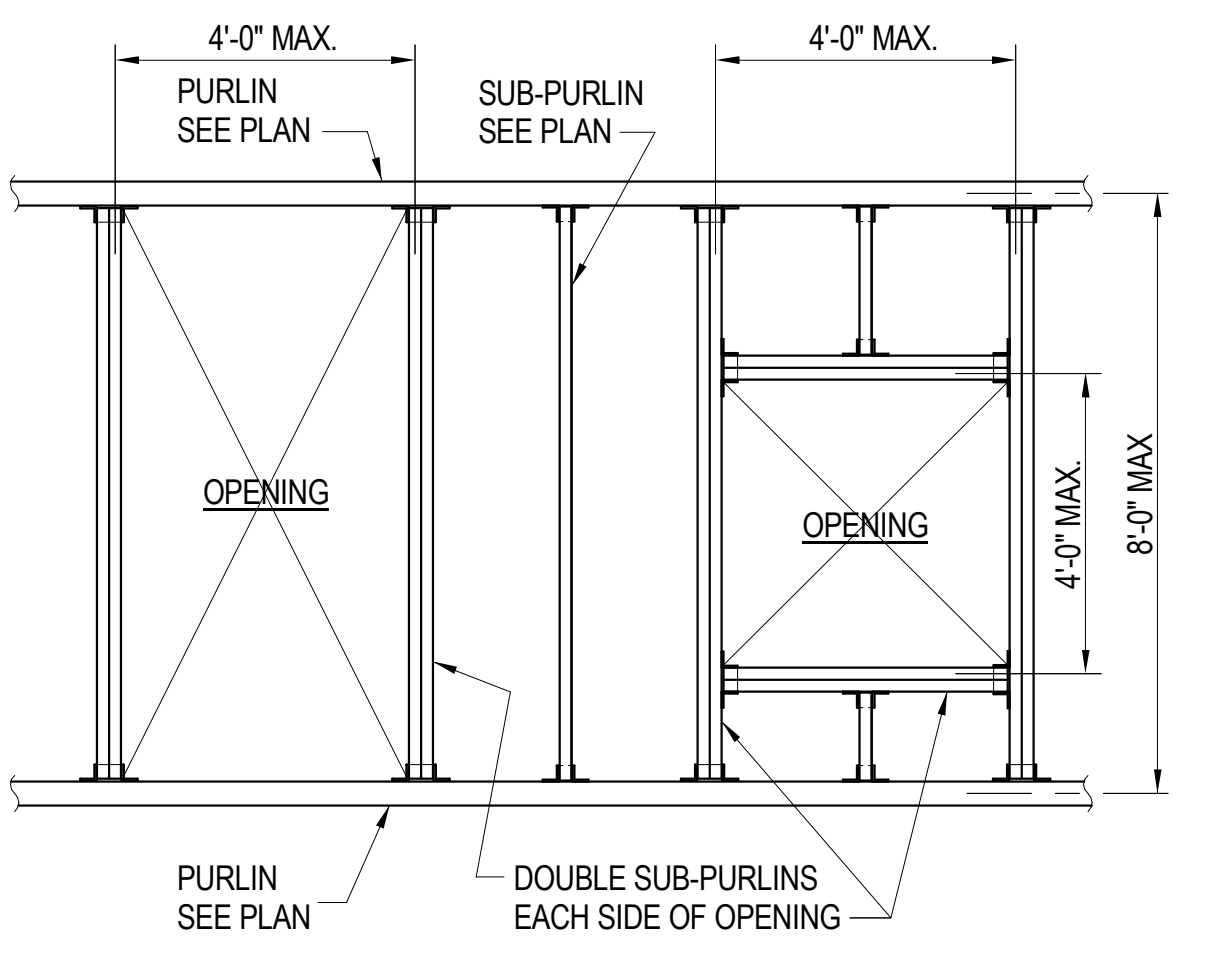
**7**  
TYPICAL INTERIOR STUD WALL PERPENDICULAR TO RED-L/RED-W AT ROOF  
1"=1'-0"



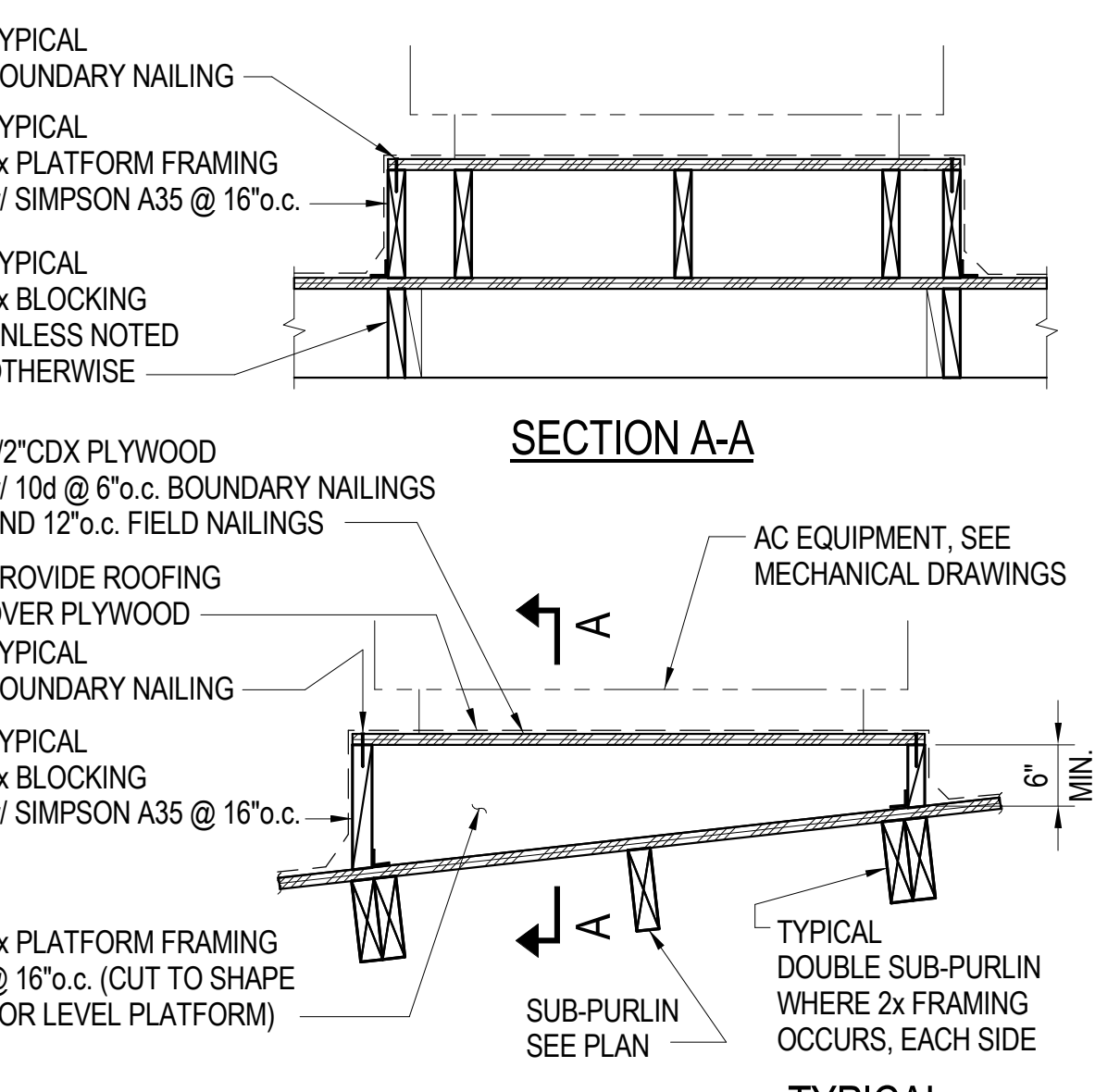
**6**  
TYPICAL CHANGE IN DIRECTION RED-L/RED-W JOIST FRAMING  
1"=1'-0"



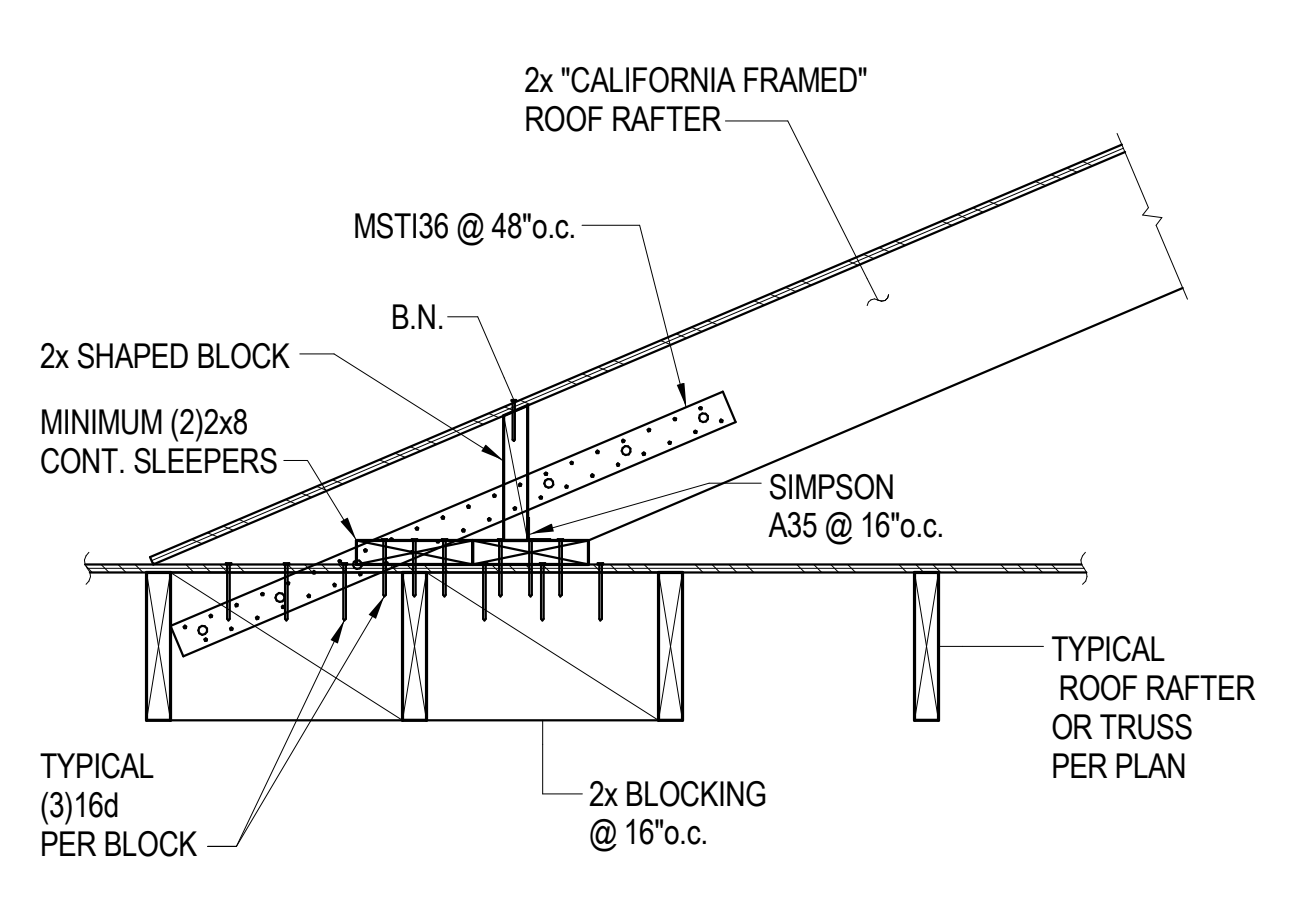
**5**  
TYPICAL OPEN WEB JOIST TO GLU-LAM BEAM DETAIL  
1"=1'-0"



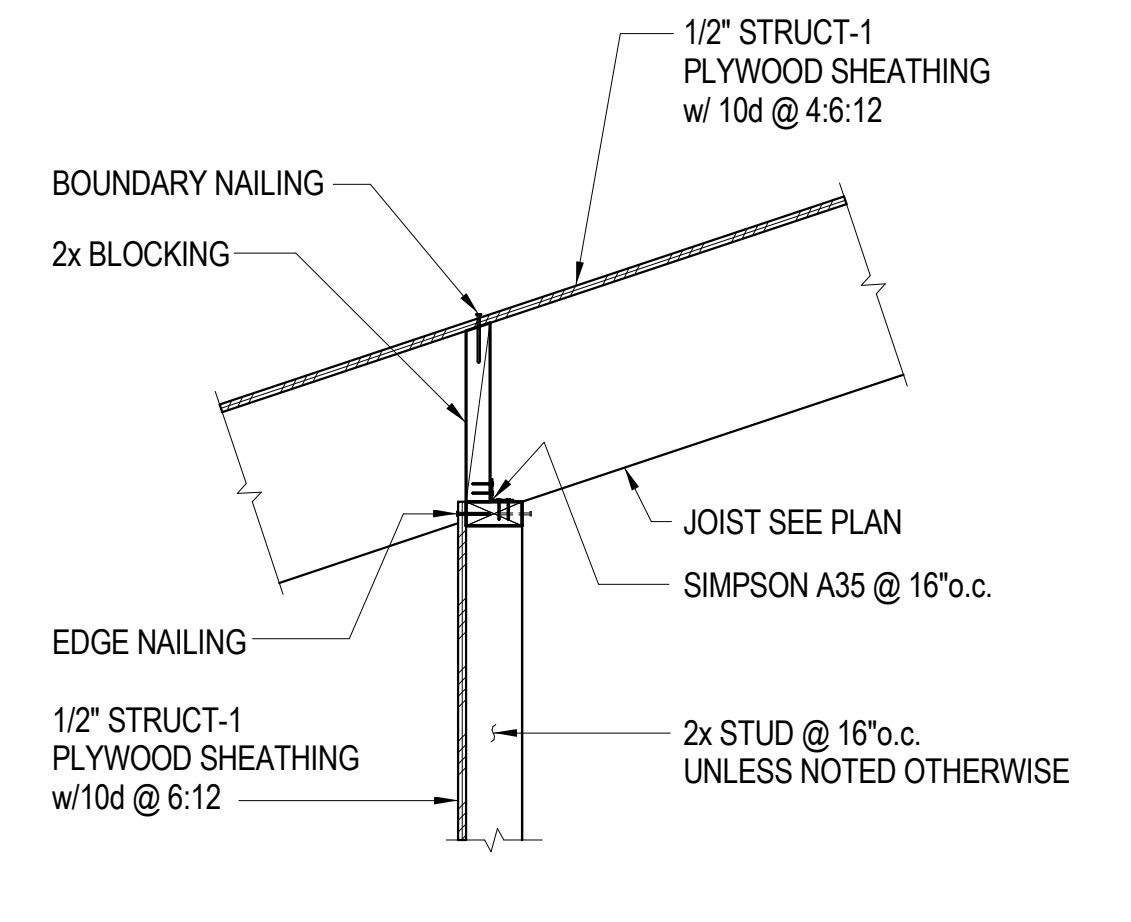
**10**  
TYPICAL ROOF OPENING DETAIL  
1"=1'-0"



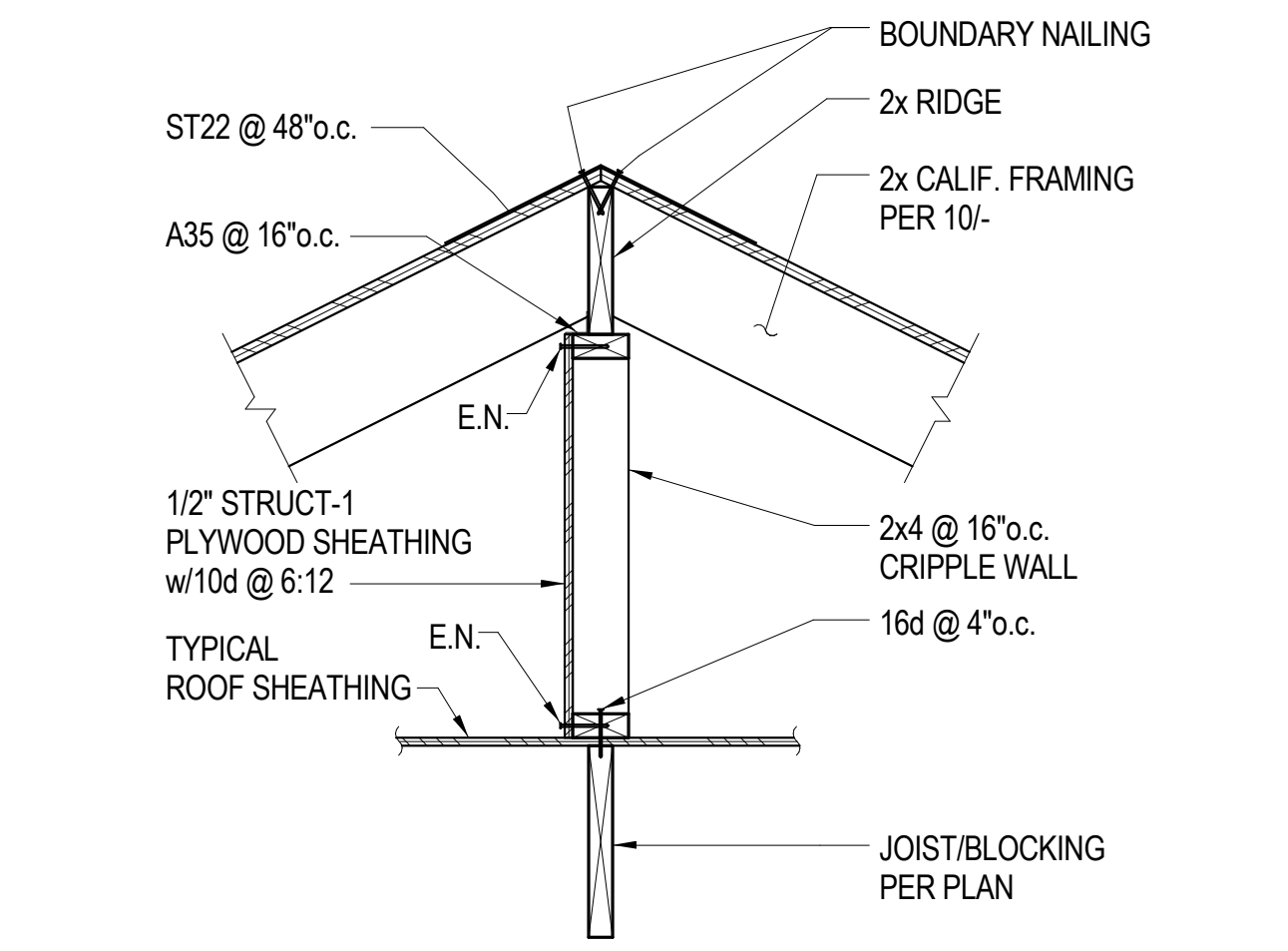
**9**  
TYPICAL MECHANICAL PLATFORM AT ROOF DETAILS  
1"=1'-0"



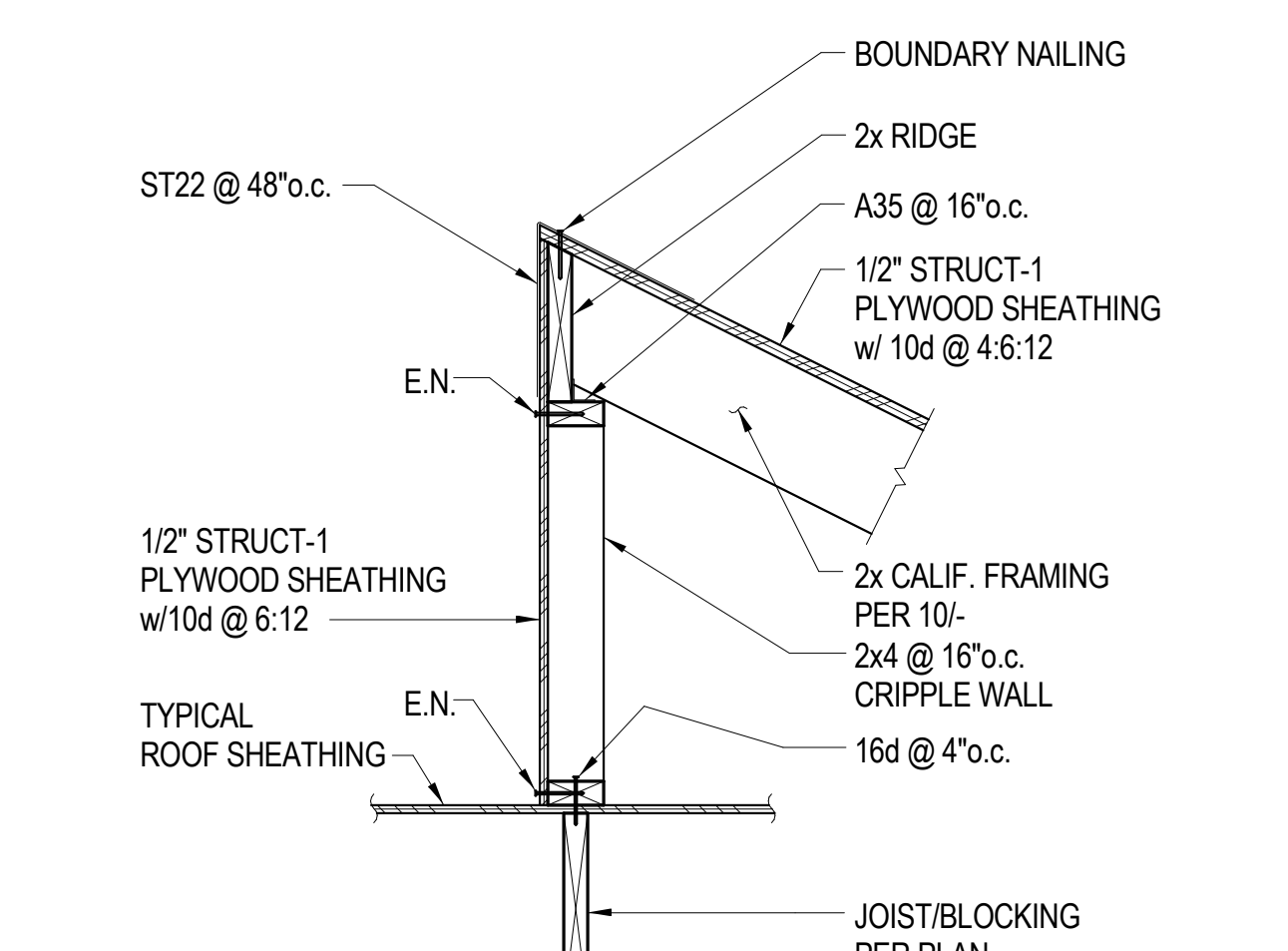
TYPICAL "CALIFORNIA FRAMING" DETAIL 13  
1"=1'-0"



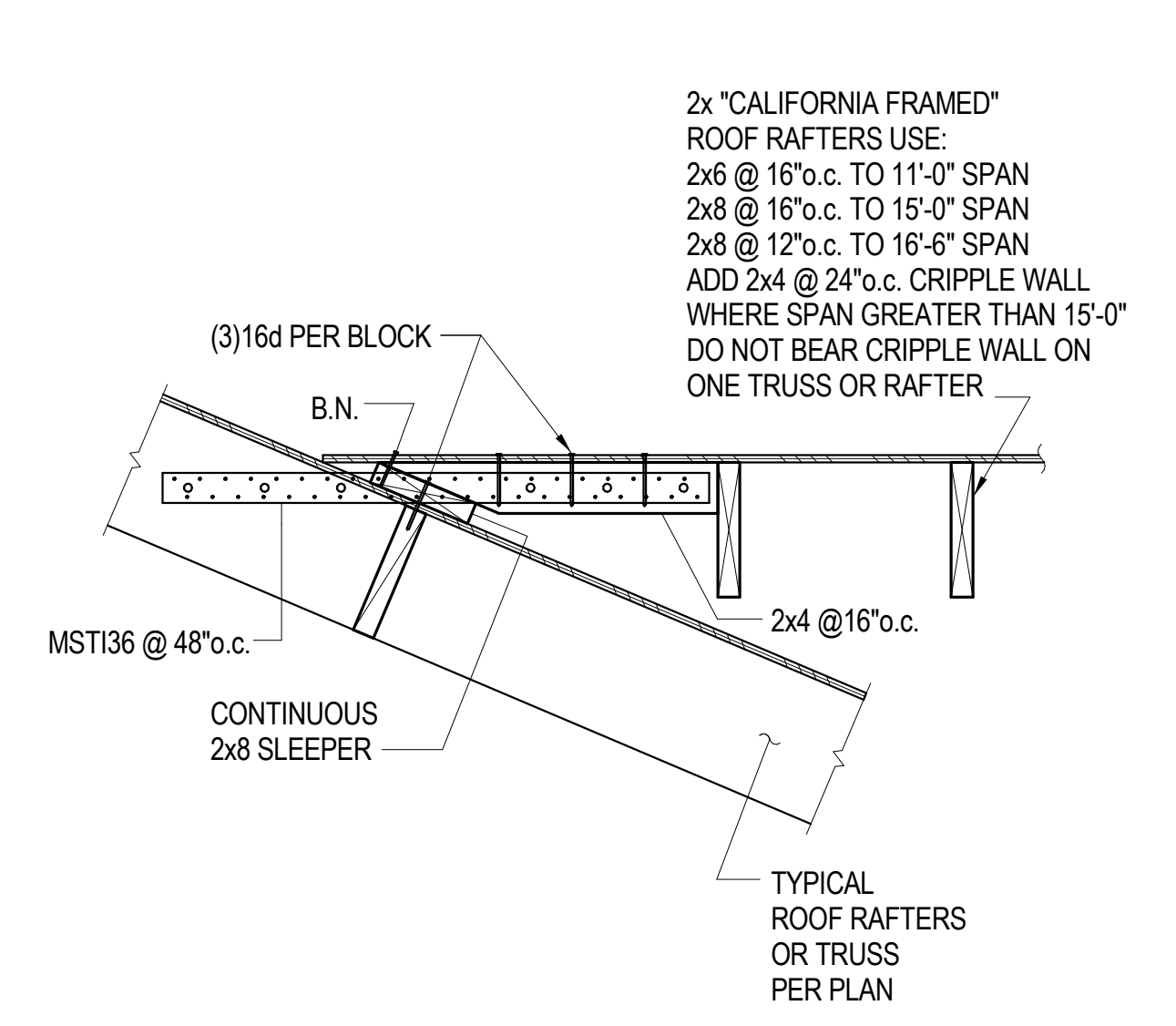
"CALIFORNIA FRAMING" EVE DETAIL 9  
1"=1'-0"



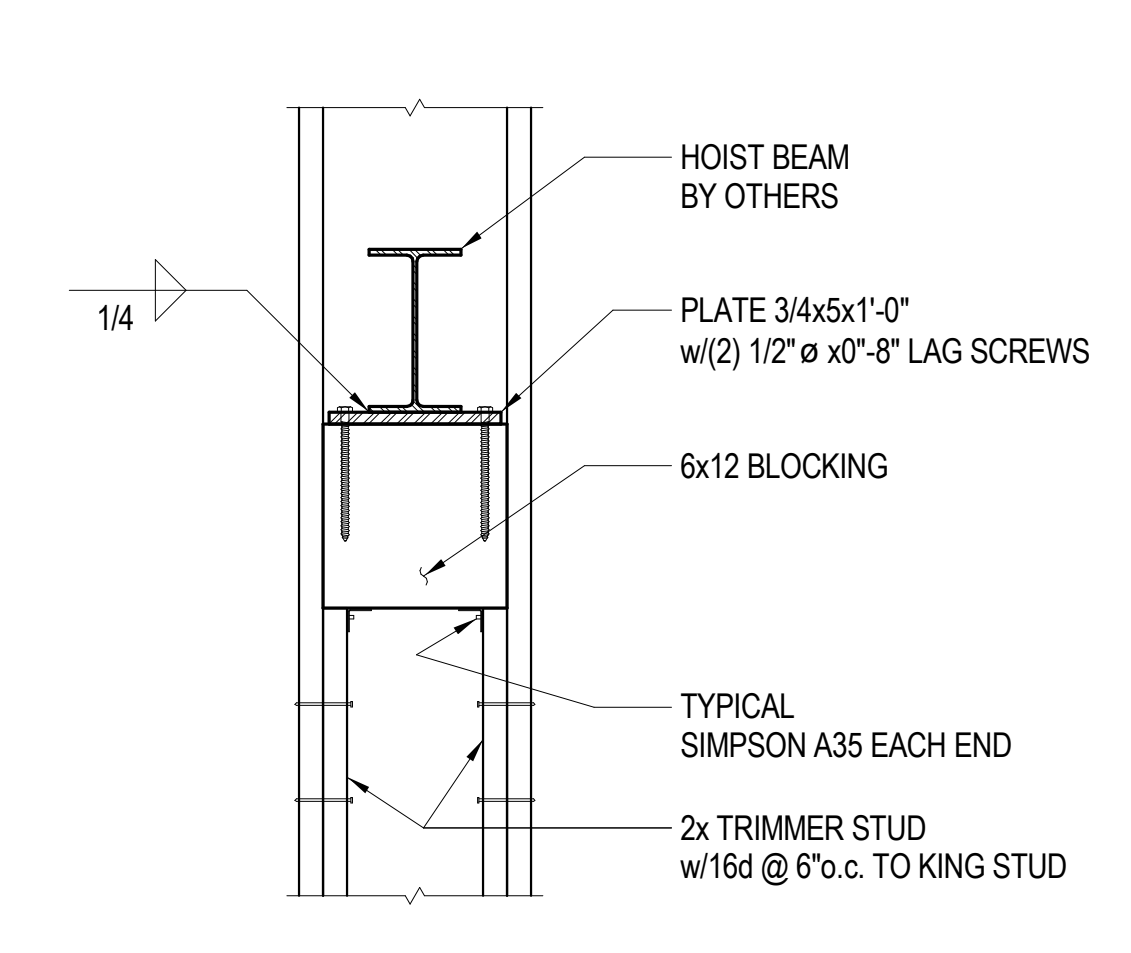
TYPICAL "CALIFORNIA FRAMING" RIDGE DETAIL 12  
1"=1'-0"



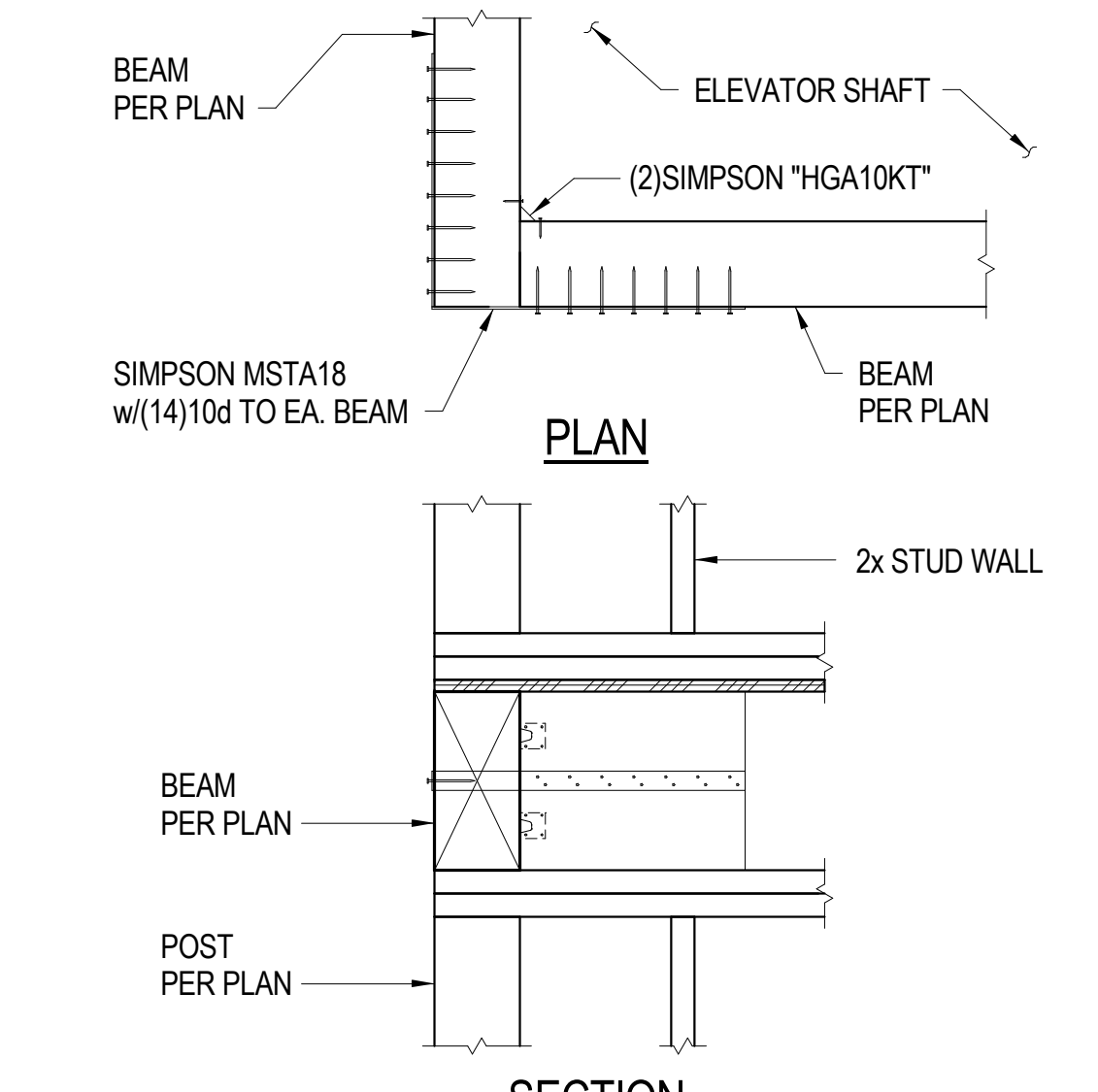
TYPICAL "CALIFORNIA FRAMING" RIDGE DETAIL 11  
1"=1'-0"



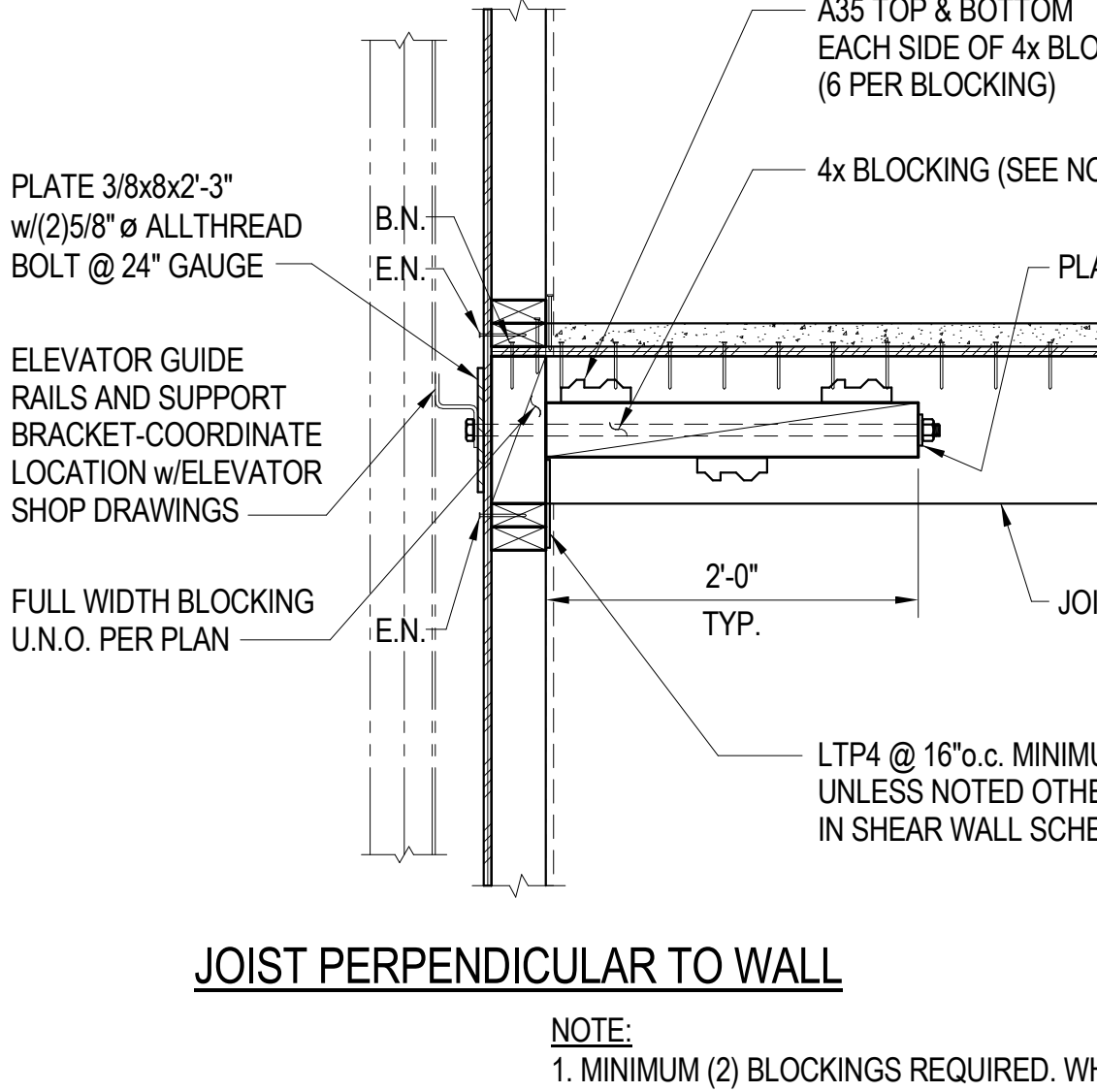
TYPICAL "CALIFORNIA FRAMING" DETAIL 10  
1"=1'-0"



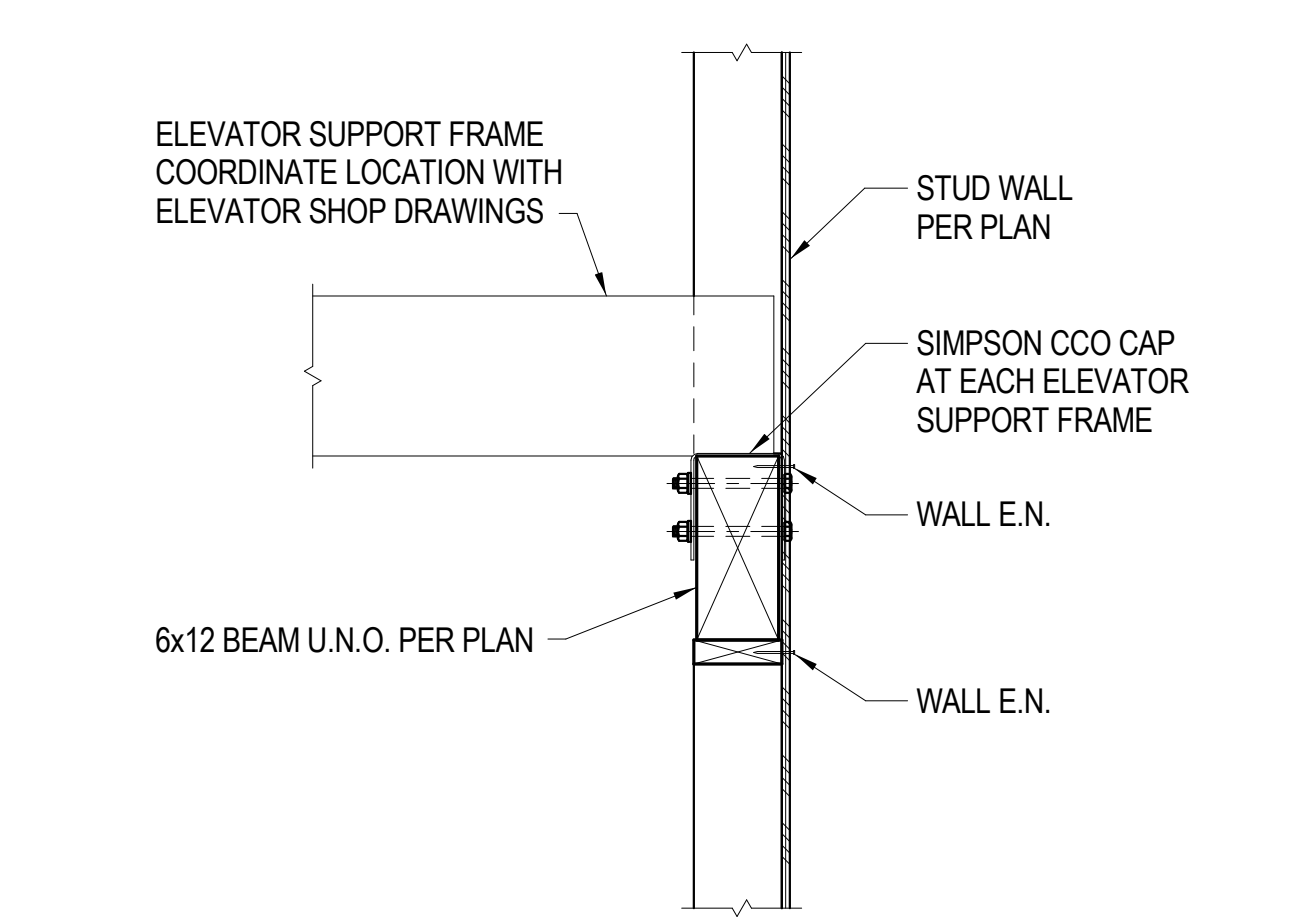
TYPICAL HOIST BEAM SUPPORT DETAIL 8  
1"=1'-0"



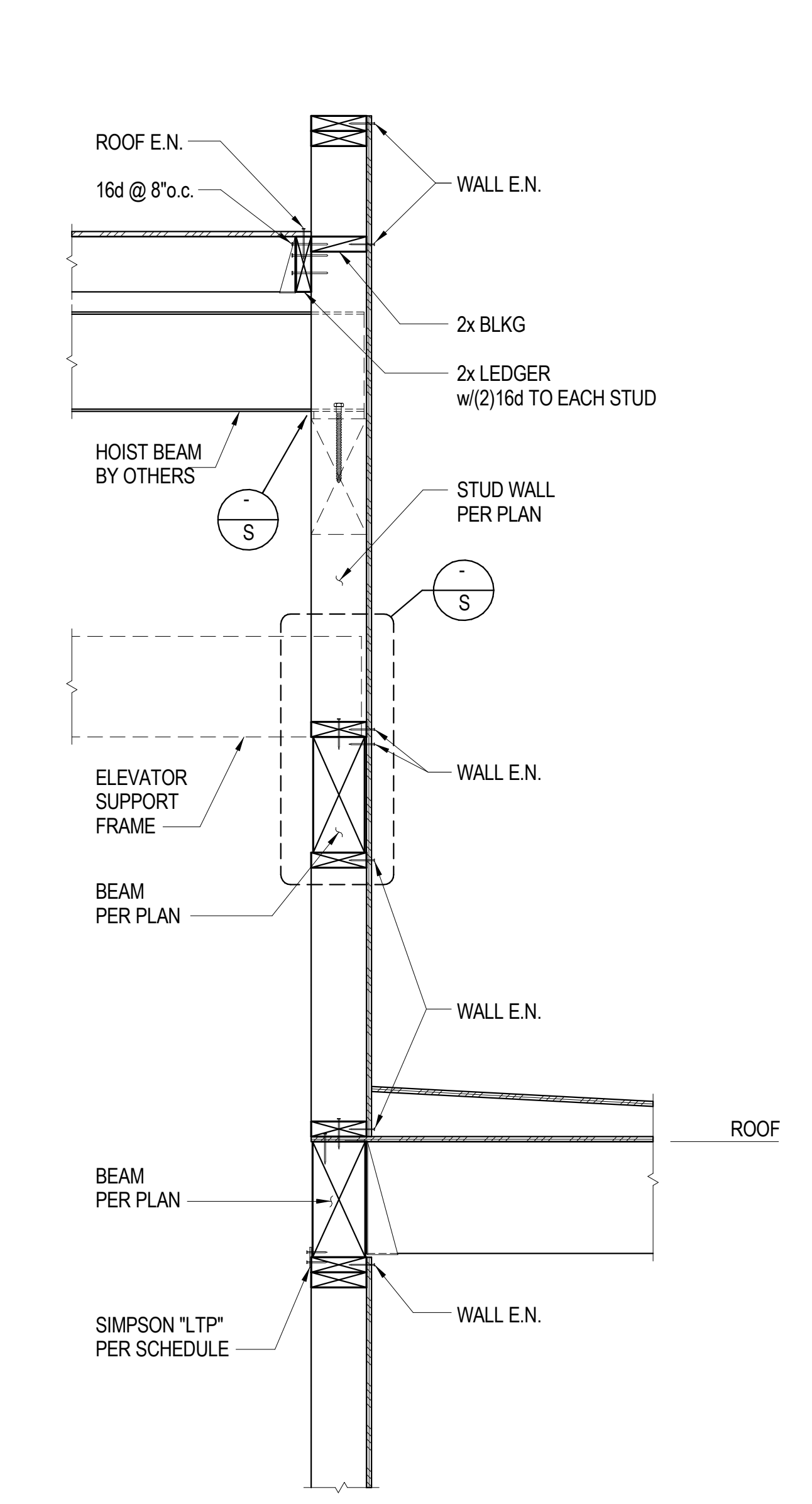
TYPICAL ELEVATOR SHAFT CORNER FRAMING DETAIL 7  
1"=1'-0"



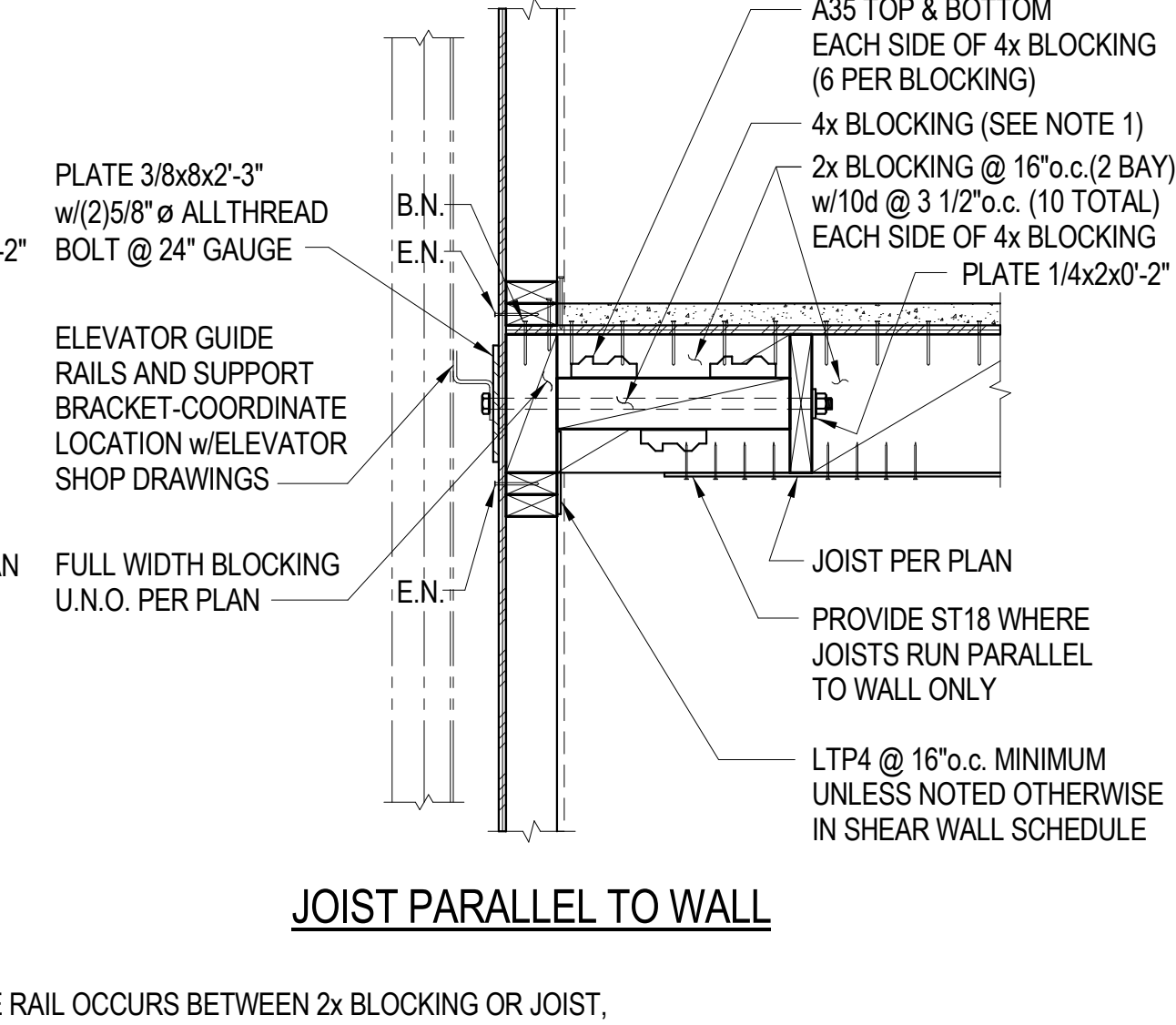
TYPICAL ELEVATOR RAIL BRACKET SUPPORT DETAIL 4  
1"=1'-0"



TYPICAL ELEVATOR SUPPORT FRAME DETAIL 6  
1"=1'-0"



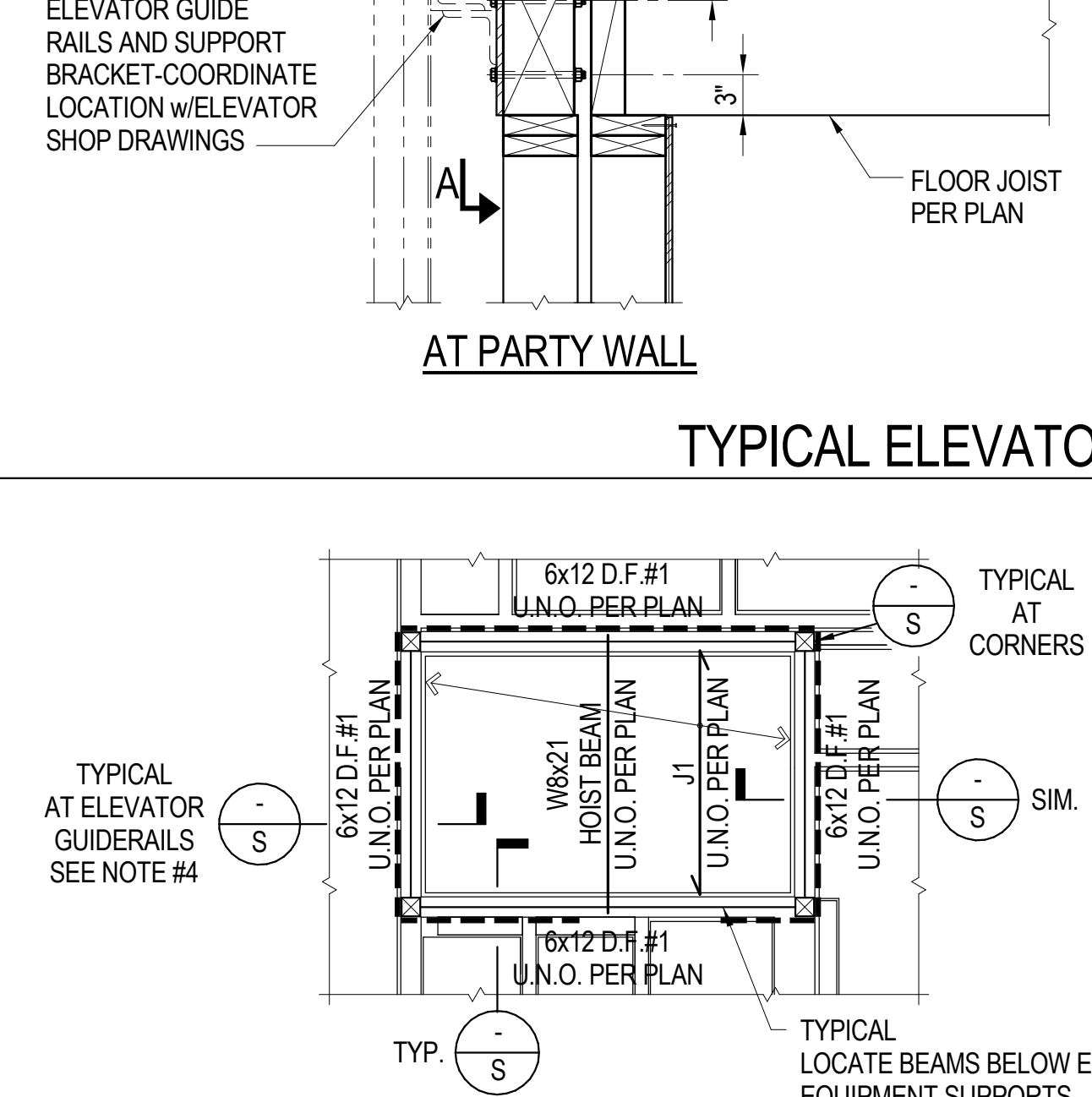
TYPICAL ELEVATOR SHAFT AT ROOF 5  
1"=1'-0"



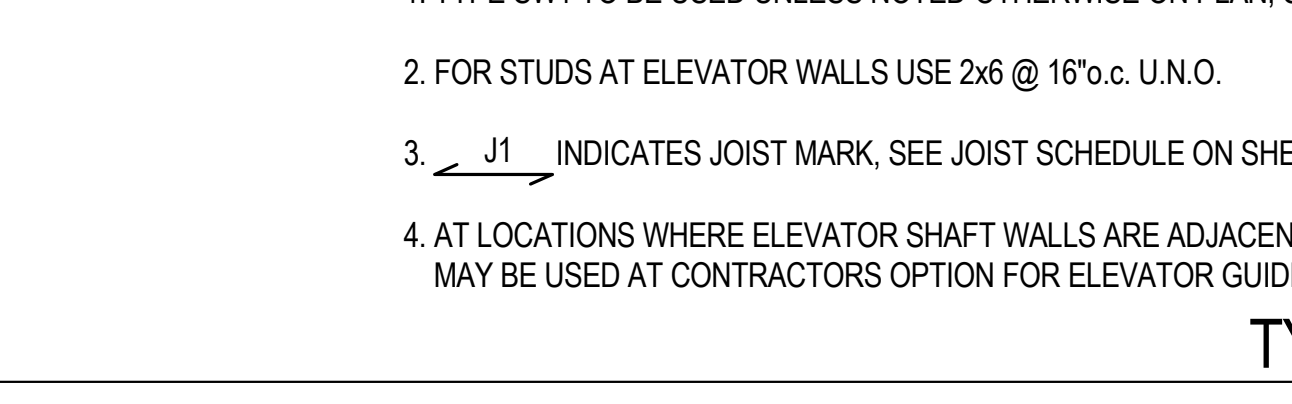
TYPICAL ELEVATOR SHAFT AT ROOF 5  
1"=1'-0"



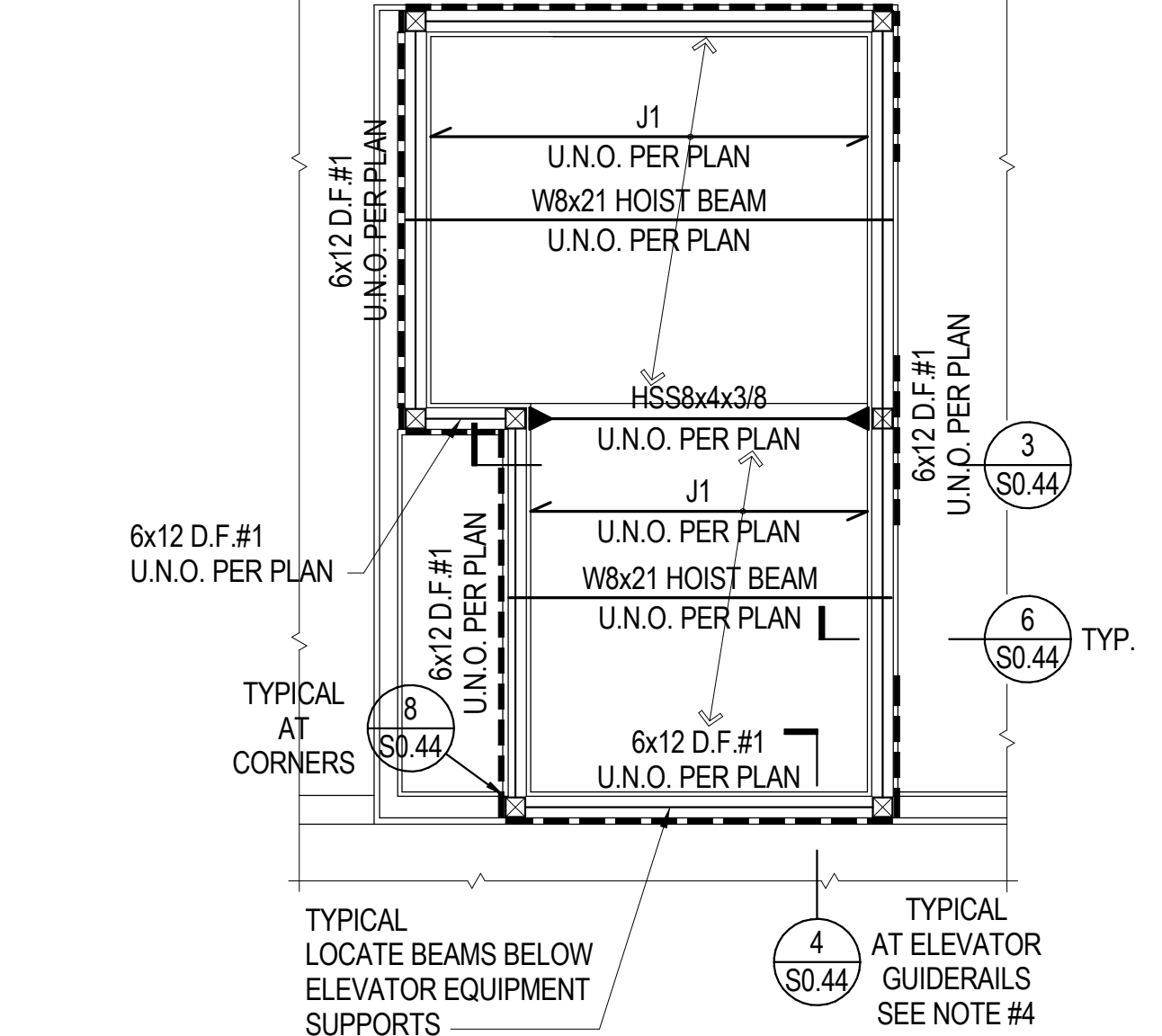
TYPICAL ELEVATOR SHAFT FRAMING AT GUIDE RAIL DETAIL 3  
1"=1'-0"



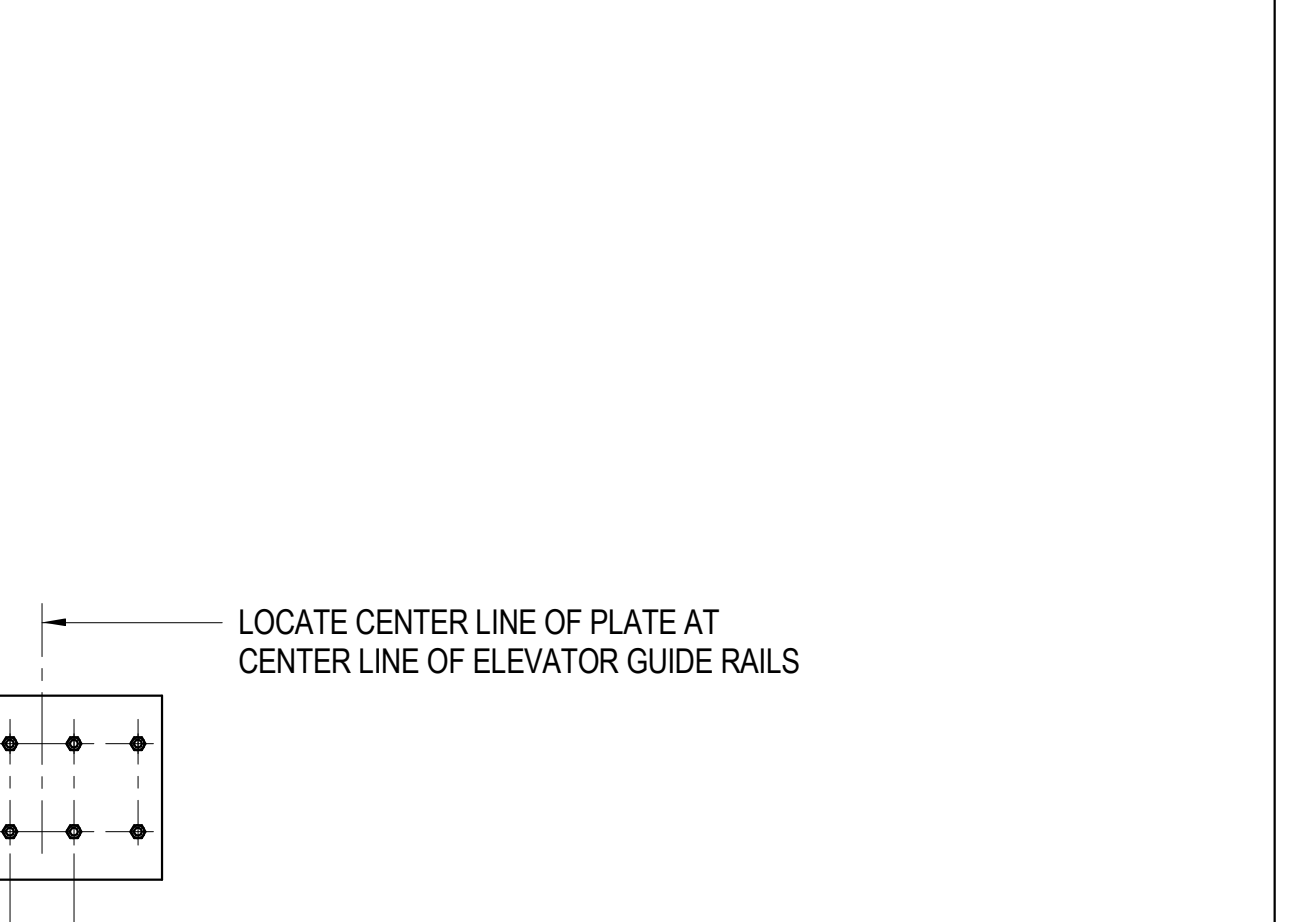
TYPICAL ELEVATOR SHAFT FRAMING AT GUIDE RAIL DETAIL 3  
1"=1'-0"



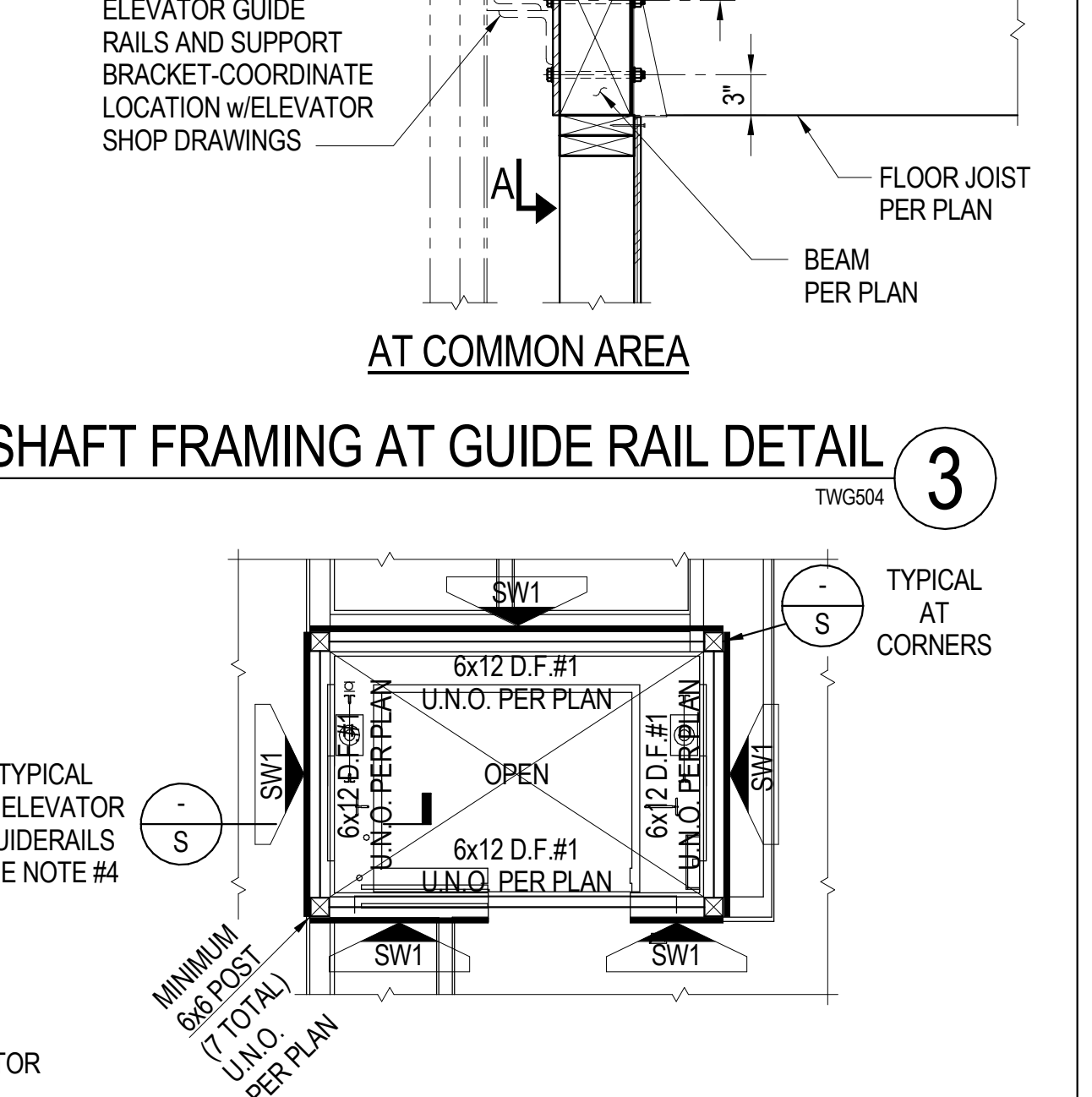
TYPICAL ELEVATOR ROOF FRAMING PLAN  
1"=1'-0"



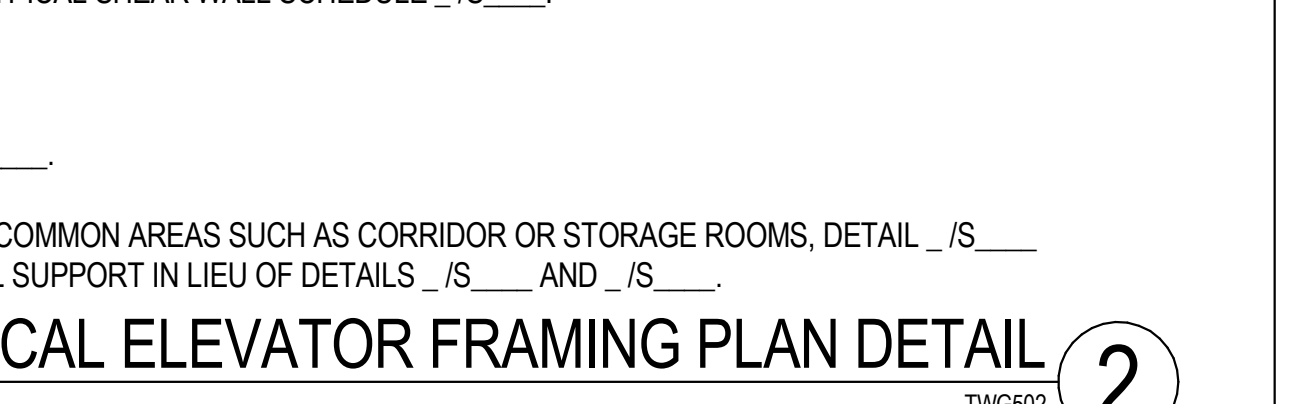
TYPICAL ELEVATOR FLOOR FRAMING PLAN  
1"=1'-0"



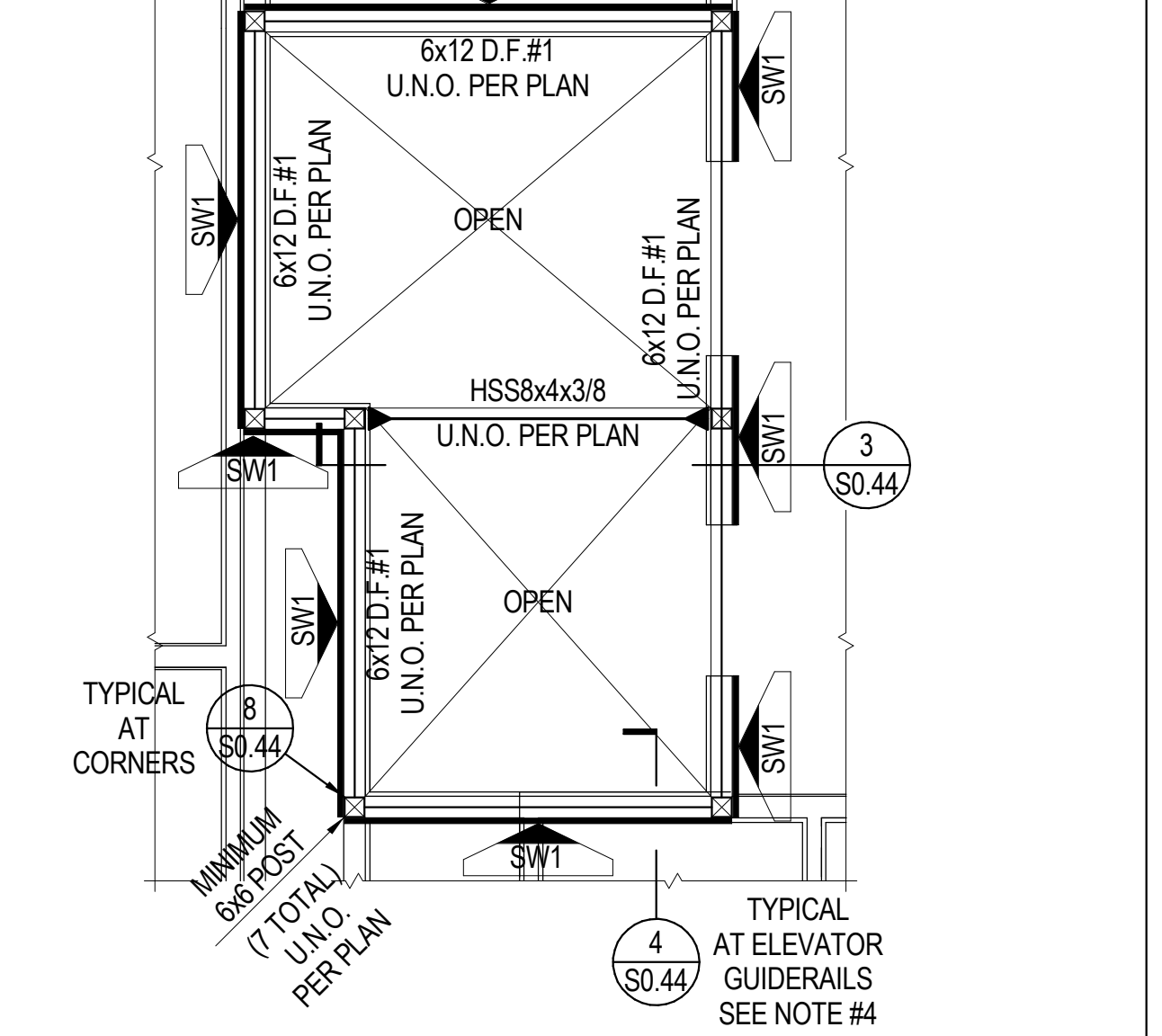
TYPICAL ELEVATOR SHAFT FRAMING AT GUIDE RAIL DETAIL 3  
1"=1'-0"



TYPICAL ELEVATOR SHAFT FRAMING AT GUIDE RAIL DETAIL 3  
1"=1'-0"



TYPICAL ELEVATOR ROOF FRAMING PLAN  
1"=1'-0"



TYPICAL ELEVATOR FLOOR FRAMING PLAN  
1"=1'-0"

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2850 REDHILL AVENUE, SUITE 200, SANTA ANA, CA 92705-5943  
949 250 6007 www.hezmalhalch.com fax 949 250 1529  
6111 BOLLINGER CANYON ROAD, SUITE 405 SAN RAMON, CA 94583-9186  
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3621 Harbor Boulevard  
Suite 125  
Santa Ana, CA 92704  
714.557.8551 T  
714.557.8551 F  
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2402 BRISTOL ST. SANTA ANA, CA 92704  
BRISTOL SPEEDWASH, INC.  
10801 NATIONAL BLVD., STE 510 LOS ANGELES, CA. 90064

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REVISIONS		
NO.	DATE	DESCRIPTION
1	05/18/17	2ND PLAN CHECK SUBMITTAL
	07/14/17	3RD PLAN CHECK SUBMITTAL

TYPICAL WOOD DETAILS	
SHEET SCALE:	As Indicated
PROJECT MANAGER:	MH
DESIGNER:	JN
DRAWN BY:	FS
REVIEWED BY:	
1st DEPT. SUBMITTAL:	XX/2016
ISSUED FOR CONST.:	
JOB NUMBER:	16-5003
CAD FILE NAME:	

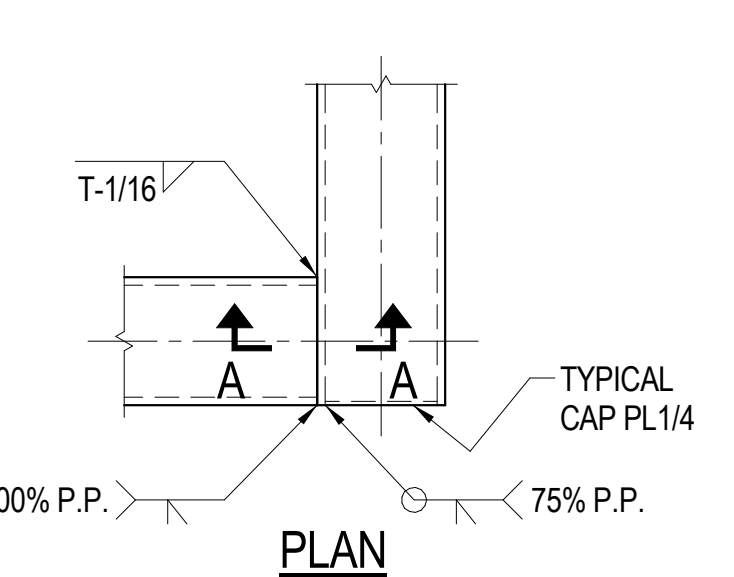
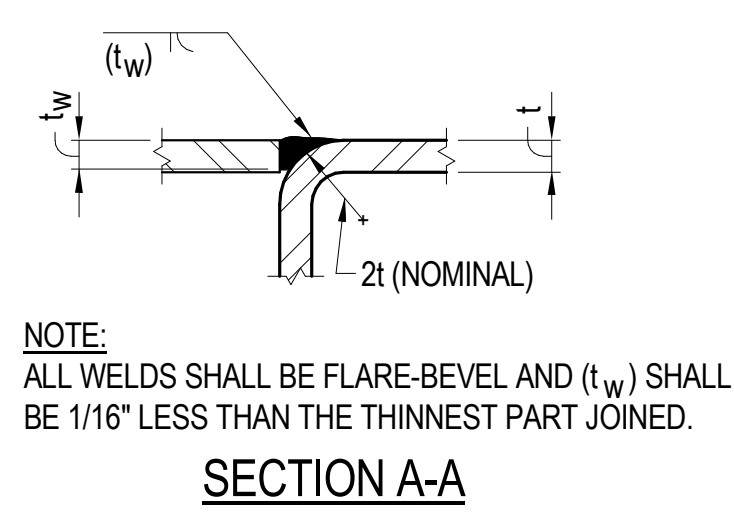
SHEET SCALE:	As Indicated
PROJECT MANAGER:	MH
DESIGNER:	JN
DRAWN BY:	FS
REVIEWED BY:	
1st DEPT. SUBMITTAL:	XX/2016
ISSUED FOR CONST.:	
JOB NUMBER:	16-5003
CAD FILE NAME:	

S0.44

2ND BUILDING PLAN CHECK COORDINATION 05.18.2017

MARK	SIZE & NUMBER OF BOLTS	SHEAR PLATE		REMARKS
		SIZE	WELD (EACH SIDE)	
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

NOTE: ALL BOLTS SHALL BE PLACED IN A SINGLE ROW UNLESS NOTED OTHERWISE. IN MULTIPLE ROWS, (SEE REMARKS) MAXIMUM NUMBER OF BOLTS SHALL BE PLACED IN THE FIRST ROW NEAREST SUPPORT WITH THE REMAINDER EQUALLY SPACED IF POSSIBLE IN THE 2ND ROW.

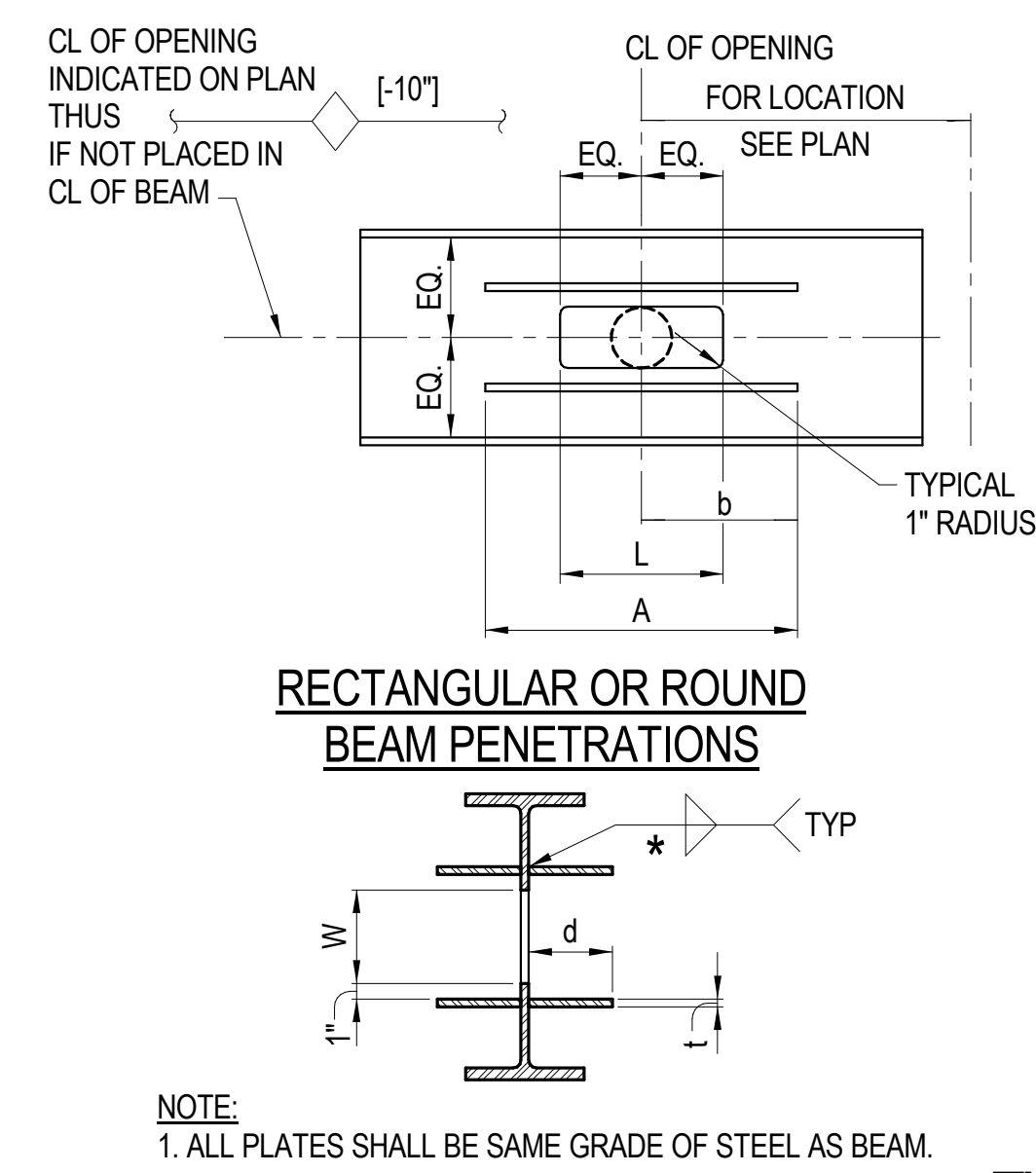


TYPICAL HSS TO HSS CONNECTION DETAIL **6**  
TSG602

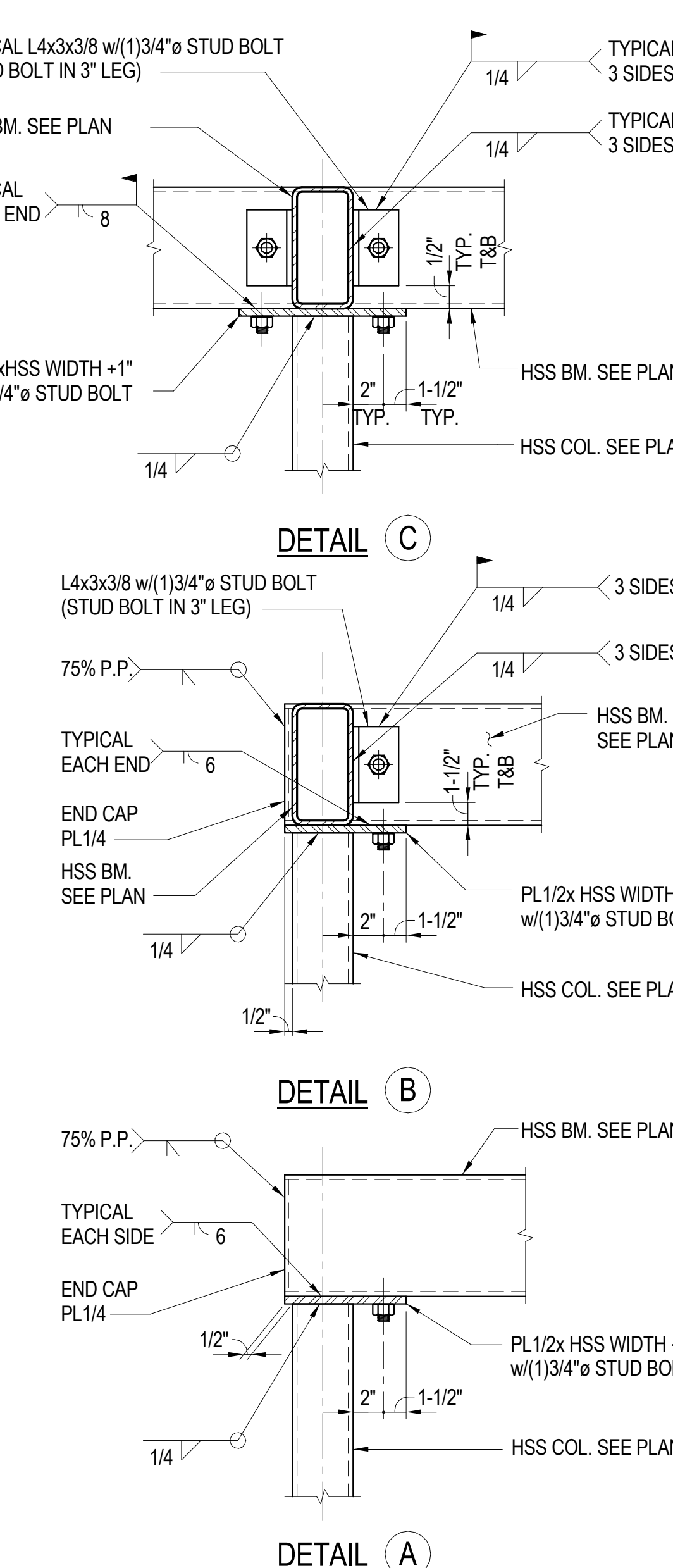
MARK	PENETRATION SIZE OR DIAMETER L X W	PLATE SIZE				WELD *
		t	d	A	b	
A						
B						
C						
D						
E						
F						
G						
H						
J						
K						
L						
M						
N						

TYPICAL STEEL BEAM PENETRATION SCHEDULE **5**  
TSG108

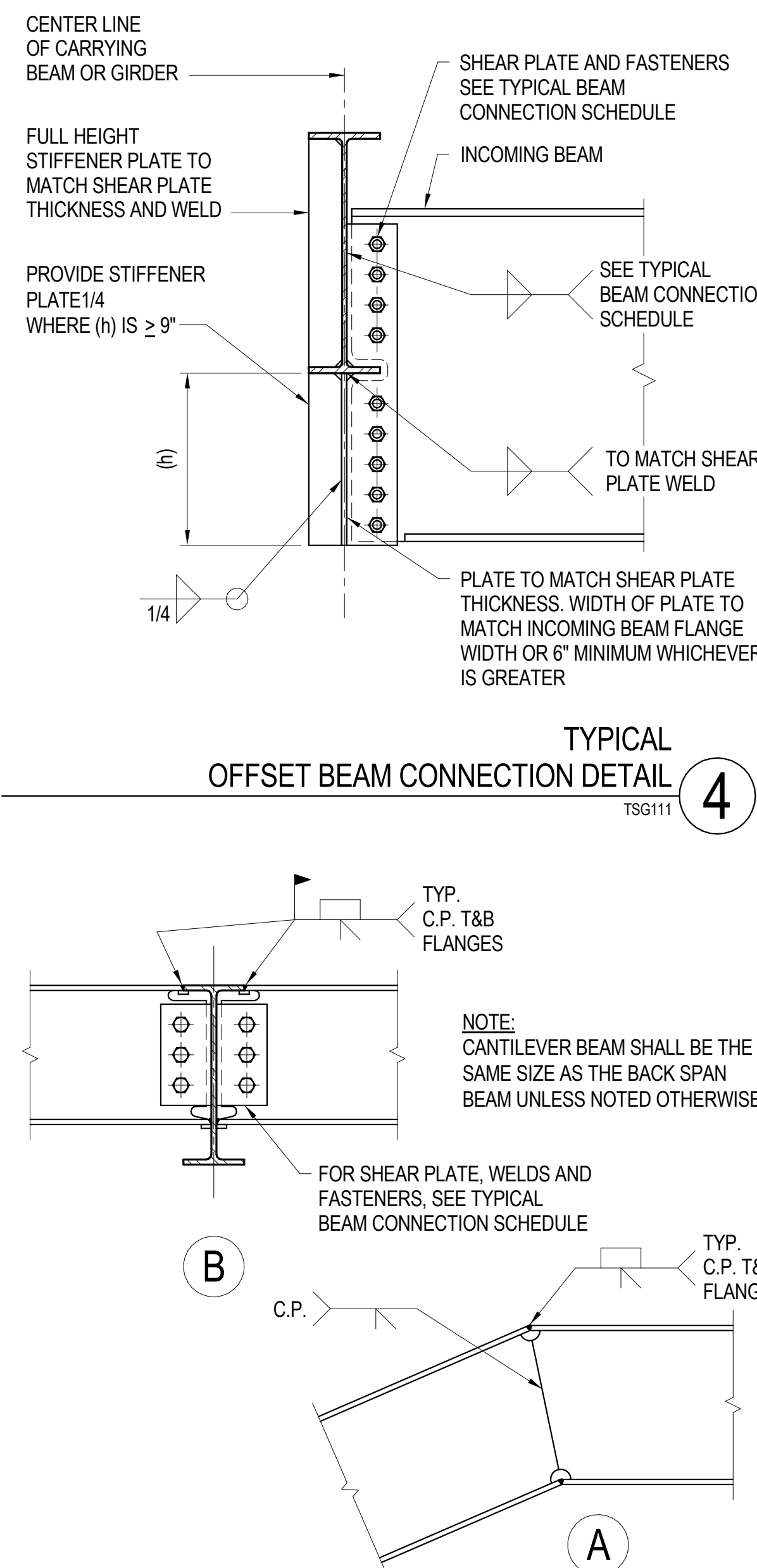
TYPICAL SPECIAL HIGH STRENGTH BOLT SCHEDULE **8**  
TSG101



TYPICAL HSS BEAM TO COLUMN CONNECTION DETAIL **7**  
TSG302

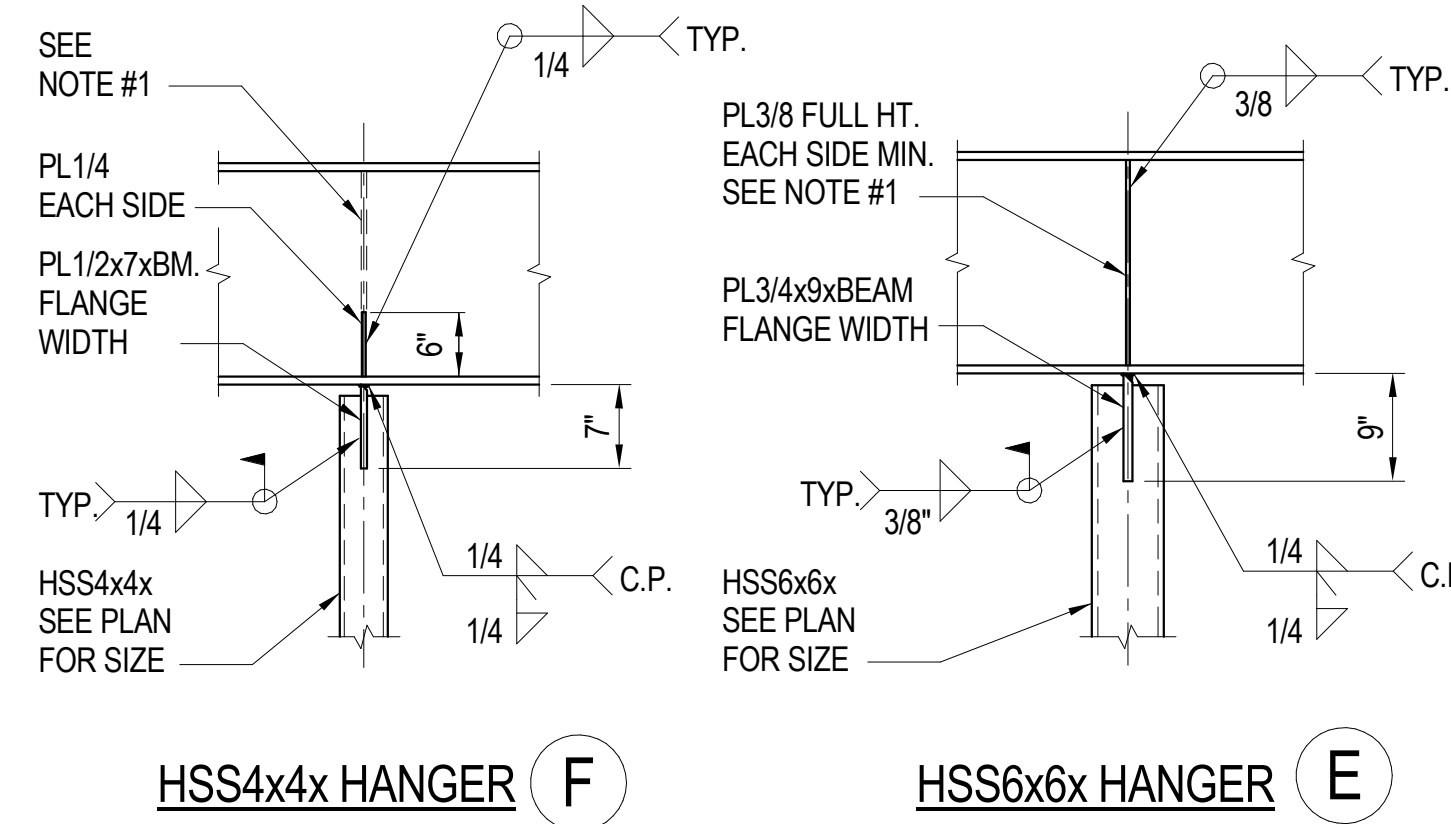


TYPICAL HSS BEAM TO COLUMN CONNECTION DETAIL **7**  
TSG302

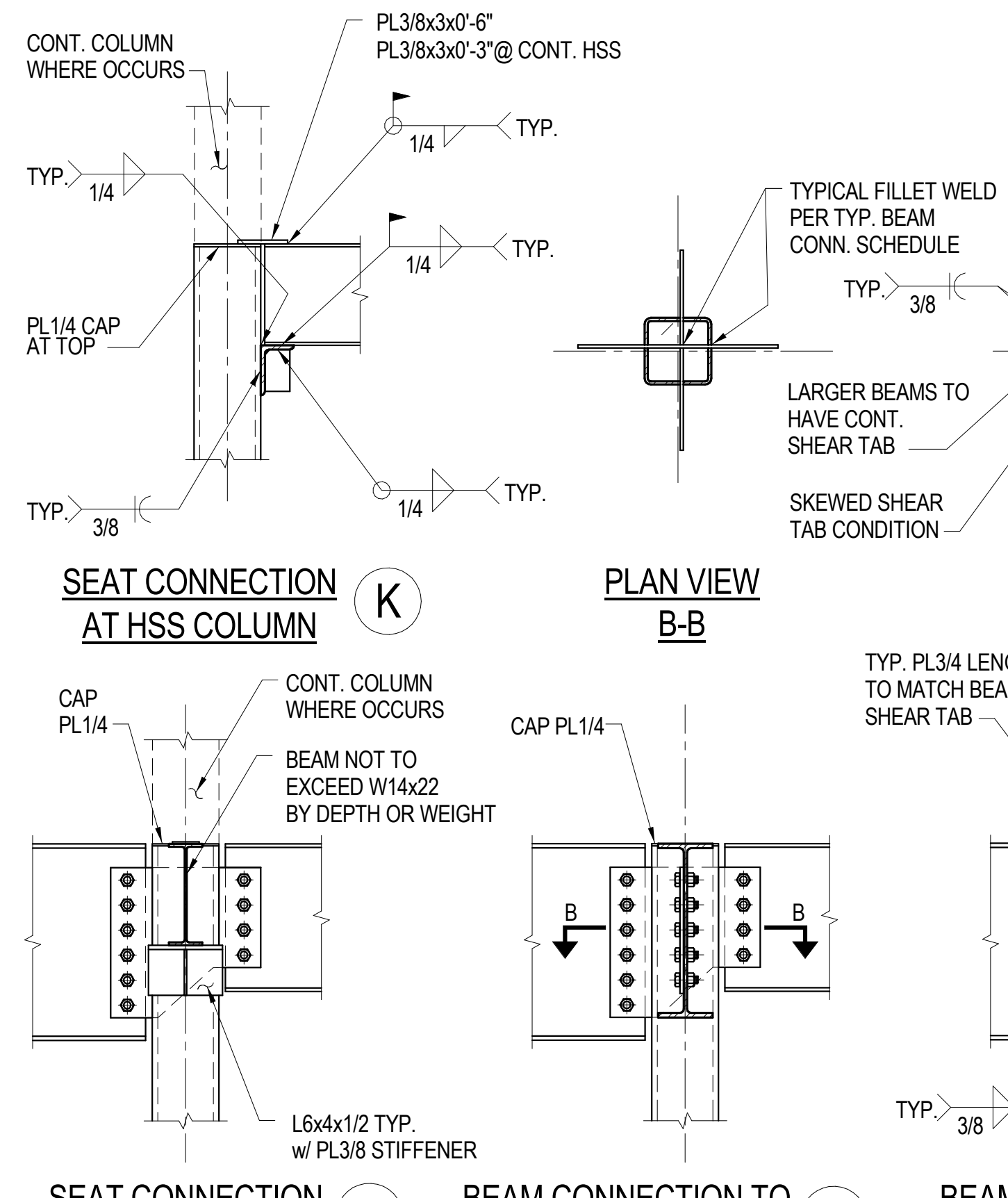


TYPICAL MOMENT CONNECTION BEAM TO BEAM **3**  
TSG103

TYPICAL OFFSET BEAM CONNECTION DETAIL **4**  
TSG111

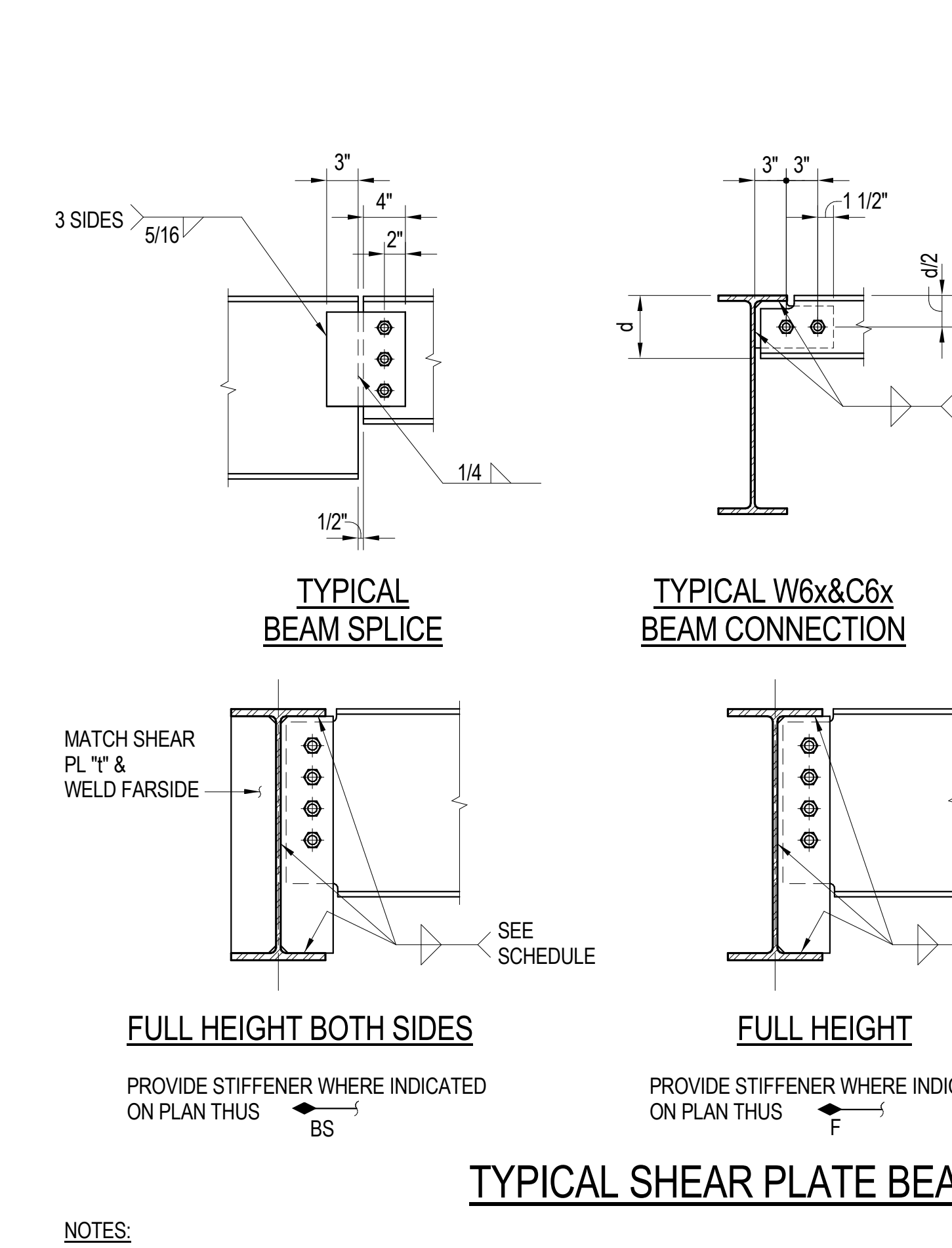


HSS4x4x HANGER **F** HSS6x6x HANGER **E**

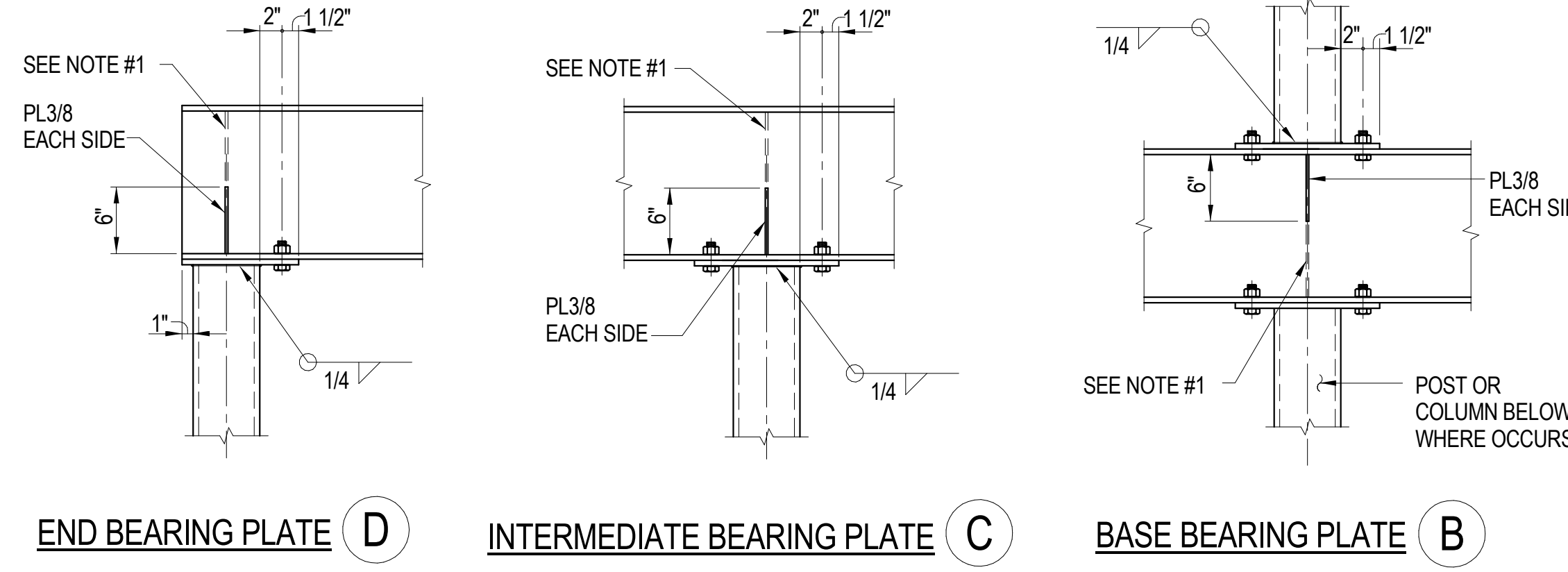


SEAT CONNECTION AT HSS COLUMN **K** SEAT CONNECTION AT HSS COLUMN **J** BEAM CONNECTION TO HSS OR PIPE COLUMN **H** BEAM CONNECTION TO CONTINUOUS HSS COLUMN **G**

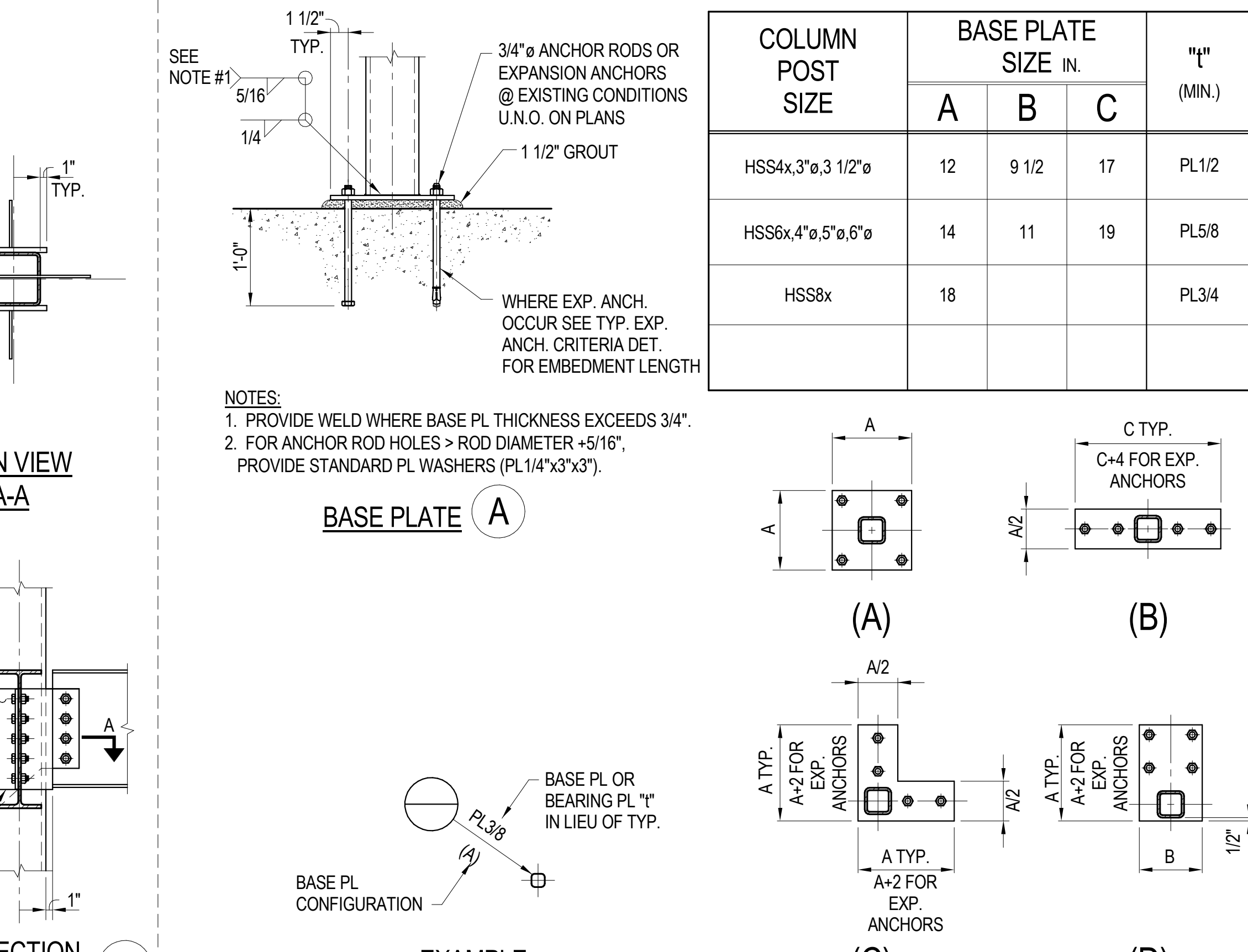
TYPICAL SHEAR PLATE BEAM STIFFENERS **9**



TYPICAL SHEAR PLATE BEAM STIFFENERS **9**



END BEARING PLATE **D** INTERMEDIATE BEARING PLATE **C** BASE BEARING PLATE **B**



TYPICAL PIPE AND HSS COLUMN AND HANGER DETAILS **2**  
TSG301

TYPICAL PIPE AND HSS COLUMN AND HANGER DETAILS **2**  
TSG301

BEAM SIZE	A325-N	SHEAR PLATE T	WELD BOTH SIDES	ASD AVAILABLE STRENGTH	LFRD AVAILABLE STRENGTH
W6x, C6x	(2)3/4"	3/8	5/16	4.9k	7.4k
W8x, W10x C8x, C10x	(2)3/4"	3/8	5/16	8.8k	13.1k
W12x, W14x C12x	(3)7/8"	3/8	5/16	23.9k	35.8k
W16x, W18x	(4)7/8"	3/8	5/16	45.5k	68.3k
W21x	(5)7/8"	3/8	5/16	63.2k	94.8k
W24x	(6)7/8"	3/8	5/16	80.7k	121.0k
W27x	(7)7/8"	1/2	5/16	98.2k	147.3k
W30x	(8)7/8"	1/2	5/16	115.3k	173.0k
W33x	(9)7/8"	1/2	5/16	132.4k	198.5k
W36x	(10)1"	1/2	5/16	166.7k	250.0k

TYPICAL BEAM CONNECTION SCHEDULE **1**  
TSG101

**WILLIAM HEZMALHALCH ARCHITECTS INC.**  
2850 REDHILL AVENUE, SUITE 200, SANTA ANA, CA 92705-5943  
949.250.6007 www.hezmalhalch.com fax 949.250.1529  
6111 BOLLINGER CANYON ROAD, SUITE 405, SAN RAMON, CA 94583-9186  
925.463.1700 fax 925.463.1725



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STRUCTURAL ENGINEERS  
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Suite 125  
Santa Ana, CA 92704  
714.557.8551 T  
714.557.8551 F  
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REVISIONS		
NO.	DATE	DESCRIPTION
1	07/14/17	3RD PLAN CHECK SUBMITTAL

TYPICAL STEEL DETAILS

SHEET SCALE:	As Indicated
PROJECT MANAGER:	MH
DESIGNER:	JN
DRAWN BY:	FS
REVIEWED BY:	
1st DEPT. SUBMITTAL:	XX/2016
ISSUED FOR CONST.:	
JOB NUMBER:	16-5003
CAD FILE NAME:	



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 925 463 1700 fax 925 463 1725



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 92704  
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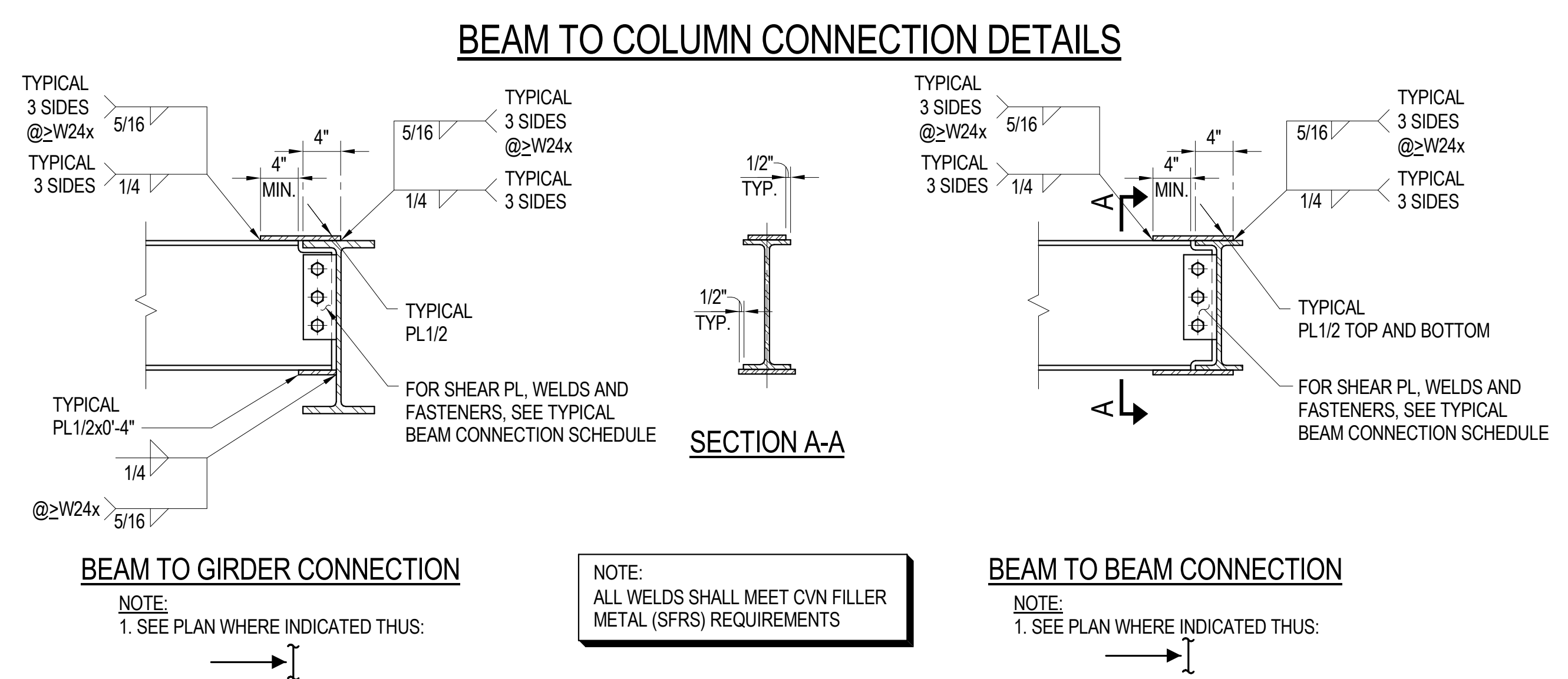
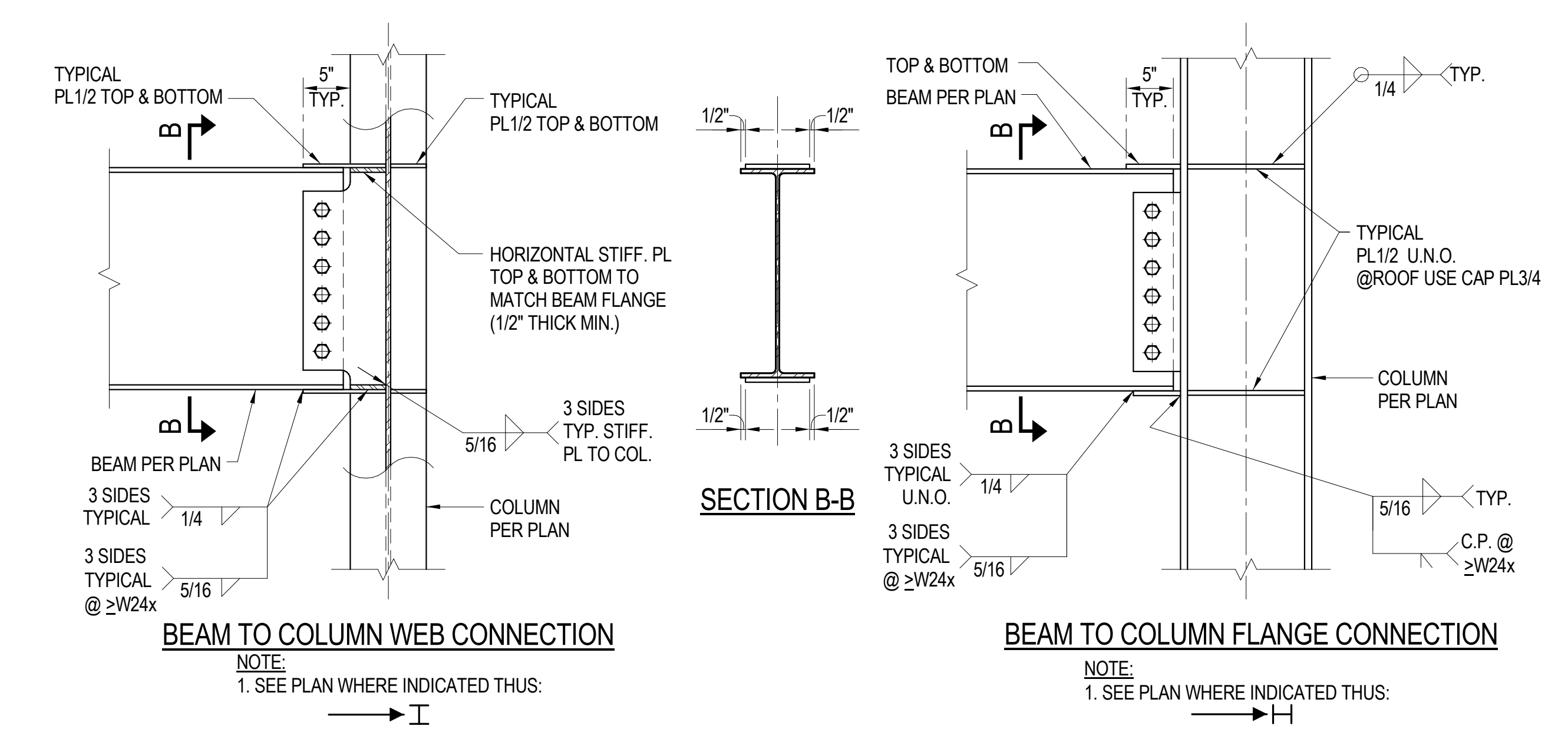
REVISIONS		
NO.	DATE	DESCRIPTION
07/14/17	3RD PLAN CHECK SUBMITTAL	

TYPICAL STEEL DETAILS	
SHEET SCALE:	As Indicated
PROJECT MANAGER:	MH
DESIGNER:	JN
DRAWN BY:	FS
REVIEWED BY:	
1st DEPT. SUBMITTAL:	XX/2016
ISSUED FOR CONST.:	
JOB NUMBER	16-5003
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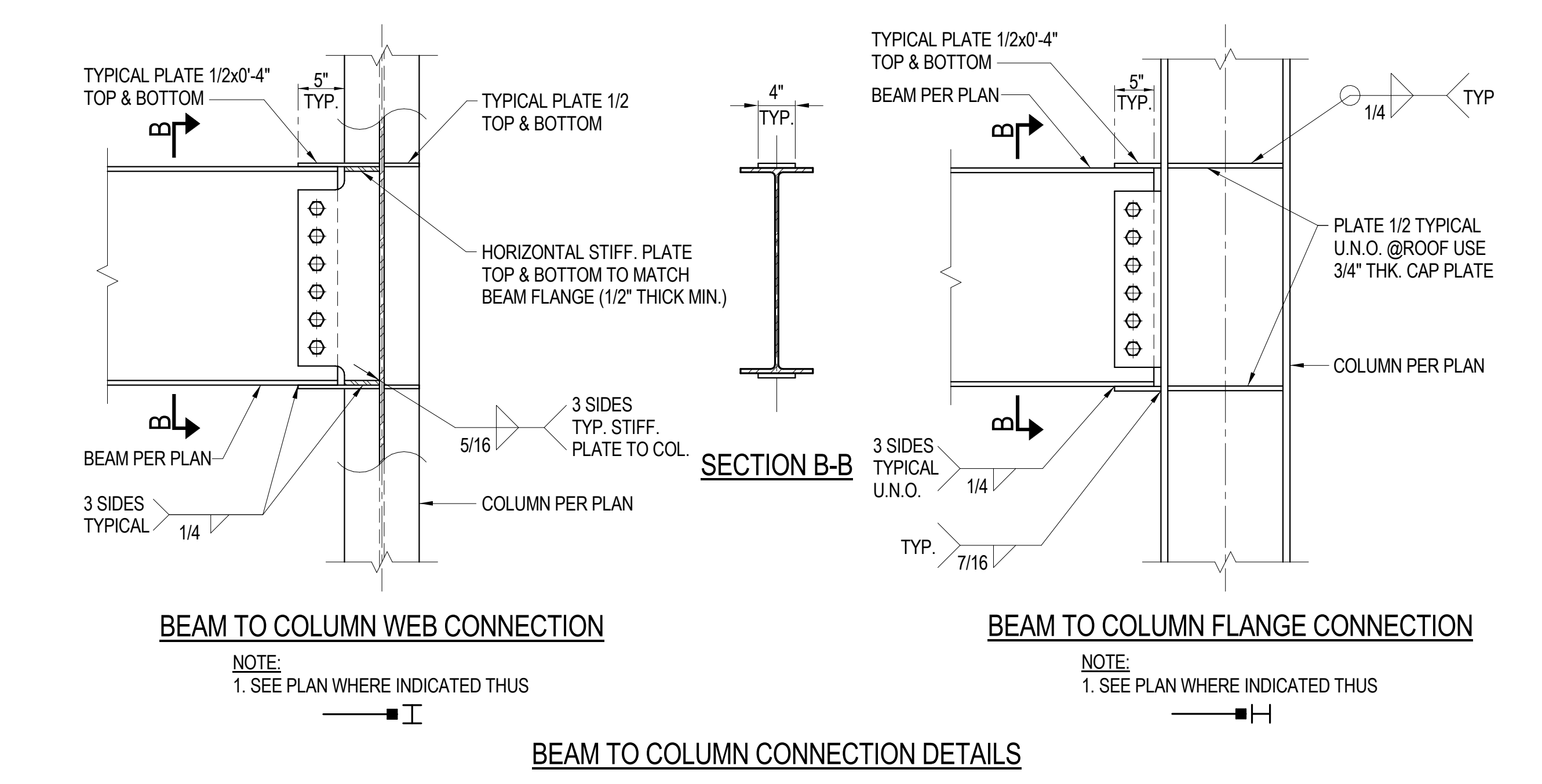
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2ND BUILDING PLAN CHECK COORDINATION 05.18.2017

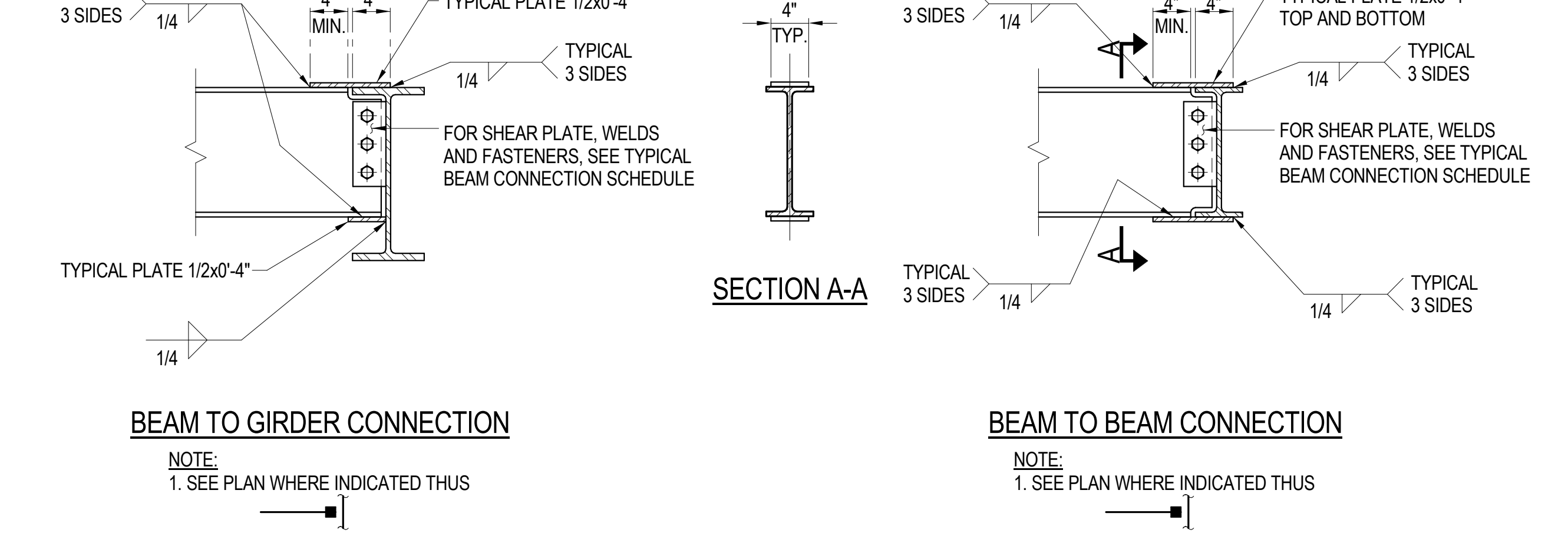


**BEAM TO COLUMN CONNECTION DETAILS**

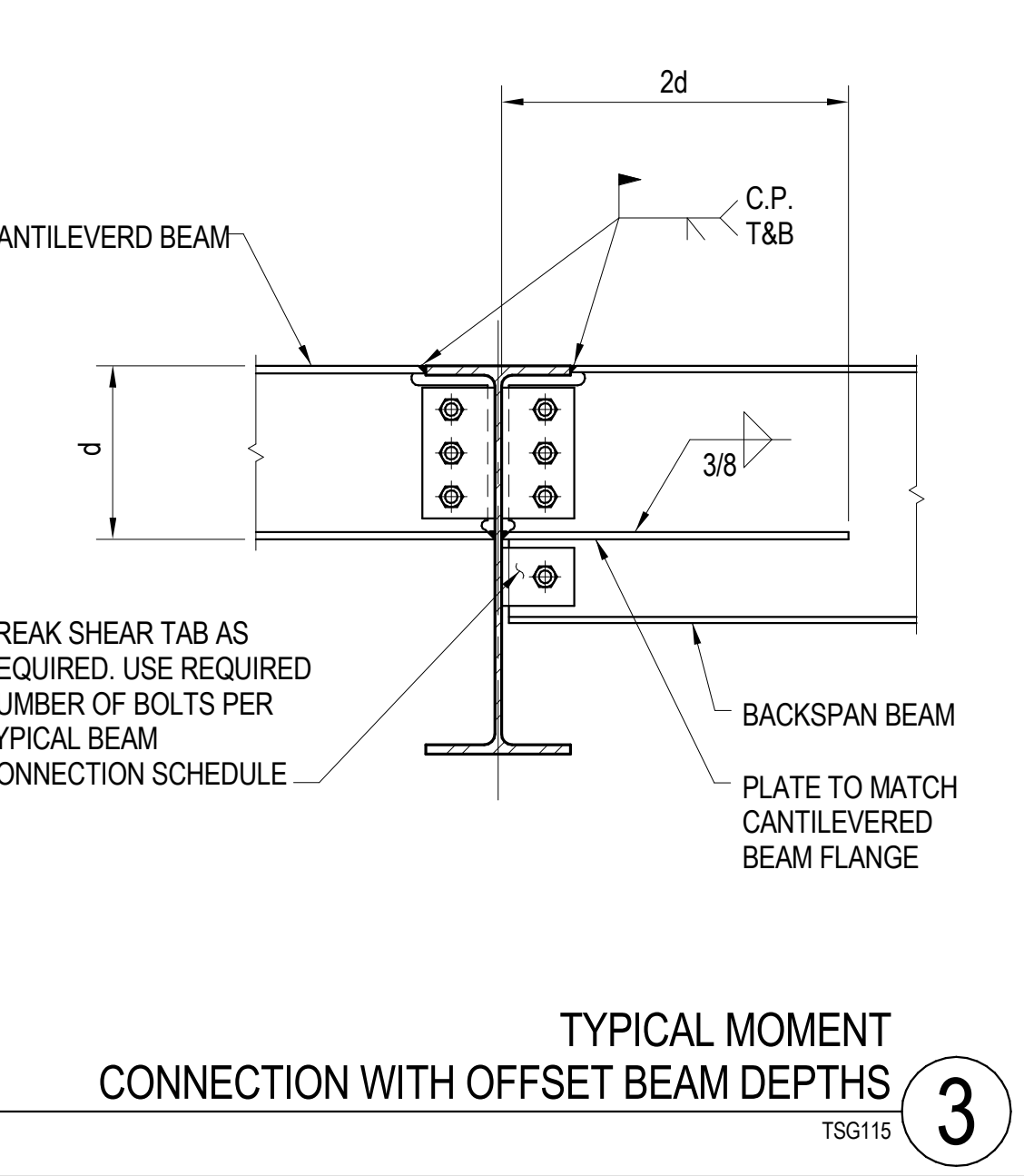
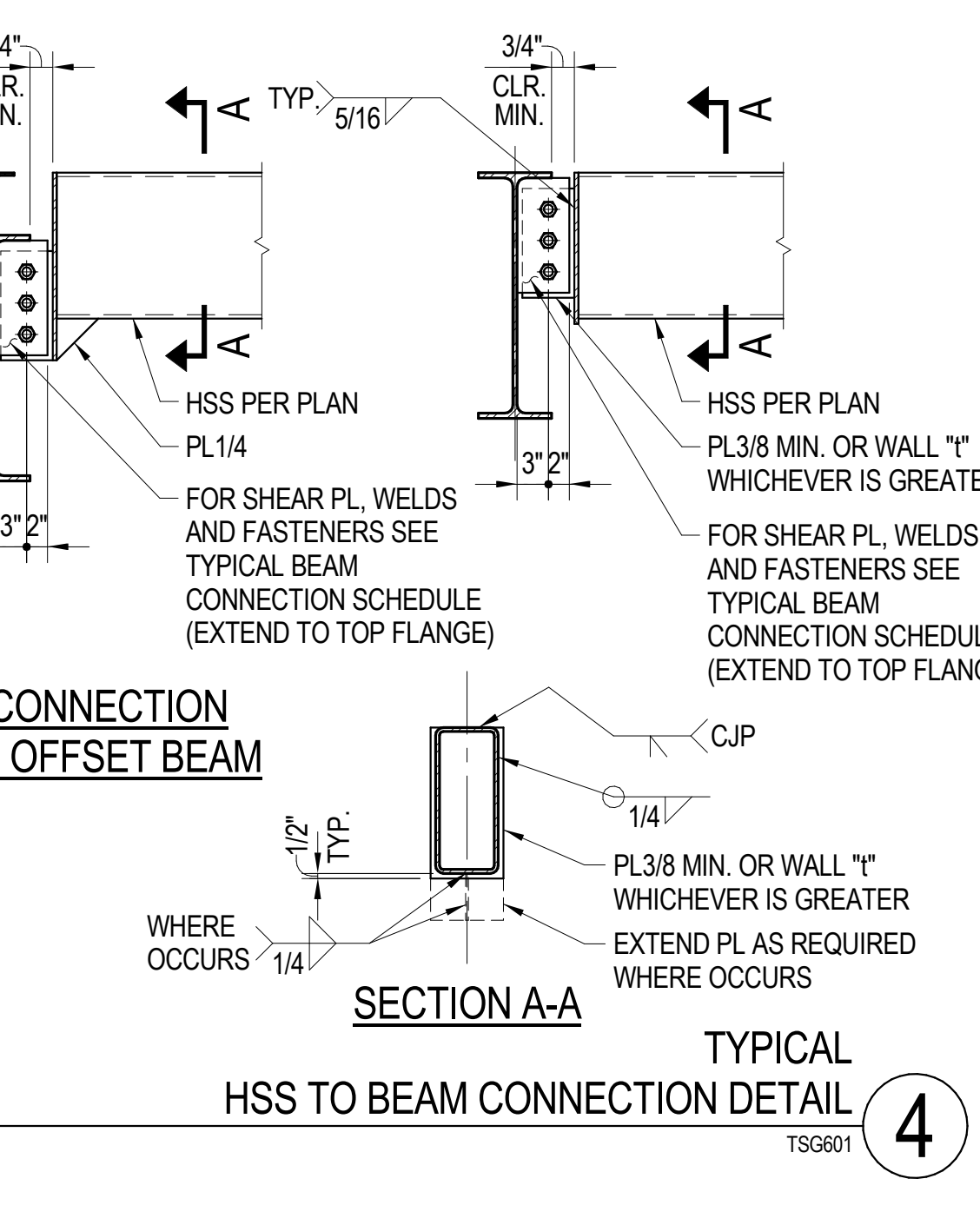
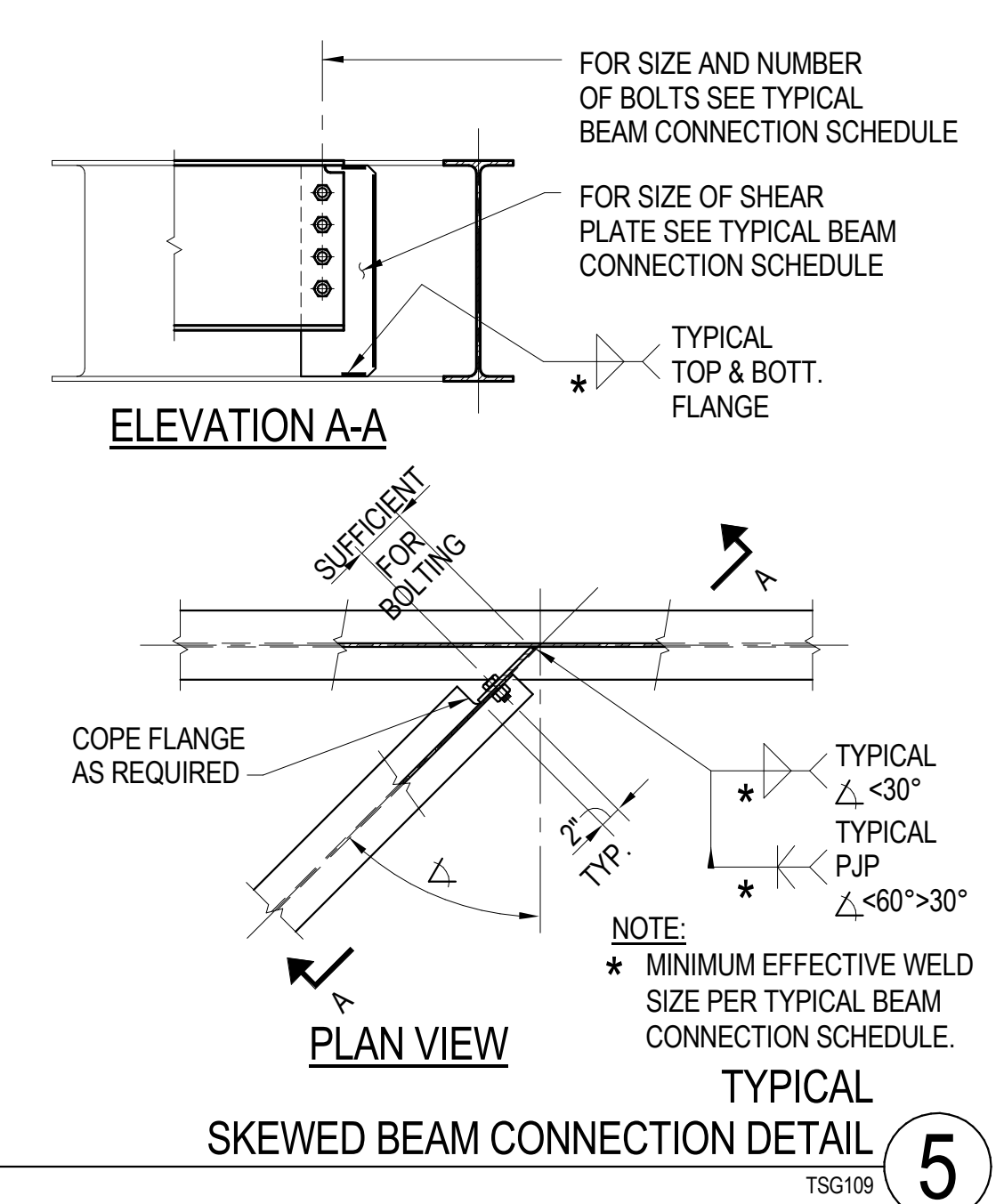
**BEAM TO BEAM CONNECTION DETAILS**



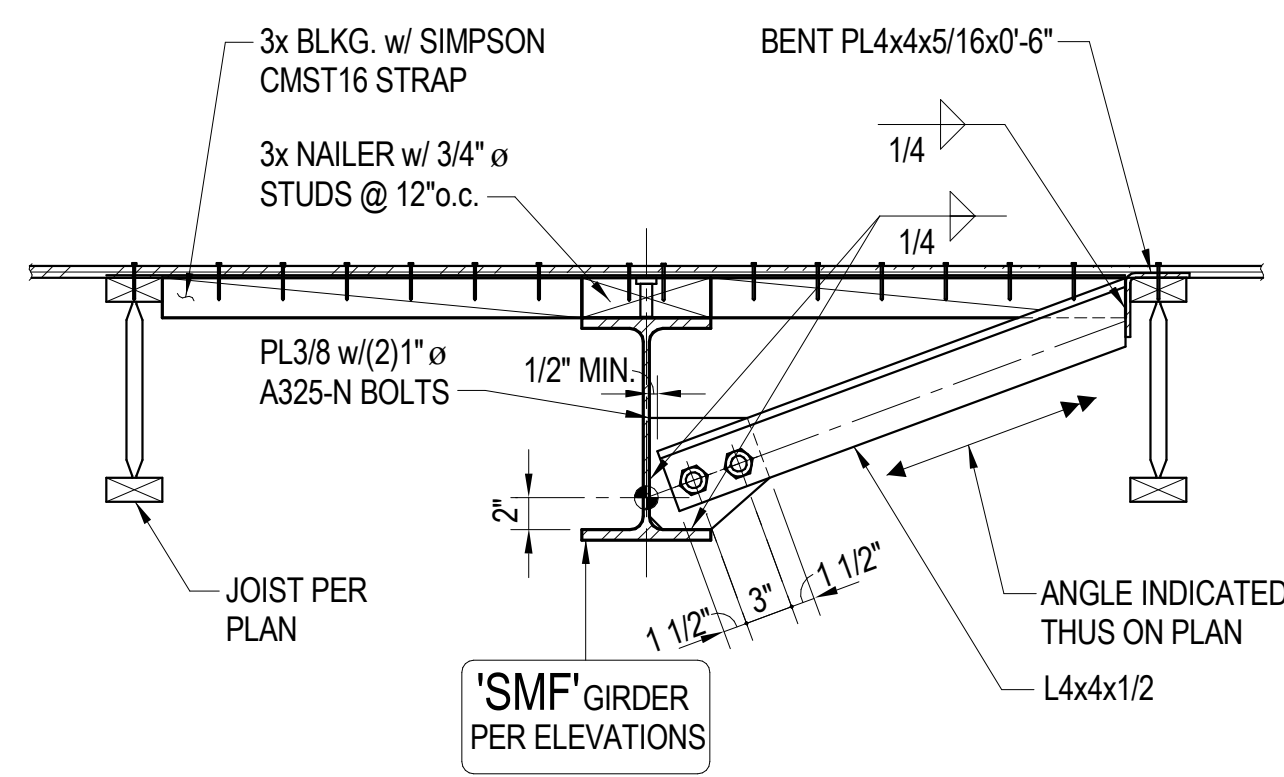
**BEAM TO COLUMN CONNECTION DETAILS**



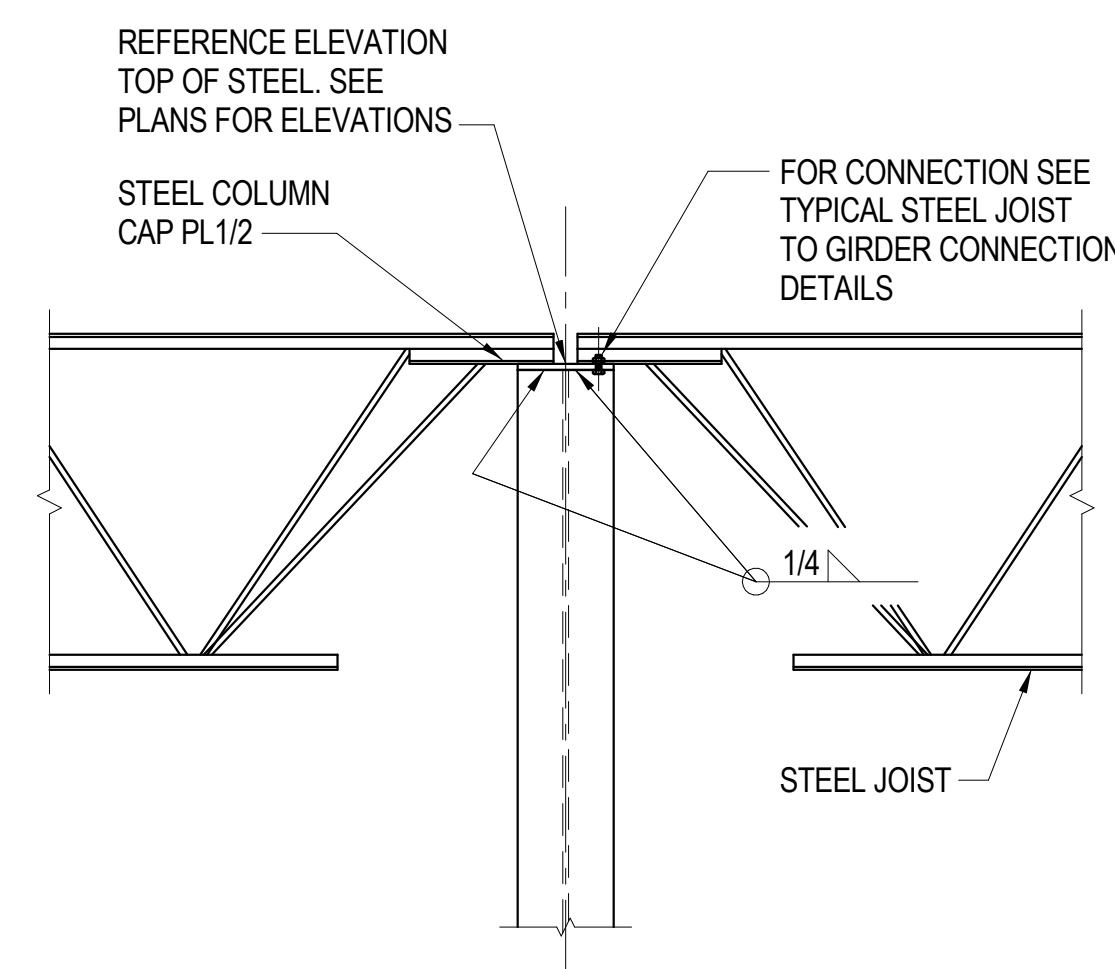
**BEAM TO BEAM CONNECTION DETAILS**



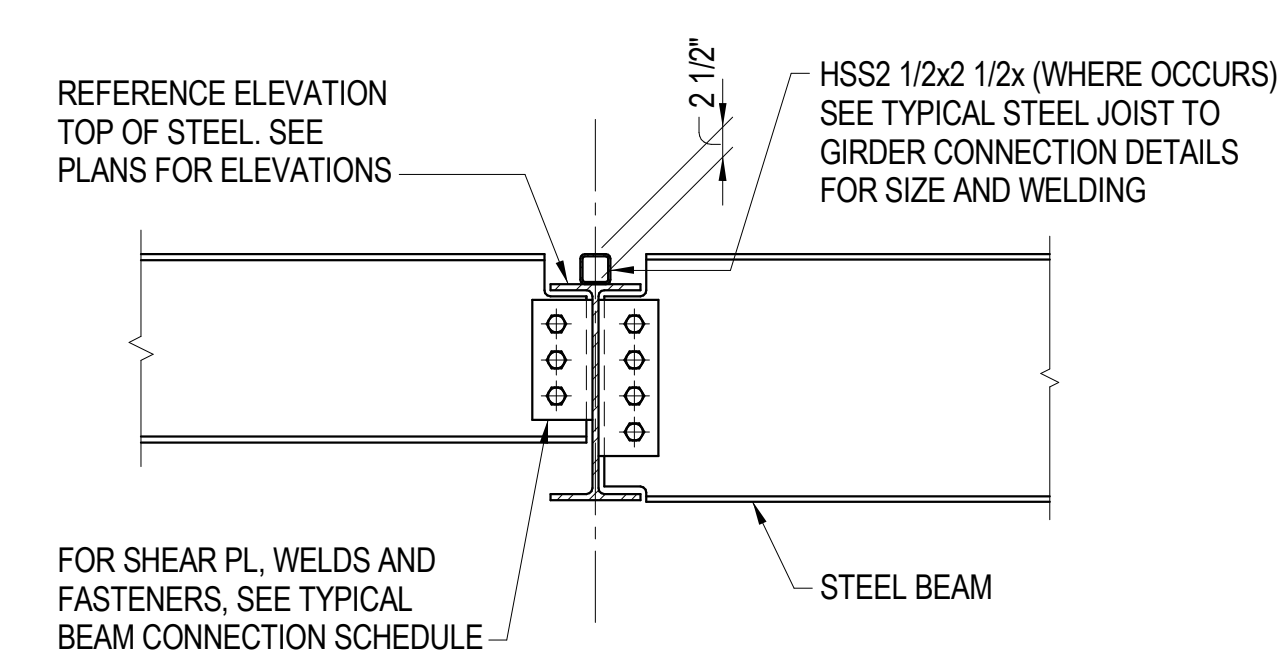
2ND BUILDING PLAN CHECK COORDINATION 05.18.2017



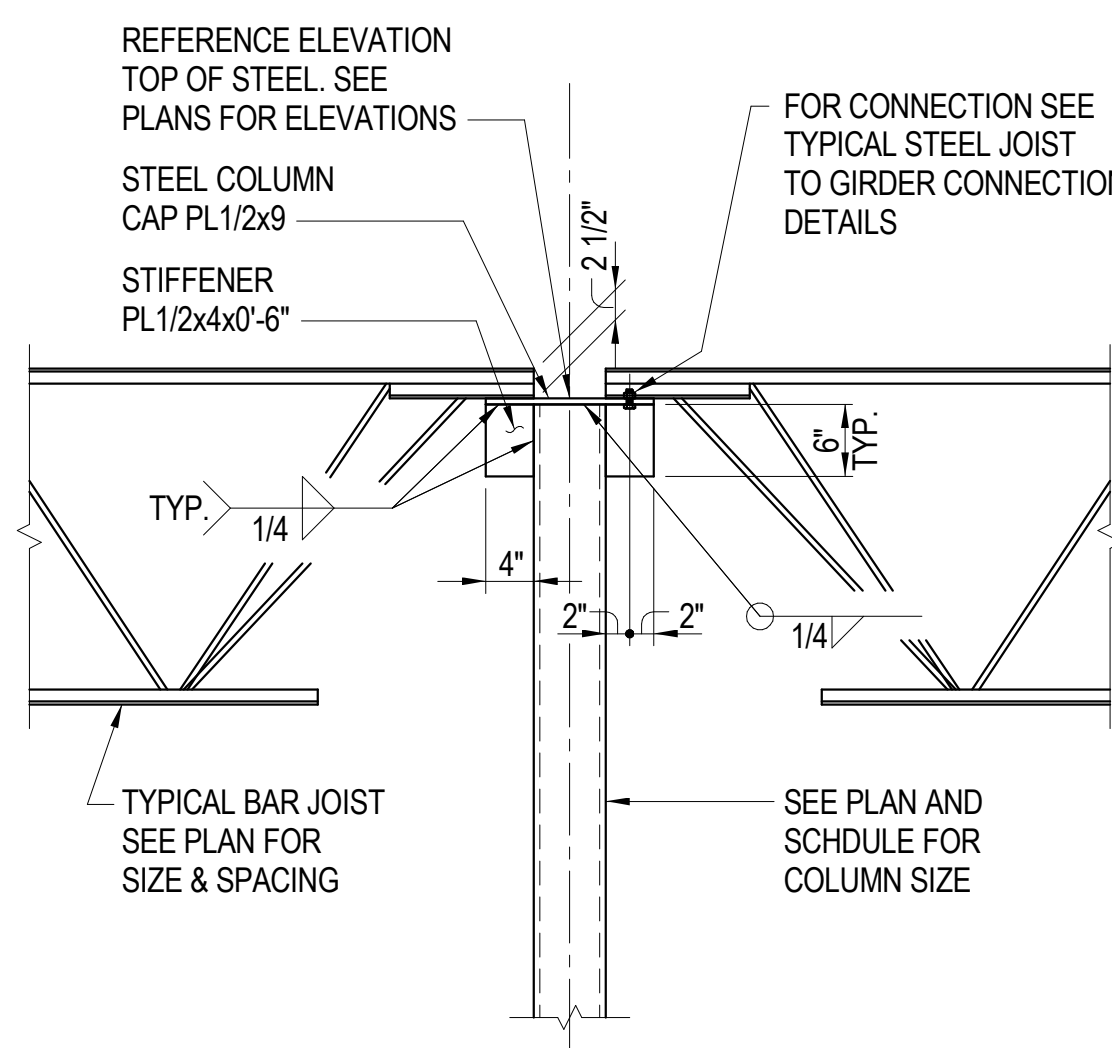
TYPICAL 'SMF' BEAM BRACE DETAIL  
1"=1'-0" 10



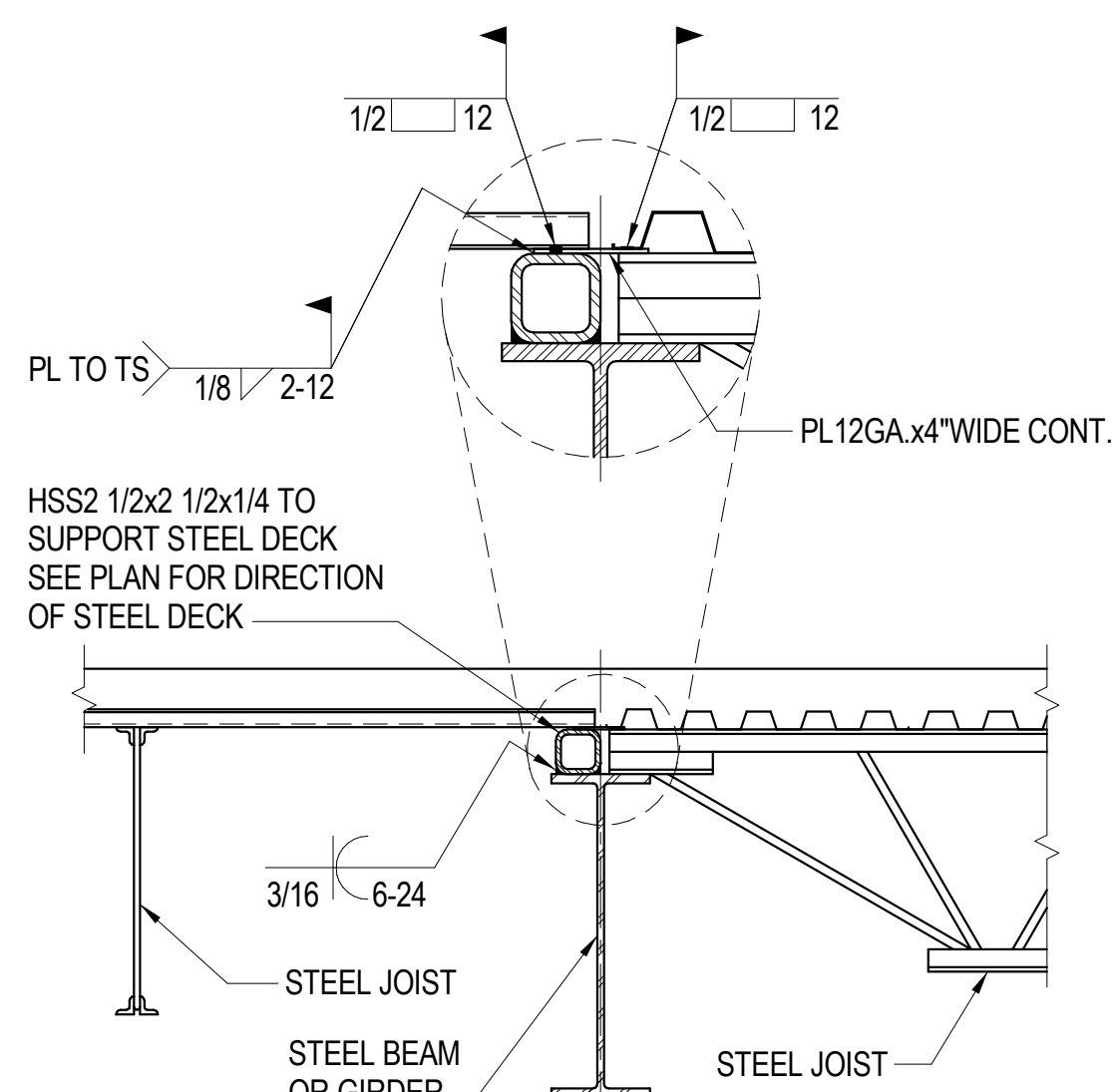
TYPICAL STEEL JOIST AT TOP OF COLUMN CONNECTION DETAIL  
TSG406 6



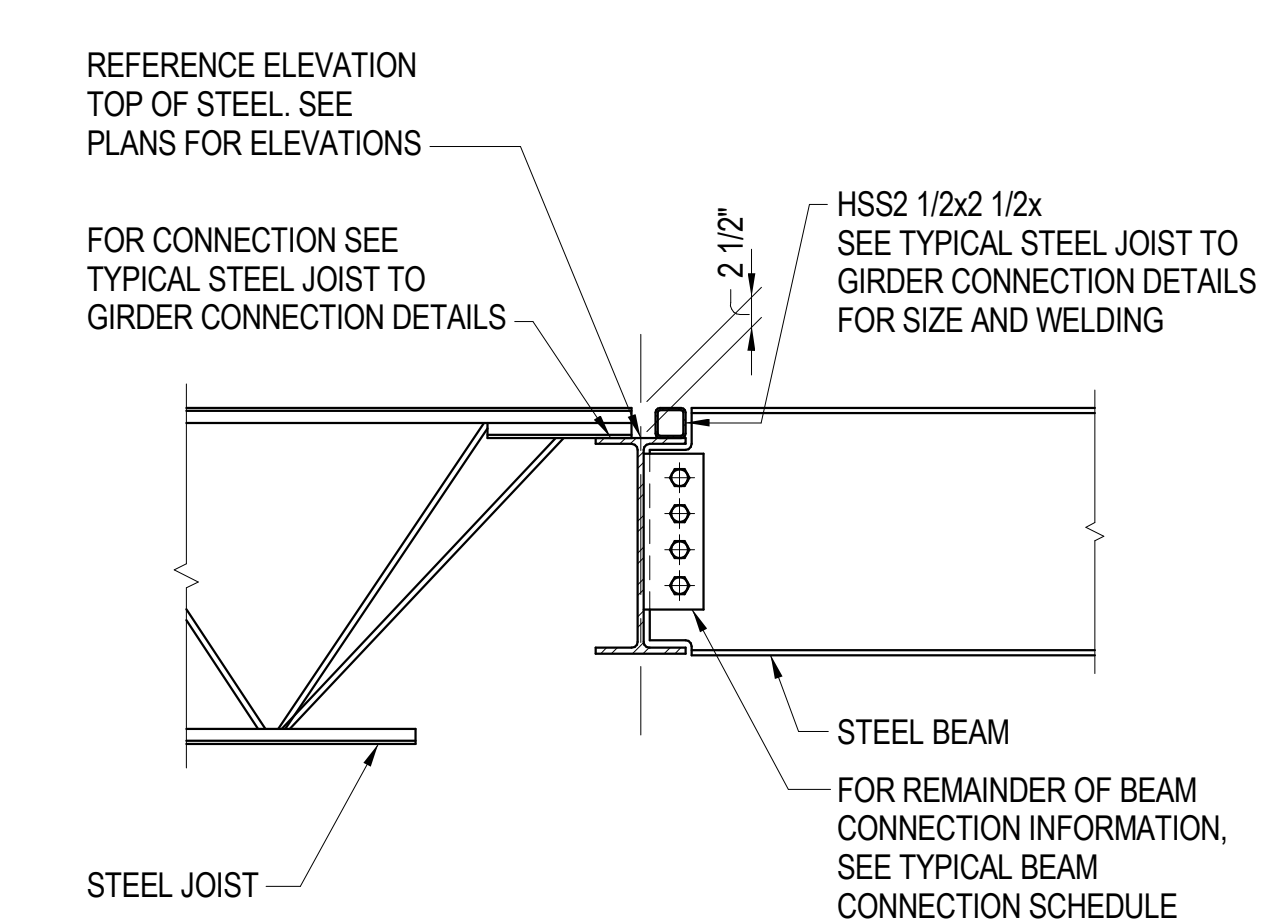
TYPICAL BEAM CONNECTION DETAIL  
TSG404 4



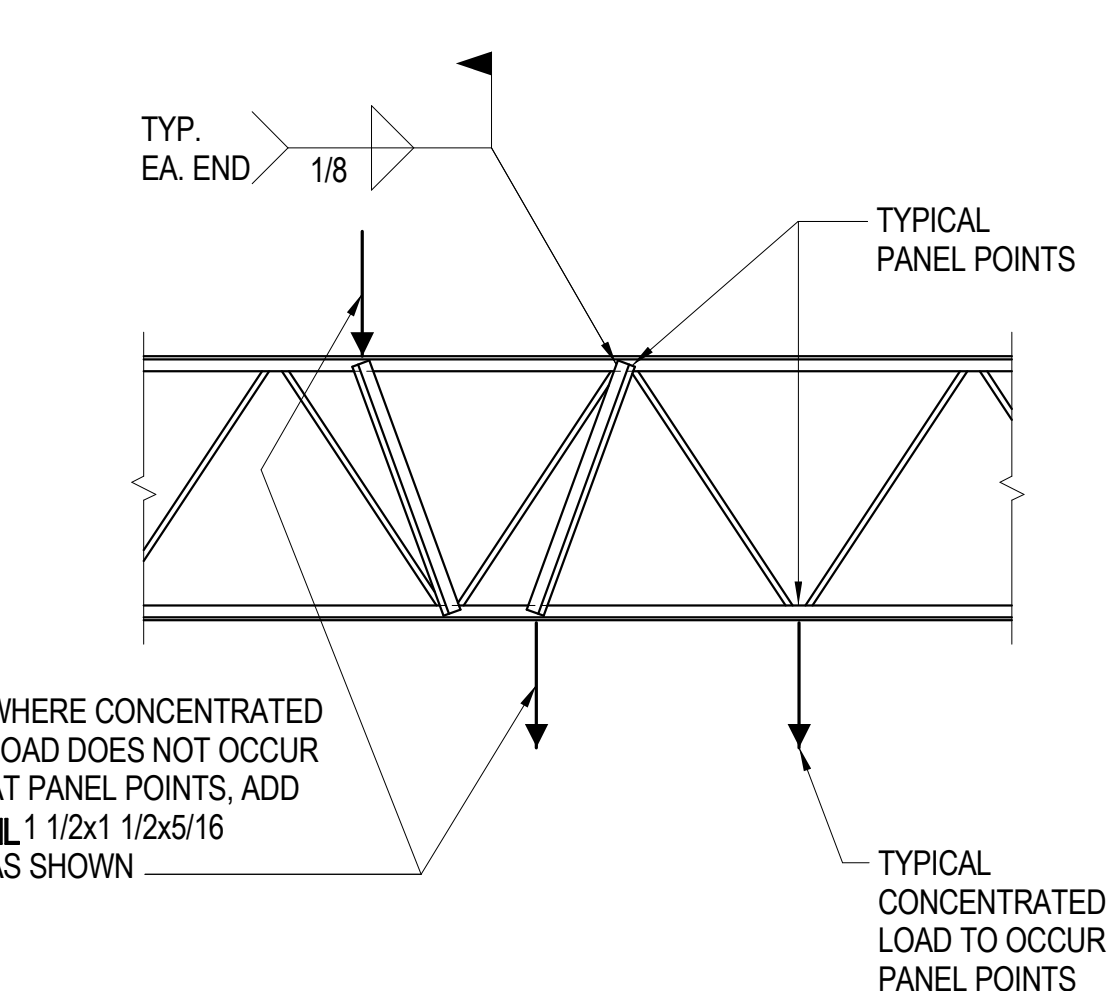
TYPICAL BAR JOIST AT TOP OF COLUMN CONNECTION DETAIL  
TSG408 9



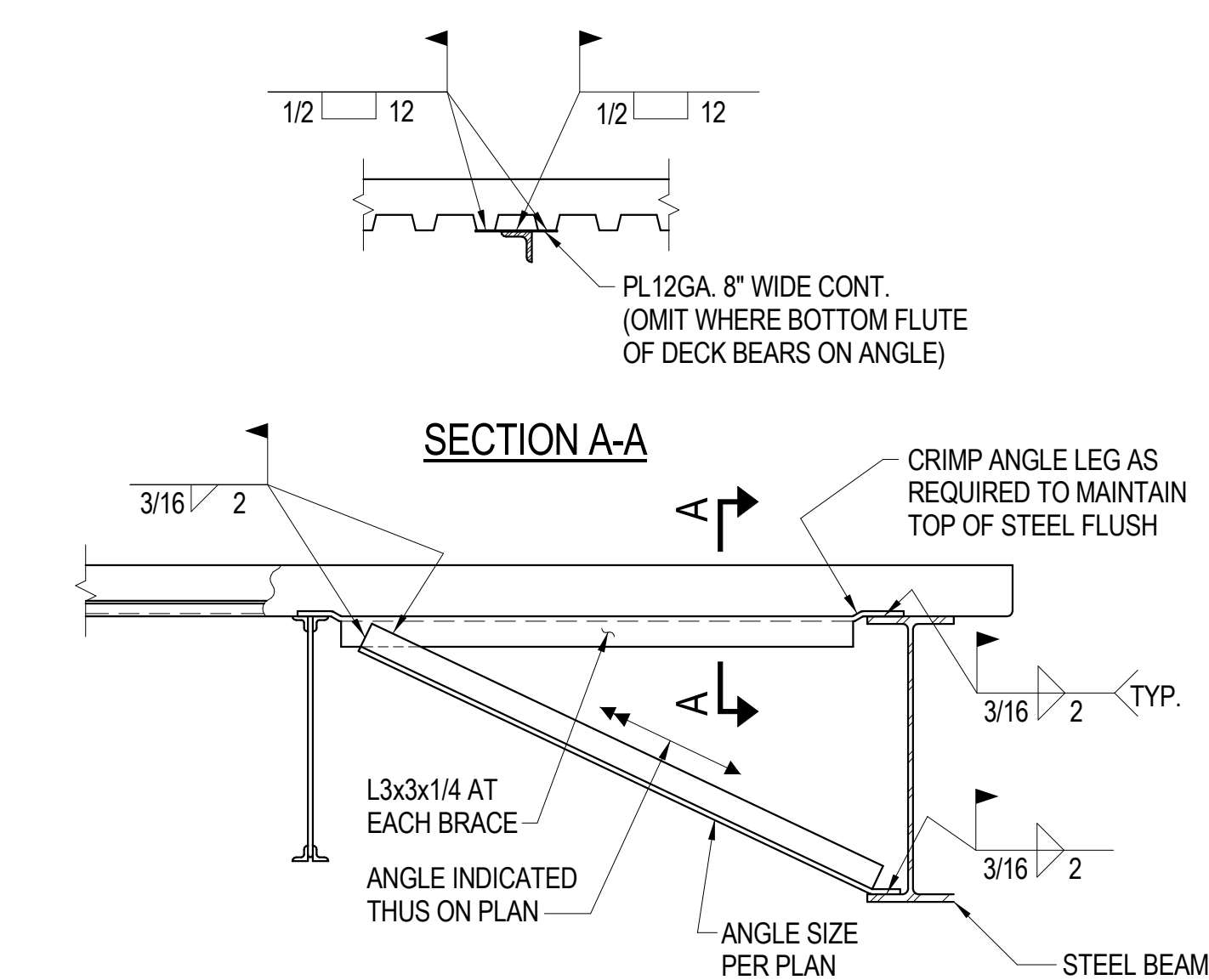
TYPICAL DECK SUPPORT AT INTERIOR STEEL BEAM DETAIL  
TSG406 5



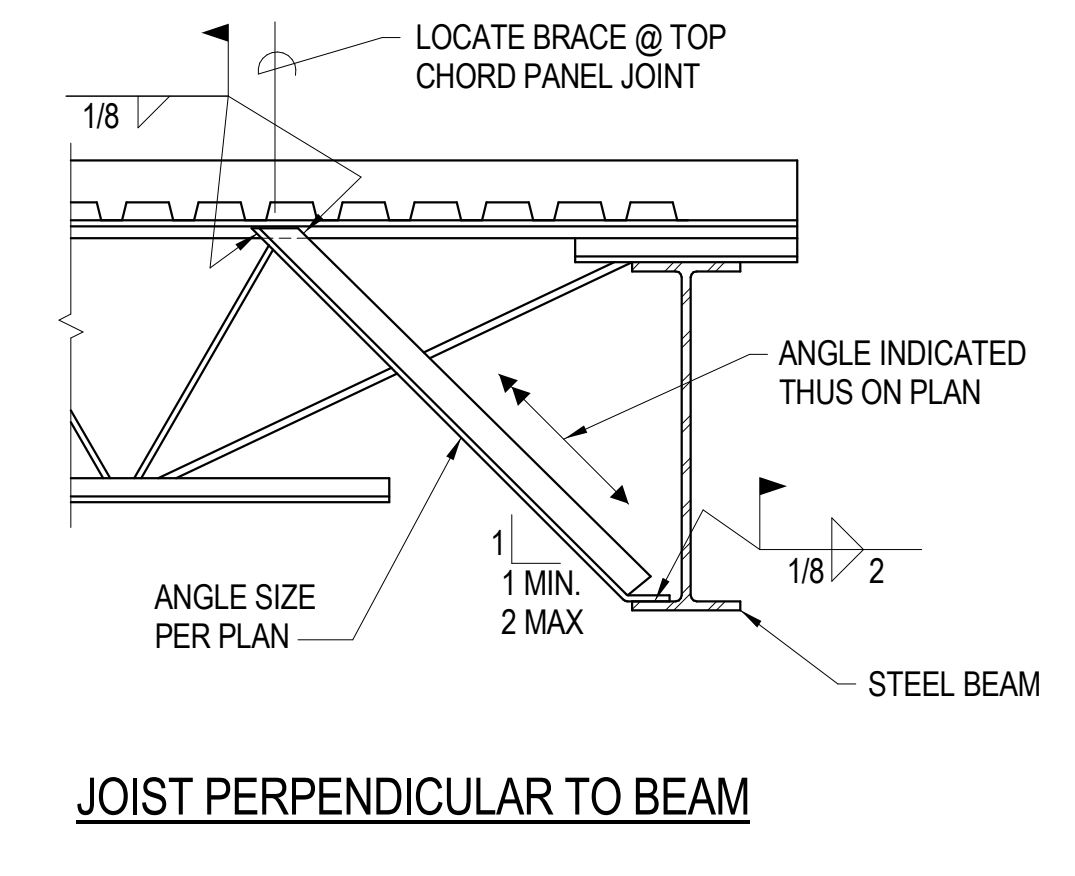
TYPICAL BEAM AND STEEL JOIST CONNECTION DETAIL  
TSG403 3



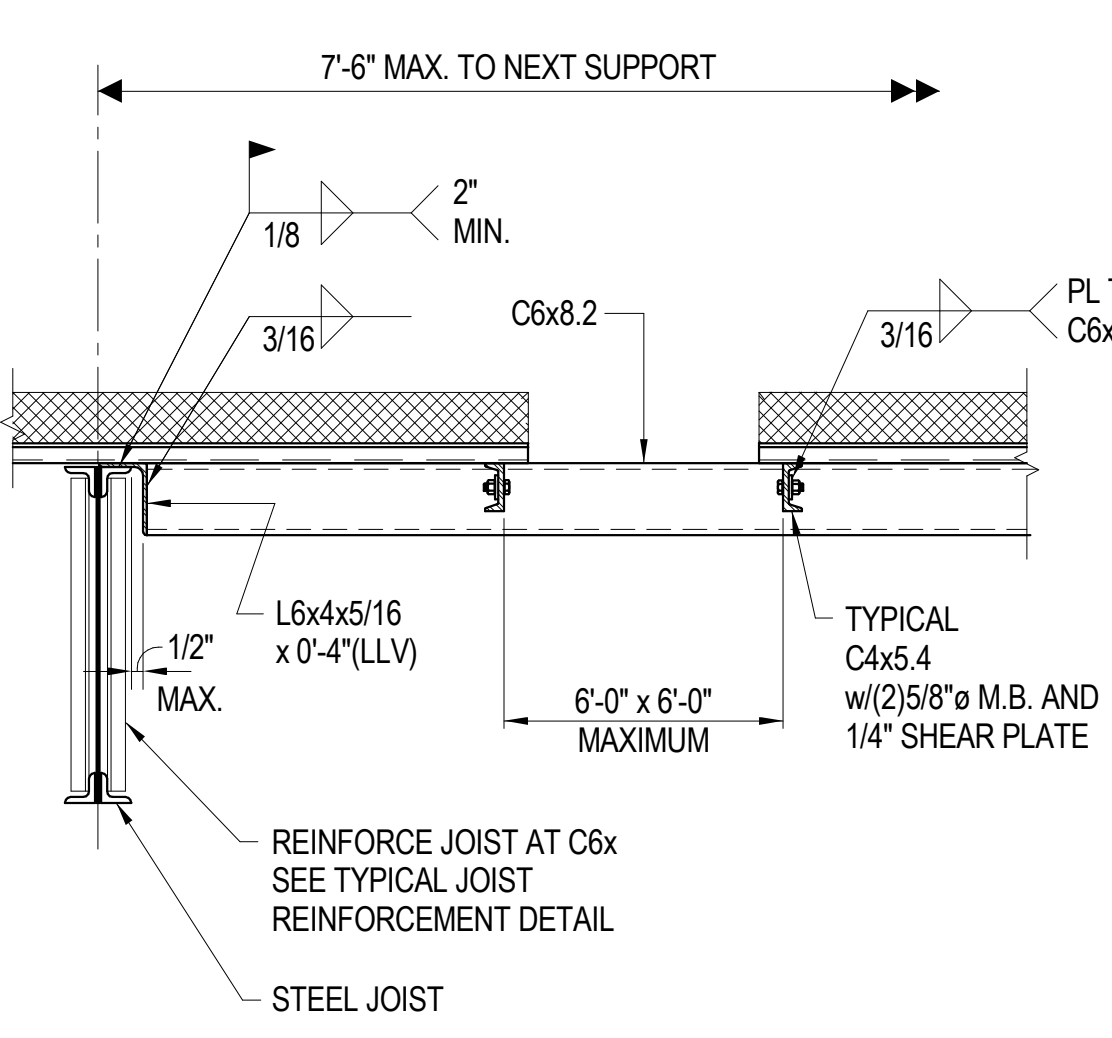
TYPICAL JOIST REINFORCEMENT DETAIL  
TSG408 8



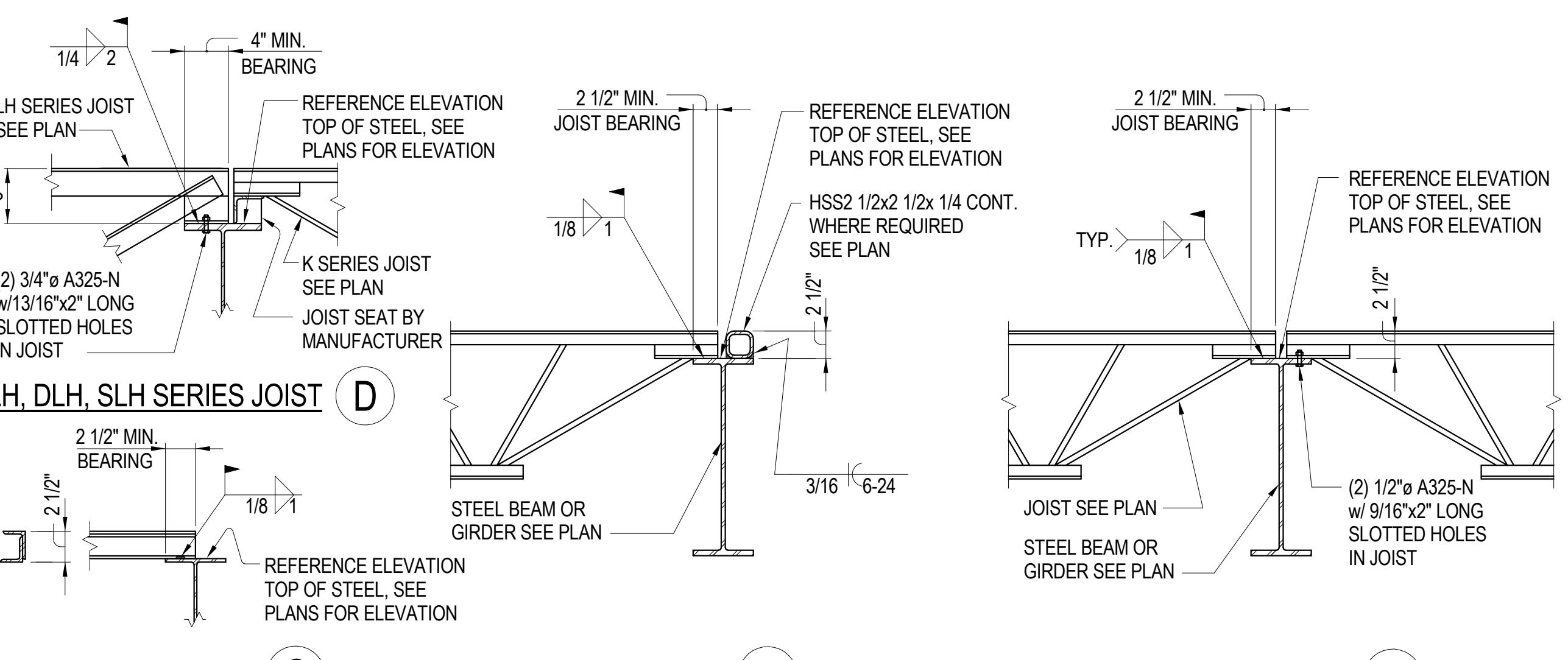
TYPICAL ANGLE BRACE TO STEEL JOIST DETAIL  
TSG402 MOD. 2



JOIST PERPENDICULAR TO BEAM

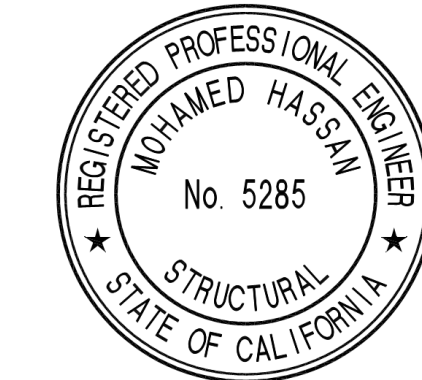


TYPICAL OPENING THRU ROOF DETAIL  
TSG407 7



TYPICAL STEEL JOIST TO GIRDER CONNECTION DETAILS  
TSG401 1

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2850 REDHILL AVENUE, SUITE 200, SANTA ANA, CA 92705-5943  
949 250 9207 www.hezmalhalch.com fax 949 250 1529  
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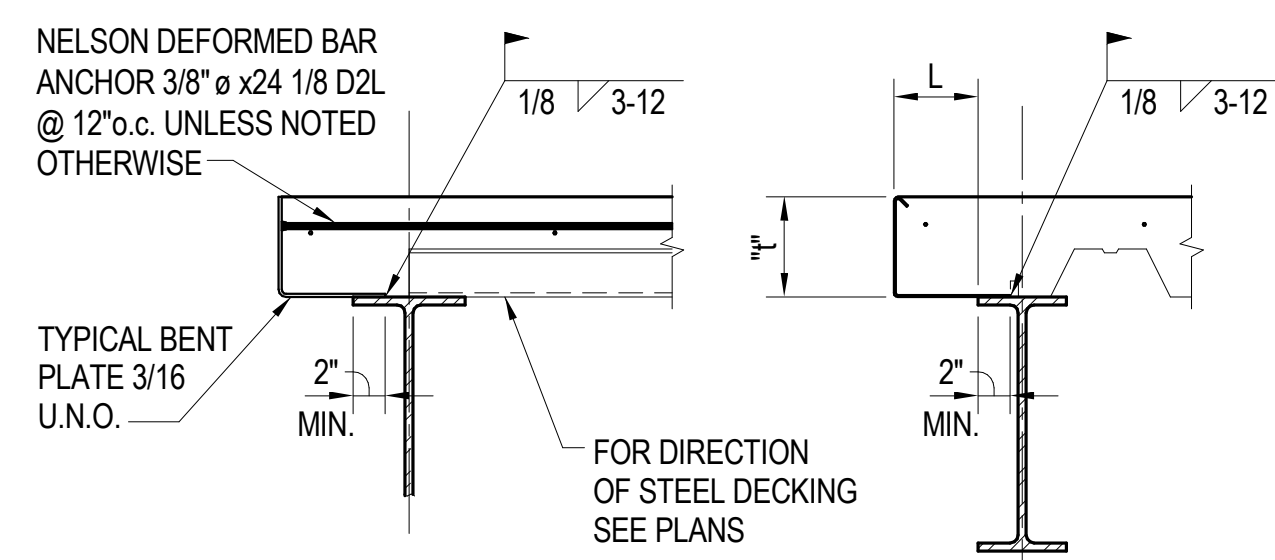
REVISIONS		
NO.	DATE	DESCRIPTION
1	05/18/17	2ND PLAN CHECK SUBMITTAL
	07/14/17	3RD PLAN CHECK SUBMITTAL

TYPICAL STEEL DETAILS

SHEET SCALE:	As Indicated
PROJECT MANAGER:	MH
DESIGNER:	JN
DRAWN BY:	FS
REVIEWED BY:	
1st DEPT. SUBMITTAL:	XX/2016
ISSUED FOR CONST.:	
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CAD FILE NAME:	

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2ND BUILDING PLAN CHECK COORDINATION 05.18.2017



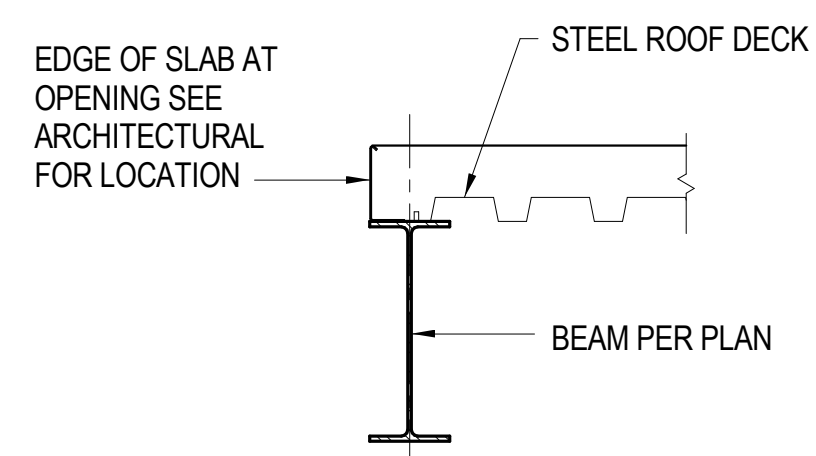
POURSTOP AT BUILDING PERIMETER (B) TYPICAL POURSTOP (A)

LENGTH OF POURSTOP (L)						
SLAB THICKNESS "t"	≤ 2"	≤ 4"	≤ 6"	≤ 8"	≤ 10"	≤ 12"
4" HARDROCK CONCRETE	18GA.	18GA.	14GA.	12GA.	10GA.	PLATE 3/16
5 1/2" HARDROCK CONCRETE	18GA.	16GA.	14GA.	12GA.	PLATE 3/16	PLATE 3/16
6" HARDROCK CONCRETE	18GA.	16GA.	14GA.	12GA.	PLATE 3/16	PLATE 3/16
7 1/2" HARDROCK CONCRETE	18GA.	16GA.	12GA.	10GA.	PLATE 3/16	PLATE 1/4
4 3/4" LIGHTWEIGHT CONCRETE	18GA.	18GA.	14GA.	12GA.	10GA.	PLATE 3/16
6 1/4" LIGHTWEIGHT CONCRETE	18GA.	16GA.	14GA.	12GA.	PLATE 3/16	PLATE 3/16

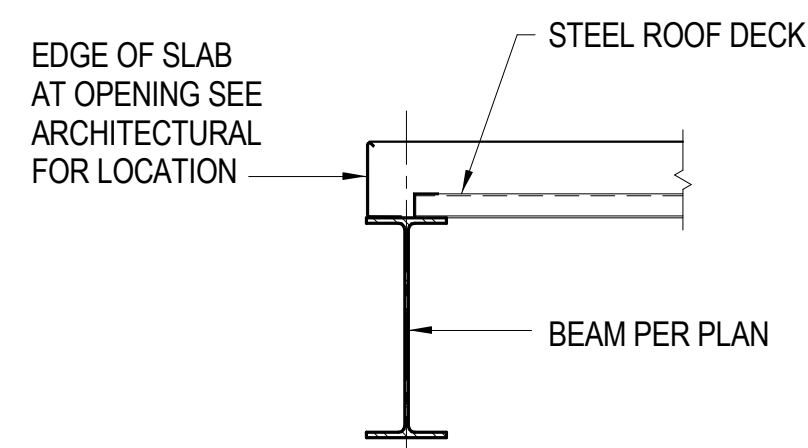
NOTE:

1. PROVIDE POURSTOPS AS INDICATED IN THE SCHEDULE AND USE DETAIL A UNLESS NOTED OTHERWISE.
2. FOR ALL BUILDING PERIMETER CONDITIONS USE DETAIL B UNLESS NOTED OTHERWISE.

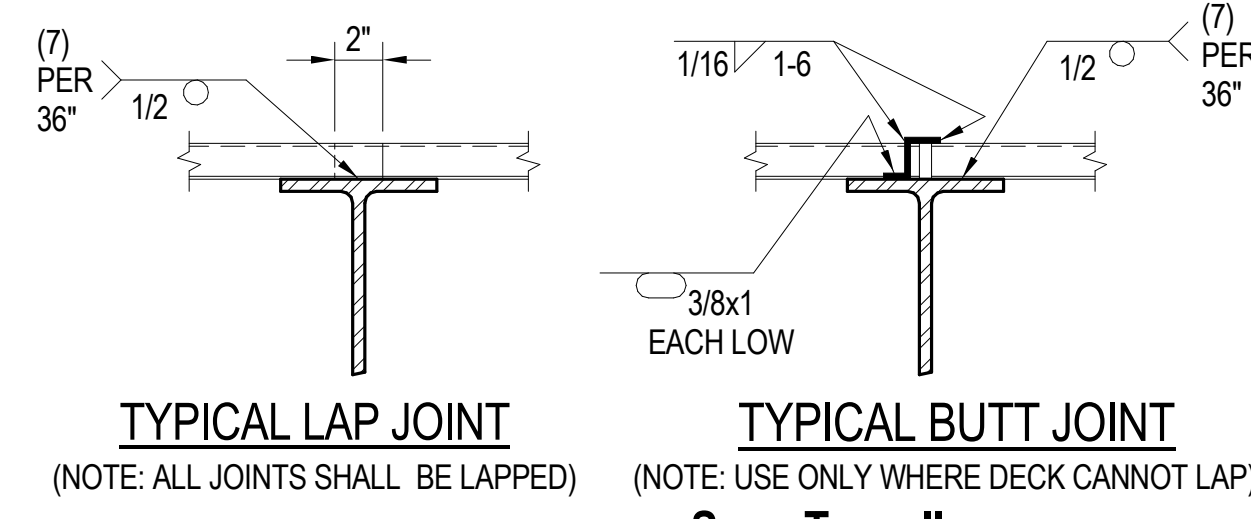
TYPICAL CONCRETE SLAB POURSTOP SCHEDULE (11)



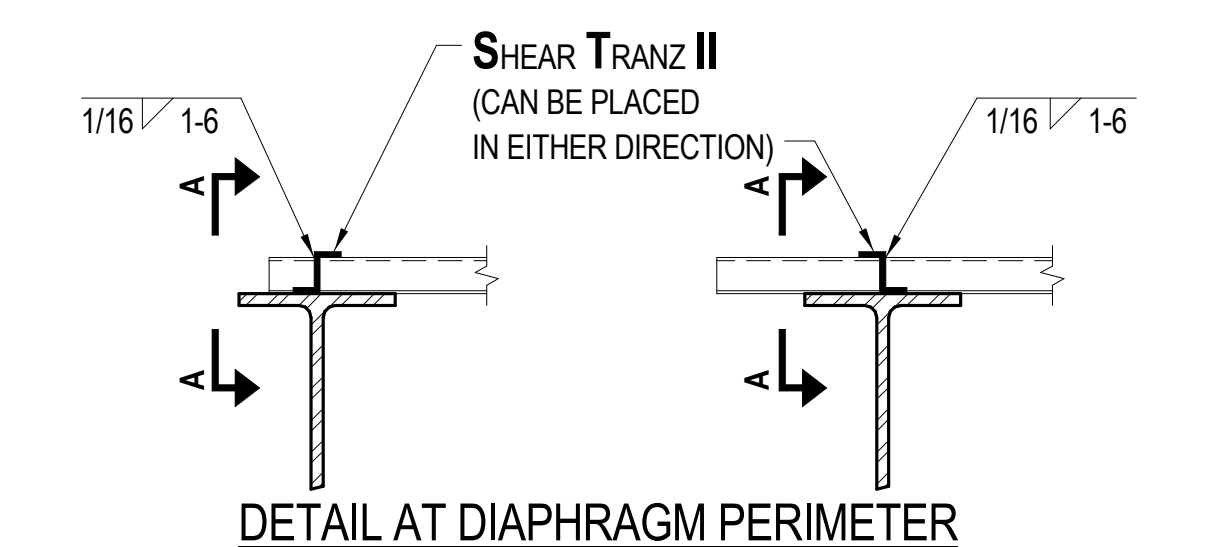
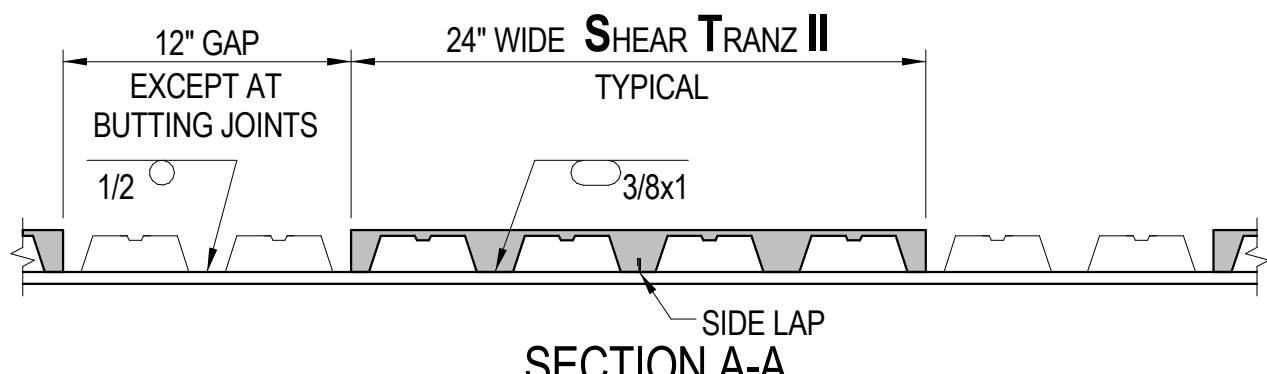
STEEL DECK PARALLEL TO BEAM AT ROOF (NO CONCRETE)



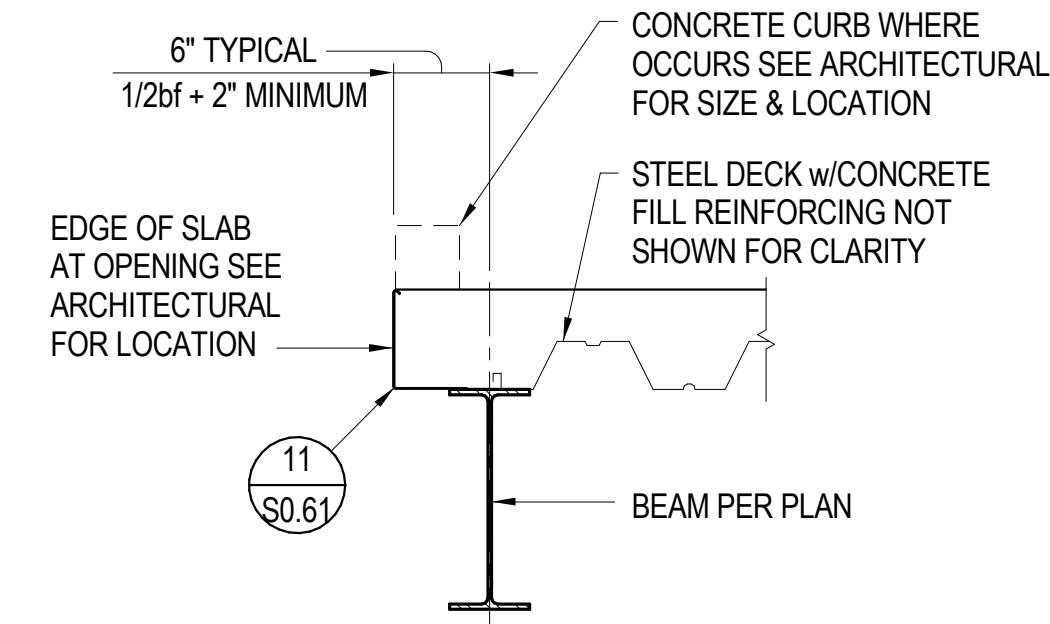
STEEL DECK PERPENDICULAR TO BEAM AT ROOF (NO CONCRETE)



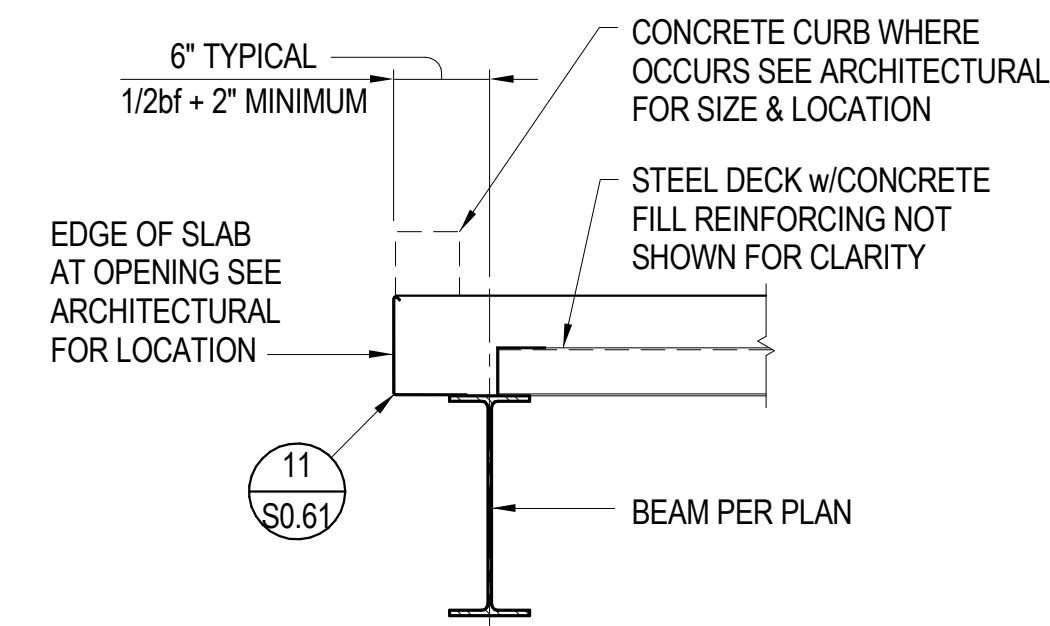
TYPICAL LAP JOINT (NOTE: ALL JOINTS SHALL BE LAPPED) TYPICAL BUTT JOINT (NOTE: USE ONLY WHERE DECK CANNOT LAP) SHEAR TRANZ II TO BE CONTINUOUS AT BUTT JOINTS BY INSTALLING A 12" UNIT BETWEEN THE 24" UNITS.



DETAIL AT DIAPHRAGM PERIMETER (HSB-36 DECK CAN CANTILEVER OR STOP AT BEAM) TYPICAL SHEAR TRANZ II DECK (10)

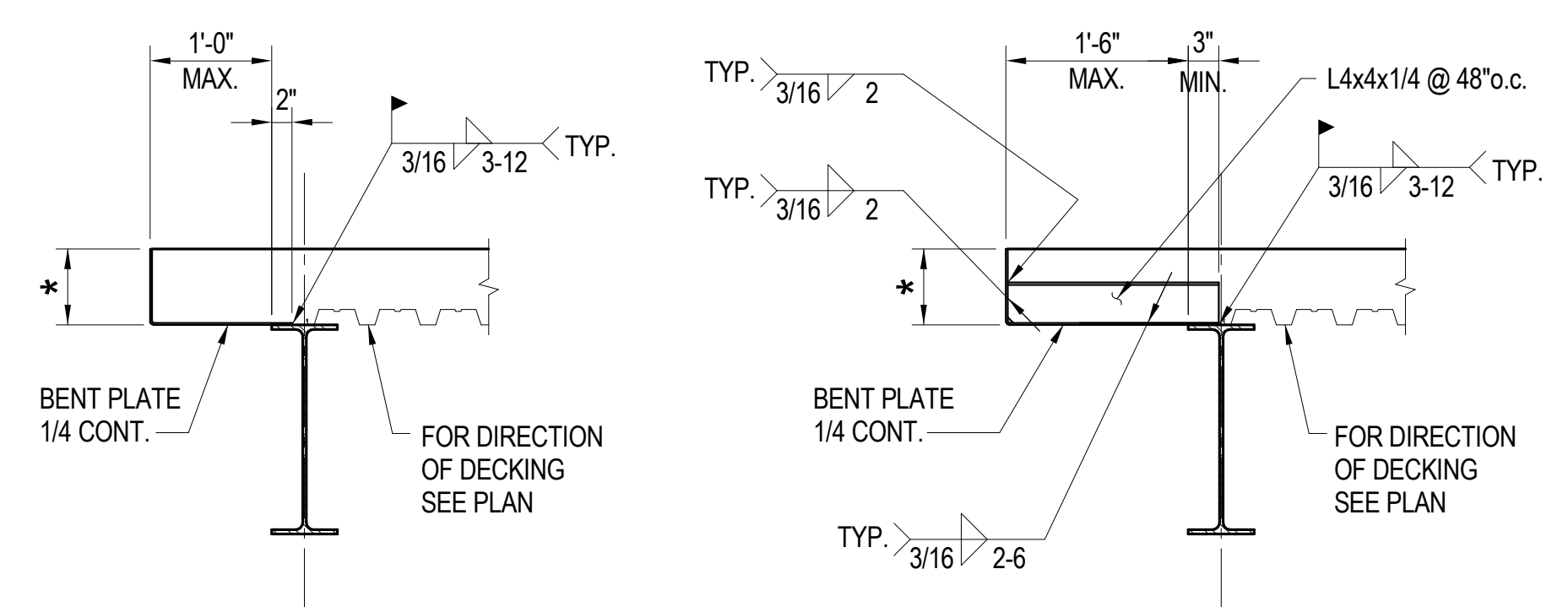


STEEL DECK PARALLEL TO BEAM AT FLOOR



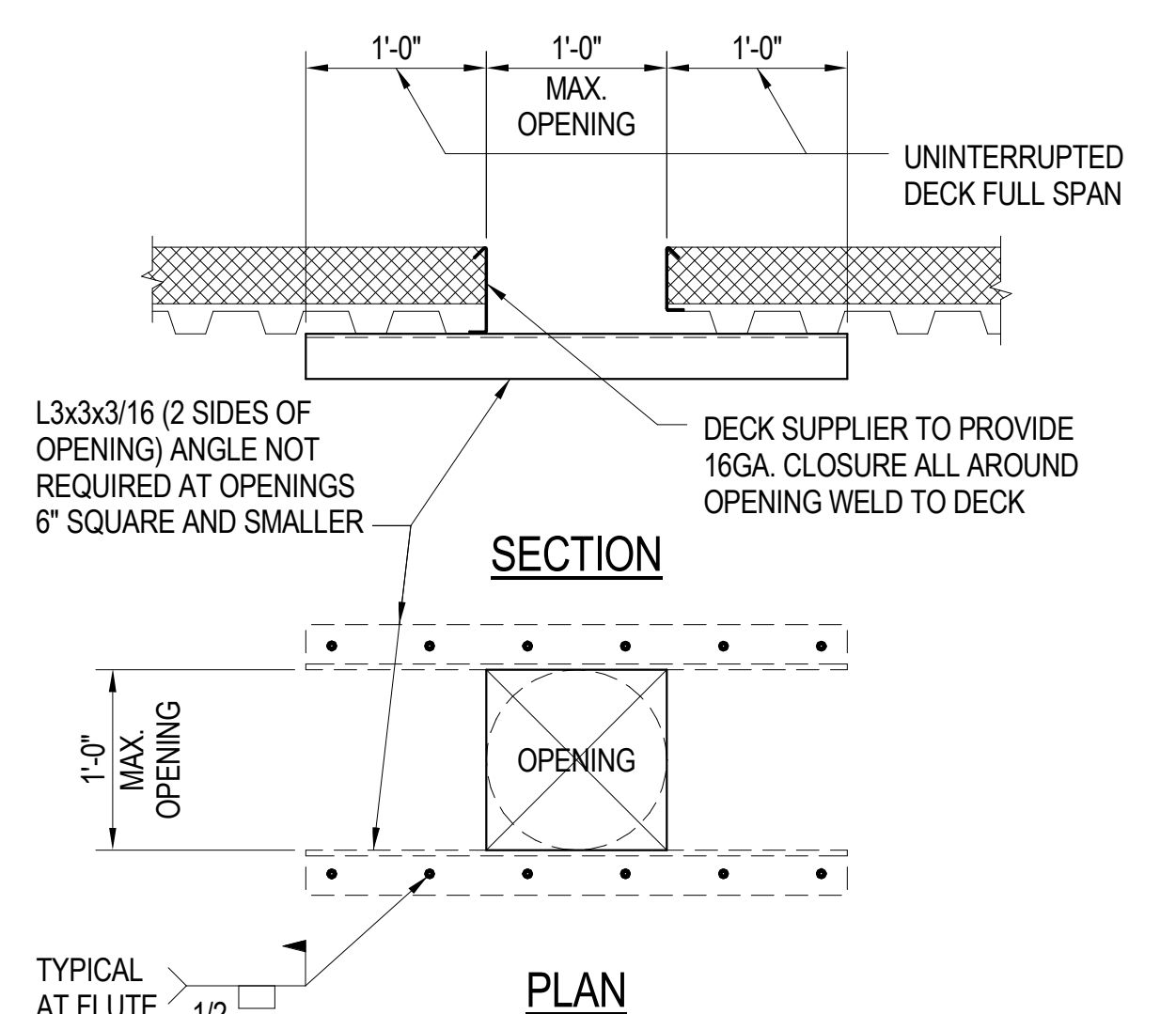
STEEL DECK PERPENDICULAR TO BEAM AT FLOOR

TYPICAL STEEL BEAM LOCATION AT EDGE OF OPENING DETAIL (9)

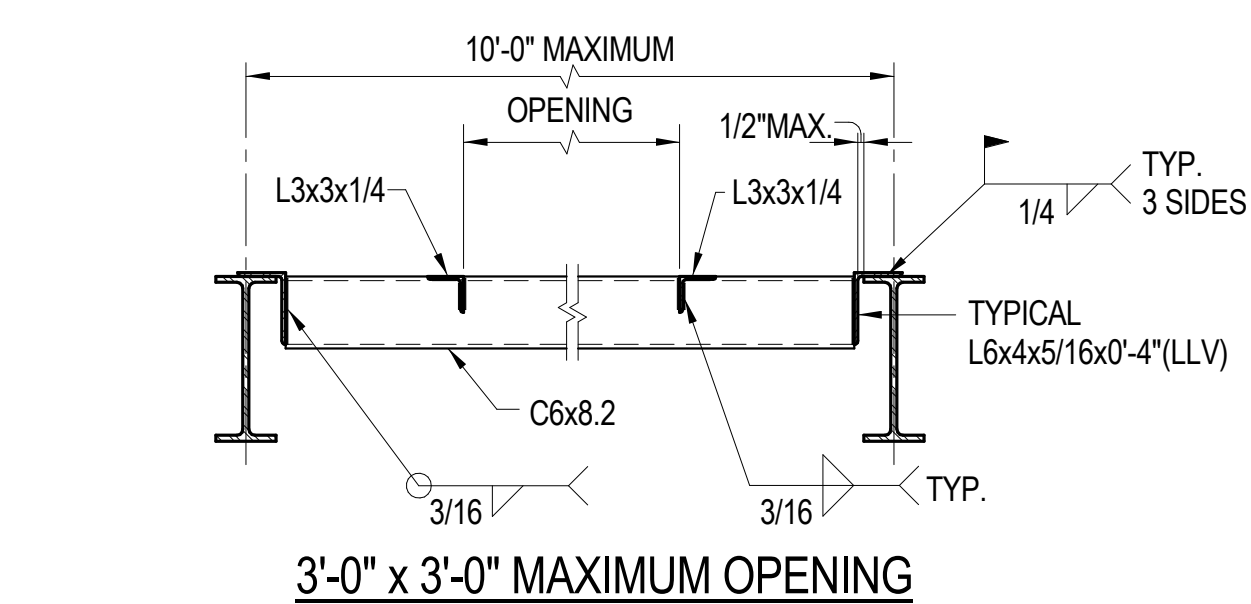
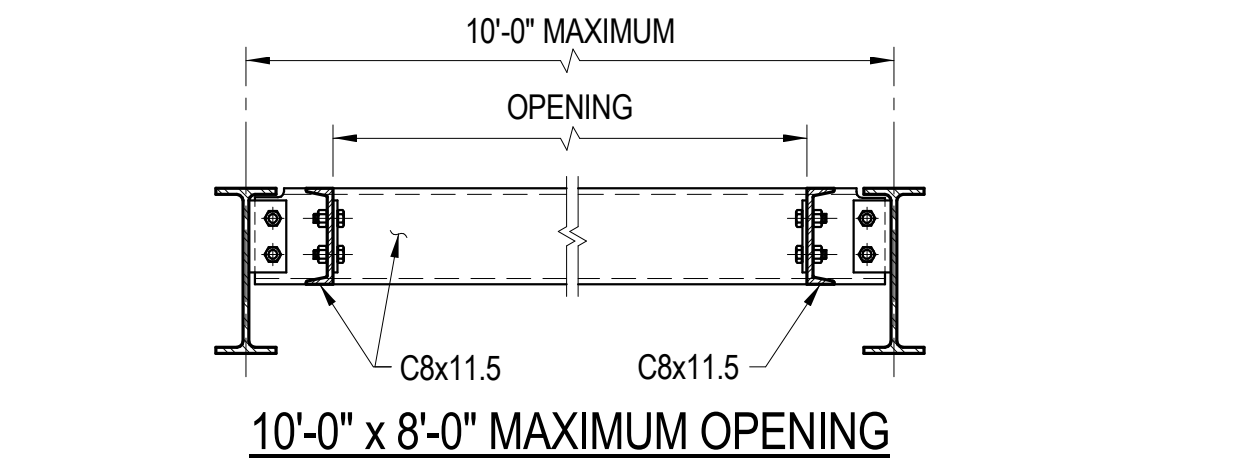


\* VERIFY HEIGHT OF BENT PLATE w/ARCHITECT.

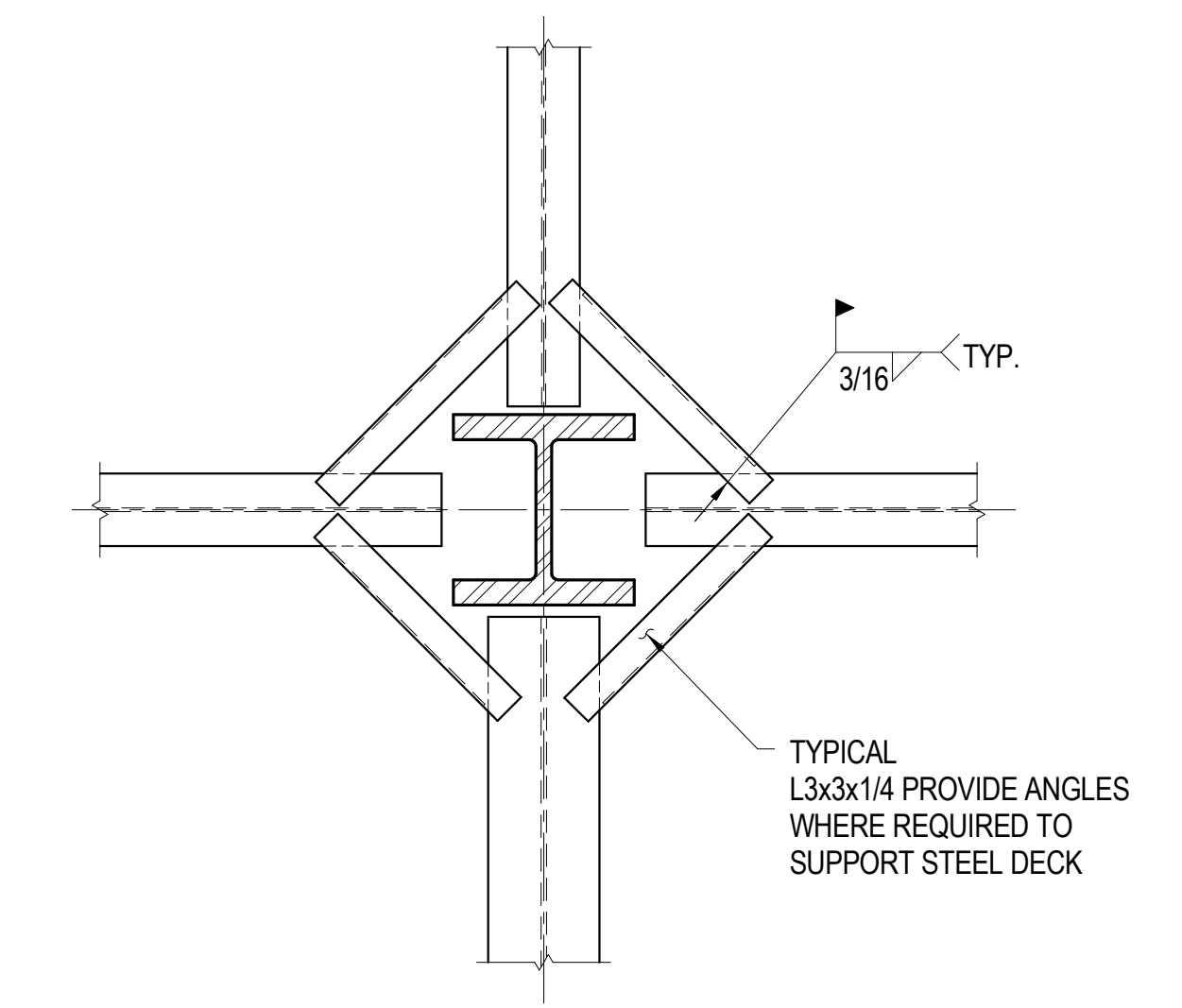
TYPICAL PERIMETER OF NON-CONCRETE ROOF EDGE (8)



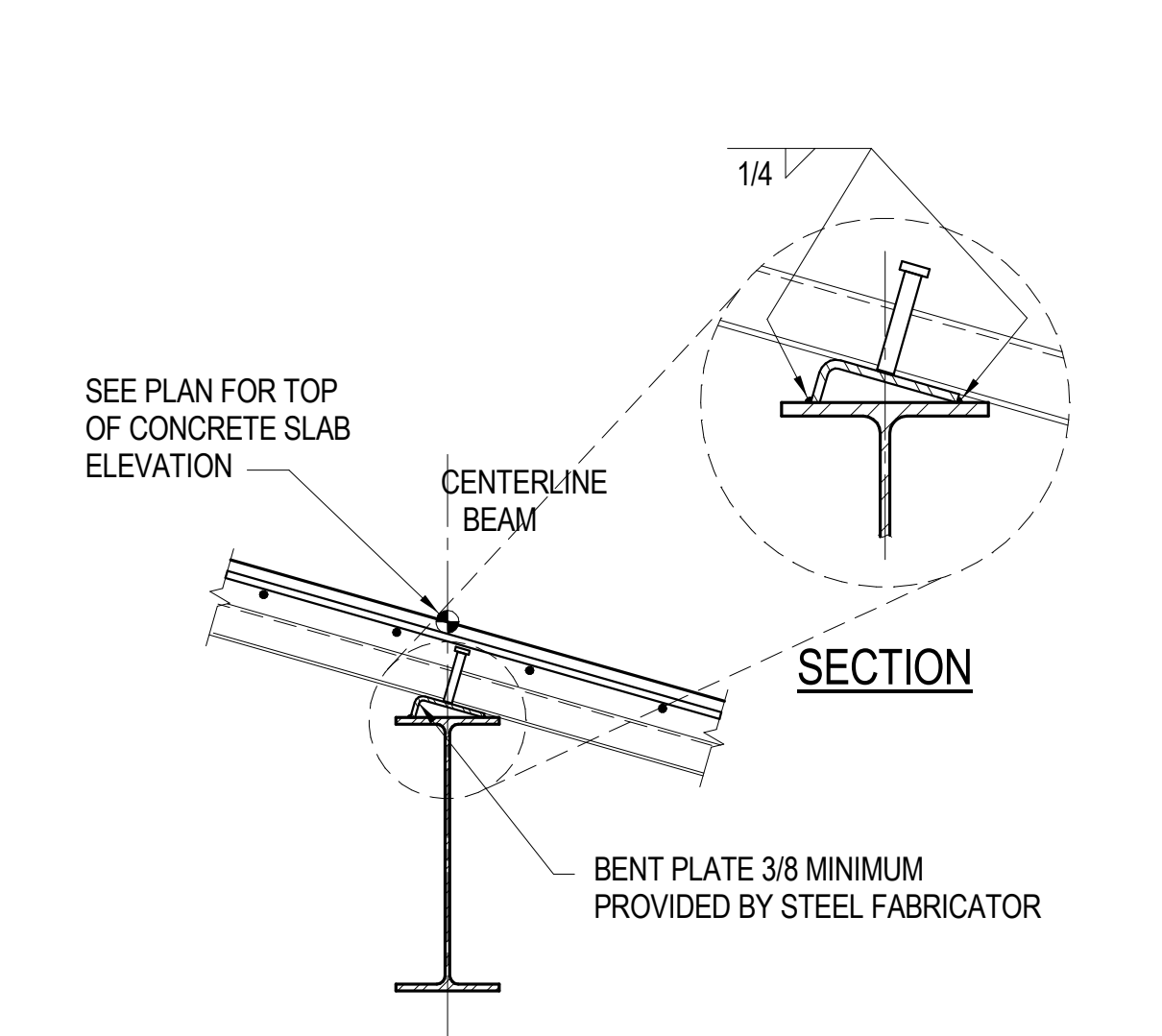
TYPICAL SQUARE OPENINGS IN ROOF UP TO 1'-0" SQUARE (7)



TYPICAL STEEL DECK OPENING AT ROOF DETAILS (6)



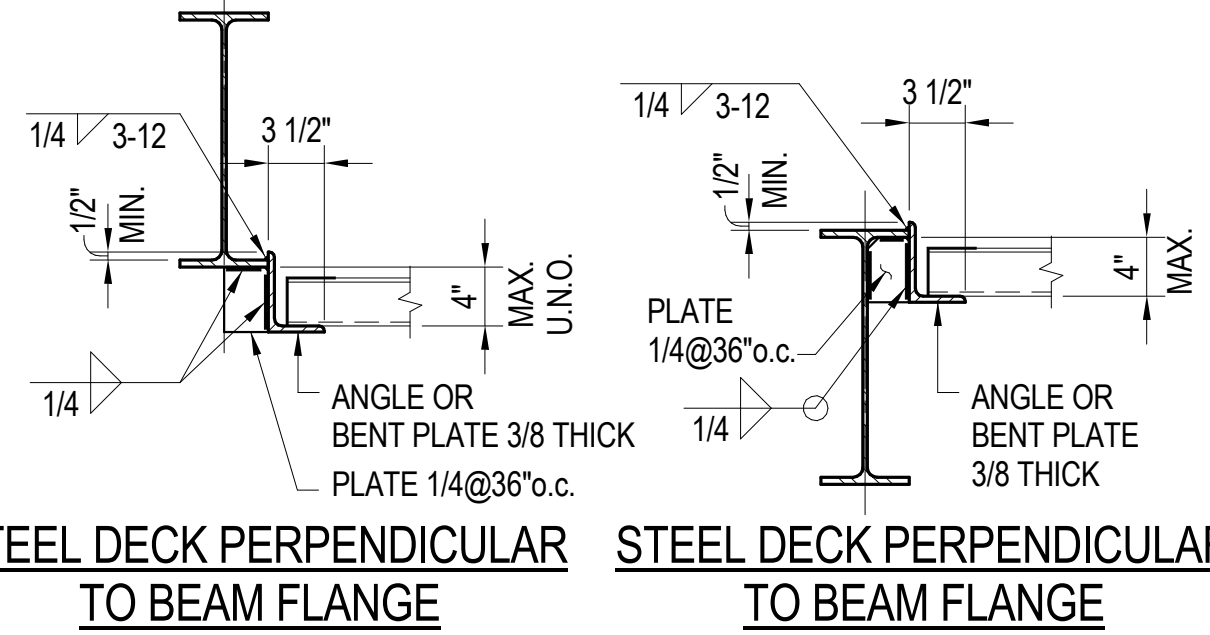
TYPICAL STEEL DECK SUPPORT AT COLUMN DETAIL (5)



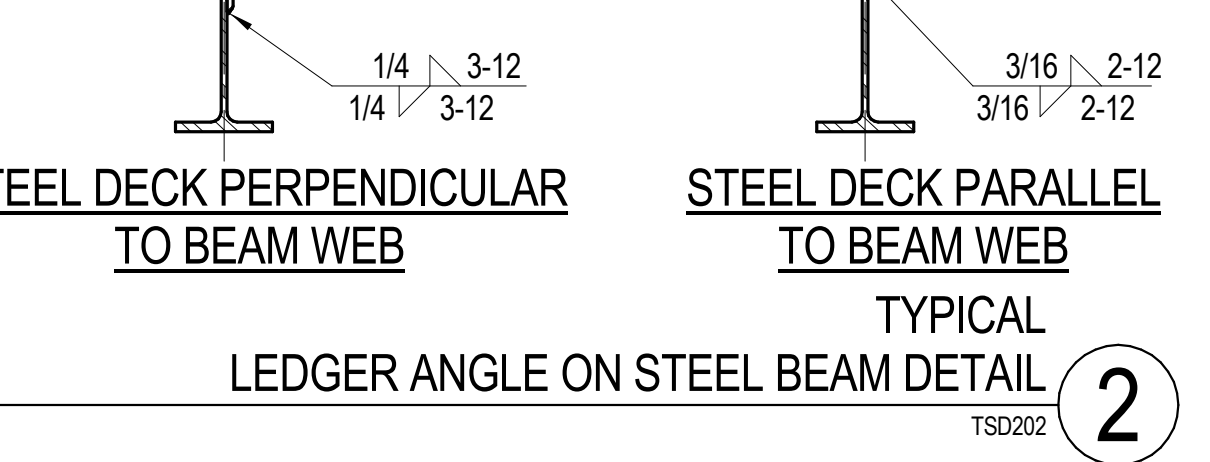
TYPICAL BEAM SECTION AT SLOPED FLOOR DETAIL (4)

MARK *TC	DEPTH	STRUCTURAL TEE'S AND ANGLE SIZES
T3	3"	L3x3x3/8
T4	4"	WT4x7.5
T5	5"	WT5x8.5
T6	6"	WT6x9.5
TX6	6"	WT6x20
T7	7"	WT7x13
T8	8"	WT8x15.5
T9	9"	WT9x20

TYPICAL STRUCTURAL TEE DETAIL (3)



TYPICAL LEDGER ANGLE ON STEEL BEAM DETAIL (2)



TYPICAL SLAB AND STEEL DECK SCHEDULE (1)

STEEL DECK NOTES:  
 1. ALL STEEL DECKING SHALL CONFORM TO IAPMO REPORT #0217 DATED NOVEMBER 2011, REVISED JUNE 2014.  
 2. DEPUTY INSPECTOR SHALL BE REQUIRED FOR LIGHT GAGE WELDING ON STEEL DECK.  
 3. DEPUTY INSPECTOR SHALL BE REQUIRED FOR STUDS USED ON STEEL DECK.  
 4. ALL STEEL DECKING SHALL BE 38 KSI. MINIMUM.  
 5. SLABS EXPOSED TO WEATHER OR MOISTURE SENSITIVE COVERINGS SHALL BE PROVIDED WITH POSITIVE VENTED STEEL DECK.

MARK	STEEL DECK TYPE	GAGE	TOTAL SLAB "t"	SLAB DESCRIPTION	STEEL DECK ATTACHMENT PATTERN			MAXIMUM UNSHORED SPAN			REMARKS	
					PERPENDICULAR TO SUPPORT		SEAMS	SINGLE	DOUBLE	TRIPLE		
					ENDS	INTERMEDIATE						TO SUPPORT
D1	VERCO HSB-36	18	-	SEE ARCHITECTURAL	(7)1/2" Puddle Welds	(7)1/2" Puddle Welds	1/2" @ 12" o.c. Puddle Welds	TOP SEAM WELD AT 12" o.c.	8'-0"	9'-0"	9'-0"	
D2	VERCO B FORMLOK	20	4"	2 1/2" HARDROCK CONCRETE w/WWF6xW2.9xW2.9	(4)1/2" Puddle Welds	(4)1/2" Puddle Welds	1/2" @ 12" o.c. Puddle Welds	BUTTON PUNCH 36" o.c.	6'-0"	7'-6"	7'-6"	⚠



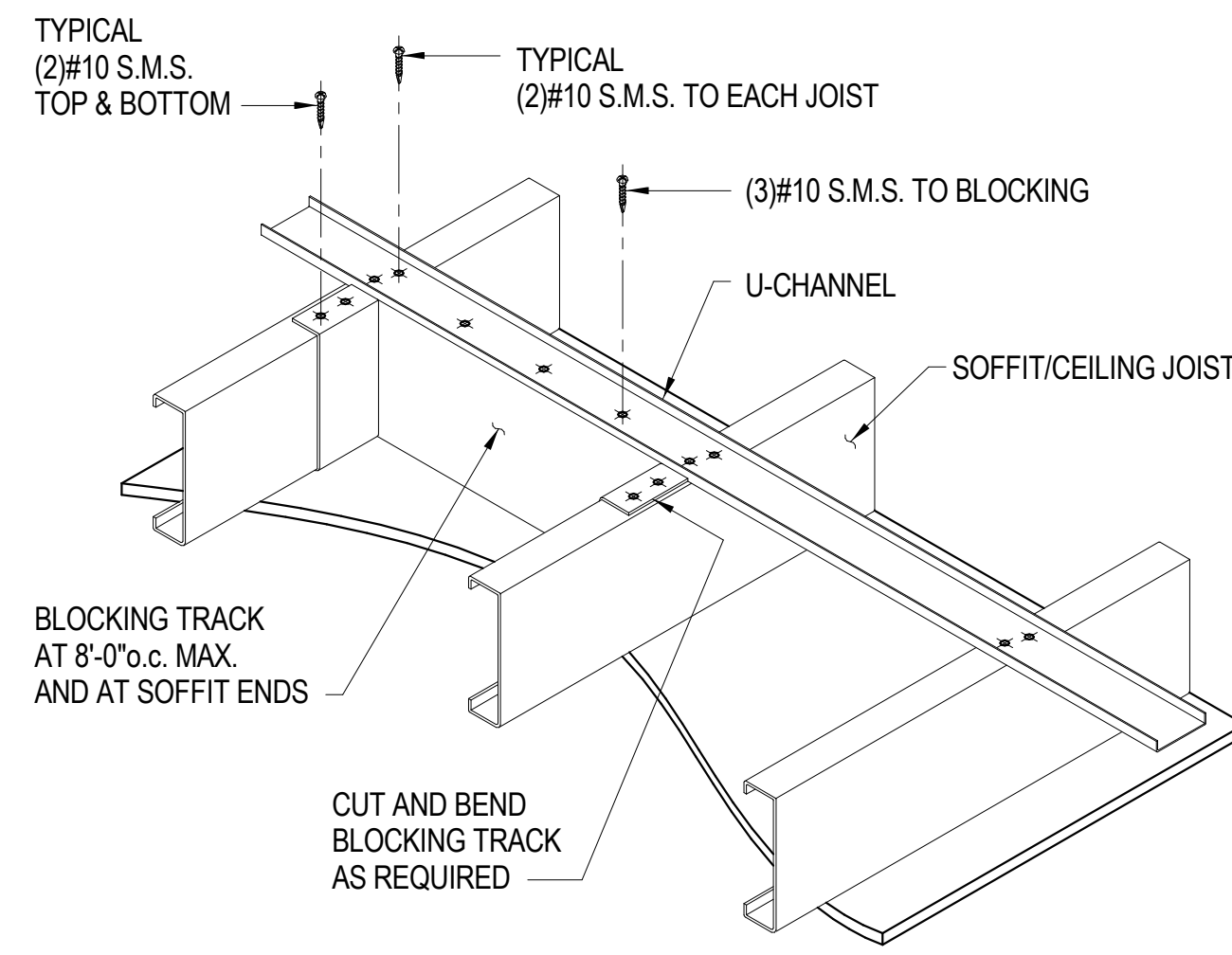
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REVISIONS		
NO.	DATE	DESCRIPTION
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	07/14/17	3RD PLAN CHECK SUBMITTAL

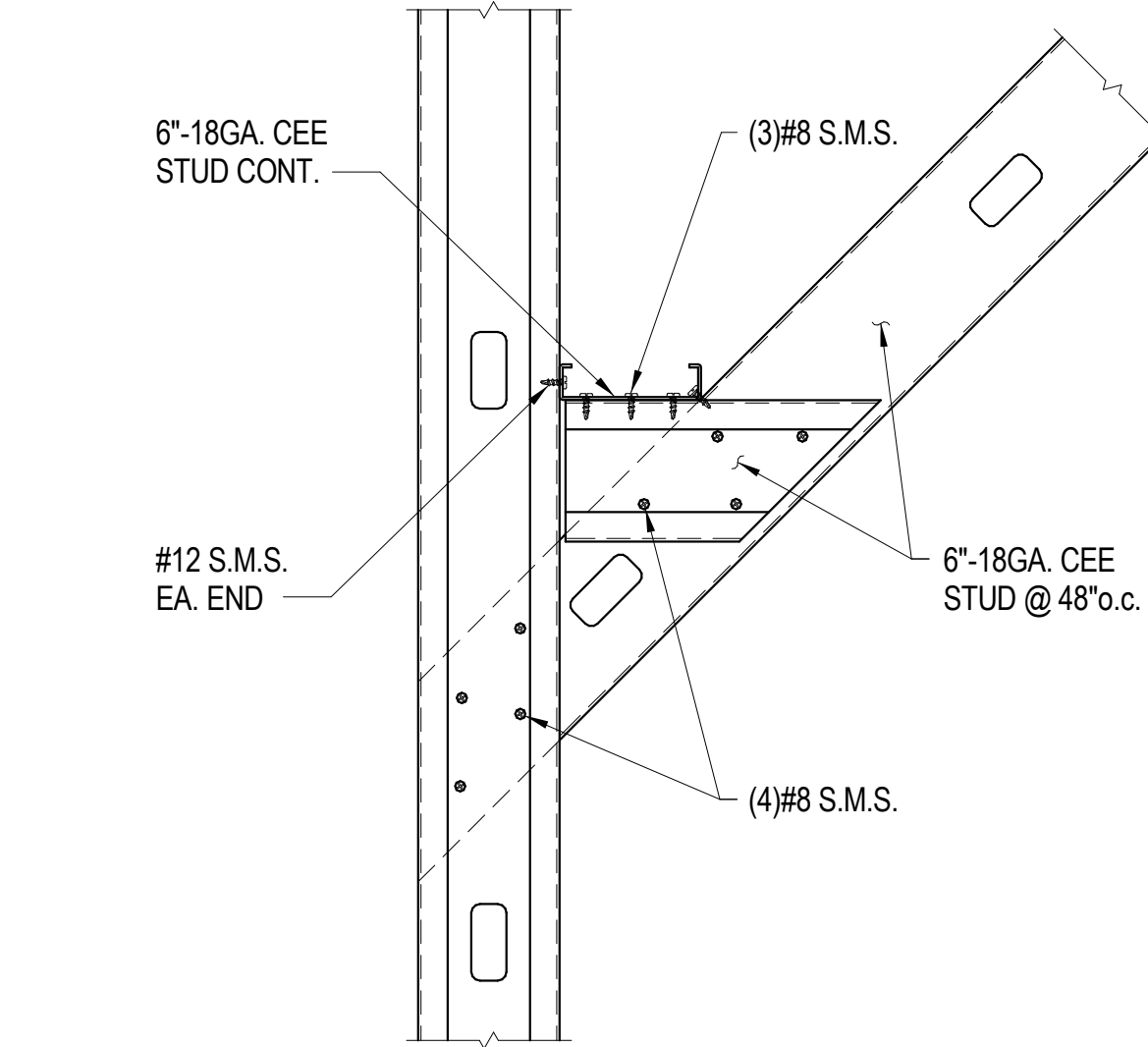
TYPICAL STEEL DECK DETAILS

SHEET SCALE:	As Indicated
PROJECT MANAGER:	MH
DESIGNER:	JN
DRAWN BY:	FS
REVIEWED BY:	
1st DEPT. SUBMITTAL:	XX/2016
ISSUED FOR CONST.:	
JOB NUMBER:	16-5003
CAD FILE NAME:	

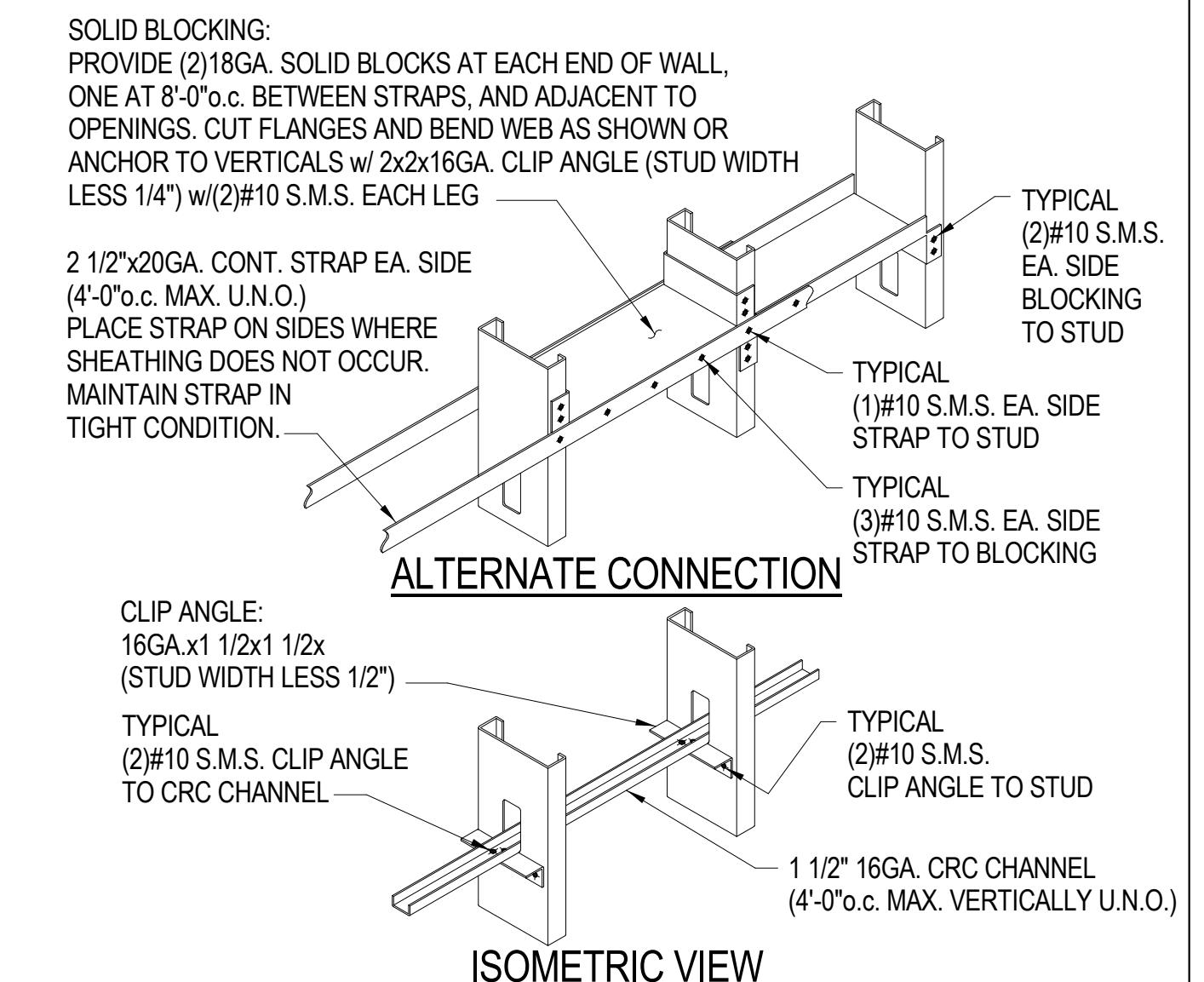




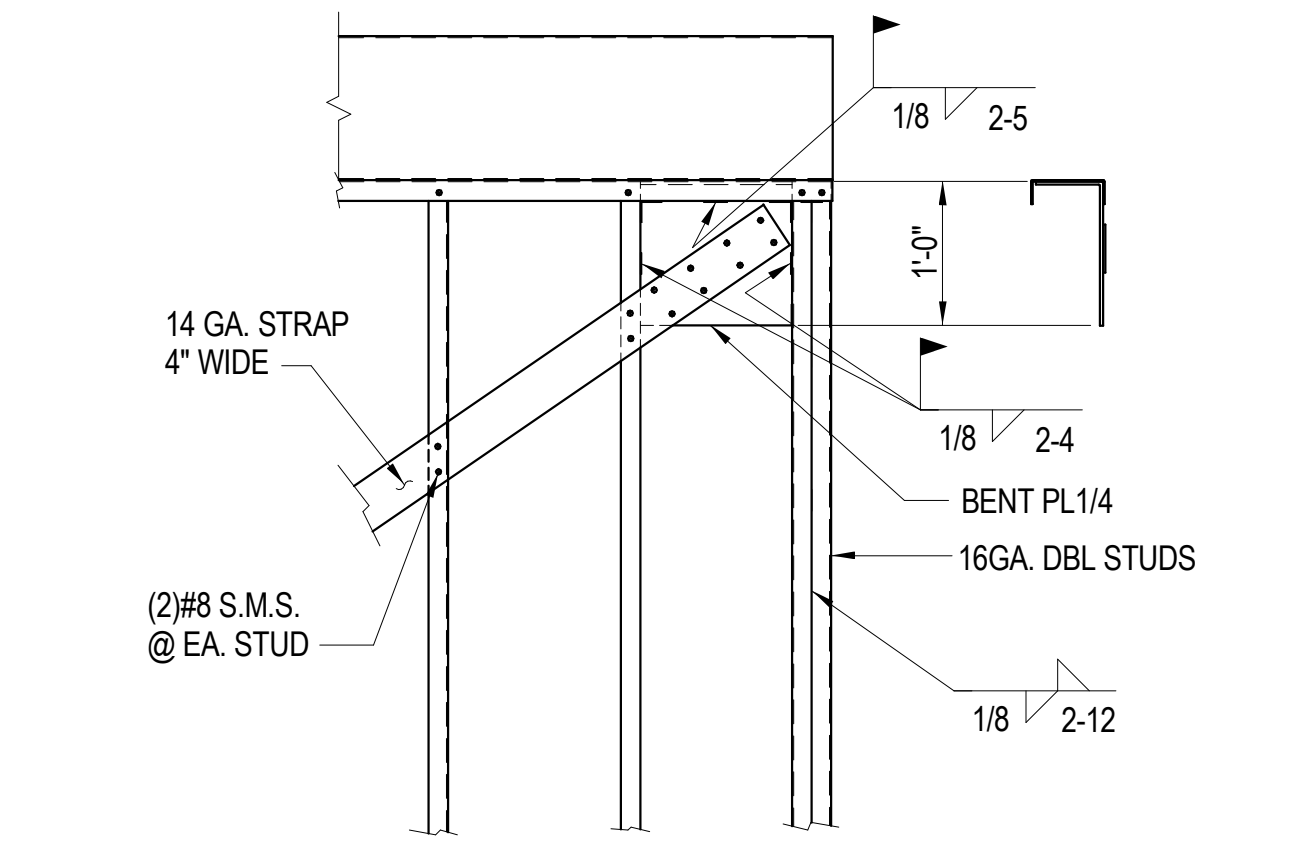
TYPICAL SOFFIT/CEILING JOIST BRIDGING DETAIL 8  
TSW702



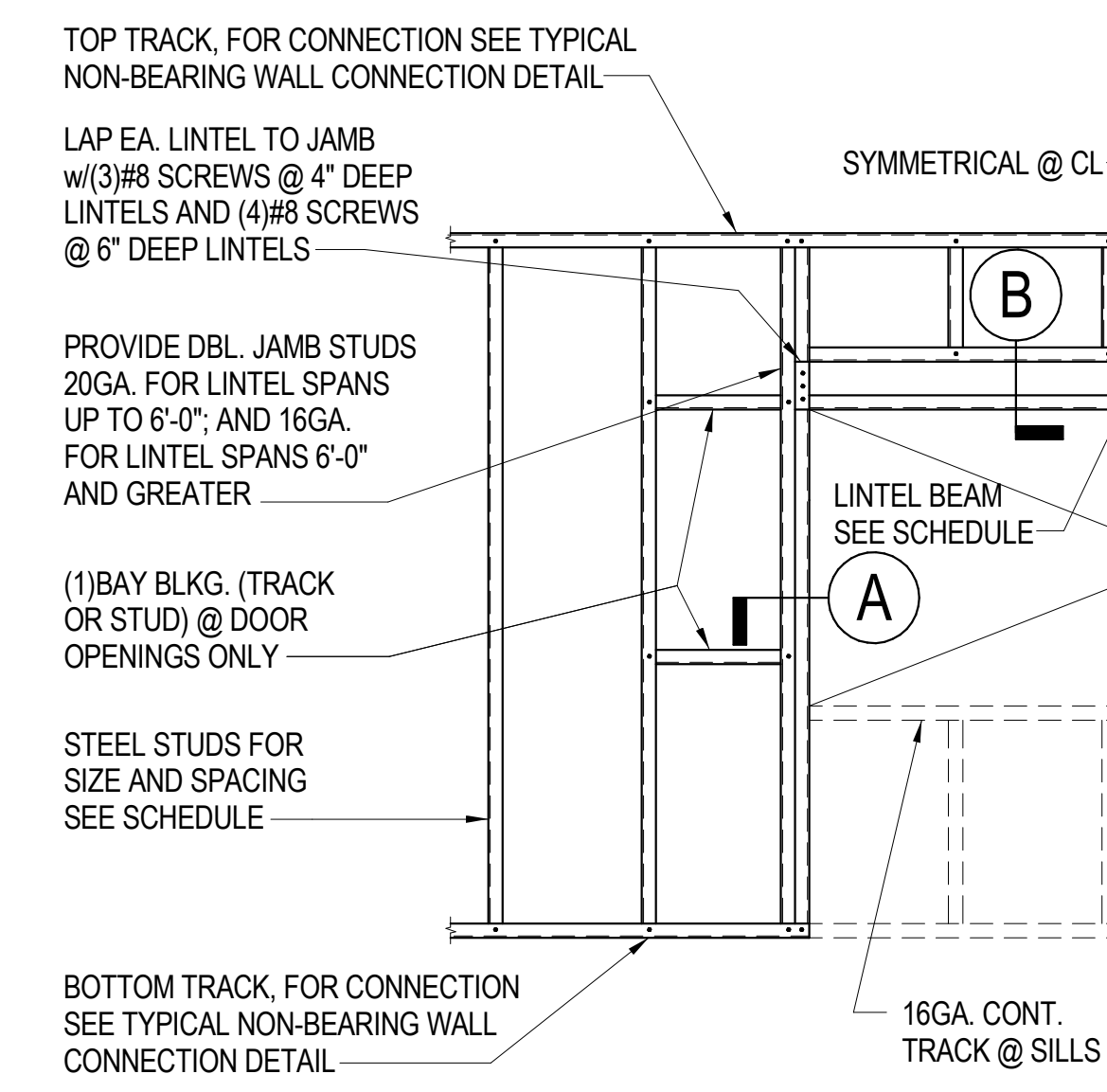
TYPICAL METAL STUD KICKER CONNECTION DETAIL 4  
TSW403



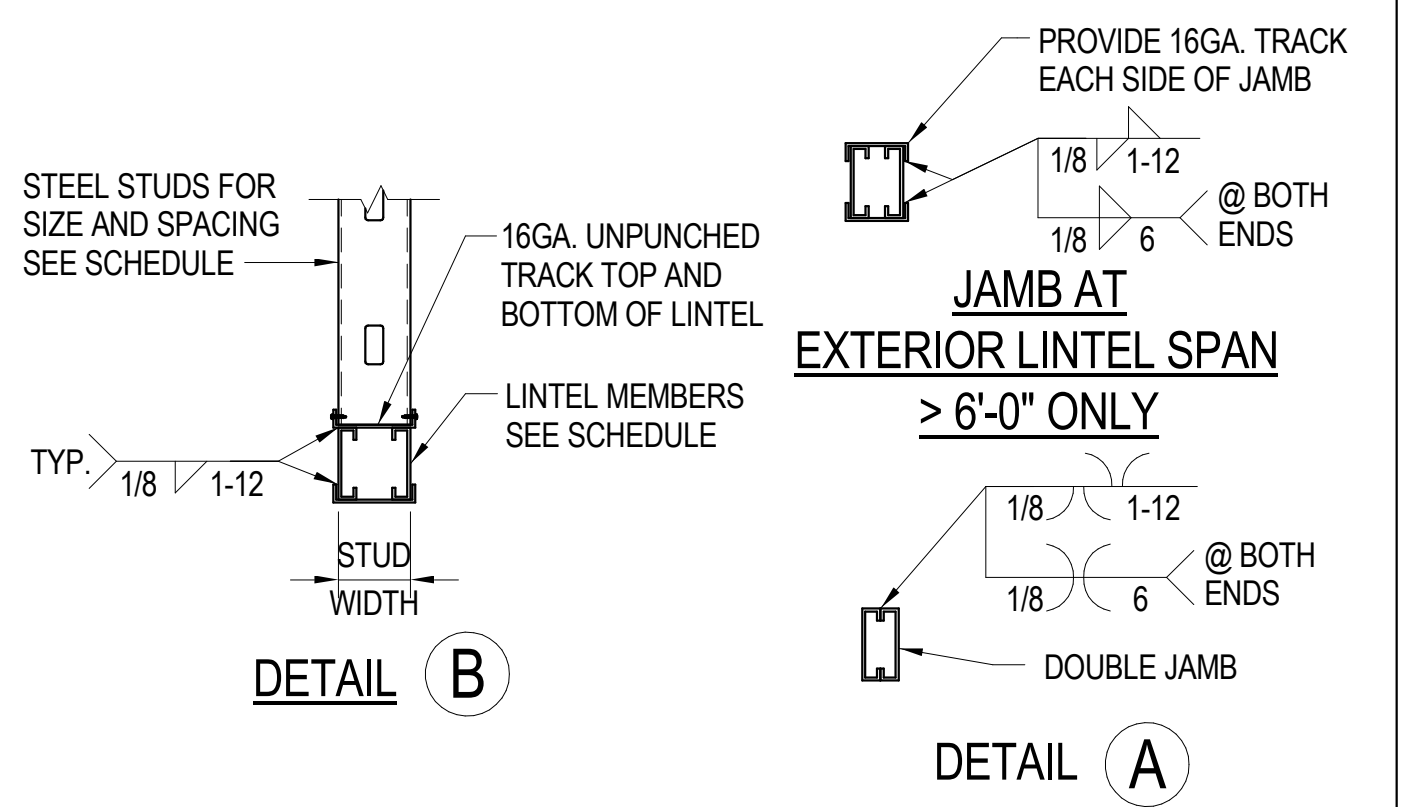
TYPICAL NON-BEARING METAL STUD WALL BRIDGING DETAILS 3  
TSW201



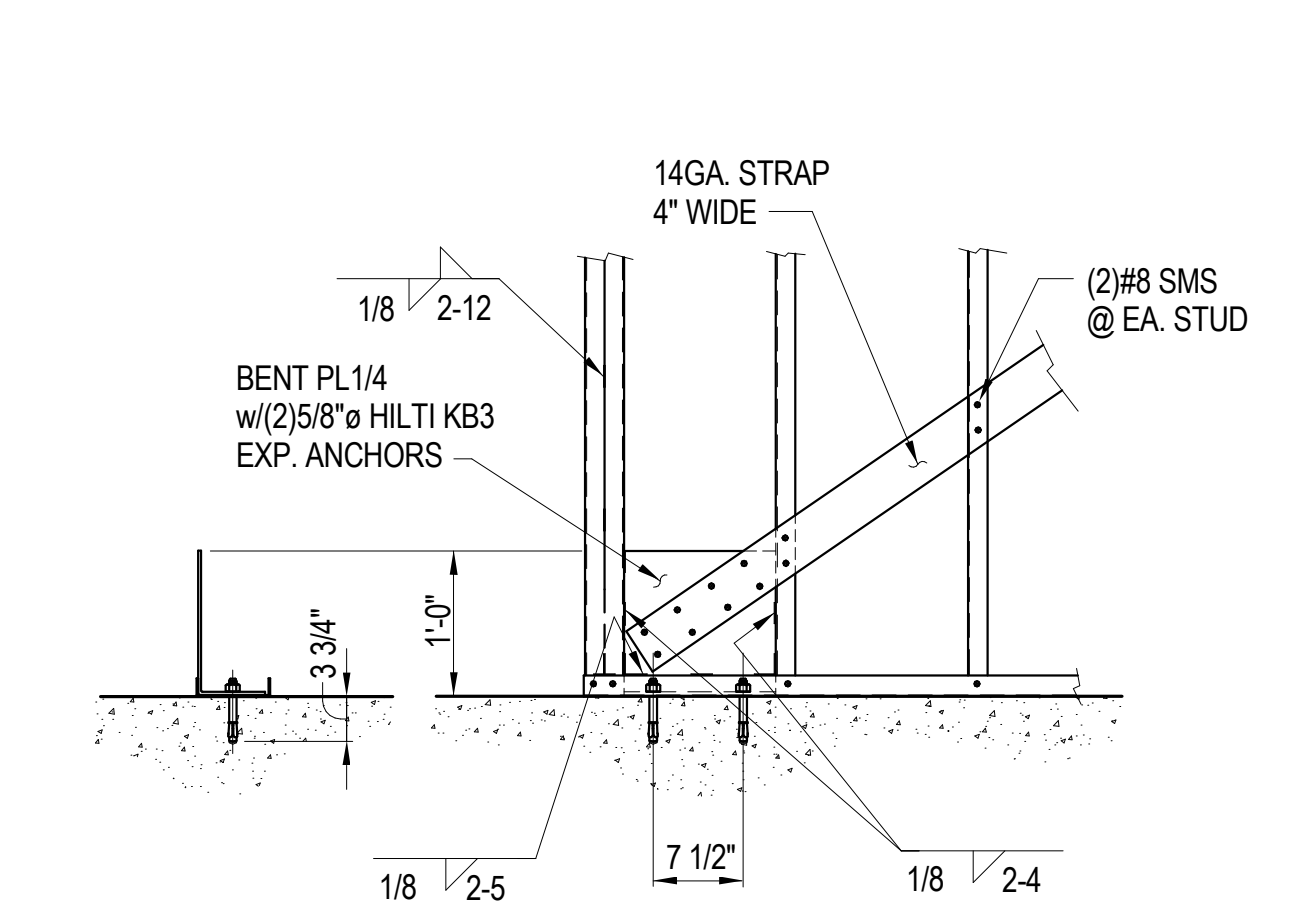
TYPICAL METAL STUD BRACE CONNECTION DETAIL 7  
TSW902



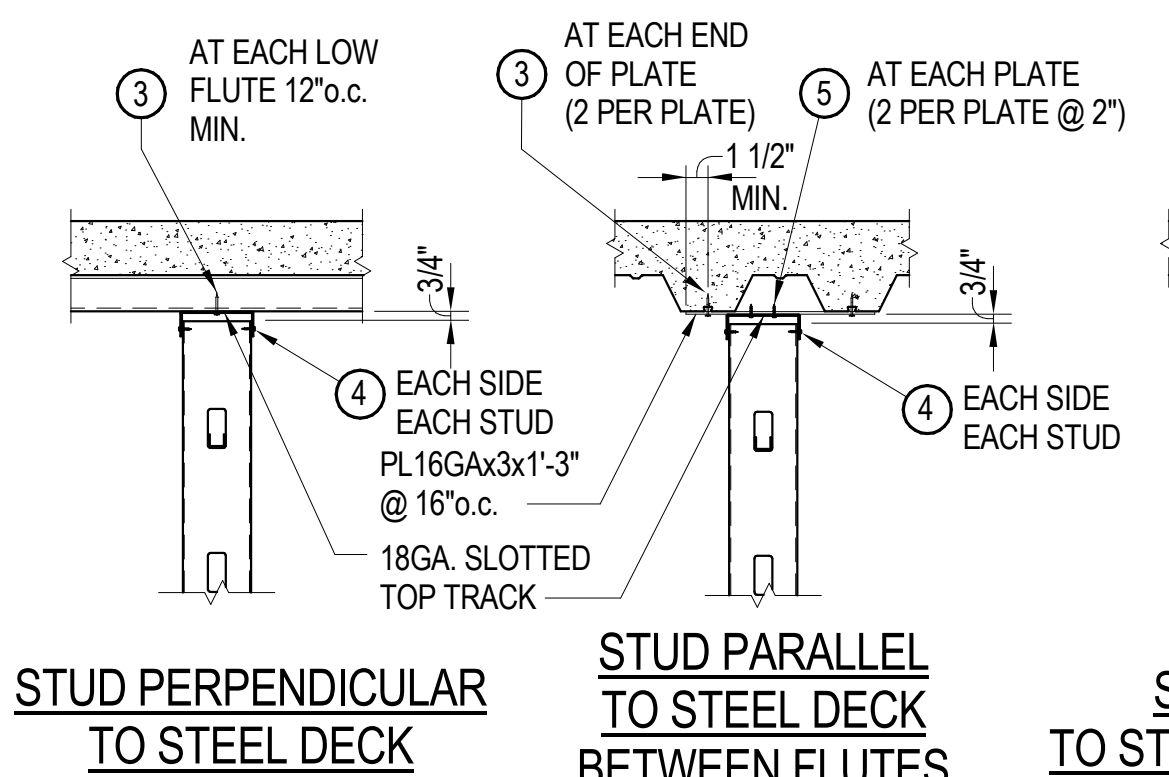
TYPICAL METAL STUD WALL FRAMING AT OPENING DETAIL 2  
TSW103



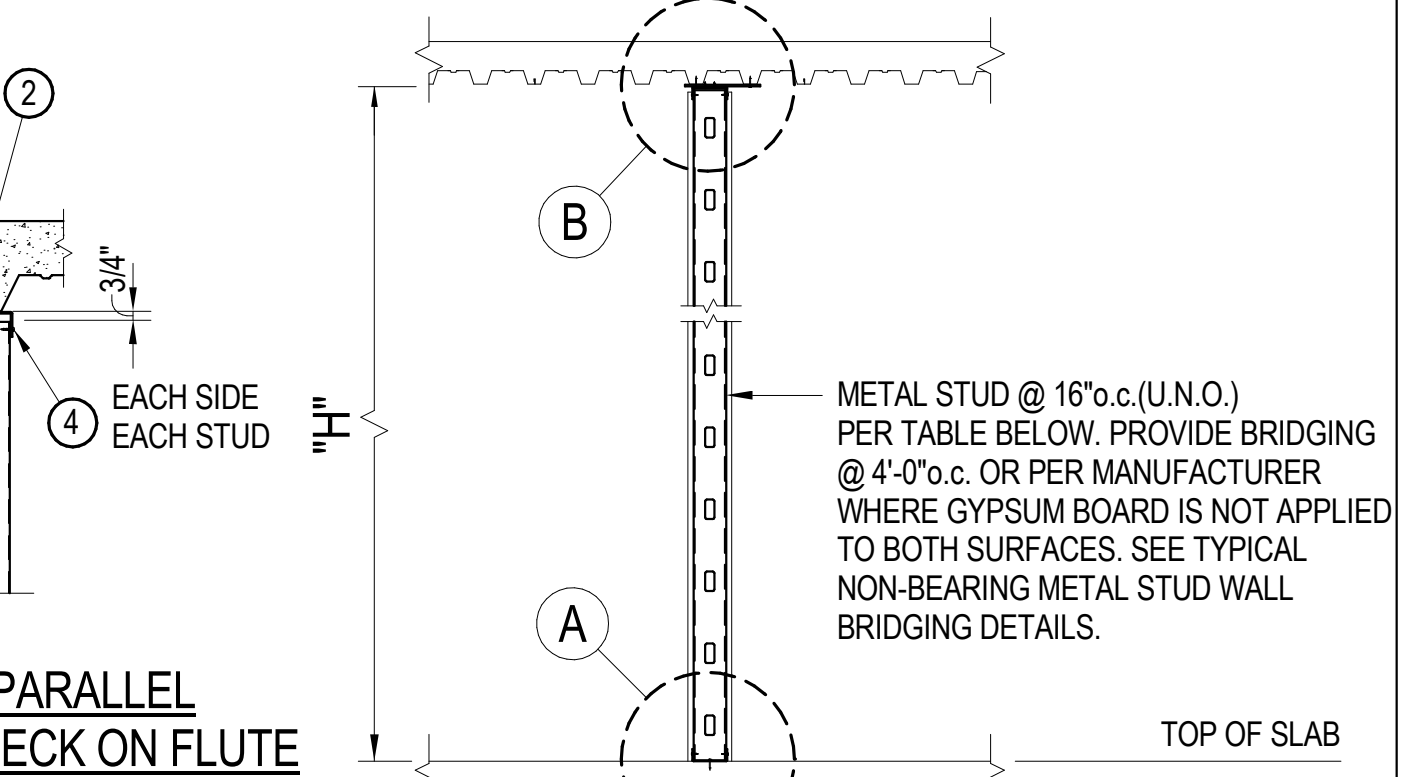
LINTEL SCHEDULE U.N.O.	
SPAN	LINTEL SIZE
≤ 6'-0"	(2)4"x16 GA. METAL CEE STUDS
< 6'-0" ≤ 8'-0"	(2)6"x18 GA. METAL CEE STUDS
< 8'-0" ≤ 10'-0"	(2)6"x16 GA. METAL CEE STUDS



TYPICAL METAL STUD BRACE CONNECTION DETAIL 6  
TSW901



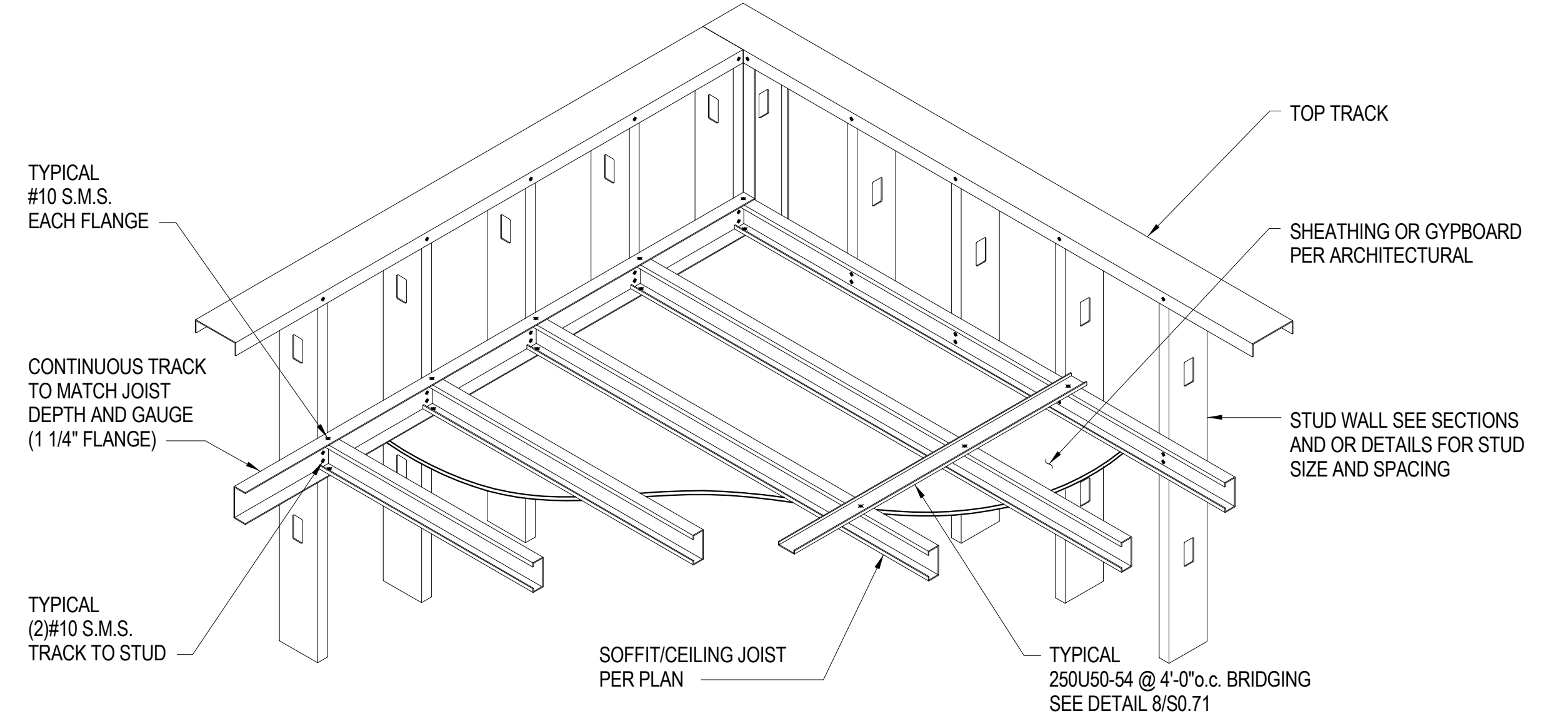
STUD TO DECK DETAIL B



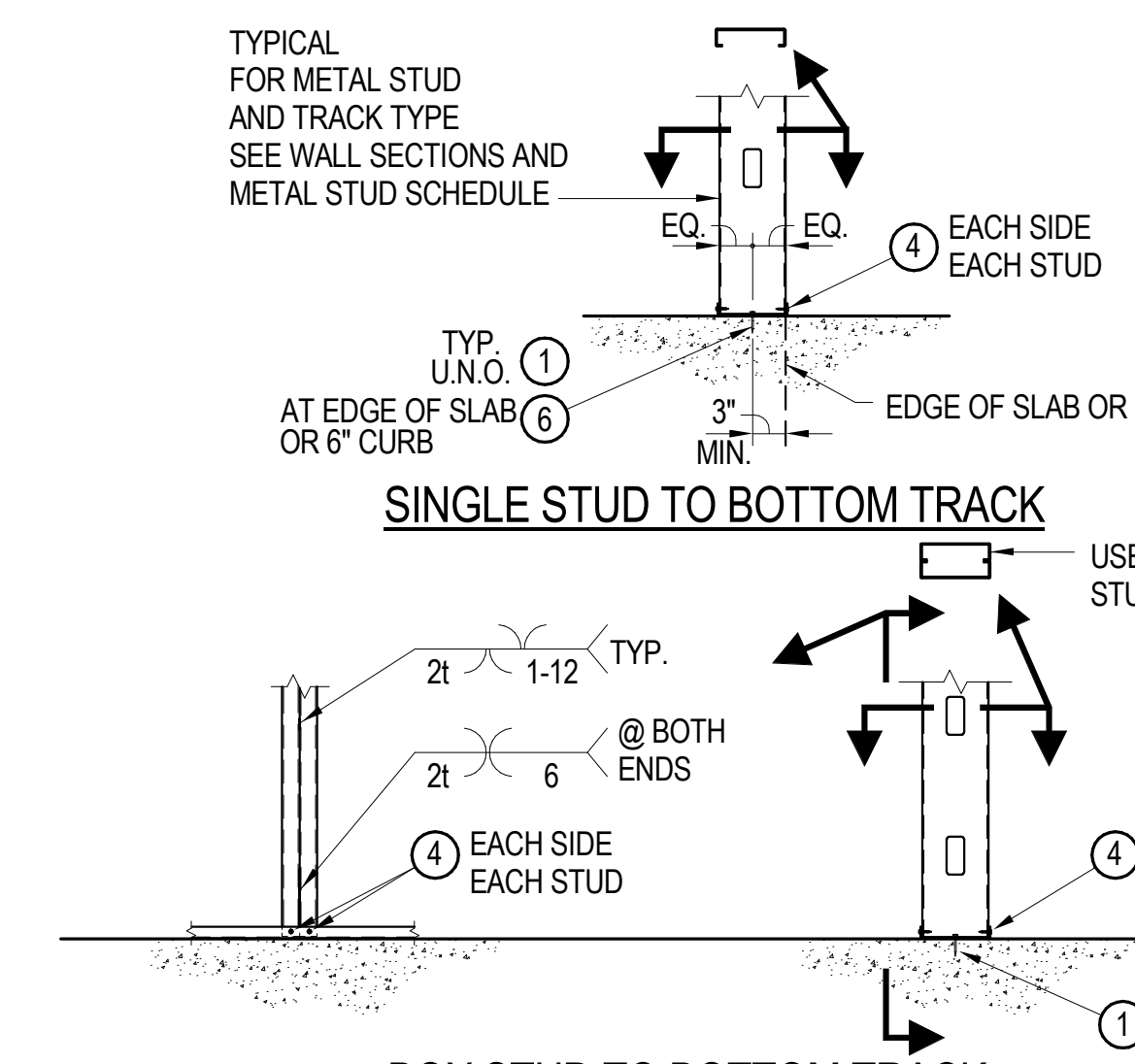
METAL STUD ELEVATION

METAL STUD SIZE (1 1/4" FLANGE - 125)				
GAUGE	3 5/8"	4"	6"	8"
14	19'-4"	21'-6"	29'-11"	-
16	18'-1"	20'-1"	27'-11"	-
18	16'-11"	18'-9"	26'-0"	-
20	15'-0"	16'-8"	23'-1"	-

- NOTES:
1. MAXIMUM STUD HEIGHT "H" FOR STUDS @ 16" c.c.
  2. SEE ARCHITECTURAL FOR OTHER CONDITIONS.
  3. LIMIT DEFLECTION TO "H"/240.
  4. NO ARCH'L, MECH'L OR MISC. ELEMENTS SHALL BE ATTACHED TO THE STUDS.
  5. ALL TRACKS TO MATCH STUD GAUGE AS A MINIMUM WITH 1 1/4" FLANGE.



TYPICAL SOFFIT/CEILING JOIST BRIDGING DETAIL 5  
TSW701



- NOTES:
1. "t" INDICATES STUD THICKNESS.
  2. WELDING PROCEDURE PER AWS D1.3.
  3. ALL POWER DRIVEN FASTENERS TO HAVE A MINIMUM PENETRATION OF 1".

TYPICAL NON-BEARING INTERIOR STUD WALL DETAILS 1  
TSW101

METAL STUD FASTENER SCHEDULE		
MARK	FASTENERS SIZE AND SPACING	REMARKS
①	HILTI X-U UNIVERSAL POWDER DRIVEN FASTENERS @ 32" c.c.	ESR-2269
②	HILTI X-U UNIVERSAL POWDER DRIVEN FASTENERS @ 32" c.c. AT METAL DECK w/ CONC. FILL, USE #10 SHEET METAL SCREWS x 1" LONG @ 16" c.c. AT METAL DECK w/ NO CONC. FILL	ESR-2269
③	HILTI X-U UNIVERSAL POWDER DRIVEN FASTENER AT METAL DECK w/ CONC. FILL, USE #10 SHEET METAL SCREW x 1" LONG AT METAL DECK w/ NO CONC. FILL	ESR-2269
④	#10 SHEET METAL SCREW x 5/8" LONG	-
⑤	#10 SHEET METAL SCREW x 5/8" LONG	-
⑥	HILTI KB-TZ 3/8"x2 5/8" EXPANSION ANCHORS @ 32" c.c.	ESR-1917

TYPICAL METAL STUD DETAILS

**WILLIAM HEZMALHALCH ARCHITECTS INC.**  
2850 REDHILL AVENUE, SUITE 200, SANTA ANA, CA 92705-5943  
949 250 5037 www.hezarchitects.com fax 949 250 1529  
6111 BOLLINGER CANYON ROAD, SUITE 465, SAN RAMON, CA 94583-9186  
925 463 1700 fax 925 463 1725



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STRUCTURAL ENGINEERS  
3621 Harbor Boulevard  
Suite 125  
Santa Ana, CA 92704  
714.557.8551 T  
714.557.8551 F  
www.englekirk.com

**SOUTH COAST SPEEDWASH AT THE AUTOBAHN**  
2402 BRISTOL ST. SANTA ANA, CA 92704  
**BRISTOL SPEEDWASH, INC.**  
10801 NATIONAL BLVD., STE 510 LOS ANGELES, CA. 90064

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NO.	DATE	DESCRIPTION
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TYPICAL METAL STUD DETAILS	
SHEET SCALE:	As Indicated
PROJECT MANAGER:	MH
DESIGNER:	JN
DRAWN BY:	FS
REVIEWED BY:	
1st DEPT. SUBMITTAL:	XX/2016
ISSUED FOR CONST.:	
JOB NUMBER:	16-5003
CAD FILE NAME:	

S0.71

2ND BUILDING PLAN CHECK COORDINATION 05.18.2017



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 2850 REDHILL AVENUE, SUITE 200, SANTA ANA, CA 92705-5943  
 949 250 6037 www.hezarchitects.com fax 949 250 1529  
 6111 BOLLINGER CANYON ROAD, SUITE 405, SAN RAMON, CA 94583-9186  
 925 463 1700 fax 925 463 1725



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 Suite 125  
 Santa Ana, CA 92704  
 714.557.8551 T  
 714.557.8551 F  
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DO NOT SCALE PLANS

**REVISIONS**

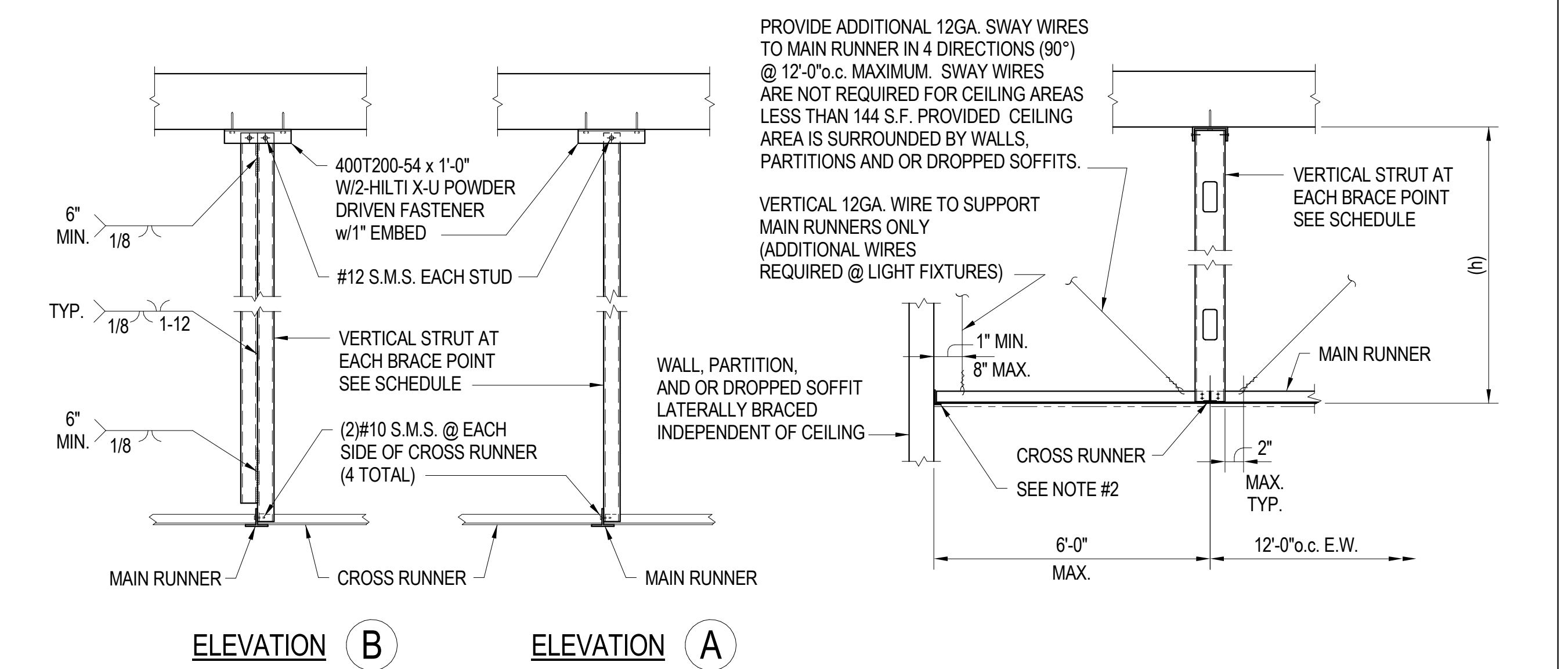
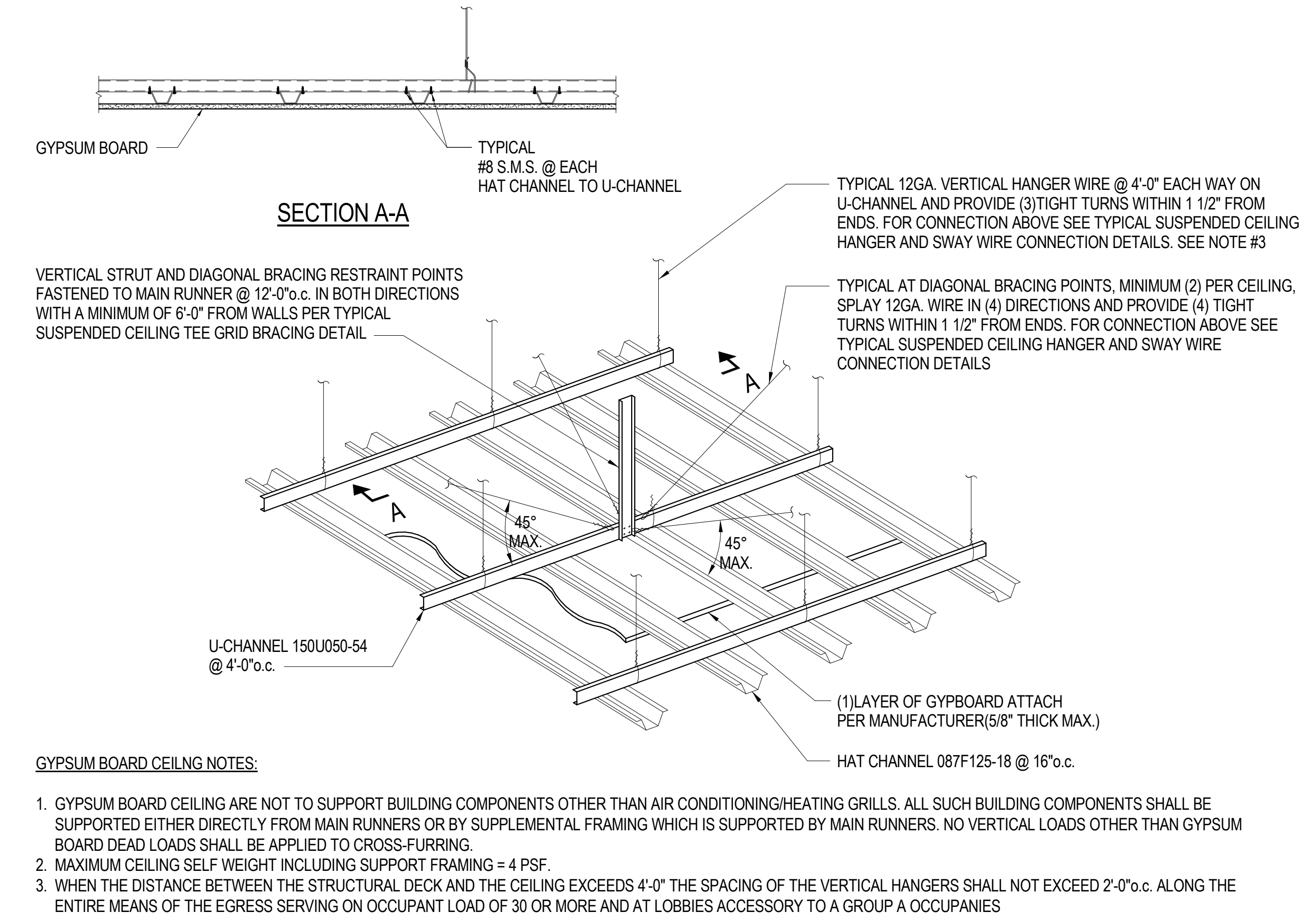
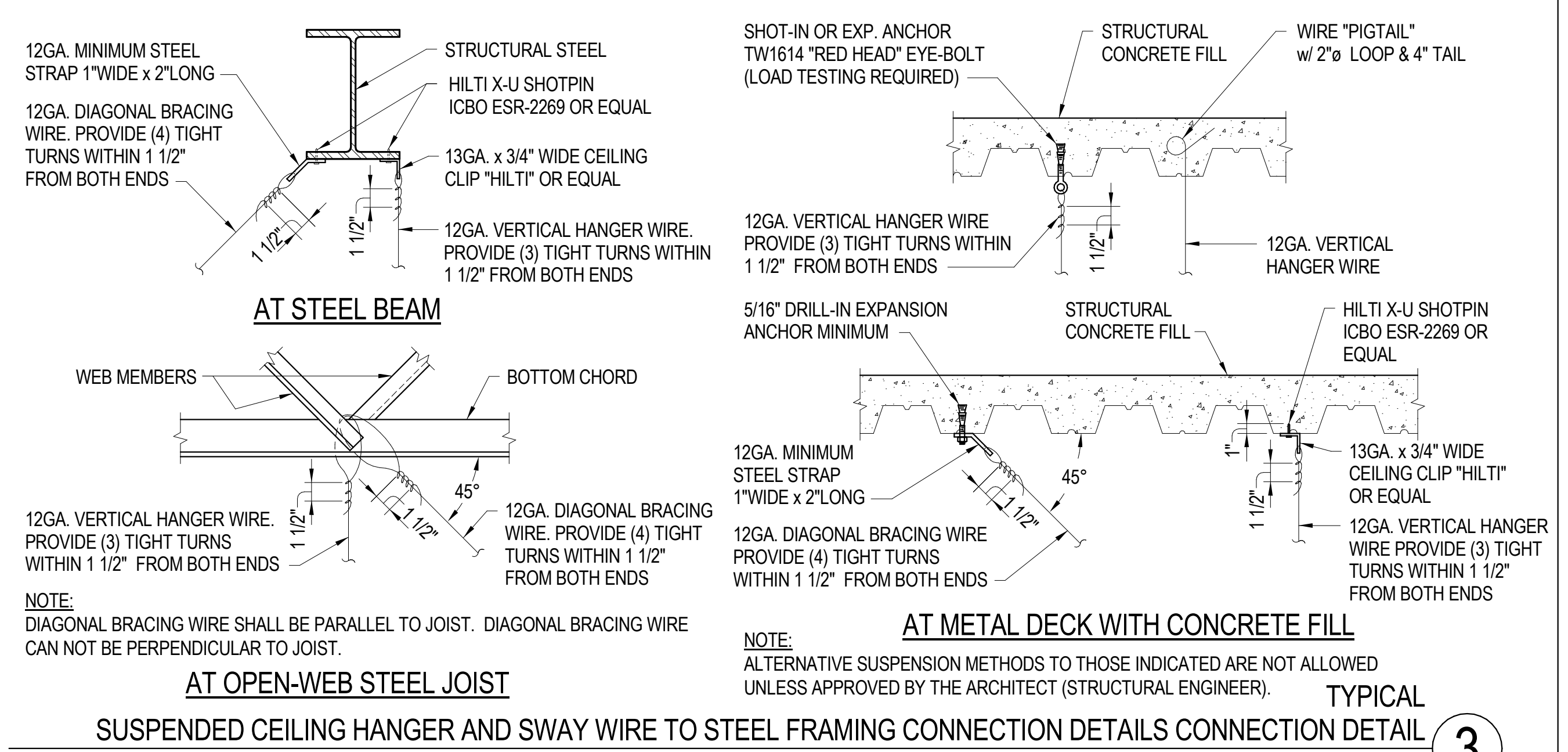
NO.	DATE	DESCRIPTION
07/14/17	3RD PLAN CHECK SUBMITTAL	

**TYPICAL DETAILS**

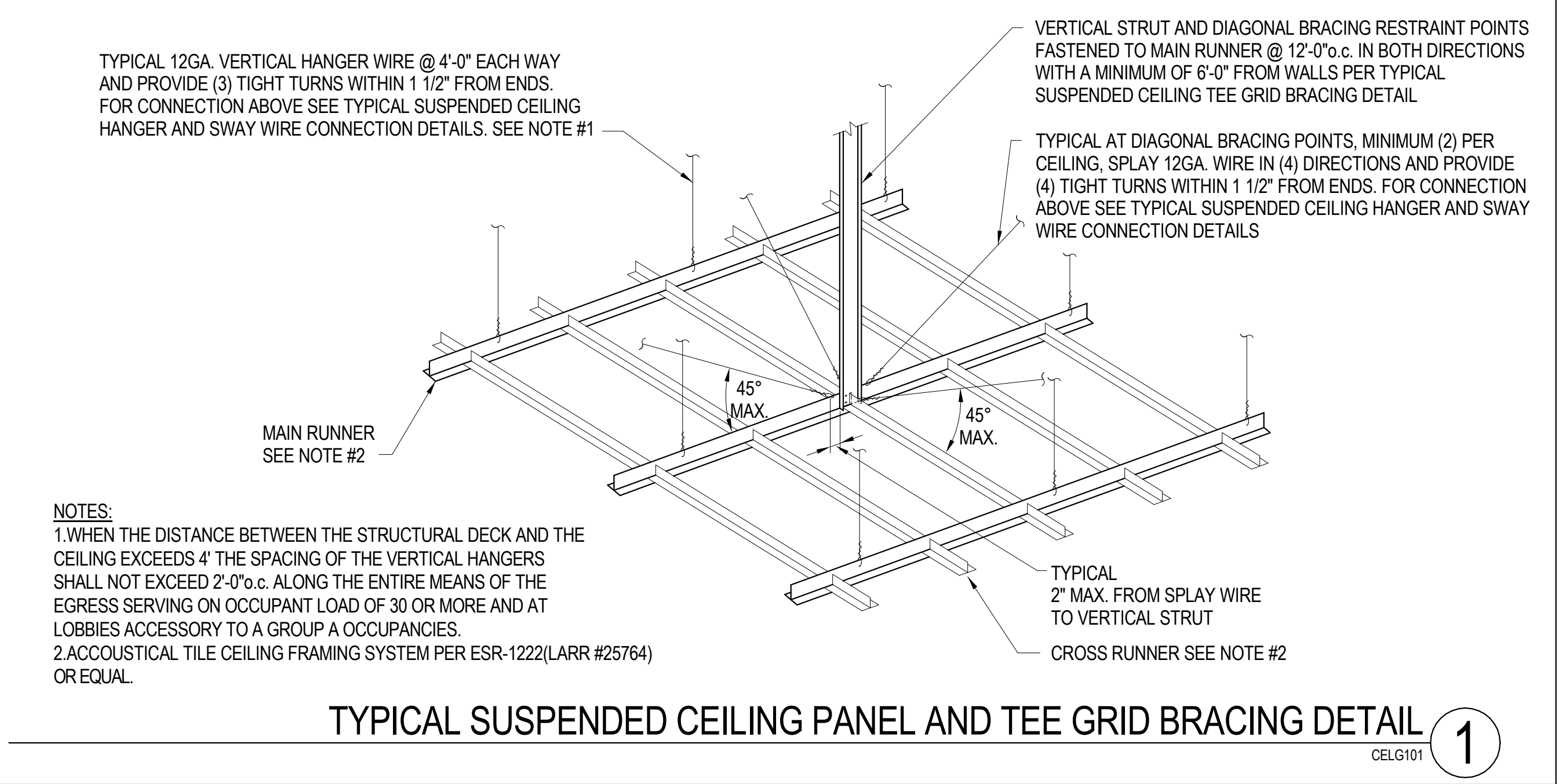
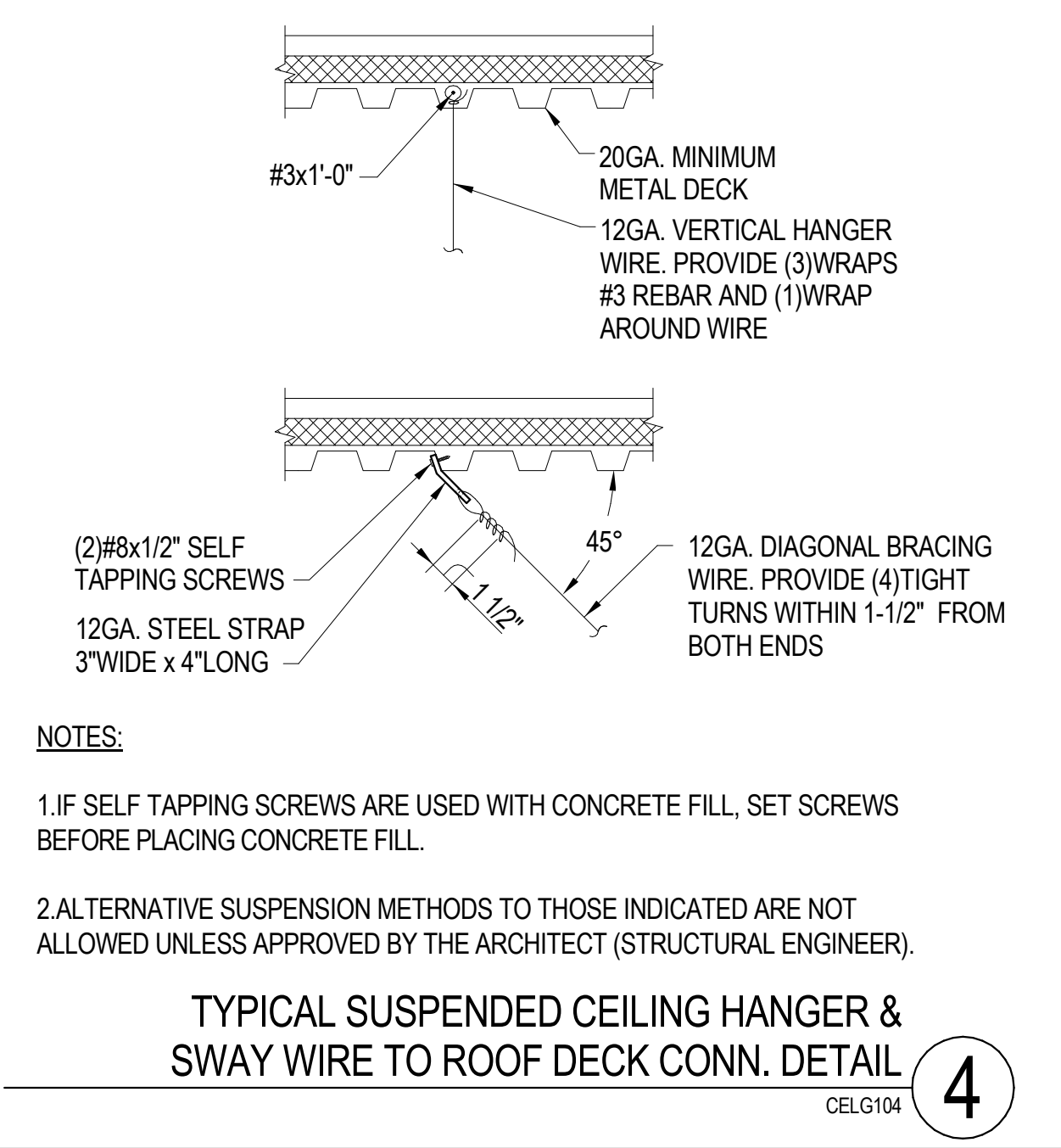
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PROJECT MANAGER:	MH
DESIGNER:	JN
DRAWN BY:	FS
REVIEWED BY:	
1st DEPT. SUBMITTAL:	XX/2016
ISSUED FOR CONST.:	
JOB NUMBER:	16-5003
CAD FILE NAME:	

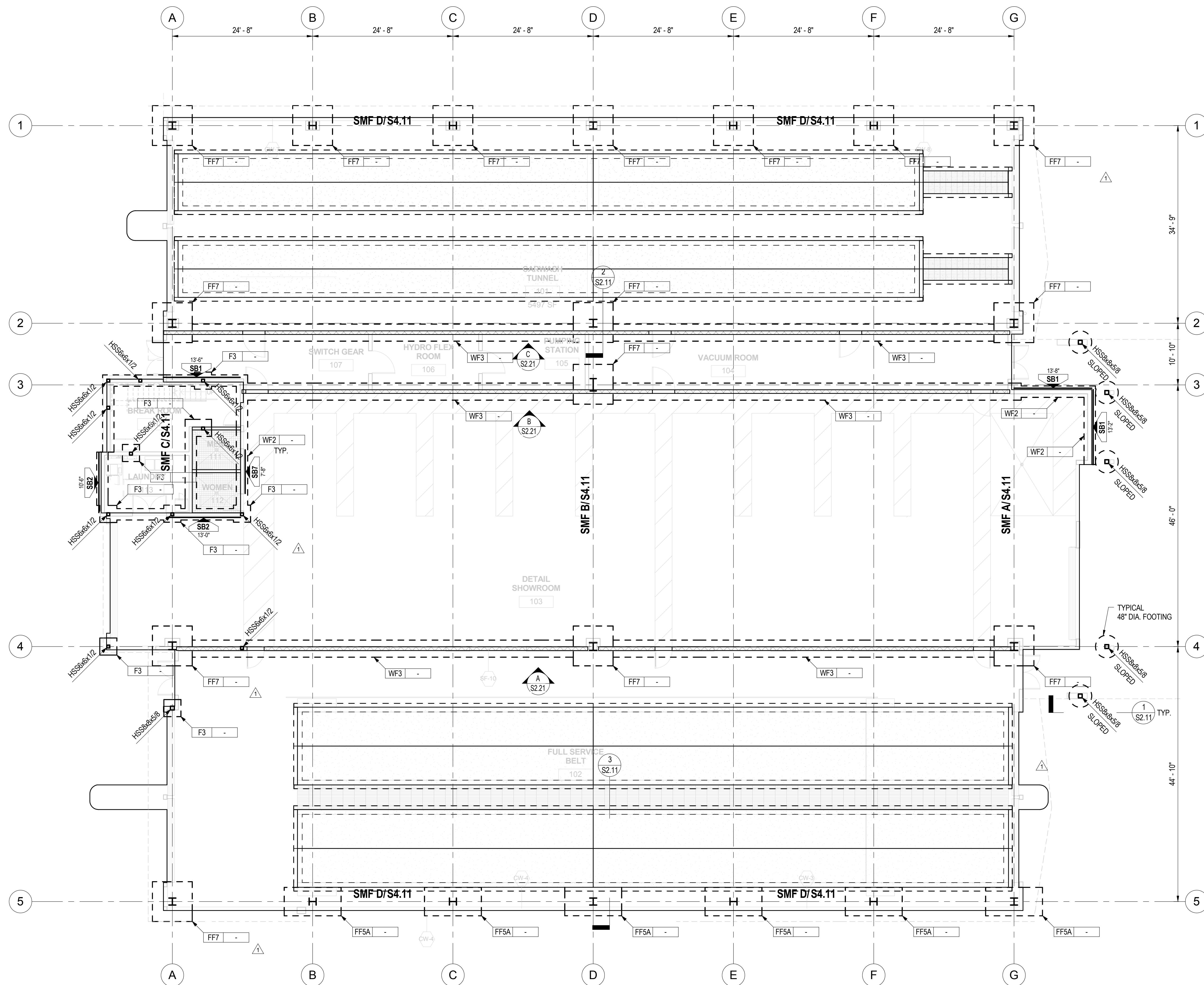
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2ND BUILDING PLAN CHECK COORDINATION 05.18.2017



STUD HEIGHT (h)	METAL STUD SIZE	REMARKS
≤ 6'-0"	400S162-18	SEE ELEVATION (A)
>6'-0" ≤ 8'-0"	400S162-43	SEE ELEVATION (A)
>8'-0" ≤ 14'-0"	(2)400S162-43	SEE ELEVATION (B)





LEVEL 1 FOUNDATION PLAN  
1/8" = 1'-0" NORTH

PLAN NOTES:

- ELEVATION TOP OF CONCRETE SLAB SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS, UNLESS NOTED OTHERWISE THUS (±0'-0")
- SLAB ON GRADE SHALL BE 5" THICK w/ #5@16" c.c. EACH WAY OVER PREPARED SUBGRADE PER GEOTECHNICAL'S RECOMMENDATION. 5" THICK MINIMUM AT THE DRAIN. SLAB THICKNESS VARIES PER SLOPE TO DRAIN PER ARCHITECTURAL DRAWINGS.
- ALL FOOTINGS SHALL BE CENTERED UNDER WALLS OR COLUMNS, UNLESS NOTED OTHERWISE.
- FOR GENERAL NOTES SEE S0 SERIES SHEETS.
- FOR TYPICAL DETAILS SEE S0 SERIES SHEETS. DETAILS AND SCHEDULES INDICATED AS 'TYPICAL' MAY NOT BE SPECIFICALLY REFERENCED ON DRAWINGS. DETERMINE WHERE EACH TYPICAL DETAIL OR SCHEDULE APPLIES BEFORE PROCEEDING WITH WORK.
- SEE ARCHITECTURAL DRAWINGS FOR CONCRETE SLAB ELEVATIONS, DEPRESSIONS, SLOPES, OPENINGS, CURBS, DRAINS, TRENCHES, SLAB EDGE LOCATIONS, ETC., AND FOR WALL OVERALL DIMENSIONS, LOCATIONS OF OPENINGS, ETC., NOT INDICATED ON STRUCTURAL DRAWINGS.
- VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF WORK.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND LOCATING ALL OPENINGS THROUGH THE SLAB INCLUDING BUT NOT LIMITED TO ELECTRICAL, MECHANICAL, PLUMBING, SPRINKLER AND TELEPHONE. SUBMIT TO THE STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO SUBMITTAL OF REINFORCING STEEL SHOP DRAWINGS.

PLAN SYMBOLS:

- INDICATE CONCRETE FOOTING MARK. SEE TYPICAL CONCRETE FOOTING SCHEDULE ON S2.11.
- INDICATES ELEVATION TOP OF FOOTING. ALL TOP OF FOOTINGS SHALL BE -1'-6" BELOW LOWEST ADJACENT GRADE OR TOP OF CONCRETE SLAB ON GRADE, U.N.O.
- INDICATES TOP OF CONCRETE SLAB ELEVATION FROM LEVEL DATUM.
- INDICATES SIDE OF SUREBOARD SHEAR WALL.
- INDICATES SUREBOARD SHEAR WALL BELOW.
- INDICATES SUREBOARD SHEAR WALL PER 1/S6.11 AS FOLLOWS: FULLY BLOCKED 22 GAGE SUREBOARD SHEAR WALL PER ICC ES ER-5762 AND LARR 25563 w/(24"x6" PACO COLUMNS AT EACH END.
- INDICATES MINIMUM LENGTH OF SHEAR WALL.
- INDICATES 8" BEARING C.M.U. WALL.

**WILLIAM HEZMALHALCH ARCHITECTS INC.**  
2850 REDHILL AVENUE, SUITE 200, SANTA ANA, CA 92705-5943  
949 250 6037 www.hezmalhalch.com fax 949 250 1529  
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Suite 125  
Santa Ana, CA  
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DO NOT REVISIONS PLANS

NO.	DATE	DESCRIPTION
1	05/18/17	2ND PLAN CHECK SUBMITTAL
	07/14/17	3RD PLAN CHECK SUBMITTAL

**CARWASH BUILDING  
LEVEL 1 FOUNDATION  
PLAN**

SHEET SCALE:	1/8" = 1'-0"
PROJECT MANAGER:	MH
DESIGNER:	JN
DRAWN BY:	FS
REVIEWED BY:	
1st DEPT. SUBMITTAL:	XX/2016
ISSUED FOR CONST.:	
JOB NUMBER	16-5003
CAD FILE NAME	

S1.11

2ND BUILDING PLAN CHECK COORDINATION 05.18.2017

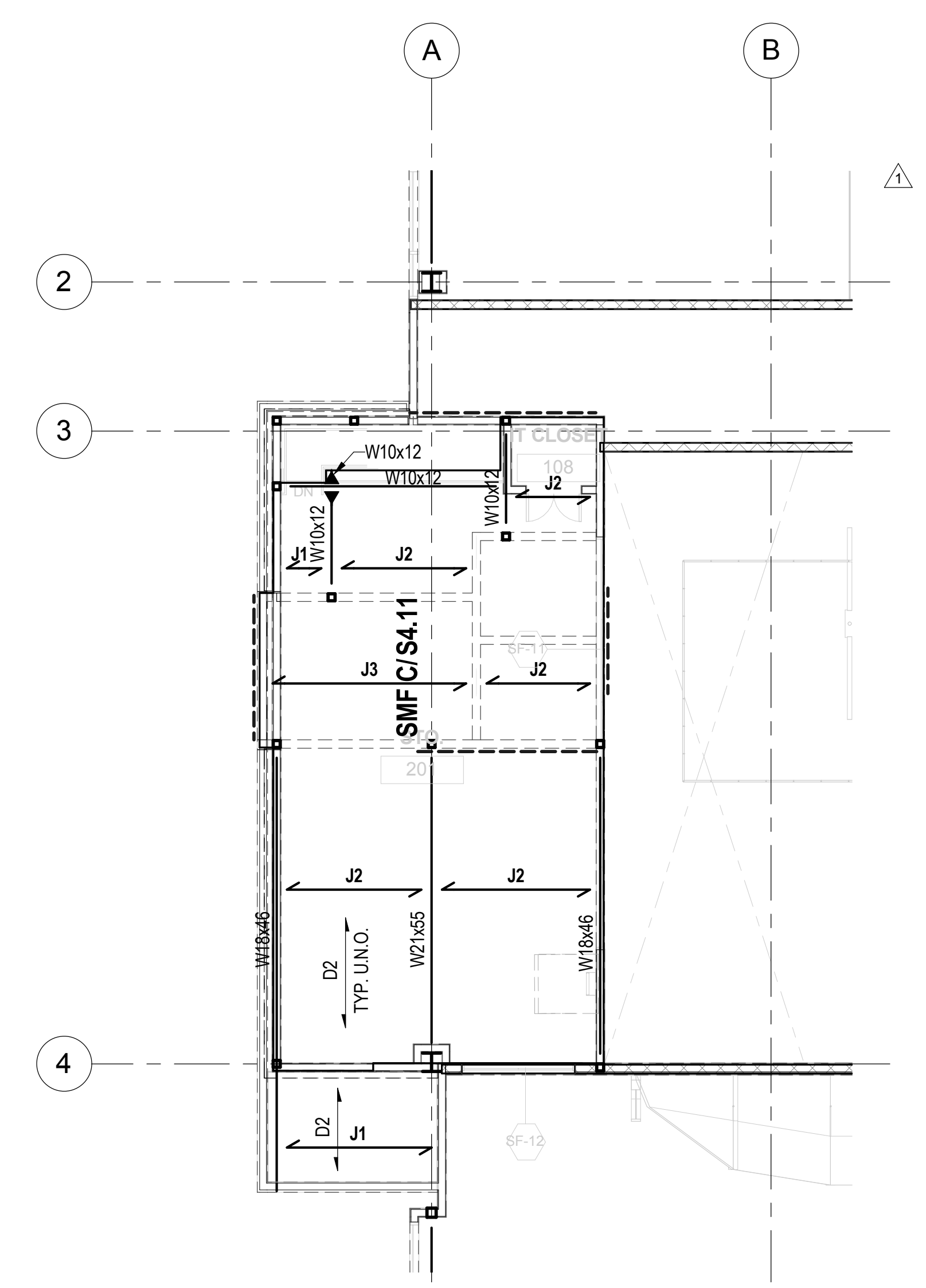


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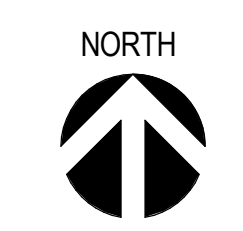


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 3621 Harbor Boulevard  
 Suite 125  
 Santa Ana, CA  
 92704  
 714.557.8551 T  
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**LEVEL 2 FRAMING PLAN**  
 1/8" = 1'-0" A



TYPICAL JOIST SCHEDULE		
MARK	CEMCO TYPE OR EQUAL	MAXIMUM SPAN
J1	1000S200-68 @ 24"o.c.	
J2	(2)1000S200-54 @ 24"o.c.	
J3	(2)1000S200-68 @ 24"o.c.	

**NOTES:**  
 FLOOR JOIST SHALL BE BY "CEMCO" COMPLYING WITH ICC - ESR3016.

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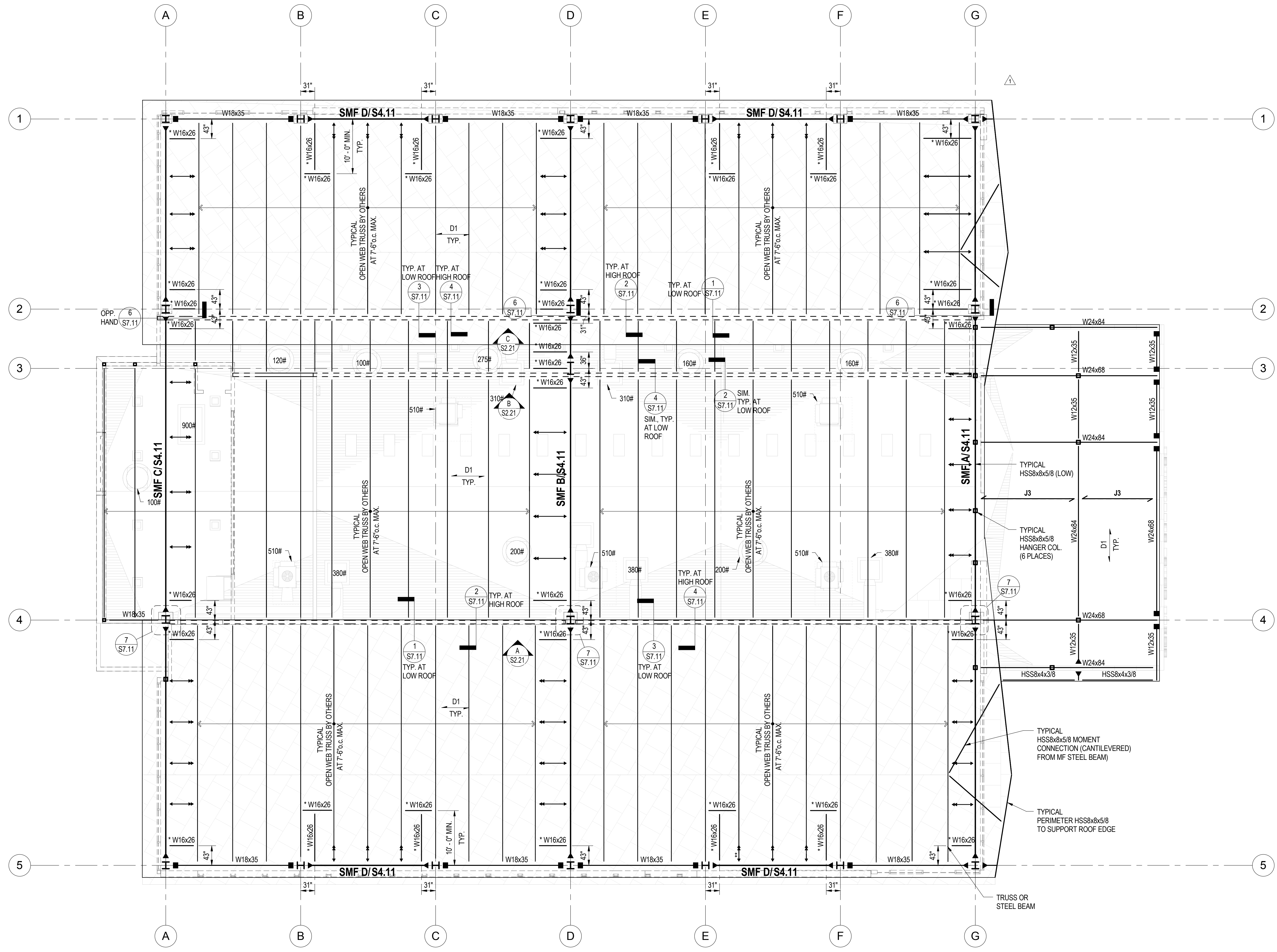
REVISIONS		
NO.	DATE	DESCRIPTION
1	05/18/17	2ND PLAN CHECK SUBMITTAL
	07/14/17	3RD PLAN CHECK SUBMITTAL

**CARWASH BUILDING  
 LEVEL 2 FRAMING PLAN**

SHEET SCALE :	1/8" = 1'-0"
PROJECT MANAGER :	MH
DESIGNER :	JN
DRAWN BY :	FS
REVIEWED BY :	
1st DEPT. SUBMITTAL :	XX/2016
ISSUED FOR CONST. :	
JOB NUMBER :	16-5003
CAD FILE NAME :	

S1.12

2ND BUILDING PLAN CHECK COORDINATION 05.18.2017



**ROOF FRAMING PLAN**  
1/8" = 1'-0"  
A

**NOTES:**

- FOR GENERAL NOTES AND TYPICAL DETAILS, SEE S0 SERIES SHEETS.
- VERIFY ALL DIMENSIONS BEFORE START OF WORK.
- GENERAL NOTE FOR ALL STRUCTURAL FRAMING PLANS: FRAMING CONTRACTOR SHALL COORDINATE WITH MECHANICAL, ELECTRICAL AND PLUMBING FIXTURES, PIPE OR CONDUIT OR MECHANICAL VENT RISERS.

**PLAN SYMBOLS:**

- SMF** INDICATES SEISMIC MOMENT FRAME MARK, SEE REFERENCE FRAME ELEVATION FOR COLUMN AND BEAM SIZES AND BASE PLATE INFORMATION. SEE DETAIL 3/S4.22 FOR LATERAL BRACING OF SMF w/ W16x BEAMS.
- ← INDICATES L4x4x1/2 BRACE PER 2/S0.53
- D1** INDICATES DECK SPAN DIRECTION AND TYPE PER SCHEDULE ON 1/S0.61.
- \* INDICATES BEAM WITH PRETENSIONED BOLTS WITH CLASS A FAYING SURFACE CONNECTION ON BOTH ENDS.
- INDICATES BRACED BEAM FLANGE CONNECTION, SEE DETAIL 1/S0.52.

TYPICAL JOIST SCHEDULE		
MARK	CEMCO TYPE OR EQUAL	MAXIMUM SPAN
J1	1000S200-68 @ 24"o.c.	
J2	(2)1000S200-54 @ 24"o.c.	
J3	(2)1000S200-68 @ 24"o.c.	

**NOTES:**  
FLOOR JOIST SHALL BE BY "CEMCO" COMPLYING WITH ICC - ESR3016.



**SOUTH COAST SPEEDWASH AT THE AUTOBAHN**  
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**BRISTOL SPEEDWASH, INC.**  
10801 NATIONAL BLVD., STE 510 LOS ANGELES, CA. 90064

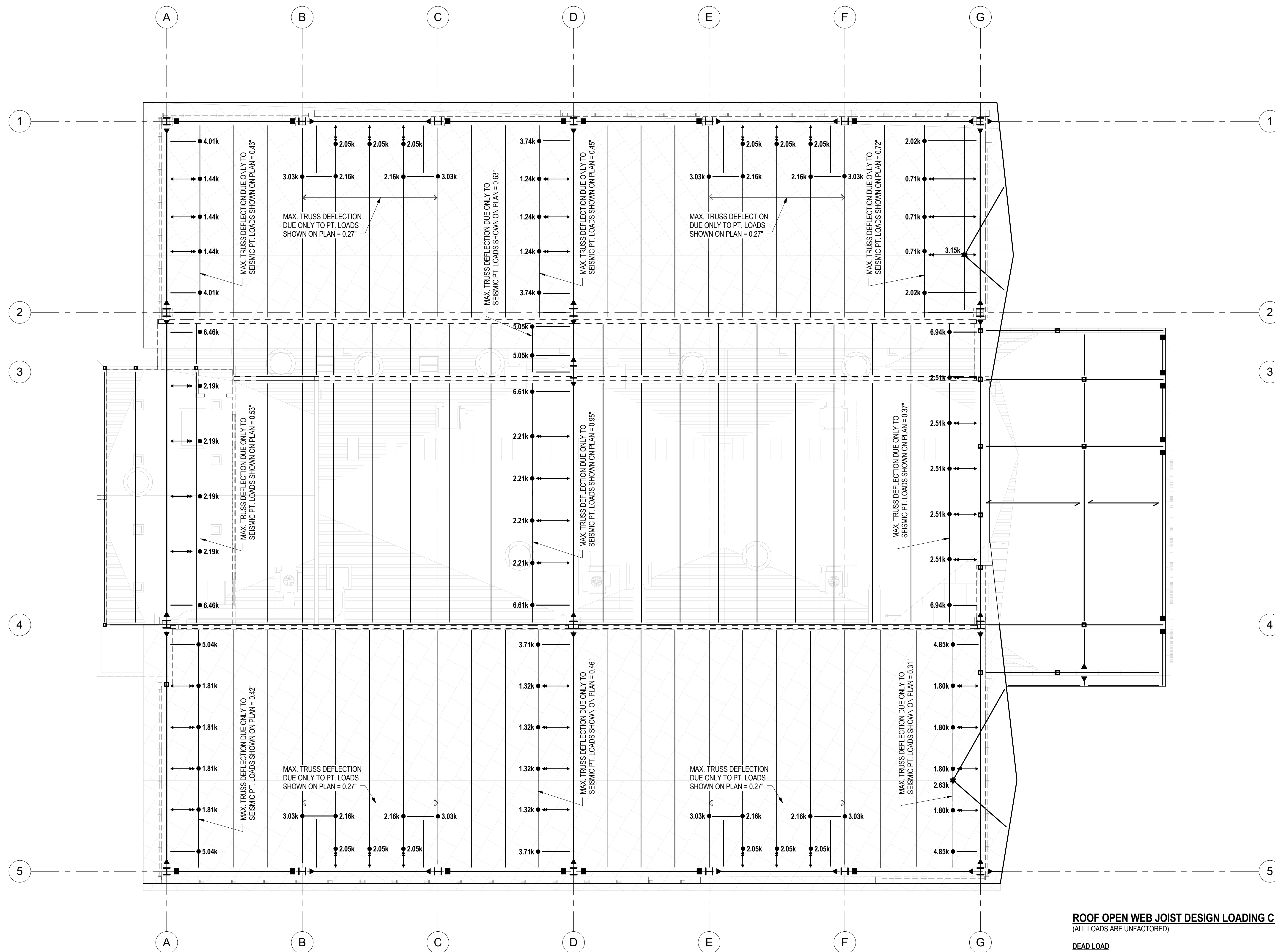
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**REVISIONS**

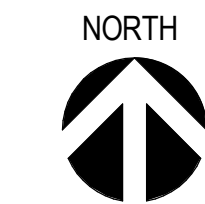
NO.	DATE	DESCRIPTION
1	05/18/17	2ND PLAN CHECK SUBMITTAL
	07/14/17	3RD PLAN CHECK SUBMITTAL

**CARWASH BUILDING ROOF FRAMING PLAN**

SHEET SCALE:	1/8" = 1'-0"
PROJECT MANAGER:	MH
DESIGNER:	JN
DRAWN BY:	FS
REVIEWED BY:	
1st DEPT. SUBMITTAL:	XX/2016
ISSUED FOR CONST.:	
JOB NUMBER:	16-5003
CAD FILE NAME:	



TRUSS LOAD PLAN  
1/8" = 1'-0"



**ROOF OPEN WEB JOIST DESIGN LOADING CRITERIA**  
(ALL LOADS ARE UNFACTORED)

- DEAD LOAD**  
1. DEAD LOADS AND LIVE LOADS ARE CALCULATED BASED ON 19 PSF AND 20 PSF UNIFORM LOAD, RESPECTIVELY.
2. APPLY ADDITIONAL MEP EQUIPMENT LOAD ON ROOF. SEE MECHANICAL DRAWINGS FOR WEIGHTS AND LOCATIONS OF THE EQUIPMENTS.
3. ROOF HUNG LOADS PER ELECTRICAL, PLUMBING, MECHANICAL, ARCHITECTURAL DRAWINGS. ANY CONCENTRATED HANGING LOAD SHALL BE LOCATED AT PANEL POINT. GENERAL CONTRACTOR TO COORDINATE.
4. APPLY ADDITIONAL SPRINKLER MAINS AND SWAY BRACE LOADS PER SPRINKLER DRAWINGS.
5. THE ALLOWABLE DEFLECTION SHALL BE LIMITED TO:  
- L/240 FOR LIVE LOAD ONLY  
- L/180 FOR TOTAL LOAD
6. APPLY 38 PLF DEAD LOAD ON BOTTOM CHORD FOR CEILING LOAD. TOTAL LOAD SHOWN ON NOTE 1 INCLUDES THIS CEILING LOAD.
7. ALL TRUSSES SHALL BE DESIGNED FOR A POINT LOAD OF 500# HUNG FROM THE BOTTOM CHORD FOR ANY CARWASH EQUIPMENT.
- SEISMIC LOAD**  
1. APPLY SEISMIC LOAD PER PLAN AT THE BRACES AS INDICATED BY ●.
2. APPLY SEISMIC LOAD AT C.M.U. WALL CONNECTION PER DETAILS 1/S7.11 AND 2/S7.11.
- WIND LOAD**  
1. APPLY WIND LOAD DOWNWARD PER PLAN AS INDICATED BY ★.

**WILLIAM HEZMALHALCH ARCHITECTS INC.**  
2850 REDHILL AVENUE, SUITE 200, SANTA ANA, CA 92705-5943  
949 250 9377 www.whoarchitects.com fax 949 250 1529  
6111 BOLLINGER CANYON ROAD, SUITE 405 SAN RAMON, CA 94583-9186  
925 463 1700 fax 925 463 1725



**Englekirk**  
STRUCTURAL ENGINEERS  
3621 Harbor Boulevard  
Suite 125  
Santa Ana, CA  
92704  
714.557.8551 T  
www.englekirk.com 714.557.8551 F

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2402 BRISTOL ST. SANTA ANA, CA 92704

**BRISTOL SPEEDWASH, INC.**  
10801 NATIONAL BLVD., STE 510 LOS ANGELES, CA. 90064

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**REVISIONS**

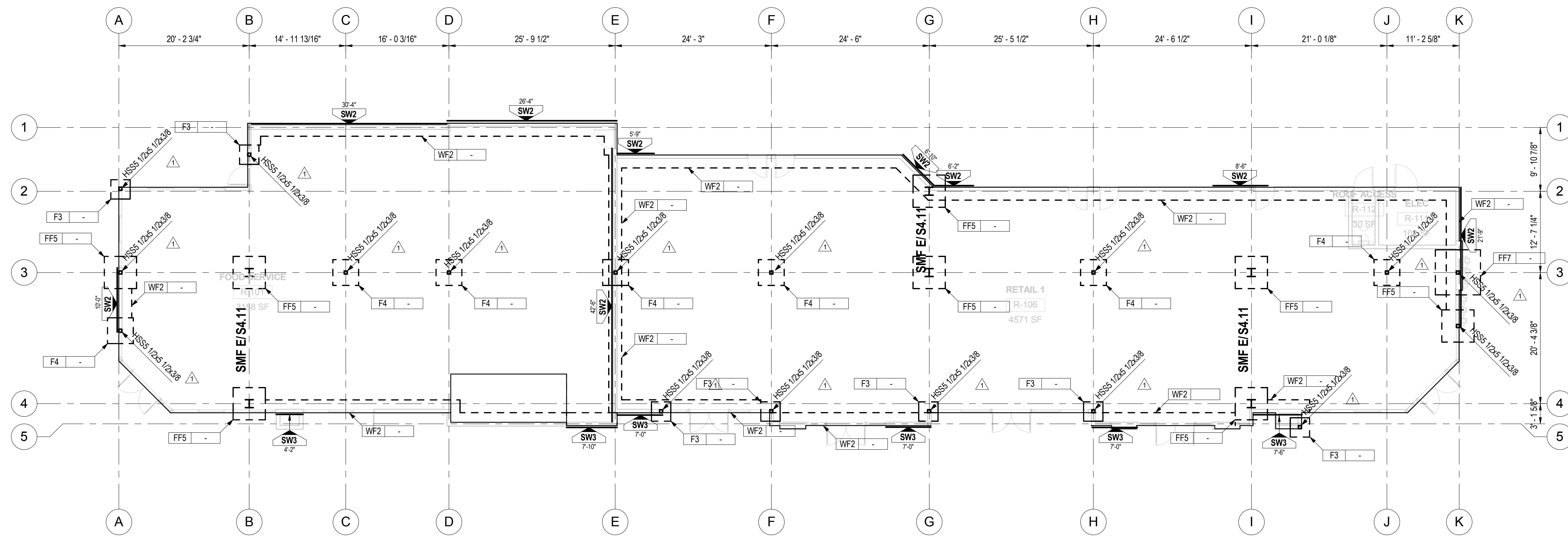
NO.	DATE	DESCRIPTION
1	05/18/17	2ND PLAN CHECK SUBMITTAL
	07/14/17	3RD PLAN CHECK SUBMITTAL

**CARWASH BUILDING TRUSS LOAD PLAN**

SHEET SCALE:	1/8" = 1'-0"
PROJECT MANAGER:	MH
DESIGNER:	JN
DRAWN BY:	FS
REVIEWED BY:	
1st DEPT. SUBMITTAL:	XX/2016
ISSUED FOR CONST.:	
JOB NUMBER:	16-5003
CAD FILE NAME:	

S1.13A

2ND BUILDING PLAN CHECK COORDINATION 05.18.2017



LEVEL 1 FOUNDATION PLAN  
1/8" = 1'-0" A

**PLAN NOTES:**

- ELEVATION TOP OF CONCRETE SLAB SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS, UNLESS NOTED OTHERWISE THUS (±0'-0")
- SLAB ON GRADE SHALL BE 5" THICK W/ #5@16" EACH WAY OVER PREPARED SUBGRADE PER GEOTECHNICALS RECOMMENDATION. 5" THICK MINIMUM AT THE DRAIN. SLAB THICKNESS VARIES PER SLOPE TO DRAIN PER ARCHITECTURAL DRAWINGS.
- ALL FOOTINGS SHALL BE CENTERED UNDER WALLS OR COLUMNS, UNLESS NOTED OTHERWISE.
- FOR GENERAL NOTES SEE S0 SERIES SHEETS.
- FOR TYPICAL DETAILS SEE S0 SERIES SHEETS. DETAILS AND SCHEDULES INDICATED AS 'TYPICAL' MAY NOT BE SPECIFICALLY REFERENCED ON DRAWINGS. DETERMINE WHERE EACH TYPICAL DETAIL OR SCHEDULE APPLIES BEFORE PROCEEDING WITH WORK.
- SEE ARCHITECTURAL DRAWINGS FOR CONCRETE SLAB ELEVATIONS, DEPRESSIONS, SLOPES, OPENINGS, CURBS, DRAINS, TRENCHES, SLAB EDGE LOCATIONS, ETC., AND FOR WALL OVERALL DIMENSIONS, LOCATIONS OF OPENINGS, ETC., NOT INDICATED ON STRUCTURAL DRAWINGS.
- VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF WORK.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND LOCATING ALL OPENINGS THROUGH THE SLAB INCLUDING BUT NOT LIMITED TO ELECTRICAL, MECHANICAL, PLUMBING, SPRINKLER AND TELEPHONE. SUBMIT TO THE STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO SUBMITTAL OF REINFORCING STEEL SHOP DRAWINGS.

**PLAN SYMBOLS:**

- INDICATE CONCRETE FOOTING MARK. SEE TYPICAL CONCRETE FOOTING SCHEDULE ON S2.11.
- INDICATES ELEVATION TOP OF FOOTING. ALL TOP OF FOOTINGS SHALL BE -1'-6" BELOW LOWEST ADJACENT GRADE OR TOP OF CONCRETE SLAB ON GRADE, U.N.O.
- INDICATES TOP OF CONCRETE SLAB ELEVATION FROM LEVEL DATUM.
- INDICATES SIDE OF SHEAR WALL PLYWOOD TO BE NAILED.
- INDICATES WOOD SHEAR WALL MARK PER SCHEDULE 1/SS.11
- INDICATES MINIMUM LENGTH OF SHEAR WALL



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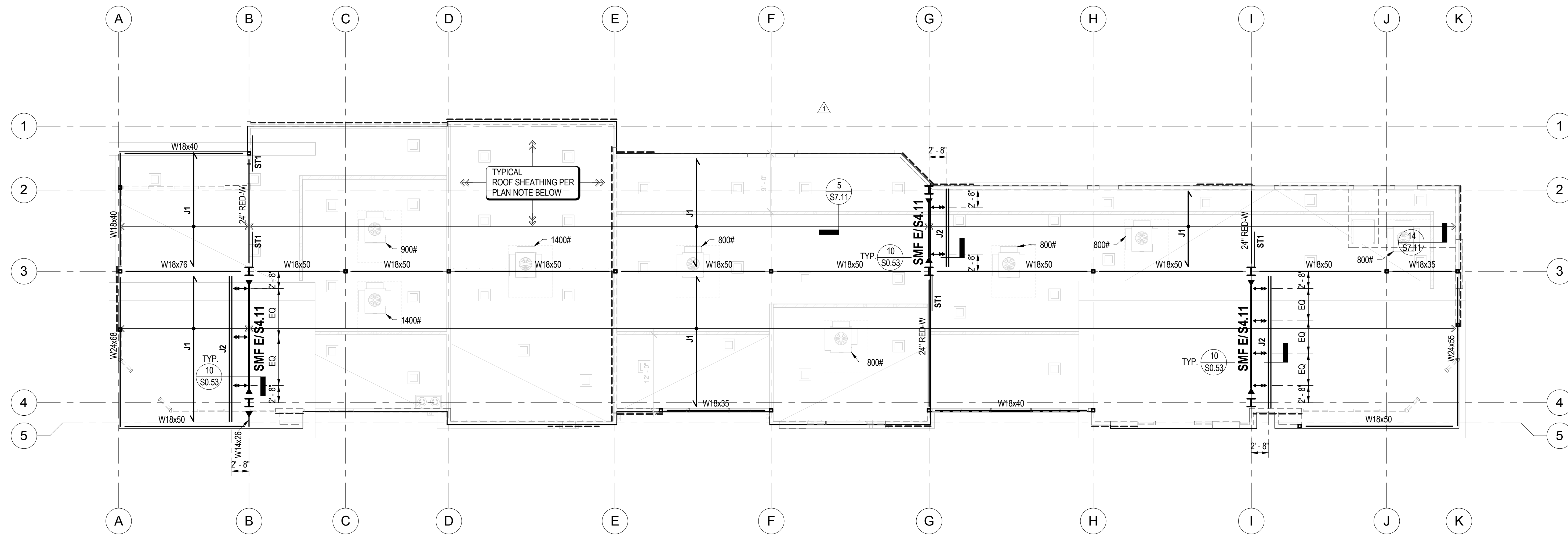
DO NOT SCALE PLANS

REVISIONS		
NO.	DATE	DESCRIPTION
1	05/18/17	2ND PLAN CHECK SUBMITTAL
	07/14/17	3RD PLAN CHECK SUBMITTAL

**RETAIL BUILDING FOUNDATION PLAN**

SHEET SCALE :	1/8" = 1'-0"
PROJECT MANAGER :	MH
DESIGNER :	JN
DRAWN BY :	FS
REVIEWED BY :	
1st DEPT. SUBMITTAL :	XX/2016
ISSUED FOR CONST. :	
JOB NUMBER :	16-5003
CAD FILE NAME :	

S1.21



ROOF FRAMING PLAN  
1/8" = 1'-0" A

**NOTES:**

- FOR GENERAL NOTES AND TYPICAL DETAILS, SEE S0 SERIES SHEETS.
- VERIFY ALL DIMENSIONS BEFORE START OF WORK.
- ROOF SHEATHING TO BE 3/4" CDX PLYWOOD WITH 10d NAILS @ 4:6:12, UNLESS NOTED OTHERWISE. BLOCK ALL EDGES (ALLOWABLE VALUE = XXX PLF)
- SPLICE ALL DOUBLE PLATES PER DETAIL -J-, UNLESS NOTED OTHERWISE.
- ALL NAILS SHALL BE COMMON NAILS.
- ALL HARDWARE BY SIMPSON OR APPROVED EQUAL.
- SHEATH ALL EXTERIOR WALLS WITH 1/2" CDX PLYWOOD, UNLESS NOTED OTHERWISE. PLYWOOD NAILING SHALL BE 8d @ X'o.c. AT ALL EDGES AND 8d @ X'o.c. AT ALL INTERMEDIATE SUPPORTS MINIMUM.
- NO PENETRATIONS ARE ALLOWED THROUGH SHEAR WALLS UNLESS SPECIFICALLY DETAILED ON THESE PLANS.
- GENERAL NOTE FOR ALL STRUCTURAL FRAMING PLANS \*FRAMING CONTRACTOR SHALL COORDINATE WITH MECHANICAL, ELECTRICAL AND PLUMBING FIXTURES, PIPE OR CONDUIT OR MECHANICAL VENT RISERS.
- PROVIDE HEADER PER TYPICAL HEADER SCHEDULE ABOVE OPENINGS IN BEARING WALLS.

**PLAN SYMBOLS:**

- J#** INDICATES JOIST MARK PER JOIST SCHEDULE ON THIS SHEET.
- SMF** INDICATES SEISMIC MOMENT FRAME MARK, SEE REFERENCE FRAME ELEVATION FOR COLUMN AND BEAM SIZES AND BASE PLATE INFORMATION. SEE DETAIL 3/S4.22 FOR LATERAL BRACING OF SMF w/ W16x BEAMS.
- ←→ INDICATES L4x4x1/2 BRACE PER 10/S0.53

**JOIST SCHEDULE**

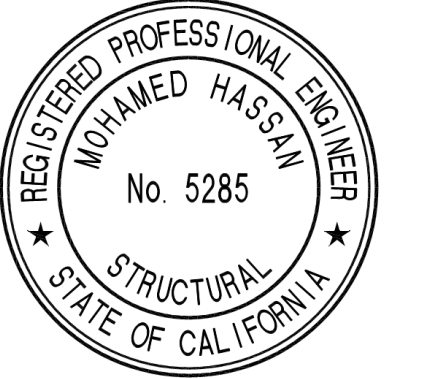
MARK	JOIST SIZE AND SPACING	REMARKS
J1	24" RED-W @ 32"o.c.	
J2	(2)24" RED-W	

NOTES:

**STRAP SCHEDULE**

MARK	SIMPSON STRAP	REMARKS
ST1	CMST16 x 4'-0"	

NOTES:



**SOUTH COAST SPEEDWASH AT THE AUTOBAHN**  
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**BRISTOL SPEEDWASH, INC.**  
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DO NOT SCALE PLANS

**REVISIONS**

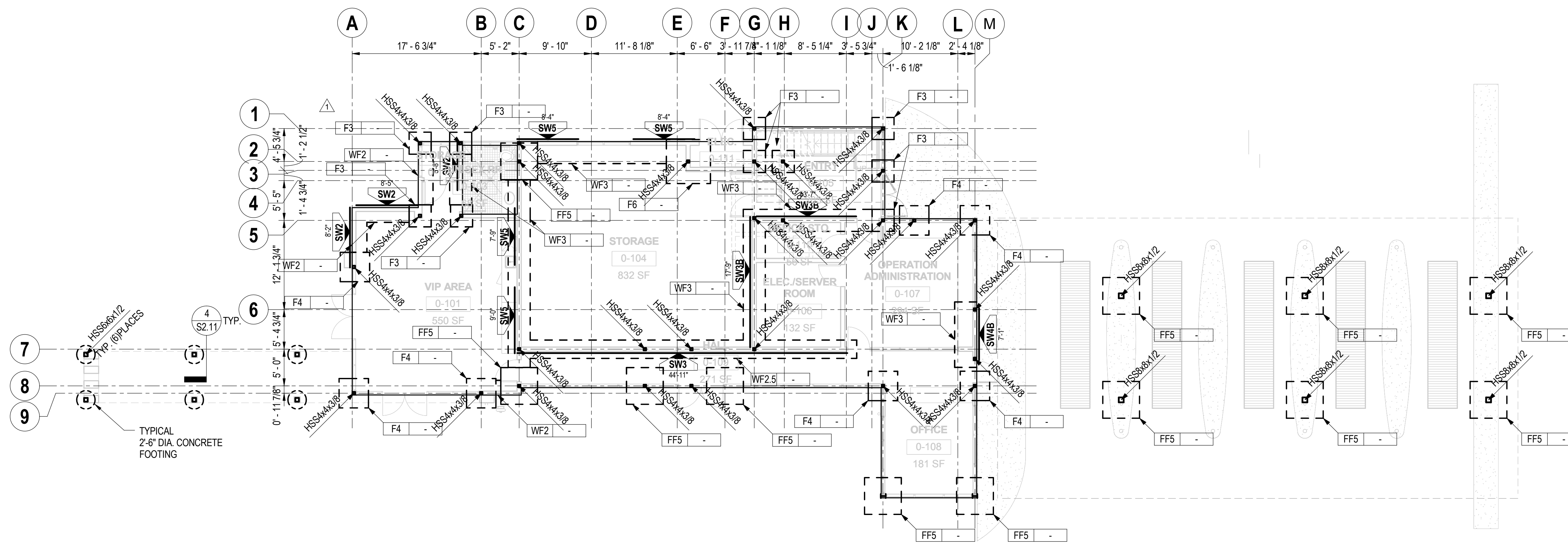
NO.	DATE	DESCRIPTION
1	05/18/17	2ND PLAN CHECK SUBMITTAL
	07/14/17	3RD PLAN CHECK SUBMITTAL

**RETAIL BUILDING ROOF FRAMING PLAN**

SHEET SCALE :	1/8" = 1'-0"
PROJECT MANAGER :	MH
DESIGNER :	JN
DRAWN BY :	FS
REVIEWED BY :	
1st DEPT. SUBMITTAL :	XX/2016
ISSUED FOR CONST. :	
JOB NUMBER	16-5003
CAD FILE NAME	

S1.22





LEVEL 1 FOUNDATION PLAN  
1/8" = 1'-0" A

**PLAN NOTES:**

- ELEVATION TOP OF CONCRETE SLAB SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS, UNLESS NOTED OTHERWISE THUS (±0'-0")
- SLAB ON GRADE SHALL BE 5" THICK w/ #5@16" EACH WAY OVER PREPARED SUBGRADE PER GEOTECHNICAL'S RECOMMENDATION. 5" THICK MINIMUM AT THE DRAIN. SLAB THICKNESS VARIES PER SLOPE TO DRAIN PER ARCHITECTURAL DRAWINGS.
- ALL FOOTINGS SHALL BE CENTERED UNDER WALLS OR COLUMNS, UNLESS NOTED OTHERWISE.
- FOR GENERAL NOTES SEE S0 SERIES SHEETS.
- FOR TYPICAL DETAILS SEE S0 SERIES SHEETS. DETAILS AND SCHEDULES INDICATED AS 'TYPICAL' MAY NOT BE SPECIFICALLY REFERENCED ON DRAWINGS. DETERMINE WHERE EACH TYPICAL DETAIL OR SCHEDULE APPLIES BEFORE PROCEEDING WITH WORK.
- SEE ARCHITECTURAL DRAWINGS FOR CONCRETE SLAB ELEVATIONS, DEPRESSIONS, SLOPES, OPENINGS, CURBS, DRAINS, TRENCHES, SLAB EDGE LOCATIONS, ETC., AND FOR WALL OVERALL DIMENSIONS, LOCATIONS OF OPENINGS, ETC., NOT INDICATED ON STRUCTURAL DRAWINGS.
- VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF WORK.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND LOCATING ALL OPENINGS THROUGH THE SLAB INCLUDING BUT NOT LIMITED TO ELECTRICAL, MECHANICAL, PLUMBING, SPRINKLER AND TELEPHONE. SUBMIT TO THE STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO SUBMITTAL OF REINFORCING STEEL SHOP DRAWINGS.

**PLAN SYMBOLS:**

- INDICATE CONCRETE FOOTING MARK. SEE TYPICAL CONCRETE FOOTING SCHEDULE ON S2.11.
- INDICATES ELEVATION TOP OF FOOTING. ALL TOP OF FOOTINGS SHALL BE -1'-6" BELOW LOWEST ADJACENT GRADE OR TOP OF CONCRETE SLAB ON GRADE, U.N.O.
- INDICATES SLAB ELEVATION DROP, SEE PLAN.
- INDICATES TOP OF CONCRETE SLAB ELEVATION FROM LEVEL DATUM.
- INDICATES SIDE OF SHEAR WALL PLYWOOD TO BE NAILED.
- INDICATES WOOD SHEAR WALL MARK PER SCHEDULE 1/SS.11
- INDICATES MINIMUM LENGTH OF SHEAR WALL.



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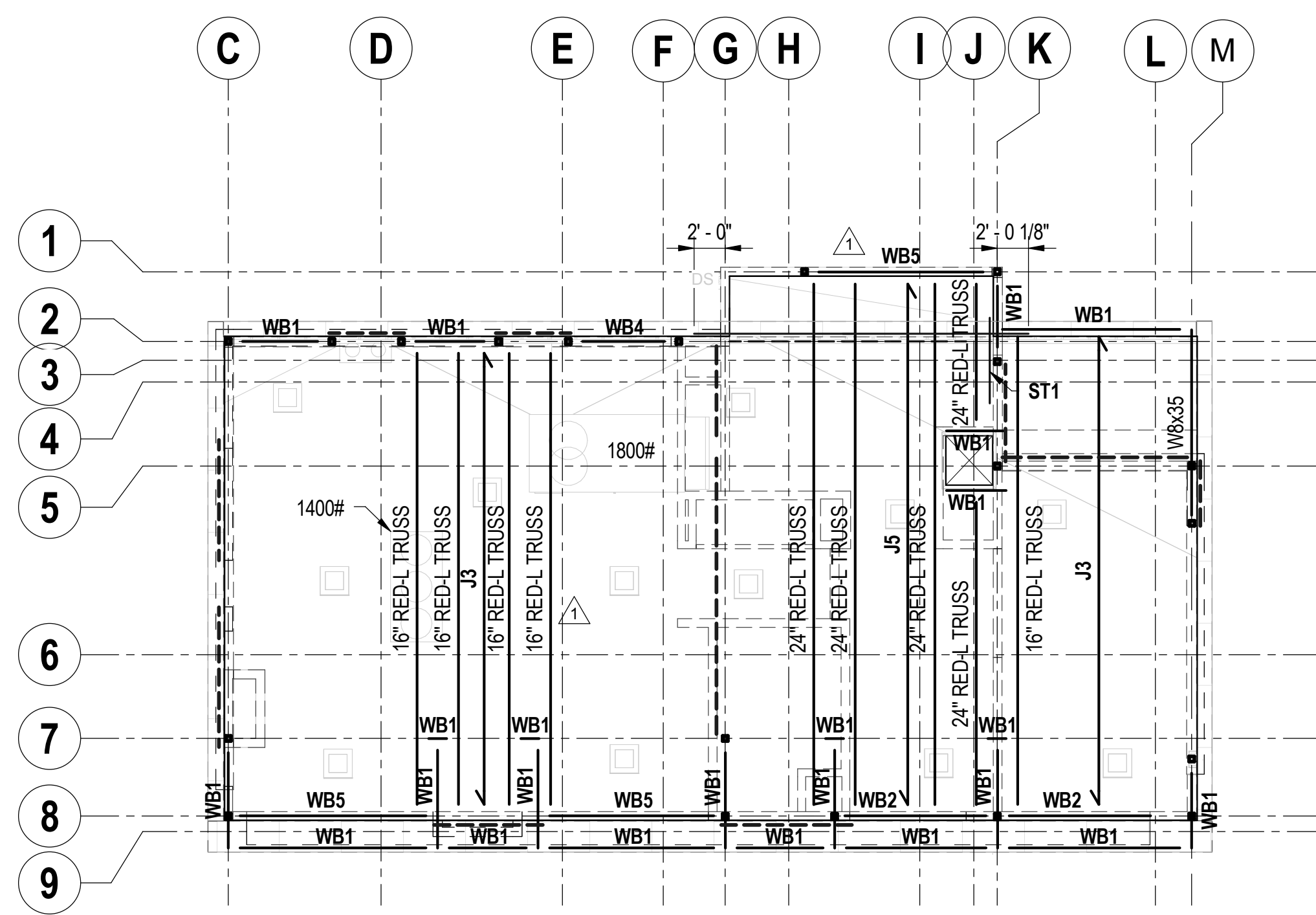
**REVISIONS**

NO.	DATE	DESCRIPTION
1	05/18/17	2ND PLAN CHECK SUBMITTAL
	07/14/17	3RD PLAN CHECK SUBMITTAL

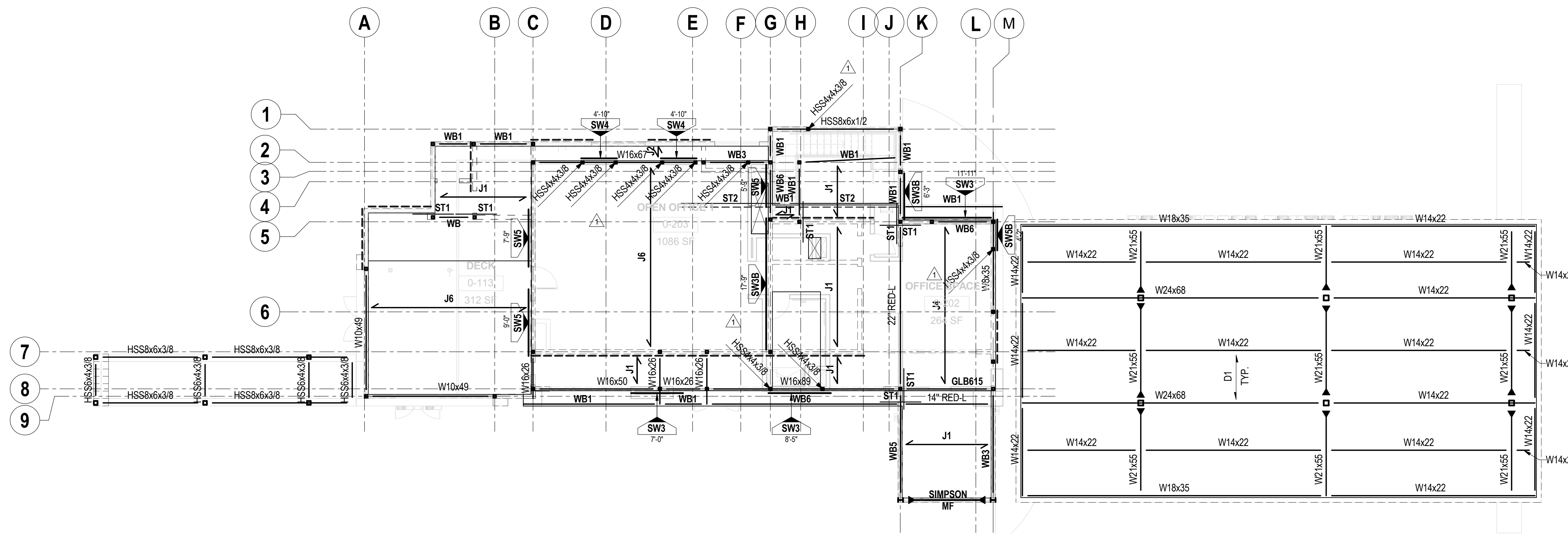
**OPERATIONS BUILDING FOUNDATION PLAN**

SHEET SCALE :	1/8" = 1'-0"
PROJECT MANAGER :	MH
DESIGNER :	JN
DRAWN BY :	FS
REVIEWED BY :	
1st DEPT. SUBMITTAL :	XX/2016
ISSUED FOR CONST. :	
JOB NUMBER	16-5003
CAD FILE NAME	

S1.31



ROOF FRAMING PLAN B  
1/8" = 1'-0"



LEVEL 2 FRAMING PLAN A  
1/8" = 1'-0"

NOTES:

- FOR GENERAL NOTES AND TYPICAL DETAILS, SEE S0 SERIES SHEETS.
- VERIFY ALL DIMENSIONS BEFORE START OF WORK.
- FLOOR SHEATHING TO BE 3/4" CDX PLYWOOD WITH 10d NAILS @ 4:6:12, UNLESS NOTED OTHERWISE. BLOCK ALL EDGES (ALLOWABLE VALUE = XXX PLF).
- ROOF SHEATHING TO BE 3/4" CDX PLYWOOD WITH 10d NAILS @ 4:6:12, UNLESS NOTED OTHERWISE. BLOCK ALL EDGES (ALLOWABLE VALUE = XXX PLF).
- SPLICE ALL DOUBLE PLATES PER DETAIL J-. UNLESS NOTED OTHERWISE.
- ALL NAILS SHALL BE COMMON NAILS.
- ALL HARDWARE BY SIMPSON OR APPROVED EQUAL.
- SHEATH ALL EXTERIOR WALLS WITH X" CDX PLYWOOD, UNLESS NOTED OTHERWISE. PLYWOOD NAILING SHALL BE 8d @ X" o.c. AT ALL EDGES AND 8d @ X" o.c. AT ALL INTERMEDIATE SUPPORTS MINIMUM.
- NO PENETRATIONS ARE ALLOWED THROUGH SHEAR WALLS UNLESS SPECIFICALLY DETAILED ON THESE PLANS.
- GENERAL NOTE FOR ALL STRUCTURAL FRAMING PLANS \*FRAMING CONTRACTOR SHALL COORDINATE WITH MECHANICAL, ELECTRICAL AND PLUMBING FIXTURES, PIPE OR CONDUIT OR MECHANICAL VENT RISERS.
- PROVIDE HEADER PER TYPICAL HEADER SCHEDULE ABOVE OPENINGS IN BEARING WALLS.

PLAN SYMBOLS:

- INDICATES WALL ABOVE.
- INDICATES WALLS BELOW.
- INDICATES FLOOR/ROOF JOIST MARK, SEE SCHEDULE ON PLAN.
- INDICATES WOOD BEAM MARK, SEE SCHEDULE ON PLAN.
- INDICATES GLU-LAM BEAM MARK, SEE SCHEDULE ON PLAN.
- INDICATES SIDE OF SHEAR WALL PLYWOOD TO BE NAILED.
- INDICATES SHEAR WALL BELOW.
- INDICATES WOOD SHEAR WALL MARK PER SCHEDULE 1/S5.11.
- INDICATES MINIMUM LENGTH OF SHEAR WALL.
- INDICATES DECK SPAN DIRECTION AND TYPE PER SCHEDULE ON 1/S0.61.

JOIST SCHEDULE		
MARK	JOIST SIZE AND SPACING	REMARKS
J1	14" RED-L @ 16" o.c.	
J2	14" RED-L @ 24" o.c.	
J3	16" RED-L @ 32" o.c.	
J4	22" RED-L @ 16" o.c.	
J5	24" RED-L @ 32" o.c.	
J6	24" RED-W @ 16" o.c.	

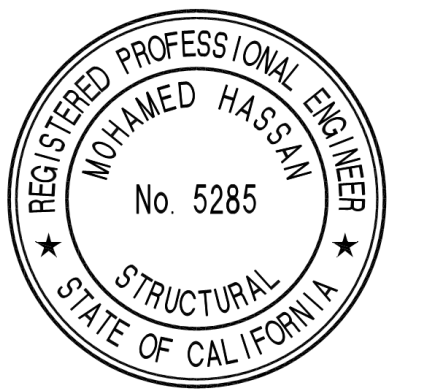
NOTES:

WOOD BEAM SCHEDULE		
MARK	BEAM SIZE	REMARKS
WB1	6x12 D.F.#1	
WB2	6x14 D.F.#1	
WB3	6x14 D.F.#SS	
WB4	8x12 #SS	
WB5	8x14 #SS	
WB6	8x14 D.F.#1	
GLB615	6 3/4 x 15 GLULAM BEAM	

NOTES:

STRAP SCHEDULE		
MARK	SIMPSON STRAP	REMARKS
ST1	CMST16 x 4'-0"	
ST2	CMST16 x PER PLAN	

NOTES:  
1. PROVIDE 2x FRAMING OR BLOCKING w/E.N. AS NEEDED AT STRAP U.N.O.



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DO NOT SCALE PLANS

REVISIONS		
NO.	DATE	DESCRIPTION
1	05/18/17	2ND PLAN CHECK SUBMITTAL
	07/14/17	3RD PLAN CHECK SUBMITTAL

OPERATIONS BUILDING  
LEVEL 2, CARPORT AND  
ROOF FRAMING PLANS

SHEET SCALE :	1/8" = 1'-0"
PROJECT MANAGER :	MH
DESIGNER :	JN
DRAWN BY :	FS
REVIEWED BY :	
1st DEPT. SUBMITTAL :	XX/2016
ISSUED FOR CONST. :	
JOB NUMBER :	16-5003
CAD FILE NAME :	



**WILLIAM HEZMALHALCH ARCHITECTS INC.**  
 2850 REDHILL AVENUE, SUITE 200 SANTA ANA, CA 92705-5943  
 949 250 6037 www.whearchitects.com fax 949 250 1529  
 6111 ROLLINGER CANYON ROAD, SUITE 405 SAN RAMON, CA 94583-9186  
 925 463 1700 fax 925 463 1725



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 STRUCTURAL ENGINEERS  
 3621 Harbor Boulevard  
 Suite 125  
 Santa Ana, CA  
 92704  
 714.557.8551 T  
 714.557.8551 F  
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**SOUTH COAST SPEEDWASH AT THE AUTOBAHN**  
 2402 BRISTOL ST. SANTA ANA, CA 92704

**BRISTOL SPEEDWASH, INC.**  
 10801 NATIONAL BLVD., STE 510 LOS ANGELES, CA. 90064

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DO NOT SCALE PLANS

**REVISIONS**

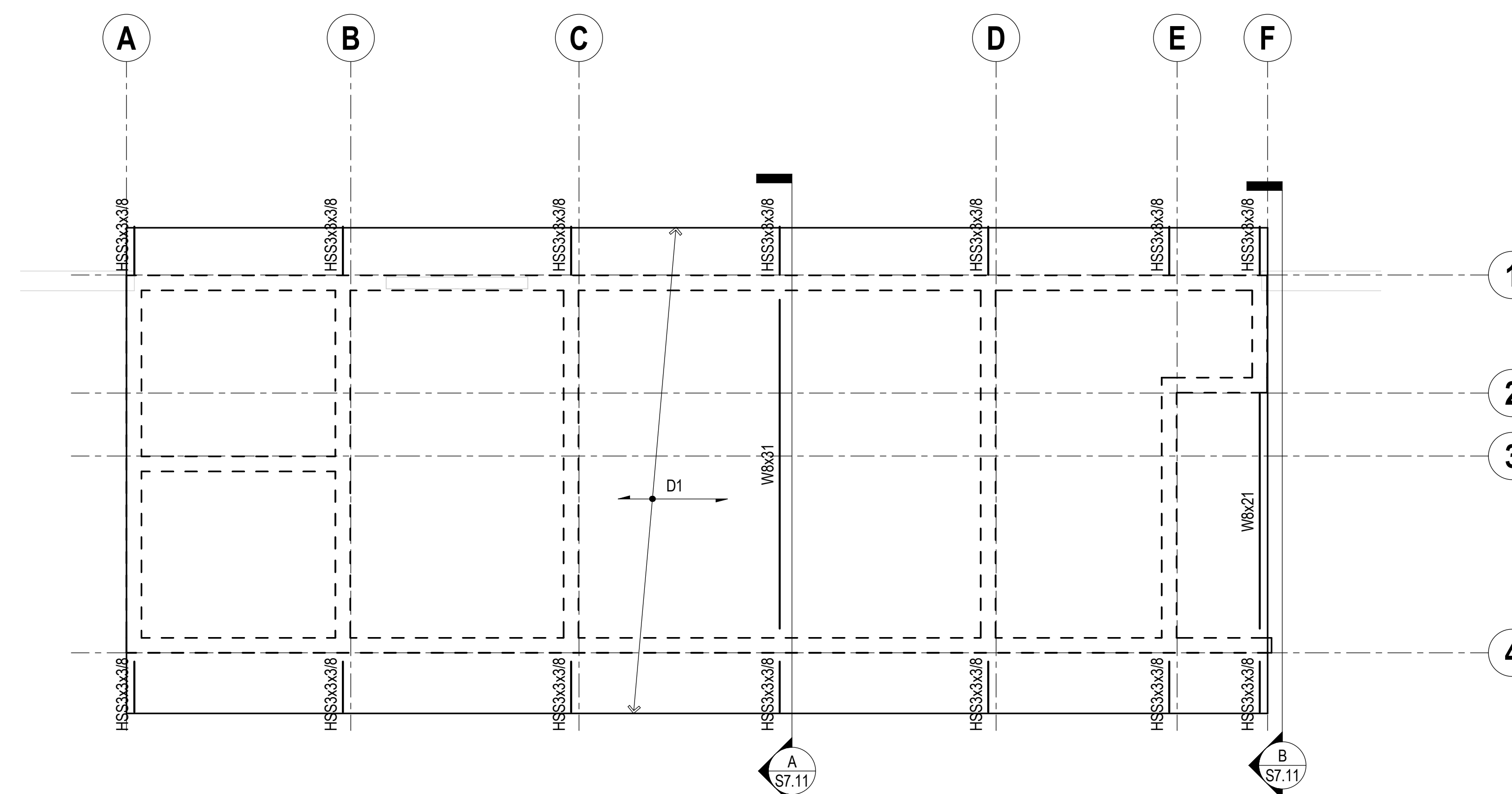
NO.	DATE	DESCRIPTION
	07/14/17	3RD PLAN CHECK SUBMITTAL

**VACUUM STORAGE BUILDING FOUNDATION AND ROOF FRAMING PLAN**

SHEET SCALE:	1/4" = 1'-0"
PROJECT MANAGER:	MH
DESIGNER:	JN
DRAWN BY:	FS
REVIEWED BY:	
1st DEPT. SUBMITTAL:	XX/2016
ISSUED FOR CONST.:	
JOB NUMBER:	16-5003
CAD FILE NAME:	

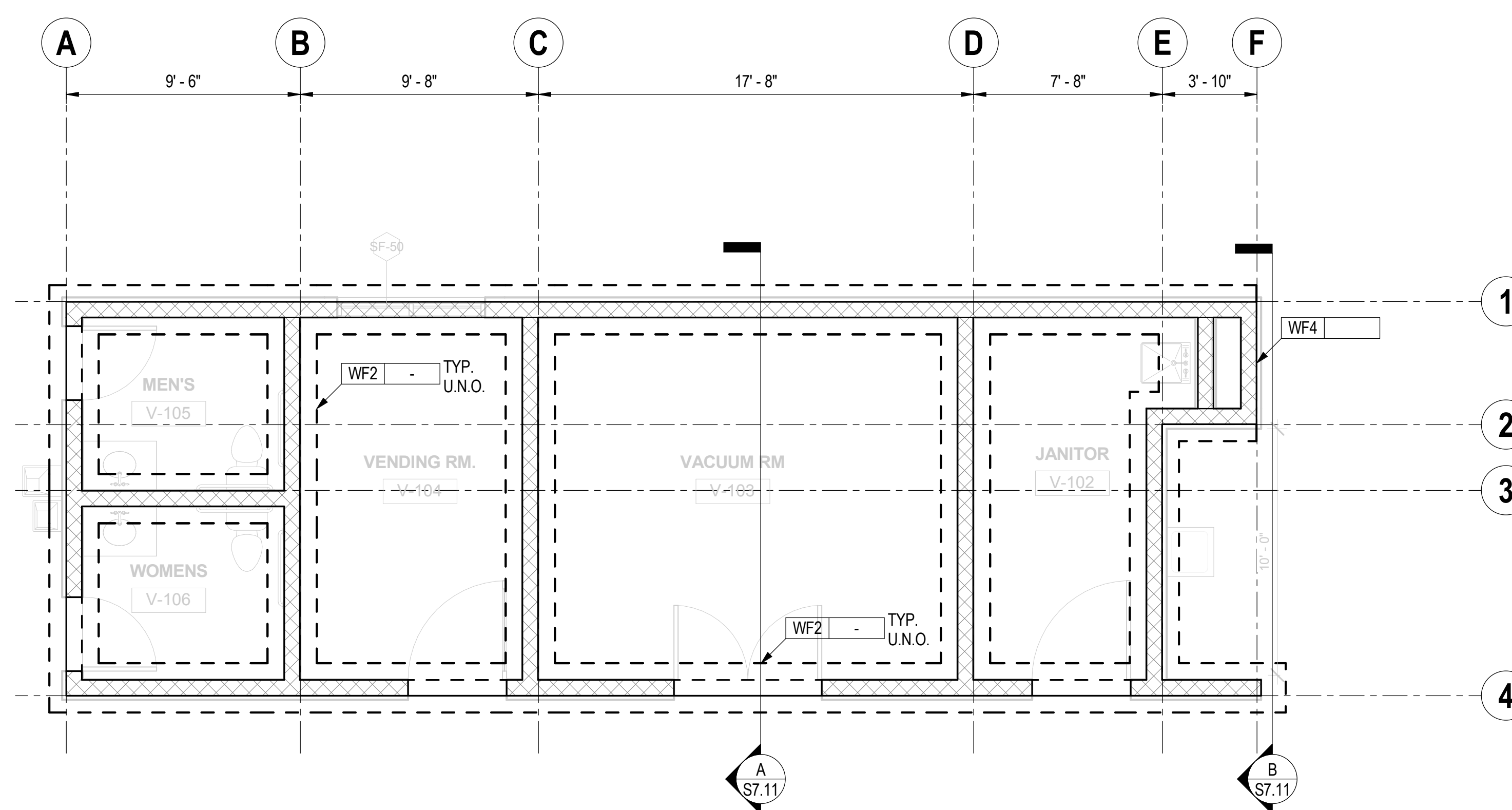
S1.41

2ND BUILDING PLAN CHECK COORDINATION 05.18.2017



**ROOF FRAMING PLAN**

1/4" = 1'-0" B



**FOUNDATION PLAN**

1/4" = 1'-0" A

**PLAN NOTES:**

- ELEVATION TOP OF CONCRETE SLAB SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS, UNLESS NOTED OTHERWISE THUS (+0'-0')
- SLAB ON GRADE SHALL BE 5" THICK w/ #5@16" EACH WAY OVER PREPARED SUBGRADE PER GEOTECHNICAL'S RECOMMENDATION. 5" THICK MINIMUM AT THE DRAIN. SLAB THICKNESS VARIES PER SLOPE TO DRAIN PER ARCHITECTURAL DRAWINGS.
- ALL FOOTINGS SHALL BE CENTERED UNDER WALLS OR COLUMNS, UNLESS NOTED OTHERWISE.
- FOR GENERAL NOTES SEE S0 SERIES SHEETS.
- FOR TYPICAL DETAILS SEE S0 SERIES SHEETS. DETAILS AND SCHEDULES INDICATED AS 'TYPICAL' MAY NOT BE SPECIFICALLY REFERENCED ON DRAWINGS. DETERMINE WHERE EACH TYPICAL DETAIL OR SCHEDULE APPLIES BEFORE PROCEEDING WITH WORK.
- SEE ARCHITECTURAL DRAWINGS FOR CONCRETE SLAB ELEVATIONS, DEPRESSIONS, SLOPES, OPENINGS, CURBS, DRAINS, TRENCHES, SLAB EDGE LOCATIONS, ETC., AND FOR WALL OVERALL DIMENSIONS, LOCATIONS OF OPENINGS, ETC., NOT INDICATED ON STRUCTURAL DRAWINGS.
- VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF WORK.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND LOCATING ALL OPENINGS THROUGH THE SLAB INCLUDING BUT NOT LIMITED TO ELECTRICAL, MECHANICAL, PLUMBING, SPRINKLER AND TELEPHONE. SUBMIT TO THE STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO SUBMITTAL OF REINFORCING STEEL SHOP DRAWINGS.

**PLAN SYMBOLS:**

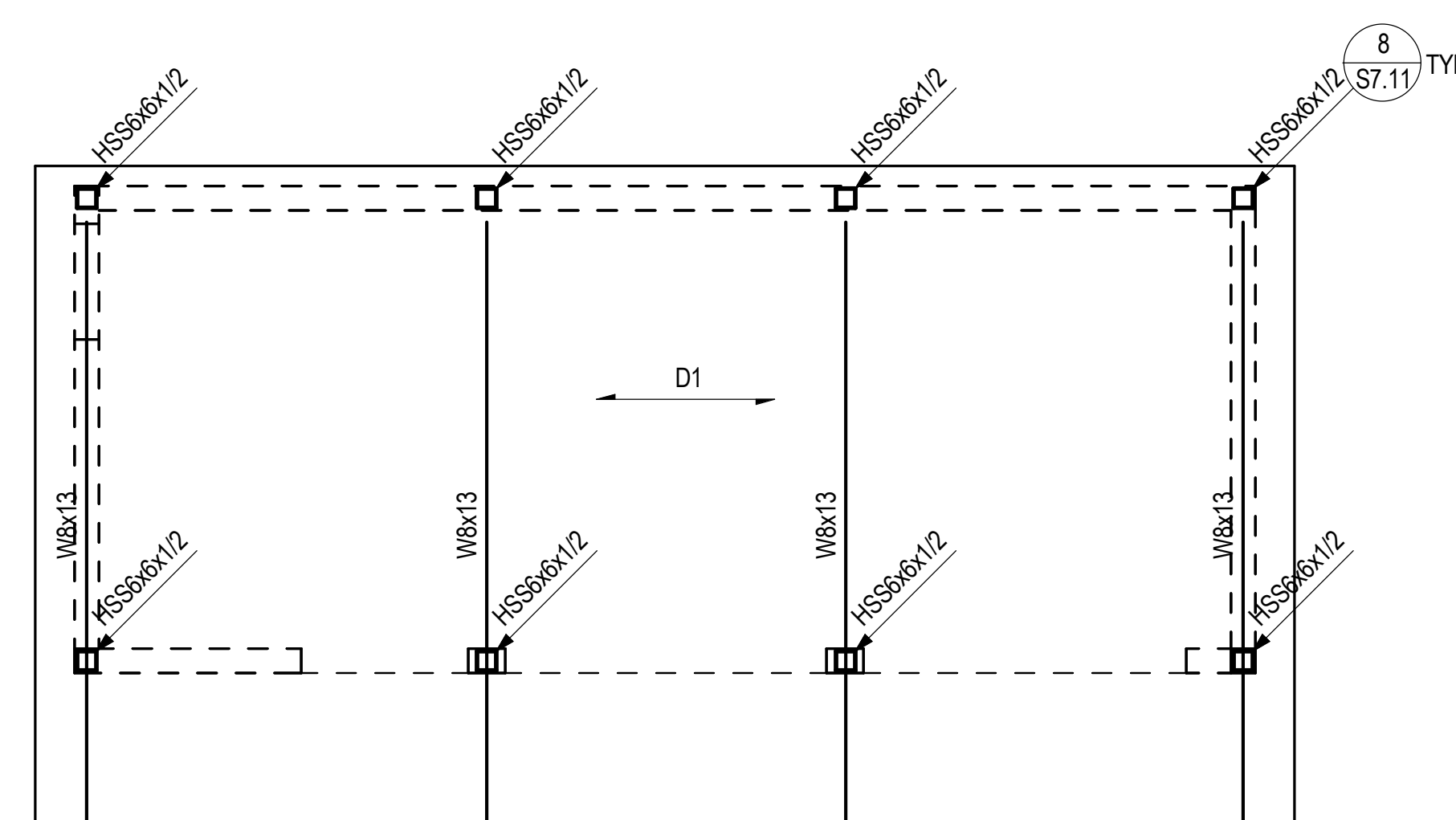
- INDICATE CONCRETE FOOTING MARK. SEE TYPICAL CONCRETE FOOTING SCHEDULE ON S2.11
- INDICATES ELEVATION TOP OF FOOTING. ALL TOP OF FOOTINGS SHALL BE -1'-6" BELOW LOWEST ADJACENT GRADE OR TOP OF CONCRETE SLAB ON GRADE, U.N.O.
- INDICATES SLAB ELEVATION DROP, SEE PLAN
- INDICATES TOP OF CONCRETE SLAB ELEVATION FROM LEVEL DATUM
- INDICATES DIRECTION OF STEEL DECKING AND SLAB CONSTRUCTION. SEE SCHEDULE ON 1/S0.61.
- INDICATES 8" BEARING C.M.U. WALL.
- INDICATES 8" NON-BEARING C.M.U. WALL.



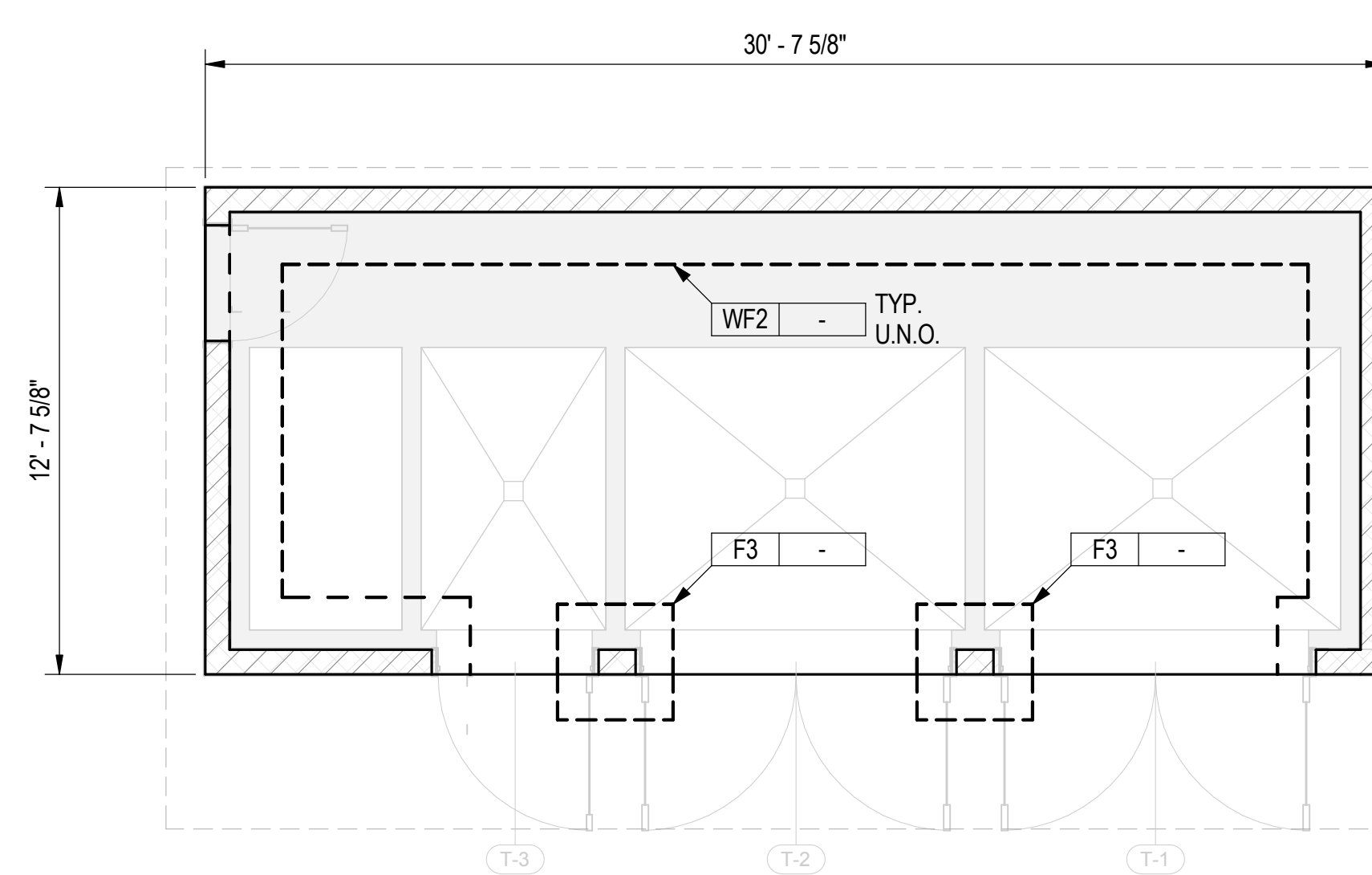
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 949 250 0507 www.whearchitects.com fax 949 250 1529  
 6111 BOLLINGER CANYON ROAD, SUITE 405, SAN RAMON, CA 94583-9186  
 925 463 1700 fax 925 463 1725



**Englekirk**  
 STRUCTURAL ENGINEERS  
 3421 Harbor Boulevard  
 Suite 125  
 Santa Ana, CA  
 92704  
 714.557.8551 T  
 www.englekirk.com 714.557.8551 F



**ROOF FRAMING PLAN B**  
 1/4" = 1'-0"



**FOUNDATION PLAN A**  
 1/4" = 1'-0"

**PLAN NOTES:**

- ELEVATION TOP OF CONCRETE SLAB SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS, UNLESS NOTED OTHERWISE THUS (±0'-0").
- SLAB ON GRADE SHALL BE 5" THICK w/ #5@16" EACH WAY OVER PREPARED SUBGRADE PER GEOTECHNICAL'S RECOMMENDATION. 5" THICK MINIMUM AT THE DRAIN. SLAB THICKNESS VARIES PER SLOPE TO DRAIN PER ARCHITECTURAL DRAWINGS.
- ALL FOOTINGS SHALL BE CENTERED UNDER WALLS OR COLUMNS, UNLESS NOTED OTHERWISE.
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- FOR TYPICAL DETAILS SEE S0 SERIES SHEETS. DETAILS AND SCHEDULES INDICATED AS 'TYPICAL' MAY NOT BE SPECIFICALLY REFERENCED ON DRAWINGS. DETERMINE WHERE EACH TYPICAL DETAIL OR SCHEDULE APPLIES BEFORE PROCEEDING WITH WORK.
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- VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF WORK.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND LOCATING ALL OPENINGS THROUGH THE SLAB INCLUDING BUT NOT LIMITED TO ELECTRICAL, MECHANICAL, PLUMBING, SPRINKLER AND TELEPHONE. SUBMIT TO THE STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO SUBMITTAL OF REINFORCING STEEL SHOP DRAWINGS.

**PLAN SYMBOLS:**

- INDICATE CONCRETE FOOTING MARK. SEE TYPICAL CONCRETE FOOTING SCHEDULE ON S2.11
- INDICATES ELEVATION TOP OF FOOTING. ALL TOP OF FOOTINGS SHALL BE -1'-6" BELOW LOWEST ADJACENT GRADE OR TOP OF CONCRETE SLAB ON GRADE, U.N.O.
- INDICATES TOP OF CONCRETE SLAB ELEVATION FROM LEVEL DATUM
- INDICATES DIRECTION OF STEEL DECKING AND SLAB CONSTRUCTION. SEE SCHEDULE ON 1/S0.61.
- INDICATES 8" BEARING C.M.U. WALL.
- INDICATES 8" NON-BEARING C.M.U. WALL.

**SOUTH COAST SPEEDWASH AT THE AUTOBAHN**

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**REVISIONS**

NO.	DATE	DESCRIPTION
	07/14/17	3RD PLAN CHECK SUBMITTAL

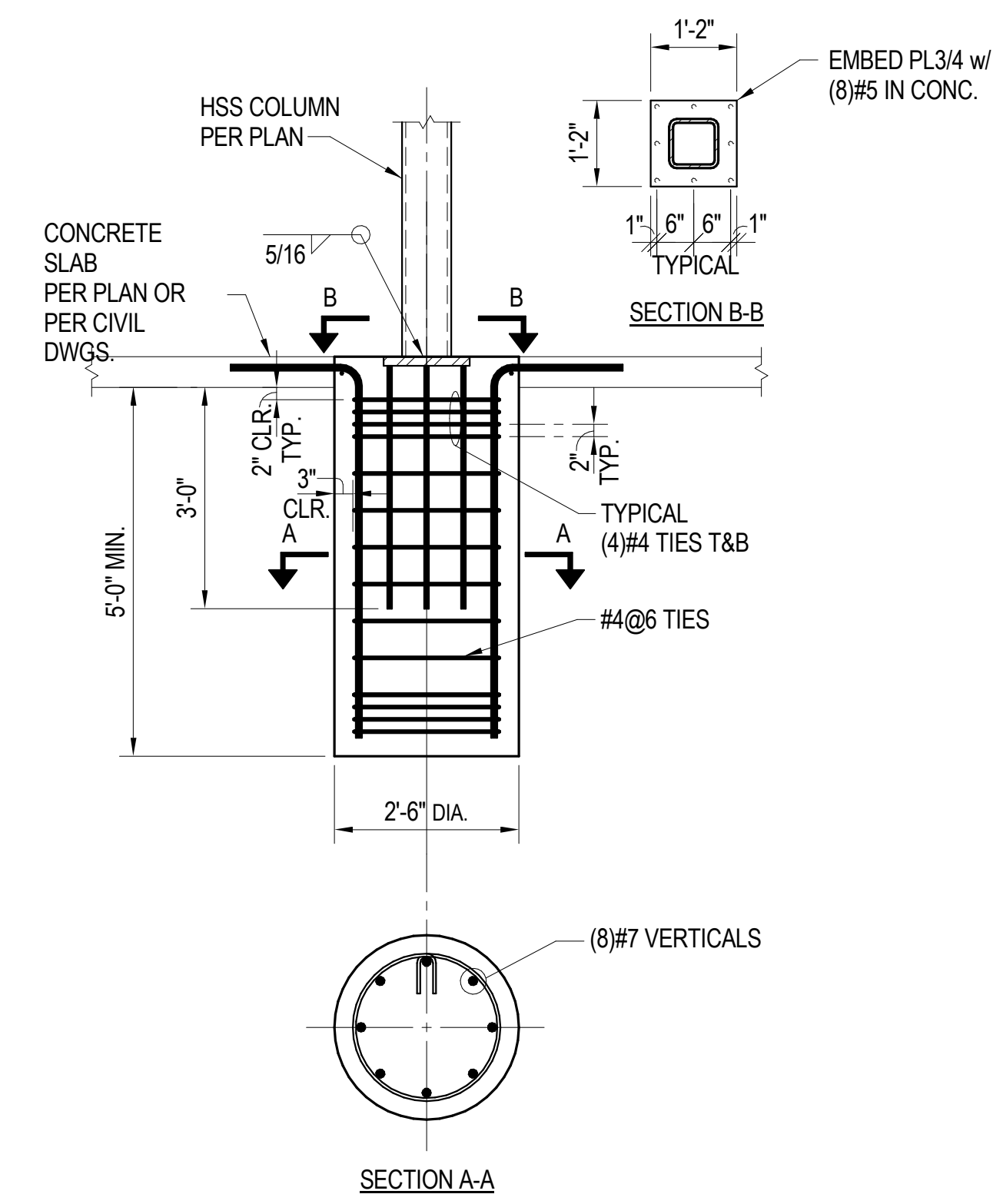
**TRASH ENCLOSURE FOUNDATION AND ROOF FRAMING PLAN**

SHEET SCALE :	1/4" = 1'-0"
PROJECT MANAGER :	MH
DESIGNER :	JN
DRAWN BY :	FS
REVIEWED BY :	
1st DEPT. SUBMITTAL :	XX/2016
ISSUED FOR CONST. :	
JOB NUMBER	16-5003
CAD FILE NAME	

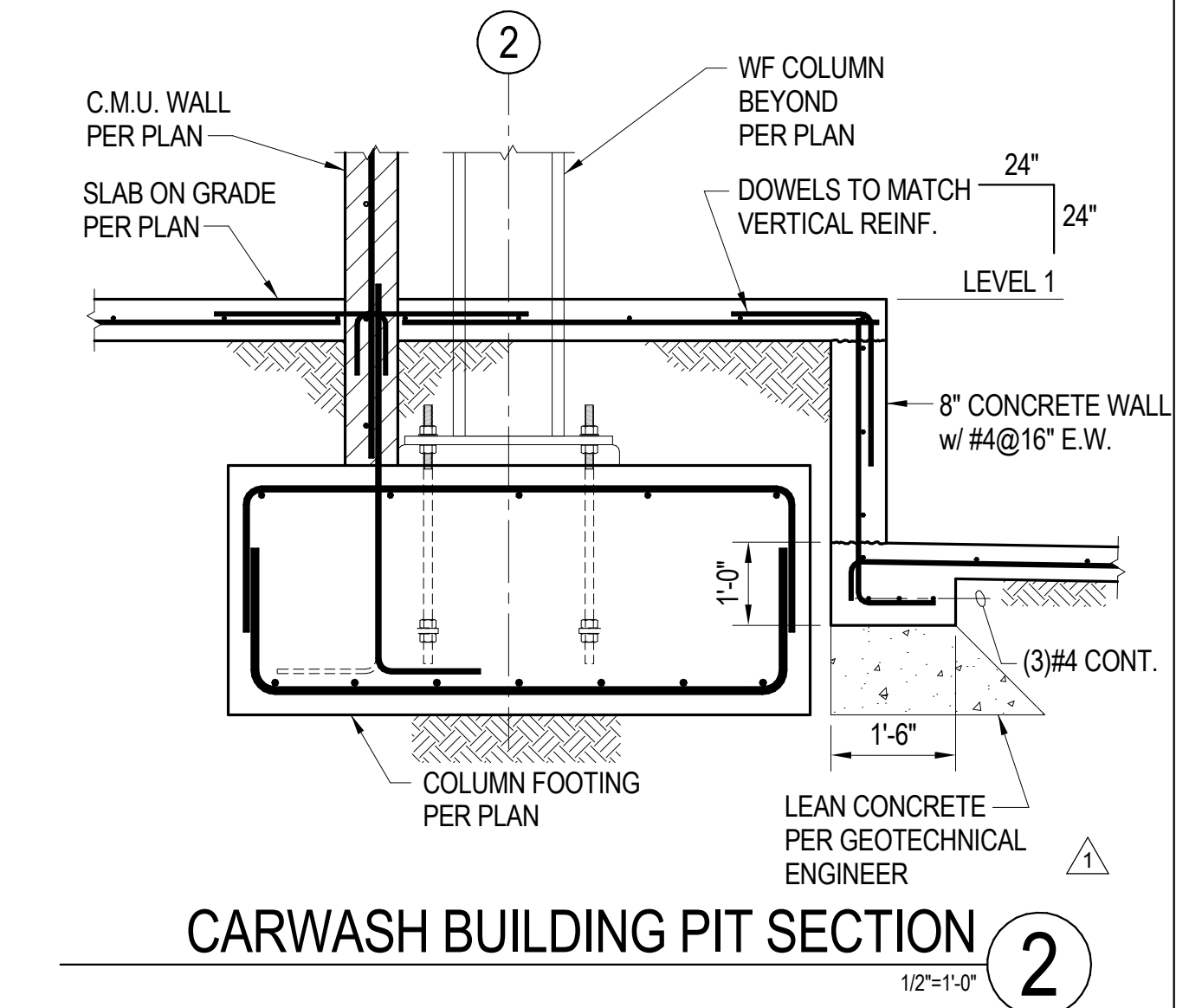
\$1.50

TYPICAL CONCRETE FOOTING SCHEDULE								
MARK	SIZE			TOP REINFORCING		BOTTOM REINFORCING		REMARKS
	WIDTH	LENGTH	THICKNESS	LONG REINFORCING	SHORT REINFORCING	LONG REINFORCING	SHORT REINFORCING	
<b>NON-FRAME SPREAD FOOTINGS</b>								
F3	3'-0"	3'-0"	2'-0"	-	-	(6)#5	(6)#5	△
F4	4'-0"	4'-0"	2'-0"	-	-	(5)#6	(5)#6	
F6	6'-0"	6'-0"	2'-0"	-	-	(6)#7	(6)#7	
<b>FRAME SPREAD FOOTINGS</b>								
FF5	5'-0"	5'-0"	3'-0"	(5)#6	(5)#6	(7)#7	(7)#7	
FF5A	5'-0"	10'-0"	3'-0"	(5)#6	(9)#6	(7)#7	(10)#8	
FF7	7'-0"	7'-0"	3'-0"	(7)#6	(7)#6	(10)#7	(10)#7	△
<b>WALL FOOTINGS</b>								
WF2	2'-0"	CONT.	24"	(2)#5	-	(3)#7	#6@10	
WF2.5	2'-6"	CONT.	24"	(2)#5	-	(4)#7	#6@10	
WF3	3'-0"	CONT.	24"	-	-	(4)#6	#6@10	

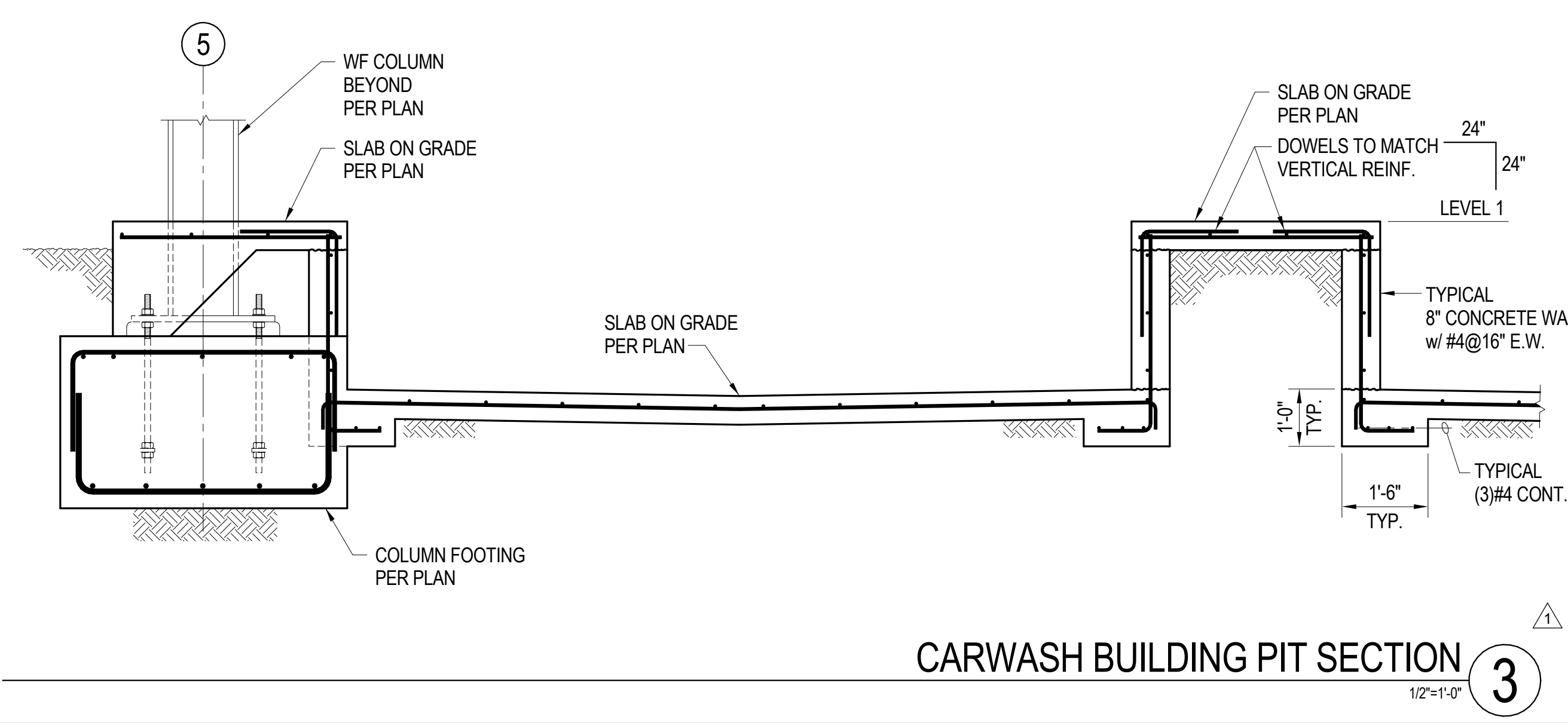
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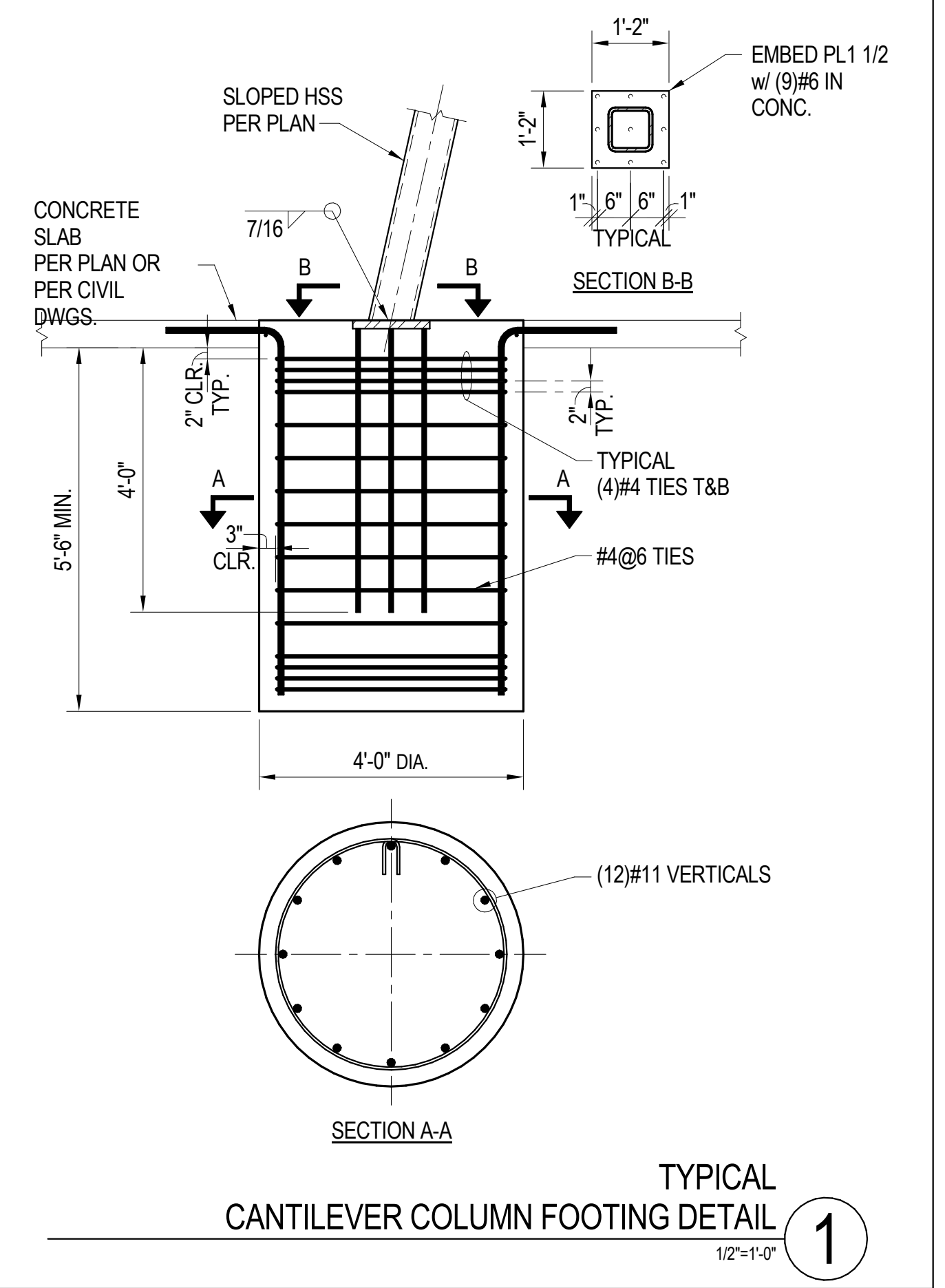
TYPICAL CANOPY COLUMN FOOTING DETAIL 4  
1/2"=1'-0"



CARWASH BUILDING PIT SECTION 2  
1/2"=1'-0"



CARWASH BUILDING PIT SECTION 3  
1/2"=1'-0"



TYPICAL CANTILEVER COLUMN FOOTING DETAIL 1  
1/2"=1'-0"

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 10801 NATIONAL BLVD., STE 510 LOS ANGELES, CA. 90064

  
**WILLIAM HEZMALHALCH ARCHITECTS INC.**  
 2850 REDHILL AVENUE, SUITE 200, SANTA ANA, CA 92705-5943  
 949 250 6037 www.hezarchitects.com fax 949 250 1529  
 6111 BOLLINGER CANYON ROAD, SUITE 405 SAN RAMON, CA 94583-9186  
 925 463 1700 fax 925 463 1725



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 Suite 125  
 Santa Ana, CA  
 92704  
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**REVISIONS**

NO.	DATE	DESCRIPTION
1	05/18/17	2ND PLAN CHECK SUBMITTAL
	07/14/17	3RD PLAN CHECK SUBMITTAL

**CONCRETE FOOTING SCHEDULE AND FOUNDATION DETAILS**

SHEET SCALE:	As Indicated
PROJECT MANAGER:	MH
DESIGNER:	JN
DRAWN BY:	FS
REVIEWED BY:	
1st DEPT. SUBMITTAL:	XX/2016
ISSUED FOR CONST.:	
JOB NUMBER:	16-5003
CAD FILE NAME:	

S2.11

2ND BUILDING PLAN CHECK COORDINATION 05.18.2017



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**REVISIONS**

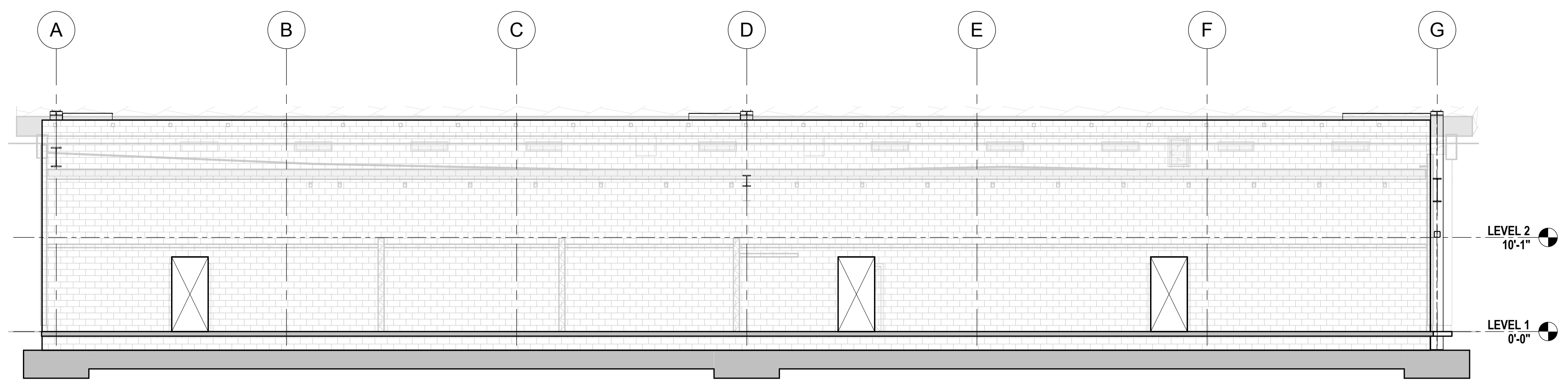
NO.	DATE	DESCRIPTION
1	05/18/17	2ND PLAN CHECK SUBMITTAL
	07/14/17	3RD PLAN CHECK SUBMITTAL

**CARWASH BUILDING  
 C.M.U. SHEAR WALL ELEVATIONS**

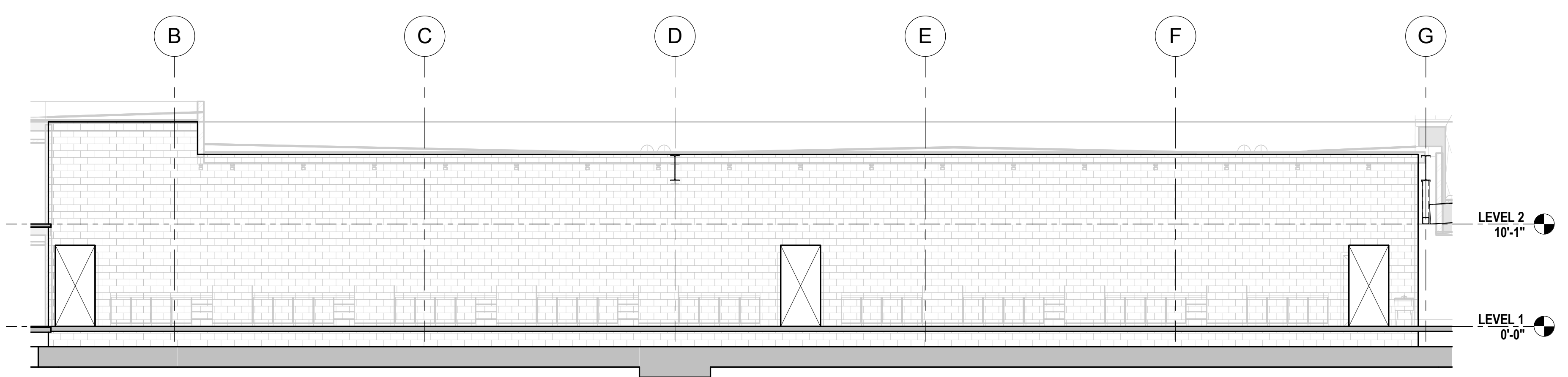
SHEET SCALE :	1/8" = 1'-0"
PROJECT MANAGER :	MH
DESIGNER :	JN
DRAWN BY :	FS
REVIEWED BY :	
1st DEPT. SUBMITTAL :	XX/2016
ISSUED FOR CONST. :	
JOB NUMBER :	16-5003
CAD FILE NAME :	

S2.21

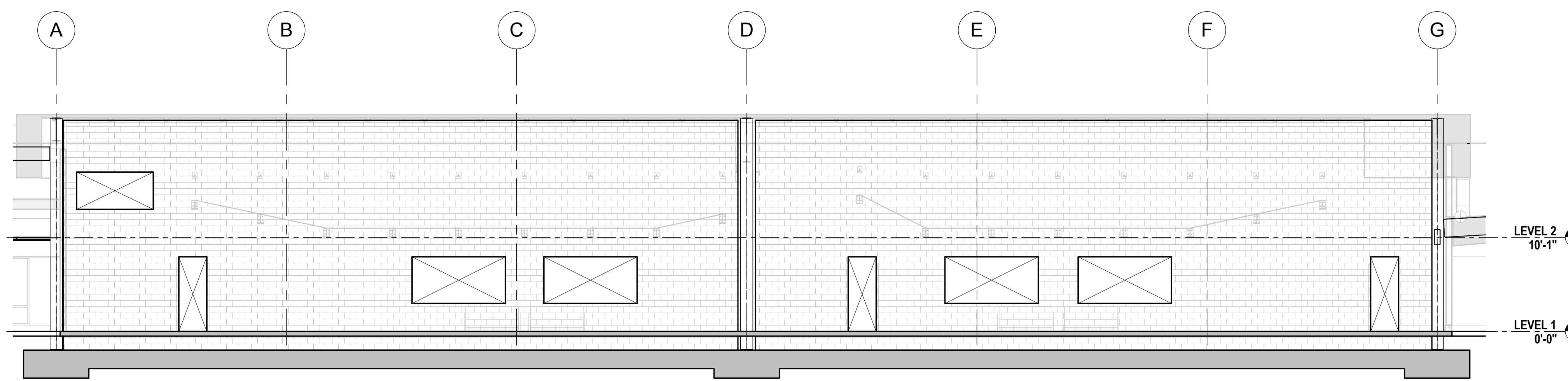
2ND BUILDING PLAN CHECK COORDINATION 05.18.2017



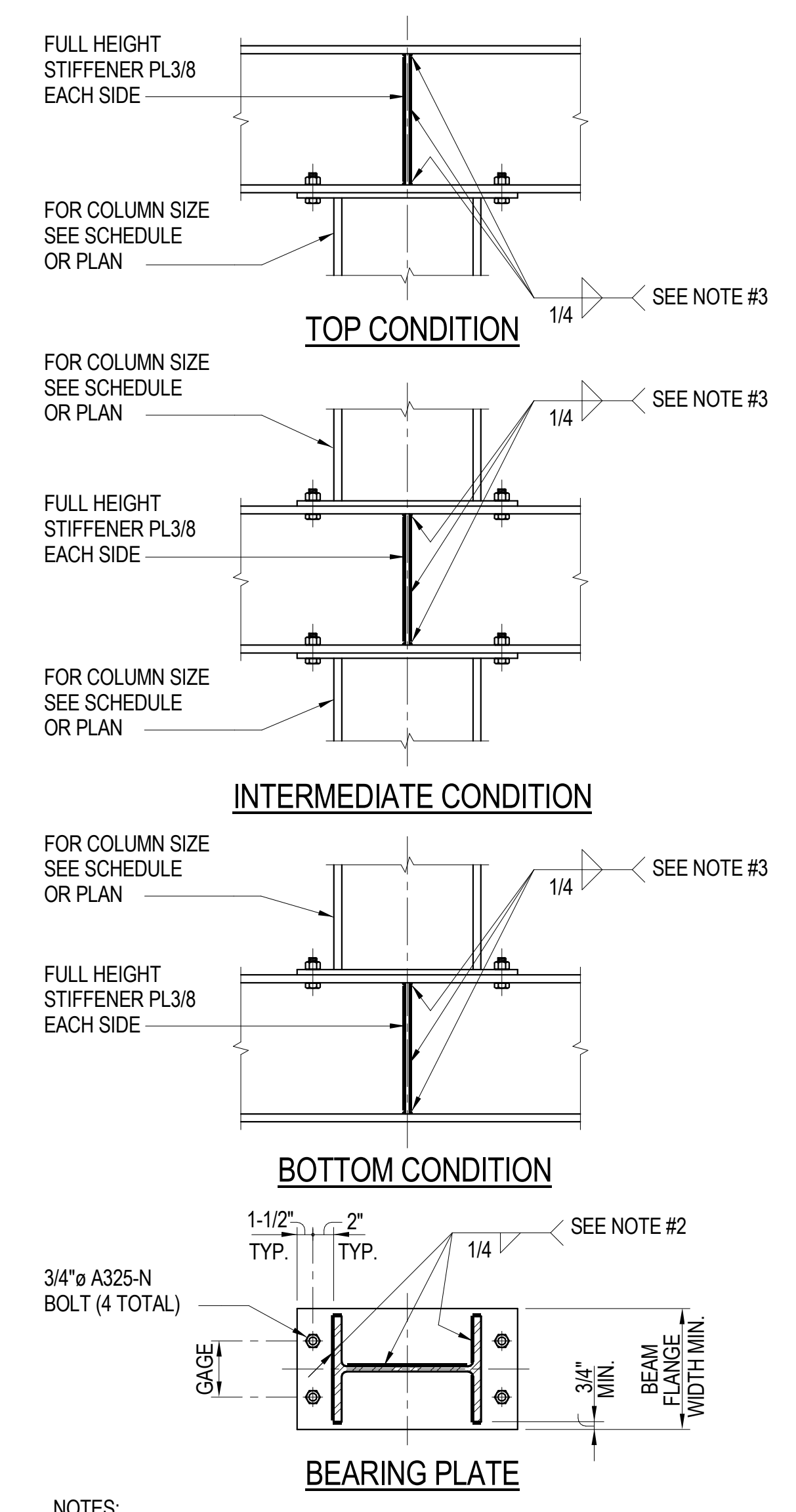
**C.M.U. SHEAR WALL ELEVATION C**  
 1/8" = 1'-0"



**C.M.U. SHEAR WALL ELEVATION B**  
 1/8" = 1'-0"

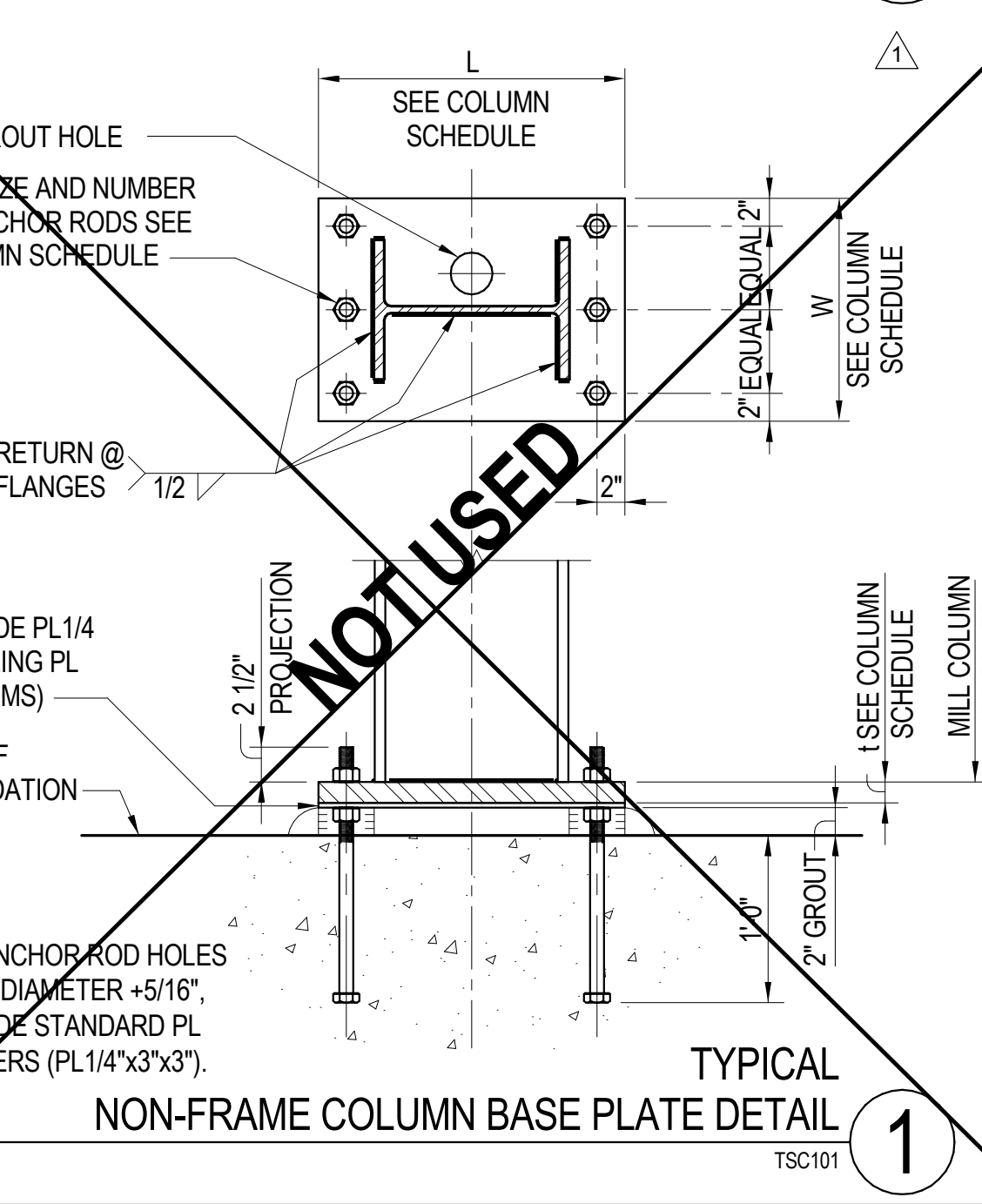
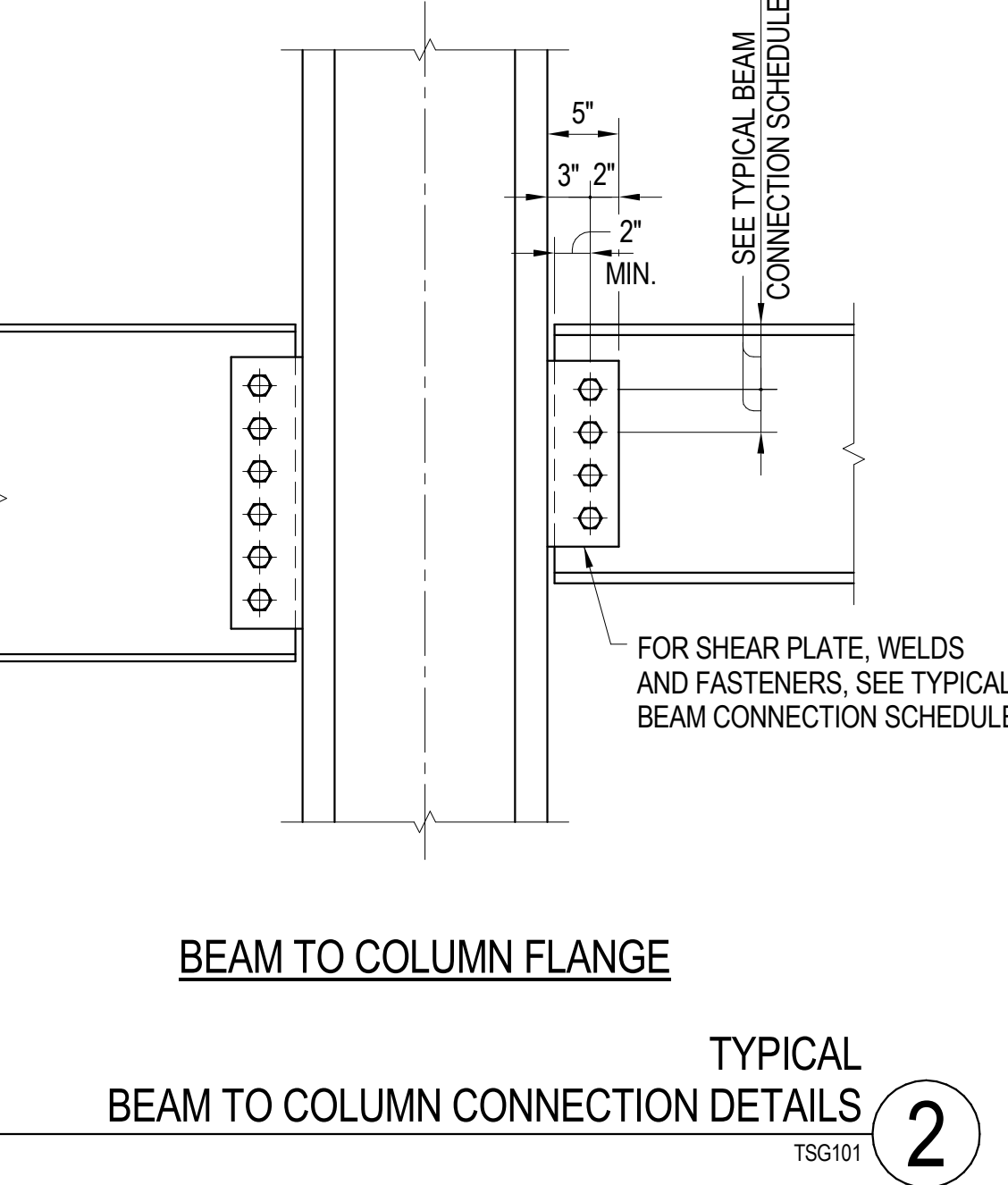
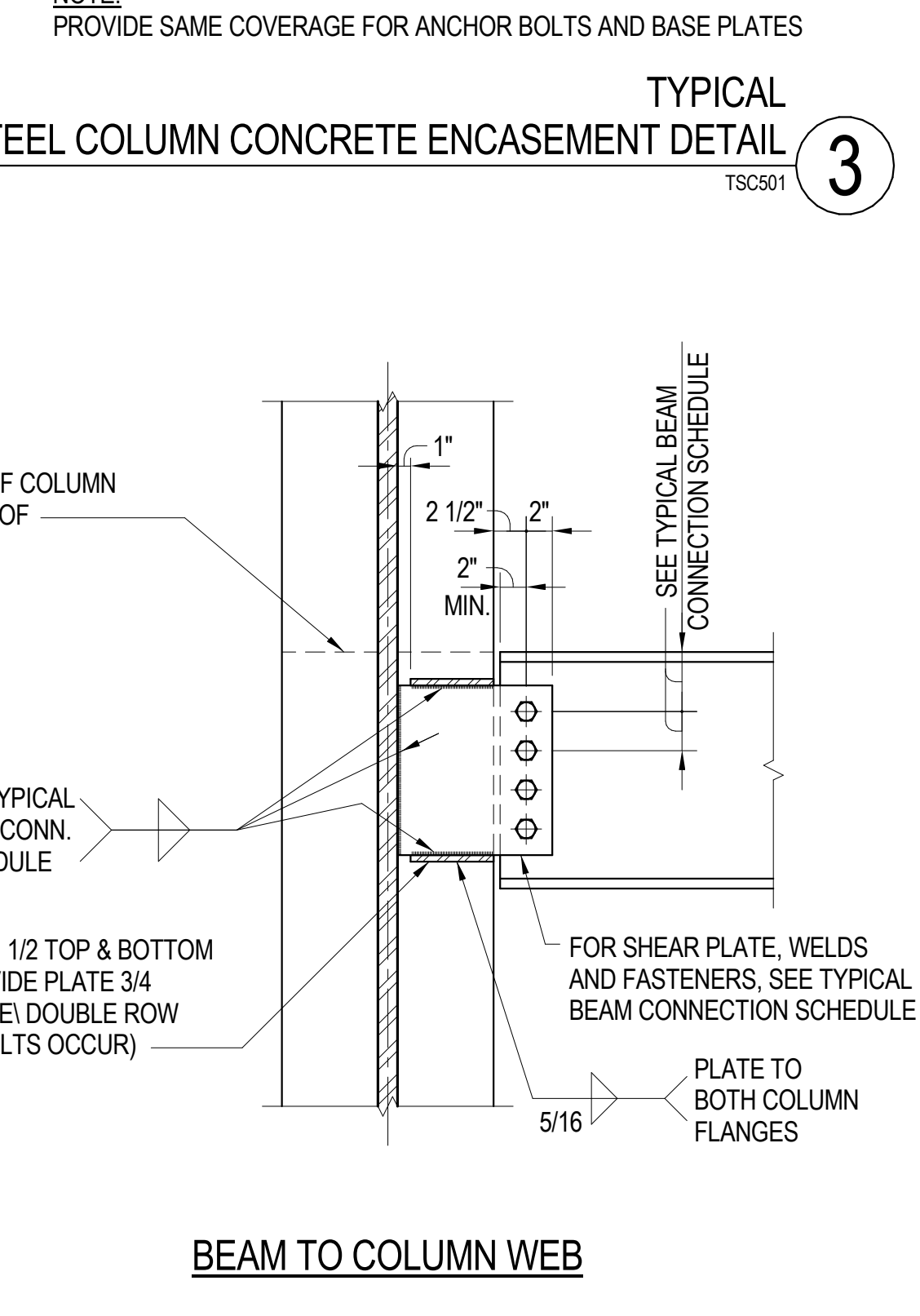
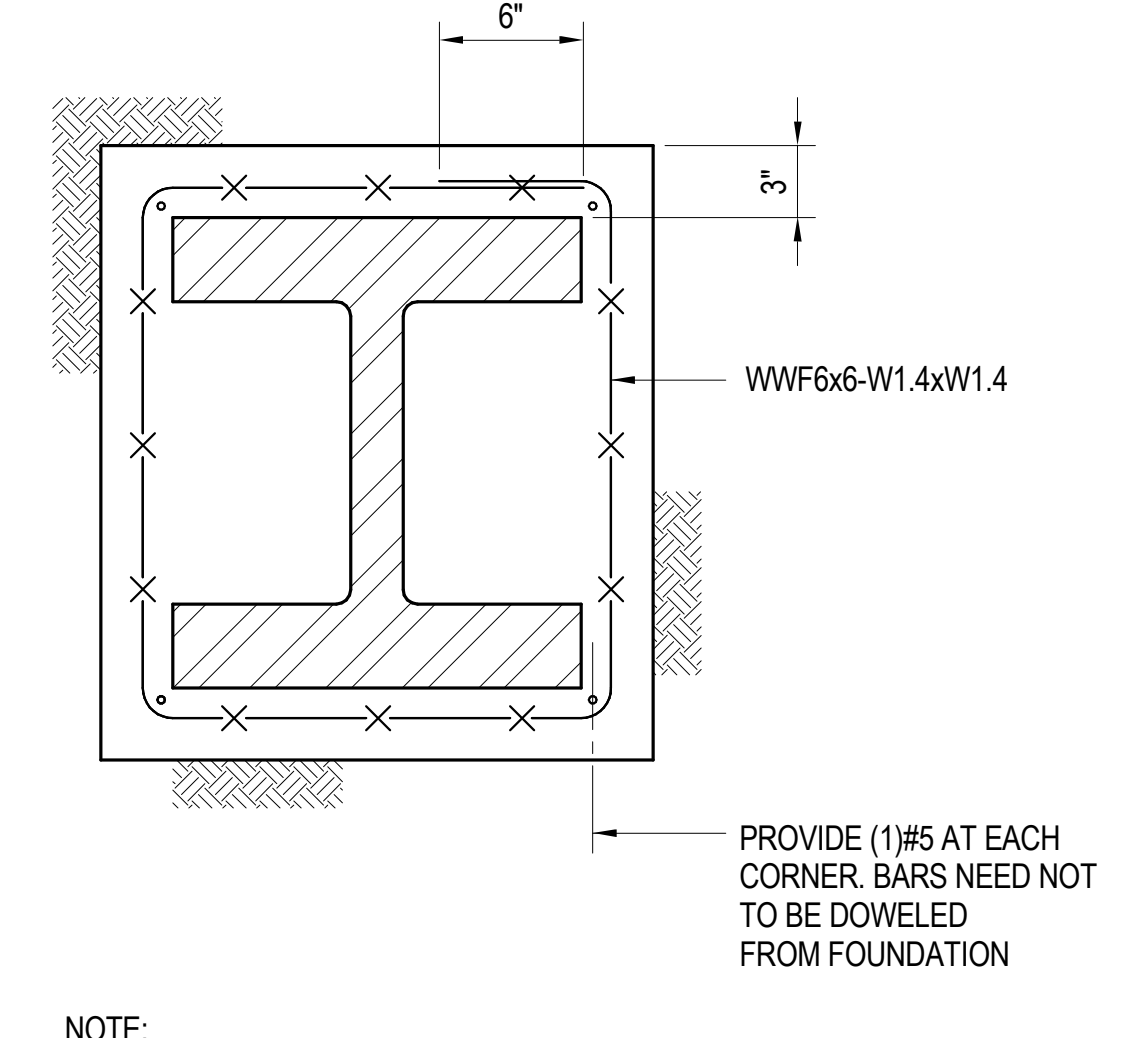
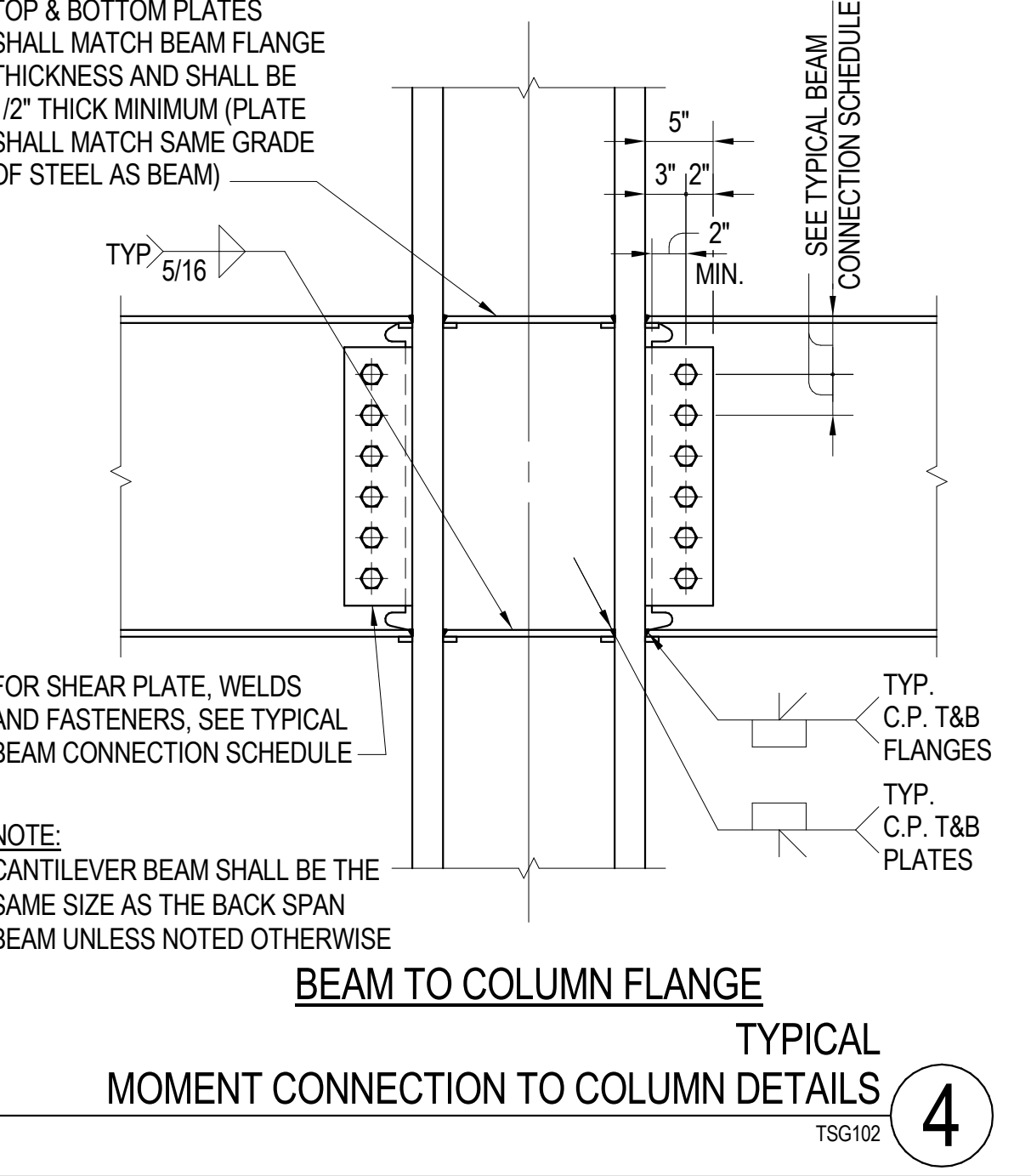
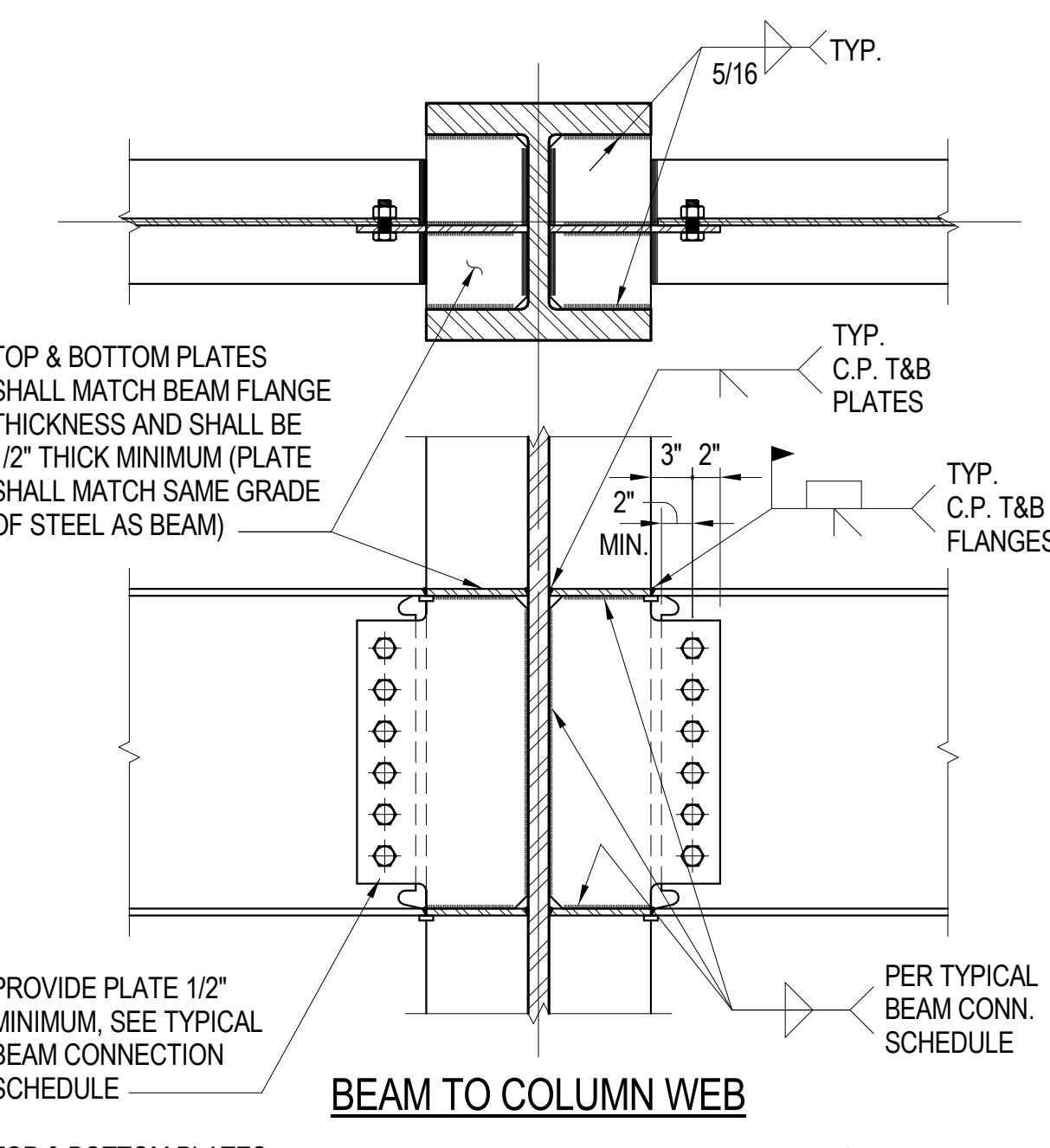


**C.M.U. SHEAR WALL ELEVATION A**  
 1/8" = 1'-0"



**NOTES:**  
 1. BEARING PL SHALL MATCH BEAM FLANGE THICKNESS AND SHALL BE 1/2" THICK MINIMUM, UNLESS NOTED OTHERWISE IN COLUMN SCHEDULE.  
 2. PROVIDE 5/16" FILLET WELD WHERE BEARING PL EXCEEDS 3/4".  
 3. PROVIDE 5/16" FILLET WELD WHERE BEAM WEB EXCEEDS 3/4".

**TYPICAL COLUMN BEARING PLATE DETAILS**  
 TSC104 **5**



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 2850 REDHILL AVENUE, SUITE 200, SANTA ANA, CA 92705-5943  
 949 250 6507 www.hezmalhalch.com fax 949 250 1529  
 6111 BOLLINGER CANYON ROAD, SUITE 405, SAN RAMON, CA 94583-9186  
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NO.	DATE	DESCRIPTION
1	05/18/17	2ND PLAN CHECK SUBMITTAL
	07/14/17	3RD PLAN CHECK SUBMITTAL

**TYPICAL STEEL COLUMN DETAILS**

SHEET SCALE:	As Indicated
PROJECT MANAGER:	MH
DESIGNER:	JN
DRAWN BY:	FS
REVIEWED BY:	
1st DEPT. SUBMITTAL:	XX/2016
ISSUED FOR CONST.:	
JOB NUMBER:	16-5003
CAD FILE NAME:	

S3.11

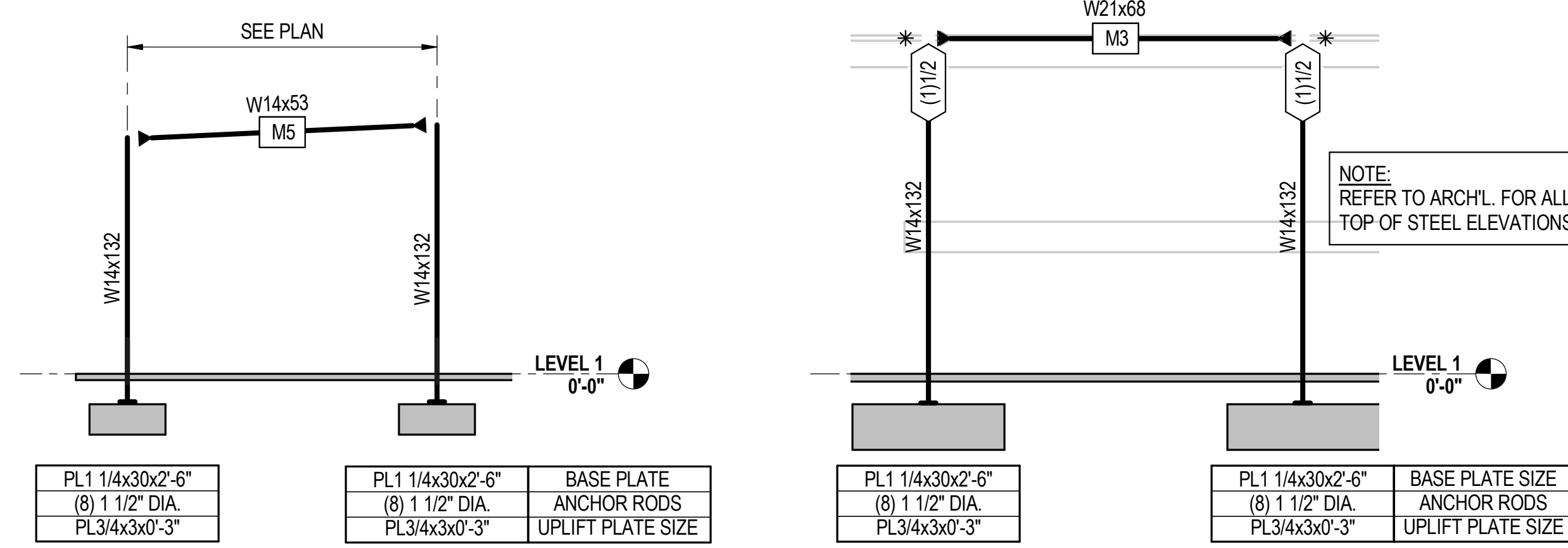
2ND BUILDING PLAN CHECK COORDINATION 05.18.2017



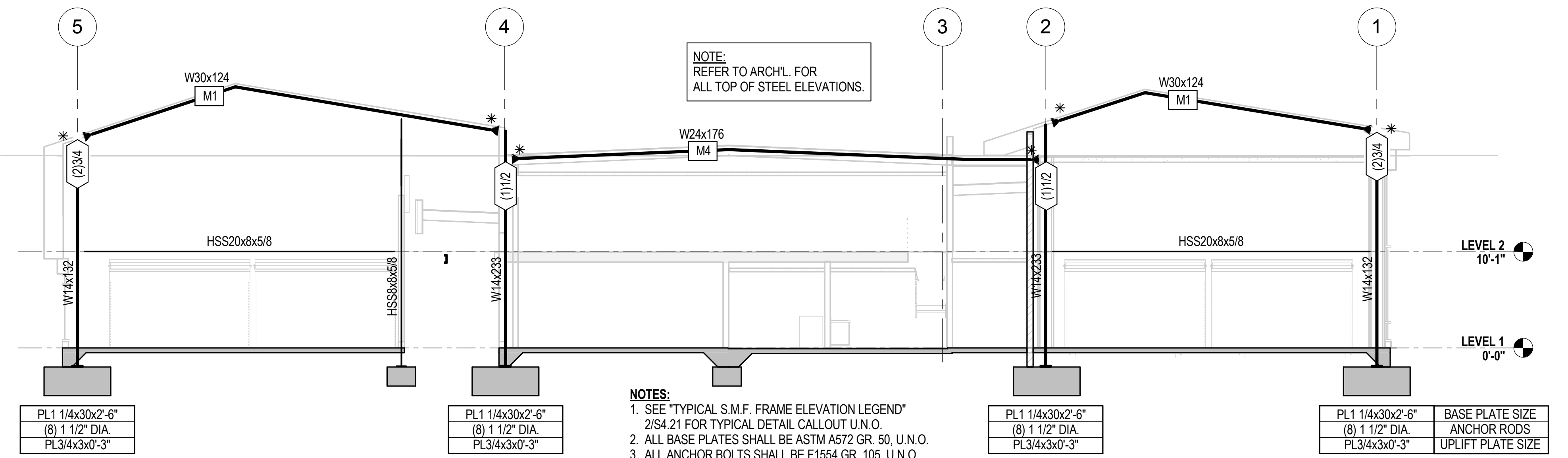
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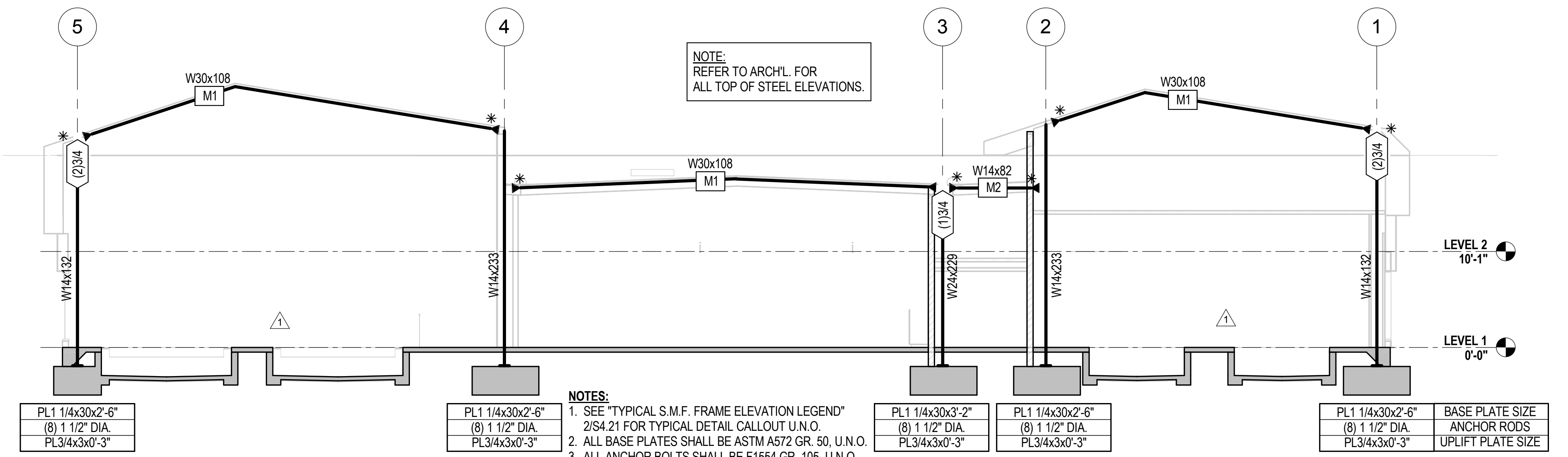
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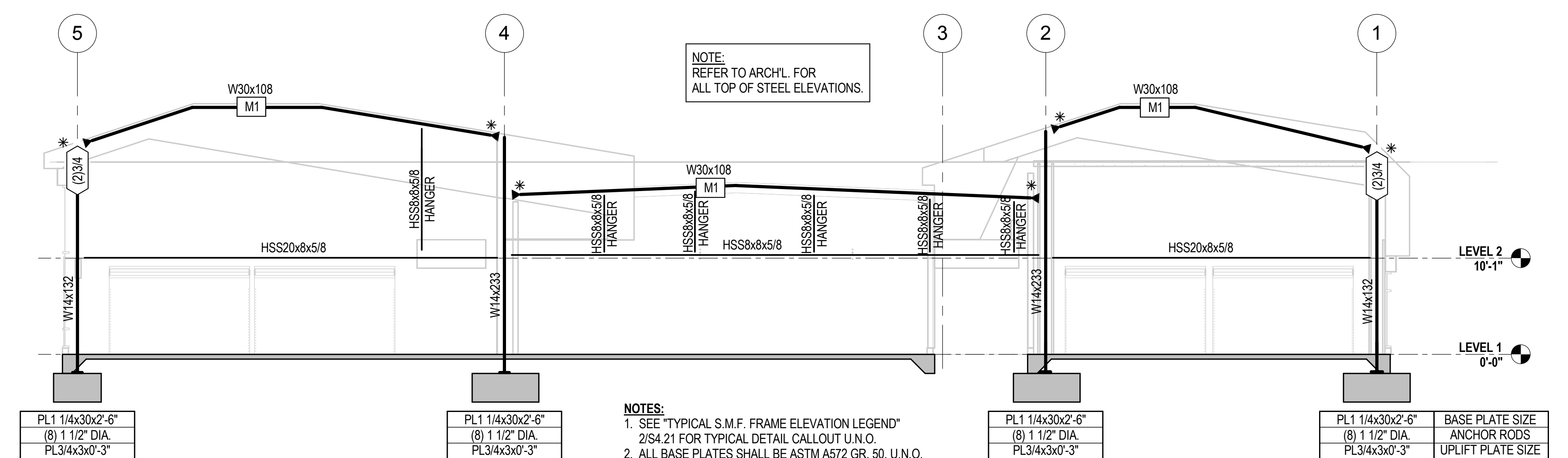
- NOTES:**
- SEE "TYPICAL S.M.F. FRAME ELEVATION LEGEND" 2/S4.21 FOR TYPICAL DETAIL CALLOUT U.N.O.
  - ALL BASE PLATES SHALL BE ASTM A572 GR. 50, U.N.O.
  - ALL ANCHOR BOLTS SHALL BE F1554 GR. 105, U.N.O.
  - ALL UPLIFT PLATES SHALL BE ASTM A572 GR. 50, U.N.O.



- NOTES:**
- SEE "TYPICAL S.M.F. FRAME ELEVATION LEGEND" 2/S4.21 FOR TYPICAL DETAIL CALLOUT U.N.O.
  - ALL BASE PLATES SHALL BE ASTM A572 GR. 50, U.N.O.
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  - ALL BASE PLATES SHALL BE ASTM A572 GR. 50, U.N.O.
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DO NOT SCALE PLANS

REVISIONS		
NO.	DATE	DESCRIPTION
1	05/18/17	2ND PLAN CHECK SUBMITTAL
	07/14/17	3RD PLAN CHECK SUBMITTAL

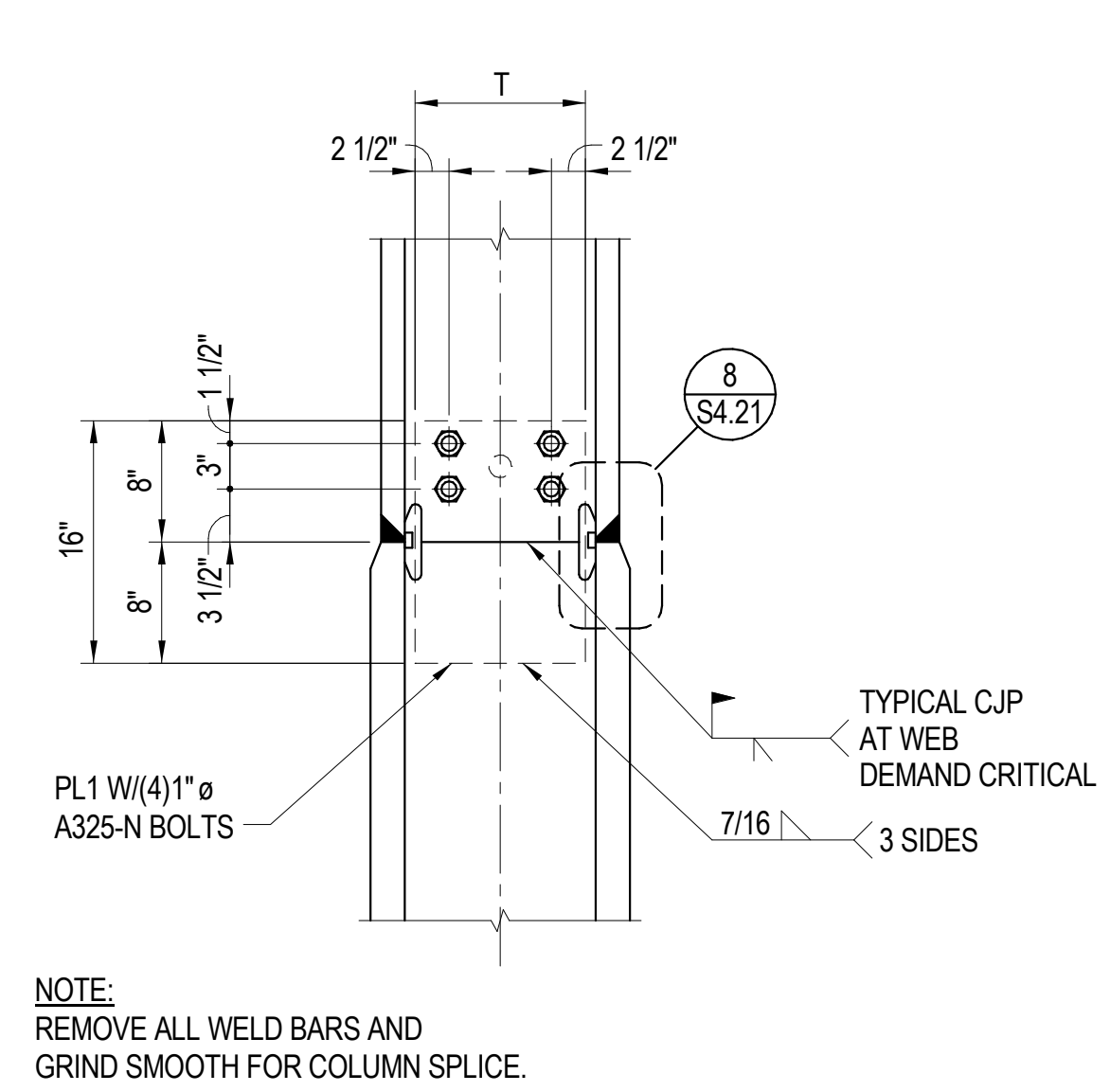
**SEISMIC MOMENT FRAME ELEVATIONS (SLRS)**

SHEET SCALE:	1/8" = 1'-0"
PROJECT MANAGER:	MH
DESIGNER:	JN
DRAWN BY:	FS
REVIEWED BY:	
1st DEPT. SUBMITTAL:	XX/2016
ISSUED FOR CONST.:	
JOB NUMBER:	16-5003
CAD FILE NAME:	

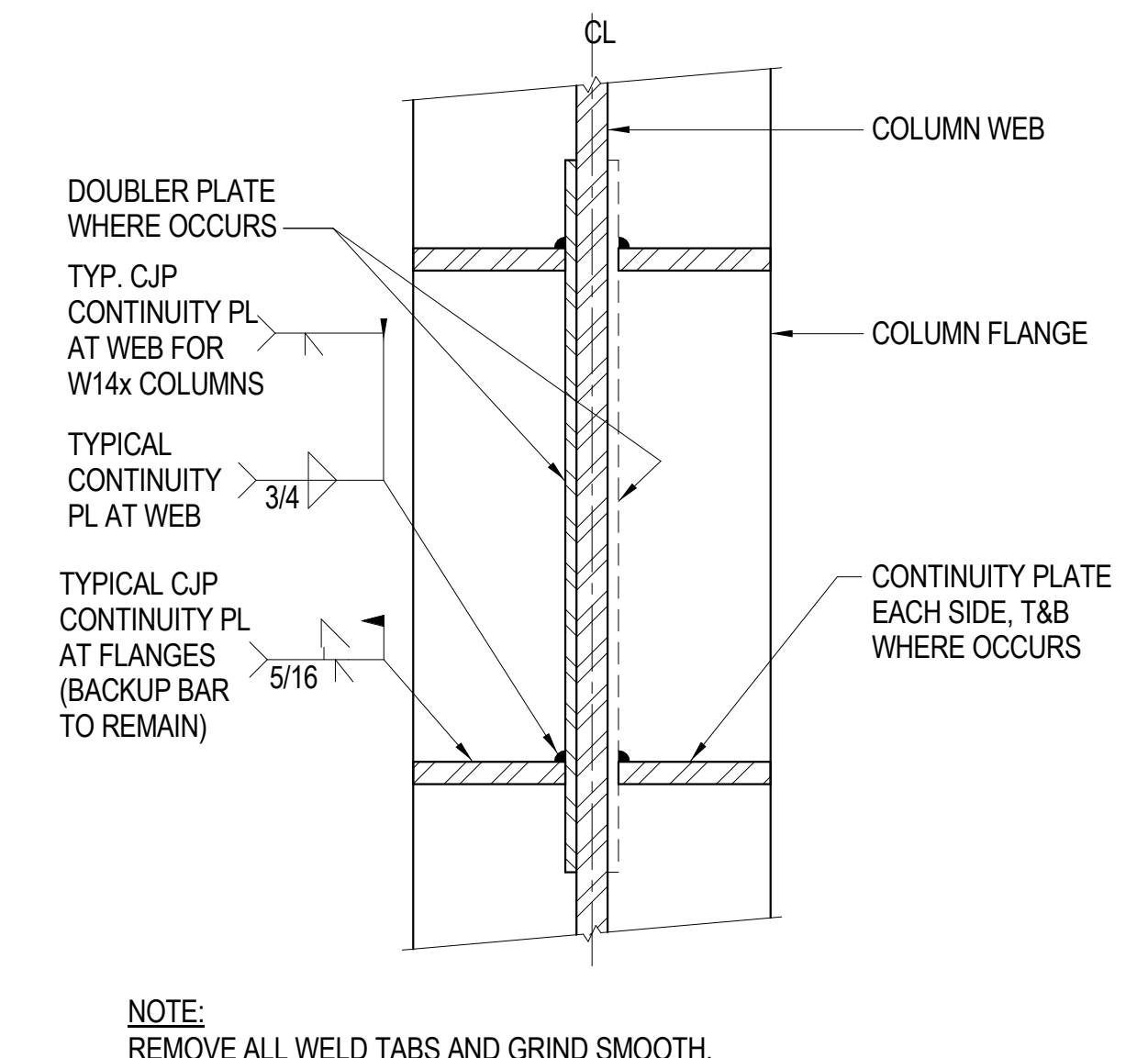
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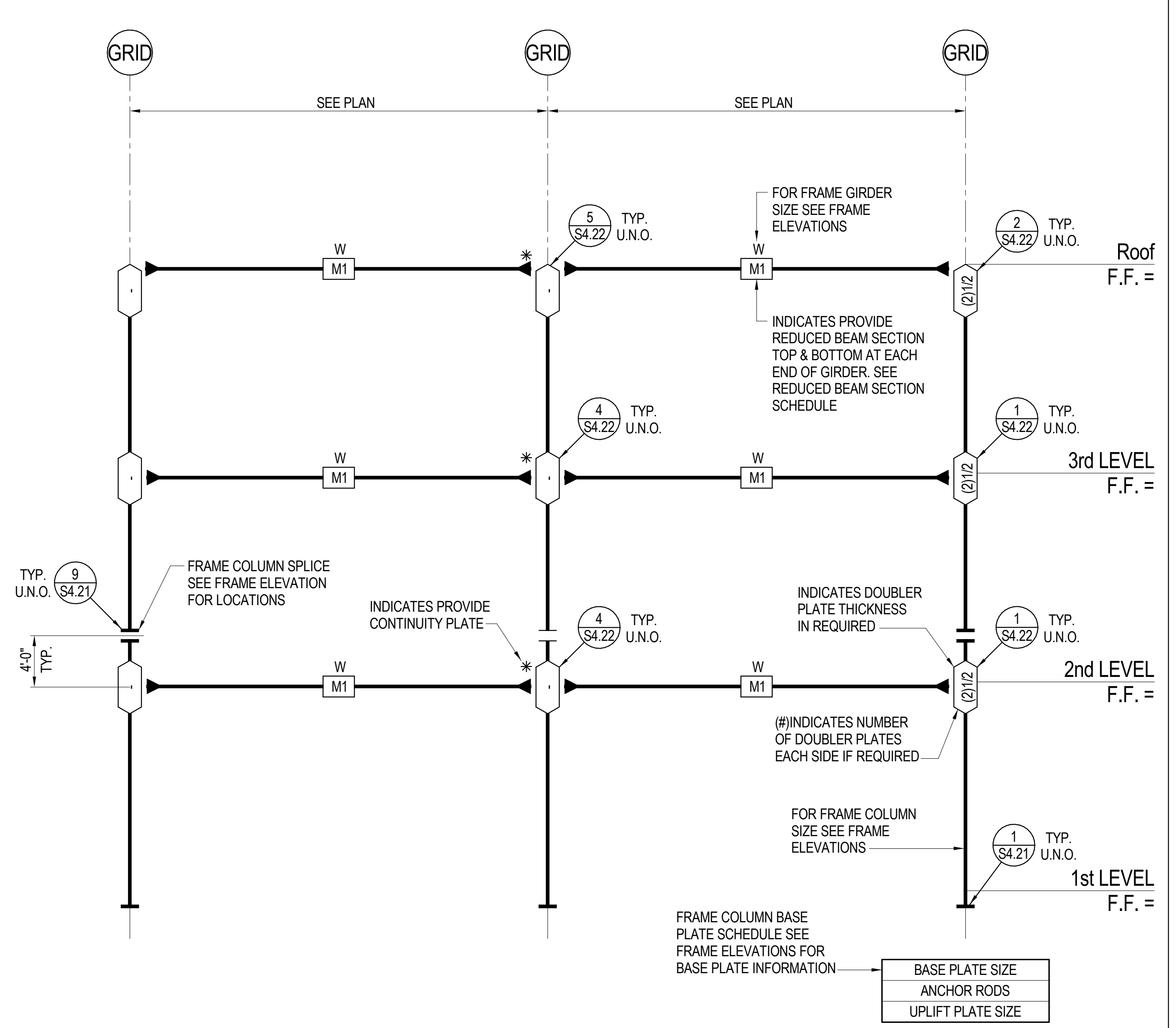




TYPICAL SEISMIC FRAME COLUMN SPLICE DETAIL (8)



TYPICAL CONTINUITY PLATE DETAIL (6)



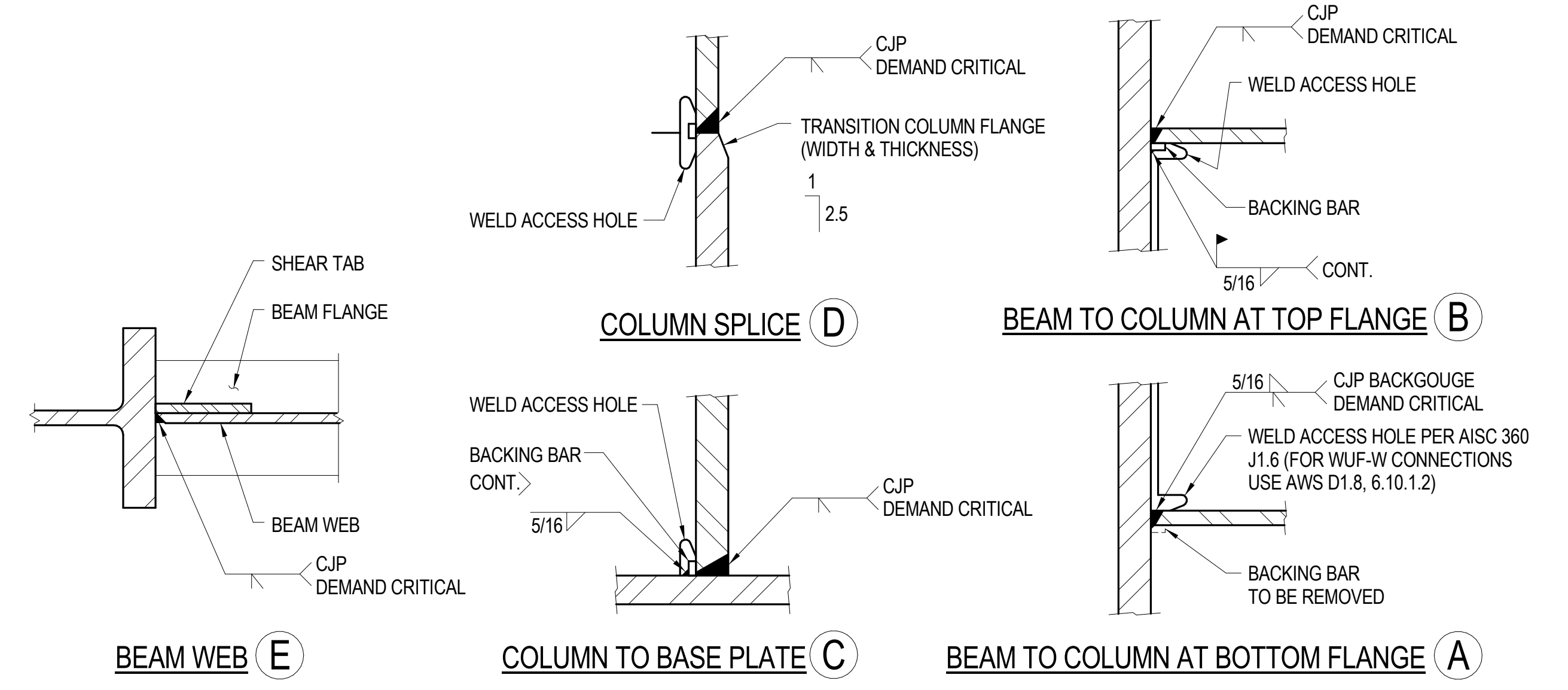
TYPICAL 'SMF' FRAME ELEVATION LEGEND (2)

WELDED PLATE WASHER SCHEDULE

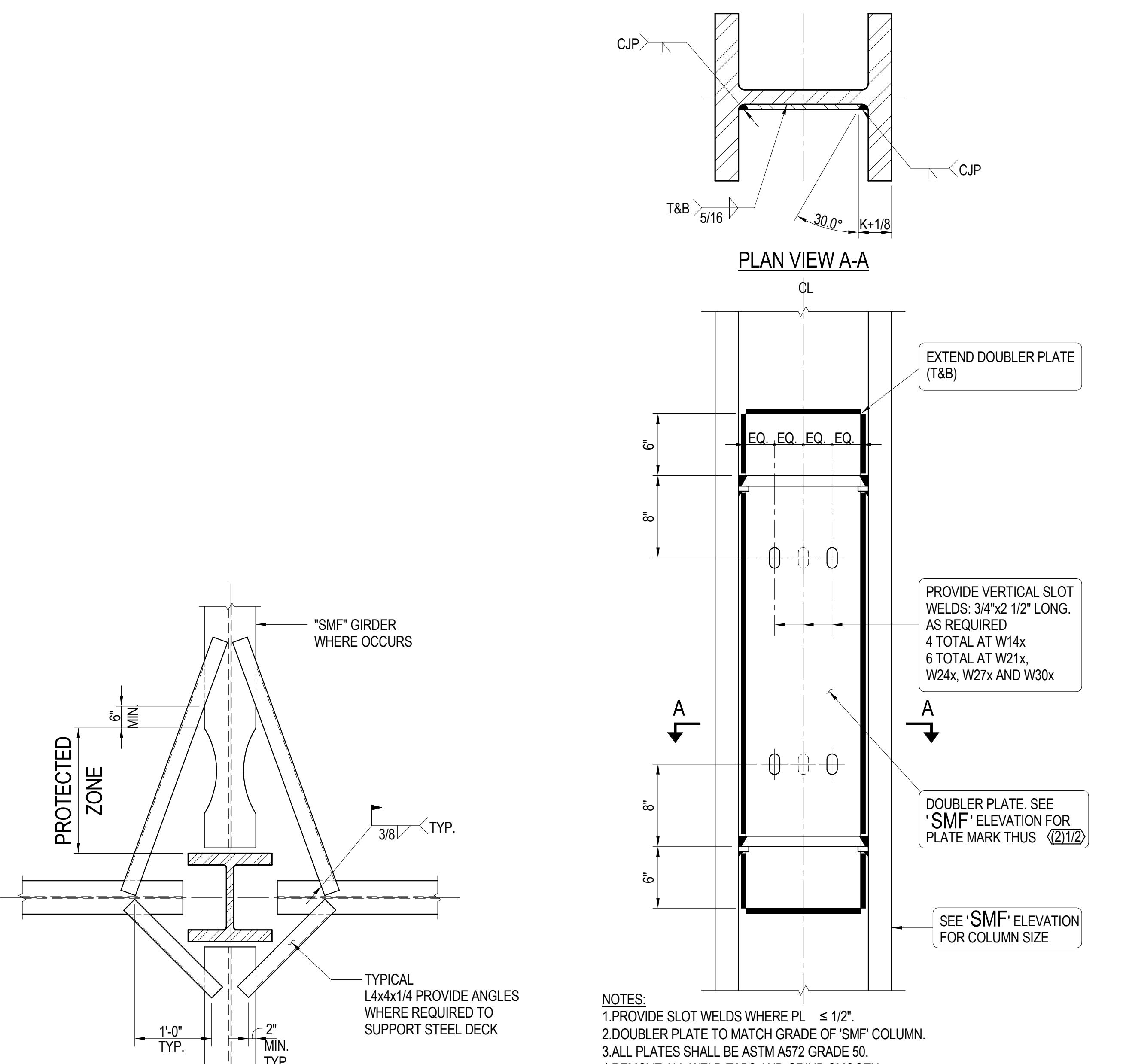
ANCHOR ROD SIZE	WASHER PLATE "L"	WASHER PLATE SIZE	WASHER PLATE WELDING
≤ 1"	3/8"	4" x 4"	5/16
1 1/8" - 1 1/4"	1/2"	4 1/2" x 4 1/2"	5/16
1 3/8" - 1 1/2"	5/8"	5" x 5"	5/16
1 3/8" - 1 3/4"	3/4"	5" x 5"	5/16
1 7/8" - 2"	7/8"	5 1/2" x 5 1/2"	3/8
2 1/8" - 2 3/8"	1"	6" x 6"	3/8

NOTES:  
 1. WELDED PLATE WASHERS ARE TO BE PROVIDED FOR ANCHOR ROD HOLES > ROD DIAMETER + 5/16".  
 2. TYPICAL WELDED PLATE WASHER SHALL BE ASTM A572 GRADE 50.

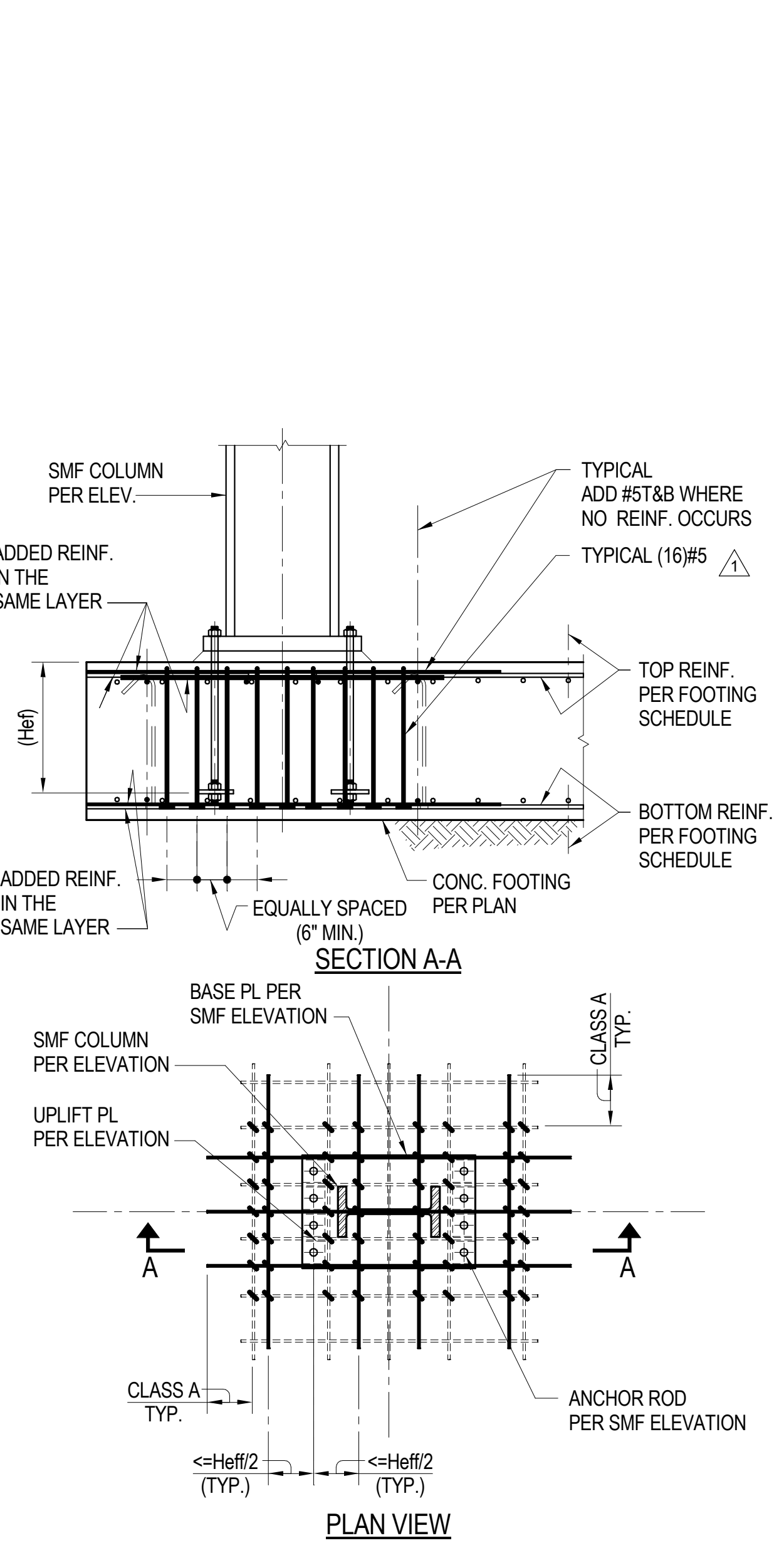
TYPICAL WELDED PLATE WASHER SCHEDULE (5)



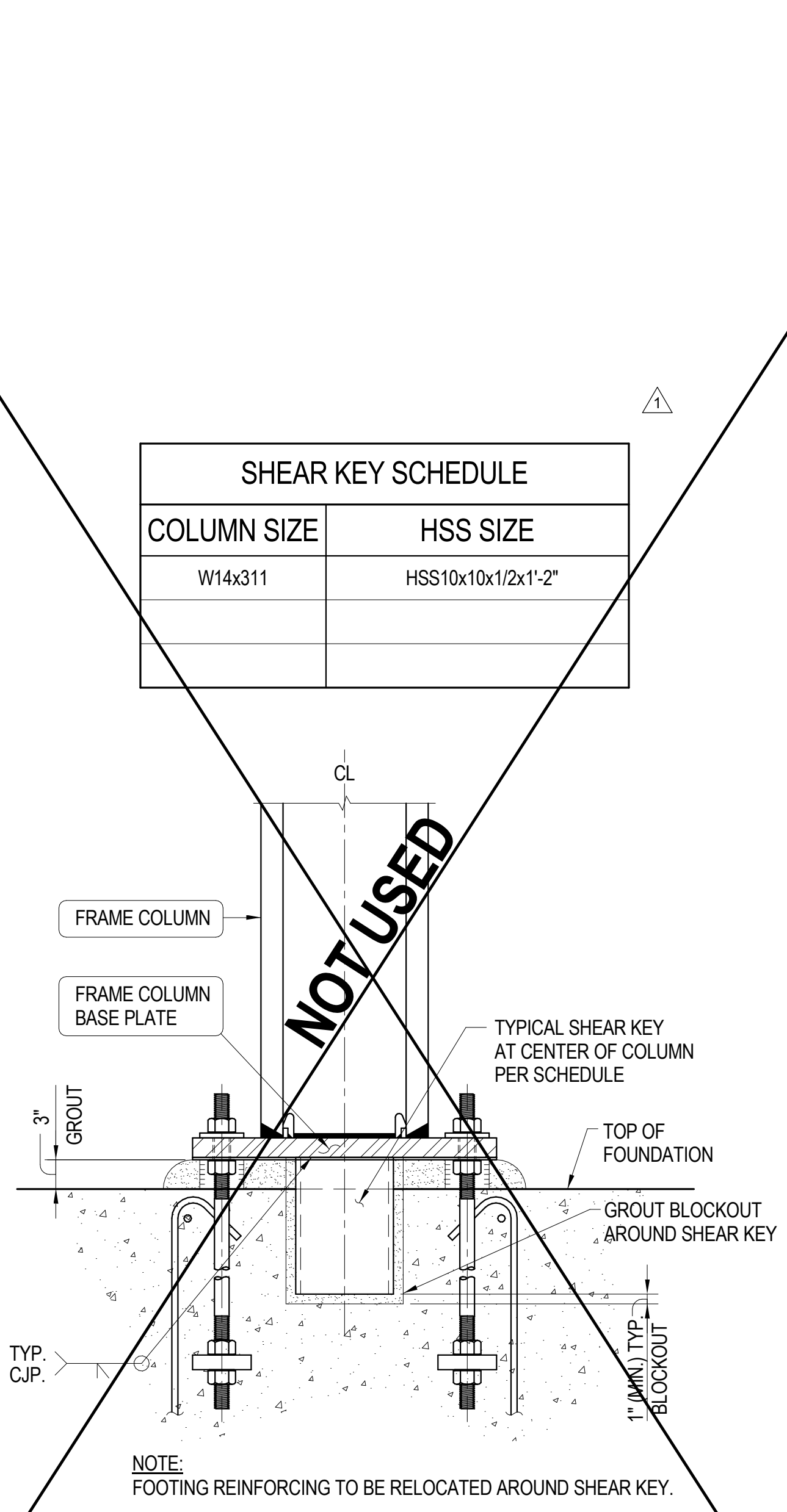
TYPICAL DEMAND CRITICAL & BACKING BAR WELDING DETAIL (8)



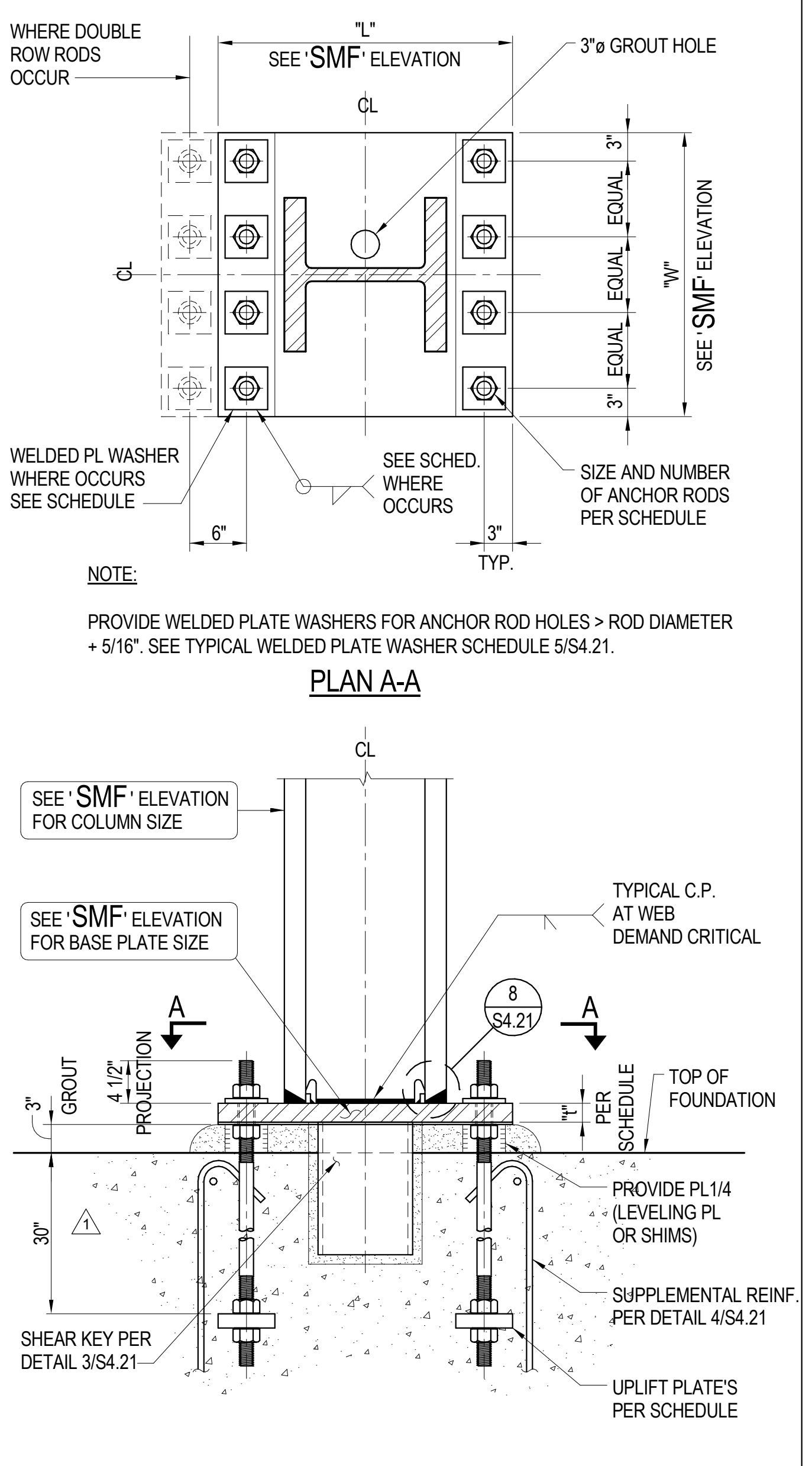
TYPICAL 'SMF' DOUBLER PLATE DETAIL (7)



TYPICAL SUPPLEMENTAL REINFORCING AT SMF FRAME COLUMN (4)



TYPICAL FRAME COLUMN SHEAR KEY DETAIL (3)



TYPICAL 'SMF' COLUMN BASE PLATE CONNECTION DETAIL (1)

STEEL DECK SUPPORT AT SMF COLUMN DETAIL (10)

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 2850 REDHILL AVENUE, SUITE 200, SANTA ANA, CA 92705-5943  
 949 250 9207 www.hezmalhalch.com fax 949 250 1529  
 6111 BOLLINGER CANYON ROAD, SUITE 405, SAN RAMON, CA 94583-9186  
 925 463 1700 fax 925 463 1725



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 STRUCTURAL ENGINEERS  
 3621 Harbor Boulevard  
 Suite 125  
 Santa Ana, CA  
 92704  
 714.557.8551 T  
 714.557.8551 F  
 www.englekirk.com

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 2402 BRISTOL ST. SANTA ANA, CA 92704  
 BRISTOL SPEEDWASH, INC.  
 10801 NATIONAL BLVD., STE 510 LOS ANGELES, CA. 90064

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	07/14/17	3RD PLAN CHECK SUBMITTAL

SEISMIC MOMENT FRAME DETAILS (SLRS)

SHEET SCALE: As Indicated  
 PROJECT MANAGER: MH  
 DESIGNER: JN  
 DRAWN BY: FS  
 REVIEWED BY:  
 1st DEPT. SUBMITTAL: XX/2016  
 ISSUED FOR CONST.:  
 JOB NUMBER: 16-5003  
 CAD FILE NAME: S4.21

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 949 250 6037 www.whearchitects.com fax 949 250 1529  
 6111 BOLLINGER CANYON ROAD, SUITE 405, SAN RAMON, CA 94583-9186  
 925 463 1700 fax 925 463 1725



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 STRUCTURAL ENGINEERS  
 3621 Harbor Boulevard  
 Suite 125  
 Santa Ana, CA  
 92704  
 714.557.8551 T  
 www.englekirk.com 714.557.8551 F

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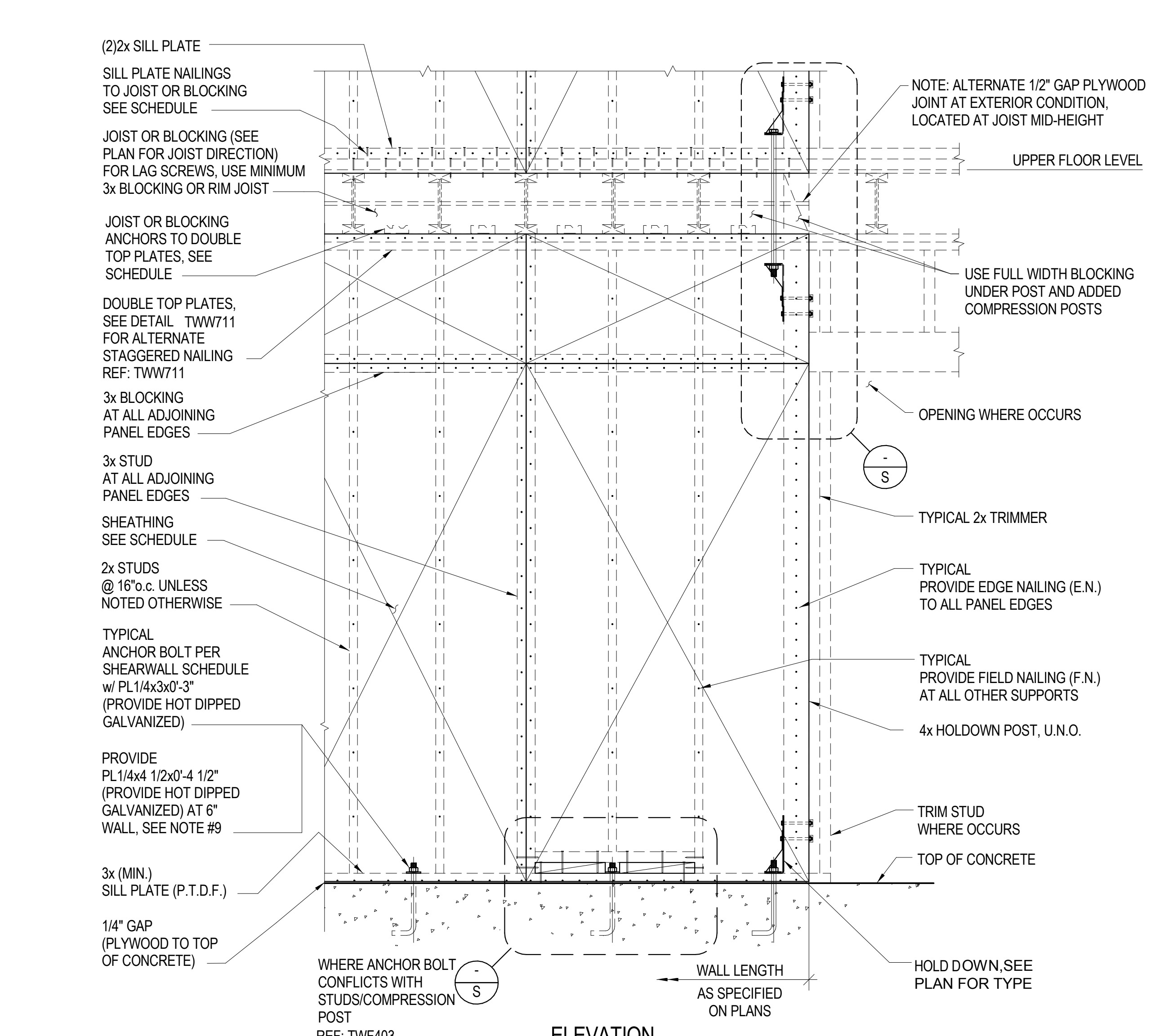
NO.	DATE	DESCRIPTION
07/14/17		3RD PLAN CHECK SUBMITTAL

**TYPICAL WOOD SHEAR WALL SCHEDULE AND DETAILS**

SHEET SCALE:	As Indicated
PROJECT MANAGER:	MH
DESIGNER:	JN
DRAWN BY:	FS
REVIEWED BY:	
1st DEPT. SUBMITTAL:	XX/2016
ISSUED FOR CONST.:	
JOB NUMBER:	16-5003
CAD FILE NAME:	

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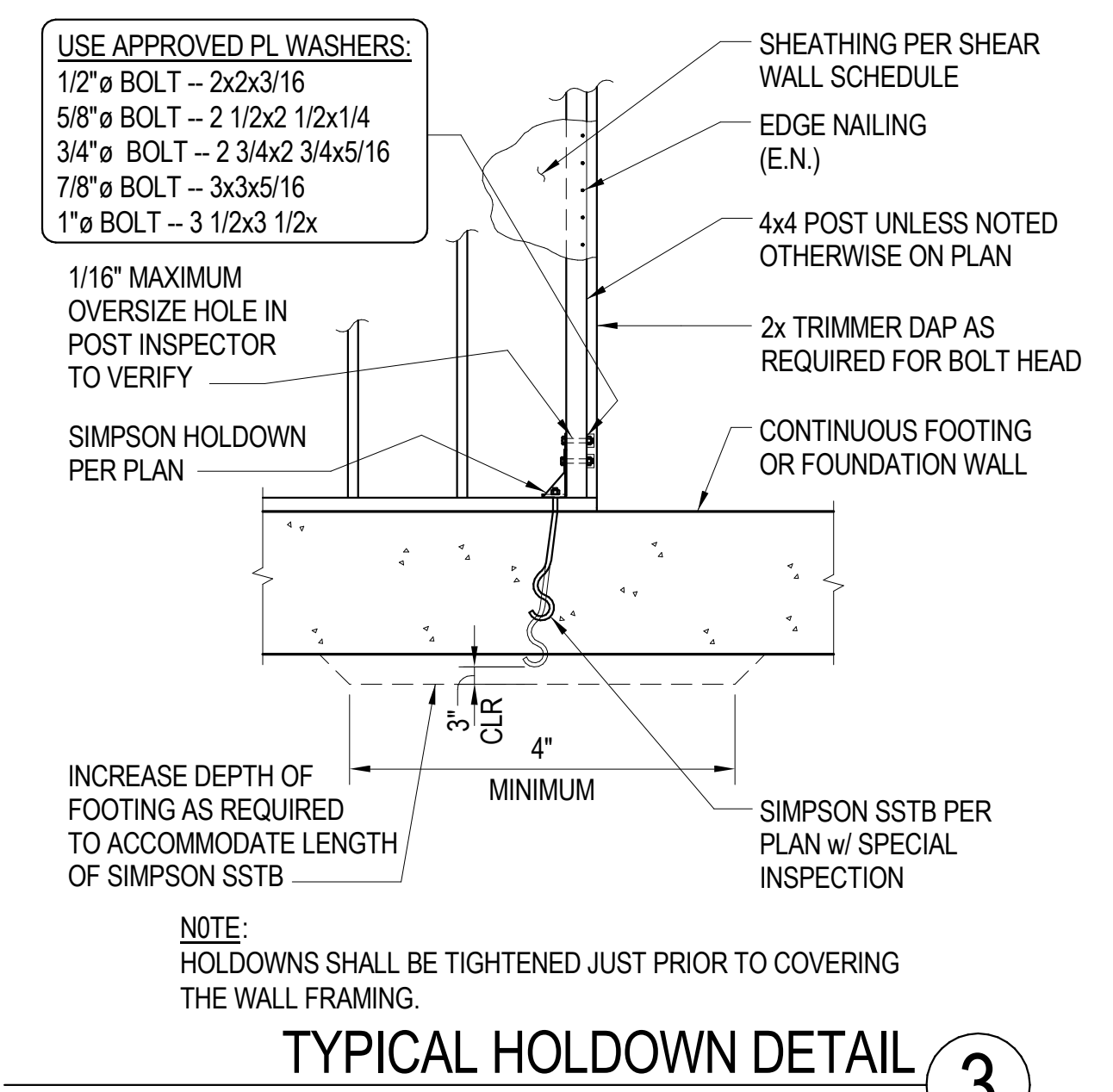


MARK	MATERIAL	NAILING (EDGE/FIELD)	UPPER FLOOR SILL PL NAILING	BLOCKING TO DOUBLE PL	ANCHOR BOLT SPACING	REMARKS
SW1	15/32" CDX 4-PLY OR 5-PLY PLYWOOD 32/16	10d @ 6:12	16d @ 6"o.c.	SIMPSON A35 @ 16"o.c. ALT. SIMPSON LTP4 @ 24"o.c.	5/8" @ 48"o.c.	CAPACITY:310 PLF
SW2	15/32" STRUCT-I 4-PLY OR 5-PLY PLYWOOD 32/16	10d @ 6:12	16d @ 4"o.c.	SIMPSON A35 @ 16"o.c. ALT. SIMPSON LTP4 @ 22"o.c.	5/8" @ 32"o.c.	CAPACITY:340 PLF
SW3	15/32" STRUCT-I 4-PLY OR 5-PLY PLYWOOD 32/16	10d @ 4:12	16d @ 3 1/2"o.c.	SIMPSON A35 @ 10"o.c. ALT. SIMPSON LTP4 @ 16"o.c.	5/8" @ 32"o.c.	CAPACITY:510 PLF
SW4	15/32" STRUCT-I 4-PLY OR 5-PLY PLYWOOD 32/16	10d @ 3:12	1/2" @ LAG SCREW @ 9"o.c. *	SIMPSON A35 @ 8"o.c. ALT. SIMPSON LTP4 @ 12"o.c.	5/8" @ 24"o.c.	CAPACITY:665 PLF PRE-DRILL FOR LAG SCREW
SW5	15/32" STRUCT-I 4-PLY OR 5-PLY PLYWOOD 32/16	10d @ 2:12	1/2" @ LAG SCREW @ 9"o.c. *	SIMPSON A35 @ 6"o.c. ALT. SIMPSON LTP4 @ 9"o.c.	5/8" @ 18"o.c.	CAPACITY:870 PLF PRE-DRILL FOR LAG SCREW
SW6	15/32" STRUCT-I 4-PLY OR 5-PLY PLYWOOD 32/16	10d @ 4:12	1/2" @ LAG SCREW @ 8"o.c. *	SIMPSON A35 @ 5"o.c. ALT. SIMPSON LTP4 @ 8"o.c.	5/8" @ 16"o.c.	CAPACITY:1020 PLF PRE-DRILL FOR LAG SCREW
SW7	15/32" STRUCT-I 4-PLY OR 5-PLY PLYWOOD 32/16	10d @ 3:12	1/2" @ LAG SCREW @ 6"o.c. *	SIMPSON A35 @ 9"o.c. EA. SIDE ALT. SIMPSON LTP4 @ 12"o.c. EA. SIDE	5/8" @ 12"o.c.	CAPACITY:1330 PLF PRE-DRILL FOR LAG SCREW
SW8	15/32" STRUCT-I 4-PLY OR 5-PLY PLYWOOD 32/16	10d @ 2:12	1/2" @ LAG SCREW @ 5"o.c. *	SIMPSON A35 @ 6"o.c. EA. SIDE ALT. SIMPSON LTP4 @ 9"o.c. EA. SIDE	5/8" @ 9"o.c.	CAPACITY:1740 PLF PRE-DRILL FOR LAG SCREW

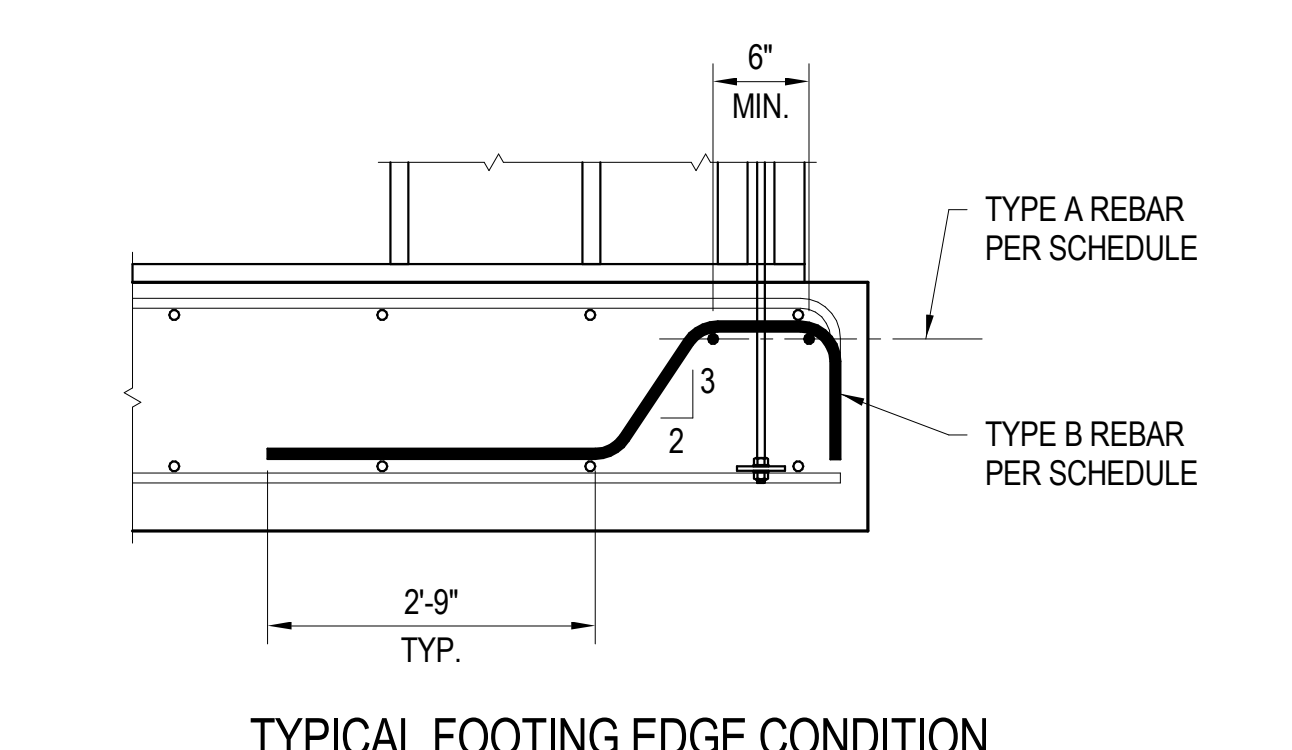
\* INDICATES WITH 4 1/4" EMBEDMENT INTO MINIMUM 1 3/4"x TIMBER STRAND BLOCKING OR RIM JOIST. MINIMUM EDGE DISTANCE SHALL BE 3/4". USE FULL BODY DIAMETER LAG SCREWS ONLY.

- NOTES:**
- FRAMING AT ADJOINING PANEL EDGES SHALL BE NOMINAL 3" OR WIDER. NAILS SHALL BE STAGGERED IN TWO ROWS ALONG PANEL EDGES.
  - ALL NAILS SHALL BE COMMON NAILS. PROVIDE HOT DIPPED GALVANIZED NAILS AT ALL FIRE TREATED OR PRESSURE TREATED PLYWOOD AND STUDS.
  - WHERE PLYWOOD IS APPLIED ON BOTH FACES OF A WALL AND NAIL SPACING IS LESS THAN 6"o.c. ON EITHER SIDE, PANEL JOINTS SHALL BE OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS OR FRAMING SHALL BE 3" NOMINAL OR THICKER AND NAILS ON EACH SIDE BE STAGGERED. 3x FRAMING SHALL BE USED AT BOTTOM SILL PLATE AND ALL BLOCKING.
  - NAILS SHALL BE PLACED AT LEAST 3/8" FROM PANEL EDGES AND AT LEAST 1/4" FROM THE EDGE OF THE CONNECTING MEMBERS.
  - SIMPSON LTP4 FRAMING ANCHOR (LARR #25293) MAY BE APPLIED OVER 1/2" SHEATHING WITH 8d COMMON NAILS IN LIEU OF 8dX1 1/2" NAILS.
  - INDICATES SHEATHING OCCURS ON BOTH SIDES OF WALL AS SHOWN ON PLAN.
  - SHEATHING NAILS OR OTHER APPROVED SHEATHING CONNECTORS SHALL BE DRIVEN SUCH THAT THEIR HEAD OR CROWN IS FLUSH WITH THE SURFACE OF THE SHEATHING. OVER-DRIVEN NAILS WILL BE DEEMED UNSATISFACTORY.
  - PROVIDE A SINGLE 3x NOMINAL OR WIDER FRAMING MEMBER AT BOTTOM SILL PLATE AND BEHIND VERTICAL AND HORIZONTAL EDGES. MINIMUM 1/2" EDGE NAILING DISTANCE AT PANEL ENDS AND EDGES, AND STRUCTURAL OBSERVATION PER GENERAL NOTES.
  - PL 1/4x3x0'-3" CAN BE USED IN 6" WALLS WHEN STAGGERED. SEE DETAIL.

**TYPICAL SHEAR WALL SCHEDULE** TWW404 1

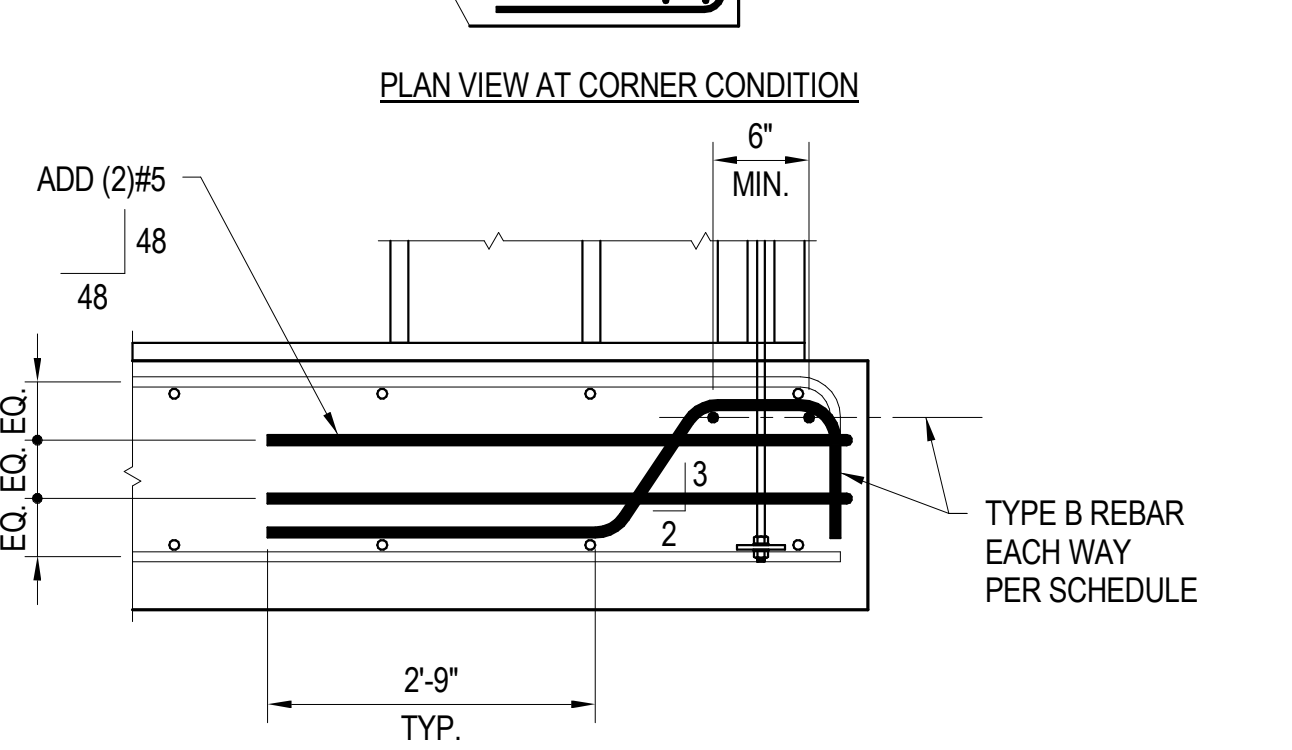


**TYPICAL HOLDOWN DETAIL** TWW401 3

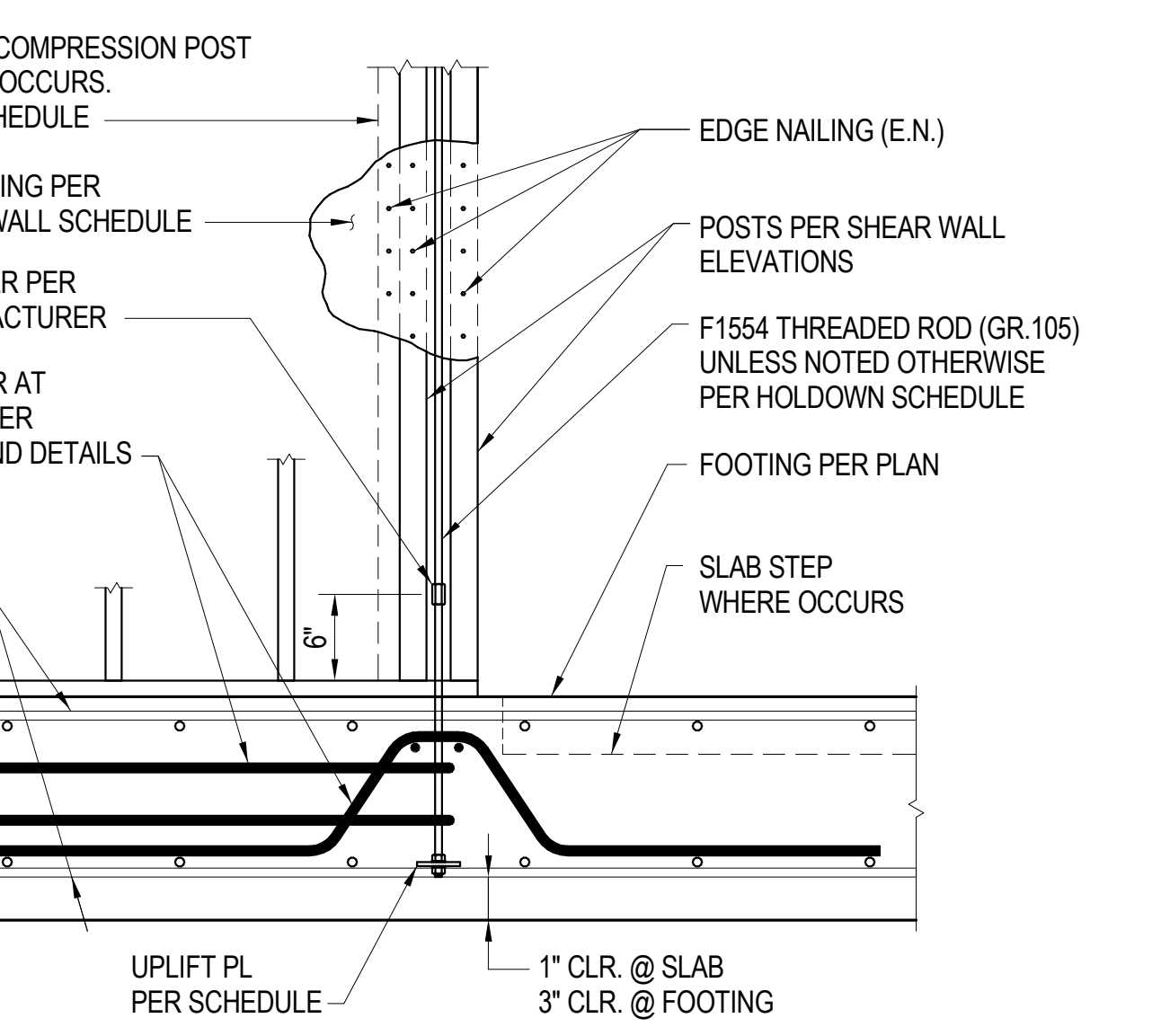


**TYPICAL FOOTING INTERIOR CONDITION**

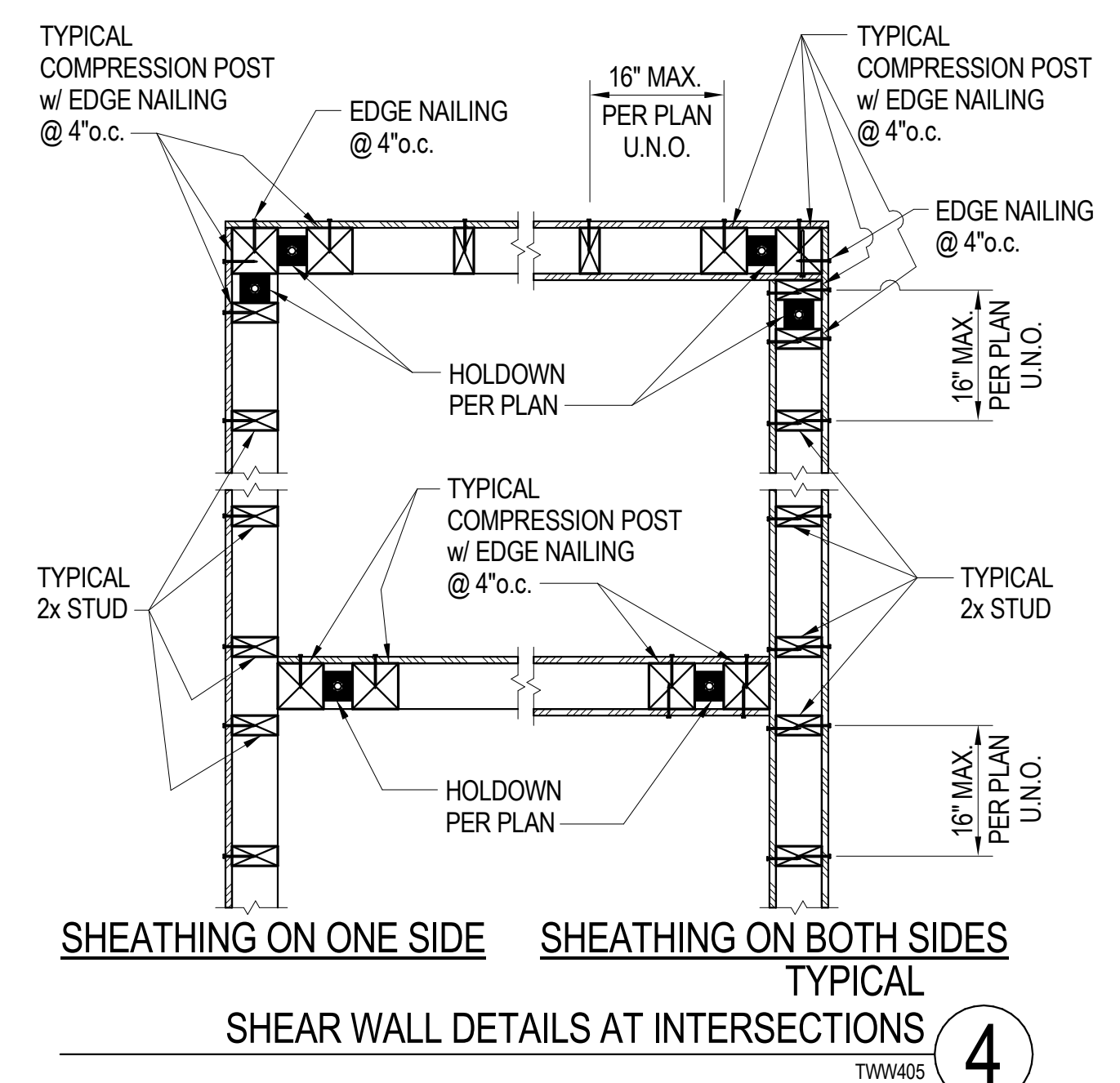
**TYPICAL FOOTING EDGE CONDITION**



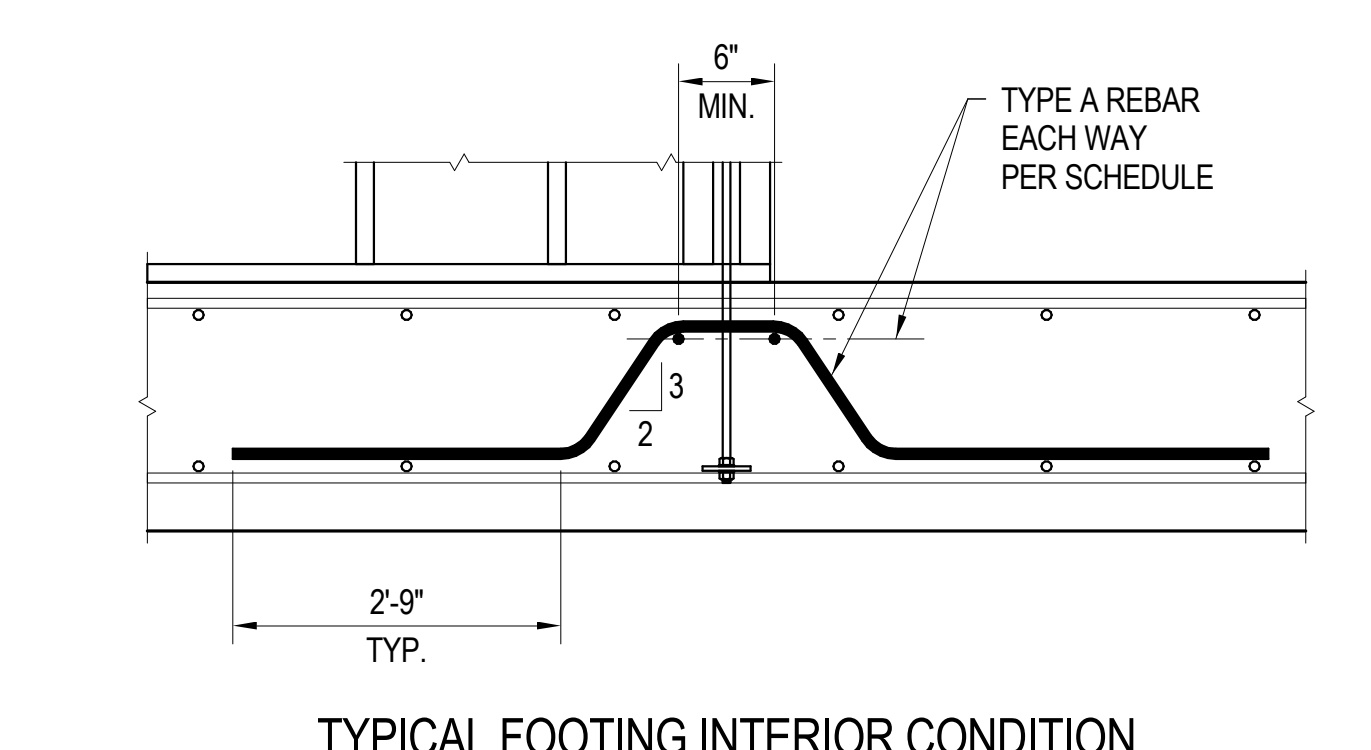
**TYPICAL FOOTING CORNER CONDITION**



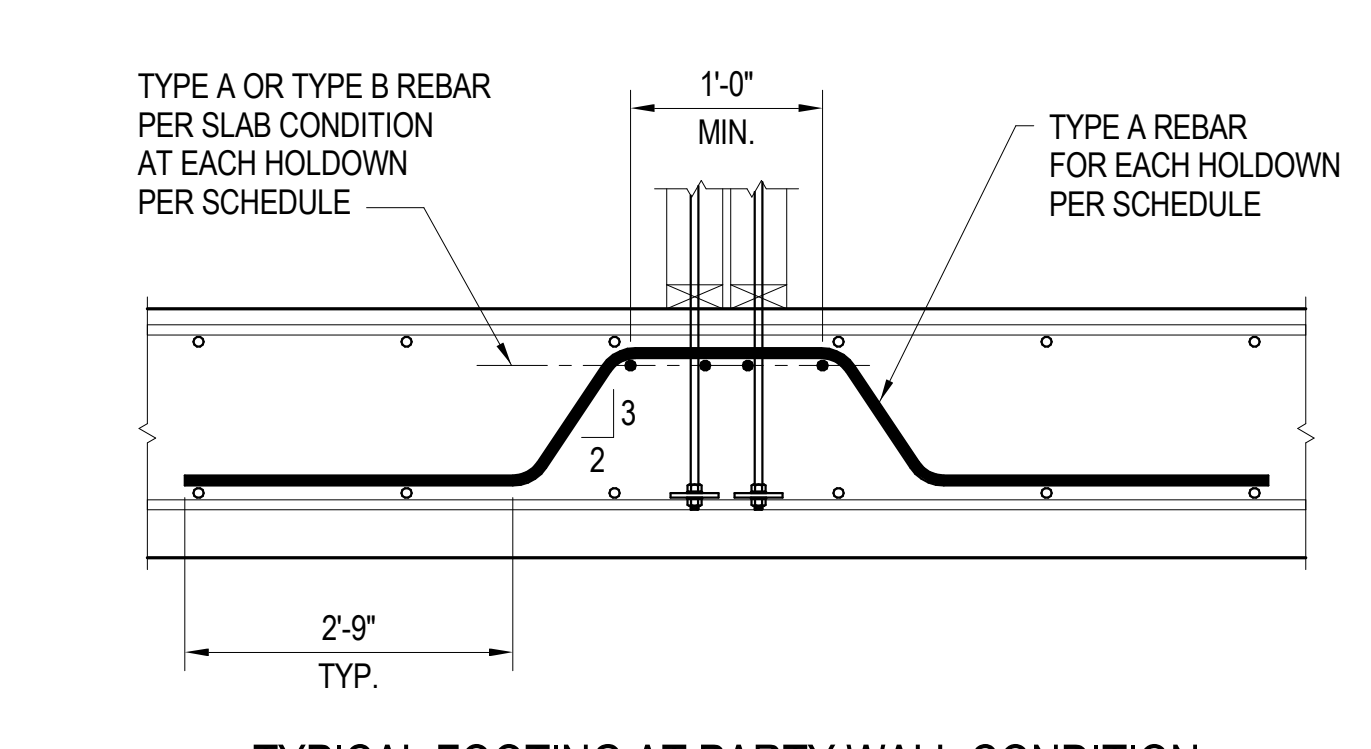
**TYPICAL HOLDOWN ANCHORAGE DETAIL** TWW407 MOD. 2



**SHEATHING ON ONE SIDE SHEATHING ON BOTH SIDES TYPICAL SHEAR WALL DETAILS AT INTERSECTIONS** TWW405 4



**TYPICAL FOOTING INTERIOR CONDITION**



**TYPICAL FOOTING AT PARTY WALL CONDITION**

**\* ADDED REBAR SCHEDULE**

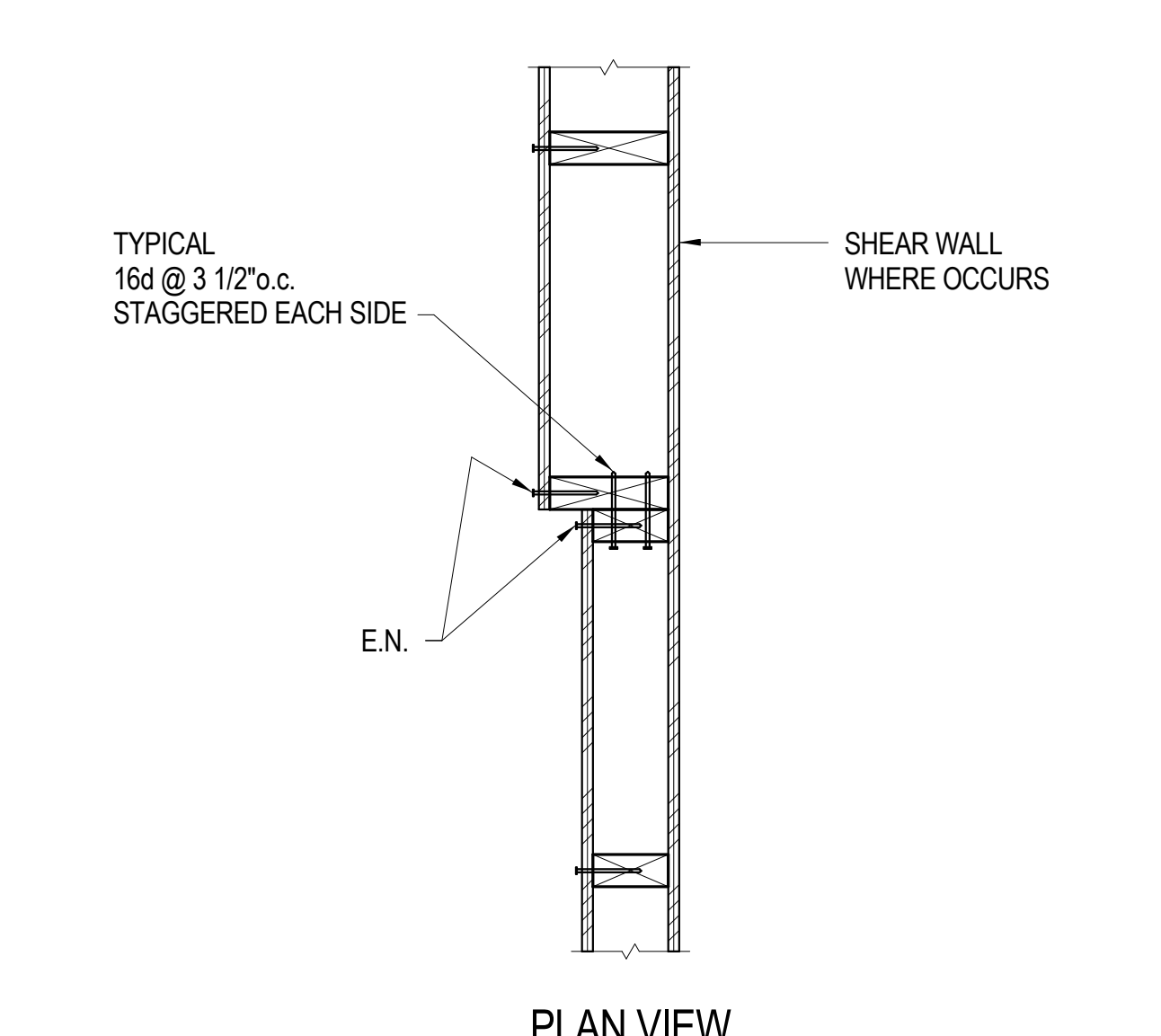
ROD DIAMETER	ADDED REBAR	
	TYPE A	TYPE B
UP TO 7/8"	---	---
1"	---	(2)#6
1 1/8"	---	(3)#6
1 1/4"	(2)#6	(3)#6
1 1/2"	(3)#6	(5)#6

\* TYPICAL ADDED REBAR SHALL BE (2)#5 U.N.O. IN SCHEDULE. PROVIDE MINIMUM 3" SPACING BETWEEN ADDED REBARS.

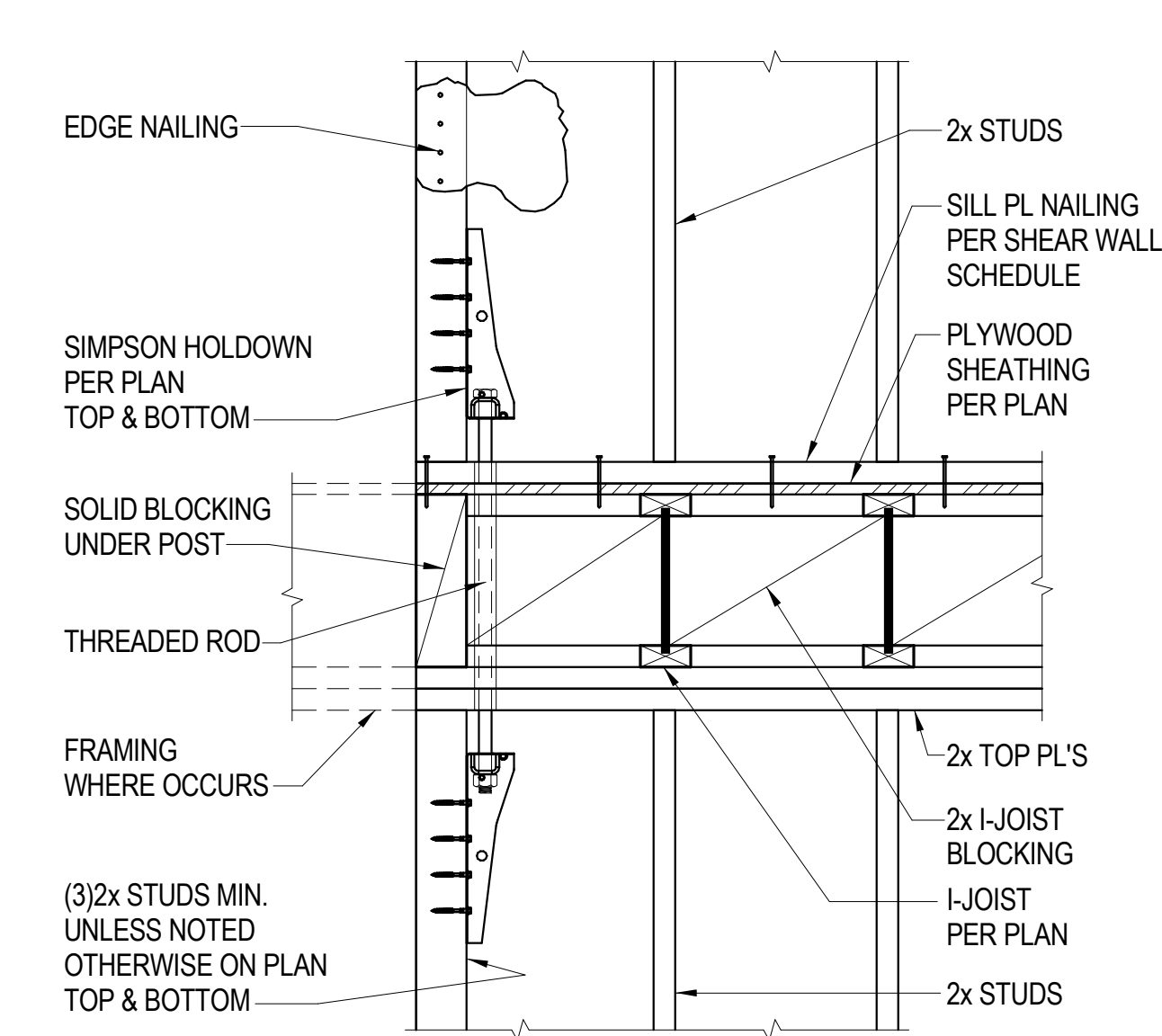
**UPLIFT PL. (GR.36) SCHEDULE**

ROD DIAMETER	UPLIFT PLATE (dLxW)
UP TO 7/8"	5/8"x2 1/2"x2 1/2"
1" TO 1 1/4"	1"x3 1/2"x3 1/2"
1 1/2"	1 1/8"x4"x4"

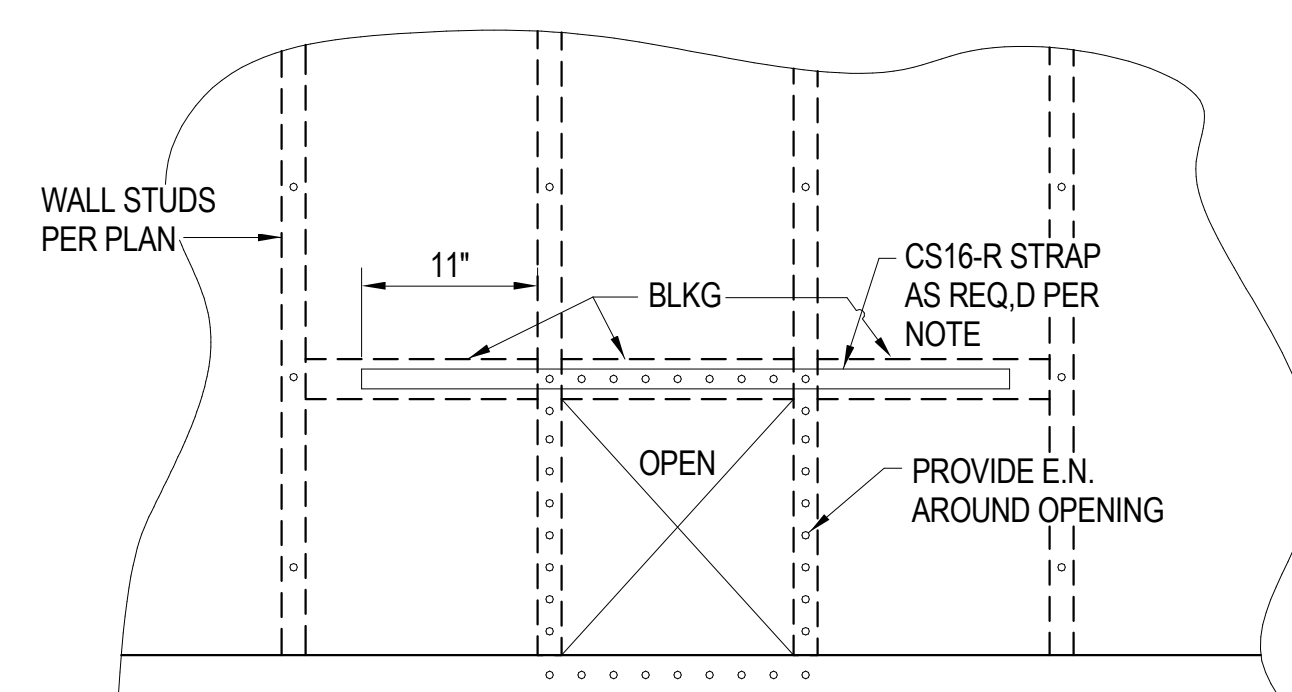
**NOTE:**  
 1. HOLDOWNS SHALL BE TIGHTENED JUST PRIOR TO COVERING THE WALL FRAMING.  
 2. HOLDOWNS MUST BE TIED IN PLACE PRIOR TO SLAB INSPECTION.



**TYPICAL SHEAR WALL PANEL AT CHANGE IN STUD SIZE** TWW414 7



**TYPICAL SHEAR WALL HOLDOWN AT UPPER FLOOR DETAIL** TWW406 6



**NOTES:**  
 CS16-R STRAP IS REQUIRED WHEN:  
 1. THE PENETRATION IS LARGER THAN 25% OF WALL LENGTH.  
 2. THE PENETRATIONS ARE CLOSER THAN 32"o.c.  
 3. A SECOND HORIZONTAL STRAP IS REQUIRED AT THE BOTTOM OF OPENING WHEN BOTTOM OF OPENING IS NOT AT BOTTOM PLATE. 16"x16" MAXIMUM OPENING SIZE.

BLOCKING AND STRAPS NOT REQUIRED WHEN PENETRATION IS LESS THAN OR EQUAL TO 6" AND SPACED AT 2 OR MORE STUD BAYS.

**TYPICAL SHEAR WALL PENETRATION (16"x16") DETAIL** TWW411 5



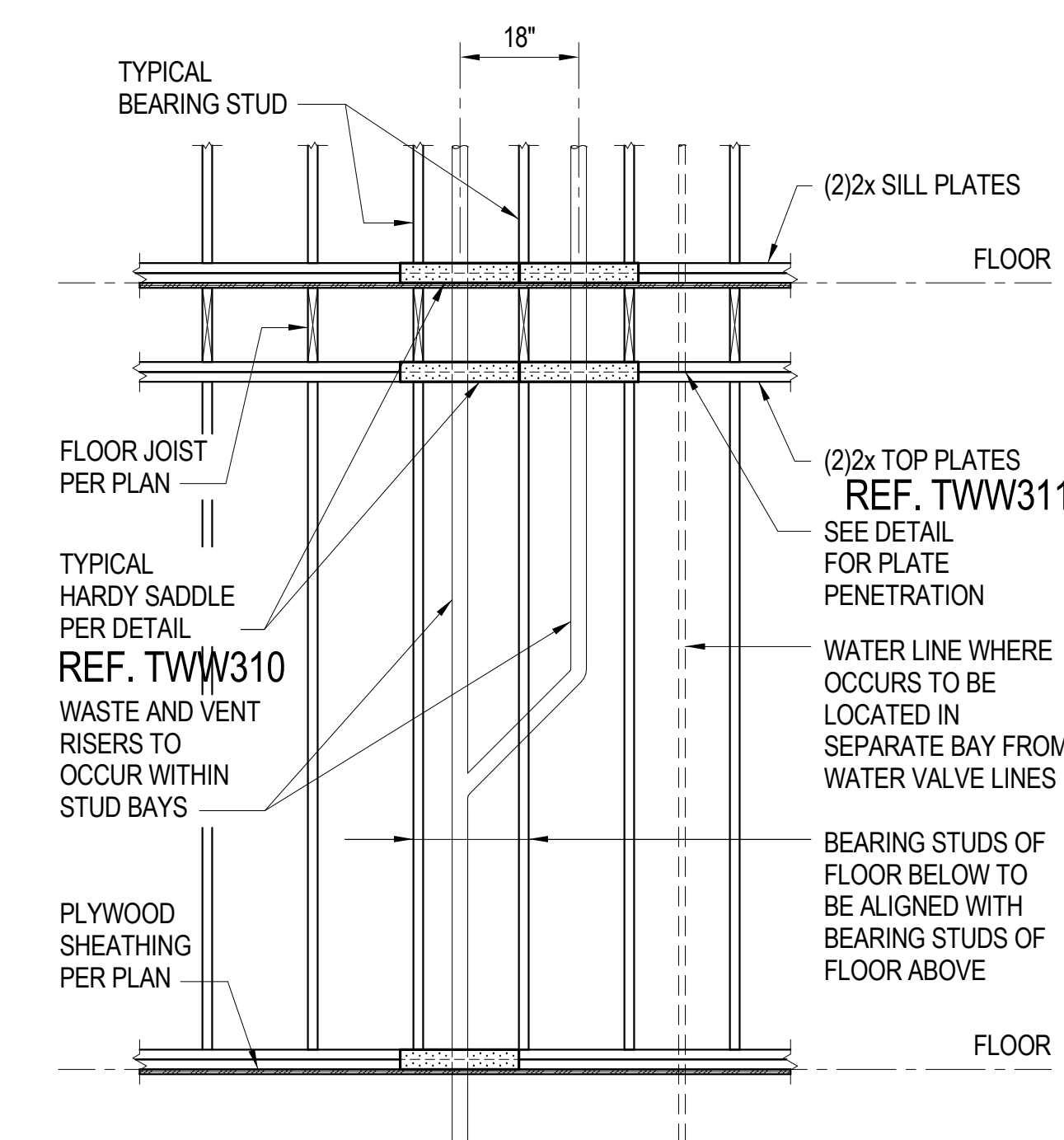
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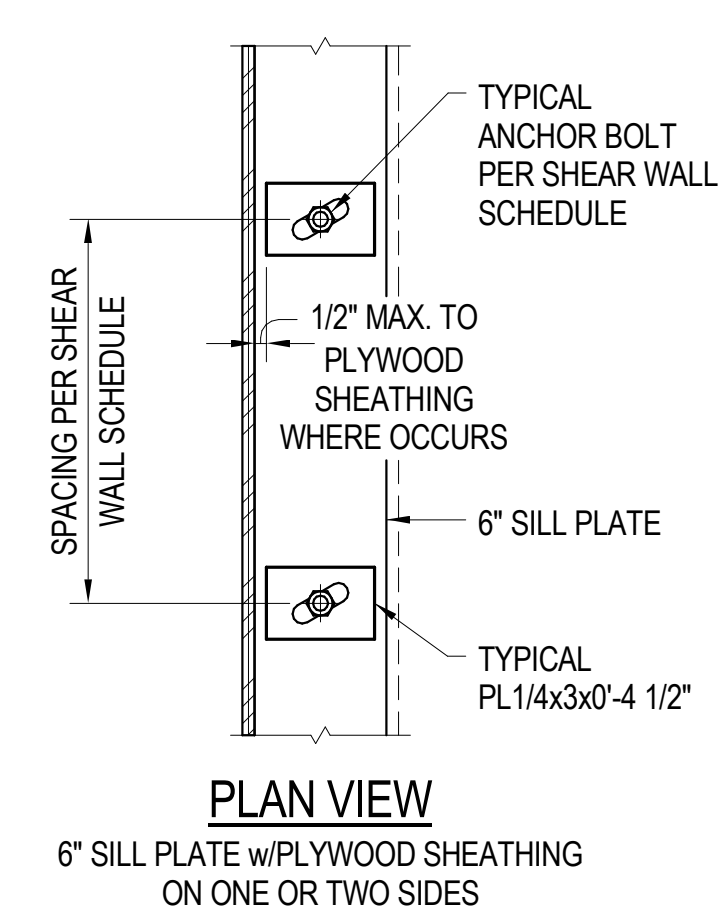
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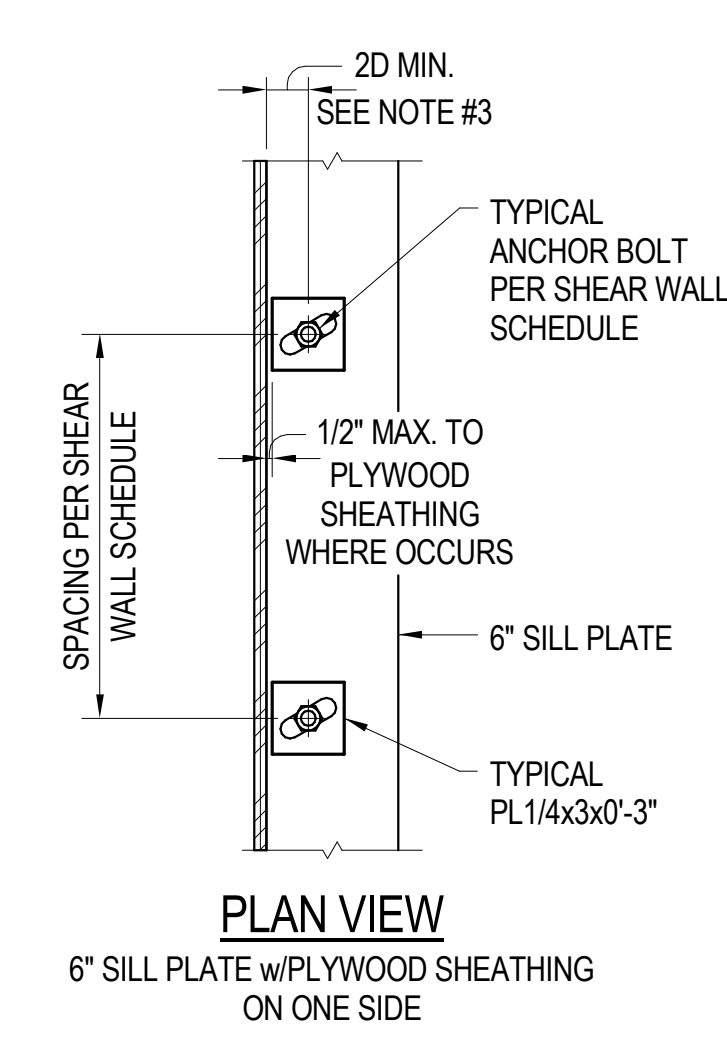


**NOTE:**  
 THIS DETAIL APPLIES WHEN PENETRATION SIZE LIMITS OF "TYPICAL DETAIL FOR PENETRATIONS IN TOP OR BOTTOM PLATE MEMBER" CAN NOT BE MET.

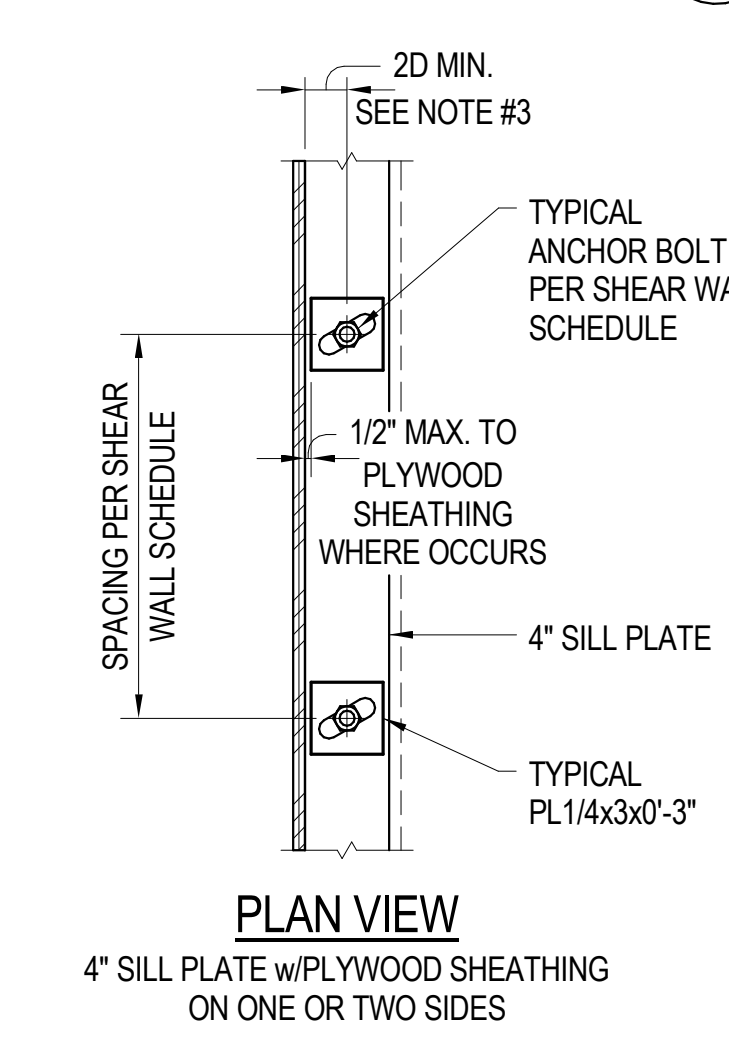
**TYPICAL PLUMBING RISERS PENETRATION AT BEARING OR SHEAR WALL DETAIL**  
 TWW309 **2**



**PLAN VIEW**  
 6" SILL PLATE w/PLYWOOD SHEATHING ON ONE OR TWO SIDES



**PLAN VIEW**  
 6" SILL PLATE w/PLYWOOD SHEATHING ON ONE SIDE



**PLAN VIEW**  
 4" SILL PLATE w/PLYWOOD SHEATHING ON ONE OR TWO SIDES

- NOTES:**
- AT CONTRACTOR'S OPTION, DIAGONAL SLOTS IN PLATE CAN BE USED. DIAGONAL SLOT SHALL BE BOLT DIAMETER + 3/16" WIDE x 1 3/4" LONG MAX. CENTERED ON PLATE. USE STANDARD WASHER BETWEEN SLOTTED PLATE AND NUT.
  - SIMPSON BP-3, BPS-3 OR BPS-6 MAY BE USED AT CONTRACTOR'S OPTION.
  - ANCHOR BOLT SHALL BE PLACED A MINIMUM OF 2x BOLT DIAMETER FROM SHEATHING EDGE OF SILL PLATE.

**TYPICAL ALTERNATE WASHER PLATE DETAIL**  
 TWW401 **1**

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REVISIONS		
NO.	DATE	DESCRIPTION
07/14/17	3RD PLAN CHECK SUBMITTAL	

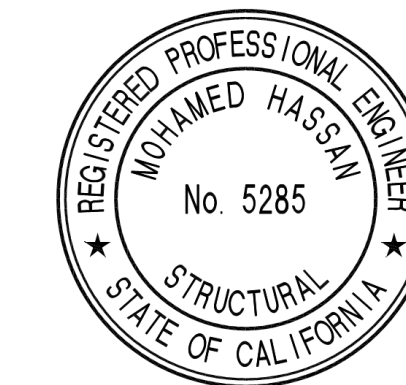
**TYPICAL WOOD SHEAR WALL DETAILS**

SHEET SCALE:	As Indicated
PROJECT MANAGER:	MH
DESIGNER:	JN
DRAWN BY:	FS
REVIEWED BY:	
1st DEPT. SUBMITTAL:	XX/2016
ISSUED FOR CONST.:	
JOB NUMBER	16-5003
CAD FILE NAME	

S5.12



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 2850 REDHILL AVENUE, SUITE 200, SANTA ANA, CA 92705-5943  
 949 250 6037 www.hezarchitects.com fax 949 250 1529  
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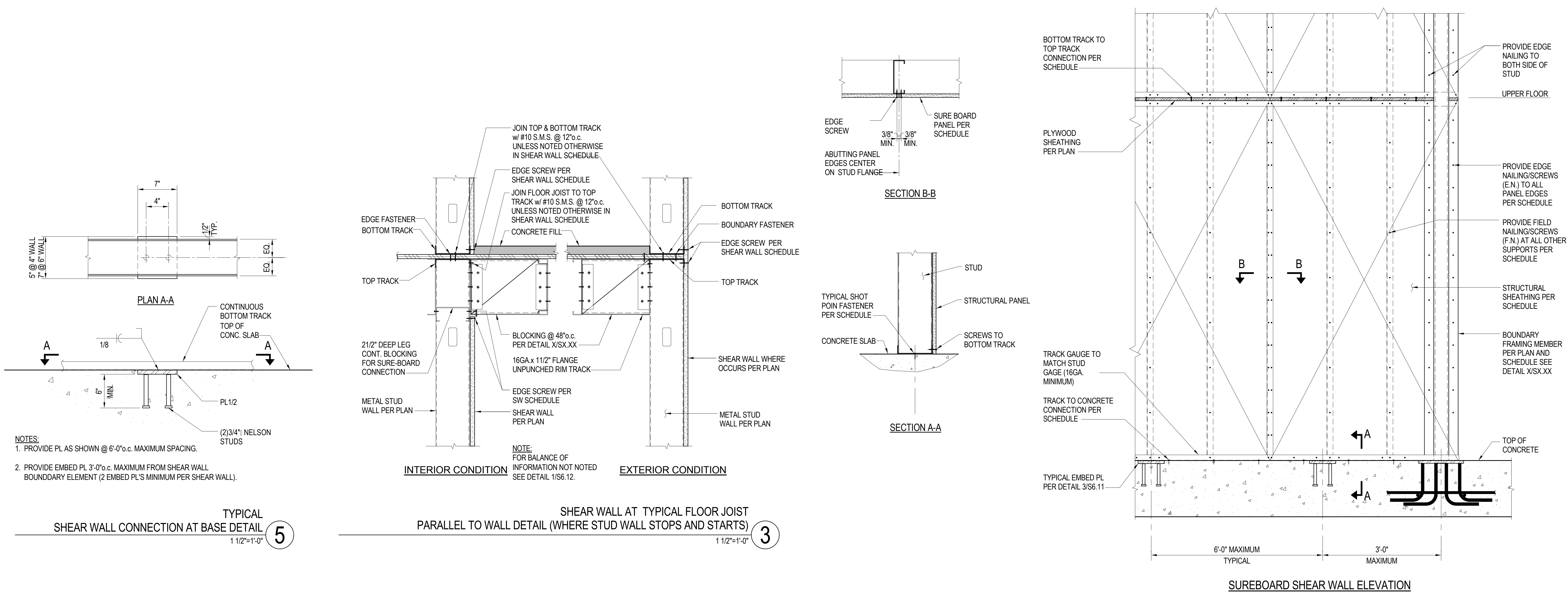
NO.	DATE	DESCRIPTION
07/14/17	3RD PLAN CHECK SUBMITTAL	

**TYPICAL SUREBOARD SHEAR WALL DETAILS**

SHEET SCALE:	As Indicated
PROJECT MANAGER:	MH
DESIGNER:	JN
DRAWN BY:	FS
REVIEWED BY:	
1st DEPT. SUBMITTAL:	XX/2016
ISSUED FOR CONST.:	
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CAD FILE NAME:	

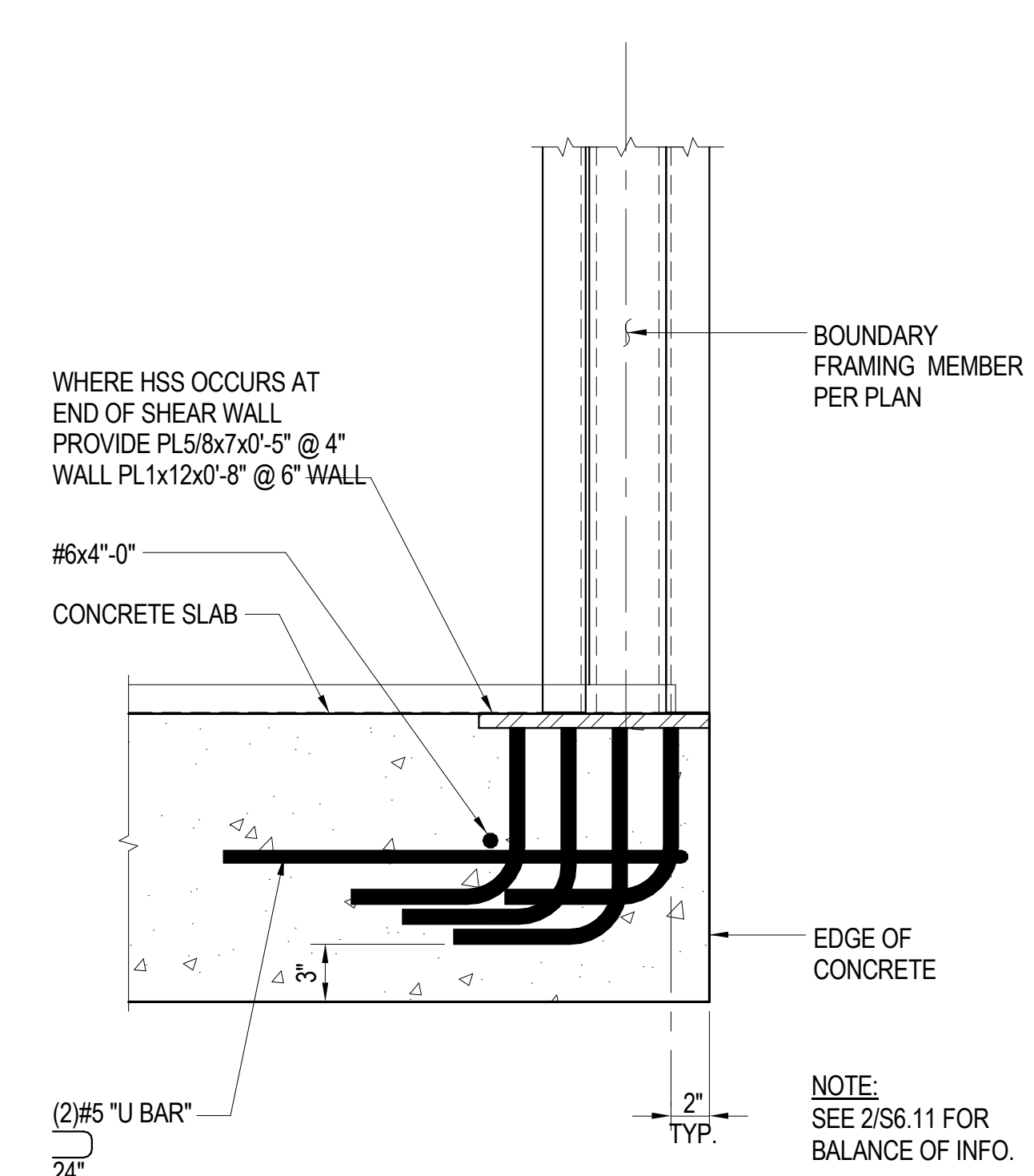
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2ND BUILDING PLAN CHECK COORDINATION 05.18.2017

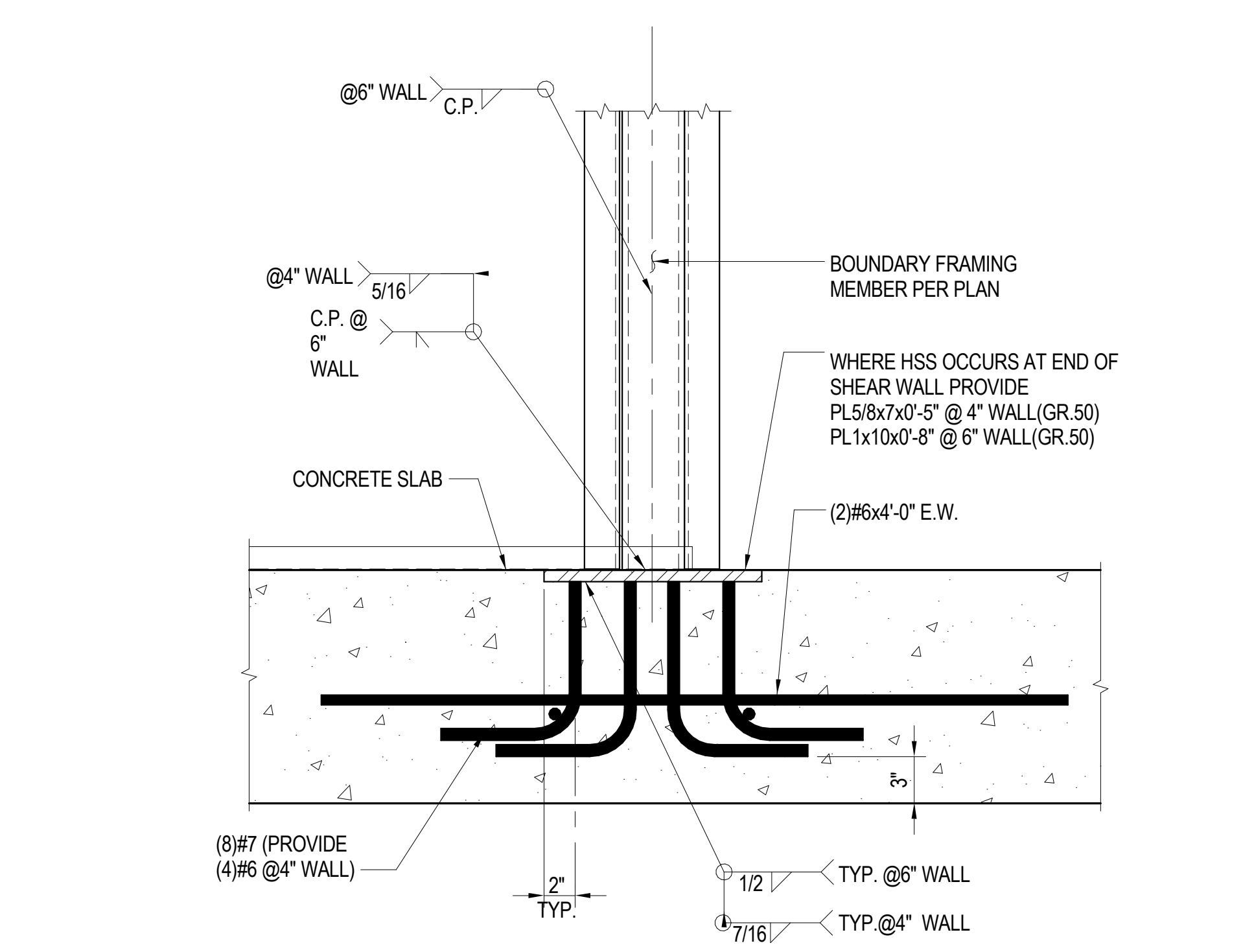


TYPICAL SHEAR WALL CONNECTION AT BASE DETAIL  
 1 1/2"=1'-0" 5

SHEAR WALL AT TYPICAL FLOOR JOIST PARALLEL TO WALL DETAIL (WHERE STUD WALL STOPS AND STARTS)  
 1 1/2"=1'-0" 3



TYPICAL SHEAR WALL BOUNDARY EMBED PLATE DETAIL  
 1 1/2"=1'-0" 4



TYPICAL SHEAR WALL BOUNDARY EMBED PLATE DETAIL  
 1 1/2"=1'-0" 2

SUREBOARD SHEAR WALL SCHEDULE						ICBO ER-572
MARK	MATERIAL	MIN. GAUGE STUDS/TRACK	BOTTOM TRACK TO CONCRETE	BOTTOM TRACK TO TOP TRACK	RIM TRACK TO TOP TRACK	ALLOWABLE CAPACITY
SB1	SUREBOARD FULLY BLOCKED, w/#10 S.M.S. @6"o.c. AT PANEL EDGES AND @12"o.c. AT FIELD	20GA.	HILTI DN32 P8 @24"o.c. POWDER	#12 S.M.S. @6"o.c.	#10 S.M.S. @12"o.c.	434 PLF
SB2	SUREBOARD FULLY BLOCKED, w/#10 S.M.S. @4"o.c. AT PANEL EDGES AND @12"o.c. AT FIELD	20GA.	HILTI DN32 P8 @24"o.c. POWDER	#12 S.M.S. @4"o.c.	#10 S.M.S. @6"o.c.	618 PLF
SB3	SUREBOARD FULLY BLOCKED, w/#10 S.M.S. @3"o.c. AT PANEL EDGES AND @12"o.c. AT FIELD	20GA.	HILTI DN32 P8 @24"o.c. POWDER	#12 S.M.S. @3"o.c.	#10 S.M.S. @6"o.c.	692 PLF
SB4	SUREBOARD FULLY BLOCKED, w/#10 S.M.S. @2"o.c. AT PANEL EDGES AND @12"o.c. AT FIELD	20GA.	HILTI DN32 P8 @24"o.c. POWDER	#12 S.M.S. @3"o.c.	#10 S.M.S. @6"o.c.	766 PLF
SB5	SUREBOARD FULLY BLOCKED, w/#10 S.M.S. @2"o.c. AT PANEL EDGES AND @12"o.c. AT FIELD	18GA.	HILTI DN32 P8 @24"o.c. POWDER	#12 S.M.S. @4"o.c.	#10 S.M.S. @12"o.c.	562 PLF
SB6	SUREBOARD FULLY BLOCKED, w/#10 S.M.S. @4"o.c. AT PANEL EDGES AND @12"o.c. AT FIELD	18GA.	HILTI DN32 P8 @24"o.c. POWDER	#12 S.M.S. @3"o.c.	#10 S.M.S. @6"o.c.	770 PLF
SB7	SUREBOARD FULLY BLOCKED, w/#10 S.M.S. @3"o.c. AT PANEL EDGES AND @12"o.c. AT FIELD	18GA.	HILTI DN32 P8 @24"o.c. POWDER	#12 S.M.S. @3"o.c.	#10 S.M.S. @6"o.c.	858 PLF
SB8	SUREBOARD FULLY BLOCKED, w/#10 S.M.S. @2"o.c. AT PANEL EDGES AND @12"o.c. AT FIELD	18GA.	HILTI DN32 P8 @24"o.c. POWDER	(2) ROWS #12 S.M.S. @4"o.c.	#10 S.M.S. @6"o.c.	944 PLF
SB9	SUREBOARD FULLY BLOCKED, w/#10 S.M.S. @3"o.c. AT PANEL EDGES AND @12"o.c. AT FIELD	16GA.	HILTI DN32 P8 @24"o.c. POWDER	(2) ROWS #12 S.M.S. @4"o.c.	#10 S.M.S. @4"o.c.	1158 PLF
SB10	SUREBOARD FULLY BLOCKED, w/#10 S.M.S. @2"o.c. AT PANEL EDGES AND @12"o.c. AT FIELD	16GA.	HILTI DN32 P8 @24"o.c. POWDER DRIVEN	(2) ROWS #12 S.M.S. @4"o.c.	#10 S.M.S. @4"o.c.	1384 PLF

- NOTES:**
- INSTALLATION OF SUREBOARD SHEAR WALLS MUST BE IN ACCORDANCE WITH ICBO IAPMO-ER-126 AND THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS.
  - ALL PANEL EDGES MUST BE BLOCKED. FRAMING MEMBERS SUCH AS STUDS, TOP AND BOTTOM TRACKS ARE CONSIDERED BLOCKING; PANEL EDGES THAT DO NOT FALL ON FRAMING MEMBERS MUST BE BLOCKED WITH STUDS, TRACK, OR CONTINUOUS FLAT STRAP MATERIAL WITH MINIMUM THICKNESS AND STEEL PROPERTIES AS THE STUD FRAMING MEMBERS PER THE TABLE.
  - SEE PLAN FOR SHEAR WALL BOUNDARY FRAMING MEMBERS.
  - SEE PLAN FOR SHEAR WALL HOLD-DOWN ANCHORS
  - ALL SURE-BOARD STEEL SHEATHING SHALL BE 22GA.
  - PROVIDE STEEL FRAMING PER BEARING WALL SCHEDULE IF GAGE NOTED IN BEARING WALL SCHEDULE IS THICKER THAN STEEL MINIMUM GAGE SHOWN IN SCHEDULE ABOVE.

TYPICAL SUREBOARD SHEAR WALL SCHEDULE  
 N.T.S. 1



**WILLIAM HEZMALHALCH ARCHITECTS INC.**  
 2850 REDHILL AVENUE, SUITE 200, SANTA ANA, CA 92705-5943  
 949 250 0507 www.whearchitects.com fax 949 250 1529  
 6111 BOLLINGER CANYON ROAD, SUITE 405, SAN RAMON, CA 94583-9186  
 925 463 1700 fax 925 463 1725



**Englekirk**  
 STRUCTURAL ENGINEERS  
 3621 Harbor Boulevard  
 Suite 125  
 Santa Ana, CA  
 92704  
 714.557.8551 T  
 www.englekirk.com 714.557.8551 F

**SOUTH COAST SPEEDWASH AT THE AUTOBAHN**

2402 BRISTOL ST. SANTA ANA, CA 92704

BRISTOL SPEEDWASH, INC.  
 10801 NATIONAL BLVD., STE 510 LOS ANGELES, CA. 90064

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DO NOT SCALE PLANS

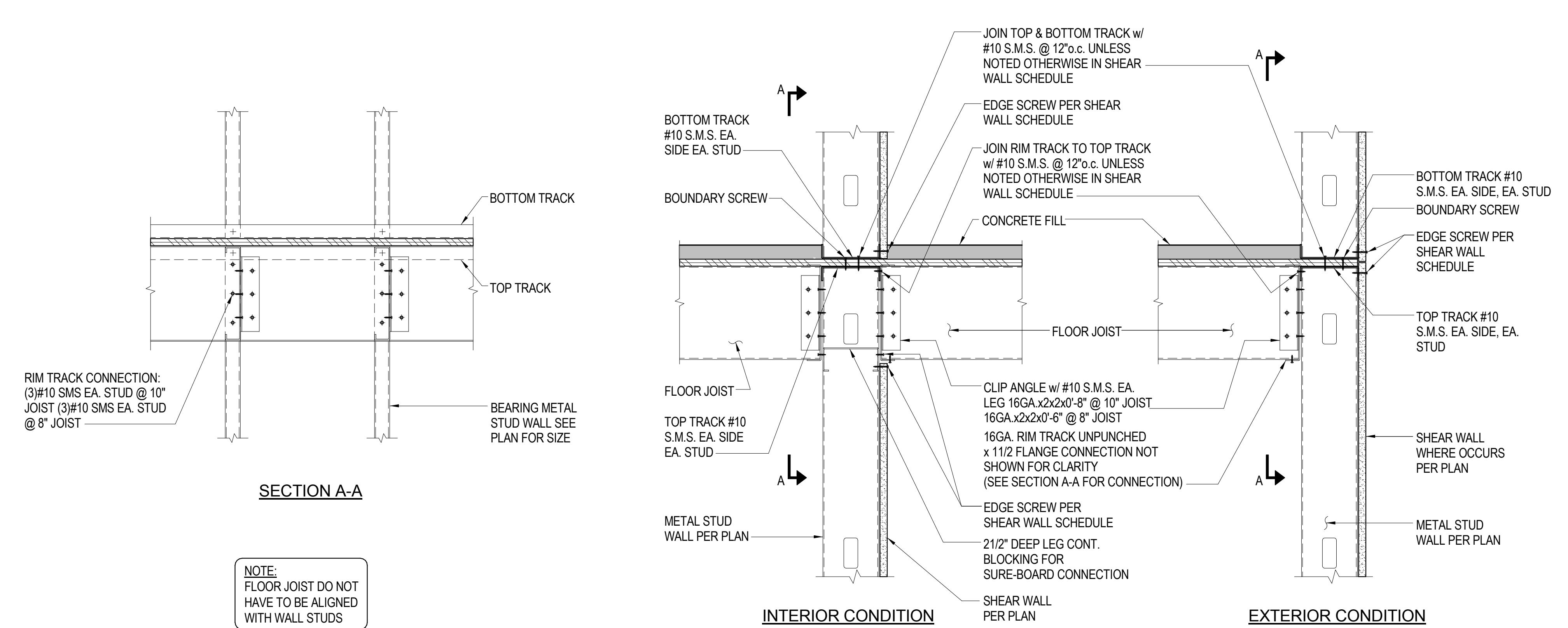
**REVISIONS**

NO.	DATE	DESCRIPTION
07/14/17	3RD PLAN CHECK SUBMITTAL	

**TYPICAL SUREBOARD SHEAR WALL DETAILS**

SHEET SCALE :	1 1/2" = 1'-0"
PROJECT MANAGER :	MH
DESIGNER :	JN
DRAWN BY :	FS
REVIEWED BY :	
1st DEPT. SUBMITTAL :	XX/2016
ISSUED FOR CONST. :	
JOB NUMBER	16-5003
CAD FILE NAME	

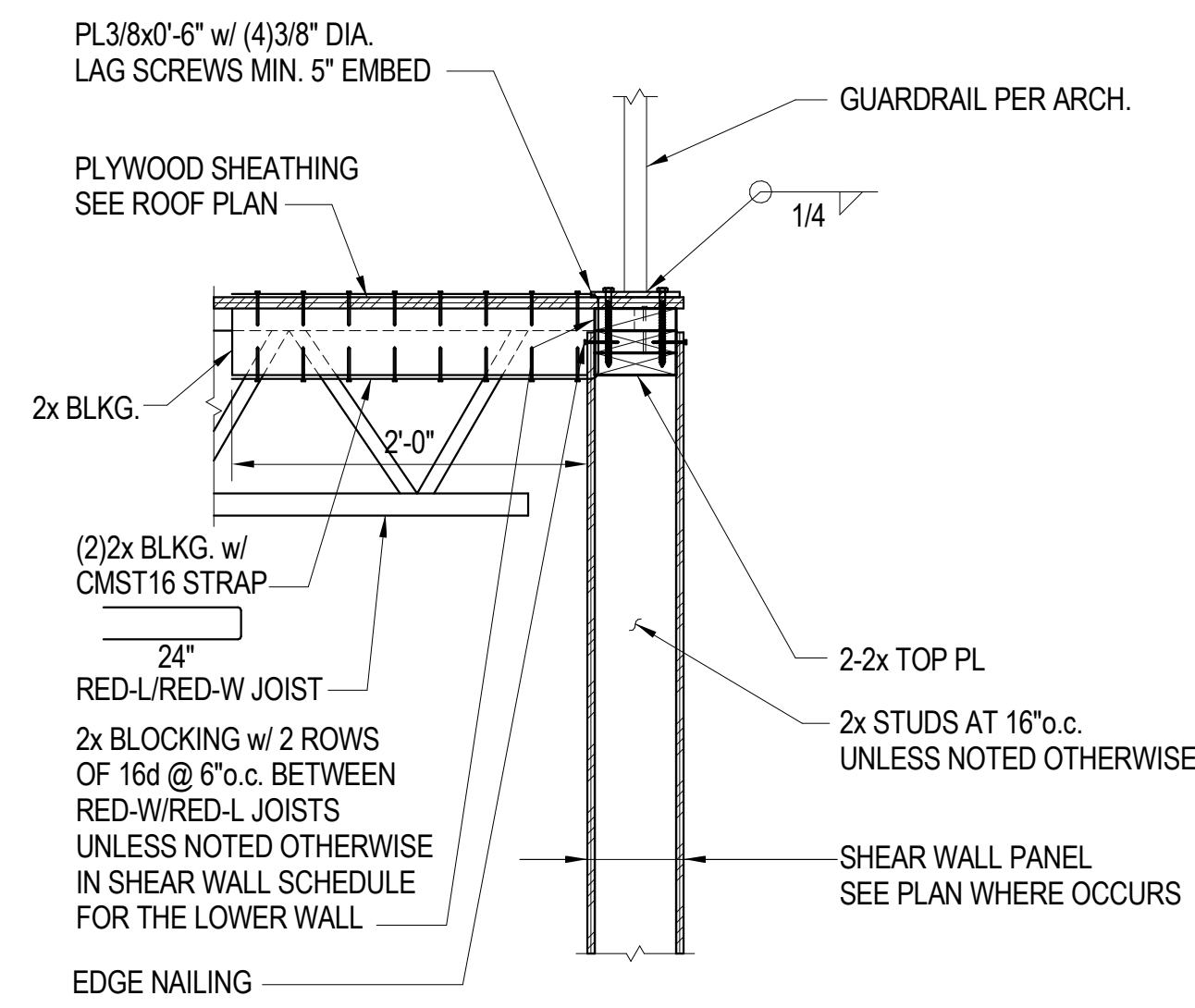
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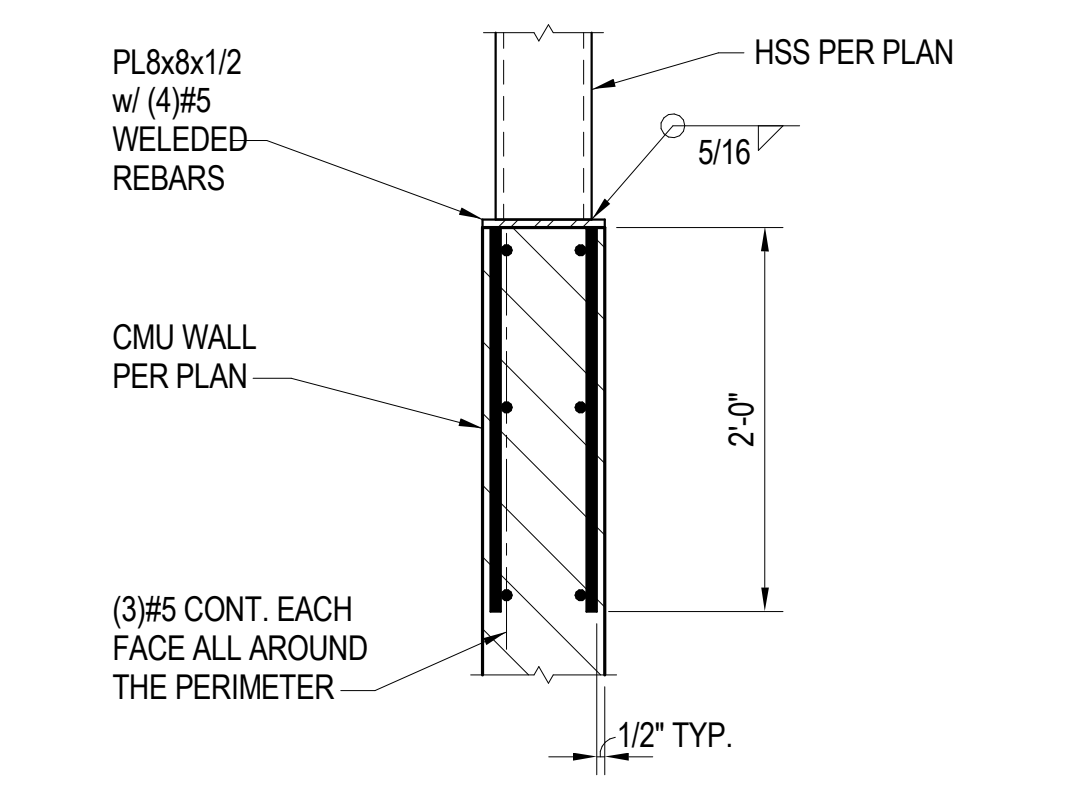
NOTE:  
 FLOOR JOIST DO NOT  
 HAVE TO BE ALIGNED  
 WITH WALL STUDS

**SHEAR WALL AT TYPICAL BEARING METAL STUD WALL DETAILS AT FLOOR**  
 1 1/2"=1'-0" 1

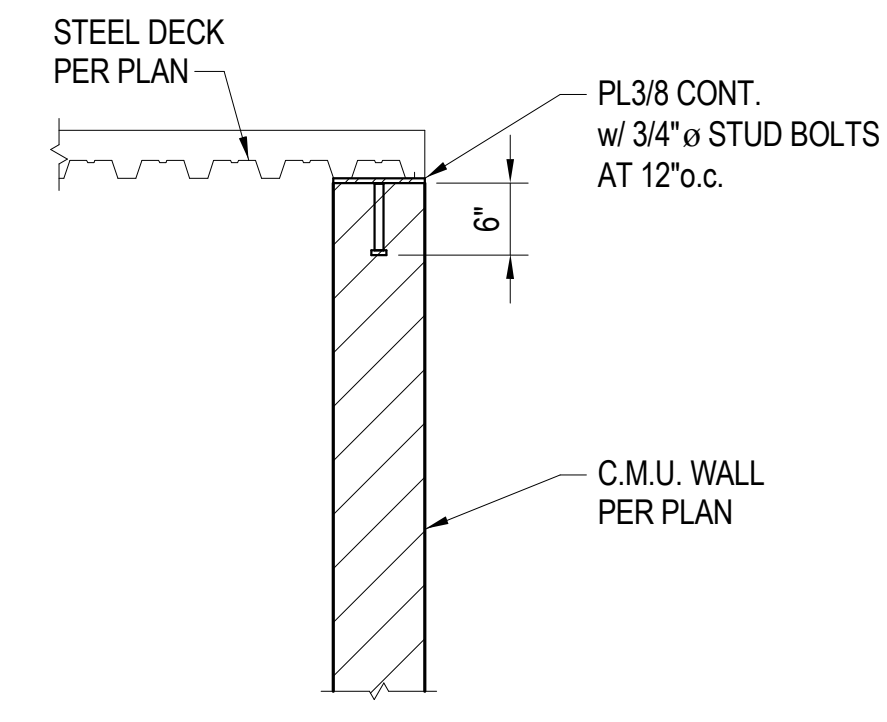
2ND BUILDING PLAN CHECK COORDINATION 05.18.2017



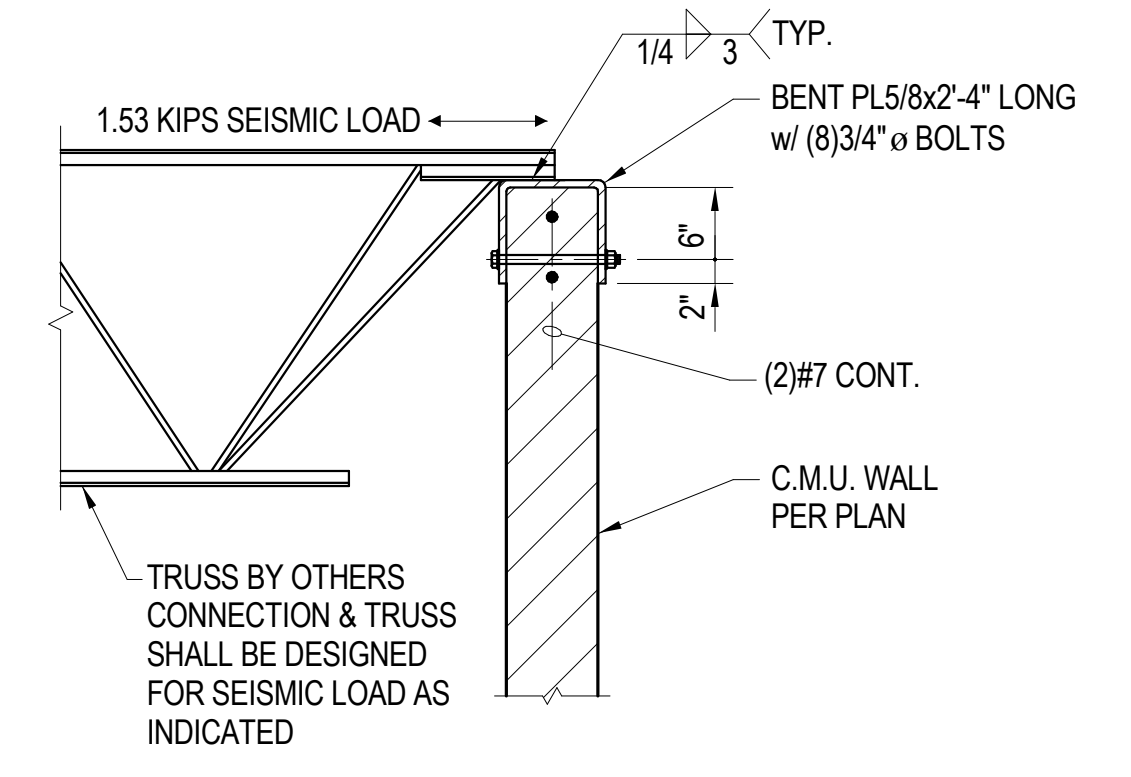
TYPICAL GUARDRAIL AT WOOD DECK  
1"=1'-0" 12



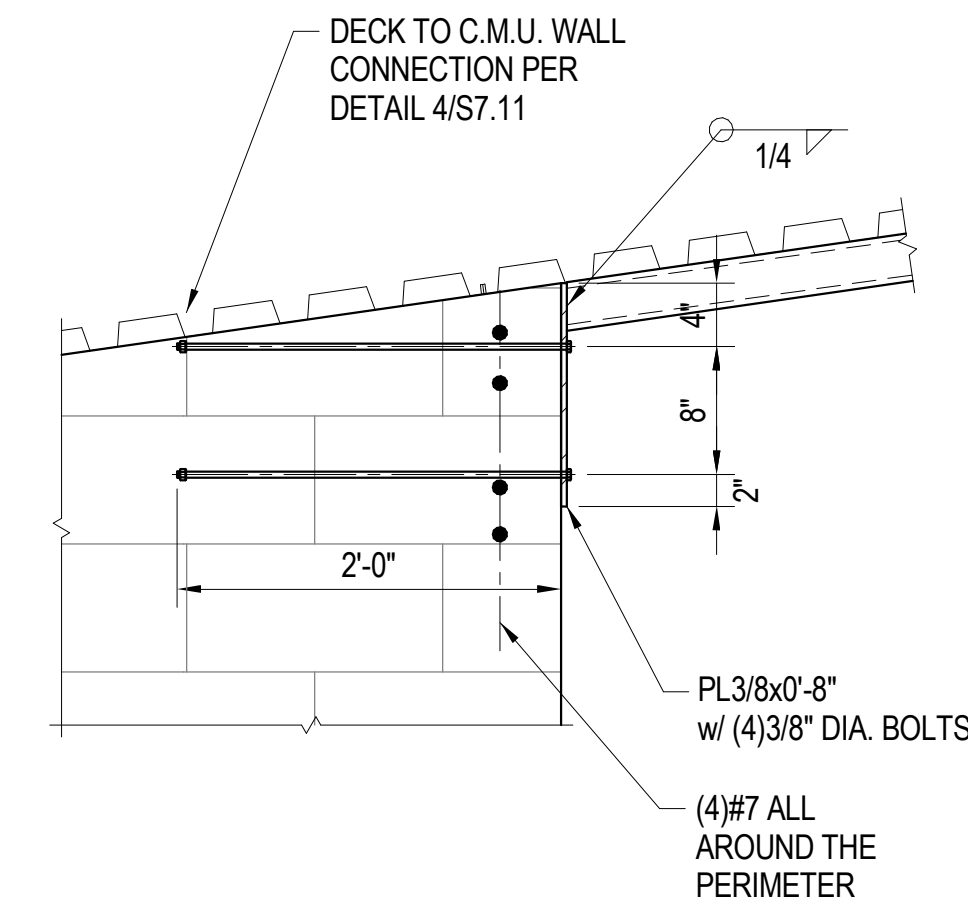
DETAIL 8  
1"=1'-0"



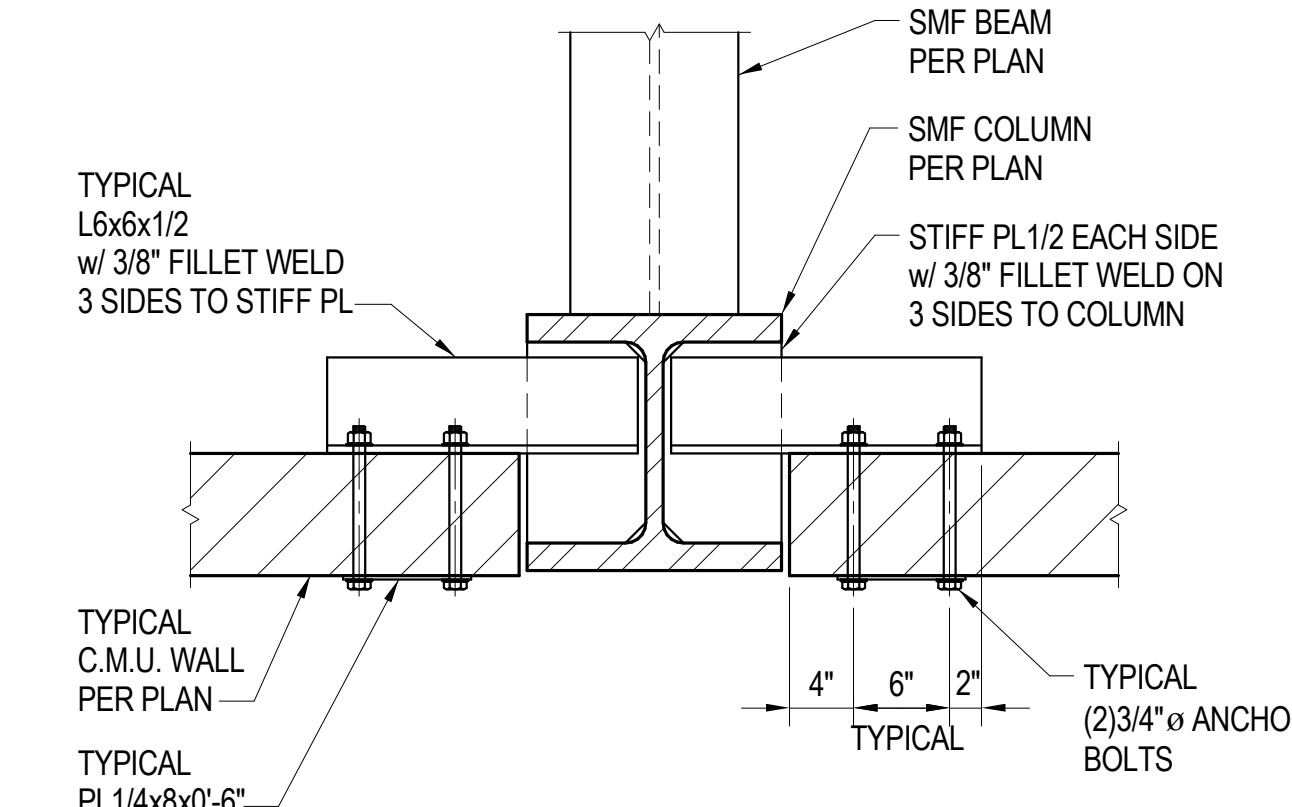
TYPICAL STEEL DECK TO TOP OF C.M.U. WALL DETAIL  
3/4"=1'-0" 4



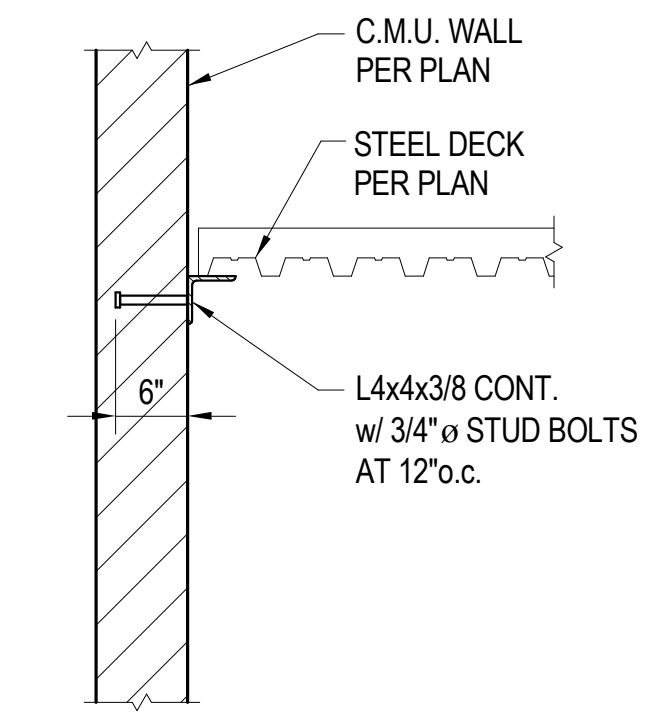
TYPICAL STEEL JOIST TO TOP OF C.M.U. WALL DETAIL  
3/4"=1'-0" 2



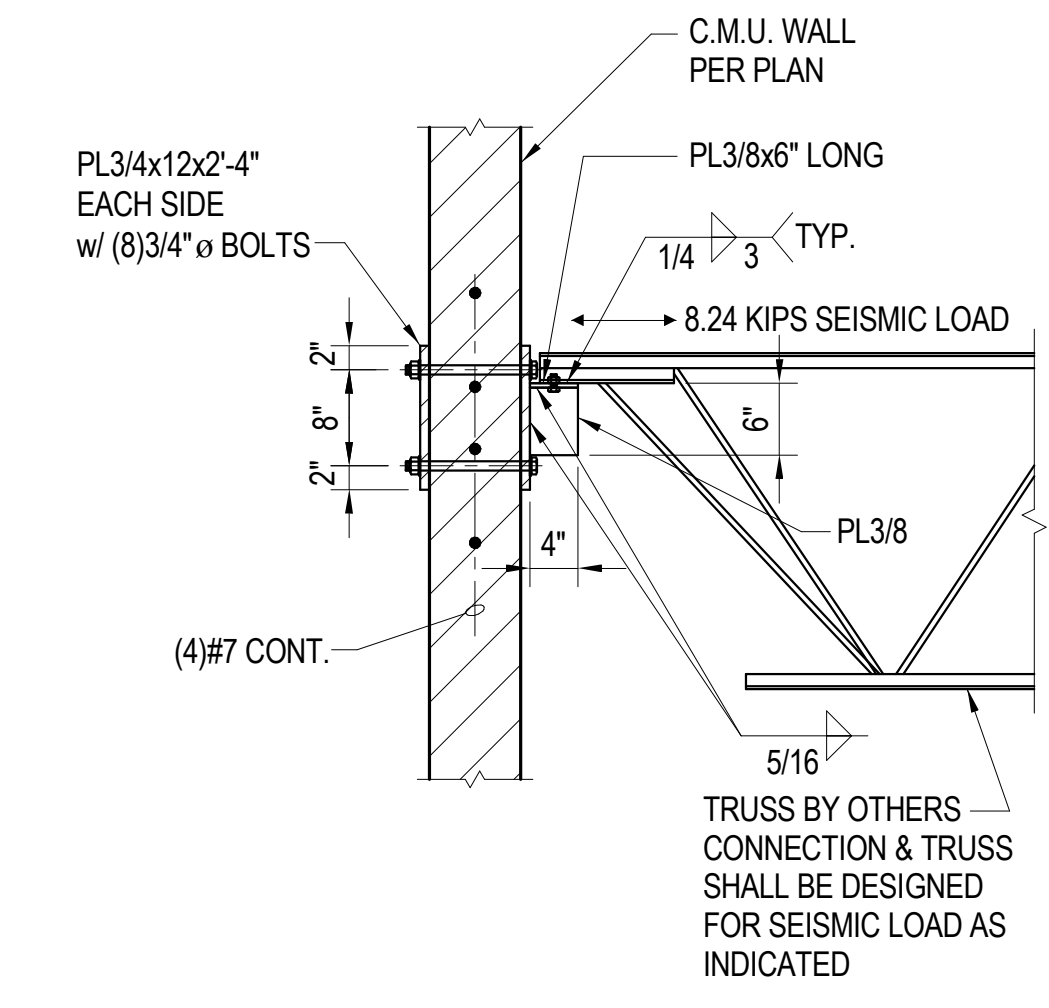
DETAIL 11  
1"=1'-0"



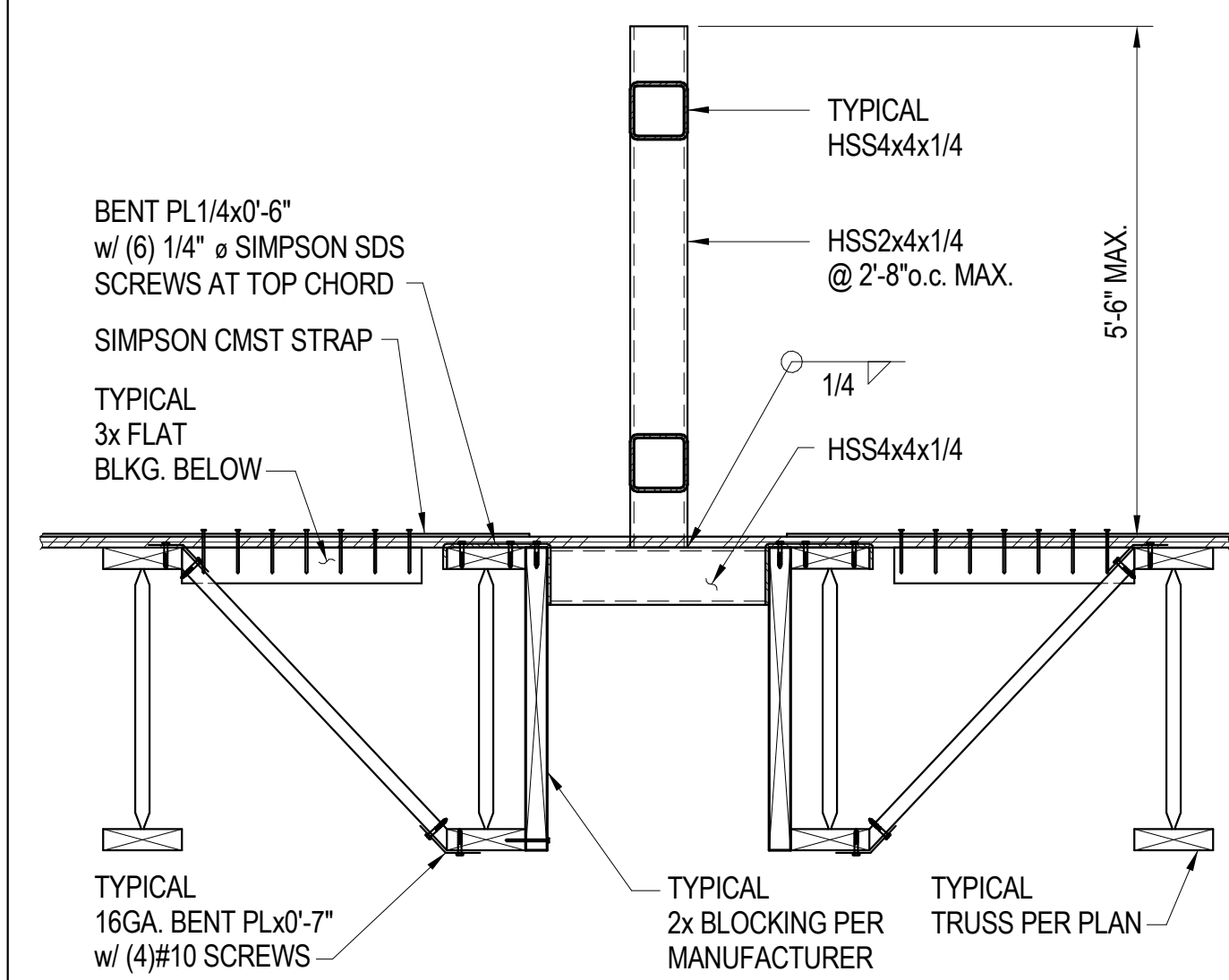
PLAN VIEW  
NOTE: PROVIDE THIS CONNECTION AT BOTH HIGH AND LOW SMF BEAM.  
DETAIL 7  
1"=1'-0"



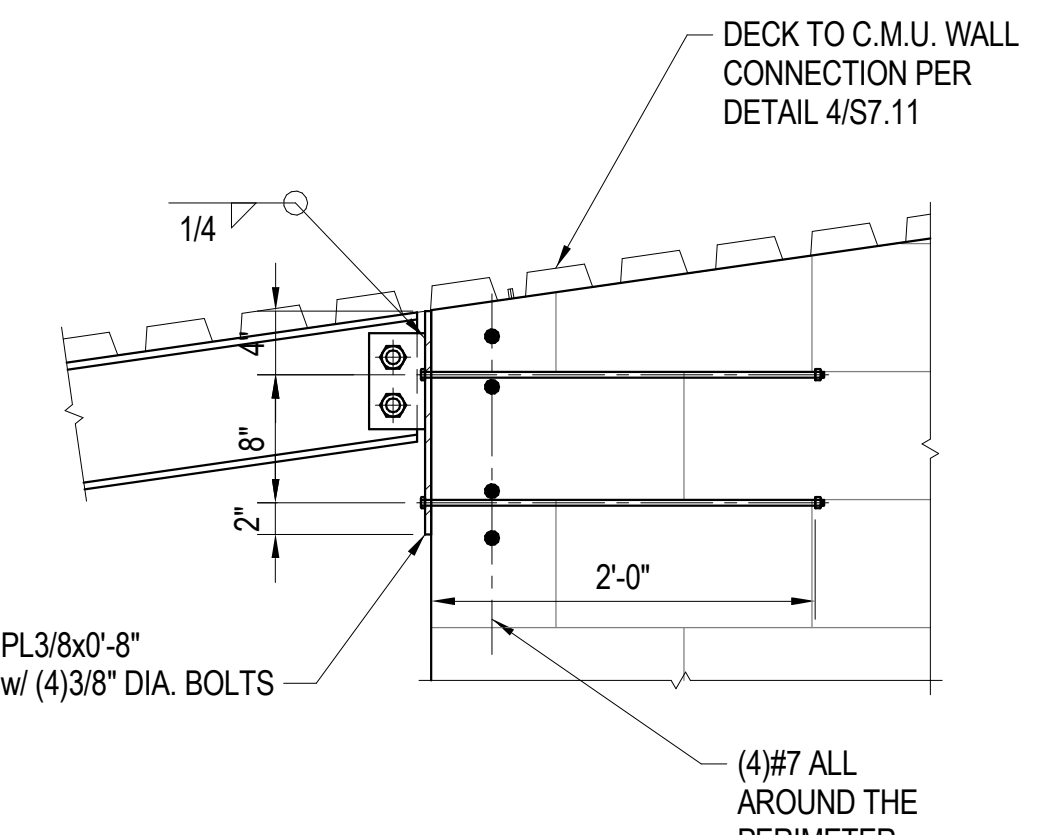
TYPICAL STEEL DECK TO C.M.U. WALL DETAIL  
3/4"=1'-0" 3



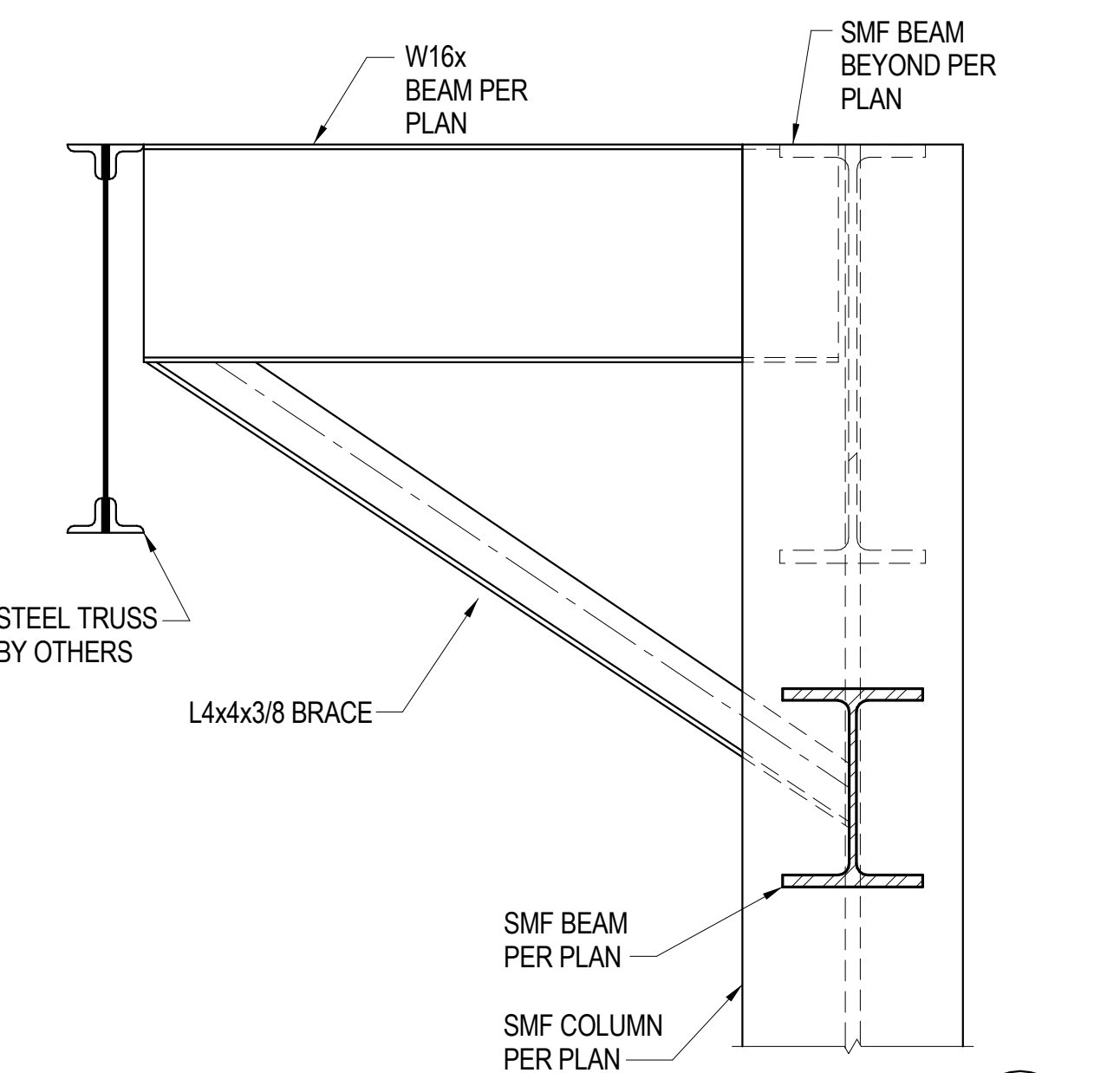
TYPICAL STEEL JOIST TO C.M.U. WALL DETAIL  
3/4"=1'-0" 1



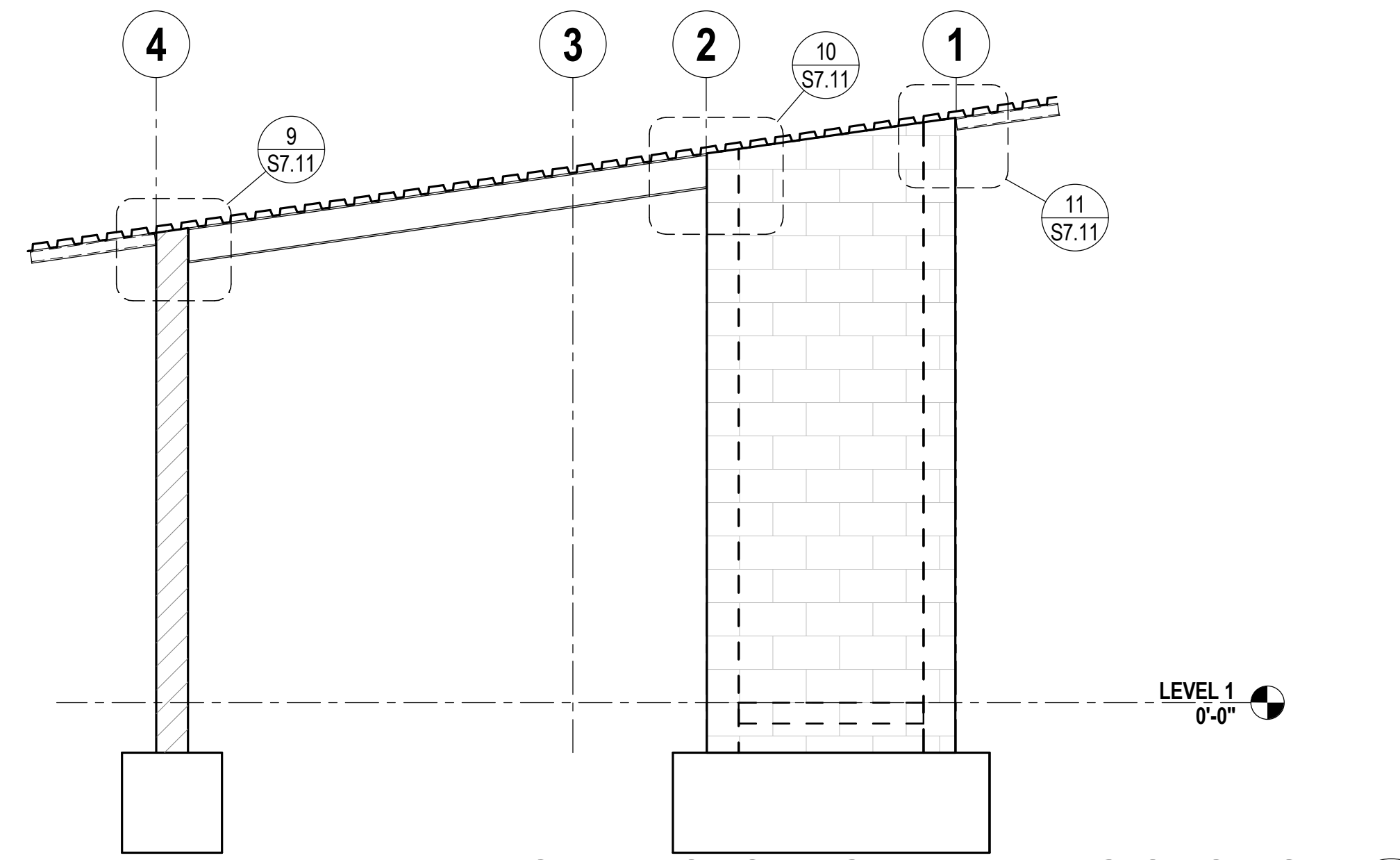
TYPICAL SCREEN WALL PARALLEL TO JOIST AT RETAIL BUILDING DETAIL  
1"=1'-0" 14



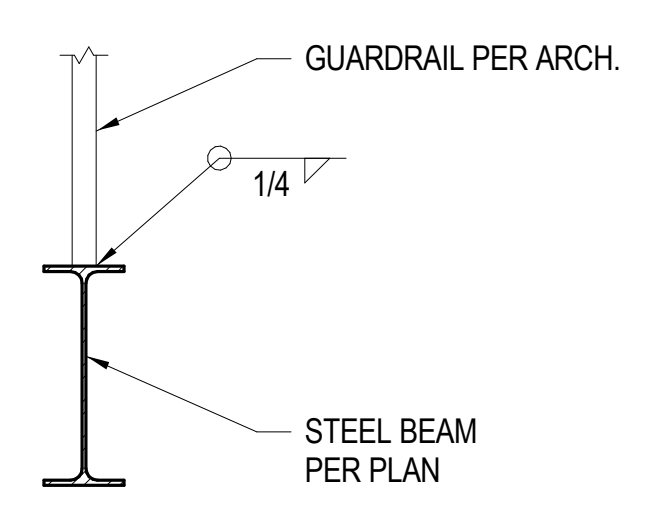
DETAIL 10  
1"=1'-0"



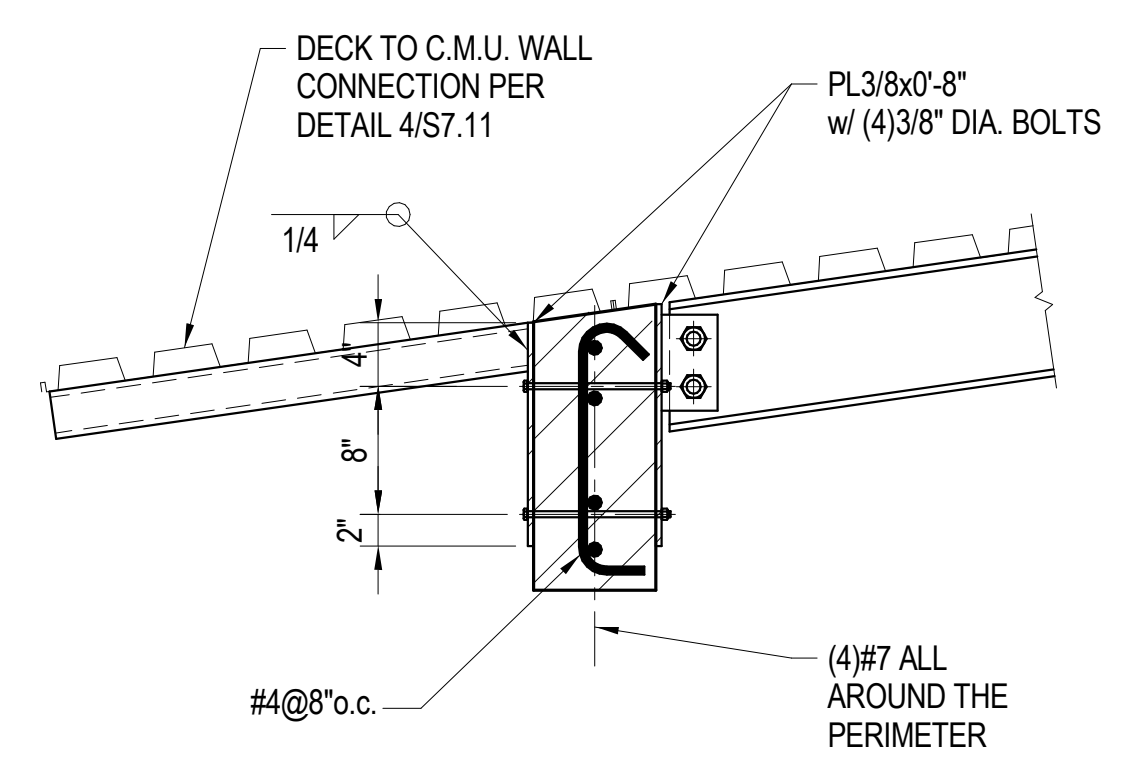
DETAIL 6  
1"=1'-0"



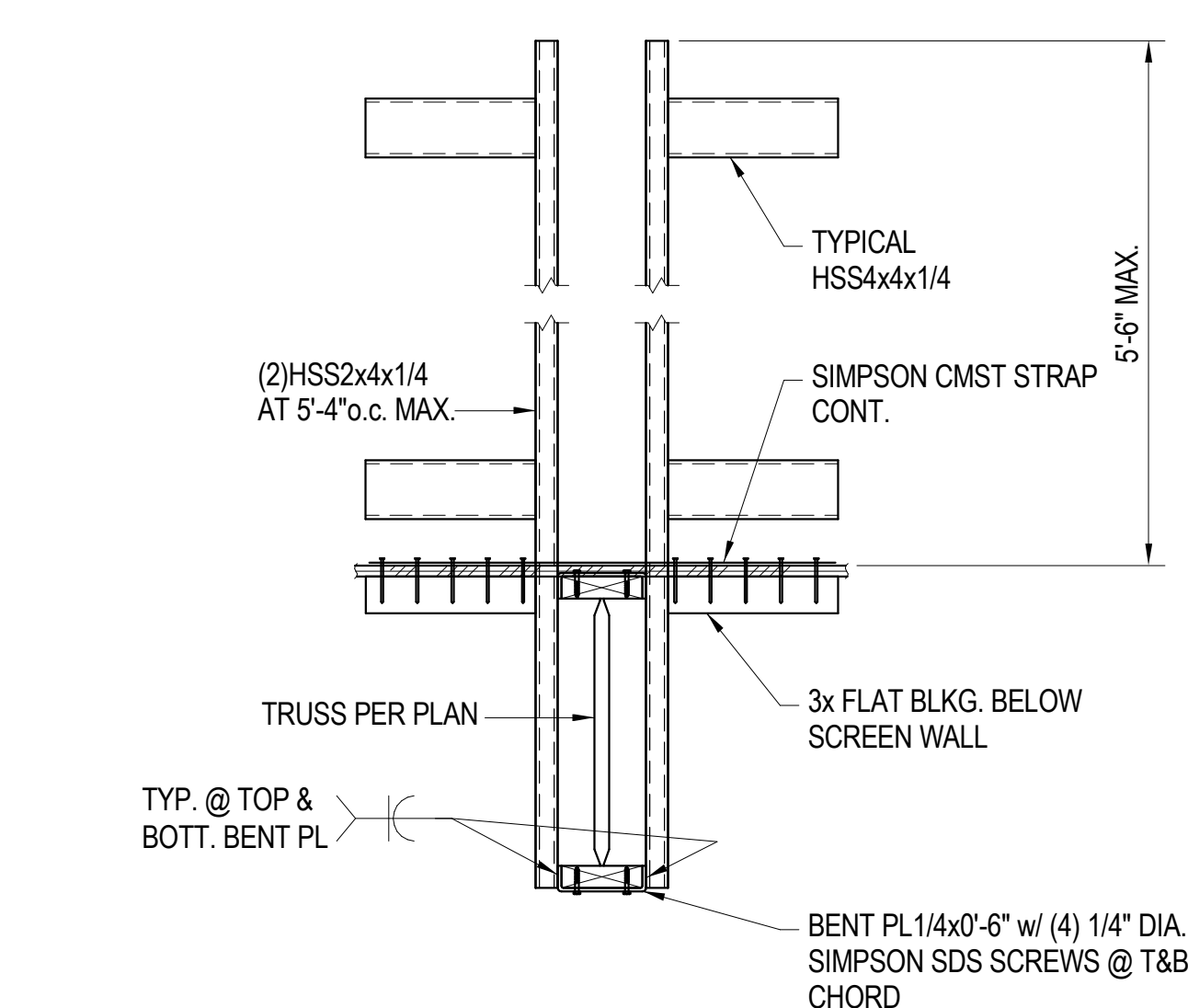
VACUMM STORAGE BUILDING SECTION B  
3/8" = 1'-0"



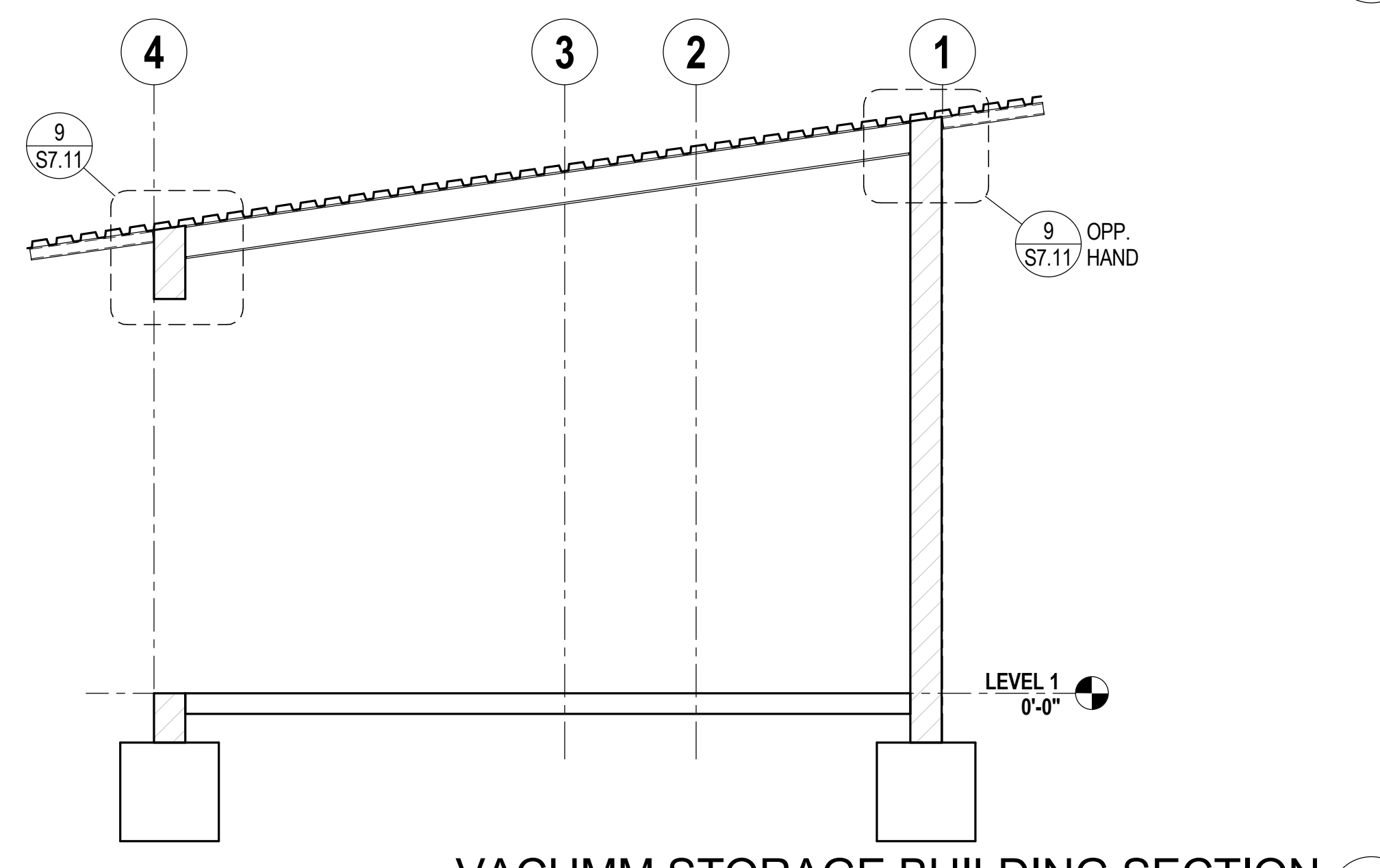
TYPICAL GUARDRAIL AT STEEL BEAM  
1"=1'-0" 13



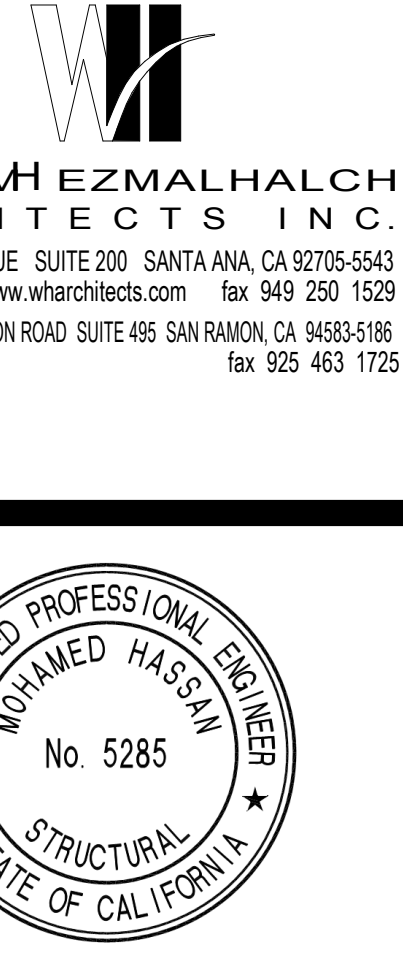
DETAIL 9  
1"=1'-0"



TYPICAL SCREEN WALL PERPENDICULAR TO JOIST AT RETAIL BUILDING DETAIL  
1"=1'-0" 5



VACUMM STORAGE BUILDING SECTION A  
3/8" = 1'-0"



**WILLIAM EZMALHALCH ARCHITECTS INC.**  
2850 REDHILL AVENUE, SUITE 200, SANTA ANA, CA 92705-5943  
949 250 9207 www.whearchitects.com fax 949 250 1529  
6111 BOLLINGER CANYON ROAD, SUITE 405 SAN RAMON, CA 94583-9186  
925 463 1700 fax 925 463 1725

**Englekirk**  
STRUCTURAL ENGINEERS  
3621 Harbor Boulevard  
Suite 125  
Santa Ana, CA  
92704  
714.557.8551 T  
714.557.8551 F  
www.englekirk.com

**SOUTH COAST SPEEDWASH AT THE AUTOBAHN**  
2402 BRISTOL ST. SANTA ANA, CA 92704  
BRISTOL SPEEDWASH, INC.  
10801 NATIONAL BLVD., STE 510 LOS ANGELES, CA. 90064

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REVISIONS

NO.	DATE	DESCRIPTION
1	05/18/17	2ND PLAN CHECK SUBMITTAL
	07/14/17	3RD PLAN CHECK SUBMITTAL

SECTIONS AND DETAILS

SHEET SCALE:	As Indicated
PROJECT MANAGER:	MH
DESIGNER:	JN
DRAWN BY:	FS
REVIEWED BY:	
1st DEPT. SUBMITTAL:	XX/2016
ISSUED FOR CONST.:	
JOB NUMBER:	16-5003
CAD FILE NAME:	

S7.11

2ND BUILDING PLAN CHECK COORDINATION 05.18.2017