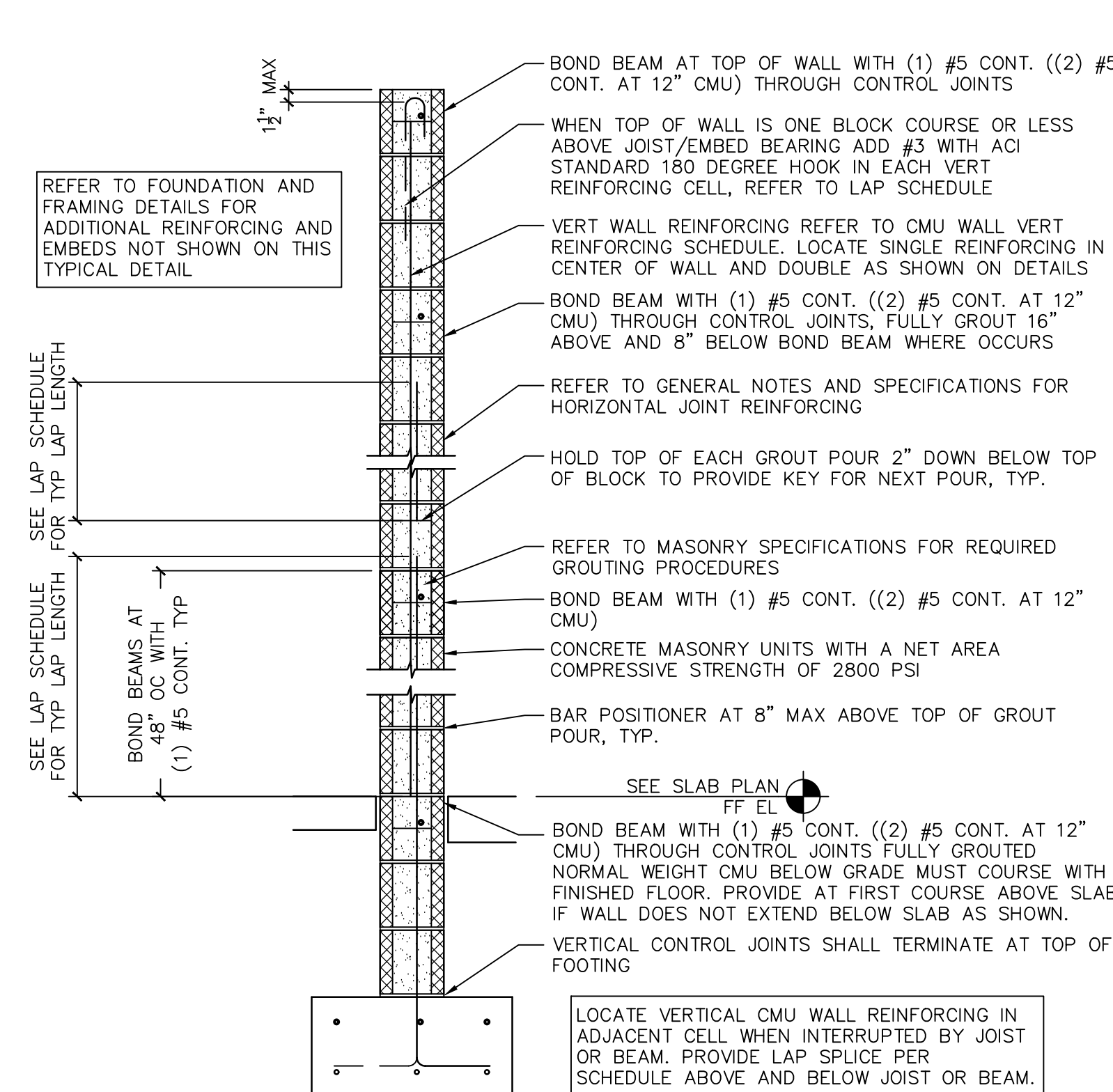
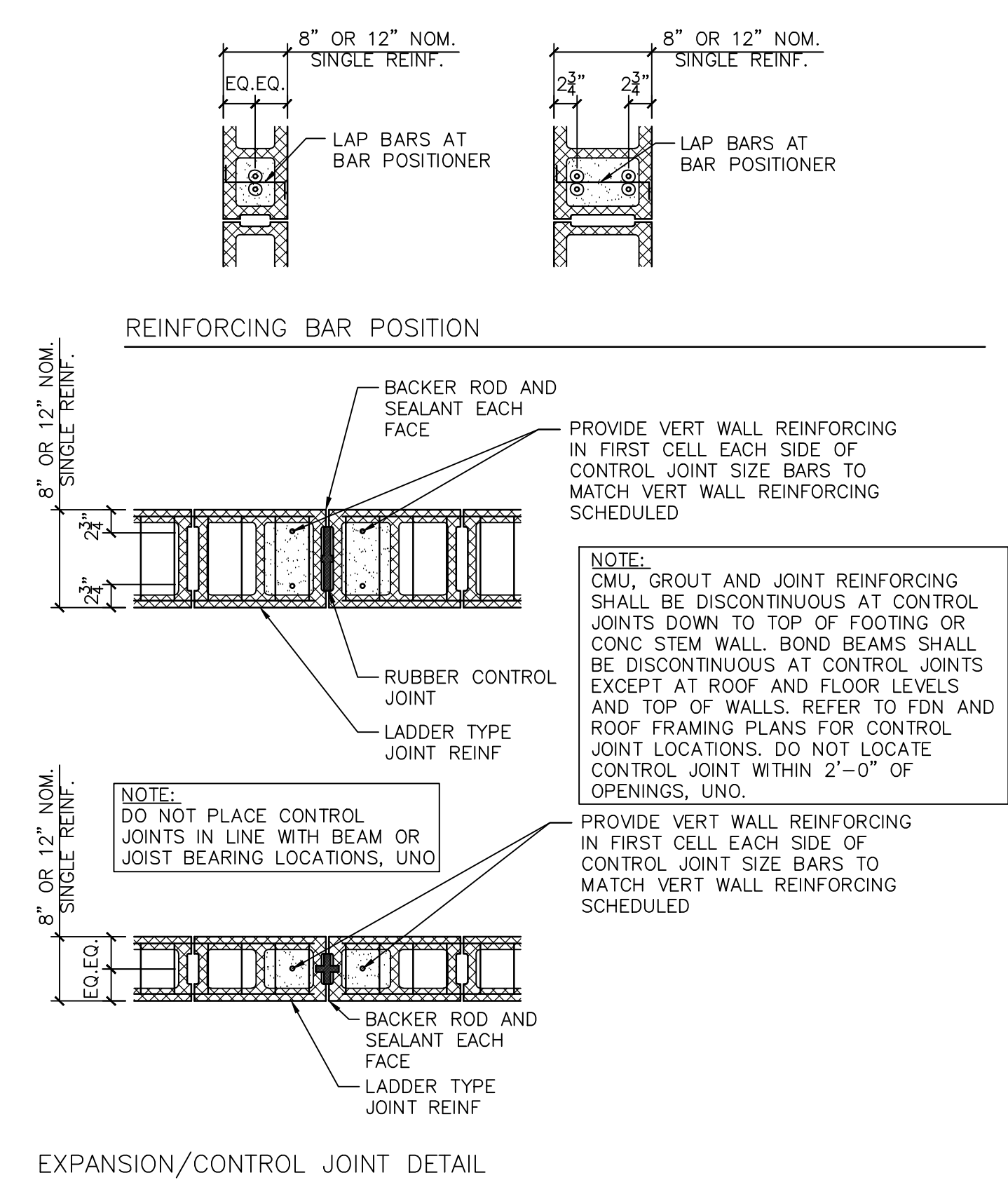
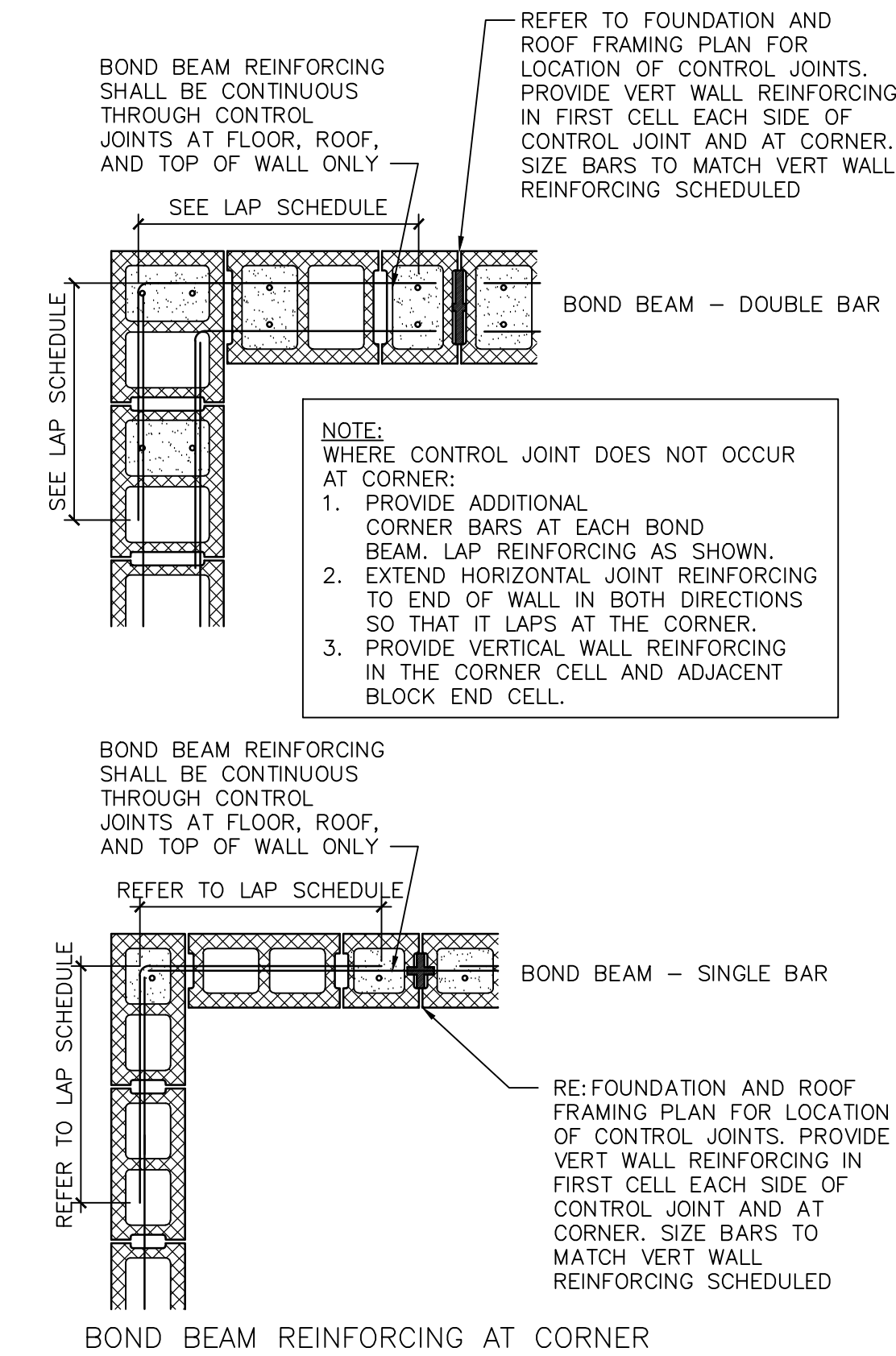


ZONE	EFFECTIVE WIND AREA (SF)	PRESSURE (PSF)	
		POSITIVE	NEGATIVE
ROOF	10	+9.6	-23.1
	20	+9.6	-22.5
	50	+9.6	-21.7
	100	+9.6	-21.2
WALLS	10	+9.6	-38.8
	20	+9.6	-34.6
	50	+9.6	-29.2
	100	+9.6	-25.1
WALLS	10	+9.6	-38.8
	20	+9.6	-34.6
	50	+9.6	-29.2
	100	+9.6	-25.1
WALLS	10	+21.2	-22.9
	20	+20.2	-22.0
	50	+19.0	-20.7
	100	+18.0	-19.8
WALLS	10	+21.2	-28.2
	20	+20.2	-26.3
	50	+19.0	-23.9
	100	+18.0	-22.0

F1 COMPONENTS AND CLADDING WIND DIAGRAM 1/8" = 1'-0"



F7 TYPICAL CMU WALL REINFORCING DIAGRAM AND DETAILS 3/4" = 1'-0"



Revisions:	Date:
ADDENDUM 1	08-09-24

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STATE OF KENTUCKY

DAVID R. WALTON
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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title

GENERAL STRUCTURAL DETAILS

Approved: Project Director

Phase

100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title

DESIGN REPLACE BOILER PLANT

Location

SIoux FALLS VAMC
SIoux FALLS, SD 57105

Issue Date

08-09-2024

Checked

TWW

Drawn

DRW

Project Number

438-22-900

Building Number

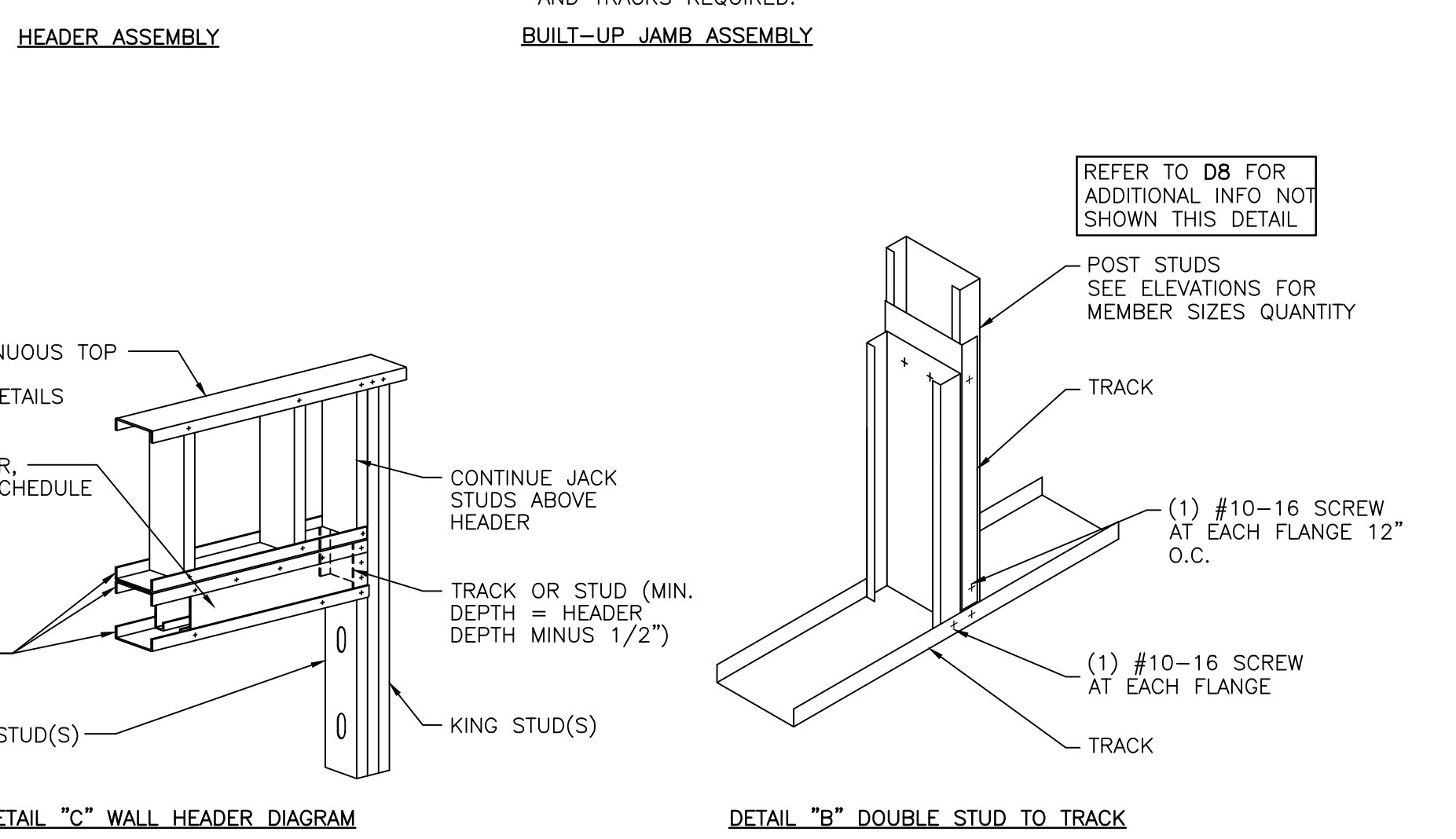
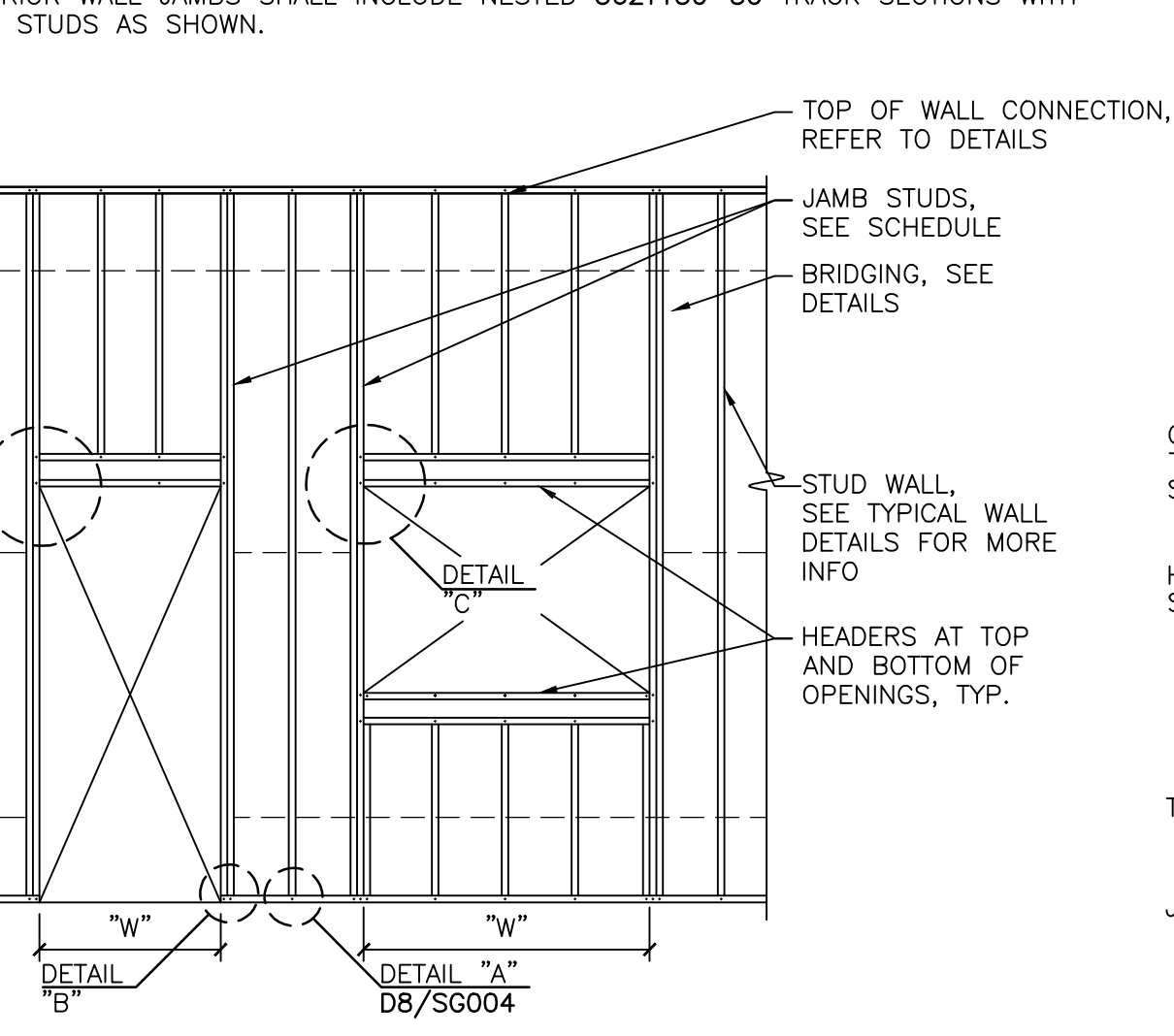
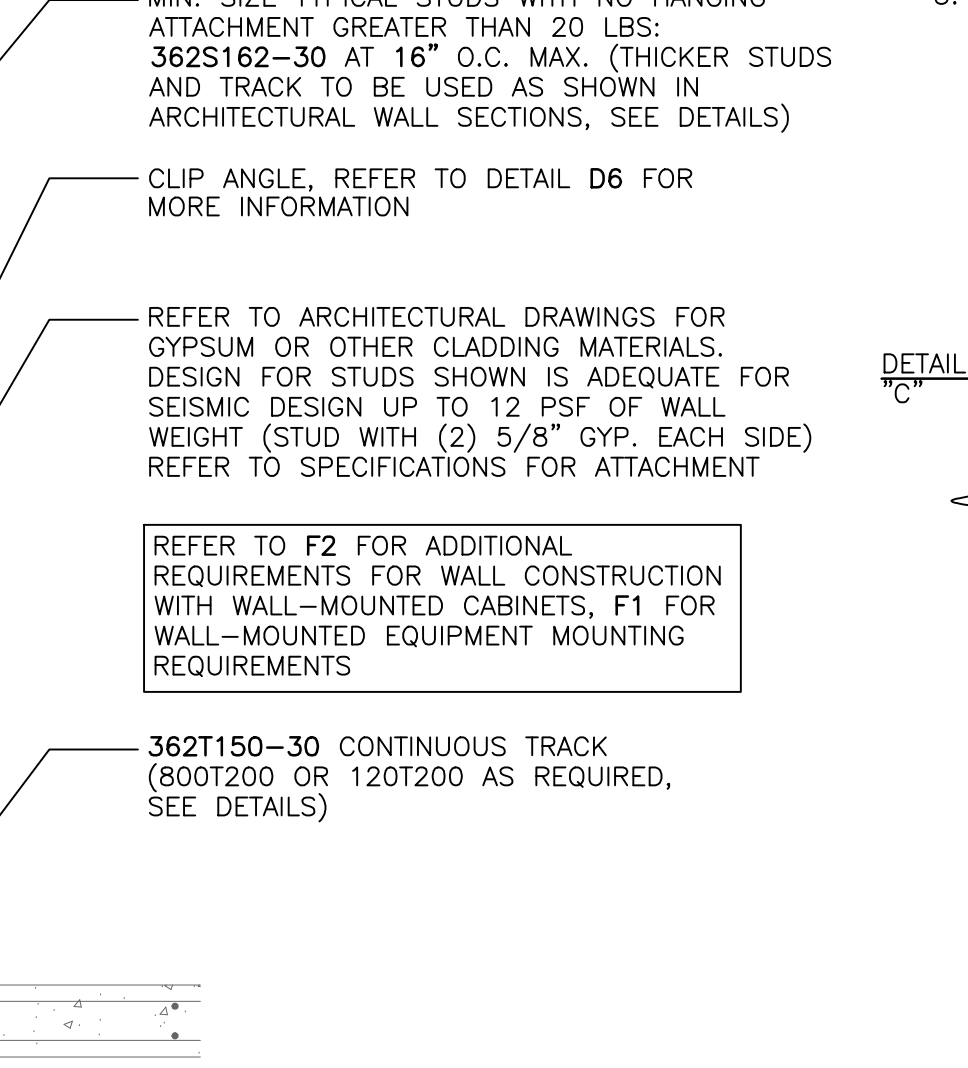
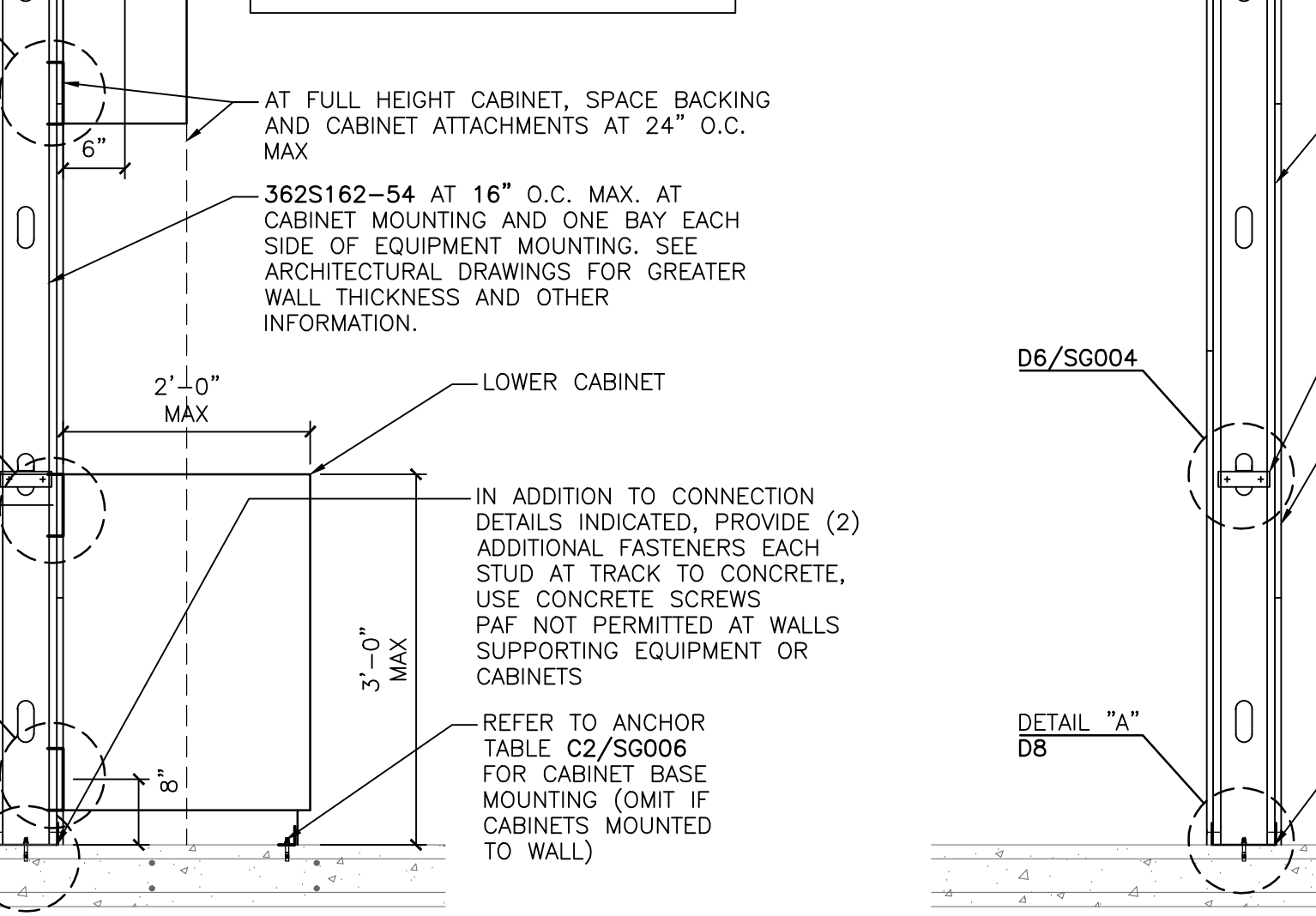
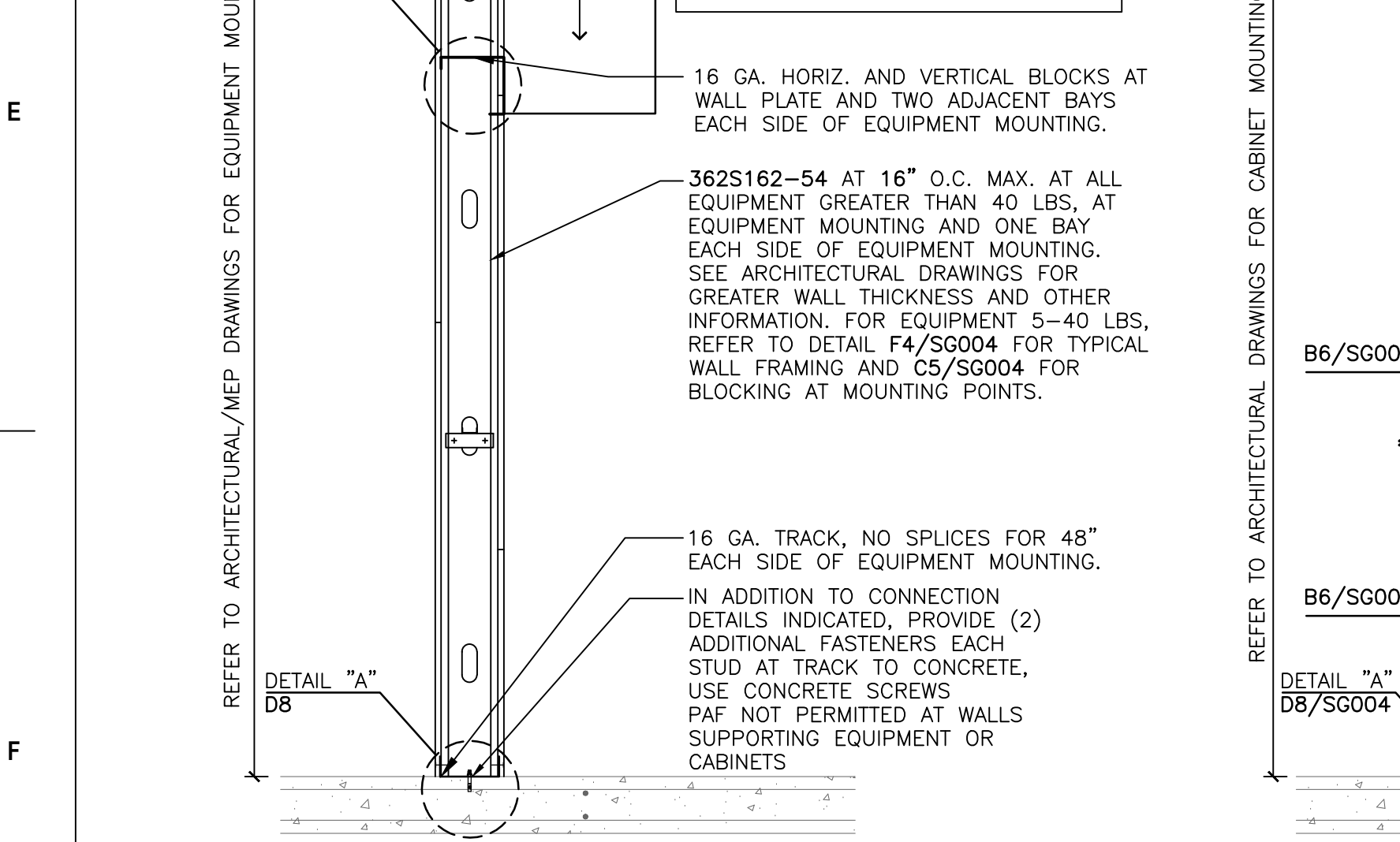
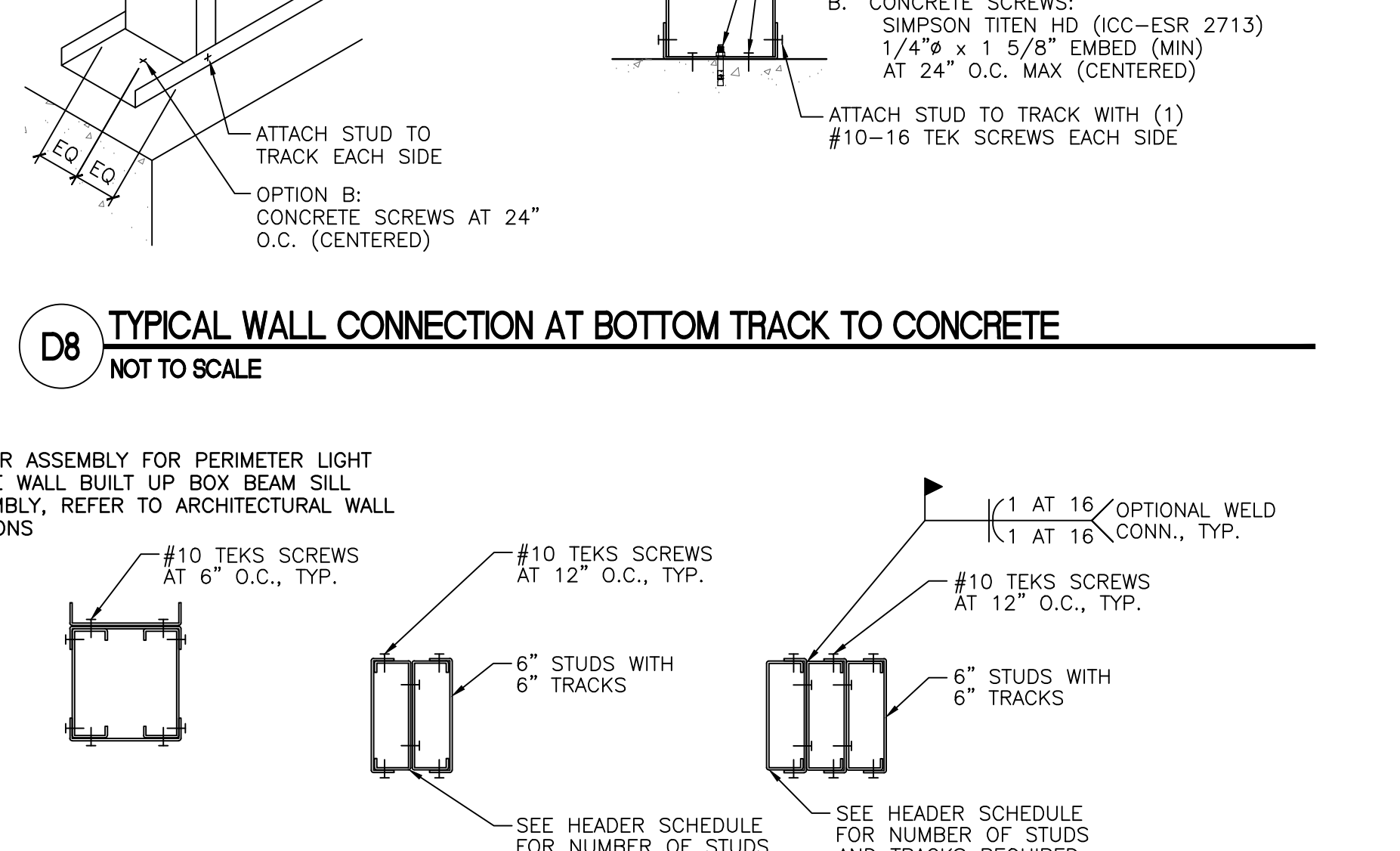
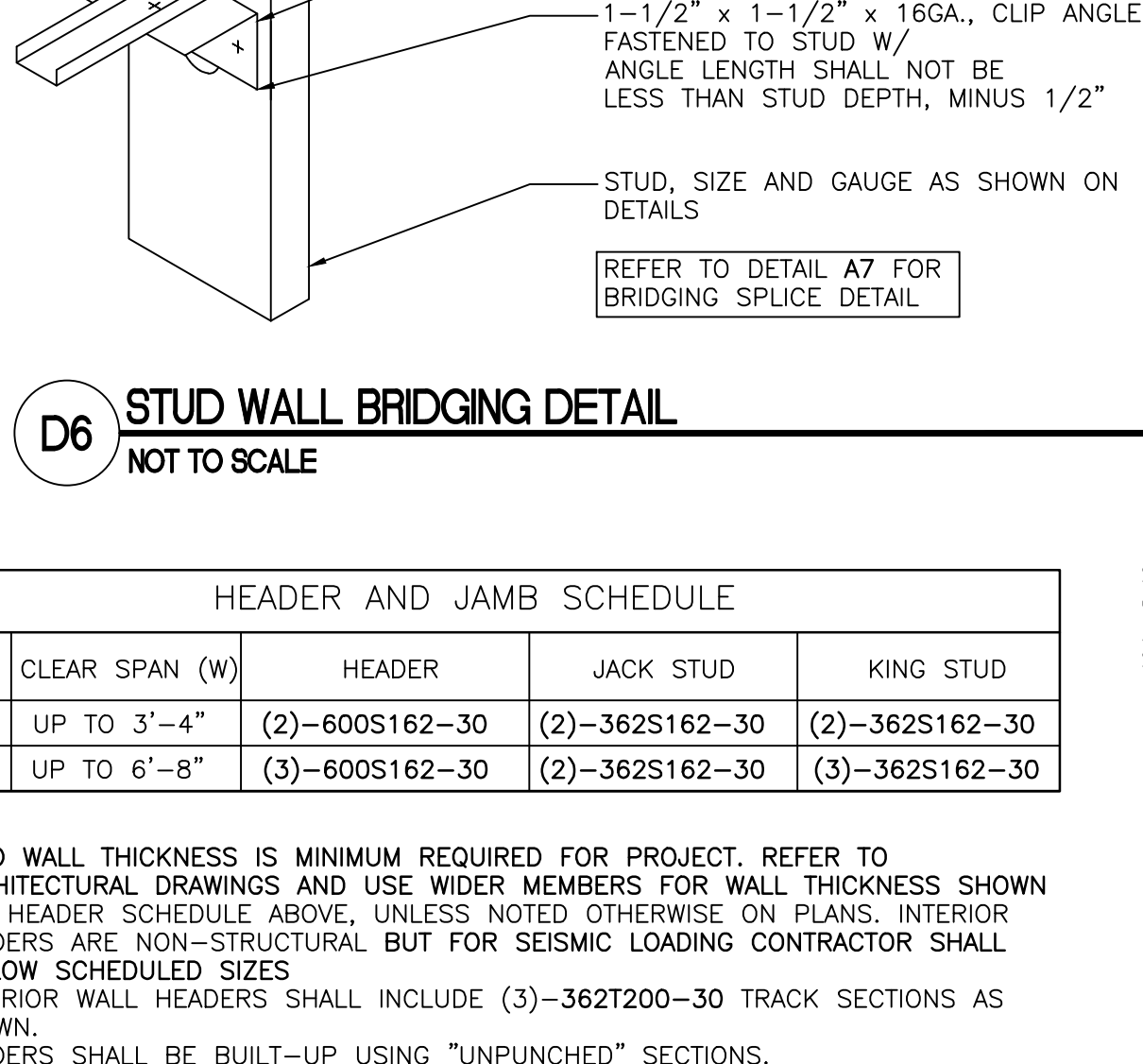
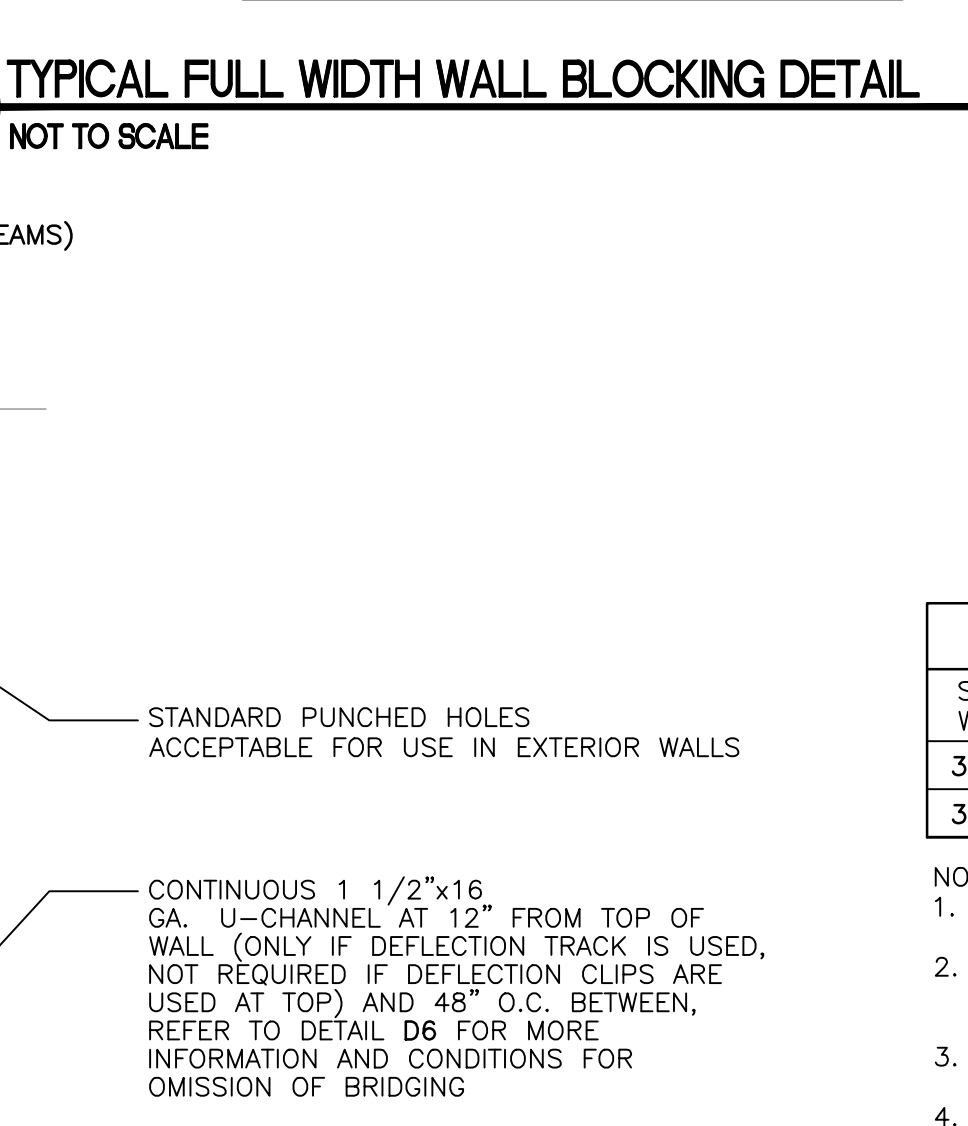
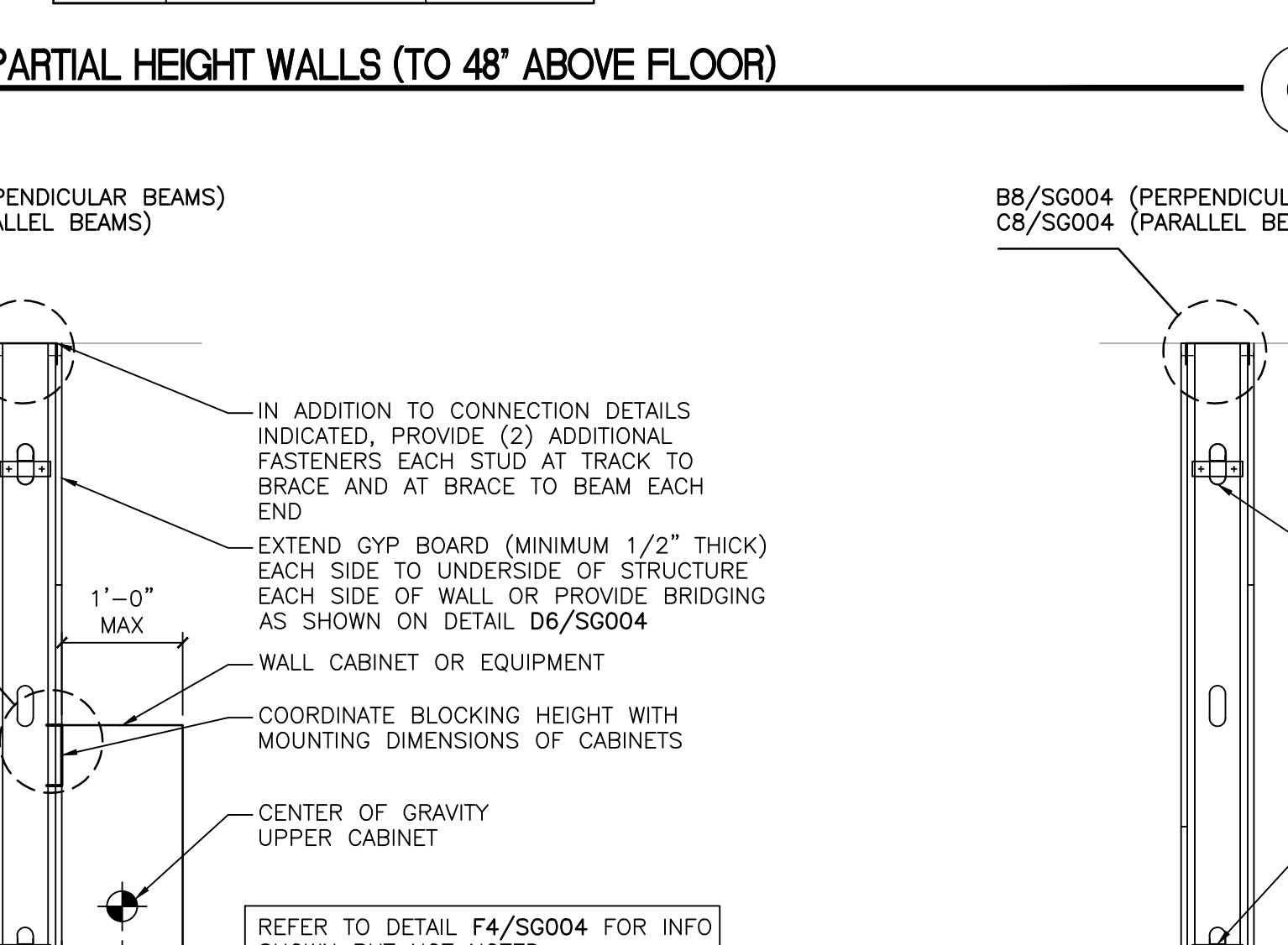
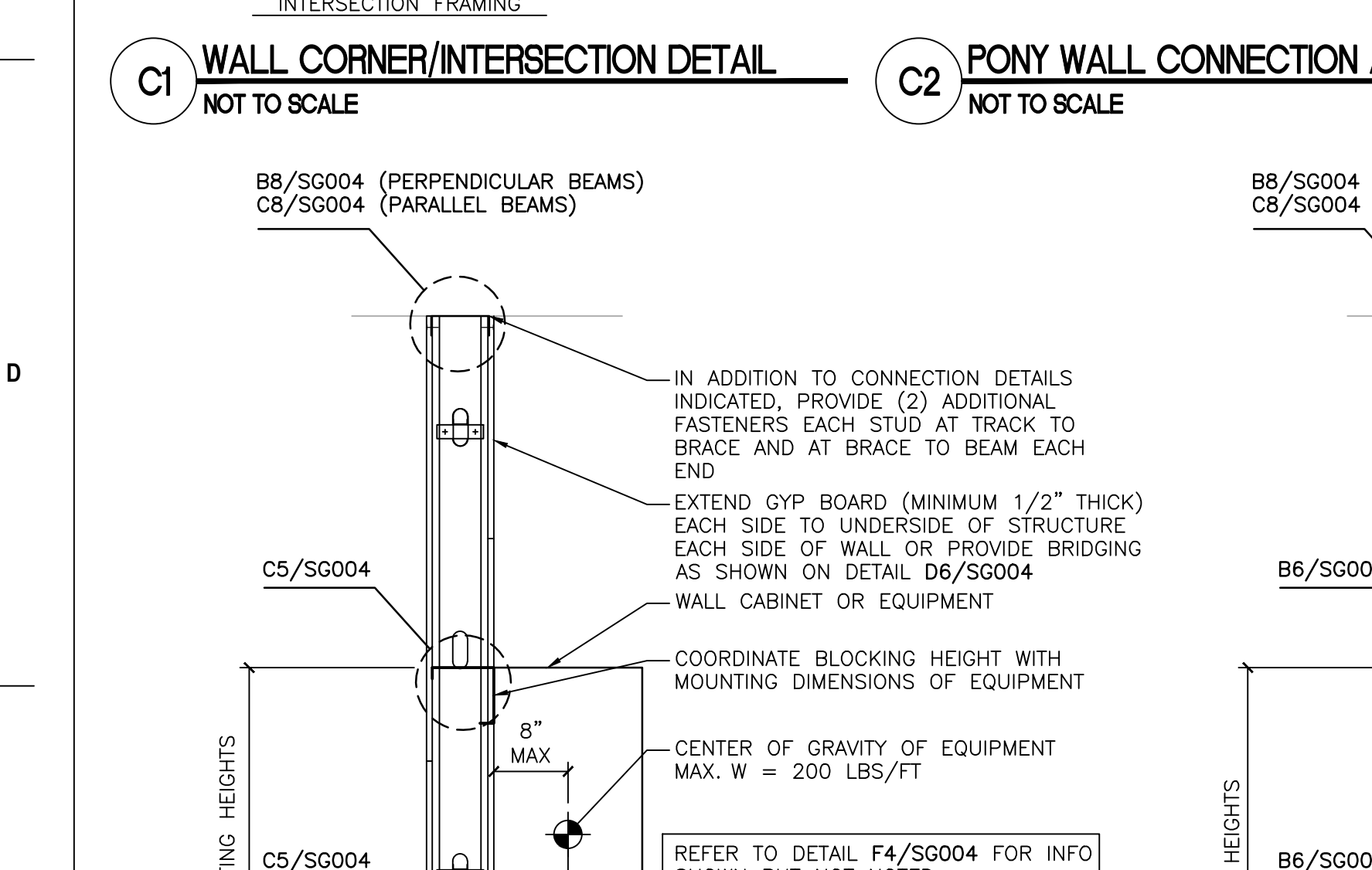
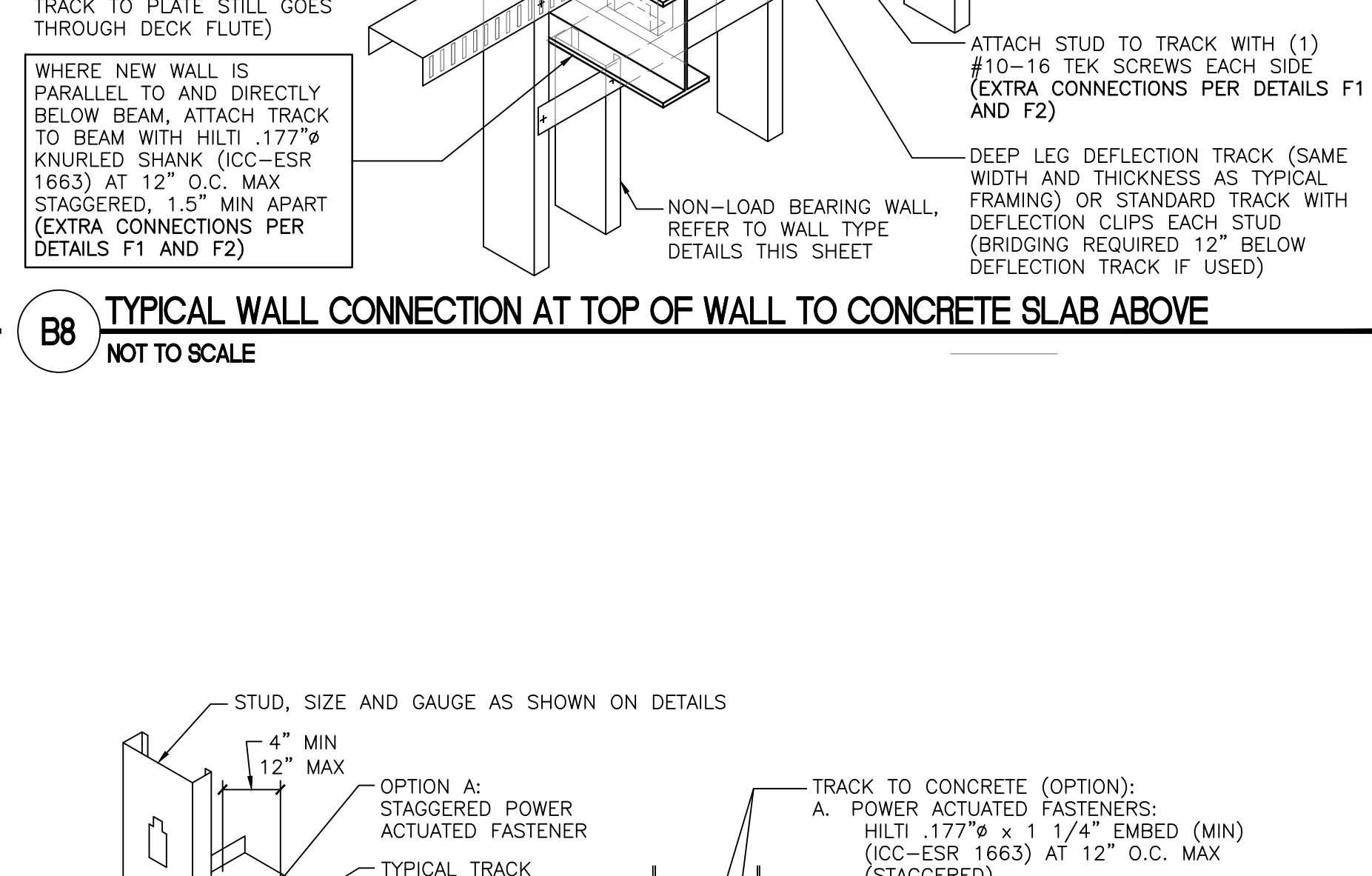
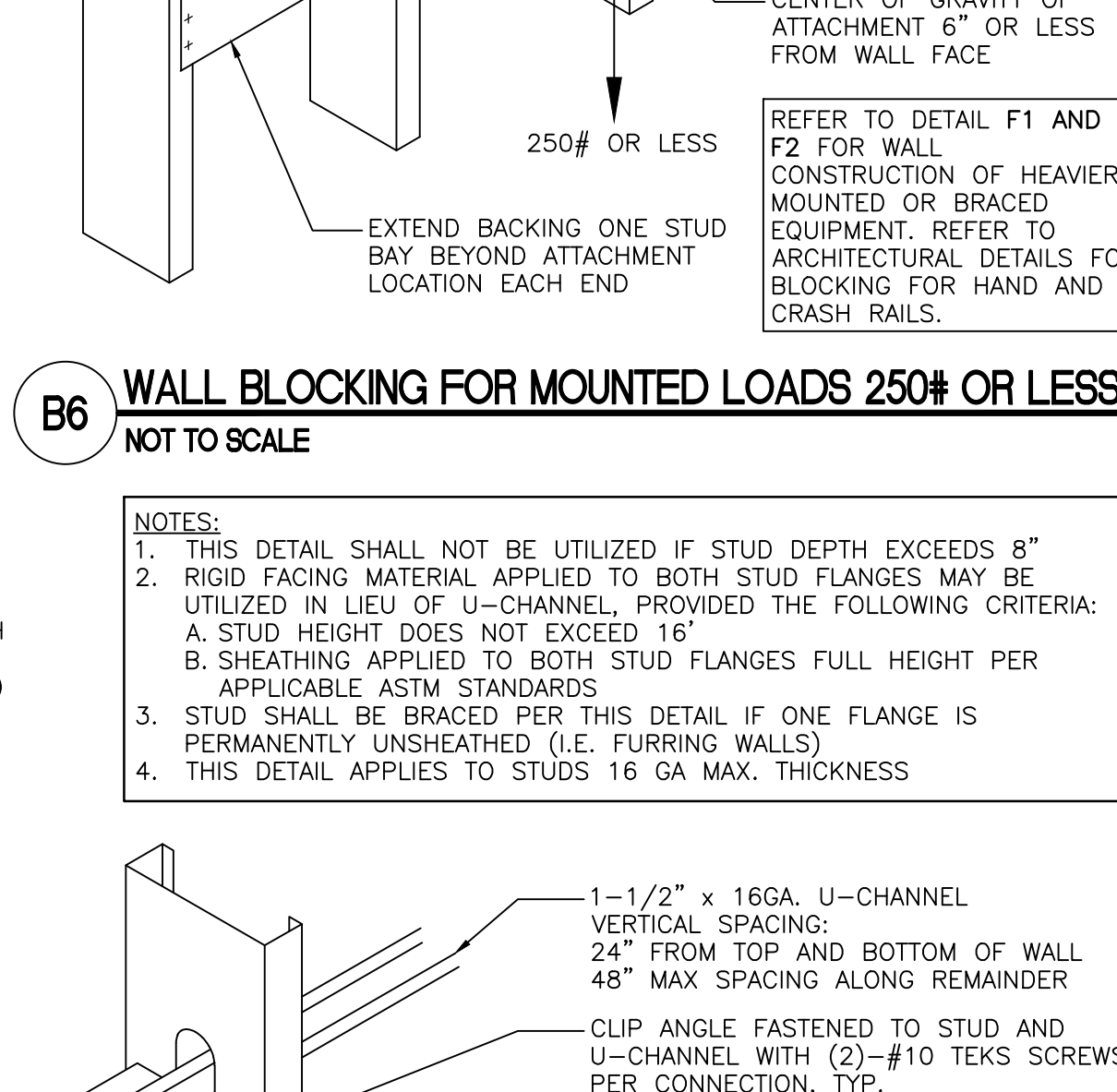
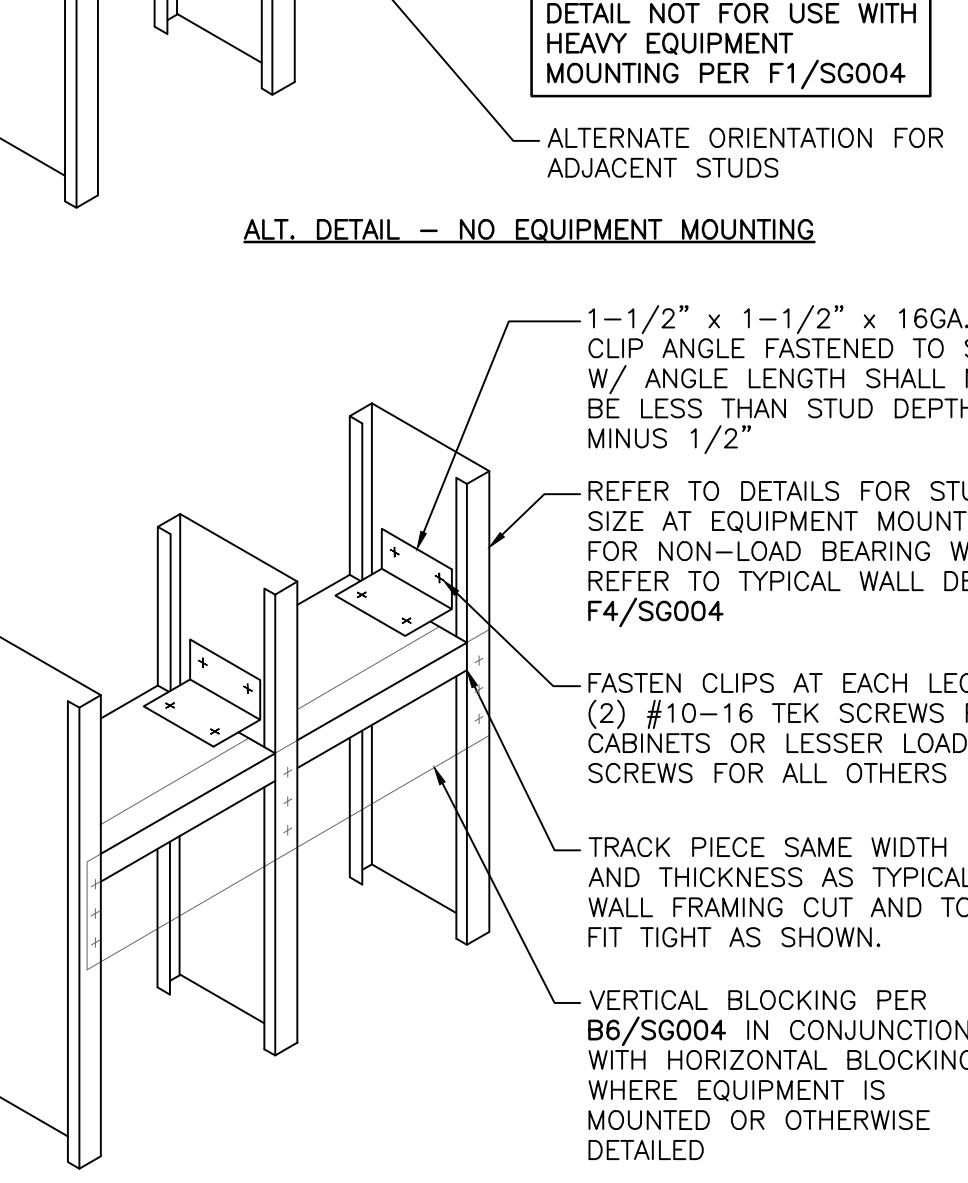
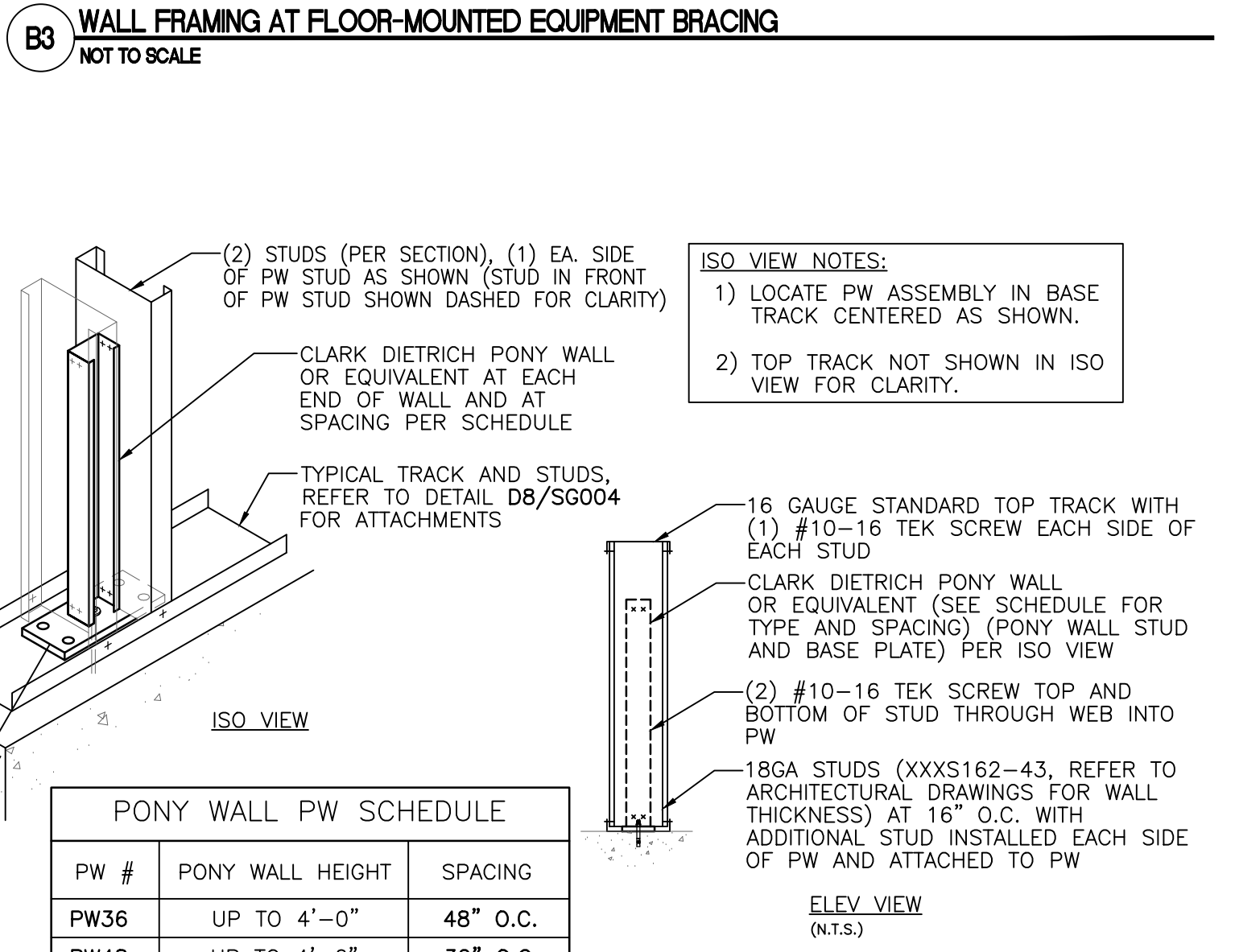
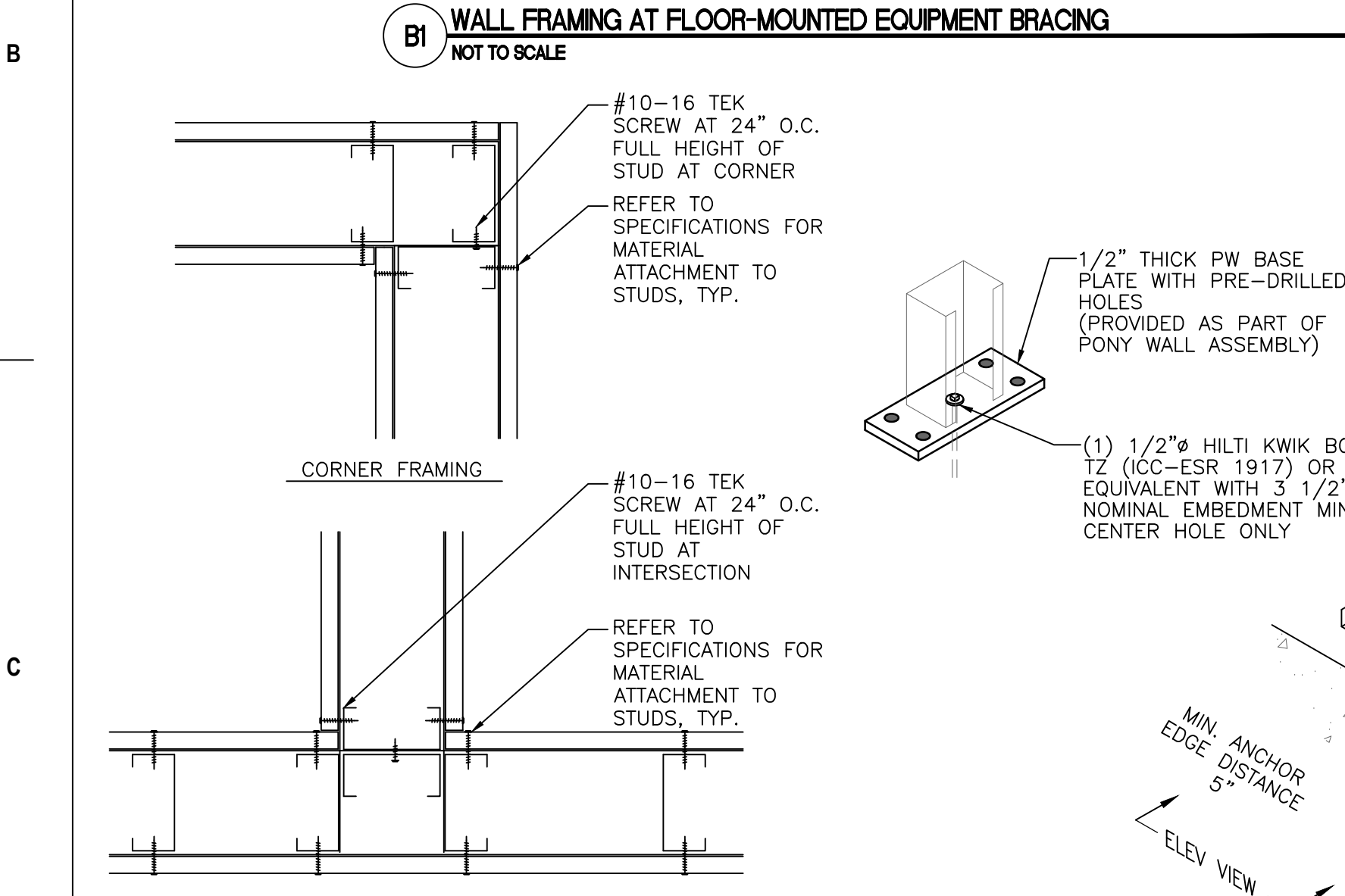
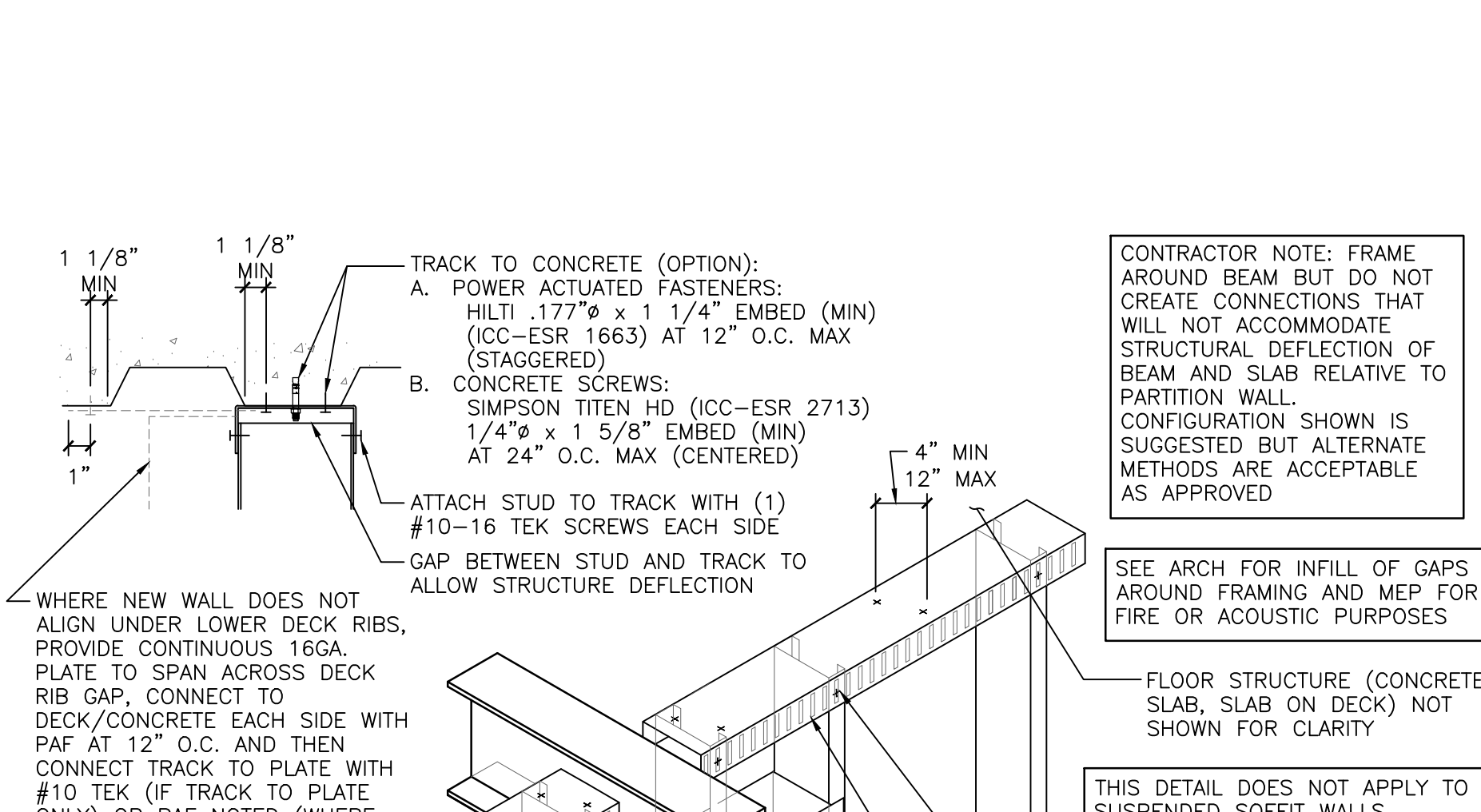
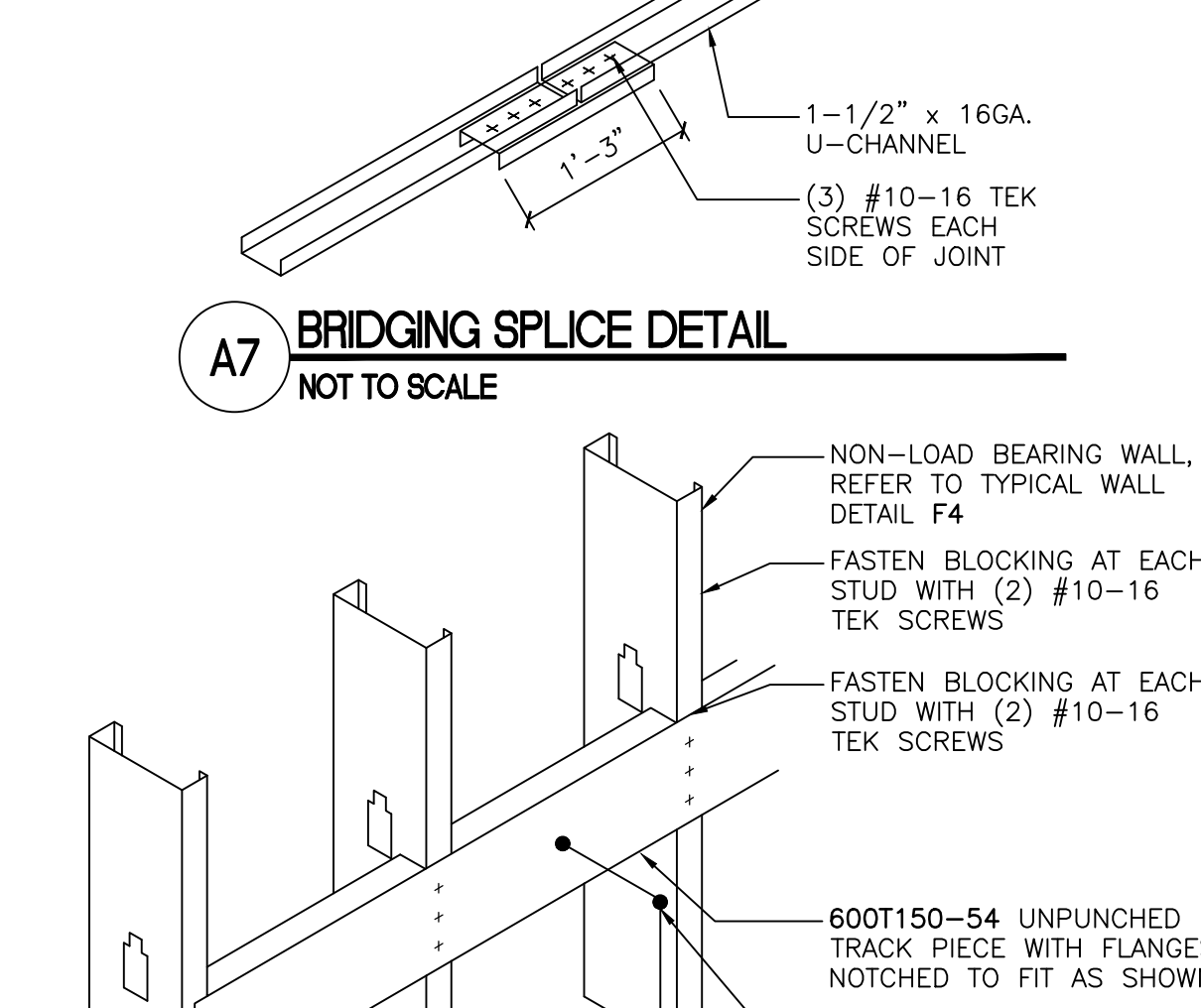
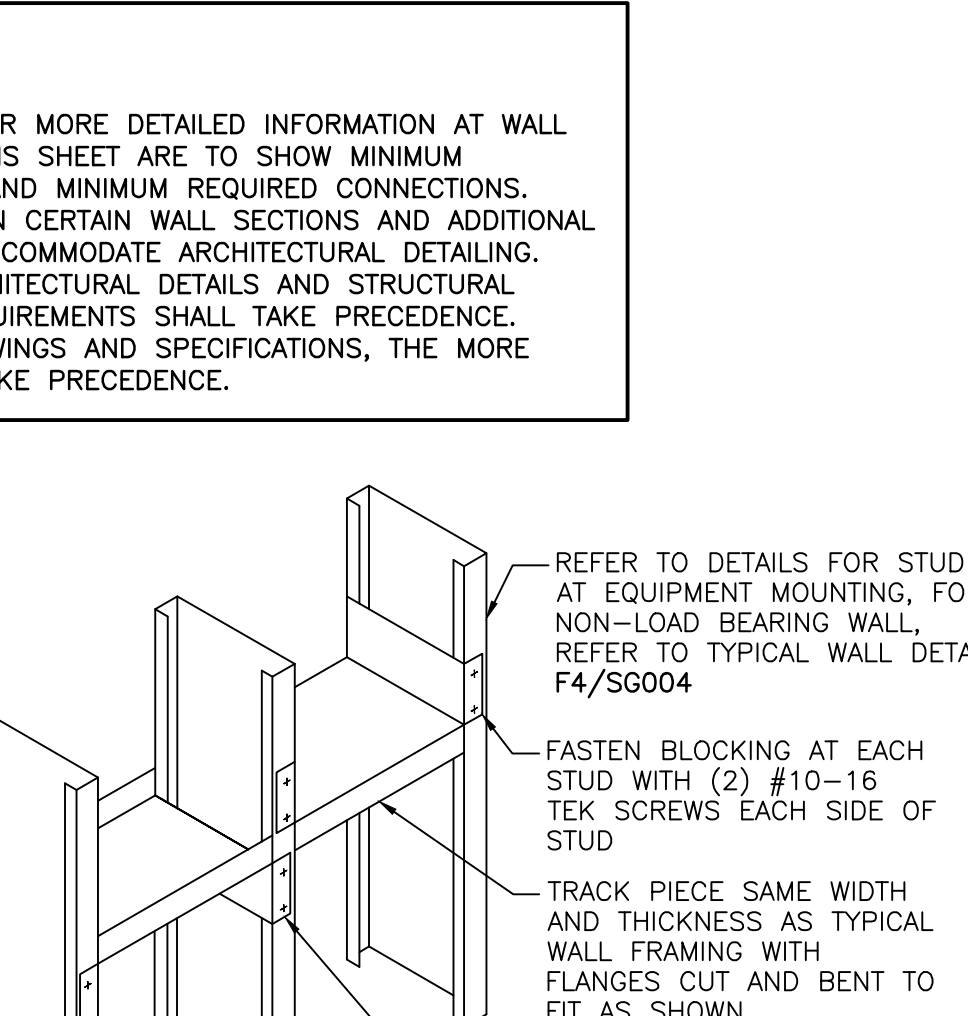
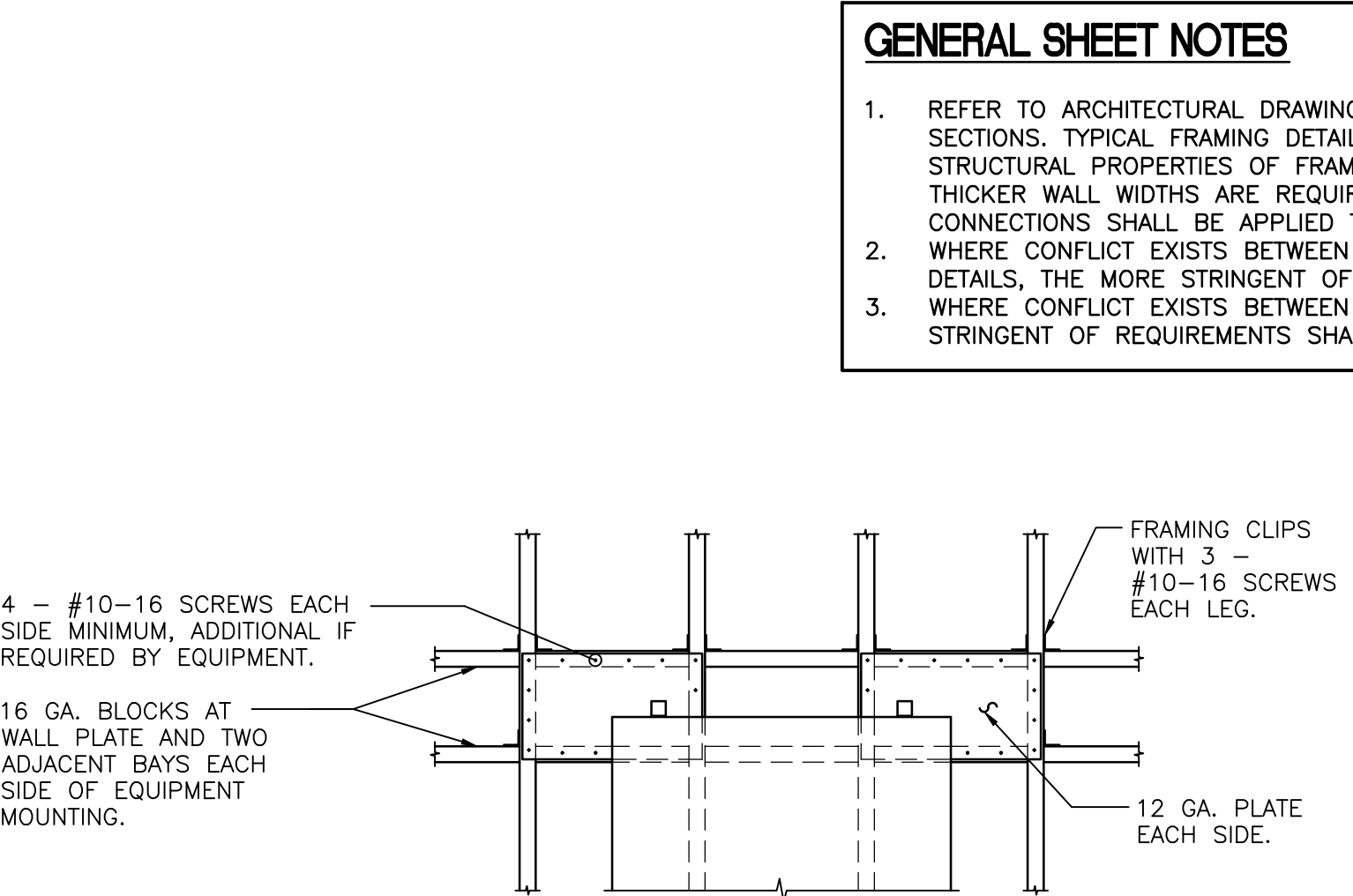
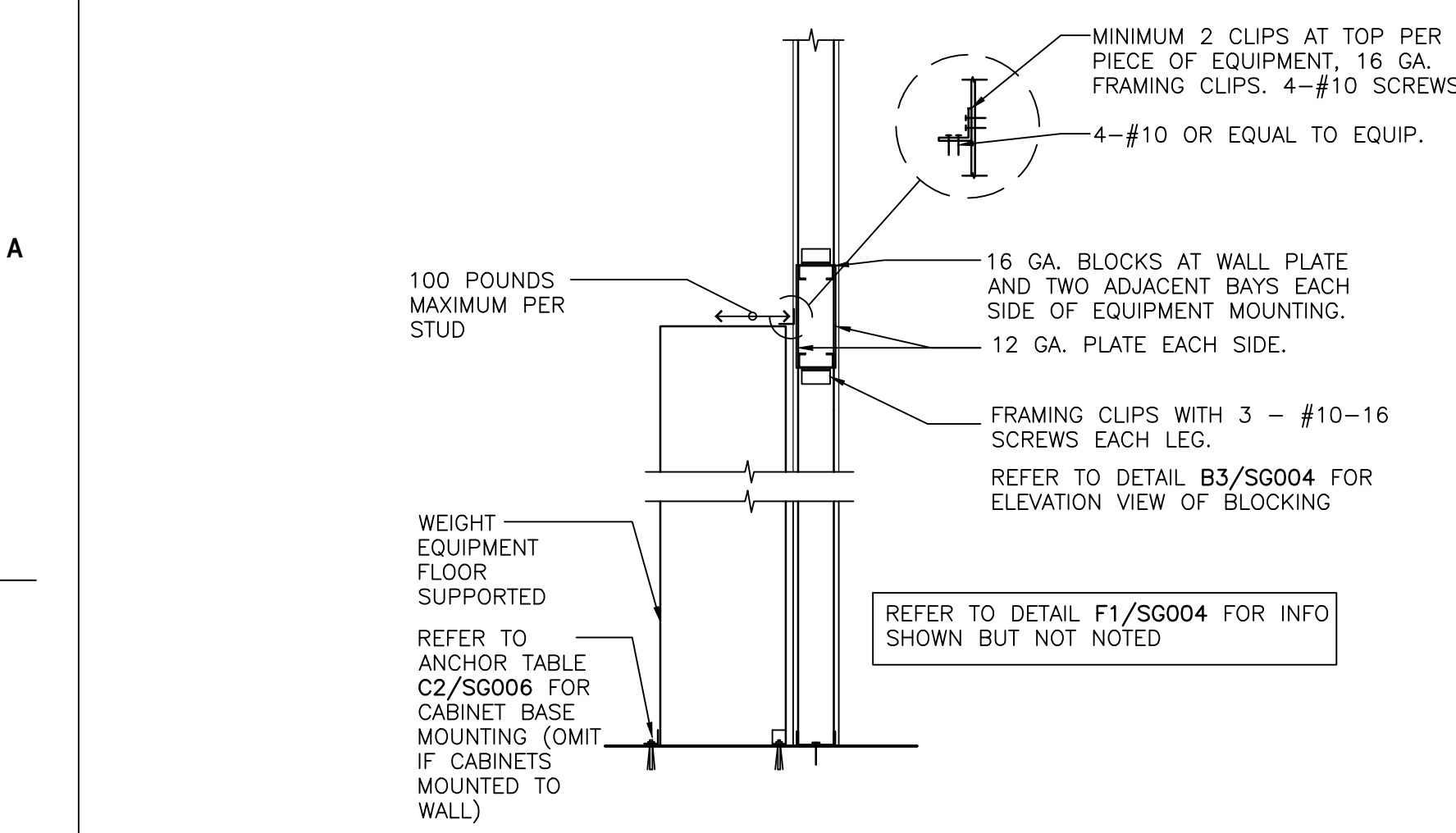
12

Drawing Number

SG003

GENERAL SHEET NOTES

- REFER TO ARCHITECTURAL DRAWINGS FOR MORE DETAILED INFORMATION AT WALL SECTIONS. TYPICAL FRAMING DETAILS THIS SHEET ARE TO SHOW MINIMUM STRUCTURAL PROPERTIES OF FRAMING AND MINIMUM REQUIRED CONNECTIONS. THICKER WALL WIDTHS ARE REQUIRED IN CERTAIN WALL SECTIONS AND ADDITIONAL CONNECTIONS SHALL BE APPLIED TO ACCOMMODATE ARCHITECTURAL DETAILING.
- WHERE CONFLICT EXISTS BETWEEN ARCHITECTURAL DETAILS AND STRUCTURAL DETAILS, THE MORE STRINGENT OF REQUIREMENTS SHALL TAKE PRECEDENCE.
- WHERE CONFLICT EXISTS BETWEEN DRAWINGS AND SPECIFICATIONS, THE MORE STRINGENT OF REQUIREMENTS SHALL TAKE PRECEDENCE.



ISO VIEW NOTES:

- LOCATE PW ASSEMBLY IN BASE TRACK CENTERED AS SHOWN.
- TOP TRACK NOT SHOWN IN ISO VIEW FOR CLARITY.

PONY WALL PW SCHEDULE

PW #	PONY WALL HEIGHT	SPACING
PW36	UP TO 4'-0"	48" O.C.
PW48	UP TO 4'-6"	32" O.C.

HEADER AND JAMB SCHEDULE

STUD WIDTH	CLEAR SPAN (W)	HEADER	JACK STUD	KING STUD
3.625"	UP TO 3'-4"	(2)-600S162-30	(2)-362S162-30	(2)-362S162-30
3.625"	UP TO 6'-8"	(3)-600S162-30	(2)-362S162-30	(3)-362S162-30

NOTES:

- STUD WALL THICKNESS IS MINIMUM REQUIRED FOR PROJECT. REFER TO ARCHITECTURAL DRAWINGS AND USE WIDER MEMBERS FOR WALL THICKNESS SHOWN IN HEADER SCHEDULE ABOVE, UNLESS NOTED OTHERWISE ON PLANS. INTERIOR HEADERS ARE NON-STRUCTURAL BUT FOR SEISMIC LOADING CONTRACTOR SHALL FOLLOW SCHEDULED SIZES.
- EXTERIOR WALL HEADERS SHALL INCLUDE (3)-362T200-30 TRACK SECTIONS AS SHOWN.
- HEADERS SHALL BE BUILT-UP USING "UNPUNCHED" SECTIONS.
- EXTERIOR WALL JAMBS SHALL INCLUDE NESTED 362T150-30 TRACK SECTIONS WITH KING STUDS AS SHOWN.

ADDENDUM 1 08-09-24

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Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title: LIGHT GAUGE FRAMING DETAILS

Phase: 100% CONSTRUCTION DOCUMENTS

Project Title: DESIGN REPLACE BOILER PLANT

Location: SIOUX FALLS VAMC SIOUX FALLS, SD 57105

Issue Date: 08-09-2024

Checked: TWW

Drawn: DFV

Project Number: 438-22-900

Building Number: 12

Drawing Number: SG004

A

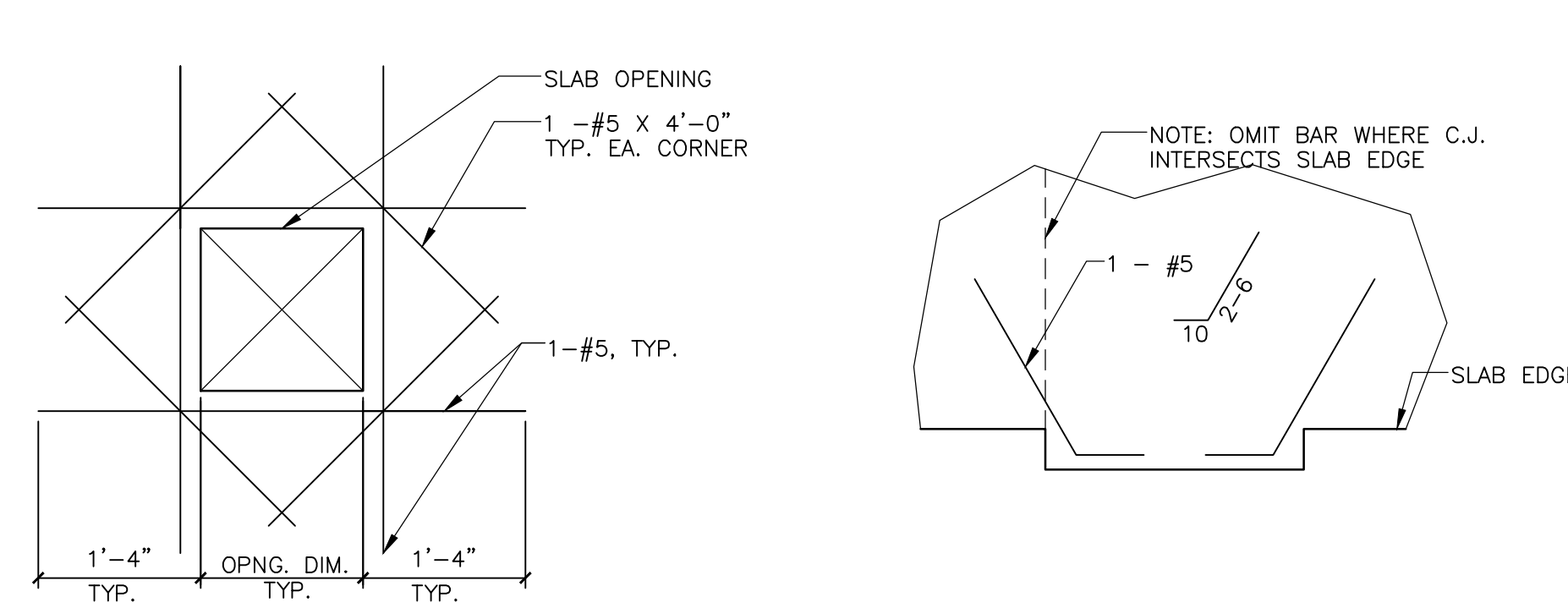
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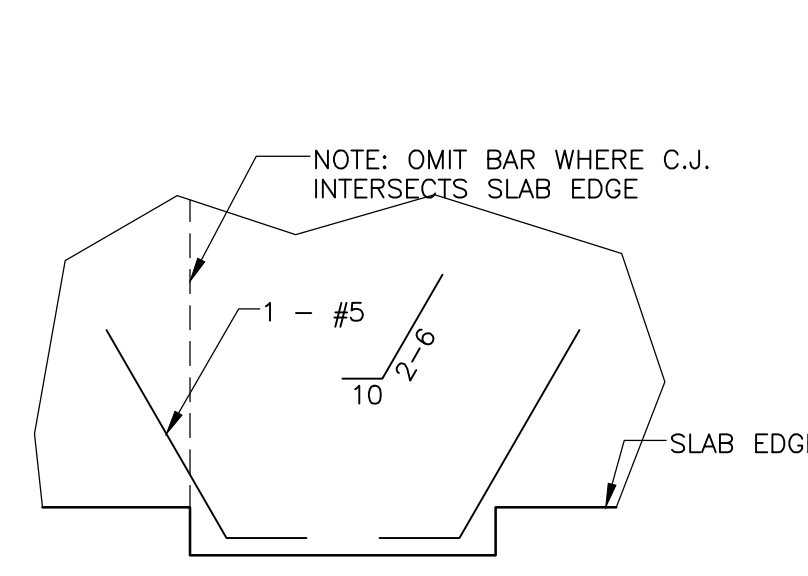
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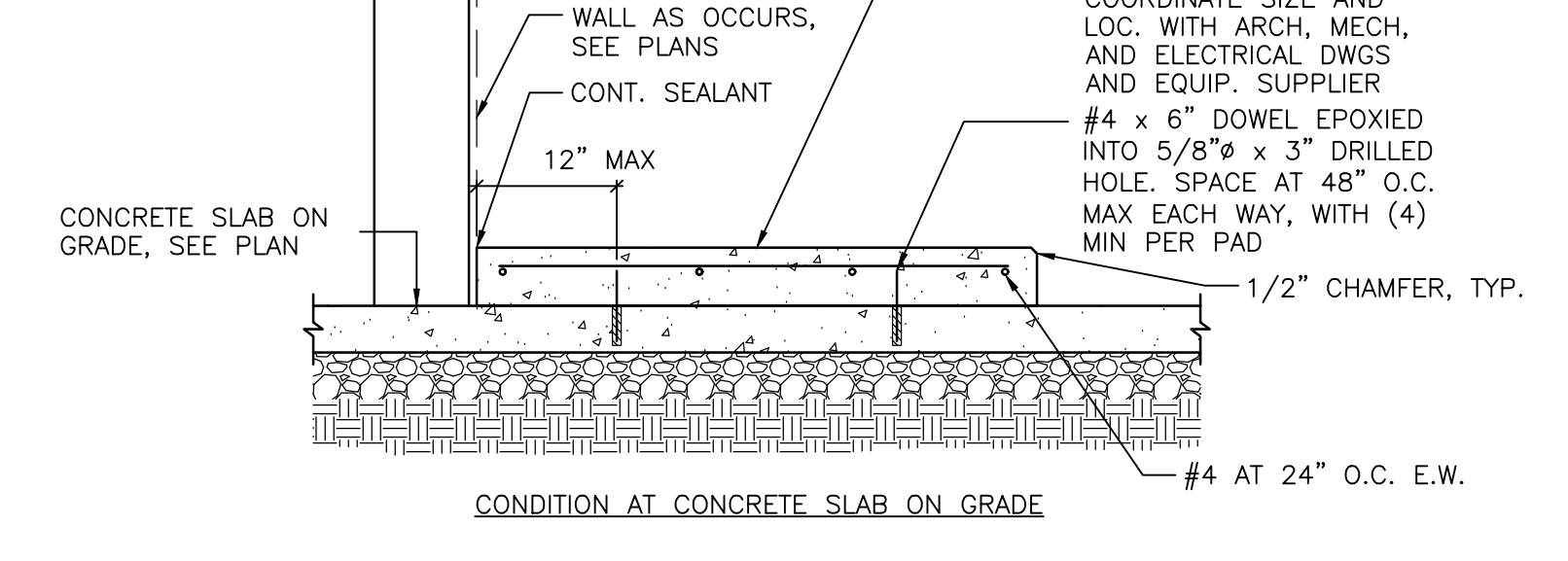
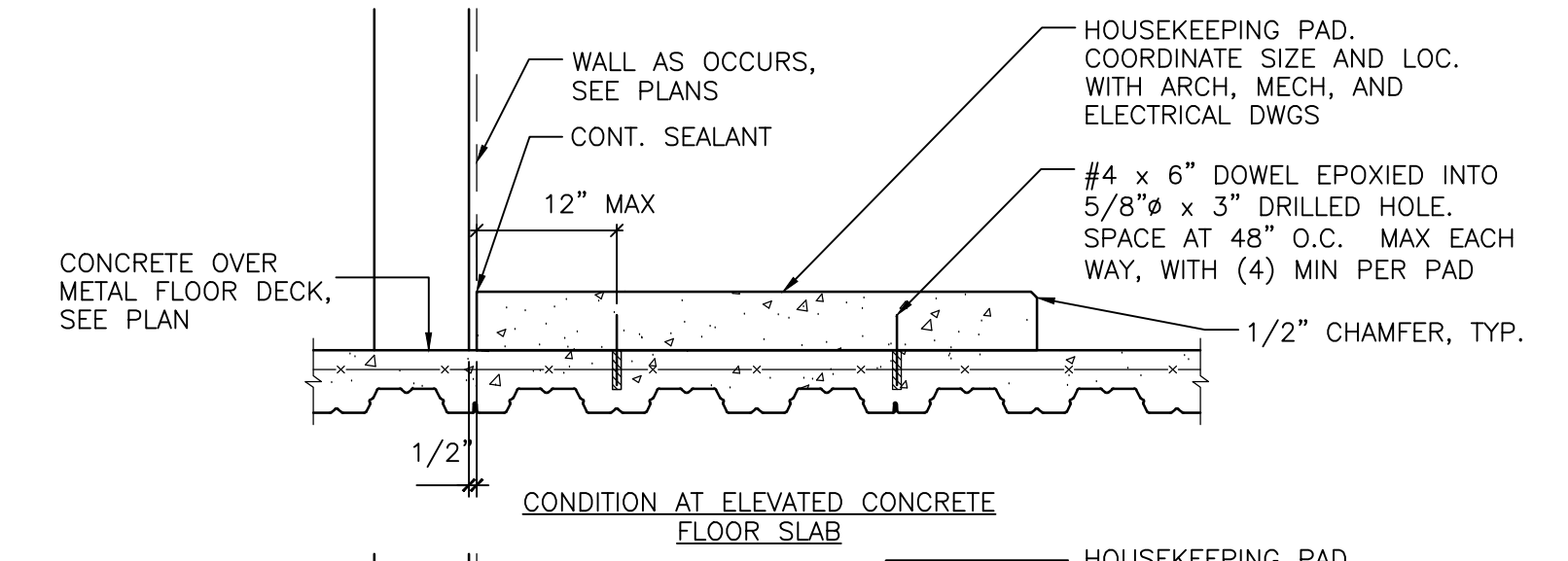
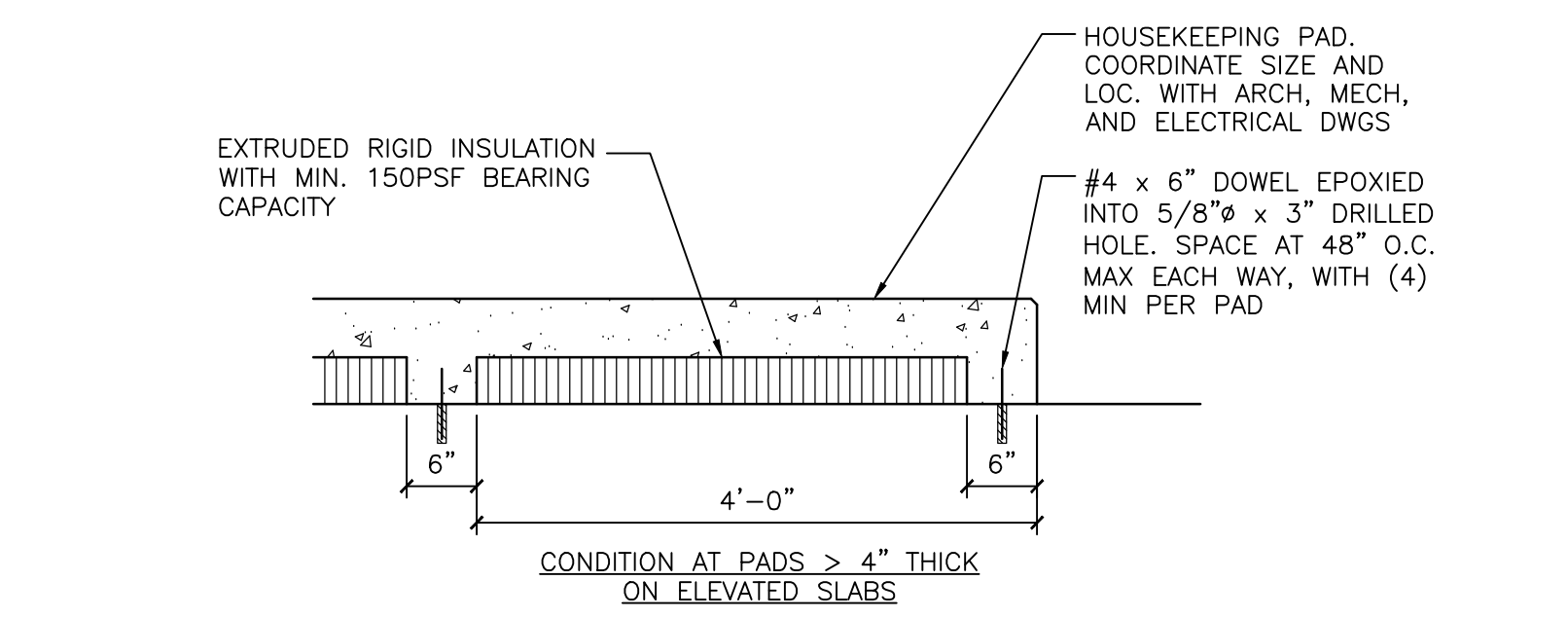
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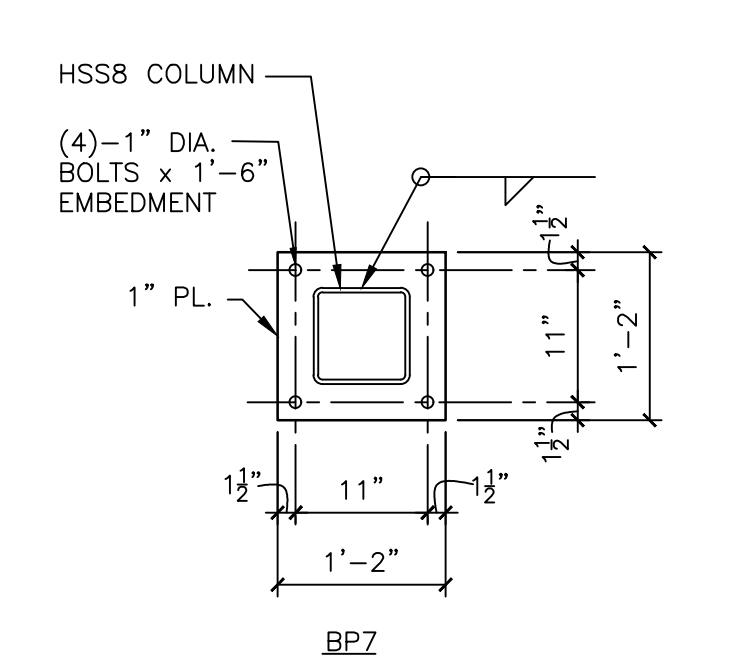
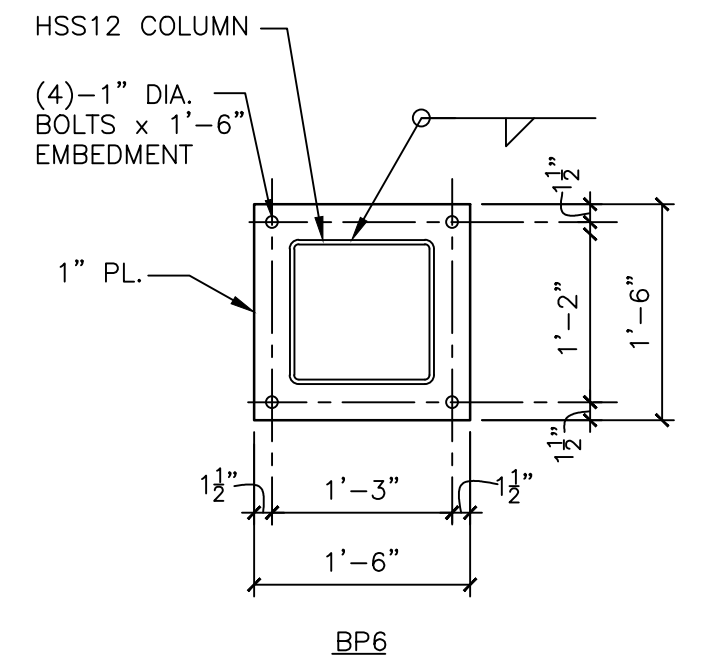
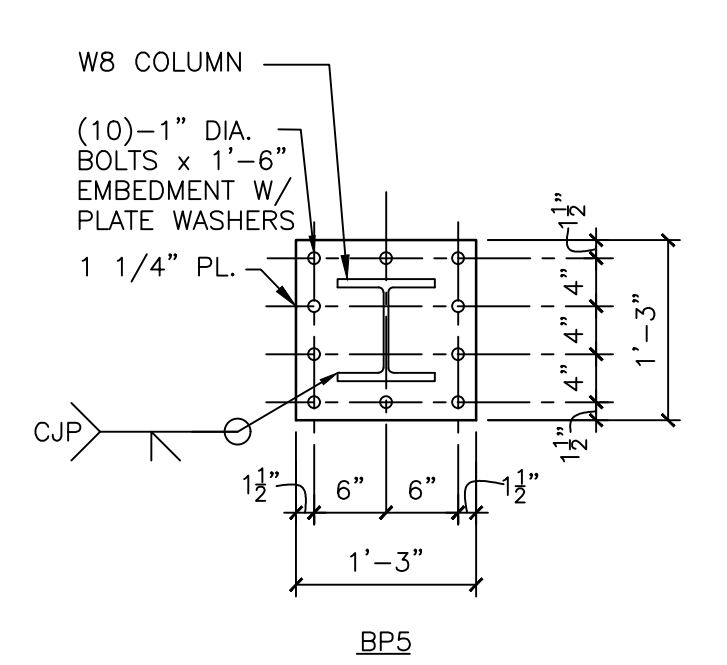
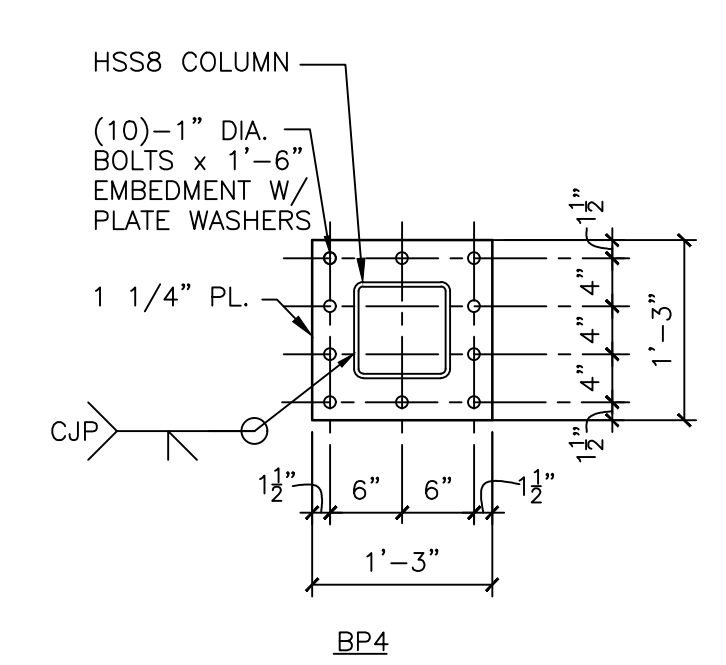
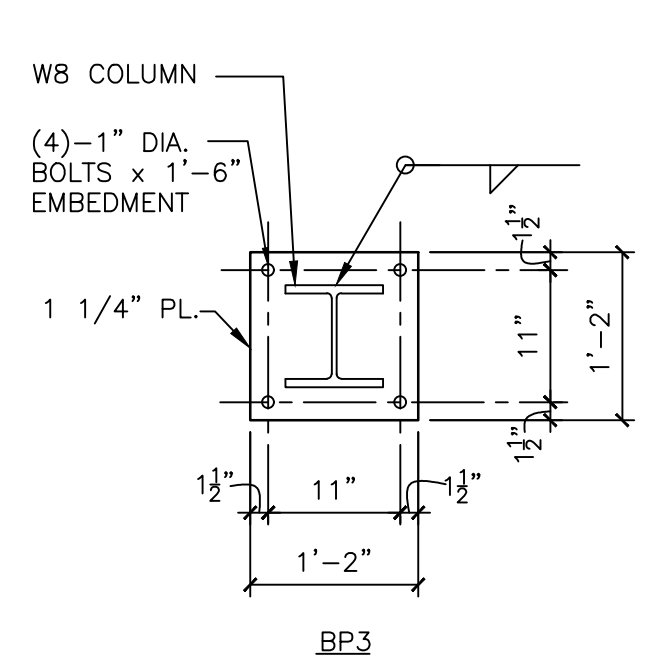
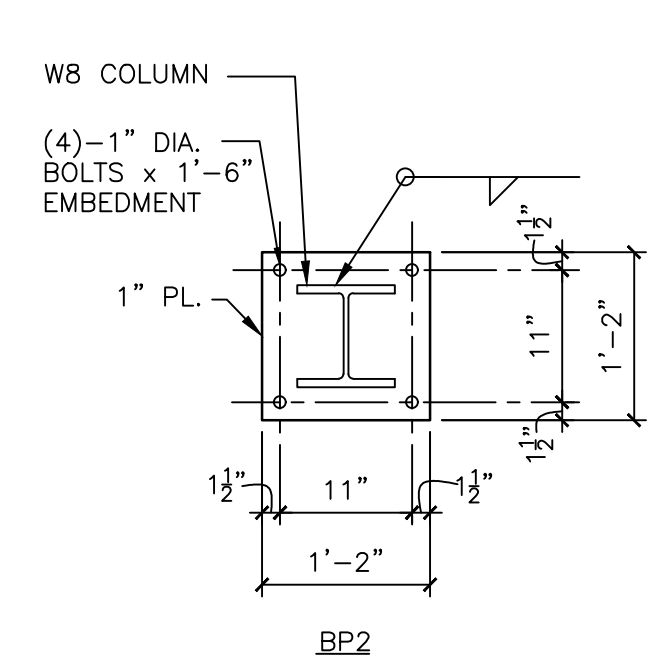
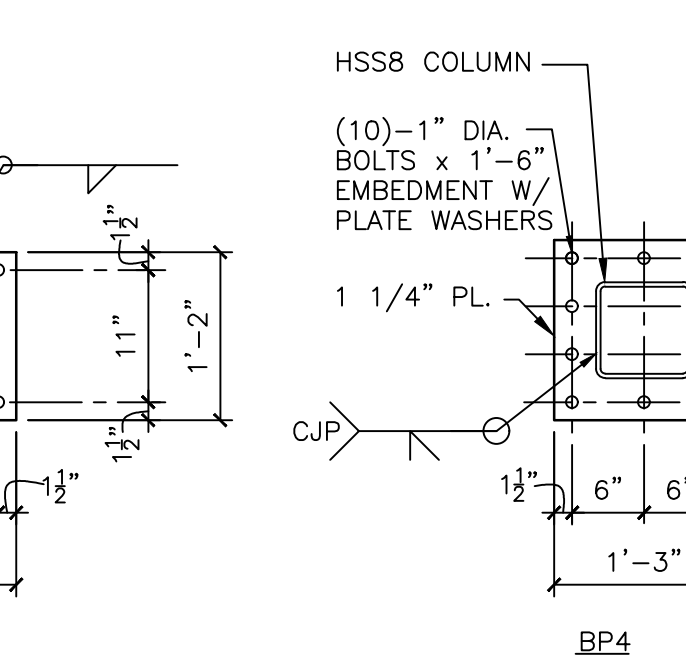
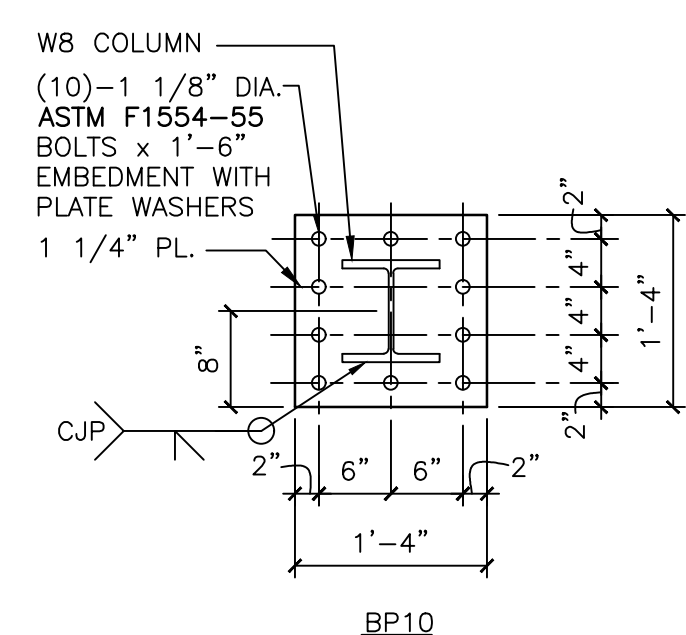
B6 SLAB OPENING DETAIL - PLAN
3/4"-1'-0"



B7 SLAB DOWELS AT DOORS - PLAN
3/4"-1'-0"



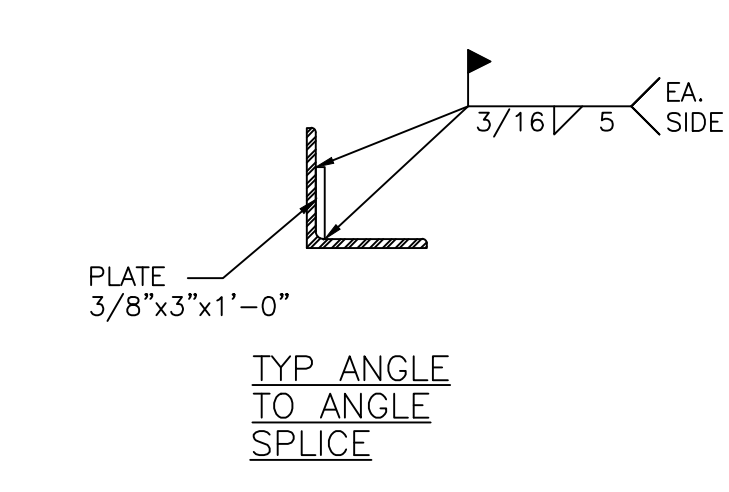
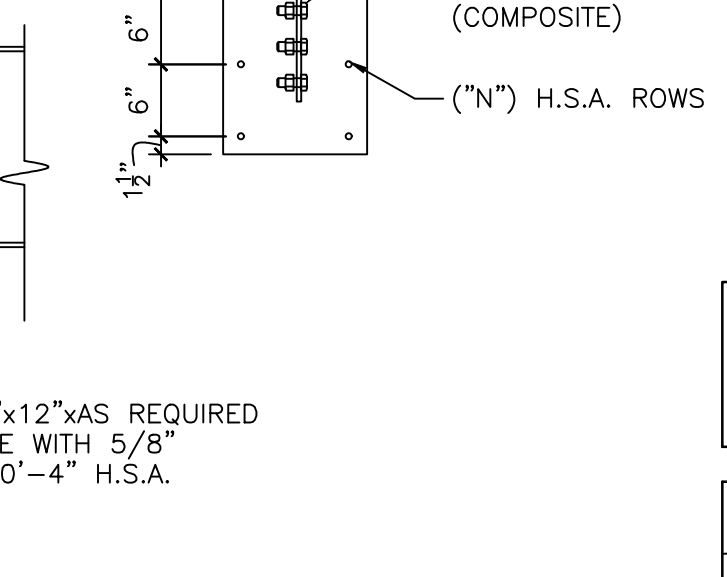
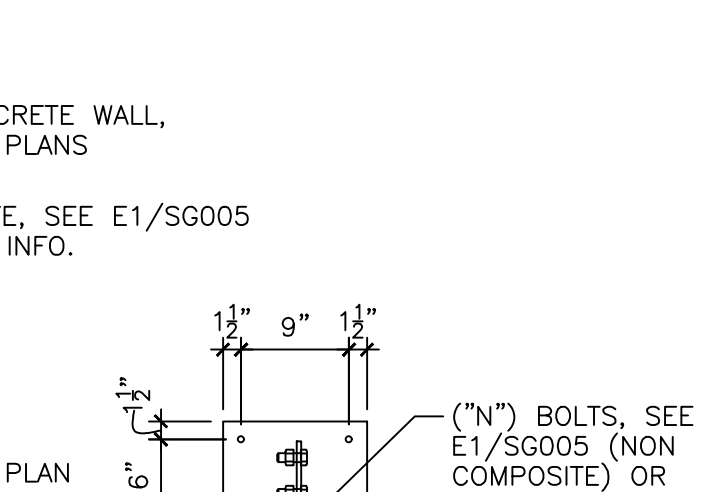
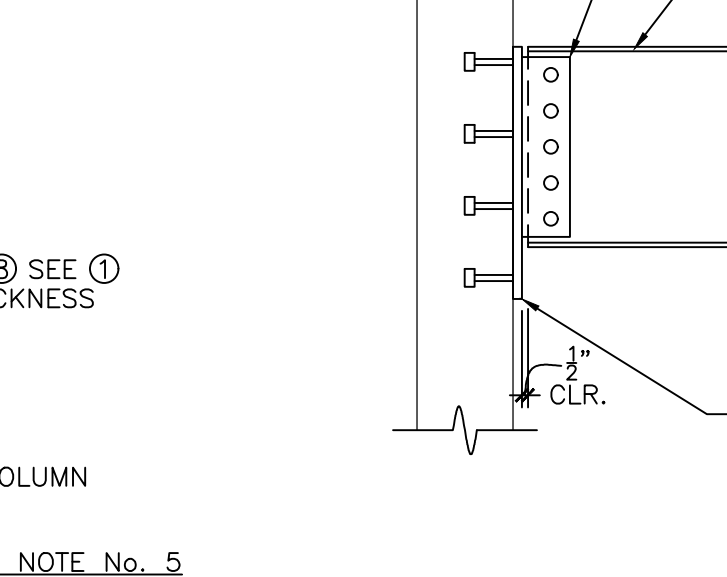
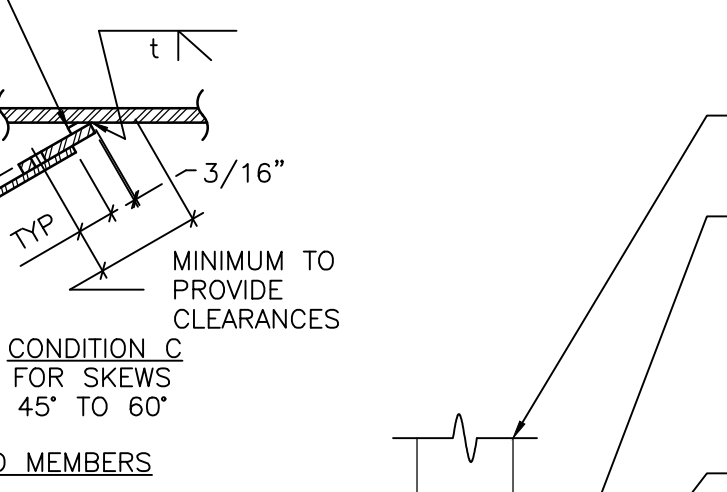
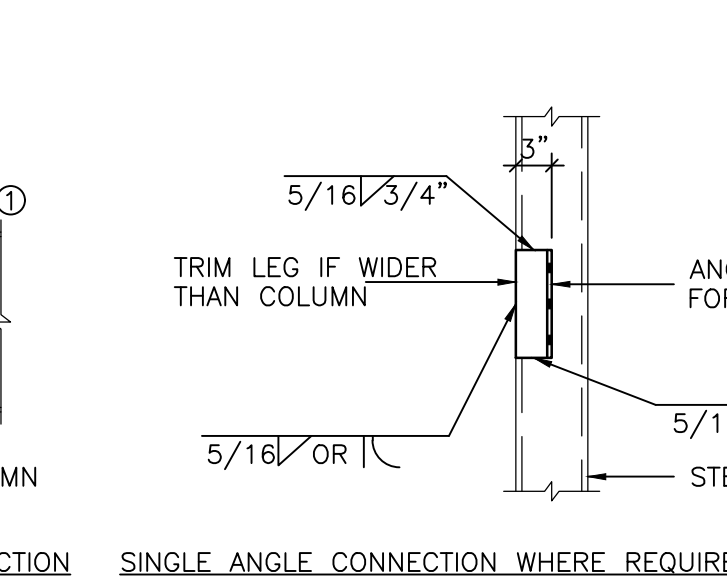
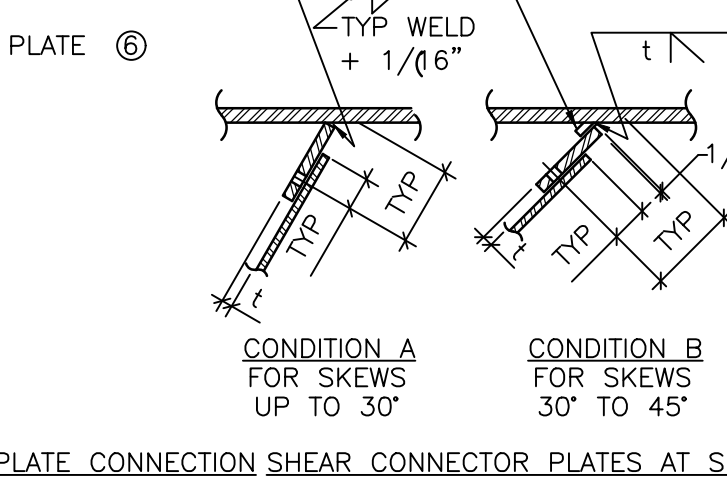
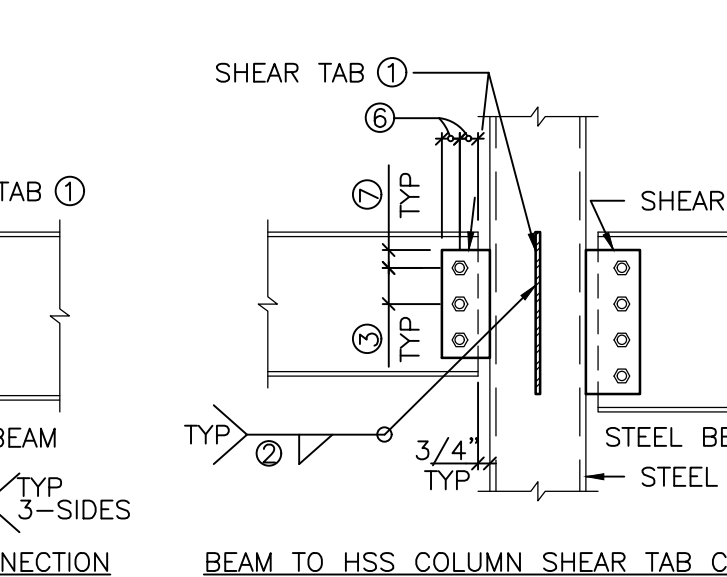
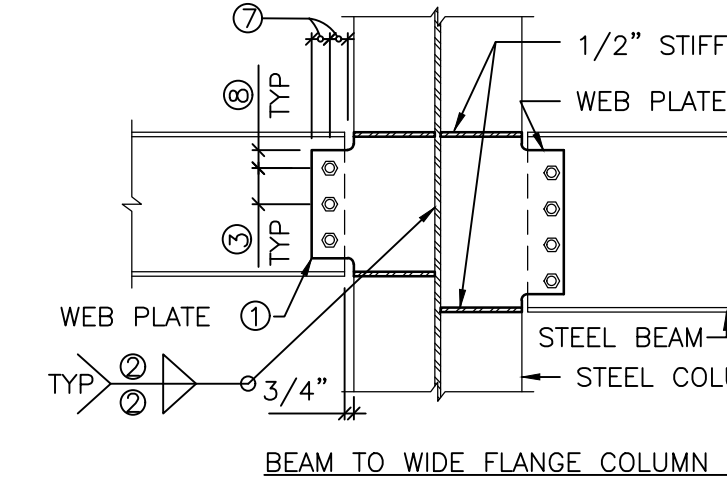
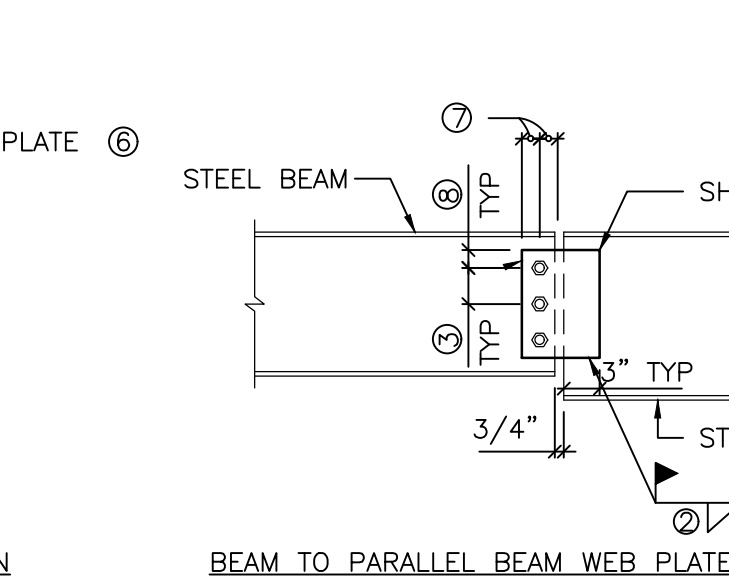
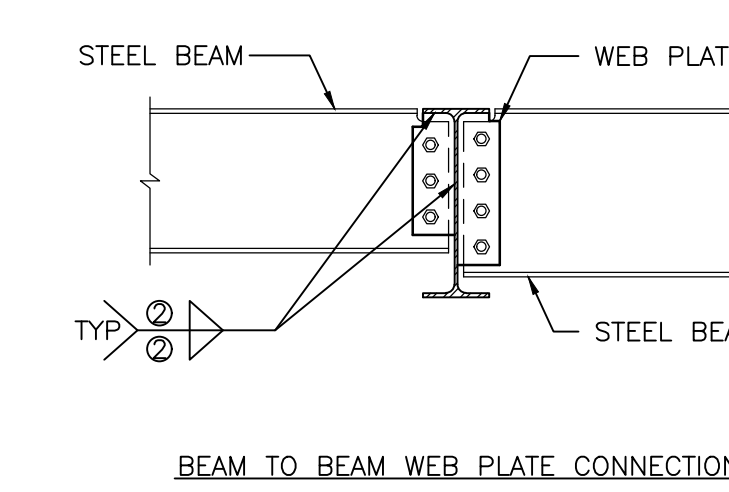
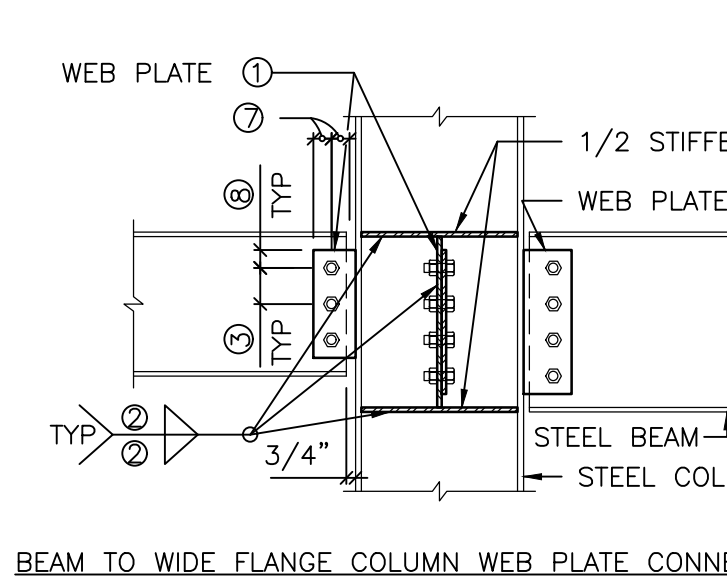
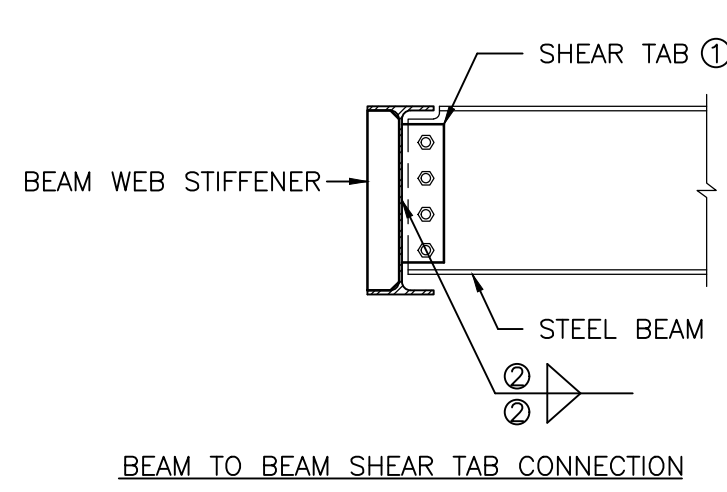
B8 SECTION - HOUSEKEEPING/EQUIPMENT PAD
3/4"-1'-0"



C1 BASEPLATE AND ANCHOR BOLT LAYOUTS
NOT TO SCALE

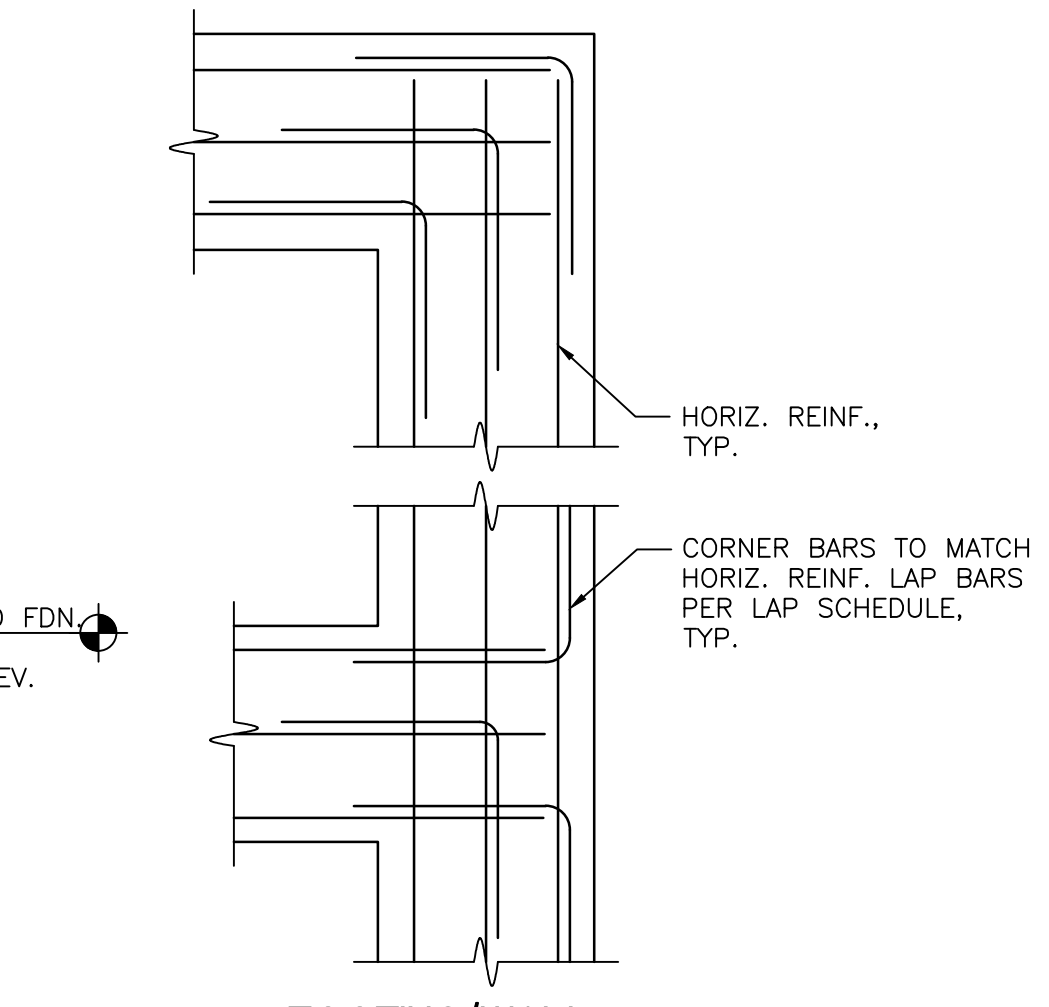
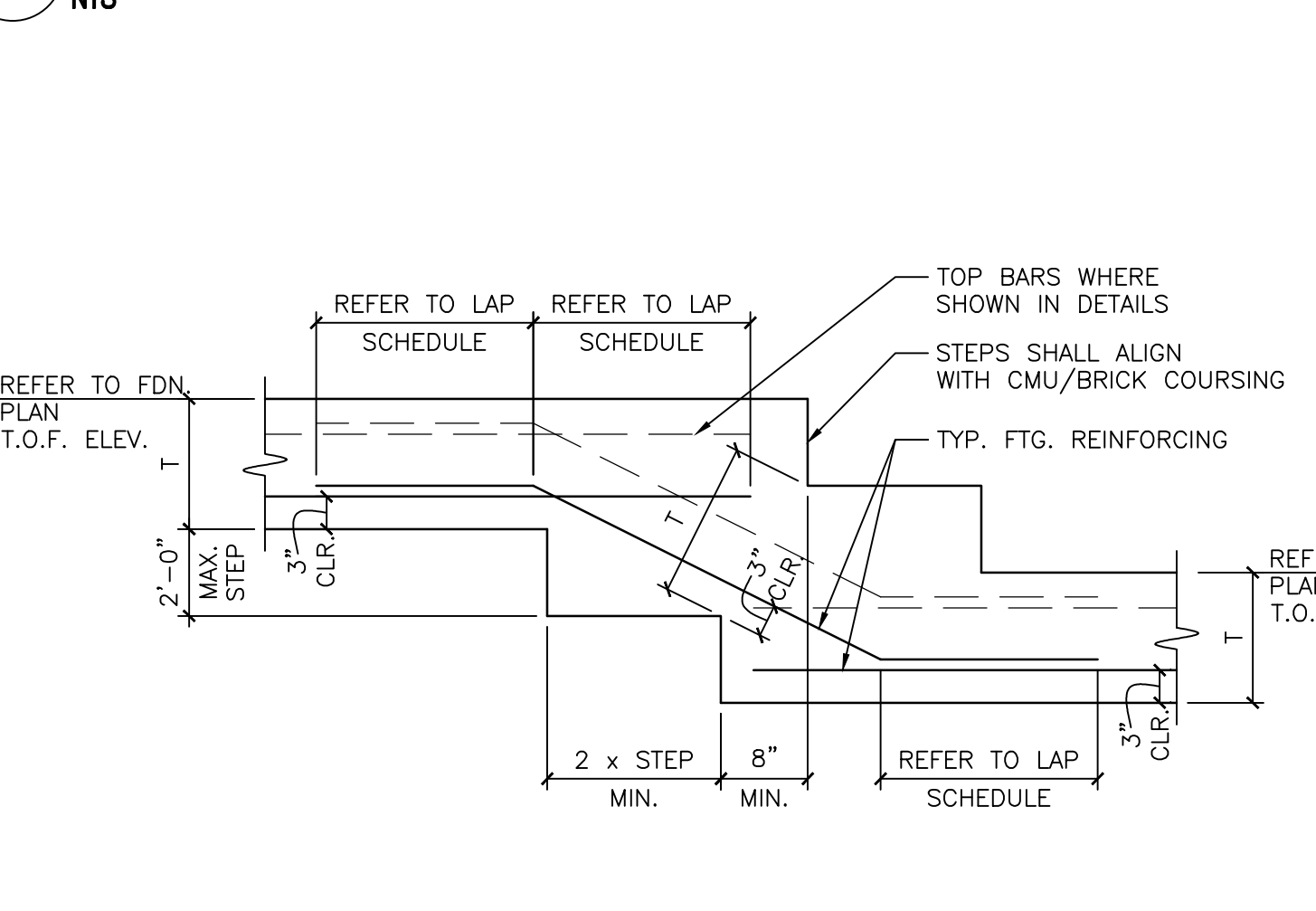
A-325 BOLT SCHEDULE		A-325N BOLTS	
MAX BEAM SIZE IN BEAM DEPTH GROUP	No. PER BEAM	SIZE	ASD CAPACITY
W8	2	3/4"	16.45K
W10	2	3/4"	21.2K
W12	3	3/4"	24.45K
W14	3	3/4"	31.8K
W16	4	3/4"	42.4K
W18	5	3/4"	53.0K
W21	6	3/4"	63.6K
W24	7	3/4"	74.2K
W27	8	3/4"	84.8K
W30	9	3/4"	95.4K

- ① SHEAR TAB SHALL BE 3/8" THICK.
- ② 5/16" FILLET WELD EACH SIDE OF SHEAR TAB.
- ③ BOLT SPACING SHALL BE 3" MIN, TYP.
- ④ WHEN MORE THAN ONE ROW OF BOLTS IS NEEDED, THE FIRST ROW SHALL BE A COMPLETE ROW WITH THE REMAINDER OF THE BOLTS PLACED IN THE SECOND ROW.
- ⑤ HSS COLUMN SHALL HAVE A MINIMUM 1/4" THICKNESS USE A SINGLE ANGLE CONNECTION WHERE STEEL TUBE WALL IS TOO THIN.
- ⑥ AT MOMENT FRAME COLUMNS, SEE MOMENT CONNECTION DETAILS FOR CONTINUITY PLATE REQUIREMENTS.
- ⑦ BOLT EDGE DISTANCE, Le_b SHALL BE EQUAL TO TWICE THE BOLT DIAMETER FOR BOTH THE PLATE AND THE BEAM WEB.
- ⑧ BOLT EDGE DISTANCE, Le_w SHALL BE 1 1/4" FOR BOLT DIAMETERS 7/8" OR LESS AND 1 3/4" BOLT DIAMETER FOR BOLT DIAMETERS GREATER THAN 7/8".

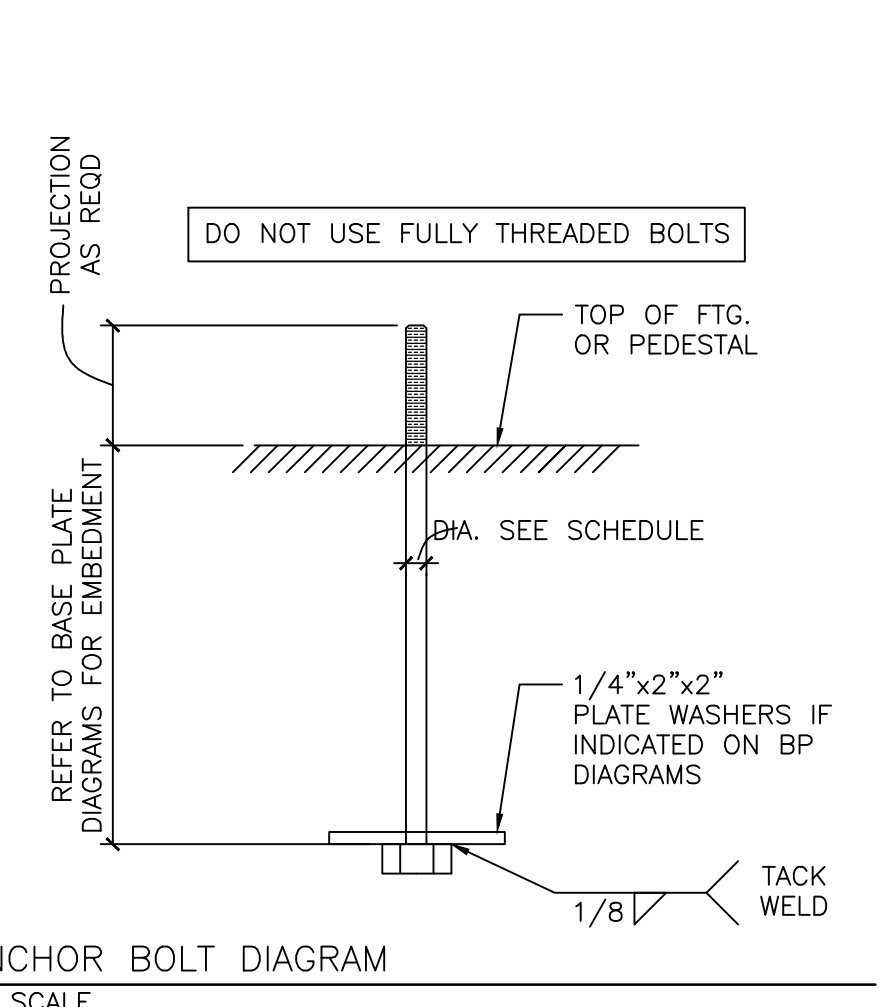


D8 CONTINUOUS ANGLE SPLICE DETAIL
3/4"-1'-0"

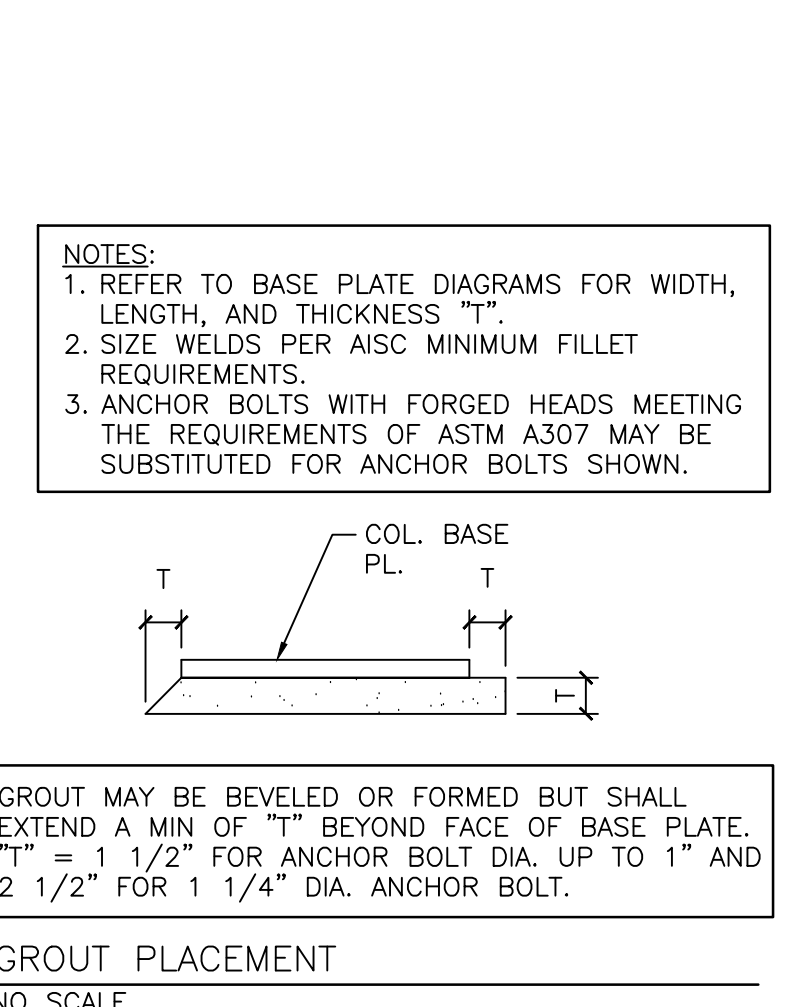
E1 TYPICAL BEAM CONNECTION DIAGRAM FOR NON-COMPOSITE BEAMS
3/4" BOLTED WEB PLATE CONNECTIONS WITH BOLT SCHEDULE
NTS



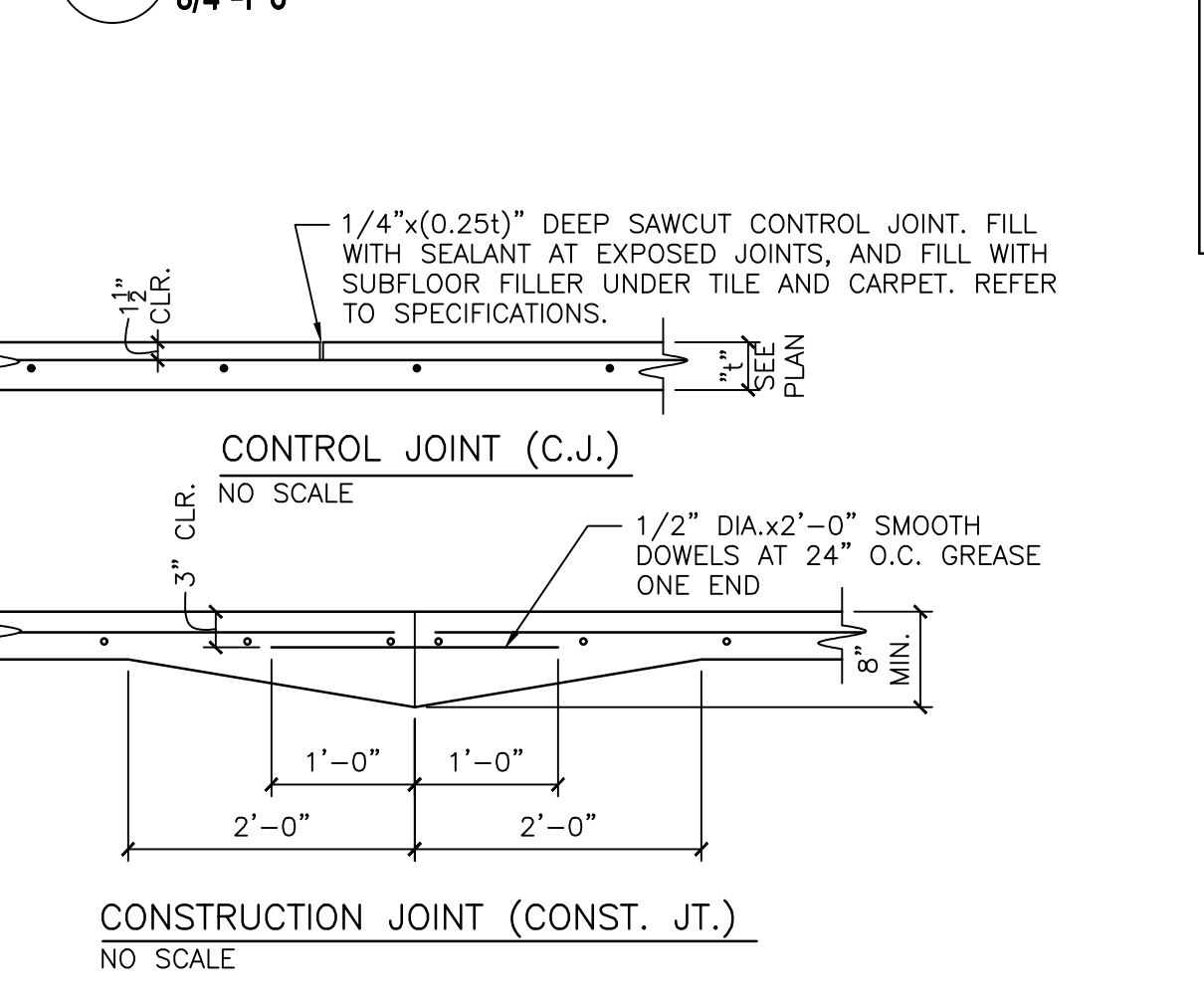
F3 FOOTING/WALL CORNER AND INTERSECTION
3/4"-1'-0"



F4 BASEPLATE AND ANCHOR BOLT DETAILS
3/4"-1'-0"



F7 SLAB JOINT DETAILS
3/4"-1'-0"



F8 REINFORCING BAR LAP SCHEDULE
3/4"-1'-0"

REINFORCEMENT TENSION LAPS, EMBEDMENT LENGTHS AND HOOK LENGTHS

CONCRETE	f _c =3,000 PSI			f _c =4,000 PSI			CMU f' _m =2,000 PSI		
	BAR SIZE	LAP CLASS	SPLICE	TOP	OTHER	HOOK LENGTH	BAR SIZE	SPLICE	
f' _c =60,000 PSI	#3	B	28"	22"	6"	25"	19"	8"	
	#4	B	38"	29"	8"	33"	25"	10"	
	#5	B	47"	36"	10"	41"	31"	12"	
	#6	B	56"	43"	12"	49"	37"	15"	
	#7	B	81"	63"	14"	71"	54"	17"	
	#8	B	93"	72"	16"	81"	62"	19"	
	#9	B	105"	81"	18"	91"	70"	22"	
	f' _c =60,000 PSI	#3						18"	18"
		#4						24"	24"
#5							30"	30"	
#6							x	36"	
#7							x	48"	
#8							x	x	
#9							x	x	

- NOTES
- LENGTHS SHOWN CONFORM WITH NON-SEISMIC PROVISIONS OF THE CURRENT EDITION OF ACI 318/530 IBC FOR UNCOATED BARS NOT ENCLOSED BY CLOSELY SPACED SPIRALS OR TIES. DEVELOPMENT OF REINFORCEMENT NOT COVERED BY THE TABLE SHALL CONFORM WITH THE CURRENT EDITION OF CODES.
 - LAP AND EMBEDMENT LENGTHS SHOWN APPLY WHEN BAR MINIMUM CONCRETE COVER OVER BARS CONFORMS WITH VALUES GIVEN IN THE TABLE FOR "CONCRETE COVER". THESE COVER VALUES CONFORM WITH THE CURRENT EDITION OF ACI 318.
 - HOOK LENGTH GIVEN IS THE STRAIGHT LINE DISTANCE FROM THE LOCATION OF MAXIMUM STRESS IN THE BAR TO THE OUTSIDE END OF THE HOOK. MULTIPLY LENGTHS GIVEN BY 1.43 FOR HOOKS WITH SIDE COVER NORMAL TO THE HOOK LESS THAN 2 1/2 INCHES AND FOR 90 DEGREE HOOKS COVER ON BAR EXTENSION BEYOND HOOK LESS THAN 2 INCHES.
 - TOP BARS ARE HORIZONTAL REINFORCEMENT PLACED SO THAT MORE THAN 12 INCHES OF CONCRETE IS CAST BELOW THE REINFORCEMENT.
 - MULTIPLY LAP AND EMBEDMENT LENGTHS GIVEN BY 2.0 FOR BARS WITH CLEAR SPACING OF TWO BAR DIAMETERS OR LESS OR CONCRETE COVER OF ONE BAR DIAMETER OR LESS.
 - MINIMUM CONCRETE COVER FROM FACE OF MEMBER TO EDGE OF BAR SHALL NOT BE LESS THAN TWO AND ONE HALF BAR DIAMETERS. THIS REQUIREMENT IS IN ADDITION TO ACI MINIMUM DETAILING CONCRETE COVER.

F1 FOOTING STEP DETAIL
NTS

ADDENDUM 1	08-09-24
Revisions:	Date:

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STAMP

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title

GENERAL STRUCTURAL DETAILS

Phase

100% CONSTRUCTION DOCUMENTS

Project Title

DESIGN REPLACE BOILER PLANT

Location

SIoux FALLS VAMC
SIoux FALLS, SD 57105

Issue Date

08-09-2024

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Drawn

DRW

Project Number

438-22-900

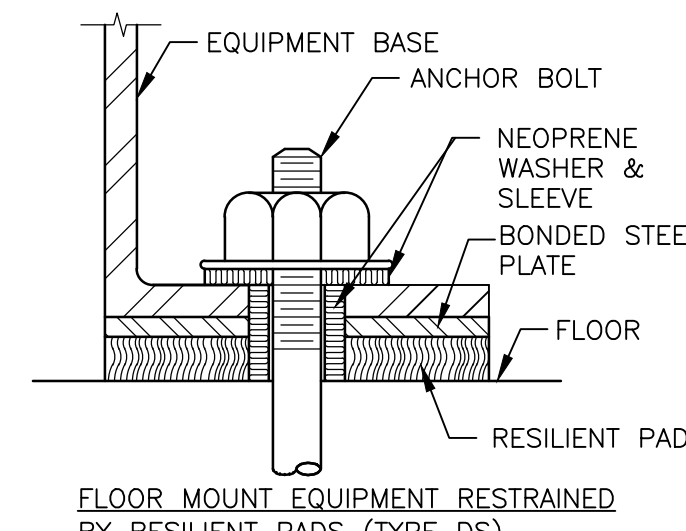
Building Number

12

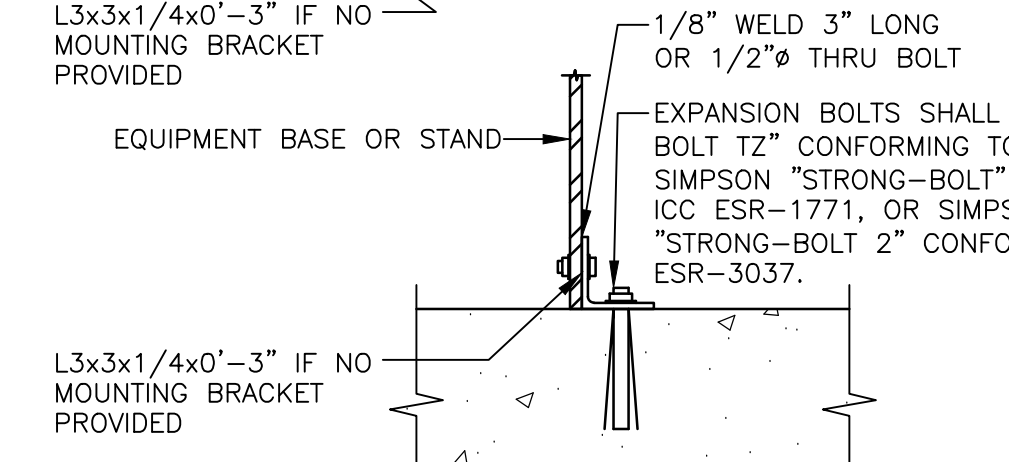
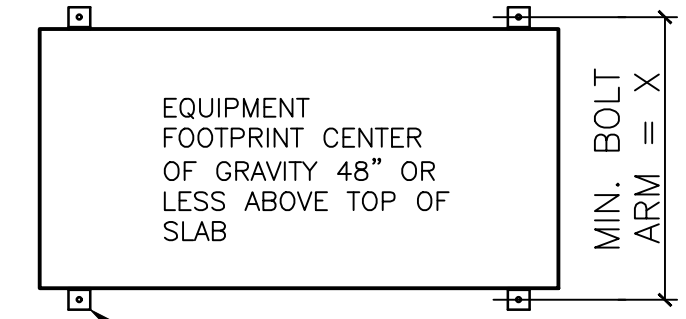
Drawing Number

SG005

FULLY SPRINKLERED



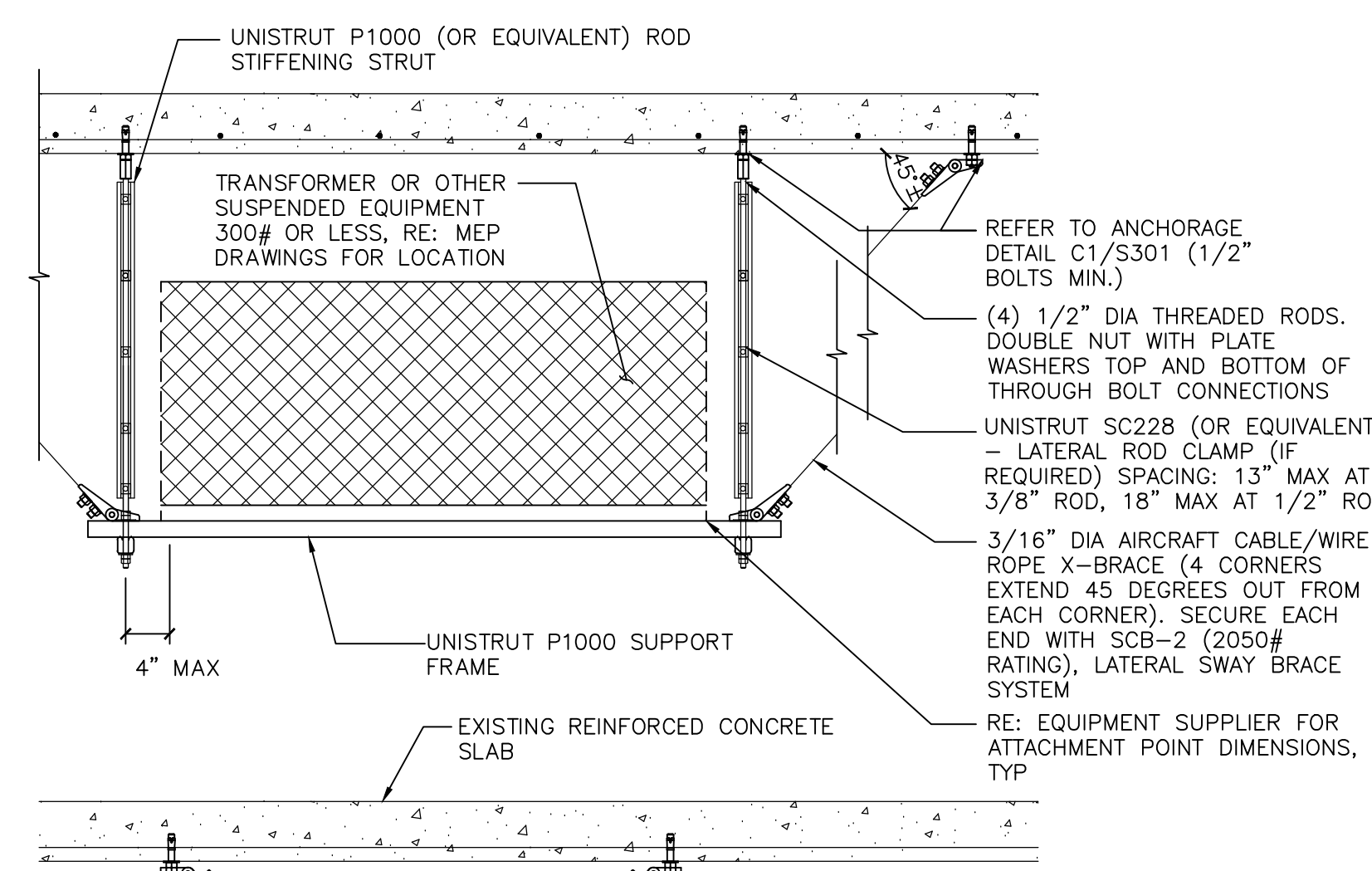
B2 RESILIENT PAD MOUNTING DETAIL
NOT TO SCALE



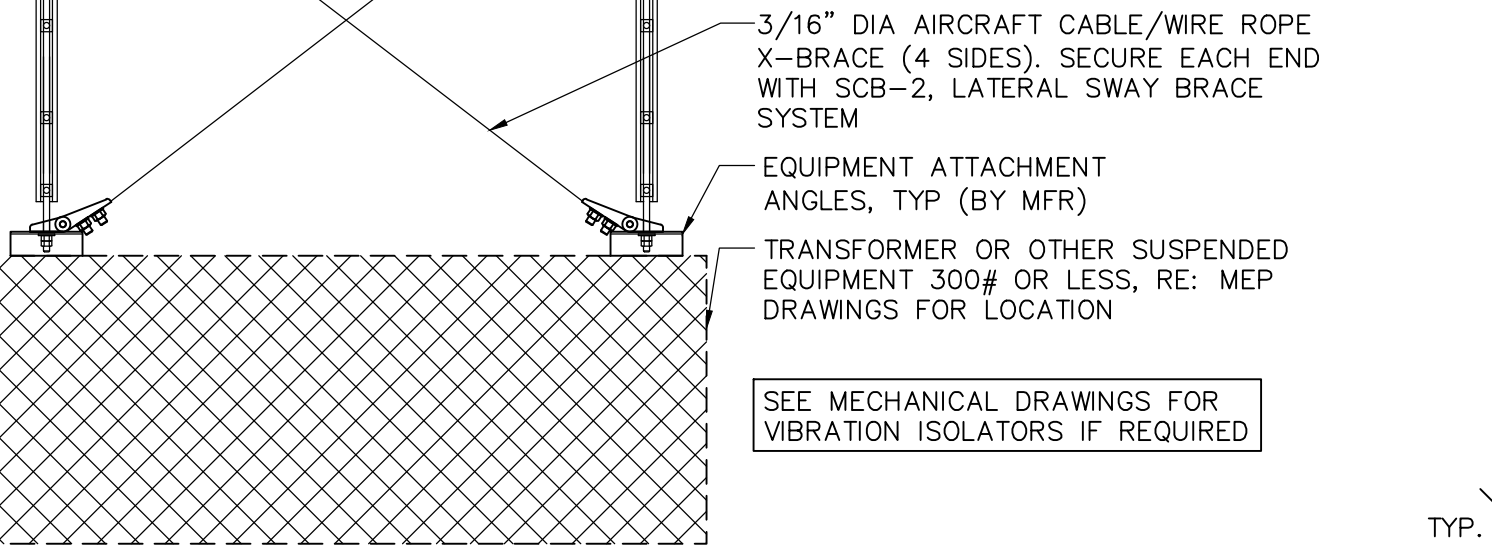
NOTE: THIS SCHEDULE IS FOR USE WITH MAXIMUM $F_p=2.5g$ (ASD) ($SD_s=1.041g$ & $I=1.5$, A_p AND R_p PER COMPONENT)

EQUIPMENT OPERATING WEIGHTS	EQUIPMENT OPERATING WEIGHTS						
	250#	500#	1000#	2000#	3000#	4000#	6000#
BOLT ARM X = 12"	3/8	1/2	3/4	N/A	N/A	N/A	N/A
X = 24"	3/8	3/8	1/2	3/4	1	N/A	N/A
X > 48"	3/8	3/8	3/8	1/2	5/8	3/4	1

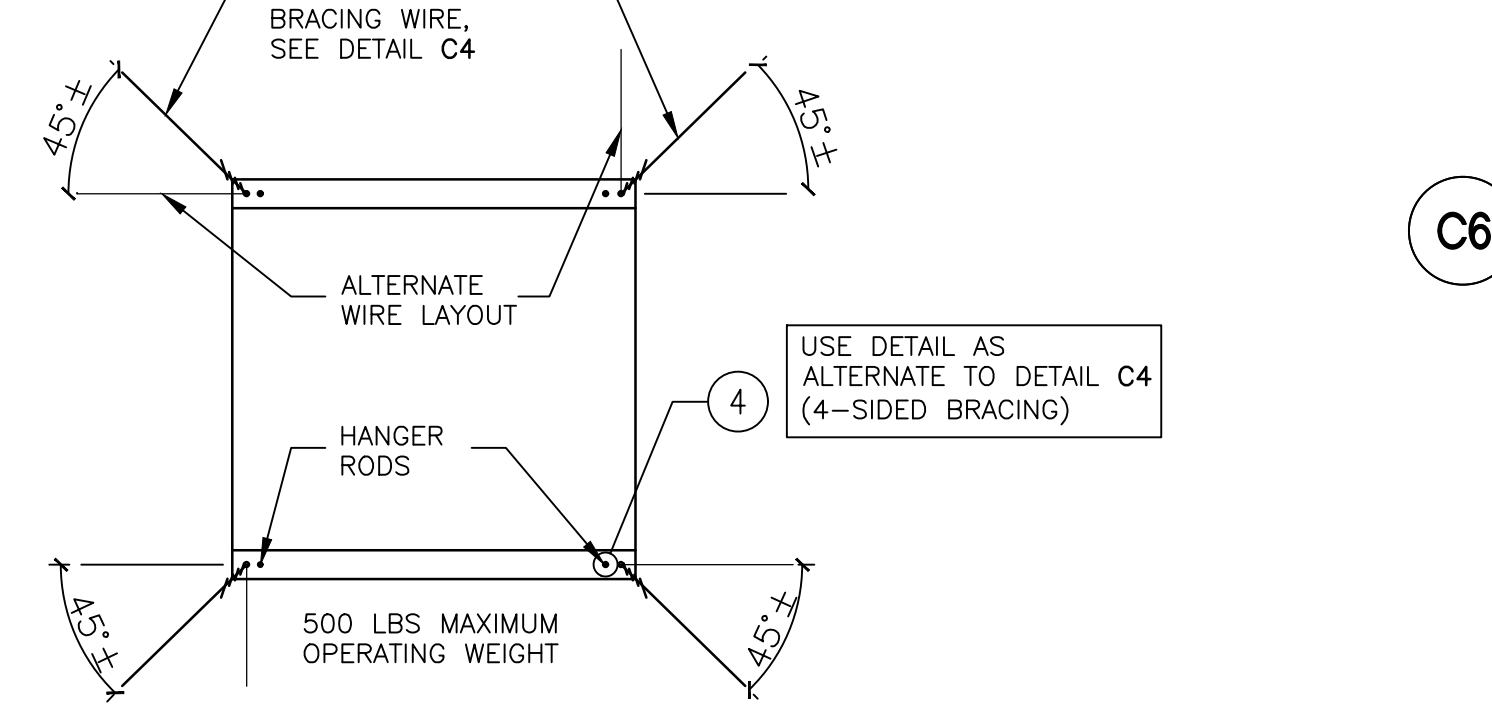
DENOTES BOLT DIAMETER, TYP., REFER TO EXPANSION BOLT SUPPLIER FOR REQUIRED MINIMUM EMBEDMENT DEPTH PER BOLT DIAMETER



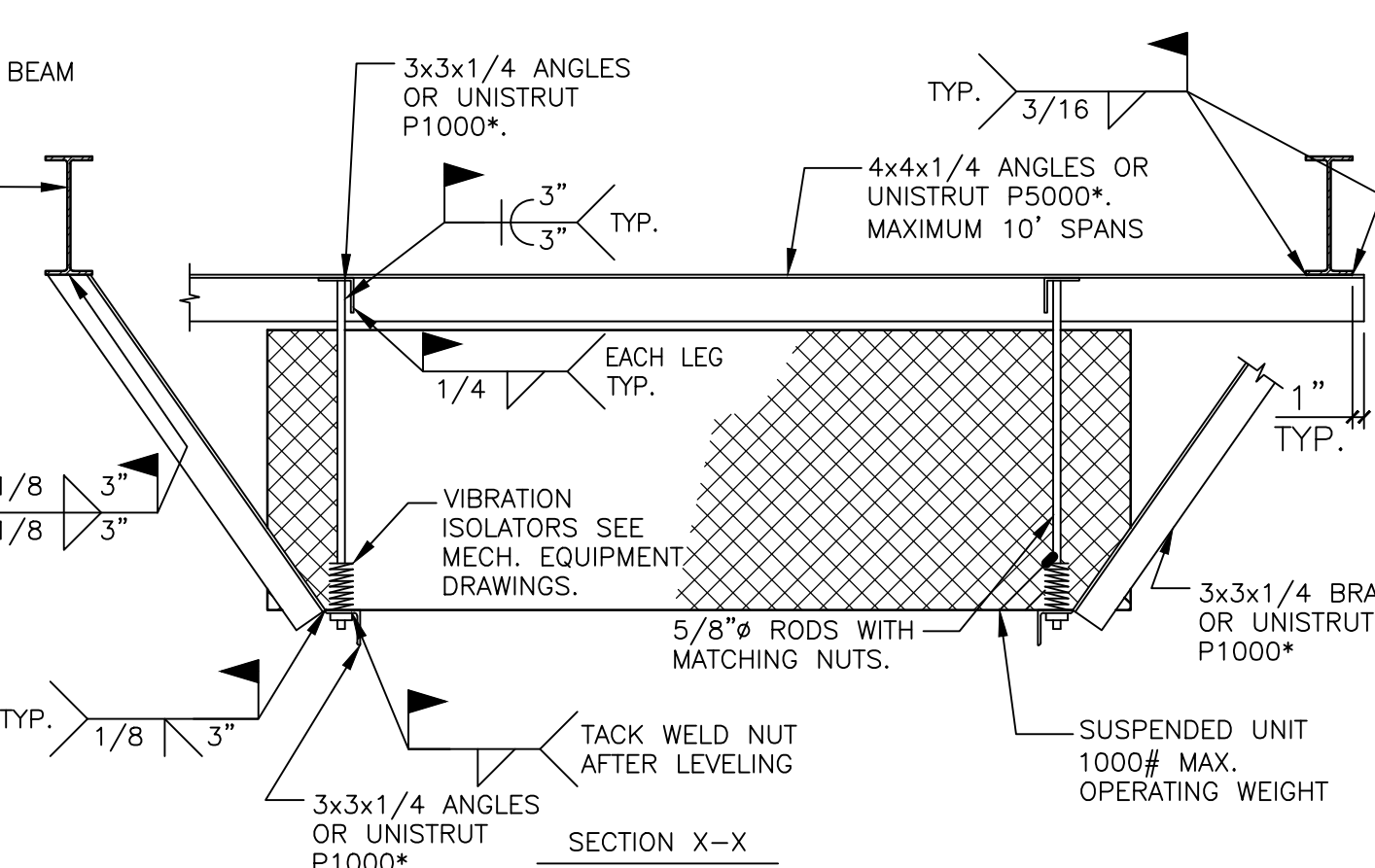
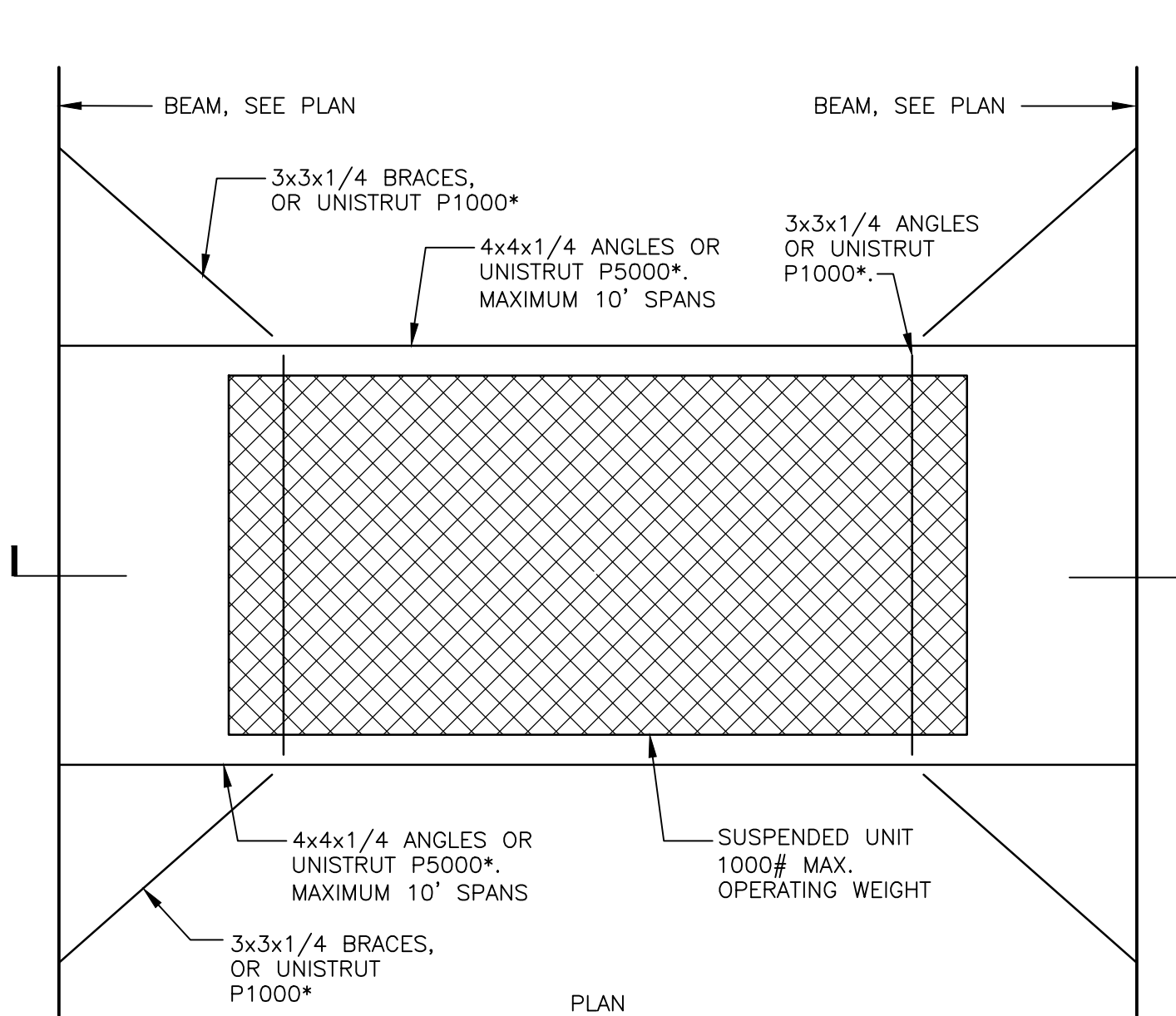
C4 TYPICAL SUSPENDED EQUIPMENT ANCHORAGE (CONCRETE)
NOT TO SCALE



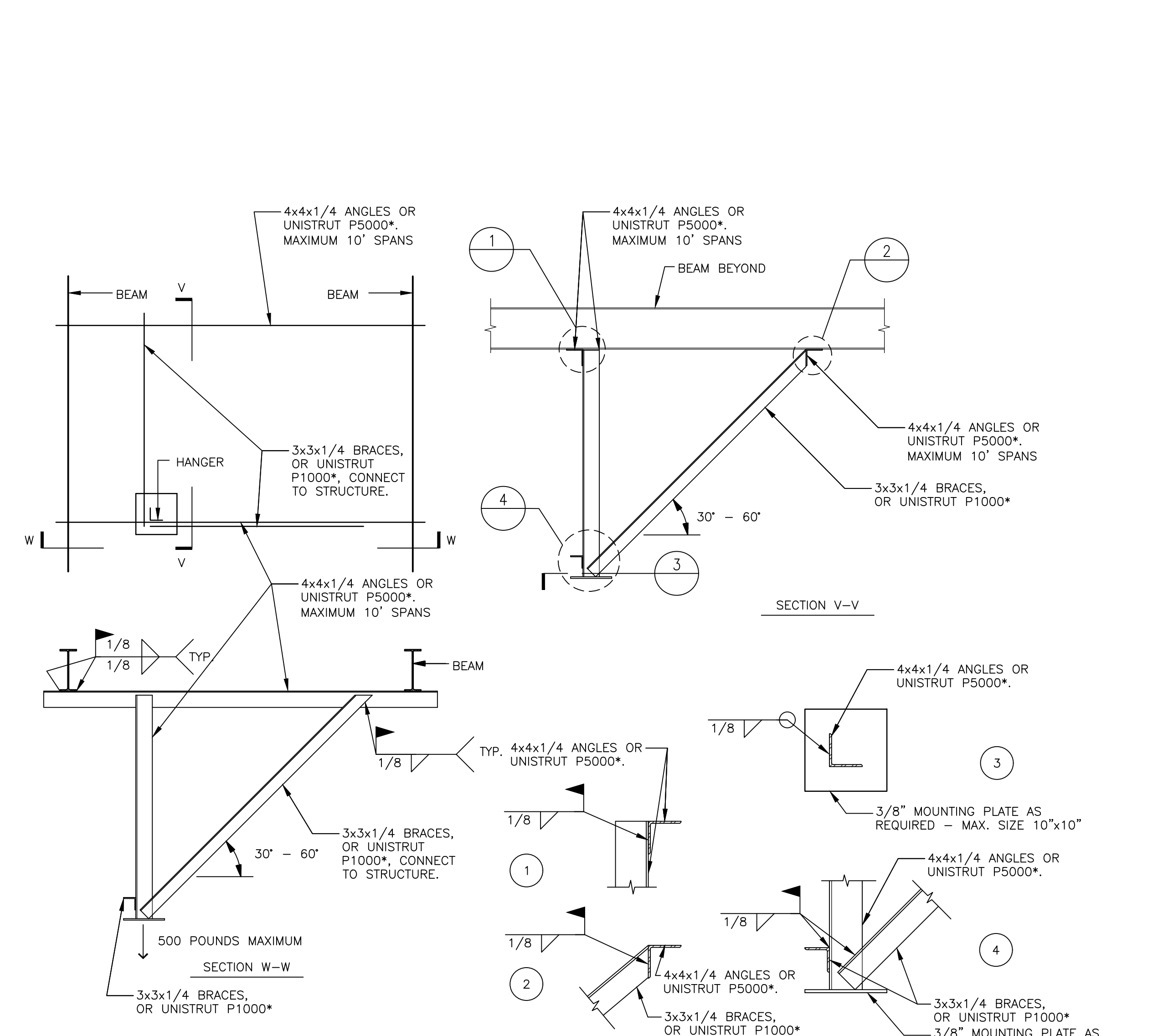
C6 TYPICAL SUSPENDED EQUIPMENT ANCHORAGE (BEAMS)
NOT TO SCALE



D4 CABLE/ANGLE BRACING PLAN (SPRAYED)
NOT TO SCALE



F7 SUSPENDED EQUIPMENT ANCHORAGE (BELOW BEAMS)
NOT TO SCALE



GENERAL SHEET NOTES

- REFER TO EQUIPMENT AND PIPING BRACING GENERAL NOTES ON SHEET SG001/SG002 FOR MORE INFORMATION.
- ALL BRACING DETAILS AND DIAGRAMS SHOWN ARE DIAGRAMMATIC IN NATURE AND DO NOT FULLY DETAIL THE FINAL CONFIGURATION AND SPACING OF ALL BRACING. DETAILS ARE GENERAL IN NATURE AND SHALL BE SUPERSEDED BY ANCHORAGE AND BRACING SPECIFICALLY SHOWN ON THE MEP DRAWINGS.
- DIAGRAMS AND DETAILS SHOWN ARE MINIMUM REQUIREMENTS IN THE ABSENCE OF SPECIFIC DETAILS NOTED ABOVE.
- *FOR UNISTRUT OPTION, FURNISH WITH ALL NECESSARY CONNECTING HARDWARE TO EQUAL ALLOWABLE STRESS CAPACITIES OF WELDS OR BOLTS SHOWN ON DETAILS.

BRACING SUBMITTALS

- SHOP-DRAWING PREPARATION:
- HAVE BRACING AND RESTRAINT SHOP DRAWINGS SUBMITTED AS A PART OF THE MISCELLANEOUS STEEL SUBMITTAL OR AS AN INDEPENDENT SUBMITTAL UNDER SECTION 05 20 00.

COORDINATION:

- DO NOT INSTALL RESTRAINTS UNTIL SUBMITTALS ARE APPROVED.
- COORDINATE AND INSTALL TRAPEZE OR OTHER MULTI-PIPE HANGER SYSTEMS PRIOR TO PIPE INSTALLATION.

SUBMITTALS:

- SUBMIT A COORDINATED SET OF EQUIPMENT ANCHORAGE DRAWINGS PRIOR TO INSTALLATION INCLUDING:
- DESCRIPTION, LAYOUT, AND LOCATION OF ITEMS TO BE ANCHORED OR BRACED WITH ANCHORAGE OR BRACE POINTS NOTED AND DIMENSIONED.
 - DETAILS OF ANCHORAGE OR BRACING AT LARGE SCALE WITH ALL MEMBERS, PARTS BRACKETS SHOWN, TOGETHER WITH ALL CONNECTIONS, BOLTS, WELDS ETC. CLEARLY IDENTIFIED AND SPECIFIED.
 - FOR EXPANSION BOLTS, INCLUDE DESIGN LOAD AND CAPACITY IF DIFFERENT FROM THOSE SPECIFIED.

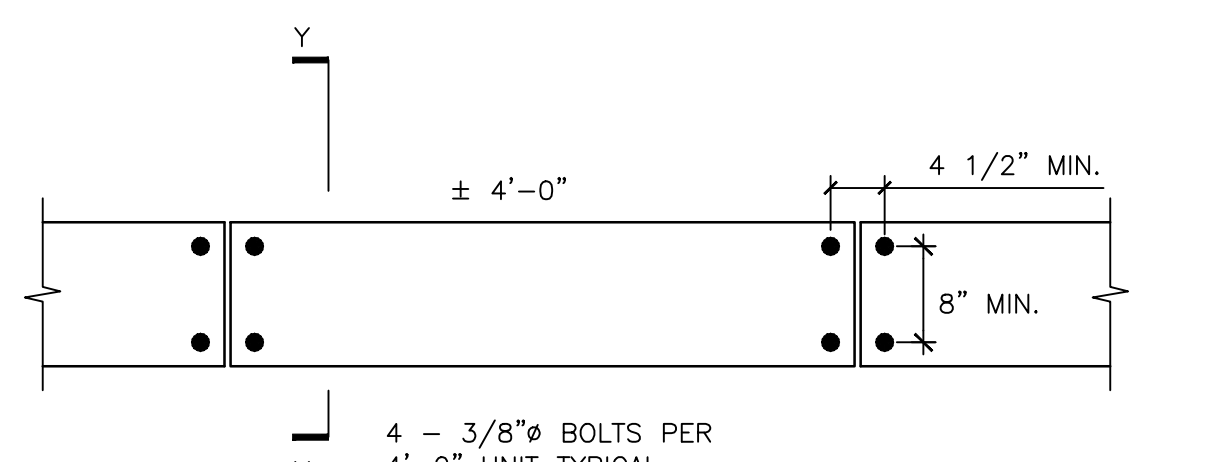
SUBMIT PRIOR TO INSTALLATION, A COORDINATED SET OF BRACING DRAWINGS FOR PROTECTION OF PIPING, WITH DATA IDENTIFYING THE VARIOUS SUPPORT-TO-STRUCTURE CONNECTIONS AND BRACING STRUCTURAL CONNECTIONS, INCLUDE:

- SINGLE-LINE PIPING DIAGRAMS ON A FLOOR-BY-FLOOR BASIS. SHOW ALL SUSPENDED PIPING FOR A GIVEN FLOOR ON THE SAME PLAN.
- TYPE OF PIPE (COPPER, STEEL, CAST IRON, INSULATED, NON-INSULATED, ETC.).
- PIPE CONTENTS.
- STRUCTURAL FRAMING.
- LOCATION OF ALL GRAVITY LOAD PIPE SUPPORTS AND SPACING REQUIREMENTS.
- NUMERICAL VALUE OF GRAVITY LOAD REACTIONS.
- LOCATION OF ALL GRAVITY AND LATERAL BRACING.
- NUMERICAL VALUE OF APPLIED BRACE LOADS.
- TYPE OF CONNECTION (VERTICAL SUPPORT, VERTICAL SUPPORT WITH LATERAL BRACE ETC.).
- HANGER/BRACE REACTION TYPE (TENSION OR COMPRESSION); DETAILS ILLUSTRATING ALL SUPPORT AND BRACING COMPONENTS, METHODS OF CONNECTIONS, AND SPECIFIC ANCHORS TO BE USED.

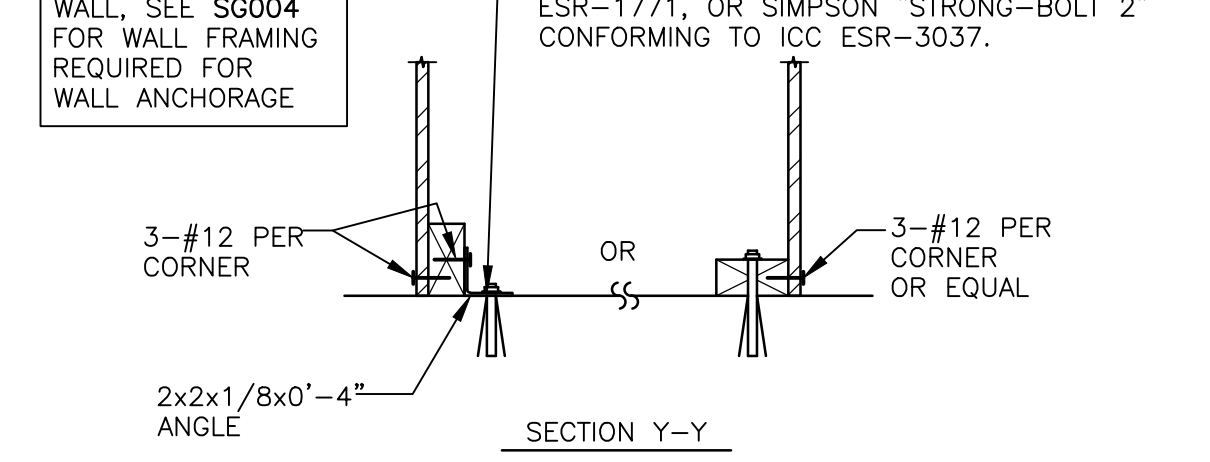
SUBMIT FOR ALL ANCHORS THE APPROPRIATE ICC-ESR REPORTS INDICATING SUITABILITY OF ANCHORS FOR USE IN ALL APPLICATIONS TO BE INSTALLED.



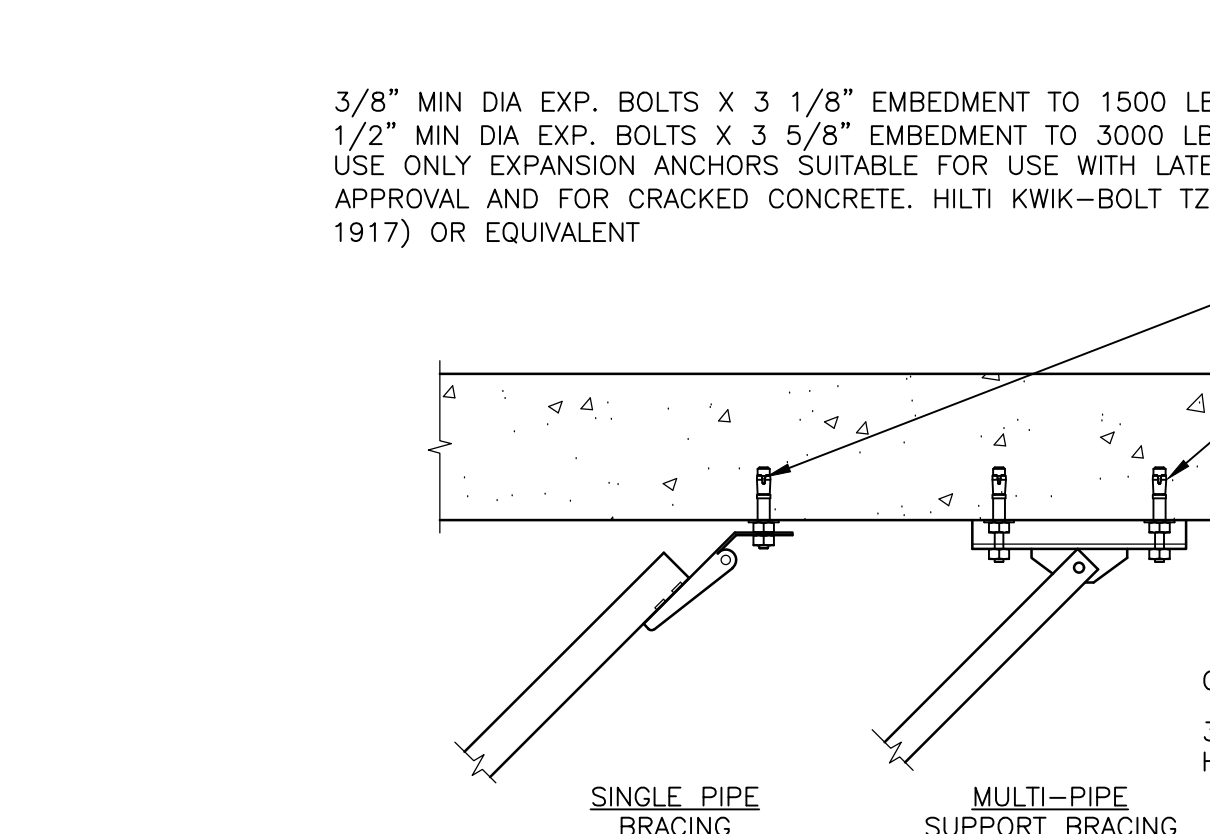
C1 TYPICAL CABINET FLOOR ANCHORAGE
NOT TO SCALE



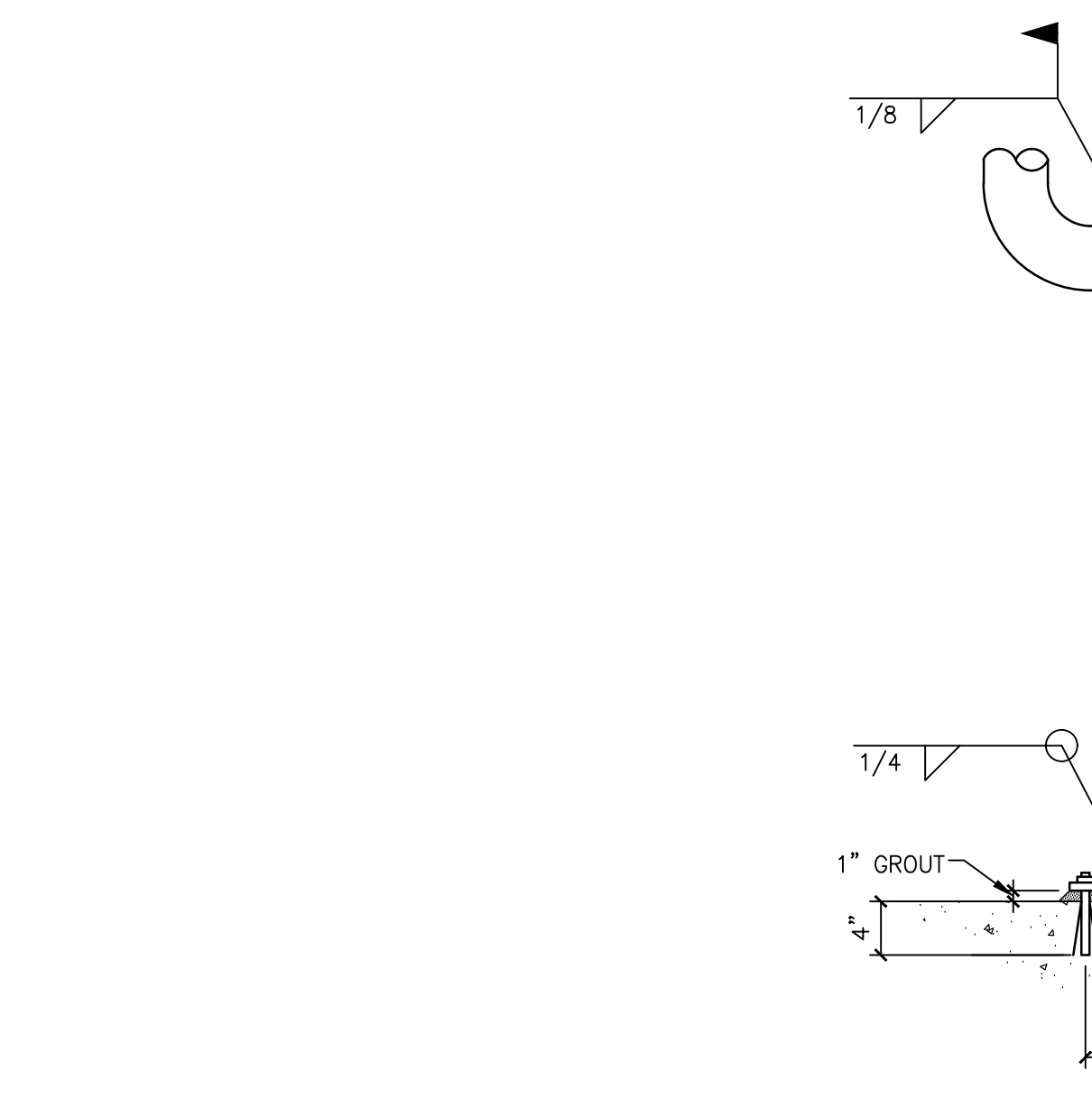
C2 TYPICAL FLOOR MOUNTED EQUIPMENT ANCHORAGE
NOT TO SCALE



E1 SECURING HANGER RODS/BRACES TO CONCRETE
NOT TO SCALE



F2 FLOOR BRACE
NOT TO SCALE



F7 SUSPENDED EQUIPMENT ANCHORAGE (BELOW BEAMS)
NOT TO SCALE

ADDENDUM 1	08-09-24
Revisions:	Date:

CONSULTANT

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STAMP

STATE OF KENTUCKY

DAVID R. WALTON

31109

PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title

EQUIPMENT BRACING AND ANCHORAGE DETAILS

Approved: Project Director

Phase

100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title

DESIGN REPLACE BOILER PLANT

Location

SIoux FALLS VAMC

SIoux FALLS, SD 57105

Issue Date

08-09-2024

Checked

TWW

Drawn

DRW

Project Number

438-22-900

Building Number

12

Drawing Number

SG006

SPREAD FOOTING SCHEDULE			
MARK	SIZE (WxLxT)	REINFORCING (EACH WAY)	NOTES
F1	4'-0"x4'-0"x2'-0"	(4)-#7 BOTTOM	1,2
F2	5'-0"x5'-0"x2'-0"	(5)-#7 BOTTOM	1,2
F3	6'-0"x6'-0"x2'-0"	(6)-#7 BOTTOM	1,2
F4	7'-0"x7'-0"x2'-0"	(8)-#7 T&B	1,2,3
F5	8'-0"x8'-0"x2'-0"	(8)-#7 T&B	1,2,3
F6	9'-0"x9'-0"x2'-0"	(9)-#8 T&B	1,2,3
F7	10'-0"x10'-0"x2'-0"	(10)-#8 T&B	1,2,3,4
F8	8'-0"x4'-0"x3'-0"	#8 T&B E.W.	1,2,3,4
F9	13'-0"x2'-0"x3'-0"	#8 T&B E.W.	1,2,3,4

NOTES:
 1. SEE PLANS AND DETAILS FOR TOP OF FOOTING ELEVATION.
 2. SEE DETAILS FOR CONFIGURATION OF REINFORCING.
 3. T&B INDICATES TOP AND BOTTOM REINFORCING MATS.
 4. CENTER FOOTING BETWEEN TWO COLUMNS IN BRACED FRAME AS SHOWN ON PLAN. REINFORCING AT 12" O.C. TOP AND BOTTOM, EACH WAY

CONTINUOUS FOOTING SCHEDULE			
MARK	SIZE (WxO)	REINFORCING	STIRRUPS
CF1	2'-3"x2'-0"	(4)-#6 CONT.	#3 AT 16" O.C.
CF2	2'-0"x2'-0"	(4)-#6 CONT.	#3 AT 16" O.C.
CF3	1'-6"x2'-0"	(4)-#6 CONT.	#3 AT 16" O.C.
CF4*	2'-3"x2'-0"	(4)-#6 CONT.	#3 AT 12" O.C.

NOTES:
 1. *CF4 STIRRUPS SHALL BE CLOSED WITH 135° HOOK WITH EXTENSION BEYOND HOOK MIN. 3" OR 6 x BAR DIAMETER.
 2. SEE DETAILS FOR CONFIGURATION OF REINFORCING.

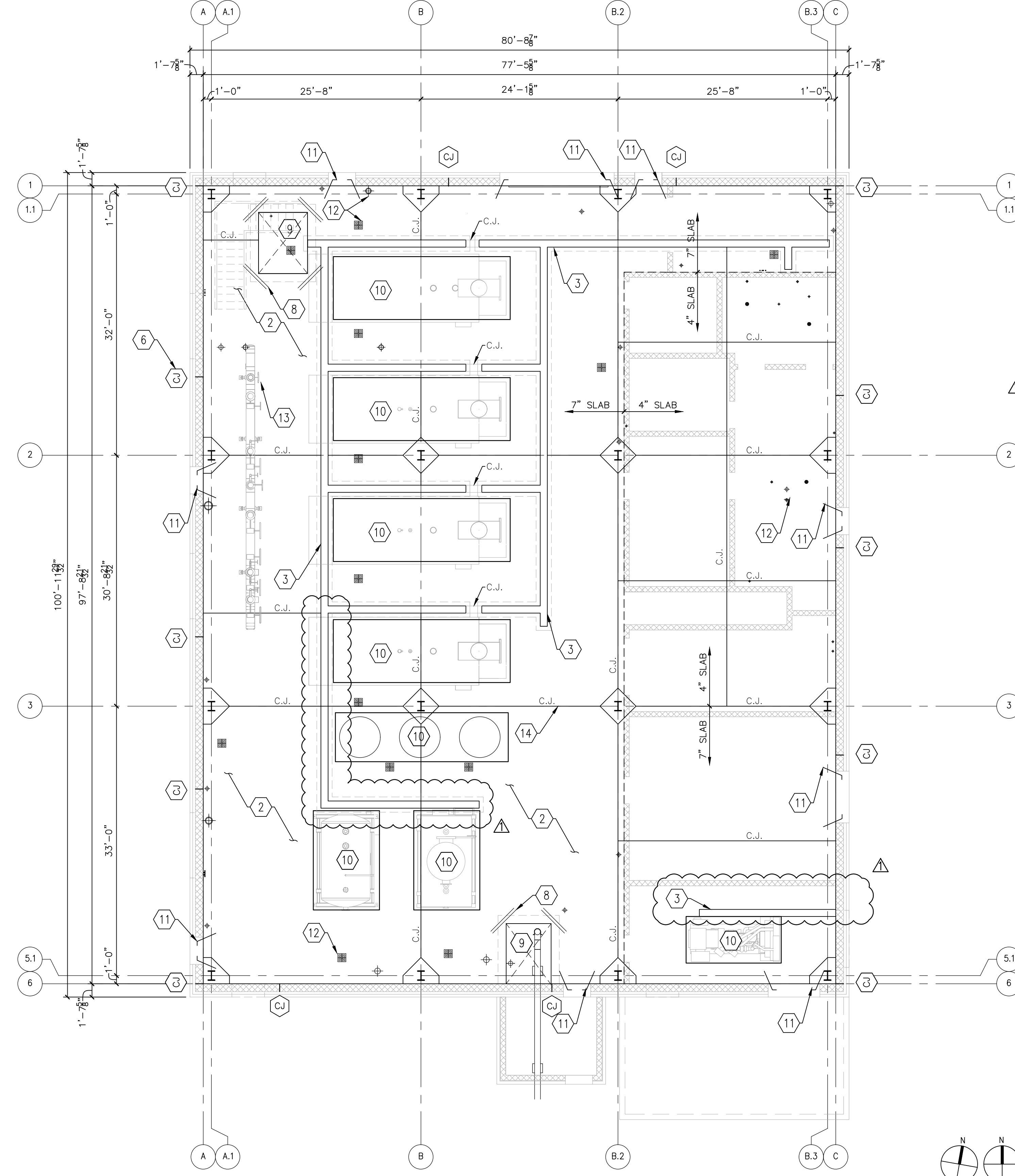
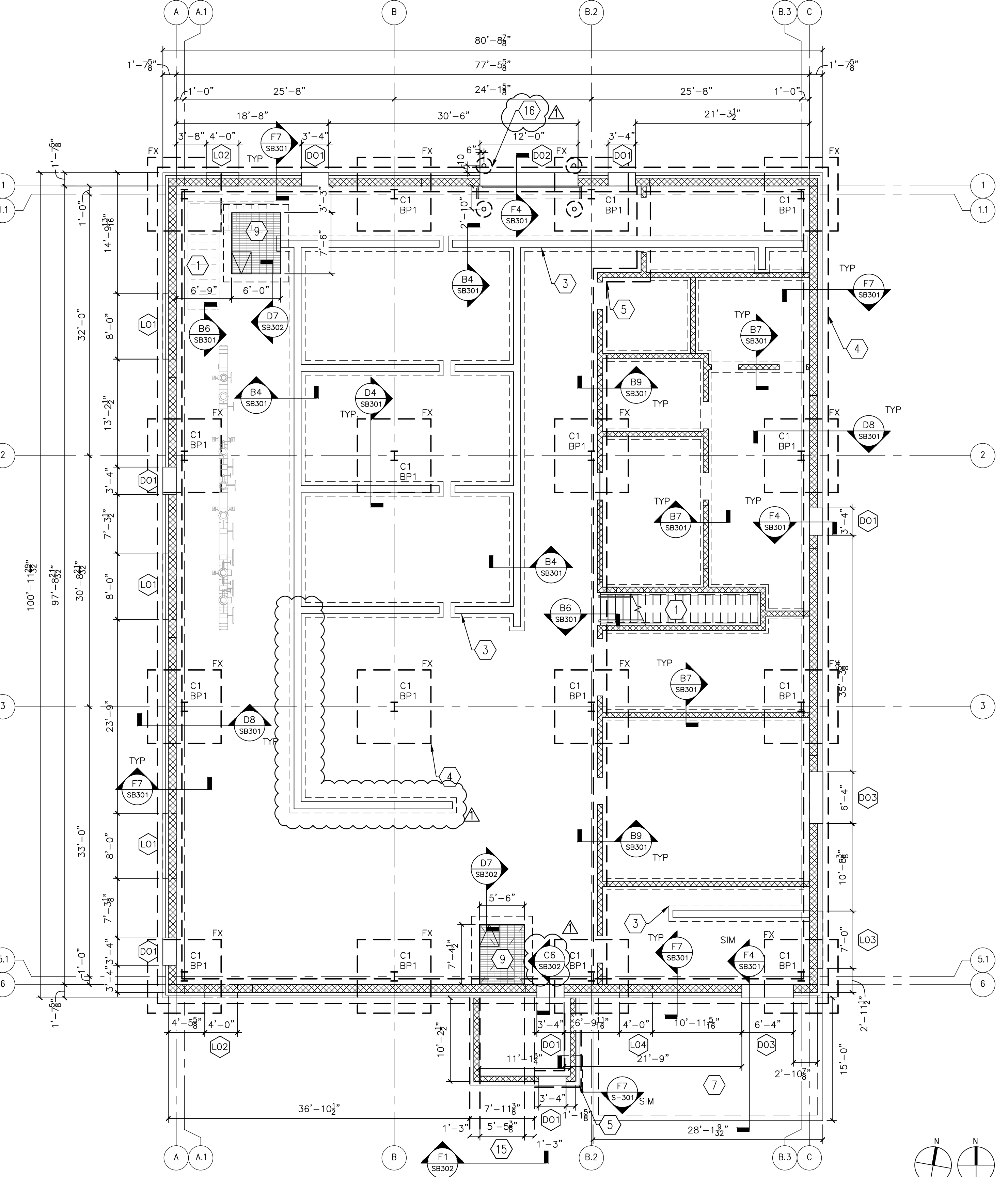
WALL OPENING SCHEDULE					
MARK	OPENING WIDTH	OPENING HEIGHT	BOTTOM ELEVATION	TOP ELEVATION	JAMB REINFORCING
DOOR OPENINGS - EXTERIOR, BLAST RATED, SEE SPECS					
DO1	3'-4"	7'-4"	0'-0"	7'-4"	
DO2	14'-0"	8'-8"	0'-0"	8'-8"	
DO3	6'-4"	7'-4"	0'-0"	7'-4"	
LOUVER OPENINGS - EXTERIOR, BLAST RATED, SEE SPECS					
LO1	8'-0"	8'-0"	1'-4"	9'-4"	
LO2	4'-0"	8'-0"	1'-4"	9'-4"	
LO3	7'-0"	7'-0"	2'-0"	9'-0"	
LO4	4'-0"	4'-0"	6'-0"	10'-0"	
LO5	8'-0"	8'-0"	16'-8"	24'-8"	
LO6	4'-0"	4'-0"	21'-0"	25'-0"	
LO7	4'-0"	8'-0"	16'-8"	24'-8"	
WINDOW OPENINGS - EXTERIOR, BLAST RATED, SEE SPECS					
WO1	3'-4"	8'-7 1/2"	12'-5 1/2"	21'-1"	

NOTES:
 1. SEE ARCH ELEVATIONS FOR ADDITIONAL INFORMATION ON OPENINGS IN WALLS
 2. SEE SE201 ELEVATIONS FOR CONFIGURATION OF REINFORCING IN ADDITION TO TYPICAL REINFORCING CALLED OUT FOR WALLS.
 3. ENVELOPE BLAST RATING MINIMUM REQUIREMENTS FOR DESIGN/CERTIFICATION OF COMPONENTS LOADING SHALL BE MIN. 13.44 PSI AT 50.78 PSI-MSEC.
 4. WINDOWS SHALL BE LAMINATED AND DESIGNED FOR BLAST LOADING, IF IGU SYSTEMS ARE USED, ONLY THE INNER PANE SHALL BE LAMINATED, MIN 1/4" PANE THICKNESS.
 5. WINDOW AND DOOR FRAMES AND ANCHORAGE SHALL BE DESIGNED FOR COLLECTED BLAST LOADING INDICATED IN NOTE 3.

MARKS AND SYMBOLS LEGEND	
	SECTION MARK SHEET NUMBER
	FOOTING DESIGNATION SEE SCHEDULE THIS SHEET
	INDICATES FOOTING STEP SEE DETAIL F1/S6005
	INDICATES CONCRETE WALL
	INDICATES CONTINUOUS FOOTING. SEE SCHEDULE THIS SHEET.
	INDICATES EXISTING GRID
	INDICATES NEW GRID
	INDICATES CONTROL/CONST. JOINT. SEE DETAIL F7/S6005
	INDICATES STEEL COLUMN AND BASEPLATE SIZE SEE C1/S6005 FOR BASEPLATES
	INDICATES SLAB/F.F.E. STEP

- ### LIGHT GAGE WALL FRAMING NOTES
- SEE SHEET S6003 AND FOUNDATION AND FRAMING DETAILS FOR BLAST RESISTANT EXTERIOR LIGHT GAGE WALL FRAMING INFORMATION AND DETAILS. ALL EXTERIOR WALLS SHALL CONFORM TO THE REQUIREMENTS SHOWN ON SHEET S6003. BLAST RESISTANT INTERIOR AND EXTERIOR WINDOWS AND DOOR FRAMES AND THEIR ATTACHMENTS SHALL BE CAPABLE OF RESISTING BLAST IMPULSE LOADING ON THIS SHEET.
 - AT TYPICAL INTERIOR PARTITION WALLS WITH NO ATTACHED WALL-MOUNTED EQUIPMENT OR CABINETS, REFER TO TYPICAL DETAIL F4/S6004 FOR MINIMUM REQUIRED FRAMING AND ATTACHMENT INFORMATION. REFER TO ARCHITECTURAL DRAWINGS FOR ACTUAL REQUIRED WALL FRAMING THICKNESS (3 5/8" MIN. FOR ALL WALLS EXCEPT FURRING WALLS). REFER TO ARCHITECTURAL AND MEP DRAWINGS FOR ADDITIONAL COORDINATION OF EQUIPMENT AND CABINETS SHOWN TO BE MOUNTED TO WALLS NOT SHOWN THIS PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WALL FRAMING PER DETAILS F1/S6004, F2/S6004 AND B1/S6004 FOR FRAMING OF WALLS AT LOCATIONS WHERE EQUIPMENT AND CABINETS ARE TO BE MOUNTED WHERE NOT SPECIFICALLY SHOWN THIS SHEET.
 - WHERE CABINETS ARE TO BE MOUNTED TO WALLS, REFER TO DETAIL F2/S6004 FOR MINIMUM REQUIRED FRAMING AND ATTACHMENT INFORMATION. REFER TO ARCHITECTURAL DRAWINGS FOR ACTUAL REQUIRED WALL FRAMING THICKNESS (3 5/8" MIN). DASHED LINE INDICATES APPROXIMATE EXTENTS OF SUPPORT FRAMING WITH GREATER REQUIREMENTS THAN TYPICAL WALL FRAMING, REFER TO DETAILS FOR MORE INFORMATION.
 - WHERE EQUIPMENT AND WALL-MOUNTED SINKS ARE TO BE MOUNTED TO WALLS, REFER TO DETAIL F1/S6004 FOR MINIMUM REQUIRED FRAMING AND ATTACHMENT INFORMATION. REFER TO ARCHITECTURAL DRAWINGS FOR ACTUAL REQUIRED WALL FRAMING THICKNESS (3 5/8" MIN). DASHED LINE INDICATES APPROXIMATE EXTENTS OF SUPPORT FRAMING WITH GREATER REQUIREMENTS THAN TYPICAL WALL FRAMING, REFER TO DETAILS FOR MORE INFORMATION.
 - PARTIAL HEIGHT WALLS AND COUNTERTOP STATION FACE WALLS SHALL HAVE SUPPORTING STRUCTURE PER DETAIL C2/S6004 AT ENDS OF WALLS AND AT 48" O.C. MAX.
 - ANY WALL MOUNTED TOILETS SHALL HAVE FULL HEIGHT STEEL FRAME WALL CARRIERS AND SHALL NOT BE MOUNTED TO WALL FRAMING, REFER TO PLUMBING DRAWINGS AND SPECIFICATIONS FOR TOILET INFORMATION.

- ### GENERAL NOTES
- GROUND FINISHED FLOOR ASSUMED ELEVATION = 100'-0" (4754.87') ALL ELEVATIONS ARE BASED ON THIS DATUM UNLESS NOTED OTHERWISE.
 - SEE SHEET S6001 AND S6002 FOR GENERAL NOTES AND DESIGN LOADS.
 - SEE SHEETS SB301 AND SB302 FOR FOUNDATION DETAILS.
 - COORDINATE LIMITS AND LOCATION OF VENEER WITH ARCHITECTURAL DRAWINGS. DIMENSIONS SHOWN TO OUTSIDE OF BUILDING ARE TO FACE OF BRICK, TYP.
 - SEE PLUMBING DRAWINGS FOR LOCATION OF FLOOR DRAINS AND DEPRESSED/SLOPED SLABS.
 - ALL FOOTINGS ARE CENTERED UNDER COLUMNS AT GRID INTERSECTIONS UNLESS NOTED OTHERWISE ON PLAN. FOOTINGS NOT CENTERED OR NOT SUPPORTING COLUMNS ARE LOCATED ON PLAN WITH DIMENSIONS FROM GRIDLINES.
 - SEE S6005 FOR BASEPLATE AND ANCHOR BOLT DIAGRAMS.
 - VERIFY ALL WALL OPENING AND INTERIOR WALL DIMENSIONS AND LOCATIONS WITH ARCHITECTURAL DRAWINGS.
 - SEE ARCH FOR CONTROL JOINT SPACING IN BRICK FACADE WHERE NOT SPECIFICALLY SHOWN THIS SHEET. BRICK JOINTS THIS SHEET ARE REQUIRED AS SHOWN IN ADDITION TO THOSE SHOWN ON ARCH DRAWINGS.
 - SEE SE201 FOR BUILDING STRUCTURE ELEVATIONS AND EXTERIOR WALL INFORMATION.
 - VERIFY ALL DIMENSIONS IN THE FIELD AND WITH EQUIPMENT SUPPLIER REQUIREMENTS FOR FULL COORDINATION OF MISC. SUPPORT AND FRAMING STEEL AND OTHER STRUCTURAL ITEMS PRIOR TO FABRICATION. LOCATIONS OF SUPPORTS, HANGERS, ATTACHMENTS AND OTHER ITEMS WILL VARY ACCORDING TO EQUIPMENT SELECTED AND FINAL CONFIGURATION OF INSTALLED MEP SYSTEMS. SEE GENERAL NOTES ON S6001 AND S6002.
 - SEE C8/S6005 FOR HOUSEKEEPING OR EQUIPMENT MOUNTING PADS. REFER TO ARCH AND MEP DRAWINGS FOR SIZE AND LOCATION OF PADS.
 - REFER TO SHEET S6004 FOR TYPICAL INTERIOR NON-LOADBEARING LIGHT GAGE FRAMING DETAILS. REFER TO ARCHITECTURAL AND MEP DRAWINGS FOR ADDITIONAL COORDINATION OF EQUIPMENT AND CABINETS SHOWN TO BE MOUNTED TO WALLS NOT SPECIFICALLY SHOWN THIS PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WALL FRAMING PER DETAILS ON SHEET S6004 FOR FRAMING OF WALLS AT LOCATIONS WHERE ADDITIONAL EQUIPMENT AND CABINETS 20 LBS AND GREATER ARE TO BE MOUNTED UNDER THIS CONTRACT.
 - ONLY THOSE PORTIONS OF THE EXISTING STRUCTURE ARE SHOWN WHERE PERTINENT TO THE LOCATIONS OF SUPPORT FRAMING MODIFICATION OR ADDITION. DRAWINGS SHALL BE USED FOR LAYOUT RELATIVE TO THE EXISTING STRUCTURE, HOWEVER FIELD VERIFICATION OF FRAMING LOCATIONS IS REQUIRED BEFORE INSTALLATION OF ANY NEW FRAMING.
 - WHEN CORING THROUGH CONCRETE, CONTRACTOR SHALL PROVIDE GROUND PENETRATING RADAR OR OTHER MEANS OF SLAB OR OTHER STRUCTURAL COMPONENT REINFORCING LOCATION AND MARK SUCH LOCATIONS SO THAT NO EXISTING REINFORCING IS DAMAGED DURING INSTALLATION OF ANY NEW FASTENERS (POWER ACTUATED FASTENERS, SCREWS, BOLTS OR OTHER CONNECTORS), FLOOR SINKS DRAINS OR OTHER MEP SLAB PENETRATIONS TO TOP OF EXISTING FLOOR SLAB. ANY DAMAGED REINFORCING WILL REQUIRE STRUCTURAL REPAIRS AT THE CONTRACTOR'S EXPENSE.
 - SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR EXTERIOR CONCRETE WORK AT DOORS, SIDEWALKS, ETC.
 - BLAST RESISTANT EXTERIOR WINDOWS AND DOOR FRAMES AND THEIR ATTACHMENTS AND ANCHORAGE SHALL BE CAPABLE OF RESISTING IMPULSE LOADING OF 13.44 PSI AT 50.78 PSI-MSEC. SEE SE201 FOR MORE INFORMATION.
 - SEE CIVIL AND ARCHITECTURAL DRAWINGS FOR SITE RETAINING AND SCREEN WALL LOCATIONS. REFER TO SHEET SB302 FOR CONSTRUCTION DETAILS OF SITE WALLS AND OTHER STRUCTURES.
 - SEE F2/SB301 FOR FOOTING STEP AND DETAILING AROUND MEP PENETRATIONS THROUGH EXTERIOR WALL LOCATIONS.
 - DO NOT BACKFILL TUNNEL, BASEMENT OR BELOW GRADE WALLS UNTIL ALL WALLS, FRAMING, SLABS, AND BRACING ARE COMPLETED AT GRADE. STABILITY OF RETAINING WALLS IS CONTINGENT ON COMPLETION OF BRACES AND CONNECTION OF SLAB TO WALLS.
 - AT MEP PENETRATIONS THROUGH FOUNDATION FOOTINGS, SEE F2/SB301 WHERE CONFLICT ARISES BETWEEN PIPE/CONDUIT ELEVATION AND FOUNDATION REINFORCING.



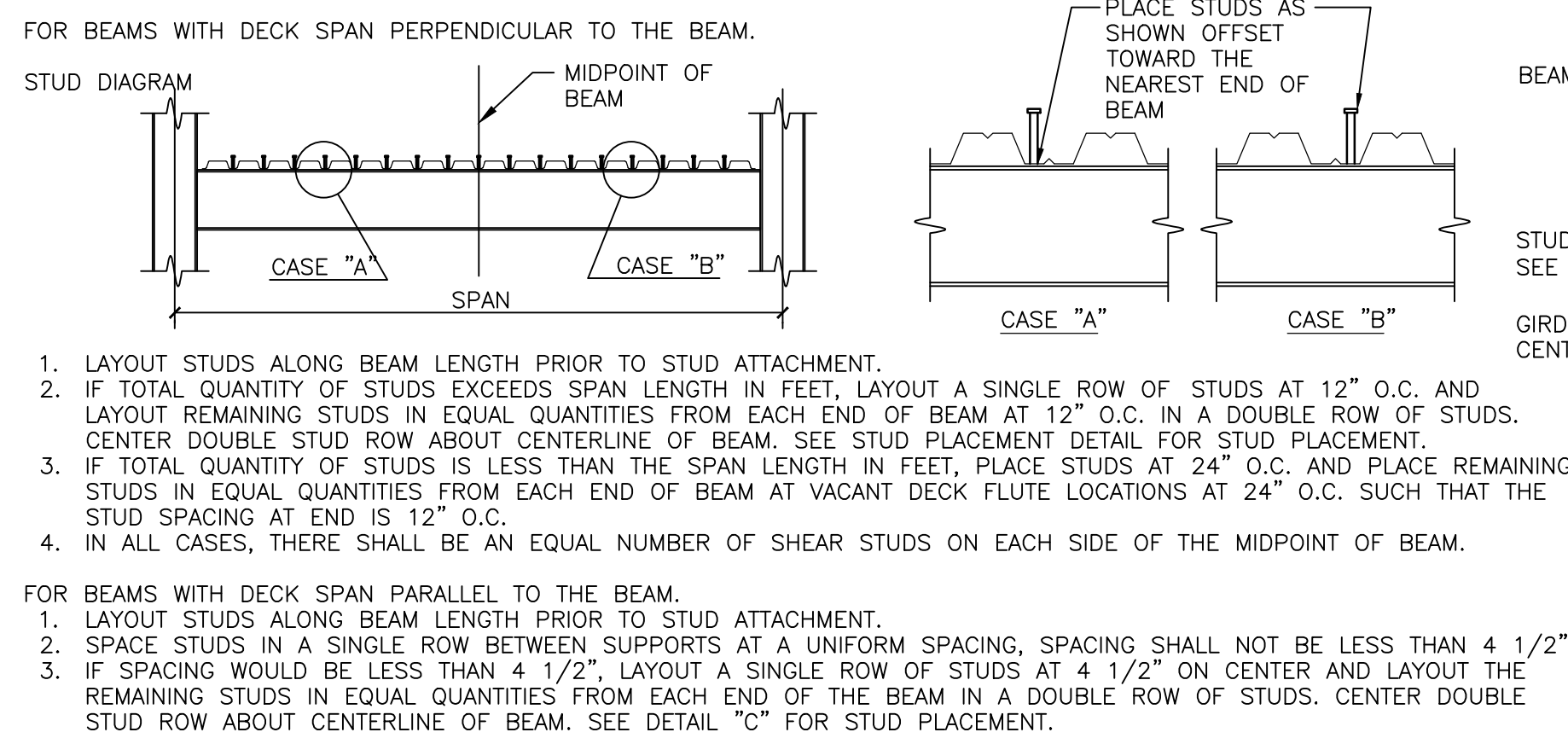
- ### KEY NOTES - FOUNDATION AND SLAB PLAN
- SEE ARCHITECTURAL DRAWINGS FOR STAIR PLANS AND DETAILS. STAIR FRAMING IS DELEGATED DESIGN SUBMITTAL. SEE SHEET S6002. SUPPORT LOWER STAIR AND CORNER LANDING FROM SLAB USING POSTS. MEZZANINE LEVEL FRAMING SHALL BE SUSPENDED FROM ROOF FRAMING. SEE FRAMING PLANS FOR MORE INFORMATION.
 - 7" SLAB-ON-GRADE REINFORCED WITH #4 AT 18" O.C. E.W. PLACED AT MID-SLAB OVER A 4" MIN. CLASS OVER 8" CLEAN CRUSHED STONE OVER PREPARED SUBGRADE AS SPECIFIED IN THE GEOTECHNICAL REPORT. REFER TO EQUIPMENT SUPPLIER FOR REQUIRED SPECIAL FLOOR FLATNESS AND LEVELNESS REQUIREMENTS BEYOND TYPICAL SPECIFICATION REQUIREMENTS FOR OTHER FLOOR AREAS. THE CONTRACTOR SHALL FOLLOW THE GEOTECHNICAL REPORT SUBGRADE PREPARATION REQUIREMENTS DUE TO THE EXISTING SOIL CONDITIONS ENCOUNTERED ON SITE. A GEOTECHNICAL REPRESENTATIVE SHALL BE RETAINED BY THE CONTRACTOR TO MONITOR AND APPROVE ALL FOUNDATION AND SUBGRADE PREPARATION.
 - SEE B4/SB301 FOR TRENCH CONSTRUCTION. COORDINATE LOCATION WITH MEP PIPING, SLOPE TRENCH BOTTOM TO DRAIN WHERE SHOWN ON PLUMBING PLANS.
 - T.O.F. EL. = 97'-4" TYPICAL AT INTERIOR COLUMN FOOTINGS UNLESS NOTED OTHERWISE.
 - SEE F3/S6005 FOR FOOTING AND WALL REINFORCING DETAILING AT CORNERS, TYP.
 - MANDATORY FULL HEIGHT CMU EXPANSION JOINT, SEE DETAILS ON SHEET S6003 AND CMU WALL REINFORCING ELEVATIONS ON SHEET SE201 FOR MORE INFORMATION. SEE ARCH FOR BRICK VENEER EXPANSION JOINT LOCATIONS NOT SHOWN THIS PLAN. INTERIOR WALL CMU CONTROL JOINTS SHALL BE SPACED AT 40' MAX, LOCATIONS AT DISCRETION OF CONTRACTOR.
 - SIDEWALK / STAIRS AND STOOP PADS, SEE DETAILS FOR SIZE AND INSTALLATION REQUIREMENTS.
 - SEE B6/S6005 FOR ADDITIONAL REINFORCING AROUND SLAB PENETRATIONS LARGER THAN 12"x12" OR WHERE TYPICAL SLAB REINFORCING IS INTERRUPTED, TYP.
 - ACCESS/PLUMBING PIT, SEE DETAILS. INSTALL STEEL GRATE WITH REMOVABLE ACCESS HATCH TO ACCESS PIT LADDER. GRATE SHALL HAVE 500 PSF / 3,000# WHEEL LOAD CAPACITY.
 - 8" REINFORCED CONCRETE EQUIPMENT PAD, SEE C8/S6005 FOR PAD DETAILS. PAD SHALL BE DOWELED TO SLAB PER DETAIL, BUT INSTALLED AS A COLD JOINT / SEPARATELY POURED PAD NOT INTEGRAL WITH BUILDING FLOOR SLAB. SEE EQUIPMENT SUPPLIER REQUIREMENTS FOR PAD DIMENSIONS. PAD SIZES SHOWN ARE FOR APPROXIMATE SIZE BIDDING PURPOSES ONLY AND VARY BY FINAL EQUIPMENT MODEL PROVIDED. GC TO COORDINATE FINAL PAD SIZE AND EXACT LOCATION. SEE C8/SB302.
 - AT DOORWAYS, ADD #5 HAIRPIN BARS EACH SIDE IN SLAB, SEE B7/S6005 AND FOUNDATION DETAILS REFERENCED, TYP.
 - SEE MECHANICAL AND PLUMBING FOR ALL FLOOR DRAINS AND SLAB PENETRATIONS TO BE PLACED AND PROTECTED BEFORE POURING SLAB.
 - STEAM HEADER SUPPORTED FROM FLOOR SLAB WITH STEEL PIPE STANDS, SEE MECHANICAL DRAWINGS. ANCHORS SHALL BE DRILLED AND EPOXIED.
 - SLAB CONTROL JOINT / CONSTRUCTION JOINT, TYP. CONSTRUCTION JOINTS TO BE APPROVED BY GC PROPOSED SLAB POUR SCHEDULING SUBMITTAL.
 - STEAM TUNNEL, SEE MECHANICAL AND CIVIL FOR EXTENTS. SEE SB302 FOR DETAILS.
 - SEE F7/SB302 FOR BOLLARD INSTALLATION DETAILS, TYP.
- GENERAL ADD1 NOTES:
 ADDED TYP WHERE APPLICABLE TO NOTES AND DETAIL FOR CLARITY.
 ADDED KEYNOTE CALL-OUTS TO TYP. ITEMS FOR CLARITY

ADDENDUM 1	08-09-24	CONSULTANT	ARCHITECT/ENGINEER OF RECORD	STAMP	Office of Construction and Facilities Management	Drawing Title	Phase	Project Title	Project Number
					U.S. Department of Veterans Affairs	FOUNDATION AND SLAB PLANS	100% CONSTRUCTION DOCUMENTS	DESIGN REPLACE BOILER PLANT	438-22-900
Revisions:	Date:	1808 DEEP CREEK RD, OKC, OK 73131 918.527.7166 INFO@MOONTREELLC.COM	200 Envoy Circle, Suite 201, Louisville KY 40299 - www.paradigmusa.com			Approved: Project Director	FULLY SPRINKLERED	SIoux FALLS VAMC SIoux FALLS, SD 57005	Building Number 12
								Issue Date 08-09-2024	Checked TWW
								Drawn DRW	Drawing Number SB101

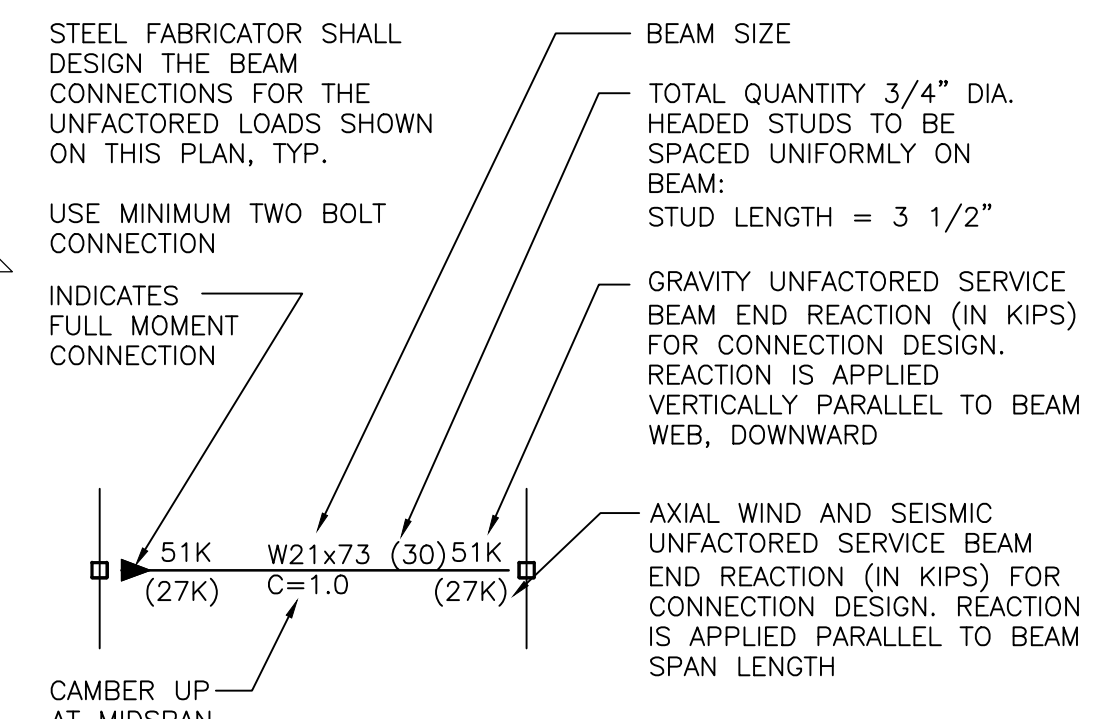
MARKS AND SYMBOLS LEGEND

	SECTION MARK SHEET NUMBER
	INDICATES EXISTING GRID
	INDICATES NEW GRID
	INDICATES SLAB/F.F.E. STEP
	INDICATES MOMENT CONNECTION BEAM TO COLUMN

COMPOSITE BEAM NOTES AND DETAILS



COMPOSITE BEAM LEGEND



COMPOSITE DECK ATTACHMENT

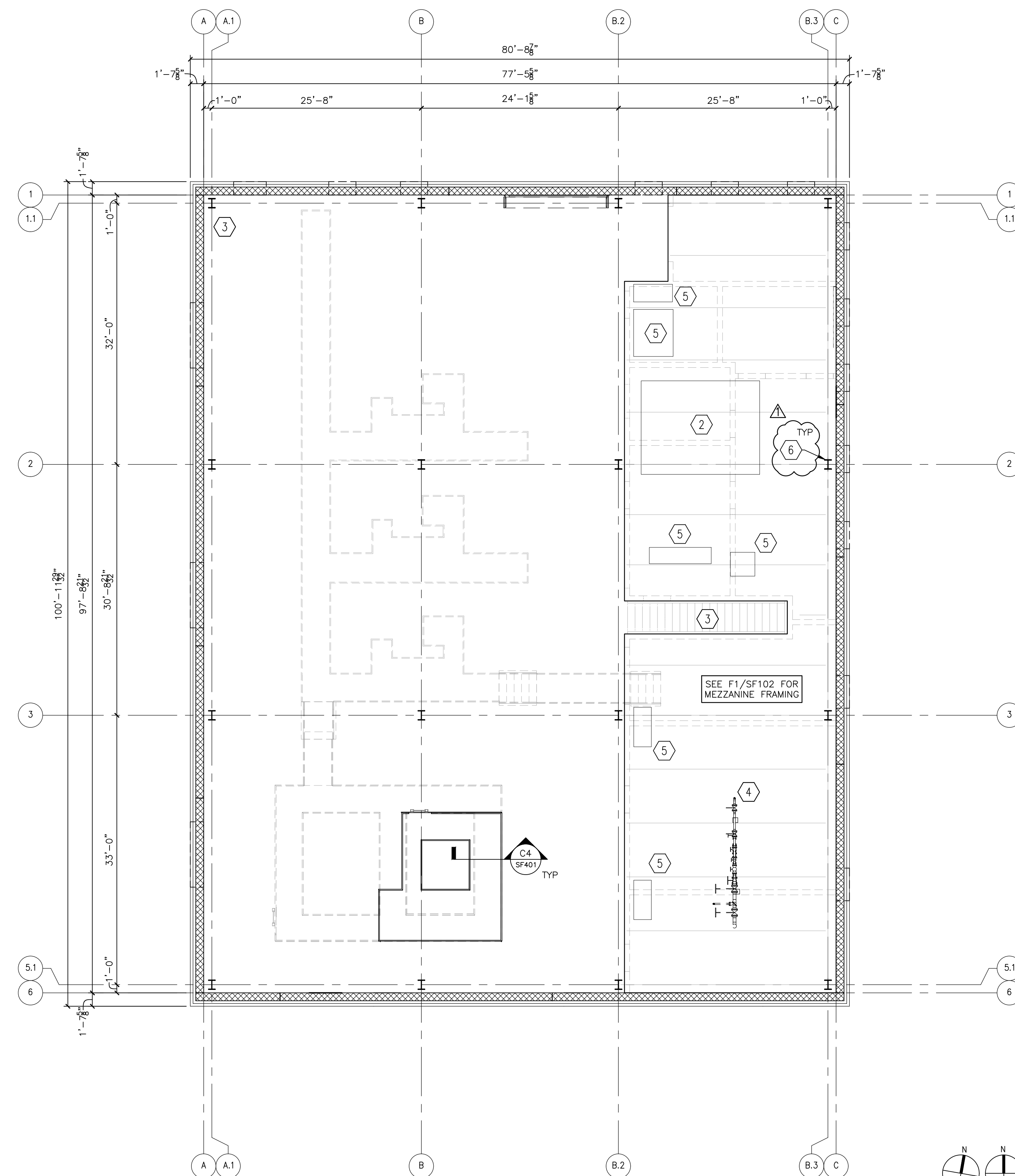
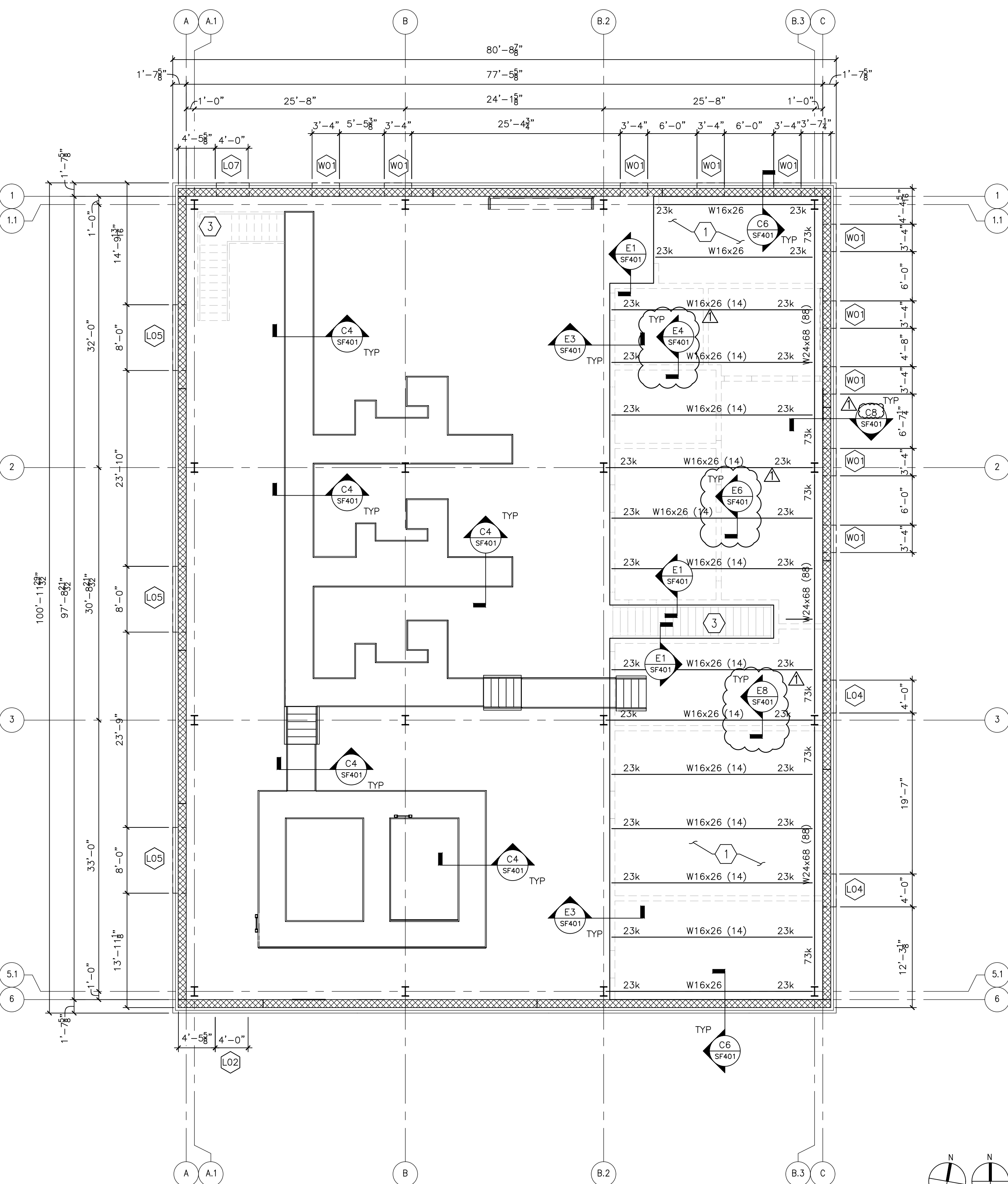
- DECK PERPENDICULAR TO SUPPORT - (4)-5/8" DIA. PUDDLE WELDS PER SHEET.
- DECK PARALLEL TO SUPPORT - 5/8" DIA. PUDDLE WELDS AT 12" O.C. (24" O.C. MAX.)
- SIDLAP - 3/8"x1 1/4" ARC SEAM WELDS AT 24" O.C. U.N.O.
- DECK SHALL BE CONTINUOUS OVER (3) SUPPORTS. U.N.O.

GENERAL NOTES

- GROUND FINISHED FLOOR ASSUMED ELEVATION = 100'-0" (454.87') ALL ELEVATIONS ARE BASED ON THIS DATUM UNLESS NOTED OTHERWISE.
- SEE SHEET SG001 AND SG002 FOR GENERAL NOTES AND DESIGN LOADS.
- SEE SHEETS SF401, SF402, AND SF403 FOR FRAMING DETAILS.
- COORDINATE LIMITS AND LOCATION OF VENEER WITH ARCHITECTURAL DRAWINGS. DIMENSIONS SHOWN TO OUTSIDE OF BUILDING ARE TO FACE OF BRICK, TYP.
- SEE PLUMBING DRAWINGS FOR LOCATION OF FLOOR DRAINS AND DEPRESSED/SLOPED SLABS.
- VERIFY ALL WALL OPENING AND INTERIOR WALL DIMENSIONS AND LOCATIONS WITH ARCHITECTURAL DRAWINGS.
- VERIFY ALL DIMENSIONS IN THE FIELD AND WITH EQUIPMENT SUPPLIER REQUIREMENTS FOR FULL COORDINATION OF MISC. SUPPORT AND FRAMING STEELS AND OTHER STRUCTURAL ITEMS PRIOR TO FABRICATION. LOCATIONS OF SUPPORTS, HANGERS, ATTACHMENTS AND OTHER ITEMS WILL VARY ACCORDING TO EQUIPMENT SELECTED AND FINAL CONFIGURATION OF INSTALLED MEP SYSTEMS. SEE GENERAL NOTES ON SG001 AND SG002.
- SEE CB/SG005 FOR HOUSEKEEPING OR EQUIPMENT MOUNTING PADS. REFER TO ARCH AND MEP DRAWINGS FOR SIZE AND LOCATION OF PADS.
- REFER TO SHEET S004 FOR TYPICAL INTERIOR NON-LOADBEARING LIGHT GAGE FRAMING DETAILS. REFER TO ARCHITECTURAL AND MEP DRAWINGS FOR ADDITIONAL COORDINATION OF EQUIPMENT AND CABINETS SHOWN TO BE MOUNTED TO WALLS NOT SPECIFICALLY SHOWN THIS PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WALL FRAMING PER DETAILS ON SHEET S004 FOR FRAMING OF WALLS AT LOCATIONS WHERE ADDITIONAL EQUIPMENT AND CABINETS 20 LBS AND GREATER ARE TO BE MOUNTED UNDER THIS CONTRACT.
- ONLY THOSE PORTIONS OF THE EXISTING STRUCTURE ARE SHOWN WHERE PERTINENT TO THE LOCATIONS OF SUPPORT FRAMING MODIFICATION OR ADDITION. DRAWINGS SHALL BE USED FOR LAYOUT RELATIVE TO THE EXISTING STRUCTURE, HOWEVER FIELD VERIFICATION OF FRAMING LOCATIONS IS REQUIRED BEFORE INSTALLATION OF ANY NEW FRAMING.
- WHEN CORING THROUGH CONCRETE, CONTRACTOR SHALL PROVIDE GROUND PENETRATING RADAR OR OTHER MEANS OF SLAB OR OTHER STRUCTURAL COMPONENT REINFORCING LOCATION AND MARK SUCH LOCATIONS SO THAT NO EXISTING REINFORCING IS DAMAGED DURING INSTALLATION OF ANY NEW FASTENERS (POWER ACTUATED FASTENERS, SCREWS, BOLTS OR OTHER CONNECTORS), FLOOR SINKS DRAINS OR OTHER MEP SLAB PENETRATIONS TO TOP OF BOTTOM OF EXISTING FLOOR SLAB. ANY DAMAGED REINFORCING WILL REQUIRE STRUCTURAL REPAIRS AT THE CONTRACTORS EXPENSE.
- SEE COMPOSITE BEAM NOTES AND DETAILS THIS SHEET FOR SHEAR STUDS AND DECK ATTACHMENT TO FRAMING MEMBERS AND DECK FASTENER TYPE, SIZE, AND SPACING.
- VERIFY ALL OPENINGS FOR MECHANICAL SHAFTS, STAIRS, ETC. WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. SEE C2/SF402 FOR TYPICAL FLOOR OPENINGS LESS THAN 24". SEE C9/SF402 FOR TYPICAL AND GENERAL COMPOSITE BEAM FRAMING DETAILS.

KEY NOTES

- 3" LIGHTWEIGHT CONCRETE ON VULCRAFT GALVANIZED 2" 20GA VLI COMPOSITE METAL DECK. TOTAL SLAB THICKNESS = 5". SEE SF104 FOR COMPOSITE FLOOR SLAB REINFORCING.
- 6" REINFORCED CONCRETE EQUIPMENT PAD. SEE CB/SG005 FOR PAD DETAILS. PAD SHALL BE DOWELED TO SLAB PER DETAIL, BUT INSTALLED AS A COLD JOINT / SEPARATELY POURED PAD NOT INTEGRAL WITH BUILDING MEZZANINE SLAB. SEE EQUIPMENT SUPPLIER REQUIREMENTS FOR PAD DIMENSIONS. PAD SIZES SHOWN ARE FOR APPROXIMATE SIZE BIDDING PURPOSES ONLY AND VARY BY FINAL EQUIPMENT MODEL PROVIDED. GC TO COORDINATE FINAL PAD SIZE AND EXACT LOCATION. SEE CB/SB302.
- SEE ARCHITECTURAL DRAWINGS FOR STAIR PLANS AND DETAILS. STAIR FRAMING IS DELEGATED DESIGN SUBMITTAL. SEE SHEET SG002 AND SB101 FOR MORE INFORMATION.
- STEAM HEADER SUPPORTED FROM MEZZANINE FLOOR SLAB WITH STEEL PIPE STANDS. SEE MECHANICAL DRAWINGS. ANCHORS SHALL BE DRILLED AND EPOXIED.
- 4" REINFORCED CONCRETE EQUIPMENT PAD. SEE CB/SG005 FOR PAD DETAILS. PAD SHALL BE DOWELED TO SLAB PER DETAIL, BUT INSTALLED AS A COLD JOINT / SEPARATELY POURED PAD NOT INTEGRAL WITH BUILDING MEZZANINE SLAB. SEE EQUIPMENT SUPPLIER REQUIREMENTS FOR PAD DIMENSIONS. PAD SIZES SHOWN ARE FOR APPROXIMATE SIZE BIDDING PURPOSES ONLY AND VARY BY FINAL EQUIPMENT MODEL PROVIDED. GC TO COORDINATE FINAL PAD SIZE AND EXACT LOCATION. SEE CB/SB302.
- SEE E9/SF402 FOR DECK BEARING SUPPORTS AT COLUMNS, TYP.



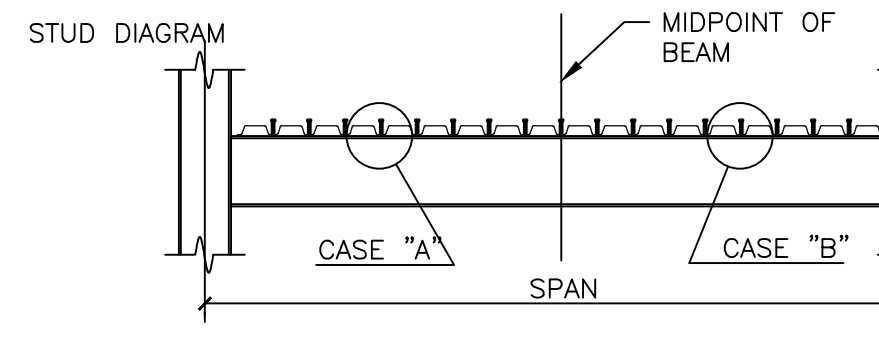
F1 MEZZANINE AND CATWALK FRAMING PLAN
1/8" = 1'-0"

F5 MEZZANINE SLAB AND UPPER CATWALK FRAMING PLAN
1/8" = 1'-0"

<p>ADDENDUM 1</p> <p>08-09-24</p> <p>CONSULTANT</p> <p>MOON TREE CONSULTING</p> <p>1808 DEEP CREEK RD, OKC, OK 73131 918.527.7166 INFO@MOONTREELLC.COM</p>	<p>ARCHITECT/ENGINEER OF RECORD</p> <p>paradigm</p> <p>Architecture Engineering Design-Build</p> <p>200 Envoy Circle, Suite 201, Louisville KY 40299 - www.paradigmusa.com</p>	<p>STAMP</p> <p>STATE OF KENTUCKY</p> <p>DAVID R. WALTON</p> <p>31109</p> <p>PROFESSIONAL ENGINEER</p>	<p>Office of Construction and Facilities Management</p> <p>VA U.S. Department of Veterans Affairs</p>	<p>Drawing Title</p> <p>MEZZANINE AND CATWALK FRAMING PLANS</p> <p>Approved: Project Director</p>	<p>Phase</p> <p>100% CONSTRUCTION DOCUMENTS</p> <p>FULLY SPRINKLERED</p>	<p>Project Title</p> <p>DESIGN REPLACE BOILER PLANT</p> <p>Location</p> <p>SIoux FALLS VAMC</p> <p>SIoux FALLS, SD 57005</p> <p>Issue Date</p> <p>08-09-2024</p> <p>Checked</p> <p>TWW</p> <p>Drawn</p> <p>DRW</p>	<p>Project Number</p> <p>438-22-900</p> <p>Building Number</p> <p>12</p> <p>Drawing Number</p> <p>SF102</p>
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COMPOSITE BEAM NOTES AND DETAILS

FOR BEAMS WITH DECK SPAN PERPENDICULAR TO THE BEAM.

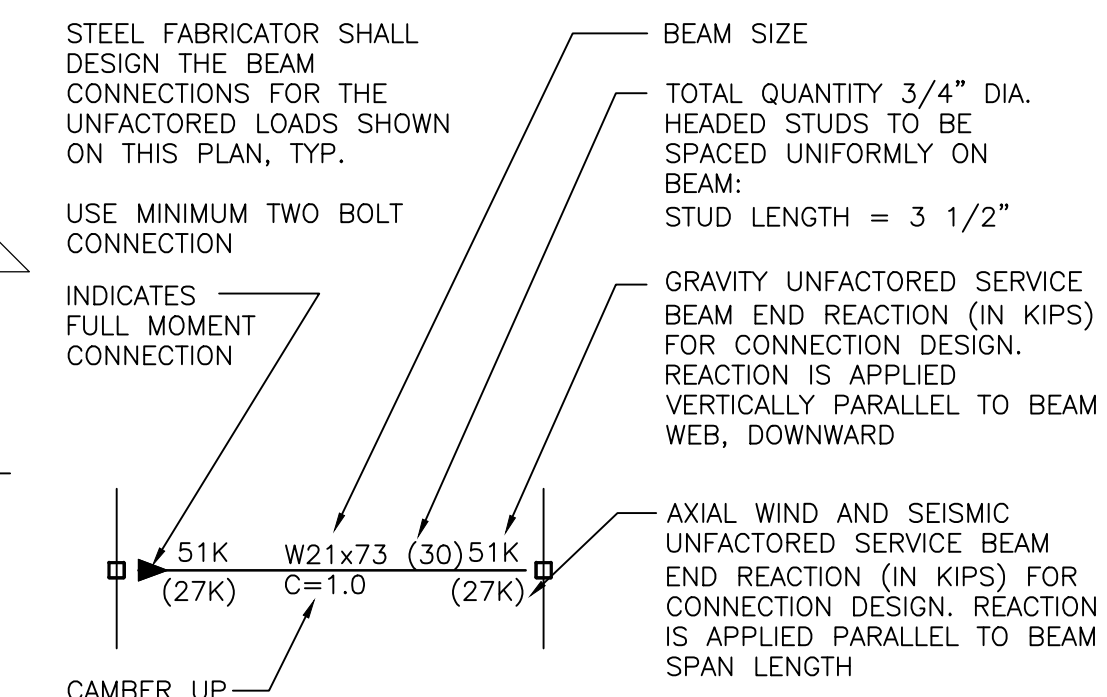


- LAYOUT STUDS ALONG BEAM LENGTH PRIOR TO STUD ATTACHMENT.
- IF TOTAL QUANTITY OF STUDS EXCEEDS SPAN LENGTH IN FEET, LAYOUT A SINGLE ROW OF STUDS AT 12" O.C. AND LAYOUT REMAINING STUDS IN EQUAL QUANTITIES FROM EACH END OF BEAM AT 12" O.C. IN A DOUBLE ROW OF STUDS.
- IF TOTAL QUANTITY OF STUDS IS LESS THAN THE SPAN LENGTH IN FEET, PLACE STUDS AT 24" O.C. AND PLACE REMAINING STUDS IN EQUAL QUANTITIES FROM EACH END OF BEAM AT VACANT DECK FLUTE LOCATIONS AT 24" O.C. SUCH THAT THE STUD SPACING AT END IS 12" O.C.
- IN ALL CASES, THERE SHALL BE AN EQUAL NUMBER OF SHEAR STUDS ON EACH SIDE OF THE MIDPOINT OF BEAM.

FOR BEAMS WITH DECK SPAN PARALLEL TO THE BEAM.

- LAYOUT STUDS ALONG BEAM LENGTH PRIOR TO STUD ATTACHMENT.
- SPACE STUDS IN A SINGLE ROW BETWEEN SUPPORTS AT A UNIFORM SPACING, SPACING SHALL NOT BE LESS THAN 4 1/2".
- IF SPACING WOULD BE LESS THAN 4 1/2", LAYOUT A SINGLE ROW OF STUDS AT 4 1/2" ON CENTER AND LAYOUT THE REMAINING STUDS IN EQUAL QUANTITIES FROM EACH END OF THE BEAM IN A DOUBLE ROW OF STUDS. CENTER DOUBLE STUD ROW ABOUT CENTERLINE OF BEAM. SEE DETAIL "C" FOR STUD PLACEMENT.

COMPOSITE BEAM LEGEND



COMPOSITE DECK ATTACHMENT

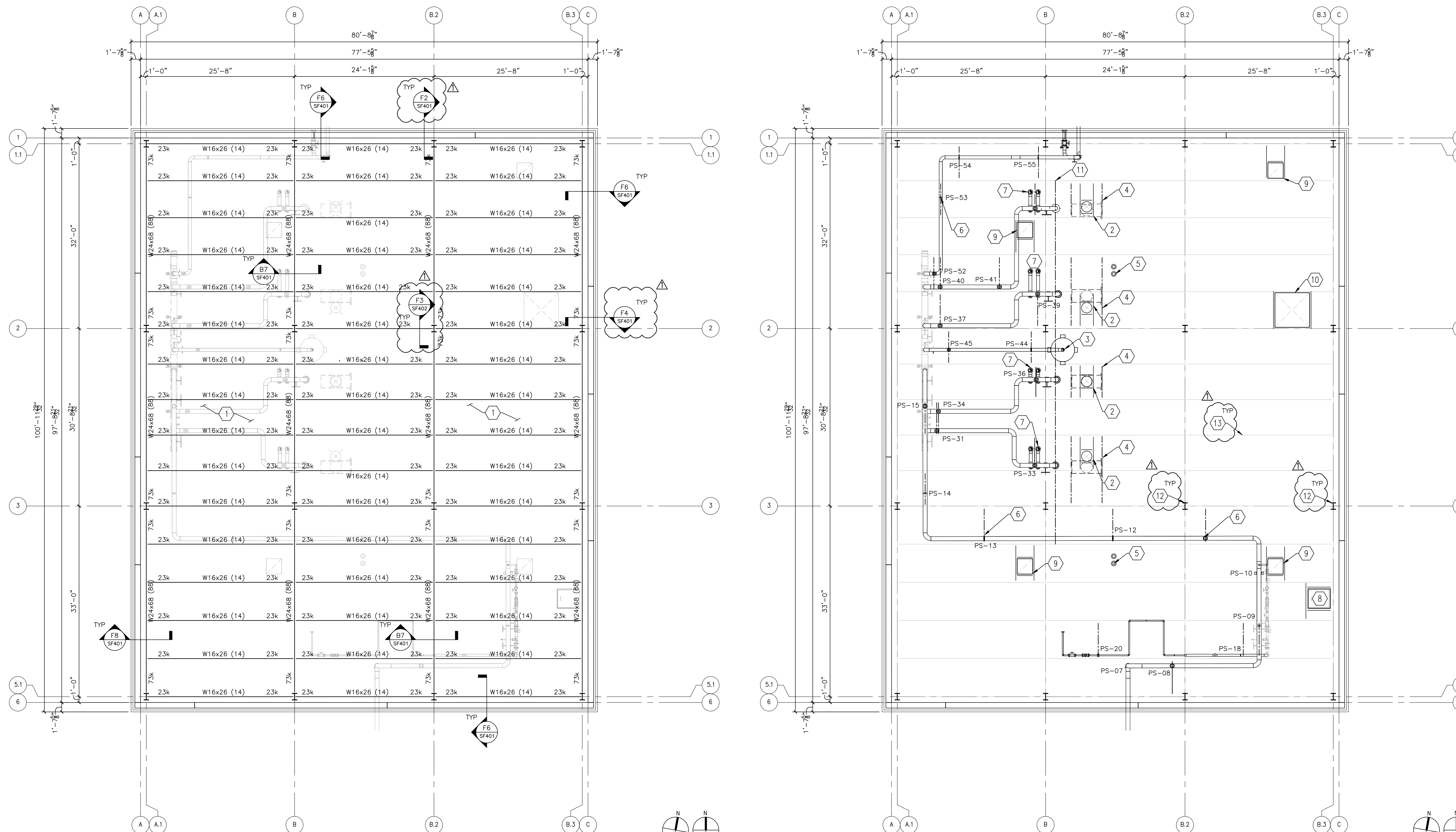
- DECK PERPENDICULAR TO SUPPORT - (4)-5/8" DIA. PUDDLE WELDS PER SHEET.
- DECK PARALLEL TO SUPPORT - 5/8" DIA. PUDDLE WELDS AT 12" O.C. (24" O.C. MAX.)
- SIDLAPS - 3/8"x1 1/4" ARC BEAM WELDS AT 24" O.C. U.N.O.
- DECK SHALL BE CONTINUOUS OVER (3) SUPPORTS. U.N.O.

GENERAL NOTES

- GROUND FINISHED FLOOR ASSUMED ELEVATION = 100'-0" (4754.87") ALL ELEVATIONS ARE BASED ON THIS DATUM UNLESS NOTED OTHERWISE.
- SEE SHEET SG001 AND SG002 FOR GENERAL NOTES AND DESIGN LOADS.
- SEE SHEETS SF401, SF402, AND SF403 FOR FRAMING DETAILS.
- COORDINATE LIMITS AND LOCATION OF VENEER WITH ARCHITECTURAL DRAWINGS. DIMENSIONS SHOWN TO OUTSIDE OF BUILDING ARE TO FACE OF BRICK, TYP.
- SEE ARCH FOR ROOF TAPER AND SLOPE REQUIREMENTS FOR DRAINAGE. ROOF SLAB IS FLAT ACROSS ENTIRE ROOF PLANE.
- VERIFY ALL WALL OPENING AND INTERIOR WALL DIMENSIONS AND LOCATIONS WITH ARCHITECTURAL DRAWINGS.
- VERIFY ALL DIMENSIONS IN THE FIELD AND WITH EQUIPMENT SUPPLIER REQUIREMENTS FOR FULL COORDINATION OF MISC. SUPPORT AND FRAMING STEEL AND OTHER STRUCTURAL ITEMS PRIOR TO FABRICATION. LOCATIONS OF SUPPORTS, HANGERS, ATTACHMENTS AND OTHER ITEMS WILL VARY ACCORDING TO EQUIPMENT SELECTED AND FINAL CONFIGURATION OF INSTALLED MEP SYSTEMS. SEE GENERAL NOTES ON SG001 AND SG002.
- ONLY THOSE PORTIONS OF THE EXISTING STRUCTURE ARE SHOWN WHERE PERTINENT TO THE LOCATIONS OF SUPPORT FRAMING MODIFICATION OR ADDITION. DRAWINGS SHALL BE USED FOR LAYOUT RELATIVE TO THE EXISTING STRUCTURE, HOWEVER FIELD VERIFICATION OF FRAMING LOCATIONS IS REQUIRED BEFORE INSTALLATION OF ANY NEW FRAMING.
- WHEN CORING THROUGH CONCRETE, CONTRACTOR SHALL PROVIDE GROUND PENETRATING RADAR OR OTHER MEANS OF SLAB OR OTHER STRUCTURAL COMPONENT REINFORCING LOCATION AND MARK SUCH LOCATIONS SO THAT NO EXISTING REINFORCING IS DAMAGED DURING INSTALLATION OF ANY NEW FASTENERS (POWER ACTUATED FASTENERS, SCREWS, BOLTS OR OTHER CONNECTORS), FLOOR SINKS DRAINS OR OTHER MEP SLAB PENETRATIONS TO TOP OF BOTTOM OF EXISTING FLOOR SLAB, ANY DAMAGED REINFORCING WILL REQUIRE STRUCTURAL REPAIRS AT THE CONTRACTORS EXPENSE.
- SEE COMPOSITE BEAM NOTES AND DETAILS THIS SHEET FOR SHEAR STUDS AND DECK ATTACHMENT TO FRAMING MEMBERS AND DECK FASTENER TYPE, SIZE, AND SPACING.
- SEE SHEET SF104 FOR COMPOSITE FLOOR SLAB REINFORCING FOR THIS LEVEL, INCLUDING ADDITIONAL REQUIREMENTS FROM THE VA PHYSICAL SECURITY DESIGN MANUAL FOR TIE-FORCE METHOD TO MINIMIZE PROGRESSIVE COLLAPSE POTENTIAL.
- VERIFY ALL OPENINGS FOR MECHANICAL SHAFTS, STAIRS, ETC. WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. SEE C2/SF402 FOR TYPICAL FLOOR OPENINGS LESS THAN 24". SEE C9/SF402 FOR TYPICAL FLOOR OPENINGS GREATER THAN 24".

KEY NOTES

- 3" LIGHTWEIGHT CONCRETE ON VULCRAFT GALVANIZED 20GA WU COMPOSITE METAL DECK. TOTAL SLAB THICKNESS = 5". SEE SF104 FOR COMPOSITE SLAB REINFORCING.
- BOILER EXHAUST STACK ROOF PENETRATION. SEE NOTE L FOR FRAMING AROUND SLAB ON DECK OPENINGS AND UTILIZE DETAIL C9/SF402 FOR THESE STACK OPENINGS. COORDINATE SIZE AND LOCATION OF ALL MECHANICAL OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. NOTE OFFSET FROM VERTICAL LOWER STACK AND ECONOMIZER BELOW TO AVOID MAIN BEAMS - SEE ARCHITECTURAL FOR PIPE BRACING - SEE B9/SF401 FOR GUY WIRE BRACING BASE CONNECTIONS TO STRUCTURE.
- 8" PIPE STEAM HEADER PRESSURE RELIEF PIPE PENETRATION OPENING CORE DRILLED THROUGH SLAB AND DECK. SEE MEP FOR PIPE AND SILENCER INFORMATION. PROVIDE FABRICATED STEEL SUPPORT FRAME FOR SILENCER TO BOLT TO ROOF SLAB. INCLUDE IN BID FOR POSSIBLE GUY WIRE BRACING AT TOP OF SILENCER AND POST-INSTALLED WIRE ANCHORAGE AND BRACKETS AT ROOF SLAB FRAME AND ANCHORAGE BY SILENCER SUPPLIER (SEE B9/SF401 FOR GUY WIRE BRACING BASE CONNECTIONS TO STRUCTURE).
- STEAM BOILER ECONOMIZER AND UPPER SECTION OF EXHAUST STACK PIPE PENETRATION TO BE SUPPORTED BY HANGER RODS LOCATED IN COORDINATION WITH ECONOMIZER SUPPORT BRACKETS PER SUPPLIER. PROVIDE W8x10 BELOW MAIN ROOF BEAMS AND BOLTED TO BOTTOM FLANGE OF MAIN ROOF BEAMS. HANGER RODS SHOULD BE DRILLED THROUGH BOTTOM FLANGE OF W8x10 AND SUPPORTED BY HEAVY WASHERS AND DOUBLE HEX NUTS INSTEAD OF USING BEAM HANGER CLAMPS.
- ROOF DRAIN OPENING CORE DRILLED THROUGH SLAB AND DECK. SEE ARCH FOR ROOF DRAIN DETAIL AND PLUMBING FOR PIPE CONNECTIONS AND SUPPORT. SEE GENERAL SHEET NOTE L AND DETAIL C2/SF402 FOR ADDITIONAL SUPPORT AT SMALL OPENINGS.
- SUSPENDED MECHANICAL PIPE HANGER LOCATIONS. SEE MECHANICAL FOR HANGER TYPE AND LOAD. SEE DETAILS FOR FRAMING SUPPORT OF HANGER LOADS. WHERE NO ADDITIONAL INTERMEDIATE SUPPORT STEEL IS SHOWN, HANGER LOADS ARE LESS THAN 250# AND CAN BE SUSPENDED VIA THREADED ROD TITEN HD HANGER COUPLER BOLT INSTALLED IN BOTTOM OF STRUCTURAL SLAB/DECK OR VIA BOTTOM FLANGE HANGER CLAMP. SEE BOLT AND DECK SUPPLIER LITERATURE FOR SPACING/DISTANCE REQUIREMENTS FROM LOWER DECK FLUTE EDGES. MOST MEP PIPE/CONDUIT AND HANGERS LESS THAN 250# ARE NOT SHOWN THESE DRAWINGS, ONLY MAJOR LOAD POINTS ARE SHOWN TYPICALLY. REFER TO MEP DRAWINGS FOR ADDITIONAL PIPE/CONDUIT AND EQUIPMENT REQUIRING VERTICAL HANGER ROD SUPPORT.
- MEP PIPE PENETRATION OPENING CORE DRILLED THROUGH SLAB AND DECK. SEE GENERAL SHEET NOTE L AND DETAIL C2/SF402 FOR ADDITIONAL SUPPORT AT SMALL OPENINGS.
- ROOF ACCESS HATCH. SEE ARCH FOR DETAIL. COORDINATE WITH HATCH SUPPLIER FOR SUPPLEMENTAL FRAMING DIMENSIONS. SEE C9/SF402 FOR FRAMING AT OPENING ON ROOF DECK AND SLAB.
- ROOF VENTILATION SHAFT OPENING THROUGH SLAB. SEE MECHANICAL FOR VENTILATION EQUIPMENT. SEE NOTE L FOR FRAMING AROUND SLAB ON DECK OPENINGS AND UTILIZE DETAIL C9/SF402 FOR THESE OPENINGS.
- MECHANICAL DUCT OPENING IN ROOF SLAB. SEE MECHANICAL. SEE NOTE L FOR FRAMING AROUND SLAB ON DECK OPENINGS AND UTILIZE DETAIL C9/SF402 FOR THESE OPENINGS. DO NOT CUT ANY STEEL BEAMS OR STOP DECK SHORT OF BEAM TOP FLANGE FOR ANY OPENINGS.
- PROVIDE W8x10 CONTINUOUS TO EXTENTS SHOWN (BOLTED SHEAR CONNECTION WHERE REQUIRED FOR INSTALLATION, HOWEVER BOTTOM FLANGE SHALL BUTT TIGHT) BELOW MAIN ROOF BEAMS AND BOLTED TO BOTTOM FLANGE OF MAIN ROOF BEAMS. PROVIDE MANUAL 1 TON PUSH BEAM TROLLEY COMPATIBLE WITH W8 BOTTOM FLANGE AND PROVIDE MANUAL 1 TON CHAIN HOIST COMPATIBLE WITH TROLLEY HANGER POINT. ALIGN WITH VERTICAL MAIN STEAM RISER FROM BOILER.
- SEE E9/SF402 FOR DECK BEARING SUPPORTS AT COLUMNS, TYP.
- SEE E2/SF402 FOR REQUIREMENTS ON DECK BEARING CONFIGURATIONS AT BEAMS, TYP.



FI ROOF FRAMING PLAN - PRIMARY FRAMING
1/8" = 1'-0"

F5 ROOF FRAMING PLAN - SUPPLEMENTAL SUPPORT FRAMING
1/8" = 1'-0"

ADDENDUM 1 08-09-24 Revisions: _____ Date: _____	CONSULTANT MOON TREE CONSULTING 1808 DEEP CREEK RD, OKC, OK 73131 918.527.7166 INFO@MOONTREELLC.COM	ARCHITECT/ENGINEER OF RECORD paradigm Architecture Engineering Design-Build 200 Envoy Circle, Suite 201, Louisville KY 40299 - www.paradigmusa.com	STAMP DAVID R. WALTON 31109 PROFESSIONAL ENGINEER	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title ROOF FRAMING AND SLAB PLANS	Phase 100% CONSTRUCTION DOCUMENTS	Project Title DESIGN REPLACE BOILER PLANT	Project Number 438-22-900
					Approved: Project Director	FULLY SPRINKLERED	Location SIoux FALLS VAMC SIOUX FALLS, SD 57105	Building Number 12
					Issue Date 08-09-2024	Checked TWW	Drawn DRW	Drawing Number SF103

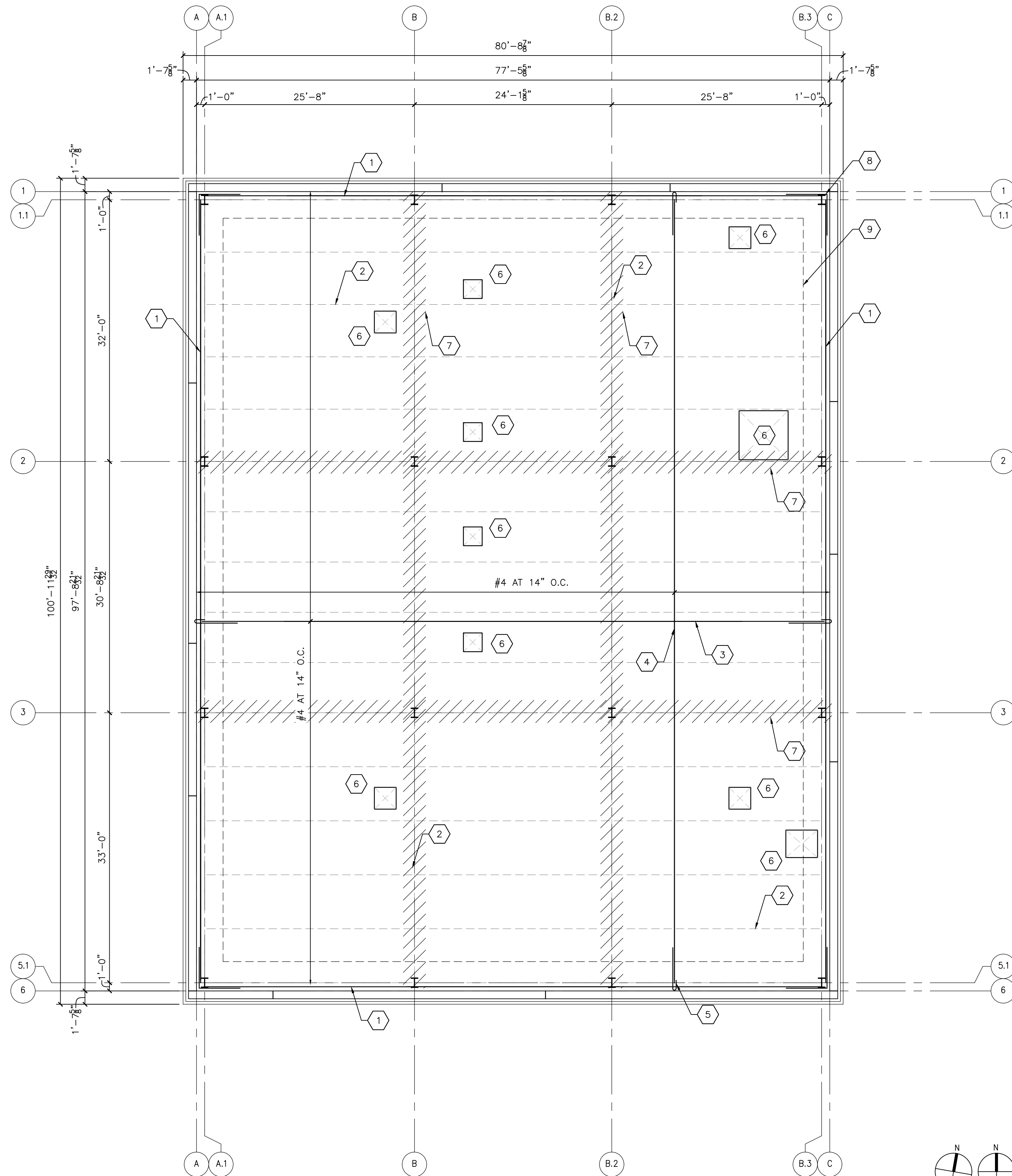
TIE SCHEDULE			
TIE TYPE	TIE SIZE	SPACING	NOTES
PERIMETER "P1"	(3)-#5 CONT.	N/A	
PERIMETER "P2"	(5)-#5 CONT.	N/A	1
X-DIRECTION	AS SHOWN	AS SHOWN	
Y-DIRECTION	AS SHOWN	AS SHOWN	
NOTES: 1. CONTRACTOR OPTION: (4) #6 CONT. BARS			

GENERAL NOTES

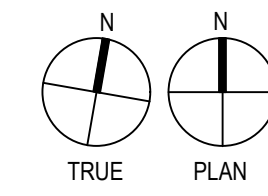
- A. TIE-FORCE REQUIREMENTS ARE AS OUTLINED IN UFC 4-023-03 SECTION 3-1. REFER TO THIS REFERENCE FOR MORE INFORMATION ON THE ITEMS SHOWN THIS PLAN.
- B. SEE SHEET SF102 FOR FRAMING AND DIMENSIONS AND OTHER INFORMATION NOT SHOWN THIS PLAN. FOR CLARITY, THIS PLAN SHOWS ONLY THE SLAB EDGE PERIMETER, BEAM AND COLUMN FRAMING AND TIE-FORCE SLAB REINFORCING. ADDITIONAL REINFORCING REQUIREMENTS ARE AS NOTED BELOW.
- C. SPLICES IN STEEL REINFORCEMENT USED FOR INTERNAL LONGITUDINAL AND TRANSVERSE TIES ARE NOT SHOWN ON THIS PLAN AND ARE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE. SPLICES SHALL BE CLASS B LAP SPLICES, WELDED OR MECHANICALLY JOINED WITH TYPE I OR II MECHANICAL SPLICES PER ACI 318. TYPE II MECHANICAL SPLICES MAY BE USED AT ANY LOCATION WITHIN THE SLAB. TYPE I MECHANICAL SPLICES, WELDED SPLICES AND CLASS B LAP SPLICES SHALL BE LOCATED NO CLOSER THAN 20% OF THE BAY SPACING IN THE DIRECTION OF THE TIE TO ANY COLUMN/BAY GRID LINES.
- D. SPLICES IN STEEL REINFORCEMENT USED FOR PERIPHERAL TIES ARE NOT SHOWN ON THIS PLAN AND ARE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE. FOR PERIPHERAL TIES, TYPE I MECHANICAL SPLICES, WELDED SPLICES AND CLASS B LAP SPLICES SHALL BE LOCATED NO CLOSER THAN 20% OF THE BAY SPACING TO THE COLUMN GRID LINES.
- E. NON-CONTACT SPLICES ARE NOT ALLOWED.
- F. USE SEISMIC HOOKS, SAME SIZE AS INTERNAL TIES, PER ACI 318 TO LAP WITH ENDS OF INTERNAL TIES, USING ACI CHAPTER 12 LAP LENGTHS (SEE LAP SCHEDULE ON SHEET SG005), TO ANCHOR INTERNAL TIES TO PERIPHERAL CONTINUOUS TIE AT PERIMETER OF SLAB. ANCHORS SHALL ENCOMPASS OUTER LINE OF PERIPHERAL REINFORCEMENT IF MORE THAN ONE BAR IS USED FOR PERIPHERAL TIE LINE.

KEY NOTES

- 1. CONTINUOUS PERIMETER/PERIPHERAL TIE BARS, TYP. REFER TO SCHEDULE. REFER TO SHEET NOTE D FOR SPLICE INFORMATION.
- 2. BEAM/GIRDER FRAMING, TYP. REFER TO SHEET SF102. ADJUST CONTINUOUS INTERNAL TIE SPACING SUCH THAT INTERNAL TIES DO NOT FALL DIRECTLY ABOVE FLOOR FRAMING MEMBERS, TYP.
- 3. "X-DIRECTION" CONTINUOUS INTERNAL TIE REINFORCING, TYP. REFER TO SCHEDULE.
- 4. "Y-DIRECTION" CONTINUOUS INTERNAL TIE REINFORCING, TYP. REFER TO SCHEDULE.
- 5. SEISMIC HOOK PER ACI 318, SAME SIZE AND SPACING AS INTERNAL TIE REINFORCING. PROVIDE SPLICE WITH TIE REINFORCING, TYP. REFER TO SHEET NOTE C.
- 6. AT CORNERS PENETRATIONS LARGER THAN 12"x12", PROVIDE SLAB REINFORCING CONFIGURED PER DETAIL C9/SF402 AND EXTEND BARS INTO SLAB FIELD PER LAP LENGTH ON SHEET SG005.
- 7. AT COLUMN LINES PROVIDE BARS BETWEEN COLUMNS SAME SIZE AND SPACING AS INTERNAL TIE REINFORCING BUT DO NOT SPLICE OR LAP WITHIN THE COLUMN STRIP. NOT SPECIFICALLY SHOWN ON PLAN AT ALL LOCATIONS FOR CLARITY, BUT TYPICAL ALL COLUMN/BEAM AND COLUMN/GIRDER LINES. DISCONTINUOUS REINFORCING DOES NOT NEED TO BE SHIFTED TO AVOID BEING PLACED DIRECTLY OVER MEMBERS, HOWEVER MINOR OFFSET IS REQUIRED TO AVOID CONFLICT WITH COMPOSITE BEAM SHEAR STUDS.
- 8. PROVIDE CORNERS BARS SAME SIZE AND NUMBER AS PERIPHERAL TIE BARS WITH ACI LAP EACH LEG.
- 9. PERIPHERAL TIES SHALL BE LOCATED WITHIN 3'-3" OF EDGE OF SLAB, ALL EDGES OF BUILDING.



F5 ROOF SLAB REINFORCING PLAN
1/8" = 1'-0"



ADDENDUM 1	08-09-24
Revisions:	Date:

CONSULTANT

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ARCHITECT/ENGINEER OF RECORD

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STAMP

Office of Construction and Facilities Management

Drawing Title: **ROOF SLAB REINFORCING DIAGRAM**

Approved: Project Director

Phase: **100% CONSTRUCTION DOCUMENTS**

FULLY SPRINKLERED

Project Title: **DESIGN REPLACE BOILER PLANT**

Location: **SIoux FALLS VAMC**
SIoux FALLS, SD 57005

Issue Date: **08-09-2024**

Checked: **TWW**

Drawn: **DRW**

Project Number: **438-22-900**

Building Number: **12**

Drawing Number: **SF104**

WALL OPENING SCHEDULE					WC#	LO#	DO#
MARK	OPENING WIDTH	OPENING HEIGHT	BOTTOM ELEVATION	TOP ELEVATION	JAMB REINFORCING	HEADER/SILL REINFORCING	
DOOR OPENINGS - EXTERIOR, BLAST RATED, SEE SPECS							
D01	3'-4"	7'-4"	0'-0"	7'-4"			
D02	14'-0"	8'-8"	0'-0"	8'-8"			
D03	6'-4"	7'-4"	0'-0"	7'-4"			
LOUVER OPENINGS - EXTERIOR, BLAST RATED, SEE SPECS							
L01	8'-0"	8'-0"	1'-4"	9'-4"			
L02	4'-0"	8'-0"	1'-4"	9'-4"			
L03	7'-0"	7'-0"	2'-0"	9'-0"			
L04	4'-0"	4'-0"	6'-0"	10'-0"			
L05	8'-0"	8'-0"	16'-8"	24'-8"			
L06	4'-0"	4'-0"	21'-0"	25'-0"			
L07	4'-0"	8'-0"	16'-8"	24'-8"			
WINDOW OPENINGS - EXTERIOR, BLAST RATED, SEE SPECS							
W01	3'-4"	8'-7 1/2"	12'-5 1/2"	21'-1"			

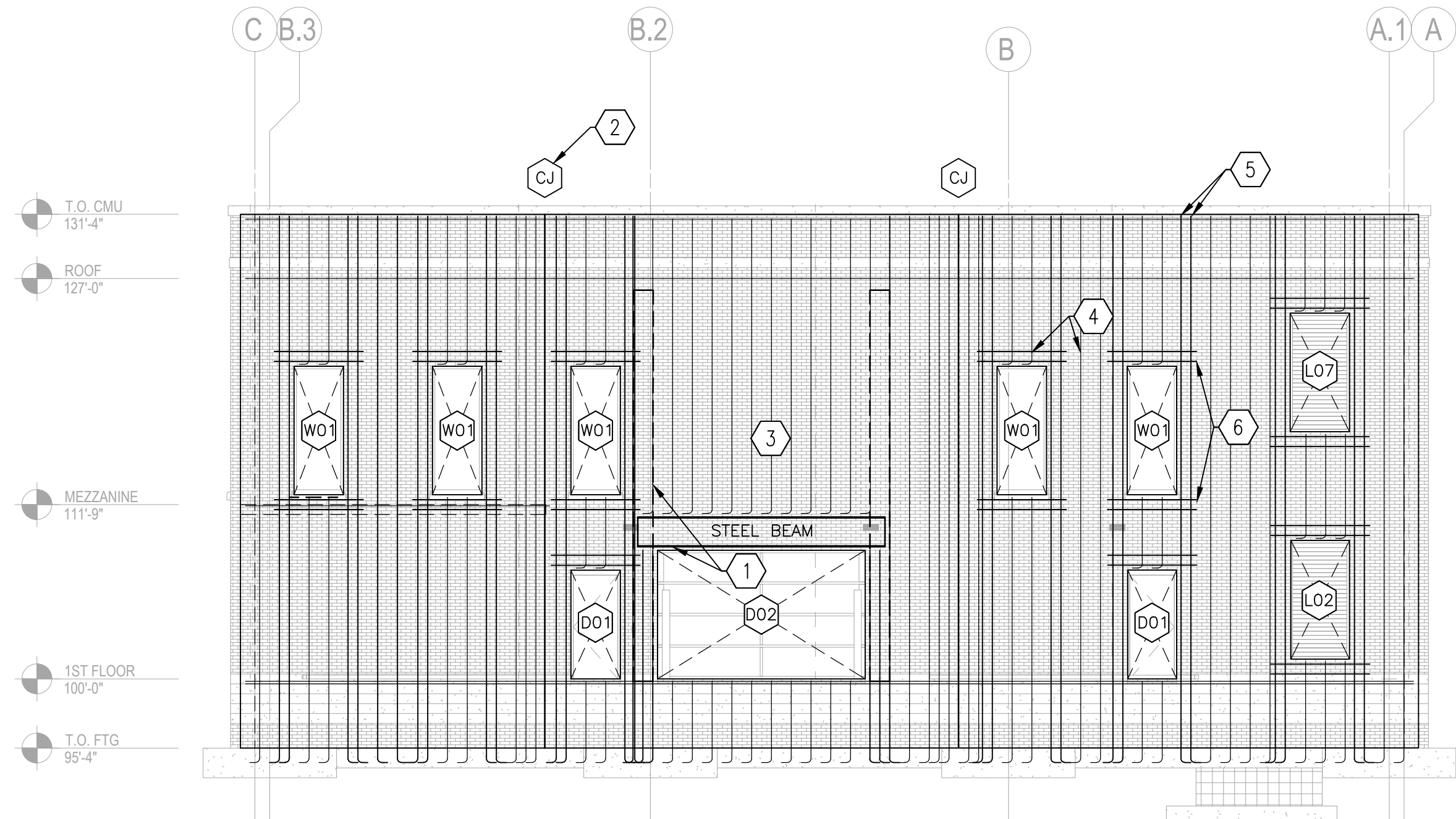
GENERAL NOTES

- A. GROUND FINISHED FLOOR ASSUMED ELEVATION = 100'-0" (35.50') ALL ELEVATIONS ARE BASED ON THIS DATUM UNLESS NOTED OTHERWISE.
- B. SEE PLANS FOR DETAIL REFERENCES RELATIVE TO ITEMS SHOWN THIS SHEET.
- C. COORDINATE LIMITS AND LOCATION OF VENER WITH ARCHITECTURAL DRAWINGS. DIMENSIONS SHOWN TO OUTSIDE OF BUILDING ARE TO FACE OF CONCRETE WALL, TYP.
- D. VERIFY ALL WALL OPENING AND INTERIOR WALL DIMENSIONS AND LOCATIONS WITH ARCHITECTURAL DRAWINGS.
- E. SEE ARCH. FOR CONTROL JOINT SPACING IN BRICK FACADE. BRICK JOINTS ARE REQUIRED AS SHOWN ON ARCH DRAWINGS.

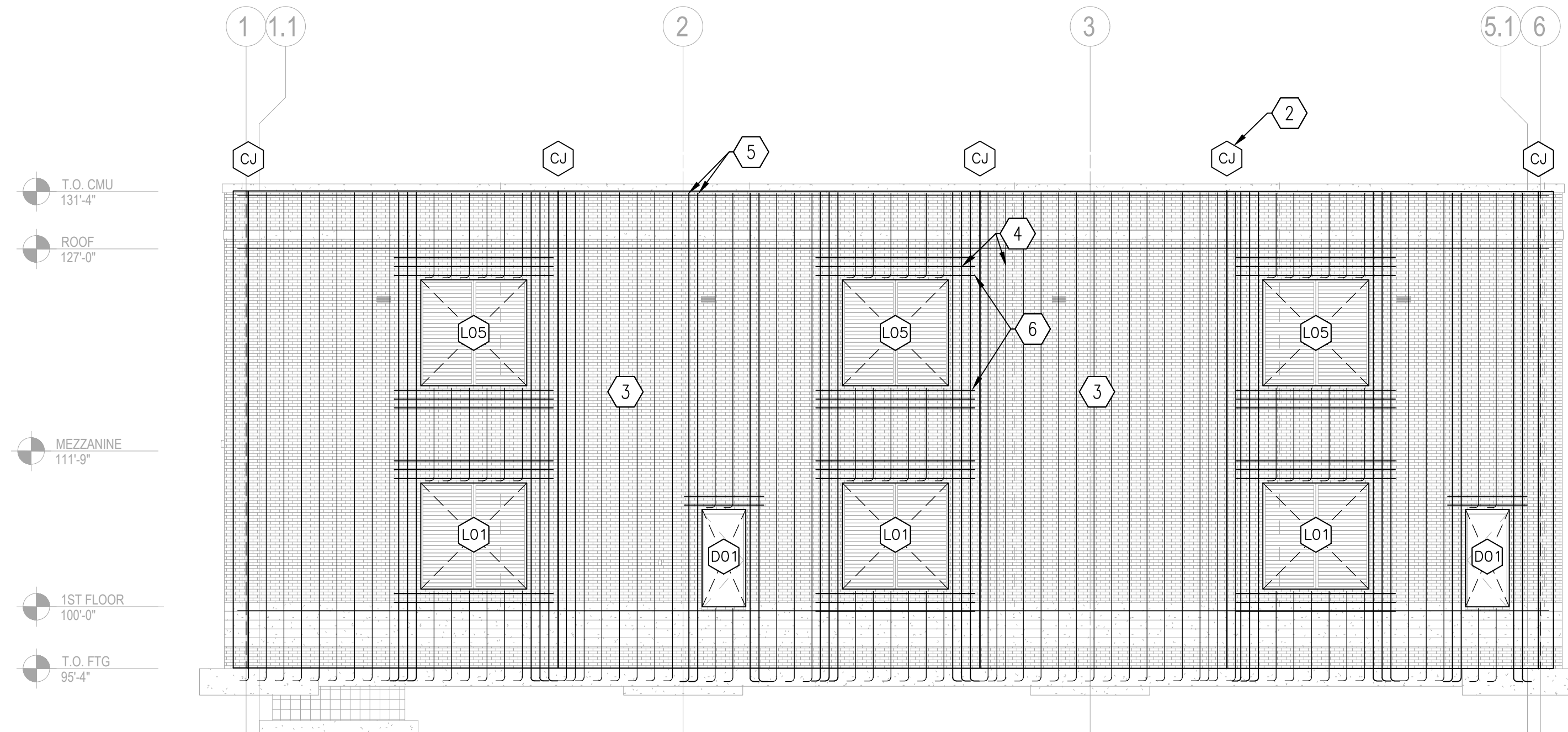
KEY NOTES

- 1. BRACING AND BACKUP FRAME ABOVE AND AROUND WALL OPENINGS GREATER THAN 8'-0" WIDTH. SEE DETAIL REFERENCES AT THESE LOCATIONS (TYP).
- 2. FULL HEIGHT CMU WALL EXPANSION JOINT. SEE ARCH FOR BRICK EXPANSION JOINTS. EA. SIDE OF JOINT, 2 CELLS GROUTED AND REINFORCED WITH #4 #5 BARS EA. FACE OF WALL, 2.5" CLEAR FROM FACE, SEE CMU REINFORCING DETAILS (TYP).
- 3. TYPICAL WALL REINFORCING IN CMU WALLS (2) #5 AT 16" O.C. (1 BAR EA. FACE).
- 4. ALL VERTICAL CMU CELL REINFORCING AND HORIZONTAL BOND BEAM BARS SHOWN ARE #5 BARS EA. FACE OF WALL, 2.5" CLEAR FROM FACE (TYP).
- 5. ADDITIONAL REINFORCED CELLS AT JAMBS AS SHOWN.
- 6. BOND BEAMS WITH REINFORCING TOP AND BOTTOM OF OPENING AS SHOWN, EXTEND REINFORCING MIN 24" BEYOND OPENING EA. SIDE., TYP.

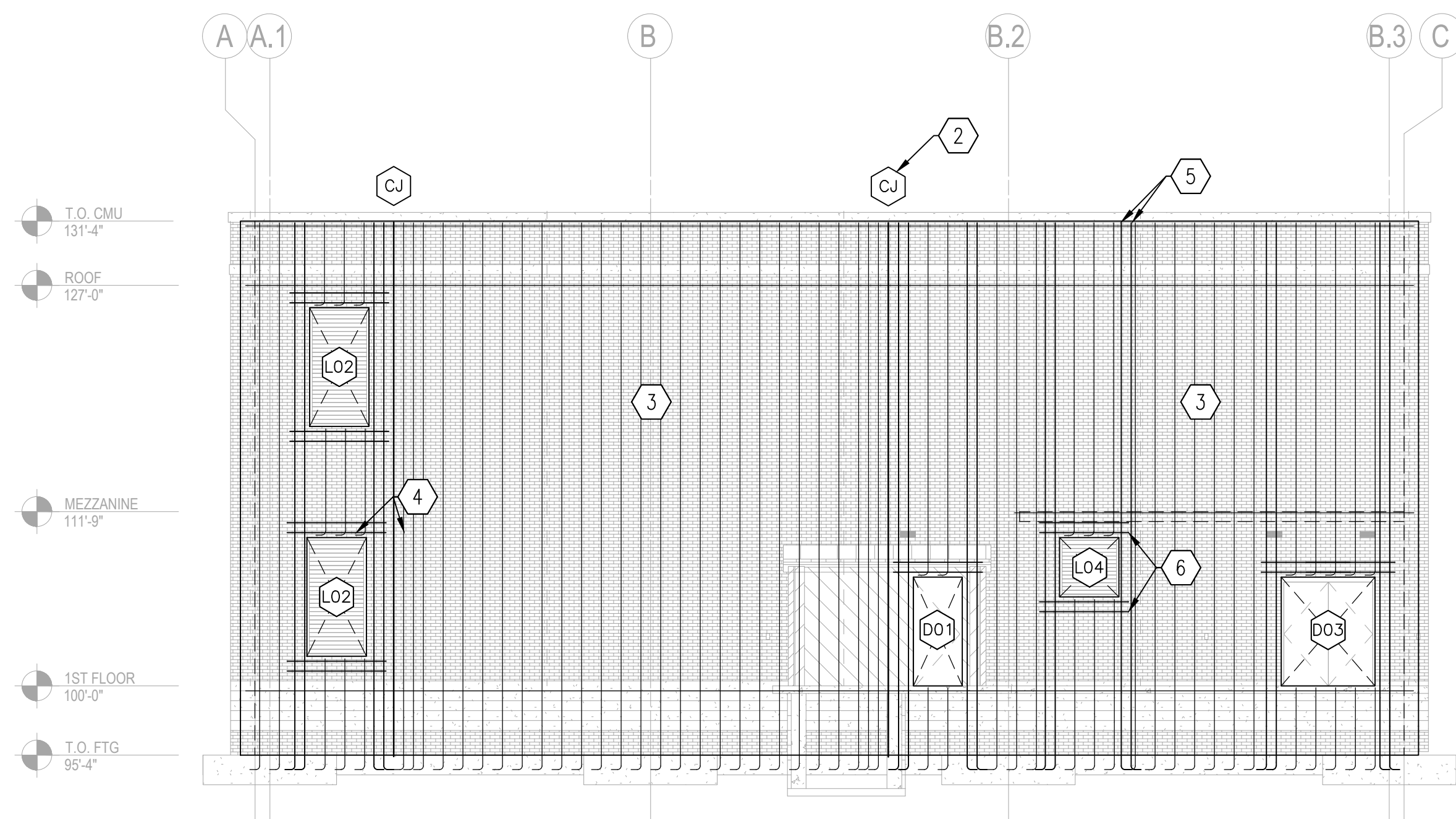
NOTES:
 1. SEE ARCH ELEVATIONS FOR ADDITIONAL INFORMATION ON OPENINGS IN WALLS
 2. SEE SE201 ELEVATIONS FOR CONFIGURATION OF REINFORCING IN ADDITION TO TYPICAL REINFORCING CALLED OUT FOR WALLS.
 3. ENVELOPE BLAST RATING MINIMUM REQUIREMENTS FOR DESIGN/CERTIFICATION OF COMPONENTS LOADING SHALL BE MIN. 13.44 PSI AT 50.78 PSI-MSEQ.
 4. WINDOWS SHALL BE LAMINATED AND DESIGNED FOR BLAST LOADING. IF IGU SYSTEMS ARE USED, ONLY THE INNER PANE SHALL BE LAMINATED, MIN 1/4" PANE THICKNESS.
 5. WINDOW AND DOOR FRAMES AND ANCHORAGE SHALL BE DESIGNED FOR COLLECTED BLAST LOADING INDICATED IN NOTE 3.



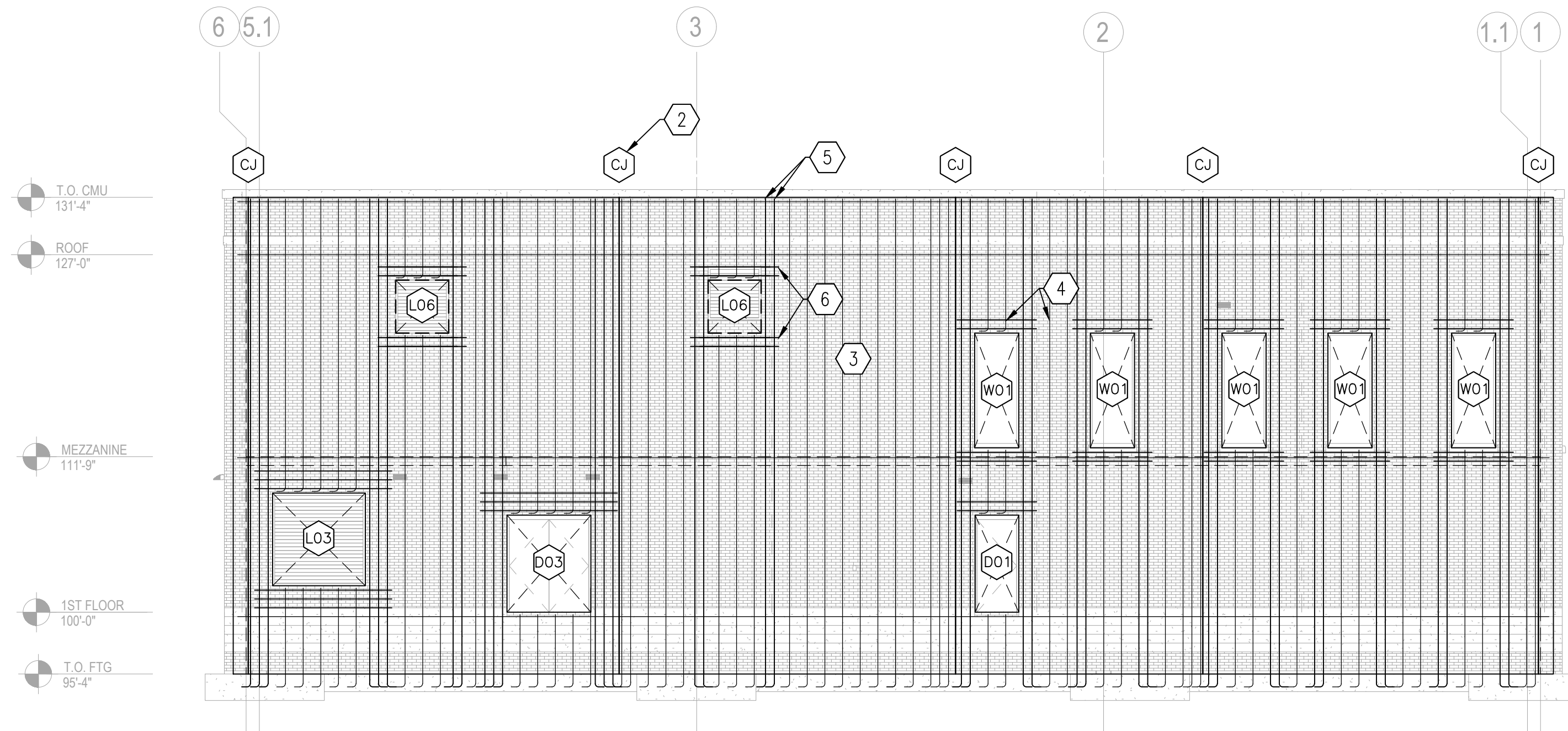
D1 NORTH WALL REINFORCING ELEVATION
1/8" = 1'-0"



D5 WEST WALL REINFORCING ELEVATION
1/8" = 1'-0"



F1 SOUTH WALL REINFORCING ELEVATION
1/8" = 1'-0"



F5 EAST WALL REINFORCING ELEVATION
1/8" = 1'-0"

ADDENDUM 1	08-09-24
Revisions:	Date:

CONSULTANT

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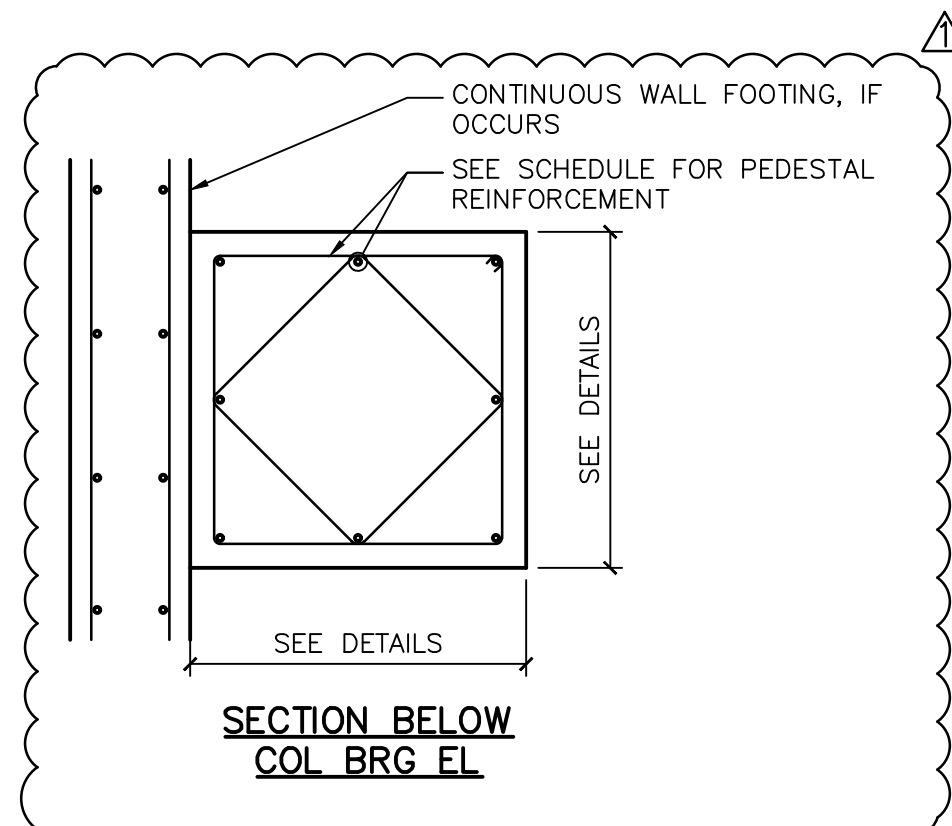
Office of Construction and Facilities Management

Drawing Title	WALL ELEVATION REINFORCING DIAGRAMS
Approved:	Project Director

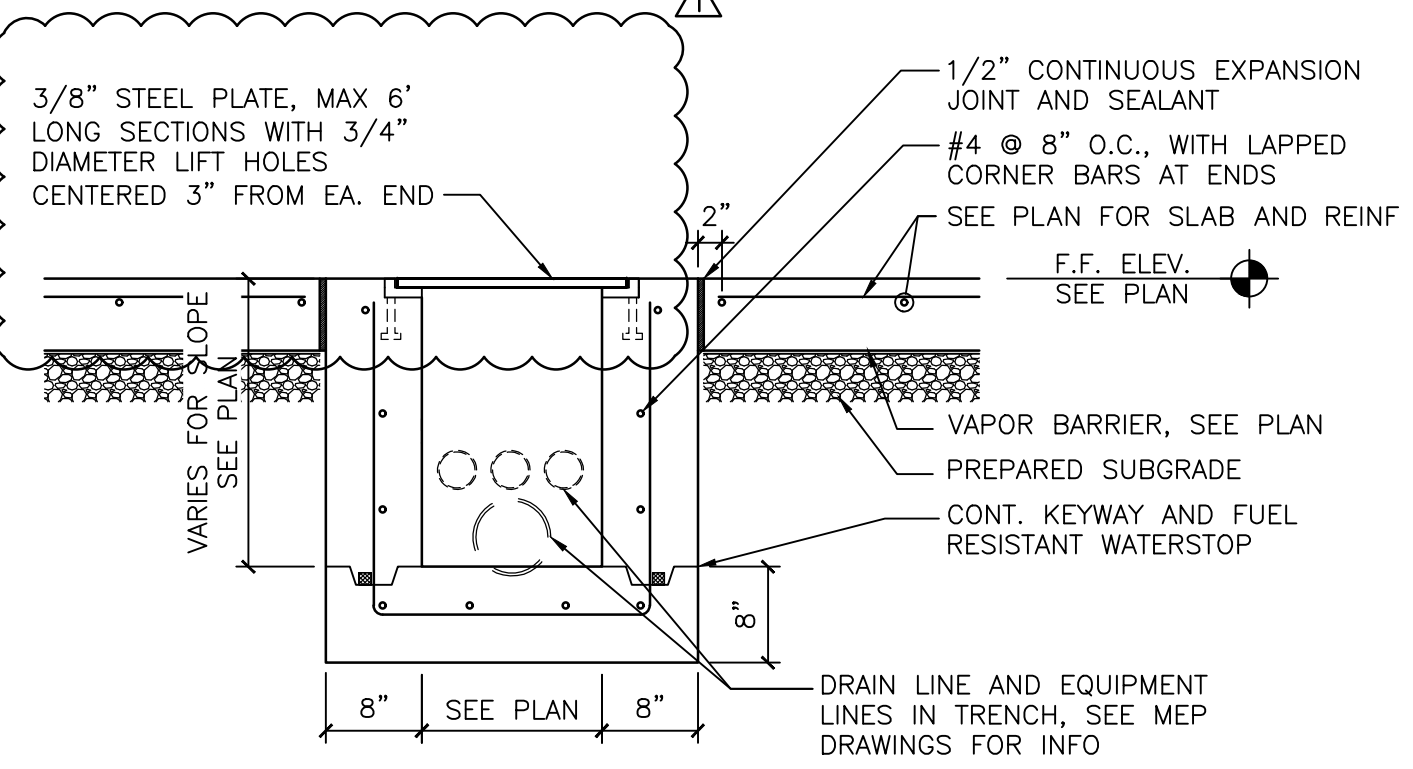
Phase	100% CONSTRUCTION DOCUMENTS
Location	SIoux FALLS VAMC
Issue Date	08-09-2024
Checked	TWW
Drawn	DRW

Project Title	DESIGN REPLACE BOILER PLANT
Location	SIoux FALLS VAMC
Issue Date	08-09-2024
Checked	TWW
Drawn	DRW

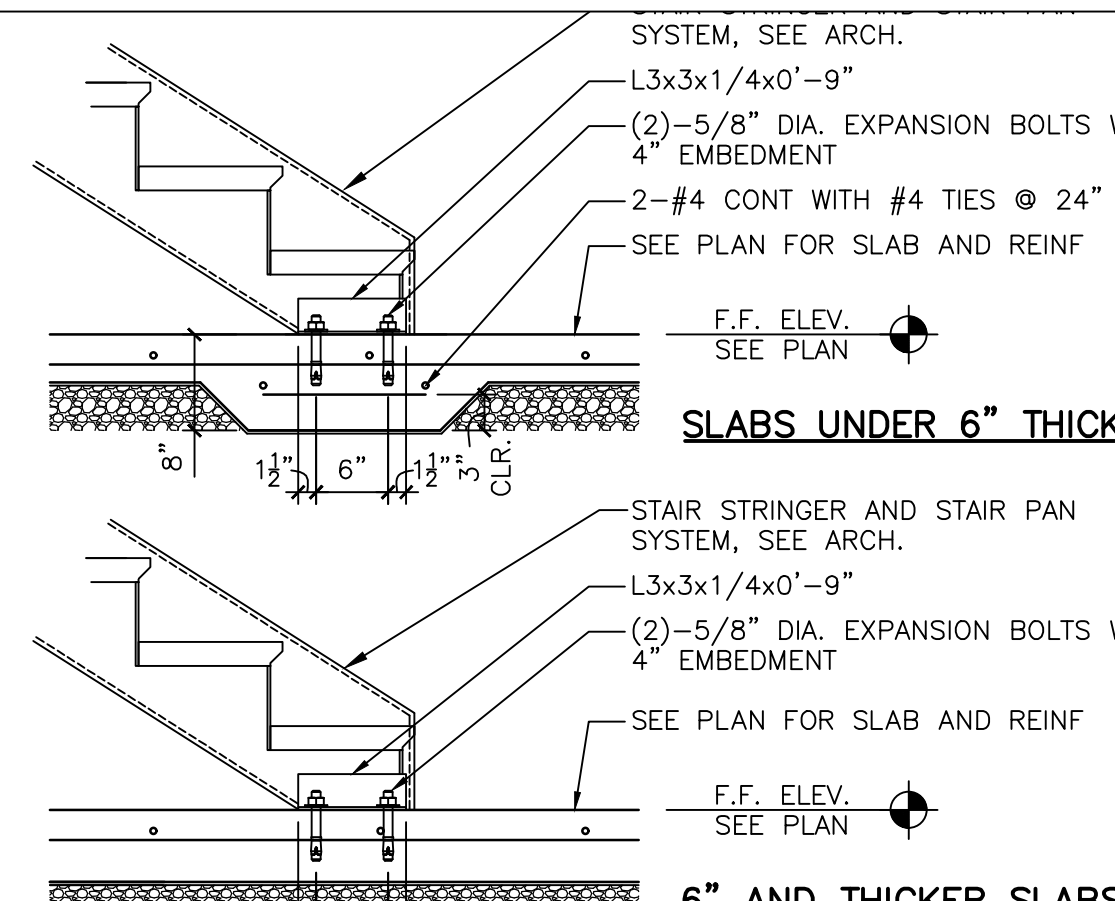
Project Number	438-22-900
Building Number	12
Drawing Number	SE201



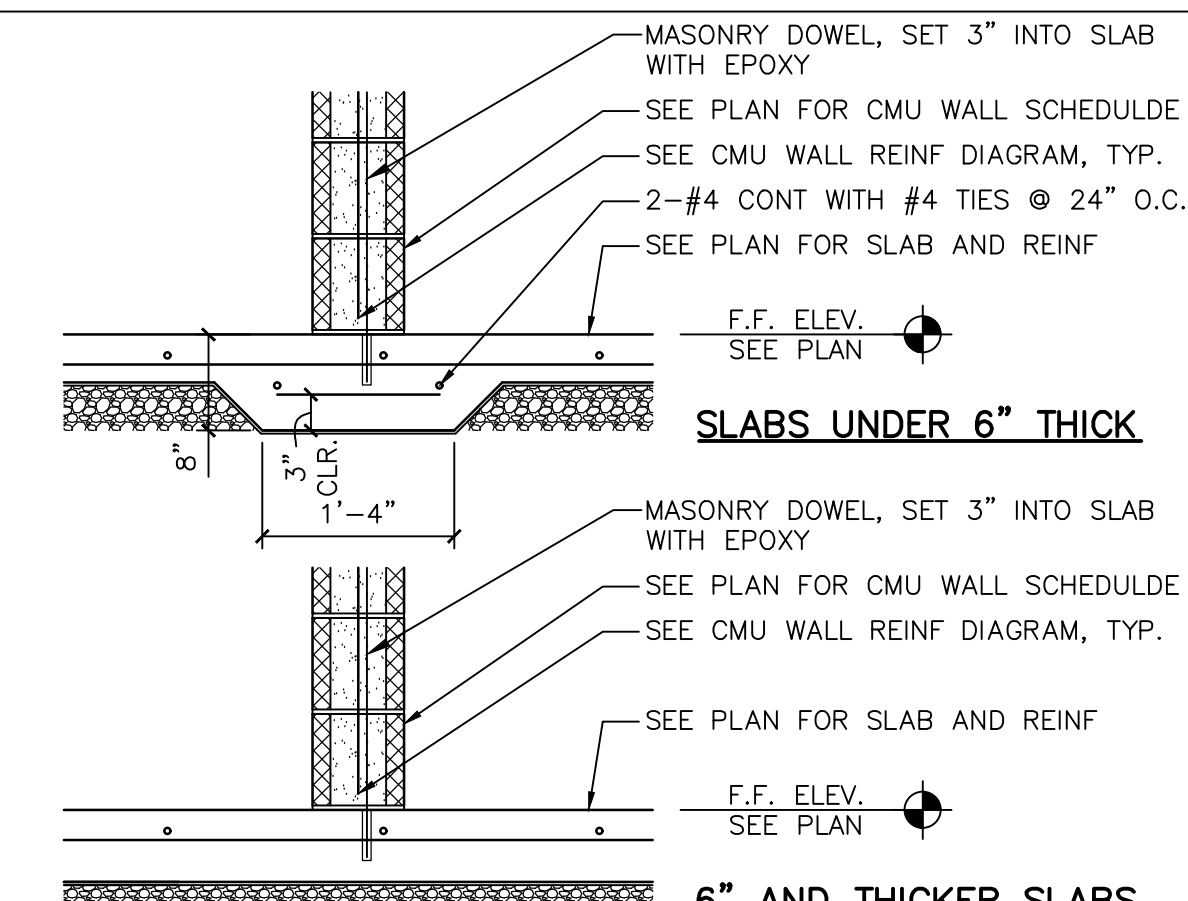
B2 PEDESTAL REINFORCING
3/4"-1'-0"



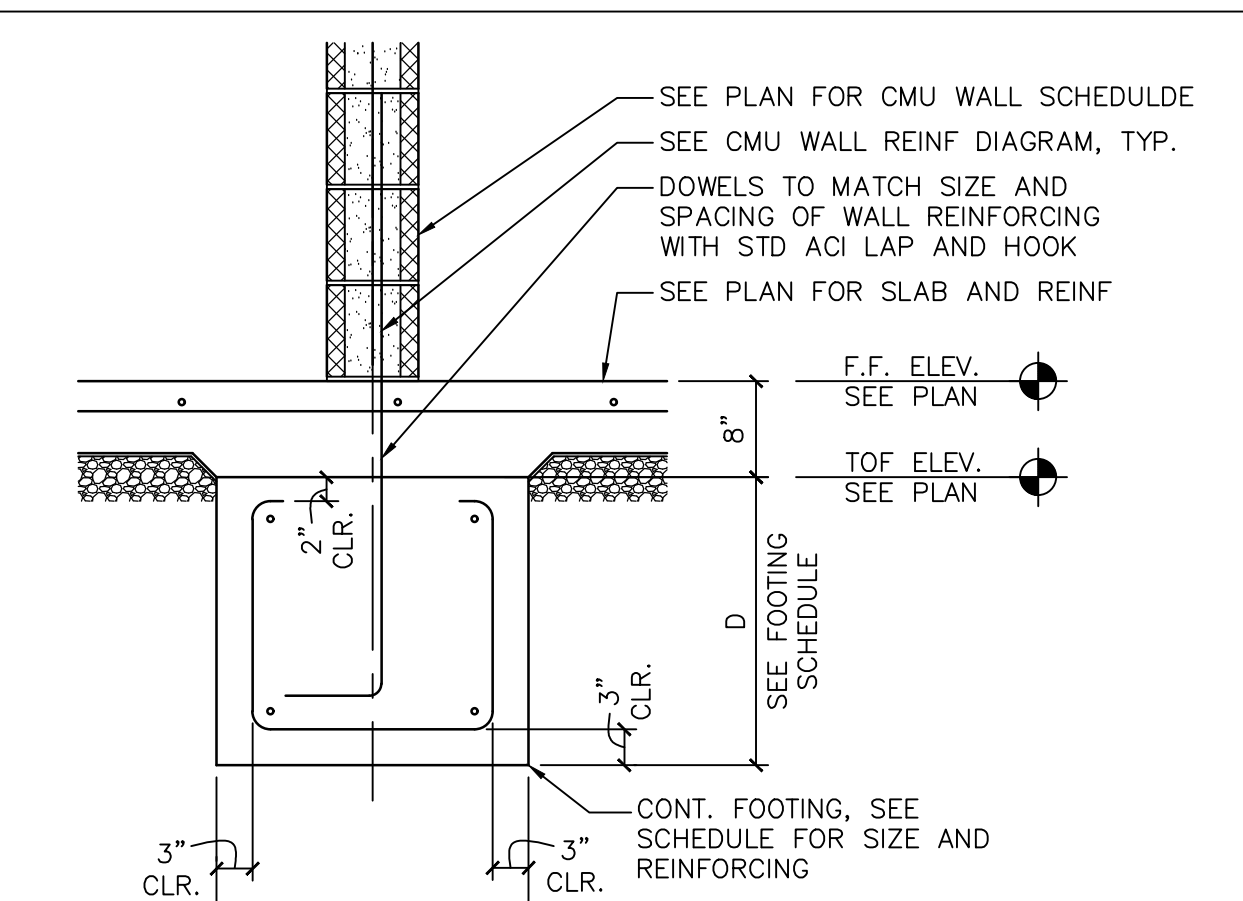
B4 SECTION - TRENCH DRAIN
3/4"-1'-0"



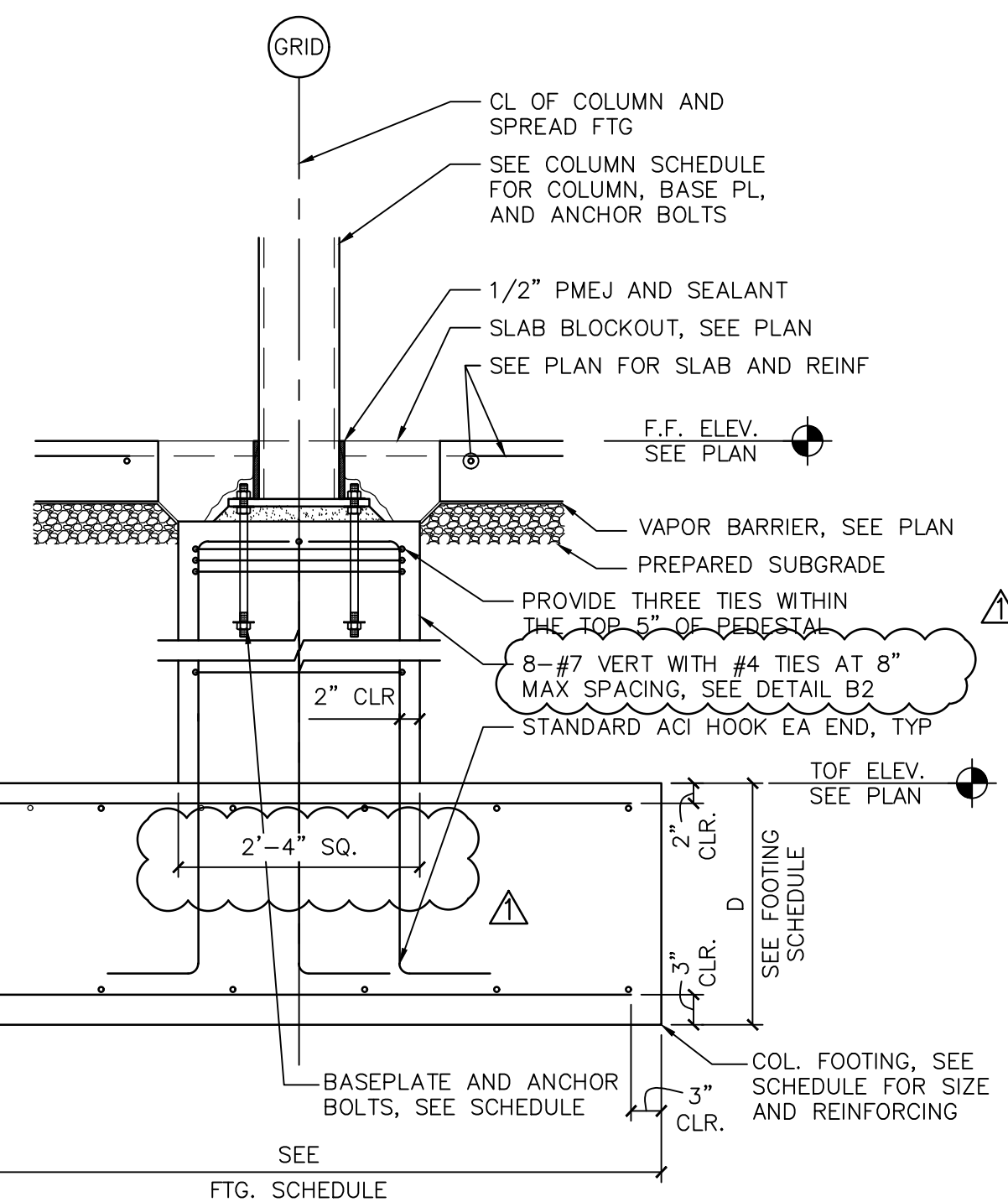
B6 SECTION - SLAB AT STAIR FRAMING
3/4"-1'-0"



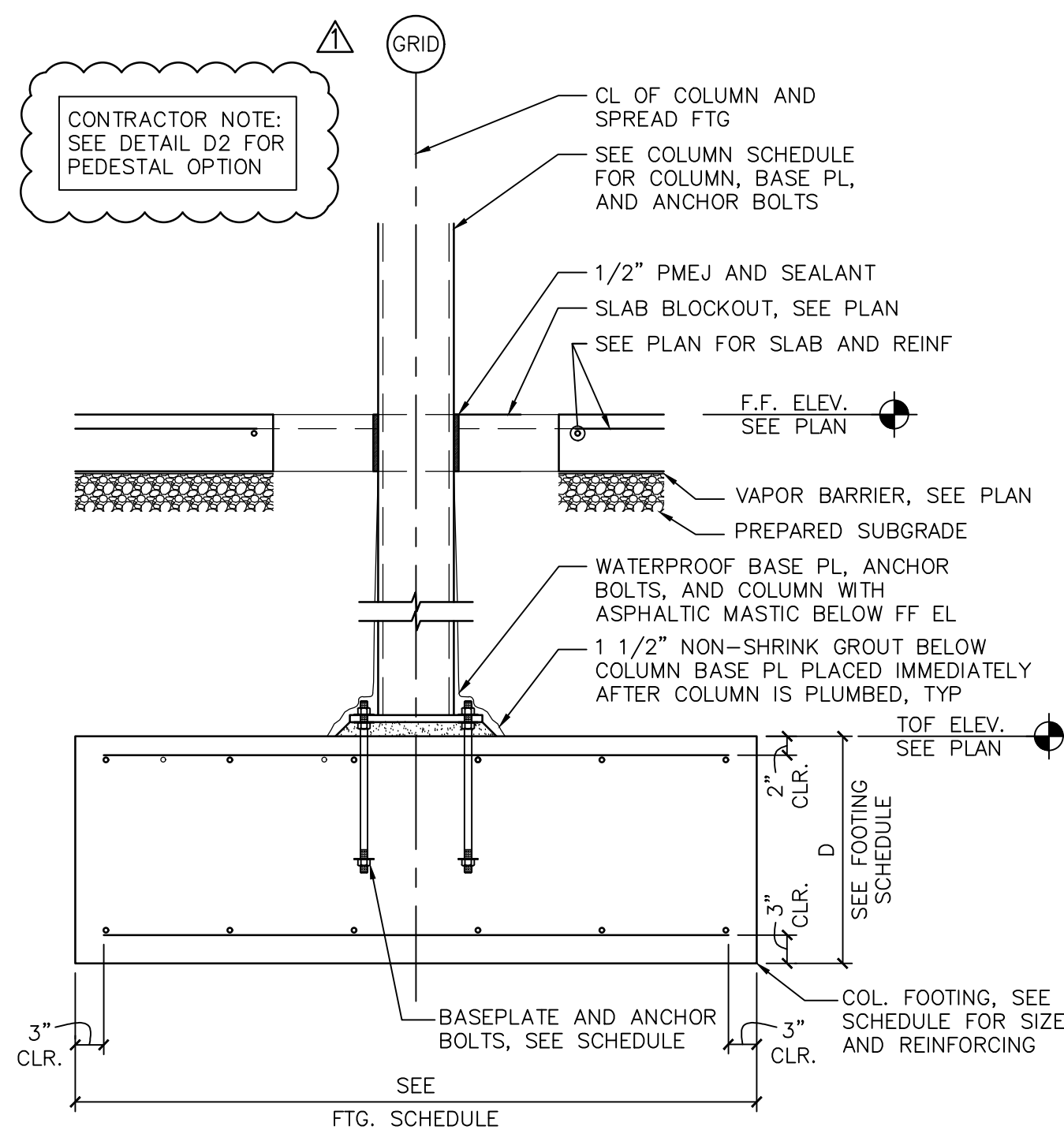
B7 SECTION - SLAB AT PARTITION WALL
3/4"-1'-0"



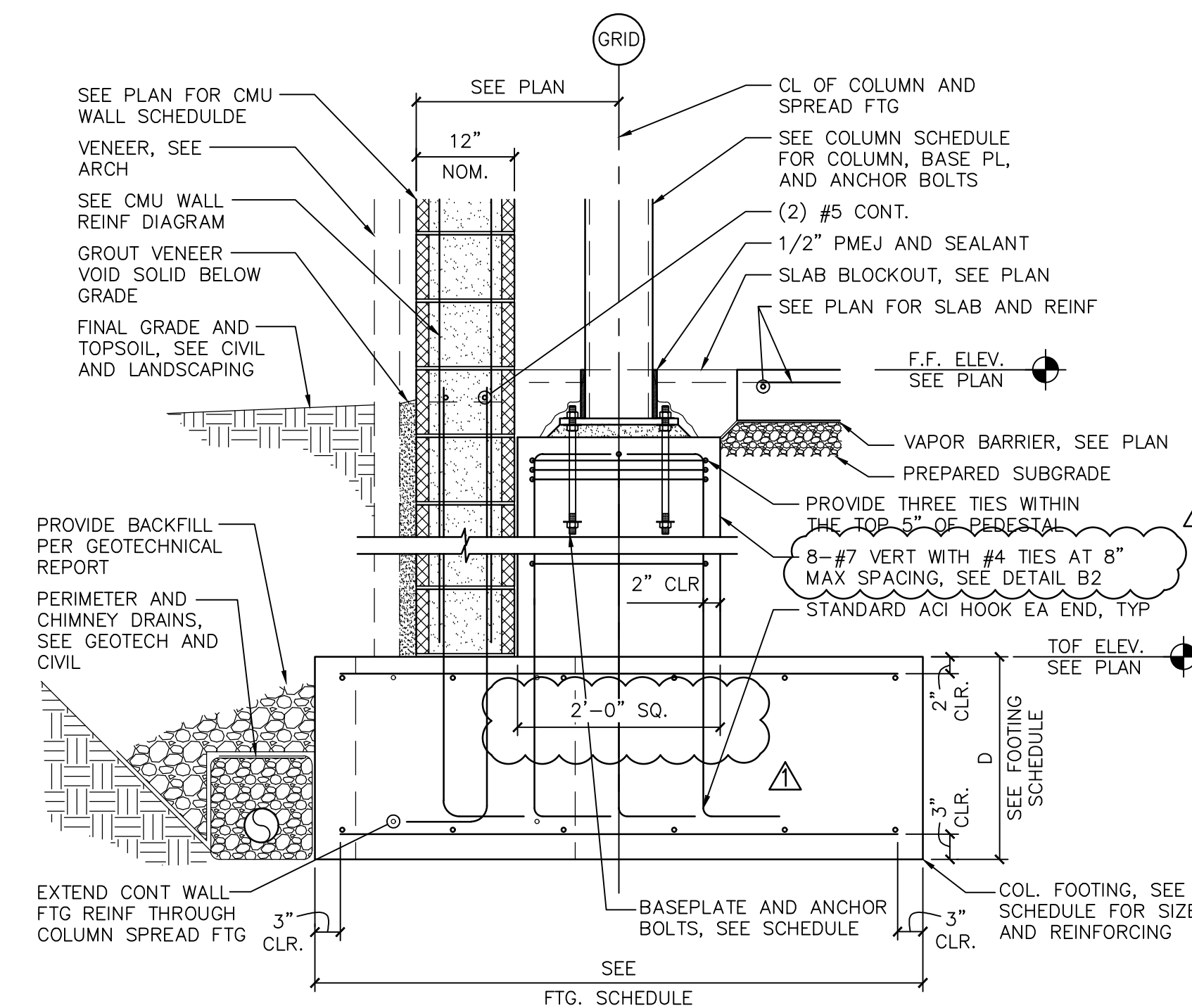
B9 SECTION - FOUNDATION AT LOADBEARING WALL
3/4"-1'-0"



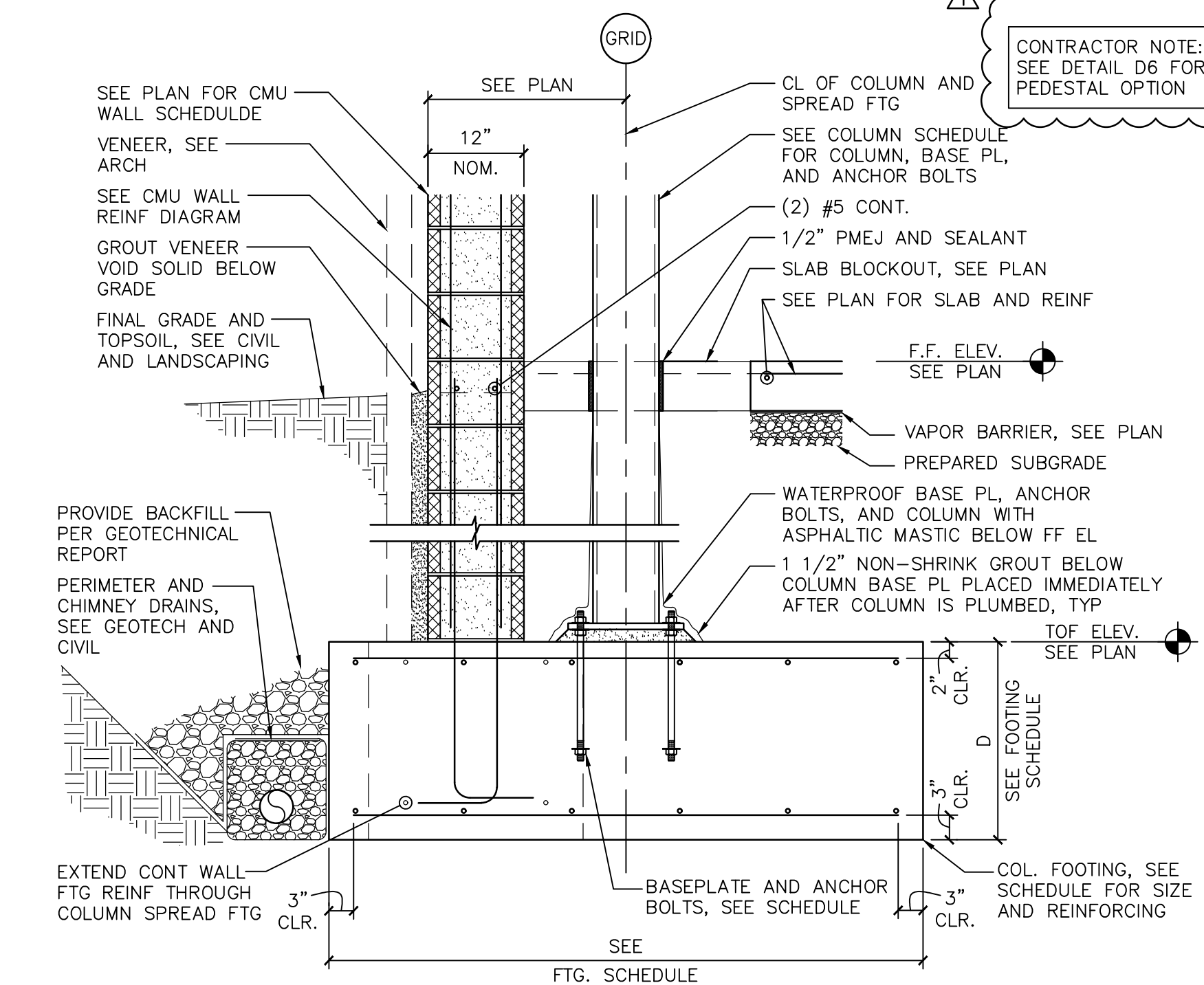
D2 SECTION - FOUNDATION AT INTERIOR COLUMN ON PEDESTAL
3/4"-1'-0"



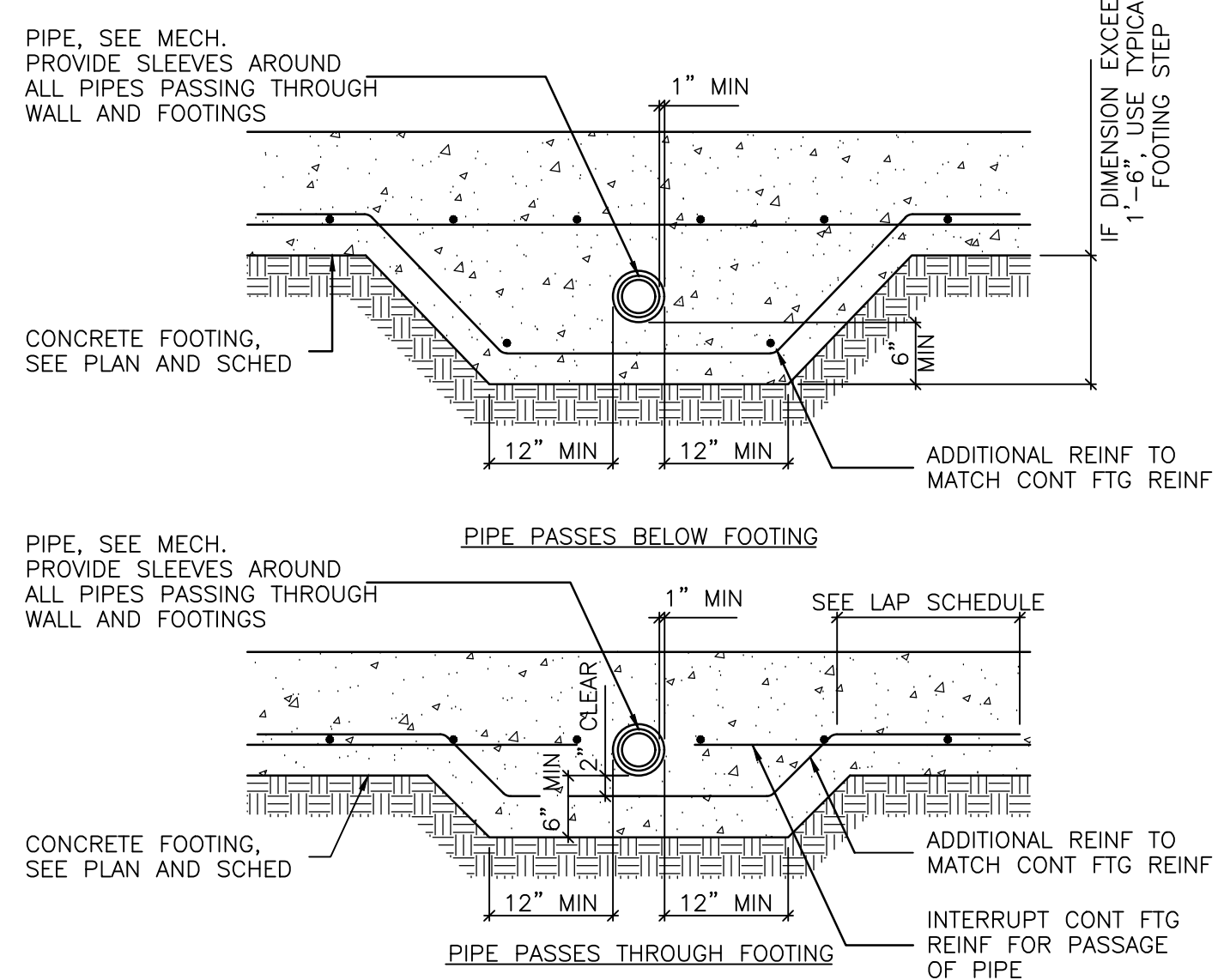
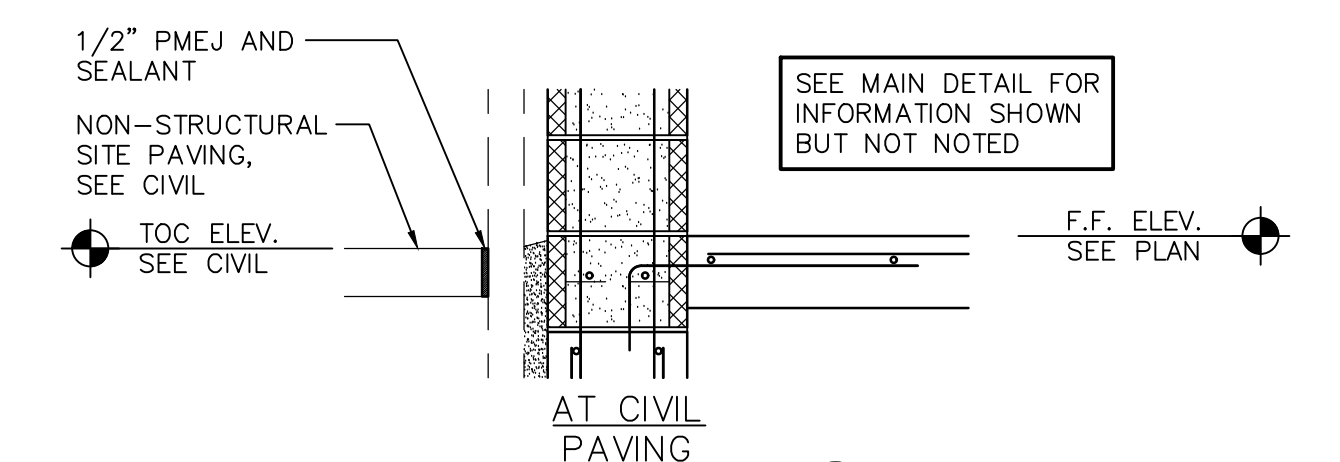
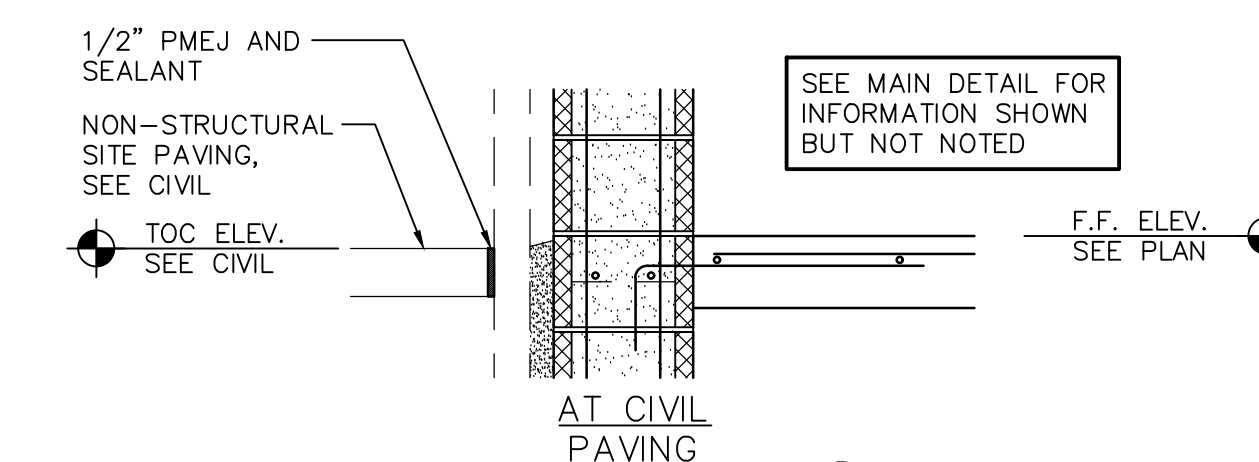
D4 SECTION - FOUNDATION AT INTERIOR COLUMN ON FOOTING
3/4"-1'-0"



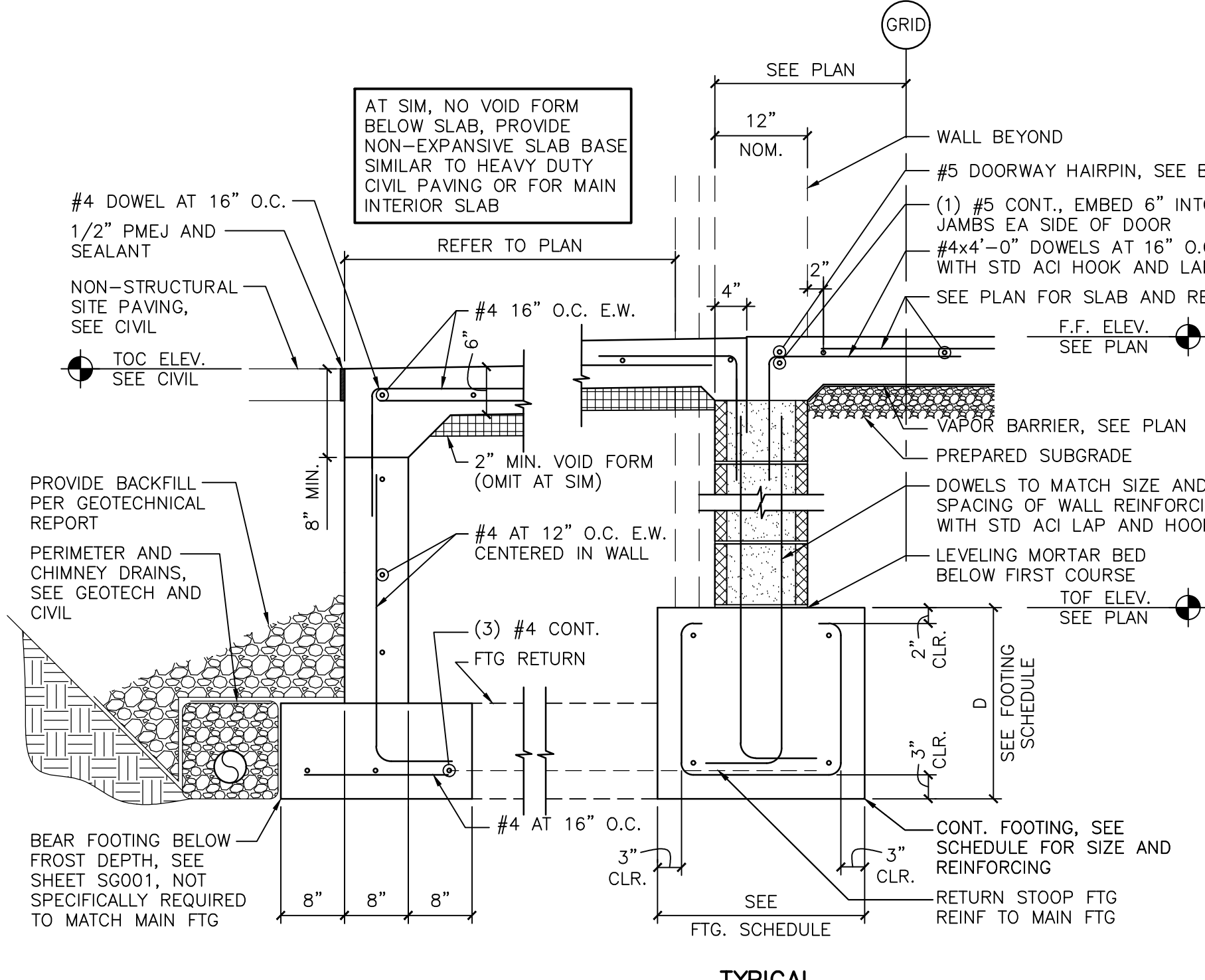
D6 SECTION - FOUNDATION AT EXTERIOR COLUMN ON PEDESTAL
3/4"-1'-0"



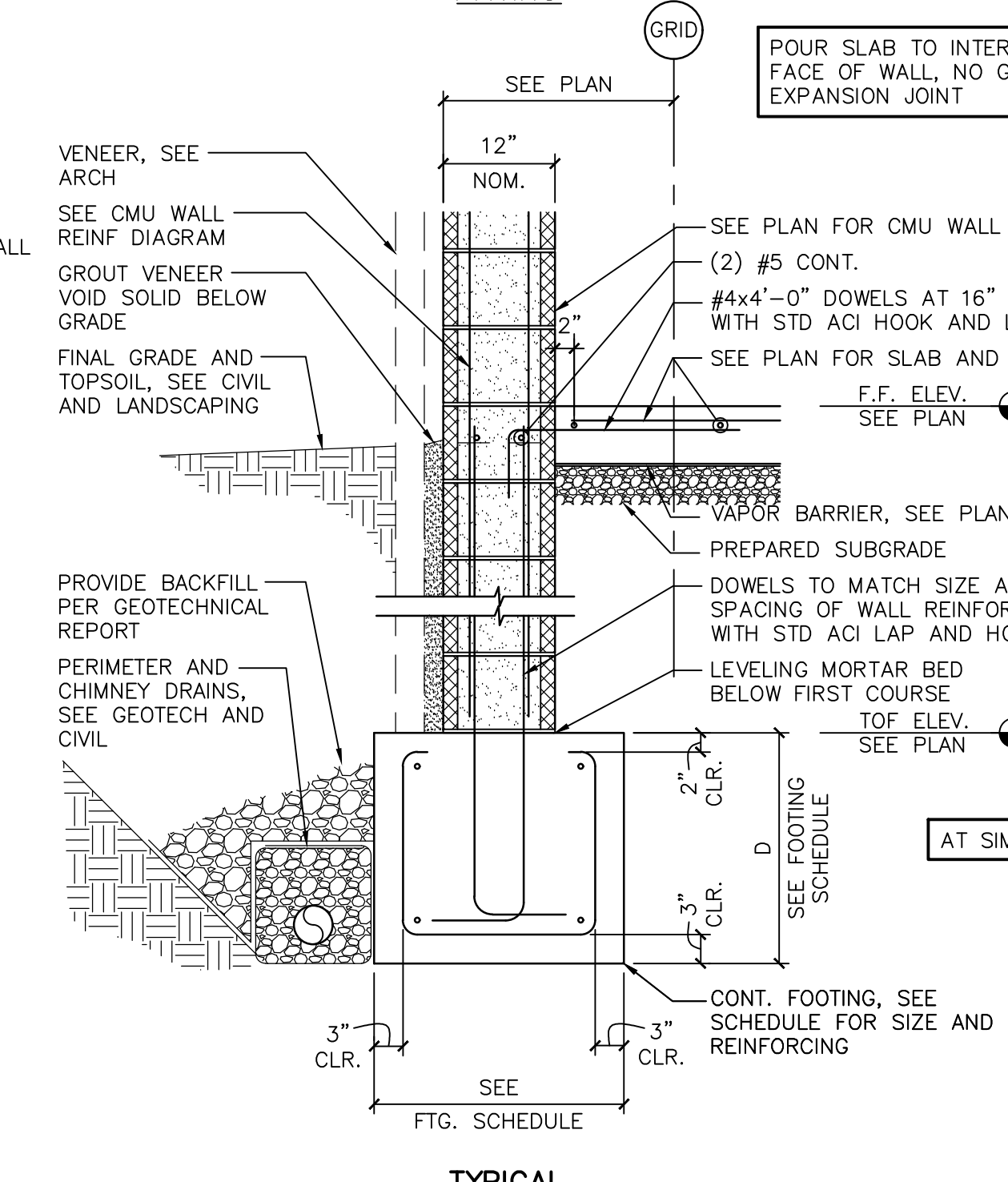
D8 SECTION - FOUNDATION AT EXTERIOR COLUMN ON FOOTING
3/4"-1'-0"



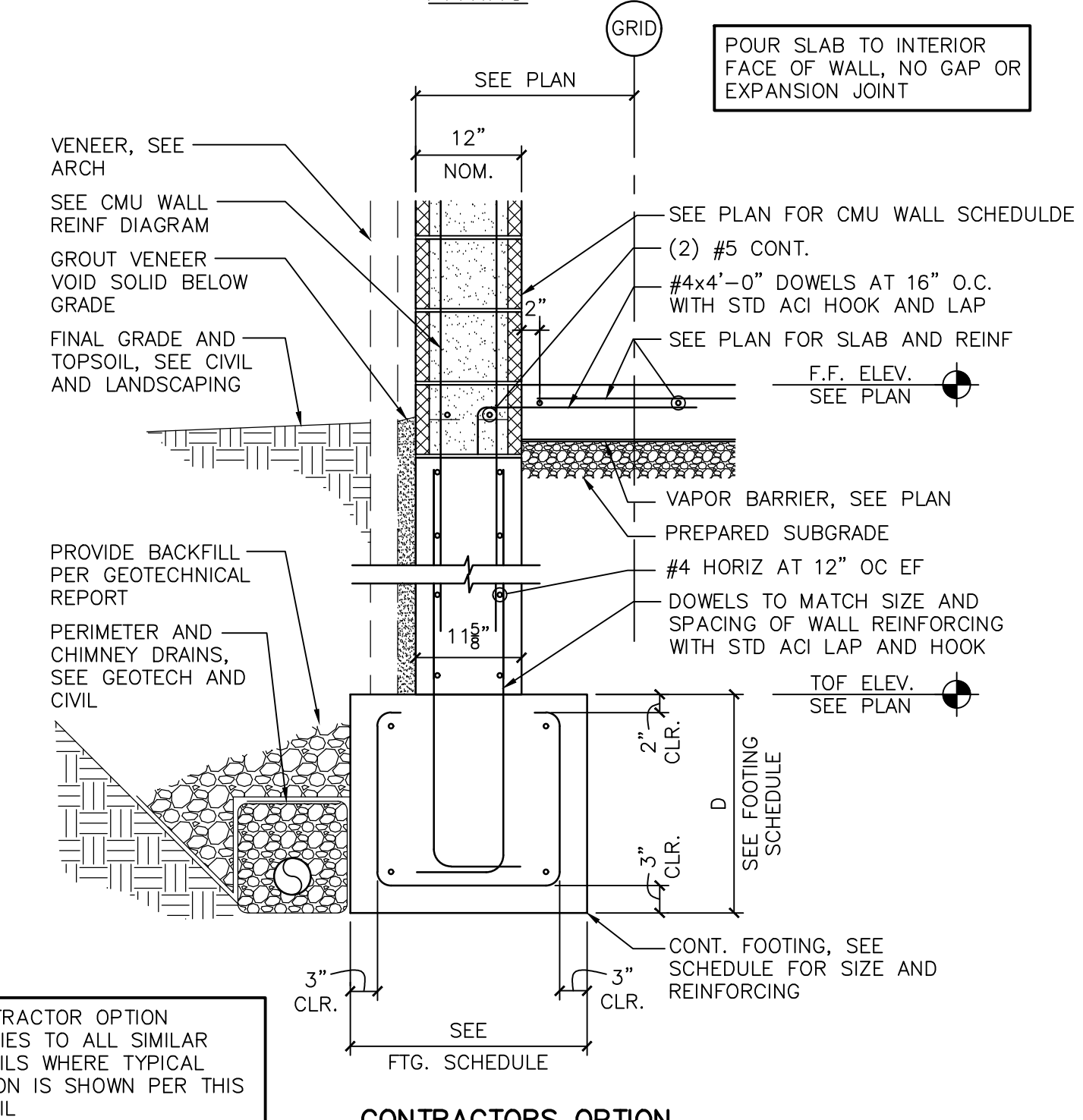
F2 SECTION - MEP PENETRATIONS THROUGH FOUNDATIONS
3/4"-1'-0"



F4 SECTION - FOUNDATION AT EXTERIOR WALL - STRUCTURAL STOOP
3/4"-1'-0"



F7 SECTION - FOUNDATION AT TYPICAL EXTERIOR WALL
3/4"-1'-0"



CONTRACTORS OPTION

ADDENDUM 1	08-09-24
Revisions:	Date:

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Office of Construction and Facilities Management

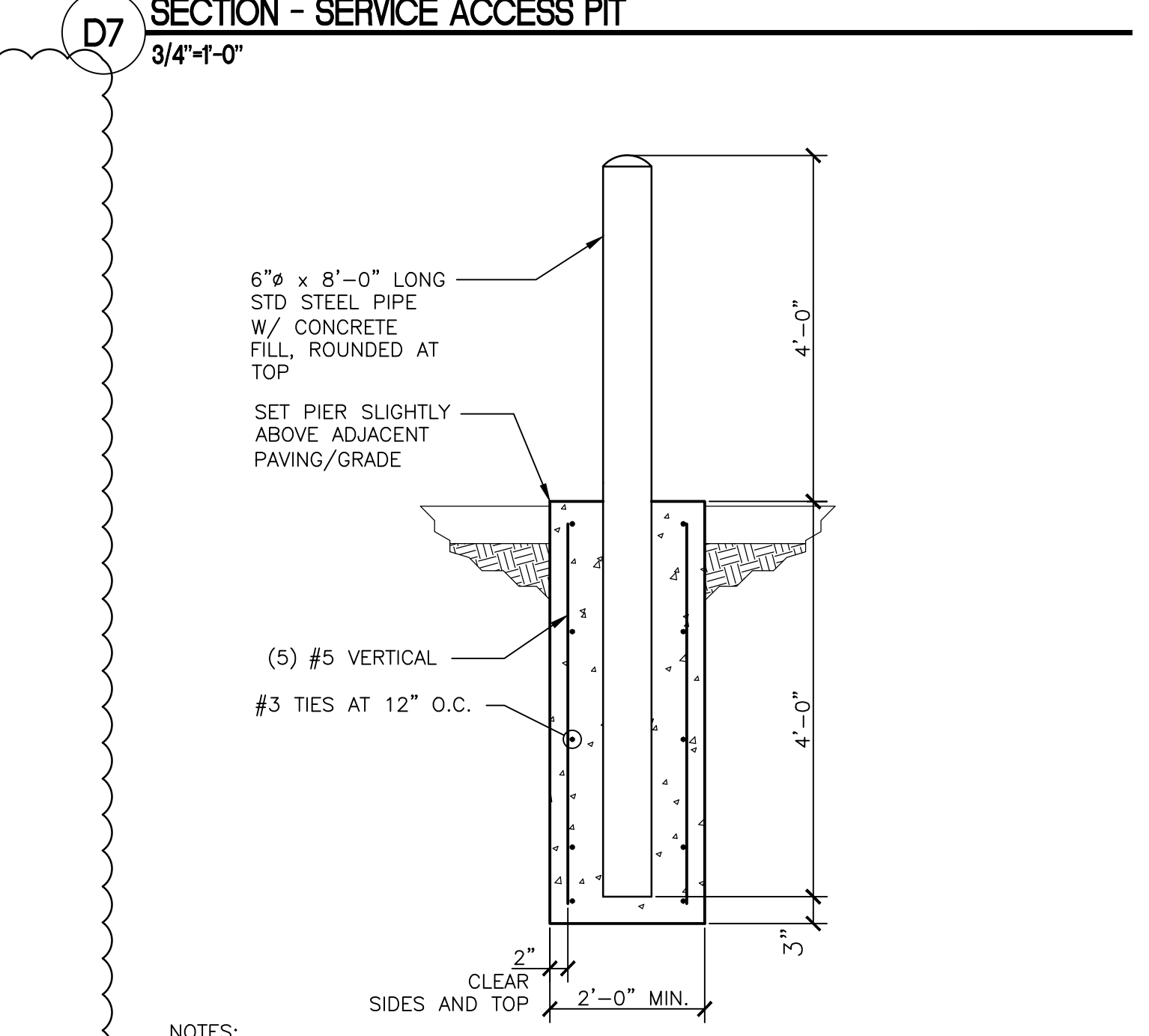
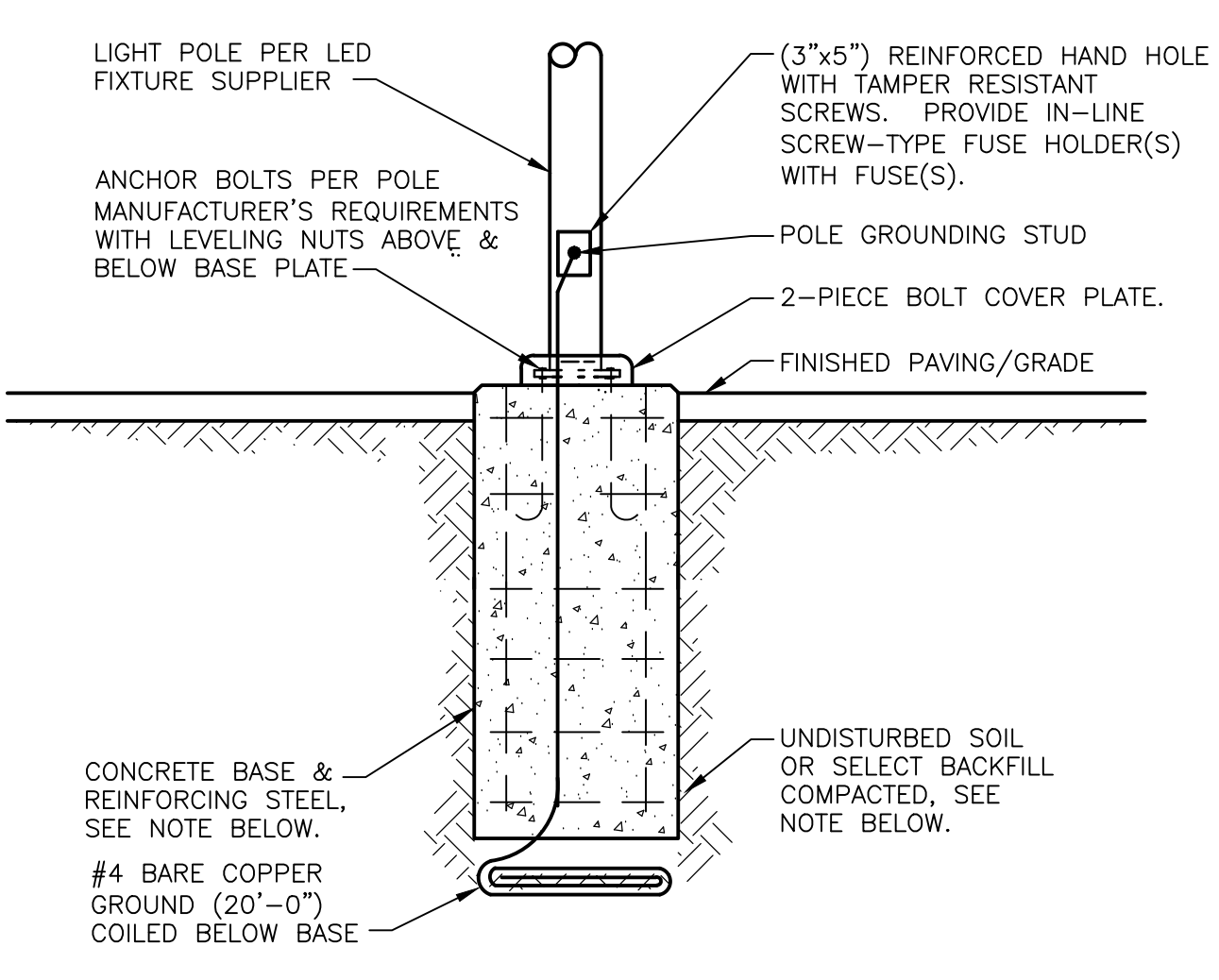
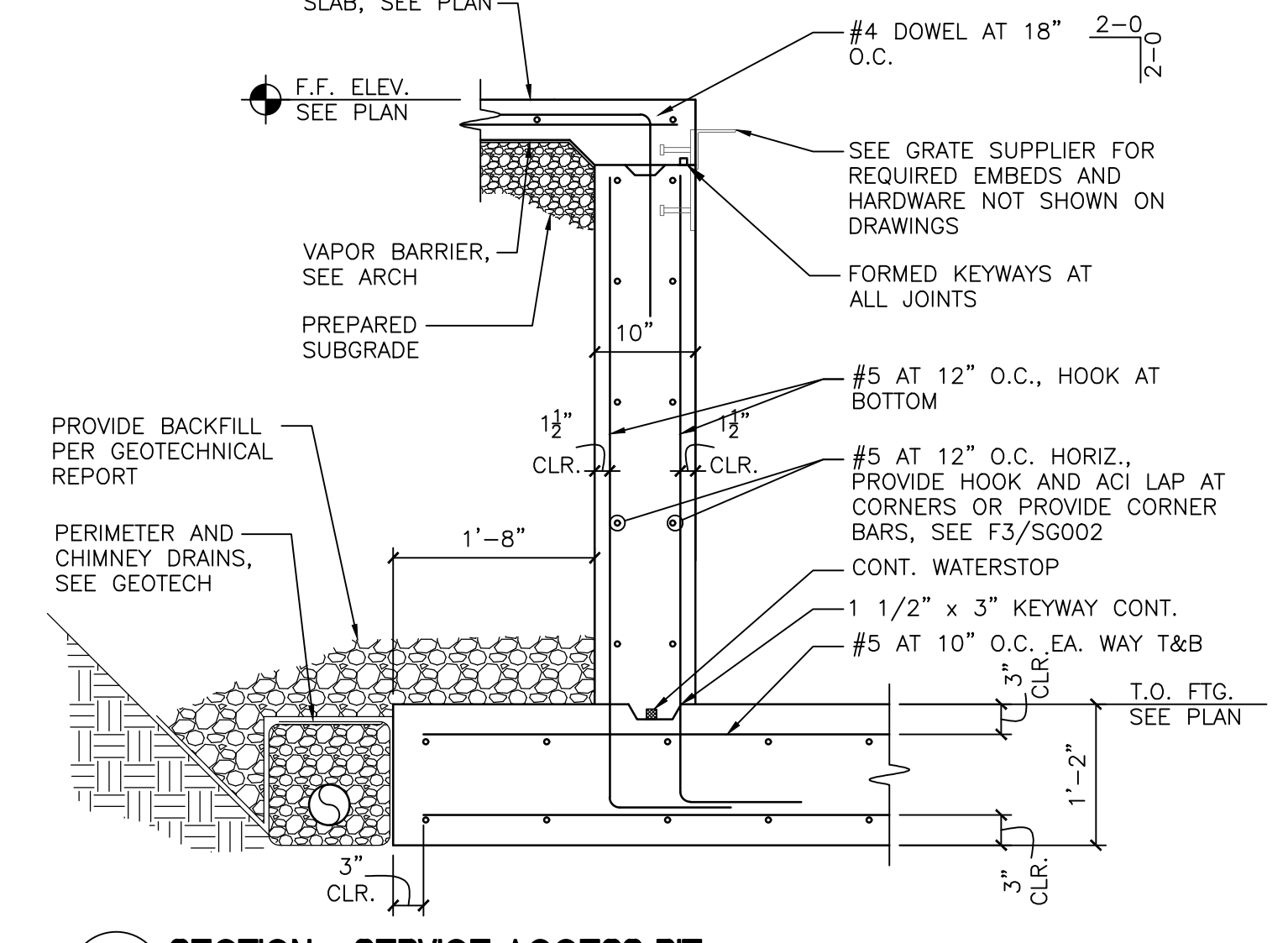
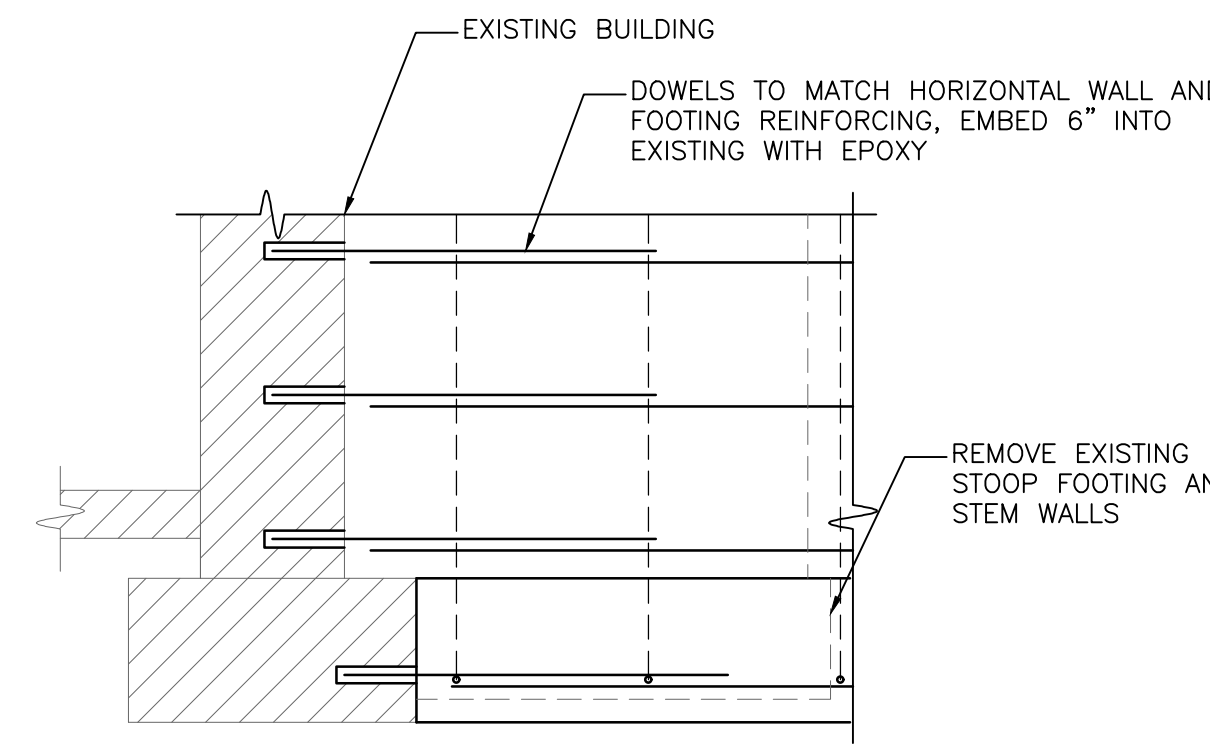
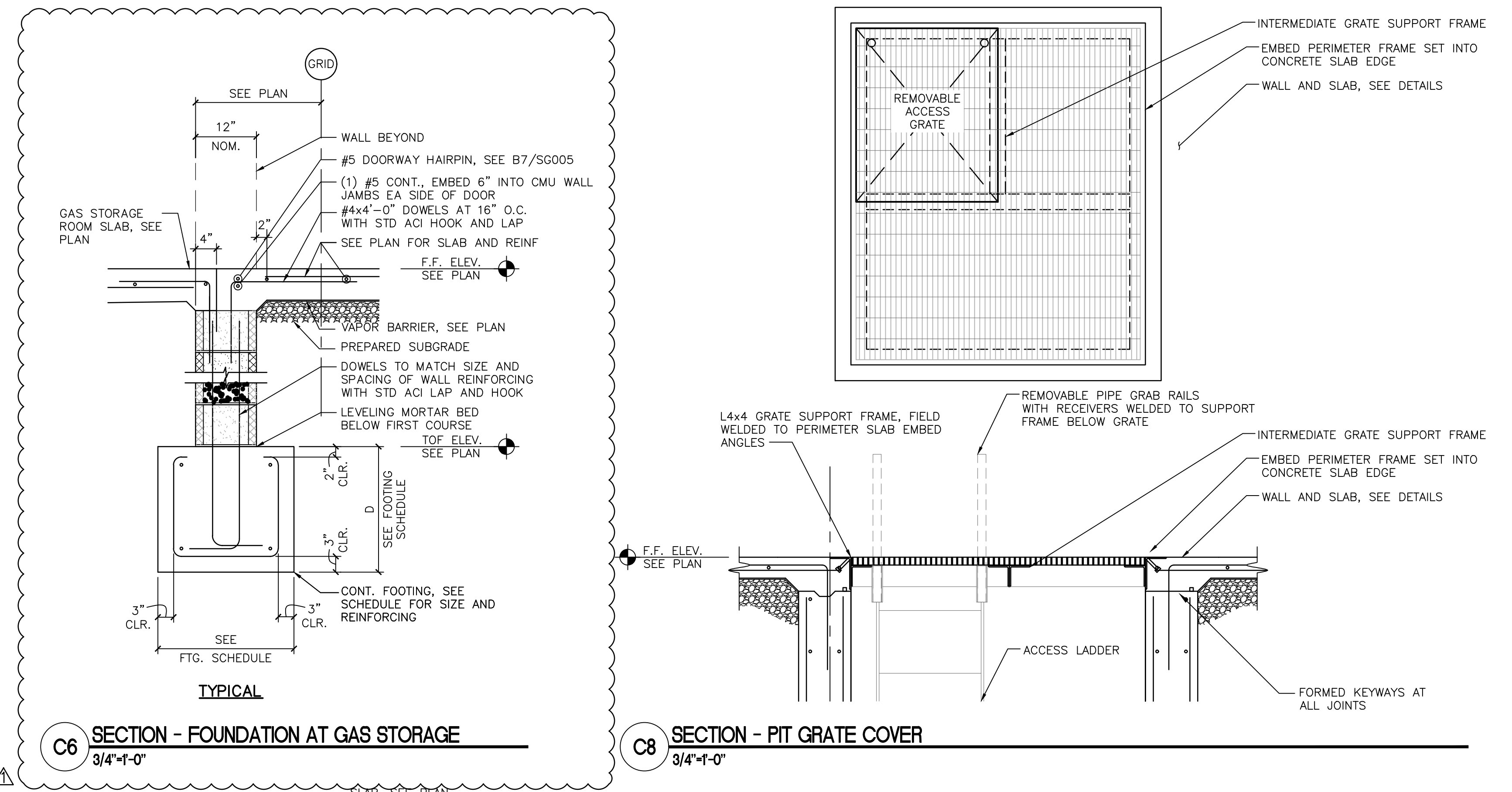
VA U.S. Department of Veterans Affairs

Drawing Title	Phase
FOUNDATION DETAILS	100% CONSTRUCTION DOCUMENTS
Approved: Project Director	FULLY SPRINKLERED

Project Title	Project Number
DESIGN REPLACE BOILER PLANT	438-22-900
Location	Building Number
SIoux FALLS VAMC SIoux FALLS, SD 57105	12
Issue Date	Drawing Number
08-09-2024	SB301
Checked	Drawn
TWW	DRW

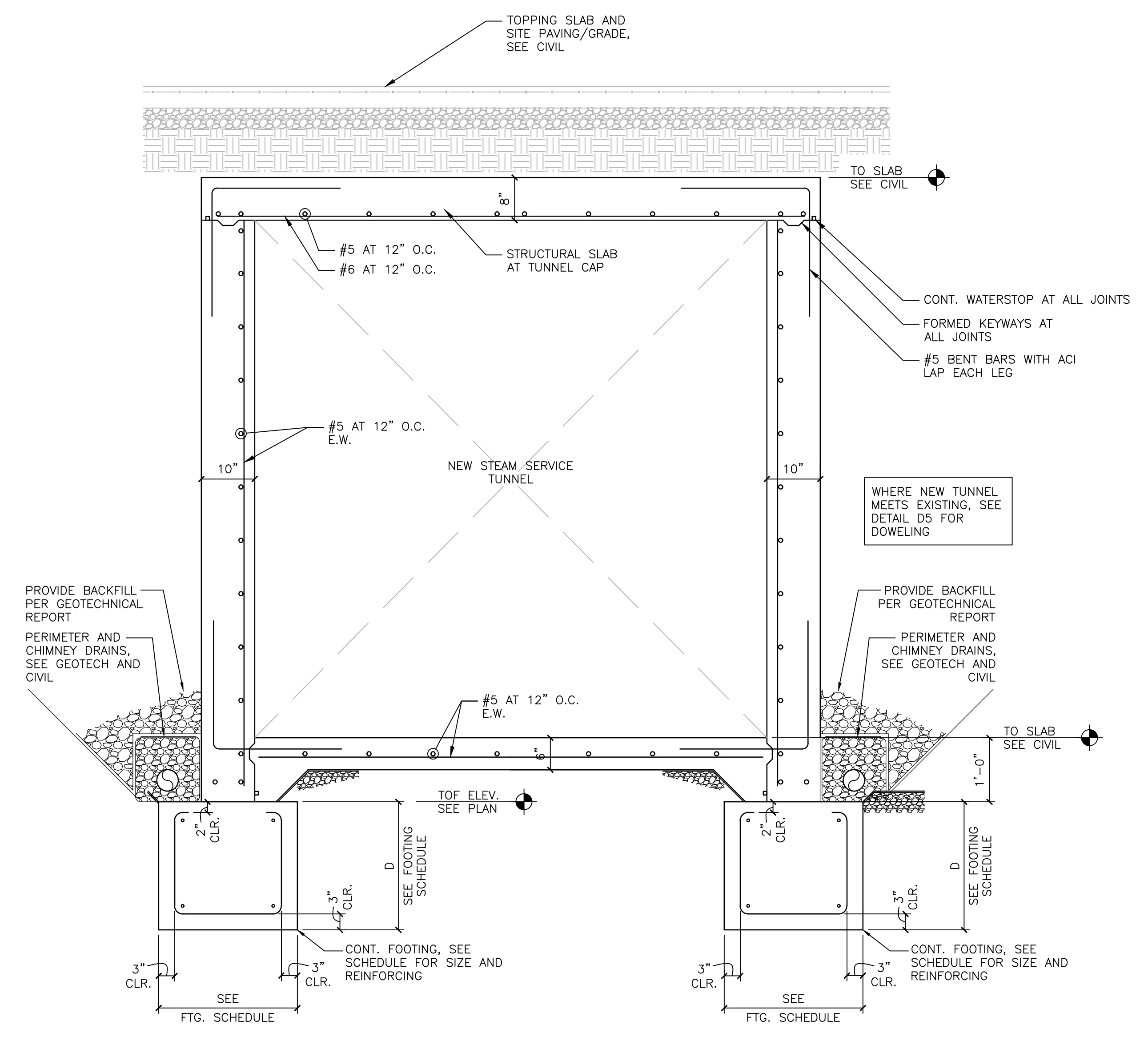
Project Title	Project Number
DESIGN REPLACE BOILER PLANT	438-22-900
Location	Building Number
SIoux FALLS VAMC SIoux FALLS, SD 57105	12
Issue Date	Drawing Number
08-09-2024	SB301
Checked	Drawn
TWW	DRW

A
B
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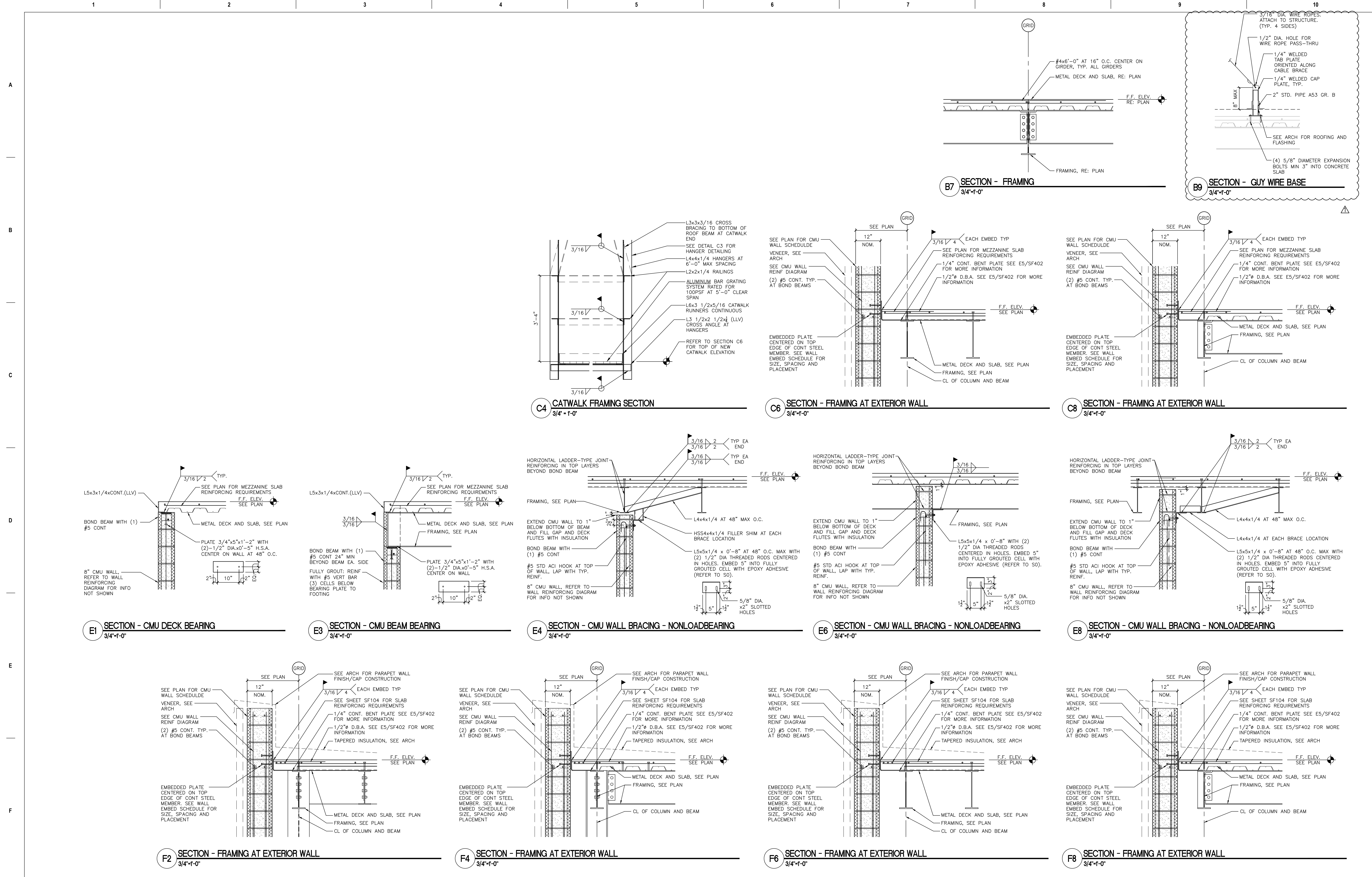


- NOTES:**
- POST BARRICADES SHALL BE PAINTED WITH ONE PRIME COAT OF RED OXIDE (PAINT NO.1). ONE FINISH COAT OF HIGH VISIBLE YELLOW ENAMEL AND STRIPES CONSISTING OF 4" BANDS OF BLACK/WHITE DIAGONAL STRIPED REFLECTOR TAPE SHALL BE USED UNLESS OTHERWISE SPECIFIED ON THE PLANS.
 - FINISH COLOR COMBINATIONS, OTHER THAN THAT SPECIFIED ABOVE, SHALL BE SUBMITTED TO THE AGENCY FOR APPROVAL.
 - BOLLARDS TO BE SPACED AT 4'-0" MAX CLEAR SPACING WHEN IN ARRAY.

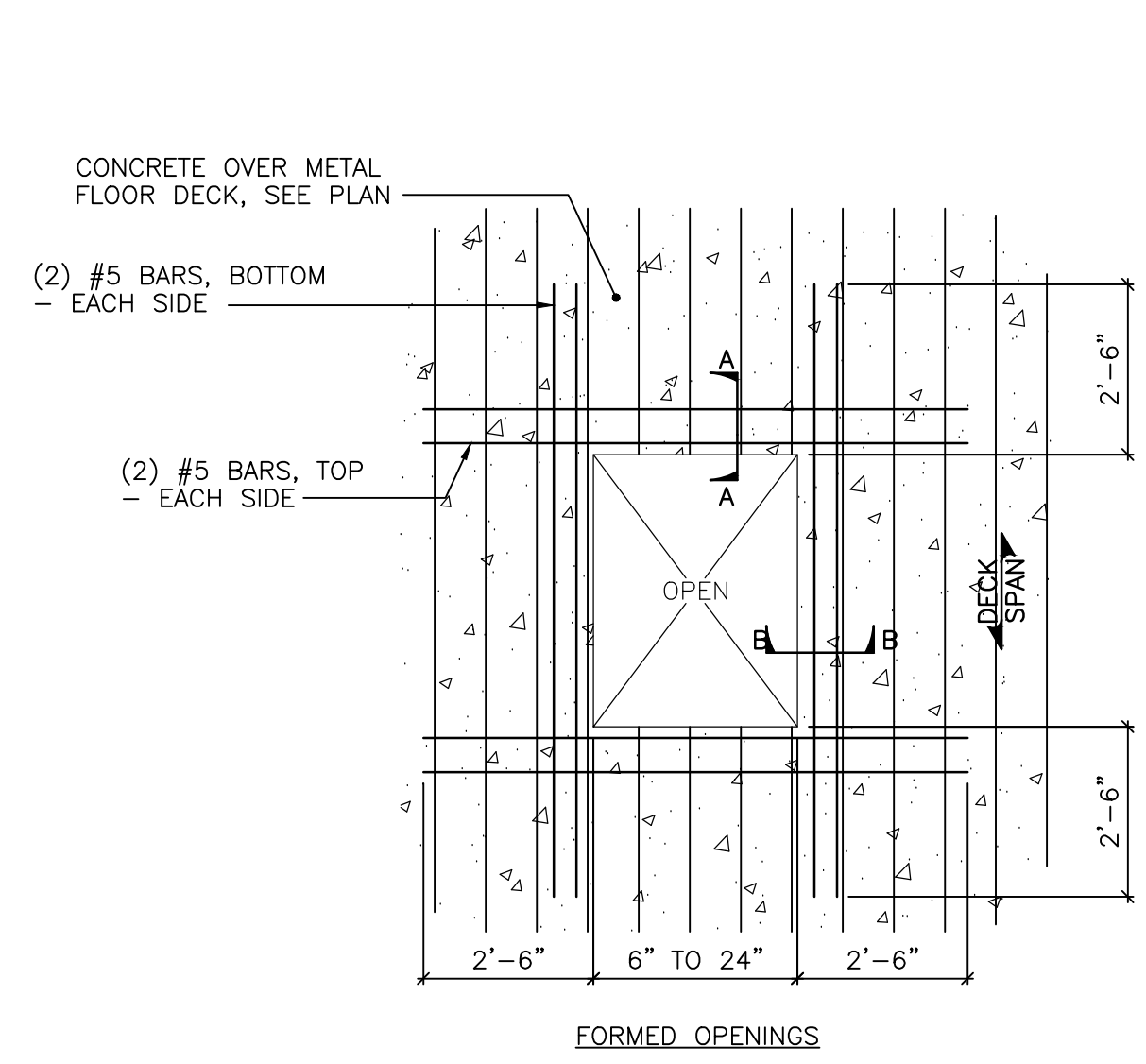
- GENERAL NOTES:**
- BACKFILL, CONCRETE, REINFORCING STEEL, AND ANCHOR BOLTS ARE SHOWN FOR REFERENCE ONLY. ACTUAL DIMENSIONS AND REINFORCING ARE AS REQUIRED BY POLE SUPPLIER FOR FIXTURE HEIGHT AND TYPE. FOR BIDDING PURPOSES ASSUME 24" DIA. PIER 5' DEEP WITH (6) #5 VERT AND #3 TIES AT 12" O.C.
 - PIER SUPPLIER: FOR DESIGN OF POLE, BASE AND PIER, SEISMIC DESIGN CATEGORY B, EQUIVALENT WIND SPEED 90 MPH.



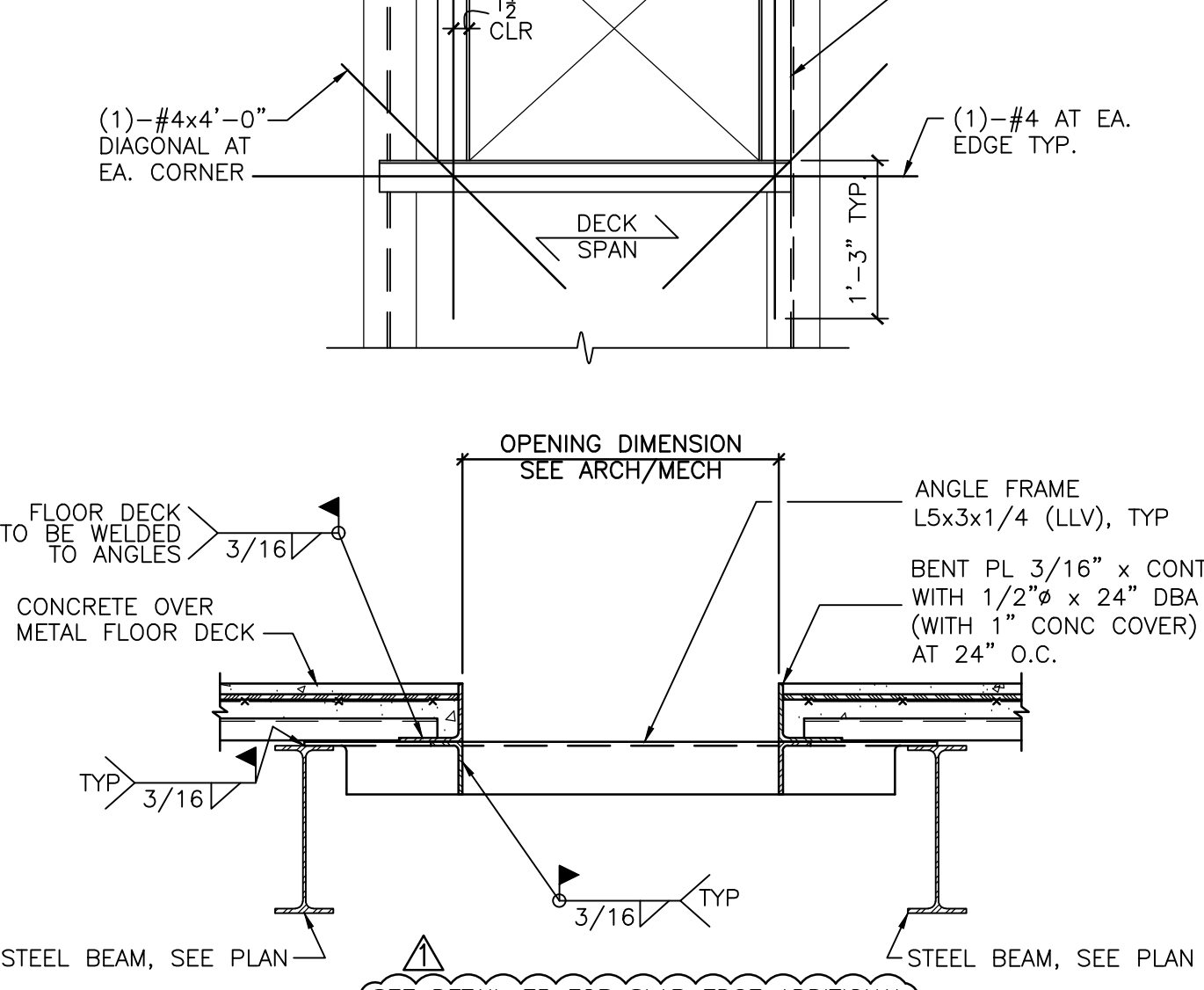
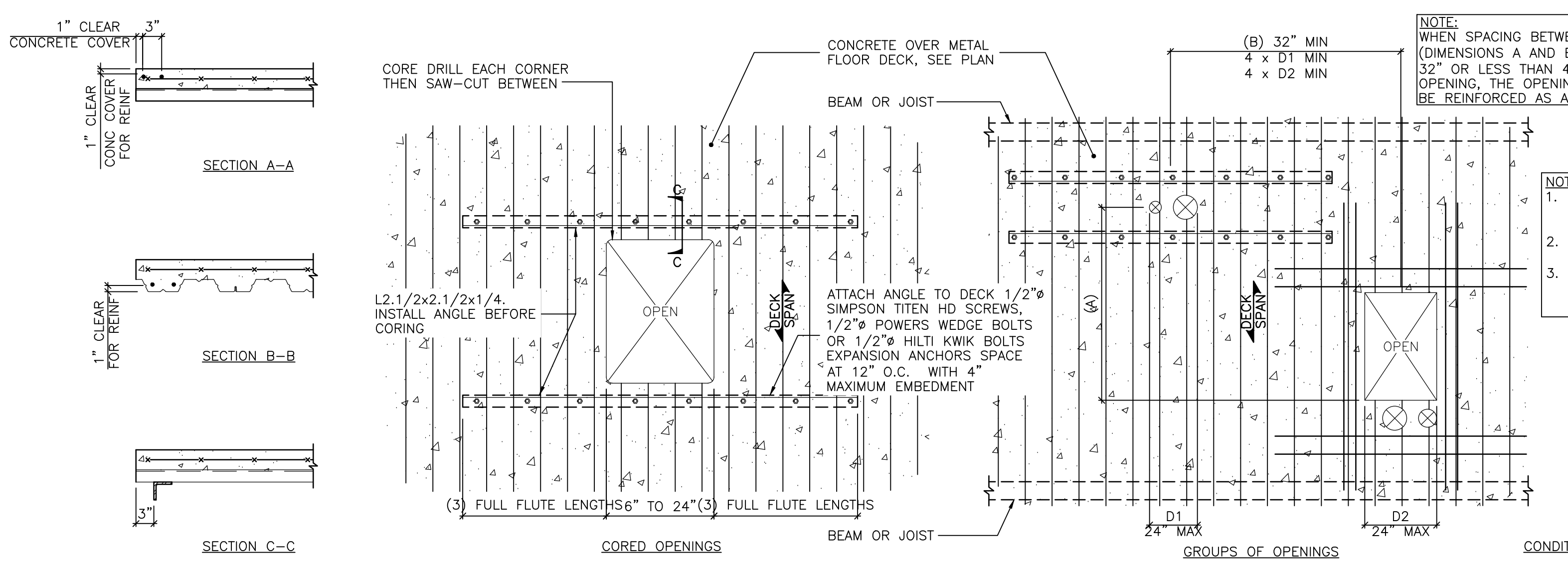
ADDENDUM 1	08-09-24	CONSULTANT	ARCHITECT/ENGINEER OF RECORD	STAMP	Office of Construction and Facilities Management	Drawing Title	Phase	Project Title	Project Number
		MOON TREE CONSULTING	paradigm	STATE OF KENTUCKY DAVID R. WALTON 31109 LICENSED PROFESSIONAL ENGINEER	VA U.S. Department of Veterans Affairs	FOUNDATION DETAILS	100% CONSTRUCTION DOCUMENTS	DESIGN REPLACE BOILER PLANT	438-22-900
Revisions:	Date:	1808 DEEP CREEK RD. OKC, OK 73131 918.527.7166 INFO@MOONTREELLC.COM	200 Envoy Circle, Suite 201, Louisville KY 40299 - www.paradigmusa.com			Approved: Project Director	FULLY SPRINKLERED	Location SIOUX FALLS VAMC SIOUX FALLS, SD 57105	Building Number 12
								Issue Date 08-09-2024	Drawing Number SB302
								Checked TWW	Drawn DRW



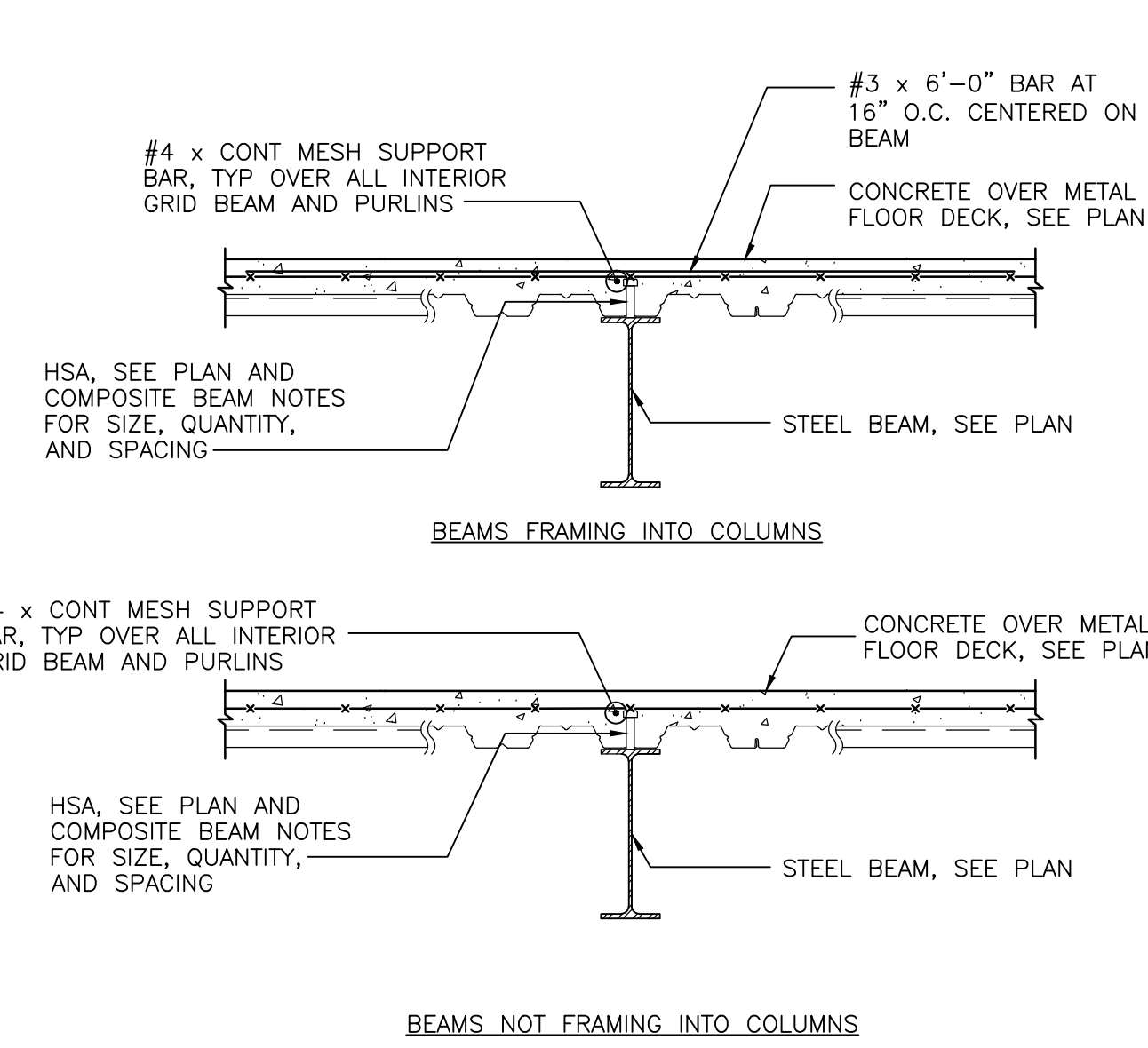
ADDENDUM 1 08-09-24 Revisions: _____ Date: _____	CONSULTANT MOON TREE CONSULTING 1808 DEEP CREEK RD, OKC, OK 73131 918.527.7166 INFO@MOONTREELLC.COM	ARCHITECT/ENGINEER OF RECORD paradigm Architecture Engineering Design-Build 200 Envoy Circle, Suite 201, Louisville KY 40299 - www.paradigmuso.com	STAMP 	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title FRAMING DETAILS Approved: Project Director	Phase 100% CONSTRUCTION DOCUMENTS FULLY SPRINKLERED	Project Title DESIGN REPLACE BOILER PLANT Location SIoux FALLS VAMC SIoux FALLS, SD 57065	Project Number 438-22-900 Building Number 12 Drawing Number SF401
	Issue Date 08-09-2024	Checked TWW	Drawn DRW					



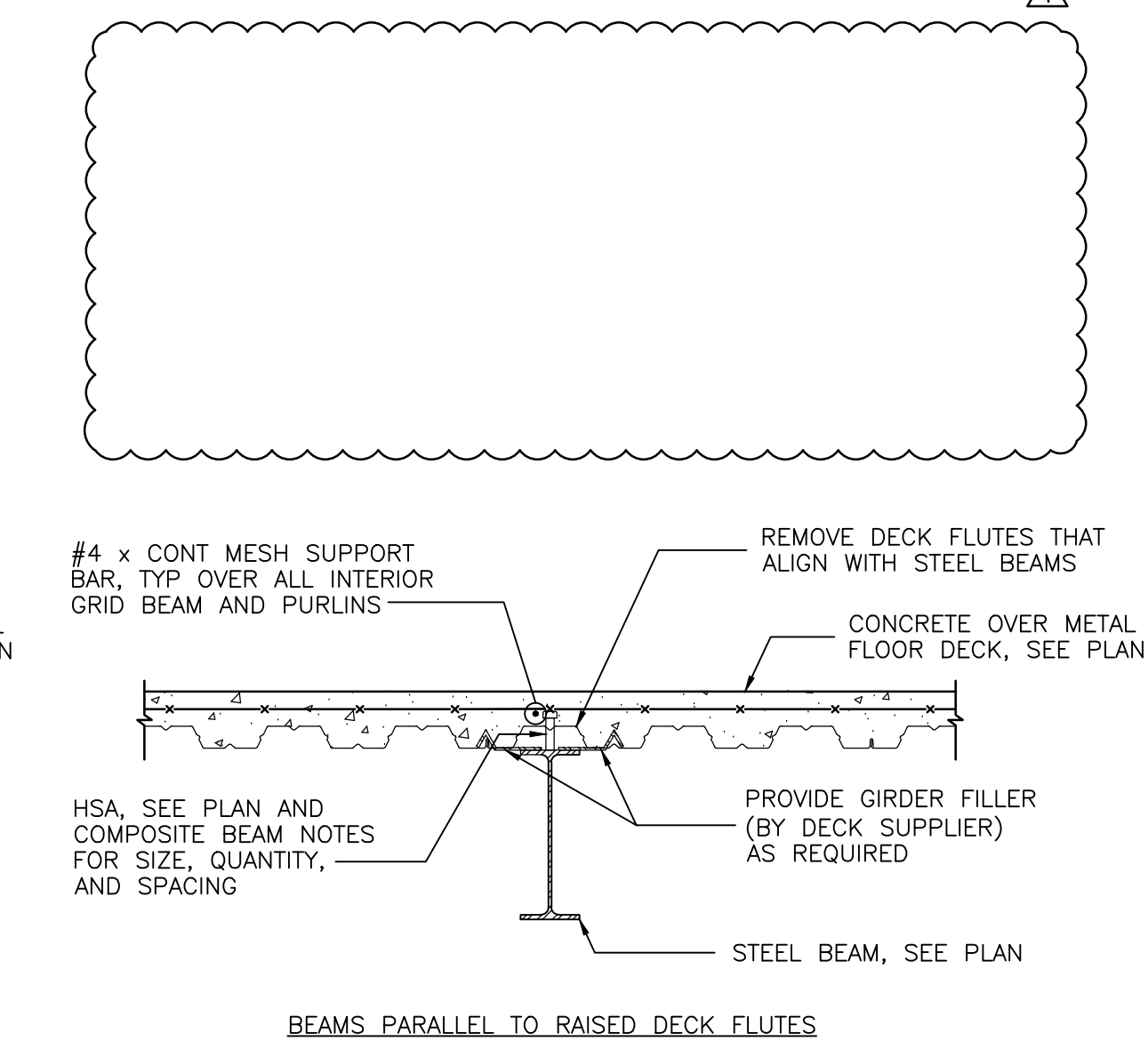
C2 MISCELLANEOUS SMALL OPENINGS IN FLOOR SLAB (UP TO 24')
3/4"-1'-0"



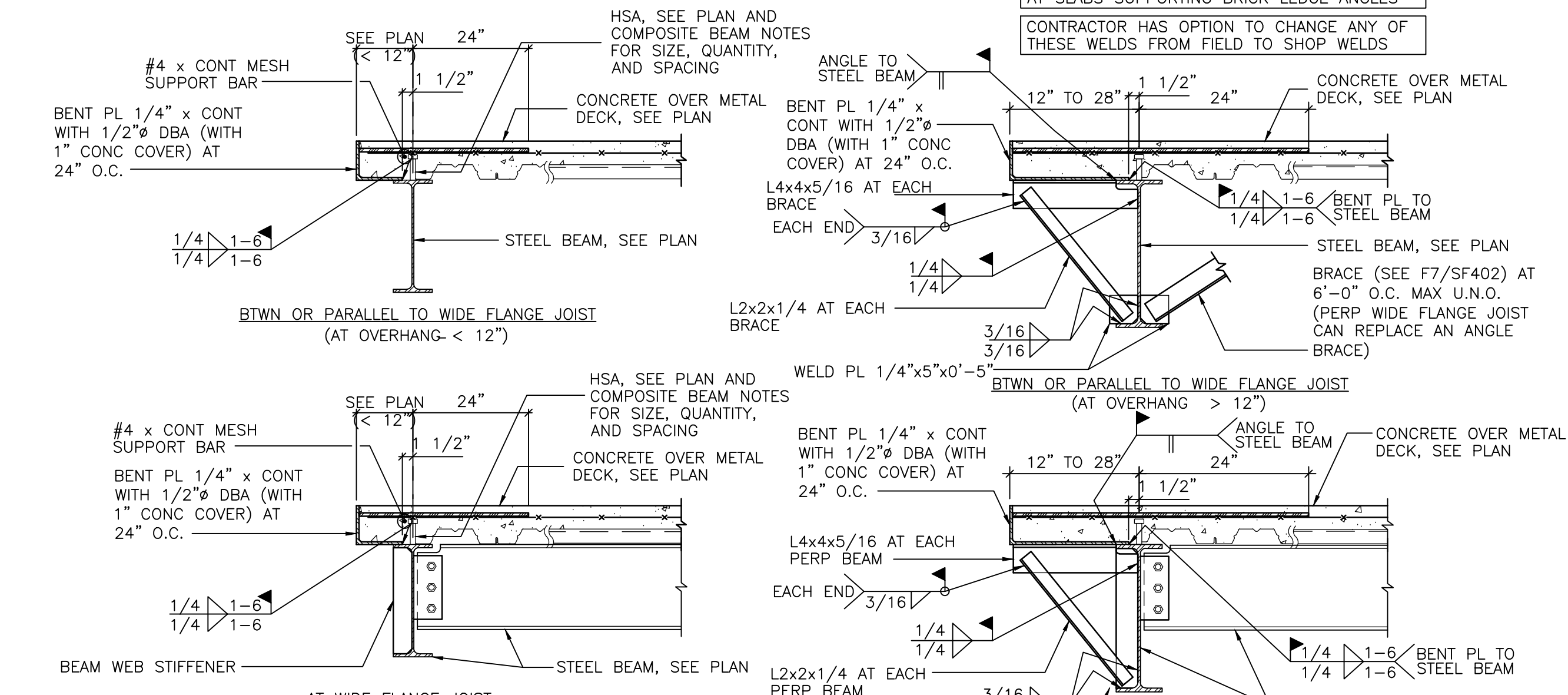
C9 TYPICAL FLOOR OPENING DETAIL (OPENING > 24')
3/4"-1'-0"



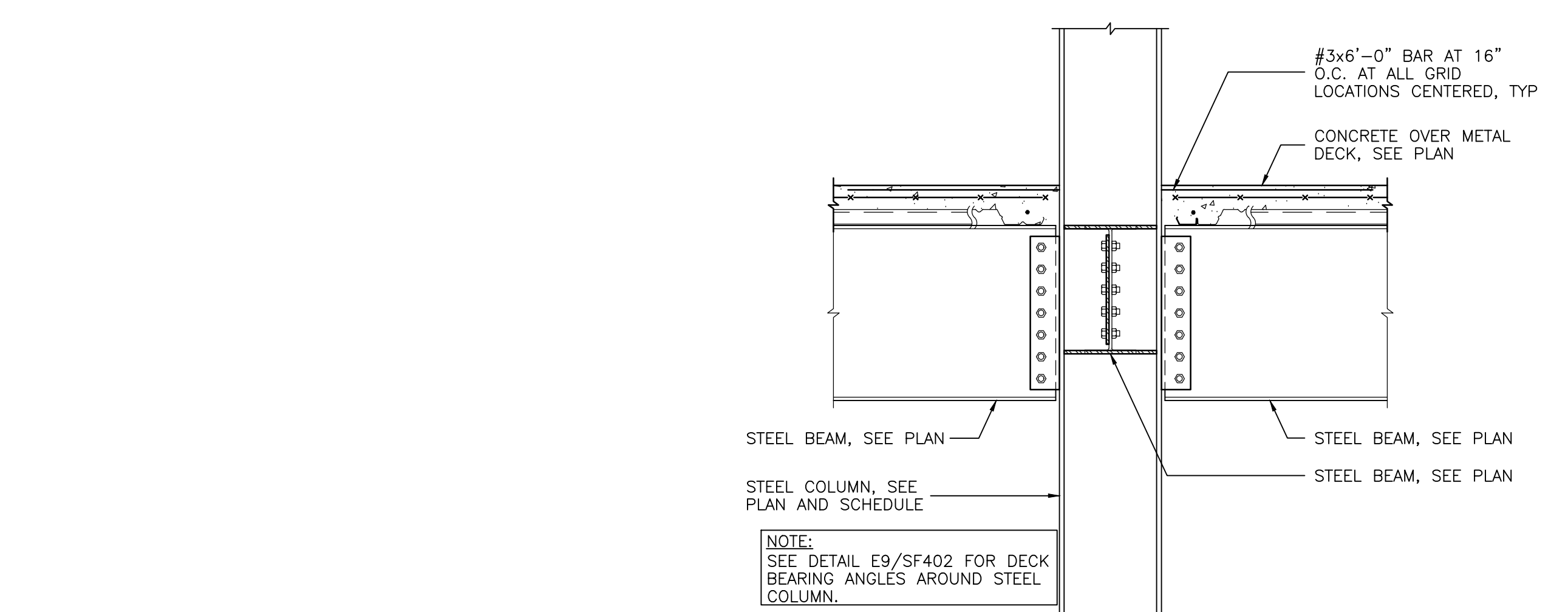
E2 TYPICAL COMPOSITE BEAM DETAILS
3/4"-1'-0"



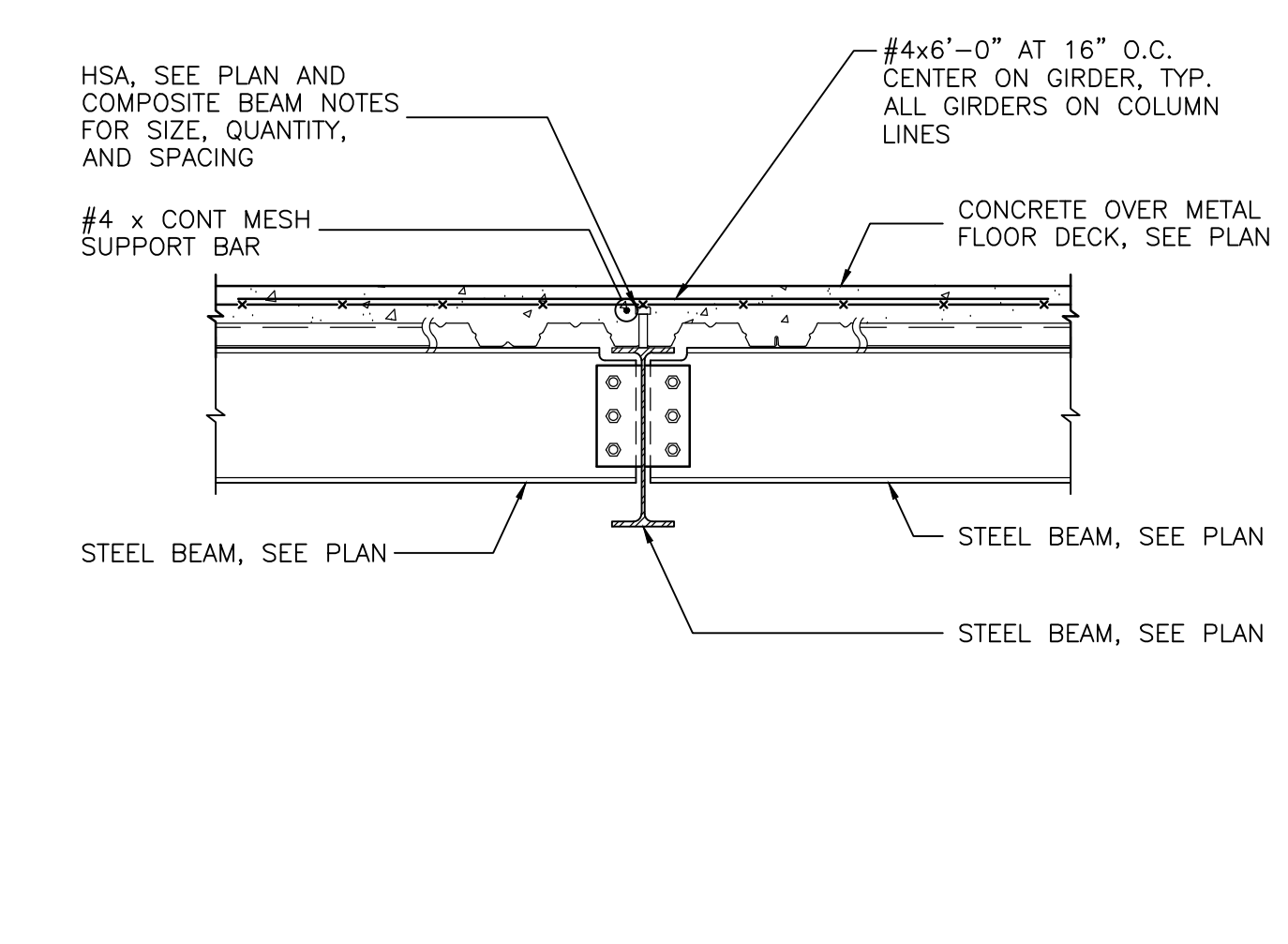
E5 TYPICAL SLAB EDGE DETAIL
3/4"-1'-0"



E9 TYPICAL DECK BEARING ANGLES AT STEEL COLUMN
3/4"-1'-0"



F3 TYPICAL STEEL BEAM CONNECTION DETAIL OF INTERIOR STEEL COLUMN
3/4"-1'-0"



F5 TYPICAL STEEL BEAM TO STEEL GIRDER CONNECTION
3/4"-1'-0"

F7 NOT USED
3/4"-1'-0"

F9 NOT USED
3/4"-1'-0"

ADDENDUM 1	08-09-24
Revisions:	Date:

CONSULTANT

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Drawing Title	FRAMING DETAILS
Approved: Project Director	

Phase	100% CONSTRUCTION DOCUMENTS
Project Title	DESIGN REPLACE BOILER PLANT
Location	SIoux FALLS VAMC SIoux FALLS, SD 57105
Issue Date	08-09-2024
Checked	TWW
Drawn	DRW

Project Number	438-22-900
Building Number	12
Drawing Number	SF402