

LEGEND

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
●	Rain Bird 1804-PRS w/ MPR Nozzles Turf Spray 4.0" Pop-Up Sprinkler with Co-Molded Wiper Seal, 1/2" NPT Female Threaded Inlet, Pressure Regulating.	19
○	Rain Bird R-VAN14 1804-SAM-PRS Turf Rotary, 45-270 degrees and 360 degrees, Hand Adjustable Multi-Stream Rotary w/1800 turf spray body on 4" pop-up, with check valve and 45 psi in-stem pressure regulator, 1/2" NPT Female Threaded Inlet.	7
●	Rain Bird R-VAN18 1804-SAM-PRS Turf Rotary, 45-270 degrees and 360 degrees, Hand Adjustable Multi-Stream Rotary w/1800 turf spray body on 4" pop-up, with check valve and 45 psi in-stem pressure regulator, 1/2" NPT Female Threaded Inlet.	25
○	Rain Bird R-VAN24 1804-SAM-PRS Turf Rotary, 45-270 degrees and 360 degrees, Hand Adjustable Multi-Stream Rotary w/1800 turf spray body on 4" pop-up, with check valve and 45 psi in-stem pressure regulator, 1/2" NPT Female Threaded Inlet.	12
■	Rain Bird XC2-100-PRB-COM Wide Flow Drip Control Kit for Commercial Applications, 1" Ball Valve with 1" PESB Valve and 1" Pressure Regulating 40psi Quick-Check Basket Filter, 0.3 GPM-20 GPM	6
▨	Area to Receive Dripline Rain Bird XFS-06-12 XFS Sub-Surface Pressure Compensating Dripline w/Copper Shield Technology, 0.6 GPH emitters at 12" O.C. Laterals spaced at 12" apart, with emitters offset for triangular pattern. UV Resistant. Specify XF insert fittings.	1,743 L.F.
⊕	Rain Bird PEB-PRS-D 1" Plastic Industrial Valves, With Pressure Regulator Module.	8
■	Rain Bird 44-RC 1" Brass Quick-Coupling Valve, with Corrosion-Resistant Stainless Steel Spring, Thermoplastic Rubber Cover, and 2-Piece Body, RW Isolation Valve (Line Sized)	4
⊕	Bermad C30 Air/Vacuum Relief Valve (1")	2
⊕	Existing Controller	1
POC	Point of Connection 3"	1
—	Irrigation Lateral Line: PVC Class 200 SDR 21	918.9 L.F.
—	Irrigation Mainline: PVC Schedule 80	333.5 L.F.
—	Pipe Sleeve: PVC Schedule 80	22.9 L.F.

Note: All quantities are for reference only. Contractor responsible for actual counts.

DESIGN NOTES

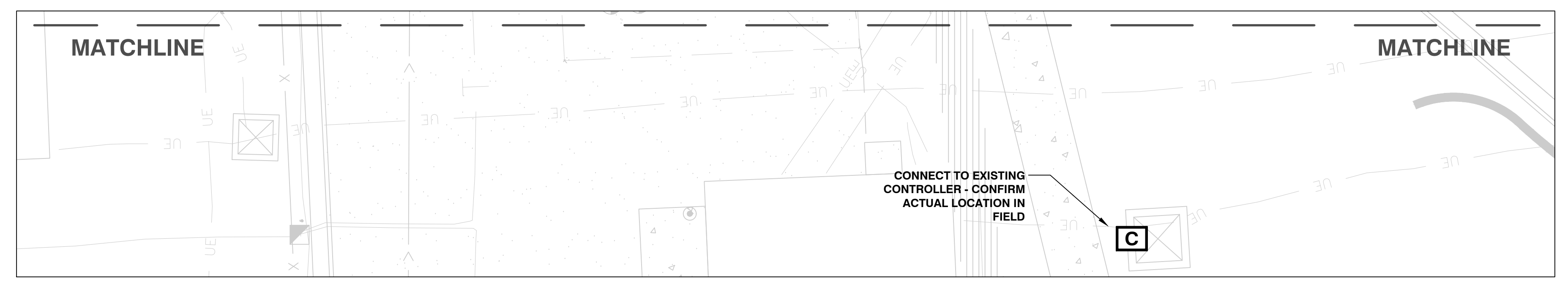
- ALL PRODUCT APPLICATIONS AND INSTALLATIONS MUST MEET MANUFACTURER'S REQUIREMENTS.
- FLOW RATES THROUGH PVC PIPING NOT TO EXCEED MANUFACTURER'S RECOMMENDATIONS.
- PIPING AS SHOWN IS DIAGRAMMATIC IN NATURE. ALL PIPING TO BE LOCATED WITHIN OWNER'S PROPERTY LINES.
- CONTRACTOR IS RESPONSIBLE FOR PROPER OPERATION OF IRRIGATION SYSTEM. SYSTEM SHALL NOT EXCEED MANUFACTURER'S RECOMMENDATIONS AND SHALL WATER ALL LANDSCAPED AREAS NOTED. IRRIGATION PLAN IS INTENDED TO INCLUDE EVERYTHING NECESSARY TO THE PROPER OPERATION OF SAID IRRIGATION SYSTEM. IF ADJUSTMENTS ARE REQUIRED, CONTRACTOR SHALL MAKE ADJUSTMENTS FOR SAME.
- IRRIGATION SPECIFICATIONS SHALL HAVE PRECEDENCE OVER IRRIGATION PLANS. ANY DISCREPANCIES BETWEEN THESE TWO DOCUMENTS MUST BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE BEFORE BID DUE DATE.
- IT IS THE INTENT TO KEEP IRRIGATION WATER OFF OF ALL BUILDINGS, SIDEWALKS, SIGNS AND PARKING AREAS. IT WILL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FIELD TUNE EACH SPRINKLER AS TO KEEPING IRRIGATION ADJUSTED TO LANDSCAPED AREAS ONLY. IT WILL ALSO BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO SUPPLY THE OWNER WITH AN OPERATING SCHEDULE THAT WORKS WITH EXISTING PLANS AND ANY FIELD ADJUSTMENTS.
- IT IS THE INTENT OF THE IRRIGATION DESIGN TO ACHIEVE HEAD TO HEAD COVERAGE IN ALL LANDSCAPED AREAS AND TO MATCH SOIL AND PLANT MATERIAL WATERING NEEDS. IT WILL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO ADJUST FOR SAME.
- IRRIGATION CONTRACTOR TO LOCATE VALVE BOXES AWAY FROM ROAD/CURB AND AWAY FROM GRAVE SITES SO THEY ARE LESS VISUAL WHERE APPLICABLE.
- IRRIGATION CONTRACTOR SHALL PROVIDE OWNERS REPRESENTATIVE WITH ALL SHOP DRAWINGS AND SUBMITTALS OF PROPOSED IRRIGATION SYSTEM BEFORE INSTALLATION.

ELECTRICAL NOTES:

- ALL 120 V.A.C. POWER SPLICES AT FIELD SATELLITES, BY LICENSED ELECTRICIAN, AS PER CODE.
- ALL POWER WIRE TAPS AND CONNECTIONS SHALL CONFORM TO WITH LOCAL AND STATE CODES AND PERFORMED BY LICENSED ELECTRICIAN.
- 24" LOOP OF WIRE LOCATED BELOW EACH HEAD AND ELECTRIC VALVE.
- ALL 24 V.A.C. SECONDARY WIRING SHALL BE (RED) #14 HOT AND (WHITE) #12 COMMON FOR BURIAL APPLICATIONS. (ONE HOT WIRE PER VALVE) SEE SPECIFICATIONS.
- ALL WIRE SHALL HAVE ENOUGH SLACK AS TO ACCOMMODATE FOR EXPANSION AND/OR CONTRACTION.
- ALL WIRE TO BE UL APPROVED FOR DIRECT BURIAL.
- ALL 120 V.A.C. PRIMARY, AND 24 V.A.C. SECONDARY POWER TO BE INSTALLED AS PER STATE AND LOCAL CODES, SIZED AS PER PLAN WITH GROUND WIRE; MEETING N.E.C. REQUIREMENTS.

PROGRAM NOTES:

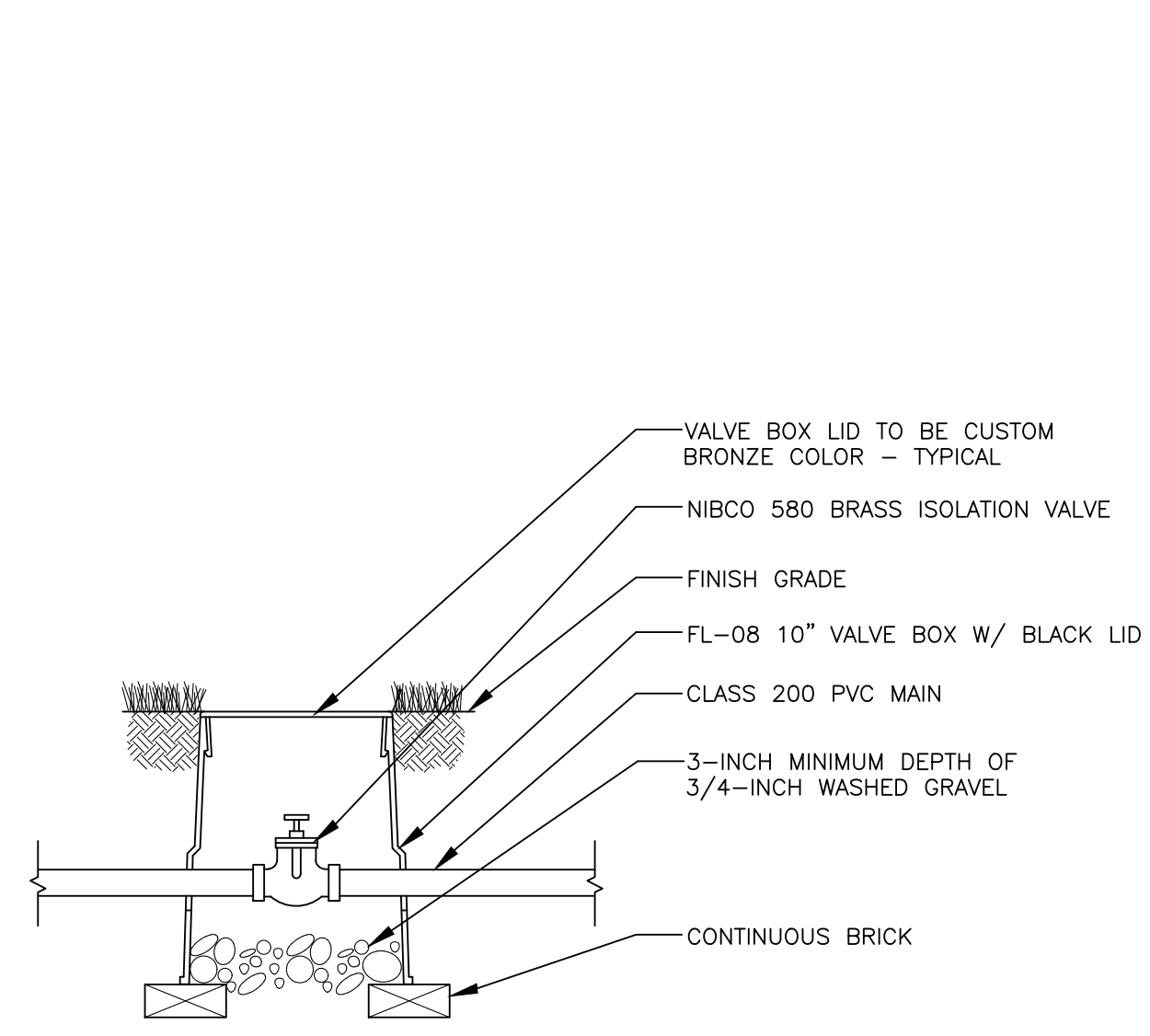
- ALL VALVES SHALL HAVE SINGLE #14 HOT WIRE RUNNING BACK TO RESPECTIVE SATELLITE. NO #12 COMMON WIRES SHALL BE MIXED WITH OTHER SATELLITES. CONTRACTOR SHALL SUPPLY IRRIGATION DESIGN CONSULTANT WITH AS-STAKED DRAWINGS AND ILLUSTRATE ALL 120 V.A.C. AND 24 V.A.C. WIRE ROUTING AS INSTALLED.



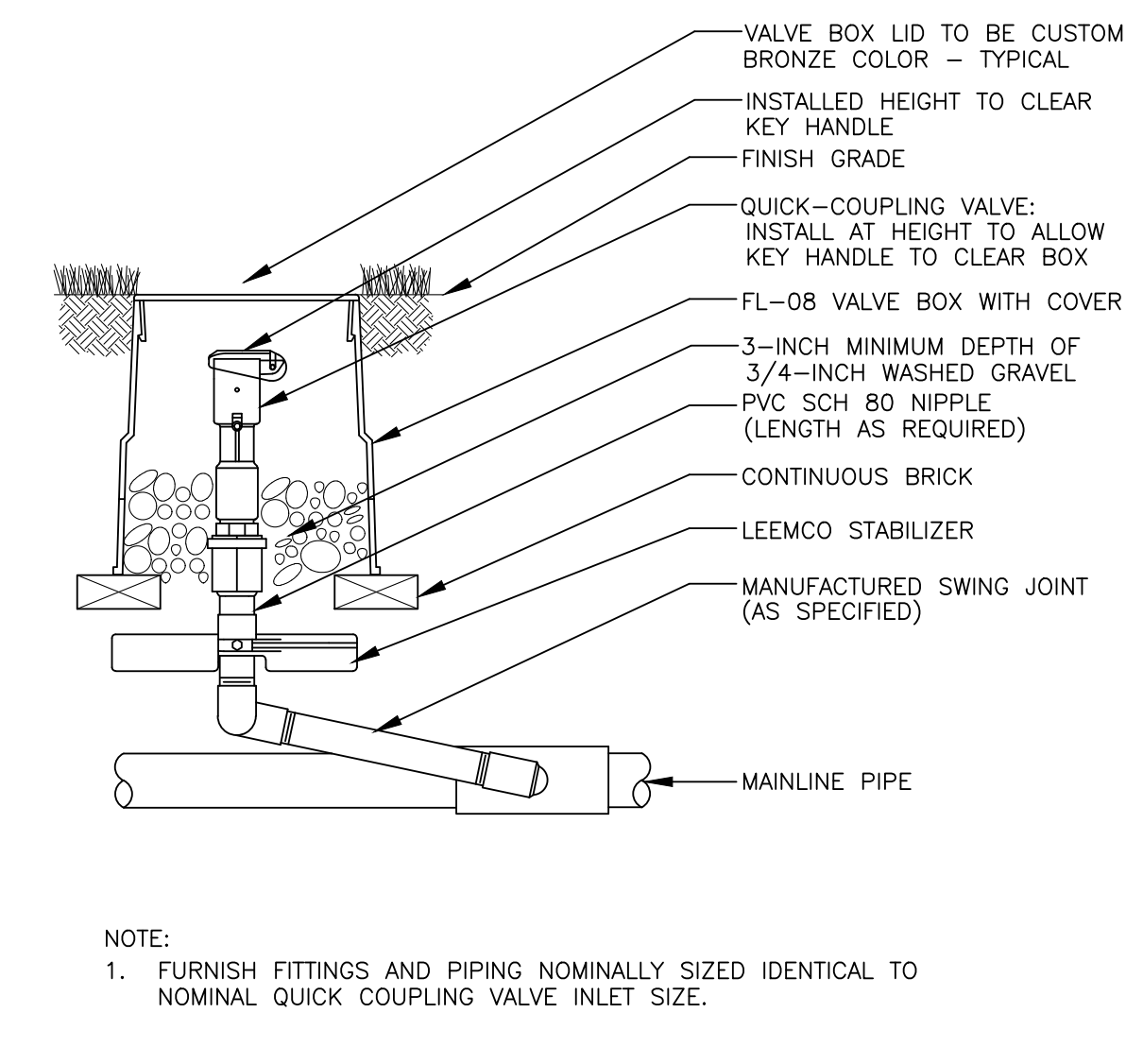
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VA FORM 08 - 6231

CONSULTANTS 		ARCHITECT/ENGINEER OF RECORD 13605 1st Ave. N. #100 Plymouth, MN 55441 P 763.412.4000 F 763.412.4090 ae-mn.com Anderson Engineering of Minnesota, LLC Proj # 16584		STAMP U.S. Department of Veterans Affairs	Drawing Title IRRIGATION PLAN	Phase BID DOCUMENTS	Project Title CONSTRUCT NEW SPS	Project Number 438-460
Revisions: _____ Date: _____				Approved: Project Director SIoux FALLS VA HEALTH CARE SYSTEM		Location SIOUX FALLS, SOUTH DAKOTA	Drawing Number IR101	
						Issue Date 02/14/2025	Checked _____ Drawn _____	

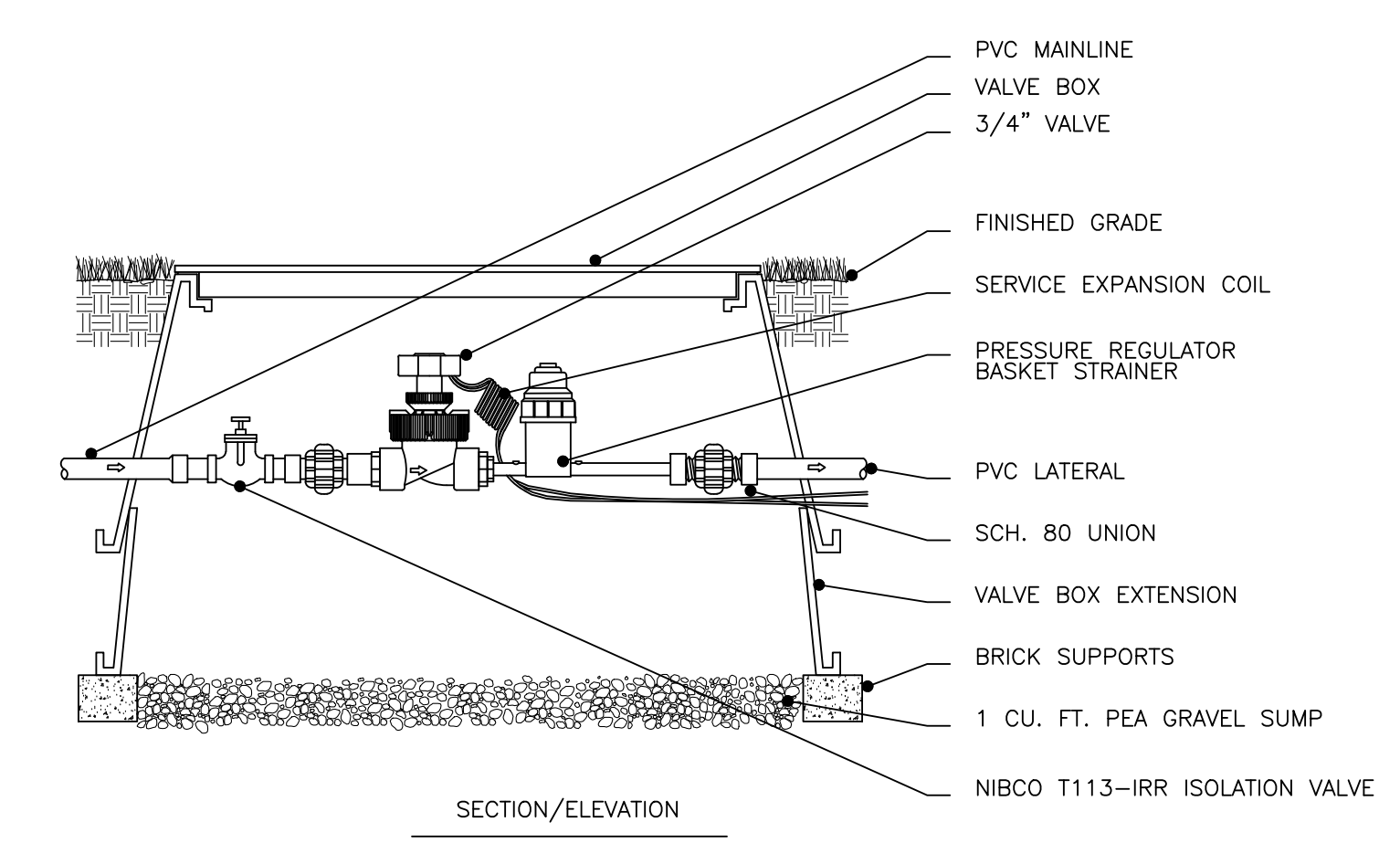
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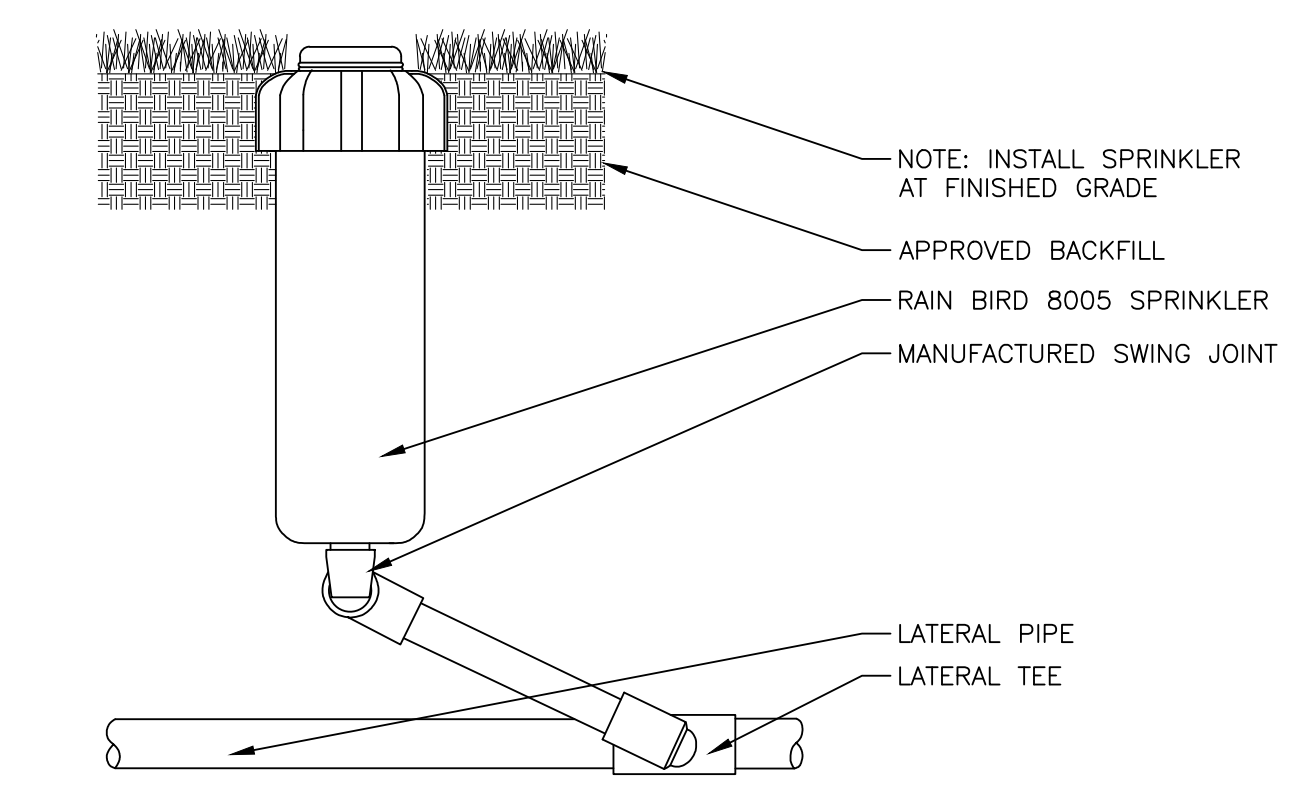
1 ISOLATION VALVE WITH BOX
SCALE: NONE



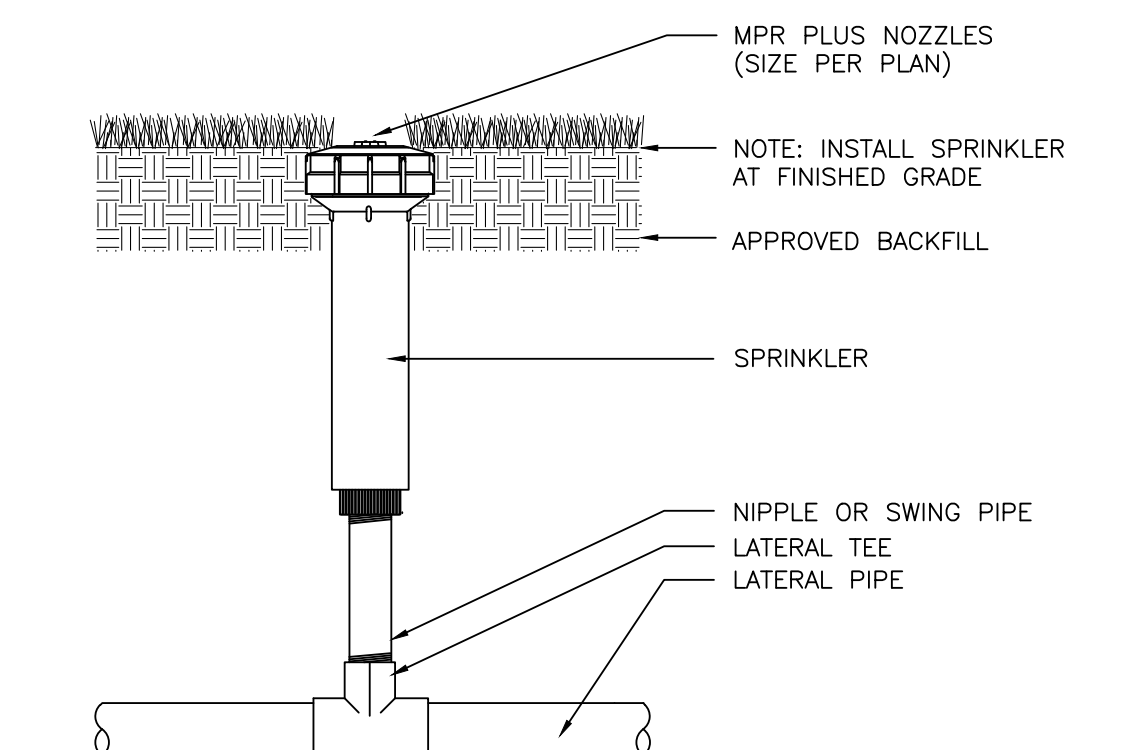
2 QUICK-COUPLING VALVE WITH STABILIZER
SCALE: NONE



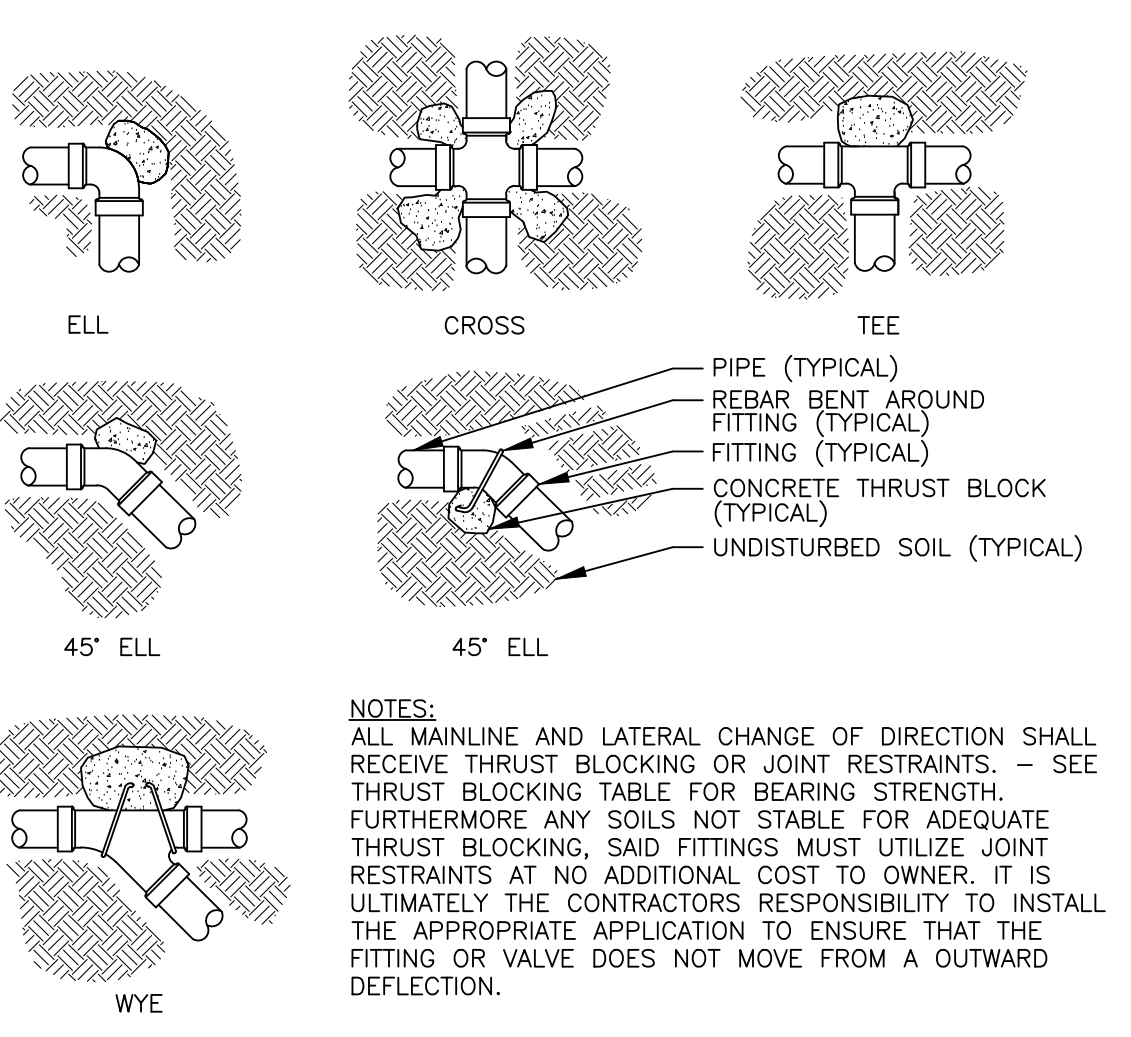
3 REMOTE CONTROL VALVE, PRESSURE REGULATOR & FILTER
SCALE: NONE



4 TURF ROTOR
SCALE: NONE

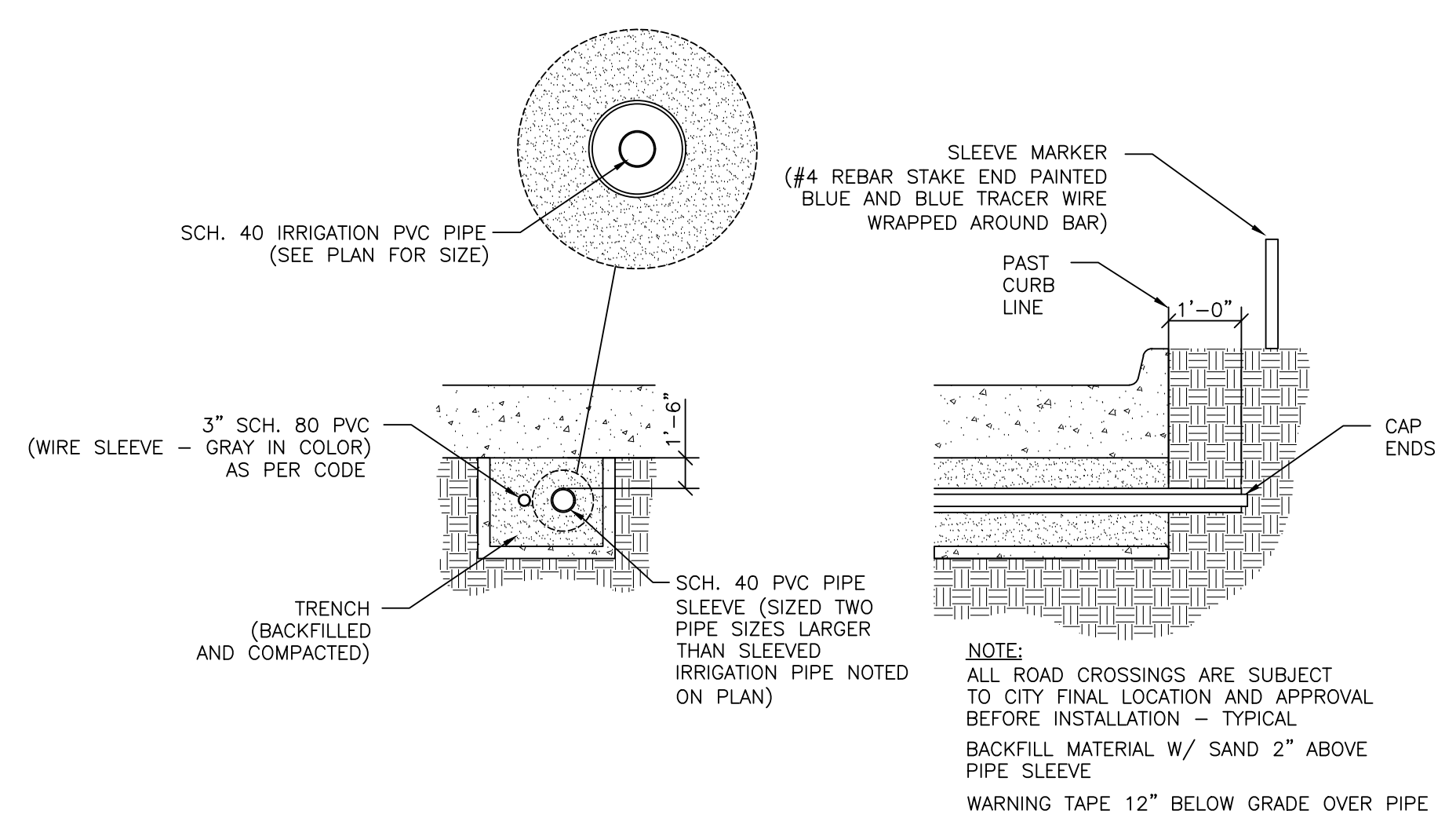


5 FIXED-SPRAY SPRINKLER
SCALE: NONE



6 THRUST BLOCK DETAIL
SCALE: NONE

THRUST BLOCKING				
STEP 1. MULTIPLY THE PRESSURE LEVEL DESIRED FOR TESTING BY THE APPROPRIATE VALUE SHOWN IN THE FOLLOWING TABLE:				
PIPE SIZE	DEAD END OR TEE	90° ELBOW	45° ELBOW	22.5° ELBOW
1.5"	2.94	4.16	2.25	1.15
2"	4.56	6.45	3.50	1.78
2.5"	6.65	9.40	5.10	2.60
3"	9.80	13.9	7.51	3.82
3.5"	12.8	18.1	9.81	4.99
4"	16.2	23.0	12.4	6.31
5"	24.7	35.0	18.9	9.63
6"	34.8	49.2	26.7	13.6
BASED ON POUNDS PER PSI WORKING PRESSURE.				
STEP 2. DETERMINE THE BEARING STRENGTH OF THE SOIL FROM THE TABLE BELOW:				
BEARING STRENGTH OF SOILS				
SOILS AND SAFE BEARING LOADS LBS. SQ. FT.				
SOUND SHALE	10,000			
CEMENTED GRAVEL AND SAND-DIFFICULT TO PICK	4,000			
COARSE AND FINE COMPACT SAND	3,000			
MEDIUM CLAY - CAN BE SPADED	2,000			
SOFT CLAY	1,000			
MUCK	0			
STEP 3. DIVIDE THE TOTAL THRUST OBTAINED IN STEP 1 BY THE BEARING STRENGTH OF THE SOIL. THIS GIVES THE SQUARE FEET OF AREA NEEDED.				



7 SLEEVING DETAIL
SCALE: NONE

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Revisions:	Date:

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Anderson Engineering of Minnesota, LLC | Proj # 16584

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title

IRRIGATION DETAILS

Approved: Project Director

SIoux FALLS VA HEALTH CARE SYSTEM

Phase

BID DOCUMENTS

Project Title

CONSTRUCT NEW SPS

Location

SIoux FALLS, SOUTH DAKOTA

Issue Date

02/14/2025

Checked

Drawn

Project Number

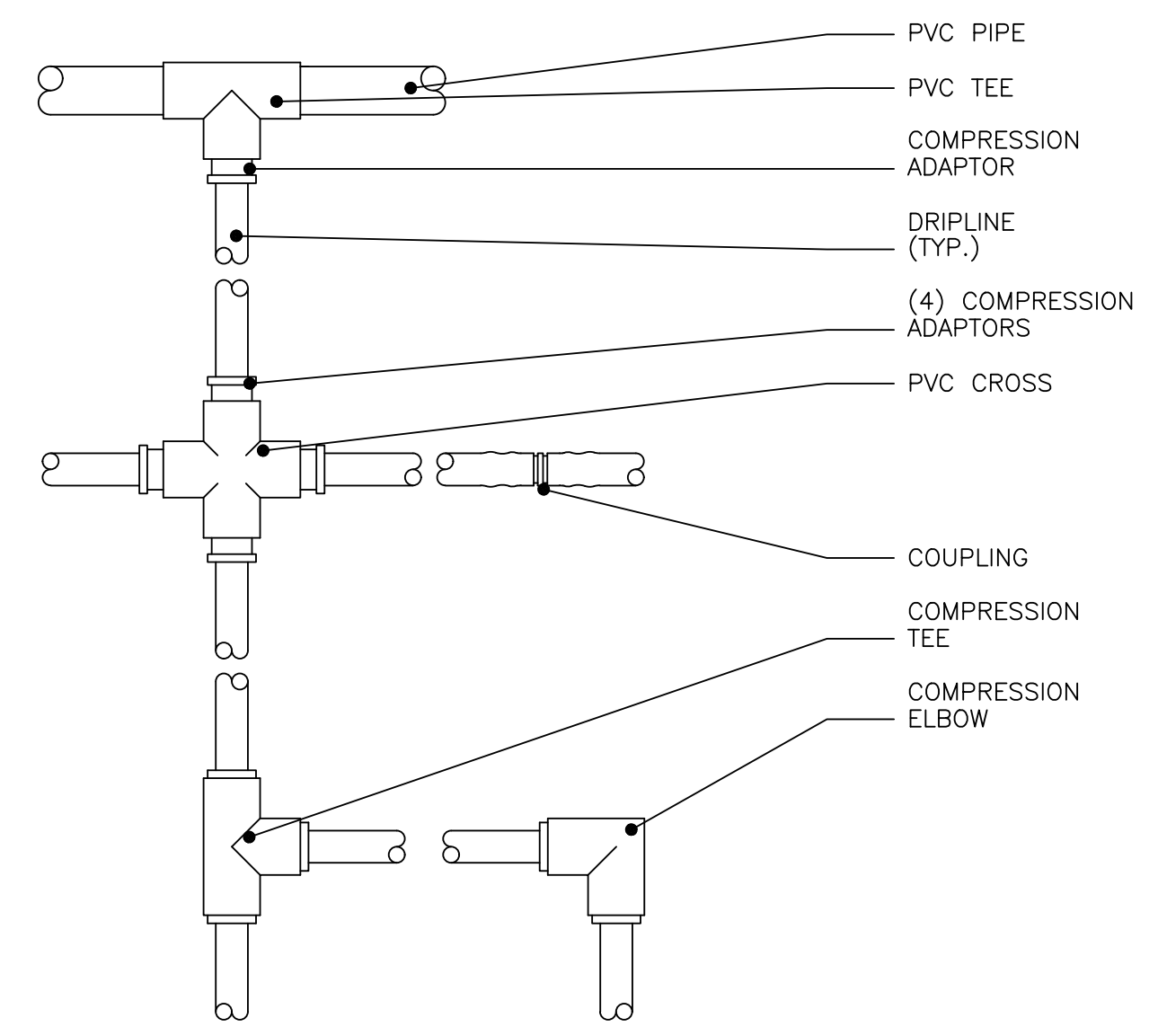
438-460

Building Number

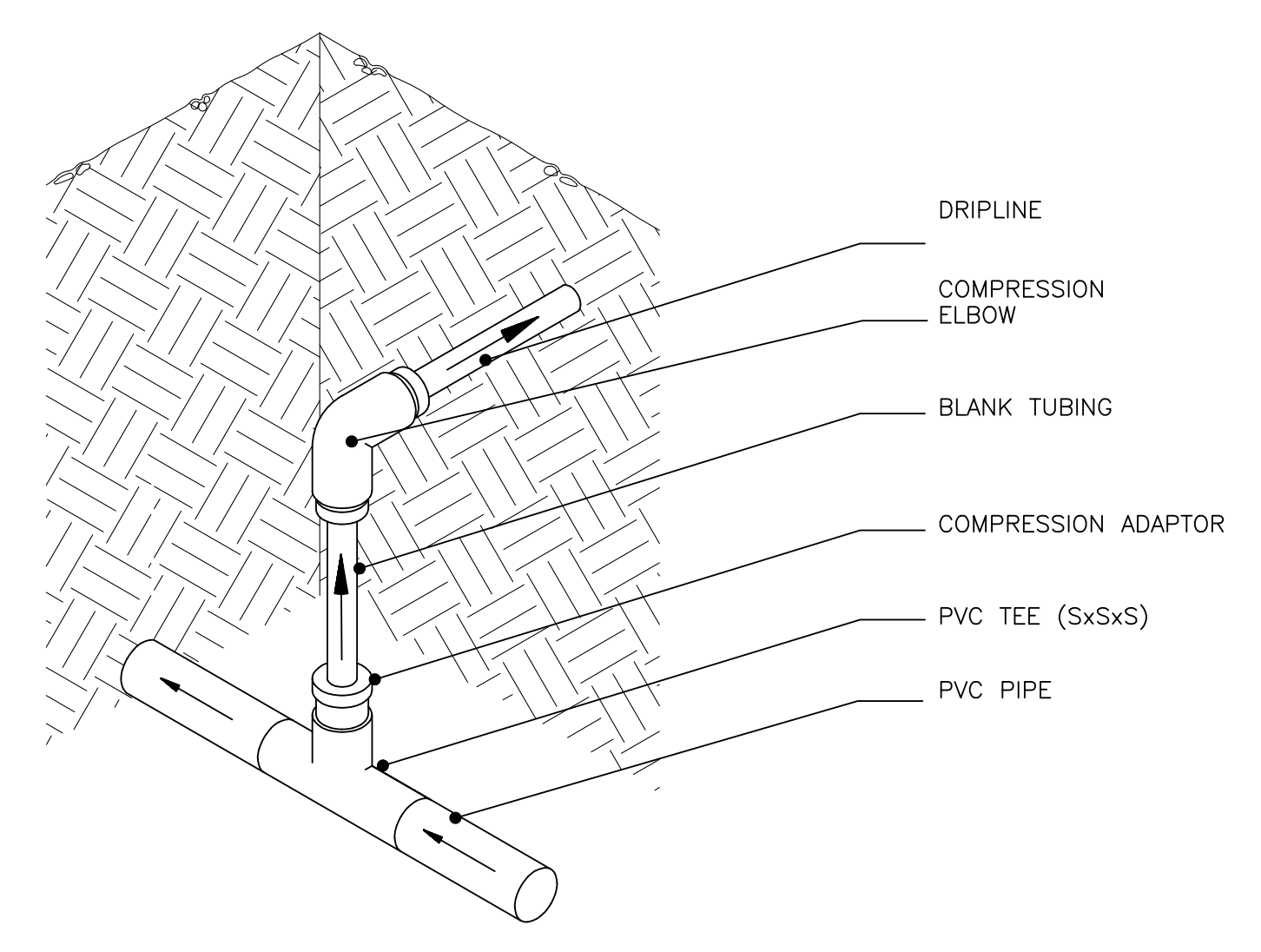
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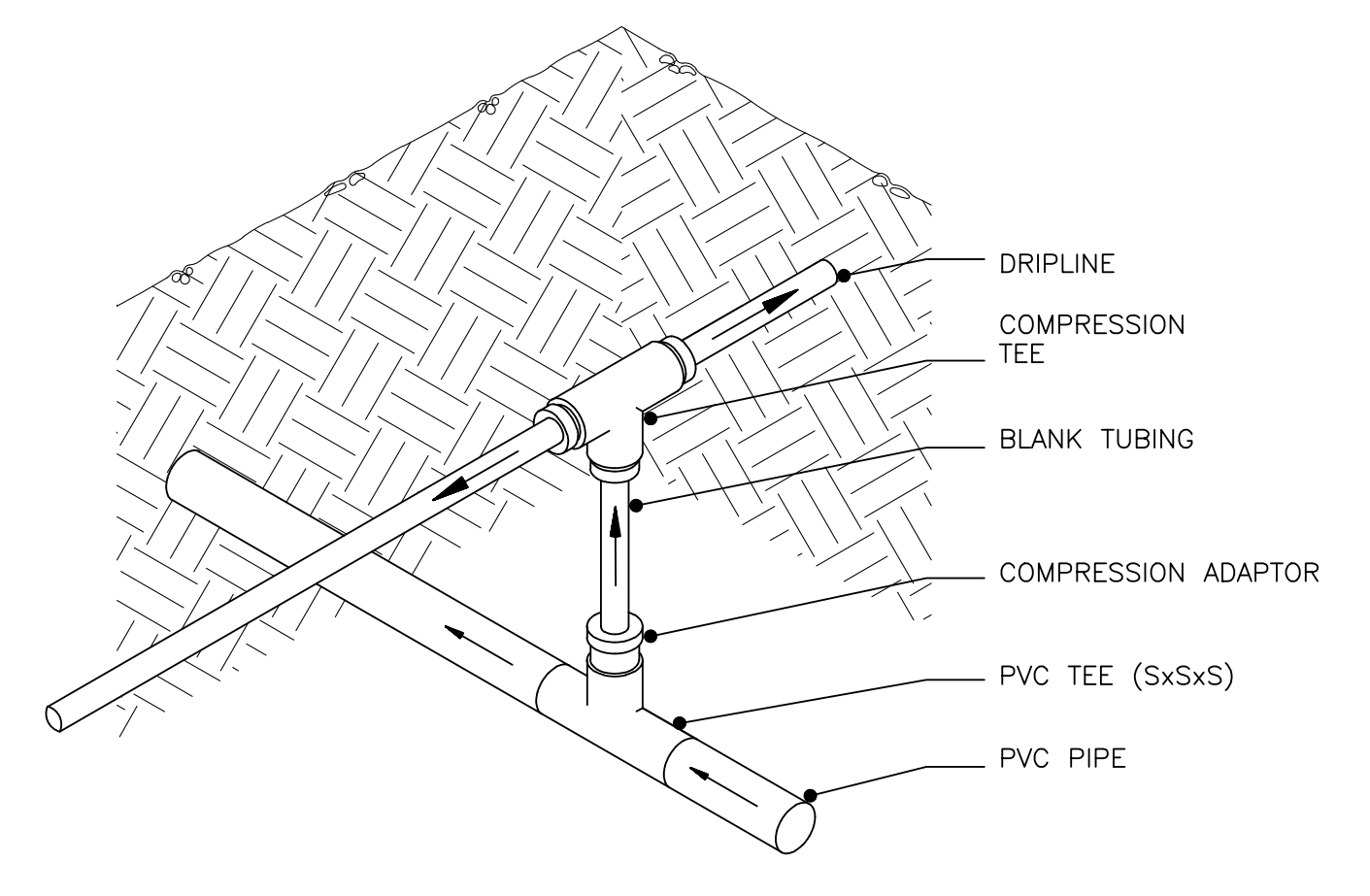
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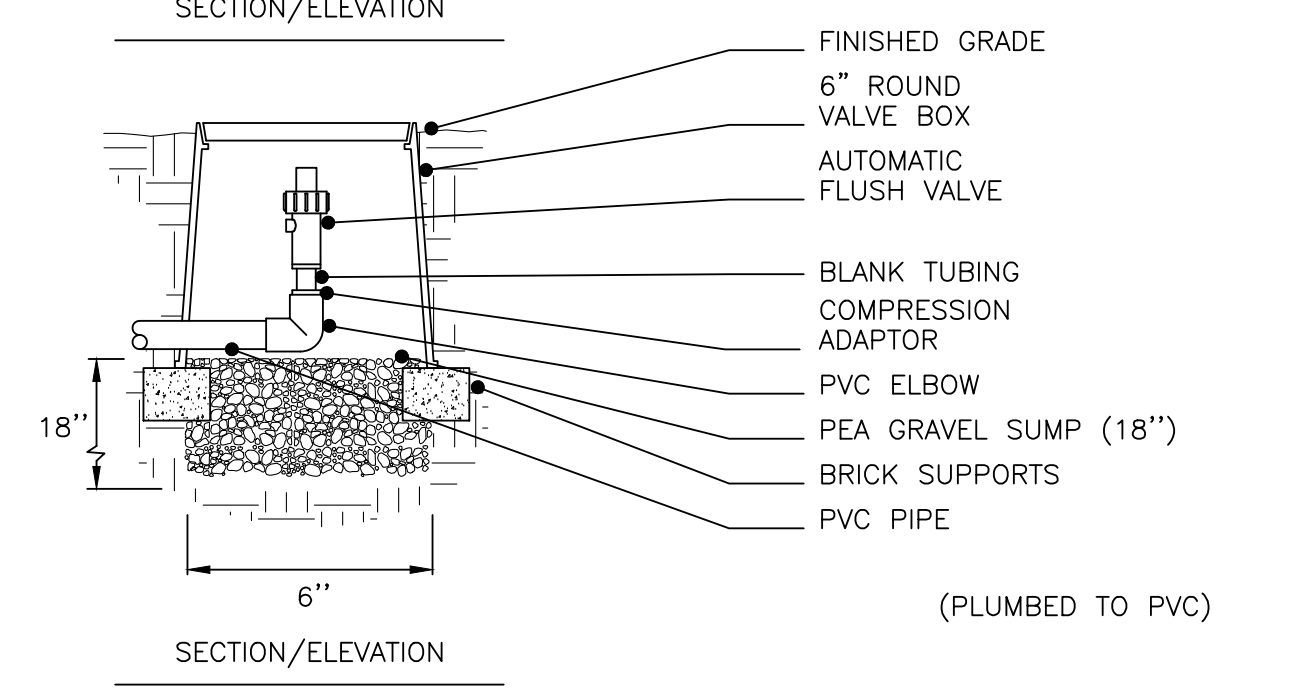
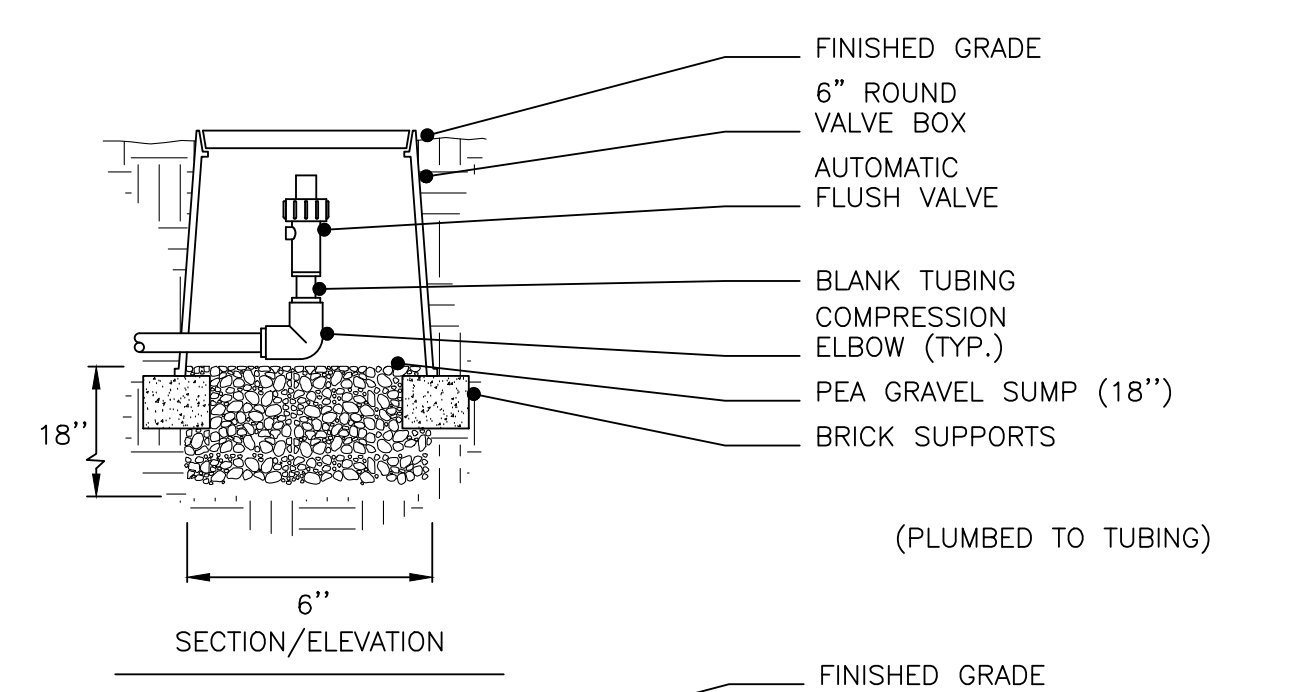
1 5/8" FITTINGS
SCALE: NONE



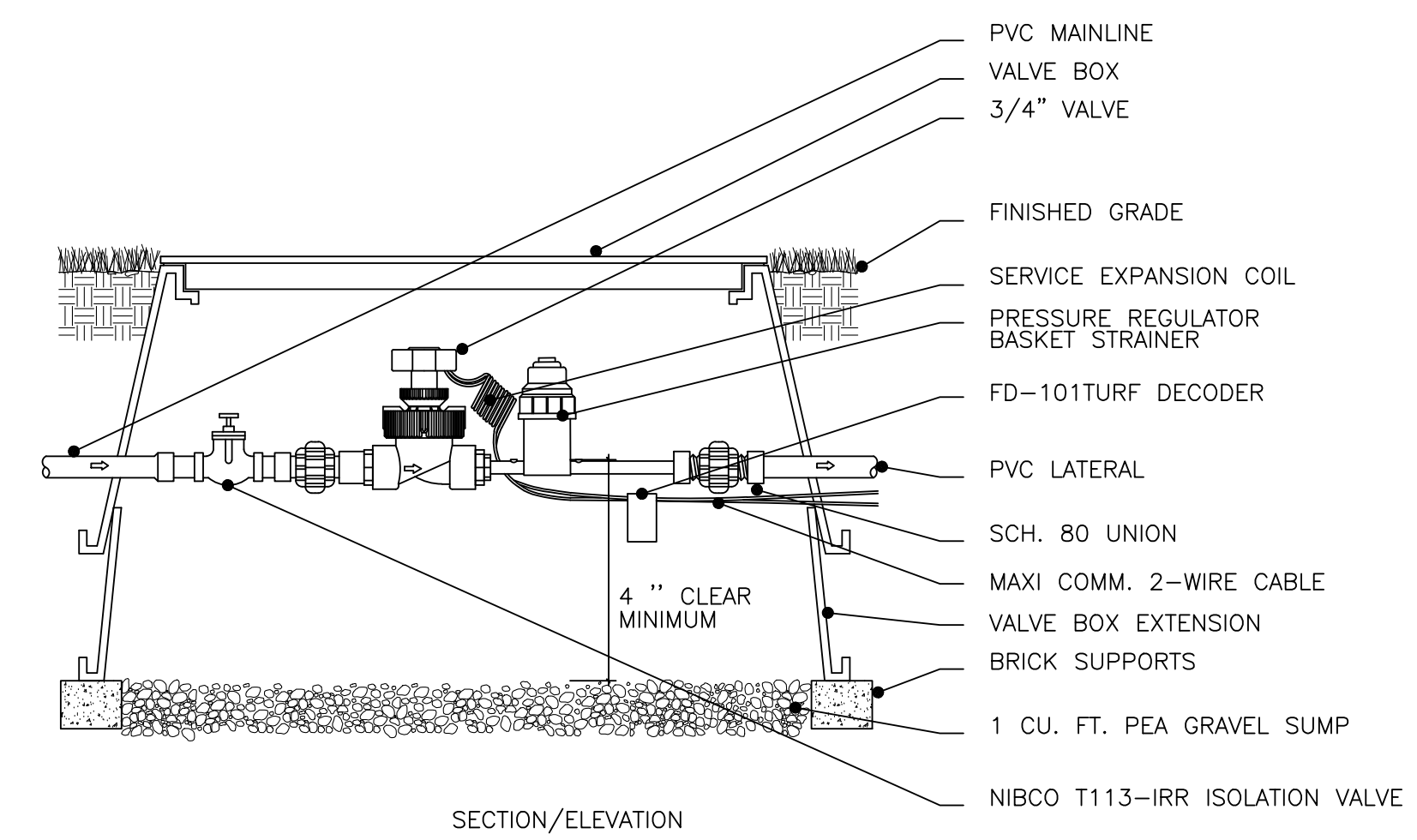
2 MANIFOLD-TO-ELBOW CONNECTION
SCALE: NONE



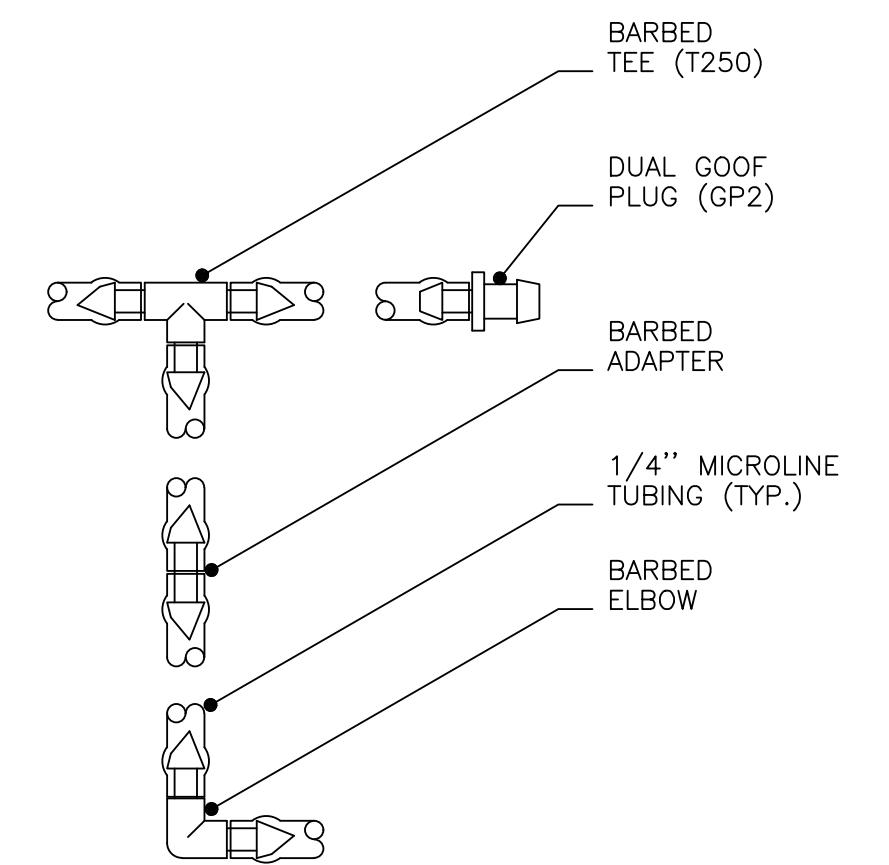
3 MANIFOLD-TO-TEE CONNECTION
SCALE: NONE



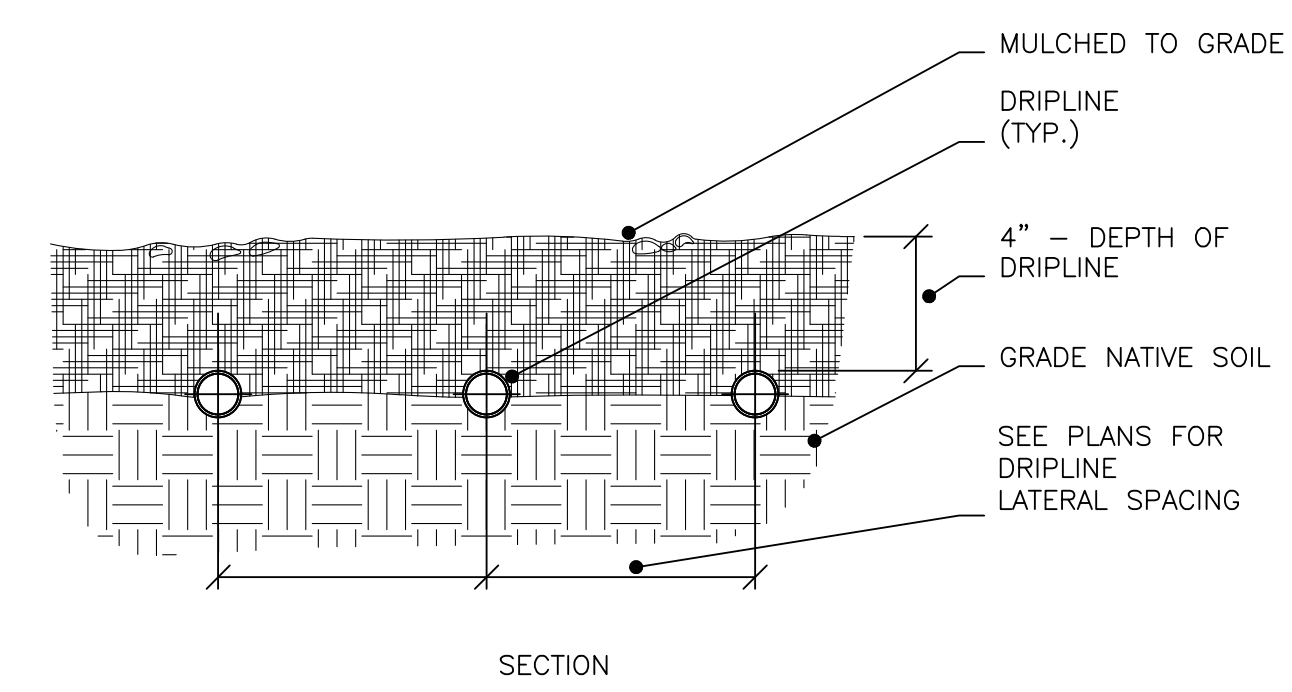
4 AUTOMATIC FLUSH VALVE
SCALE: NONE



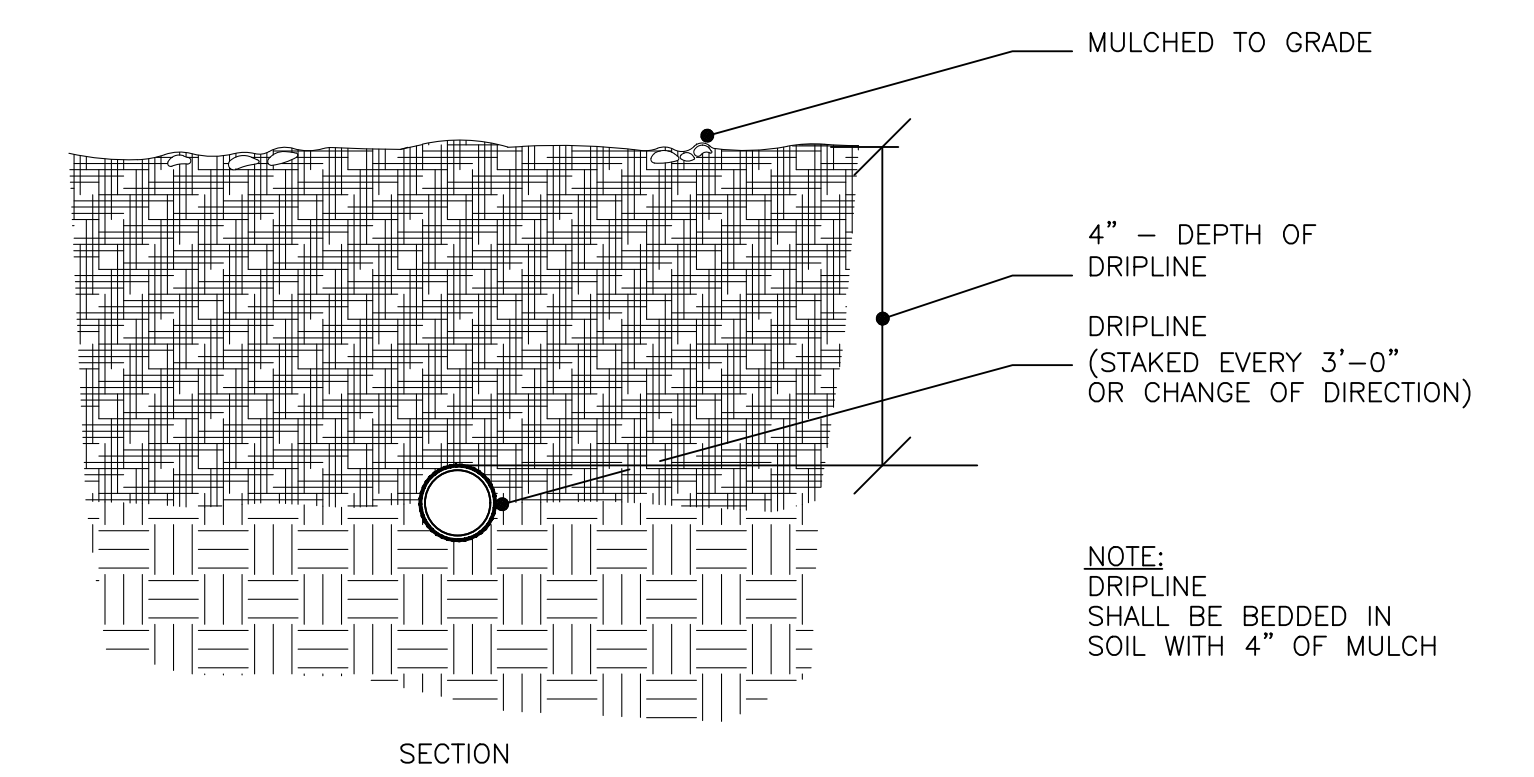
5 REMOTE CONTROL VALVE, PRESSURE REGULATOR & FILTER
SCALE: NONE



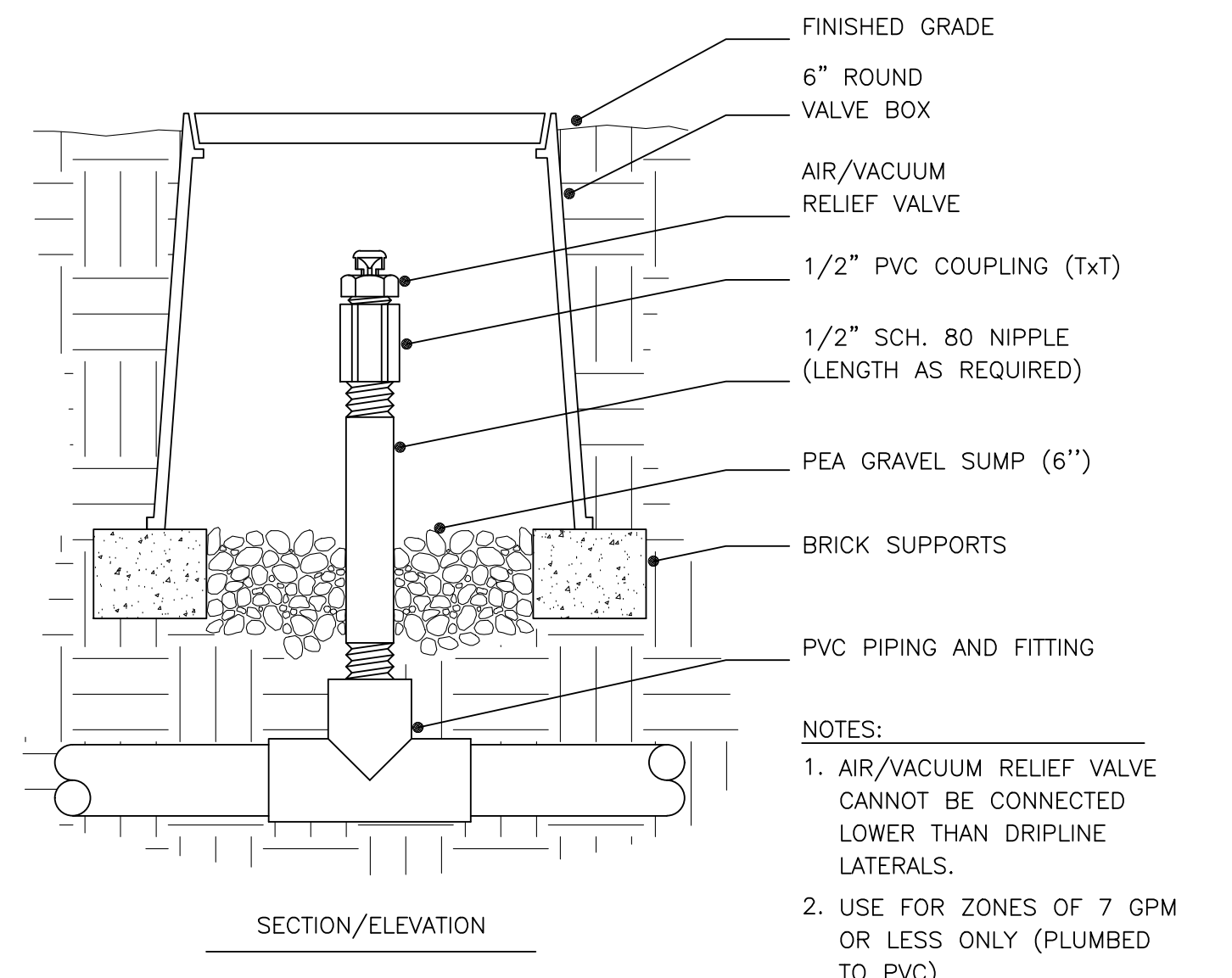
6 1/4" MICRO FITTINGS
SCALE: NONE



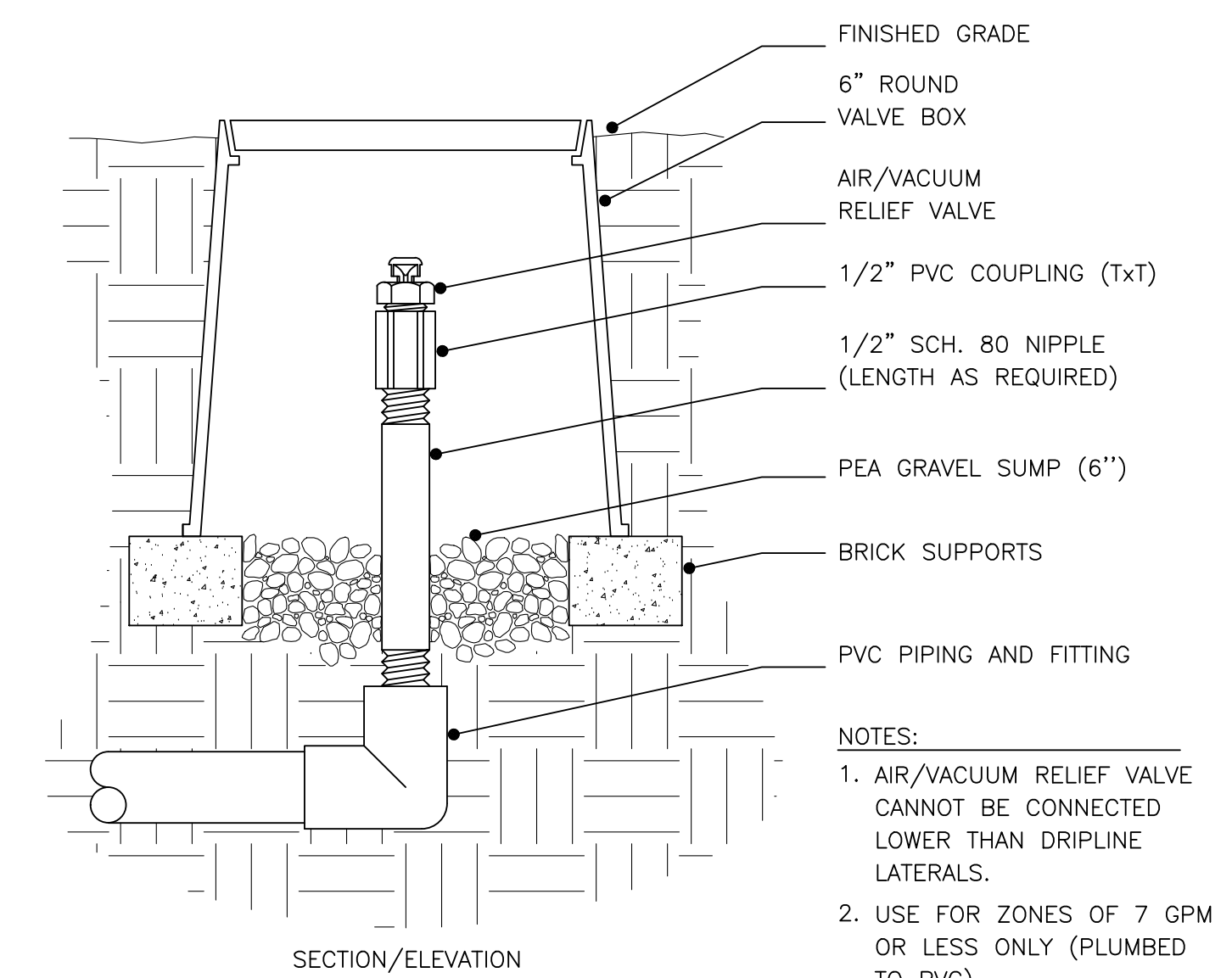
7 SUB-GRADE LAYOUT
SCALE: NONE



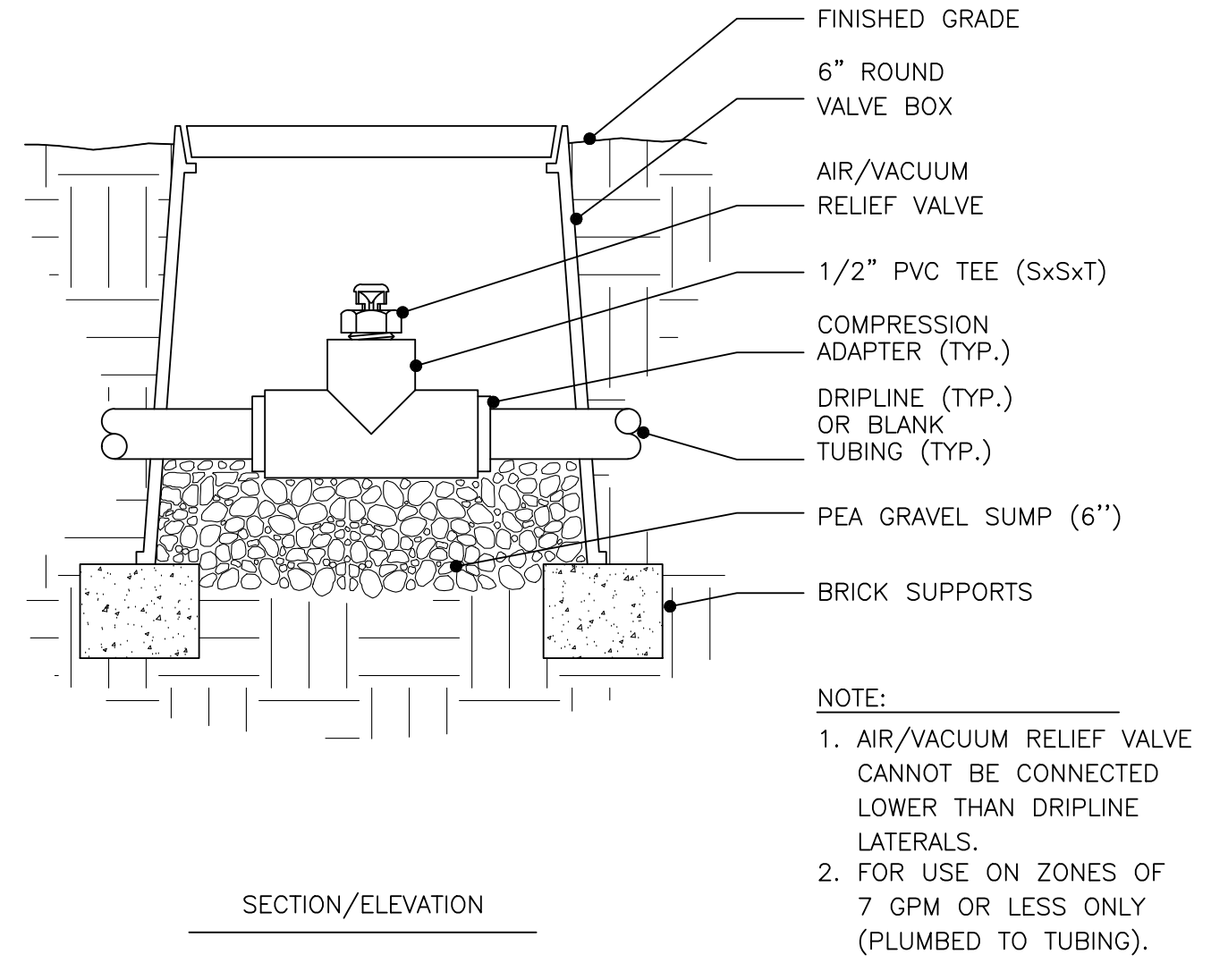
8 DRIPLINE TRENCH
SCALE: NONE



9 1/2" AIR/VACUUM RELIEF VALVE
SCALE: NONE
(PLUMBED TO PVC TEE)



10 1/2" AIR/VACUUM RELIEF VALVE
SCALE: NONE
(PLUMBED TO PVC ELBOW)



11 1/2" AIR/VACUUM RELIEF VALVE
SCALE: NONE
(PLUMBED TO TUBING)

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Office of Construction and Facilities Management

Drawing Title
IRRIGATION DETAILS

Approved: Project Director
SIoux FALLS VA HEALTH CARE SYSTEM

Phase
BID DOCUMENTS

Project Title
CONSTRUCT NEW SPS

Location
SIoux FALLS, SOUTH DAKOTA

Issue Date
02/14/2025

Checked

Drawn

Project Number
438-460

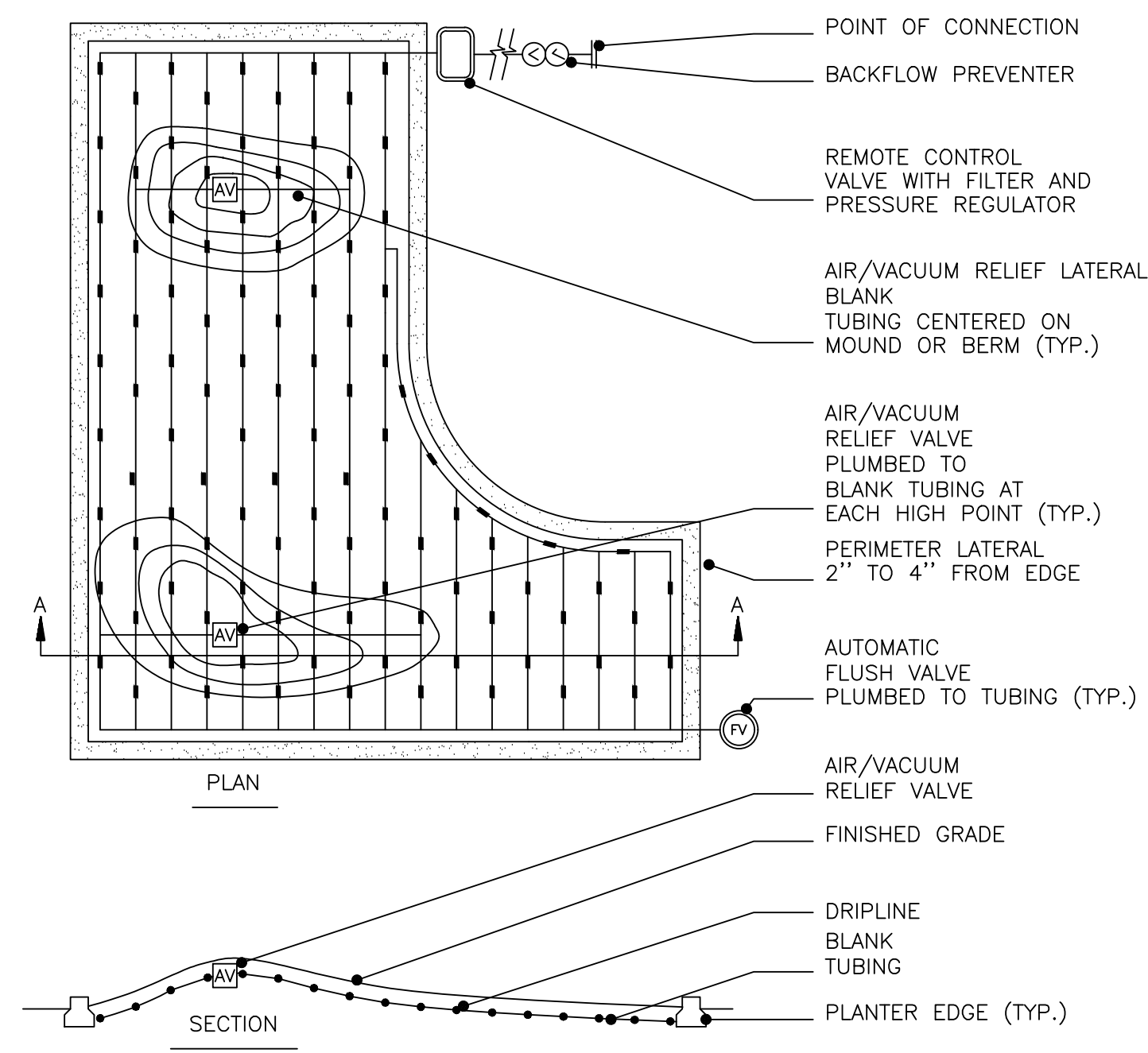
Building Number

Drawing Number
IR502

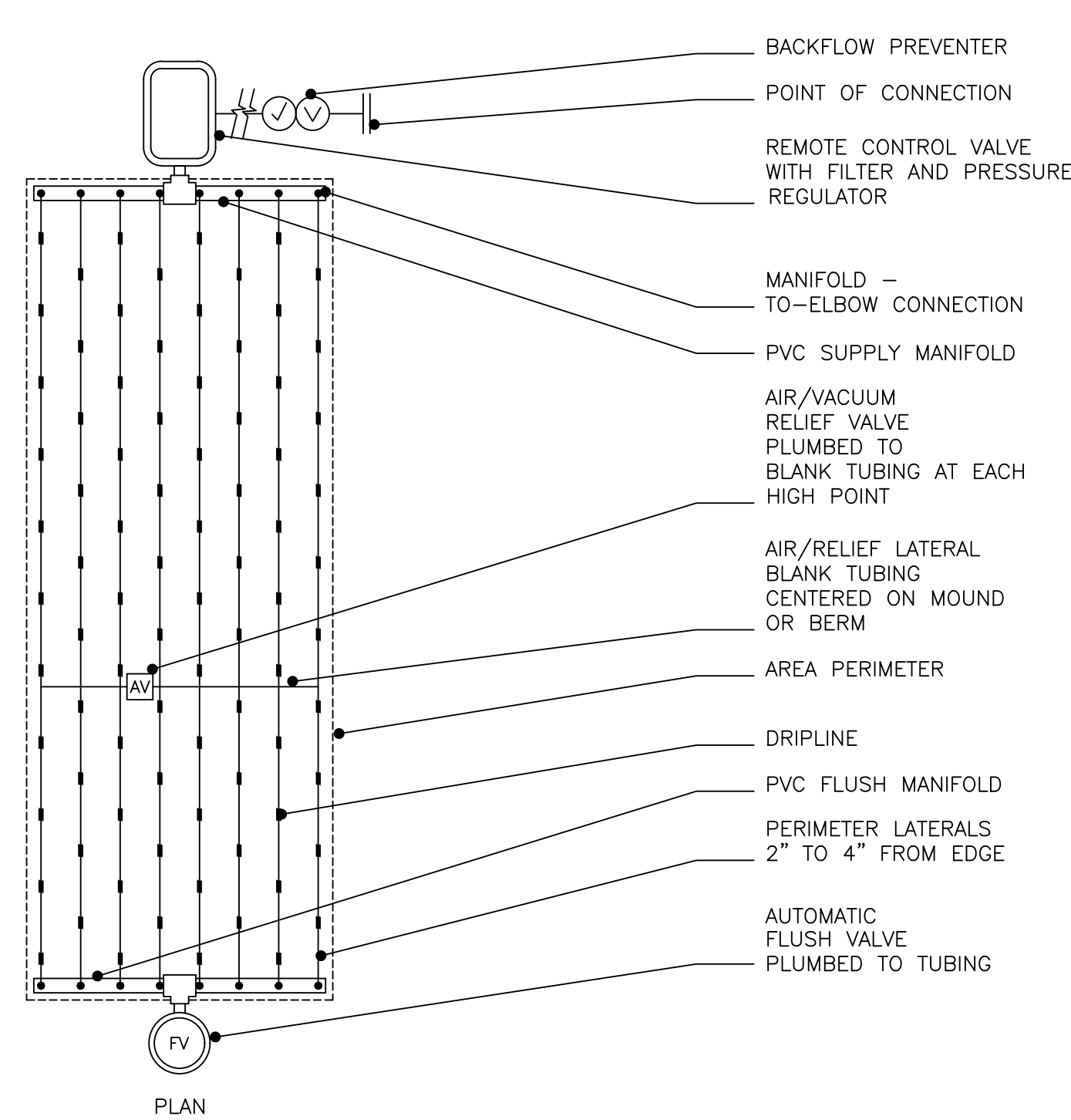
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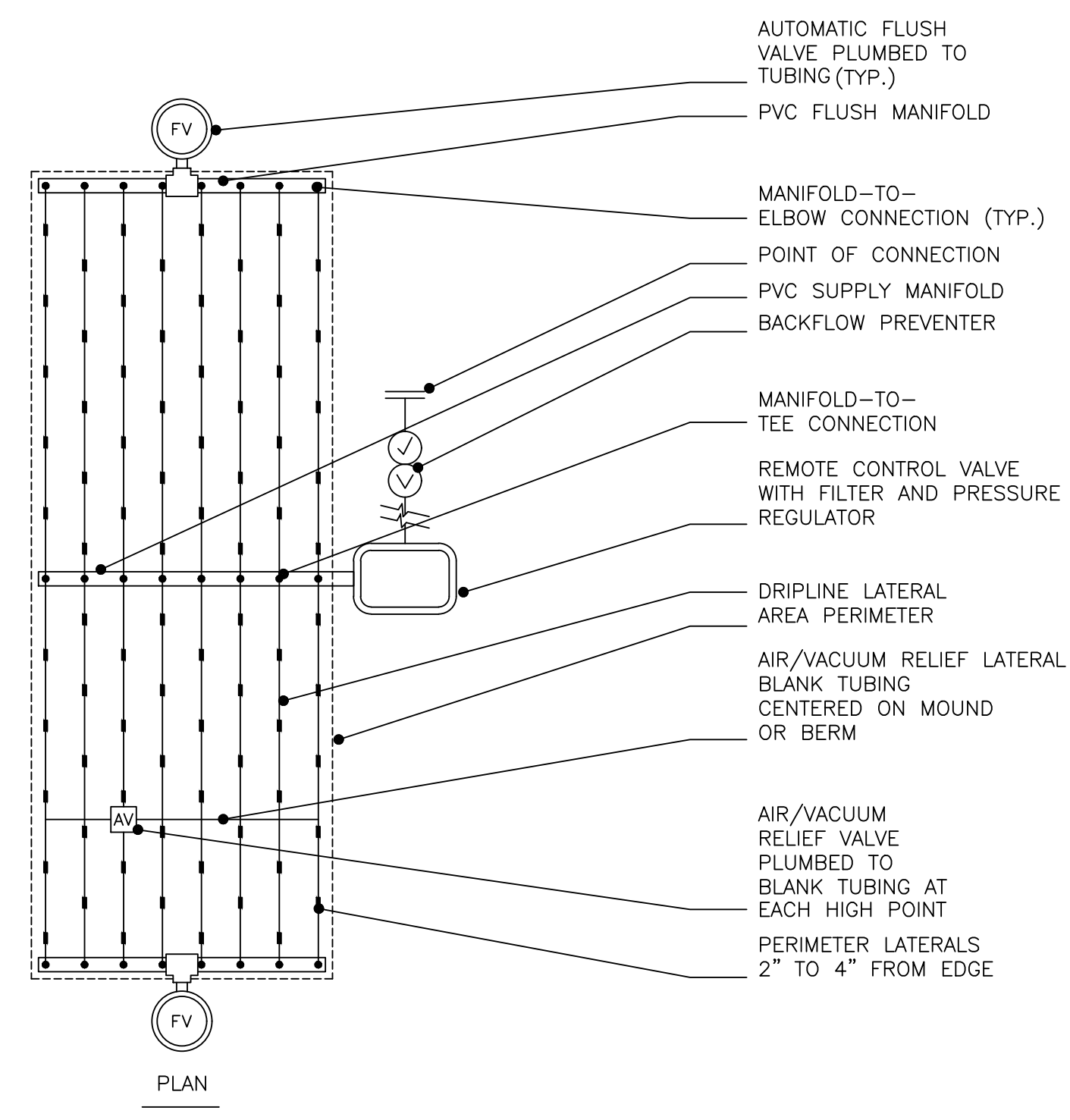
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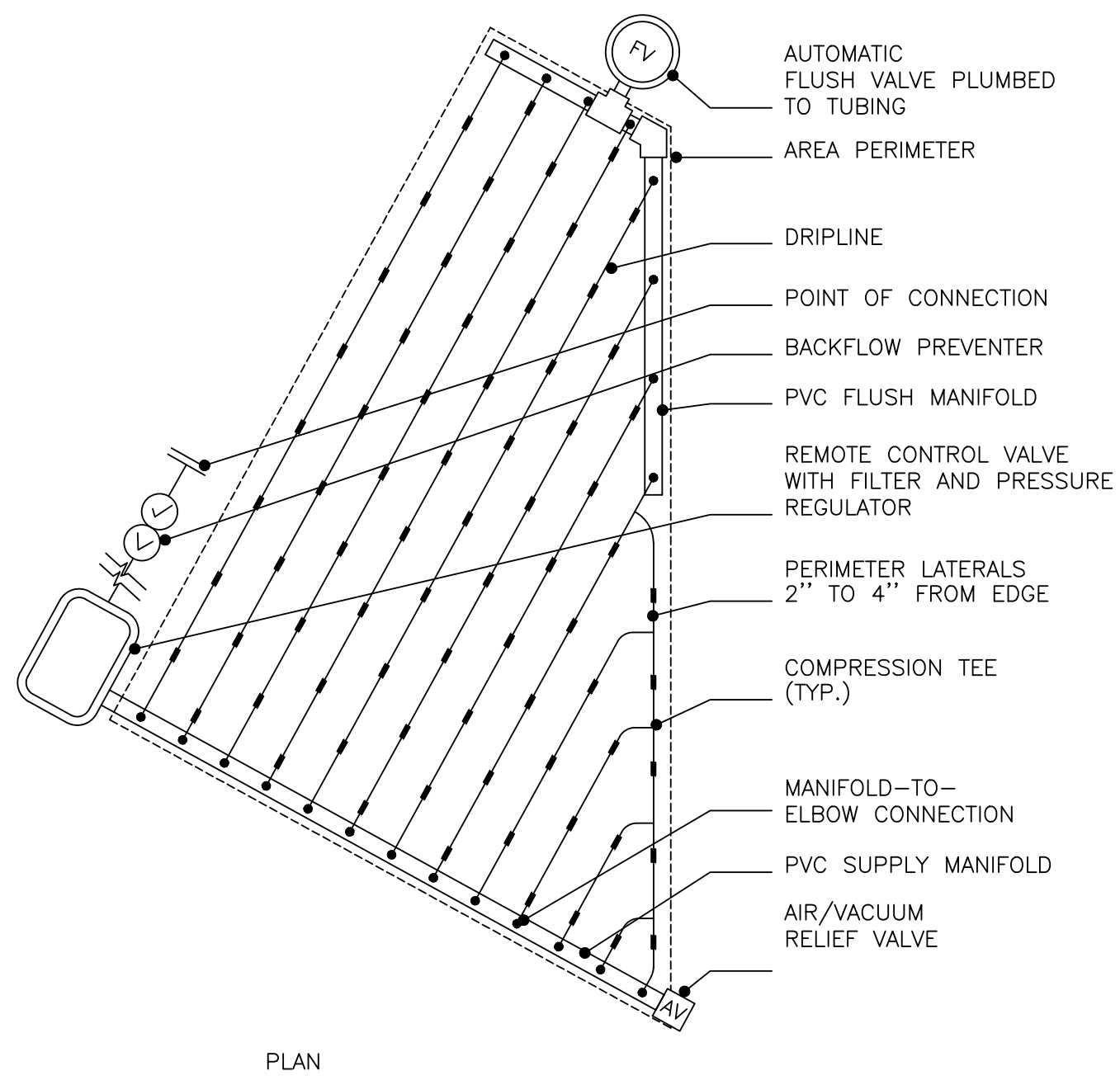
1 MOUND LAYOUT
SCALE: NONE



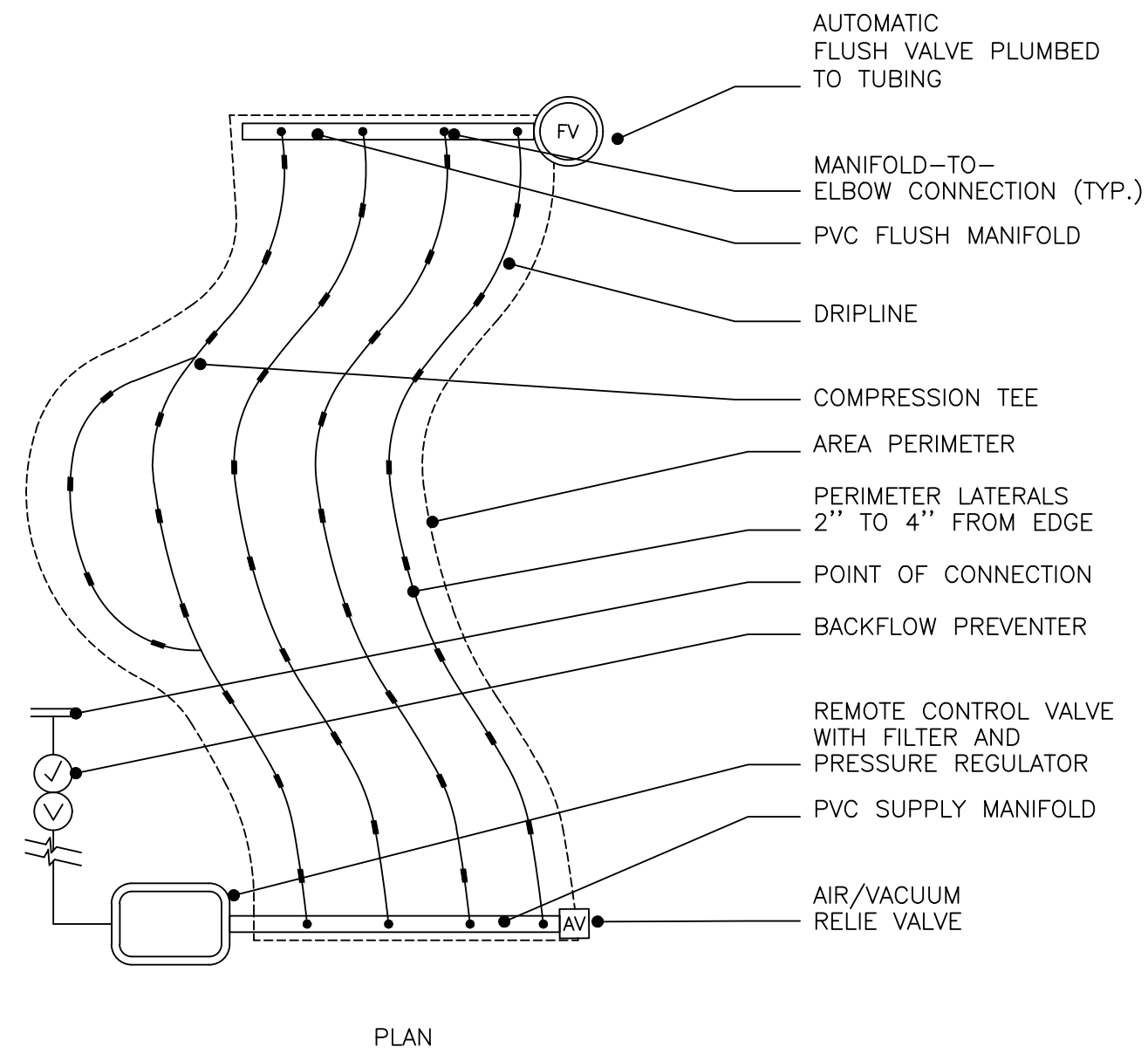
2 END FEED LAYOUT
SCALE: NONE



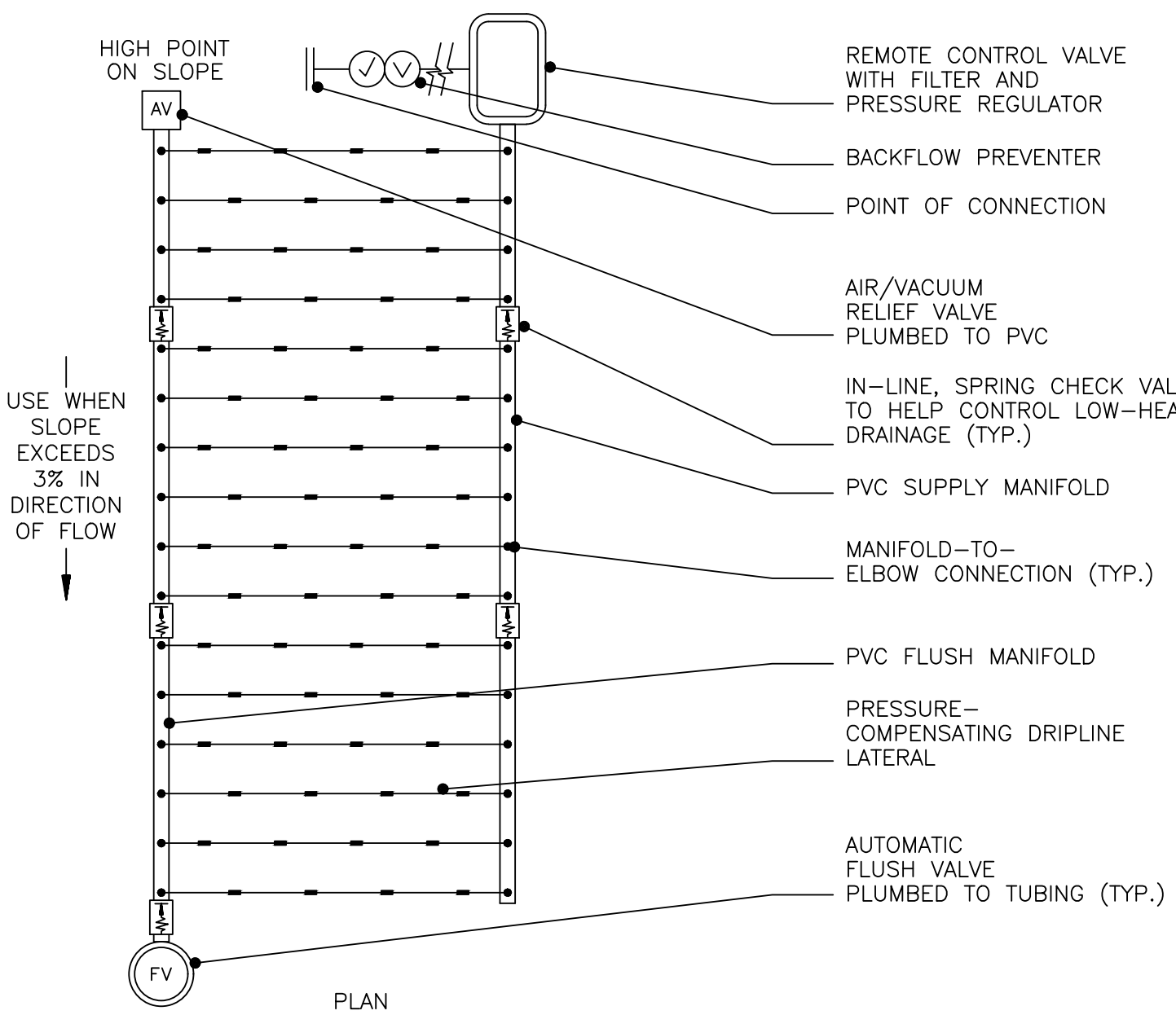
3 CENTER FEED LAYOUT
SCALE: NONE



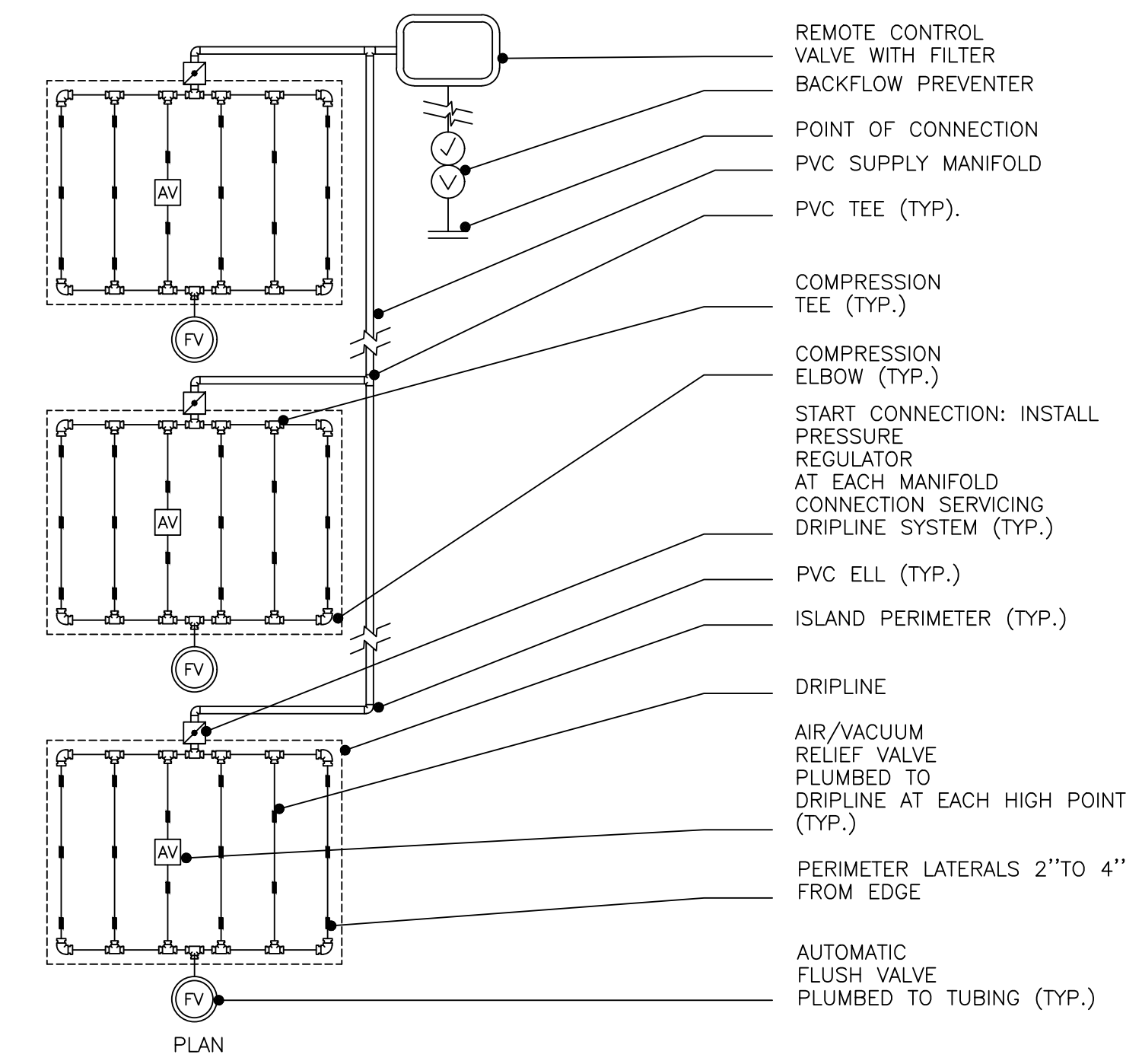
4 IRREGULAR LAYOUT (TRIANGULAR)
SCALE: NONE



5 IRREGULAR LAYOUT (ODD CURVES)
SCALE: NONE



6 SLOPE LAYOUT (PRESSURE-COMPENSATING DRIPLINE)
SCALE: NONE



7 ISLAND LAYOUT
SCALE: NONE

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title

IRRIGATION DETAILS

Approved: Project Director

SIoux FALLS VA HEALTH CARE SYSTEM

Phase

BID DOCUMENTS

Project Title

CONSTRUCT NEW SPS

Location

SIoux FALLS, SOUTH DAKOTA

Issue Date

02/14/2025

Checked

Drawn

Project Number

438-460

Building Number

Drawing Number

IR503

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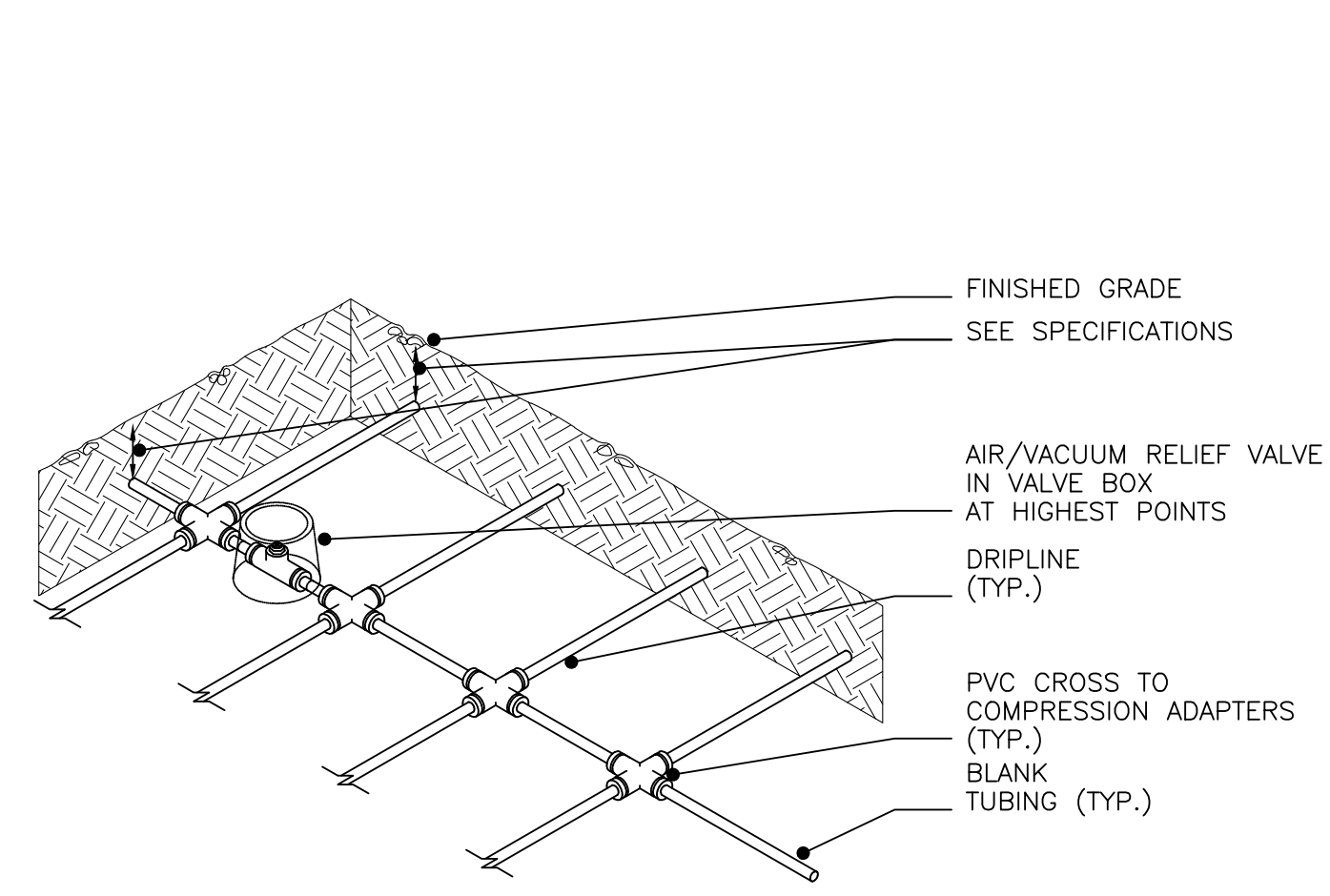
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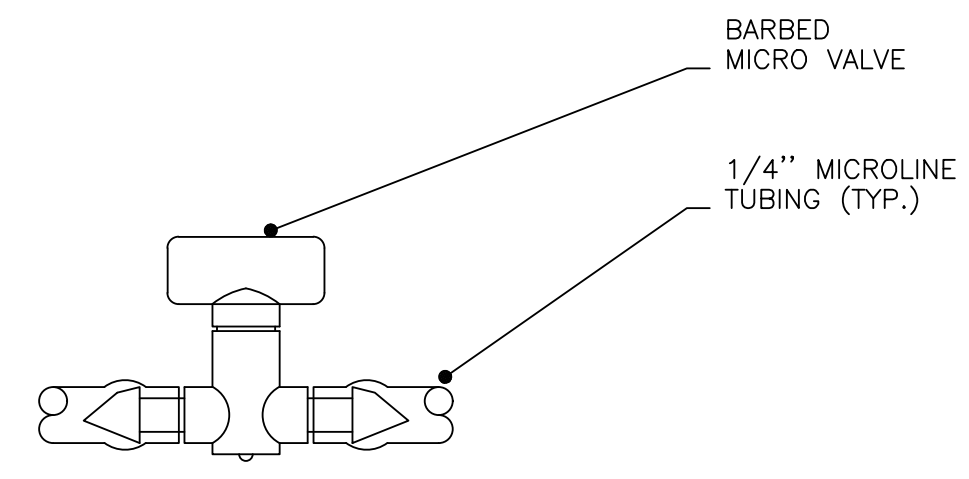
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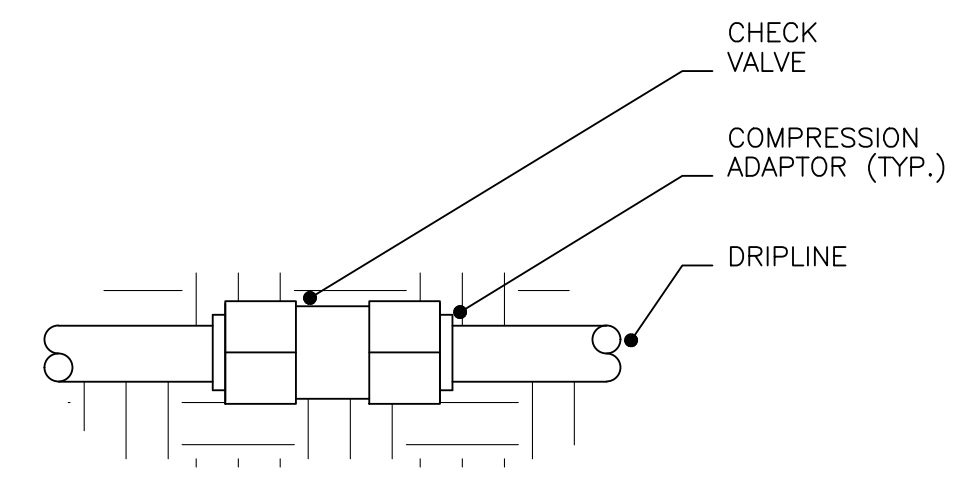


NOTES:
1. SEE PLANS & LEGEND FOR
FOR ALL DIMENSIONS AND
LATERAL
SPACING.
2. RATIO OF
LATERALS TO START MAY
VARY PER HYDRAULIC
DEMAND AT THE START
CONNECTION (SEE PLANS
& LEGEND).

1 AIR/VACUUM RELIEF LATERAL
SCALE: NONE

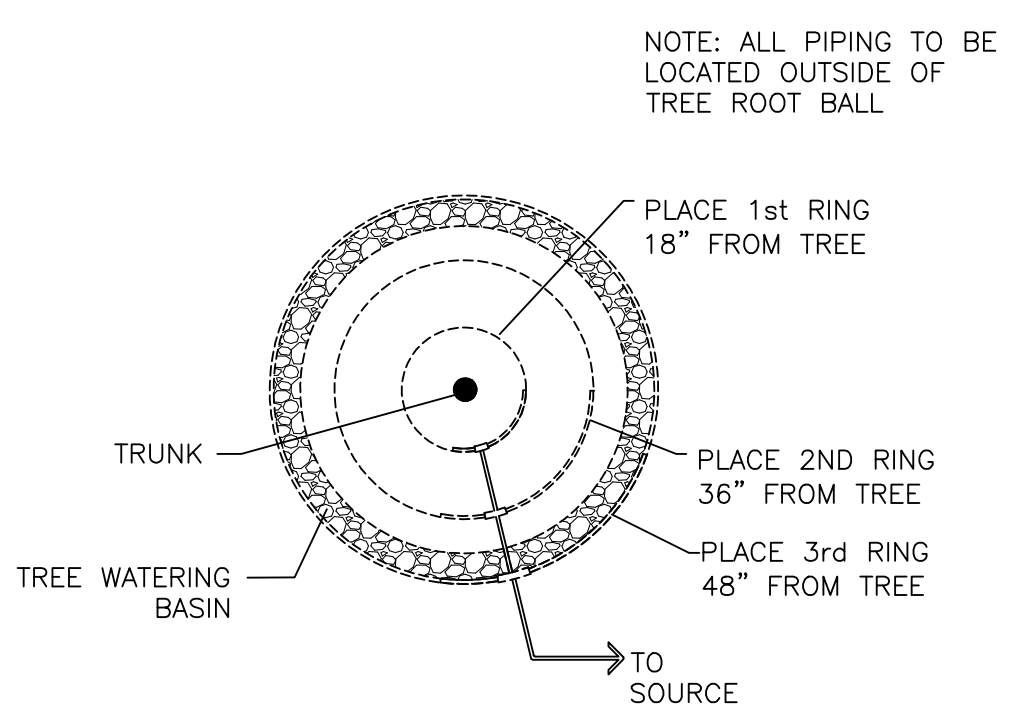


2 1/4" MICRO VALVE
SCALE: NONE

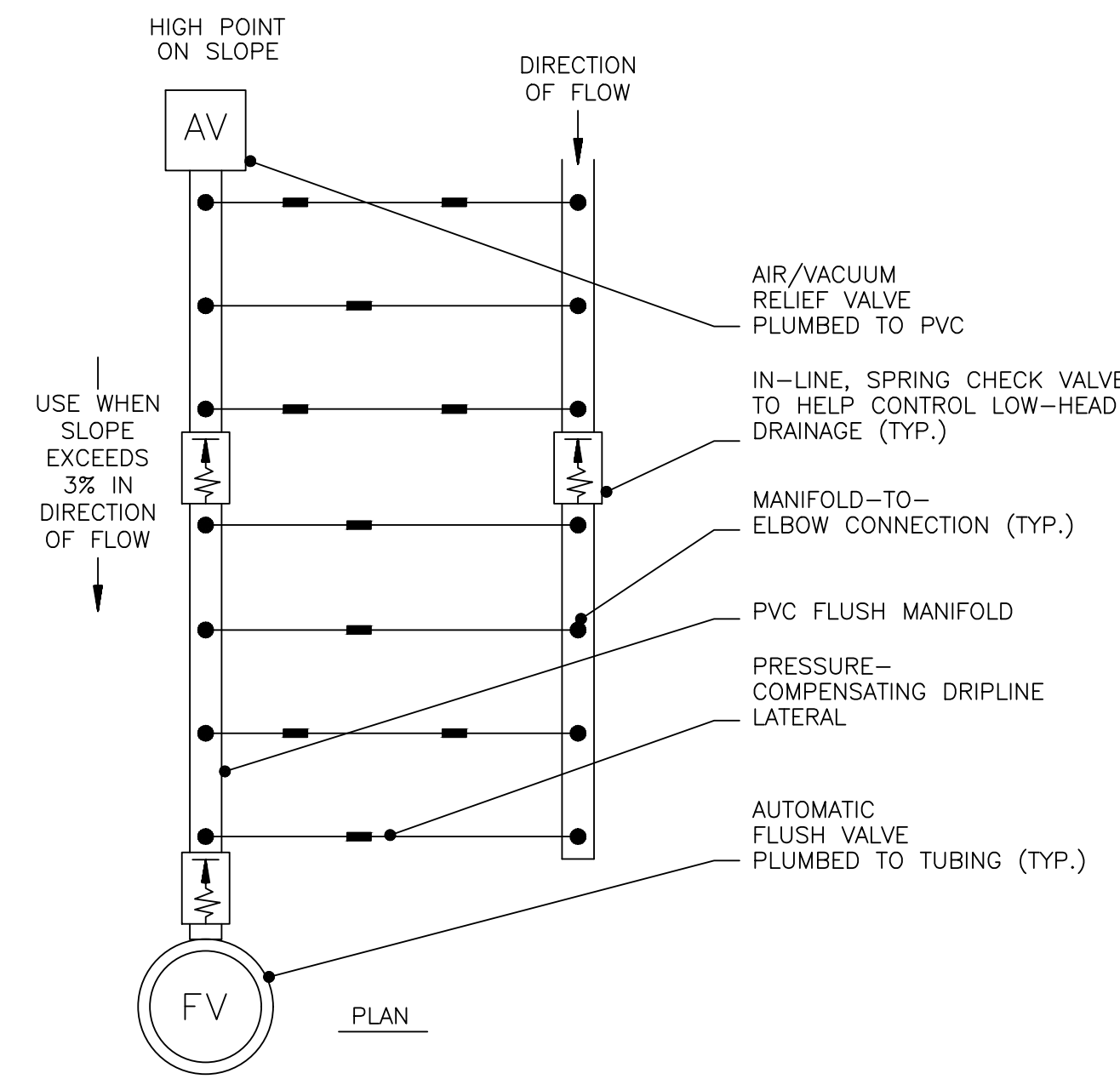


NOTE:
LOCATED IN 6" ROUND
VALVE BOX AND LABELED
CHECK VALVE

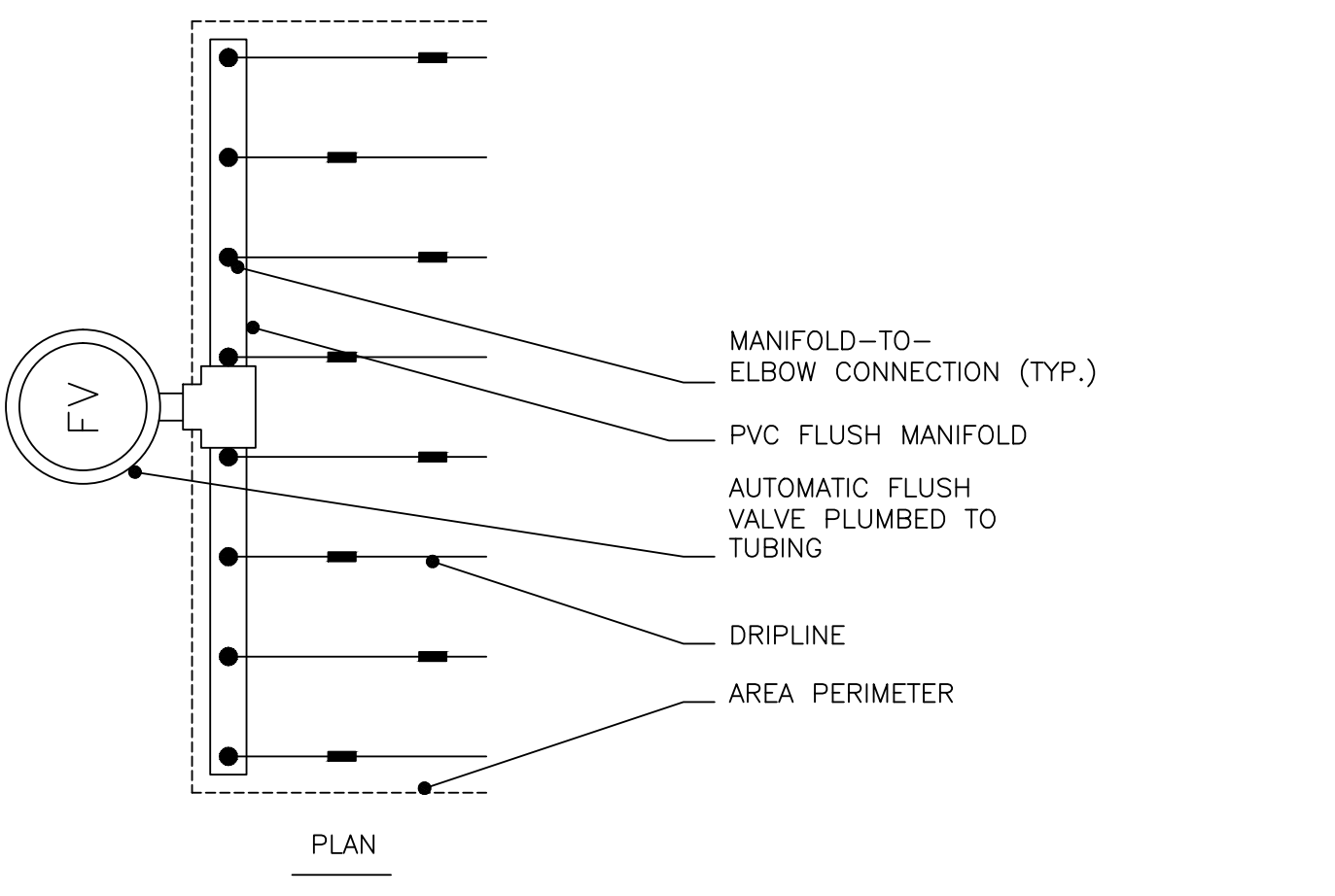
3 CHECK VALVE
SCALE: NONE



4 TEMPORARY TREE EMITTER LAYOUT
FOR ESTABLISHMENT
SCALE: NONE



5 END-FEED LAYOUT
SCALE: NONE



6 CENTER-FEED LAYOUT
SCALE: NONE

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Revisions:	Date:

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Office of
Construction
and Facilities
Management

U.S. Department
of Veterans Affairs

Drawing Title	IRRIGATION DETAILS
Approved: Project Director	SIoux FALLS VA HEALTH CARE SYSTEM

Phase	BID DOCUMENTS
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Project Title	CONSTRUCT NEW SPS
Location	SIoux FALLS, SOUTH DAKOTA
Issue Date	02/14/2025
Checked	
Drawn	

Project Number	438-460
Building Number	
Drawing Number	IR504

STATEMENT OF SPECIAL INSPECTION:

Special Inspections and Testing requirements per Chapter 17 of the IBC in addition to Section 110 of the IBC (Inspection performed by the Building Official). See Specs. for additional information.

Table with 4 columns: IBC Section, Material, Type of Inspector, Report Frequency. Rows include Shop Fabrication, Steel, Concrete, Soils/Earthwork, and Deep Foundation.

SI-S Special Inspector-Structural SI-T Special Inspector-Technical

1703.1 - APPROVALS

- 1. Agency must be approved by the Building Official or AHJ.
2. Agency must be independent of the contractor responsible for work and disclose possible conflicts of interests.

1704.2.4 - SPECIAL INSPECTOR RESPONSIBILITIES:

- 1. Submit inspection reports to the Building Official, Architect, Engineer of Record (EOR), and Contractor, stating the work was or was not in conformance with construction documents.
2. Discrepancies shall be brought to the immediate attention of the contractor for correction.
3. If discrepancy is not corrected, it shall be brought to the attention of the building official and EOR in a timely manner to provide remediation or acceptance prior to the completion of work.
4. Submit a final report documenting required special inspections and correction of any discrepancies noted.

1704.2.5 - FABRICATION:

Where fabrication of structural members and assemblies are being fabricated on the premises of a fabricator's shop, special inspection is required of the fabricated item.

Note: Where Special Inspection and Testing of Shop Fabricated Components is required, it shall conform to the Special Inspection and Testing required in the field for the material specific section the component is fabricated from.

Exception: Special Inspection of the Fabricator's shop is not required if approved per Section 1704.2.5.2.

TABLE 1705.3 REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION. Table with 5 columns: Verification and Inspection, Continuous, Periodic, Referenced Standard (a), IBC Reference. Rows include inspection of reinforcing steel, concrete placement, prestressing, and formwork.

For SI: 1 inch=25.4mm

- a. Where applicable, see also Section 17.05.11, Special Inspections for seismic resistance.
b. Specific requirements for special inspection shall be included in the research report for the anchor issued by an approved source in accordance with ACI 308.2 or other qualification procedures.

Exceptions:

- 1. Non-structural concrete slabs supported directly on the ground.
2. Concrete patios, driveways and sidewalks on grade.

In addition to the requirements below also comply w/ AISC 360-10 Chapter N

Welding Inspection Tasks. Table with 2 columns: Task, Requirement (P/O). Rows include WPS availability, material identification, welder qualifications, and various welding tasks.

- (1) The fabricator or erector, as applicable, shall maintain a system by which a welder who has welded a joint or member can be identified.
(2) When welding of double plates, continuity plates or stiffeners has been performed in the k-area, visually inspect the web k-area for cracks within 3 in. (75mm) of the weld.

0 - Observe these items on a random basis. Operations need not be delayed pending these inspections.

P - Perform these tasks for each welded joint or member

N5.5 Non-destructive Testing (NDT) of Welds shall be performed in accordance with AWS D1.1/D1.1M based on the following criteria: Table with 2 columns: Item, Description. Rows include CJP groove welds, CJP groove welds for materials 5/16" thick or greater, etc.

Bolting Inspection Tasks. Table with 2 columns: Task, Requirement (P/O). Rows include manufacturer certifications, fastener markings, proper fasteners, and bolting procedures.

0 - Observe these items on a random basis. Operations need not be delayed pending these inspections.

P - Perform these tasks for each welded joint or steel member

N5.7 Anchor Bolts and other embedded items supporting structural steel, verify diameter, grade, type, length of embedded item, and the embedment depth prior to placing concrete.

TABLE N6.1 Inspection of Steel Elements of Composite Construction Prior to Concrete Placement. Table with 2 columns: Task, Requirement (P/O). Rows include placement and installation of steel deck, steel headed stud anchors, etc.

0 - Observe these items on a random basis. Operations need not be delayed pending these inspections.

P - Perform these tasks for each steel member.

TABLE 1705.6 REQUIRED VERIFICATION AND INSPECTION SOILS. Table with 3 columns: Verification and Inspection Task, Continuous During Task Listed, Periodically During Task Listed. Rows include continuous inspections, excavation verification, and soil testing.

TABLE 1705.7 REQUIRED VERIFICATION AND INSPECTION OF DEEP FOUNDATION ELEMENTS. Table with 3 columns: Verification and Inspection Task, Continuous During Task Listed, Periodically During Task Listed. Rows include material verification, load tests, driving operations, and placement verification.

HELICAL & MICROPILE PILE FOUNDATIONS:

Table with 3 columns: Verification and Inspection Task, Continuous, Periodic. Row includes continuous inspections for helical and micropile foundations.

Revisions table with columns for Revisions and Date.

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ARCHITECT/ENGINEER OF RECORD ANDERSON logo and contact information: 13605 1st Ave. N. #100 Plymouth, MN 55441.

STAMP: Professional Engineer Seal for Michael P. Merion, State of Minnesota, No. 1108.

Office of Construction and Facilities Management logo and U.S. Department of Veterans Affairs logo.

Drawing Title: TESTING SCHEDULES. Approved: [Signature]

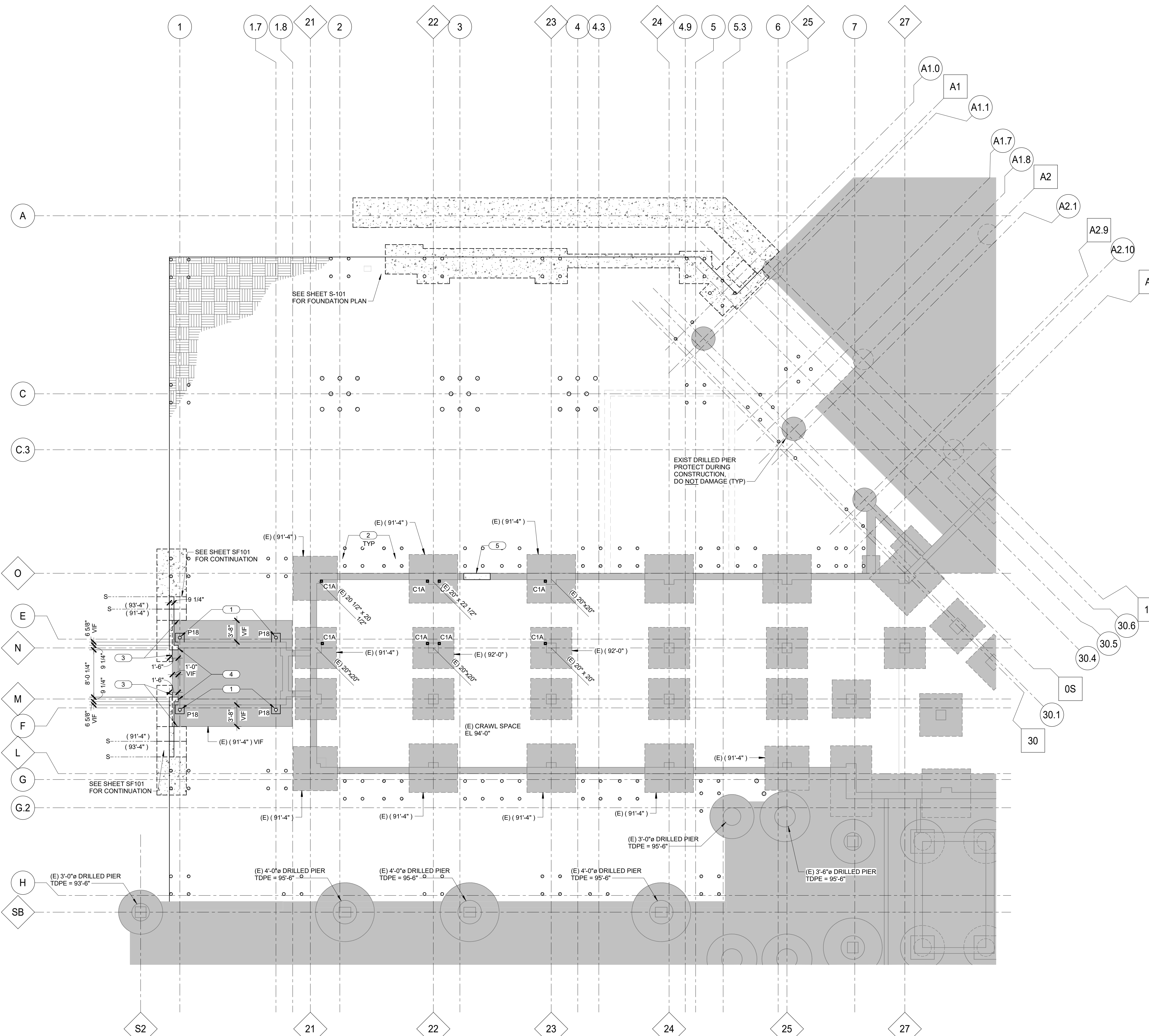
Phase: BID DOCUMENTS, FULLY SPRINKLERED

Project Title: CONSTRUCT NEW SPS. Location: Sioux Falls, SD. Issue Date: 02/14/2025. Checked: MPM/TGL. Drawn: MAQ.

Project Number: 438-460. Building Number: 5. Drawing Number: SG001.

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A
B
C
D
E
F



- GENERAL PLAN NOTES: FOUNDATION**
- = INDICATES MECH LINE CROSSING FTG (NOT ALL SHOWN).
 - 1. VERIFY ALL DIMENSIONS W/ ARCH DRAWINGS.
 - 2. DO NOT SCALE DRAWINGS.
 - 3. SEE ARCH DWGS FOR LOCATION OF WALLS NOT DIMENSIONED ON PLAN.
 - 4. CX INDICATES STEEL COLUMN. SEE SHEET SB101 FOR SCHED.
 - 5. PX INDICATES CONC PIER BELOW GRADE. SEE SHEET SB101 FOR SCHED.
 - 6. SFX X INDICATES CONCRETE SPREAD FOOTING. SEE SHEET SB101 FOR SCHEDULE.
 - 7. CFX X INDICATES CONCRETE CONTINUOUS FOOTING. SEE SHEET SB101 FOR SCHEDULE.
 - 8. TYP STEPPED FTG. SEE SECTION 1/SB200.
 - 9. TYP ANCHOR ROD DETAIL. SEE SECTION 4/SB200.
 - 10. FOR TYP CONC FDN WALL CORNER DETAILS RETAINING EARTH, SEE SECTION 8/SB200.
 - 11. FOR TYP CONC FDN WALL CONTROL JT, SEE SECTION 6/SB200.
 - 12. FOR TYP CONC FDN WALL CONSTR JT, SEE SECTION 7/SB200.
 - 13. FOR TYP ADDL REINF AT CONC WALL OPGS LARGER THAN 12" IN ANY DIRECTION, SEE SECTION 9/SB200.
 - 14. CONTRACTOR TO VERIFY UNDERGROUND UTILITIES LOCATIONS AND INVERT ELEVATIONS. DROP TOP OF FTG ELEVATIONS AS REQ'D TO ALLOW MECH PIPE TO PASS OVER FTG.
 - 15. PROVIDE PIPE SLEEVES AT ALL LOCATIONS WHERE MECH PIPES PENETRATE WALL. VERIFY LOCATIONS WITH MECH. DWGS. SEE SECTION 2/SB200.
 - 16. REFER TO ARCHITECT'S DRAWINGS FOR BELOW GRADE WATERPROOFING DETAILS.
 - 17. ALL EXTERIOR STEEL TO BE HOT-DIPPED GALVANIZED.
 - 18. CONTRACTOR TO FIELD VERIFY EXISTING DIMENSIONS & ELEVATIONS.
 - 19. CONTRACTOR TO LOCATE EXISTING REINFORCING IN EXISTING WALLS & SLABS AS REQUIRED.
 - 20. CONTRACTOR TO LOCATE ALL UNDERGROUND UTILITIES, MECHANICAL PIPING, ELECTRICAL CONDUIT, ETC. PRIOR TO HELICAL PILE INSTALLATION. COORDINATE WITH HELICAL PILE DESIGNER AND ADJUST HELICAL PILE LOCATION AS REQUIRED.

- KEY PLAN NOTES: FOUNDATION**
- 1 DRILL MICROPILES THROUGH FOUNDATION AT STAIR TOWER. LOCATE PILE CENTERED ON PIER. SEE PLAN SB101 FOR COLUMN REACTION.
 - 2 HELICAL PILES DESIGNED BY SUPPLIER. HELICAL PILES SHALL BE OUTSIDE OF EXISTING FOOTINGS. SEE PLAN SB101 FOR COLUMN REACTIONS.
 - 3 DRILL AND EPOXY FOOTING REINFORCING INTO EXISTING CONCRETE FOOTING WITH HILTI-HY 200 ADHESIVE (6" MIN EMBEDMENT).
 - 4 DRILL AND EPOXY HORIZONTAL WALL REINFORCING INTO EXISTING FOUNDATION WALL WITH HILTI-HY 200 ADHESIVE (6" MIN EMBEDMENT).
 - 5 INFILL EXISTING OPENING WITH NEW CONCRETE. REINFORCE W/ #4 BARS @ 18"OC EACH WAY. EACH FACE. DOWEL TO EXISTING W/ HILTI-HY 200 (4" MIN EMBD).

CONTRACTOR IS RESPONSIBLE FOR THE ENGINEERING DESIGN & INSTALLATION OF A TEMPORARY EARTH RETENTION SYSTEM AS REQUIRED TO CONSTRUCT THE FOUNDATIONS & LOWER LEVEL. COORDINATE PLACEMENT OF EARTH RETENTION SYSTEM W/ THE OWNER & CITY.

PARTIAL BASEMENT FOUNDATION PLAN
1/8" = 1'-0"



Revisions:	Date:

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STAMP

Professional Engineer
1100
MICHAEL P. MERRON
SOUTH DAKOTA
2-14-2025

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title
PARTIAL BASEMENT FOUNDATION PLAN

Approved:

Phase
BID DOCUMENTS

FULLY SPRINKLERED

Project Title
CONSTRUCT NEW SPS

Location
Sioux Falls, SD.

Issue Date
02/14/2025

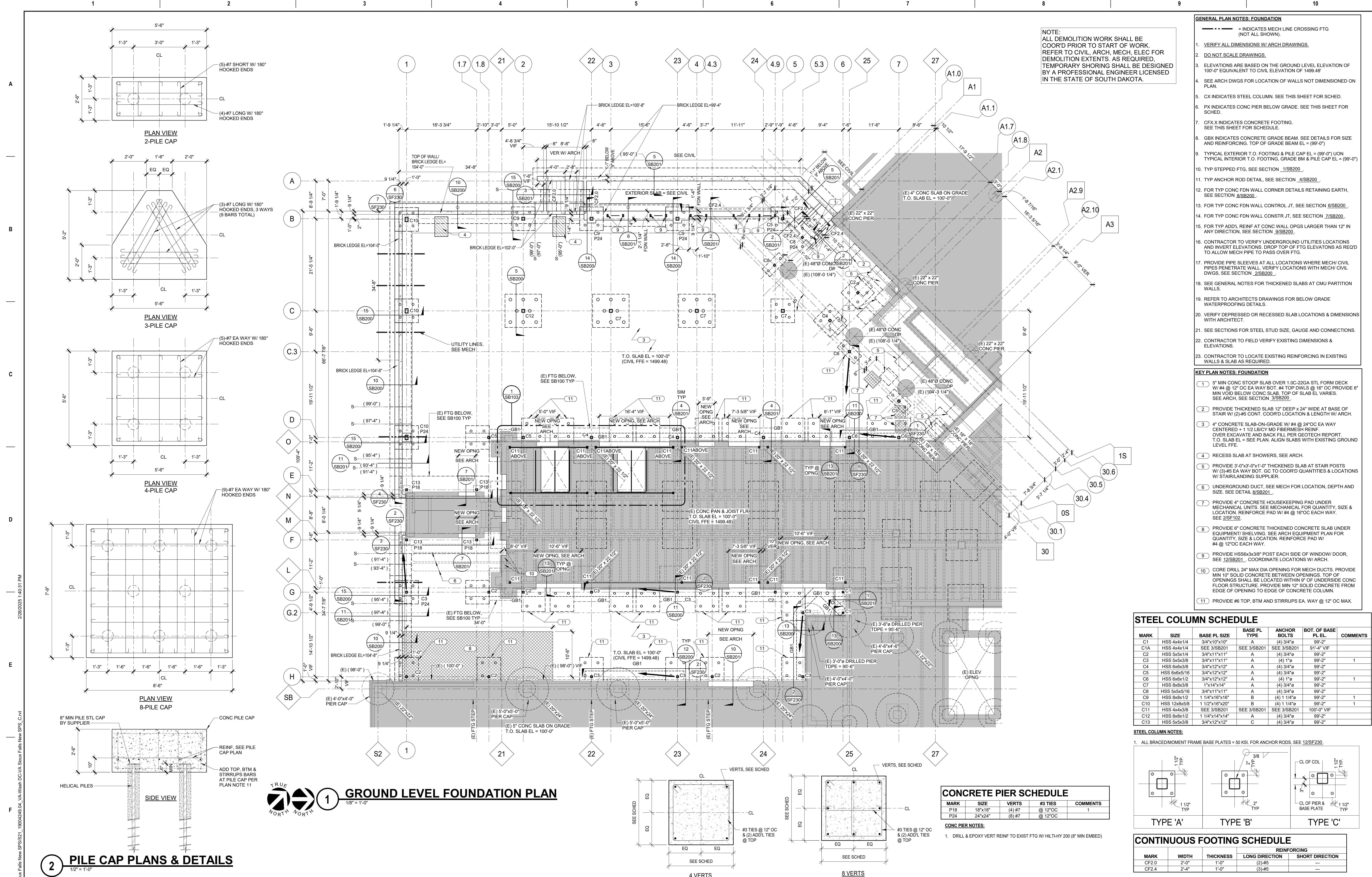
Checked
MPM/TGL

Drawn
MAQ

Project Number
438-460

Building Number
5

Drawing Number
SB100



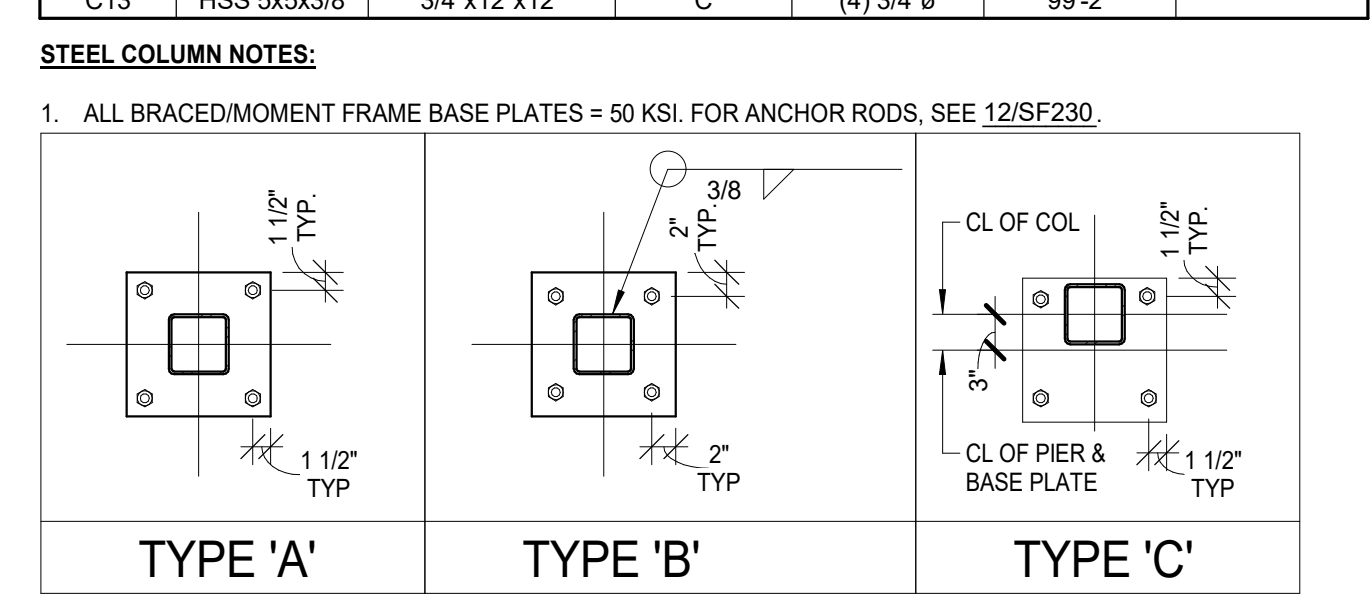
NOTE:
 ALL DEMOLITION WORK SHALL BE COORD PRIOR TO START OF WORK. REFER TO CIVIL, ARCH, MECH, ELEC FOR DEMOLITION EXTENTS. AS REQUIRED, TEMPORARY SHORING SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF SOUTH DAKOTA.

- GENERAL PLAN NOTES: FOUNDATION**
 (NOT ALL SHOWN)
- VERIFY ALL DIMENSIONS W/ ARCH DRAWINGS.
 - DO NOT SCALE DRAWINGS.
 - ELEVATIONS ARE BASED ON THE GROUND LEVEL ELEVATION OF 1499.48'
 - SEE ARCH DWGS FOR LOCATION OF WALLS NOT DIMENSIONED ON PLAN.
 - CX INDICATES STEEL COLUMN. SEE THIS SHEET FOR SCHED.
 - PX INDICATES CONC PIER BELOW GRADE. SEE THIS SHEET FOR SCHED.
 - CFX X INDICATES CONCRETE FOOTING. SEE THIS SHEET FOR SCHEDULE.
 - GBX INDICATES CONCRETE GRADE BEAM. SEE DETAILS FOR SIZE AND REINFORCING. TOP OF GRADE BEAM EL = (99'-0")
 - TYPICAL EXTERIOR T.O. FOOTING & PILE CAP EL = (99'-0") UN TYPICAL INTERIOR T.O. FOOTING, GRADE BM & PILE CAP EL = (99'-0")
 - TYP STEPPED FTG. SEE SECTION 4/SB200.
 - TYP ANCHOR ROD DETAIL. SEE SECTION 4/SB200.
 - FOR TYP CONC FDN WALL CORNER DETAILS RETAINING EARTH. SEE SECTION 4/SB200.
 - FOR TYP CONC FDN WALL CONTROL JT. SEE SECTION 6/SB200.
 - FOR TYP CONC FDN WALL CONSTR JT. SEE SECTION 7/SB200.
 - FOR TYP ADDL REINF AT CONC WALL OPGS LARGER THAN 12" IN ANY DIRECTION. SEE SECTION 4/SB200.
 - CONTRACTOR TO VERIFY UNDERGROUND UTILITIES LOCATIONS AND INVERT ELEVATIONS. DROP TOP OF FTG ELEVATIONS AS REQ'D TO ALLOW MECH PIPE TO PASS OVER FTG.
 - PROVIDE PIPE SLEEVES AT ALL LOCATIONS WHERE MECH/ CIVIL PIPES PENETRATE WALL. VERIFY LOCATIONS WITH MECH/ CIVIL DWGS. SEE SECTION 2/SB200.
 - SEE GENERAL NOTES FOR THICKENED SLABS AT CMU PARTITION WALLS.
 - REFER TO ARCHITECTS DRAWINGS FOR BELOW GRADE WATERPROOFING DETAILS.
 - VERIFY DEPRESSED OR RECESSED SLAB LOCATIONS & DIMENSIONS WITH ARCHITECT.
 - SEE SECTIONS FOR STEEL STUD SIZE, GAUGE AND CONNECTIONS.
 - CONTRACTOR TO FIELD VERIFY EXISTING DIMENSIONS & ELEVATIONS.
 - CONTRACTOR TO LOCATE EXISTING REINFORCING IN EXISTING WALLS & SLAB AS REQUIRED.

- KEY PLAN NOTES: FOUNDATION**
- 5" MIN CONC STOOOP SLAB OVER 1.0C-22GA STL FORM DECK W/ #4 @ 12" OC EA WAY BOT. #4 TOP DWLS @ 16" OC PROVIDE 6" MIN VOID BELOW CONC SLAB. TOP OF SLAB EL VARIES. SEE ARCH. SEE SECTION 3/SB200.
 - PROVIDE THICKENED SLAB 12" DEEP x 24" WIDE AT BASE OF STAIR W/ (2) #5 CONT. COORD LOCATIONS & LENGTH W/ ARCH.
 - 4" CONCRETE SLAB-ON-GRADE W/ #4 @ 24" OC EA WAY CENTERED +1 1/2" LB/CY MD FIBERMESH REINF. OVER EXCAVATE AND BACK FILL PER GEOTECH REPORT. T.O. SLAB EL = SEE PLAN. ALIGN SLABS WITH EXISTING GROUND LEVEL FFE.
 - RECESS SLAB AT SHOWERS. SEE ARCH.
 - PROVIDE 3'-0"x3'-0"x1'-0" THICKENED SLAB AT STAIR POSTS W/ (3) #5 EA WAY BOT. GC TO COORD QUANTITIES & LOCATIONS W/ STAIR/LANDING SUPPLIER.
 - UNDERGROUND DUCT. SEE MECH FOR LOCATION, DEPTH AND SIZE. SEE DETAIL 8/SB201.
 - PROVIDE 4" CONCRETE HOUSEKEEPING PAD UNDER MECHANICAL UNITS. SEE MECHANICAL FOR QUANTITY, SIZE & LOCATION. REINFORCE PAD W/ #4 @ 16" OC EACH WAY. SEE 2/SF102.
 - PROVIDE 6" CONCRETE THICKENED CONCRETE SLAB UNDER EQUIPMENT/ SHELVING. SEE ARCH EQUIPMENT PLAN FOR QUANTITY, SIZE & LOCATION. REINFORCE PAD W/ #4 @ 12" OC EACH WAY.
 - PROVIDE HSS 8x8x3/8 POST EACH SIDE OF WINDOW/ DOOR. SEE 12/SB201. COORDINATE LOCATIONS W/ ARCH.
 - CORE DRILL 24" MAX DIA OPENING FOR MECH DUCTS. PROVIDE MIN 10" SOLID CONCRETE BETWEEN OPENINGS. TOP OF OPENINGS SHALL BE LOCATED WITHIN 9" OF UNDERSIDE CONC FLOOR STRUCTURE. PROVIDE MIN 12" SOLID CONCRETE FROM EDGE OF OPENING TO EDGE OF CONCRETE COLUMN.
 - PROVIDE #6 TOP, BTM AND STIRRUPS EA. WAY @ 12" OC MAX.

STEEL COLUMN SCHEDULE

MARK	SIZE	BASE PL SIZE	BASE PL TYPE	ANCHOR BOLTS	BOT. OF BASE PL EL.	COMMENTS
C1	HSS 4x4x1/4	3/4"x10"x10"	A	(4) 3/4"	99'-2"	
C1A	HSS 4x4x1/4	SEE 3/SB201	SEE 3/SB201	SEE 3/SB201	91'-4" VIF	
C2	HSS 5x5x3/8	3/4"x11"x11"	A	(4) 3/4"	99'-2"	
C3	HSS 5x5x3/8	3/4"x11"x11"	A	(4) 1"	99'-2"	1
C4	HSS 6x6x3/8	3/4"x12"x12"	A	(4) 3/4"	99'-2"	
C5	HSS 6x6x3/8	3/4"x12"x12"	A	(4) 3/4"	99'-2"	
C6	HSS 6x6x3/8	3/4"x12"x12"	A	(4) 1"	99'-2"	1
C7	HSS 6x6x3/8	1 1/4"x14"x14"	A	(4) 3/4"	99'-2"	
C8	HSS 5x5x3/8	3/4"x11"x11"	A	(4) 3/4"	99'-2"	
C9	HSS 8x8x1/2	1 1/4"x16"x16"	B	(4) 1 1/4"	99'-2"	1
C10	HSS 12x6x5/8	1 1/2"x16"x20"	B	(4) 1 1/4"	99'-2"	1
C11	HSS 4x4x3/8	SEE 3/SB201	SEE 3/SB201	SEE 3/SB201	100'-0" VIF	
C12	HSS 8x8x1/2	1 1/4"x14"x14"	A	(4) 3/4"	99'-2"	
C13	HSS 5x5x3/8	3/4"x12"x12"	C	(4) 3/4"	99'-2"	



CONCRETE PIER SCHEDULE

MARK	SIZE	VERTS	# TIES	COMMENTS
P18	18"x18"	(4) #7	@ 12" OC	1
P24	24"x24"	(8) #7	@ 12" OC	

CONC PIER NOTES:
 1. DRILL & EPOXY VERT REIN TO EXIST FTG W/ HLTHY 200 (8" MIN EMBED)

CONTINUOUS FOOTING SCHEDULE

MARK	WIDTH	THICKNESS	LONG DIRECTION REINFORCING	SHORT DIRECTION
CF2.0	2'-0"	1'-0"	(2) #5	---
CF2.4	2'-4"	1'-0"	(3) #5	---



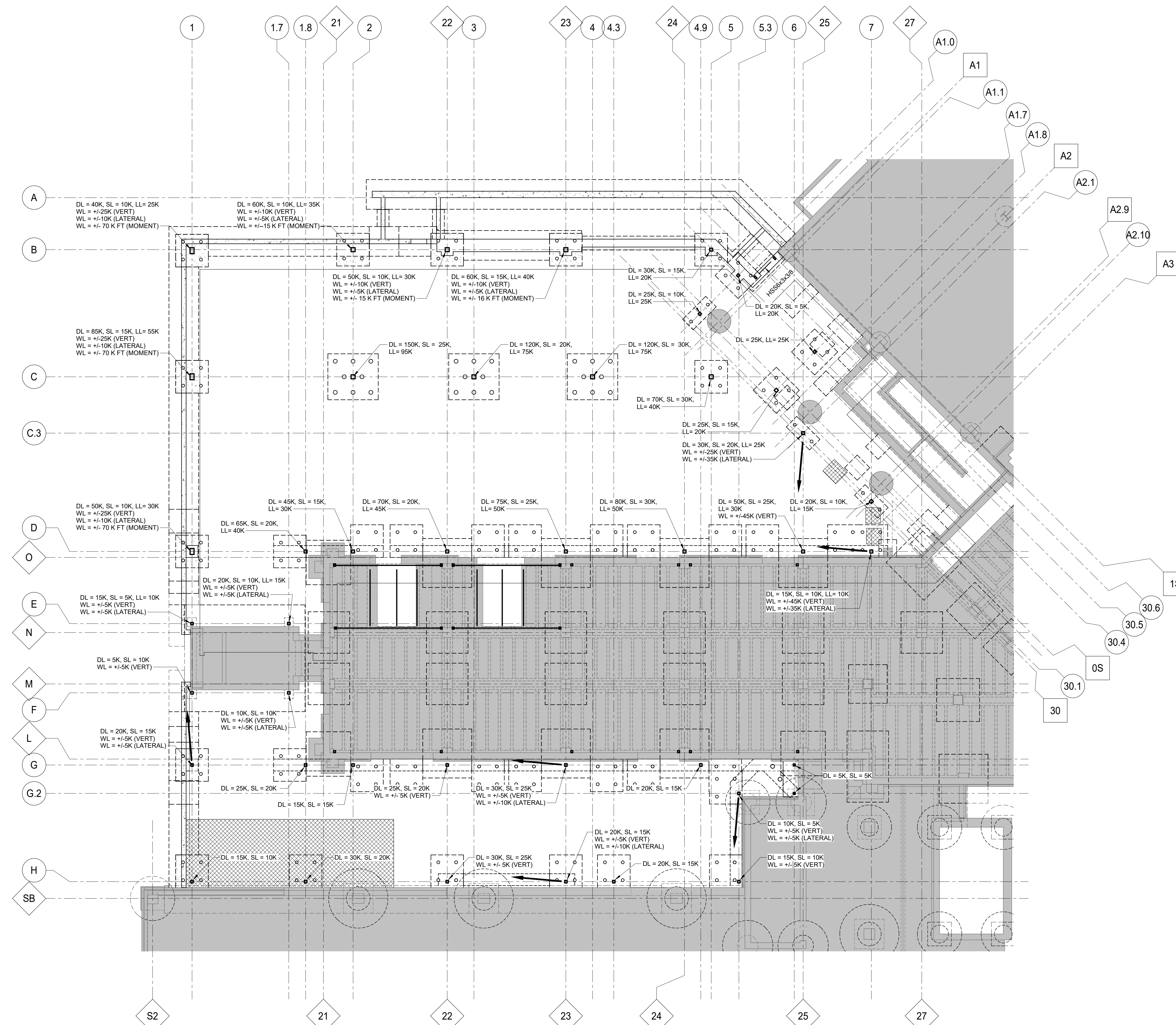
GROUND LEVEL FOUNDATION PLAN
 1/8" = 1'-0"



CONSULTANT 12755 HIGHWAY 55 SUITE 100 MINNEAPOLIS, MN 55441 P 763.412.4000 F 763.412.4090 ae-mn.com ANDERSON ENGINEERING OF MINNESOTA, LLC Proj # 16584	ARCHITECT/ENGINEER OF RECORD ANDERSON 13605 1st Ave. N. #100 Plymouth, MN 55441 P 763.412.4000 F 763.412.4090 ae-mn.com Anderson Engineering of Minnesota, LLC Proj # 16584	STAMP 	Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs	Drawing Title GROUND LEVEL FOUNDATION PLAN	Phase BID DOCUMENTS	Project Title CONSTRUCT NEW SPS	Project Number 438-460
				Approved:	FULLY SPRINKLERED	Location Sioux Falls, SD.	Building Number 5
Revisions:	Date:	Issue Date 02/14/2025	Checked MPM/TGL	Drawn MAQ	Drawing Number SB101		

GENERAL PLAN NOTES: HELICAL PILE DESIGN

- PILE LAYOUT IS APPROXIMATE ONLY. FINAL DESIGN AND LAYOUT BY PILE CONTRACTOR, FOR BIDDING PURPOSE. STEEL HELICAL PILE ESTIMATED LENGTH 30 FEET. MICROPILE ESTIMATED LENGTH OF 80 FEET.
- REACTION ARE UNFACTORED.



1 GROUND LEVEL COLUMN LOADS
1/8" = 1'-0"

Revisions:	Date:

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Professional Engineer
1100
MICHAEL P. MERRON
2-14-2025

Office of
Construction
and Facilities
Management

VA U.S. Department
of Veterans
Affairs

Drawing Title
GROUND LEVEL COLUMN LOADS

Approved:

Phase
BID DOCUMENTS

FULLY SPRINKLERED

Project Title
CONSTRUCT NEW SPS

Location
Sioux Falls, SD.

Issue Date
02/14/2025

Checked
MPM/TGL

Drawn
MAQ

Project Number
438-460

Building Number
5

Drawing Number
SB102

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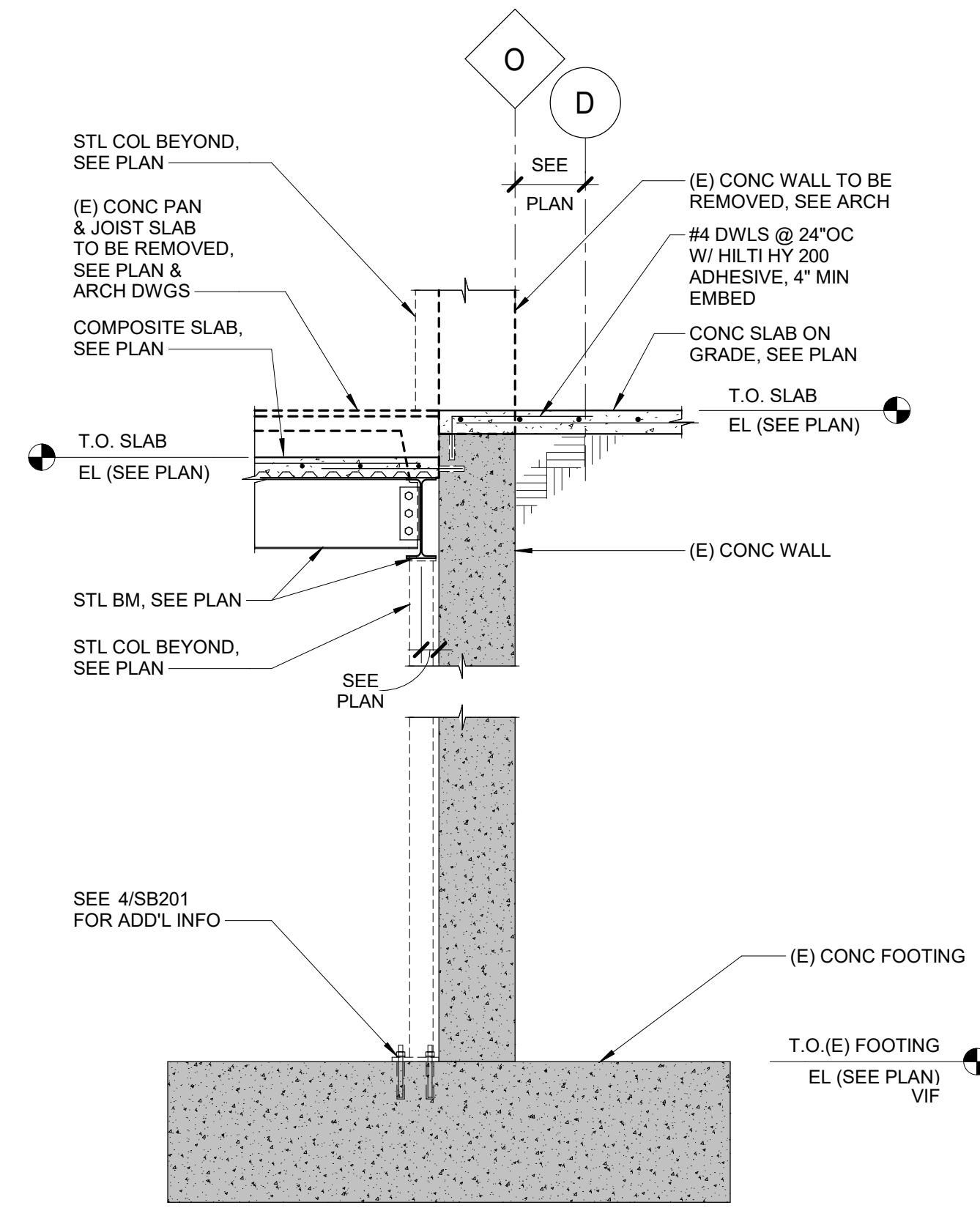
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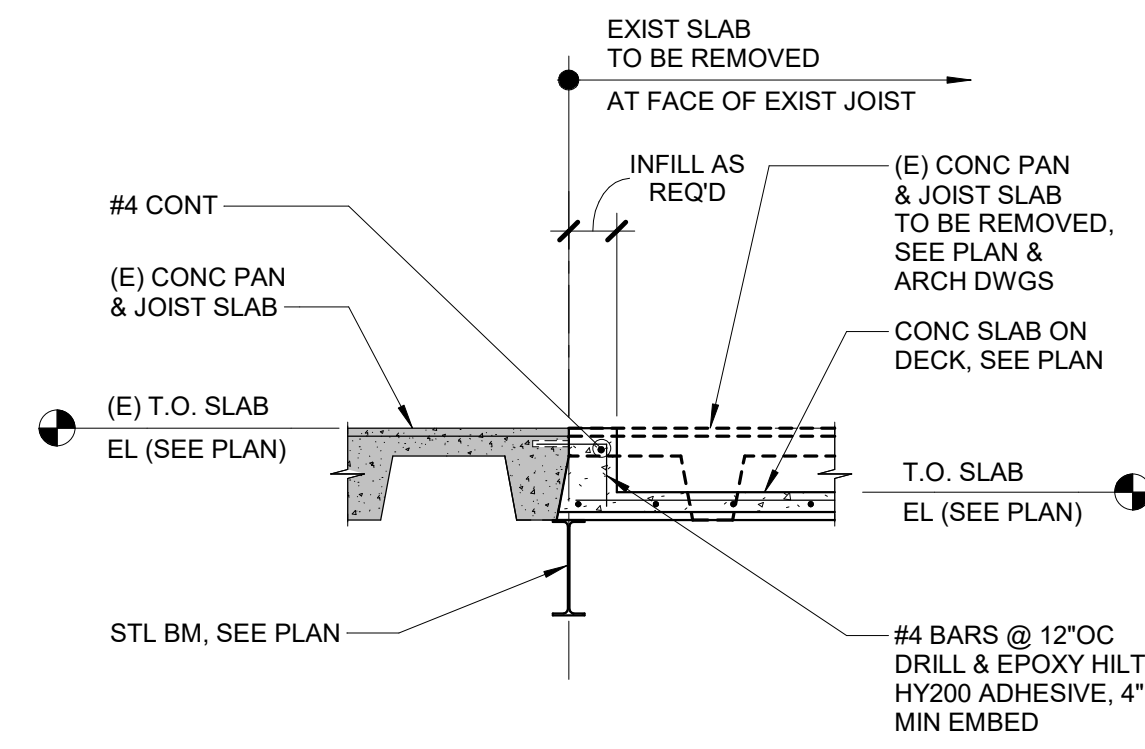
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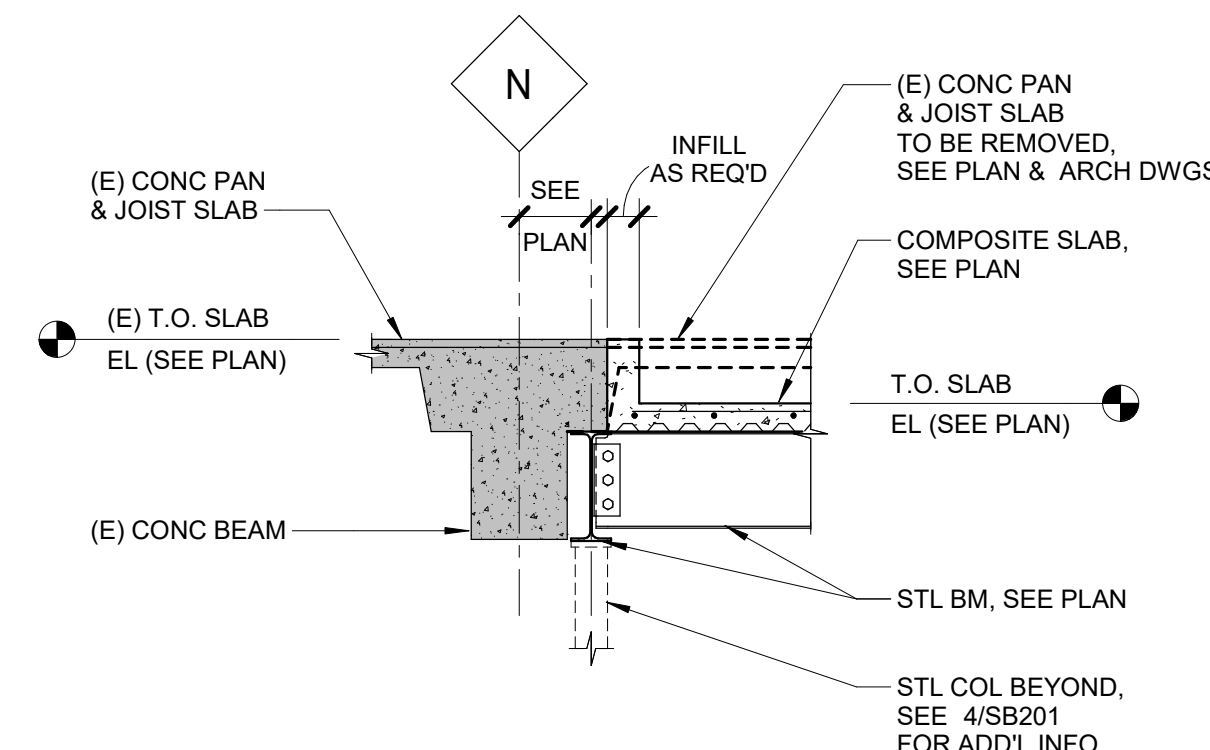
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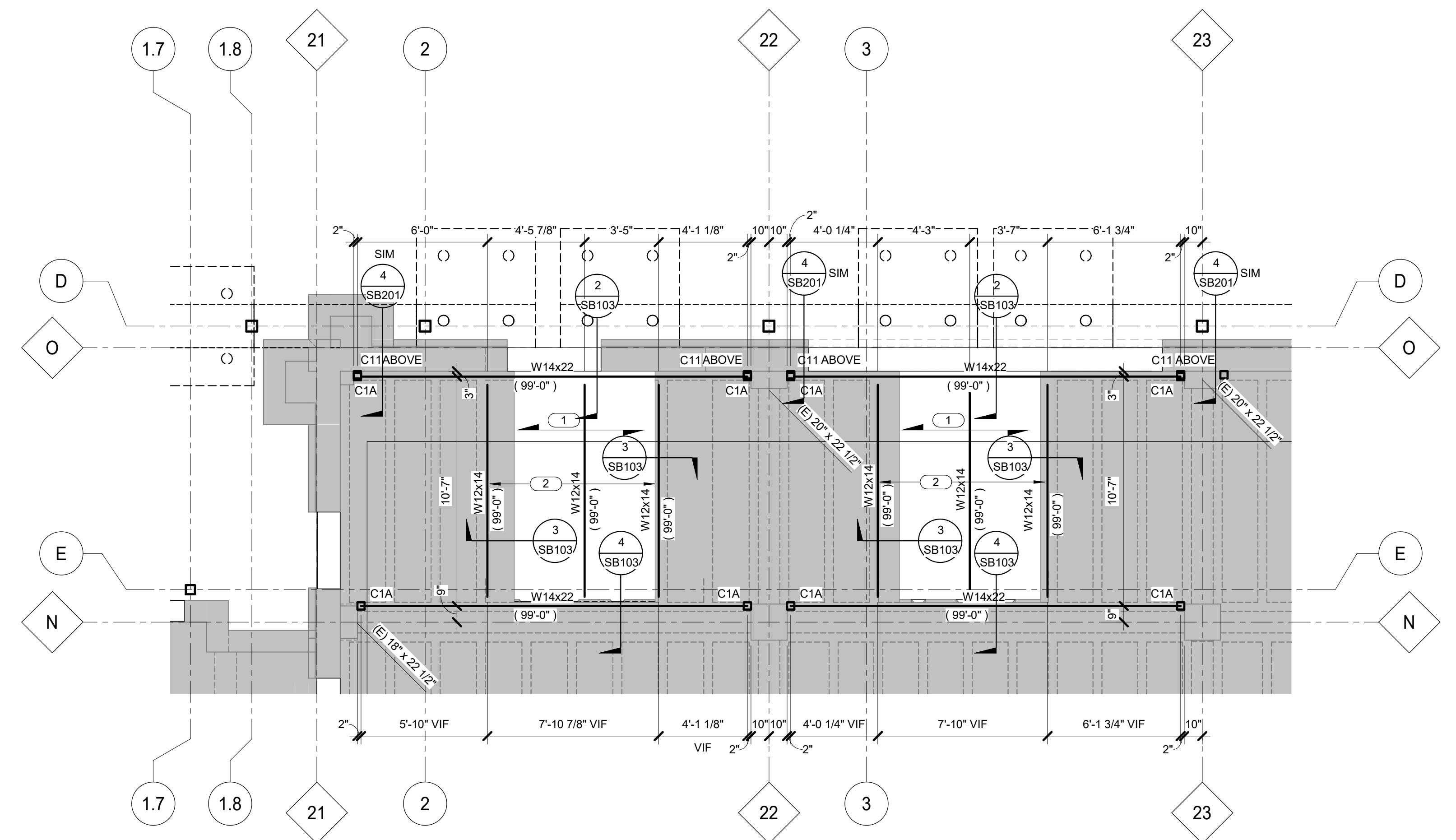
2 SECTION AT CART WASH
1/2" = 1'-0"



3 SECTION AT CART WASH
1/2" = 1'-0"



4 SECTION AT CART WASH
1/2" = 1'-0"



1 LEVEL 01 CART WASH FLOOR FRAMING PLAN
1/4" = 1'-0"

- GENERAL PLAN NOTES: FLOOR**
- VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
 - DO NOT SCALE DRAWINGS.
 - FOR SCHEDULES SEE SHEET SB101.
 - FOR PERMISSIBLE CONSTRUCTION JOINT LOCATIONS IN COMPOSITE SLABS, SEE 2/SF210.
 - FOR OPENINGS IN COMPOSITE SLABS, SEE 1/SF210. FOR OPENINGS LARGER THAN 24" PROVIDE W10X12 FRAME AROUND OPG. VERIFY SIZE, LOCATION AND QTY WITH ARCH & MECH.
 - VERIFY ALL OPENINGS IN SLAB WITH ARCHITECT & MECHANICAL.
 - VERIFY EXISTING DIMENSIONS & ELEVATIONS.
 - CONTRACTOR TO LOCATE REINFORCING IN EXISTING WALLS & SLABS AS REQUIRED.

- KEY PLAN NOTES: FLOOR FRAMING**
- 4" TOTAL COMPOSITE CONCRETE FLOOR SLAB W/ #4 @ 12" OC EA WAY DOWELED TO EXISTING SLAB. OVER 1.0C-20 GA FORM DECK OR APPROVED EQUAL (3" CONC SLAB + 1" DECK = 4" MIN TOTAL SLAB THICKNESS).
T.O. SLAB EL = 99'-4" (SLOPE SLAB PER ARCH DRAWINGS) 4" MIN SLAB THICKNESS.
 - DEMO EXISTING SLAB AT FACE OF EXIST CONC JOIST. SEE SECTION 3/SB103.

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STAMP

Professional Engineer
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2-14-2025

Office of
Construction
and Facilities
Management

VA U.S. Department
of Veterans
Affairs

Drawing Title
ENLARGED PLANS AND SECTIONS

Approved:

Phase
BID DOCUMENTS

FULLY SPRINKLERED

Project Title
CONSTRUCT NEW SPS

Location
Sioux Falls, SD.

Issue Date
02/14/2025

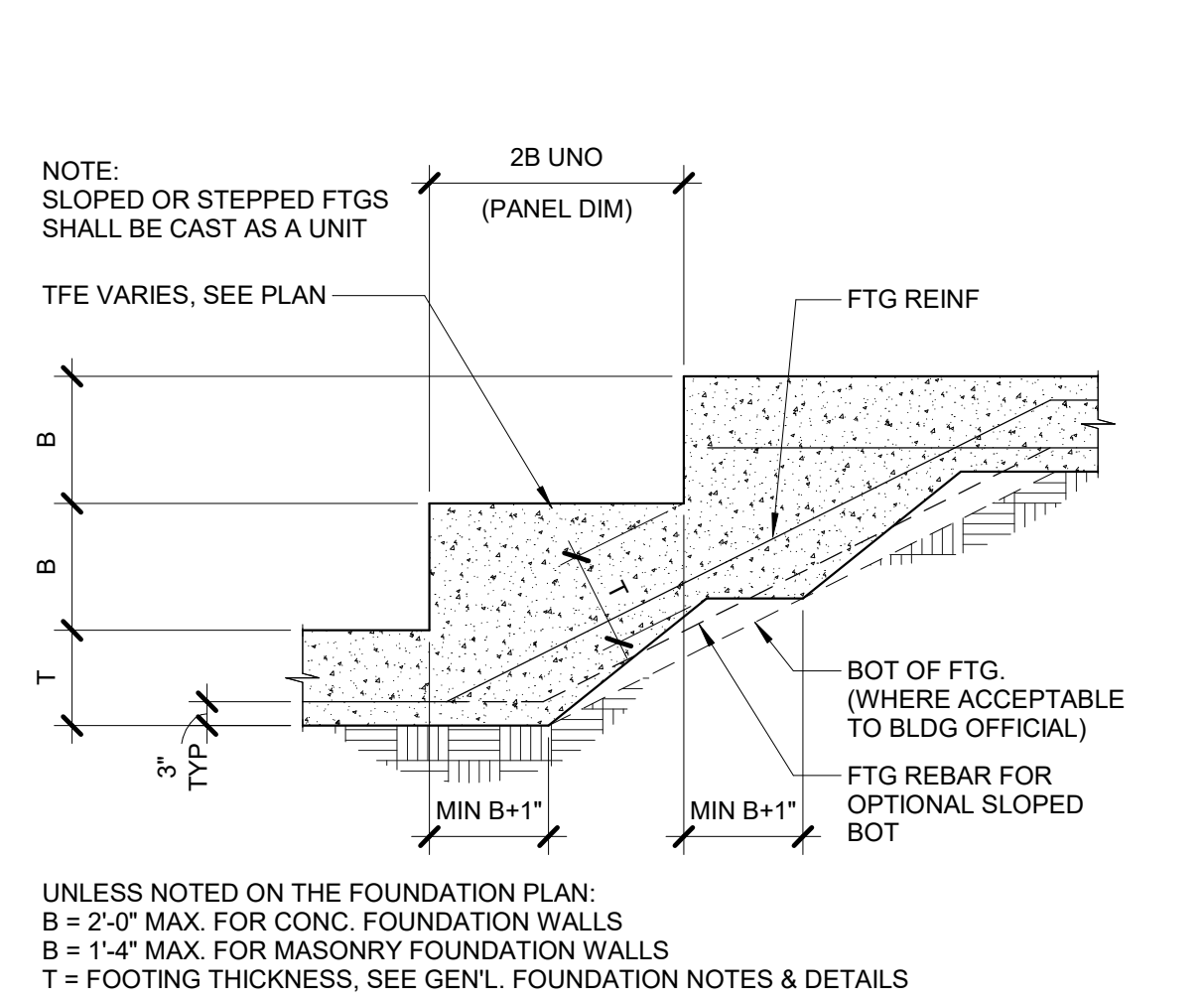
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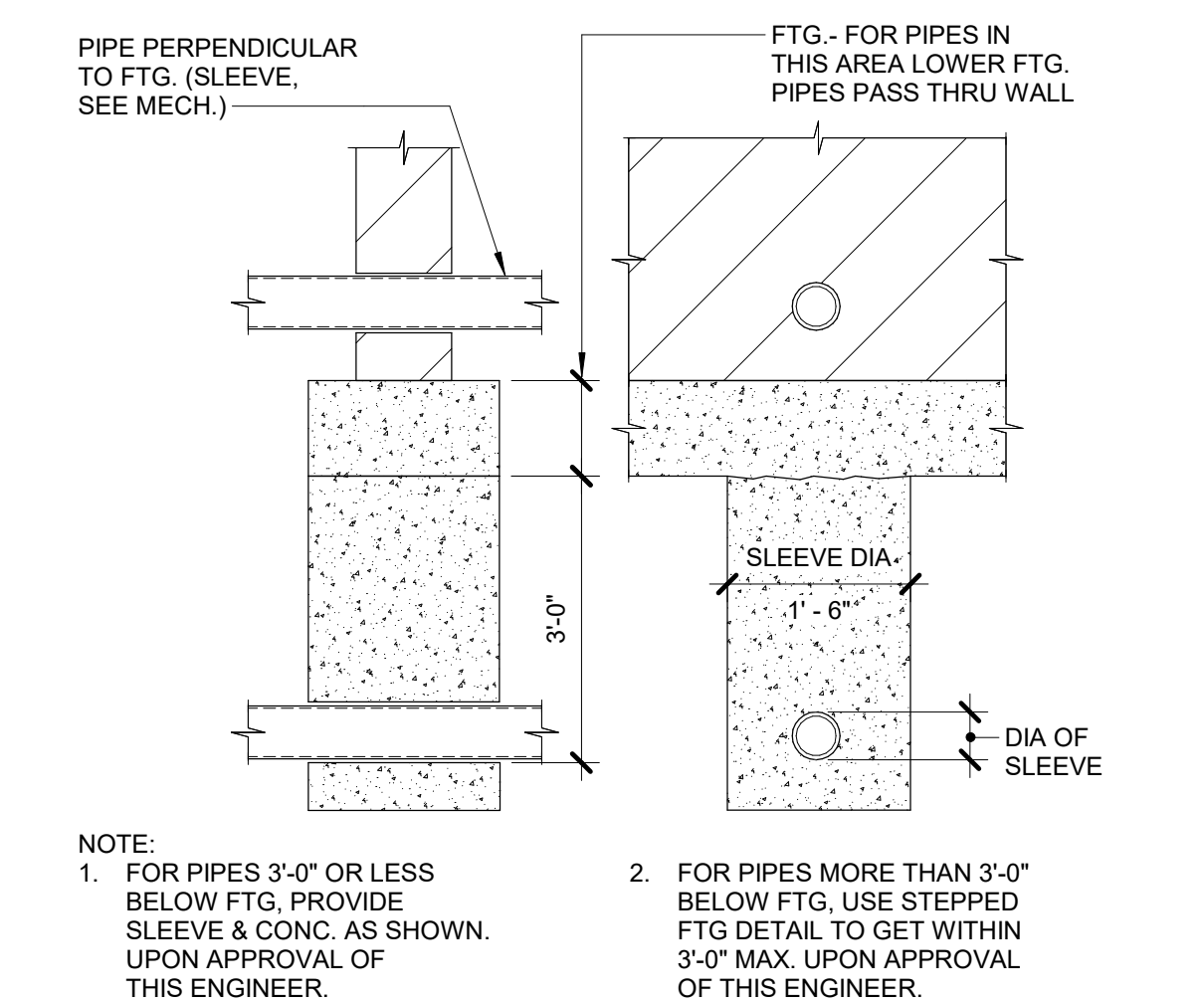
Project Number
438-460

Building Number
5

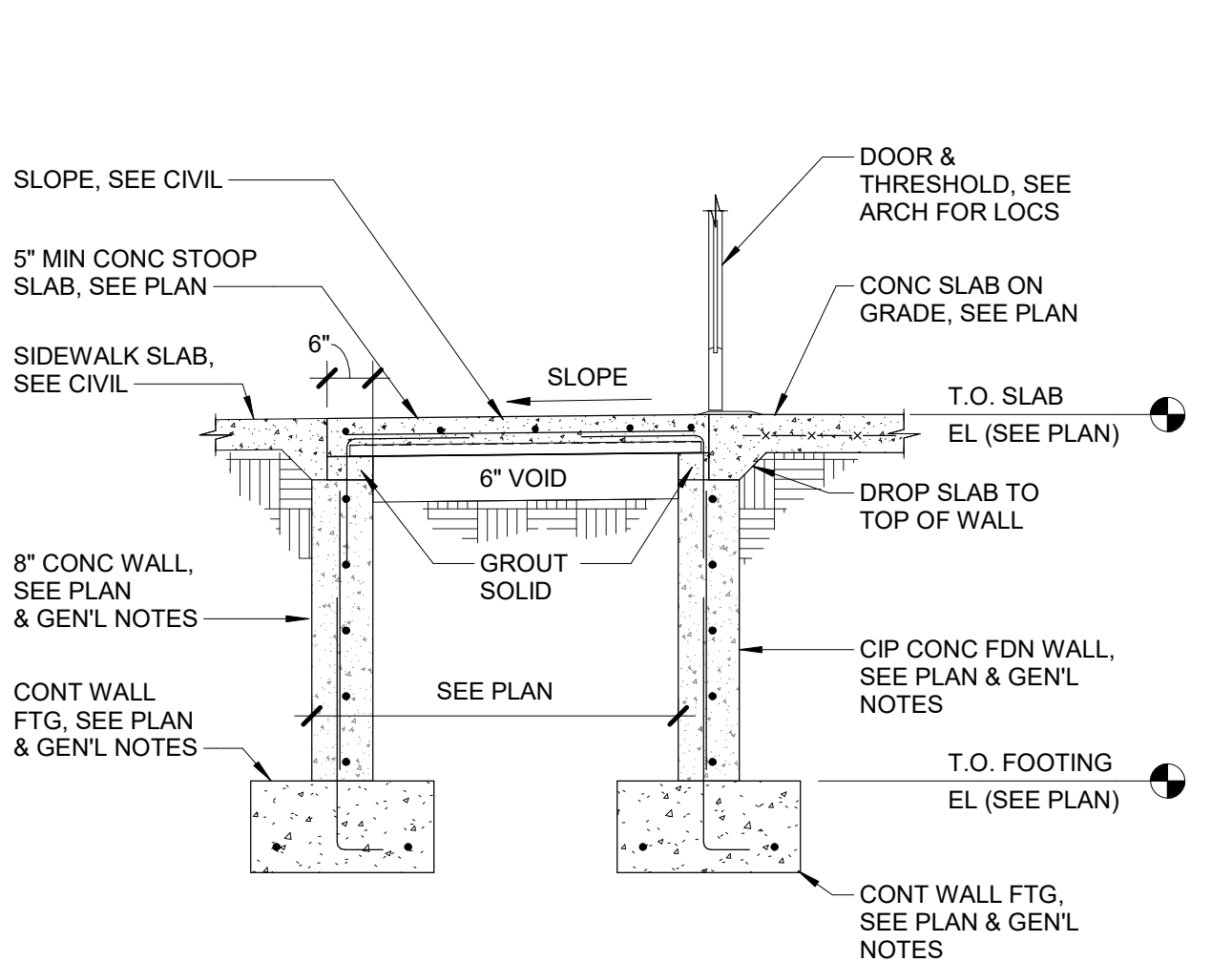
Drawing Number
SB103



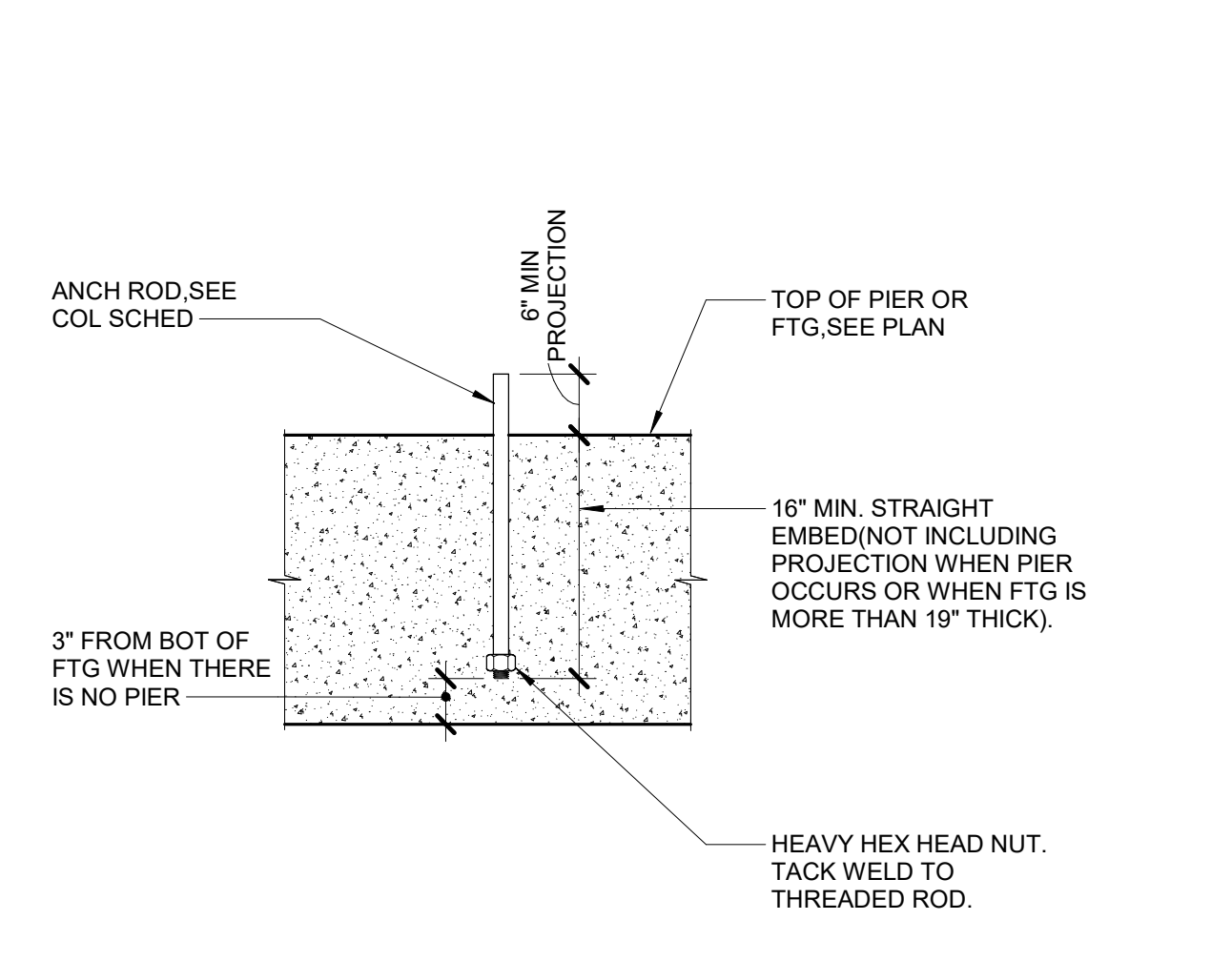
1 TYPICAL FOOTING STEP DETAIL
1/2" = 1'-0"



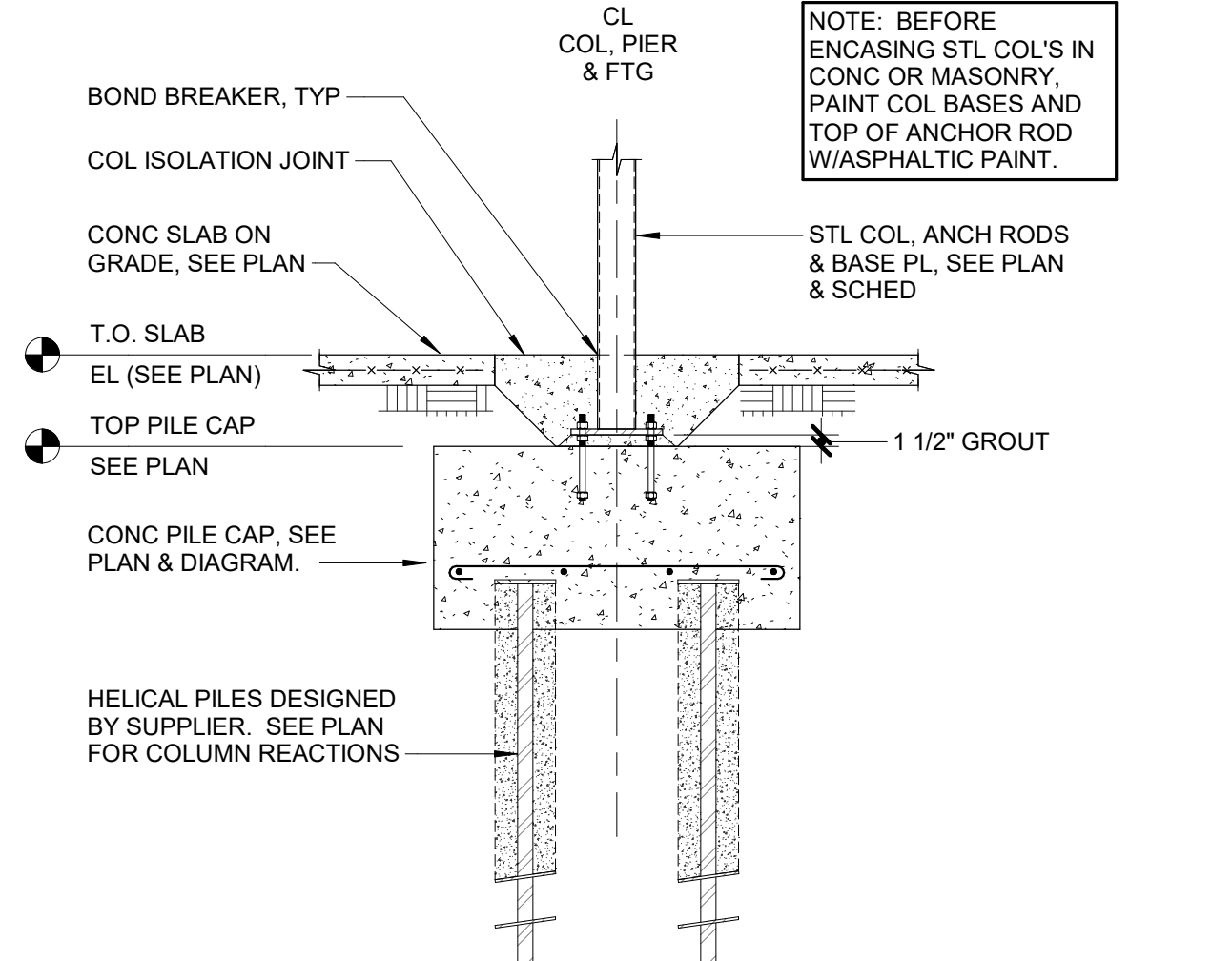
2 FOUNDATION PIPE SLEEVE DETAIL
1/2" = 1'-0"



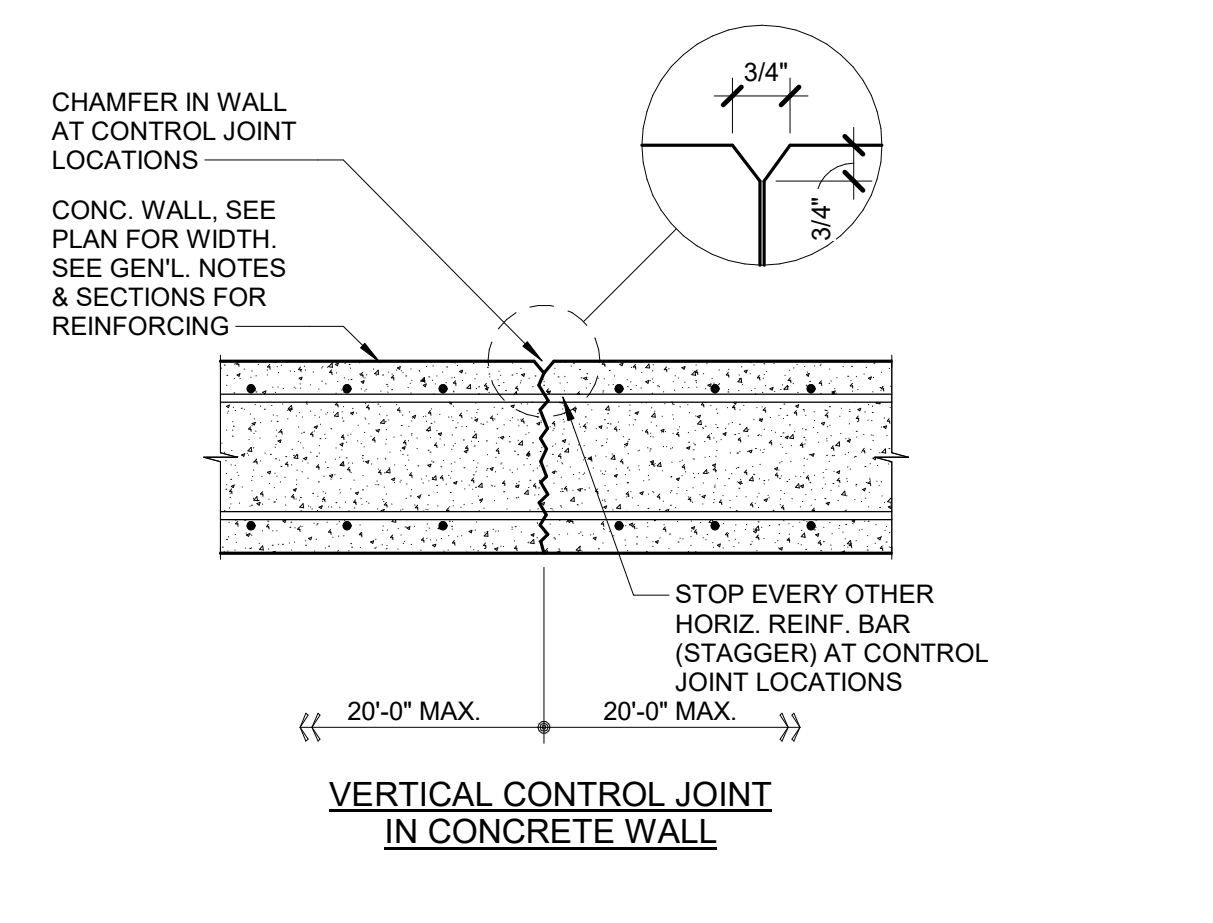
3 TYPICAL STOOP DETAIL
1/2" = 1'-0"



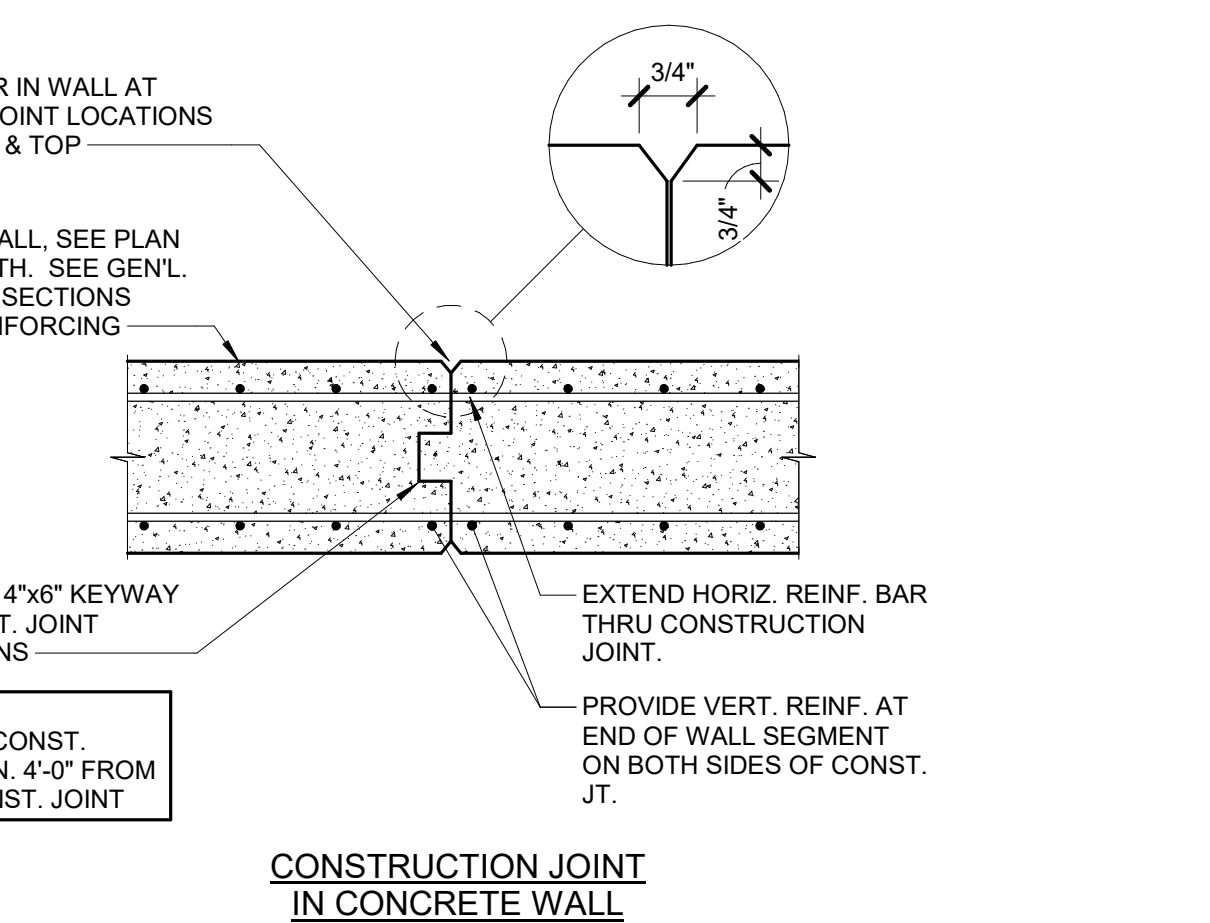
4 TYPICAL ANCHOR ROD DETAIL
1/2" = 1'-0"



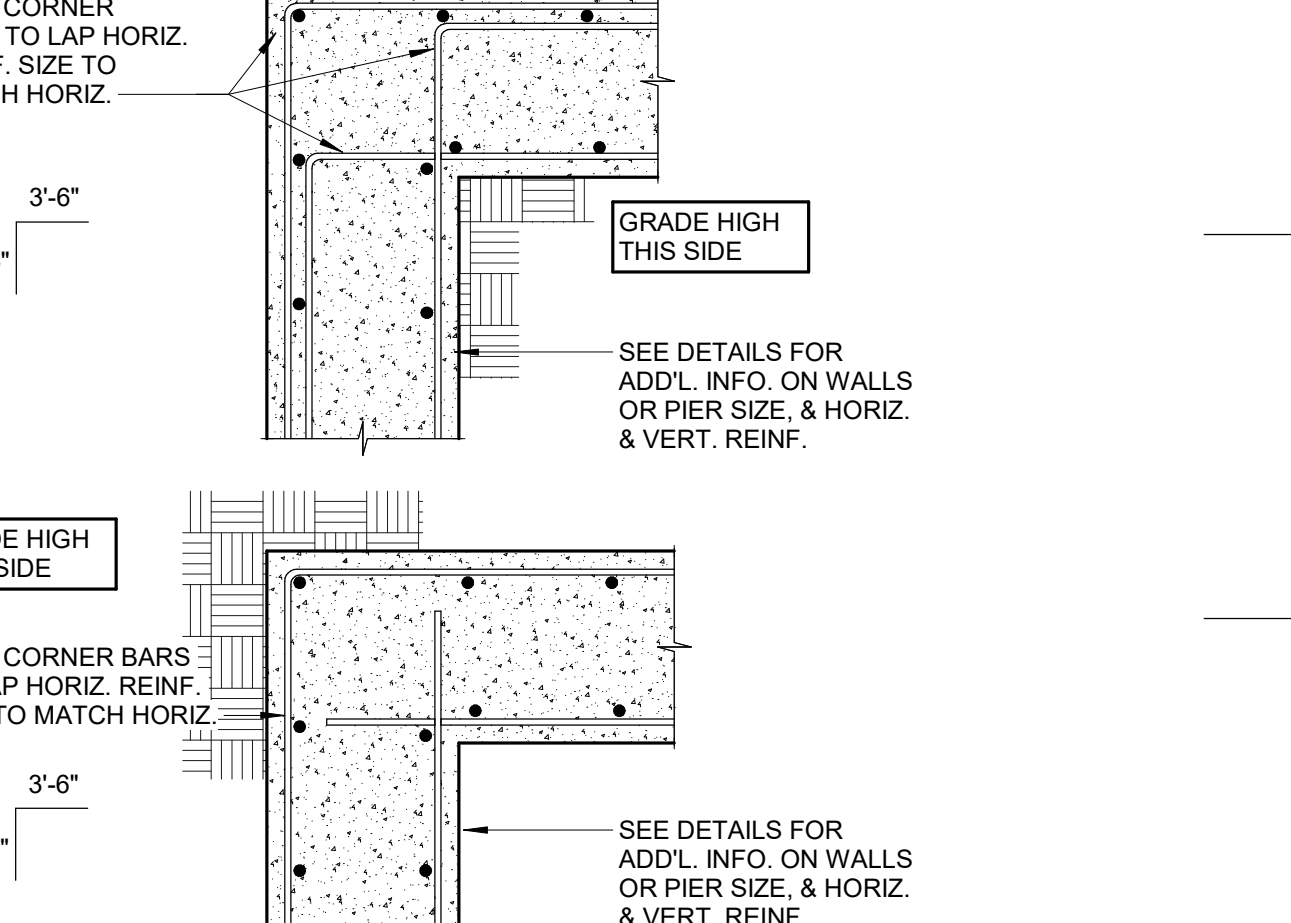
5 TYPICAL INTERIOR COLUMN & PIER
1/2" = 1'-0"



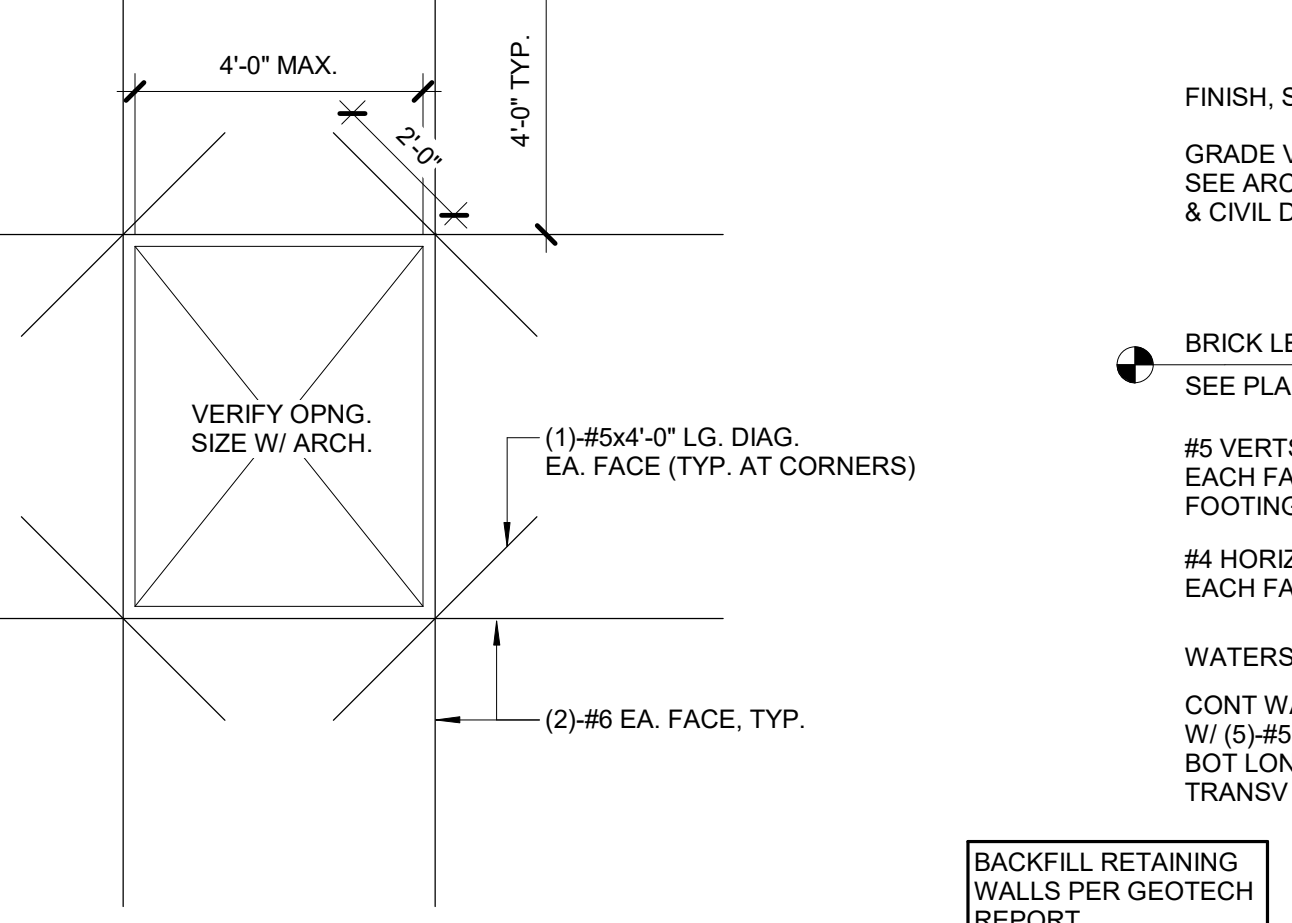
6 PLAN VIEW - CONTROL JOINT
1/2" = 1'-0"



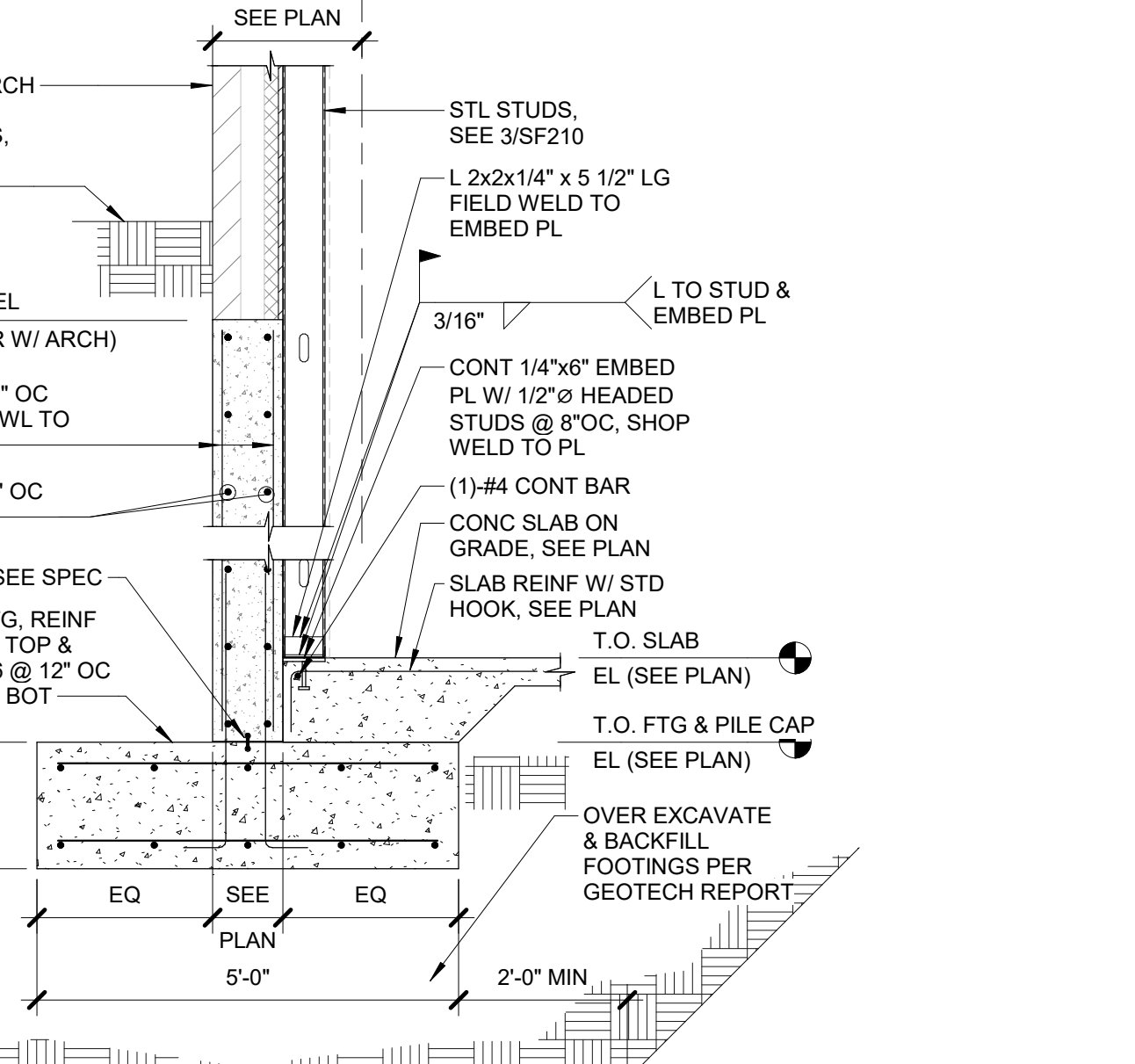
7 PLAN VIEW - CONSTRUCTION JOINT
1/2" = 1'-0"



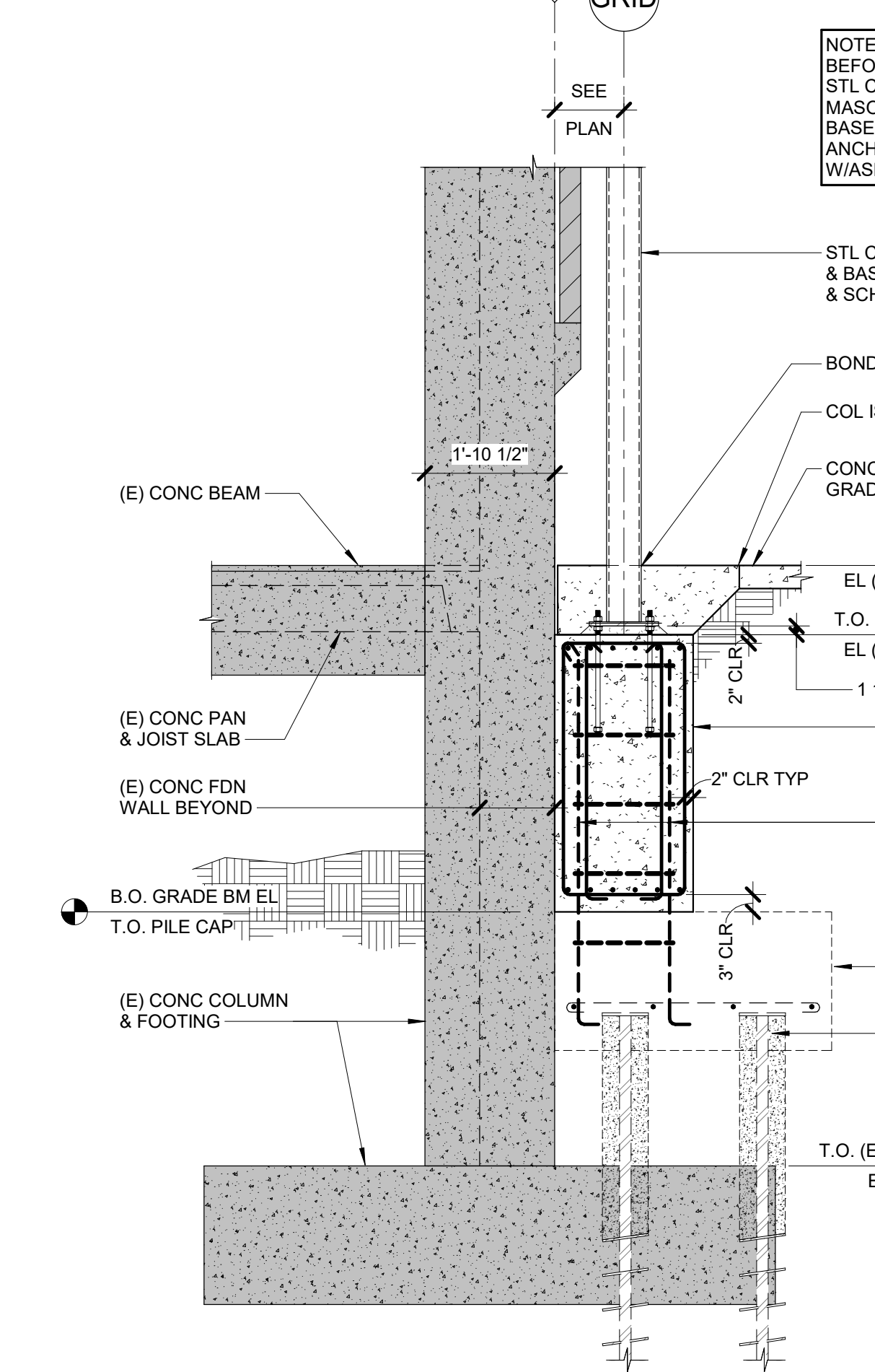
8 PLAN VIEW - TYP. FND. WALL CORNER
3/4" = 1'-0"



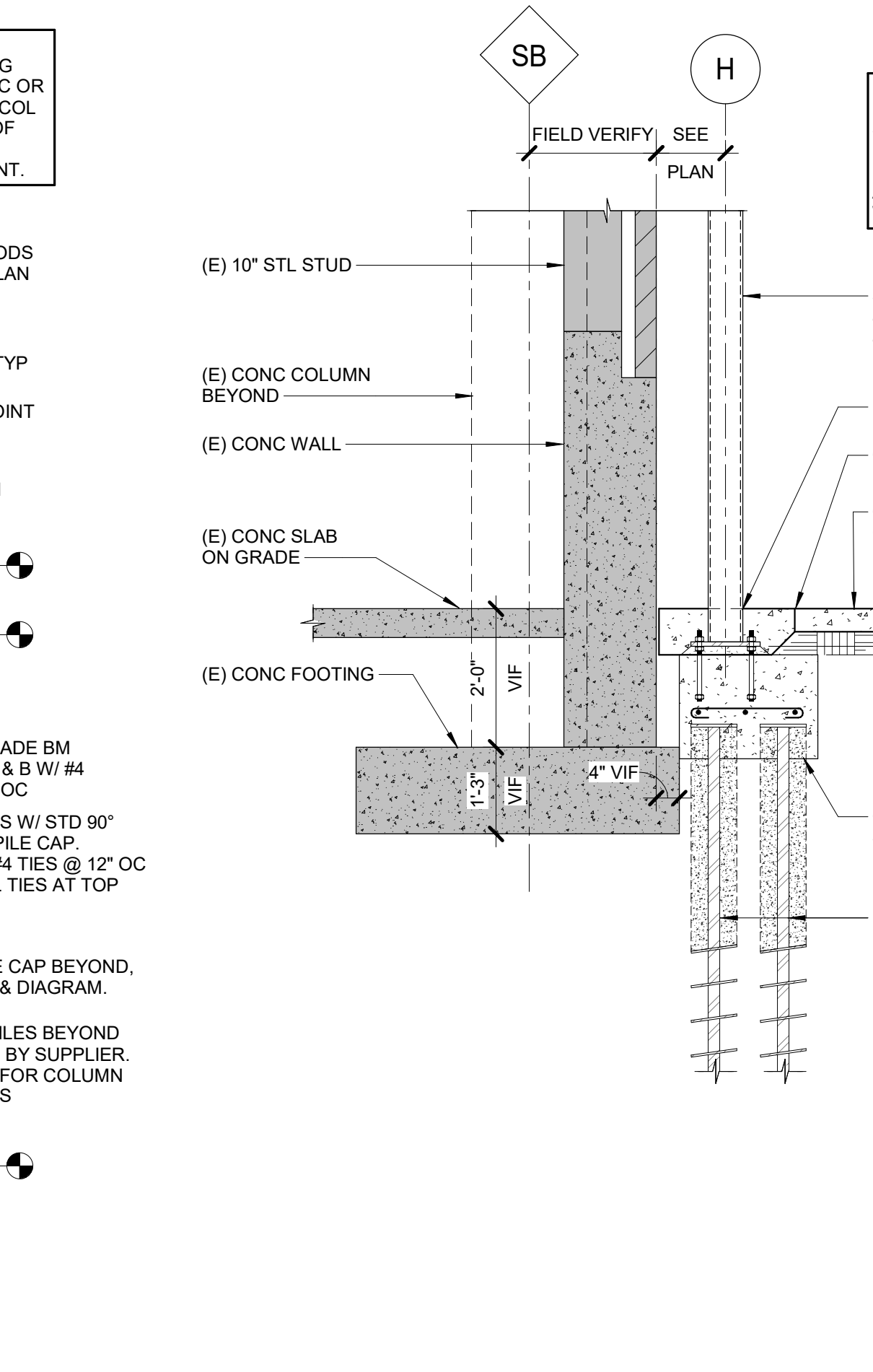
9 DETAIL - CONC. WALL OPNG.
NOT TO SCALE



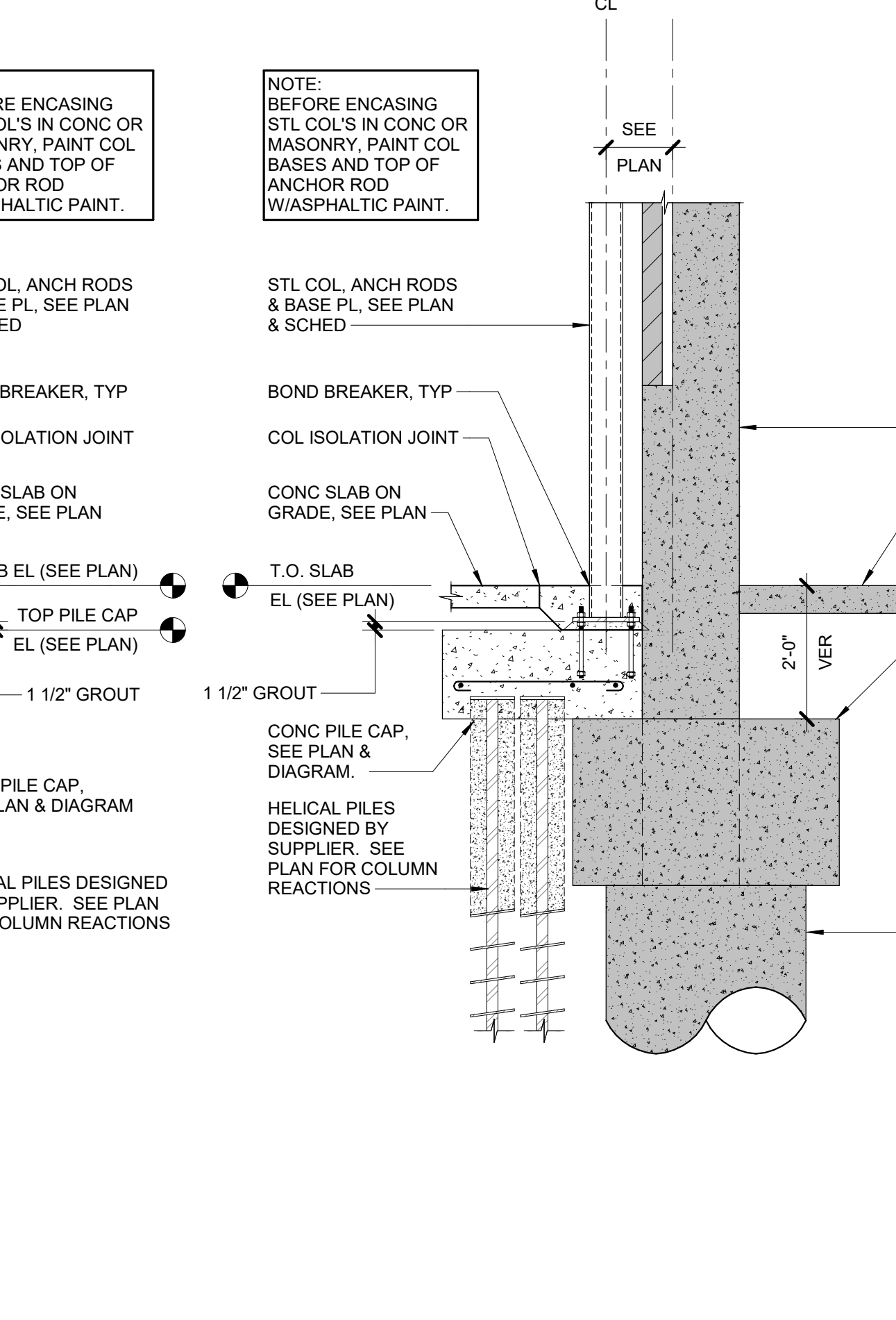
10 TYPICAL EXT FDN WALL
1/2" = 1'-0"



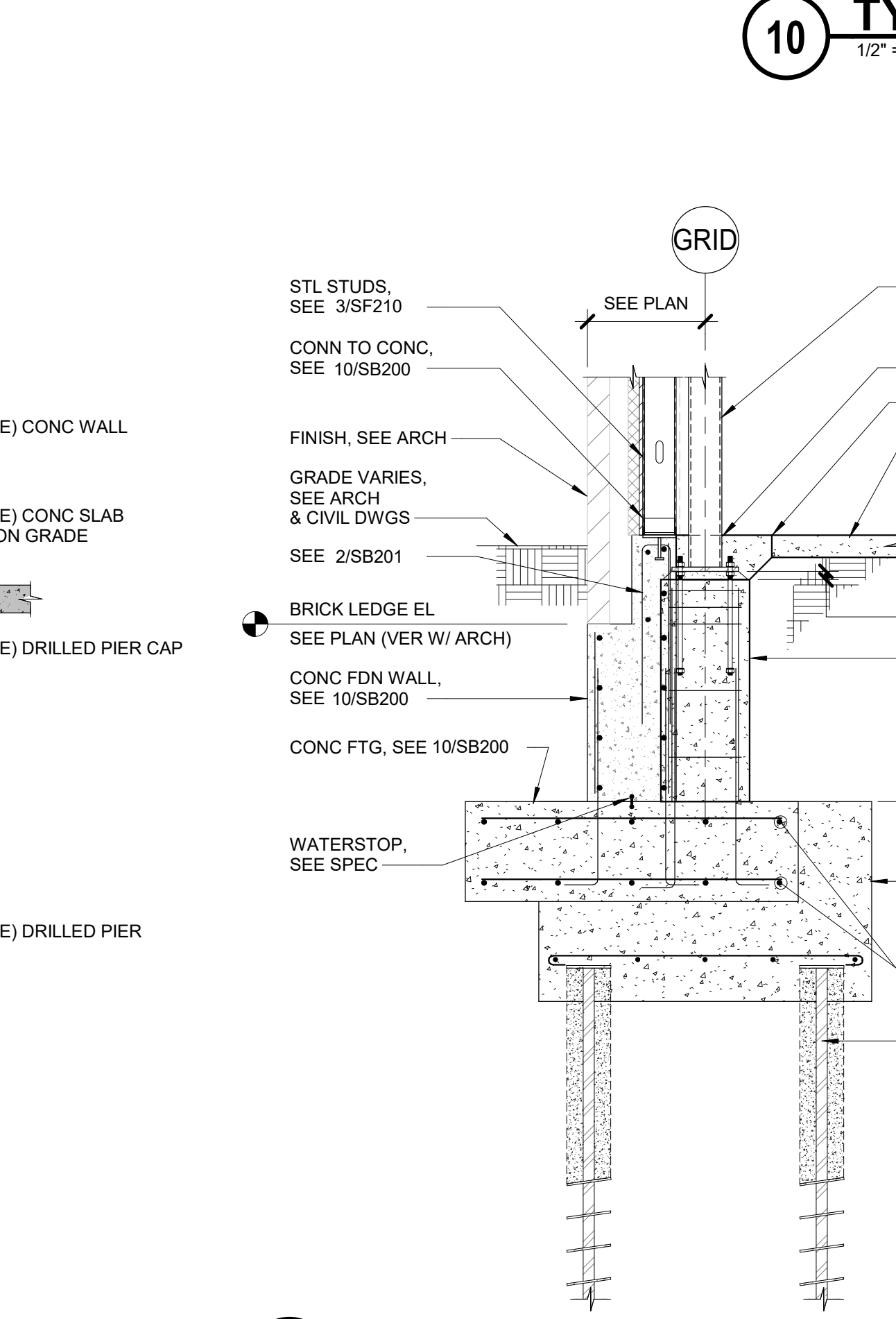
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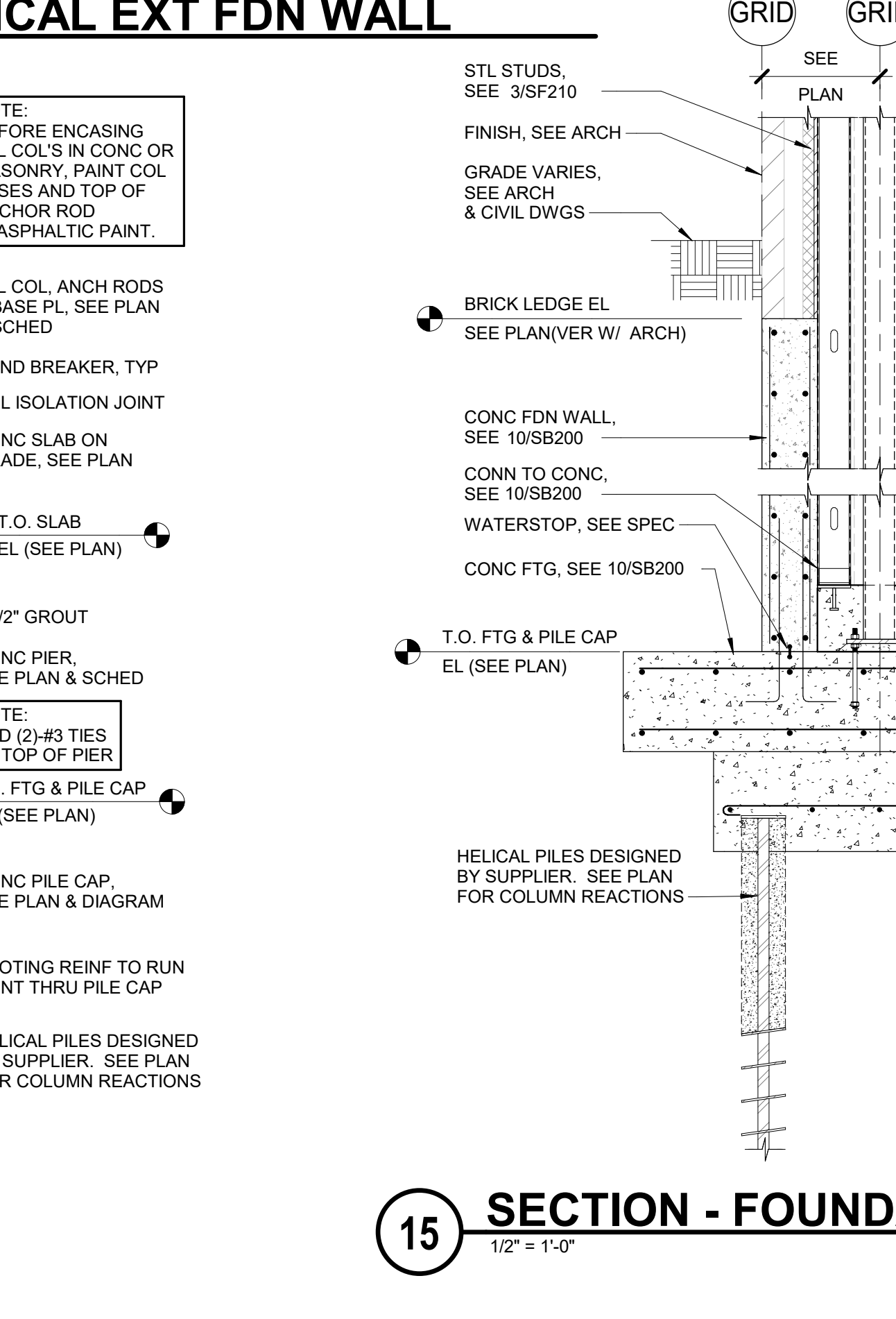
12 SECTION - FOUNDATION
1/2" = 1'-0"



13 SECTION - FOUNDATION
1/2" = 1'-0"



14 SECTION - FOUNDATION
1/2" = 1'-0"



15 SECTION - FOUNDATION
1/2" = 1'-0"

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VA FORM 08 - 6231

Revisions:	Date:

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0 1 2 3

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Anderson Engineering of Minnesota, LLC | Proj # 16684

STAMP

Professional Engineer
1100 MICHAEL P. MERRON
2-14-2025

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title
SECTIONS - FOUNDATION

Approved:

Phase
BID DOCUMENTS

FULLY SPRINKLERED

Project Title
CONSTRUCT NEW SPS

Location
Sioux Falls, SD.

Issue Date
02/14/2025

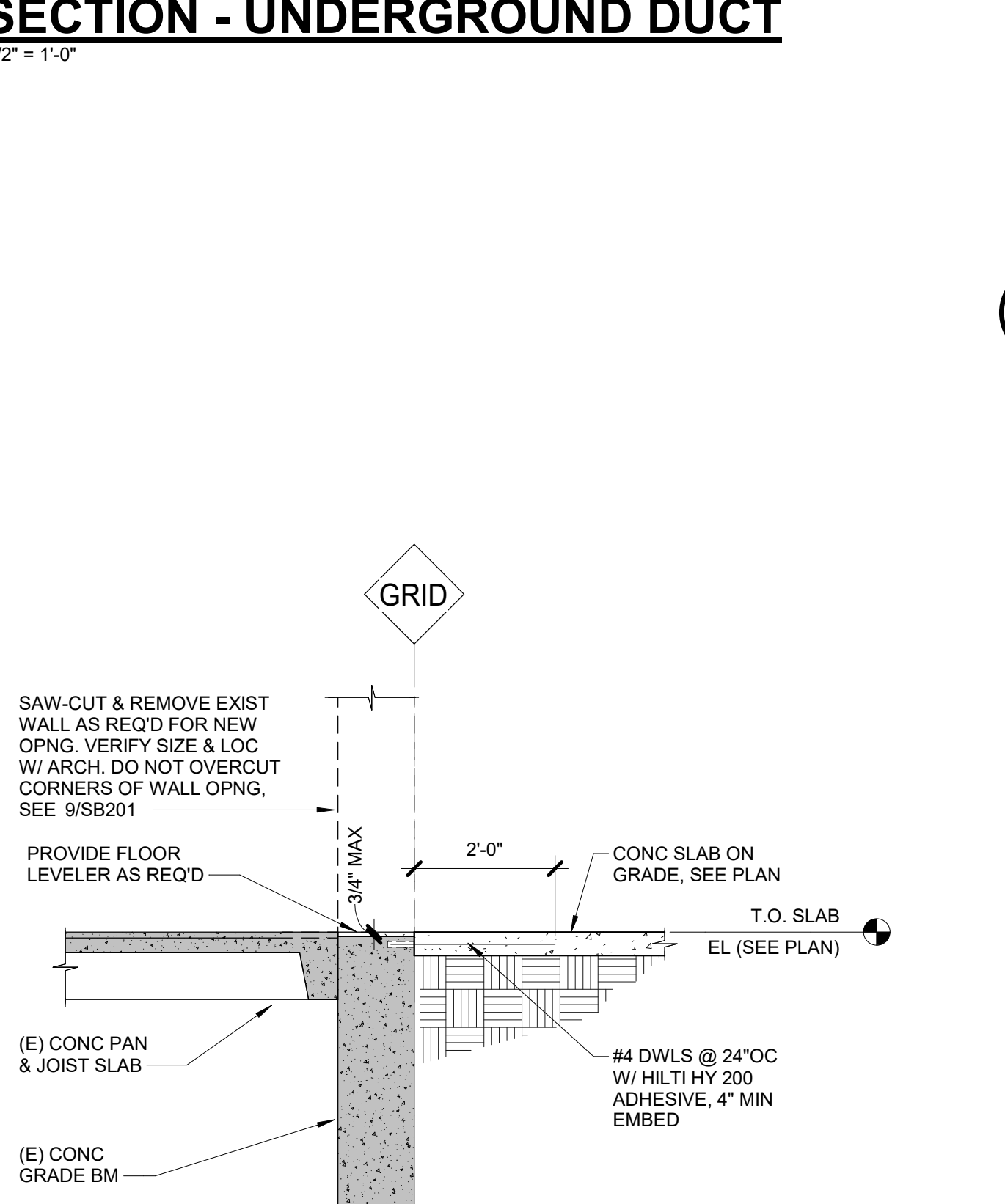
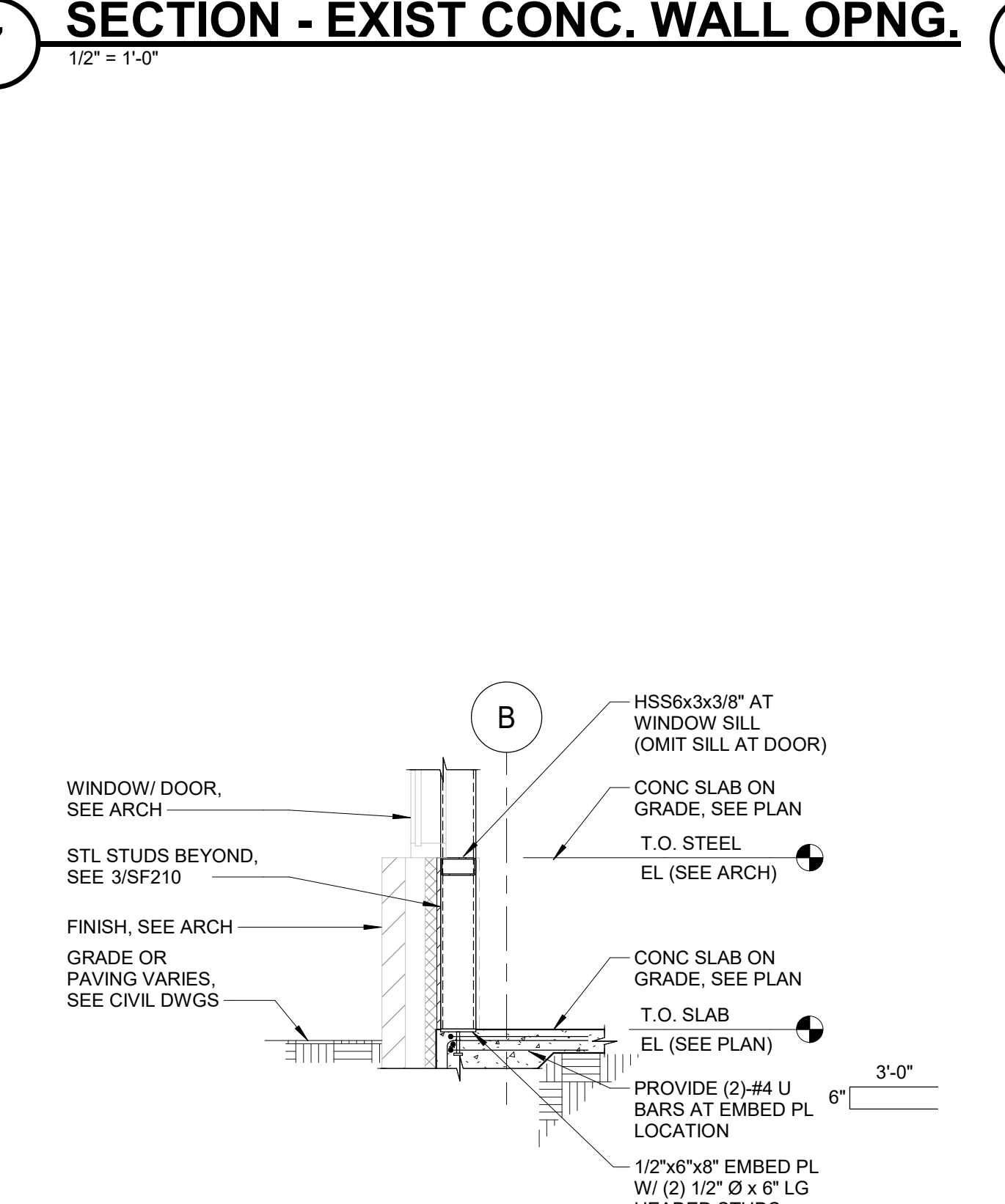
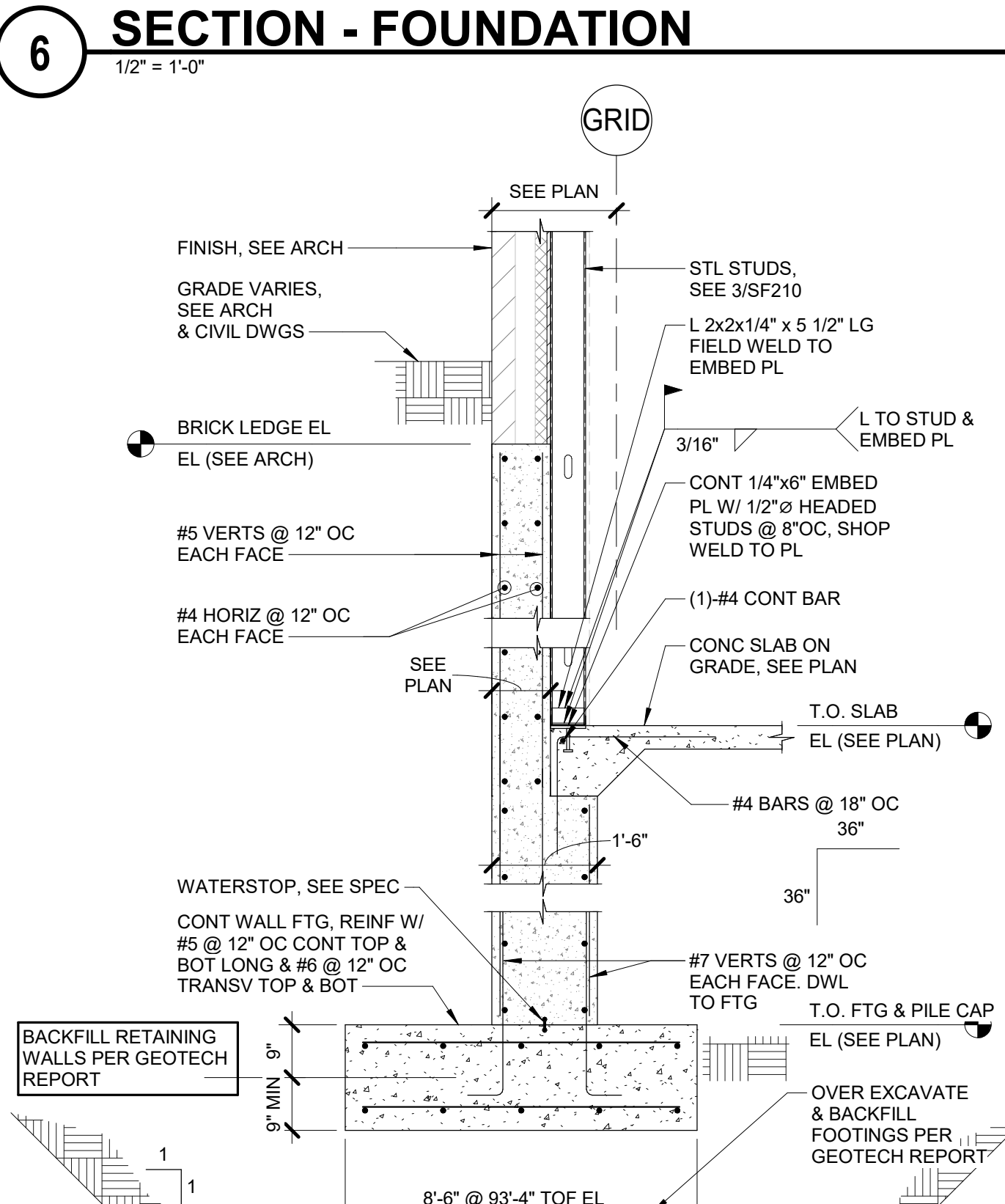
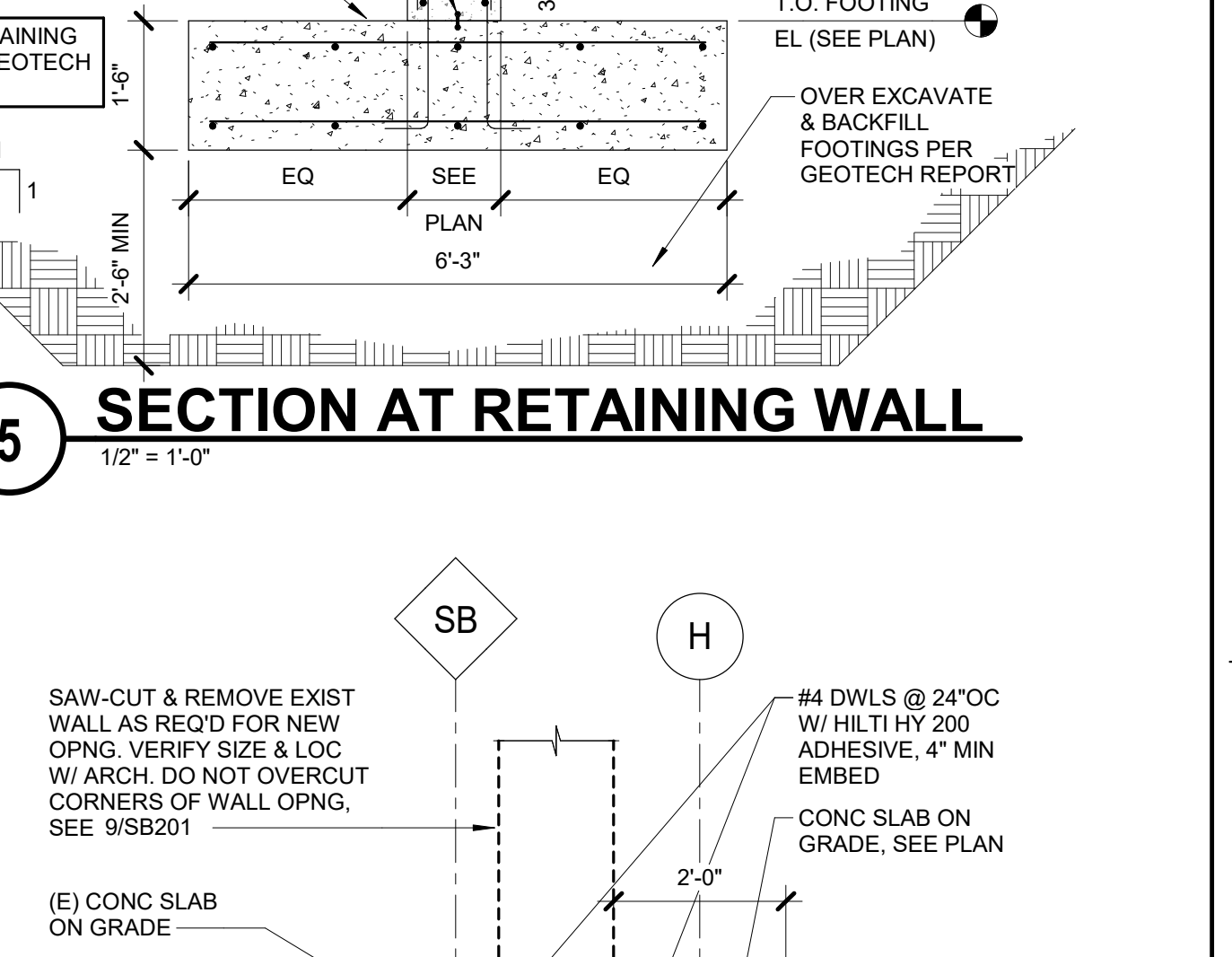
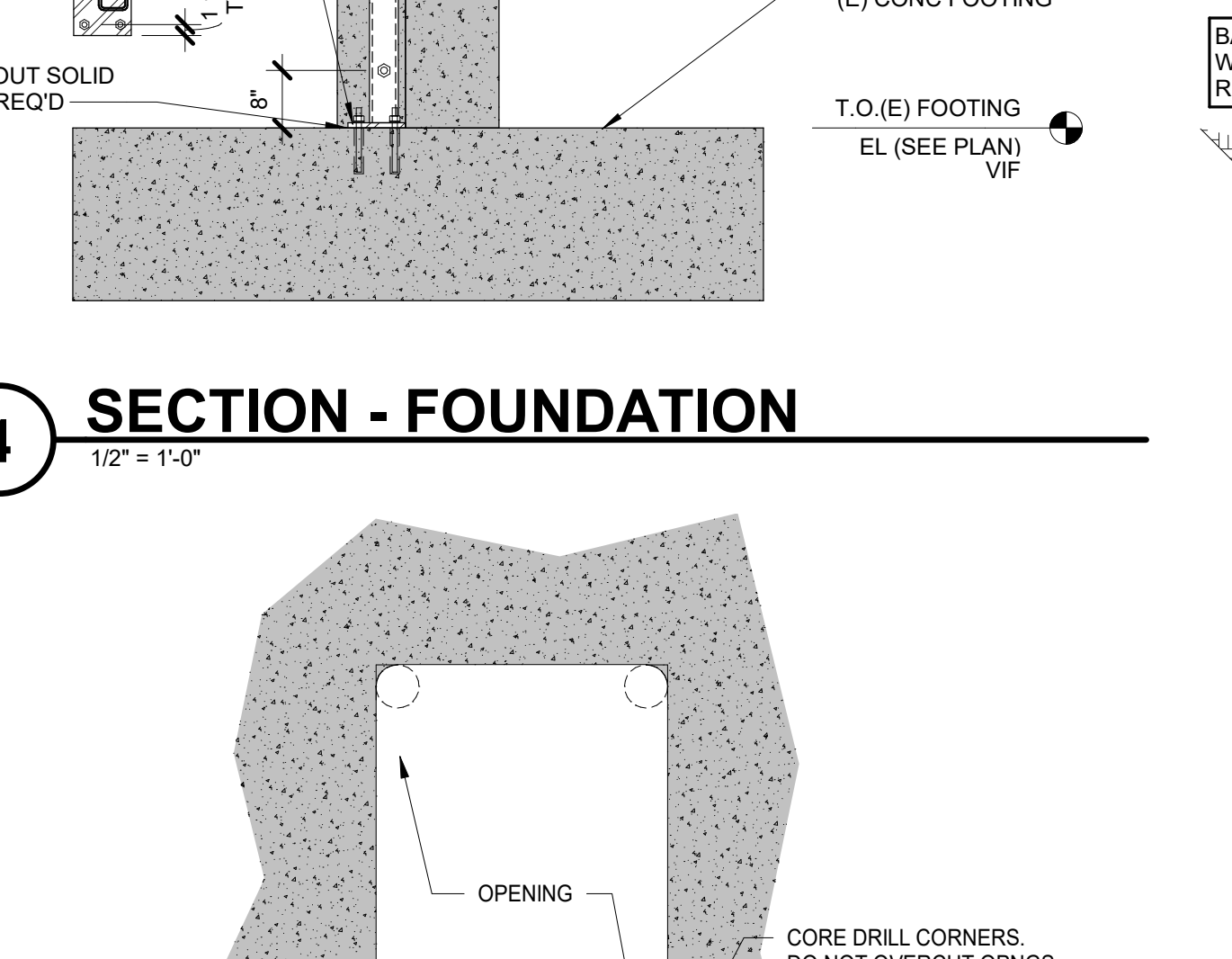
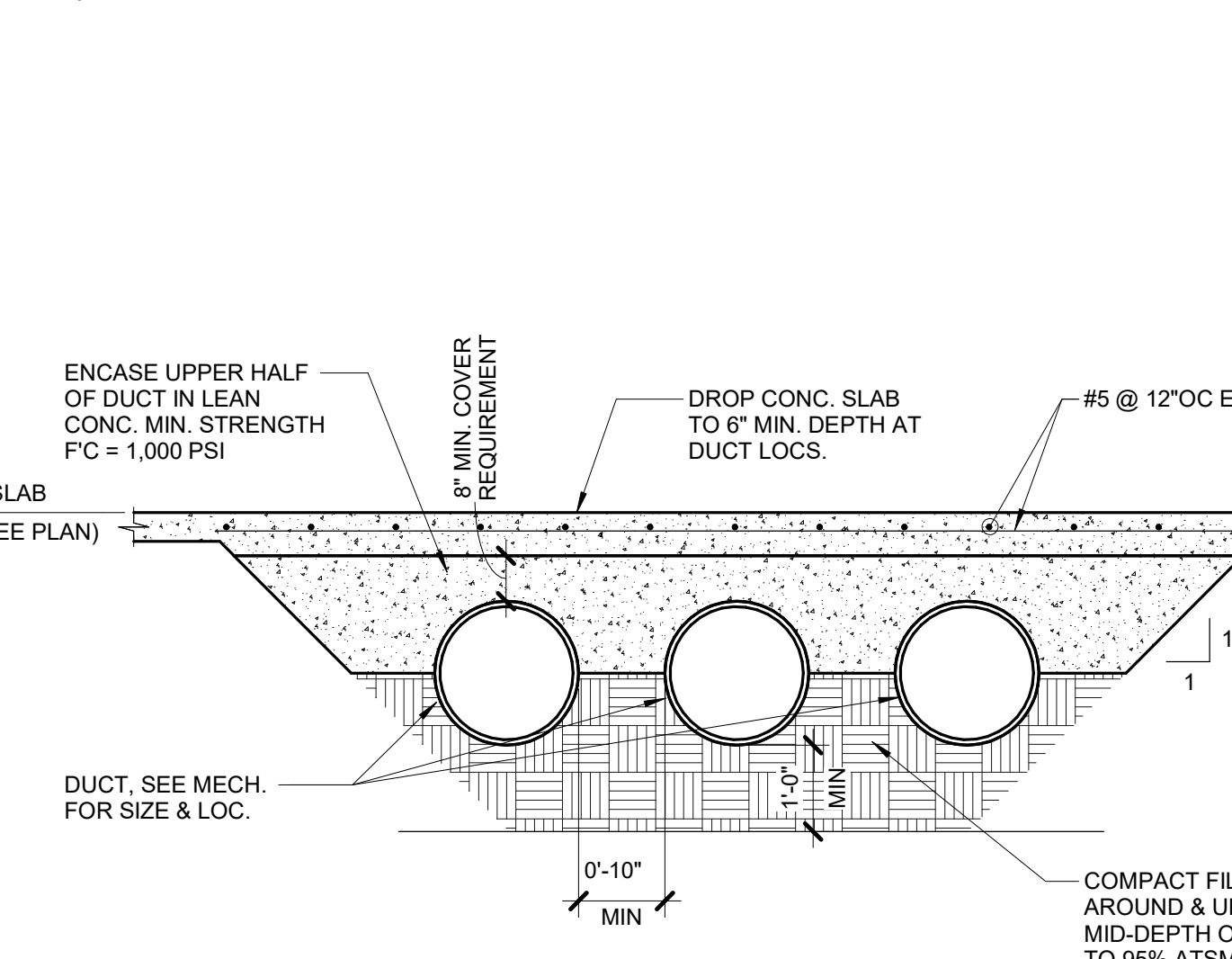
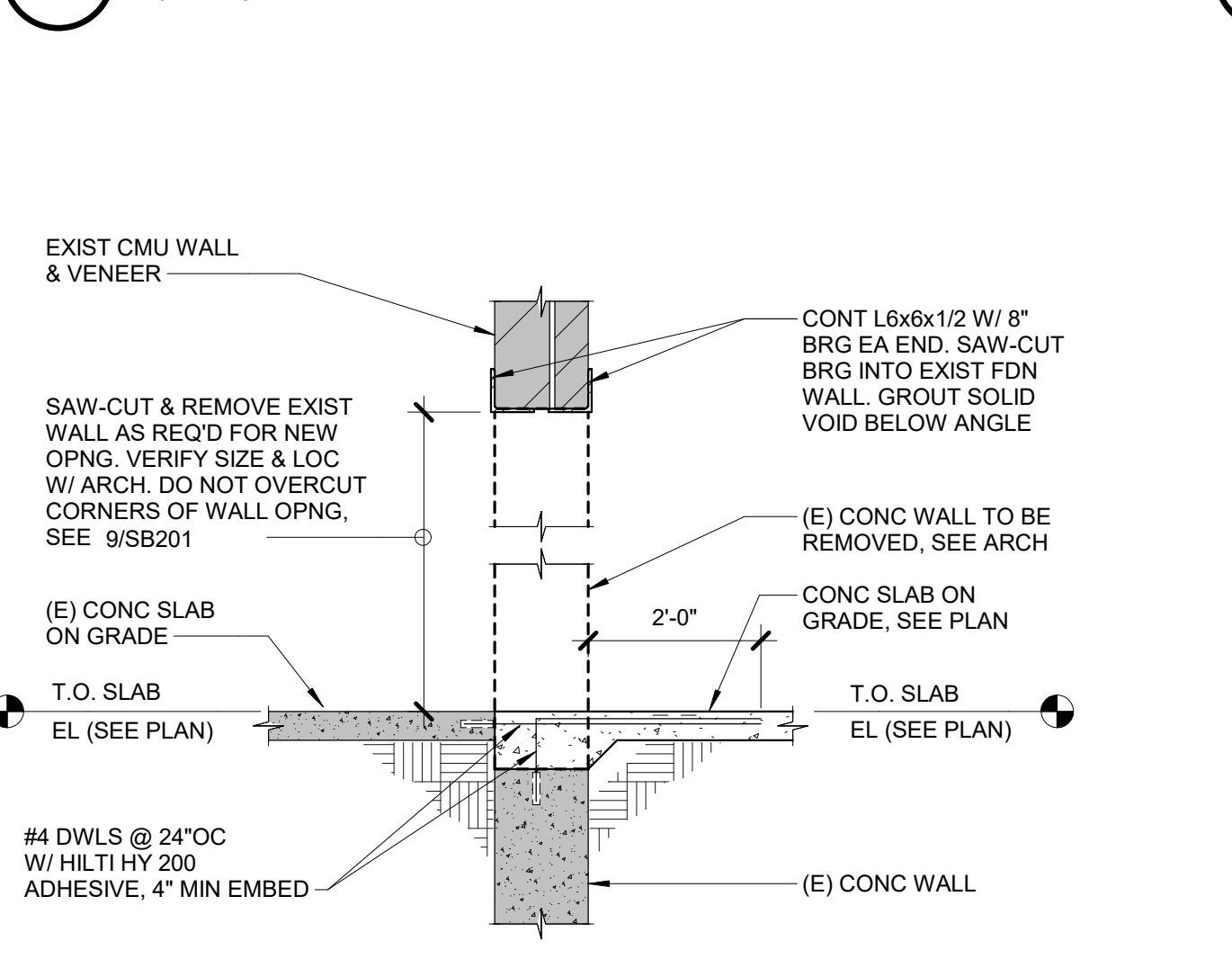
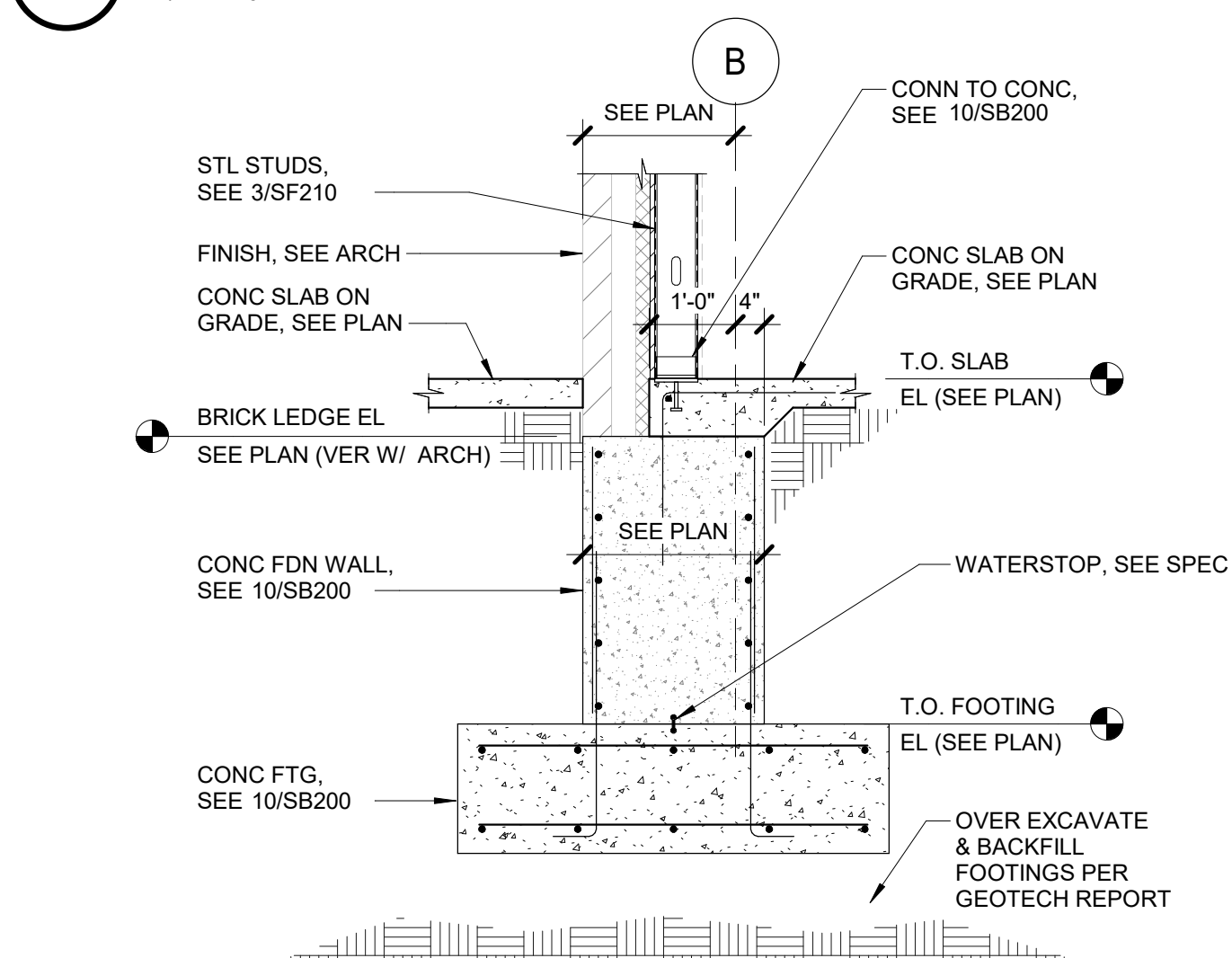
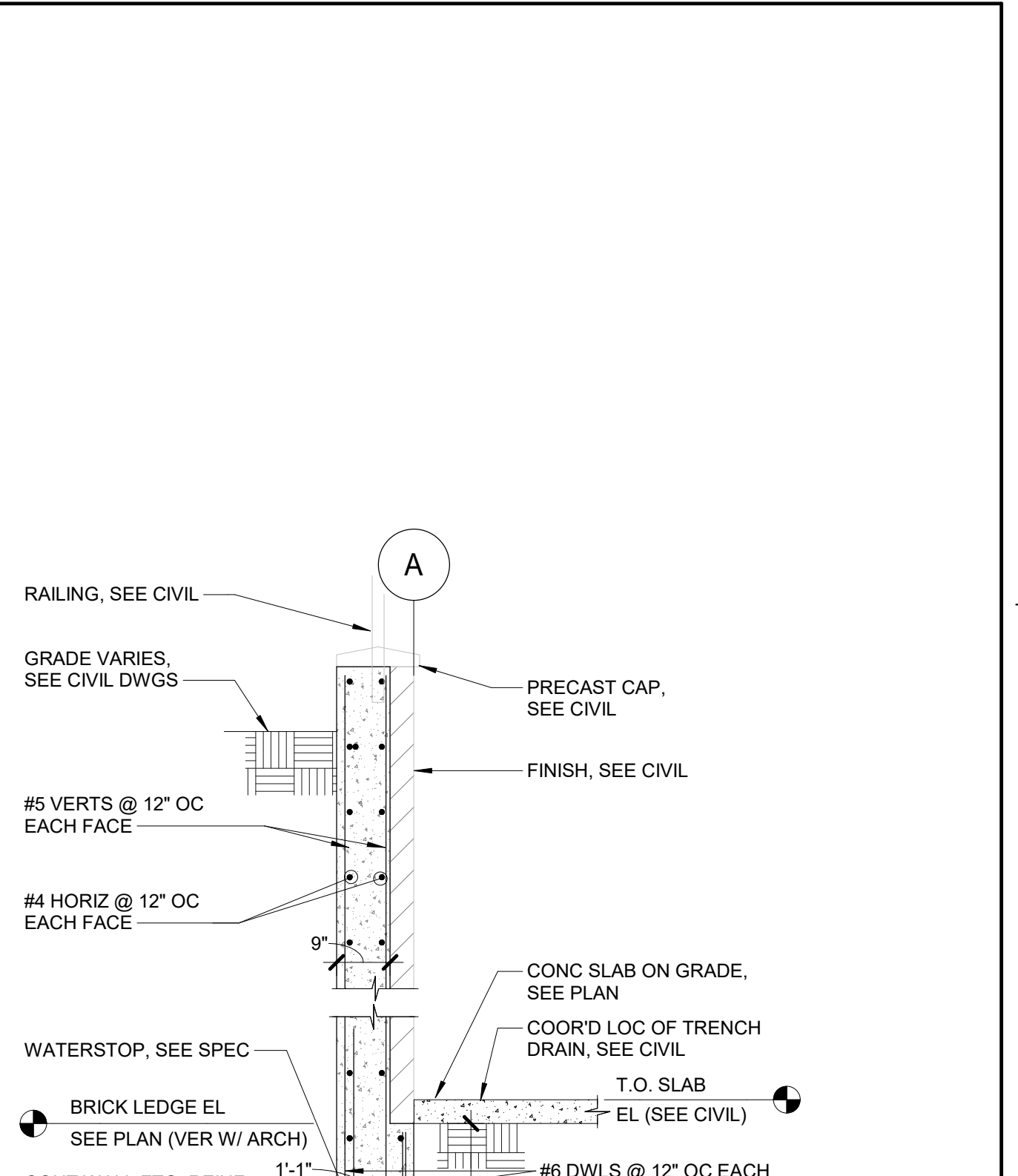
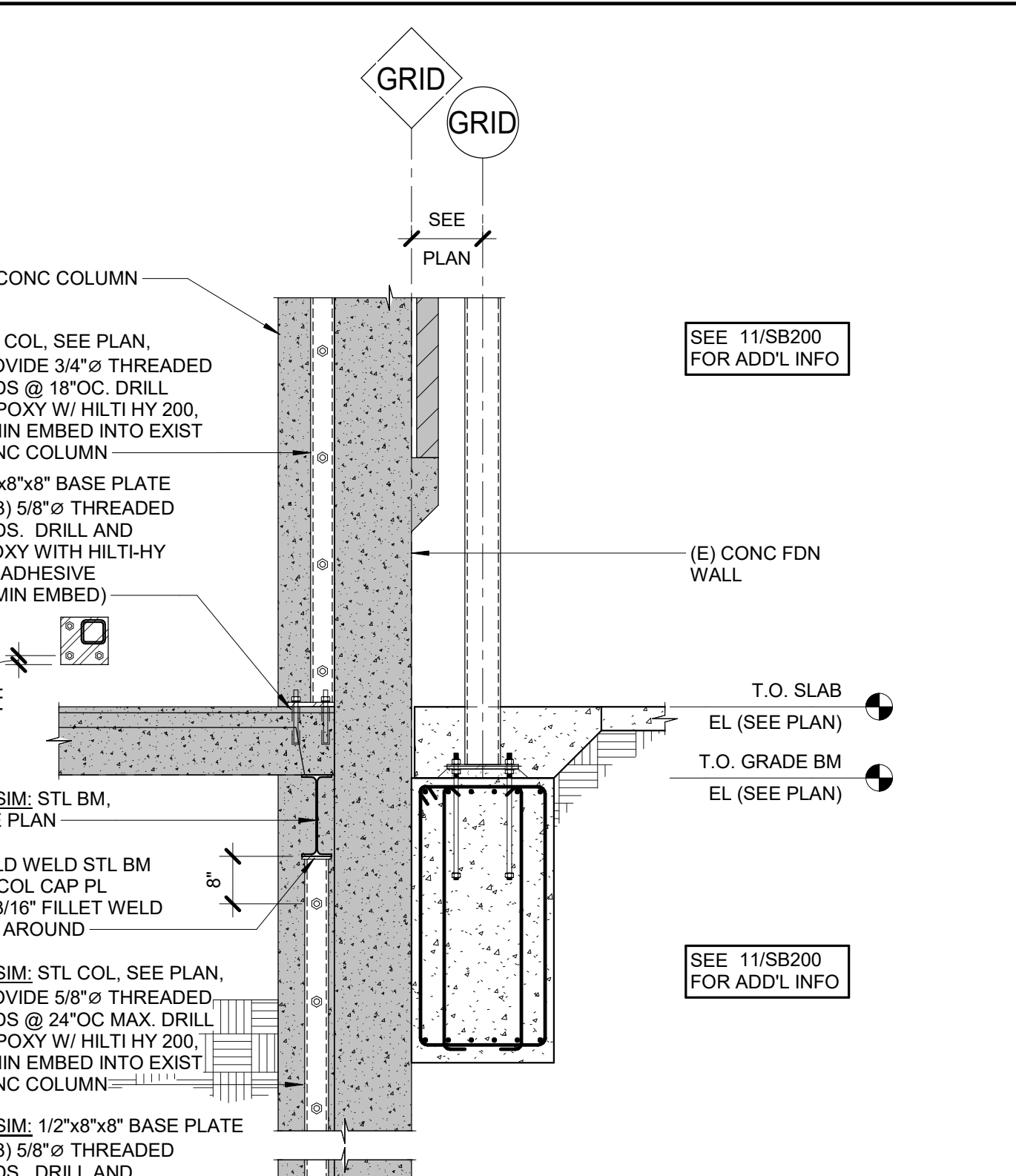
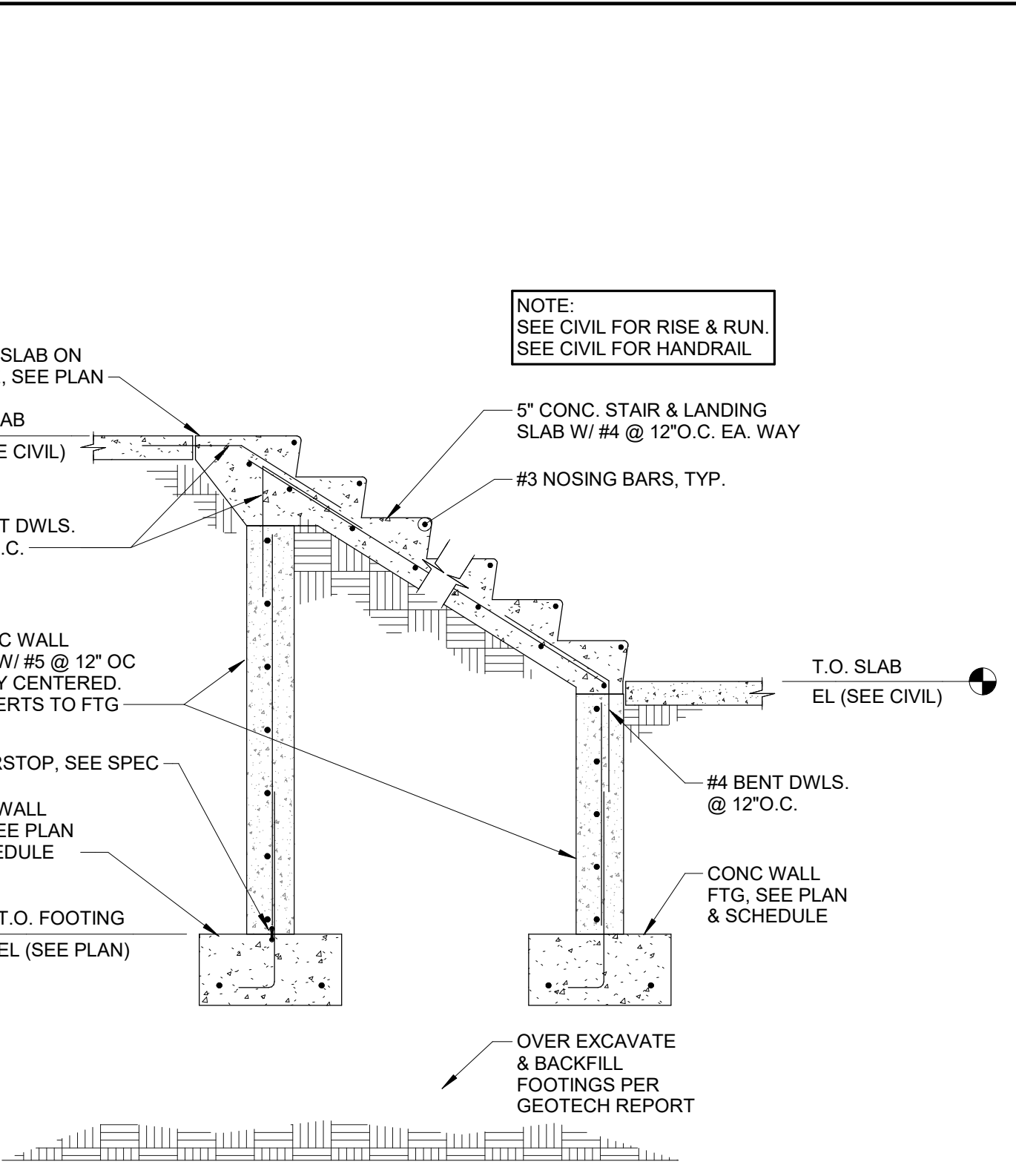
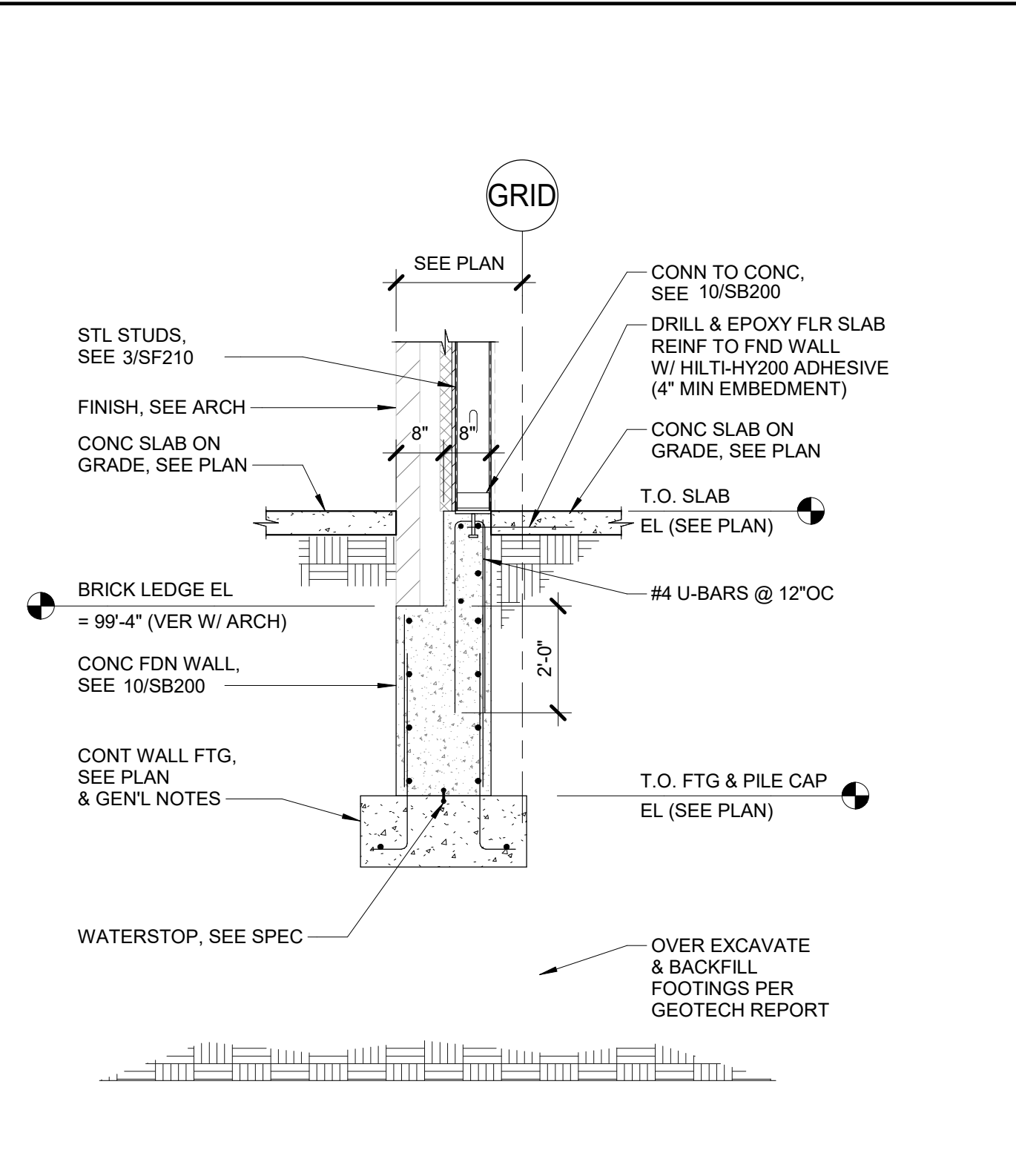
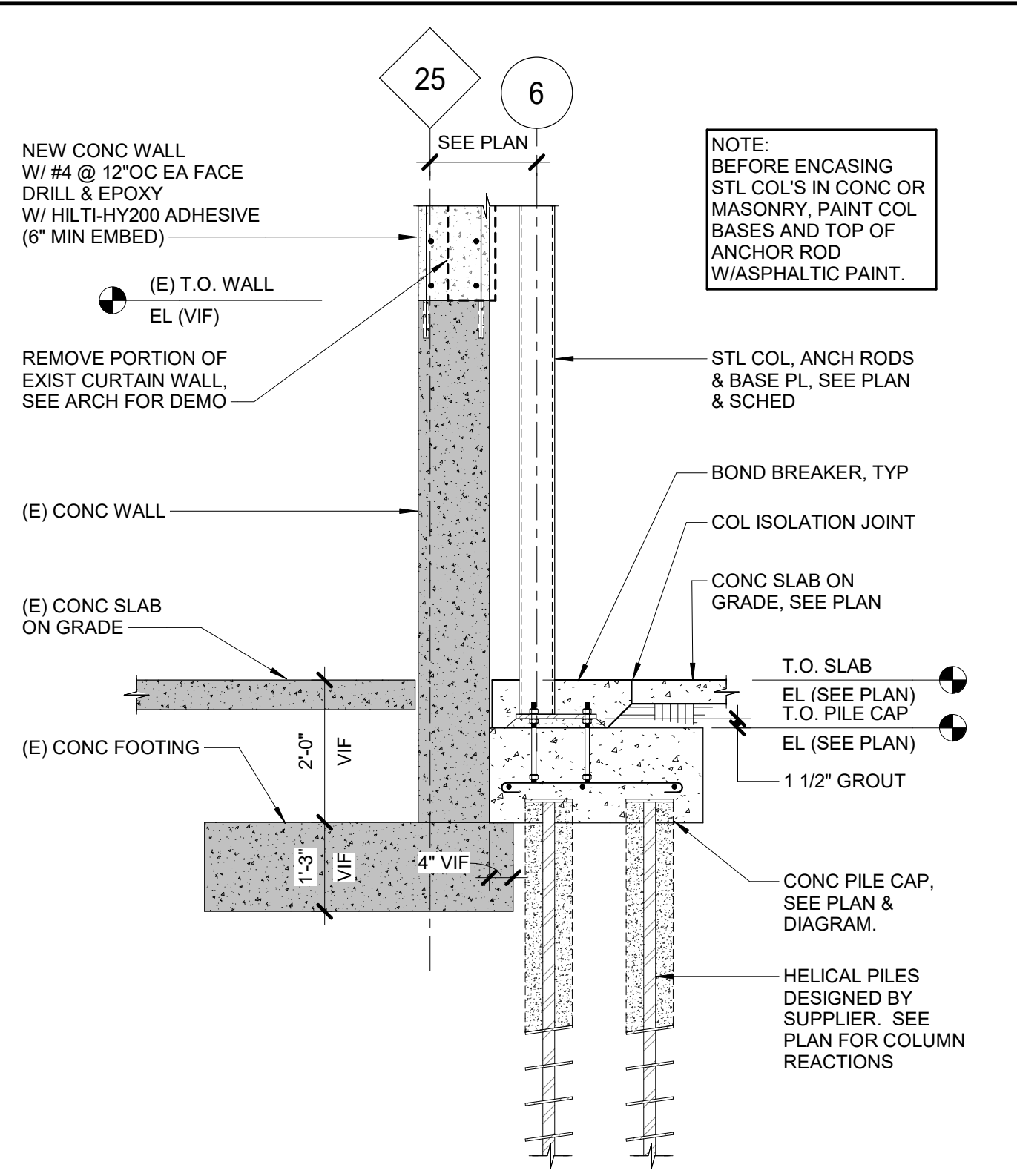
Checked
MPM/TGL

Drawn
MAQ

Project Number
438-460

Building Number
5

Drawing Number
SB200



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 VA FORM 08 - 6231

Revisions:	Date:

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Professional Engineer
1100 MICHAEL P. MEHRON
2-14-2025

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title
SECTIONS - FOUNDATION

Approved:

Phase
BID DOCUMENTS

FULLY SPRINKLERED

Project Title
CONSTRUCT NEW SPS

Location
Sioux Falls, SD.

Issue Date
02/14/2025

Checked
MPM/TGL

Drawn
MAQ

Project Number
438-460

Building Number
5

Drawing Number
SB201

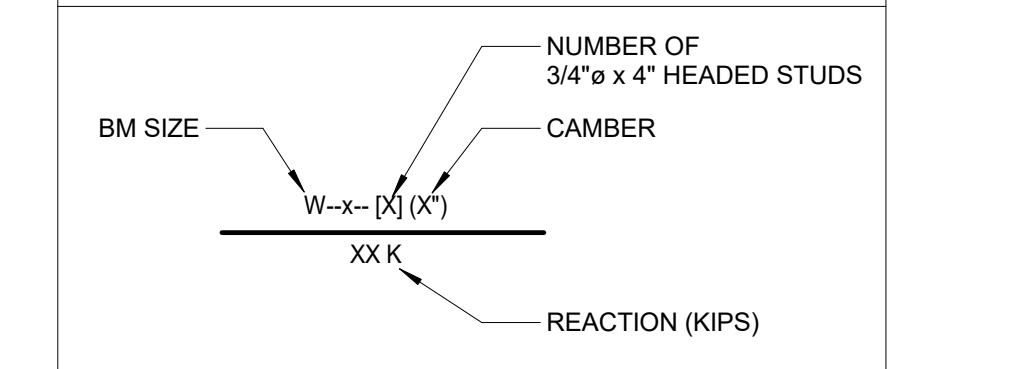
GENERAL PLAN NOTES: FLOOR

1. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
2. DO NOT SCALE DRAWINGS.
3. FOR SCHEDULES SEE SHEET SB101.
4. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF WALLS NOT DIMENSIONED ON PLAN.
5. FOR PERMISSIBLE CONSTRUCTION JOINT LOCATIONS IN COMPOSITE SLABS, SEE 2/SF210.
6. FOR OPENINGS IN COMPOSITE SLABS, SEE 1/SF210. FOR OPENINGS LARGER THAN 24", PROVIDE W10x12 FRAME AROUND OPN. VERIFY SIZE, LOCATION AND QTY WITH ARCH & MECH.
7. PROVIDE POUR STOPS AT TOPPING SLABS AS REQUIRED.
8. VERIFY ALL OPENINGS IN SLAB WITH ARCHITECT & MECHANICAL.
9. ALL REACTIONS SHOWN ON PLAN ARE UNFACTORED.
10. VERIFY EXISTING DIMENSIONS & ELEVATIONS.
11. CONTRACTOR TO LOCATE REINFORCING IN EXISTING WALLS & SLABS AS REQUIRED.

KEY PLAN NOTES: FLOOR / ROOF FRAMING

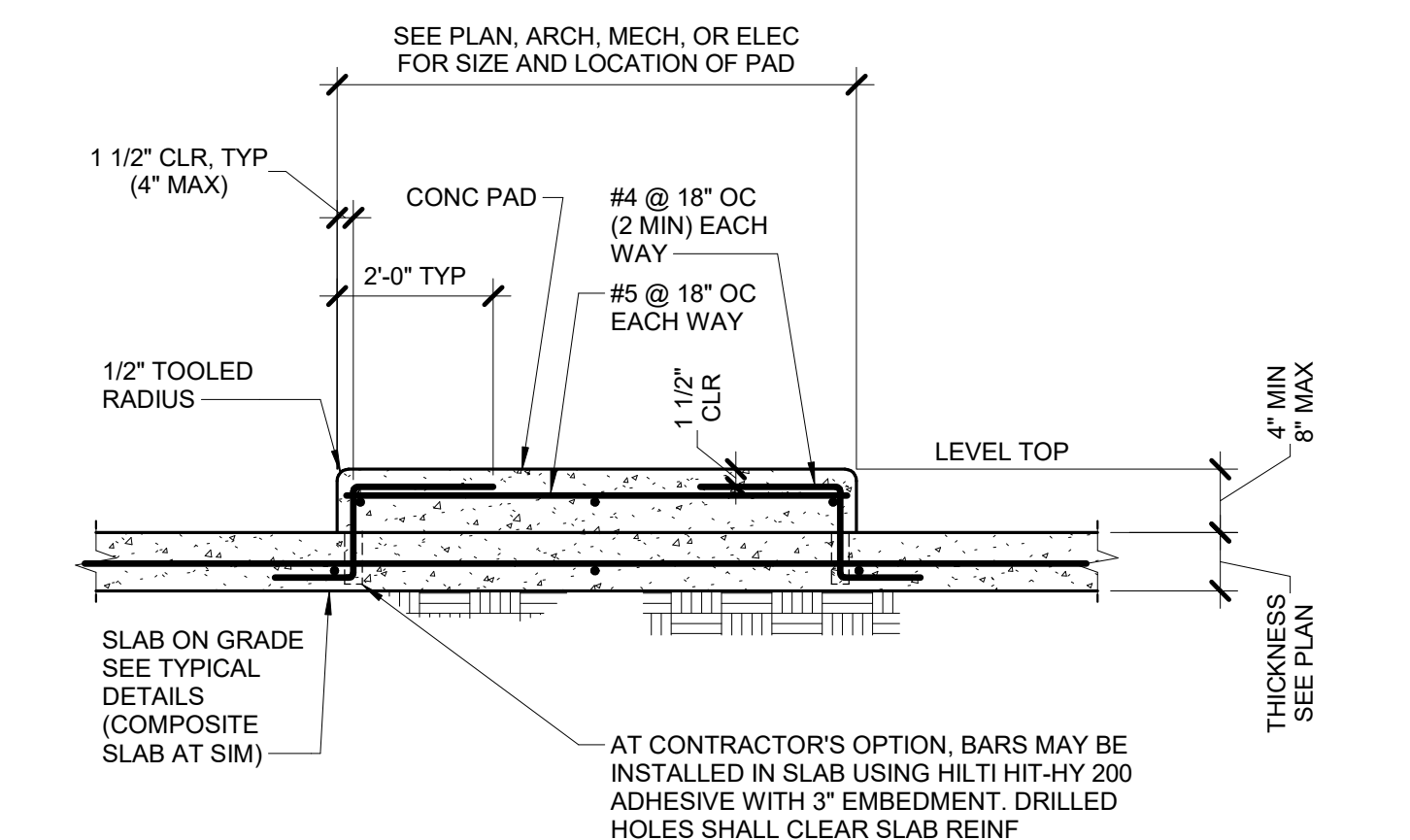
1. 5 1/2" TOTAL COMPOSITE CONCRETE FLOOR SLAB W/ #5 @ 16" OC EA WAY, OVER 2" 18 GA COMPOSITE STEEL FLOOR DECK OR APPROVED EQUAL (3 1/2" CONC SLAB + 2" DECK = 5 1/2" TOTAL SLAB THICKNESS) T.O. SLAB EL = +113'-0"
2. PROVIDE 4" CONCRETE HOUSEKEEPING PAD UNDER MECHANICAL UNITS. SEE MECHANICAL FOR QUANTITY, SIZE & LOCATION. REINFORCE PAD W/ #4 @ 16" OC EACH WAY. SEE 2/SF102 SIM.
3. PROVIDE ADDITIONAL SLAB REINFORCING AROUND PERIMETER. SEE PLAN & 3/SF210.
4. PROVIDE STL BM AT EDGE OF MECHANICAL UNITS. COORDINATE LOCATIONS WITH MECH DWGS.
5. RAMP CONC FLOOR TO DOOR OPENING. SEE ARCH.
6. PROVIDE STUB BEAM HSS8x5x1/2" SHOP WELDED TO FACE OF STL COL W/ 1/4" FILLET WELD ALL AROUND.
7. PROVIDE 5/16" BENT PLATE.

BM LEGEND



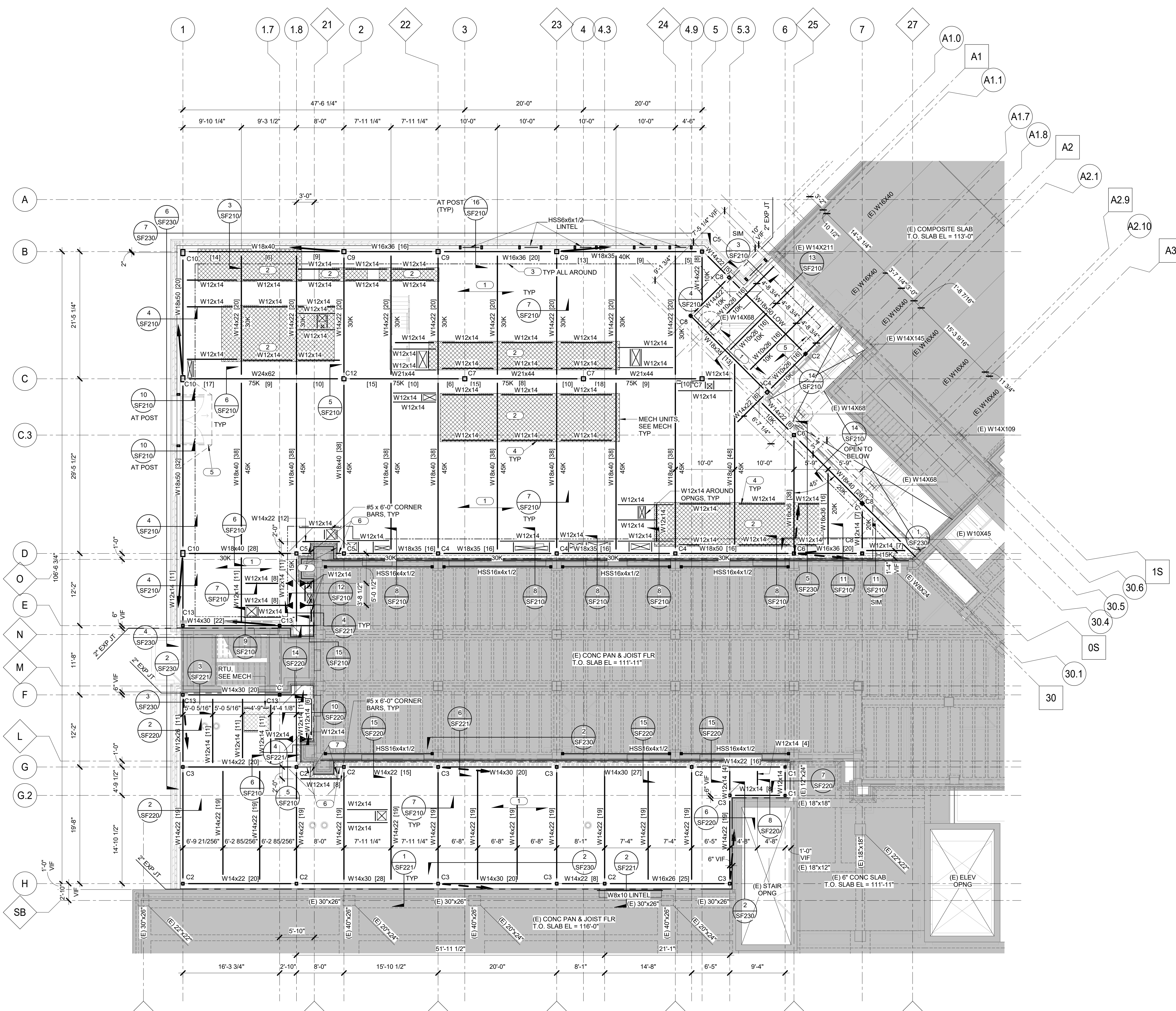
GENERAL PLAN NOTES: ROOF FRAMING

1. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
2. DO NOT SCALE DRAWINGS.
3. FOR SCHEDULES SEE SHEET SB101.
4. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF WALLS NOT DIMENSIONED ON PLAN.
5. FOR PERMISSIBLE CONSTRUCTION JOINT LOCATIONS IN COMPOSITE SLABS, SEE 2/SF210.
6. FOR OPENINGS IN COMPOSITE SLABS, SEE 1/SF210. FOR OPENINGS LARGER THAN 24", PROVIDE W12x14 FRAME AROUND OPN. VERIFY SIZE, LOCATION AND QTY WITH ARCH & MECH.
7. PROVIDE POUR STOPS AT TOPPING SLABS AS REQUIRED.
8. DESIGN ROOF BEAM CONNECTIONS FOR BLAST REACTIONS GIVEN ON SHEET SG000.
9. FOR STEEL BEAM TO STEEL COLUMN CONNECTION, SEE SECTION 3/SF220, 4/SF220 & 5/SF220.
10. VERIFY EXISTING DIMENSIONS & ELEVATIONS.
11. CONTRACTOR TO LOCATE REINFORCING IN EXISTING WALLS & SLABS AS REQUIRED.



- NOTE:
1. SEE MECHANICAL AND ELECTRICAL DWGS FOR THE FOLLOWING:
 - A. LOCATION AND DIMENSIONS OF PADS.
 - B. LOCATION AND SIZE OF ANCHOR BOLTS.
 - C. DETAILS OF SUPPORTS, ISOLATORS AND OTHERS.

2 TYPICAL CONCRETE EQUIPMENT PAD DETAIL
3/4" = 1'-0"



FIRST LEVEL & ROOF FRAMING PLAN
1/8" = 1'-0"

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Revisions:	Date:

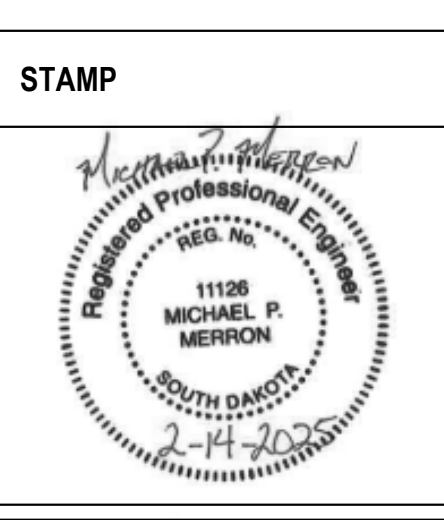
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PROJECT: 1900426104

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Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title
FIRST FLOOR & ROOF FRAMING PLAN

Approved:

Phase
BID DOCUMENTS

FULLY SPRINKLERED

Project Title
CONSTRUCT NEW SPS

Location
Sioux Falls, SD.

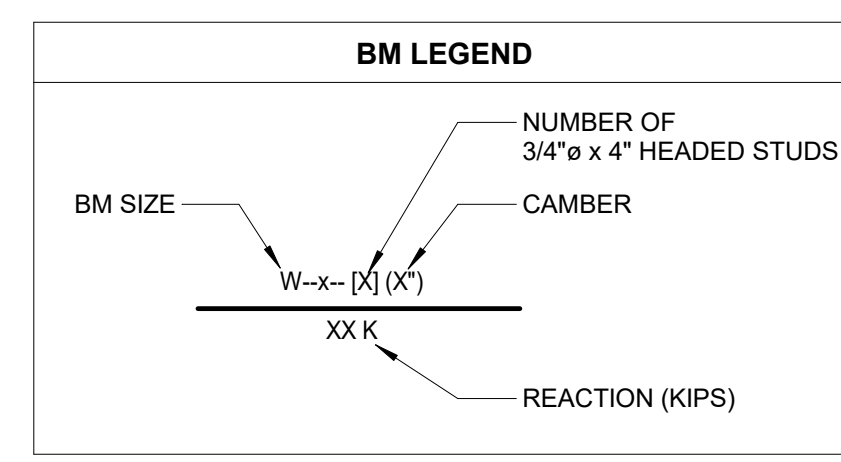
Issue Date: 02/14/2025
Checked: MPM/TGL
Drawn: MAQ

Project Number
438-460

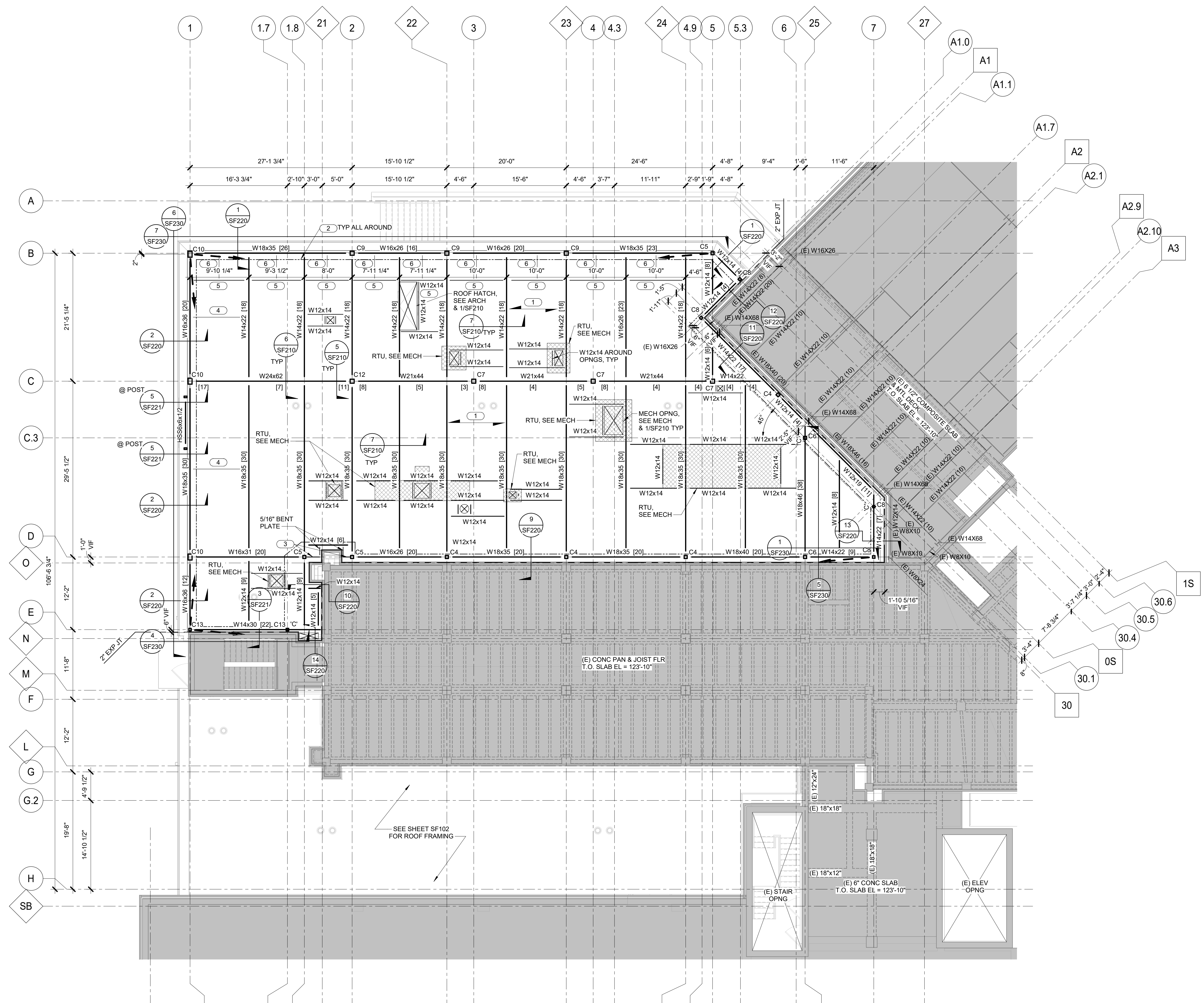
Building Number
5

Drawing Number
SF102

- GENERAL PLAN NOTES. ROOF FRAMING**
- VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
 - DO NOT SCALE DRAWINGS.
 - FOR SCHEDULES SEE SHEET SB101.
 - SEE ARCHITECTURAL DRAWINGS, FOR LOCATION OF WALLS NOT DIMENSIONED ON PLAN.
 - FOR PERMISSIBLE CONSTRUCTION JOINT LOCATIONS IN COMPOSITE SLABS, SEE 2'SF210
 - FOR OPENINGS IN COMPOSITE SLABS, SEE 3'SF220 FOR OPENINGS LARGER THAN 24". PROVIDE W12X14 FRAME AROUND OPG. VERIFY SIZE, LOCATION AND QTY WITH ARCH & MECH.
 - PROVIDE POUR STOPS AT TOPPING SLABS AS REQUIRED.
 - DESIGN ROOF BEAM CONNECTIONS FOR BLAST REACTIONS GIVEN ON SHEET SG000.
 - FOR STEEL BEAM TO STEEL COLUMN CONNECTION, SEE SECTION 3'SF220, 4'SF220 & 5'SF220
 - VERIFY EXISTING DIMENSIONS AND ELEVATIONS.
 - CONTRACTOR TO LOCATE REINFORCING IN EXISTING WALLS & SLABS AS REQUIRED.



- KEY PLAN NOTES. ROOF**
- 5 1/2" TOTAL COMPOSITE CONCRETE FLOOR SLAB W/ #5 @ 16" OC EA WAY OVER 2"-18 GA COMPOSITE STEEL FLOOR DECK OR APPROVED EQUAL (3 1/2" CONC SLAB + 2" DECK = 5 1/2" TOTAL SLAB THICKNESS). T.O. SLAB EL = 123'-10"
 - PROVIDE ADDITIONAL SLAB REINFORCING AROUND PERIMETER. SEE PLAN & 3'SF210
 - PROVIDE STUB BEAM HSS 9X5X1/8" SHOP WELDED TO FACE OF STL COL W/ 1/4" FILLET WELD ALL AROUND
 - L 3X3X5/16" KICKER AT BEAM MIDSPAN.
 - L 5X5X3/8" FIELD WELDED TO STEEL BEAMS.
 - L 3X3X5/16" KICKER CENTERED BETWEEN STEEL BEAMS.



TRUE NORTH
1 ROOF FRAMING PLAN
 1/8" = 1'-0"

Revisions:	Date:

CONSULTANT

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STAMP

Handwritten Signature
 1100 MICHAEL P. MERRON
 SOUTH DAKOTA
 2-14-20

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
 ROOF FRAMING PLAN

Approved: _____

Phase
 BID DOCUMENTS

FULLY SPRINKLERED

Project Title
 CONSTRUCT NEW SPS

Location
 Sioux Falls, SD.

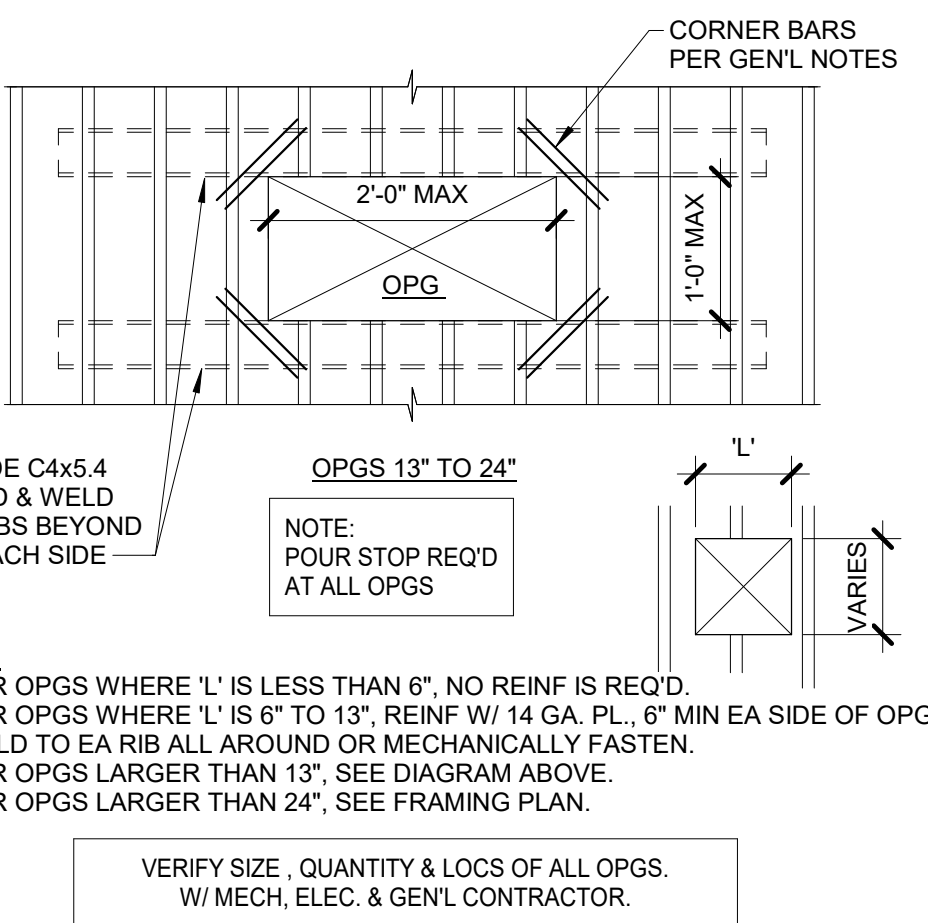
Issue Date: 02/14/2025
 Checked: MPM/TGL
 Drawn: MAQ

Project Number
 438-460

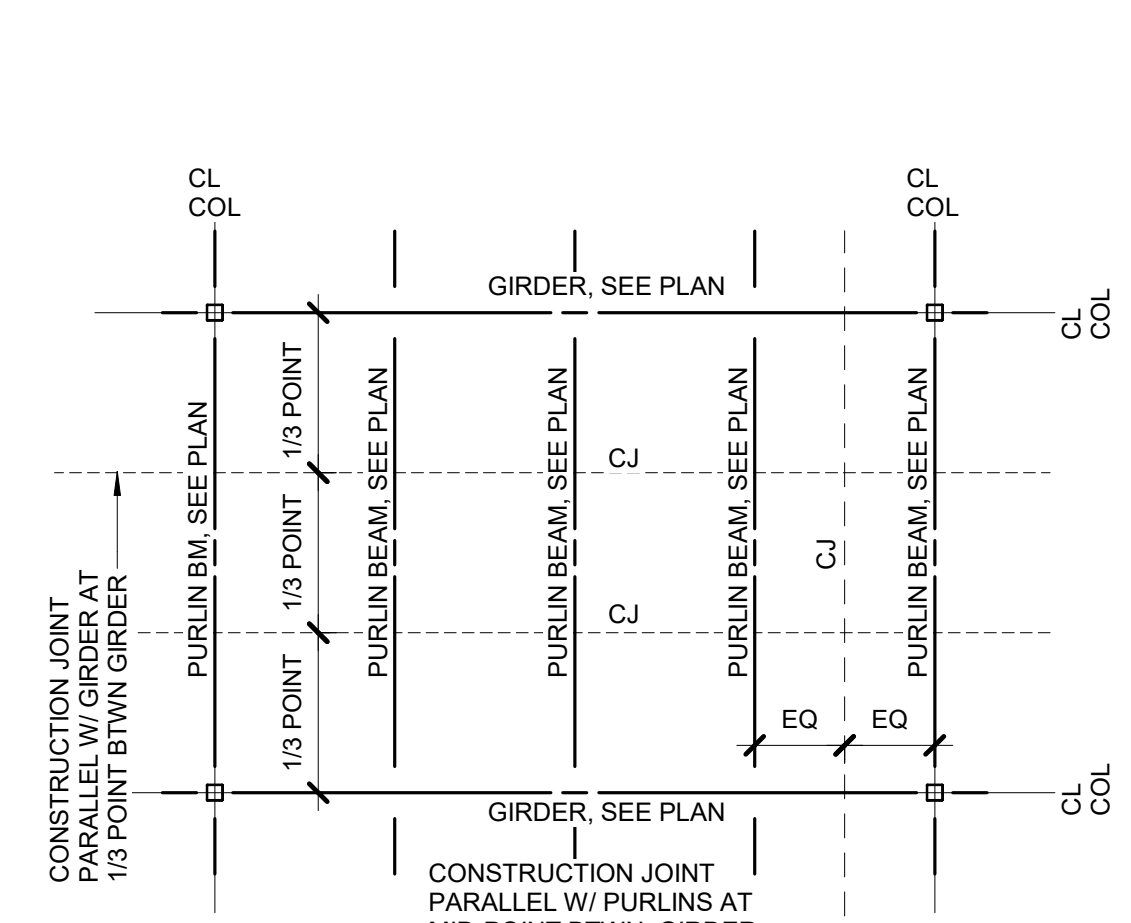
Building Number
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Drawing Number
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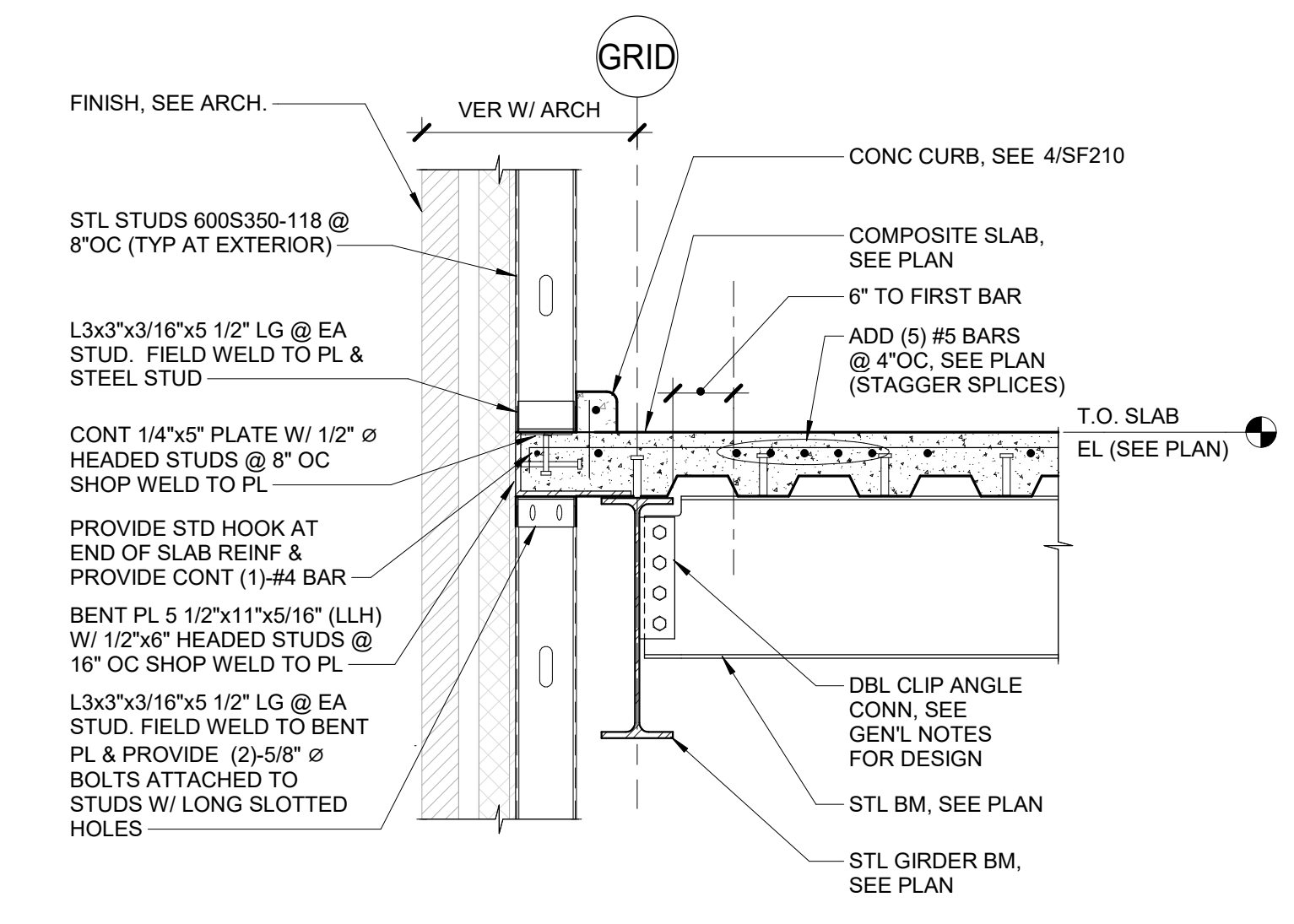
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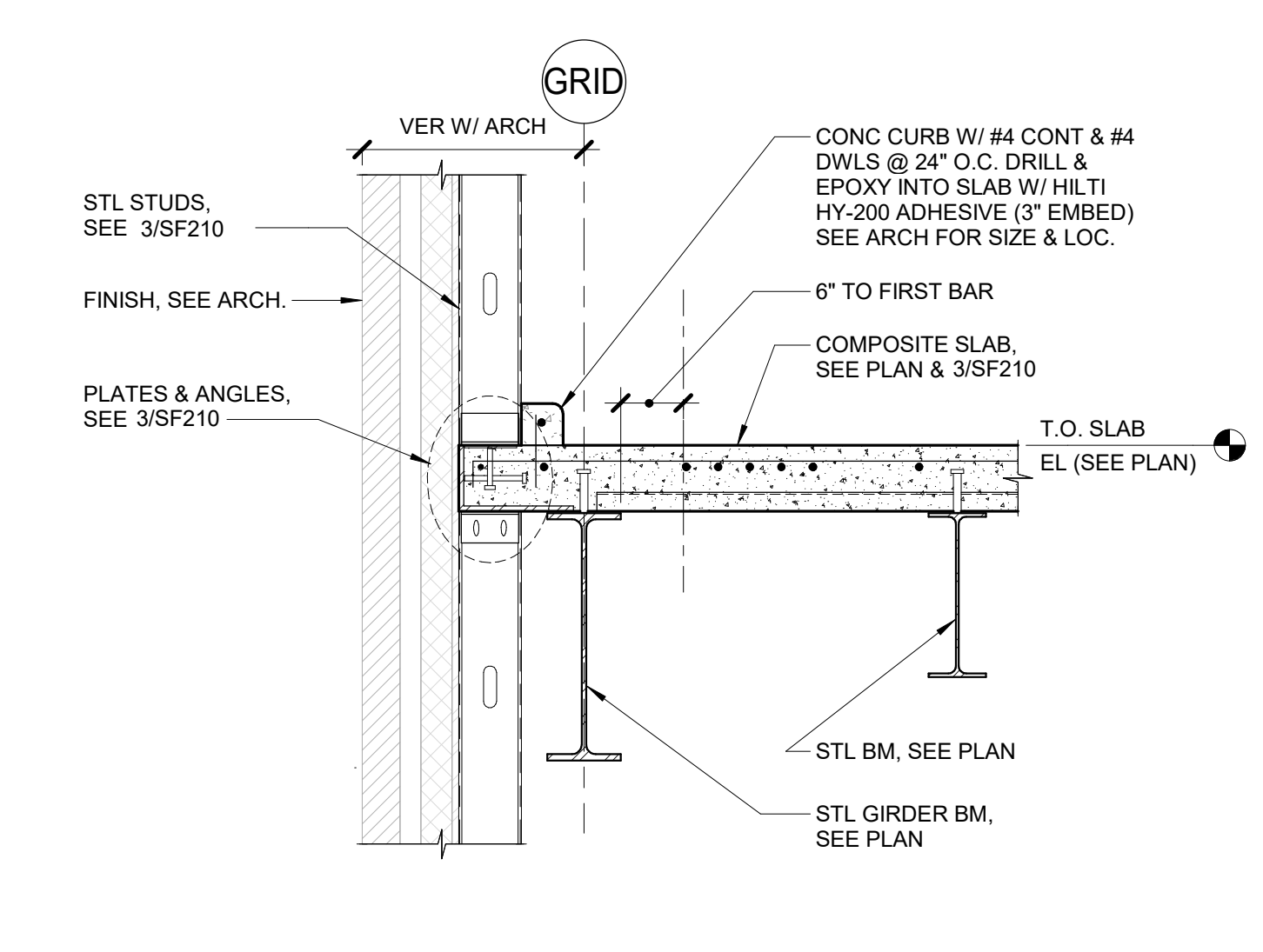
1 OPNG PERPENDICULAR TO FLOOR DECK
3/4" = 1'-0"



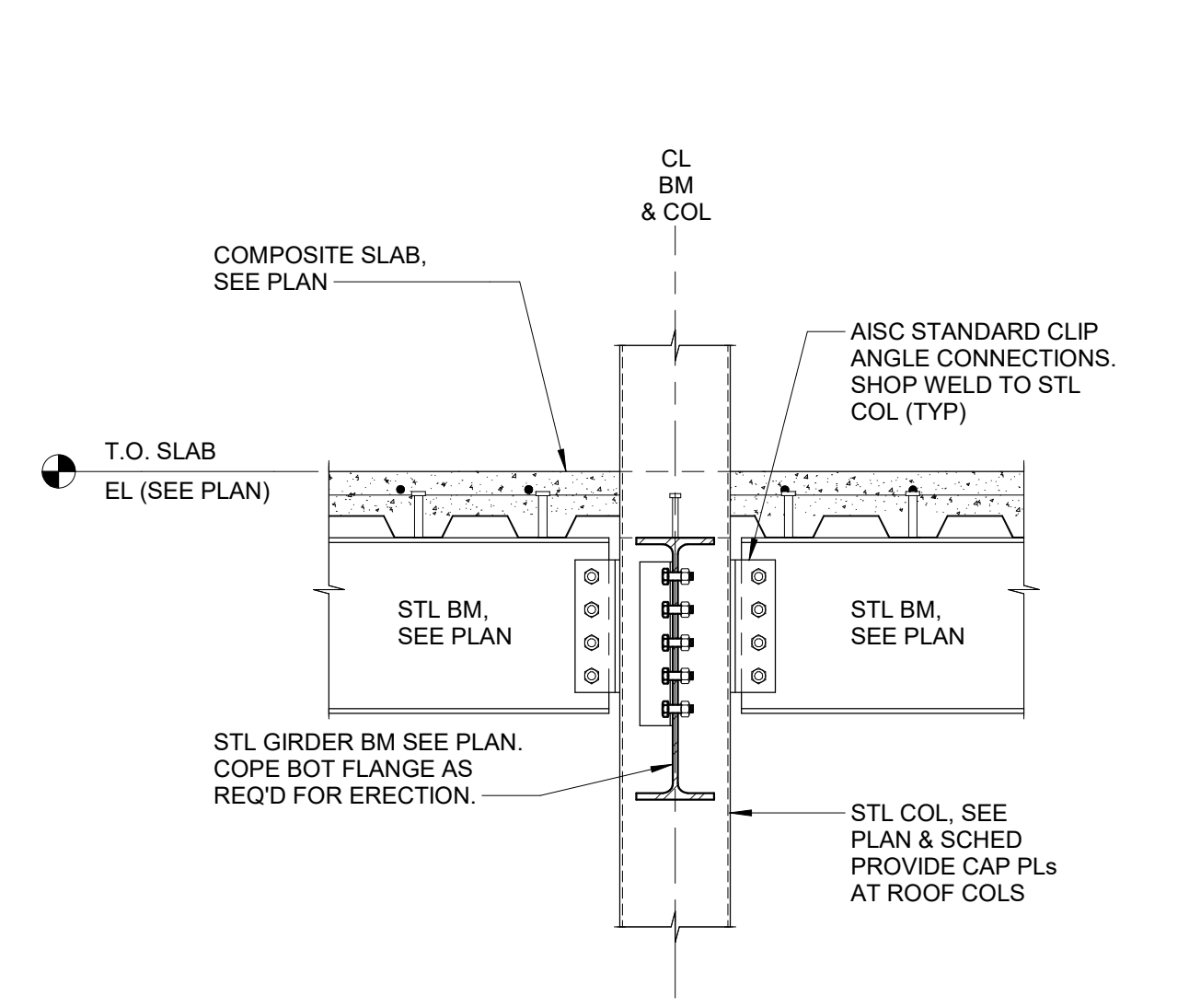
2 PERMISSIBLE CONSTRUCTION JOINT LOC
1/8" = 1'-0"



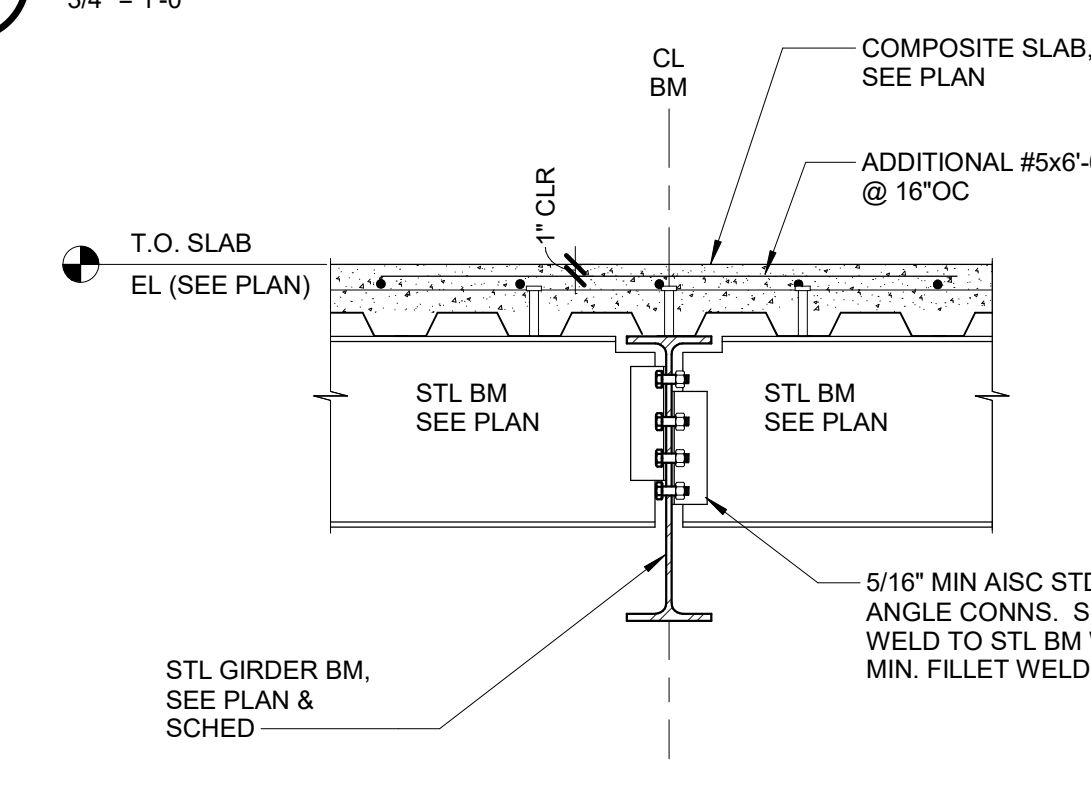
3 TYPICAL SECTION AT EXTERIOR
3/4" = 1'-0"



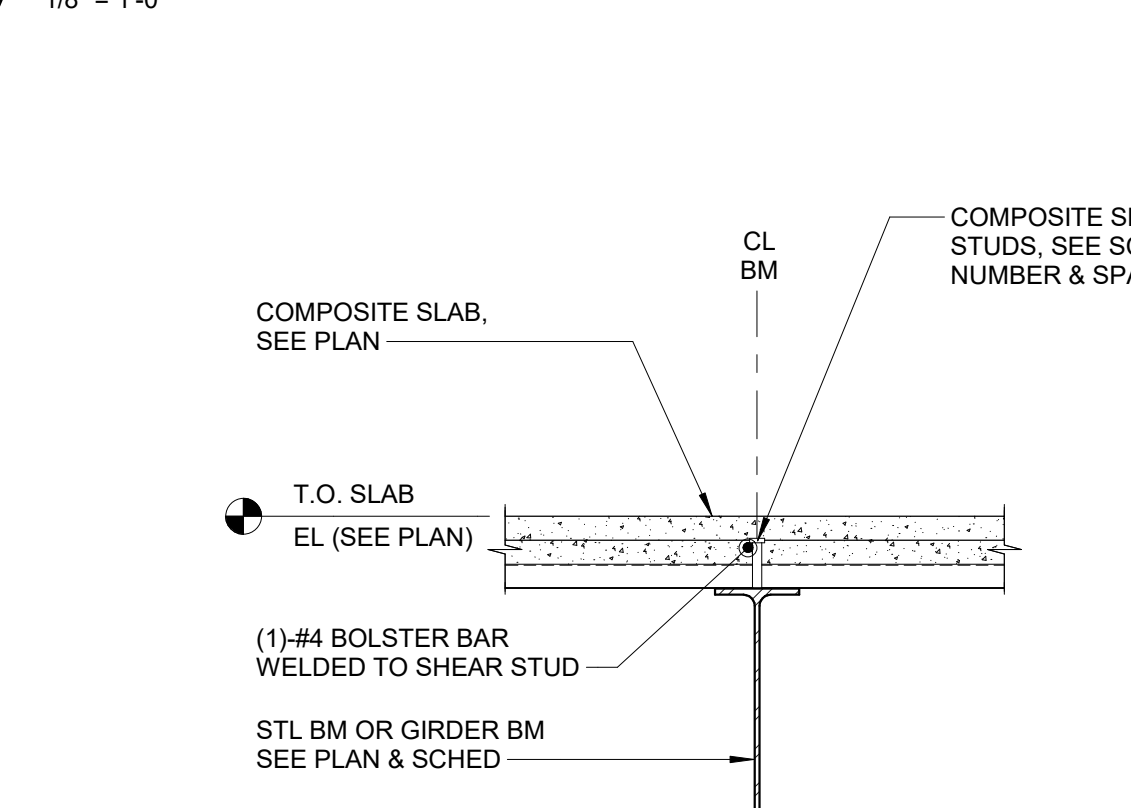
4 TYPICAL SECTION AT EXTERIOR
3/4" = 1'-0"



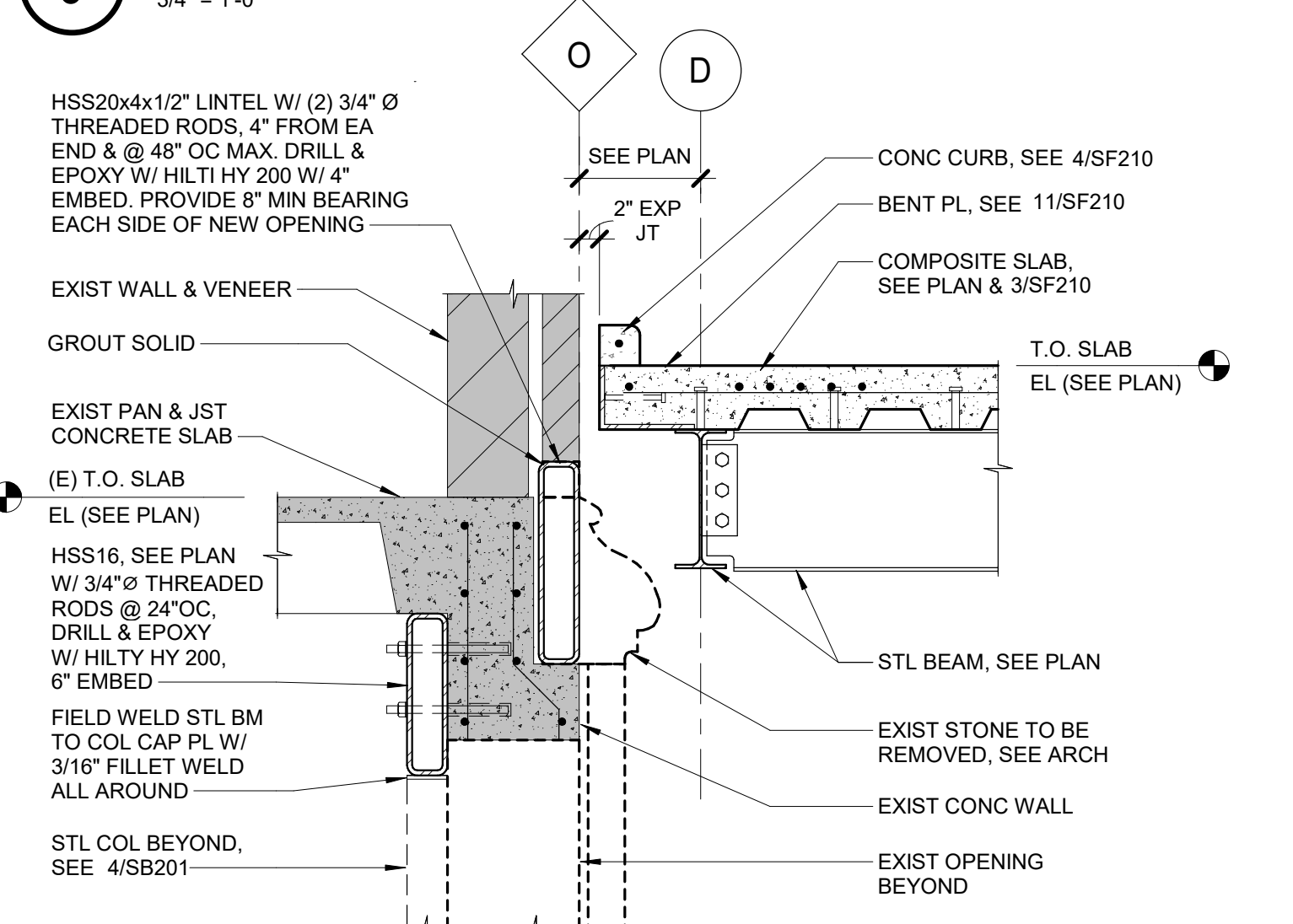
5 TYPICAL SECTION AT COLUMNS
3/4" = 1'-0"



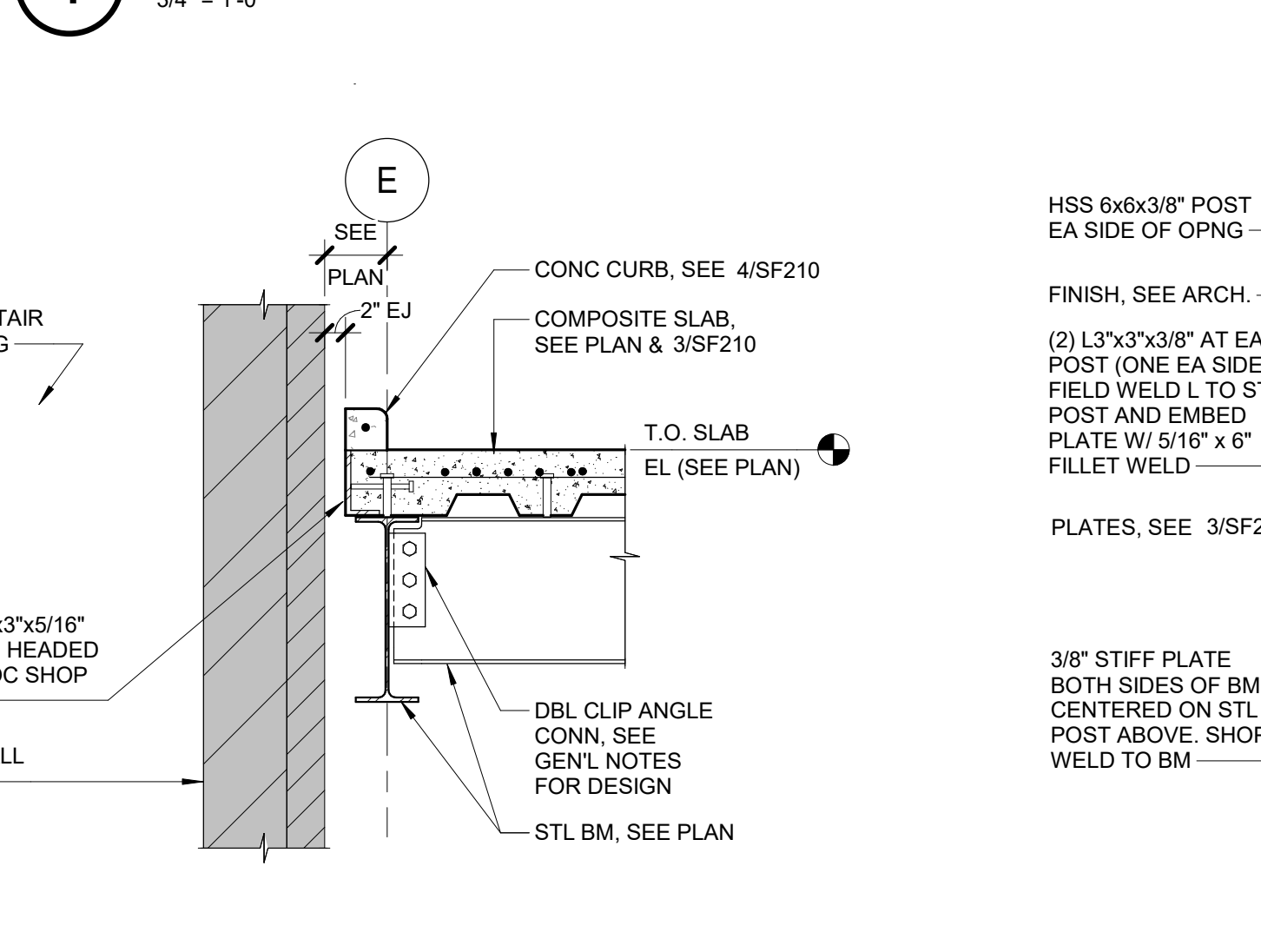
6 SECTION AT GIRDER & COMPOSITE SLAB
3/4" = 1'-0"



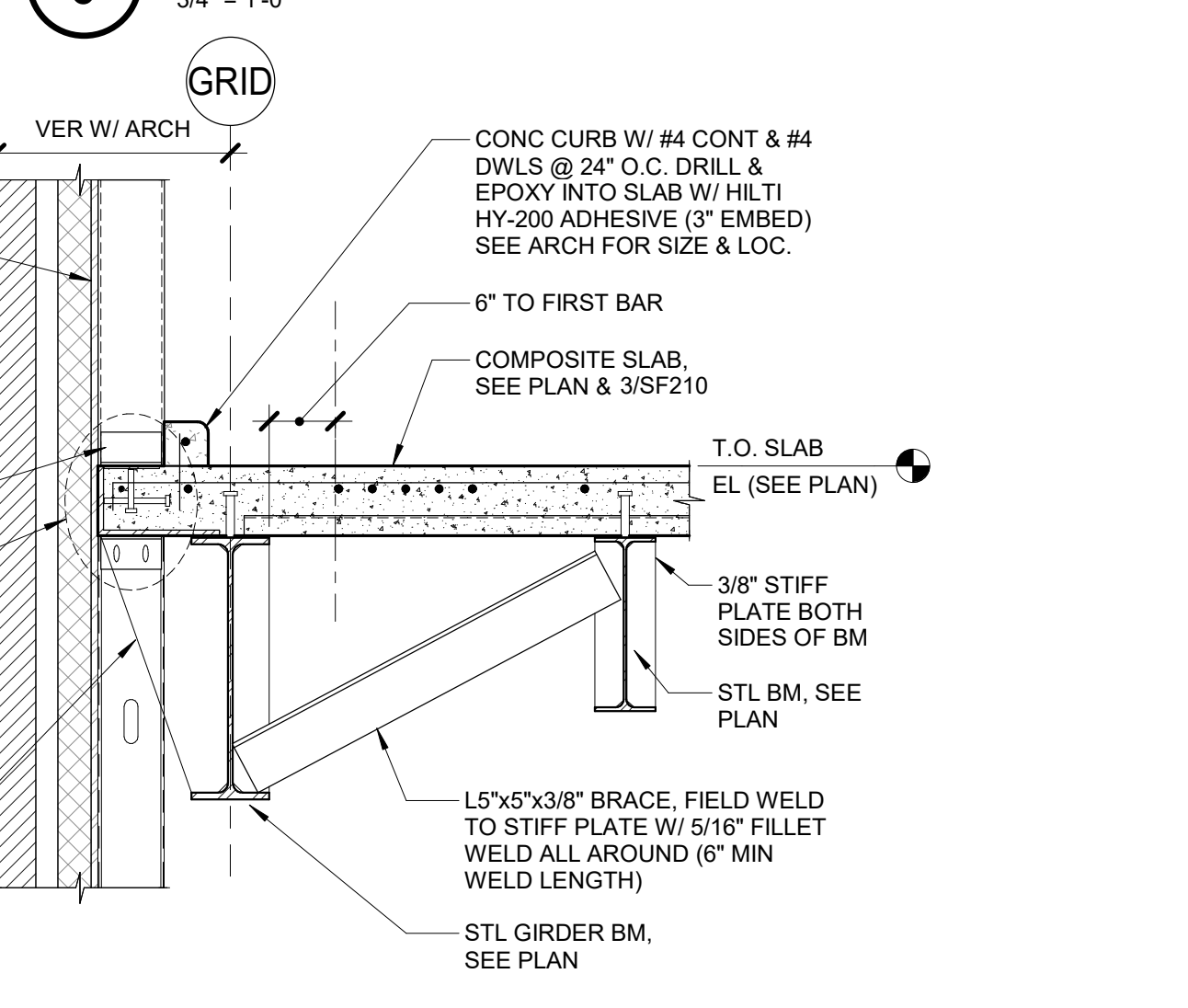
7 SECTION - TYP. FLOOR FRAMING
3/4" = 1'-0"



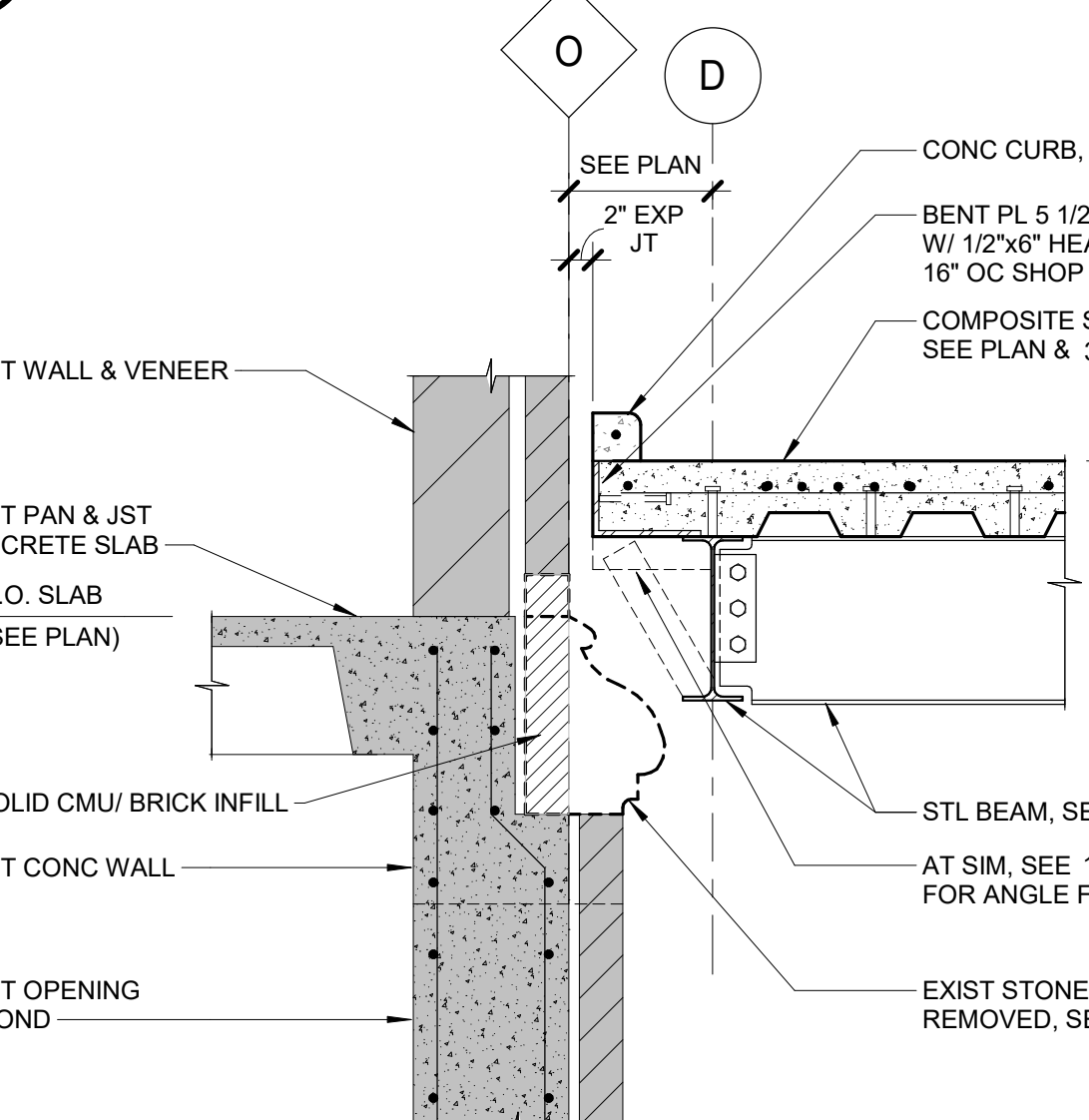
8 SECTION - FLOOR FRAMING
3/4" = 1'-0"



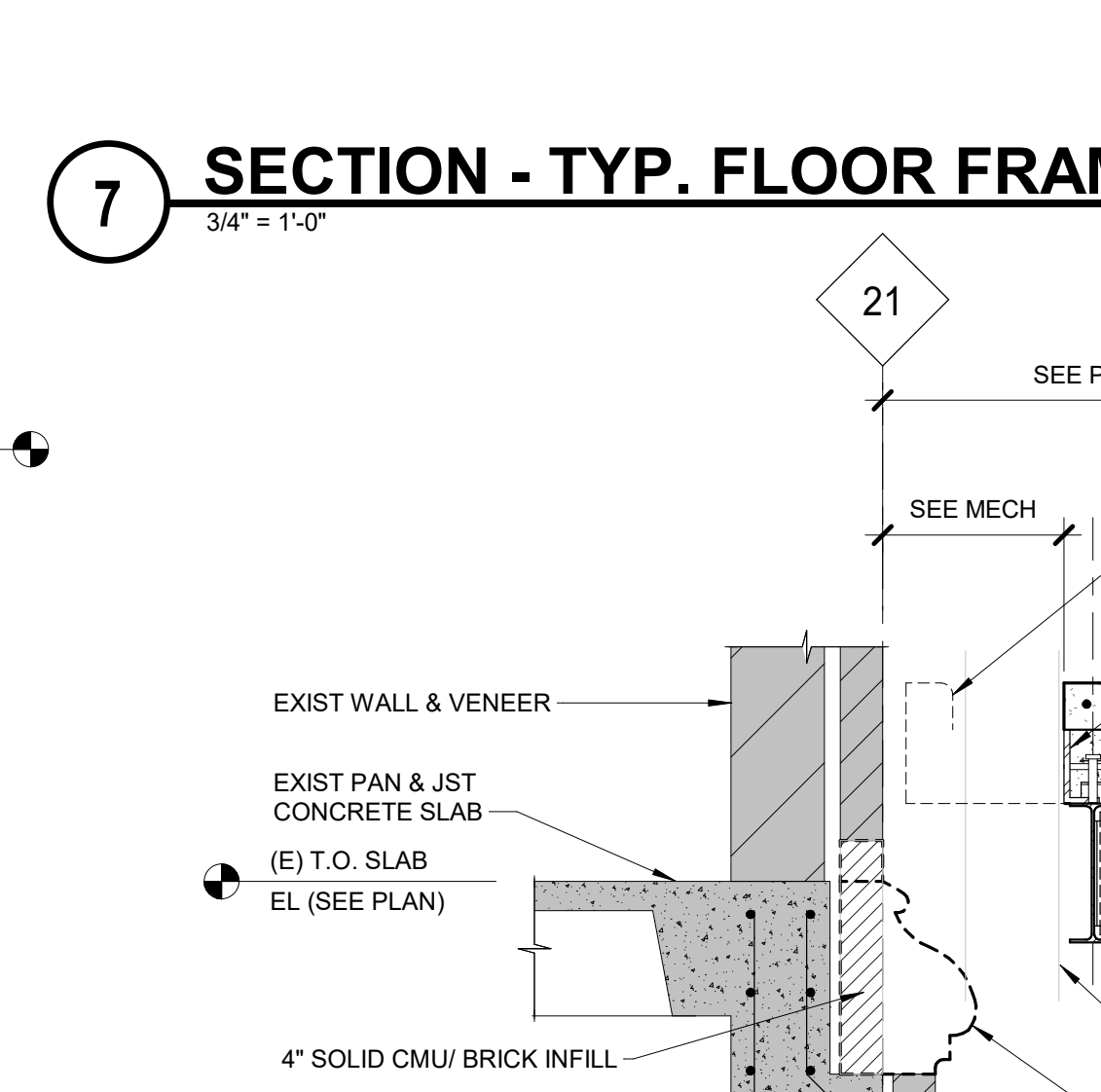
9 SECTION - FLOOR FRAMING
3/4" = 1'-0"



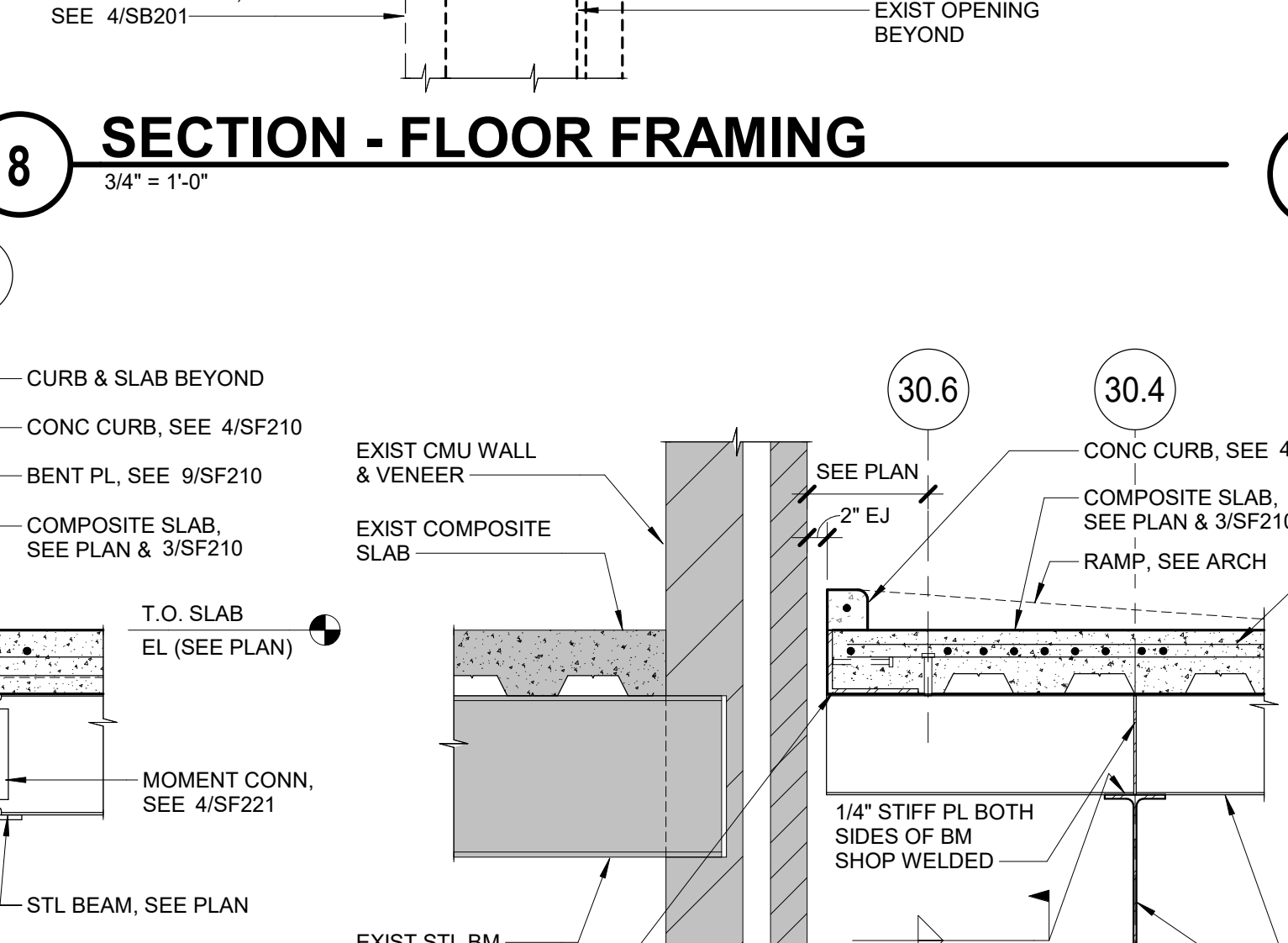
10 SECTION - FLOOR FRAMING
3/4" = 1'-0"



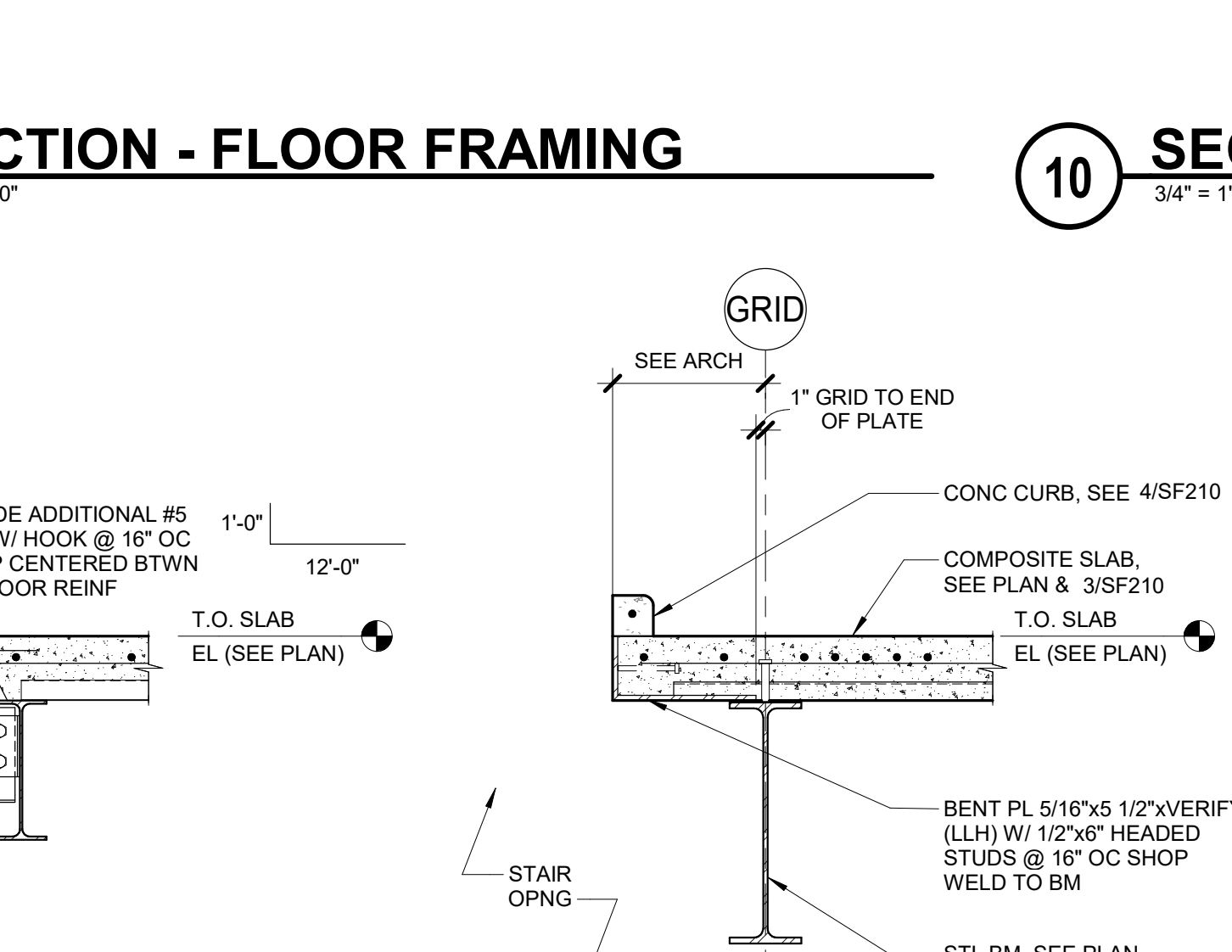
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NO SCALE



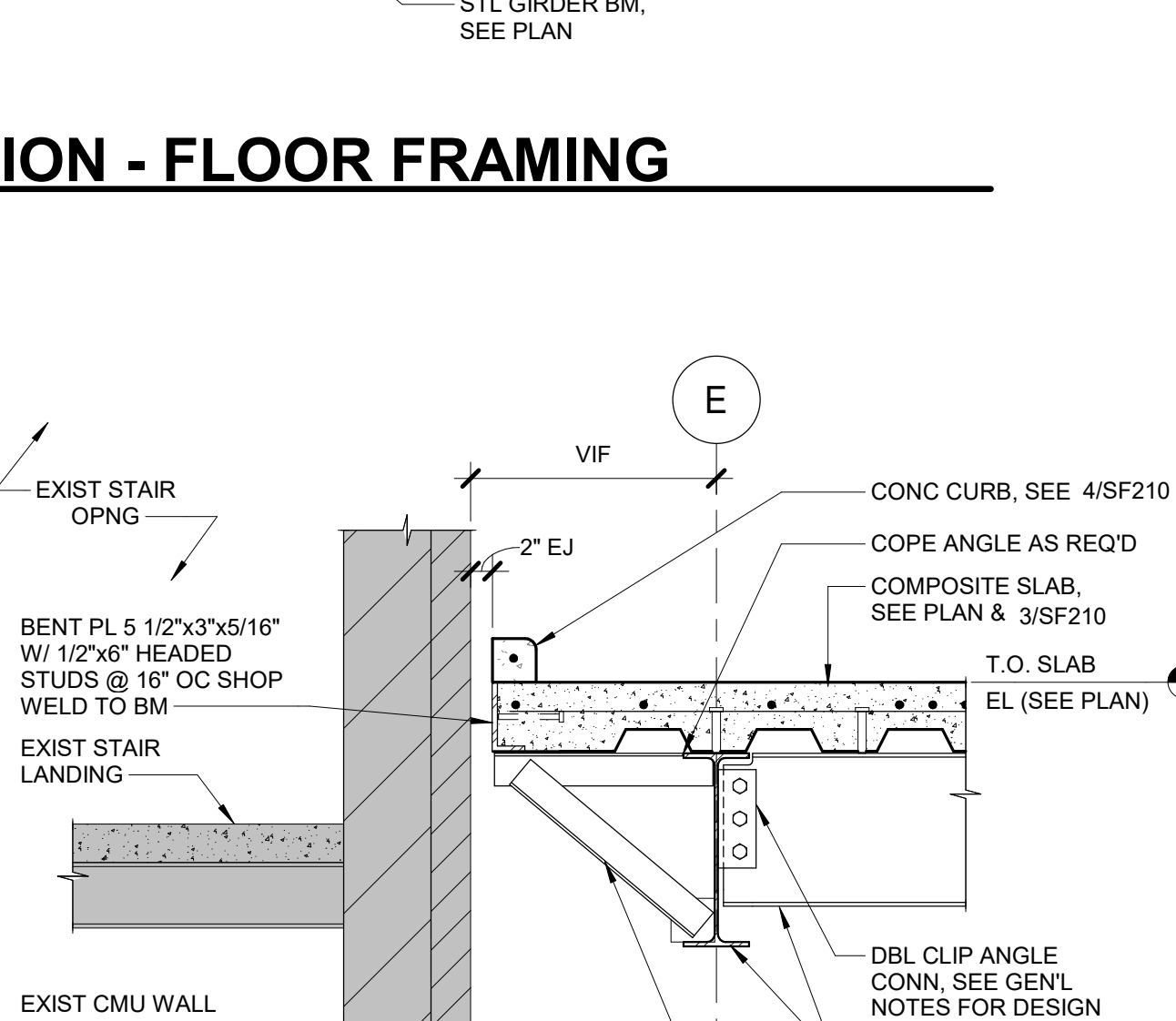
12 SECTION - FLOOR FRAMING
3/4" = 1'-0"



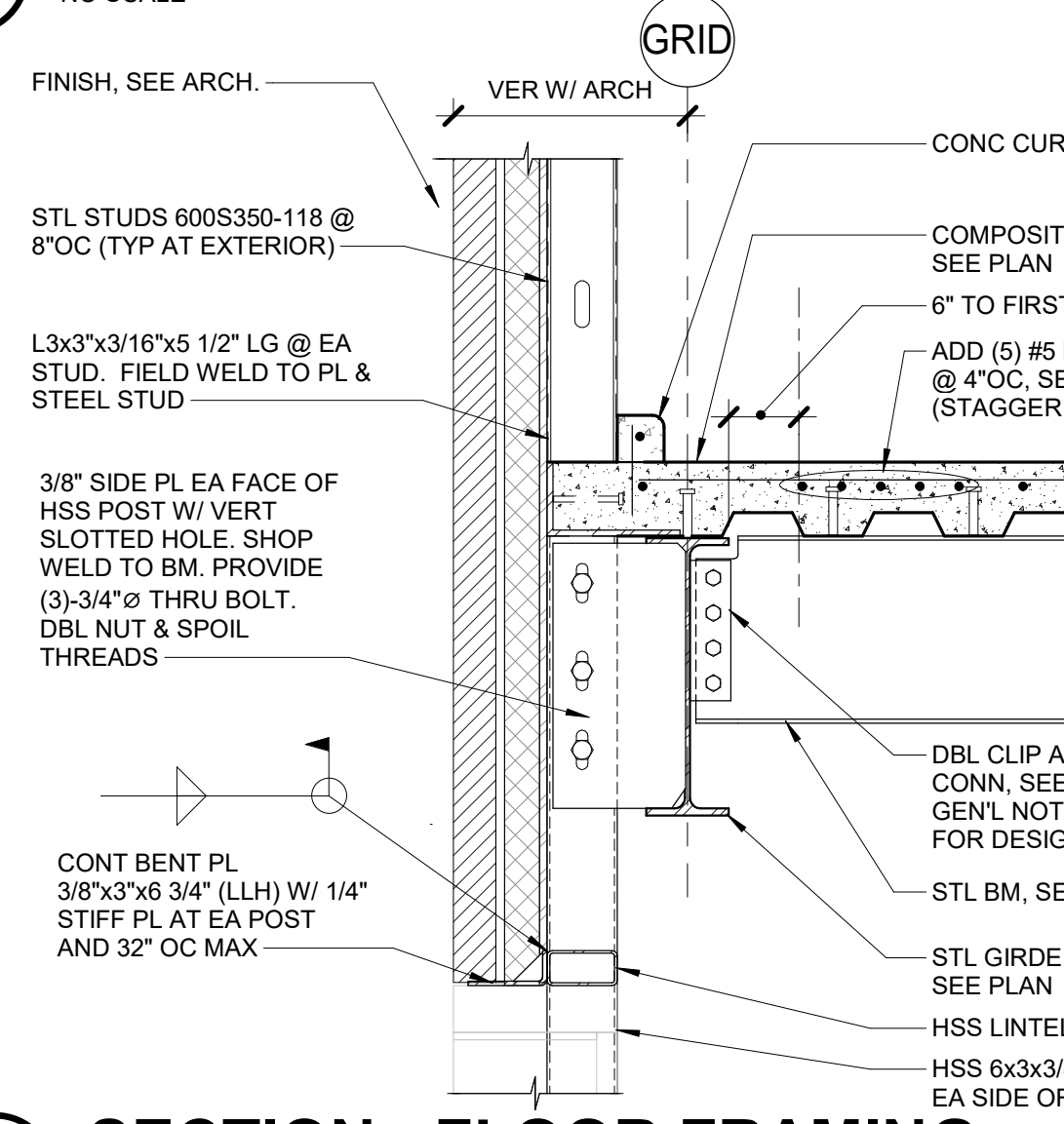
13 SECTION - FLOOR FRAMING
3/4" = 1'-0"



14 SECTION - FLOOR FRAMING
3/4" = 1'-0"



15 SECTION - FLOOR FRAMING
3/4" = 1'-0"



16 SECTION - FLOOR FRAMING
3/4" = 1'-0"

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PROJECT #1900248104

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Anderson Engineering of Minnesota, LLC | Proj # 16584

STAMP

Professional Engineer
1100
MICHAEL P. MERRIN
2-14-2025

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title
SECTIONS - FLOOR

Approved:

Phase
BID DOCUMENTS

FULLY SPRINKLERED

Project Title
CONSTRUCT NEW SPS

Location
Sioux Falls, SD.

Issue Date
02/14/2025

Checked
MPM/TGL

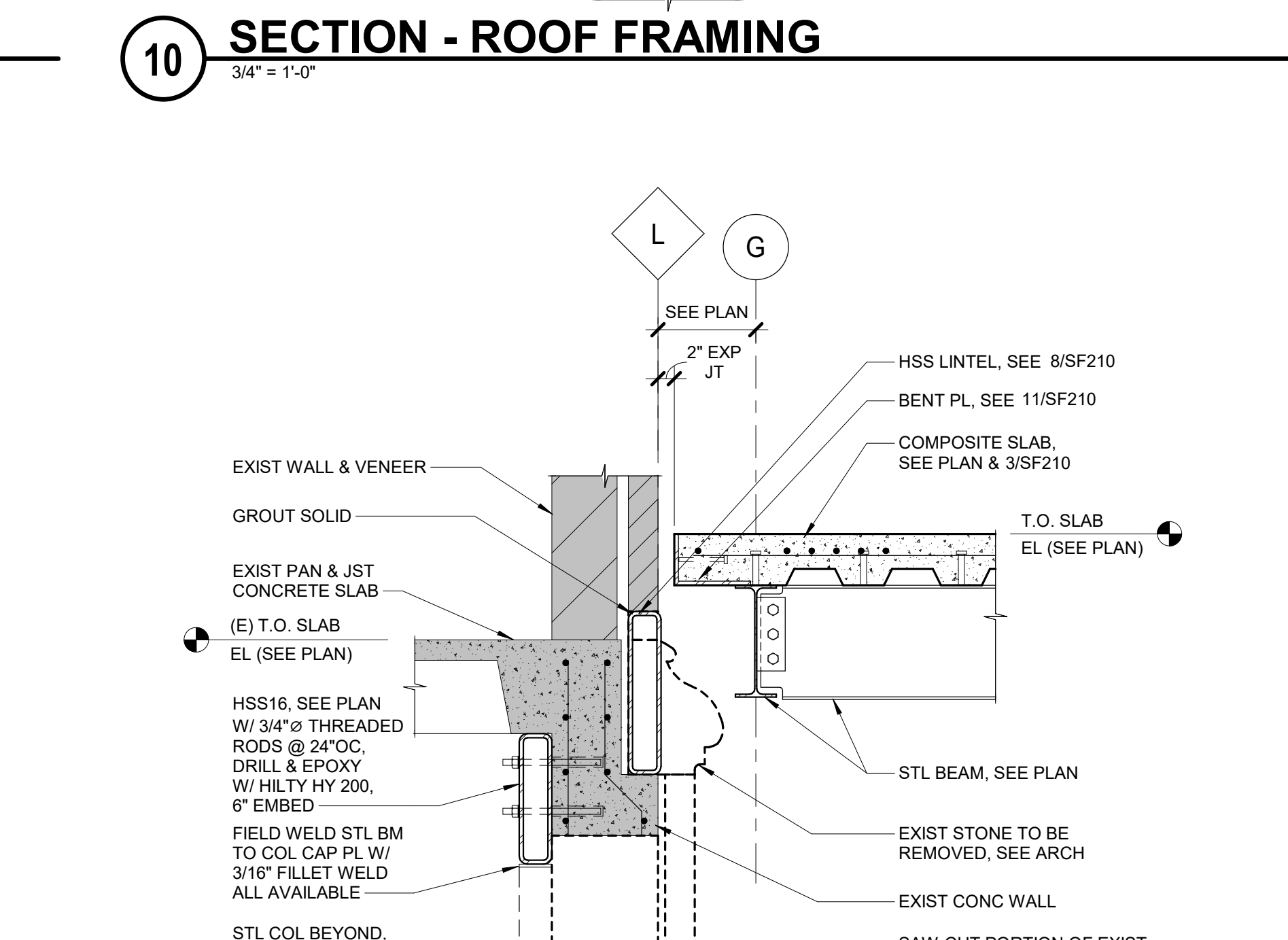
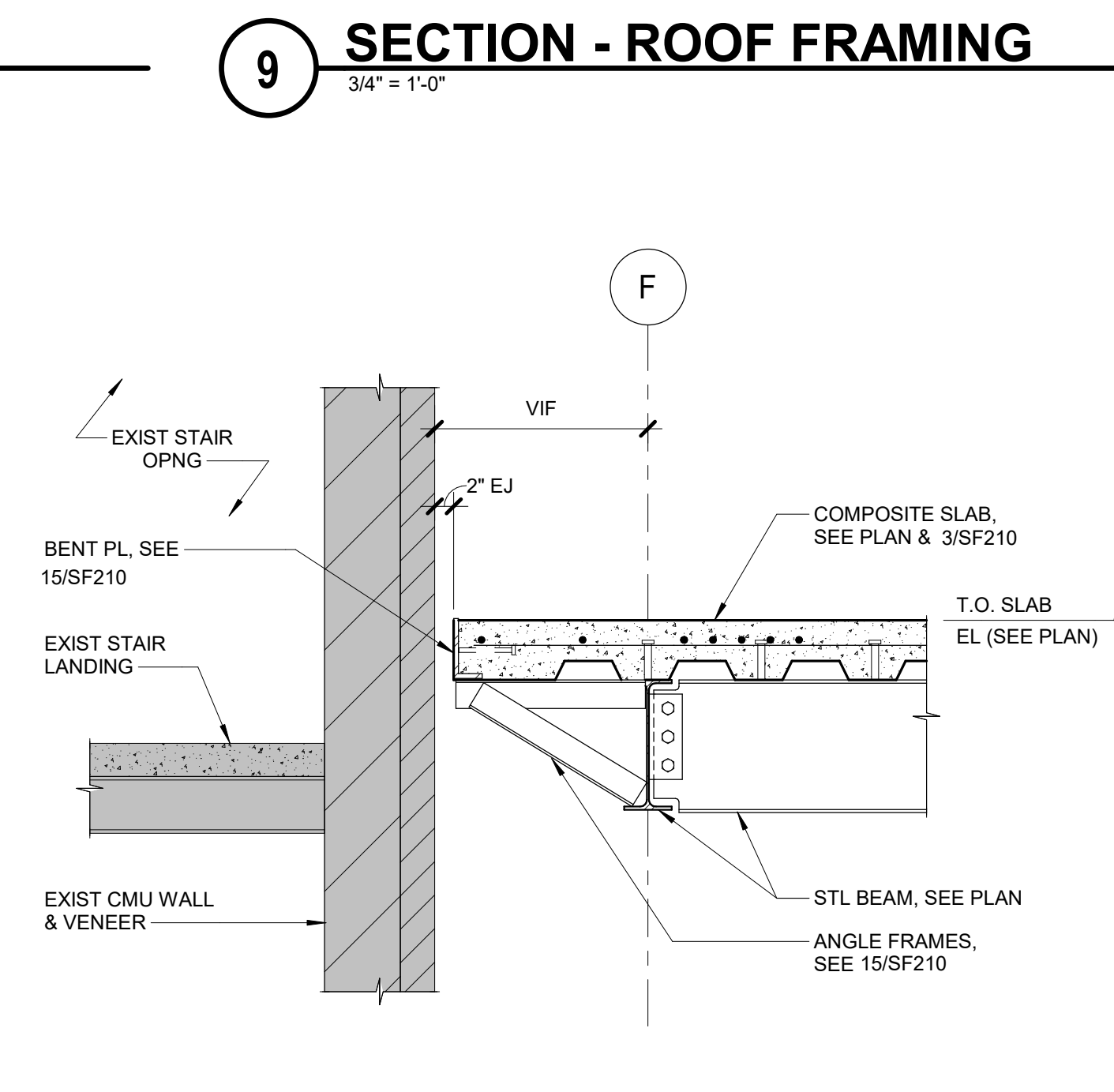
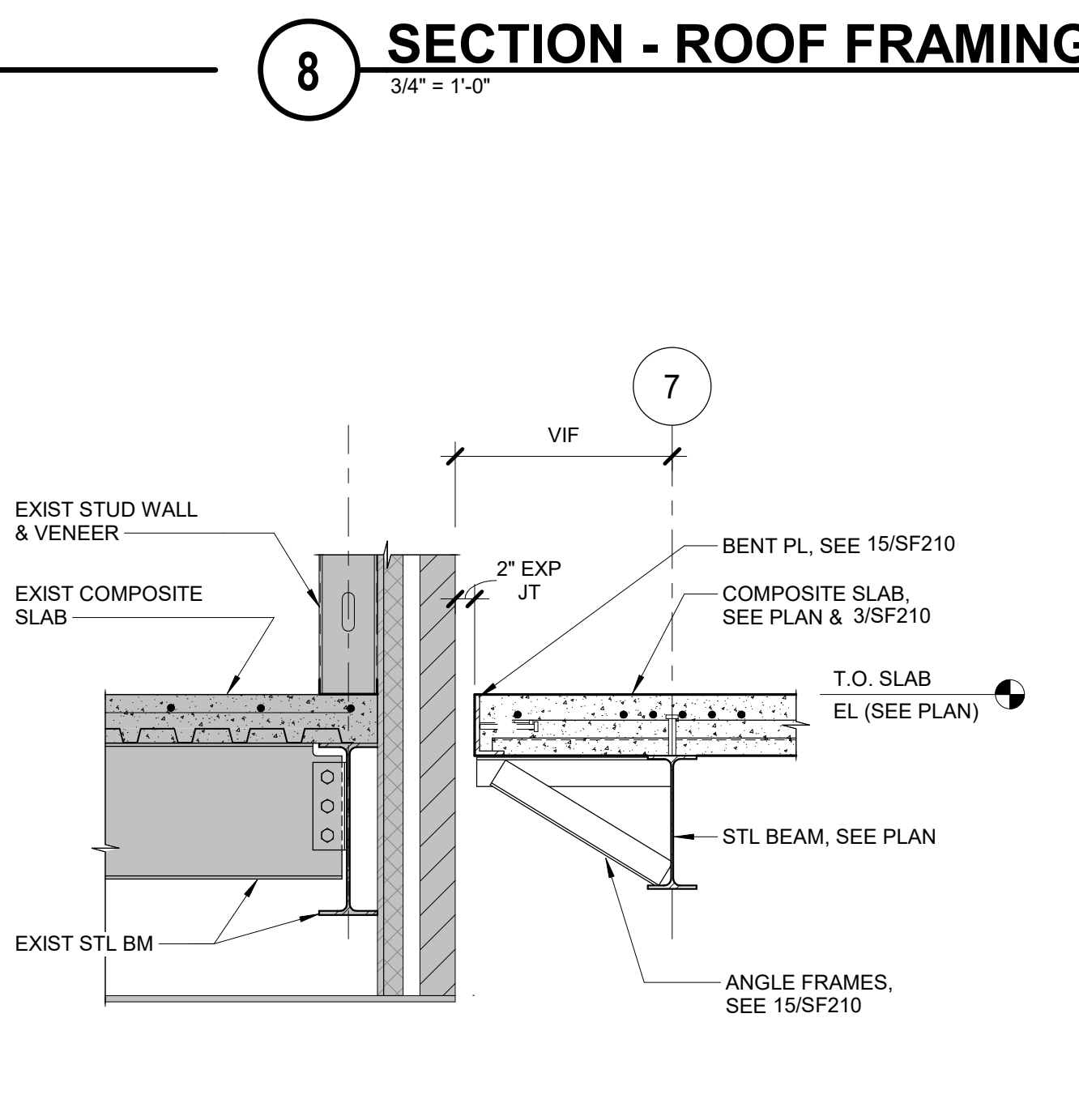
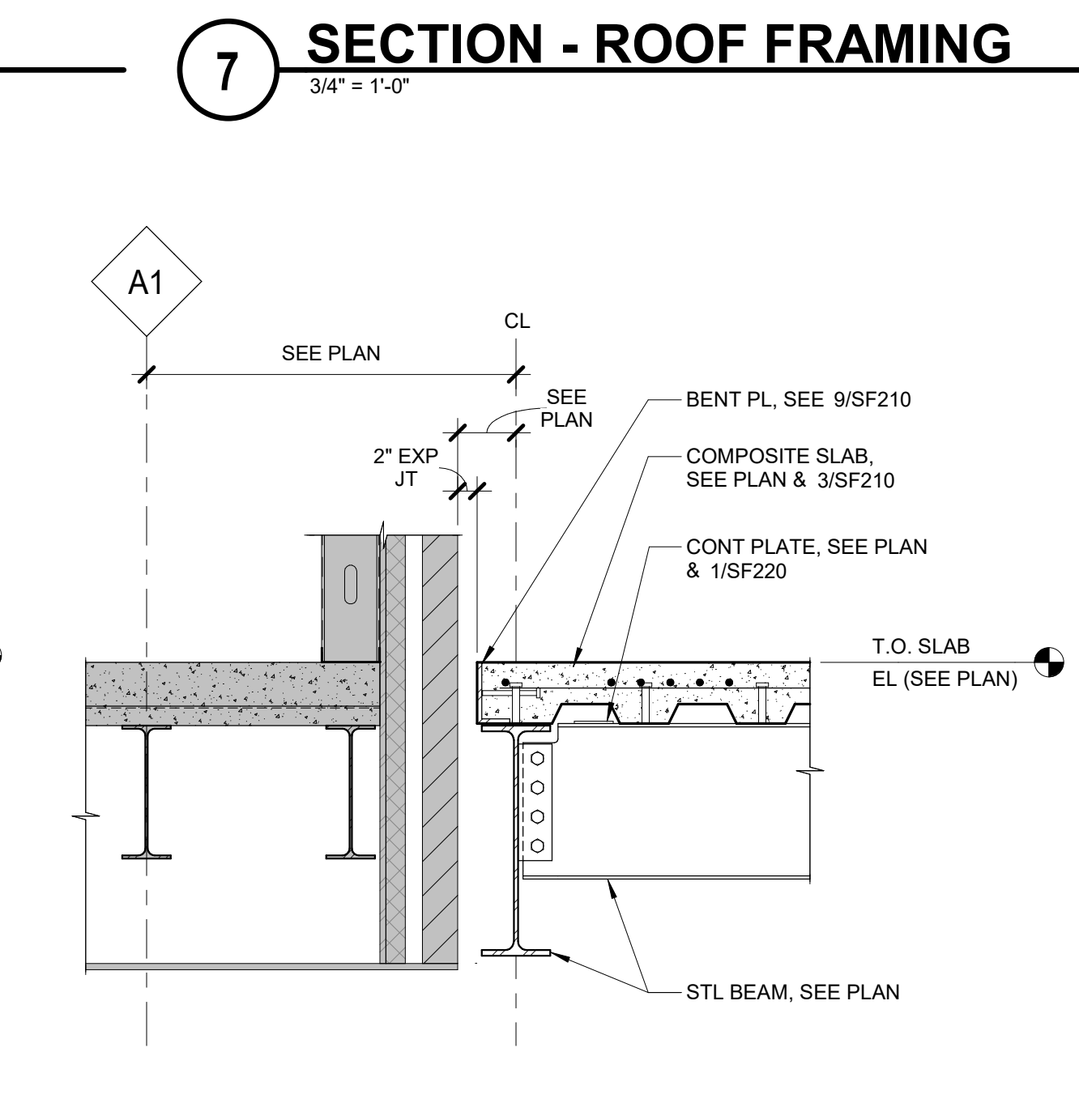
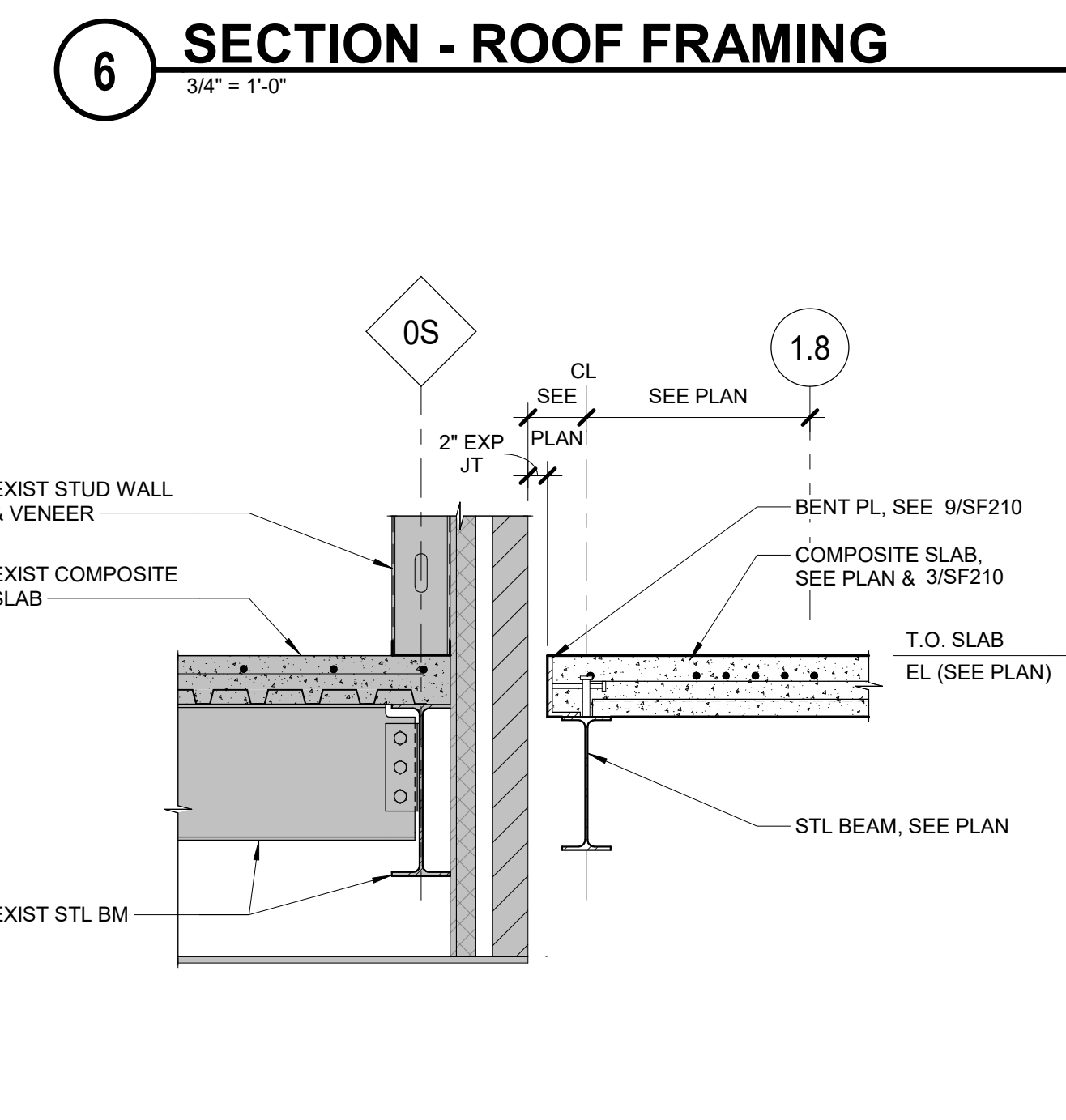
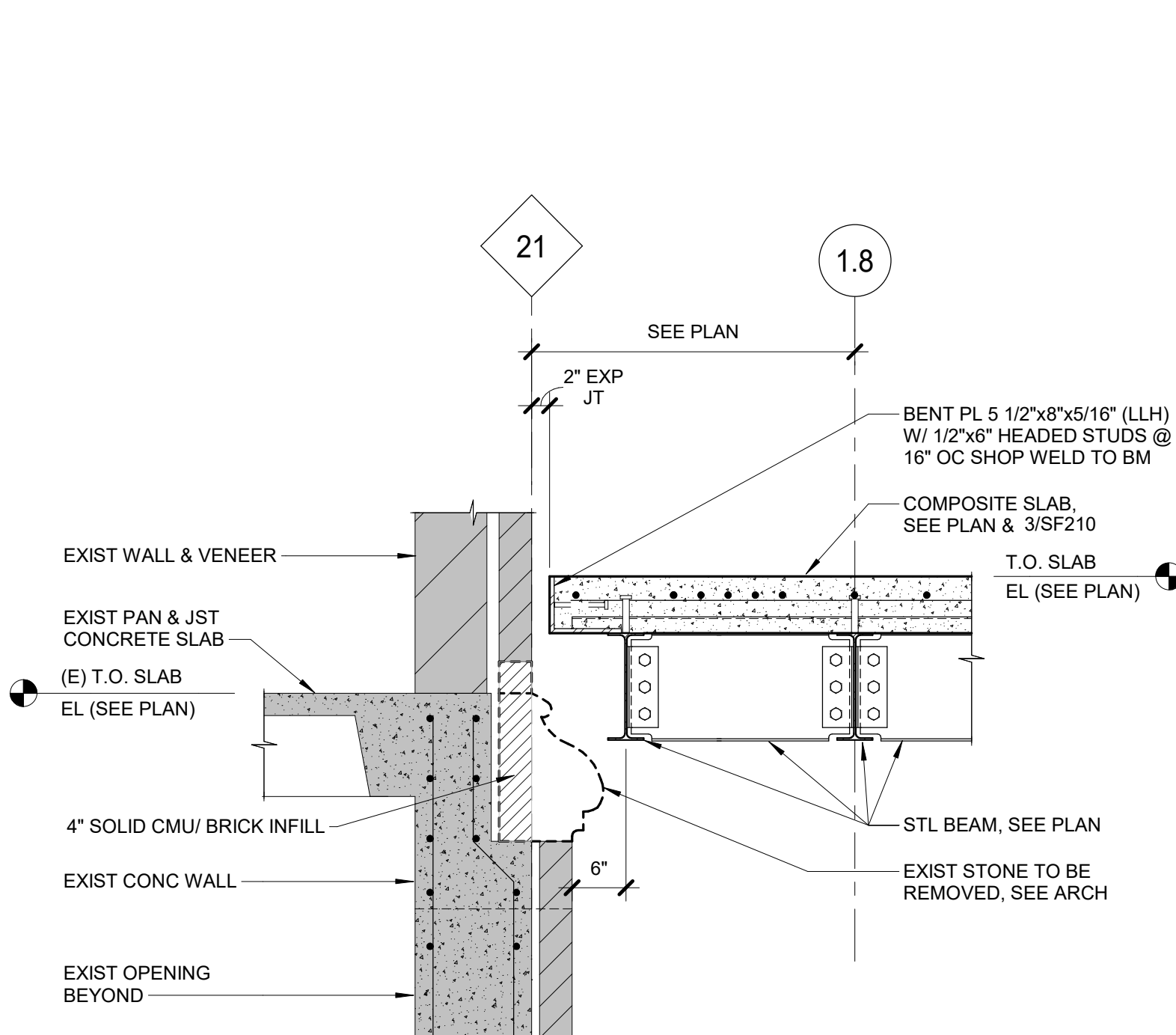
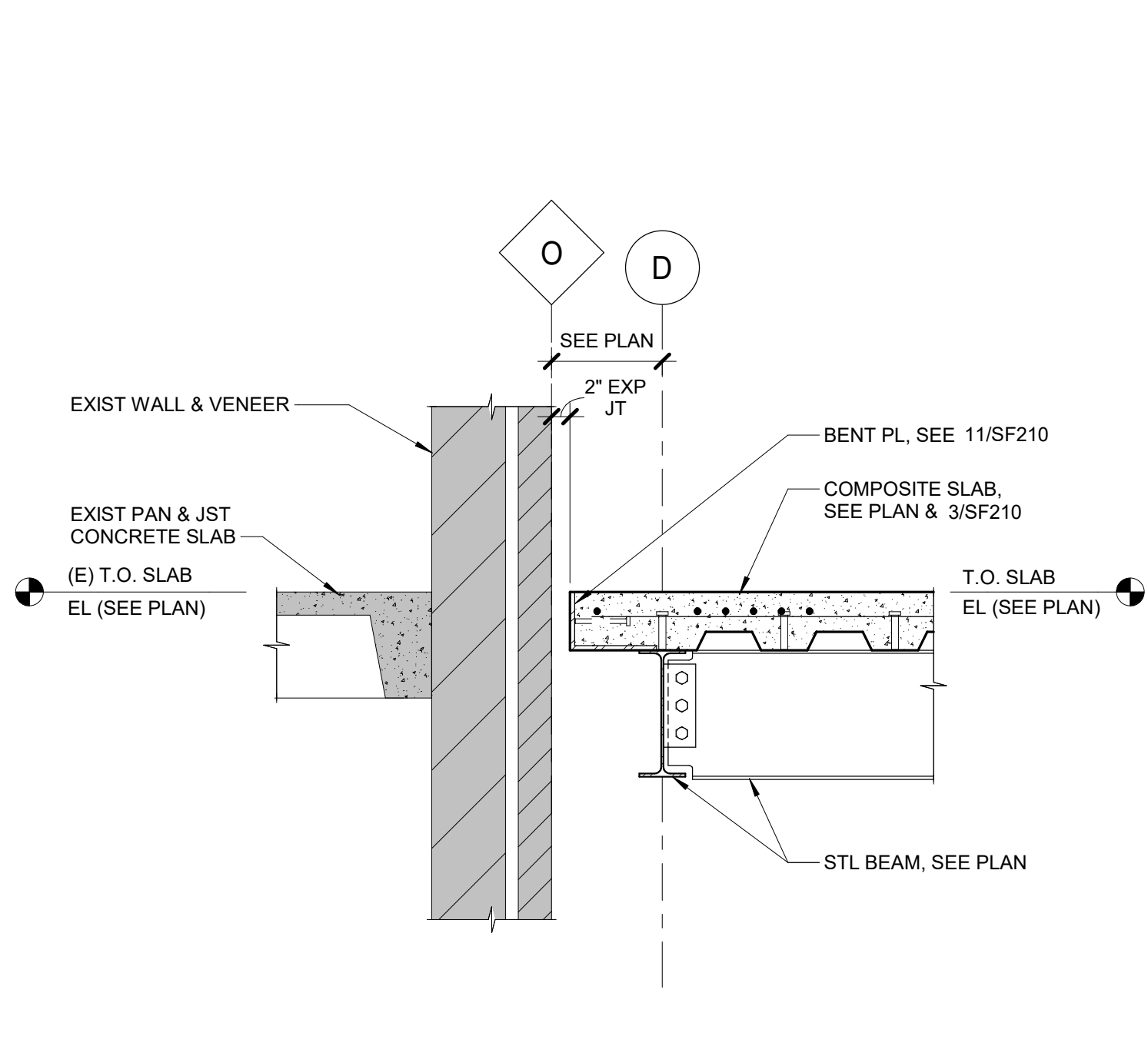
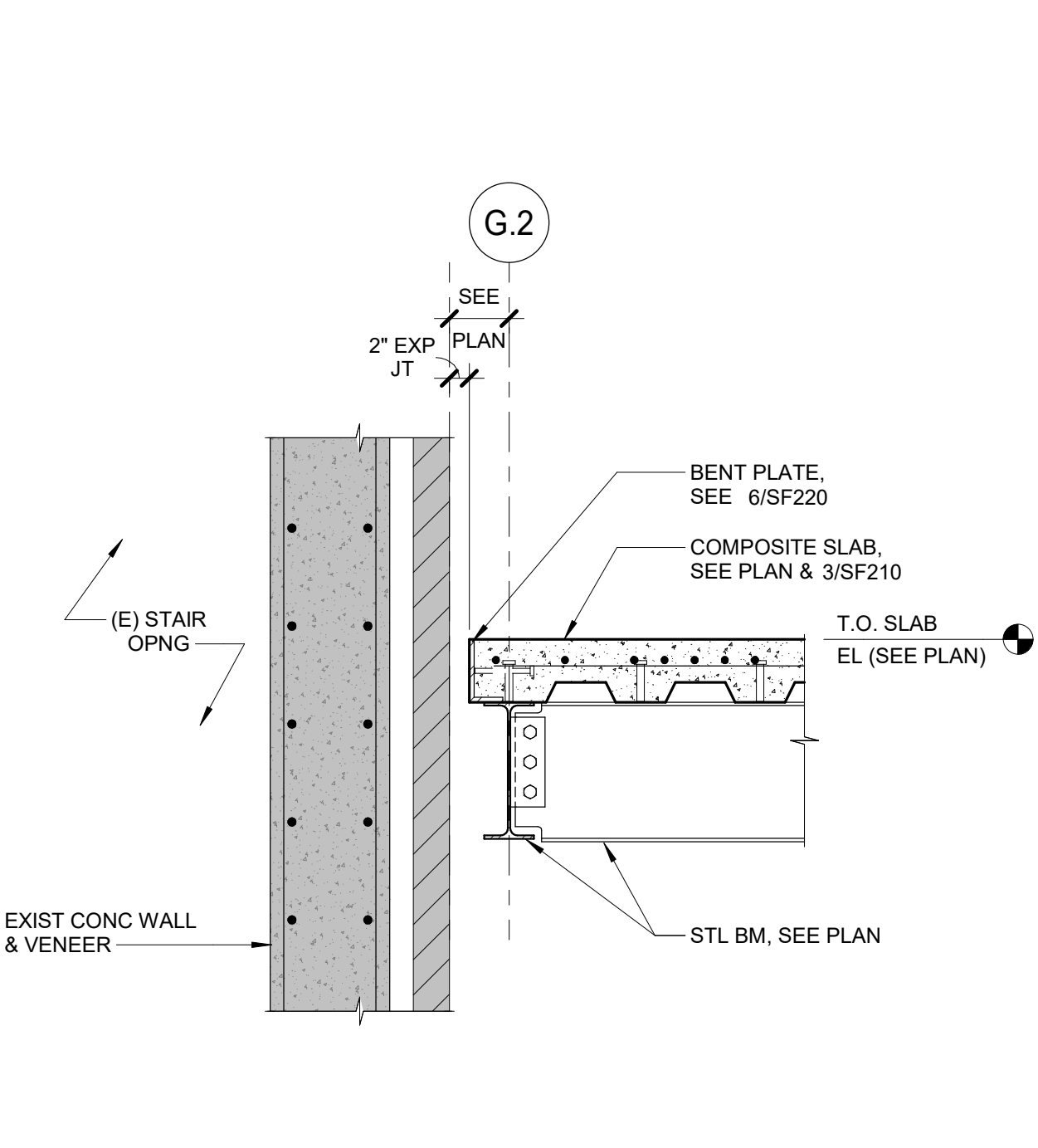
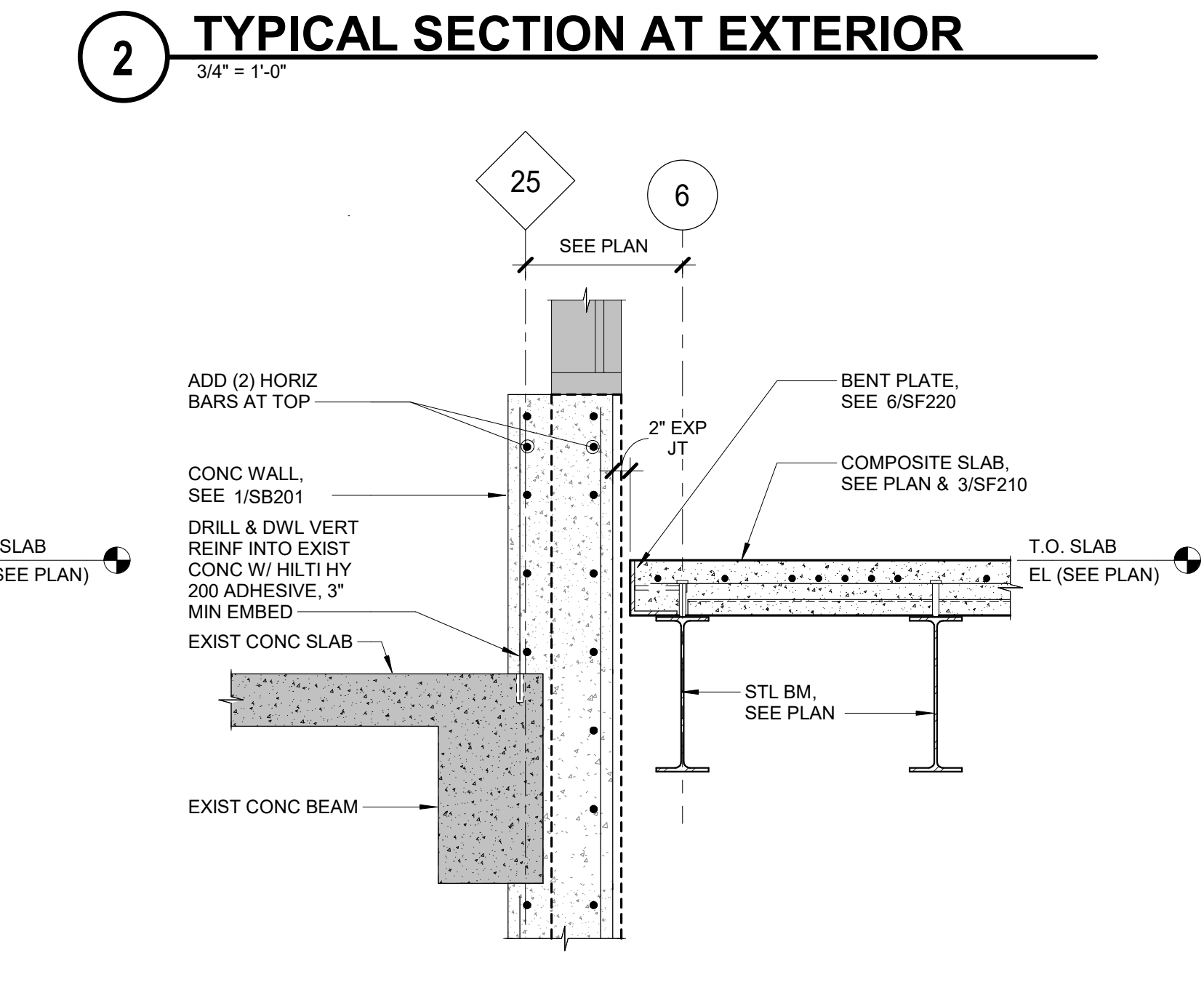
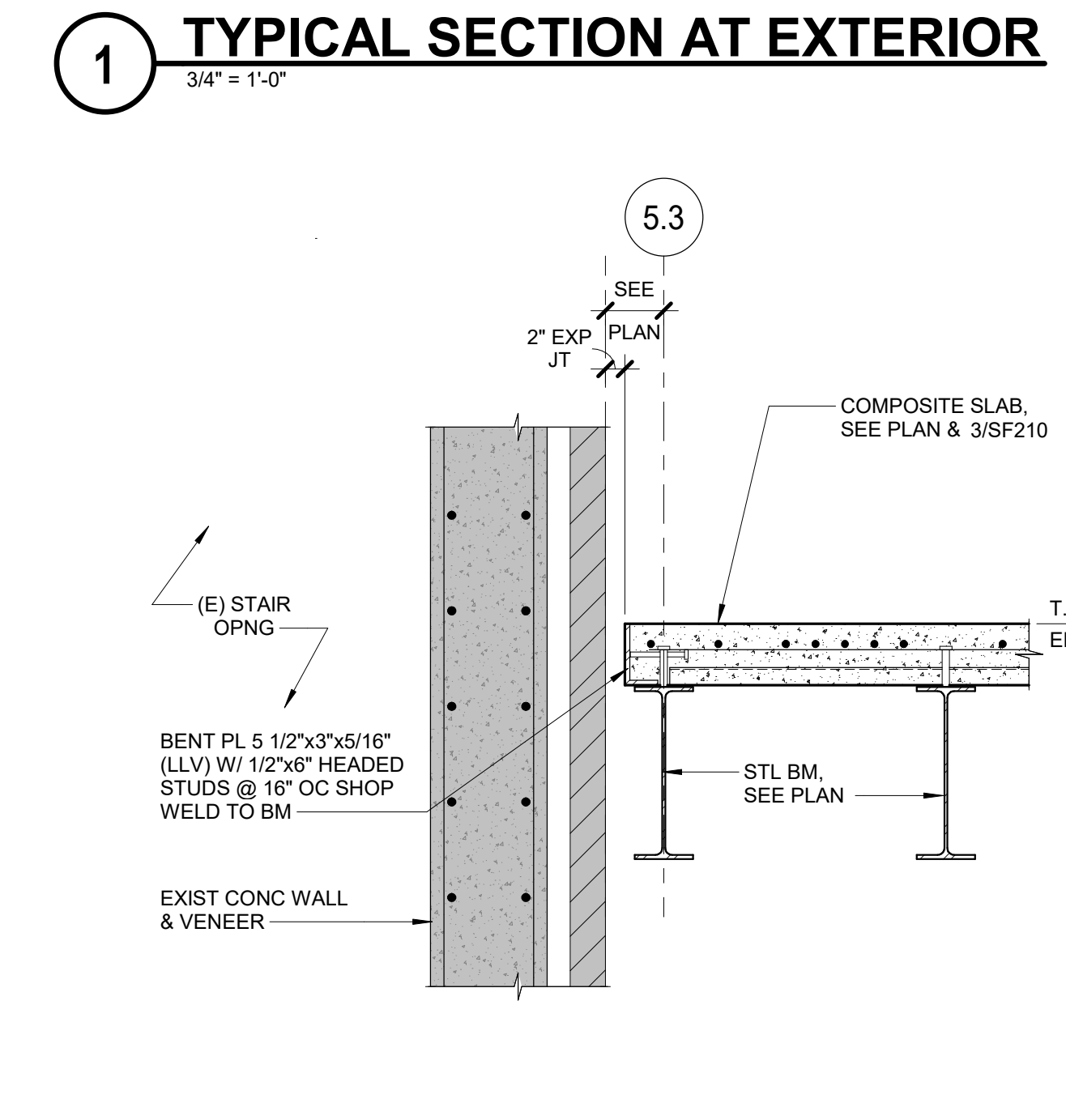
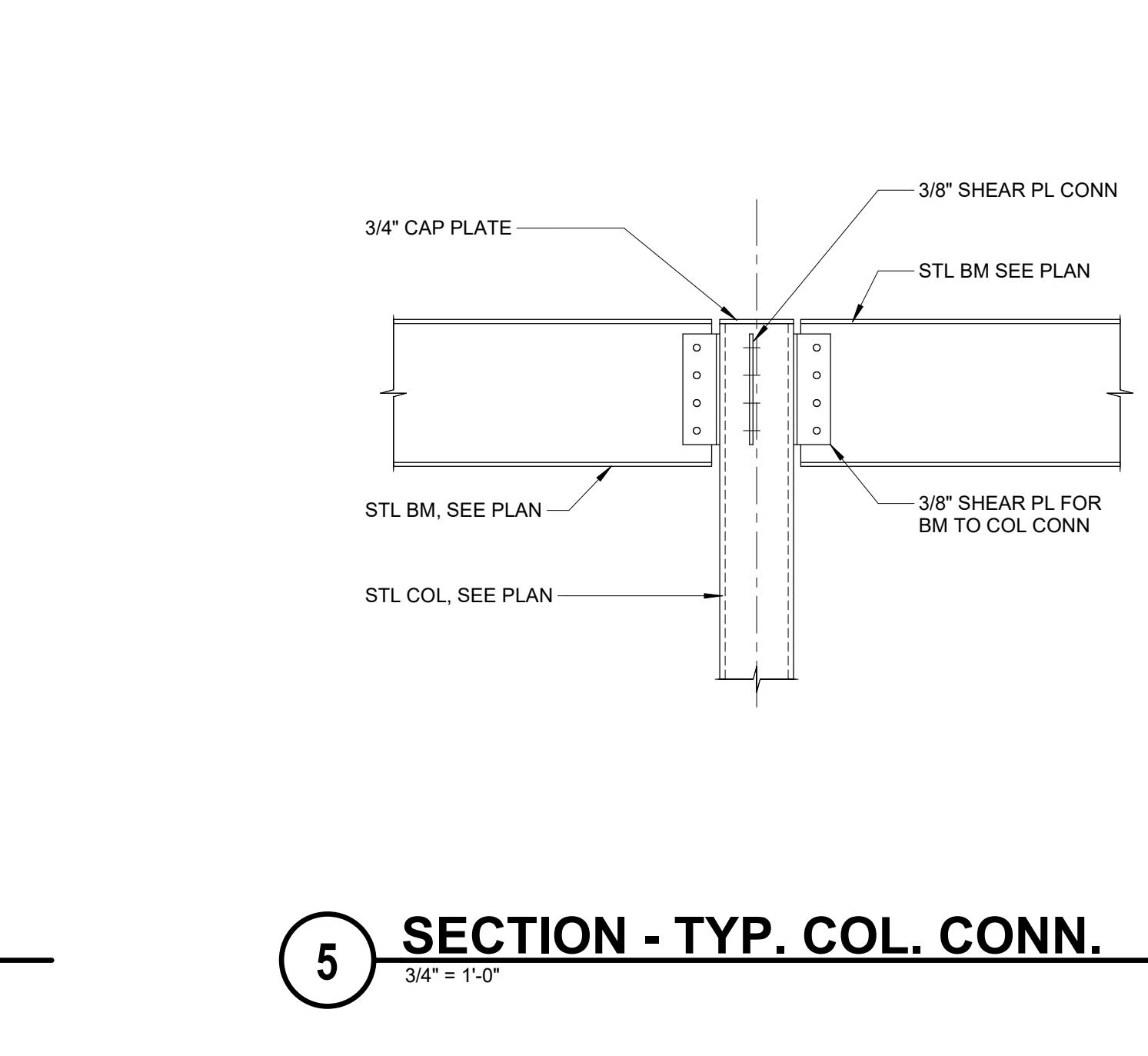
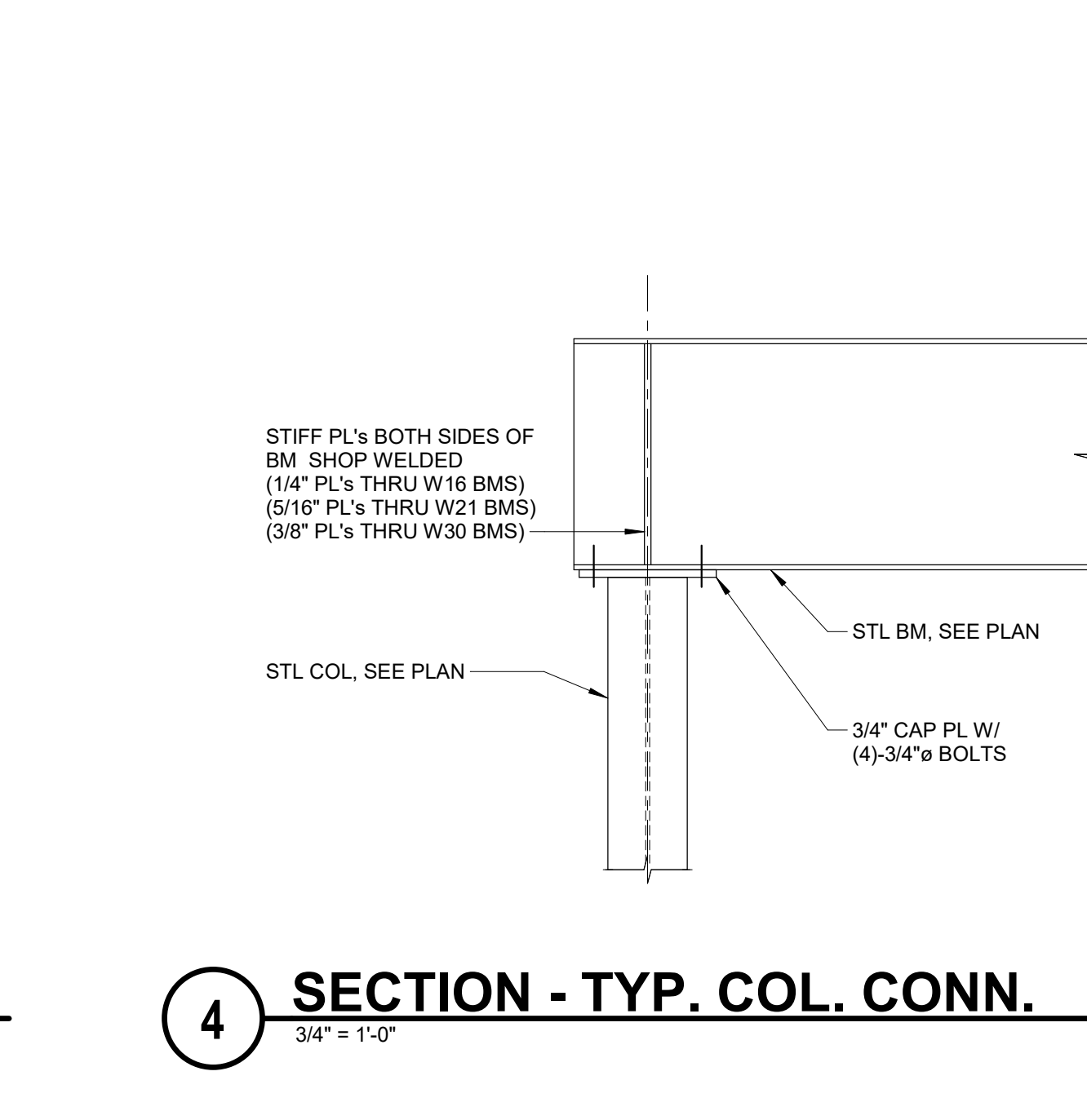
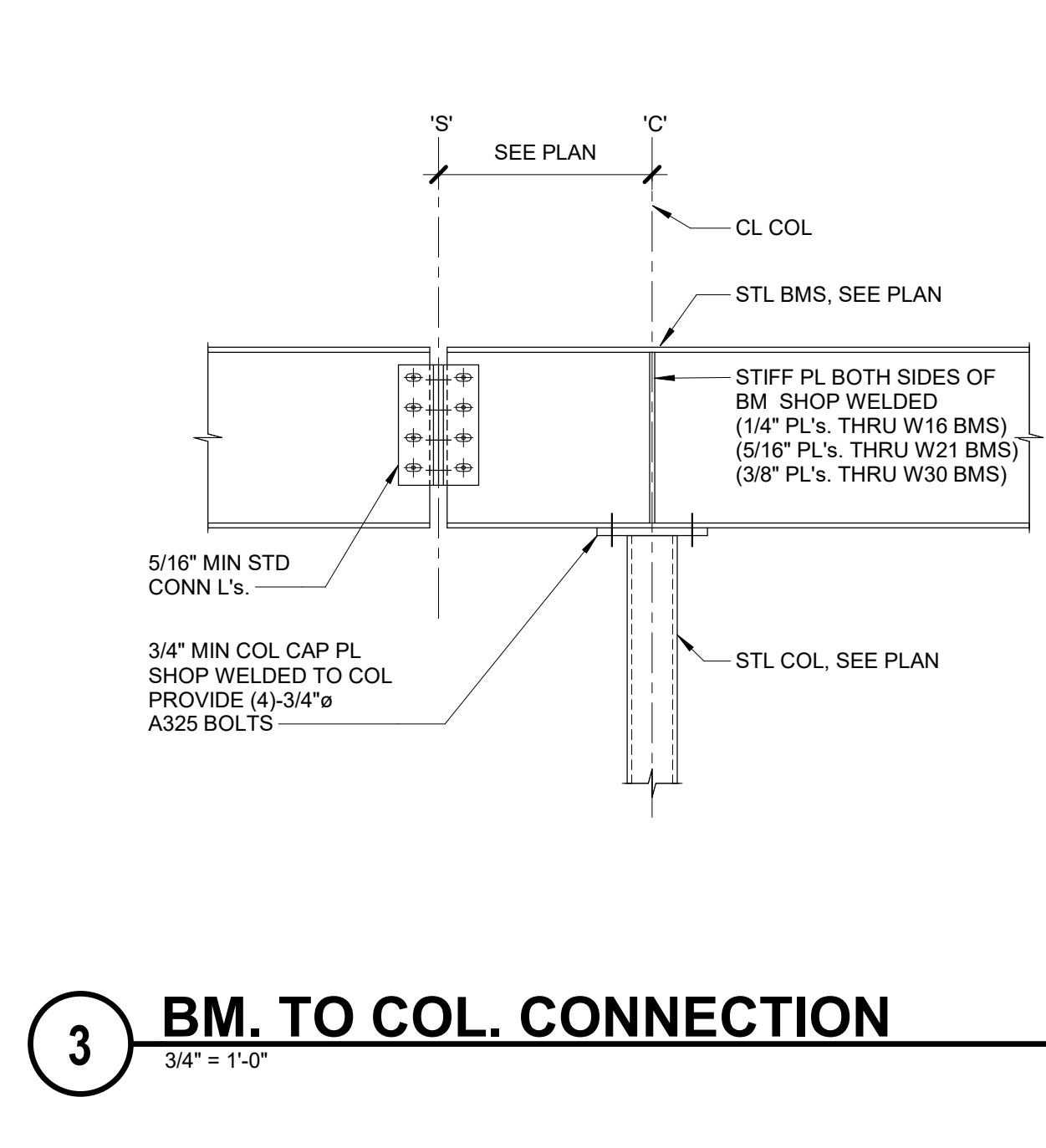
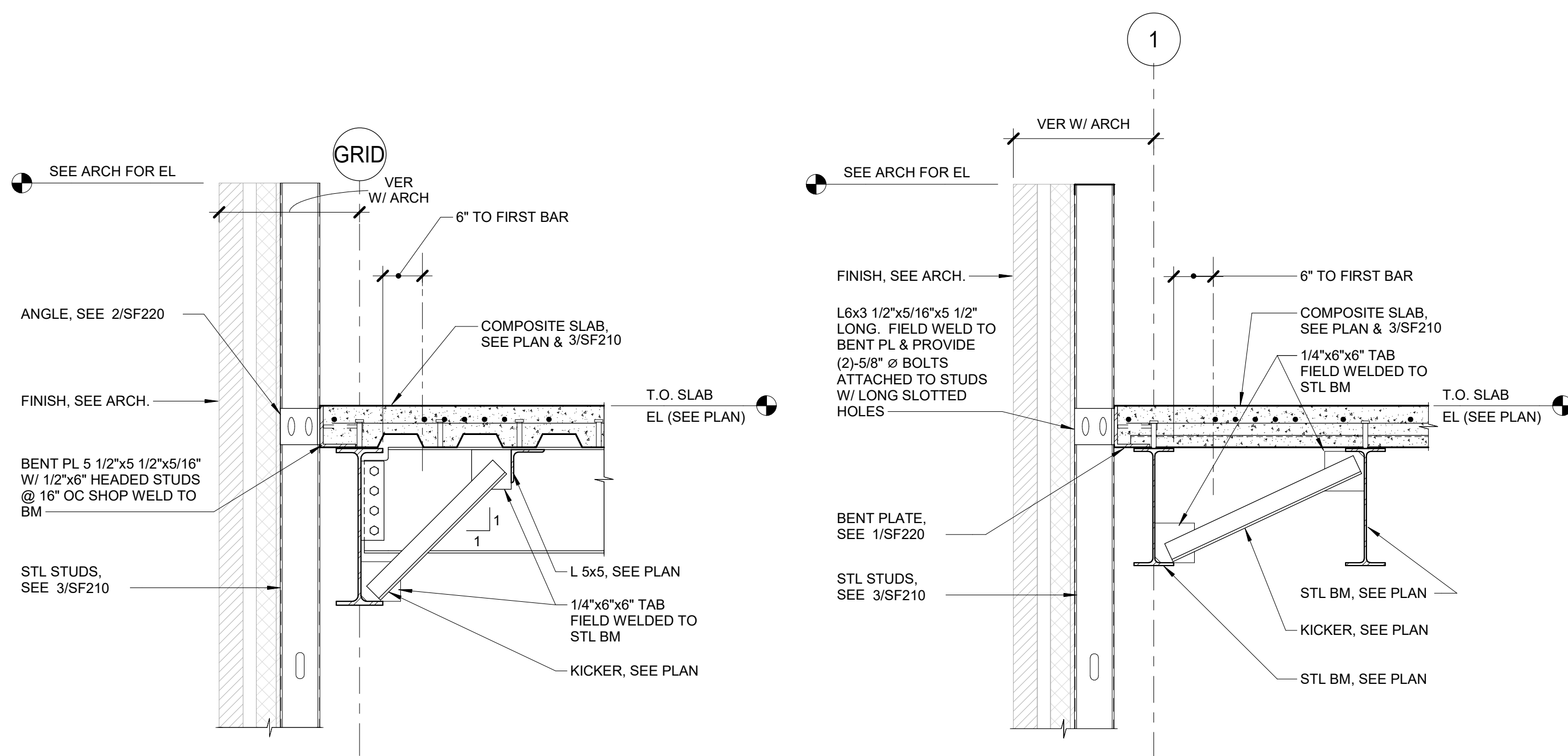
Drawn
MAQ

Project Number
438-460

Building Number
5

Drawing Number
SF210

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2/26/2025 1:40:53 PM
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F

Revisions:	Date:

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Anderson Engineering of Minnesota, LLC | Proj # 16684

STAMP

Professional Engineer
1100
MICHAEL P. MERRIN
2-14-2025

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title
SECTIONS - ROOF

Approved:

Phase
BID DOCUMENTS

FULLY SPRINKLERED

Project Title
CONSTRUCT NEW SPS

Location
Sioux Falls, SD.

Issue Date
02/14/2025

Checked
MPM/TGL

Drawn
MAQ

Project Number
438-460

Building Number
5

Drawing Number
SF220

A

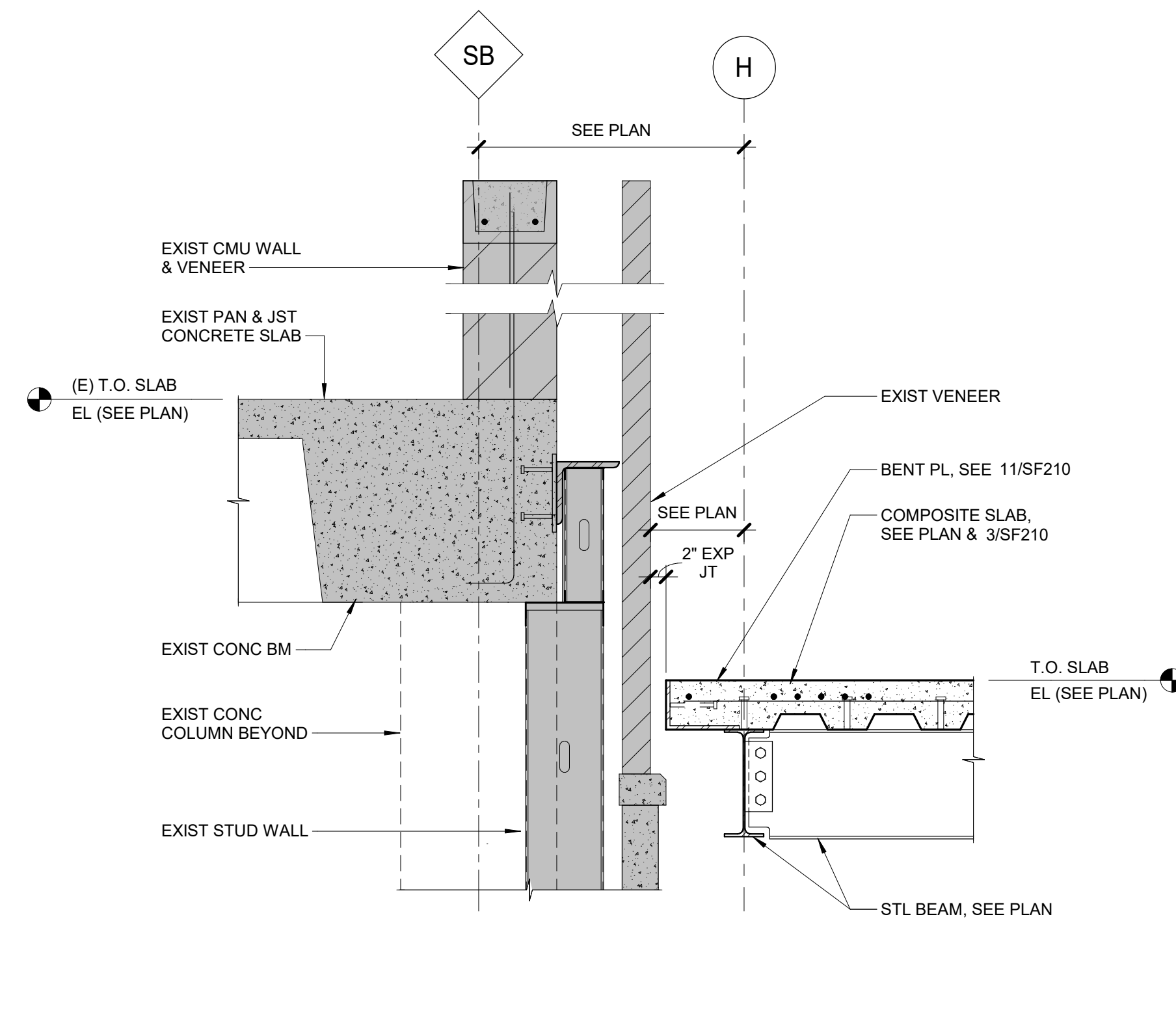
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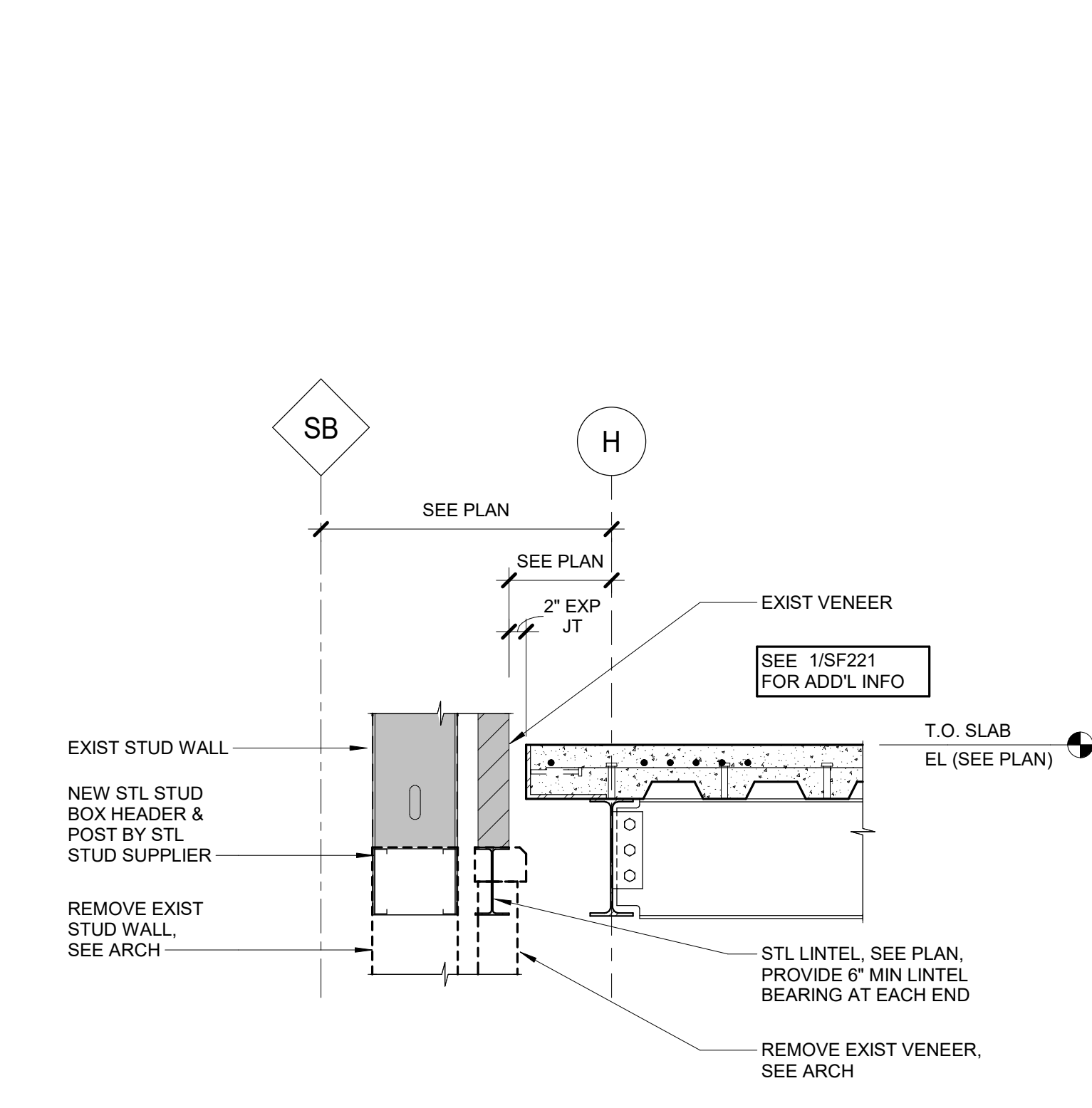
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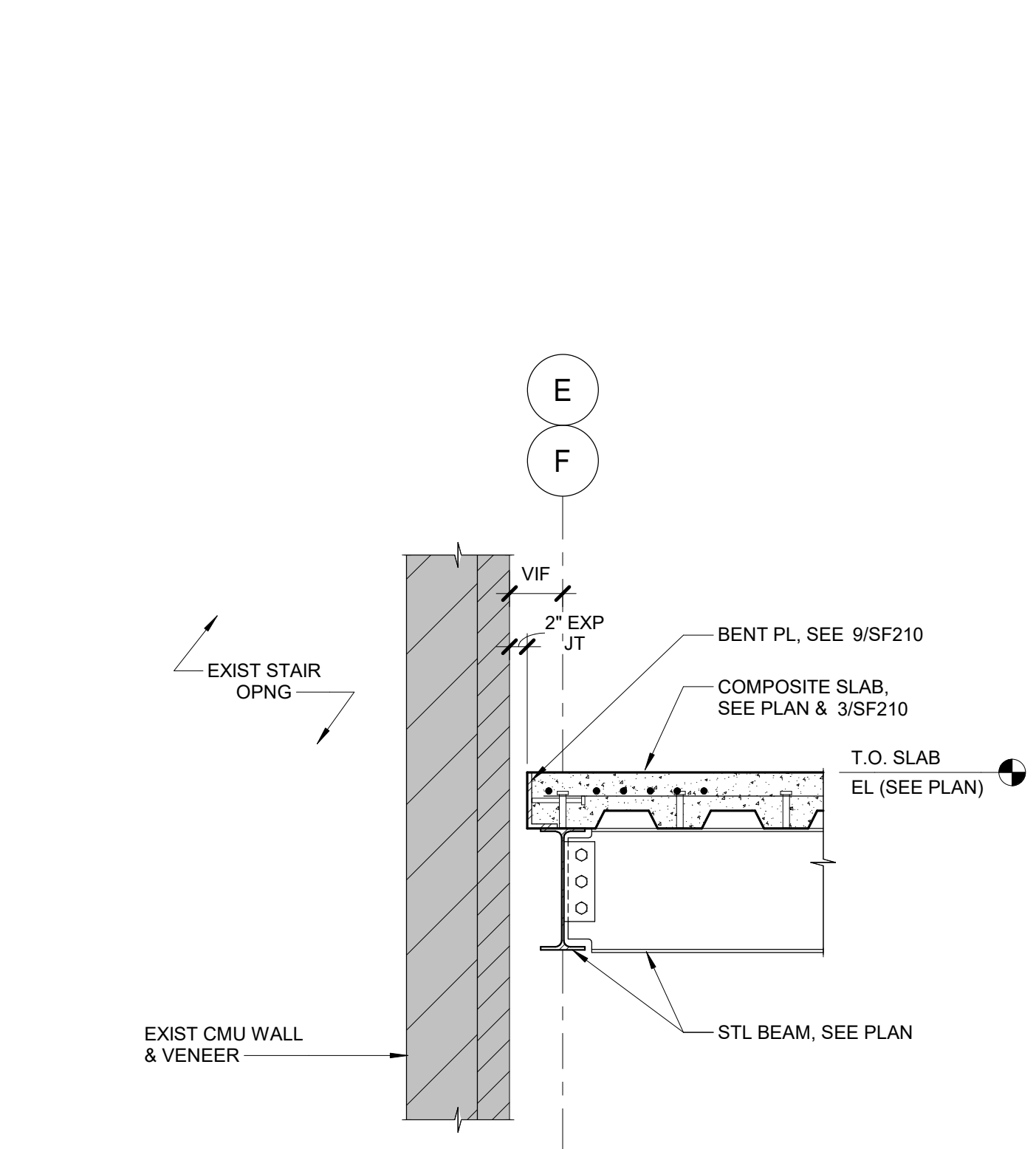
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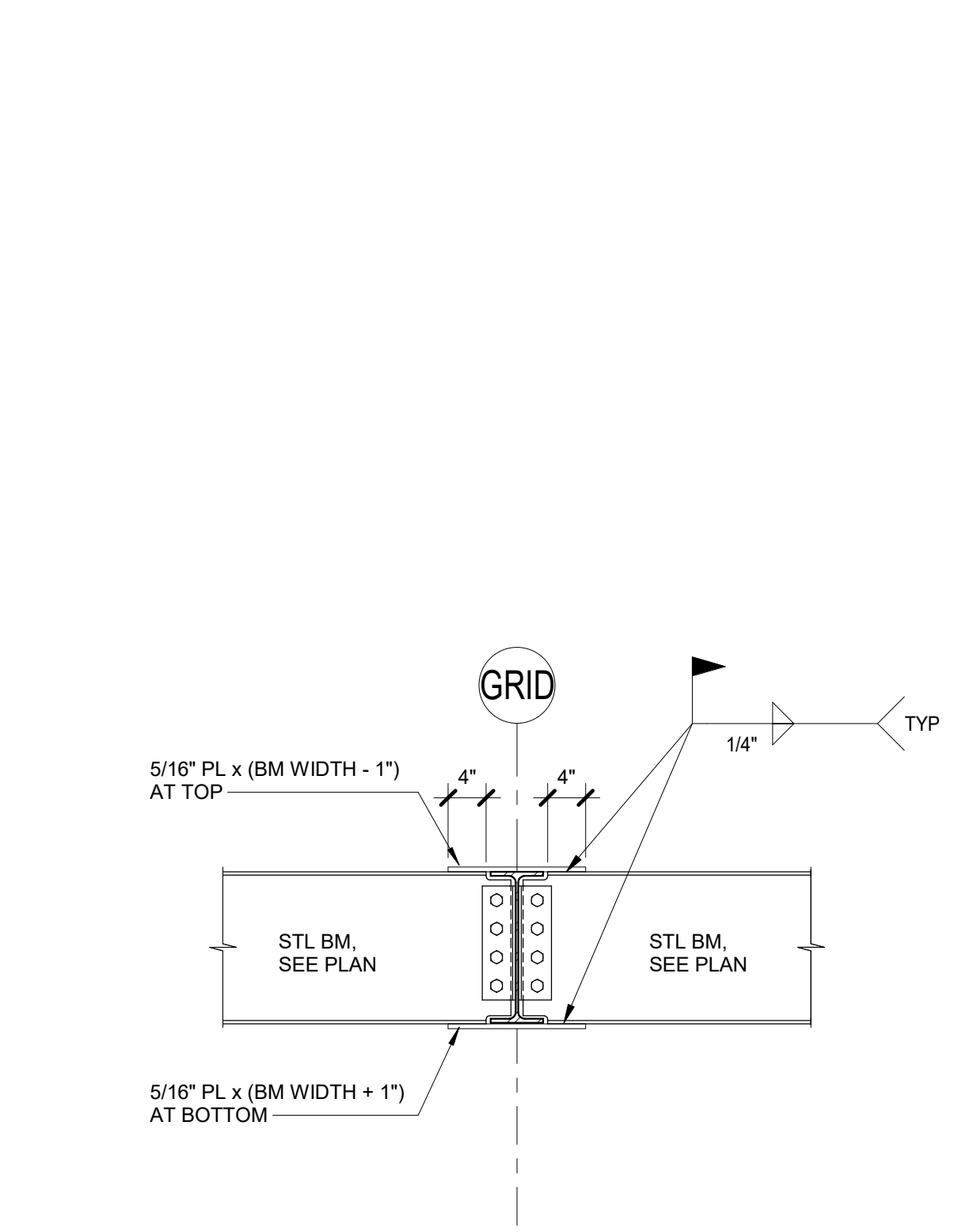
1 SECTION - ROOF FRAMING
3/4" = 1'-0"



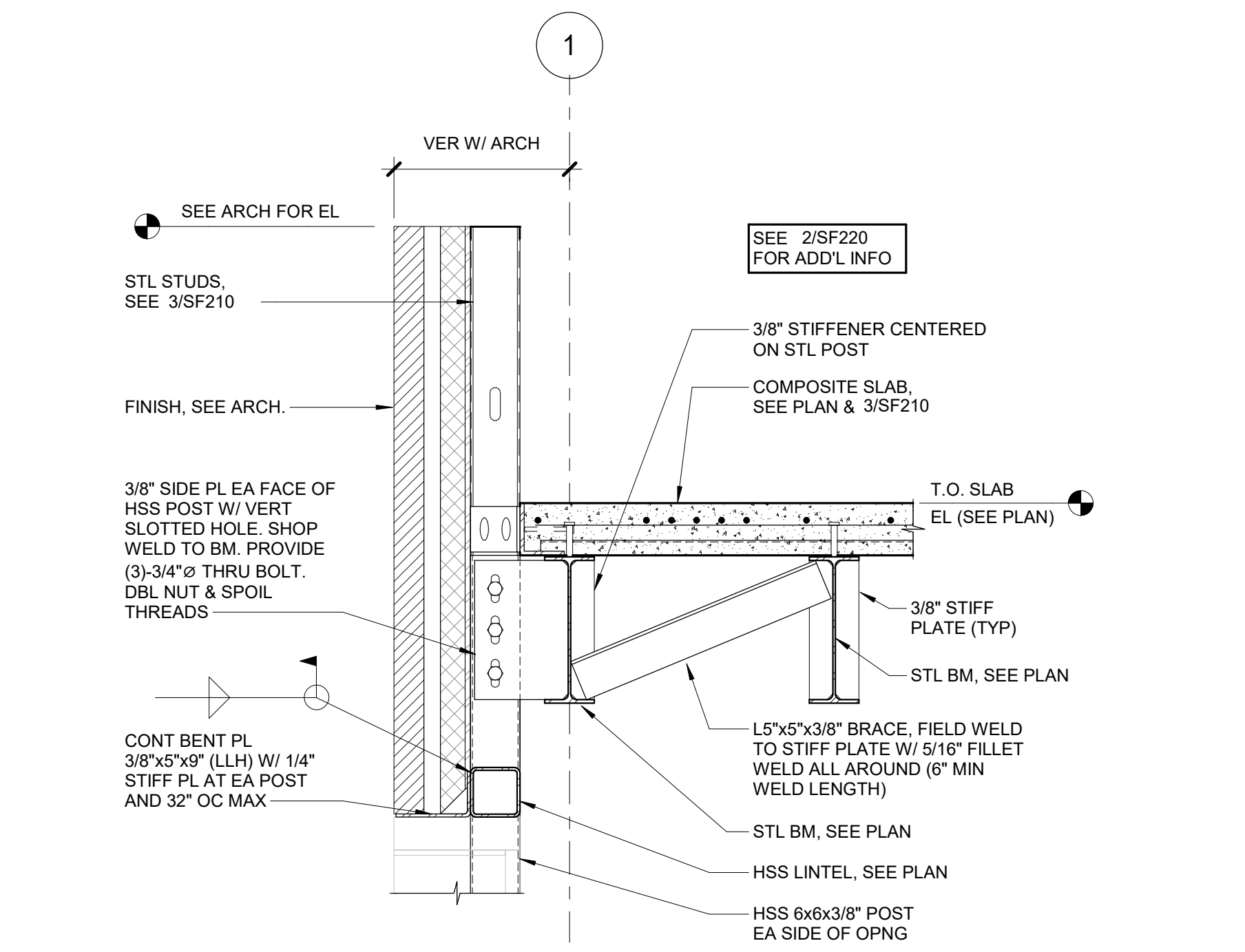
2 SECTION - ROOF FRAMING
3/4" = 1'-0"



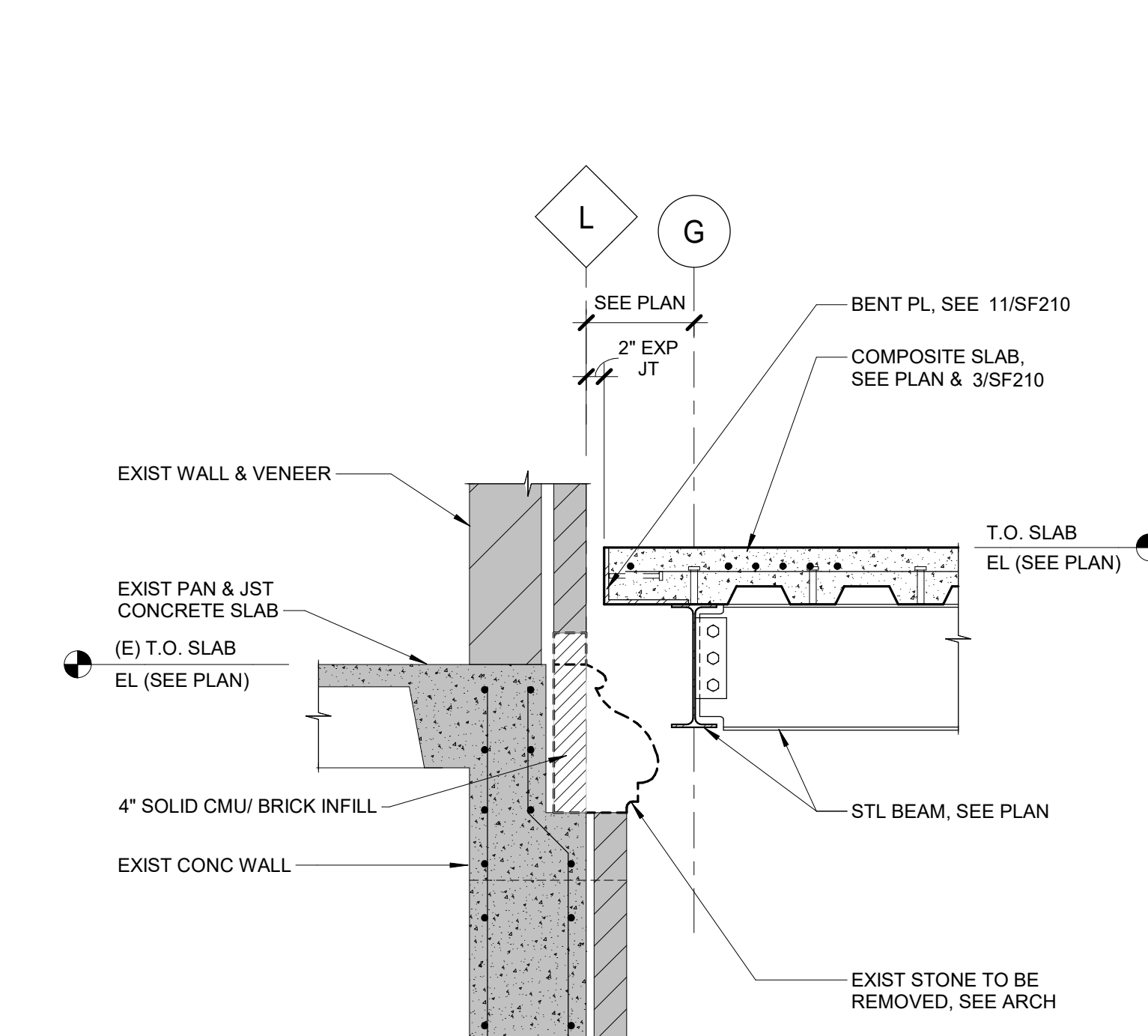
3 SECTION - ROOF FRAMING
3/4" = 1'-0"



4 SECTION AT MOMENT CONNECTION
3/4" = 1'-0"



5 SECTION - ROOF FRAMING
3/4" = 1'-0"



6 SECTION - ROOF FRAMING
3/4" = 1'-0"

2/26/2025 1:40:54 PM
 BIM 360://9046249-04_VA-Wash-DC-VA-SiouxFalls-New-SFS-Cnt
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Revisions:	Date:

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PROJECT: 1904249-04

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Professional Engineer
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SOUTH DAKOTA
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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
SECTIONS - ROOF

Approved:

Phase
BID DOCUMENTS

FULLY SPRINKLERED

Project Title
CONSTRUCT NEW SPS

Location
Sioux Falls, SD.

Issue Date
02/14/2025

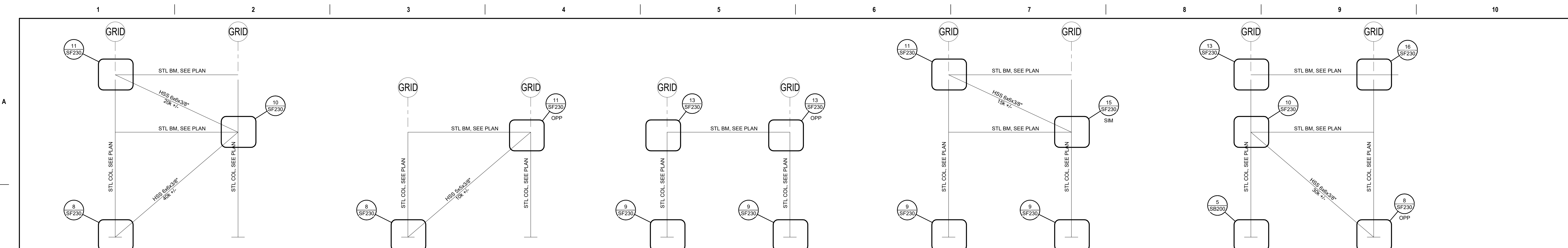
Checked
MPM/TGL

Drawn
MAQ

Project Number
438-460

Building Number
5

Drawing Number
SF221



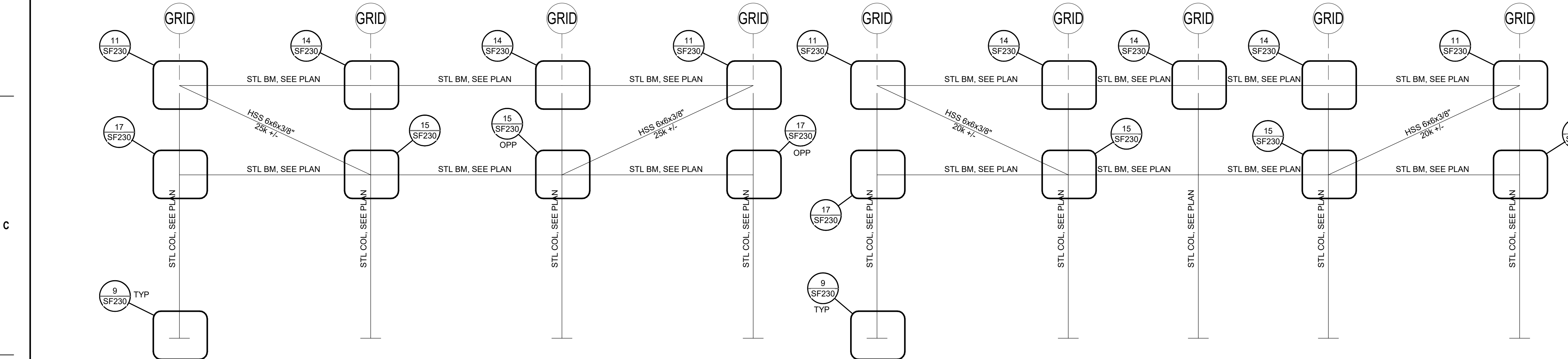
1 BRACE FRAME ELEVATION
1/2" = 1'-0"

2 BRACE FRAME ELEVATION
1/2" = 1'-0"

3 MOMENT FRAME ELEVATION
1/2" = 1'-0"

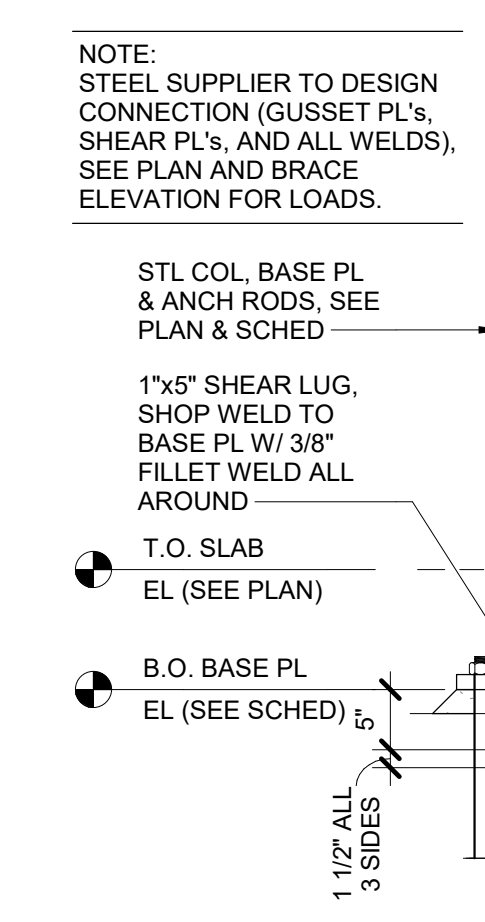
4 BRACE FRAME ELEVATION
1/2" = 1'-0"

5 BRACE / MOMENT FRAME ELEVATION
1/2" = 1'-0"

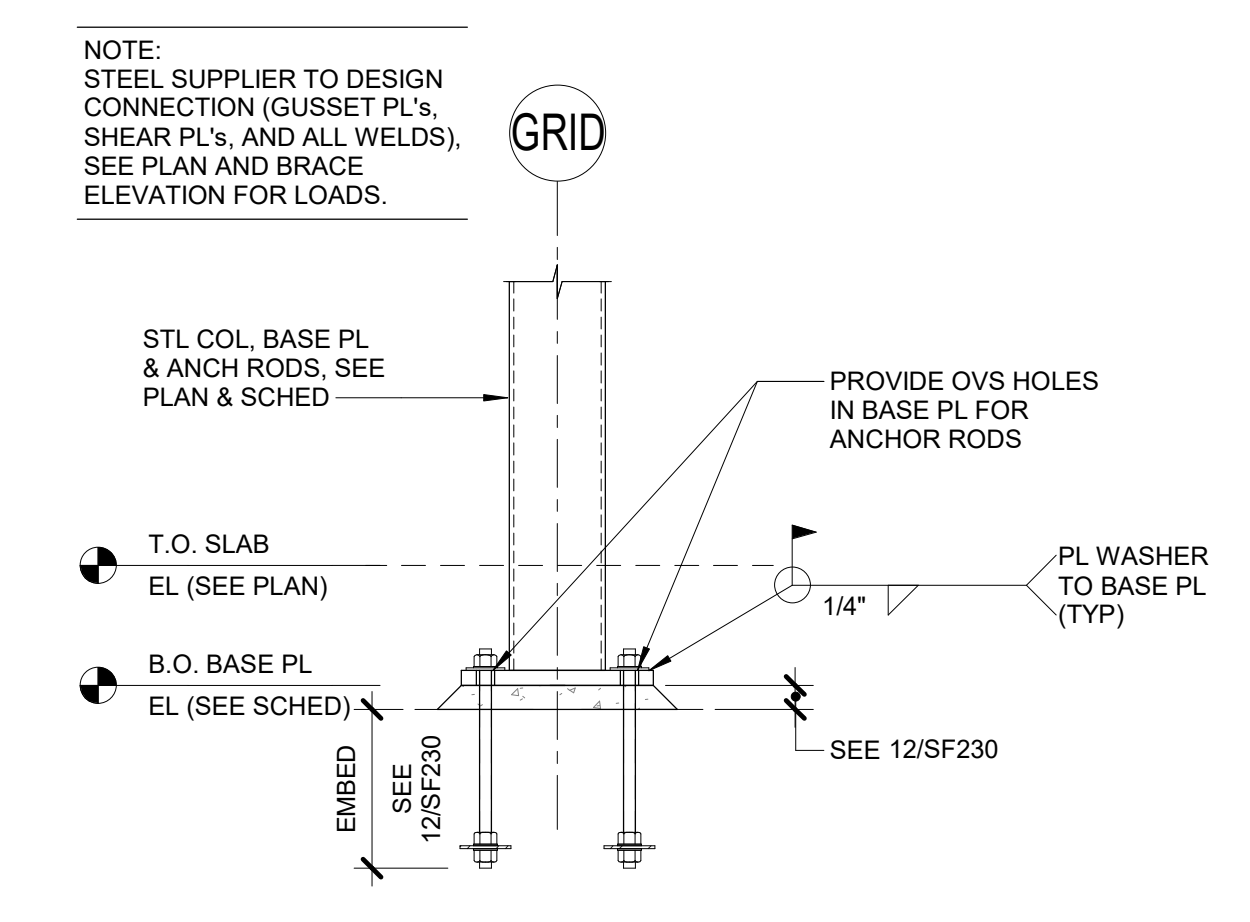


6 BRACE FRAME ELEVATION
1/2" = 1'-0"

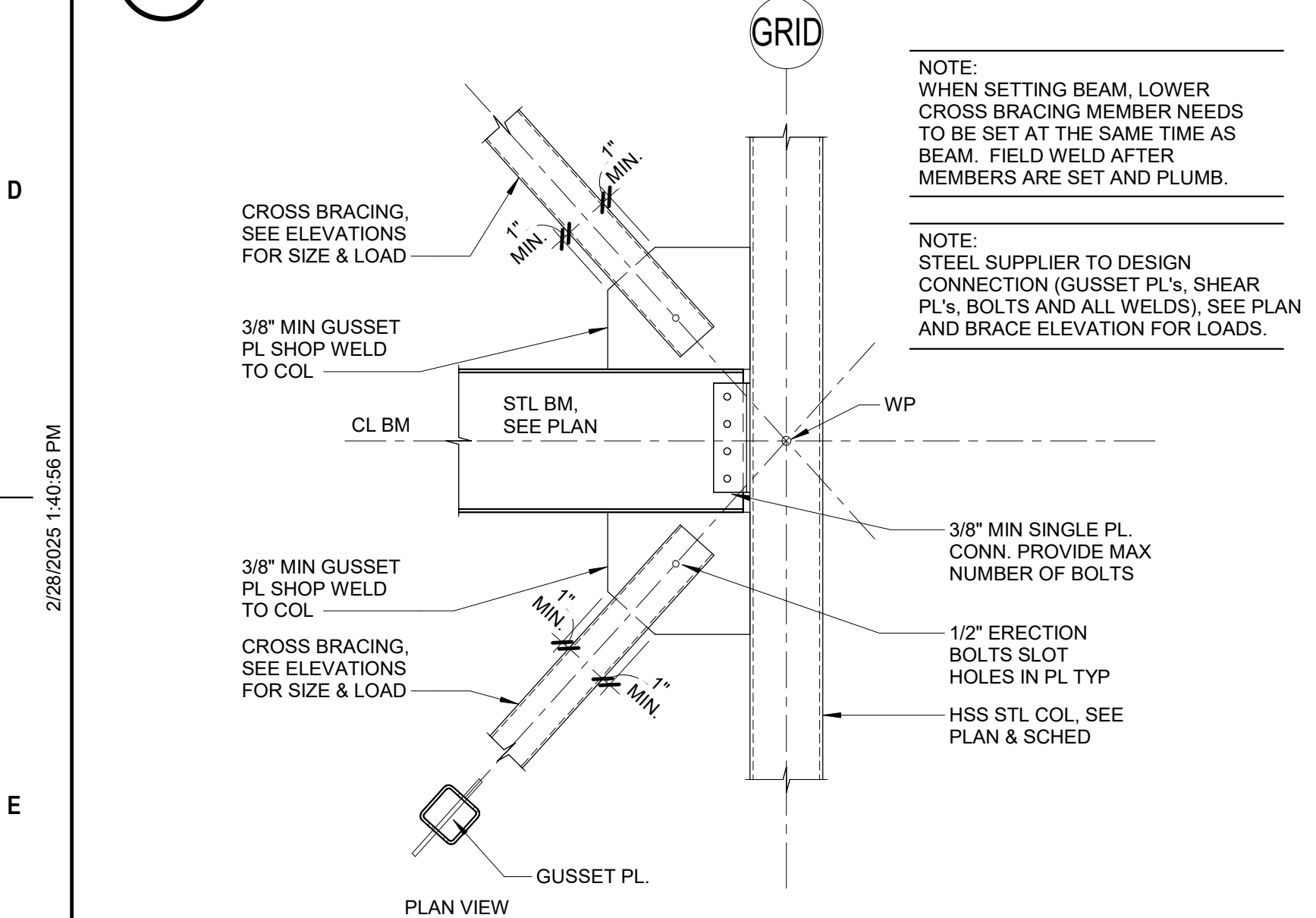
7 BRACE FRAME ELEVATION
1/2" = 1'-0"



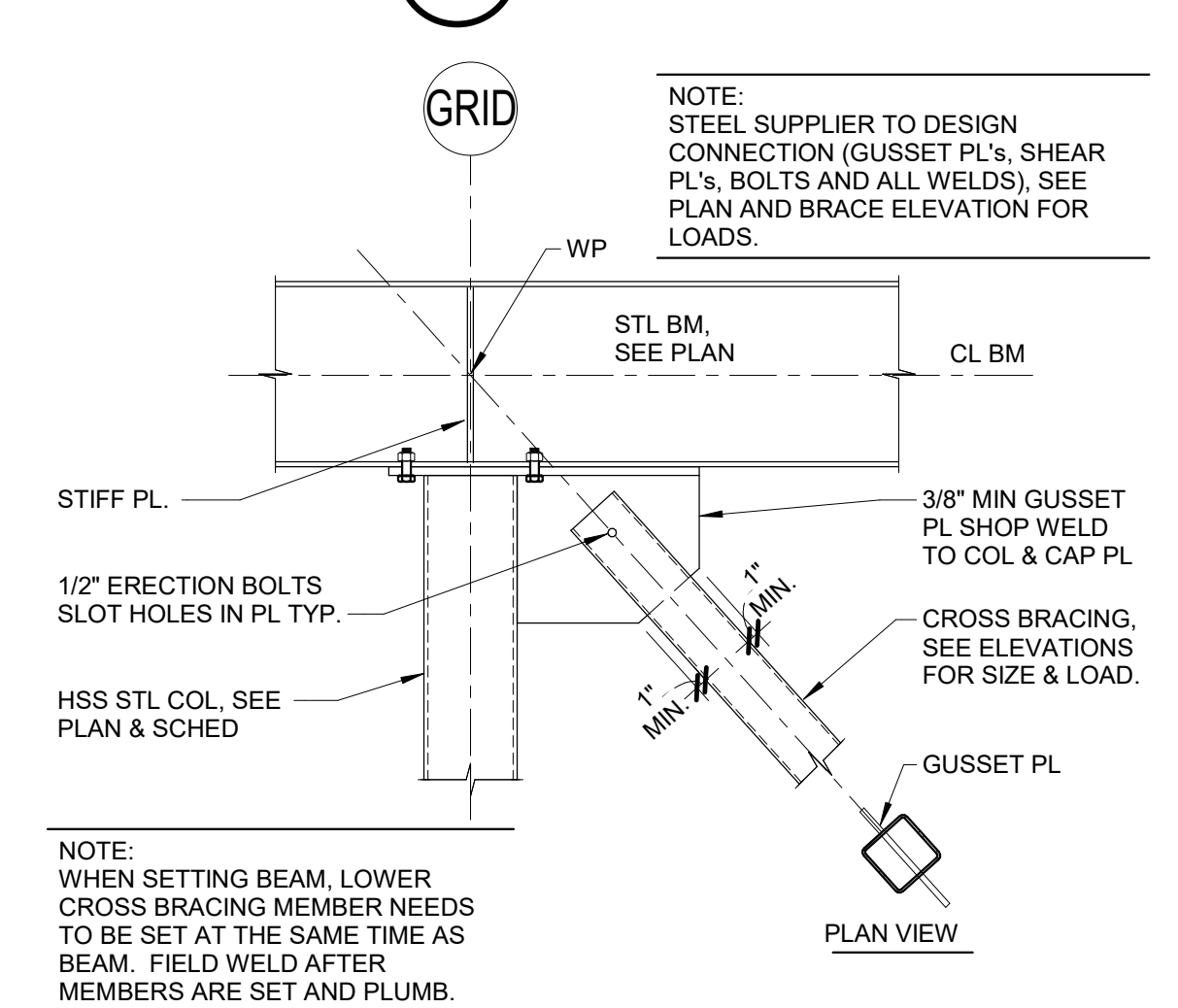
8 BRACE FRAME BASE PLATE
3/4" = 1'-0"



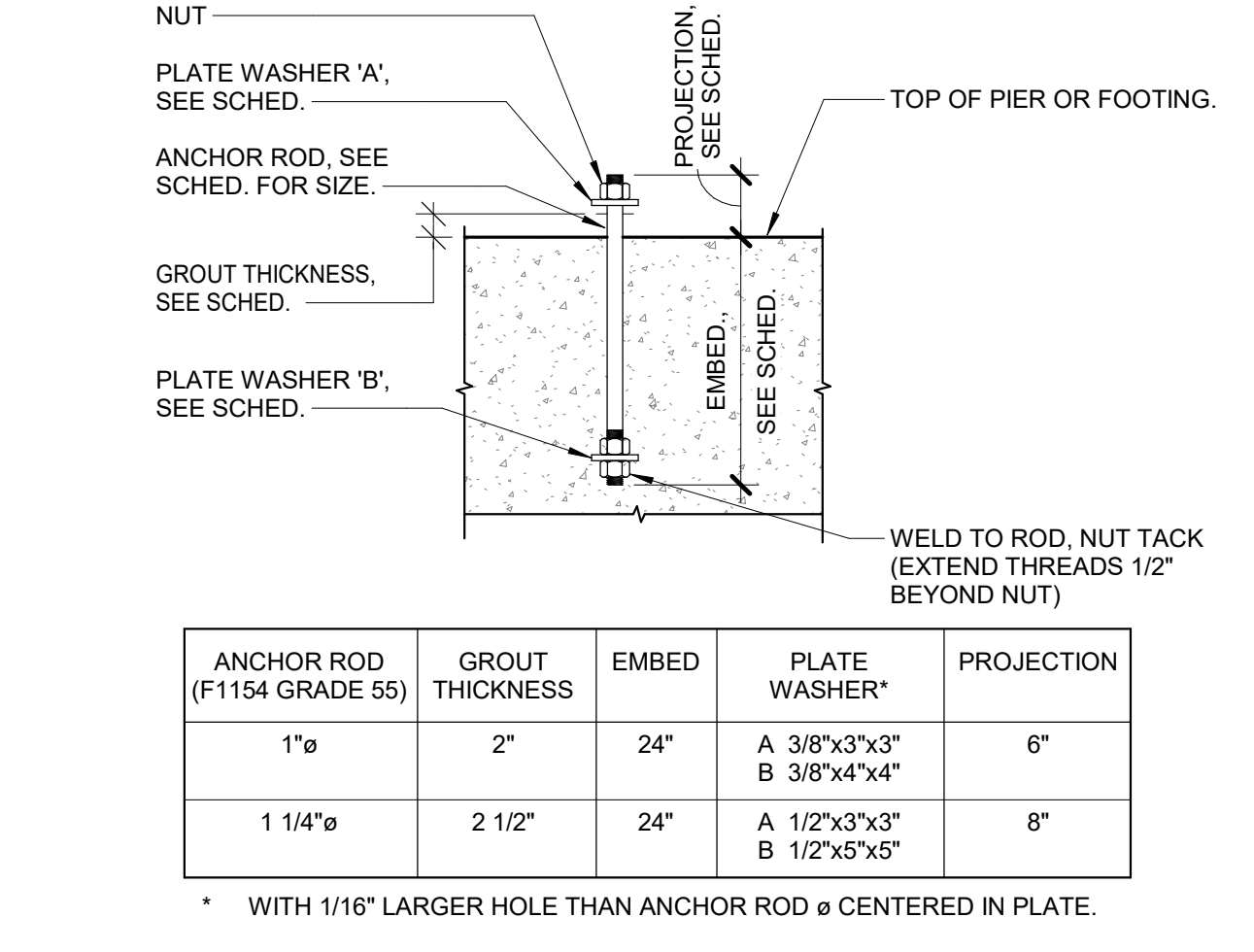
9 MOMENT FRAME BASE PLATE
3/4" = 1'-0"



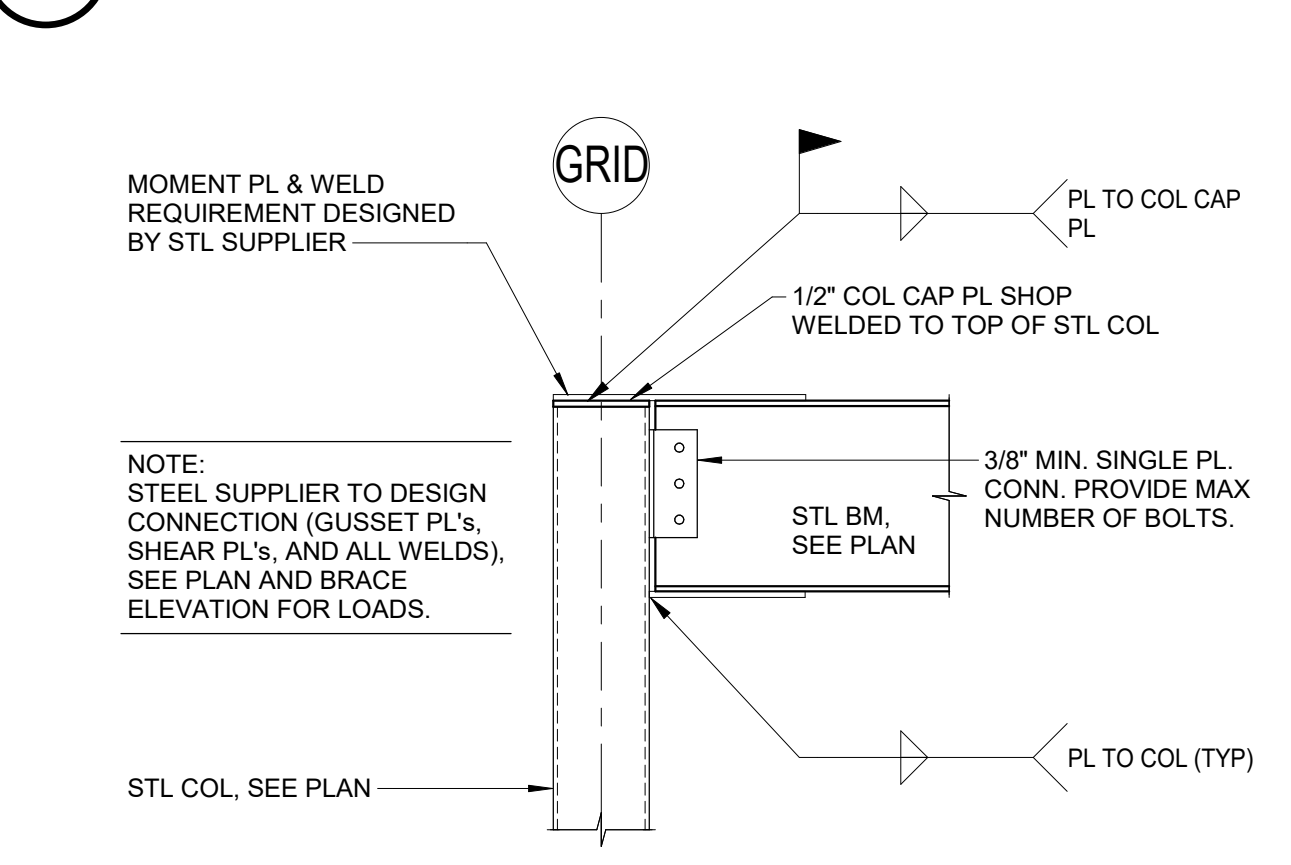
10 STL BRACE FRAME CONNECTION
3/4" = 1'-0"



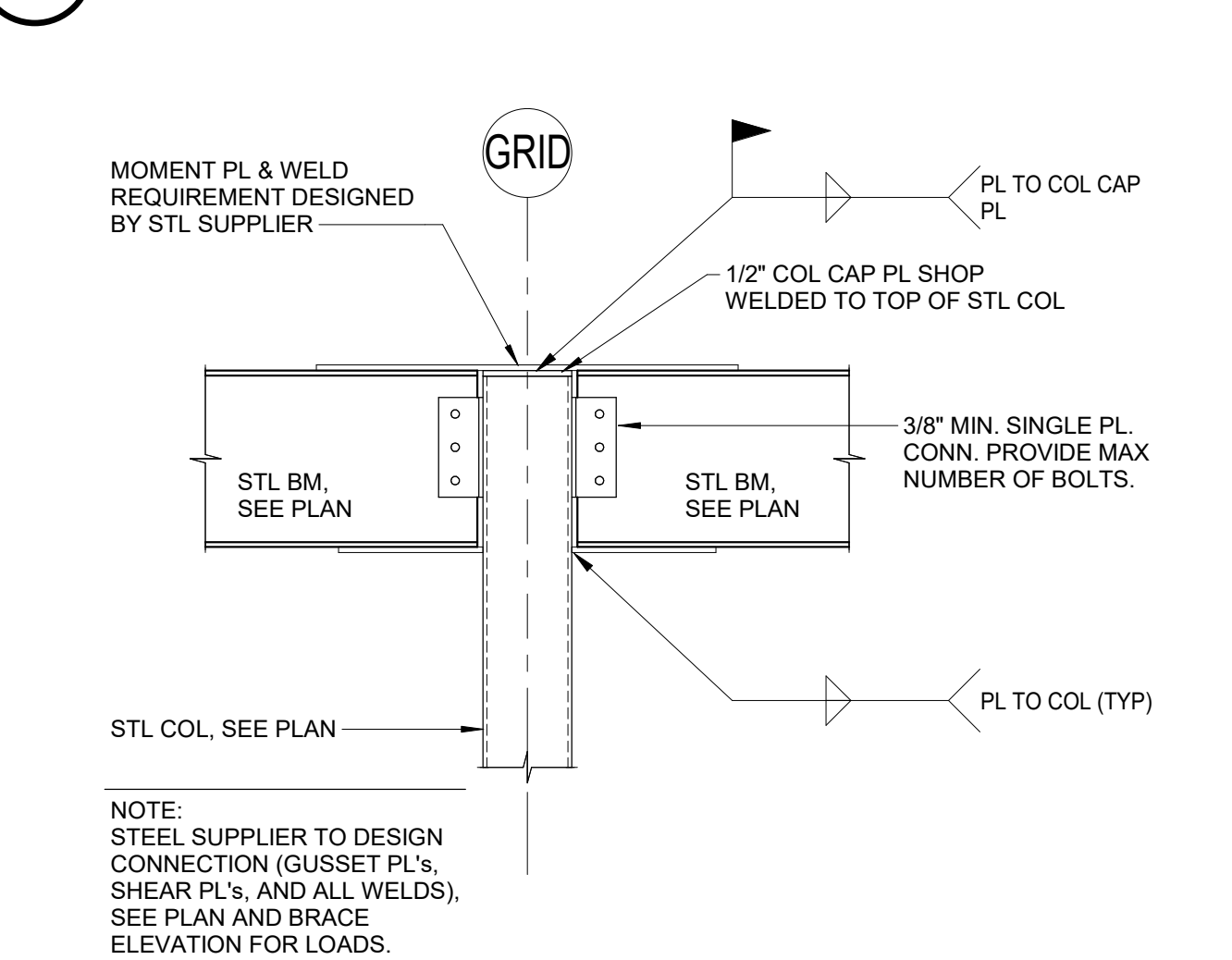
11 STL BRACE FRAME CONNECTION
3/4" = 1'-0"



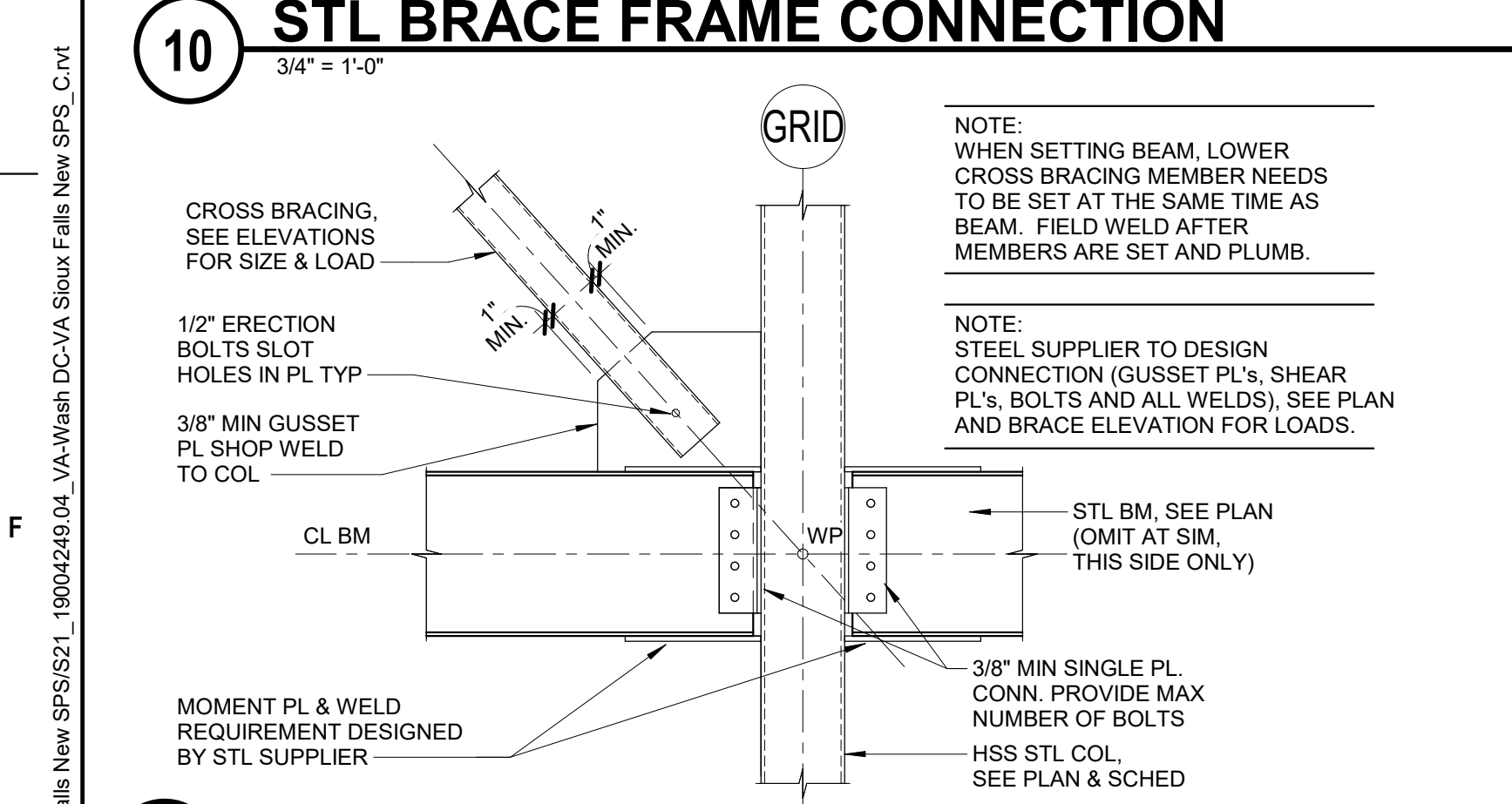
12 TYP ANCHOR ROD DETAIL AT BRACED/MOMENT FRAMES
1/2" = 1'-0"



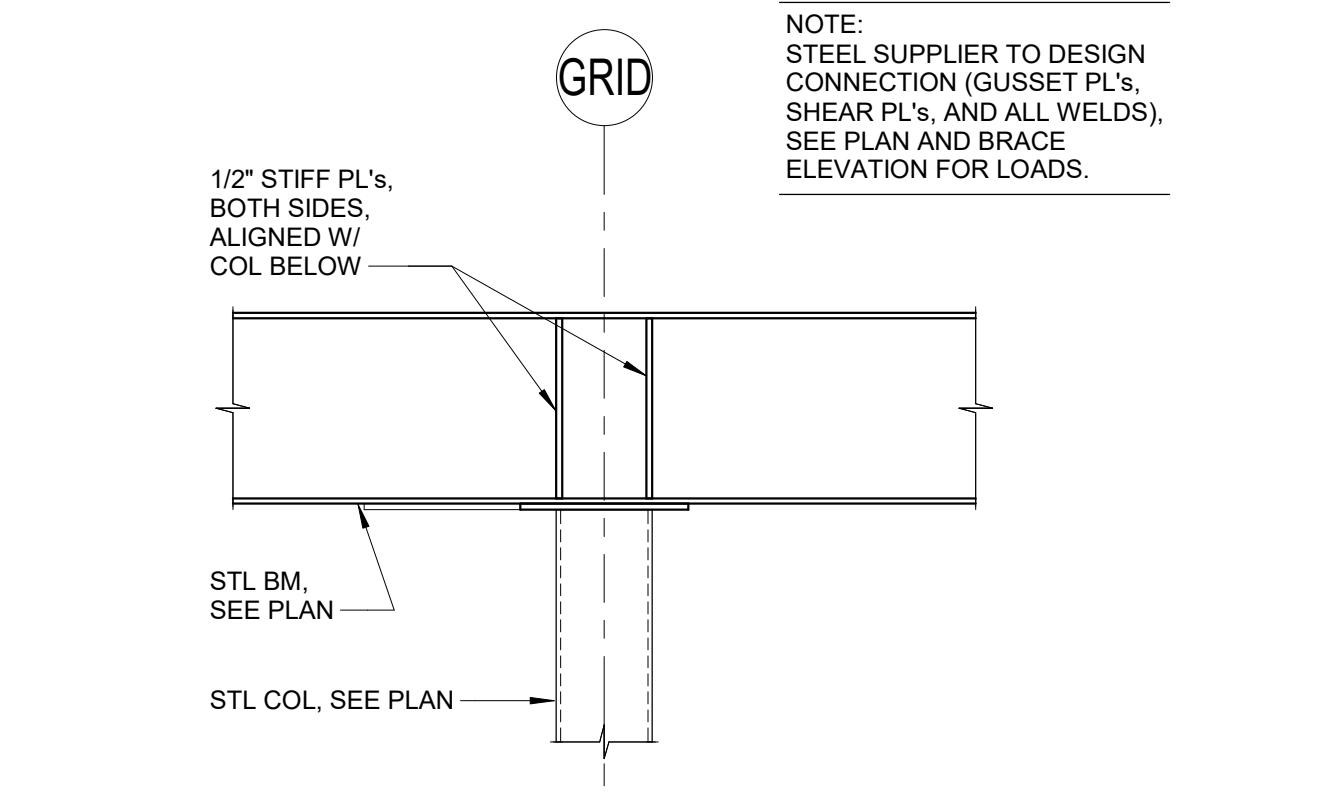
13 MOMENT FRAME SECTION
3/4" = 1'-0"



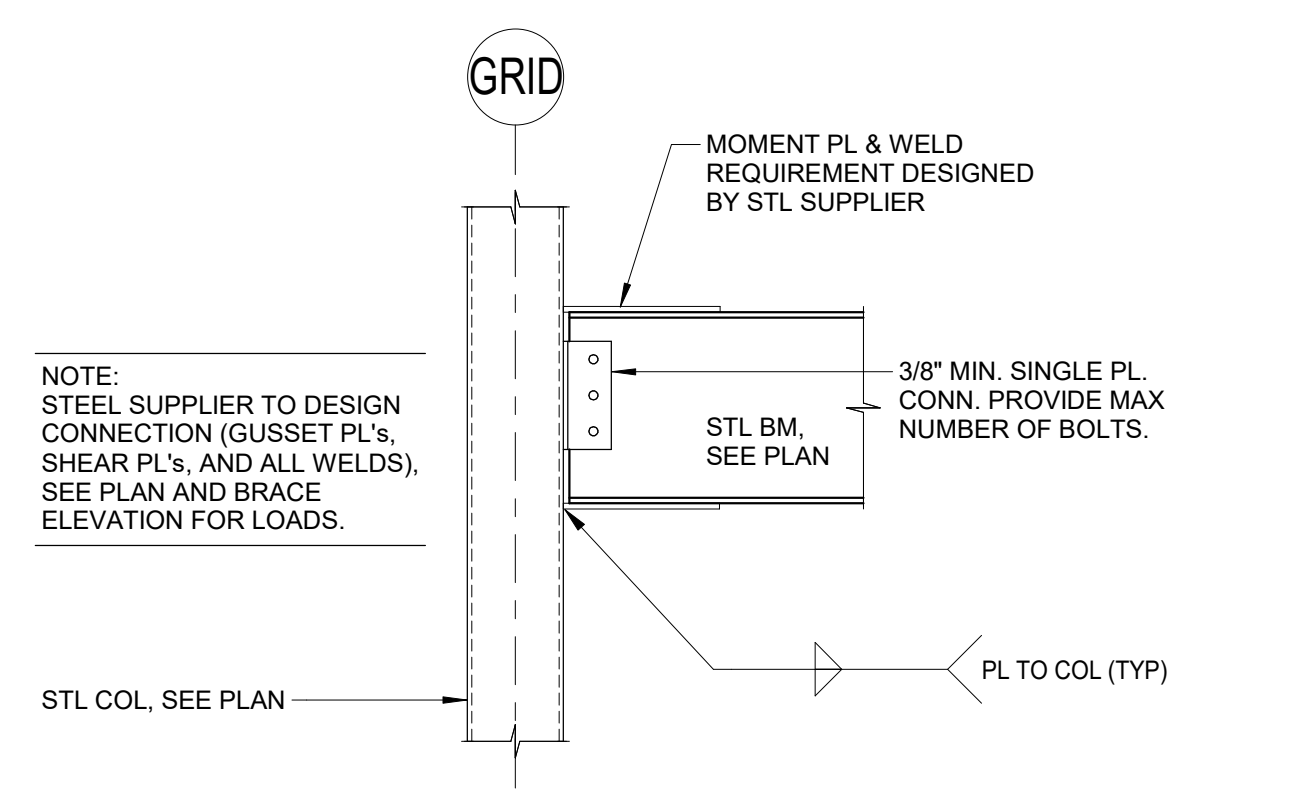
14 MOMENT FRAME SECTION
3/4" = 1'-0"



15 STL BRACE FRAME CONNECTION
3/4" = 1'-0"



16 MOMENT FRAME SECTION
3/4" = 1'-0"



17 MOMENT FRAME SECTION
3/4" = 1'-0"

ANCHOR ROD (F1154 GRADE 55)	GROUT THICKNESS	EMBED	PLATE WASHER*	PROJECTION
1"	2"	24"	A 3/8"x3"x3" B 3/8"x4"x4"	6"
1 1/4"	2 1/2"	24"	A 1/2"x3"x3" B 1/2"x5"x5"	8"

* WITH 1/16" LARGER HOLE THAN ANCHOR ROD Ø CENTERED IN PLATE.

Revisions:

Date: _____

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MICHAEL P.
MEMPHR
2-14-2025

Office of
Construction
and Facilities
Management

VA U.S. Department
of Veterans
Affairs

Drawing Title
BRACE FRAME ELEVATIONS & SECTIONS

Approved: _____

Phase
BID DOCUMENTS

FULLY SPRINKLERED

Project Title
CONSTRUCT NEW SPS

Location
Sioux Falls, SD.

Issue Date
02/14/2025

Checked
MPM/TGL

Drawn
MAQ

Project Number
438-460

Building Number
5

Drawing Number
SF230