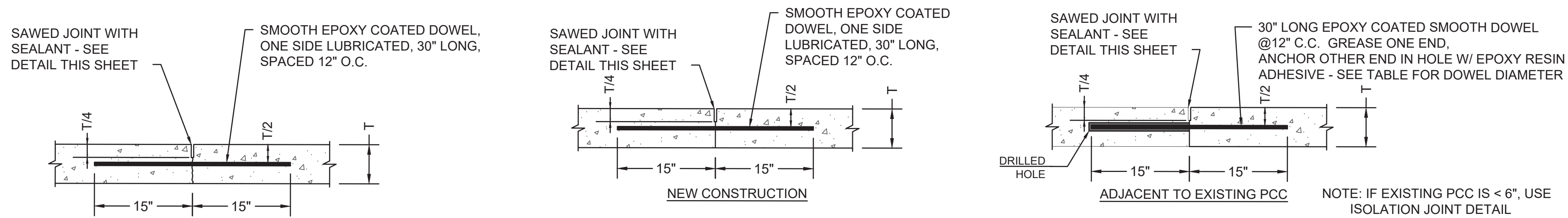
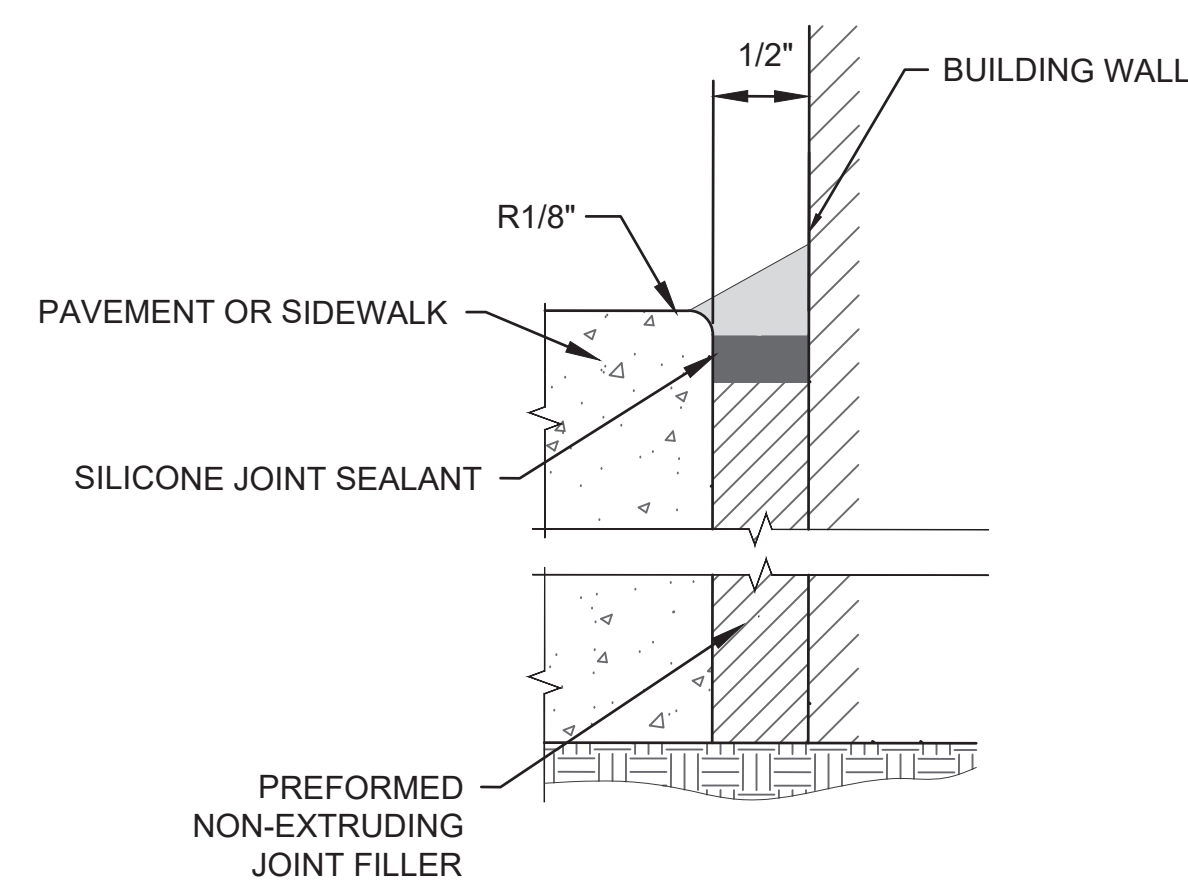
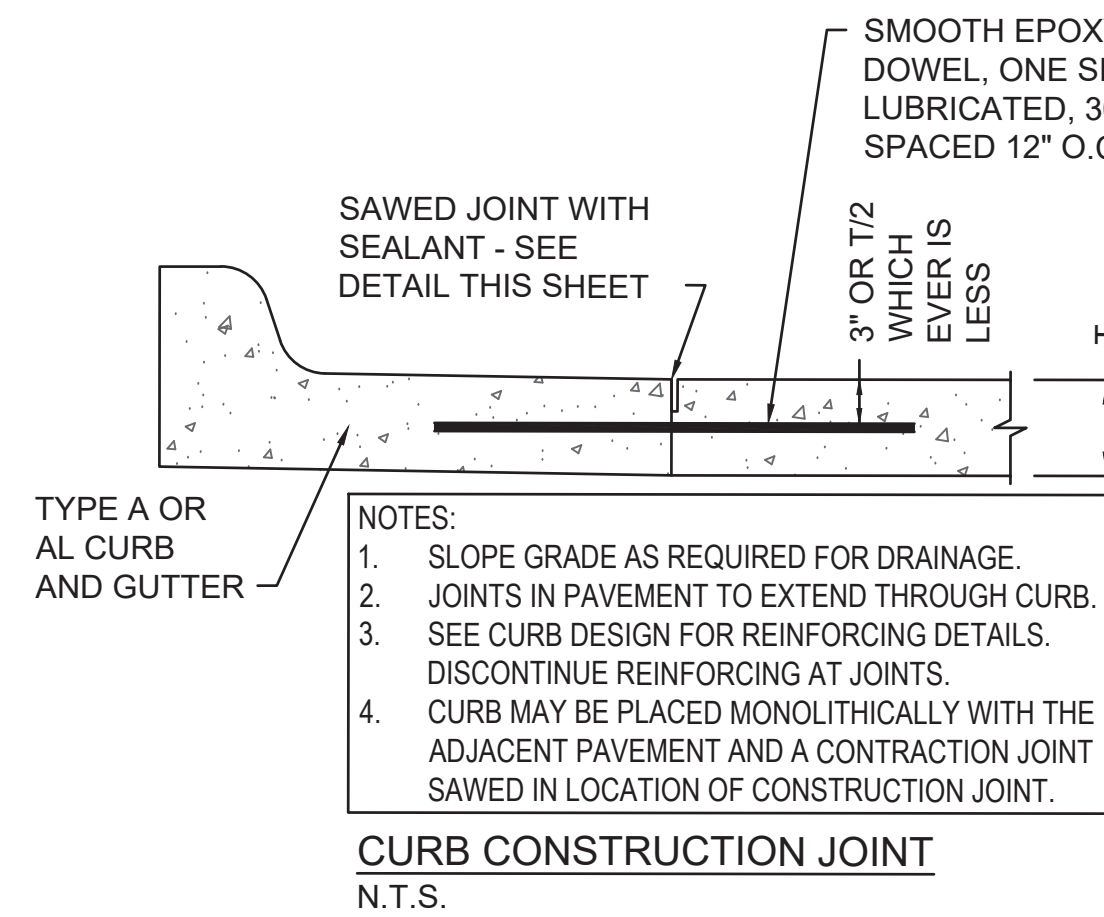
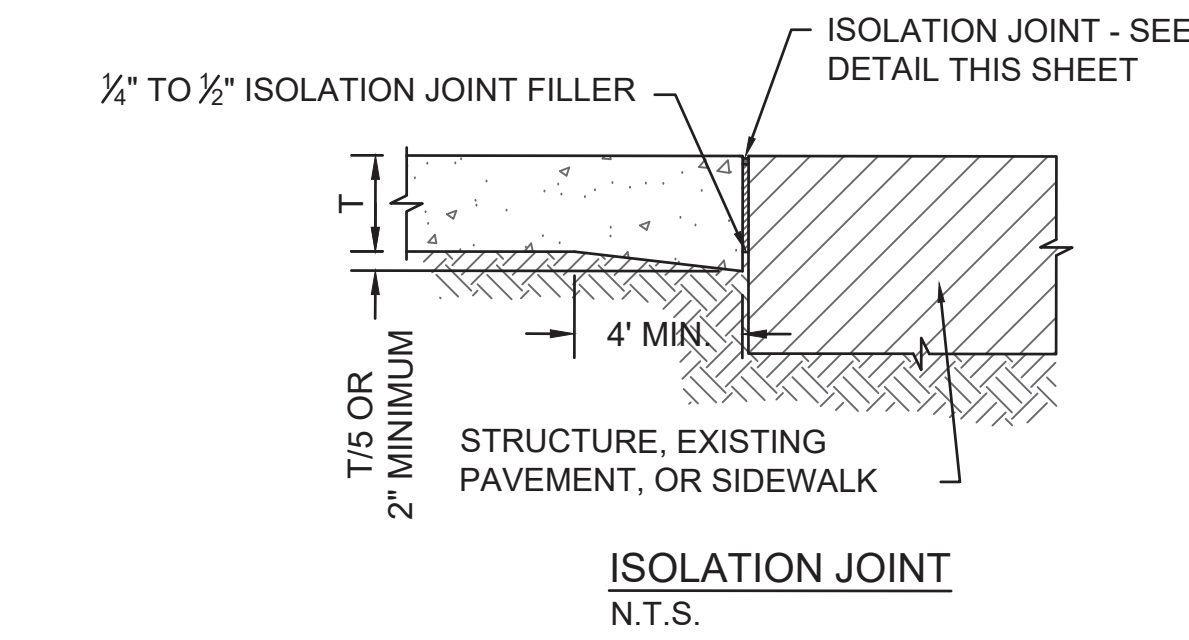
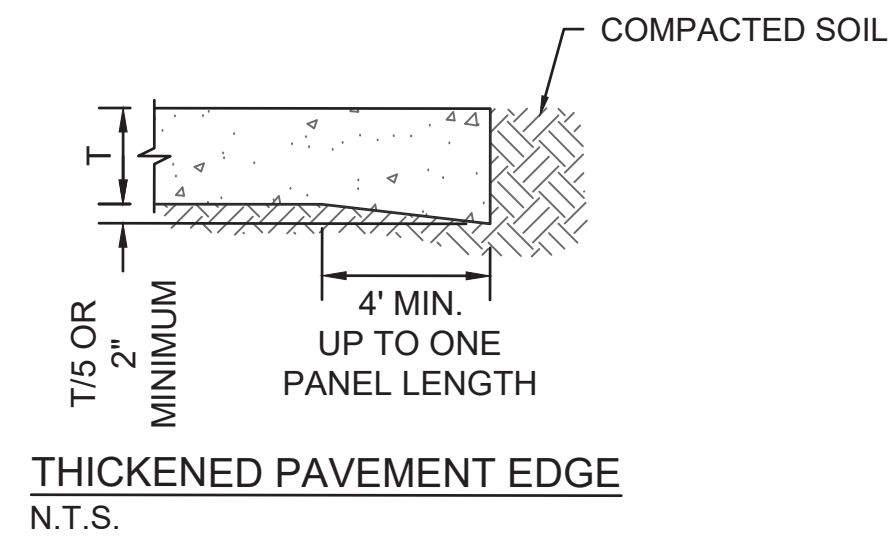


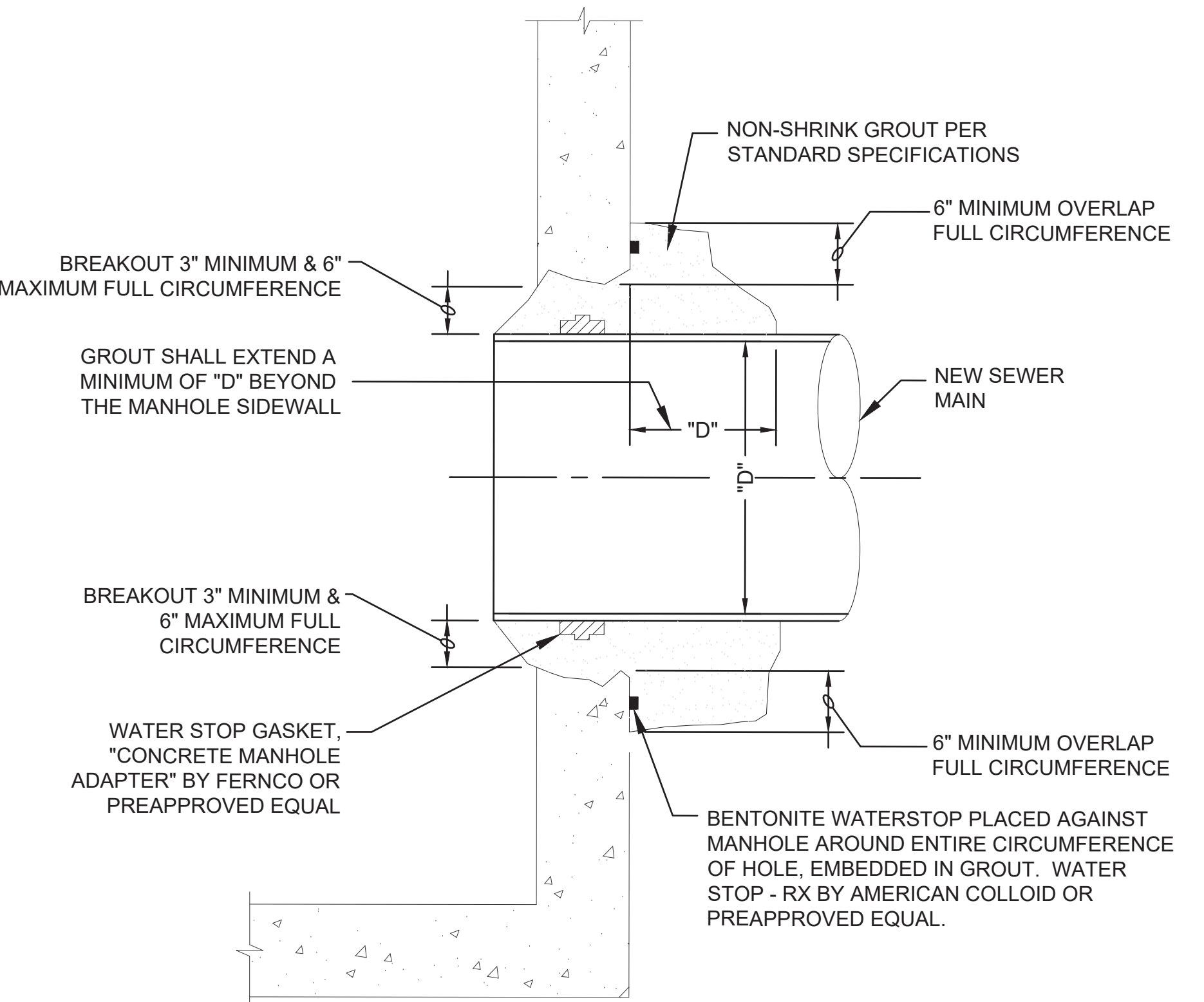
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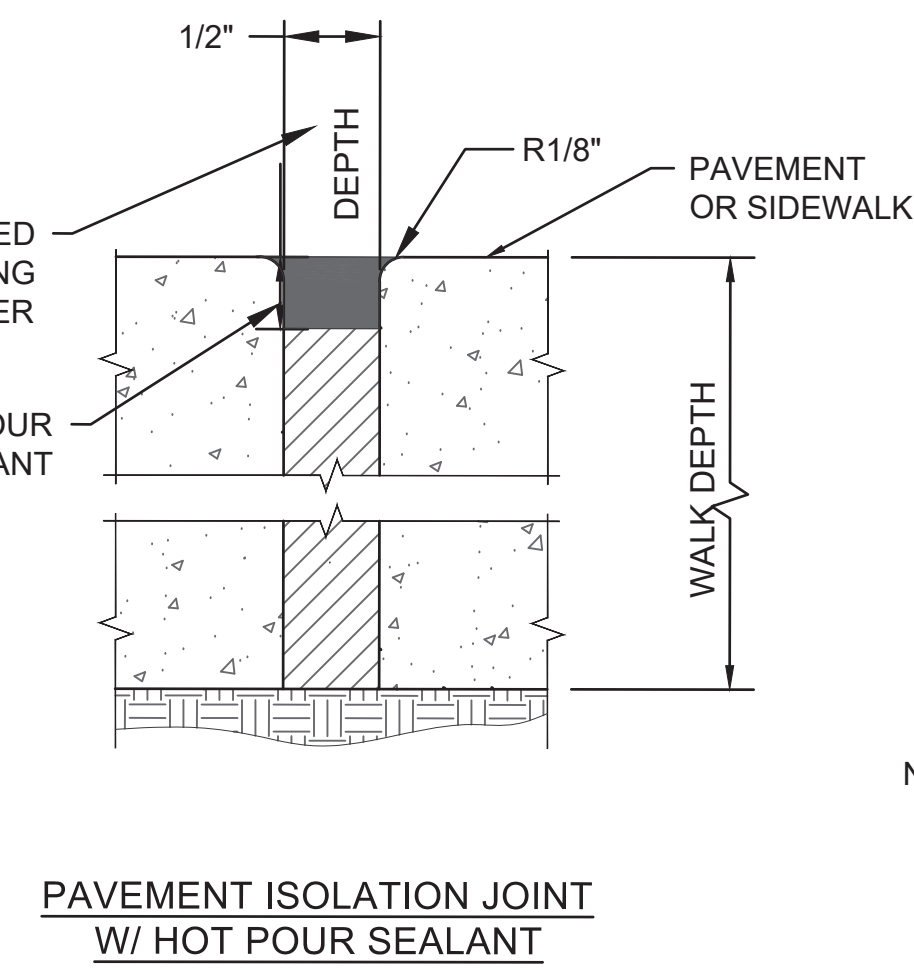
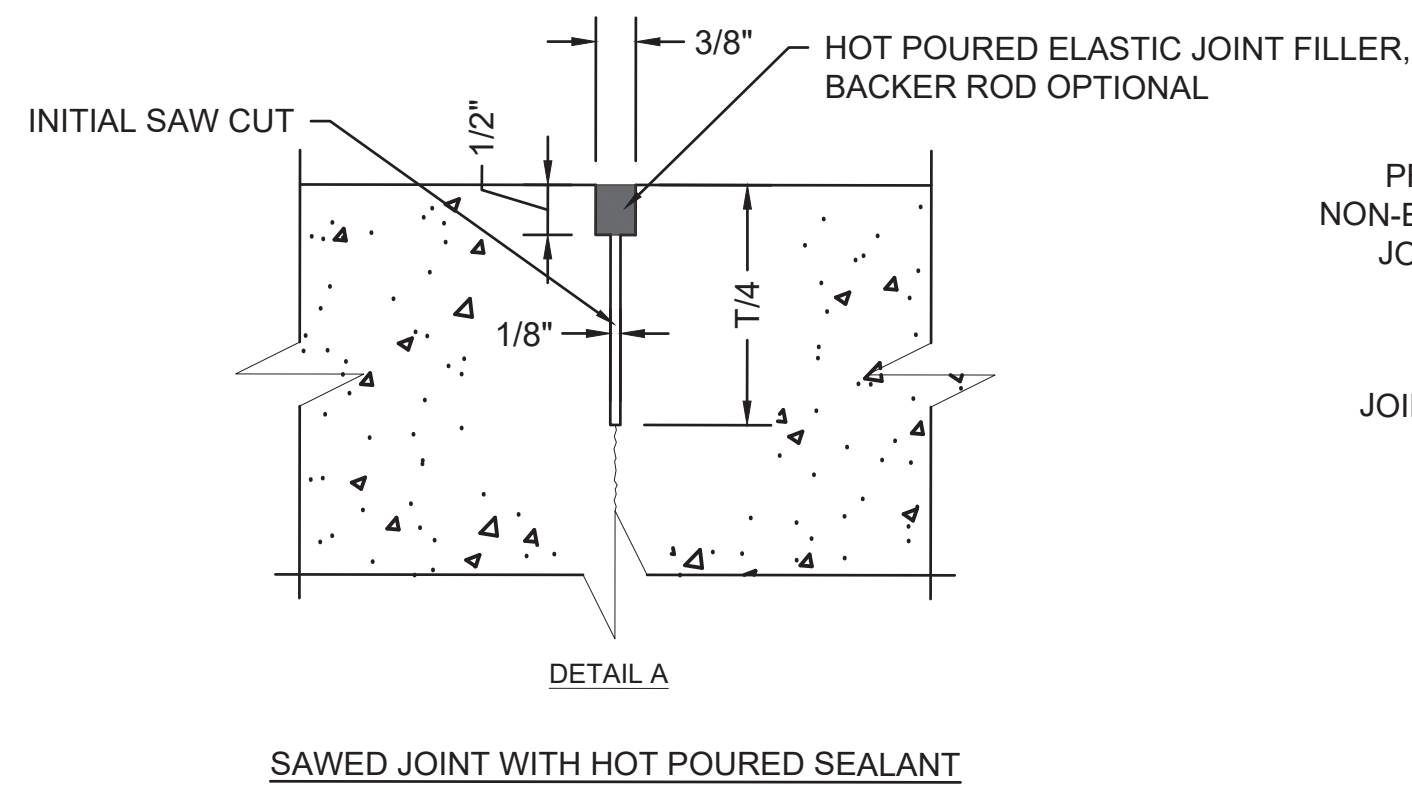
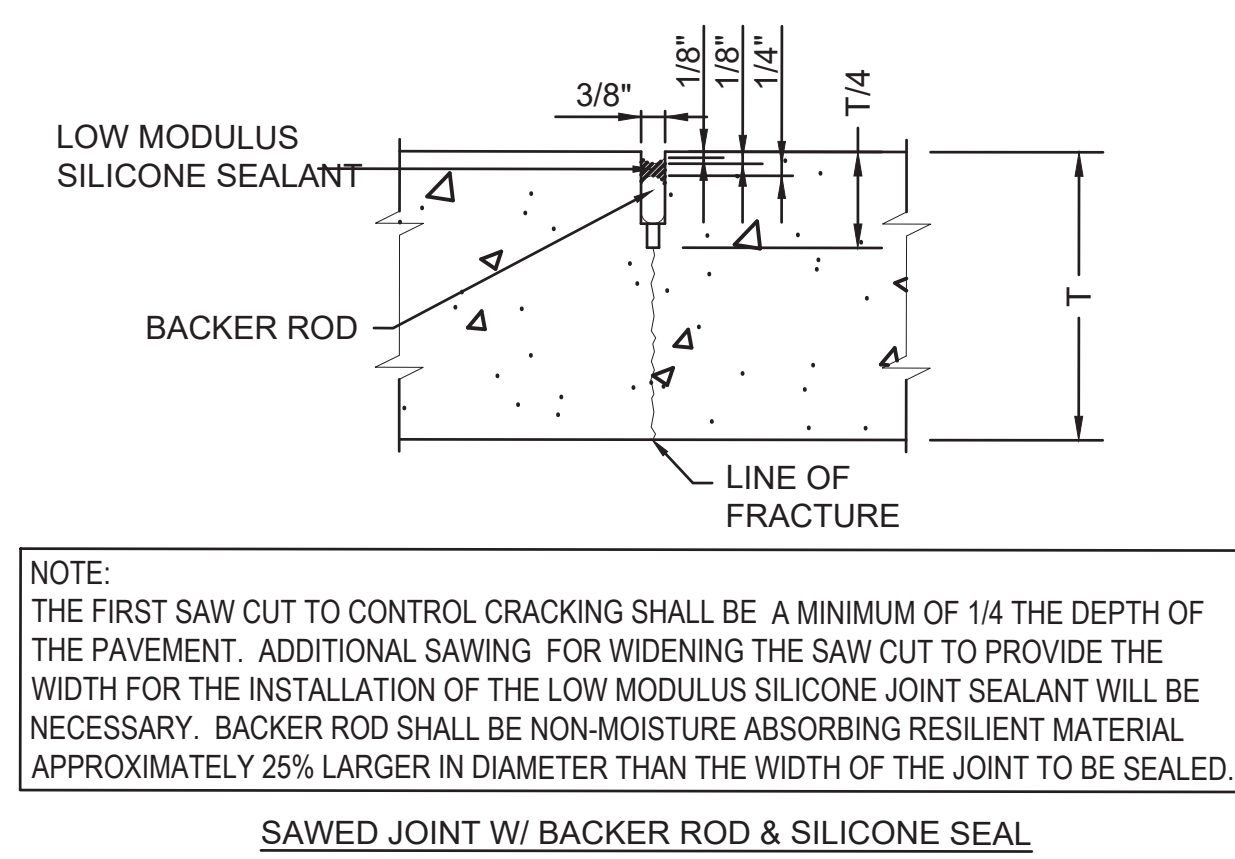
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2 STANDARD PIPE TRENCH DETAIL  
SCALE: NTS



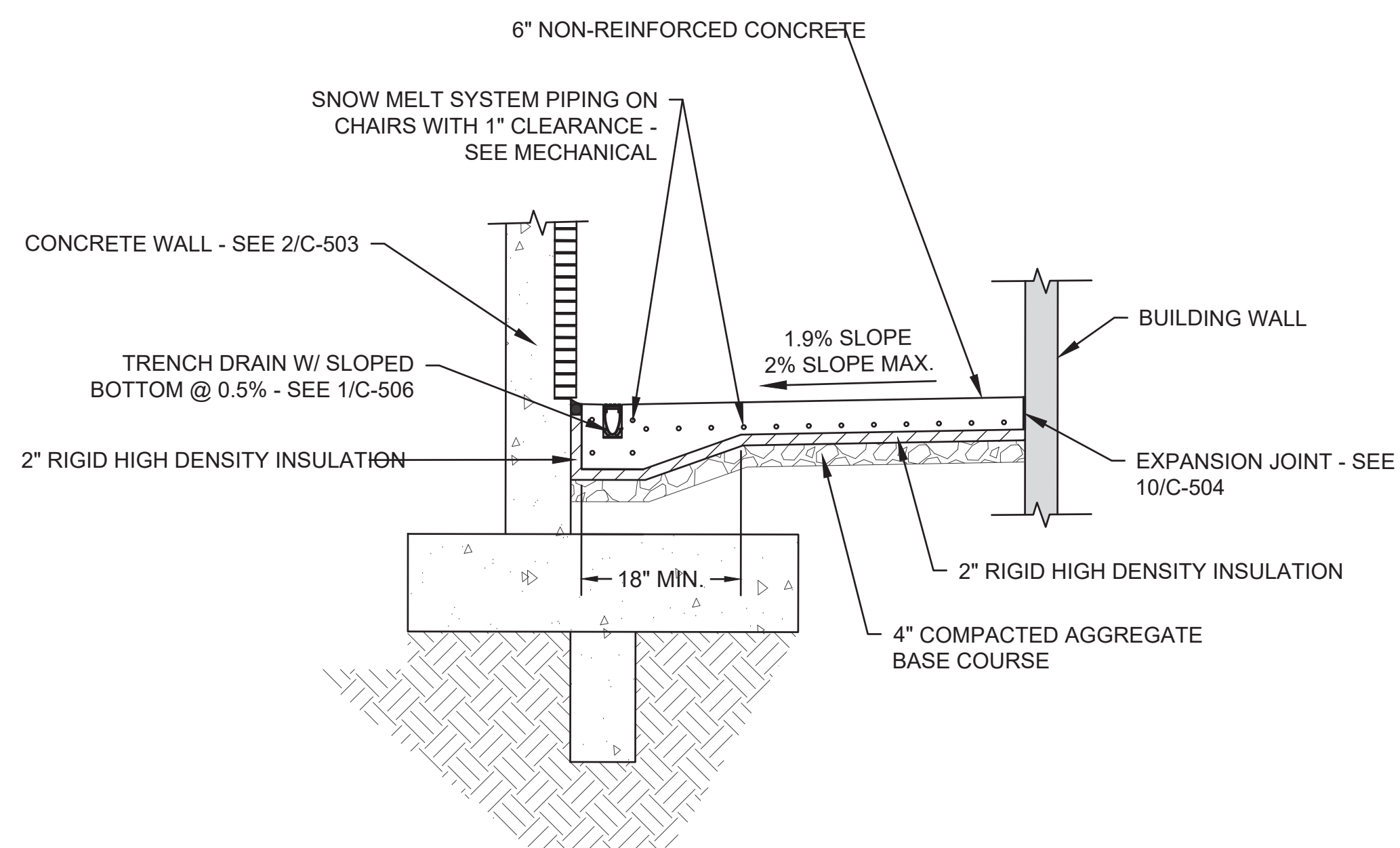
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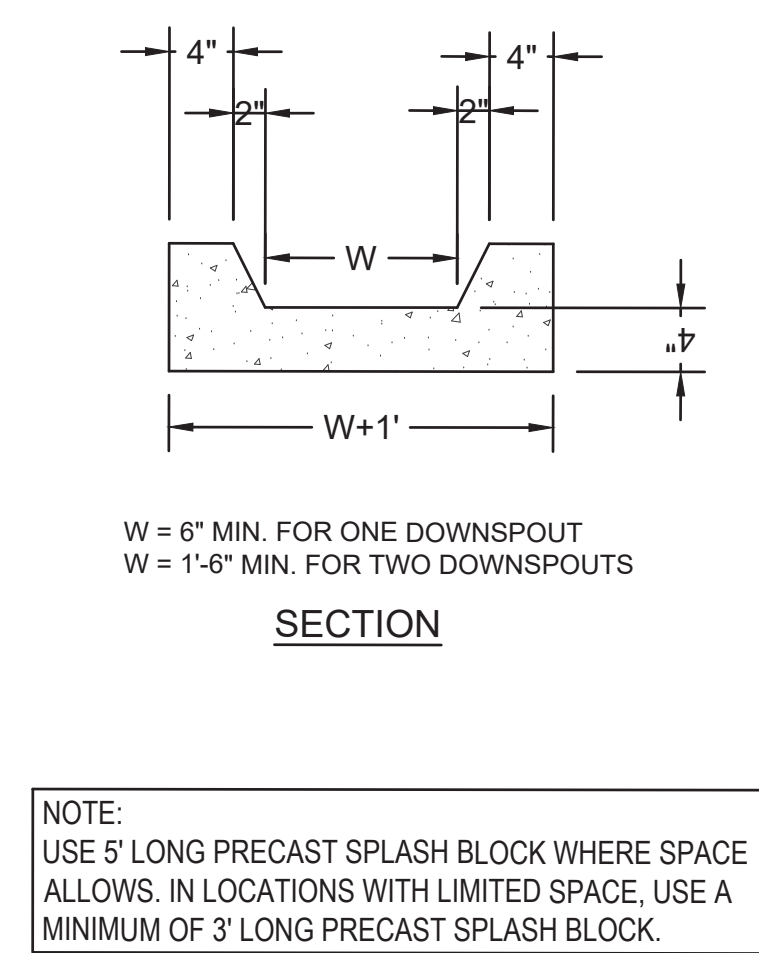
SIDEWALK OR PAVEMENT ISOLATION JOINT DETAILS N.T.S.

1 JOINT DETAILS  
SCALE: NTS

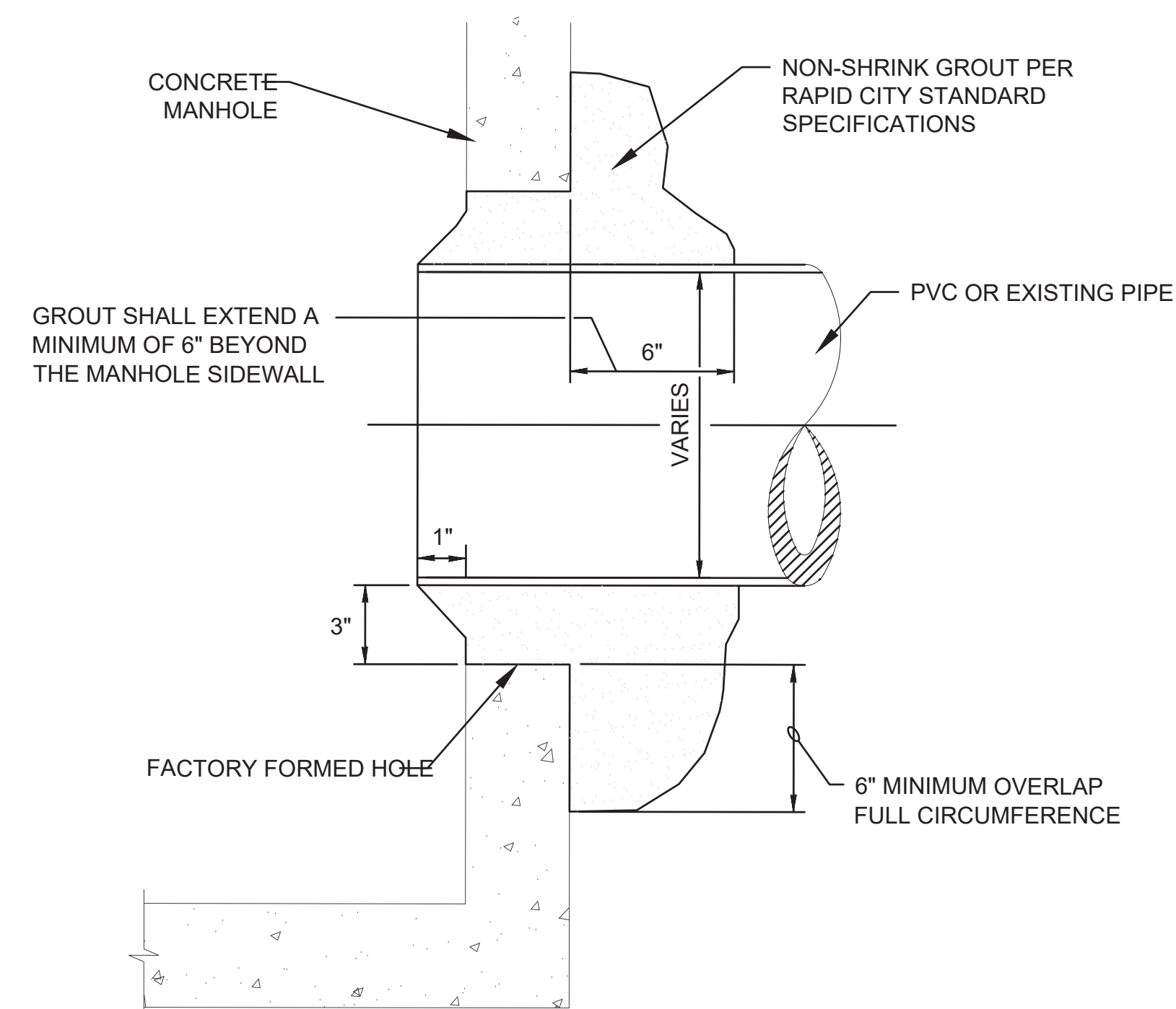
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4 HEATED SIDEWALK DETAIL  
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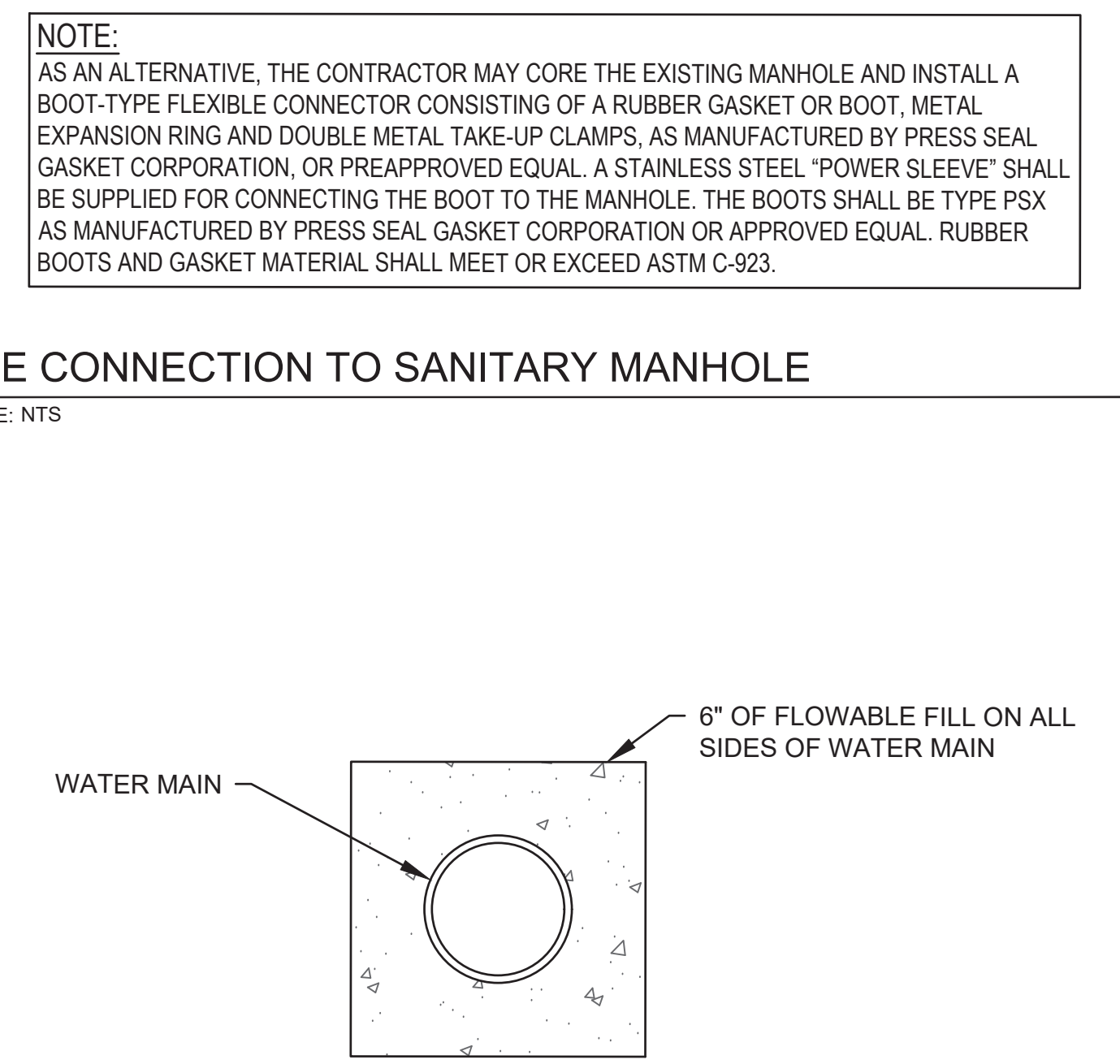


5 PRECAST SPLASH BLOCK  
SCALE: NTS



6 PIPE CONNECTION TO STORM MANHOLE  
SCALE: NTS

3 PIPE CONNECTION TO SANITARY MANHOLE  
SCALE: NTS



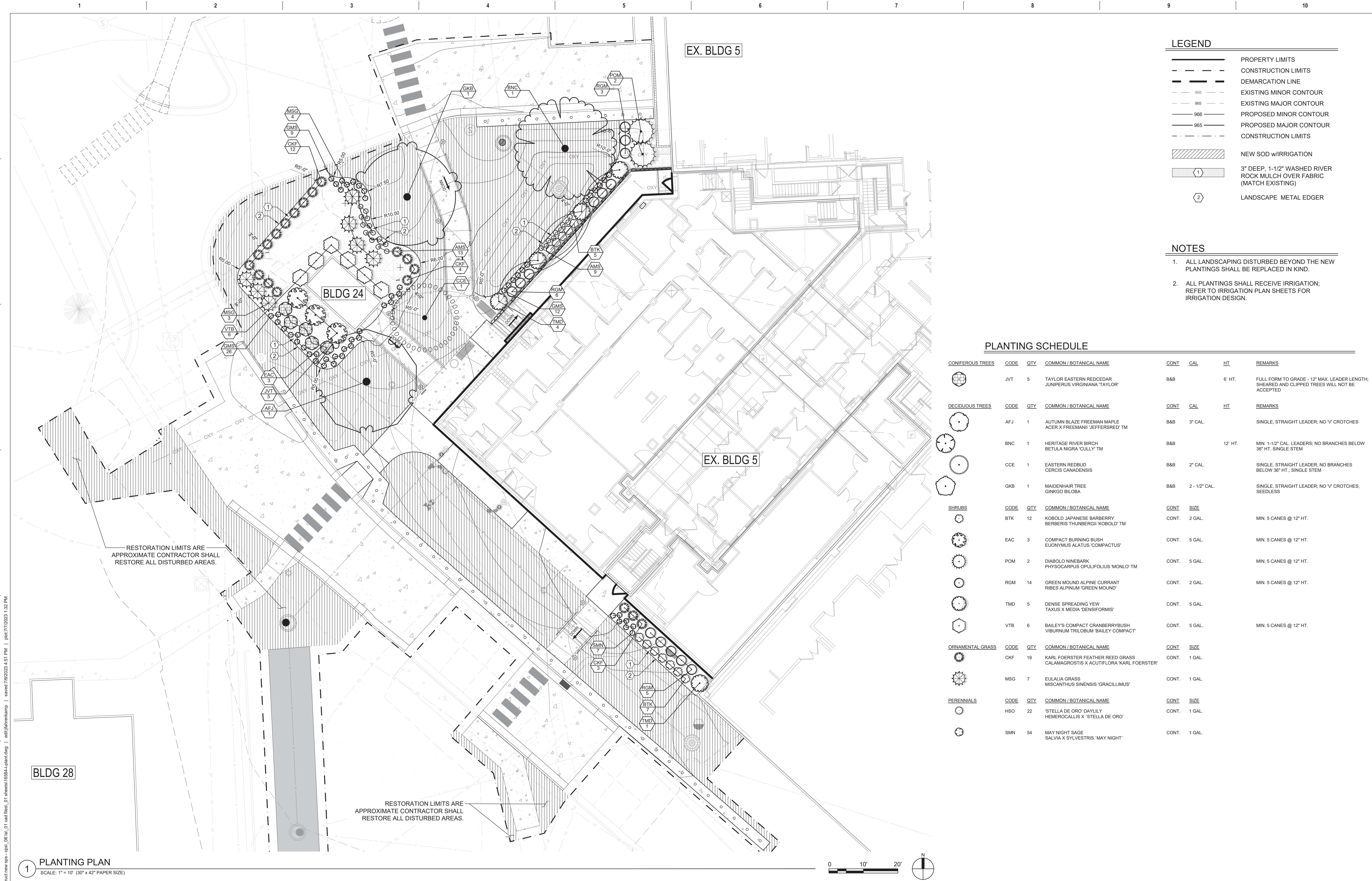
7 ENCASEMENT DETAIL  
SCALE: NTS

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Revisions:	Date:

CONSULTANTS	ARCHITECT/ENGINEER OF RECORD		STAMP	Office of Construction and Facilities Management	Drawing Title	Phase	Project Title	Project Number
IMEG	ANDERSON		I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA	VA	SIoux FALLS VA HEALTH CARE SYSTEM	BID DOCUMENTS	CONSTRUCT NEW SPS	438-460
ECdesign	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		EDWIN J. BROADMARKLE, PE DATE: 2022.08.04 LICENSE NO: 55409	U.S. Department of Veterans Affairs	Approved: Project Director	FULLY SPRINKLERED	Location SIOUX FALLS, SOUTH DAKOTA	Building Number 5
Issue Date 08/04/2022	Checked EB	Drawn AB	Drawing Number C-507					





LEGEND	
	PROPERTY LIMITS
	CONSTRUCTION LIMITS
	DEMARCATION LINE
	EXISTING MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	CONSTRUCTION LIMITS
	NEW SOD w/IRRIGATION
	3" DEEP, 1-1/2" WASHED RIVER ROCK MULCH OVER FABRIC (MATCH EXISTING)
	LANDSCAPE METAL EDGER

- NOTES
- ALL LANDSCAPING DISTURBED BEYOND THE NEW PLANTINGS SHALL BE REPLACED IN KIND.
  - ALL PLANTINGS SHALL RECEIVE IRRIGATION; REFER TO IRRIGATION PLAN SHEETS FOR IRRIGATION DESIGN.

PLANTING SCHEDULE

CONIFEROUS TREES	CODE	QTY	COMMON / BOTANICAL NAME	CONT	CAL	HT	REMARKS
	JVT	5	TAYLOR EASTERN REDCEDAR JUNIPERUS VIRGINIANA 'TAYLOR'	B&B		6' HT.	FULL FORM TO GRADE - 12" MAX. LEADER LENGTH; SHEARED AND CLIPPED TREES WILL NOT BE ACCEPTED
DECIDUOUS TREES	CODE	QTY	COMMON / BOTANICAL NAME	CONT	CAL	HT	REMARKS
	AFJ	1	AUTUMN BLAZE FREEMAN MAPLE ACER X FREEMANII 'JEFFERSRED' TM	B&B		3" CAL.	SINGLE, STRAIGHT LEADER; NO 'V' CROTCHES
	BNC	1	HERITAGE RIVER BIRCH BETULA NIGRA 'CULLY' TM	B&B		12' HT.	MIN. 1-1/2" CAL. LEADERS; NO BRANCHES BELOW 36" HT. SINGLE STEM
	CCE	1	EASTERN REDBUD CERCIS CANADENSIS	B&B		2" CAL.	SINGLE, STRAIGHT LEADER; NO BRANCHES BELOW 36" HT., SINGLE STEM
	GKB	1	MAIDENHAIR TREE GINKGO BILOBA	B&B		2 - 1/2" CAL.	SINGLE, STRAIGHT LEADER; NO 'V' CROTCHES; SEEDLESS
SHRUBS	CODE	QTY	COMMON / BOTANICAL NAME	CONT	SIZE		
	BTK	12	KOBOLD JAPANESE BARBERRY BERBERIS THUNBERGII 'KOBOLD' TM	CONT.	2 GAL.		MIN. 5 CANES @ 12" HT.
	EAC	3	COMPACT BURNING BUSH EUONYMUS ALATUS 'COMPACTUS'	CONT.	5 GAL.		MIN. 5 CANES @ 12" HT.
	POM	2	DIABOLO NINEBARK PHYSCARPUS OPULIFOLIUS 'MONLO' TM	CONT.	5 GAL.		MIN. 5 CANES @ 12" HT.
	RGM	14	GREEN MOUND ALPINE CURRANT RIBES ALPINUM 'GREEN MOUND'	CONT.	2 GAL.		MIN. 5 CANES @ 12" HT.
	TMD	5	DENSE SPREADING YEW TAXUS X MEDIA 'DENSIFORMIS'	CONT.	5 GAL.		
	VTB	6	BAILEY'S COMPACT CRANBERRYBUSH VIBURNUM TRILOBUM 'BAILEY COMPACT'	CONT.	5 GAL.		MIN. 5 CANES @ 12" HT.
ORNAMENTAL GRASS	CODE	QTY	COMMON / BOTANICAL NAME	CONT	SIZE		
	CKF	19	KARL FOERSTER FEATHER REED GRASS CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	CONT.	1 GAL.		
	MSG	7	EULALIA GRASS MISCANTHUS SINENSIS 'GRACILLIMUS'	CONT.	1 GAL.		
PERENNIALS	CODE	QTY	COMMON / BOTANICAL NAME	CONT	SIZE		
	HSO	22	'STELLA DE ORO' DAYLILY HEMEROCALLIS X 'STELLA DE ORO'	CONT.	1 GAL.		
	SMN	54	MAY NIGHT SAGE SALVIA X SYLVESTRIS 'MAY NIGHT'	CONT.	1 GAL.		

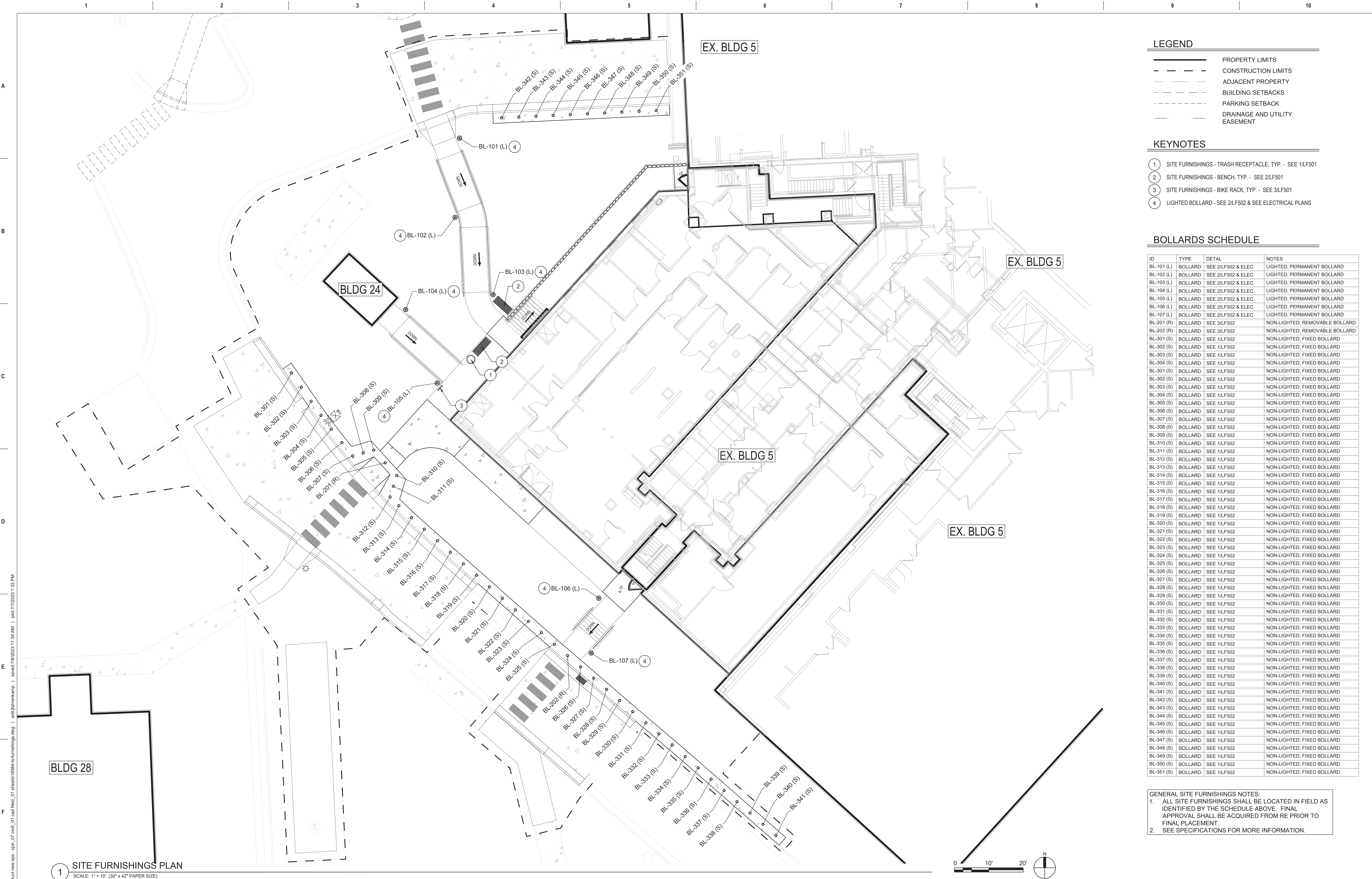
1 PLANTING PLAN  
SCALE: 1" = 10' (30" x 42" PAPER SIZE)

CONSULTANTS		ARCHITECT/ENGINEER OF RECORD		STAMP		Office of Construction and Facilities Management		Drawing Title		Phase		Project Title		Project Number	
IMEG ECdesign		ANDERSON				VA U.S. Department of Veterans Affairs		PLANTING PLAN		BID DOCUMENTS		CONSTRUCT NEW SPS		438-460	
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								Approved: Project Director		FULLY SPRINKLERED		Location		Building Number	
								SIoux FALLS VA HEALTH CARE SYSTEM				SIoux FALLS, SOUTH DAKOTA		5	
Revisions:		Date:										Issue Date		Checked	
												08/04/2022		CC	
												Drawn		JF	
														Drawing Number	
														LP101	









1



SITE FURNISHINGS PLAN

SCALE: 1" = 10' (30" x 42" PAPER SIZE)


Revisions:

Date:

CONSULTANTS




ARCHITECT/ENGINEER OF RECORD




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STAMP



Office of Construction and Facilities Management

 U.S. Department of Veterans Affairs

Drawing Title

SITE FURNISHINGS PLAN

Approved: Project Director

SIoux FALLS VA HEALTH CARE SYSTEM

Phase

BID DOCUMENTS

FULLY SPRINKLERED

Project Title

CONSTRUCT NEW SPS

Location

SIoux FALLS, SOUTH DAKOTA

Issue Date

08/04/2022

Checked

CC

Drawn

JF

Project Number

438-460

Building Number

5

Drawing Number

LF101

File Path: y:\050016584-va-sioux-falls-construct-new-sps-cps-07-civil-01-cad-files-01-sheetset\050016584-va-furnishings.dwg | edited: 8/4/2023 11:34 AM | saved: 7/6/2023 11:34 AM | pdf: 7/7/2023 1:33 PM  
VA FORM 08 - 6231



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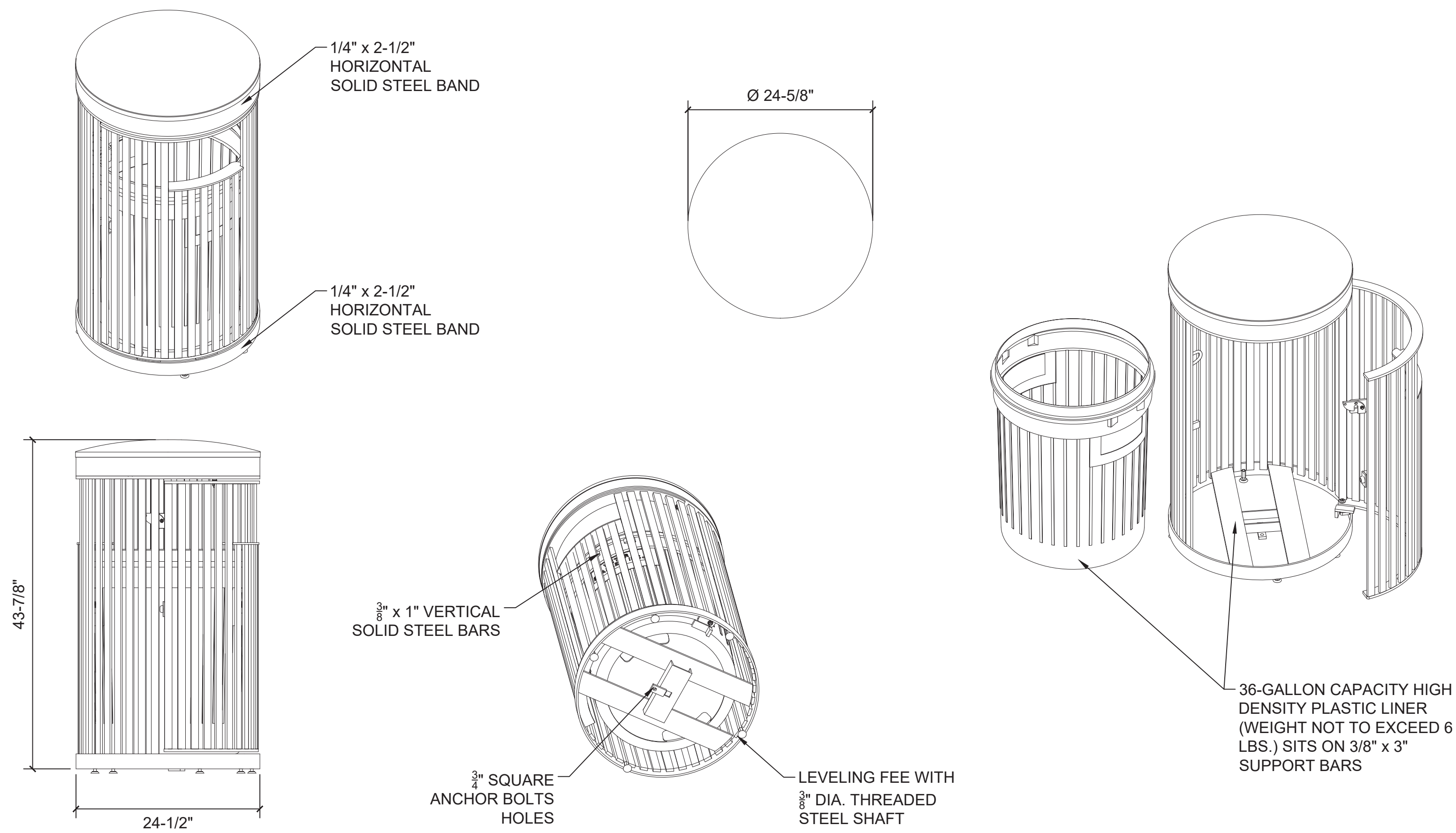
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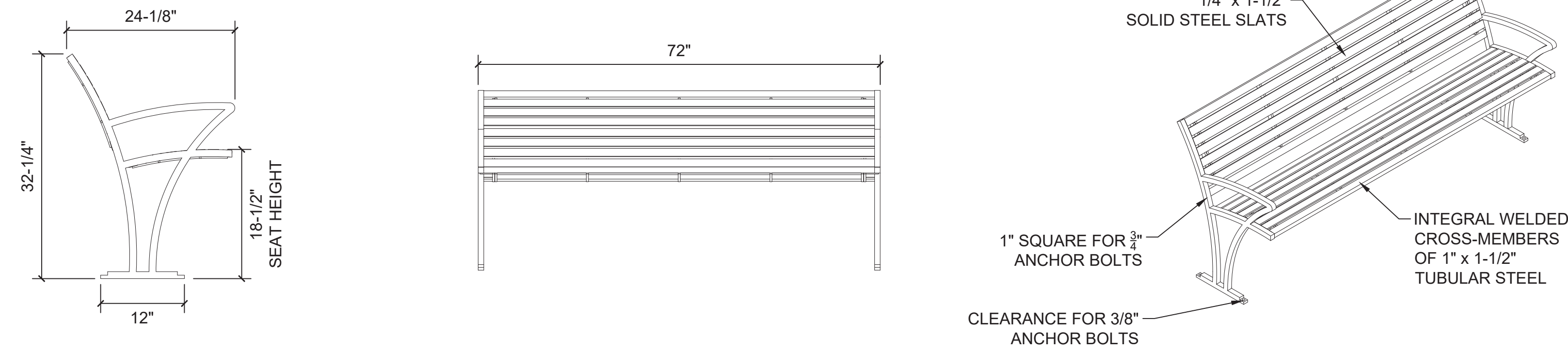
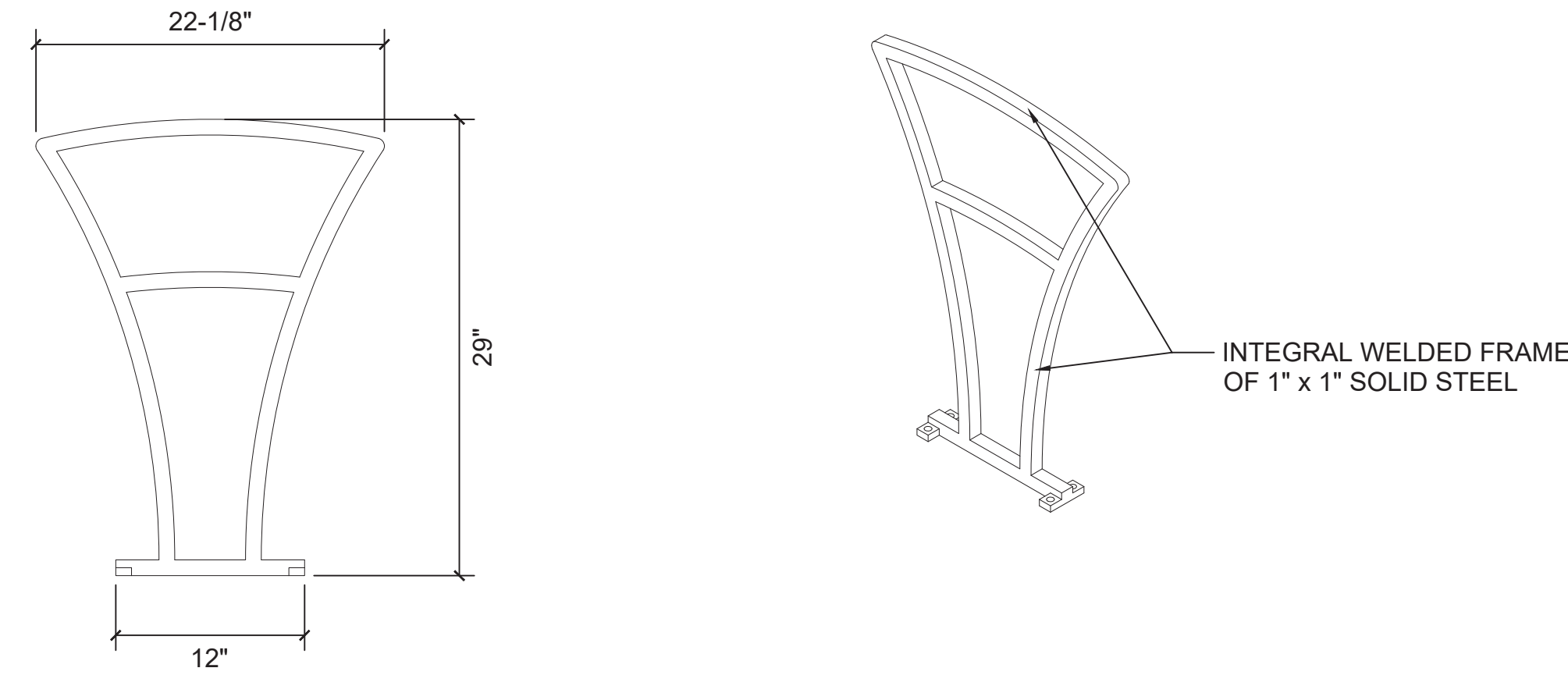
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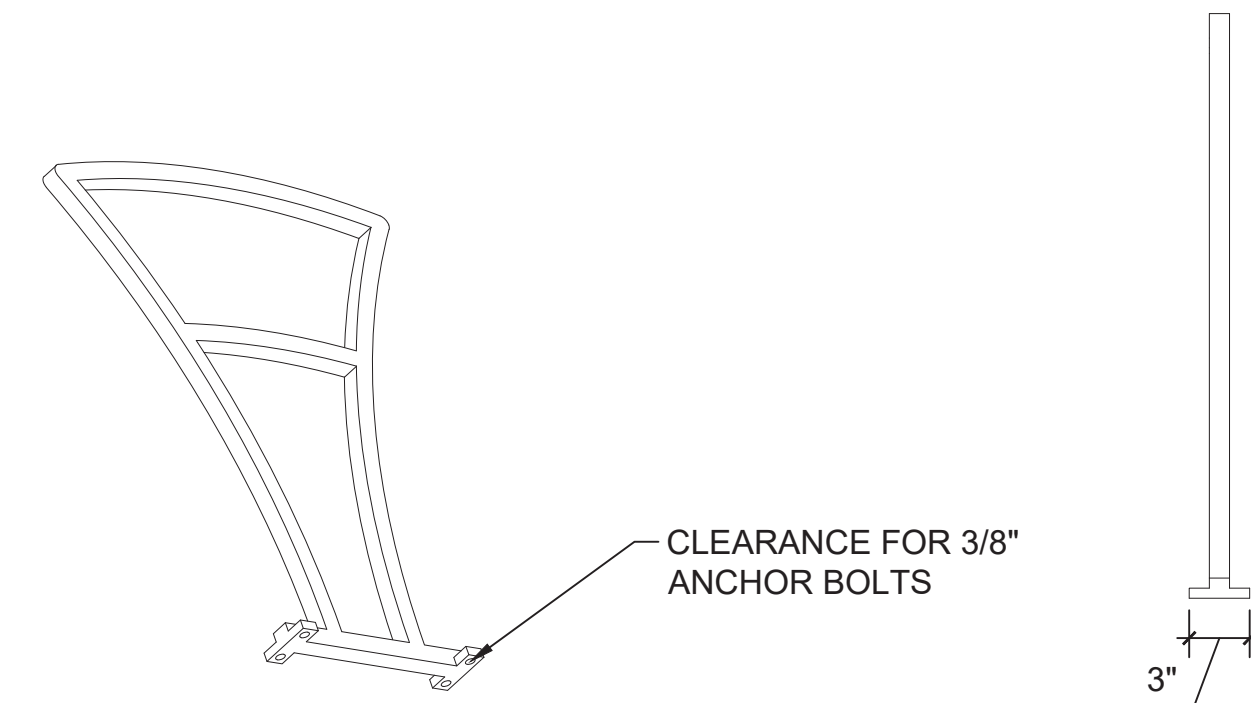
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1 TRASH RECEPTACLE (BY OWNER)  
SCALE: N.T.S. (30" x 42" PAPER SIZE)



2 BENCH (BY OWNER)  
SCALE: N.T.S. (30" x 42" PAPER SIZE)



3 BIKE RACK (BY OWNER)  
SCALE: N.T.S. (30" x 42" PAPER SIZE)

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VA FORM 08 - 6231

Revisions:	Date:

CONSULTANTS	
	

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13605 1st Ave. N. #100 Plymouth, MN 55441 P 763.412.4000   F 763.412.4090   <a href="http://ae-mn.com">ae-mn.com</a> Anderson Engineering of Minnesota, LLC   Proj # 16584	

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

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

Phase
BID DOCUMENTS
FULLY SPRINKLERED

Project Title		
CONSTRUCT NEW SPS		
Location	SIOUX FALLS, SOUTH DAKOTA	
Issue Date	Checked	Drawn
08/04/2022	CC	JF

Project Number
438-460
Building Number
5
Drawing Number
LF501



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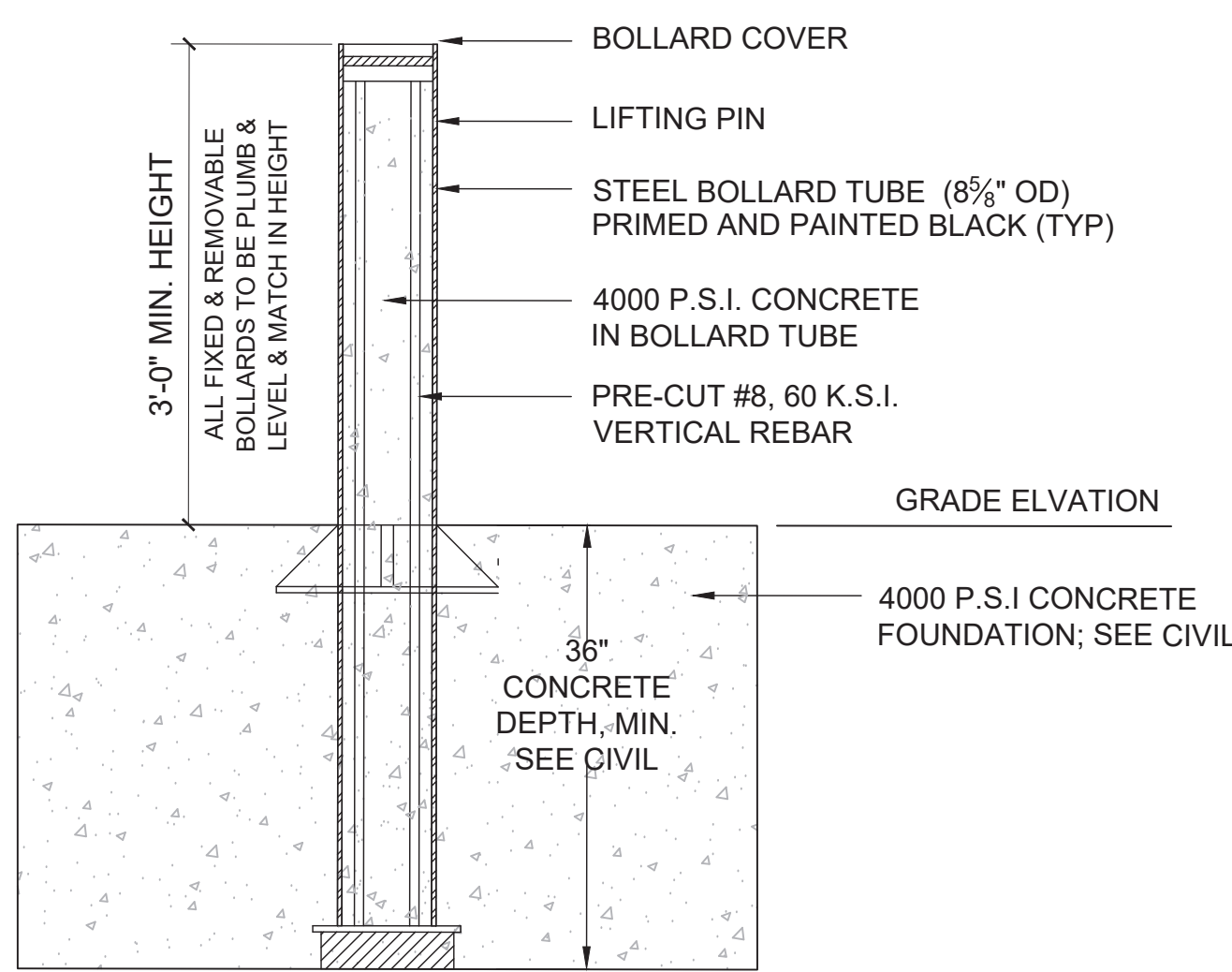
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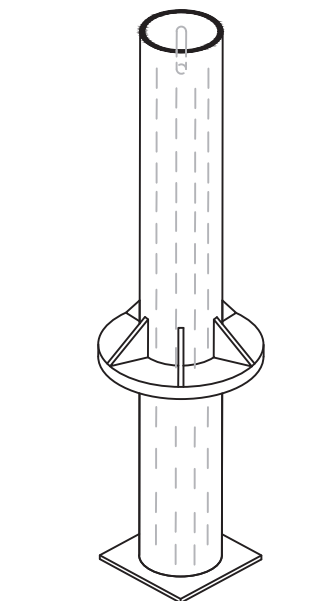
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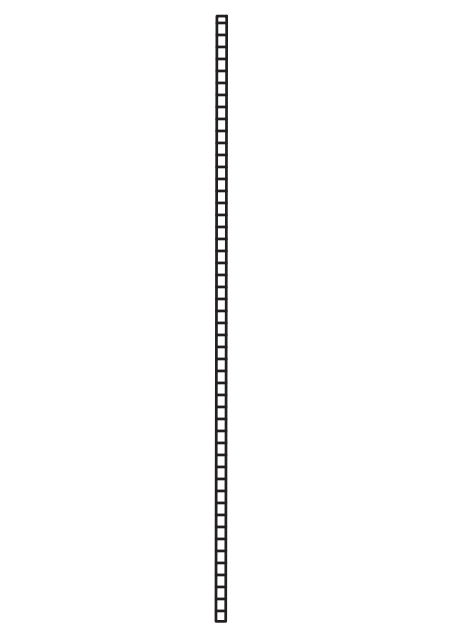


FIXED BOLLARD  
BASIS FOR DESIGN  
MODEL SPB-400 (SET & POUR)  
RATED ASTM M30(K4)  
BY IDEAL SHIELD

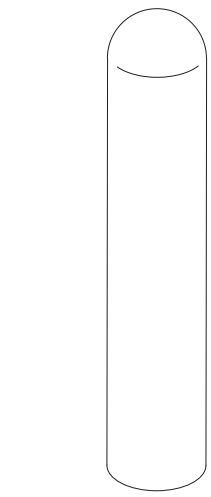
NOTE:  
STANDARD FIXED BOLLARDS & REMOVABLE  
BOLLARDS TO BE RATED ASTM M30(K4) PER VA  
PHYSICAL SECURITY AND RESILIENCY DESIGN  
MANUAL REQUIREMENTS



BOLLARD TUBE  
(QTY 1) EACH BOLLARD

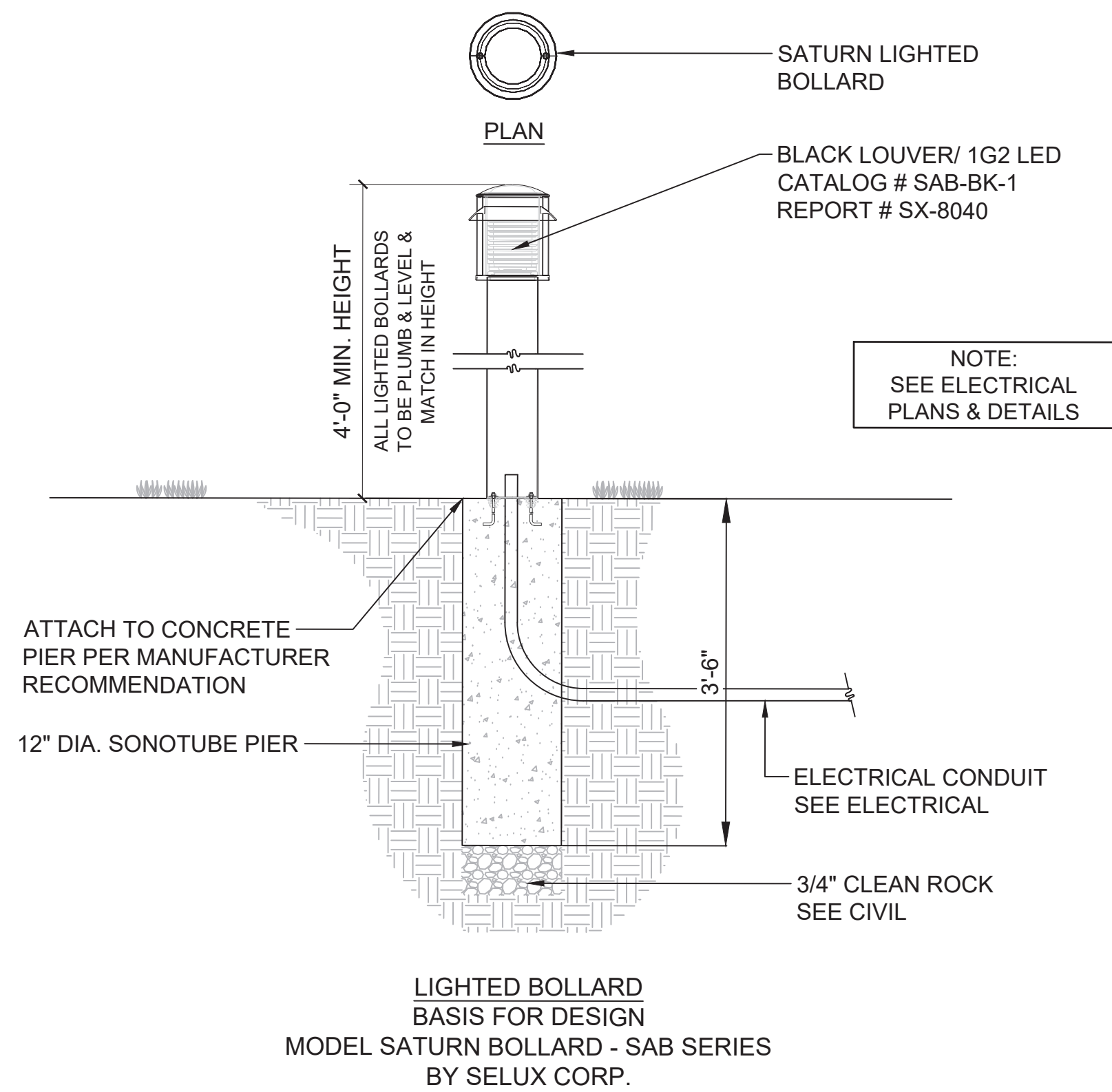


PRE-CUT VERTICAL REBAR  
(INSIDE BOLLARD)  
(QTY 6) EACH BOLLARD



BOLLARD COVER  
(QTY 1) EACH BOLLARD

FIXED BOLLARD PREFABRICATED MATERIALS



LIGHTED BOLLARD  
BASIS FOR DESIGN  
MODEL SATURN BOLLARD - SAB SERIES  
BY SELUX CORP.

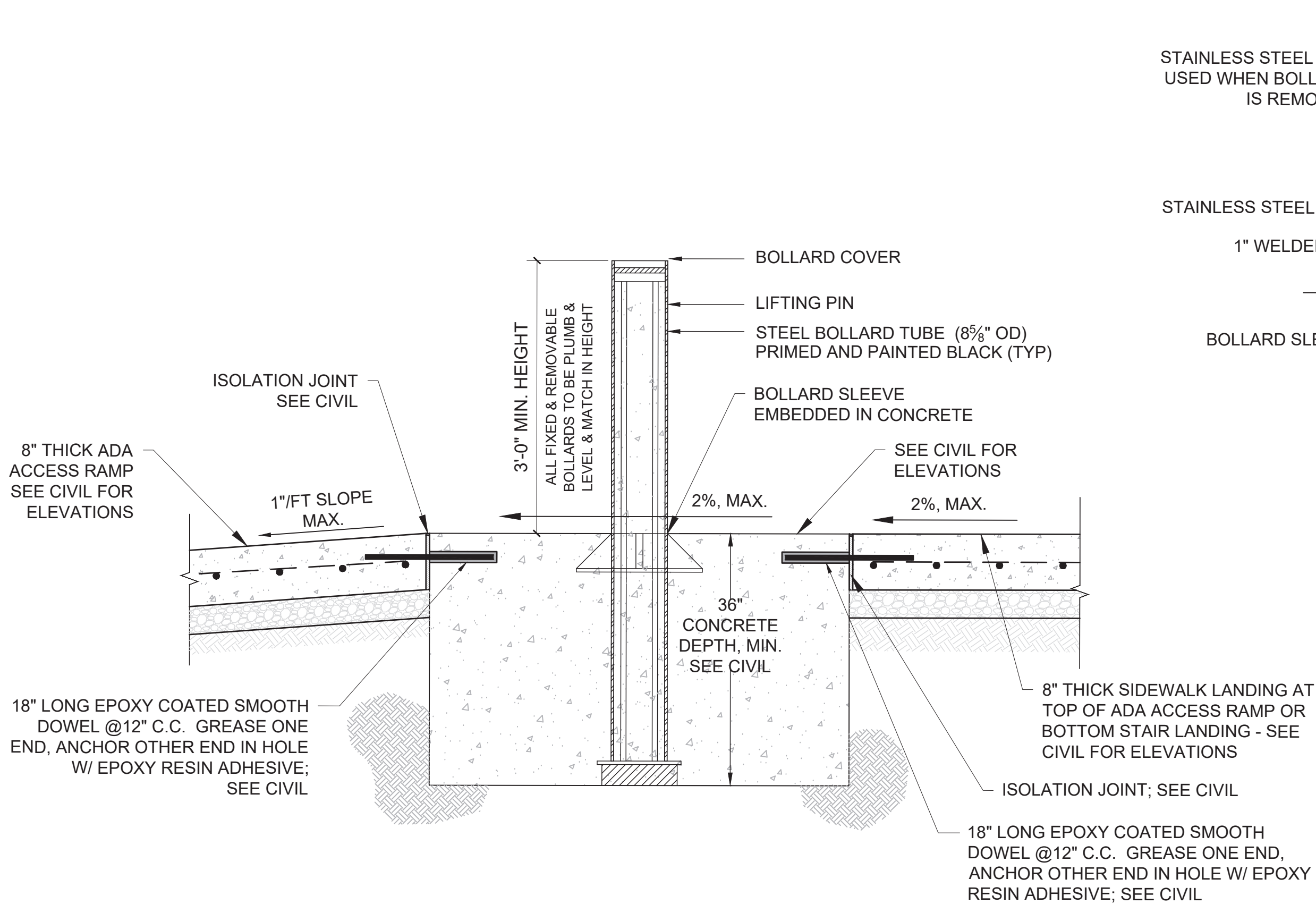
NOTE:  
SEE ELECTRICAL  
PLANS & DETAILS

### 1 FIXED BOLLARDS - RATED M30(K4)

SCALE: N.T.S. (30" x 42" PAPER SIZE)

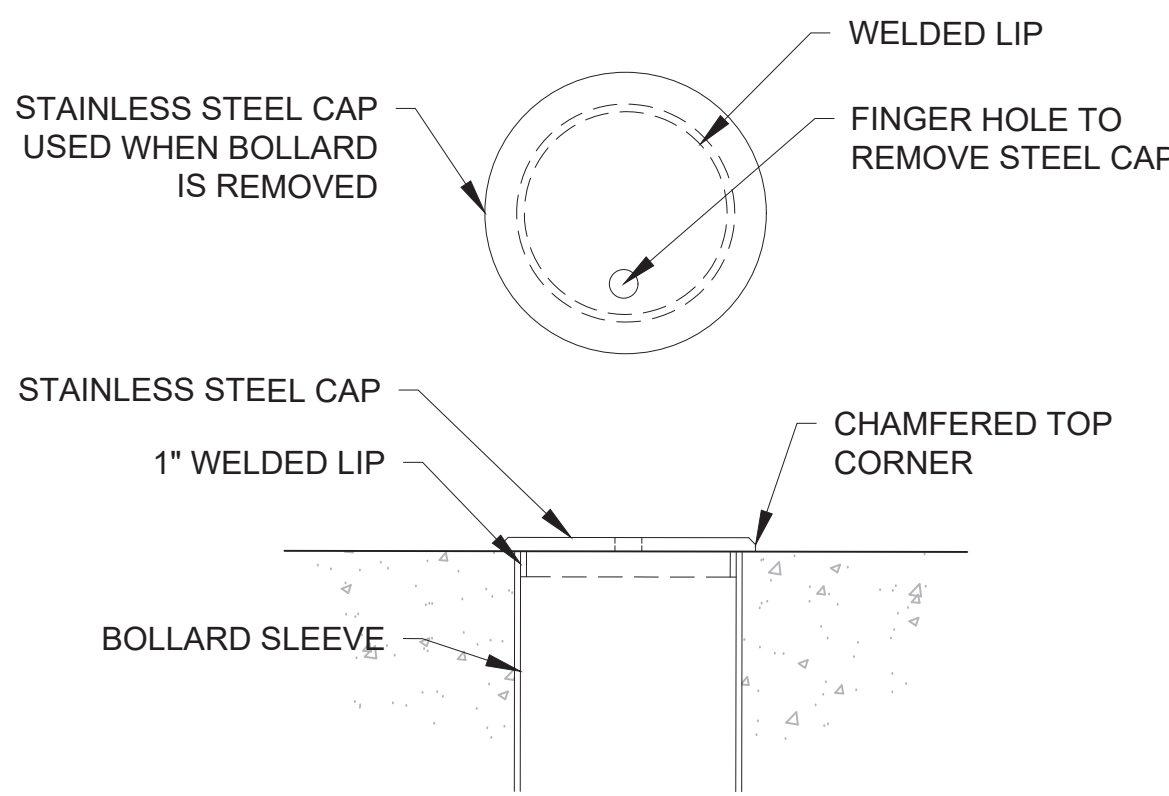
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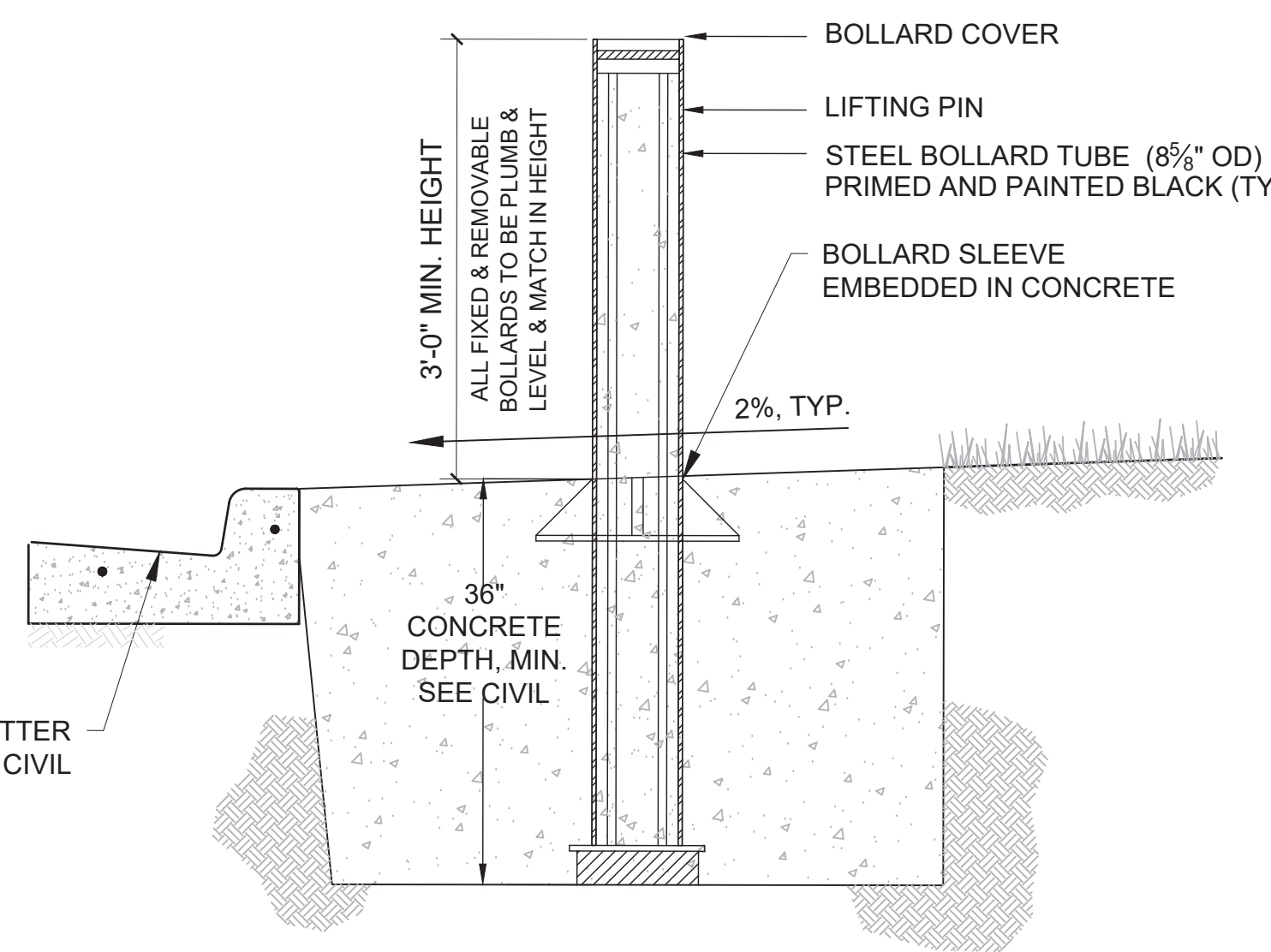


REMOVABLE BOLLARD  
(AT TOP OF ABA ACCESS RAMP & BOTTOM STAIR LANDING)  
BASIS FOR DESIGN MODEL SPB-400  
RATED ASTM M30(K4)  
BY IDEAL SHIELD

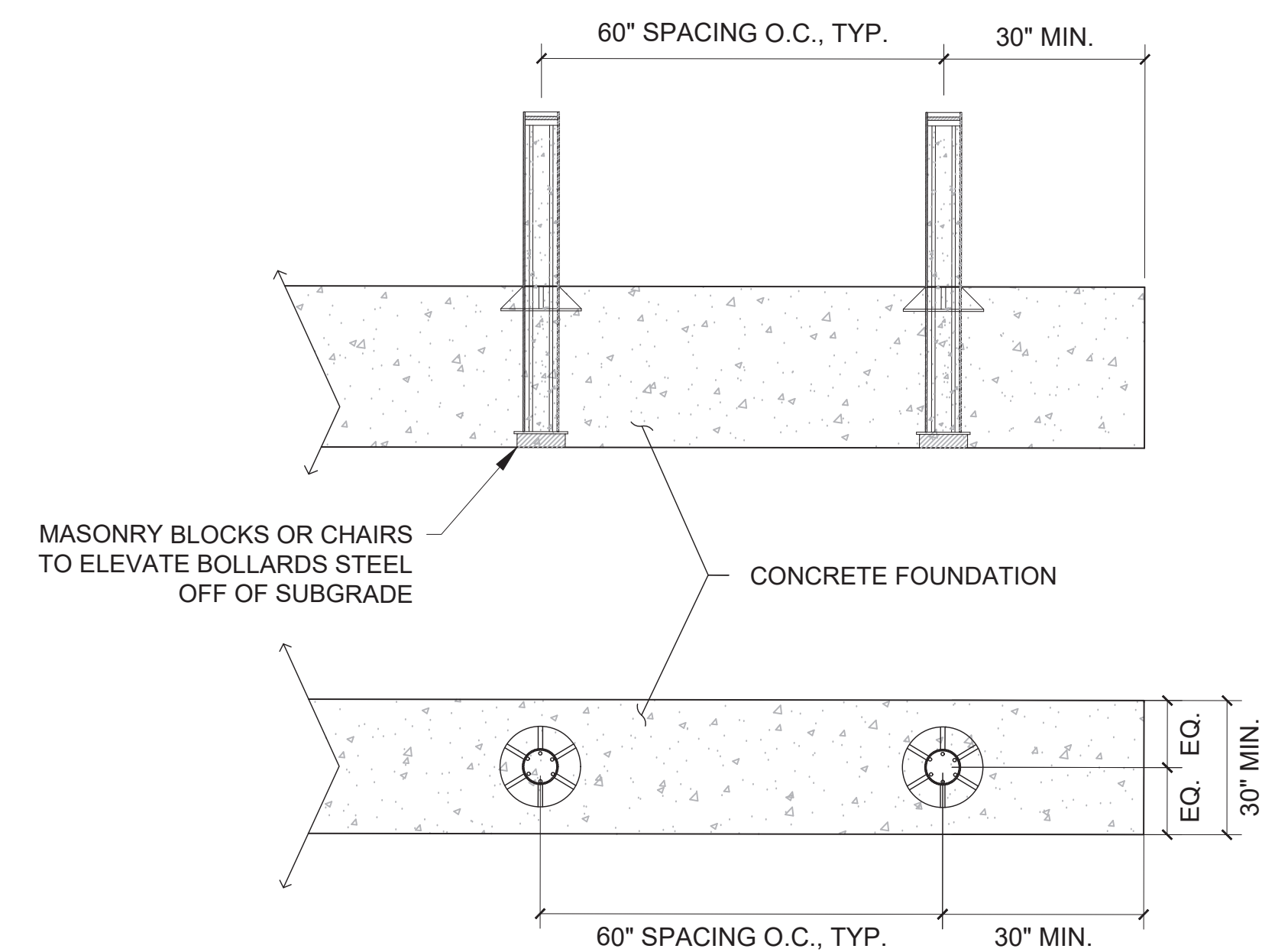
NOTE:  
STANDARD FIXED BOLLARDS & REMOVABLE  
BOLLARDS TO BE RATED ASTM M30(K4) PER VA  
PHYSICAL SECURITY AND RESILIENCY DESIGN  
MANUAL REQUIREMENTS



REMOVABLE BOLLARD CAP  
BASIS FOR DESIGN MODEL SPB-400  
RATED ASTM M30(K4)  
BY IDEAL SHIELD



REMOVABLE BOLLARD  
(BEHIND CURB AND GUTTER)  
BASIS FOR DESIGN MODEL SPB-400  
RATED ASTM M30(K4)  
BY IDEAL SHIELD



FIXED AND REMOVABLE BOLLARD ARRAY

### 3 REMOVABLE BOLLARDS - RATED M30(K4)

SCALE: N.T.S. (30" x 42" PAPER SIZE)

### 4 FIXED & REMOVABLE BOLLARDS SPACING

SCALE: N.T.S. (30" x 42" PAPER SIZE)

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VA FORM 08-6231

Revisions:	Date:

CONSULTANTS

**IMEG** **EC design**

ARCHITECT/ENGINEER OF RECORD

**ANDERSON**

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P 763.412.4000 | F 763.412.4090 | [ae-mn.com](mailto:ae-mn.com)  
Anderson Engineering of Minnesota, LLC | Proj # 16584

STAMP

PROFESSIONAL LANDSCAPE ARCHITECT  
13908  
COURT N.  
CLAES  
SIOUX FALLS, SOUTH DAKOTA  
REGISTERED

Office of  
Construction  
and Facilities  
Management

**VA** U.S. Department  
of Veterans Affairs

Drawing Title

**SITE FURNISHINGS DETAILS**

Approved: Project Director

**SIOUX FALLS VA  
HEALTH CARE SYSTEM**

Phase

**BID DOCUMENTS**

**FULLY SPRINKLERED**

Project Title

**CONSTRUCT NEW SPS**

Location  
SIOUX FALLS, SOUTH DAKOTA

Issue Date  
08/04/2022

Checked  
CC

Drawn  
JF

Project Number

**438-460**

Building Number

**5**

Drawing Number

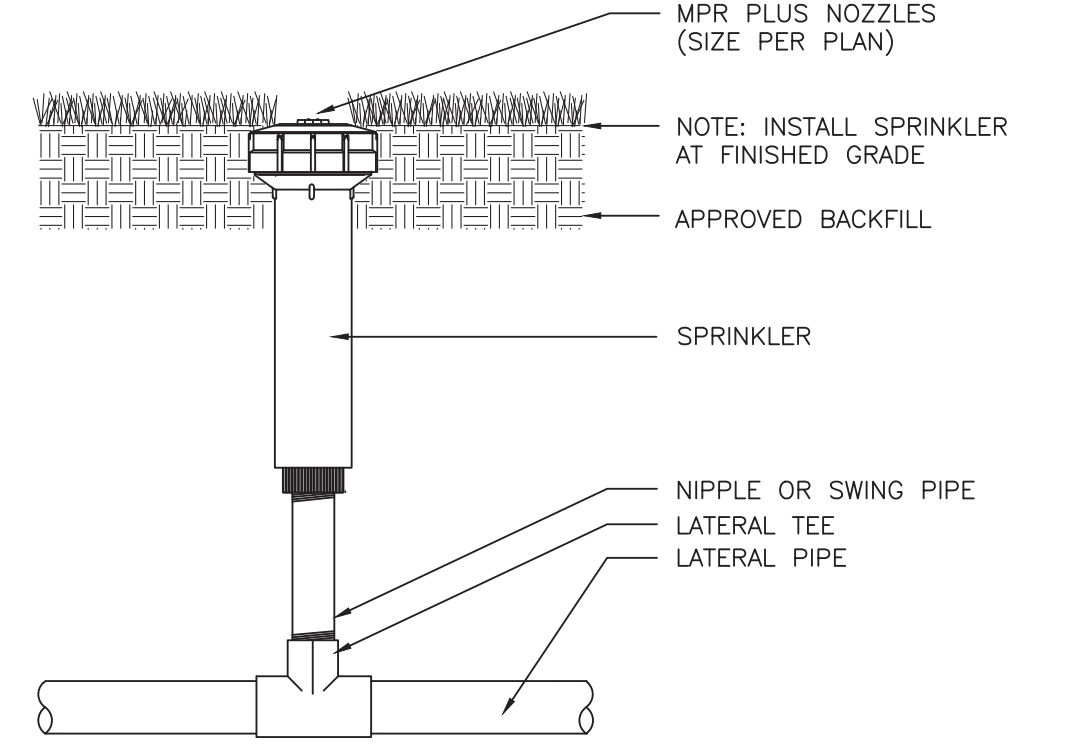
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5 FIXED-SPRAY SPRINKLER  
SCALE: NONE

BASED ON SIDE THRUST PER 100 LBS./SQUARE INCH  
PRESSURE PER DEGREE OF DEFLECTION

NOTE: MULTIPLY SIDE THRUST POUNDS BY DEGREES  
OF DEFLECTION TIMES POUNDS OF PRESSURE DIVIDED  
BY 100 TO OBTAIN TOTAL SIDE THRUST IN POUNDS.

## 7 SLEEVING DETAIL

SCALE: NONE

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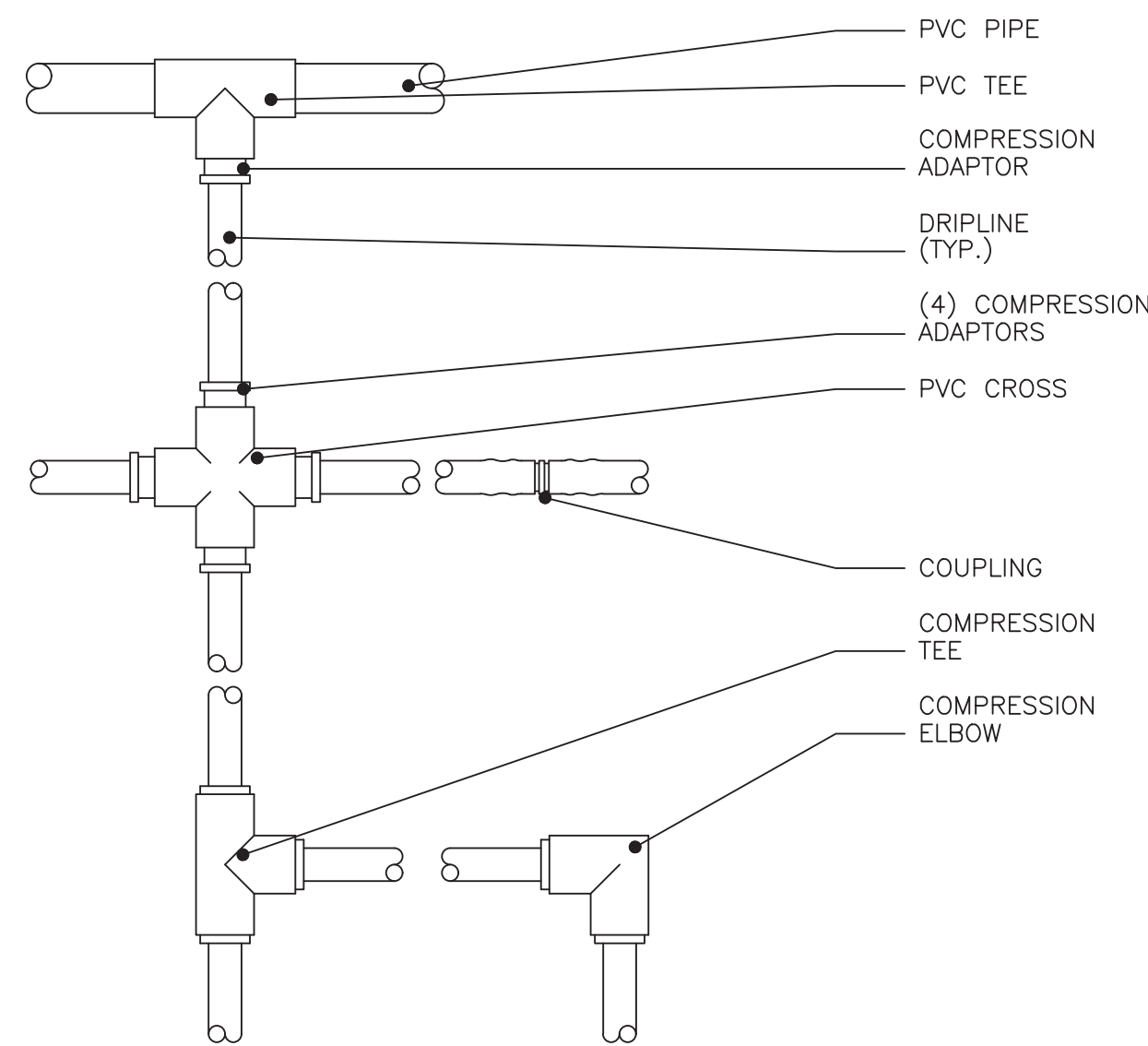
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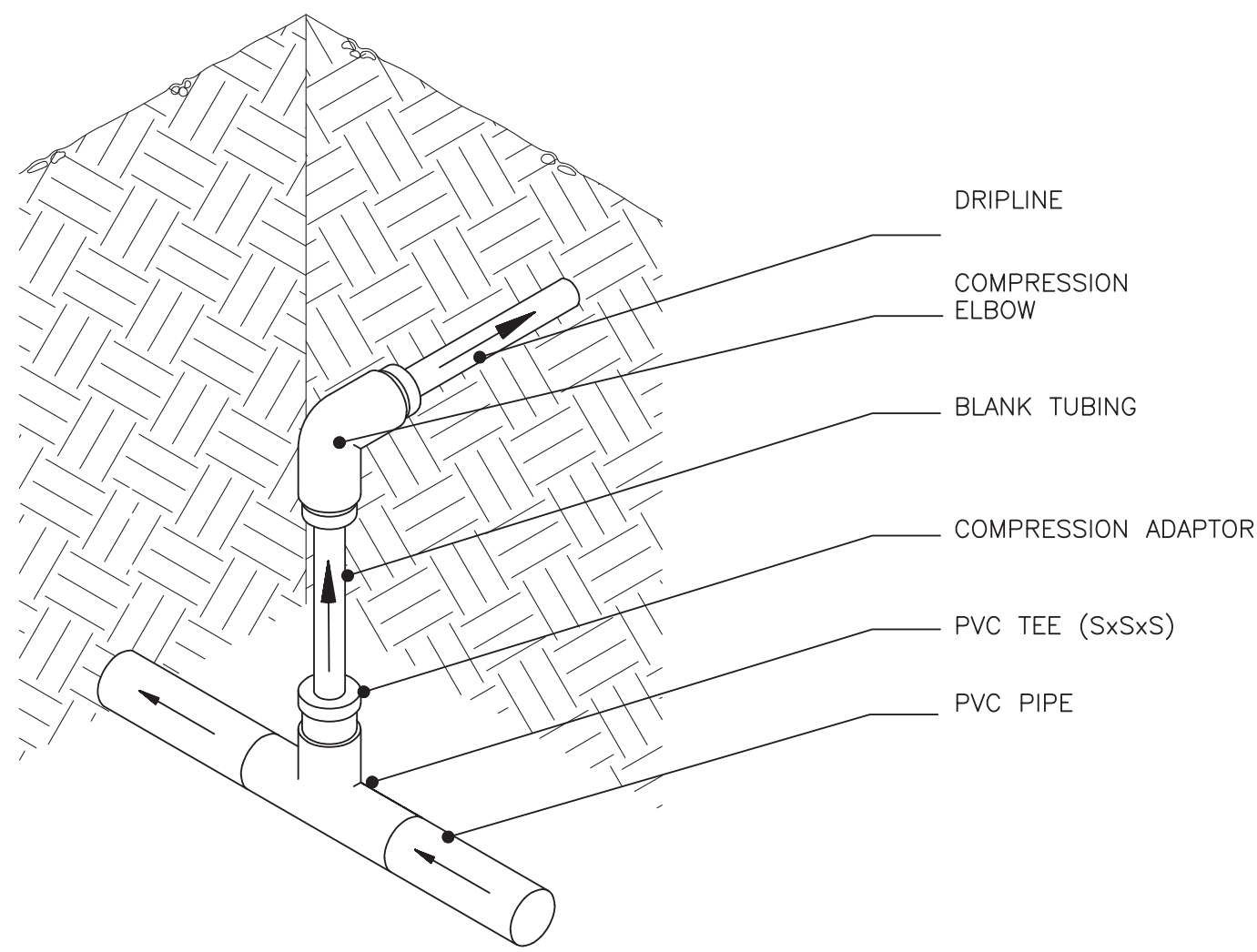
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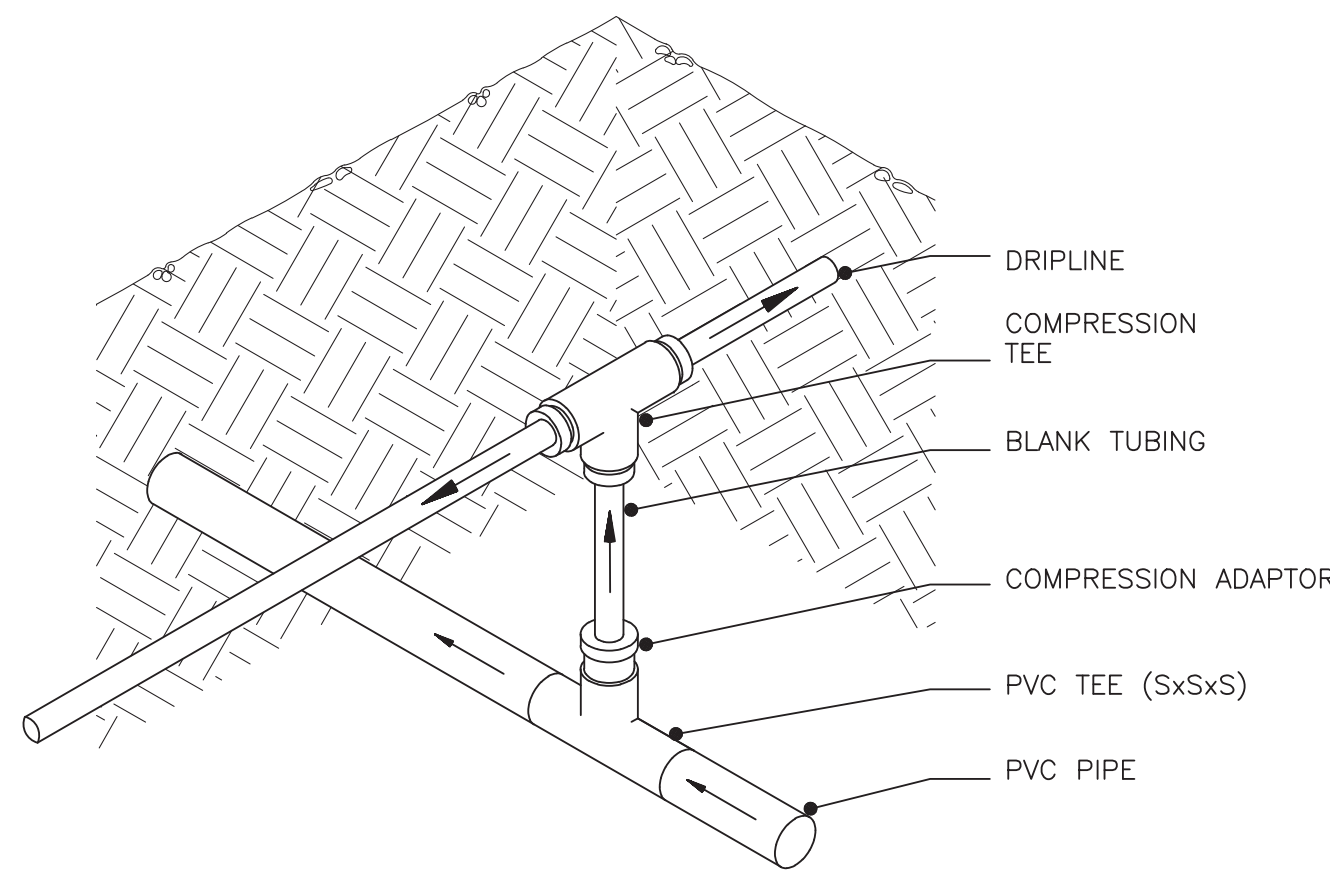
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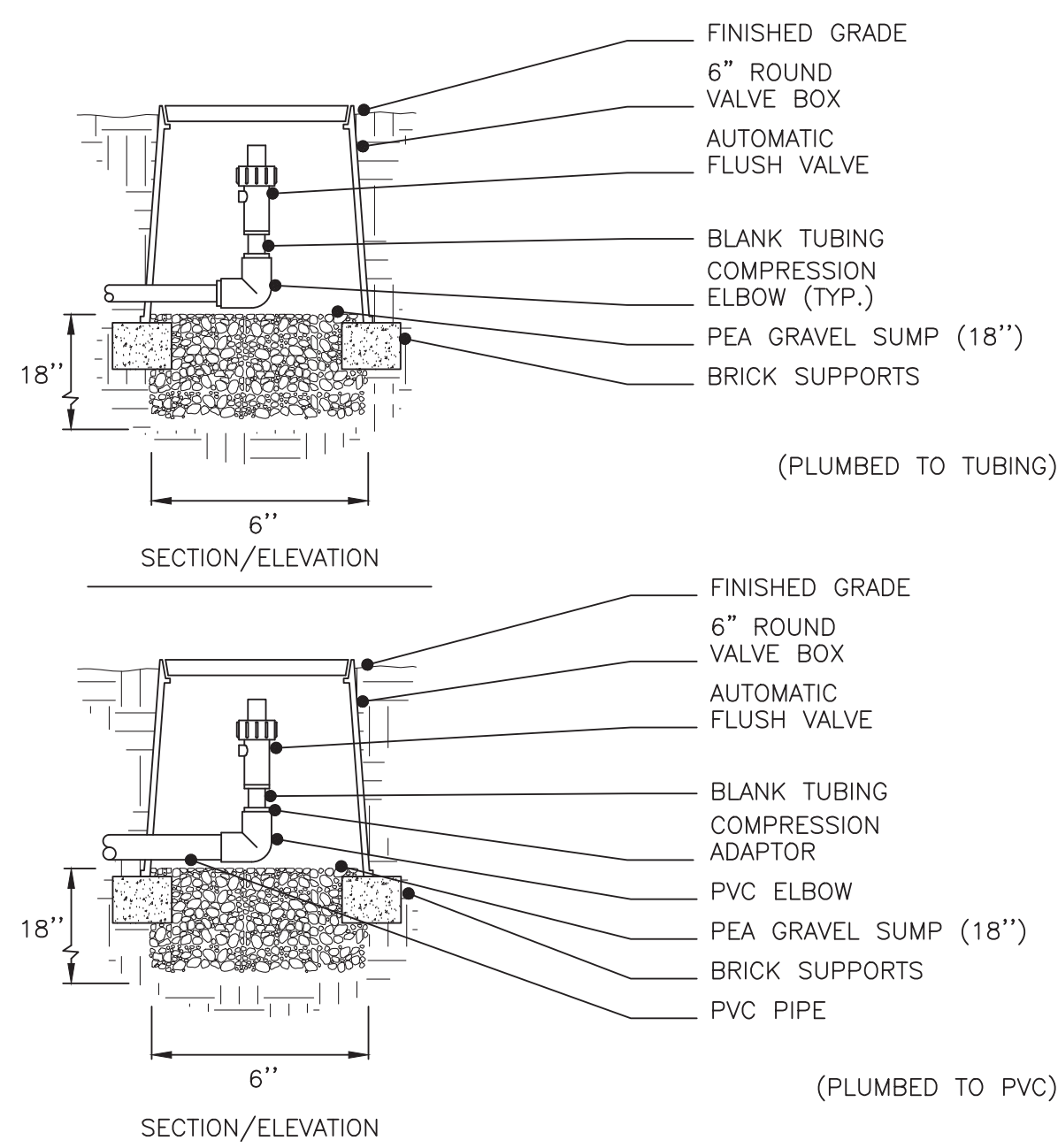
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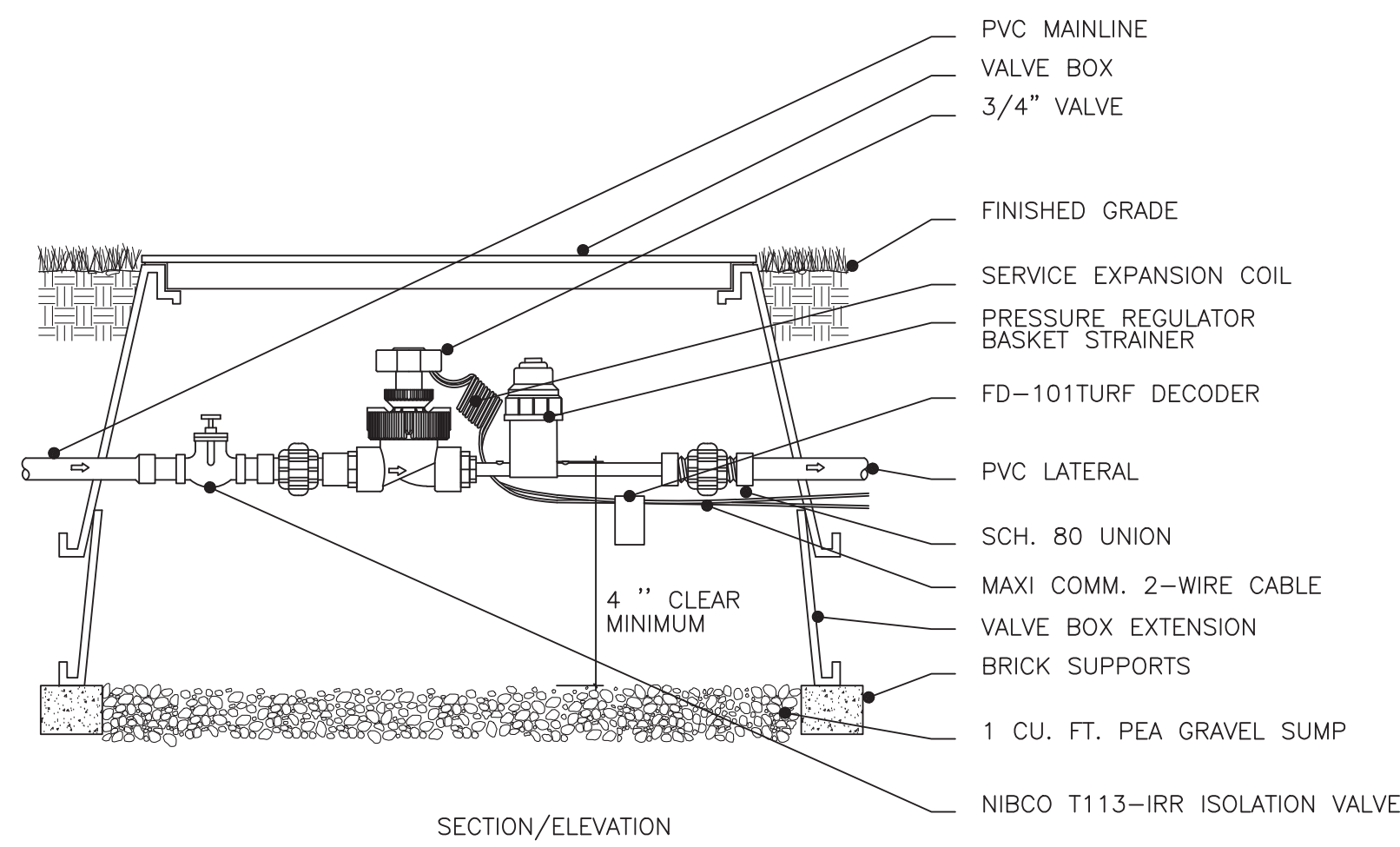
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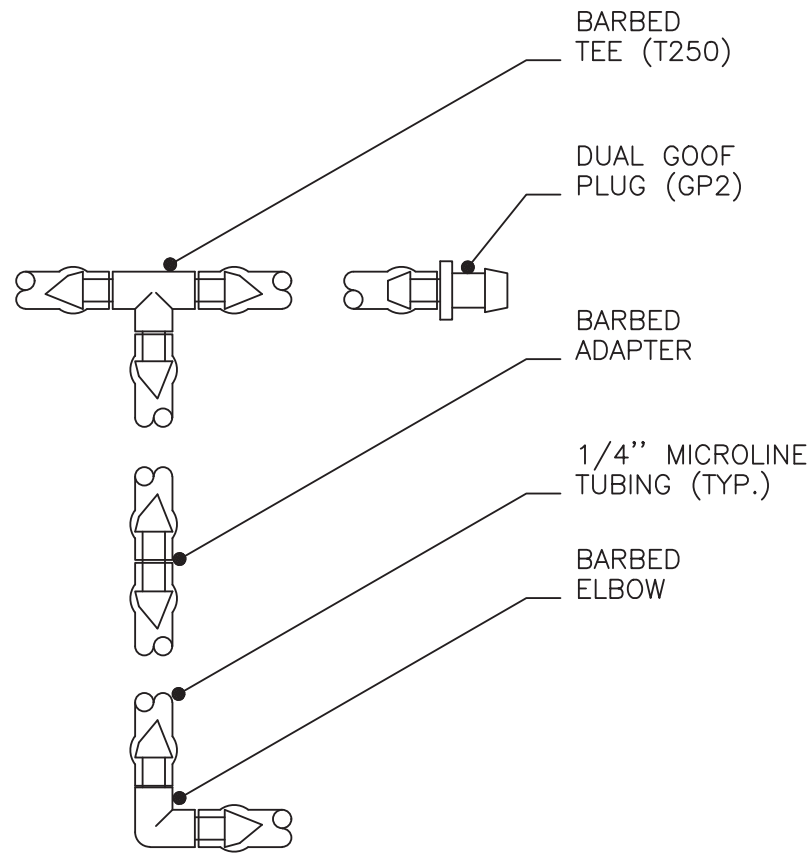
3 MANIFOLD-TO-TEE CONNECTION  
SCALE: NONE



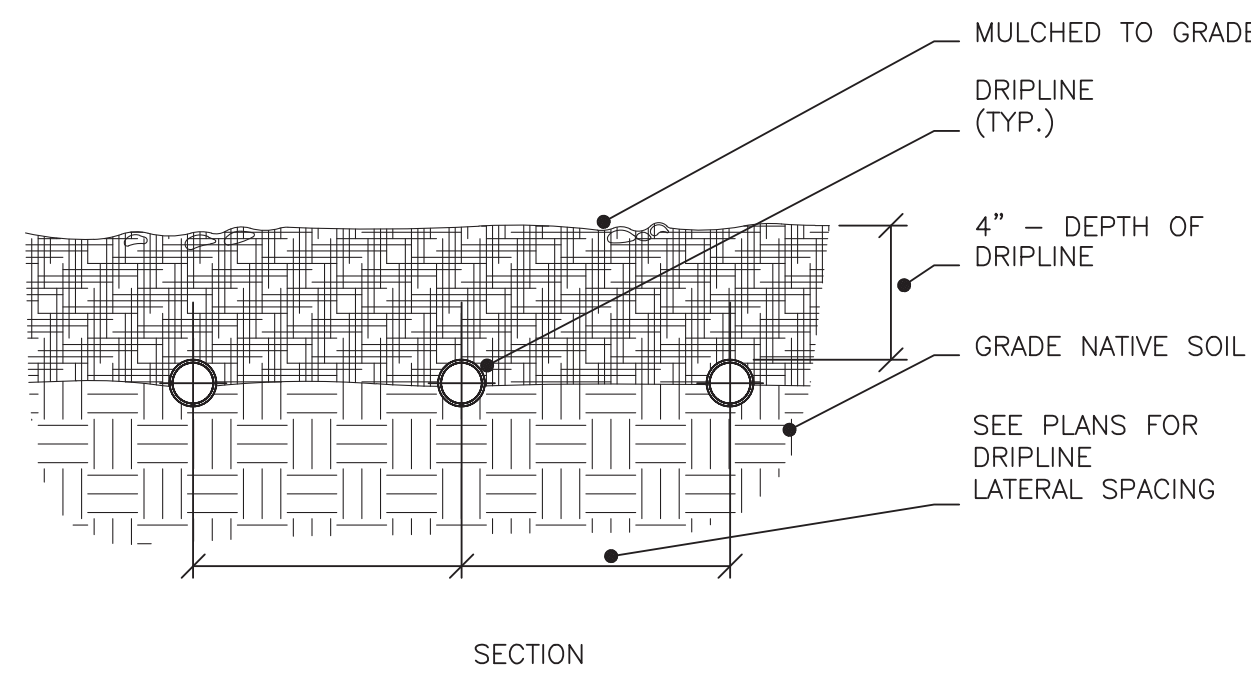
4 AUTOMATIC FLUSH VALVE  
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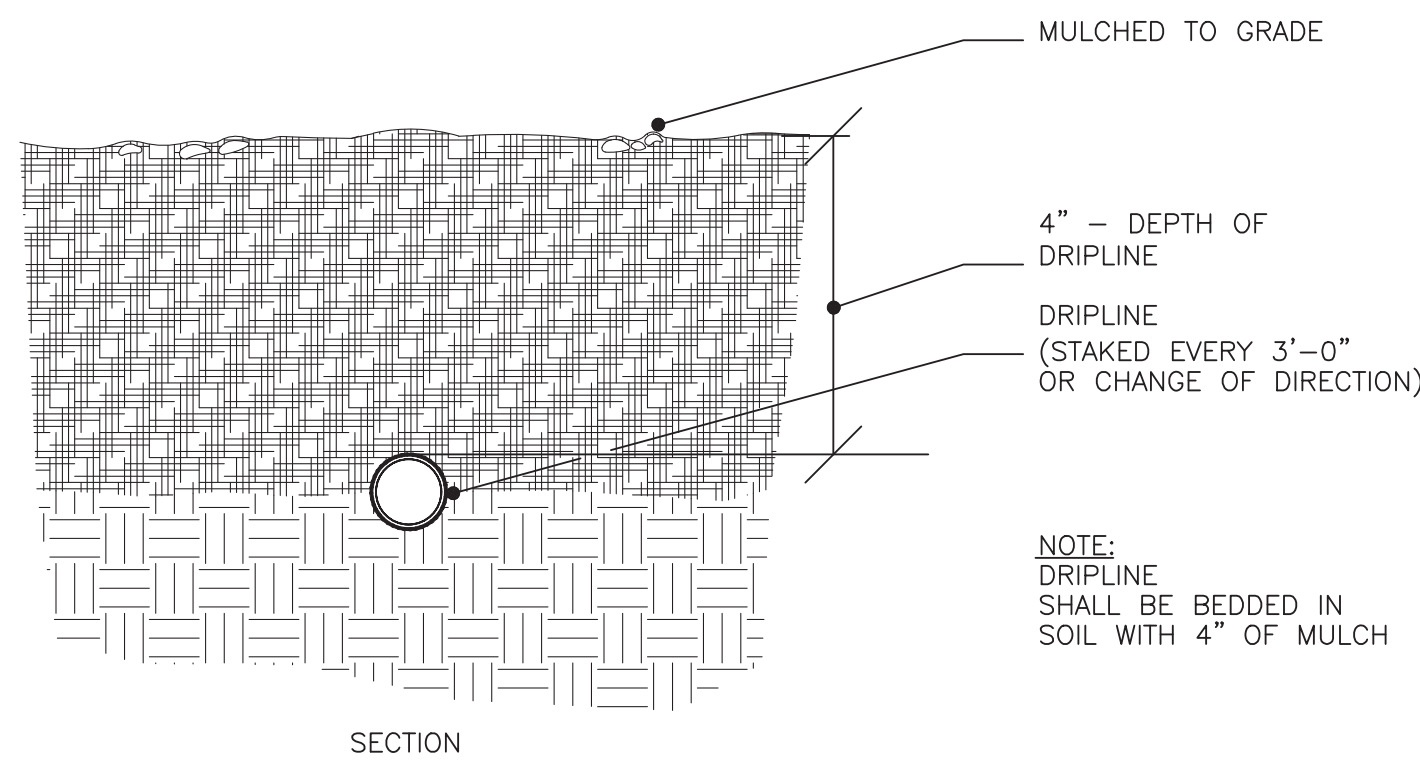
5 REMOTE CONTROL VALVE,  
PRESSURE REGULATOR & FILTER  
SCALE: NONE



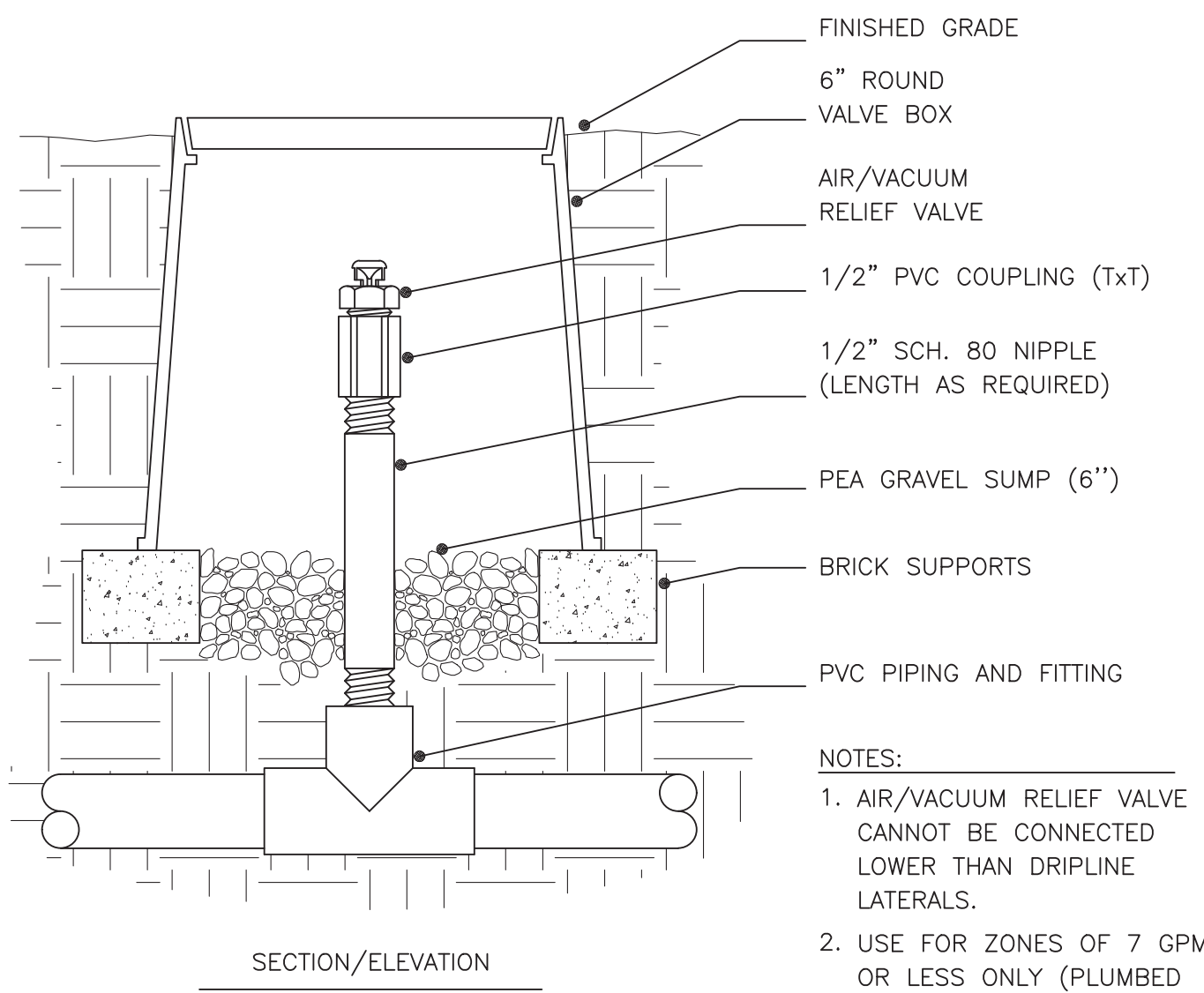
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SCALE: NONE



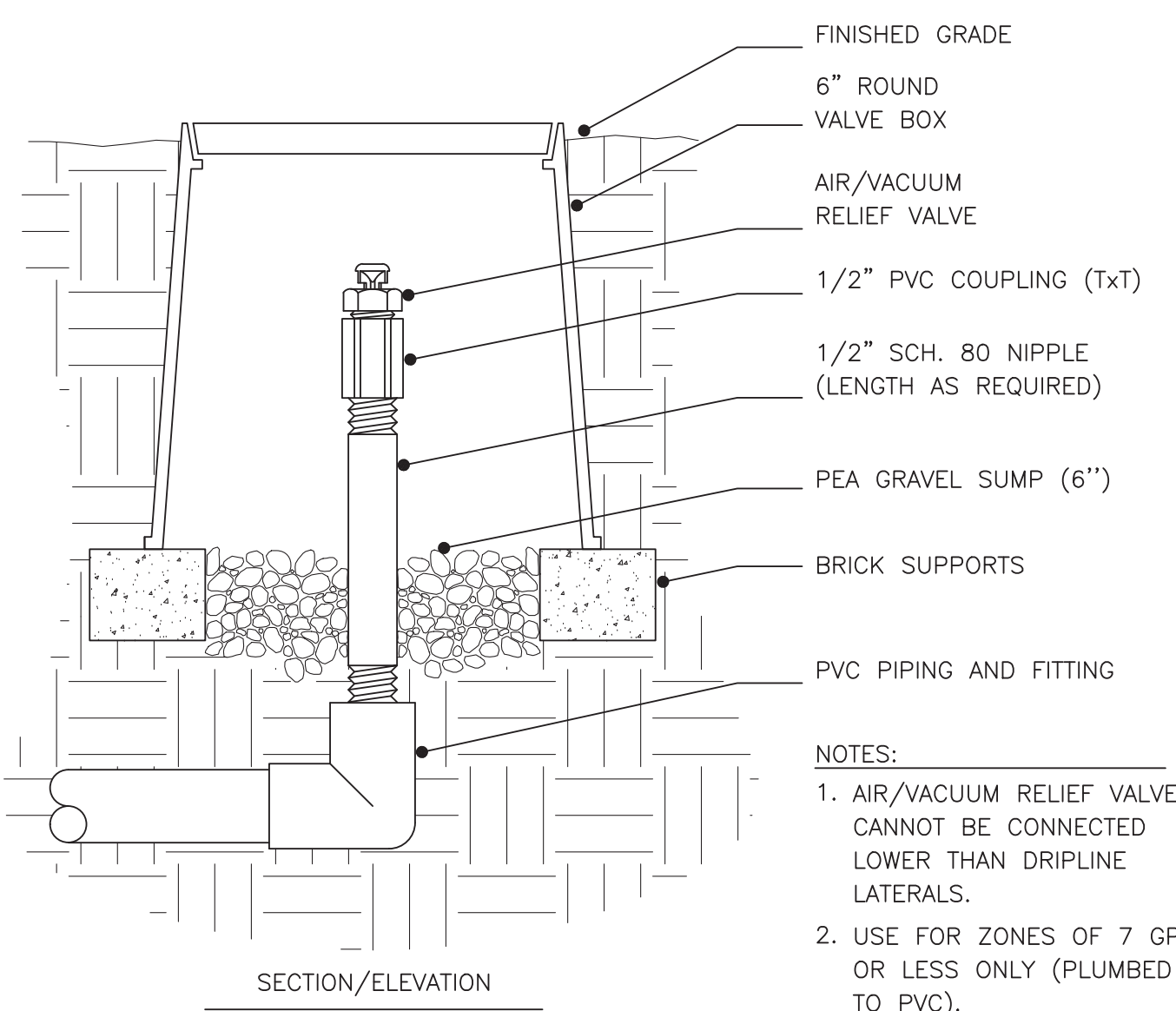
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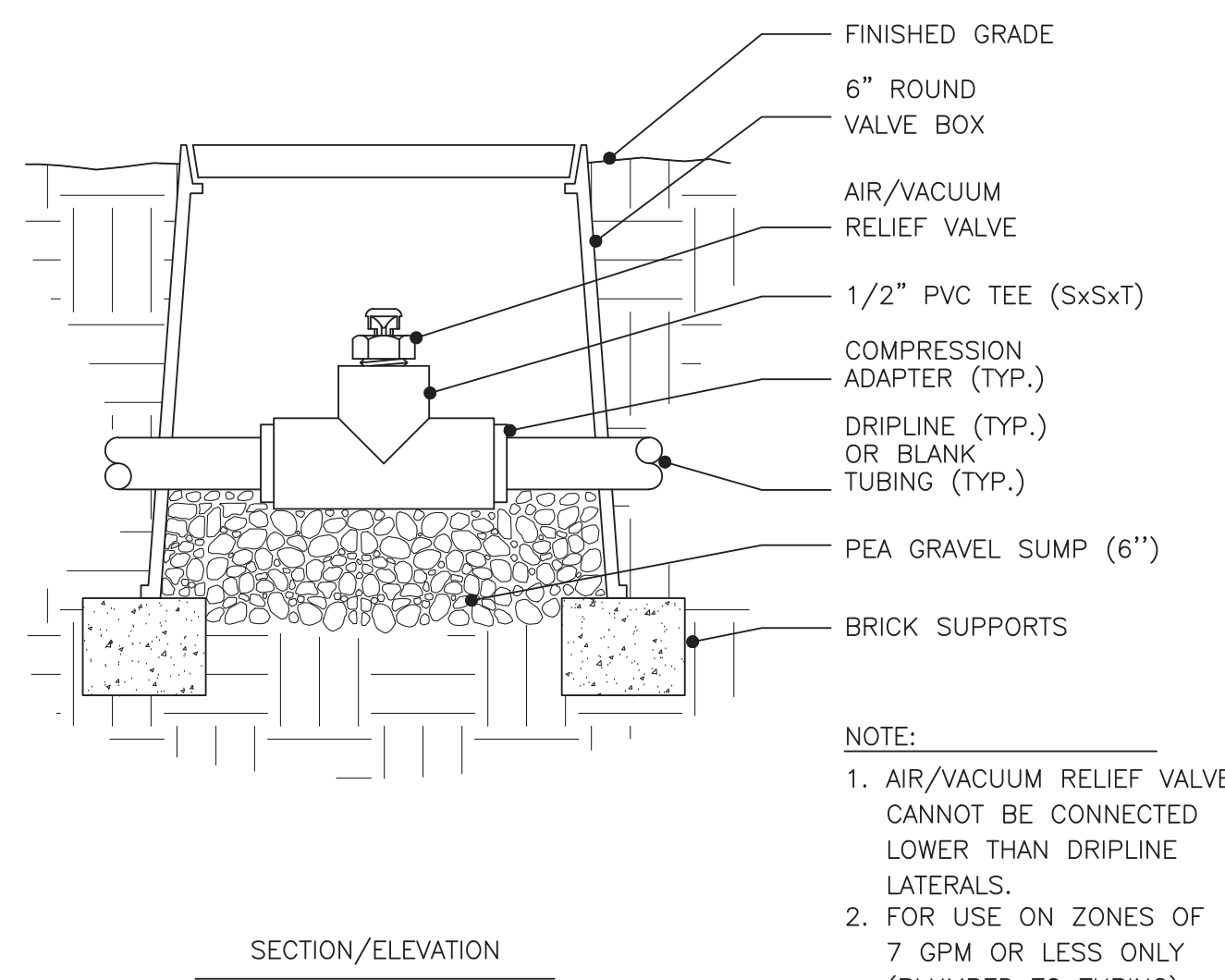
8 DRIPLINE TRENCH  
SCALE: NONE



9 1/2" AIR/VACUUM RELIEF VALVE  
SCALE: NONE



10 1/2" AIR/VACUUM RELIEF VALVE  
SCALE: NONE



11 1/2" AIR/VACUUM RELIEF VALVE  
SCALE: NONE

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Revisions:	Date:

CONSULTANTS

**IMEG** *ECO design*

ARCHITECT/ENGINEER OF RECORD

**ANDERSON**

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Anderson Engineering of Minnesota, LLC | Proj # 16584

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

08/04/2022

Checked

Drawn

Project Number

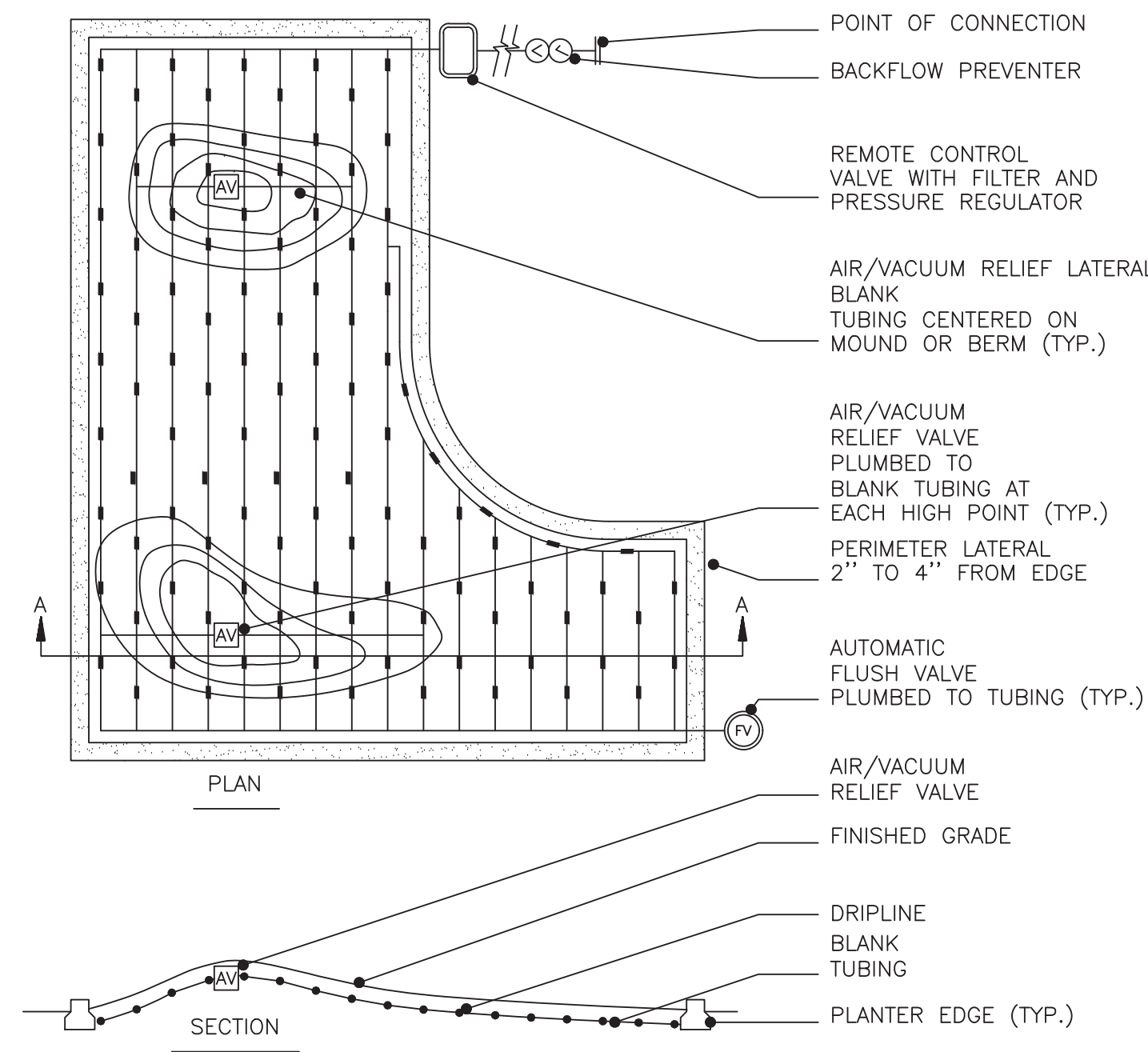
438-460

Building Number

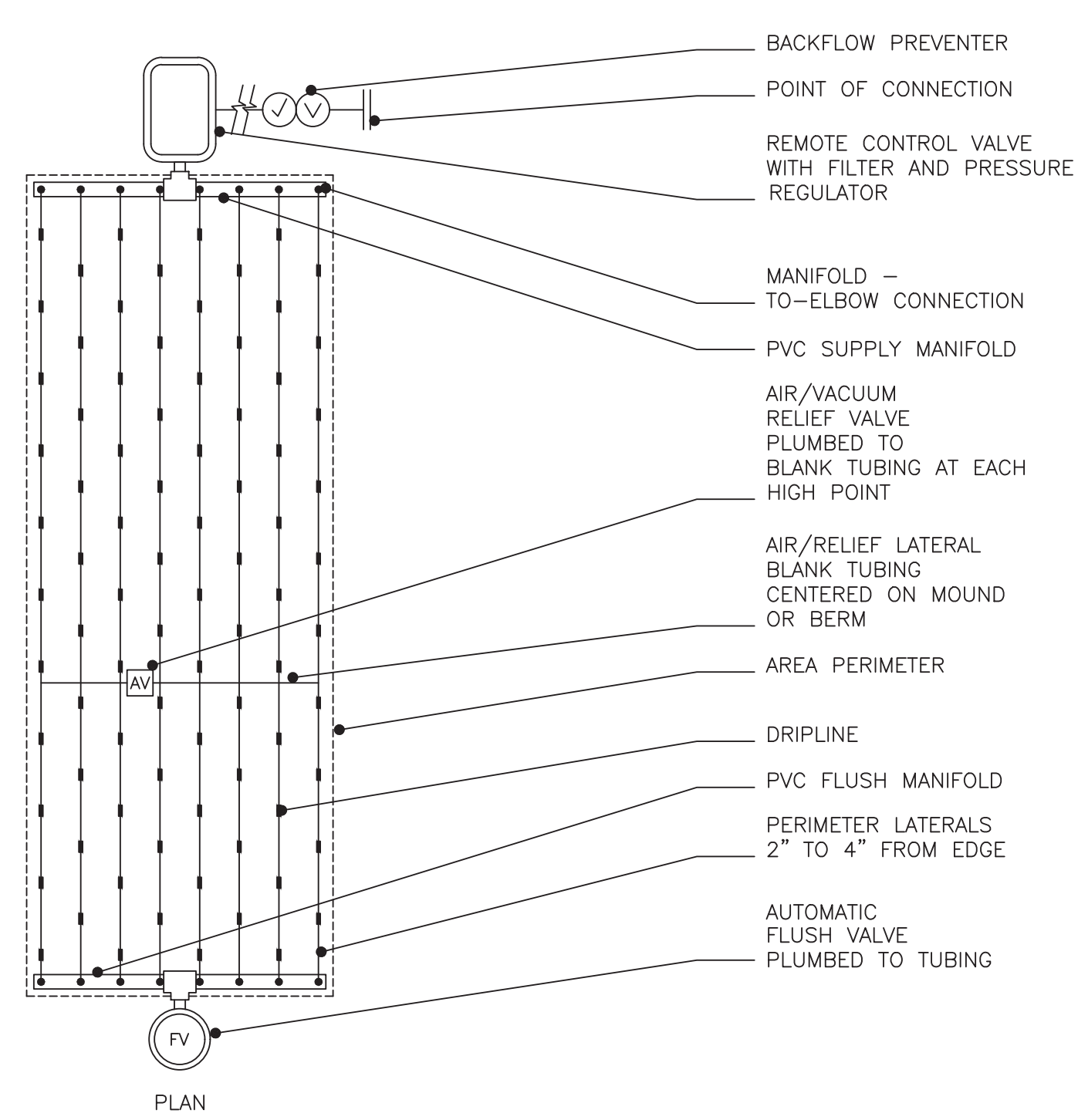
Drawing Number

IR502

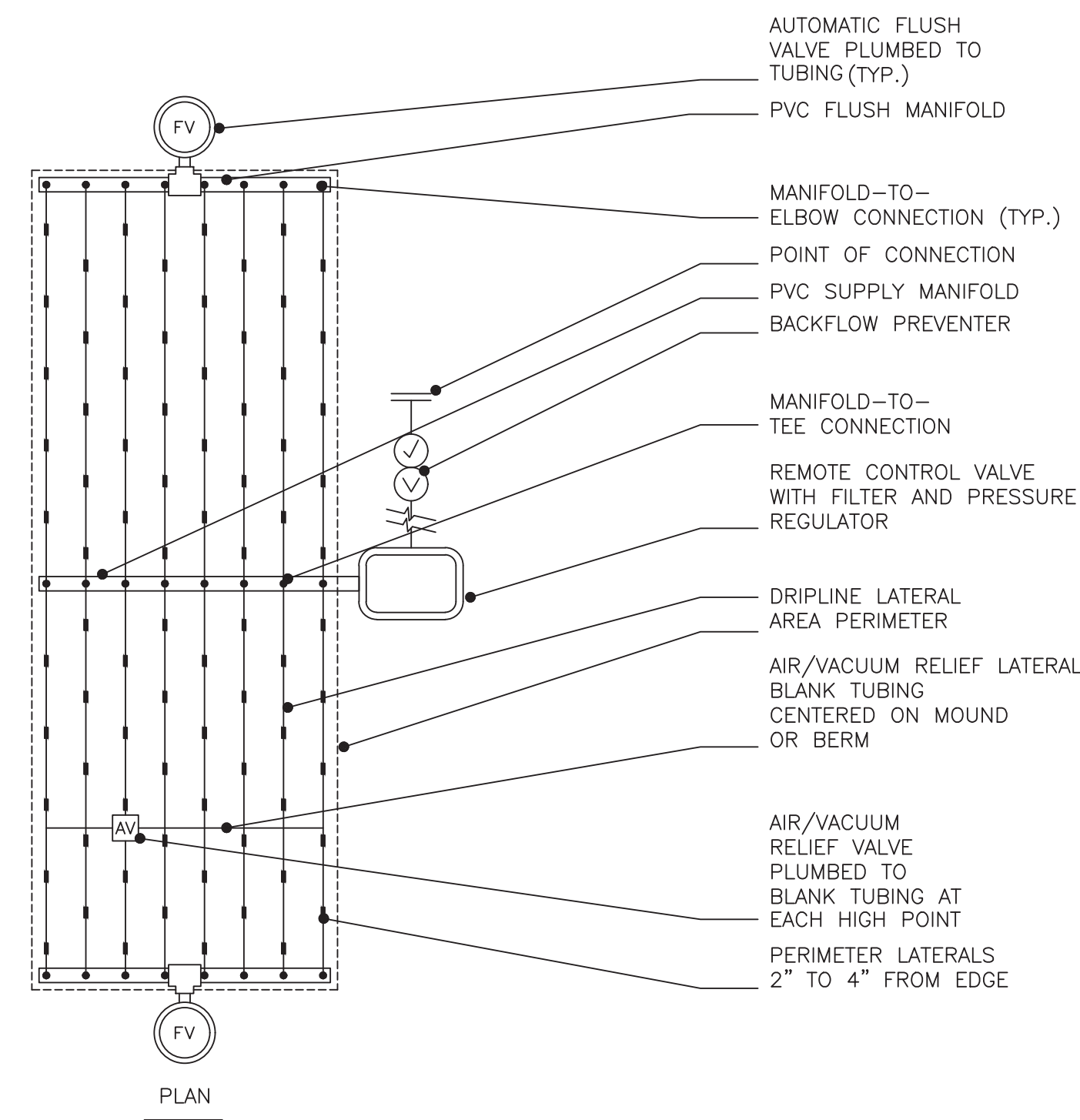




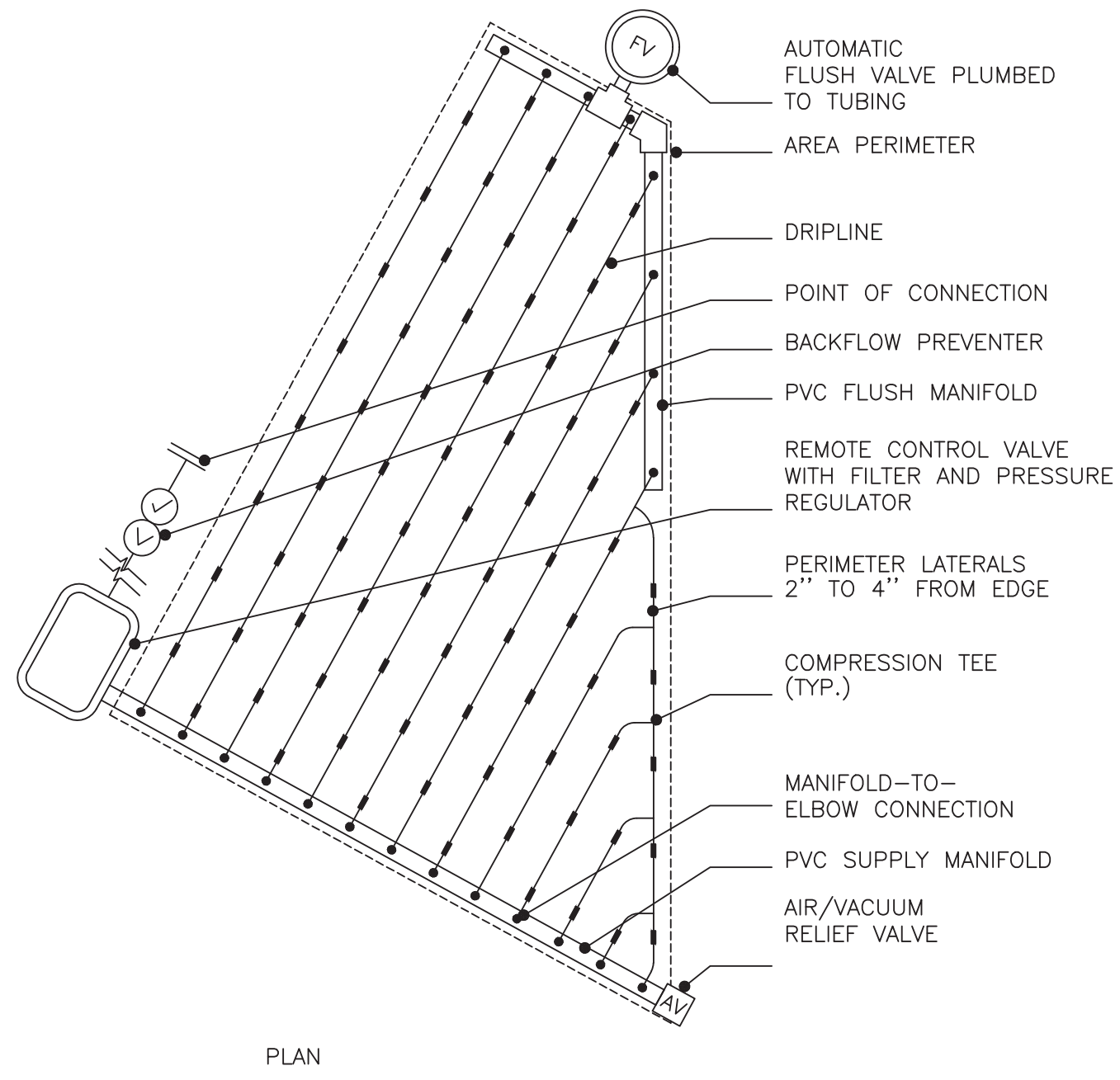
1 MOUND LAYOUT  
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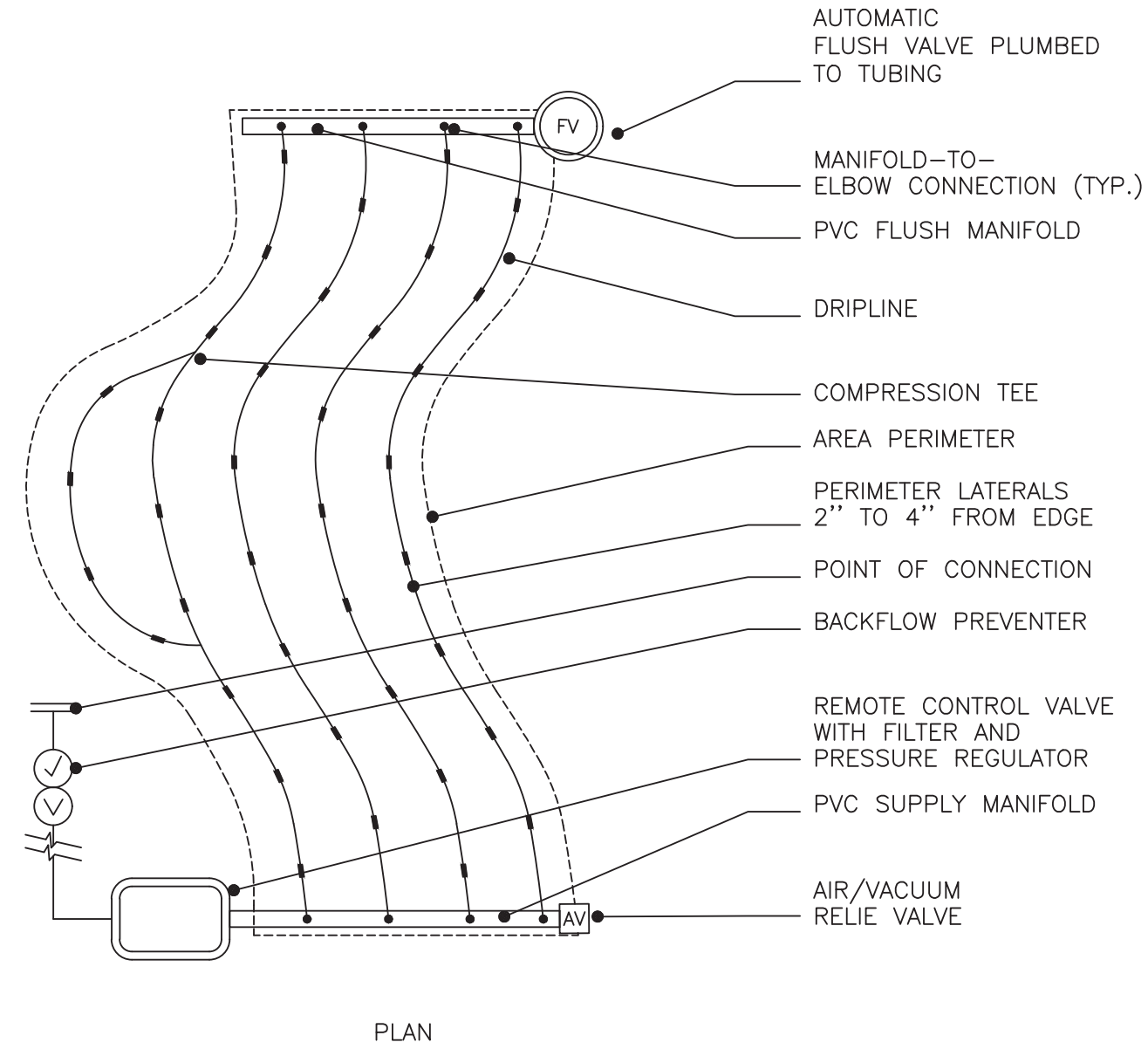
2 END FEED LAYOUT  
SCALE: NONE



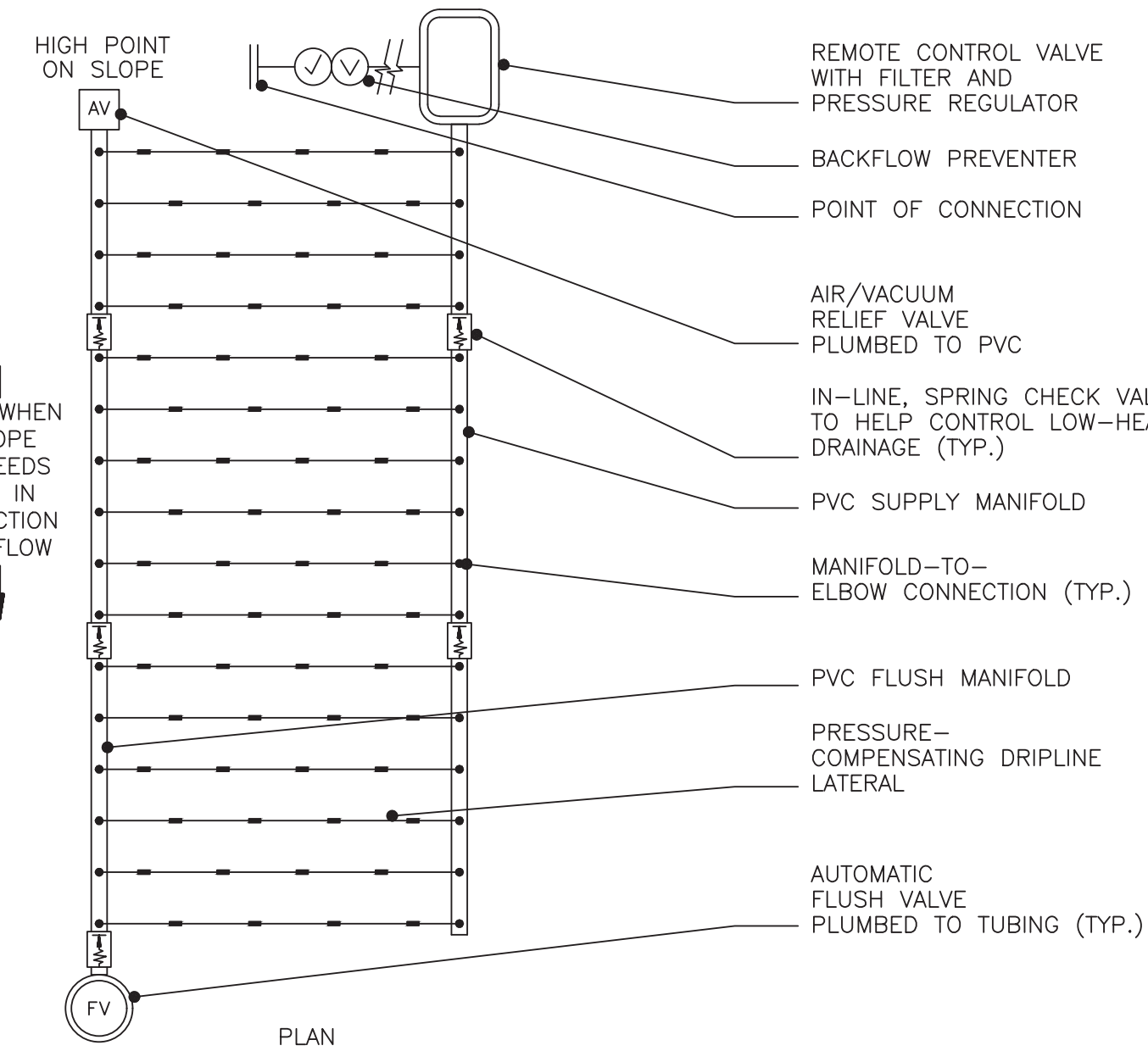
3 CENTER FEED LAYOUT  
SCALE: NONE



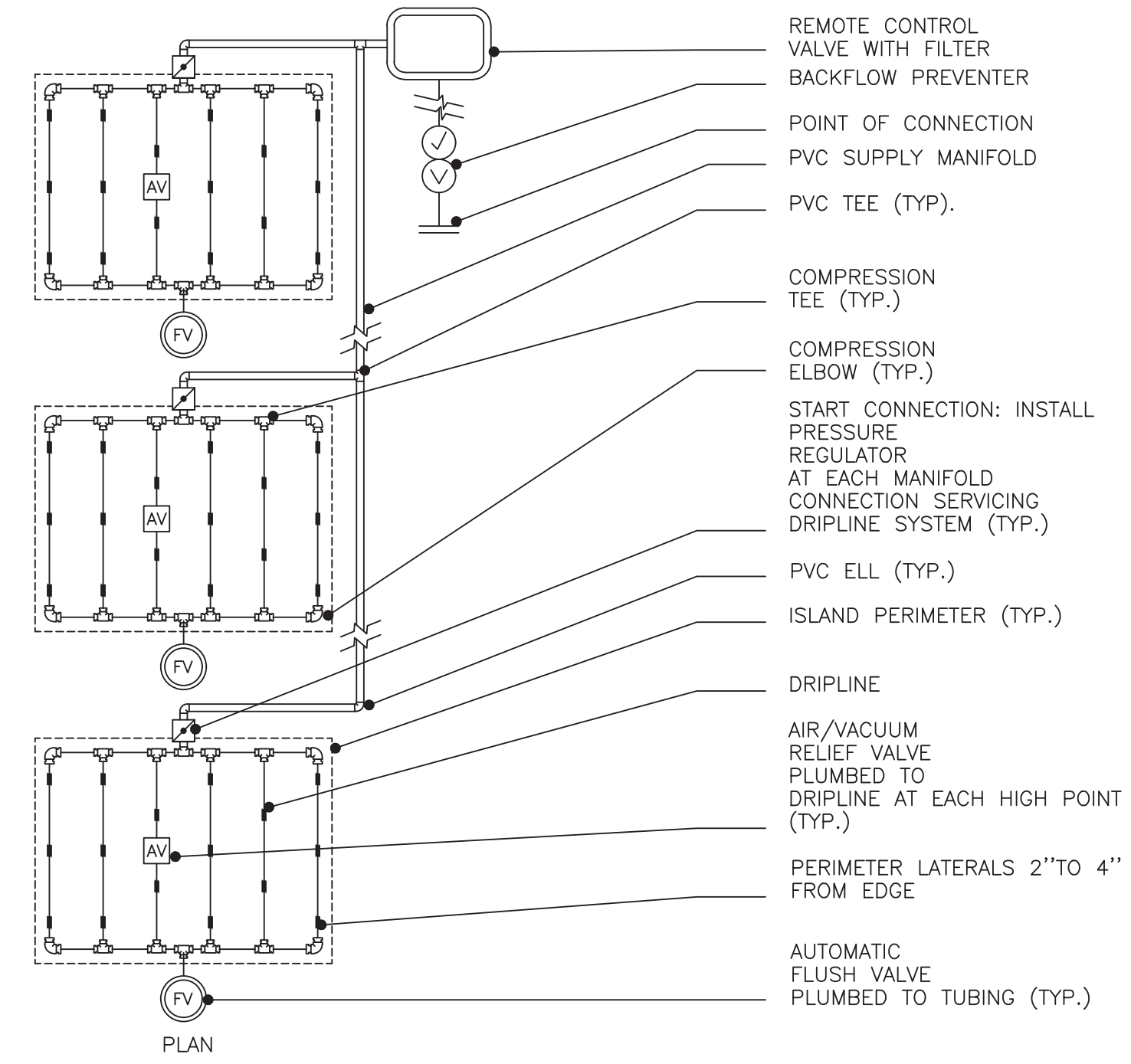
4 IRREGULAR LAYOUT (TRIANGULAR)  
SCALE: NONE



5 IRREGULAR LAYOUT (ODD CURVES)  
SCALE: NONE



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



7 ISLAND LAYOUT  
SCALE: NONE

File Path: z:\cadd\projects\sioux falls spa\irrigation.dwg | saved: 02/22/2022 1:10 AM | editman |

Revisions:	Date:



ARCHITECT/ENGINEER OF RECORD

**ANDERSON**

13605 1st Ave. N. #100 Plymouth, MN 55441  
P 763.412.4000 | F 763.412.4090 | [ae-mn.com](mailto: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
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
08/04/2022
Checked
Drawn

Project Number
438-460
Building Number
Drawing Number
IR503







GENERAL CONSTRUCTION NOTES:

- Reference Standards: Unless noted otherwise, all standards shall be current edition, with latest addenda, if applicable.
- Contractor shall verify all existing dimensions, member sizes, and field conditions prior to any demolition, fabrication, construction, or installation and notify Structural Engineer of Record if conditions, materials, sizes, and dimensions are different from those shown.
- The contract structural drawings and specifications represent the finished structure. Unless otherwise indicated, they do not indicate the means or method of construction. The contractor is solely responsible for the protection of the structure during all phases of demolition, construction, and installation.
- The finished structure has been designed for the loading indicated below. It is the responsibility of the contractor(s) and their specialty Engineer(s) to review and use means and methods to adequately address loading on the structure during construction including, but not limited to, wind, snow, seismic, underpinning, material storage, and equipment.
- Cross reference all dimensions and details with architectural and mechanical drawings before commencing any fabrication and/or construction.
- Details and conditions not specifically shown shall be constructed in accordance with details shown for similar conditions and materials.
- Show drawings prepared by suppliers, sub-contractors, etc. shall be reviewed, coordinated, and signed/stamped by the contractor prior to submitting to the Structural Engineer of Record. The Structural Engineer of Record's review of shop drawings, product data, design calculations, etc., does not relieve the contractor from complying with the contract documents.
- Verify location of all box outs and openings. Opening sizes and locations shown for pipes, ducts, mechanical units, etc. are for general information only and shall be verified with all trades before commencing the work.
- Contractor is solely responsible for protection of the existing building during all phases of construction.
- No structural repairs, corrections, or alterations of work affecting a structural member shall be made without the approval of the Structural Engineer of Record. Design and/or review may be an additional service.
- Do not scale the drawings.

DESIGN CRITERIA LOADS AND STRESSES:

CODES:

- International Building Code (2018)
- Minimum Design Loads for Buildings and Other Structures (ASCE 7-16)

DESIGN LOADS:

SEISMIC DESIGN CRITERIA	
Risk Category	IV
Seismic Importance Factor, $I_e$	1.5
Mapped Spectral Response Acceleration Parameters, $S_a$ and $S_1$	$S_a = 0.090$ g $S_1 = 0.035$ g
Site Class	"D"
Design Spectral Response Acceleration Parameters, $S_{a1}$ and $S_{a2}$	$S_{a1} = 0.096$ g $S_{a2} = 0.059$ g
Seismic Design Category	"A"
Basic Seismic Force-Resisting System	Steel ordinary concentric braced frame and steel ordinary moment frame
Response Modification Coefficients	Steel ordinary concentric braced frame $R = 3.25$ Steel ordinary moment frame $R = 3.0$
Seismic Response Coefficients	$C_s = 0.01$
Design Base Shear	$V = C_s \cdot W$
Analysis Procedure Used	Equivalent Lateral Force Procedure
WIND DESIGN CRITERIA	
Ultimate Design Wind Speed (3-sec gust), $V_{ult}$	120 MPH
Nominal Design Wind Speed (3-sec gust), $V_{nom}$	93 MPH
Risk Category	IV
Wind Exposure	"C"
Internal Pressure Coefficients	$G C_{pi} = \pm 0.18$
ROOF SNOW LOAD DATA*	
Ground Snow Load, $P_g$	40 PSF
Snow Exposure Factor, $C_e$	1.0
Snow Load Importance Factor, $I$	1.2
Thermal Factor, $C_t$	Heated $C_t = 1.0$
Slope Factor, $C_s$	$C_s = 1.0$
Flat Roof Snow Load, $P_f$	Heated $P_f = 35$ PSF + drifting

\*See Plan for Unbalanced Snow Loads & Snow Drift Loads

FLOOR LIVE LOADS:

- 150 PSF Mechanical/Electrical areas  
100 PSF Stairs, and exits

CONCRETE: ( $f'_c$ ) at 28 Days

- 3000 PSI Footings  
3500 PSI Slab on grade [max w/c = 0.45, fly ash not permitted, no entrained air]  
4000 PSI Slab on steel deck, topping slabs [max w/c = 0.45, fly ash not permitted, no entrained air]  
4500 PSI Piers, foundation walls, and exterior slabs [5%-7% air content]  
4500 PSI Retaining walls, basement walls, pile caps, and grade beams  
7000 PSI Non-shrink grout below baseplates

All exterior concrete work shall have 5% to 7% air entrainment.

- STEEL: ( $F_y$ )**
- 60,000 PSI ASTM A615 grade 60 reinforcing  
60,000 PSI ASTM A706 weldable reinforcing  
60,000 PSI ASTM A992 wide-flange shapes  
36,000 PSI ASTM A36 plate, channels, and angles, etc.  
50,000 PSI ASTM A500 grade C structural tubes (HSS)  
40,000 PSI ASTM A500 grade C structural pipe (HSS)  
92,000 PSI ASTM A325 high strength bolts  
36,000 PSI ASTM F1554 threaded anchor rods  
50,000 PSI ASTM A108 headed studs

FOUNDATION LOADS:

2,000 PSF soil bearing, based on soil report prepared by Geotek Engineering & Testing Services, Inc., dated April 17, 2019, (report # 19-225). See Geotek report for required site preparation. Helical Piledown Micropiles, designed for unfactored load indicated on sheet SB102.

LATERAL EARTH PRESSURE:

35 PCF Active Lateral Earth Pressure (Equivalent Fluid Density)

STEEL HELICAL PILES:

- Helical pile contractor shall submit calculations and shop drawings stamped by a licensed Professional Engineer in the state of South Dakota. Shop drawings shall be submitted for review and shall include helical pile components, corrosion protection system, pile attachment and helix details.
- Inspection agency shall keep a record on top of each pile as installed showing location, top and bottom elevations, diameters, grout drop, date installed, type of strata encountered and any other pertinent information.

TEMPORARY BRACING:

- Provide temporary lateral support for all walls where grade varies on the two sides until slab has reached its design strength.
- Provide required temporary bracing for structural steel until permanent bracing and walls are in place.
- Provide temporary bracing for all walls, concrete, masonry, light gage metal, or wood until they are of adequate design strength and are properly anchored in final form.
- Provide temporary shoring for all existing walls, floors, and roof members until new construction is in place and properly anchored or cured in final form.
- All temporary shoring is to be designed by a specialty shoring contractor, by a Professional Engineer licensed in the state of the project, at the expense of the contractor.
- Shore all foundation walls as required before backfilling and compacting.
- Contractor shall provide adequate bracing and shoring during all phases of construction and erection of the structure.

GENERAL FOUNDATION NOTES:

- All foundation excavations, backfill, and compaction shall be inspected and certified by a qualified soils testing firm prior to the construction of any footings. All reports are to be submitted to Structural Engineer of Record in a timely manner.
- Cross reference all architectural, mechanical, electrical, and structural drawings to assure proper dimensions and location of all anchor rods, inserts, etc.
- All footing elevations are shown to top of footings, unless noted otherwise.
- All footings are centered under walls or columns above, unless noted otherwise.
- Continuous wall footings up through 1'-8" wide to be 10" thick. Footings over 1'-8" wide to be 12" thick, unless noted otherwise.
- Provide wall footing reinforcement as follows:  
Footings up through 2'-0" wide = (2)-#5 cont.  
Footings 2'-1" through 3'-0" wide = (3)-#5 cont.  
Footings 3'-1" through 3'-6" wide = (3)-#5 cont. & #5 @ 12" transv.  
  
See details for reinforcing in all footings over 3'-6" wide.
- Provide 90 degree bend in all footing dowels. Cast dowels in footings for columns, piers, and walls above. Dowels to be the same number and size as the vertical reinforcing, unless noted otherwise. See General Concrete Notes or General Masonry Notes for required lap length.
- Rebar and anchor rods to be securely tied in place prior to placing concrete (i.e. no "wet-sticking" is allowed).

GENERAL CONCRETE NOTES:

- Concrete construction shall comply with the provisions of the "Building Code Requirements for Structural Concrete," ACI 318-14.
- The "ACI Detailing Manual" shall govern detailing and fabrication of all reinforcing steel, unless noted otherwise.
- Reinforcing steel supplier to provide all accessories, chairs, spacing bars, and supports necessary to secure steel in accordance with "Manual of Standard Practice" by the Concrete Reinforcing Steel Institute. Clay brick is not allowed.
- Provide minimum clear concrete cover for all reinforcement as follows:  
  
Cast against and permanently exposed to earth = 3"  
  
Exposed to earth or weather:  
#5 bars and smaller = 1 1/2"  
#6 bars and larger = 2"  
  
Not exposed to weather or in contact with ground:  
Slabs, walls, & joists (#3 to #11 bars) = 3/4"  
Beams, girders and columns, primary reinforcement, ties, stirrups, or spirals = 1 1/2"  
  
Do not provide control joints in structural slabs or walls, provide a minimum of (2)-#6 bars each side of opening. Bars are to extend a minimum of 3'-0" beyond corners of openings, unless noted otherwise. Provide (1)-#5 x 4'-0" longitudinal bar at each corner of opening in each face of wall or slab.
- Provide minimum concrete wall reinforcing as follows: (unless noted otherwise)  
  
6" & 8" concrete walls:  
#4 @ 16" o.c. vert & #4 @ 10" o.c. horiz (center in wall)  
  
10" concrete walls:  
#4 @ 16" o.c. vert & #4 @ 16" o.c. horiz (each face)  
  
12" concrete walls:  
#4 @ 16" o.c. vert & #4 @ 12" o.c. horiz (each face)  
  
16" concrete walls:  
#4 @ 16" o.c. vert & #4 @ 12" o.c. horiz (each face)
- Provide vertical control joints in exposed concrete walls at a maximum of 30'-0" intervals. See typical details for Control Joint and Construction Joint Detail.
- No aluminum of any type shall be allowed in the concrete work, unless coated to prevent reaction with concrete.
- Maximum outside diameter of embedded conduit shall be no larger than 1/3 of the slab thickness. This restriction applies to the total height at conduit crossings. The conduit shall be placed such that it does not significantly impair the strength of construction.
- Post-installed anchors in concrete shall be ICC approved for use in cracked concrete. Approved anchors shall be Hilli Kwik Bolt TZ Expansion Anchors (ESR-1917) or a Hilli HIT-HY 200 Adhesive Anchoring System (ESR-3187), unless noted otherwise. Install anchors in strict conformance with anchor manufacturer's instructions. Anchor substitutions shall not be made without written permission from the Structural Engineer of Record.
- No pipe or conduit of any type shall be placed in structural concrete members without written approval from the Structural Engineer of Record.
- Composite slabs and beams are designed to support the dead load of the wet concrete plus normal construction loads without requiring temporary shoring. Some deflection of the deck and beams will occur when the wet concrete is placed. The contractor shall include in the bid the cost of the additional concrete quantity caused by the deflection of the beams and deck.
- Do not weld rebar, unless Weldable Rebar is provided and its use is approved by the Structural Engineer of Record.
- Lap splice lengths in continuous reinforcing shall be tension lap splices and are shown below, unless noted otherwise on drawings or details:

$f'_c = 3000$  PSI:

CLASS B TENSION LAP SPlice LENGTH					
Bar Size	Top Bars		Other Bars		
	Case 1	Case 2	Case 1	Case 2	
#3	28"	42"	22"	32"	
#4	37"	56"	29"	43"	
#5	47"	70"	36"	54"	
#6	56"	84"	43"	64"	
#7	81"	122"	63"	94"	
#8	93"	139"	72"	107"	
#9	105"	157"	81"	121"	
#10	118"	177"	91"	136"	
#11	131"	196"	101"	151"	

$f'_c = 4000$  PSI:

CLASS B TENSION LAP SPlice LENGTH					
Bar Size	Top Bars		Other Bars		
	Case 1	Case 2	Case 1	Case 2	
#3	24"	36"	19"	28"	
#4	32"	48"	25"	37"	
#5	40"	60"	31"	47"	
#6	48"	72"	37"	56"	
#7	70"	106"	54"	81"	
#8	80"	121"	62"	93"	
#9	91"	136"	70"	105"	
#10	102"	153"	79"	118"	
#11	113"	170"	87"	131"	

$f'_c = 5000$  PSI:

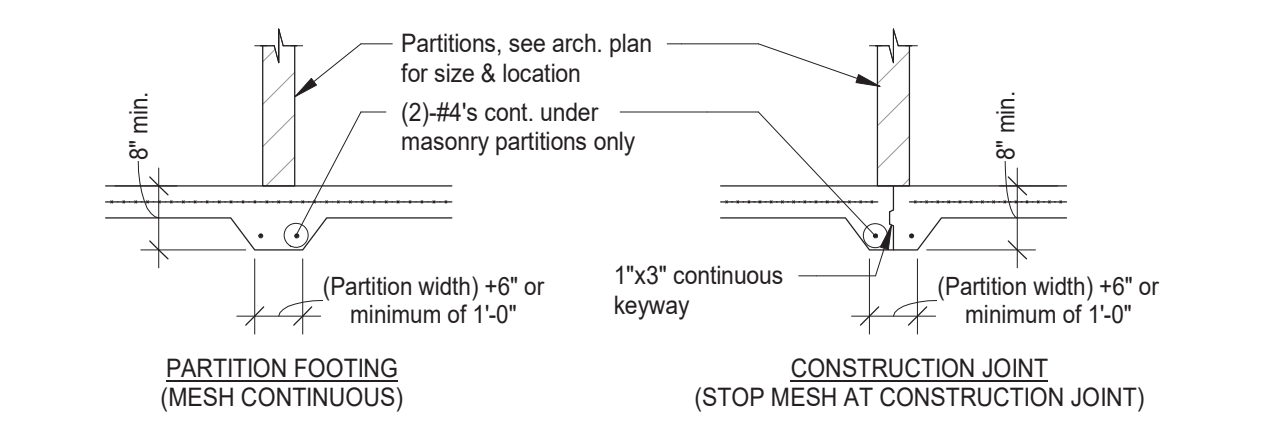
CLASS B TENSION LAP SPlice LENGTH					
Bar Size	Top Bars		Other Bars		
	Case 1	Case 2	Case 1	Case 2	
#3	22"	33"	17"	25"	
#4	29"	43"	22"	33"	
#5	36"	53"	28"	41"	
#6	43"	65"	33"	50"	
#7	62"	95"	48"	73"	
#8	72"	108"	55"	83"	
#9	81"	122"	62"	94"	
#10	91"	137"	70"	105"	
#11	101"	152"	78"	117"	

Notes:

- Tables are for normal weight concrete with Grade 60 uncoated reinforcing bars. For lightweight aggregate, multiply the values in the table by 1.33.
- Top bars are horizontal bars with more than 12" of concrete cast below the bars.
- Compression lap splices (only where indicated on drawings) for Grade 60 uncoated reinforcing bars shall be 30 times the bar diameter.
- Cases 1 and 2 are defined as follows:  
Case 1: Concrete cover at least 1.0 times the bar diameter and center-to-center spacing of at least 2.0 times the bar diameter.  
Case 2: Concrete cover less than 1.0 times or center-to-center spacing less than 2.0 times the bar diameter.  
All other members:  
Case 1: Concrete cover at least 1.0 times the bar diameter and center-to-center spacing at least 3.0 times the bar diameter.  
Case 2: Concrete cover less than 1.0 times the bar diameter or center-to-center spacing less than 3.0 times the bar diameter.

CONCRETE SLAB AND JOINT NOTES AND DETAILS:

- Control joints (C.J.) - Locate saw cut control joints at column centerlines and at the following maximum spacing to create approximately square panels:  
a. Concrete slabs on grade:  
1. 4'-0" thick slab = 12'-0"  
2. Coordinate control joint layout with floor finish requirements.  
b. Control joint depth to be 1", using an early entry saw.  
c. Control joints with an early entry saw as soon as possible without damage to the slab surface.
- Provide 6x6-W14W14 W.W.F. in all slabs on grade, unless noted otherwise. All mesh to be lapped a minimum of 12". Provide prefabricated sheets in lieu of rolled mesh. Reinforce with (2)-#5 x 3'-0" long at all re-entrant (inside) corners.
- Place slab reinforcing between 1/4 and 1/3 of slab thickness down from top of slab.
- Coordinate all floor finishes, slopes, recesses, floor drains, gutters, etc. with all disciplines (arch., mech., etc.).
- Provide a preformed isolation joint in concrete slab at columns. The isolation joint can be either a circular or diamond shaped pattern.
- Do not provide control joints in structural slabs, slabs on metal deck, or precast topping, unless noted otherwise.
- Provide thickened slabs at masonry partitions and construction joints as detailed below.



TYPICAL LINTEL TYPES AND NOTES:

- Verify size and location of all mechanical, U.V., U.H., louver, and duct openings with mechanical contractor.
- For all openings through masonry walls not shown, including mechanical and electrical openings, provide one of the following: (unless noted otherwise)  
a. Steel angle lintels:  
(1) L 3 1/2" x 3 1/2" x 1/4" for each 4" thickness of wall for spans up to 4'-0".  
(1) L 5" x 3 1/2" x 5/16" (LLV) for each 4" thickness of wall for spans up to 5'-0".  
(1) L 6" x 3 1/2" x 5/16" (LLV) for each 4" thickness of wall for spans up to 6'-0".  
b. All steel lintel beams to bear a minimum of 8" on grouted or solid masonry, unless noted otherwise. All steel lintel angles to bear a minimum of 6" on solid or grouted masonry, unless noted otherwise.
- All lintels in exterior walls to be hot-dipped galvanized, unless noted otherwise.

GENERAL STEEL NOTES:

- Construction of structural steel shall comply with the provisions of "AISC 360-16 Specification for Structural Steel Buildings" and "AISC 341-16 Seismic Provisions for Structural Steel Buildings."
- All shop connections shall be welded or bolted, field connections shall be bolted, unless noted otherwise. Bolted connections shall be Bearing Type (nut-tightened) and shall be made with a minimum of 3/4" ASTM A325-N Bolts. Direct-Tension Indicators are acceptable substitutions.
- All welds as per latest specifications of the AWS - E70xx electrodes.
- Before encasing steel columns in concrete or masonry, paint column bases and tops of anchor rods with asphaltic paint.
- The structural fabricator shall furnish all plates and angles cast in bond beams, concrete walls, or columns to support steel joists, beams, and steel deck.
- "C" denotes beam is continuous over columns, "S" denotes beam simple shear splice.
- All steel beams shall be true to line and elevation, column base plates grouted, and anchor rods tight before any loads are placed.
- All column base and cap plates to be welded around all sides.
- All welds not specified are 3/16" fillet weld, continuous and/or all around.
- Structural fabricators shall show all welding requirements on structural steel shop drawings.
- Fabricator shall select AISC simple shear connections for composite beams capable of carrying the reaction load indicated or the reaction load calculated and based on tributary area or at a minimum 75% of the total shear capacity. Connection design shall also be checked for blast reaction given on sheet SG000.
- Cuts, holes, or openings required in structural steel members for the work of other trades shall be shown on the shop drawings. Burning of holes and cuts in structural steel members in the field shall not be allowed, except by written permission from the Structural Engineer of Record.
- The top of all beams receiving shear studs shall not be painted.
- The contractor shall provide 4000 pounds of structural steel contingency material to be fabricated and erected as directed by the Structural Engineer of Record. Cost of material, labor, delivery, and associated services are to be included in the bid amount.
- All connections not specifically detailed shall be designed by a Professional Engineer licensed in the state where the project is located. Detailing shall be performed using rational engineering design and standard practice in conformance with the contract documents. The general details shown on the drawings are approximate only and do not indicate the required number of bolts, weld requirements, etc., unless specifically noted.
- Shear stud connectors shall be manufactured by Nelson Stud Welding Co. or equal conforming to ASTM A108, and shall be field applied with automatic welding equipment through the composite steel deck with the use of a proper ferrule. Remove ferrules after welding.
- Location, type, diameter, length, and spacing of shear stud connectors shall be detailed on the shop drawings.

STEEL DECK NOTES:

- All steel decking shall comply with the specifications of the Steel Deck Institute (SDI). Thickness, type, and properties of decks shall be as shown on the drawings.
- All steel deck shall span a minimum of three spans, unless otherwise approved.
- Field weld 1 1/2" steel roof deck to supporting members with 5/8" puddle welds at 36/4 pattern. Where areas of warped deck occur, field weld steel deck maximum 6" o.c. at all supports. Typical, unless noted otherwise.
- 1 1/2" steel roof deck shall have: (1)-#10 TEK screw side lap connector installed between adjacent supports (unless noted otherwise).
- Composite steel deck with concrete slabs shall be welded to all supporting members with 5/8" puddle welds at 36/4 pattern. For deck units with spans greater than 5'-0", sidelaps and perimeter edges of units between span supports shall be fastened at intervals not exceeding 36" o.c., using one of the following methods:  
a) #10 self-drilling screws  
b) Crimp or button punch  
c) Arc puddle welds 5/8" minimum visible diameter, or minimum 1" long fillet weld.
- See plans and details for composite deck thickness, depth, and profile. All composite steel deck to be galvanized with G-60 coating.
- Steel conform deck shall be attached at all supports sufficiently to prevent movement. Steel deck fasteners are not required for conform decks supporting concrete stoop slabs.
- For steel conform deck supporting interior floor slabs attach deck to supporting members with 5/8" puddle welds per the following pattern layout:  
1.60 Conform Deck - 30/4 weld pattern  
1.00 Conform Deck - 33/4 weld pattern  
1.30 Conform Deck - 32/4 weld pattern  
2.00 Conform Deck - 36/4 weld pattern

ROOF BEAM/ GIRDER BLAST REACTION TABLE

DESCRIPTION	SPAN	END REACTION (kips, LRFD)
W12x14 BEAM	8'-0" TO 12'-2"	50
W12x26 BEAM	12'-2"	90
W14x22 BEAM	19'-8"	55
W16x36 BEAM	12'-2"	140
W18x35 BEAM	29'-5"	78
W18x46 BEAM	20'-0"	115
W12x19 GIRDER	17'-0"	31
W14x22 GIRDER	8'-1" TO 18'-3"	44
W14x30 GIRDER	19'-2"	42
W16x26 GIRDER	15'-10" TO 20'-0"	50
W18x35 GIRDER	21'-1" TO 23'-10"	76
W18x35 GIRDER	20'-0"	54
W21x44 GIRDER	20'-0"	145
W24x55 GIRDER	26'-7"	145

ROOF MEMBER REACTION TABLE NOTES:

- CONNECTIONS MUST BE DESIGNED FOR THE REACTION LOADS LISTED IN THE TABLES AT A MINIMUM. THESE SHOULD NOT BE COMBINED WITH OTHER LOADS (I.E., BLAST DESIGN COMBO = 1.0 \* BLAST)
- REACTIONS ARE VERTICAL AND ARE TO BE CONSIDERED IN THE UP AND DOWN DIRECTION
- REACTIONS ARE EQUIVALENT STATIC REACTIONS REPORTED AS ULTIMATE LOADS FOR CONNECTION DESIGN PER LRFD. IF ASD IS USED, DIVIDE THE REACTIONS BY A FACTOR OF 1.5. USE PROPER MATERIAL AND LIMIT STATE-SPECIFIC REDUCTION FACTOR ( $\phi$  OR  $\Omega$ ) PER CODE FOR CONNECTION DESIGN.

VIEW KEY

NAME

LEVEL NAME

100'-0"

ELEVATION

INDICATES DIRECTION OF TRUE NORTH

PLAN OR DETAIL NUMBER

PLAN OR DETAIL NAME

VIEW NAME

1

1/8" = 1'-0"

PLAN OR DETAIL SCALE

INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS

DETAIL REFERRED TO BY SECTION CUT

SHEET DETAIL IS LOCATED ON

LINE TYPE KEY:

NEW WORK

(DARK SOLID LINE/LINE WEIGHT WILL VARY)

NEW WORK BELOW OR BEYOND VIEW

(DARK DASH LINE)

EXISTING TO BE REMOVED

(DARK DASH LINE)

EXISTING WORK TO REMAIN

(HALFTONED SOLID LINE/LINE WEIGHT WILL VARY)

NON STRUCTURAL

(HALFTONED LIGHT SOLID LINE)

GRID OR CENTERLINE

MATERIAL LEGEND:

CONCRETE - CAST-IN-PLACE

MASONRY

EXISTING

METAL / COLD-FORM STUD

EARTH

PRECAST CONCRETE

GRAVEL OR GRANULAR FILL

STEEL

GROUT OR DRYPACK OR SAND

CX

PX

COLUMN MARK

PIER MARK

SfR(X'-X'')

FOOTING MARK (TOP ELEVATION)

STRUCTURAL SYMBOL LIST

GENERAL SYMBOLS:		
SYMBOL	DESCRIPTION	DETAIL REFERENCE
(100'-0")	TOP OF ELEVATION	N/A

FOUNDATION SYMBOLS:		
SYMBOL	DESCRIPTION	DETAIL REFERENCE
-----o	STEP IN FOOTING	1/SB200

STEEL SYMBOLS:		
SYMBOL	DESCRIPTION	DETAIL REFERENCE
←	STEEL DECK (DIRECTION)	SEE PLAN NOTES
(##)	HEADED STUD ANCHORS (HSA) ON BEAM	
— — —	BEAM SPLICE	3/SF220
▶	MOMENT CONNECTION	
—/—/—/	BRACE ABOVE	SEE FRAME ELEVATION
—\—\—\	BRACE BELOW	SEE FRAME ELEVATION

STRUCTURAL SHEET INDEX	
SHEET NUMBER	SHEET NAME
SG000	GENERAL NOTES
SB001	TESTING SCHEDULES
SB100	PIPE BASEMENT FOUNDATION PLAN
SB101	GROUND LEVEL FOUNDATION PLAN
SB102	GROUND LEVEL COLUMN LOADS
SB103	ENLARGED PLANS
SB200	SECTIONS - FOUNDATION
SB201	SECTIONS - FOUNDATION
SB202	FIRST FLOOR & ROOF FRAMING PLAN
SB203	ROOF FRAMING PLAN
SB204	SECTIONS - ROOF
SB205	SECTIONS - ROOF
SB206	BRACE FRAME ELEVATIONS & SECTIONS
GRAND TOTAL: 14	

Revisions:

Date:

CONSULTANT

IMEG

12755 HIGHWAY 55, SUITE 100  
MINNEAPOLIS, MN 55441  
763.545.9186 FAX: 763.541.0086  
www.imegcorp.com  
PROJECT # 19004249.04

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ARCHITECT/ENGINEER OF RECORD

STAMP

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title

GENERAL NOTES

Approved:

Phase

BID DOCUMENTS

Project Title

CONSTRUCT NEW SPS

Location

Sioux Falls, SD.

Issue Date

08/04/2022

Checked

MPM/TGL

Drawn

MAQ

Project Number

438-460

Building Number

5

Drawing Number

SG000

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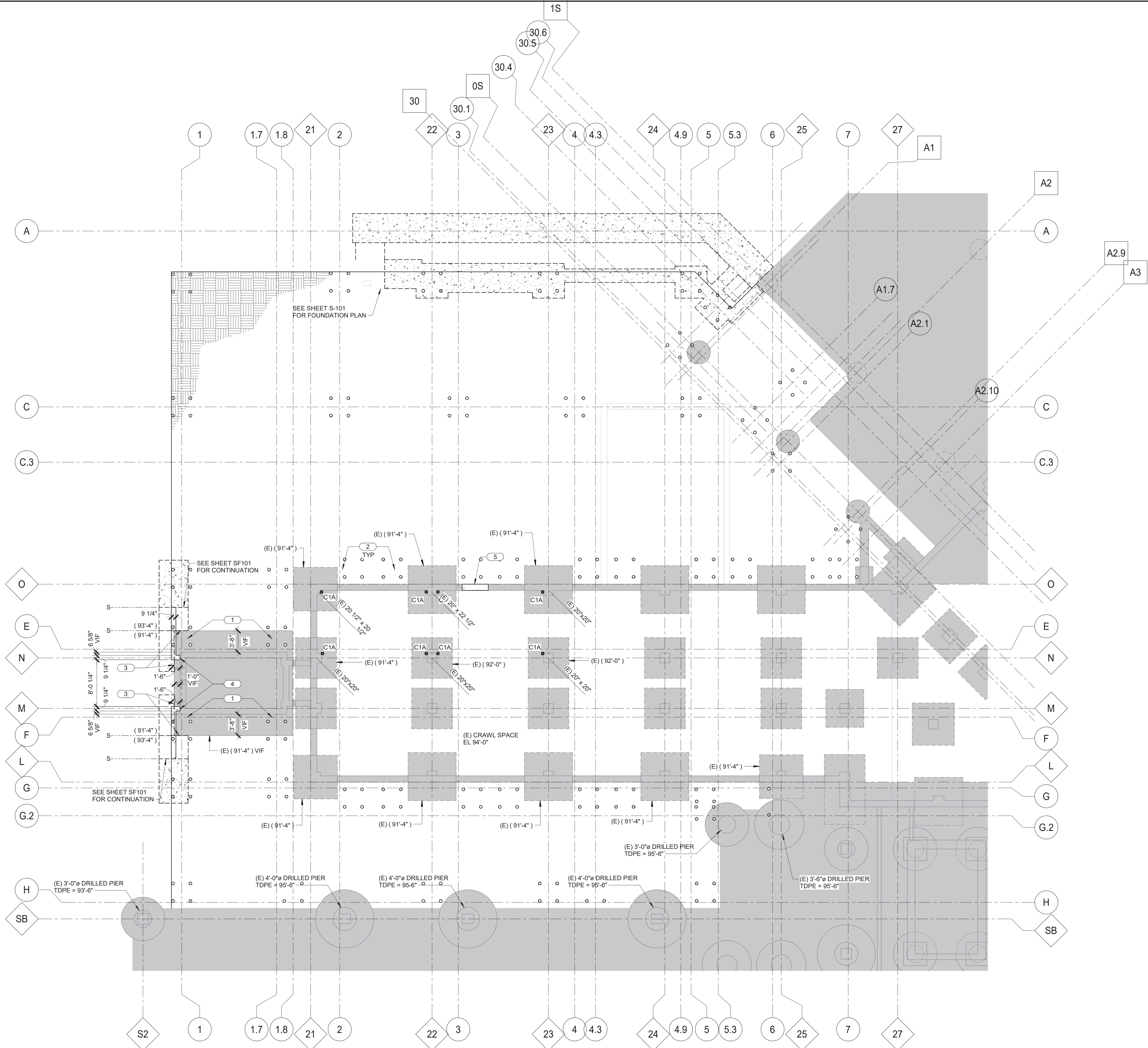
VA FORM 08 - 6231 1 2 3 4 5 6 7 8 9 10



## SG001



TRUE NORTH  
1  
PIPE BASEMENT FOUNDATION PLAN  
1/8" = 1'-0"



- 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 OPSG 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 ARCHITECTS 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 & SLAB 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 MICRO PILE THROUGH FOUNDATION AT STAIR TOWER.
  - 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 EMBED).

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.

Revisions:	Date:

**CONSULTANT**

**IMEG**  
12755 HIGHWAY 55, SUITE 100  
MINNEAPOLIS, MN 55411  
763.545.9186 FAX: 763.541.0886  
www.imegcorp.com  
PROJECT # 19004249.04

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REFERENCE SCALE IN INCHES  
0 1 2 3

**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 # 19004249.04

STAMP

11128  
MICHAEL P. MERRON  
Professional Engineer  
MINNESOTA  
8-4-2022

Office of  
Construction  
and Facilities  
Management

VA U.S. Department  
of Veterans  
Affairs

Drawing Title  
**PIPE BASEMENT FOUNDATION  
PLAN**

Approved:

Phase  
**BID DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**CONSTRUCT NEW SPS**

Location  
Sioux Falls, SD.

Issue Date  
08/04/2022

Checked  
MPM/TGL

Drawn  
MAQ

Project Number  
438-460

Building Number  
5

Drawing Number  
SB100

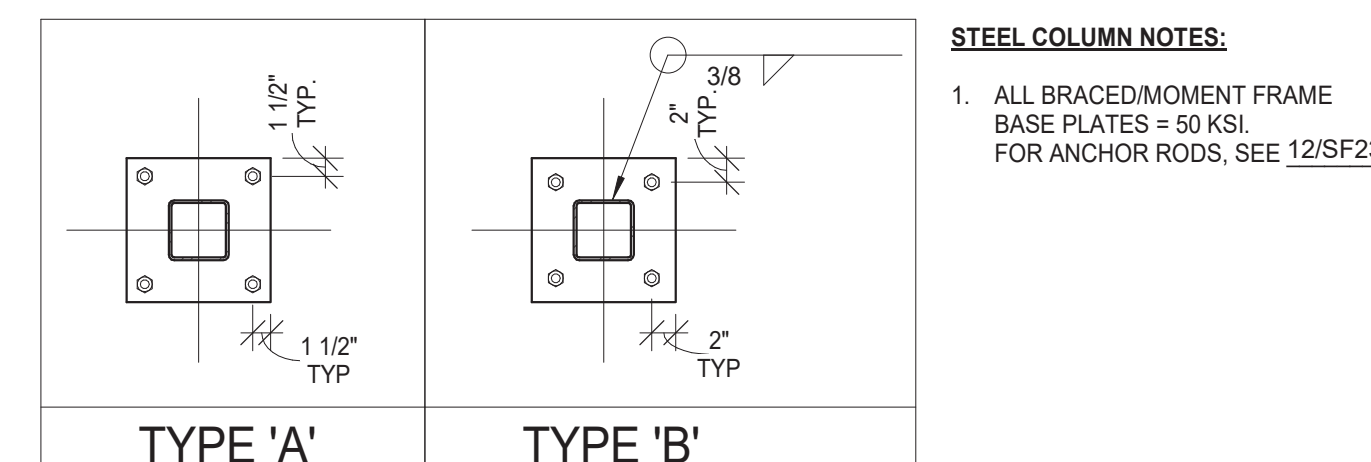


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BM 360719004249.04 - VA-Vnash DC-VA Sioux Falls New SPS C-nt  
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VA FORM 08 - 6231

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.

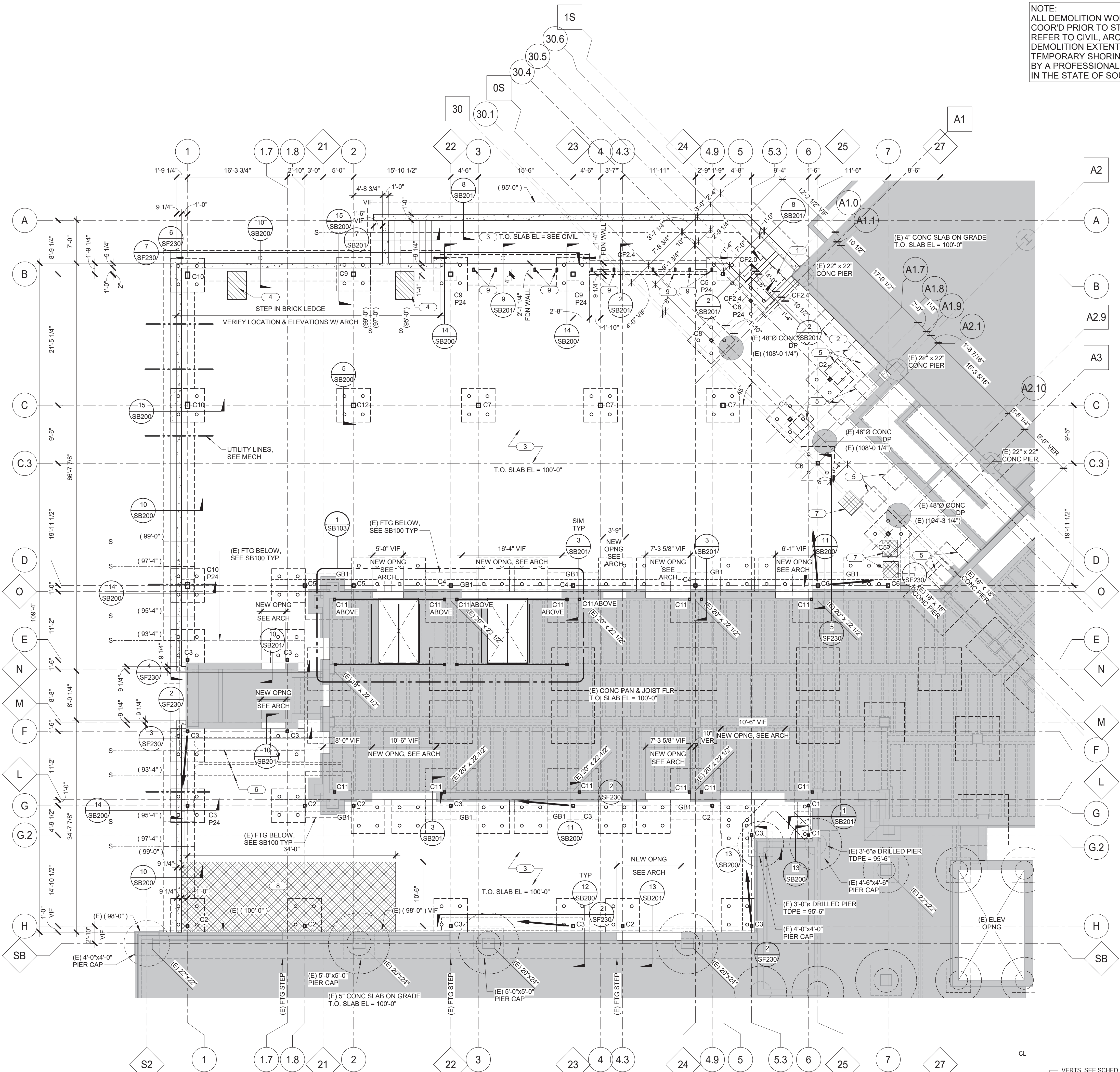
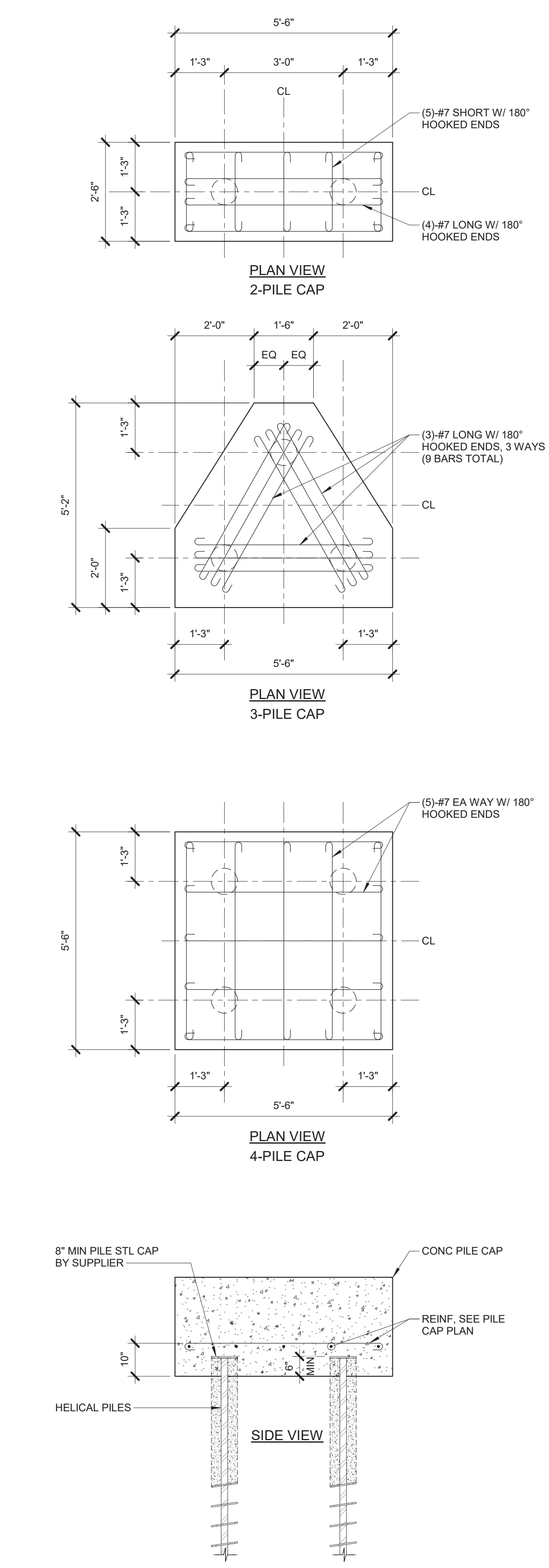
- GENERAL PLAN NOTES: FOUNDATION**
- = INDICATES MECH LINE CROSSING FTG (NOT ALL SHOWN).
  - 1. VERIFY ALL DIMENSIONS W/ ARCH DRAWINGS.
  - 2. DO NOT SCALE DRAWINGS.
  - 3. ELEVATIONS ARE BASED ON THE GROUND LEVEL ELEVATION OF 100'-0" EQUIVALENT TO CIVIL ELEVATION OF 1499.48'
  - 4. SEE ARCH DWGS FOR LOCATION OF WALLS NOT DIMENSIONED ON PLAN.
  - 5. CX INDICATES STEEL COLUMN. SEE THIS SHEET FOR SCHED.
  - 6. PX INDICATES CONC PIER BELOW GRADE. SEE THIS SHEET FOR SCHED.
  - 7. CFX X INDICATES CONCRETE FOOTING. SEE THIS SHEET FOR SCHEDULE.
  - 8. GBX INDICATES CONCRETE GRADE BEAM. SEE DETAILS FOR SIZE AND REINFORCING. TOP OF GRADE BEAM EL = (99'-0")
  - 9. TYPICAL EXTERIOR T.O. FOOTING & PILE CAP EL = (99'-0") UON TYPICAL INTERIOR T.O. FOOTING, GRADE BM & PILE CAP EL = (99'-0")
  - 10. TYP STEPPED FTG. SEE SECTION 1/SB200.
  - 11. TYP ANCHOR ROD DETAIL. SEE SECTION 4/SB200.
  - 12. FOR TYP CONC FDN WALL CORNER DETAILS RETAINING EARTH. SEE SECTION 8/SB200.
  - 13. FOR TYP CONC FDN WALL CONTROL JT. SEE SECTION 6/SB200.
  - 14. FOR TYP CONC FDN WALL CONSTR JT. SEE SECTION 7/SB200.
  - 15. FOR TYP ADDL REINF AT CONC WALL OPGS LARGER THAN 12" IN ANY DIRECTION. SEE SECTION 9/SB200.
  - 16. CONTRACTOR TO VERIFY UNDERGROUND UTILITIES LOCATIONS AND INVERT ELEVATIONS. DROP TOP OF FTG ELEVATIONS AS REQD TO ALLOW MECH PIPE TO PASS OVER FTG.
  - 17. PROVIDE PIPE SLEEVES AT ALL LOCATIONS WHERE MECH PIPES PENETRATE WALL. VERIFY LOCATIONS WITH MECH DWGS. SEE SECTION 2/SB200.
  - 18. SEE GENERAL NOTES FOR THICKENED SLABS AT CMU PARTITION WALLS.
  - 19. REFER TO ARCHITECTS DRAWINGS FOR BELOW GRADE WATERPROOFING DETAILS.
  - 20. VERIFY DEPRESSED OR RECESSED SLAB LOCATIONS & DIMENSIONS WITH ARCHITECT.
  - 21. ALL EXTERIOR STEEL TO BE HOT-DIPPED GALVANIZED.
  - 22. CONTRACTOR TO FIELD VERIFY EXISTING DIMENSIONS & ELEVATIONS.
  - 23. CONTRACTOR TO LOCATE EXISTING REINFORCING IN EXISTING WALLS & SLAB AS REQUIRED.
- KEY PLAN NOTES: FOUNDATION**
- 1. 5" MIN CONC STOOP 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.
  - 2. PROVIDE THICKENED SLAB 12" DEEP x 24" WIDE AT BASE OF STAIR W/ (2) #5 CONT. COORD LOCATION & LENGTH W/ ARCH.
  - 3. 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.
  - 4. RECESS SLAB AT SHOWERS. SEE ARCH.
  - 5. PROVIDE 3'-0"x3'-0"x1'-0" THICKENED SLAB AT STAIR POSTS W/ (3) #5 EA WAY BOT. GO TO COORD QUANTITIES & LOCATIONS W/ STAIR/LANDING SUPPLIER.
  - 6. UNDERGROUND DUCT. SEE MECH FOR LOCATION, DEPTH AND SIZE. SEE DETAIL 11/SB201.
  - 7. 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.
  - 8. PROVIDE 6" CONCRETE HOUSEKEEPING PAD UNDER MECHANICAL UNITS. SEE MECHANICAL FOR QUANTITY, SIZE & LOCATION. REINFORCE PAD W/ #4 @ 12" OC EACH WAY. SEE 2/SF102.
  - 9. PROVIDE HSS8x3x3/8" POST EACH SIDE OF WINDOW. SEE 14/SB201. COORDINATE LOCATIONS W/ ARCH.

STEEL COLUMN SCHEDULE					
MARK	SIZE	BASE PL SIZE	BASE PL TYPE	ANCHOR BOLTS	BOT. OF BASE PL
C1	HSS 4x4x1/4	3/4"x10"x10"	SEE 3/SB201	(4) 3/4"	99'-2"
C1A	HSS 4x4x1/4	SEE 3/SB201	SEE 3/SB201	SEE 3/SB201	91'-4" VIF
C2	HSS 5x5x1/4	3/4"x11"x11"	A	(4) 3/4"	99'-2"
C3	HSS 5x5x3/8	3/4"x11"x11"	A	(4) 1"	99'-2"
C4	HSS 6x6x3/8	3/4"x12"x12"	A	(4) 3/4"	99'-2"
C5	HSS 6x6x5/16	3/4"x12"x12"	A	(4) 3/4"	99'-2"
C6	HSS 6x6x1/2	3/4"x12"x12"	A	(4) 1"	99'-2"
C7	HSS 8x8x3/8	1"x14"x14"	A	(4) 3/4"	99'-2"
C8	HSS 5x5x5/16	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"
C10	HSS 12x8x5/8	1 1/2"x16"x20"	B	(4) 1 1/4"	99'-2"
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"



CONCRETE PIER SCHEDULE			
MARK	SIZE	VERTS	#3 TIES
P24	24"x24"	(8) #7	@ 12" OC

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



CONSULTANT

**IMEG**

12705 HIGHWAY 55, SUITE 100  
MINNEAPOLIS, MN 55441  
763.545.9186 FAX: 763.541.0886  
www.imegcorp.com  
PROJECT # 19004249.04

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**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 # 19004249.04

STAMP

*Michael P. Merron*

Professional Professional Engineer  
MEG. NO.  
MICHAEL P. MERRON  
SOUTH DAKOTA  
8-4-2022

Office of Construction and Facilities Management

**VA** U.S. Department of Veterans Affairs

Drawing Title

**GROUND LEVEL FOUNDATION PLAN**

Approved:

Phase

**BID DOCUMENTS**

Project Title

**CONSTRUCT NEW SPS**

Location

**Sioux Falls, SD.**

Issue Date

**08/04/2022**

Checked

**MPM/TGL**

Drawn

**MAQ**

Project Number

**438-460**

Building Number

**5**

Drawing Number

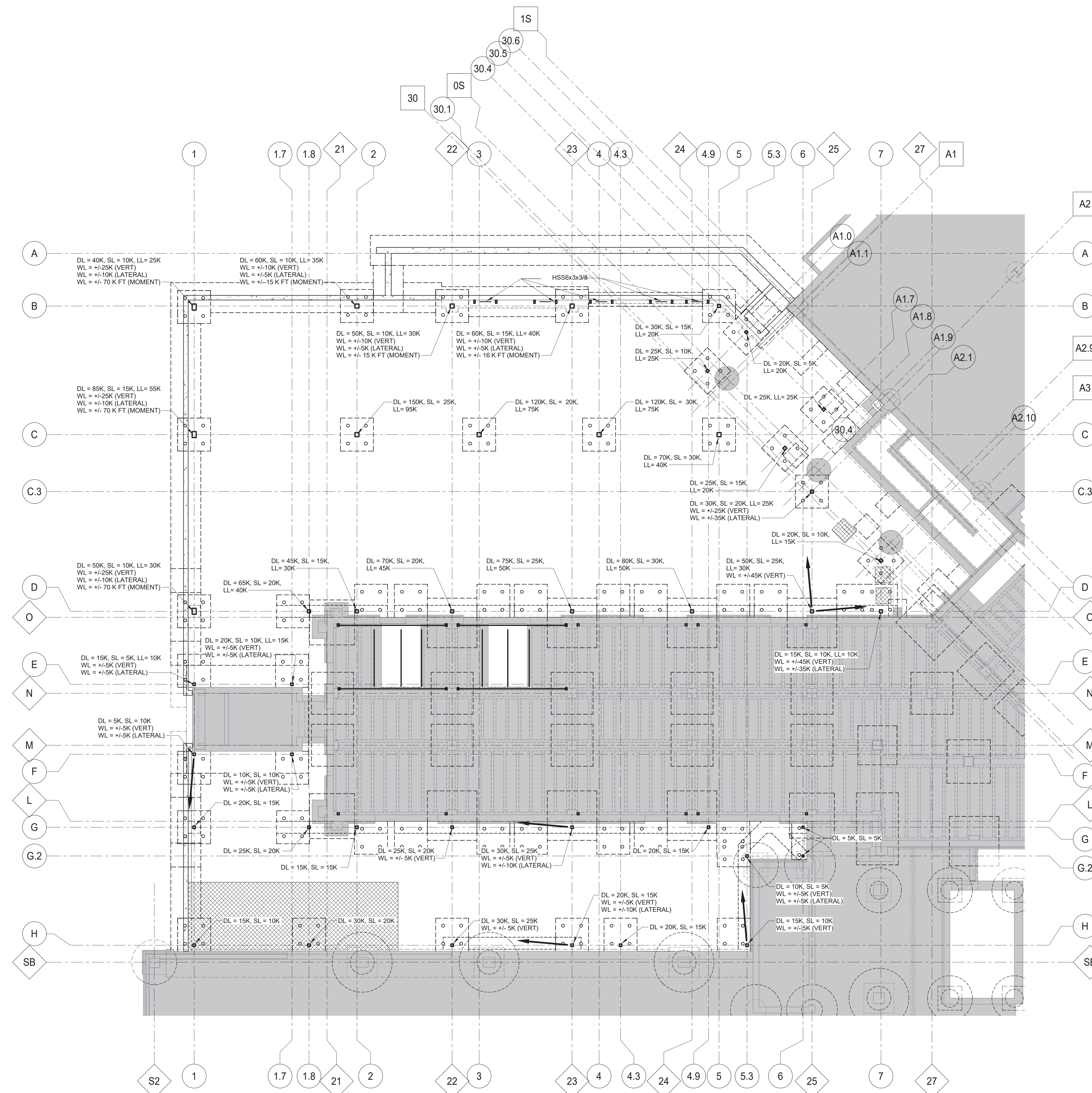
**SB101**

FULLY SPRINKLERED



GENERAL PLAN NOTES: PULLDOWN HELICAL PILE DESIGN

1. PILE LAYOUT IS APPROXIMATE ONLY. FINAL DESIGN AND LAYOUT BY PILE CONTRACTOR.
2. REACTION ARE UNFACTORED.



### GROUND LEVEL COLUMN LOADS

$$\frac{1}{8}'' = 1'-0''$$
[illegible]

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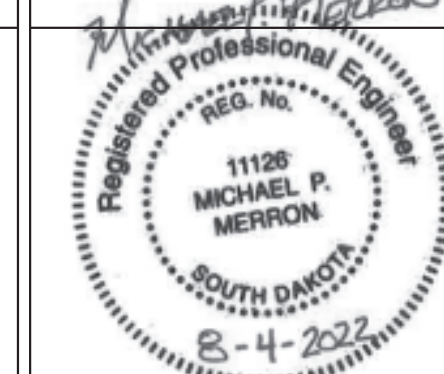
REFERENCE SCALE IN INCHES

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 # 19004249.04

STAMP



Office of  
Construction  
and Facilities  
Management



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

☒ Checked

	Drawn
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Project Number

438-460

Drawing Number

SB102



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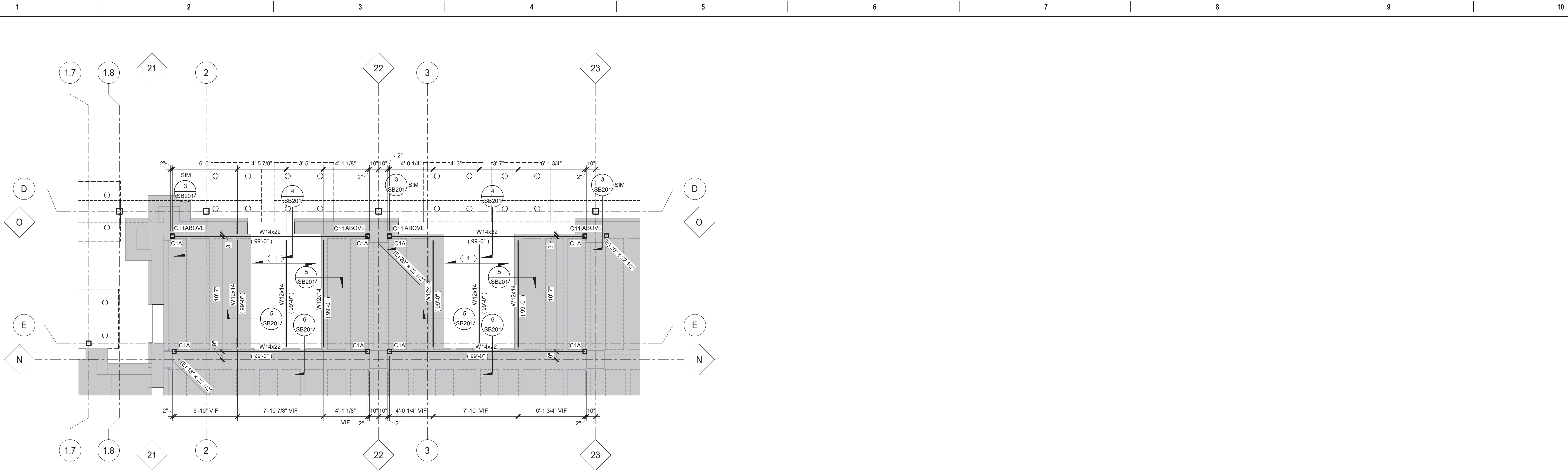
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# 1 LEVEL 01 CART WASH FLOOR FRAMING PLAN

- GENERAL PLAN NOTES: FLOOR**
1. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
  2. DO NOT SCALE DRAWINGS.
  3. FOR SCHEDULES SEE SHEET **SB101**.
  4. FOR PERMISSABLE CONSTRUCTION JOINT LOCATIONS IN COMPOSITE SLABS, SEE **2/SF210**.
  5. 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.
  6. VERIFY ALL OPENINGS IN SLAB WITH ARCHITECT & MECHANICAL.
  7. VERIFY EXISTING DIMENSIONS & ELEVATIONS.
  8. CONTRACTOR TO LOCATE REINFORCING IN EXISTING WALLS & SLABS AS REQUIRED.

- KEY PLAN NOTES: FLOOR FRAMING**
1. 4" TOTAL COMPOSITE CONCRETE FLOOR SLAB W/ #4 @ 12" OC EA WAY DOWELED TO EXISTING SLAB, OVER 1" OC-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.

Revisions:	Date:

<b>CONSULTANT</b>  12753 HIGHWAY 55, SUITE 100 MINNEAPOLIS, MN 55441 763.545.9186 FAX: 763.541.0886 www.imegcorp.com PROJECT # 19004249.04 <small>IMEG CORP. RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG CORP. AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG CORP. © 2022 IMEG CORP.</small>	<b>ARCHITECT/ENGINEER OF RECORD</b>  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 # 19004249.04	<b>STAMP</b> 	<b>Office of Construction and Facilities Management</b> U.S. Department of Veterans Affairs	<b>Drawing Title</b> ENLARGED PLANS	<b>Phase</b> BID DOCUMENTS	<b>Project Title</b> CONSTRUCT NEW SPS	<b>Project Number</b> 438-460
				<b>Approved:</b>	<b>FULLY SPRINKLERED</b>	<b>Location</b> Sioux Falls, SD.	<b>Building Number</b> 5
						<b>Issue Date</b> 08/04/2022	<b>Drawing Number</b> SB103
						<b>Checked</b> MPM/TGL	<b>Drawn</b> MAQ



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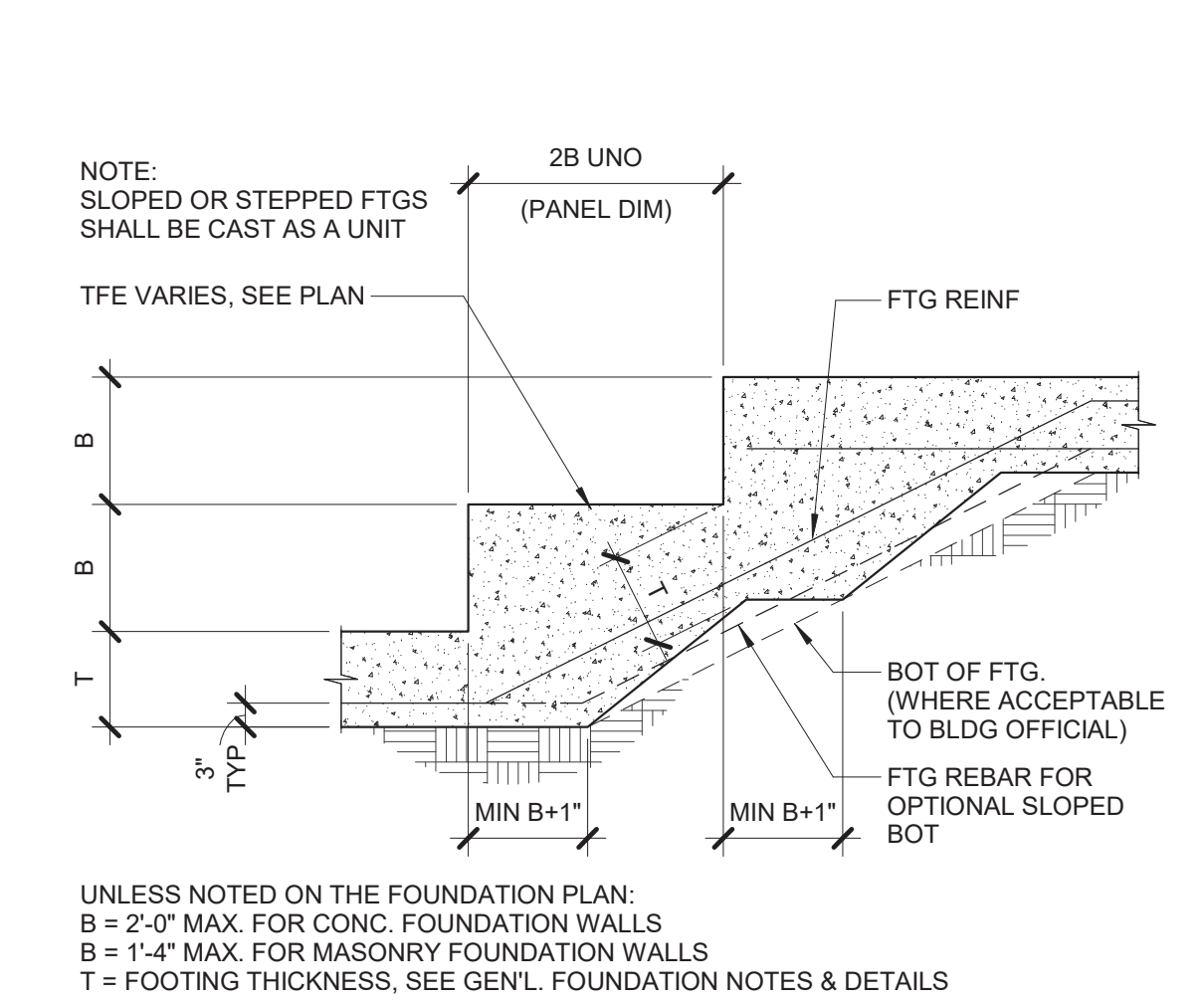
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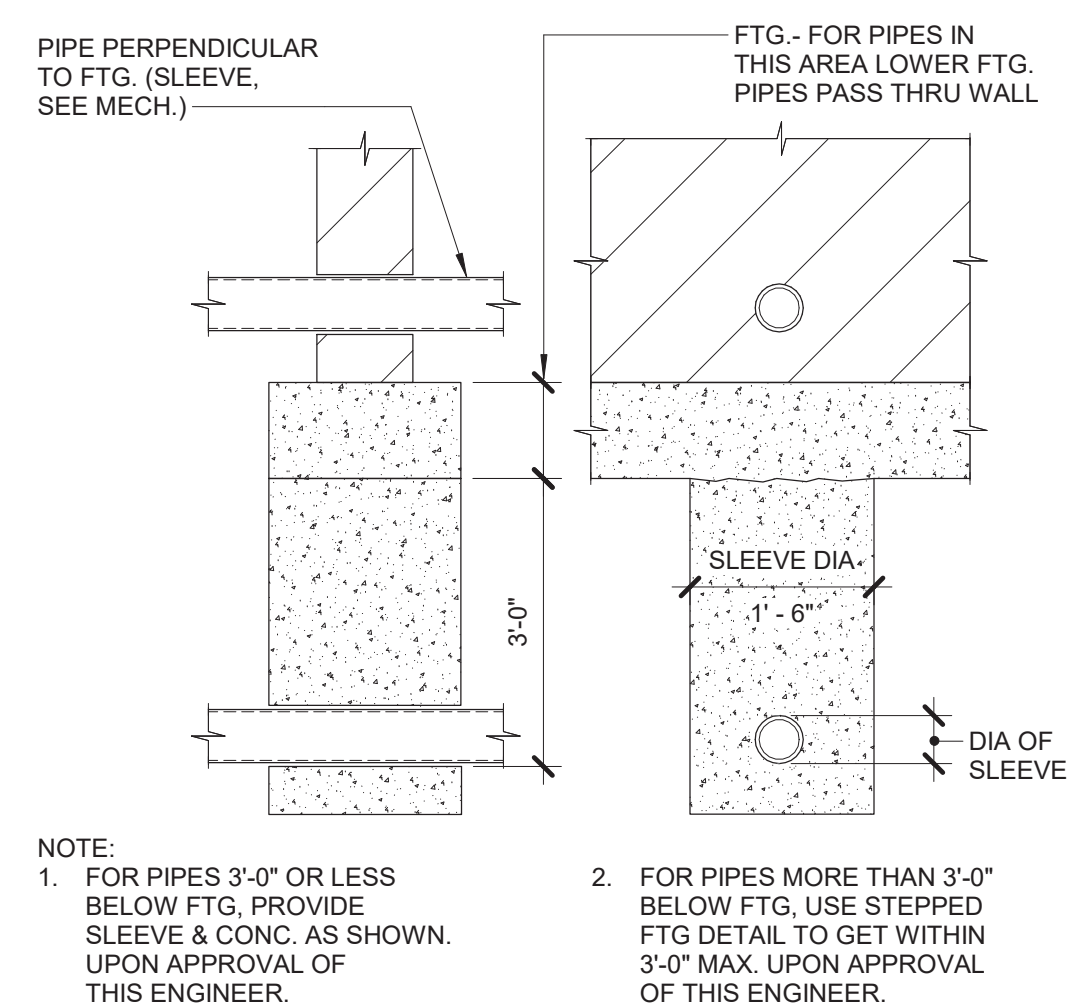
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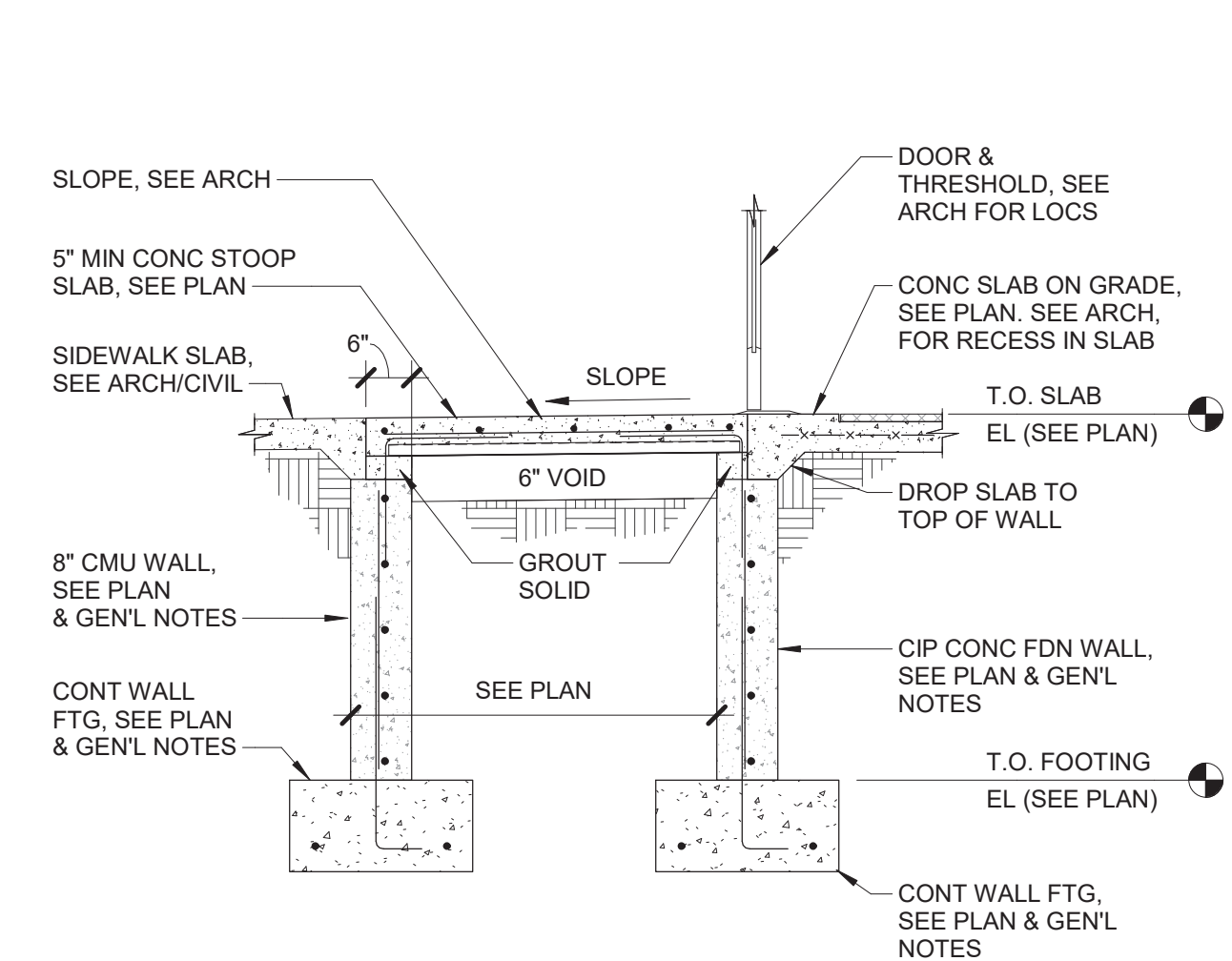
VA FORM 08 - 6231



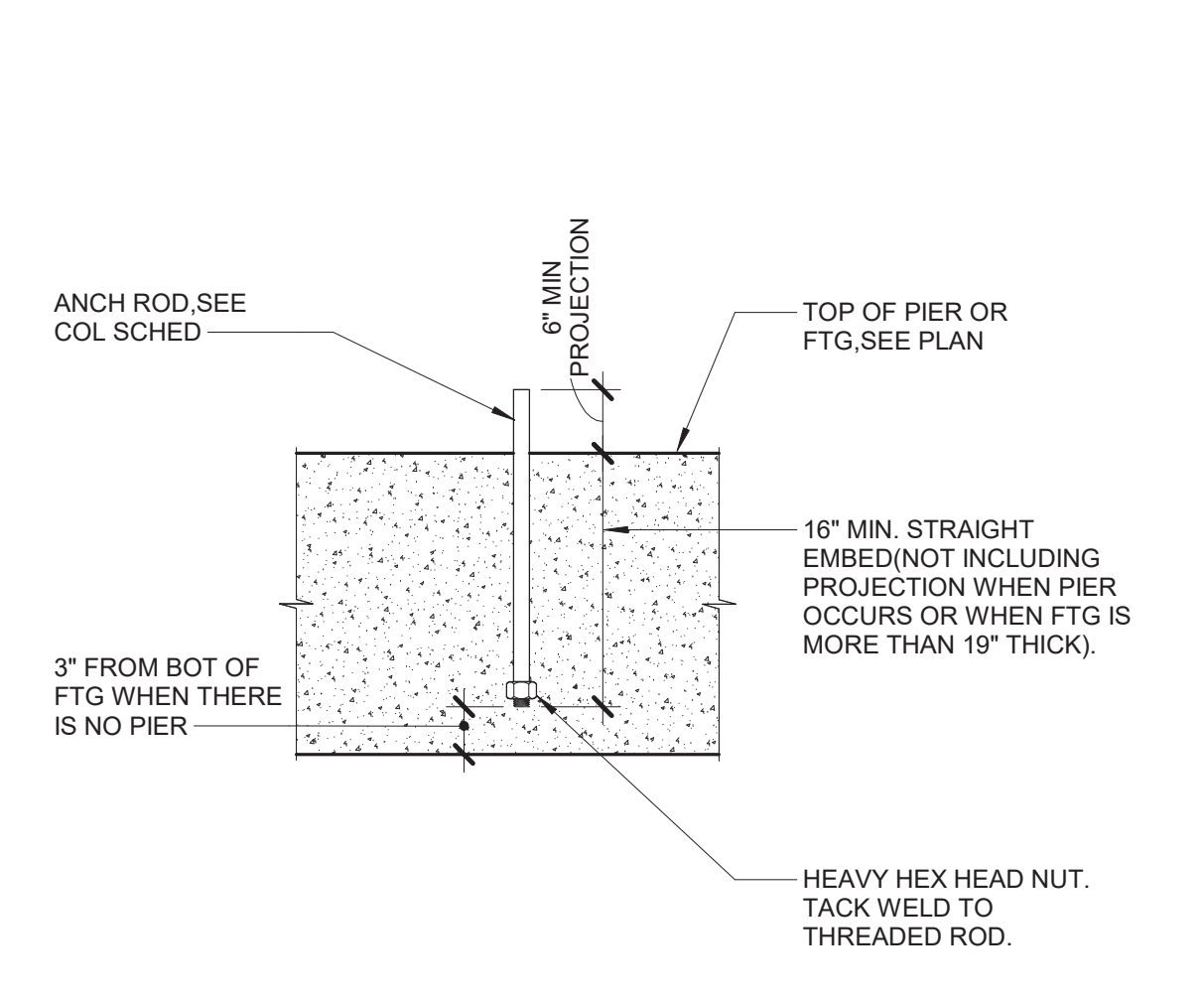
1 TYPICAL FOOTING STEP DETAIL  
1/2" = 1'-0"



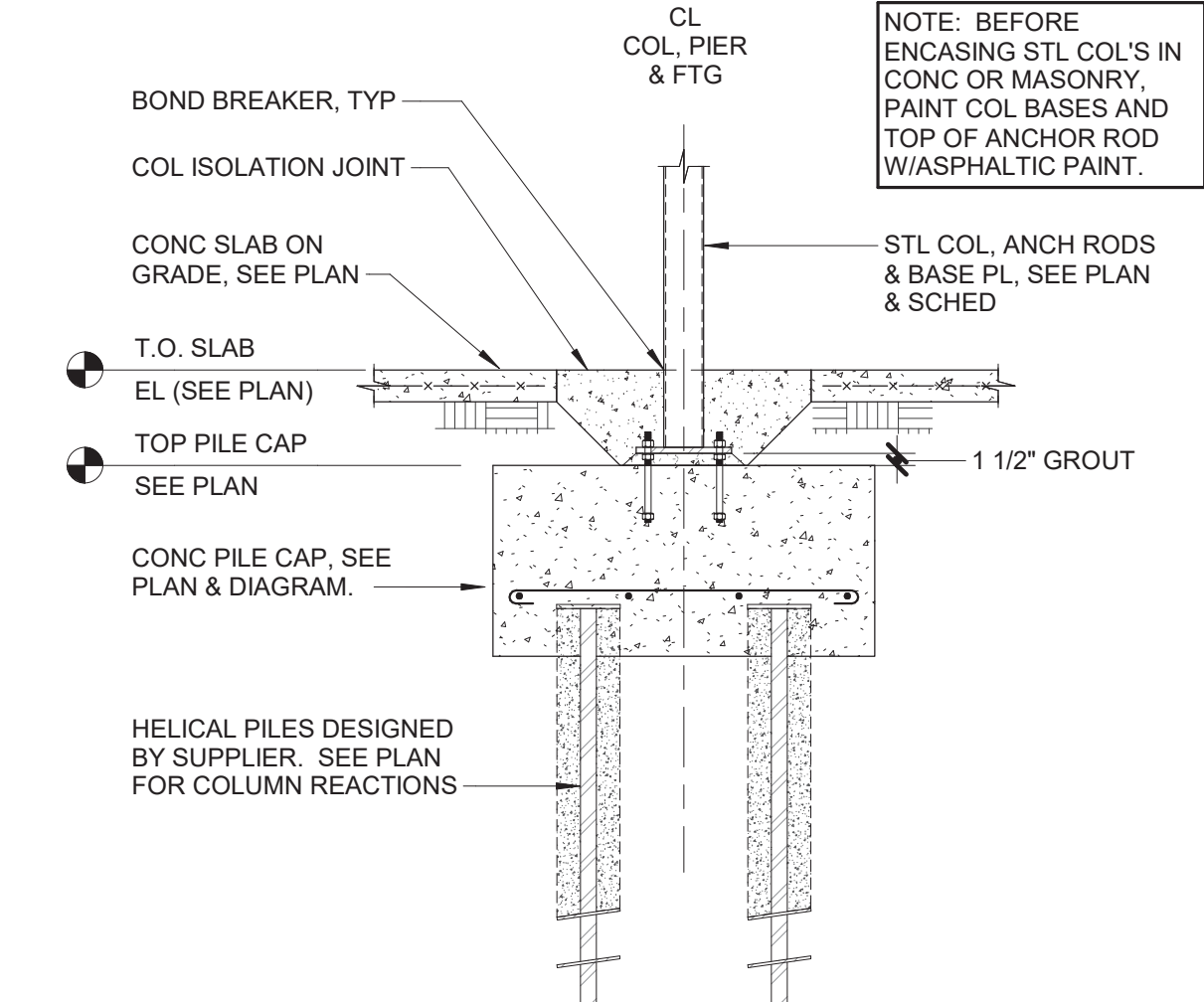
2 FOUNDATION PIPE SLEEVE DETAIL  
1/2" = 1'-0"



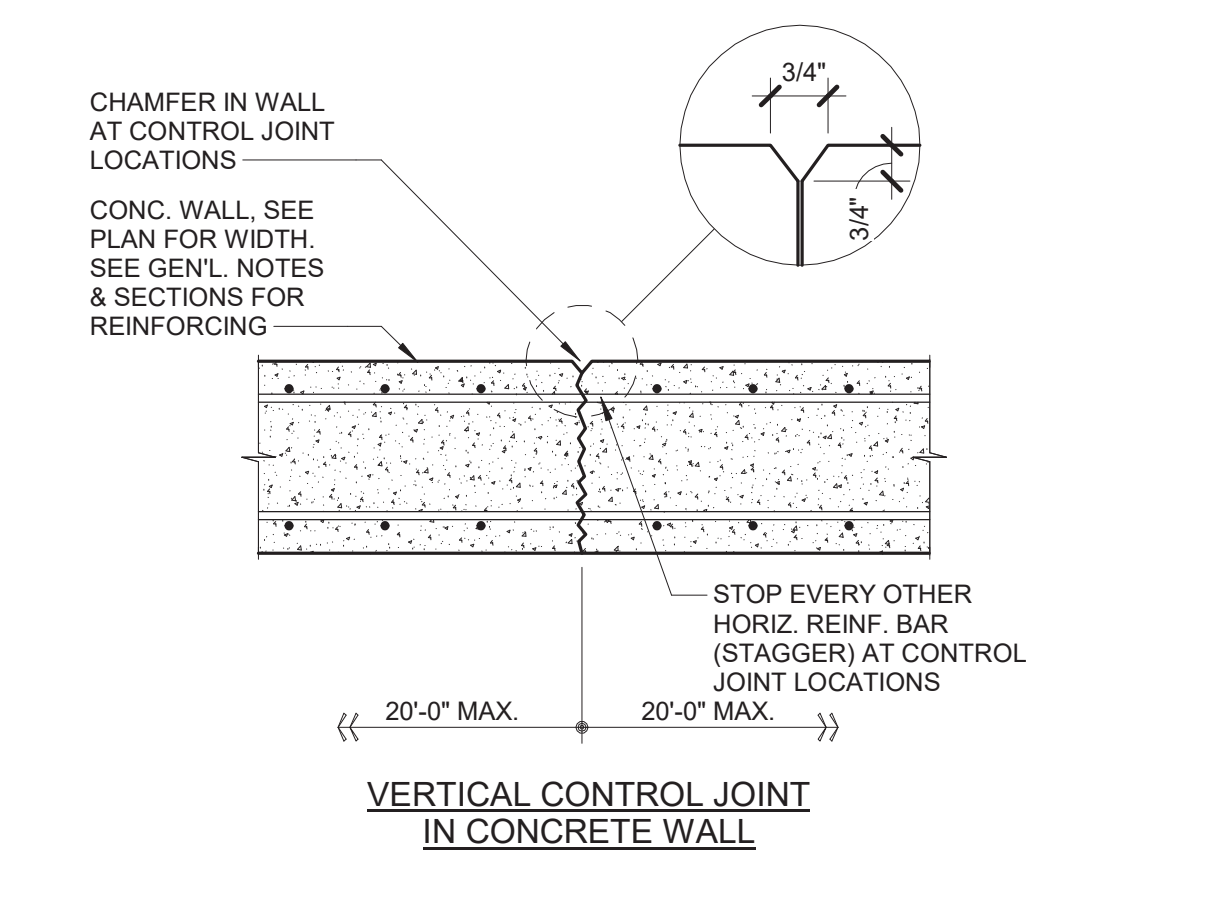
3 TYPICAL STOOP DETAIL  
1/2" = 1'-0"



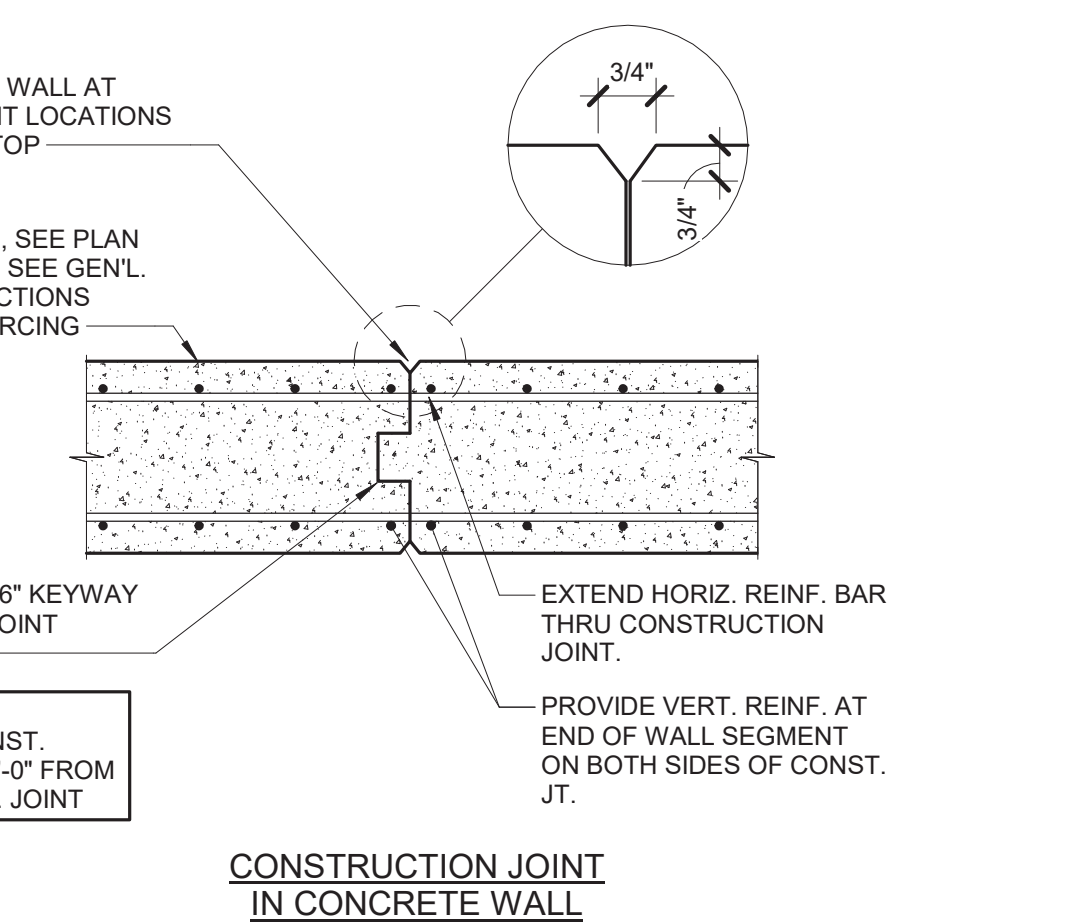
4 TYPICAL ANCHOR ROD DETAIL  
1/2" = 1'-0"



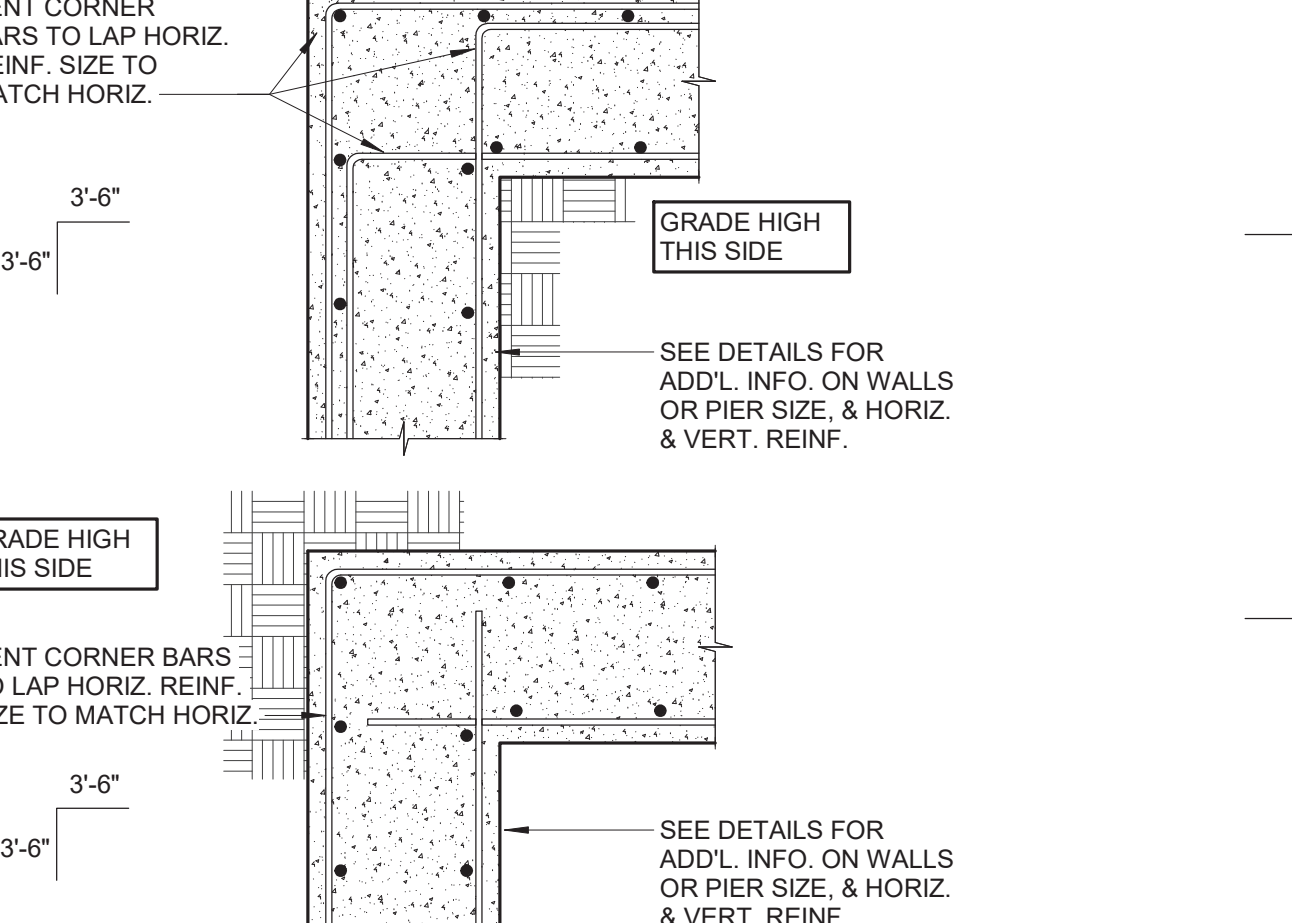
5 TYPICAL INTERIOR COLUMN & PIER  
1/2" = 1'-0"



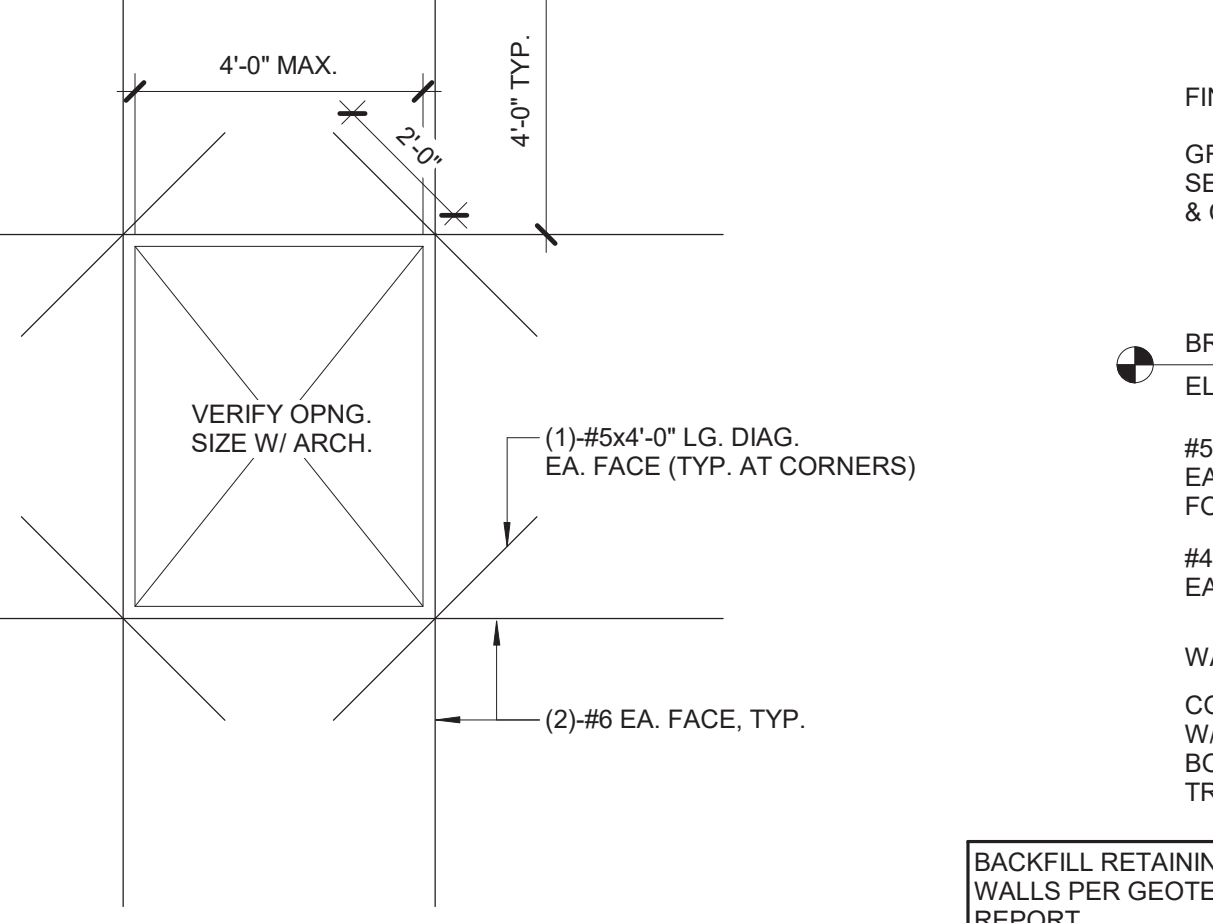
6 PLAN VIEW  
1/2" = 1'-0"



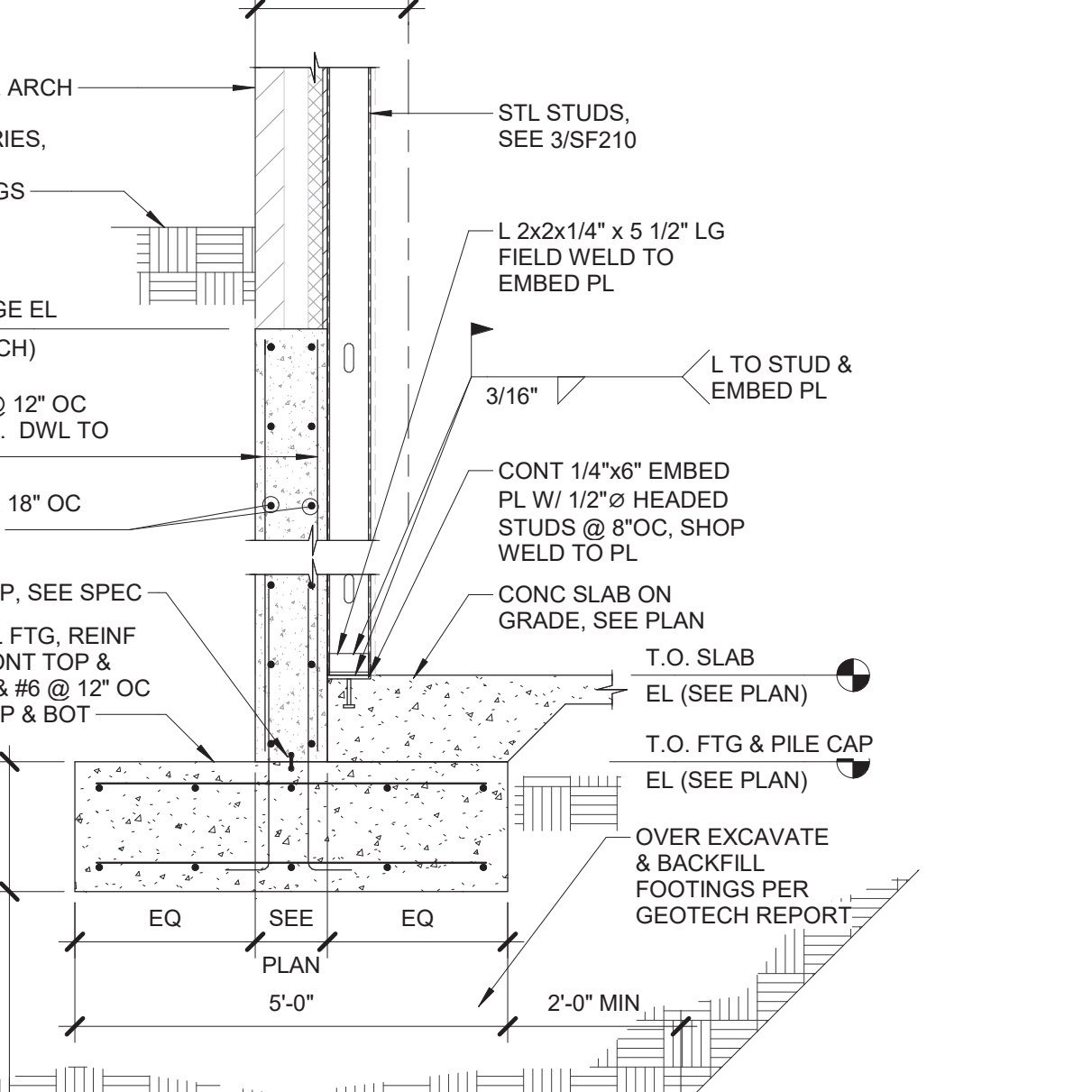
7 PLAN VIEW  
1/2" = 1'-0"



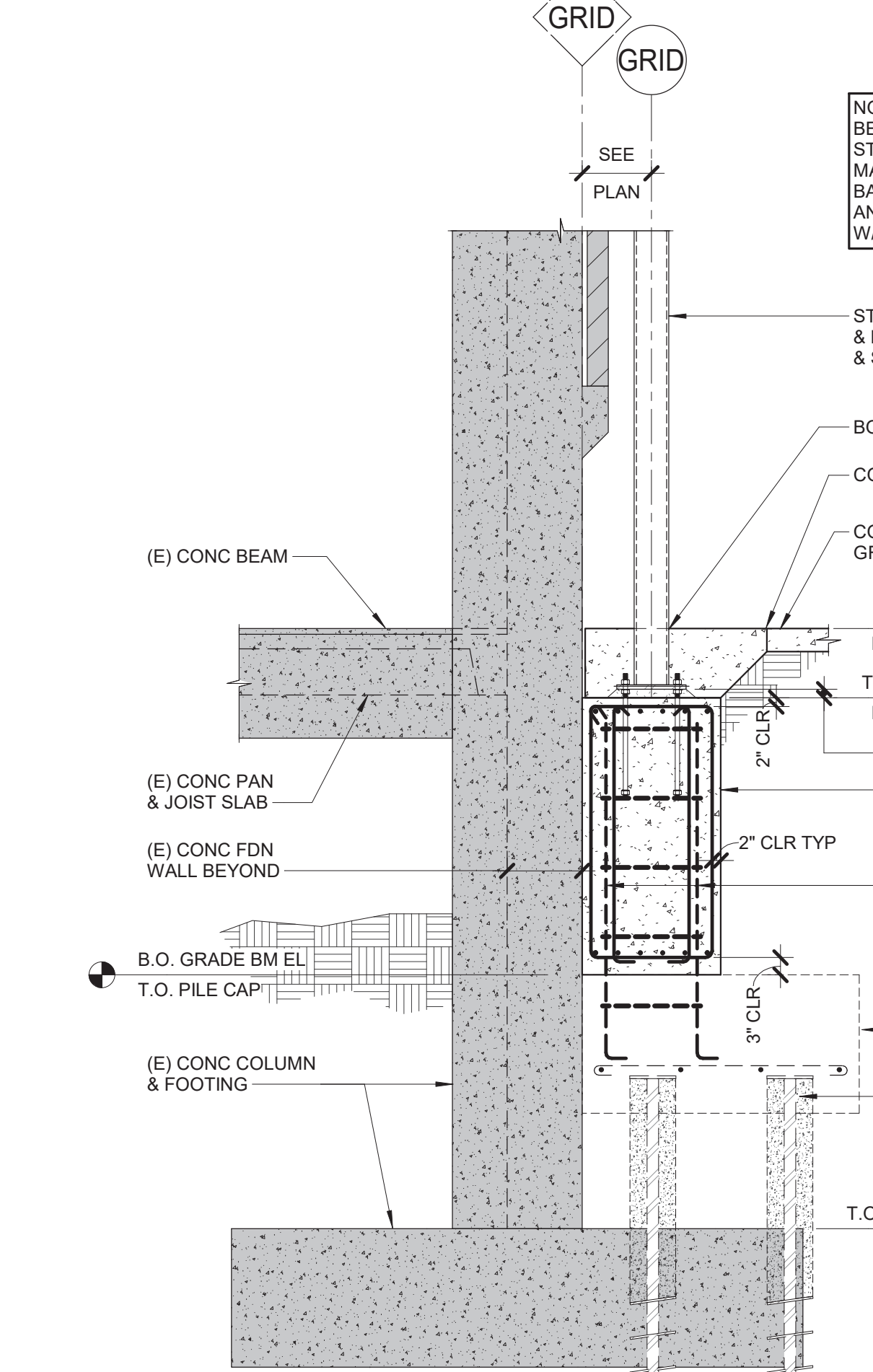
8 PLAN VIEW  
3/4" = 1'-0"



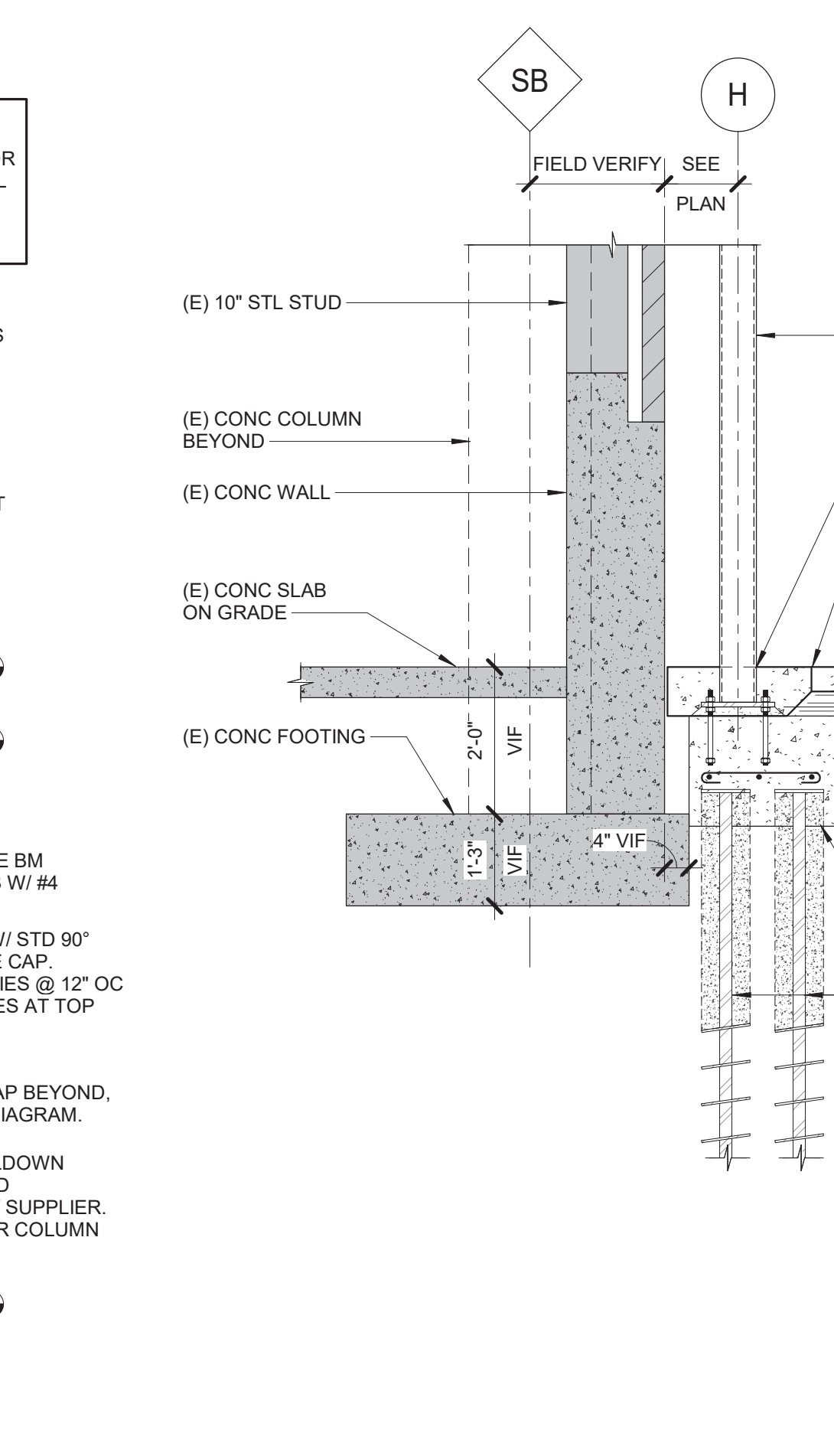
9 DETAIL  
NOT TO SCALE



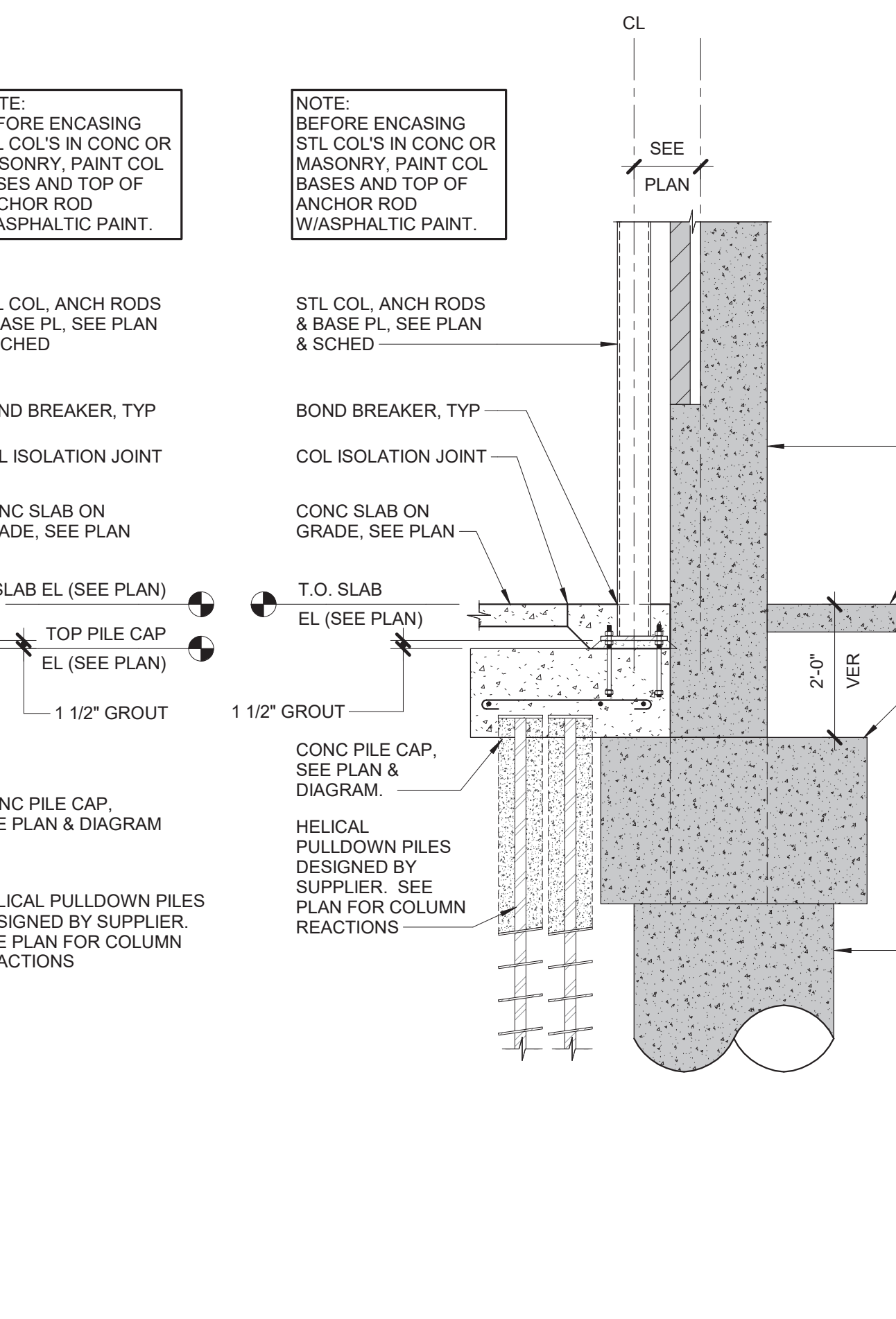
10 TYPICAL EXT FDN WALL  
1/2" = 1'-0"



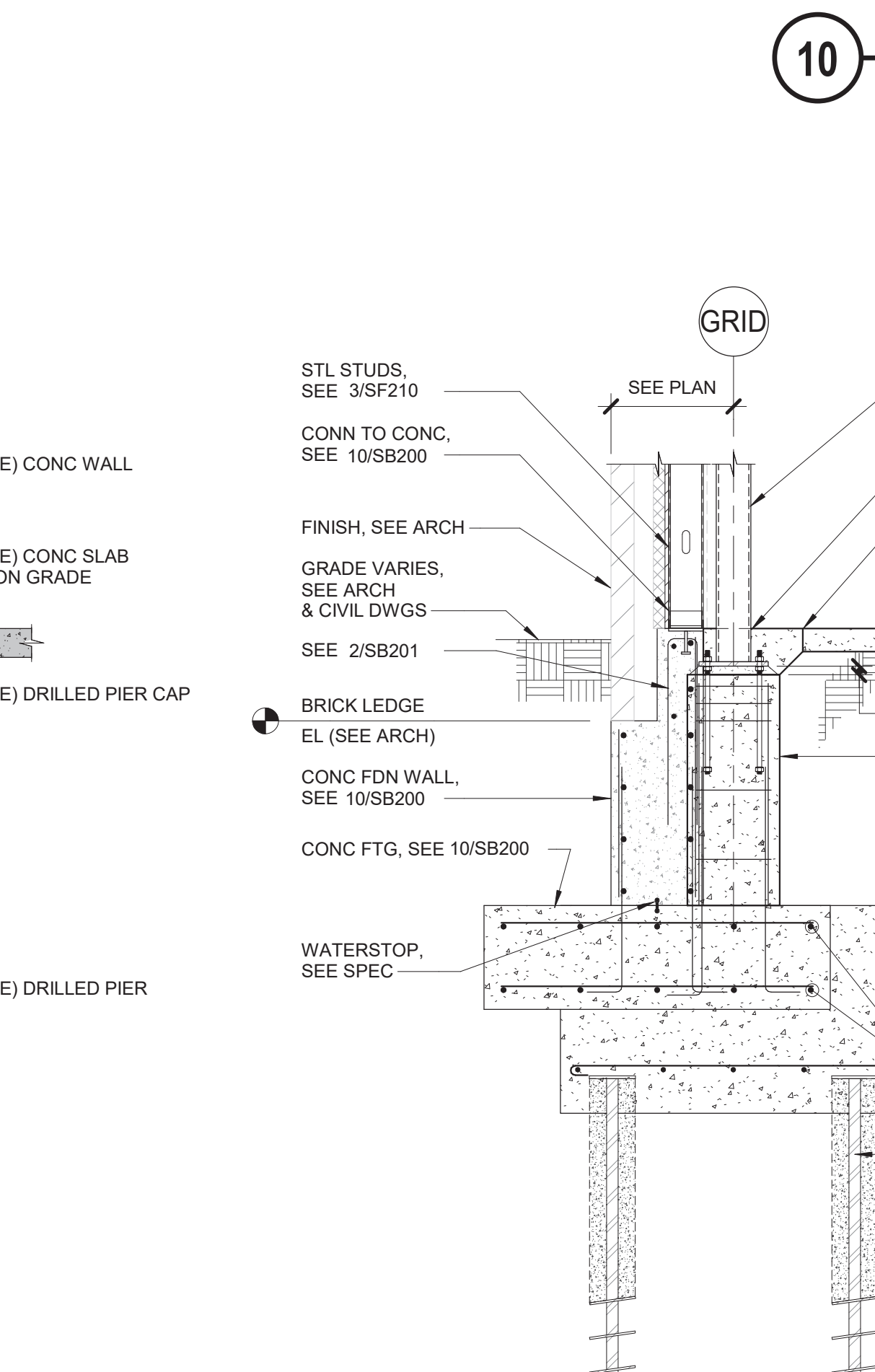
11 SECTION  
1/2" = 1'-0"



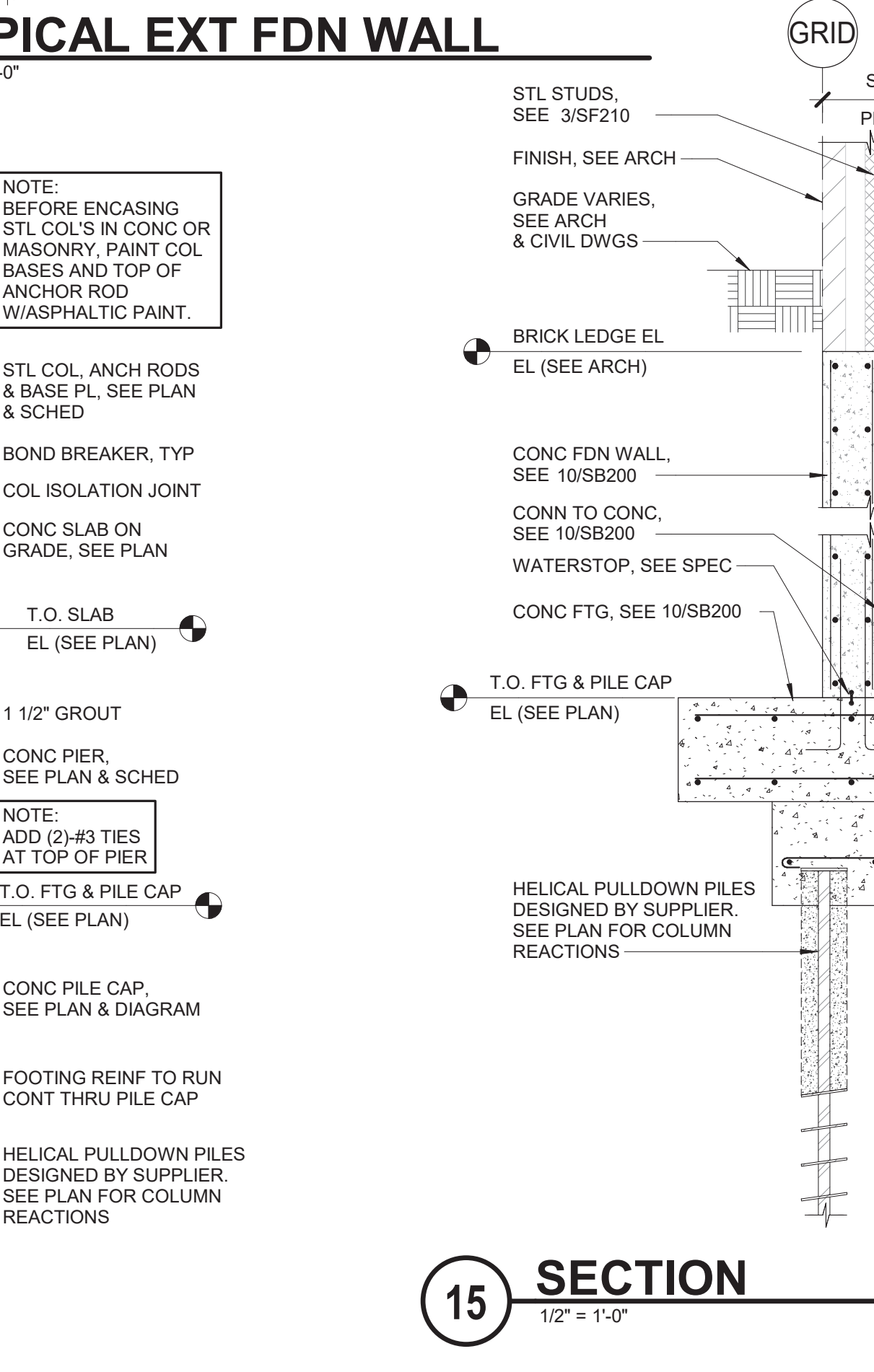
12 SECTION  
1/2" = 1'-0"



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



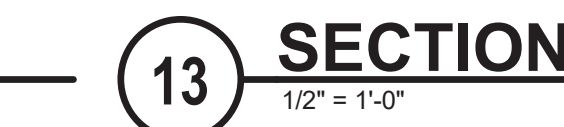
14 SECTION  
1/2" = 1'-0"



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

<b>CONSULTANT</b> <b>IMEG</b> 12755 HIGHWAY 55, SUITE 100 MINNEAPOLIS, MN 55441 763.545.9186 FAX: 763.541.0086 www.imegcorp.com PROJECT # 19004249.04		<b>ARCHITECT/ENGINEER OF RECORD</b> <b>ANDERSON</b> 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 # 19004249.04		<b>Office of Construction and Facilities Management</b> <b>VA</b> U.S. Department of Veterans Affairs		<b>Drawing Title</b> SECTIONS - FOUNDATION		<b>Phase</b> BID DOCUMENTS		<b>Project Title</b> CONSTRUCT NEW SPS		<b>Project Number</b> 438-460	
<b>Revisions:</b>		<b>Date:</b>		<b>Approved:</b>		<b>Approved:</b>		<b>FULLY SPRINKLERED</b>		<b>Location</b> Sioux Falls, SD.		<b>Drawing Number</b> SB200	
										<b>Issue Date</b> 08/04/2022		<b>Checked</b> MPM/TGL	
										<b>Drawn</b> MAQ			



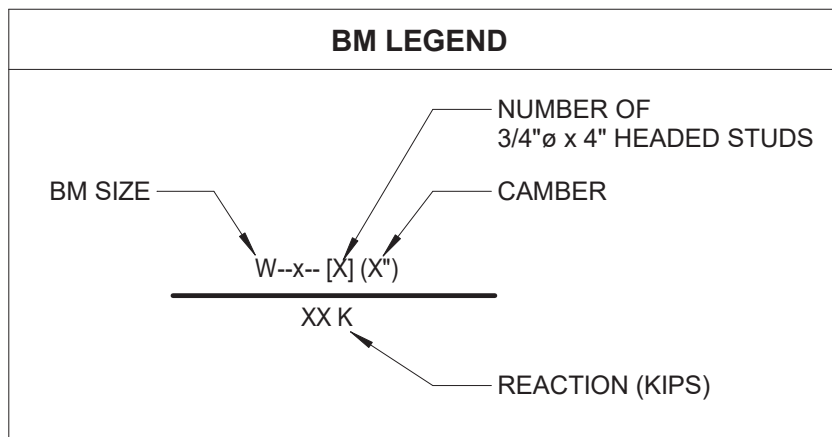


Project Number	438-460
Building Number	5
Drawing Number	SB201

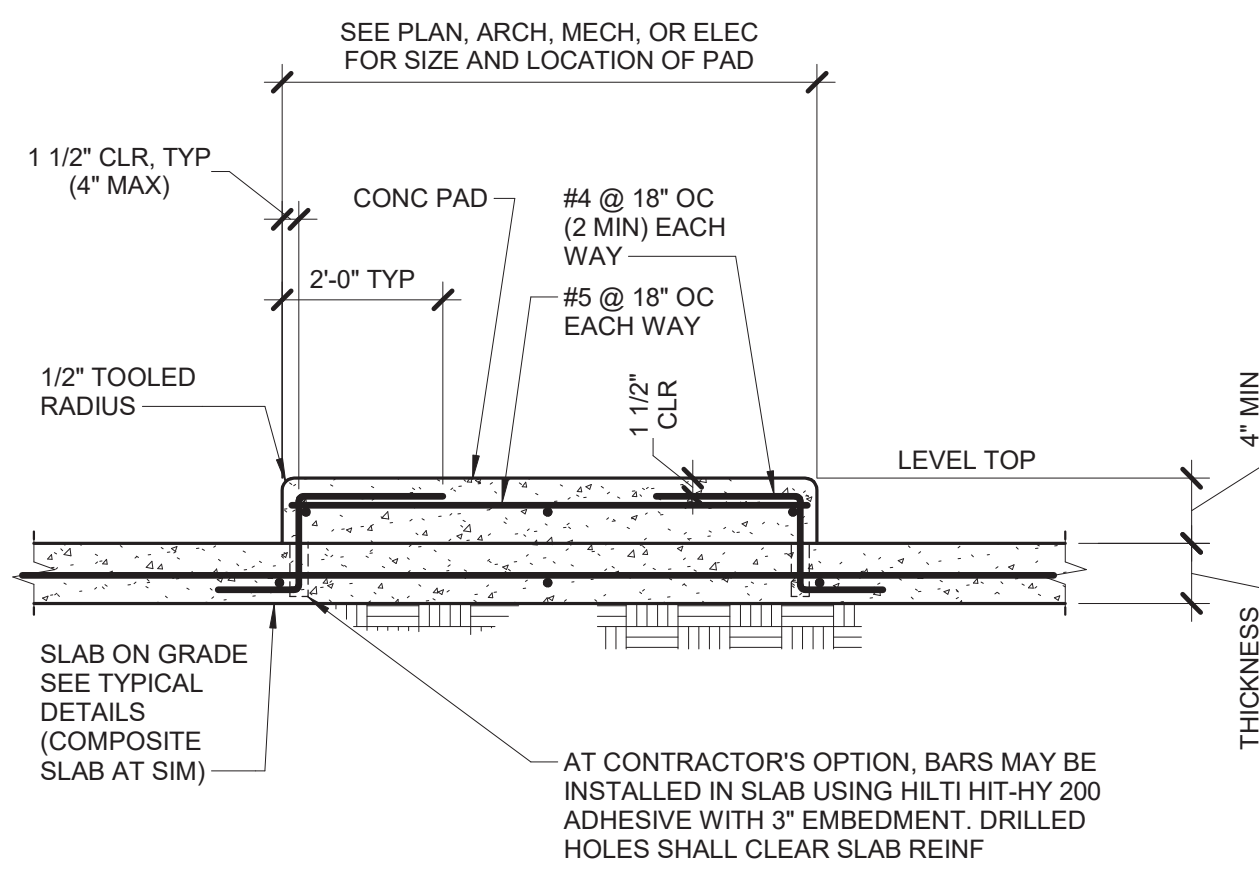


- GENERAL PLAN NOTES: FLOOR**
1. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
  2. DO NOT SCALE DRAWINGS.
  3. FOR SCHEDULES SEE SHEET SB101.
  4. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF WALLS NOT DIMENSIONED ON PLAN.
  5. FOR PERMISSIBLE CONSTRUCTION JOINT LOCATIONS IN COMPOSITE SLABS, SEE 2/SF210.
  6. FOR OPENINGS IN COMPOSITE SLABS, SEE 1/SF210. FOR OPENINGS LARGER THAN 24", PROVIDE W10X12 FRAME AROUND OPNG. 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 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 HSS8x5x5/16" SHOP WELDED TO FACE OF STL COL W/ 1/4" FILLET WELD ALL AROUND.
  7. PROVIDE 5/16" BENT PLATE.



- GENERAL PLAN NOTES: ROOF FRAMING**
- = INDICATES EXPANSION JOINT. SEE ARCHITECTURAL DRAWINGS.
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 OPNG. 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 AND 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.

**TYPICAL CONCRETE EQUIPMENT PAD DETAIL**

2 3/4" = 1'-0"

**FIRST LEVEL & ROOF FRAMING PLAN**

1/8" = 1'-0"

<b>CONSULTANT</b>  12755 HIGHWAY 55, SUITE 100 MINNEAPOLIS, MN 55411 763.545.9186 FAX: 763.541.0086 www.imegcorp.com PROJECT # 19004249.04		<b>ARCHITECT/ENGINEER OF RECORD</b>  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 # 19004249.04		<b>Office of Construction and Facilities Management</b>  U.S. Department of Veterans Affairs	<b>Drawing Title</b> FIRST FLOOR & ROOF FRAMING PLAN <b>Approved:</b>	<b>Phase</b> BID DOCUMENTS	<b>Project Title</b> CONSTRUCT NEW SPS	<b>Project Number</b> 438-460 <b>Building Number</b> 5
<b>Revisions:</b> Date:		<b>Location</b> Sioux Falls, SD.		<b>Issue Date</b> 08/04/2022	<b>Checked</b> MPM/TGL	<b>Drawn</b> MAQ	<b>Drawing Number</b> SF102	



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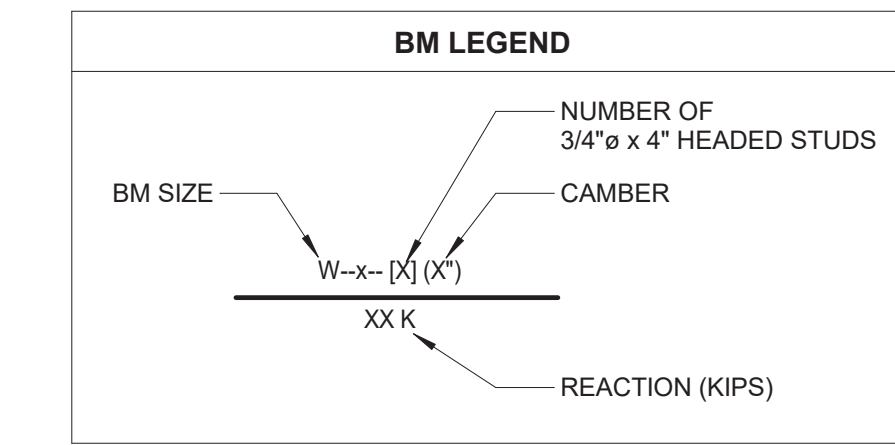
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- GENERAL PLAN NOTES: ROOF FRAMING**
- = INDICATES EXPANSION JOINT. SEE ARCHITECTURAL DRAWINGS.
  - 1. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
  - 2. DO NOT SCALE DRAWINGS.
  - 3. FOR SCHEDULES SEE SHEET SB101.
  - 4. SEE ARCHITECTURAL DRAWINGS. 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 OPG. VERIFY SIZE, LOCATION AND QTY WITH ARCH & MECH.
  - 7. PROVIDE FOUR STOPS AT TOPPING SLABS AS REQUIRED.
  - 8. DESIGN ROOF BEAM CONNECTIONS FOR BLAST REACTIONS GIVEN ON SHEET 50000.
  - 9. FOR STEEL BEAM TO STEEL COLUMN CONNECTION, SEE SECTION 3/SF220, 4/SF220, & 5/SF220.
  - 10. VERIFY EXISTING DIMENSIONS AND ELEVATIONS.
  - 11. CONTRACTOR TO LOCATE REINFORCING IN EXISTING WALLS & SLABS AS REQUIRED.



- KEY PLAN NOTES: ROOF**
- 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 = 123'-10"
  - 2. PROVIDE ADDITIONAL SLAB REINFORCING AROUND PERIMETER. SEE PLAN & 3/SF210
  - 3. PROVIDE STUB BEAM HSS 9X5X5/16" SHOP WELDED TO FACE OF STL COL W/ 1/4" FILLET WELD ALL AROUND
  - 4. L 3X3X5/16" KICKER AT BEAM MIDSPAN.
  - 5. L 5X5X3/8" FIELD WELDED TO STEEL BEAMS.
  - 6. L 3X3X5/16" KICKER CENTERED BETWEEN STEEL BEAMS.

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VA FORM 08 - 6231

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

Revisions:	Date:

<div>CONSULTANT</div> <div><div><div><div><div><div></div><div>IMEG</div></div></div><div><div><div><div><div></div><div>12755 HIGHWAY 55, SUITE 100</div><div>MINNEAPOLIS, MN 55441</div><div>763.545.9186 FAX: 763.541.0886</div><div>www.imegcorp.com</div></div><div>PROJECT # 19004249.04</div></div></div><div><div>IMEG CORP. RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. NO DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG CORP. AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG CORP.</div><div>© 2022 IMEG CORP.</div></div></div><div><div>REFERENCE SCALE IN INCHES</div><div><div><div></div><div>0</div><div>1</div><div>2</div><div>3</div></div></div></div></div></div></div>		<div>ARCHITECT/ENGINEER OF RECORD</div> <div><div><div>ANDERSON</div><div>13605 1st Ave. N. #100 Plymouth, MN 55441</div><div>P 763.412.4000   F 763.412.4090   ae-mn.com</div><div>Anderson Engineering of Minnesota, LLC   Proj # 19004249.04</div></div></div>		<div><div>STAMP</div><div><div><div><div><div></div><div>Professional Engineer</div><div>MEG No. 11128</div><div>MICHAEL P. MERRON</div><div>SOUTH DAKOTA</div><div>8-4-2022</div></div></div></div></div></div>	<div><div>Office of Construction and Facilities Management</div><div><div>VA</div><div>U.S. Department of Veterans Affairs</div></div></div>	<div><div>Drawing Title</div><div>ROOF FRAMING PLAN</div><div><div>Approved:</div></div></div>	<div><div>Phase</div><div>BID DOCUMENTS</div><div>FULLY SPRINKLERED</div></div>	<div><div>Project Title</div><div>CONSTRUCT NEW SPS</div><div><div>Location</div><div>Sioux Falls, SD.</div><div><div>Issue Date</div><div>08/04/2022</div><div><div>Checked</div><div>MPM/TGL</div><div><div>Drawn</div><div>MAQ</div></div></div></div></div></div>	<div><div>Project Number</div><div>438-460</div><div><div>Building Number</div><div>5</div><div><div>Drawing Number</div><div>SF103</div></div></div></div>
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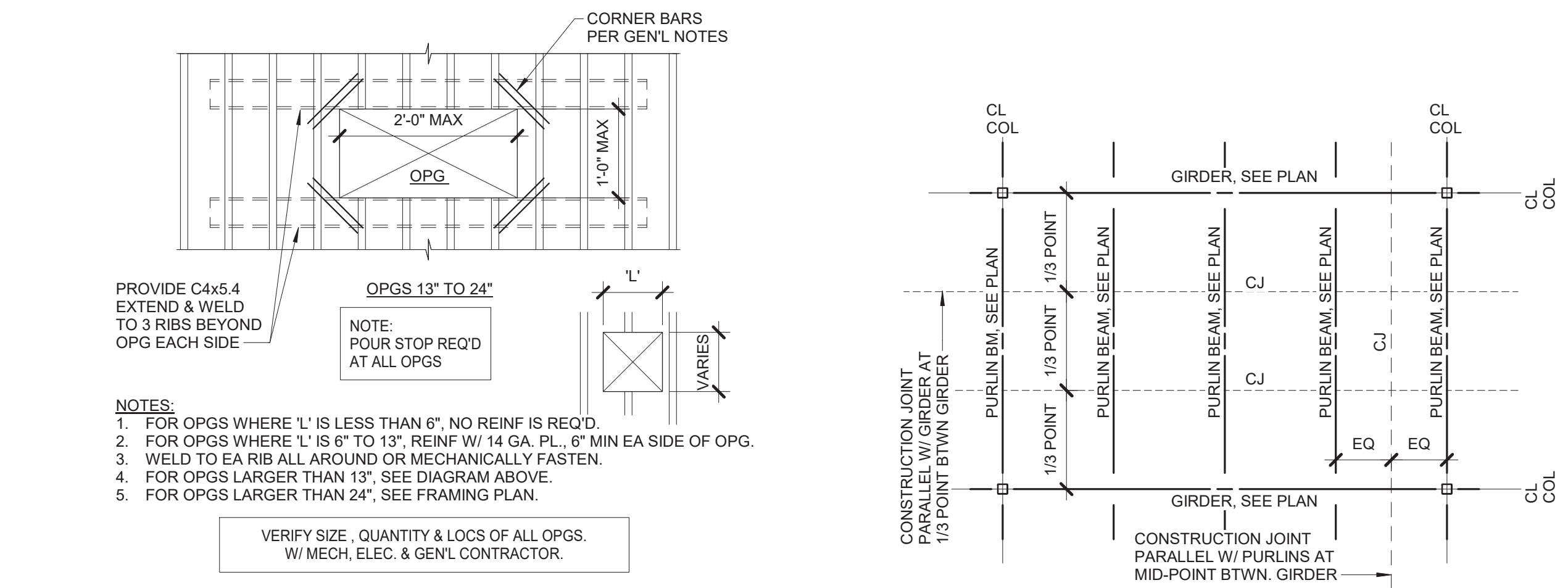
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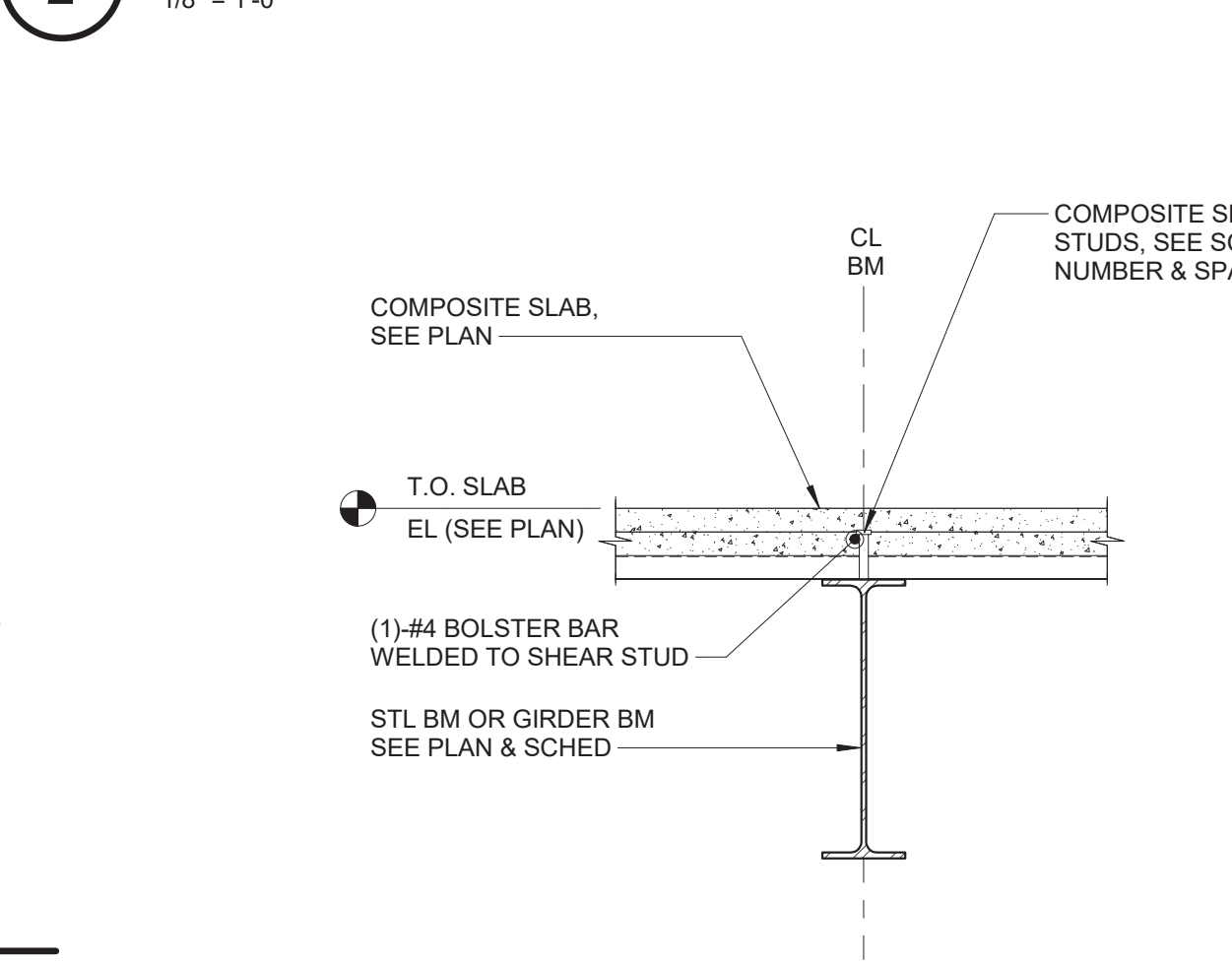
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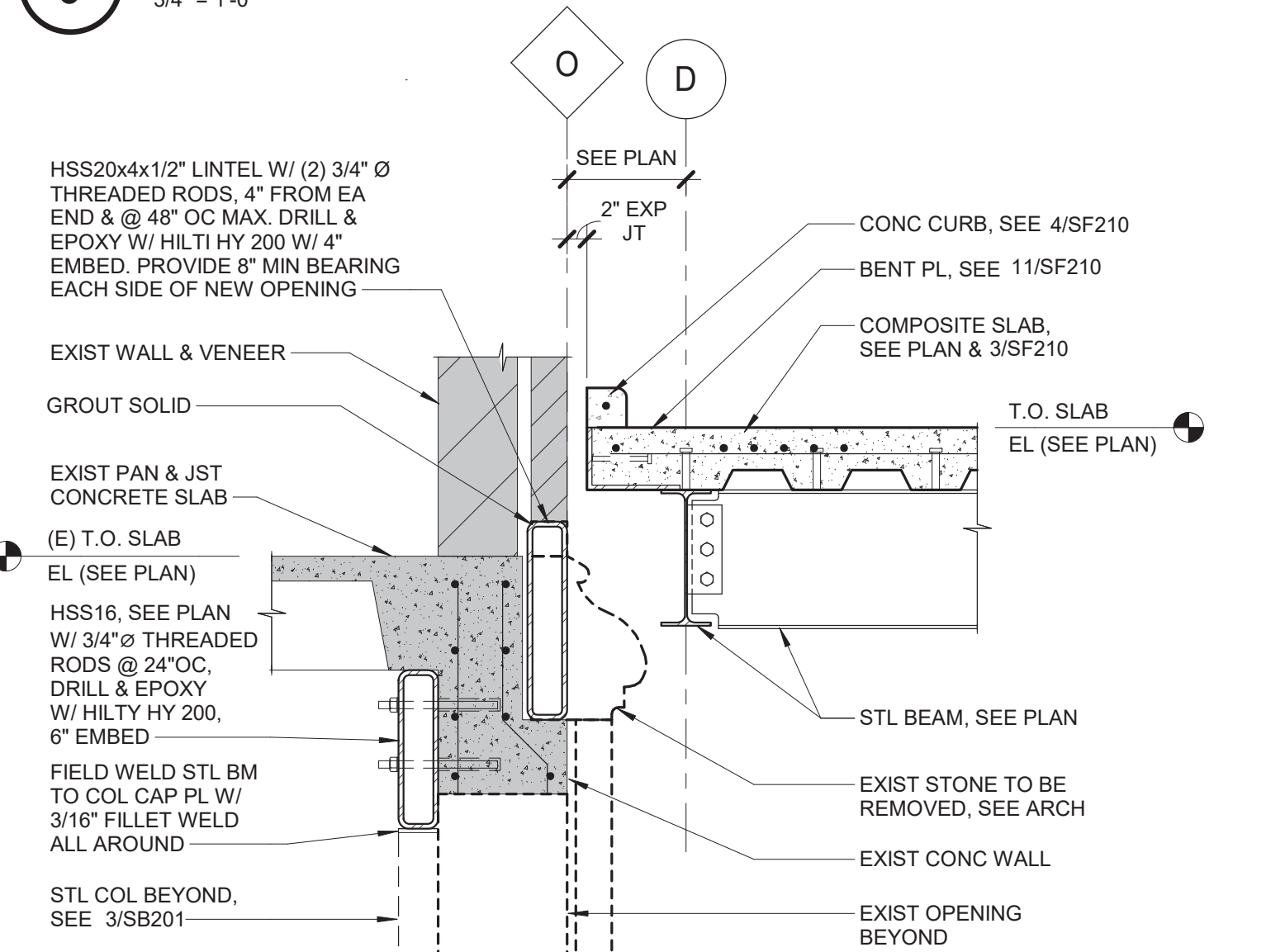
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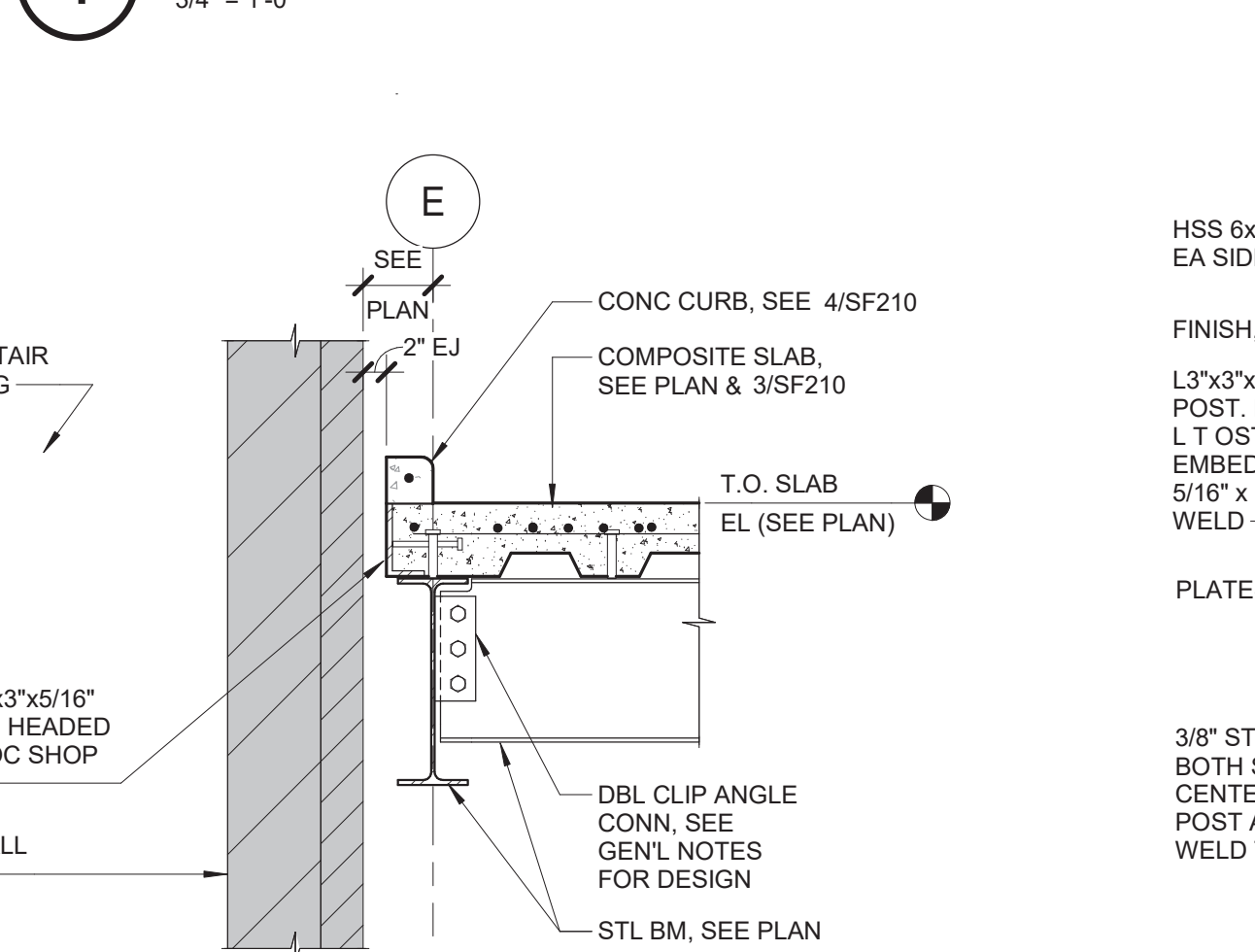
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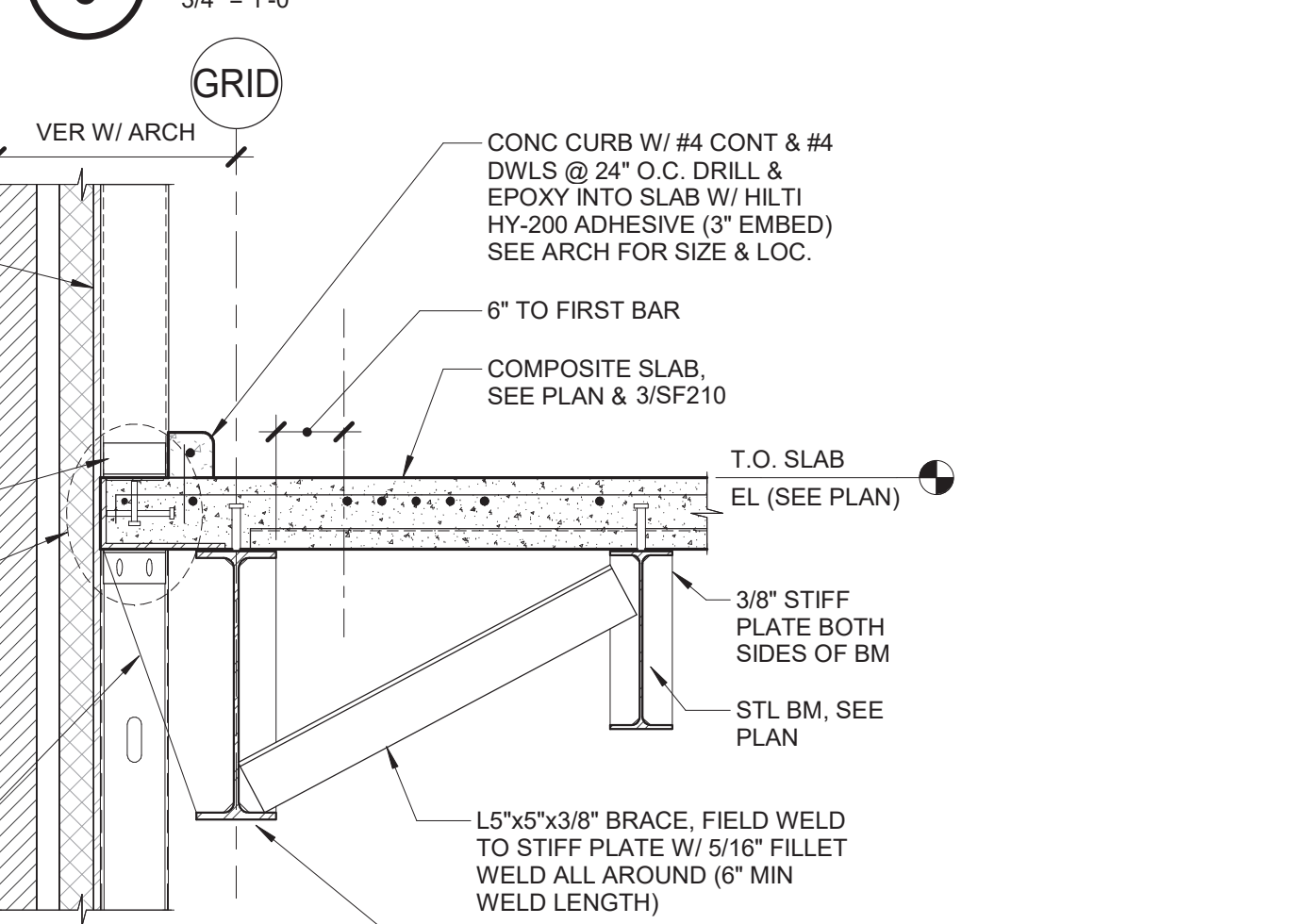
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3/4" = 1'-0"



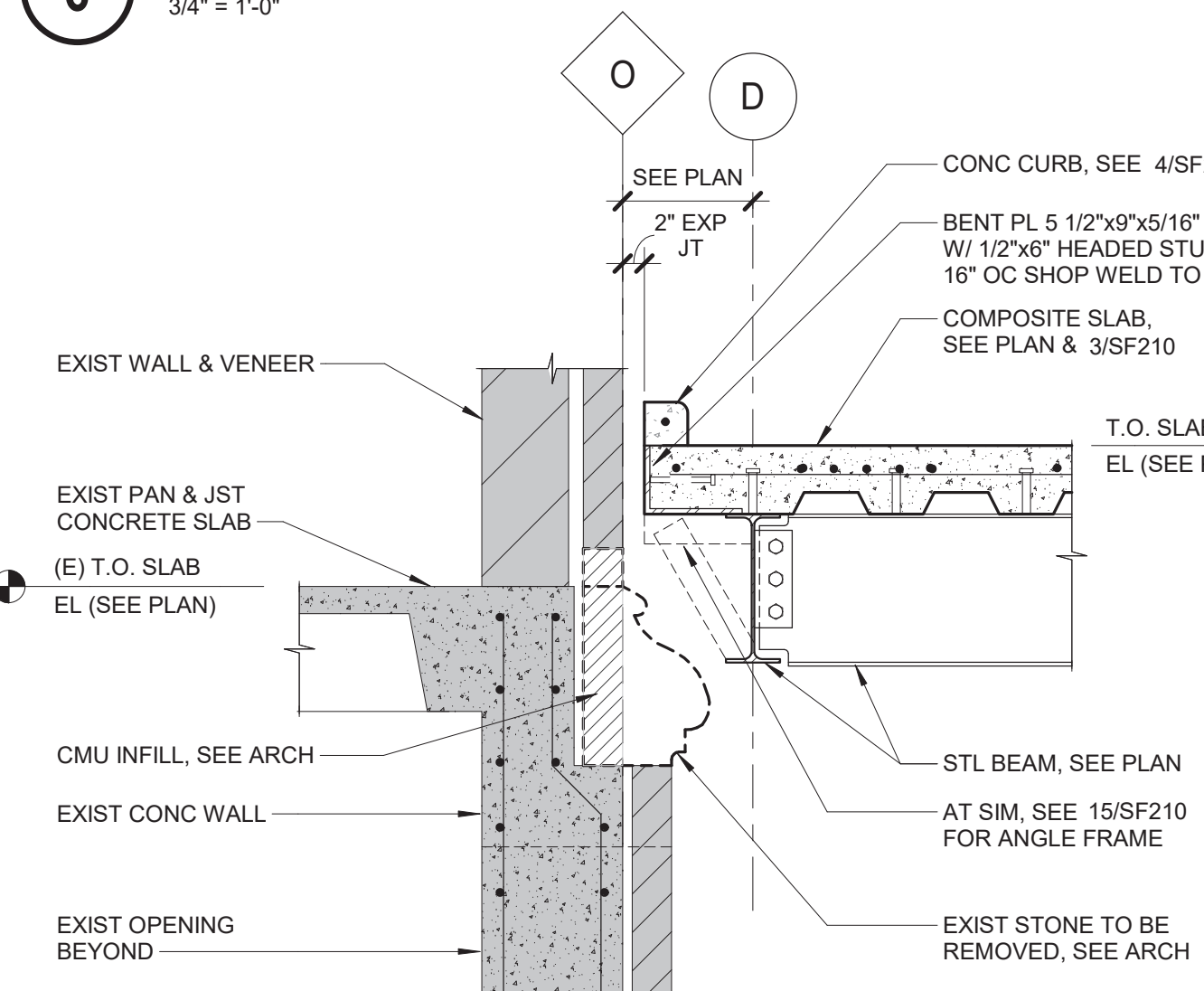
**4 TYPICAL SECTION AT EXTERIOR**  
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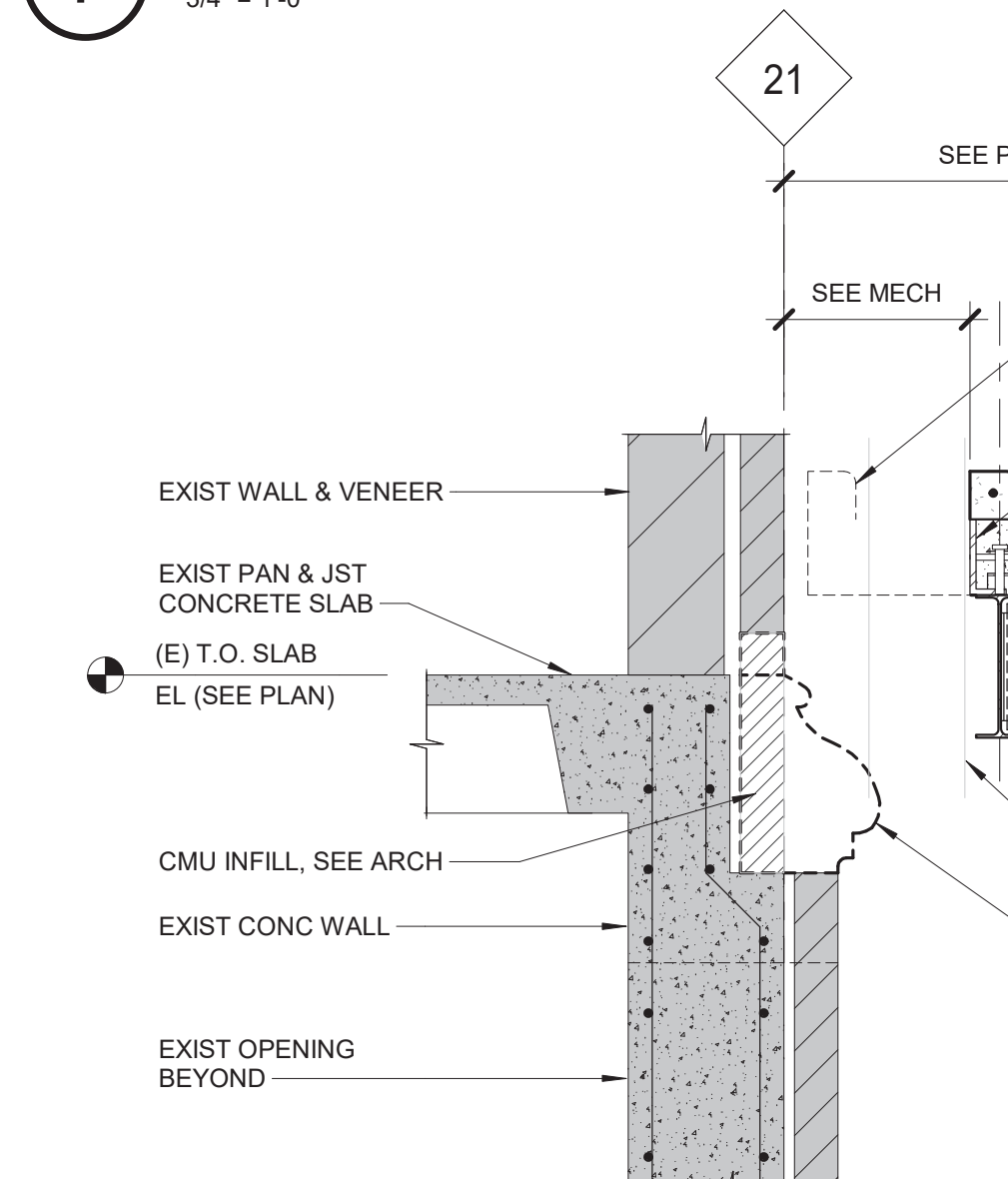
**5 TYPICAL SECTION AT COLUMNS**  
3/4" = 1'-0"



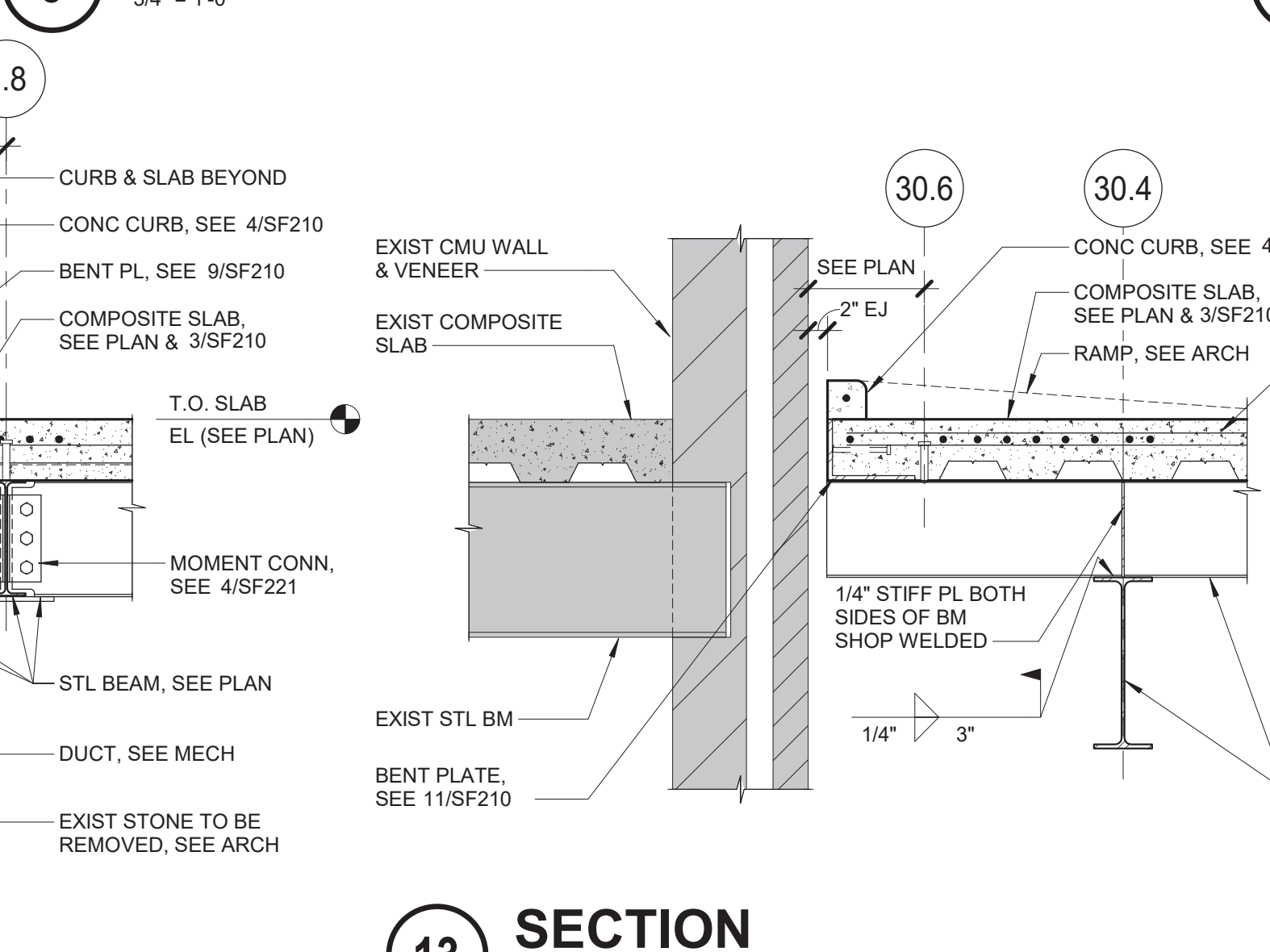
**6 SECTION AT GIRDER & COMPOSITE SLAB**  
3/4" = 1'-0"



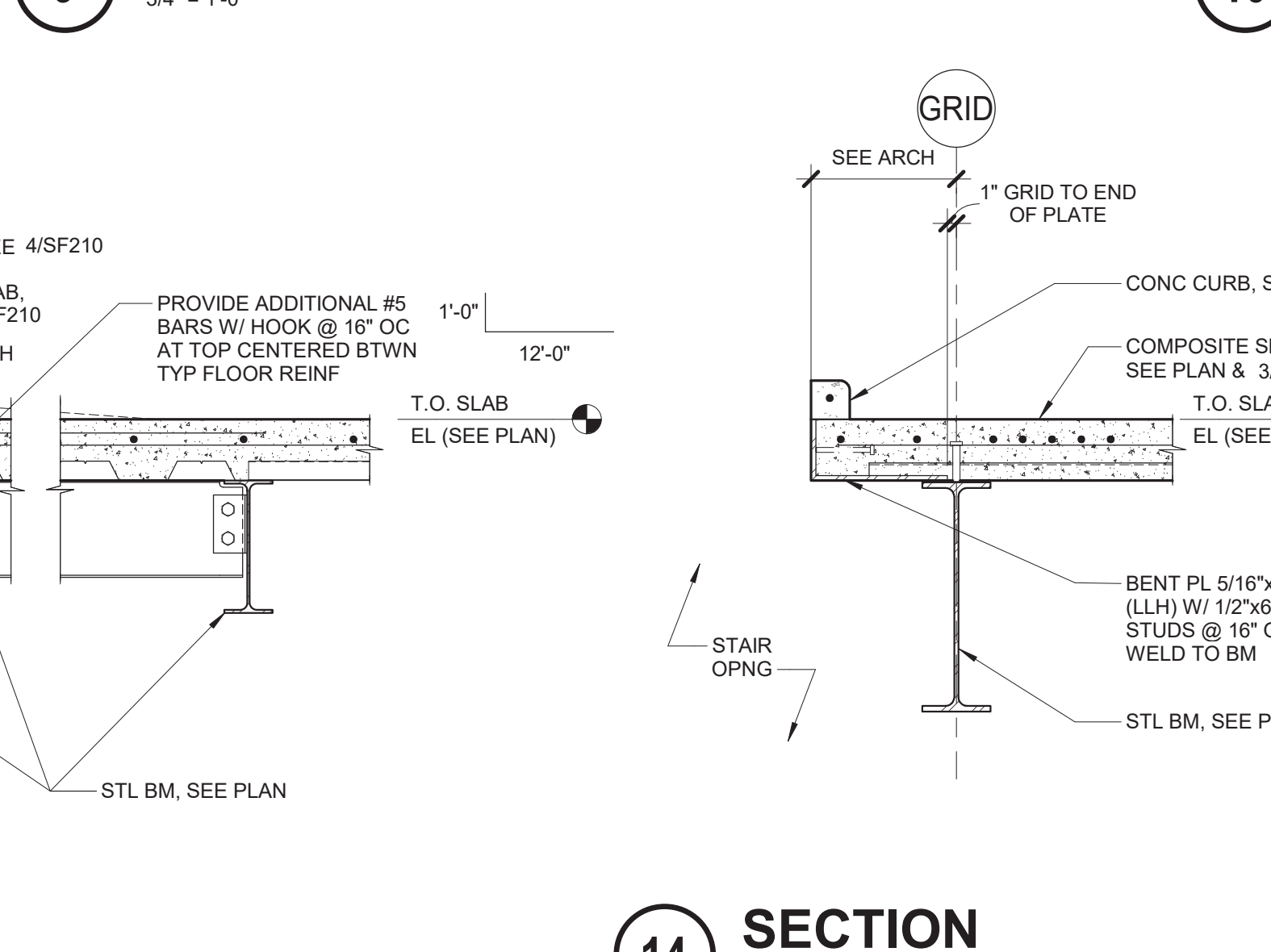
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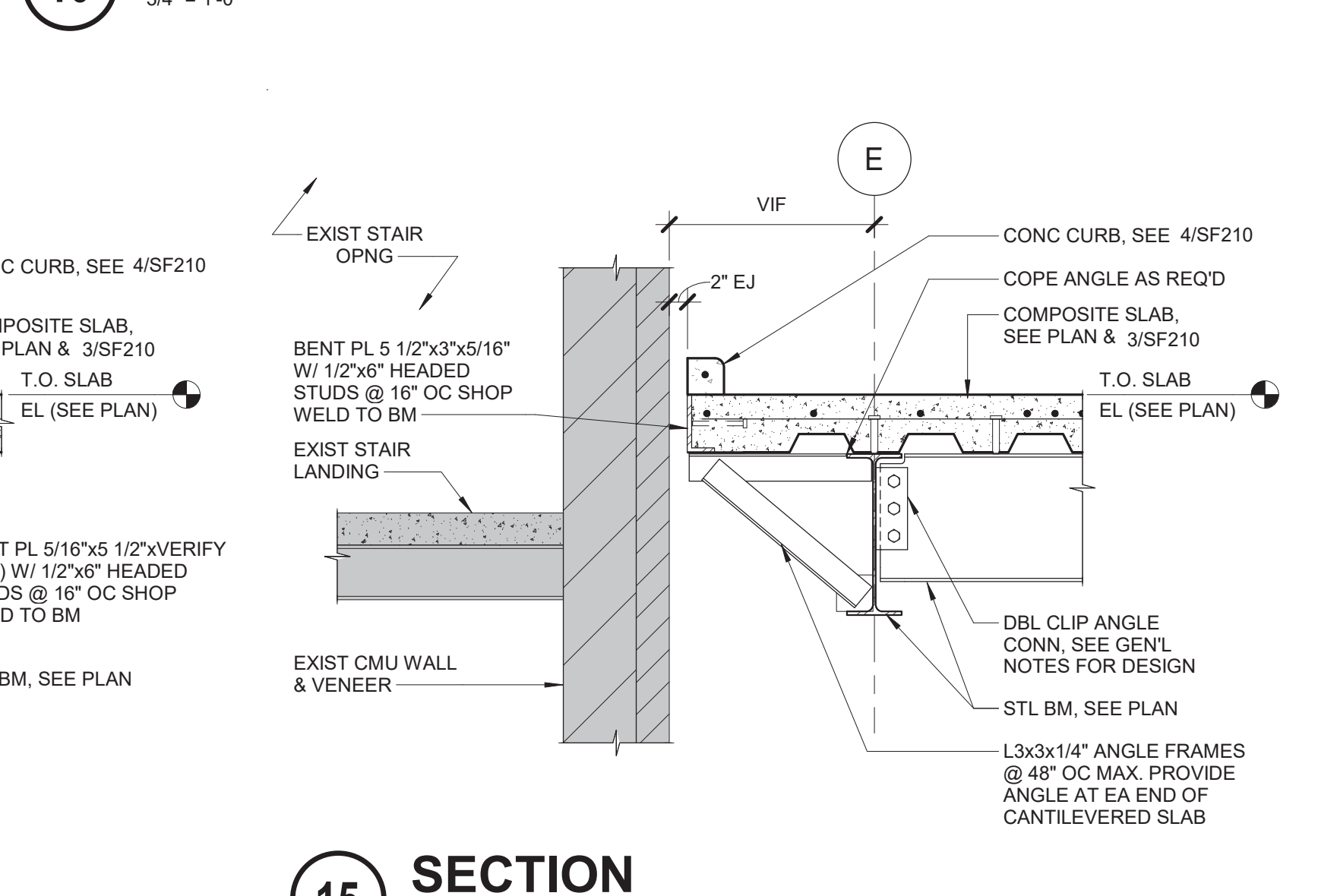
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3/4" = 1'-0"



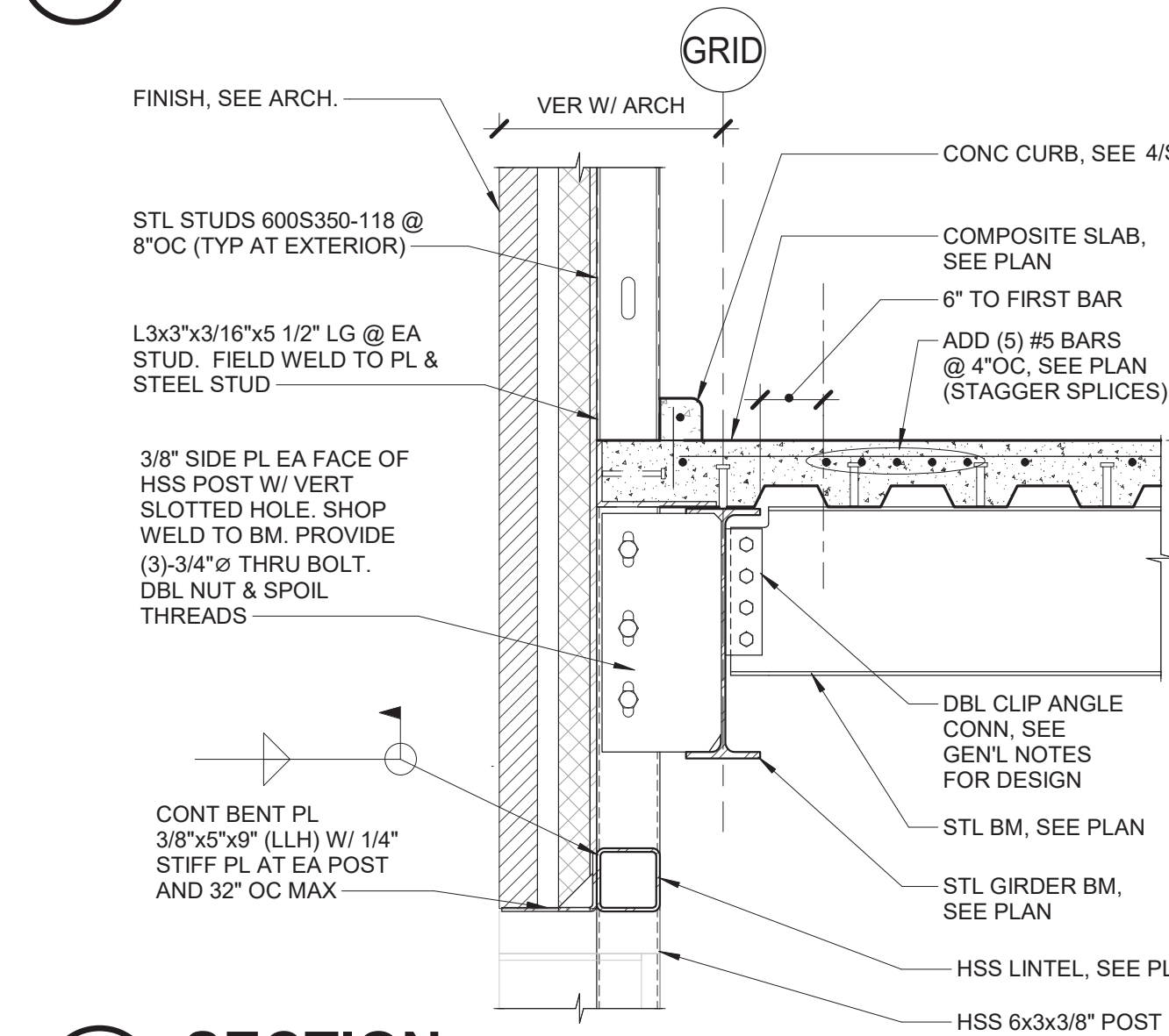
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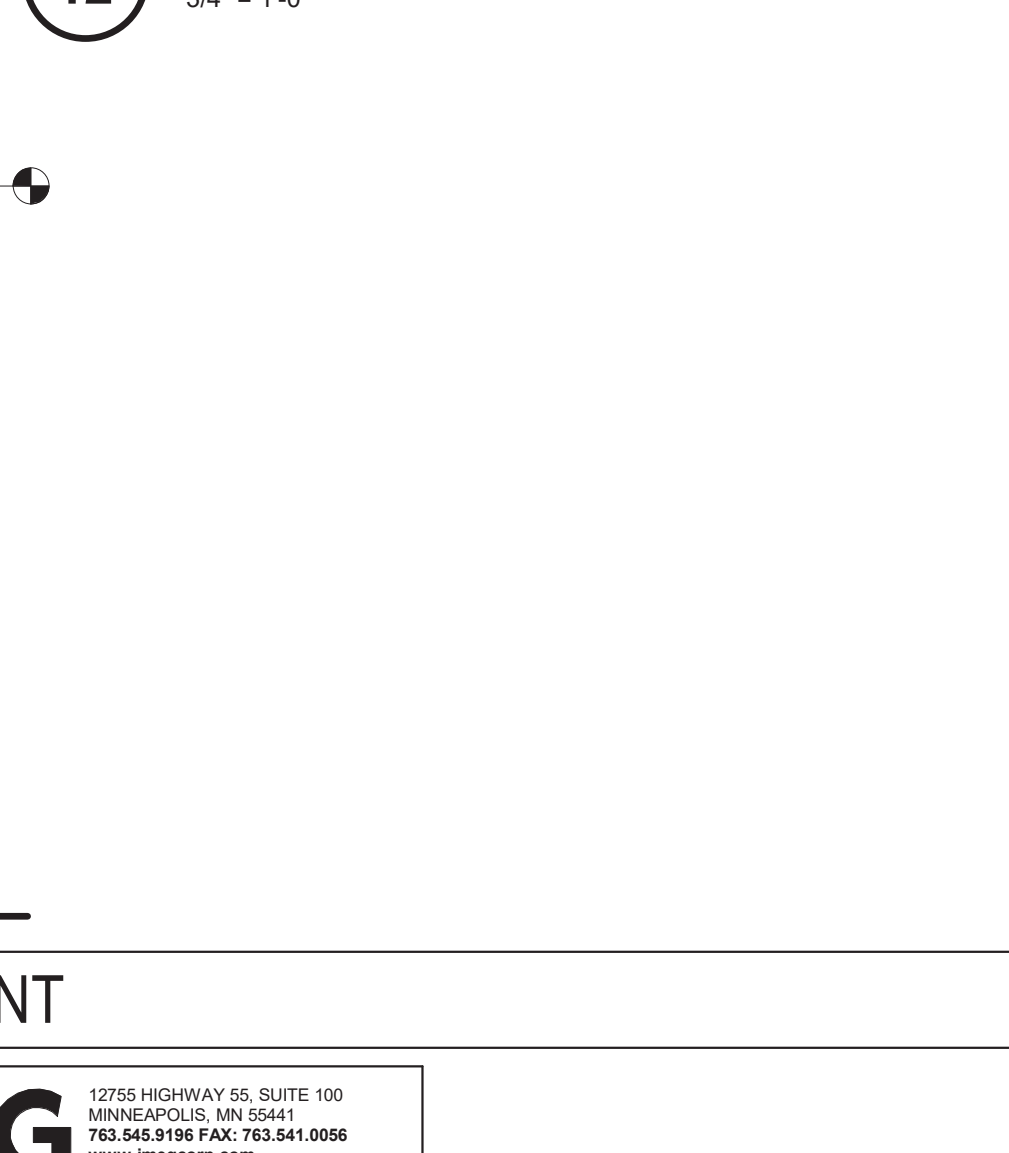
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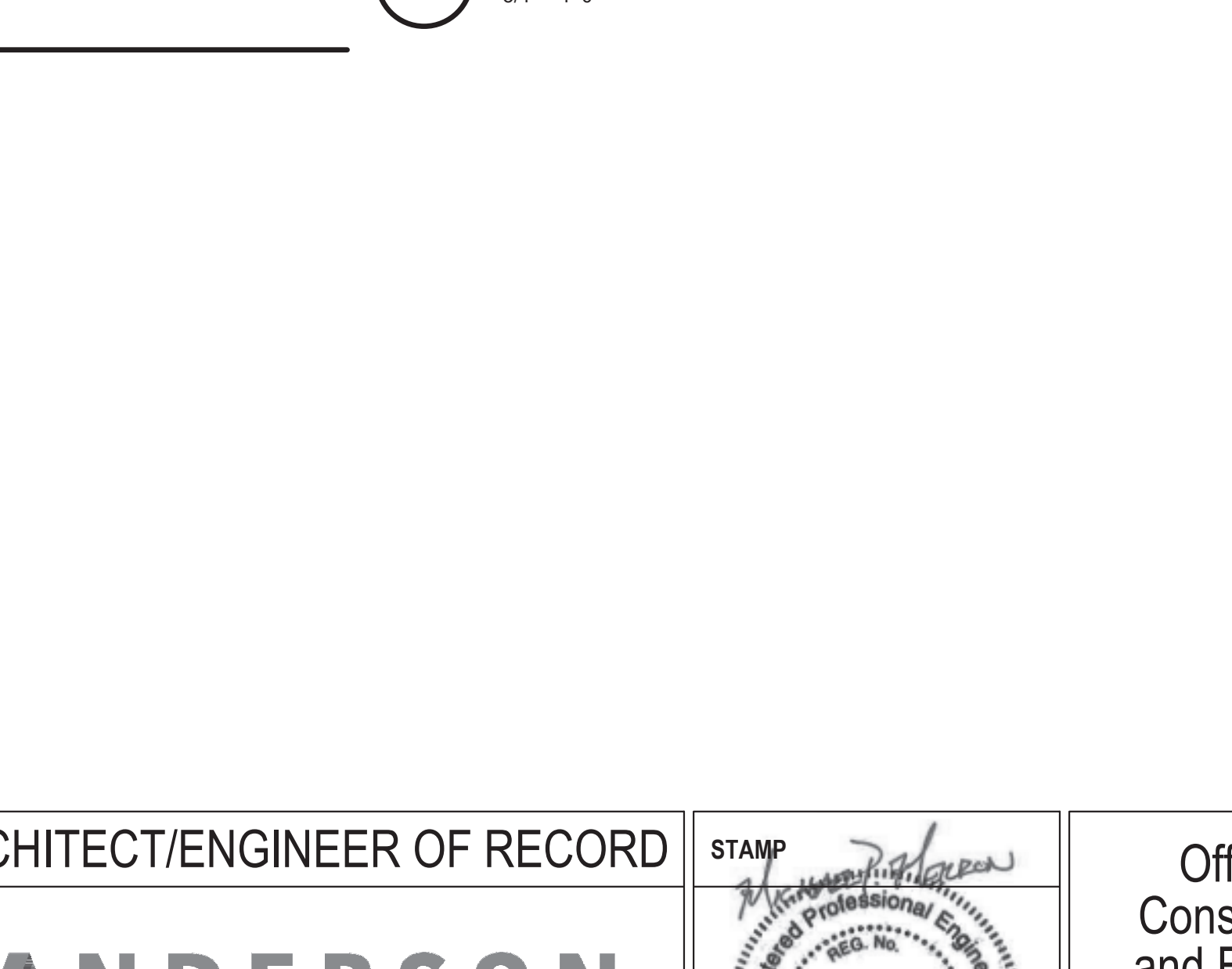
**11 SECTION**  
NO SCALE



**12 SECTION**  
3/4" = 1'-0"



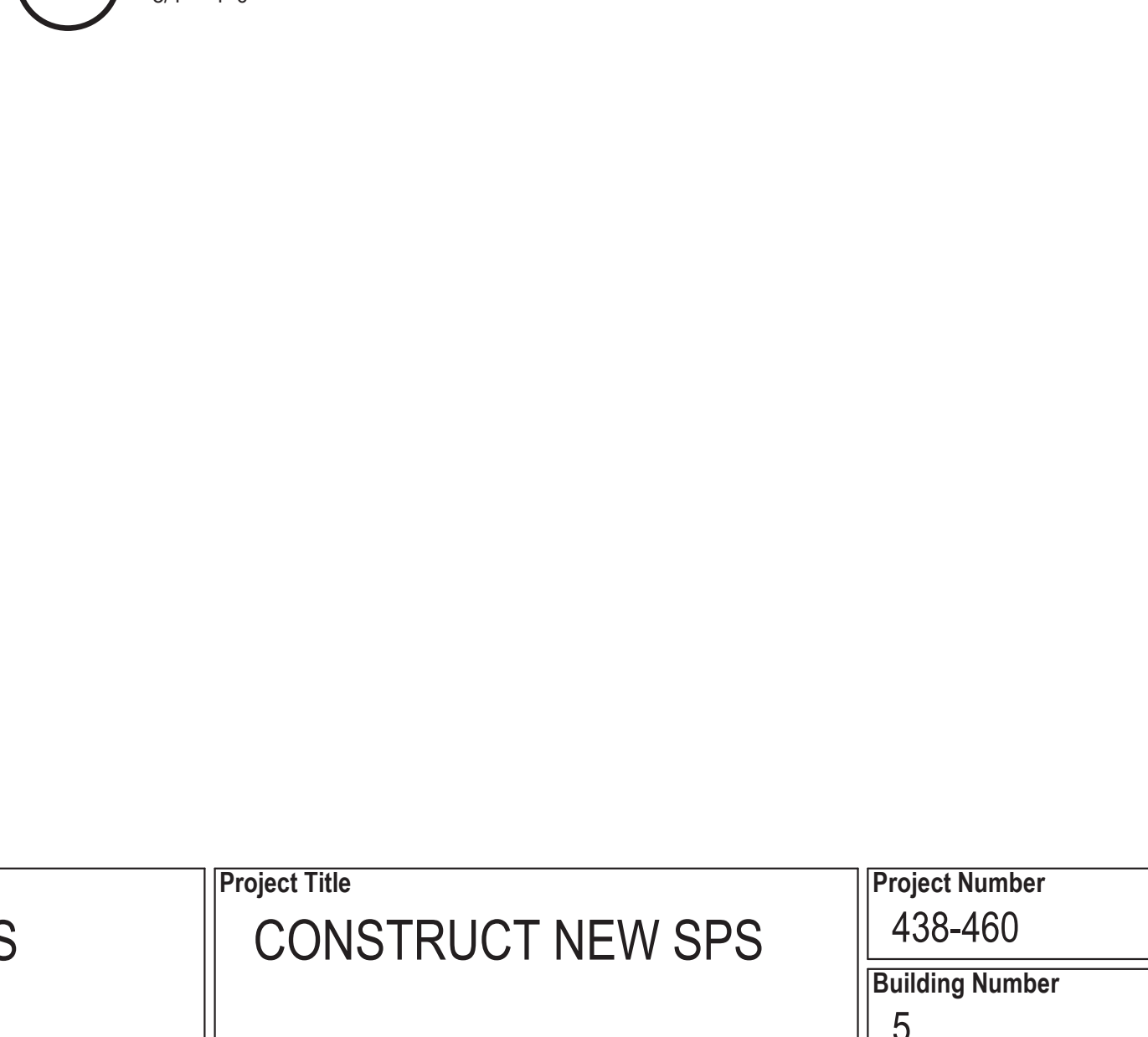
**13 SECTION**  
3/4" = 1'-0"



**14 SECTION**  
3/4" = 1'-0"



**15 SECTION**  
3/4" = 1'-0"



**16 SECTION**  
3/4" = 1'-0"



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<b>Revisions:</b>		<b>Date:</b>				<b>Approved:</b>		<b>Location</b> Sioux Falls, SD.	<b>Drawing Number</b> SF210
							<b>FULLY SPRINKLERED</b>	<b>Issue Date</b> 08/04/2022	<b>Checked</b> MPM/TGL
								<b>Drawn</b> MAQ	



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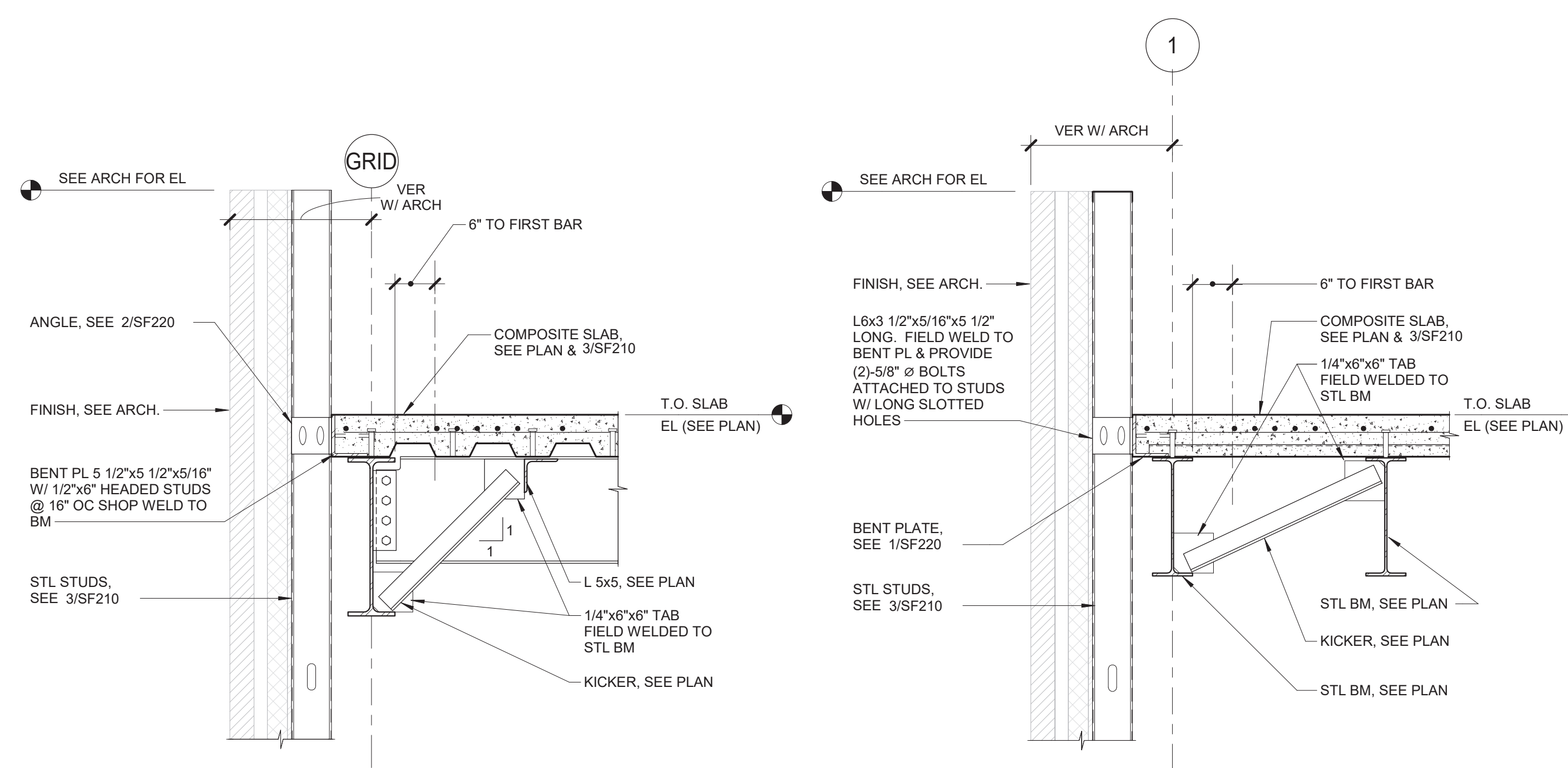
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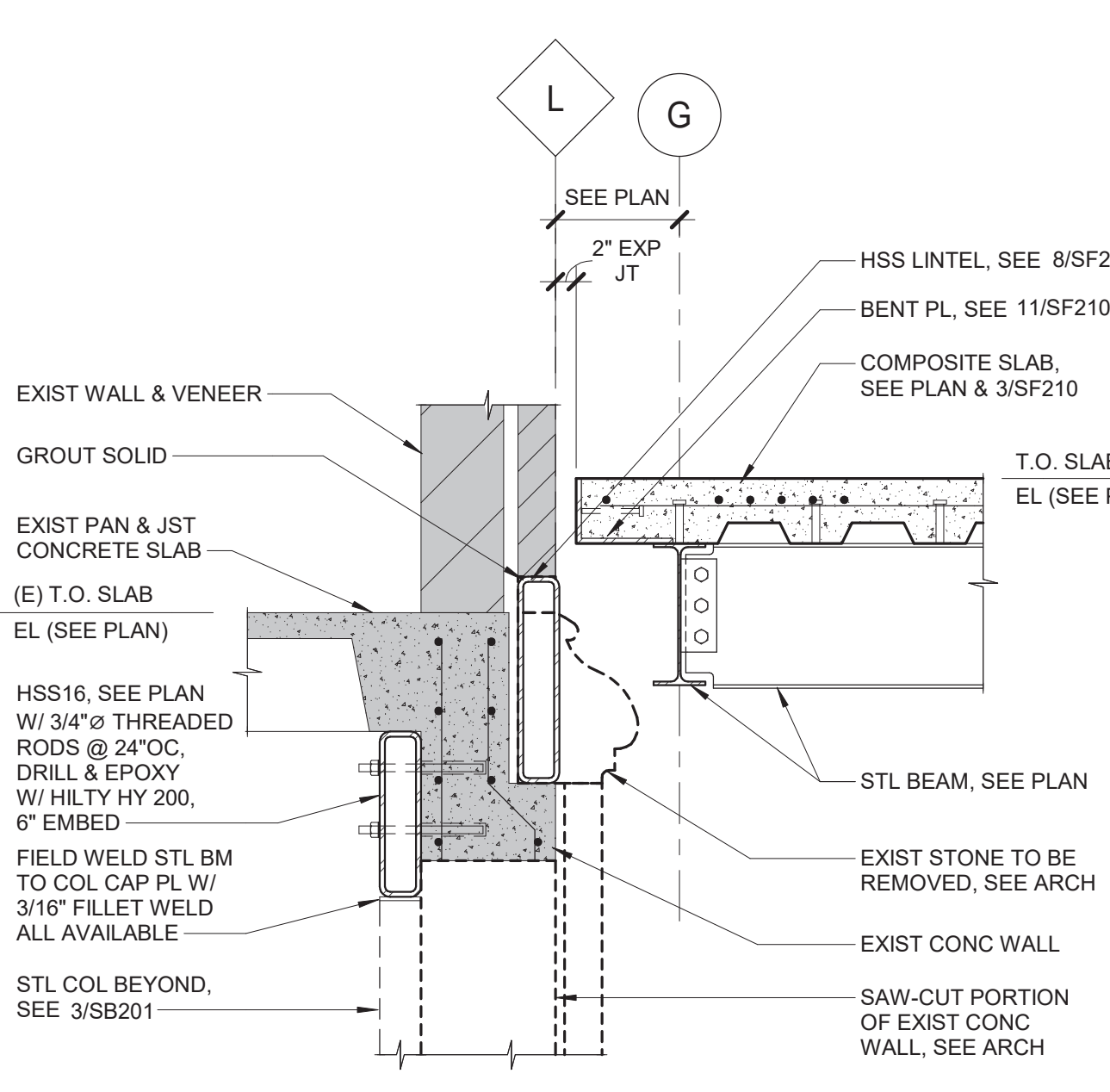
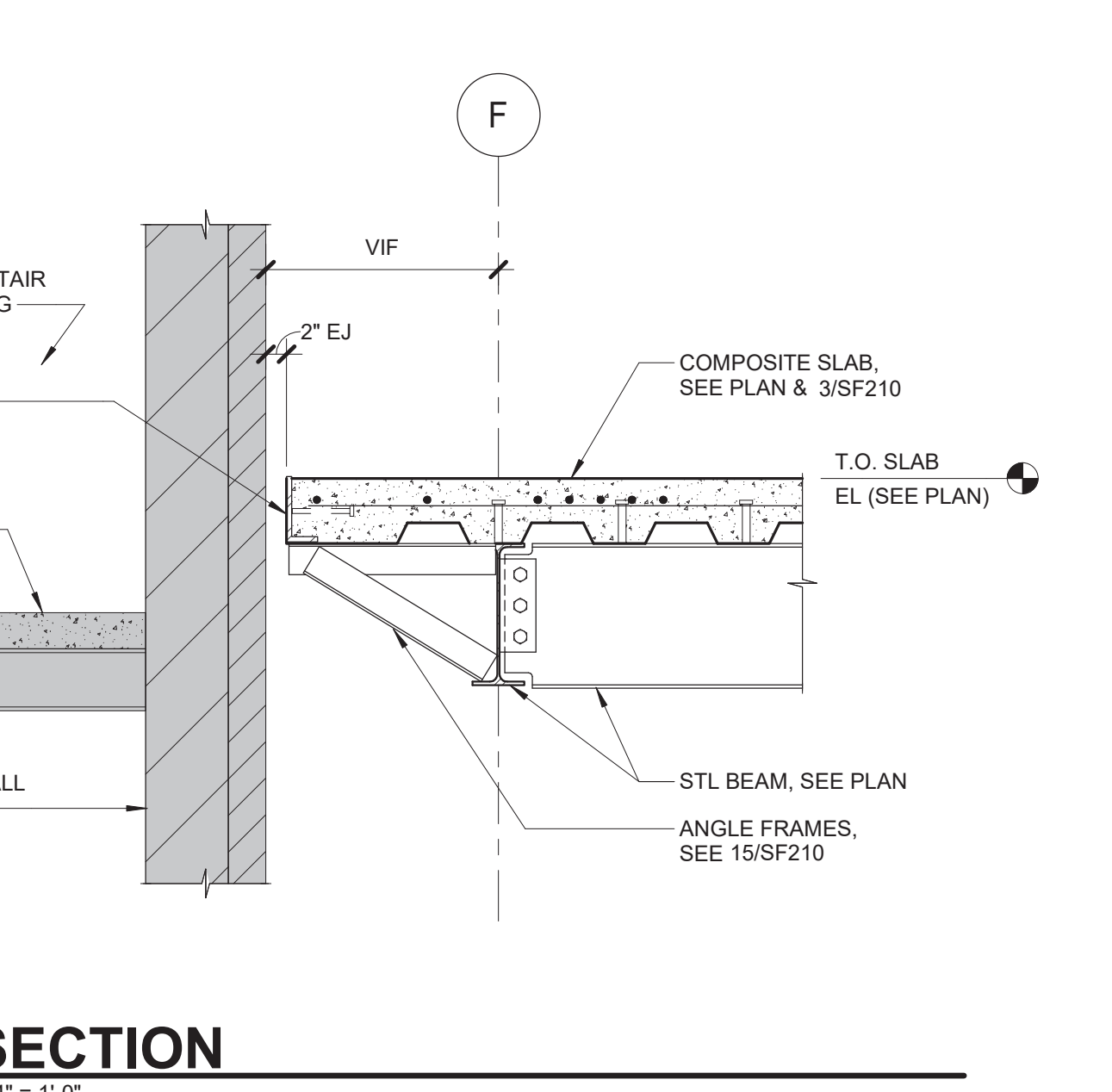
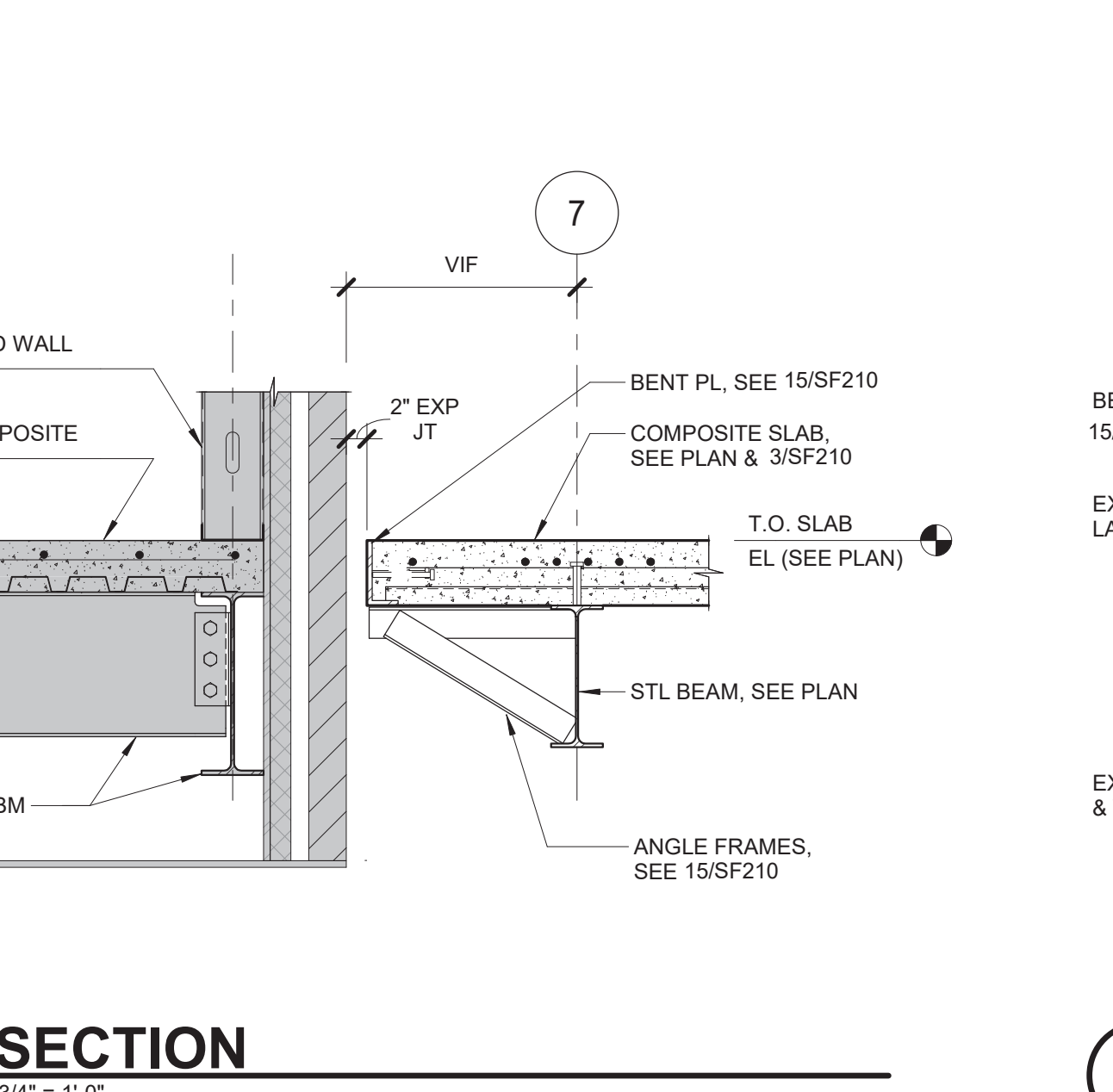
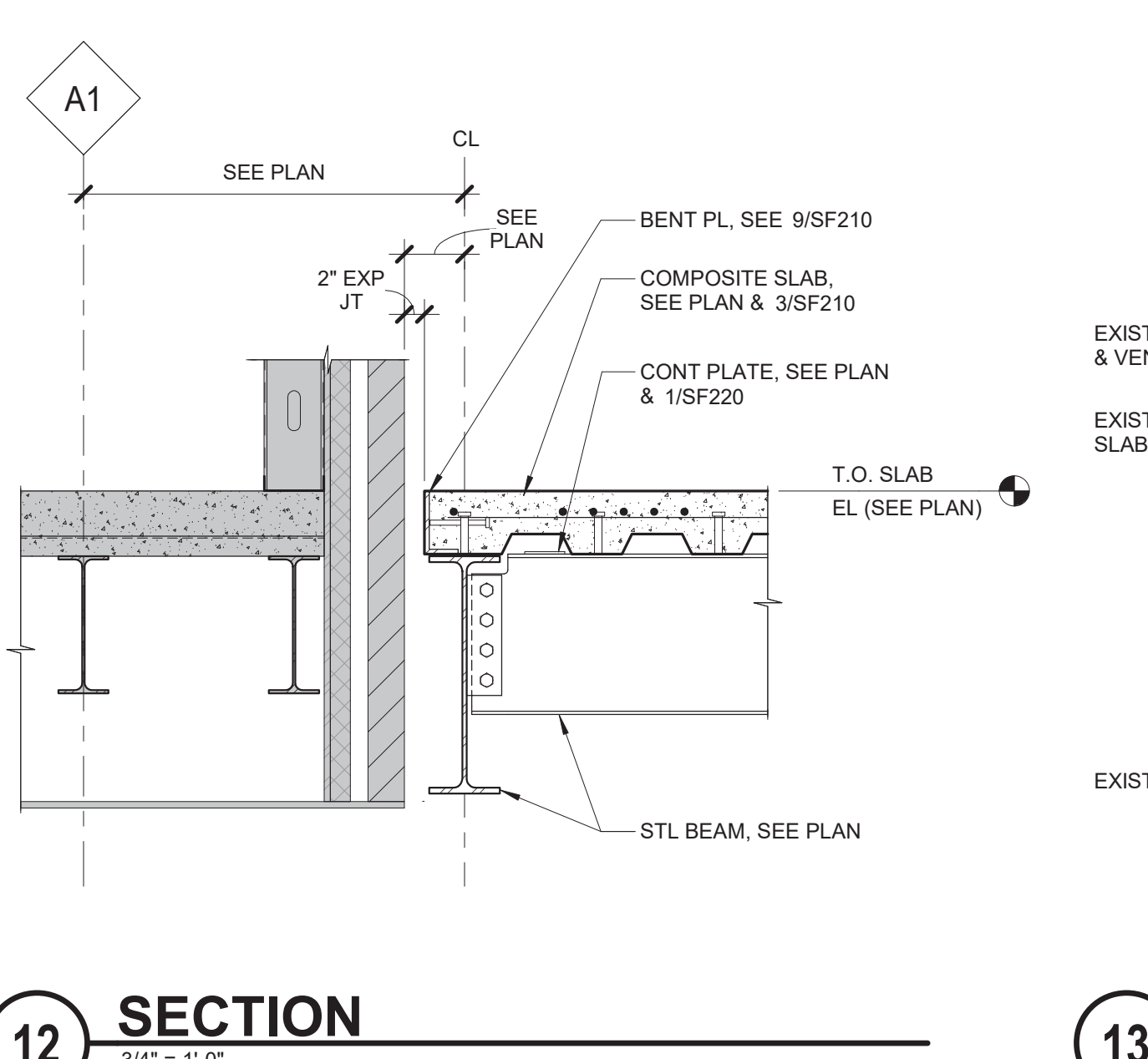
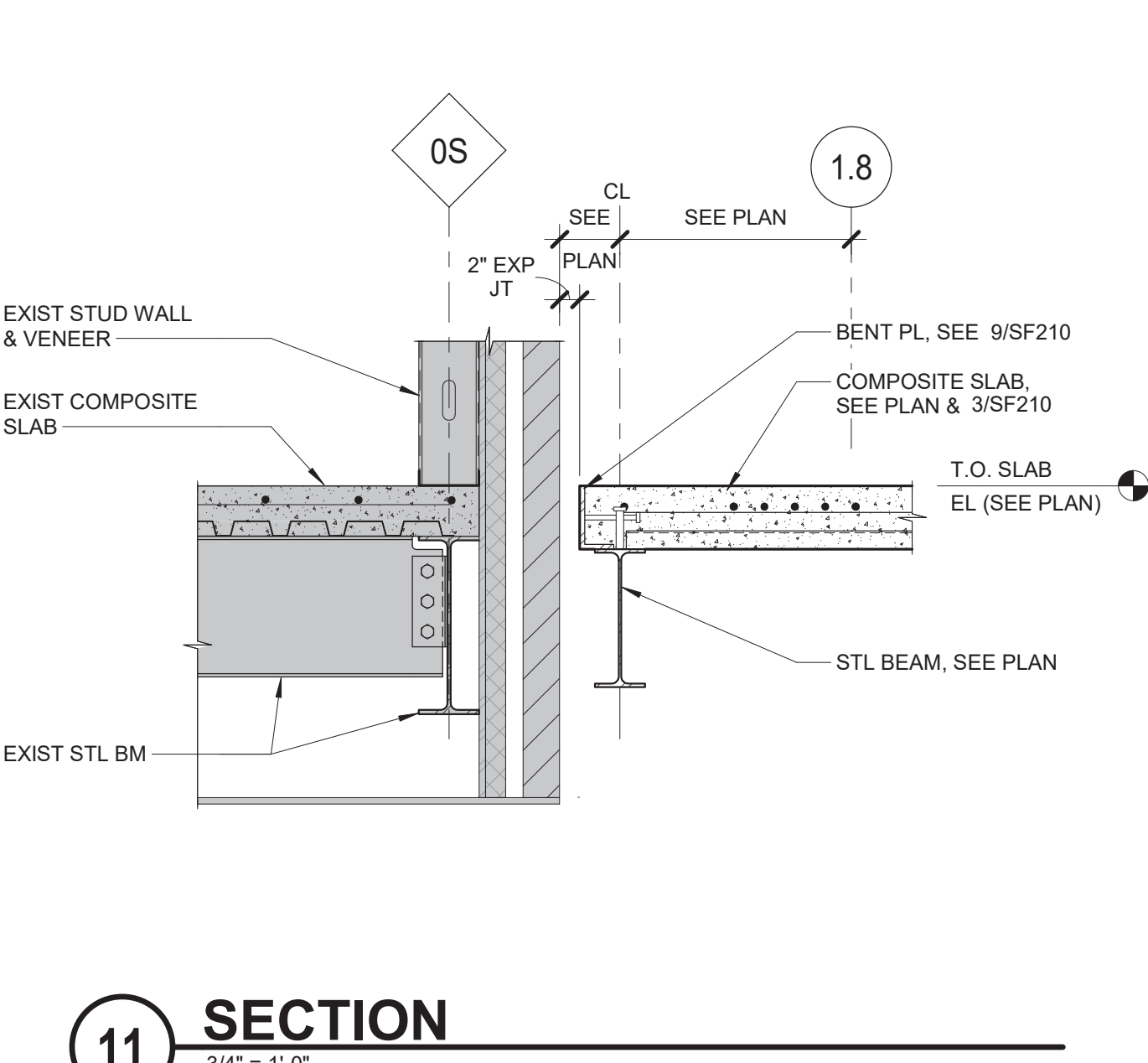
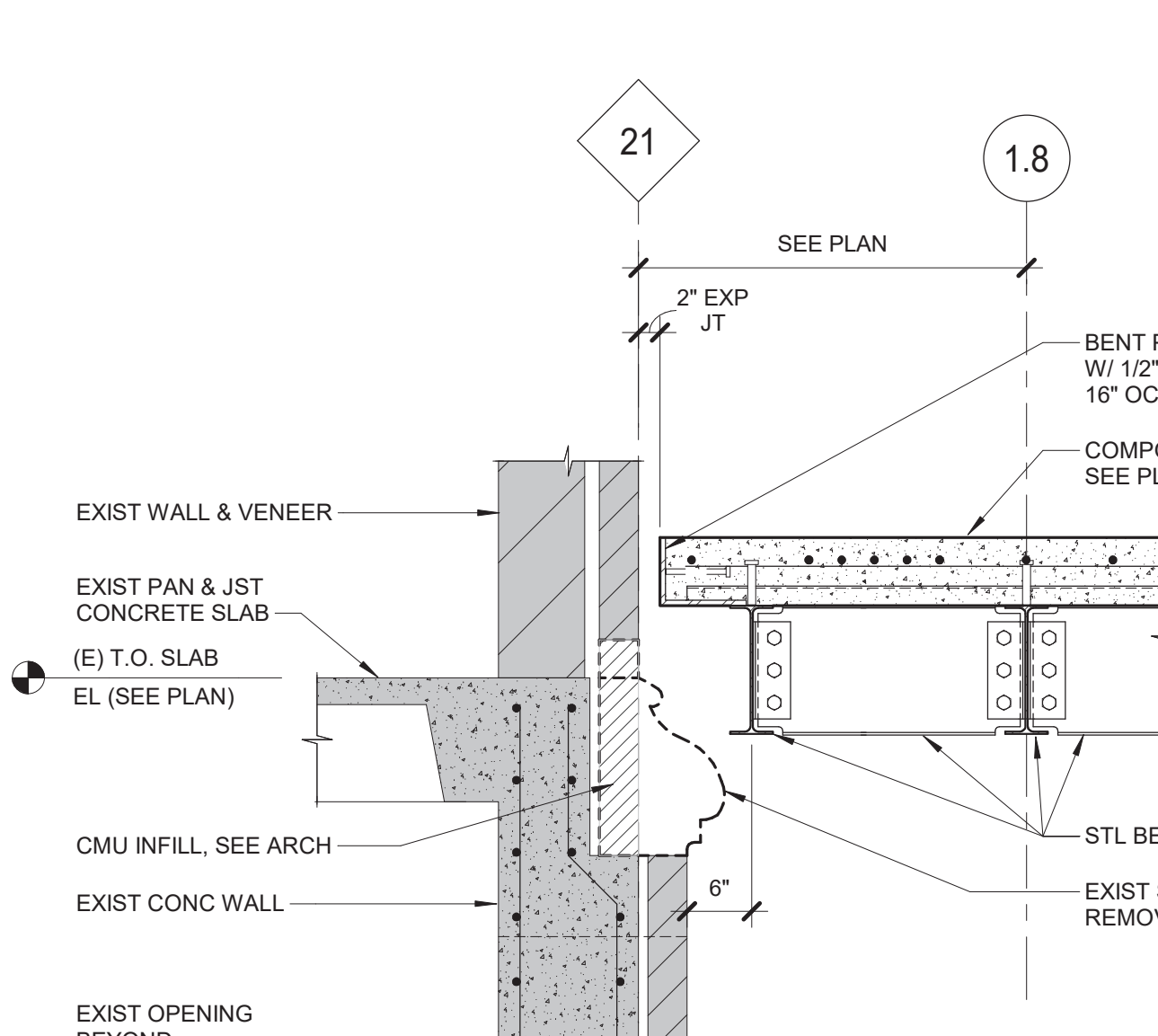
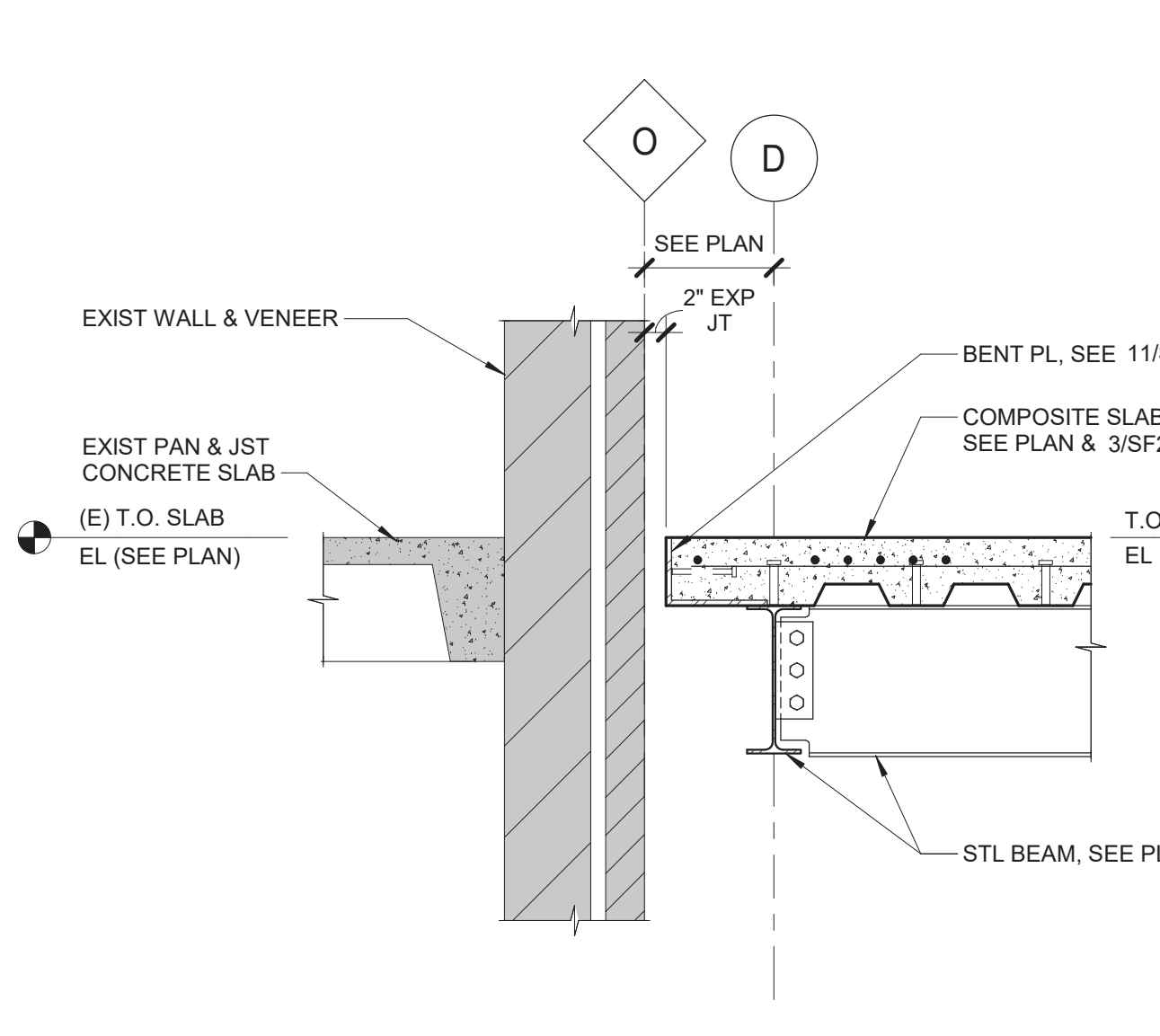
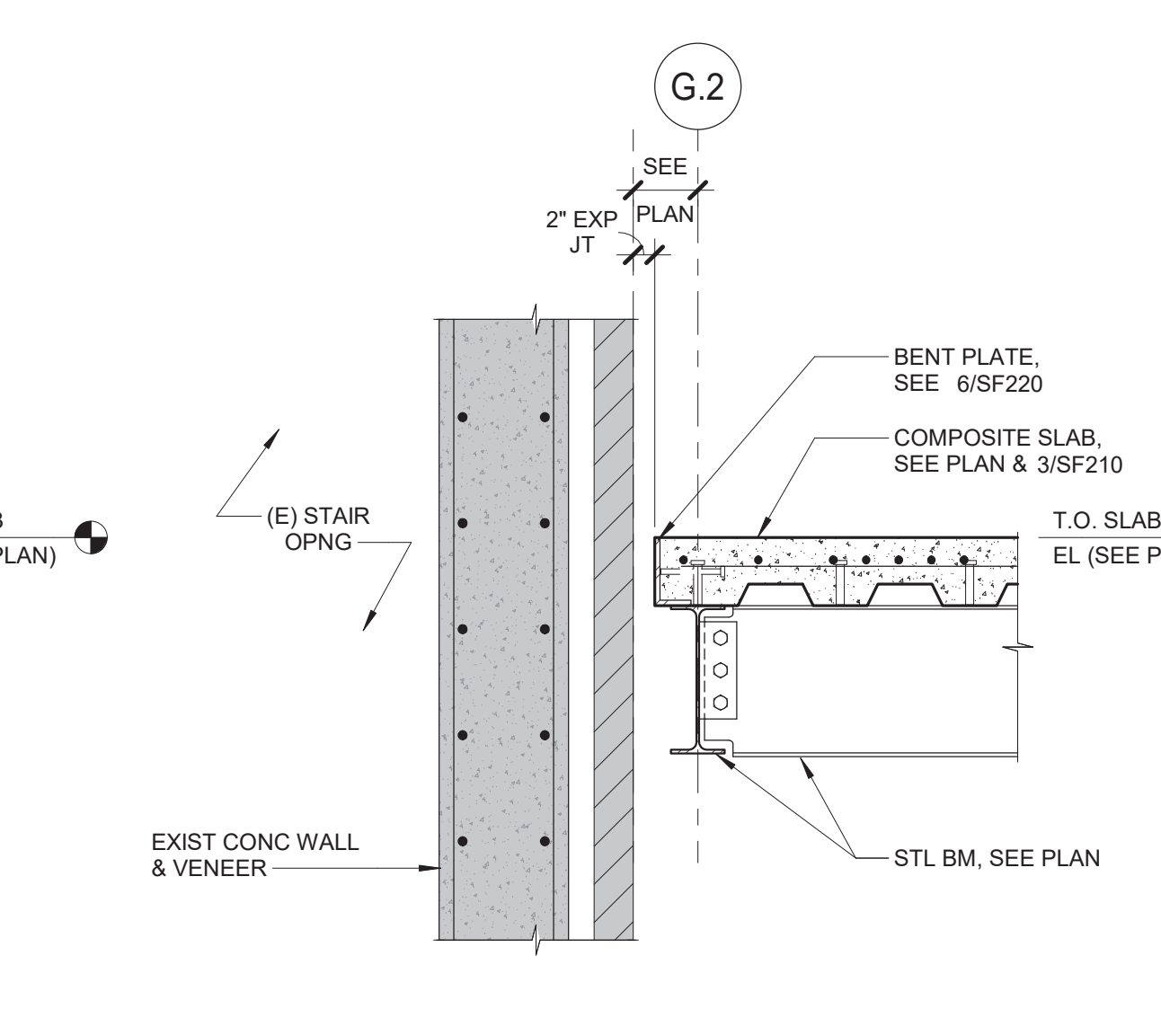
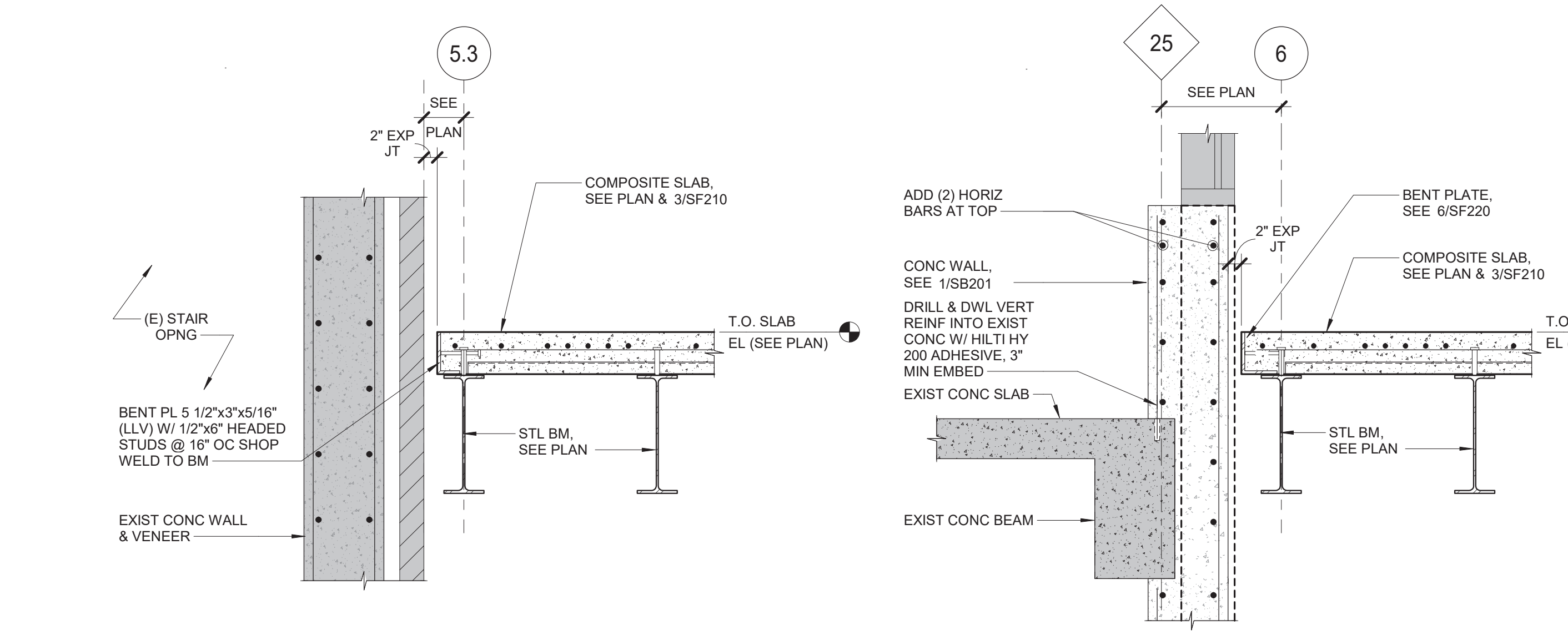
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3 BM. TO COL. CONNECTION  
3/4" = 1'-0"

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

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



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VA FORM 08 - 6231

Revisions:	Date:

CONSULTANT

**IMEG**

12755 HIGHWAY 55, SUITE 100  
MINNEAPOLIS, MN 55441  
P 763.412.4000 F 763.412.4090  
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PROJECT # 19004249.04

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REFERENCE SCALE IN INCHES

0 1 2 3

ARCHITECT/ENGINEER OF RECORD

**ANDERSON**

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P 763.412.4000 F 763.412.4090 | ae-mn.com  
Anderson Engineering of Minnesota, LLC | Proj # 19004249.04

STAMP

1128  
MICHAEL P. MERRON  
REGISTERED PROFESSIONAL ENGINEER  
MINNESOTA  
8-4-2022

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  
**08/04/2022**

Checked  
**MPM/TGL**

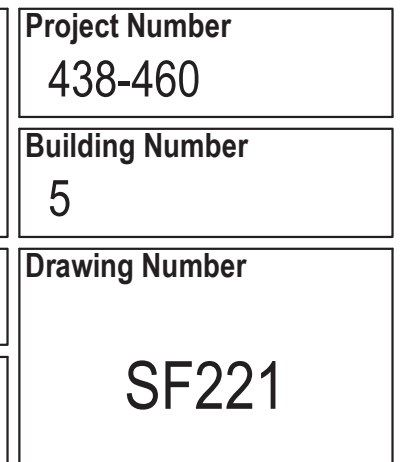
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Project Number  
**438-460**

Building Number  
**5**

Drawing Number  
**SF220**







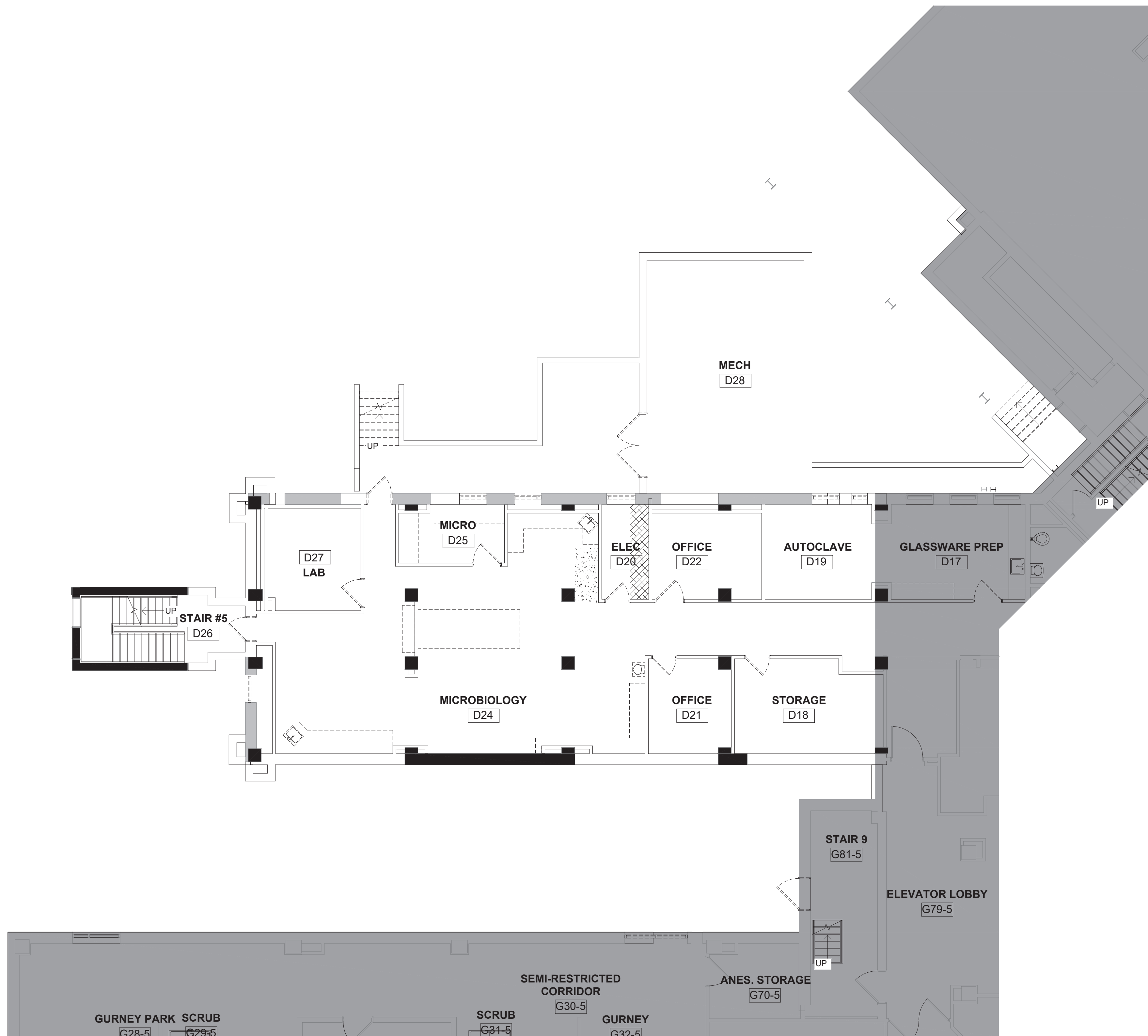




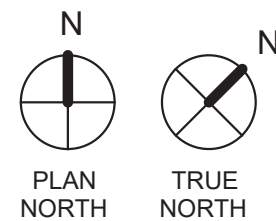
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VA FORM 08-6231

one eighth inch = one foot  
one quarter inch = one foot  
three eighths inch = one foot  
one half inch = one foot  
three quarters inch = one foot  
one inch = one foot  
one and one half inches = one foot  
two inches = one foot  
three inches = one foot  
four inches = one foot  
six inches = one foot  
eight inches = one foot  
ten inches = one foot  
twelve inches = one foot



ASBESTOS CONTAINING MATERIALS LOCATIONS  
FIRST FLOOR AND BELOW GRADE TUNNEL



ASBESTOS ABATEMENT PHASING:

1. THE ABATEMENT CONTRACTOR SHALL WORK CLOSELY WITH THE GENERAL CONTRACTOR, CONTRACTING OFFICER, OWNER OR OWNER'S REPRESENTATIVE, AND/OR THE VPIH TO COORDINATE REMOVAL OF ACM IN ACCORDANCE WITH PROJECT SCHEDULING, SEQUENCING, AND PHASING REQUIREMENTS. SOME AFTER HOURS AND WEEK-END WORK MAY BE REQUIRED. PHASING IS SUBJECT TO CHANGE TO ACCOMMODATE SITE CONDITIONS AND FACILITY OPERATIONS.

GENERAL NOTES:

1. THESE DRAWINGS ARE DIAGRAMMATIC AND FOR GENERAL IDENTIFICATION OF ASBESTOS-CONTAINING MATERIALS (ACM) AND LEAD-BASED PAINT (LBP) SUBJECT TO REMOVAL OR DISTURBANCE. THEIR ACCURACY IS NOT GUARANTEED. LOCATIONS AND QUANTITIES SHOWN OF ACM AND LBP TO BE REMOVED ARE REPRESENTATIVE BASED ON RECENT AND PREEXISTING SITE SURVEY INFORMATION. THE ABATEMENT CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL MATERIAL LOCATIONS AND REMOVAL QUANTITIES, AND EXISTING SITE CONDITIONS.
2. ASBESTOS REMOVAL IS BEING PERFORMED PURSUANT TO RENOVATION OF THE PROJECT AREAS. REMOVE AND DISPOSE OF ALL ACM IN ACCORDANCE WITH APPLICABLE REGULATIONS, PROJECT SPECIFICATIONS, AND THE APPROVED ASBESTOS HAZARD ABATEMENT PLAN (AHAP). IF SUSPECT ACMs ARE ENCOUNTERED DURING CONSTRUCTION AND DEMOLITION THAT ARE NOT IDENTIFIED ON THE ASBESTOS ABATEMENT DRAWINGS, STOP WORK AND CONTACT THE PROJECT MANAGER AND VPIH.
3. ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS; PROJECT SPECIFICATIONS, THE APPROVED WORK PLAN, AND ACCEPTED INDUSTRY PRACTICE. WHEN REQUIREMENTS OVERLAP OR CONFLICT, THE MOST STRINGENT REQUIREMENT SHALL APPLY. ALL WORK SHALL BE SUBJECT TO INSPECTION BY THE OWNER, THE OWNER'S CONSULTANTS, AND REGULATORY PERSONNEL.
4. DEMOLITION OF NON-ACM BUILDING MATERIALS MAY BE REQUIRED TO ACCESS REGULATED MATERIALS, INCLUDING, BUT NOT LIMITED TO, CABINETS, RAISED FLOORING, GYPSUM WALLBOARD, EXPANDED METAL OR WOOD LATH AND PLASTER WALLS AND CEILINGS, WALL FRAMING, CARPET, CERAMIC AND VINYL FLOOR COVERINGS, WOOD, ETC. THE ABATEMENT CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION OF NON-ACM MATERIALS AS NEEDED TO ACCESS REGULATED MATERIALS FOR ABATEMENT, AND FOR COORDINATING THE LIMITS OF DEMOLITION AND ABATEMENT WITH THE GENERAL CONTRACTOR.
5. ALL COSTS ASSOCIATED WITH EXPLORATORY DEMOLITION AND DEMOLITION OF NON-ACM MATERIALS NEEDED TO ACCOMPLISH ABATEMENT SHALL BE INCLUDED IN THE ABATEMENT CONTRACTOR'S LUMP SUM PRICE FOR THE PROJECT. NO ADDITIONAL COMPENSATION SHALL BE CONSIDERED FOR THIS WORK.

ASBESTOS NOTES:

1. ESTABLISH REGULATED AREA (MINOR DECONTAMINATION AREA) AND REMOVE 12X12" VFT AND BLACK MASTIC. ALTHOUGH VFT IS NON-ASBESTOS CONTAINING, THE MASTIC CANNOT BE SEPARATED FROM THE VFT. REMOVE 12X12" FLOOR TILE AND BLACK MASTIC AS REQUIRED BY SECTION 02 82 13.19.
2. CONCEALED TSI CONTAINING ACM MAY EXIST IN WALLS, ABOVE CEILING, IN PIPE CHASES, AND WITHIN WALL PENETRATIONS. IF SUSPECT ACMs ARE ENCOUNTERED DURING CONSTRUCTION AND DEMOLITION THAT ARE NOT IDENTIFIED ON THE ASBESTOS ABATEMENT DRAWINGS, STOP WORK AND CONTACT THE PROJECT MANAGER OF VPIH.
3. THE PROJECT AREA WAS RECENTLY SURVEYED FOR ACM. REFER TO THE HAZARDOUS BUILDING MATERIALS INSPECTION REPORT BY AMI ENVIRONMENTAL, DATED MAY 22, 2019 REVISED JANUARY 24, 2020 FOR MORE INFORMATION ABOUT ACMs IDENTIFIED IN THE PROJECT AREA.
4. ASSUME 90% EFFICIENCY WHEN CALCULATING NAM REQUIREMENTS FOR ACHIEVING FOUR (4) AIR CHANGES PER HOUR AND PROVIDED GREATER THAN -0.02" WCG PRESSURE. CONFIGURE AND PLACE NAMS AS NEEDED TO MAXIMIZE AIR MOVEMENT AND PREVENT DEAD AIR SPACE. COORDINATE NEGATIVE AIR DISCHARGE LOCATIONS WITH GENERAL CONTRACTOR, OWNER'S REPRESENTATIVE, AND VPIH, IF NEEDED.

SUMMARY OF LEAD-BASED PAINT MATERIALS

DESCRIPTION	CONDITION	EST. QTY.	HATCHING
BLACK MASTIC 12X12 VINYL FLOOR TILE (VFT)		50 FT²	
BLACK MASTIC IN MECHANICAL ROOM		44 FT²	

Revisions:	Date

CONSULTANTS:

**AMI**  
ENVIRONMENTAL  
AMI ENVIRONMENTAL  
8802 SOUTH 135TH STREET,  
SUITE 100  
OMAHA, NEBRASKA, 68138  
PH: (402) 397-3313

ARCHITECT/ENGINEERS:

Drawing Title  
**ASBESTOS CONTAINING MATERIALS**

Approved: Project Director  
**SIoux FALLS  
VAMC**

Project Title  
**ASBESTOS CONTAINING  
MATERIALS**

Location  
**SIoux FALLS, SOUTH DAKOTA**

Date  
08/04/2022

Checked  
WHC

Drawn  
MET

Project Number  
**438-460**

Building Number  
**5**

Drawing Number  
**HA101**

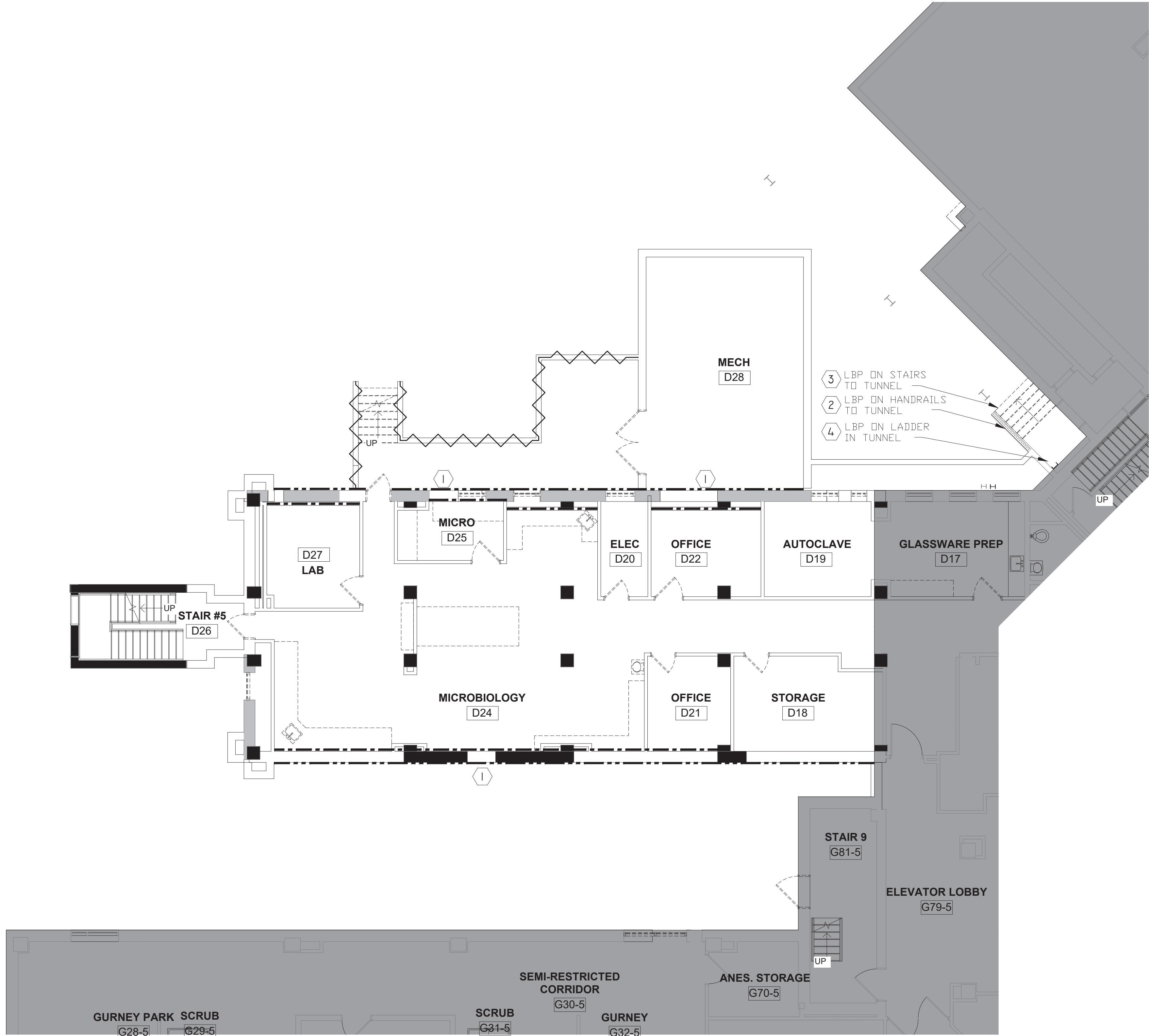
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and Facilities  
Management



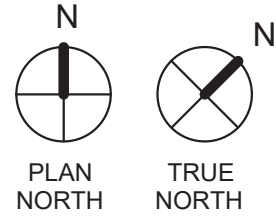
one eighth inch = one foot  
one quarter inch = one foot  
three eighths inch = one foot  
one half inch = one foot  
three quarters inch = one foot  
one and one half inches = one foot  
two inches = one foot  
three inches = one foot  
four inches = one foot  
five inches = one foot  
six inches = one foot  
seven inches = one foot  
eight inches = one foot  
nine inches = one foot  
ten inches = one foot  
eleven inches = one foot  
twelve inches = one foot

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LEAD-BASED PAINT LOCATIONS  
FIRST FLOOR AND BELOW GRADE TUNNEL



LEAD NOTES:

- LBP IS KNOWN TO EXIST ON MATERIALS, COMPONENTS, AND SURFACES THAT MAY BE DISTURBED, PENETRATED, REFINISHED, OR DEMOLISHED. PERFORM DEMOLITION OF MATERIALS AND COMPONENTS WITH LBP AND/OR PCL IN ACCORDANCE WITH APPLICABLE REGULATIONS, SECTION 02 83 33.13, LEAD-BASED PAINT REMOVAL AND DISPOSAL AND THE APPROVED WORK PLAN.
- CONCEALED LBP MAY BE PRESENT ON SURFACES BEHIND WALLS AND MAY BE IMPACTED FOR PENETRATIONS, OR WALL DEMOLITION. LBP DUST MUST BE CONTROLLED ACCORDING THE 29 CFR 1926.62. PERFORM CLEANUP AND DISPOSAL OF LBP DUST AND DEBRIS IN ACCORDANCE WITH SECTION 02 83 33.13, LEAD-BASED PAINT REMOVAL AND DISPOSAL.
- LEAD-BASED PAINT (LBP) ARE PAINTS THAT CONTAIN LEAD  $\geq 1.0$  mg/m<sup>2</sup> or  $\geq 0.5$  PERCENT BY WEIGHT. PAINT CONTAINING LEAD (PCL) IS PAINT WITH A DETECTABLE LEVEL OF LEAD. LBP AND PCL ARE KNOWN TO EXIST ON MATERIALS, COMPONENTS, AND SURFACES THAT MAY BE DISTURBED, PENETRATED, REFINISHED, OR DEMOLISHED. PERFORM DEMOLITION OF MATERIALS AND COMPONENTS WITH LBP AND/OR PCL IN ACCORDANCE WITH APPLICABLE REGULATIONS AND THE APPROVED WORK PLAN.
- FLAKING AND PEELING LBP AND/OR PCL ON SURFACES TO REMAIN SHALL BE REMOVED AND STABILIZED USING METHODS IN ACCORDANCE WITH SECTION 02 83 33.13, LEAD-BASED PAINT REMOVAL AND DISPOSAL.
- REFER TO THE HAZARDOUS BUILDING MATERIALS INSPECTION REPORT BY AMI ENVIRONMENTAL, DATED MAY 22, 2019, REVISED JANUARY 24, 2020 FOR INFORMATION CONCERNING THE PRESENCE OF LBP AND PCL IN THE PROJECT AREAS.

SUMMARY OF LEAD-BASED PAINT MATERIALS

DESCRIPTION	CONDITION	EST. QTY.	HATCHING OR KEYNOTE
LEAD-BASED PAINT (LBP) ON EXTERIOR HAND RAILS	FAIR	150 LF	
LBP ON EXTERIOR GRATES	POOR	15 FT <sup>2</sup>	
LBP ON EXTERIOR WINDOW TOP PLATES	POOR	44 FT <sup>2</sup>	
LBP ON INTERIOR WINDOW SILLS	FAIR	50 FT <sup>2</sup>	
LBP ON HANDRAIL TO TUNNEL	FAIR	25 LF	
LBP ON STAIRS IN TUNNEL	FAIR	100 FT <sup>2</sup>	
LBP ON LADDER IN TUNNEL	FAIR	1 EACH	

Revisions:	Date

CONSULTANTS:

**AMI ENVIRONMENTAL**  
AMI ENVIRONMENTAL  
8802 SOUTH 135TH STREET,  
SUITE 100  
OMAHA, NEBRASKA, 68138  
PH: (402) 397-3313

ARCHITECT/ENGINEERS:

Drawing Title

LEAD CONTAINING MATERIAL

Approved: Project Director

SIOUX FALLS VAMC

Project Title

SIOUX FALLS VAMC NEW SPS ADDITION

Location

SIOUX FALLS, SOUTH DAKOTA

Date

08/04/2022

Checked

WHC

Drawn

MET

Project Number

438-460

Building Number

5

Drawing Number

HA102

Office of Construction and Facilities Management



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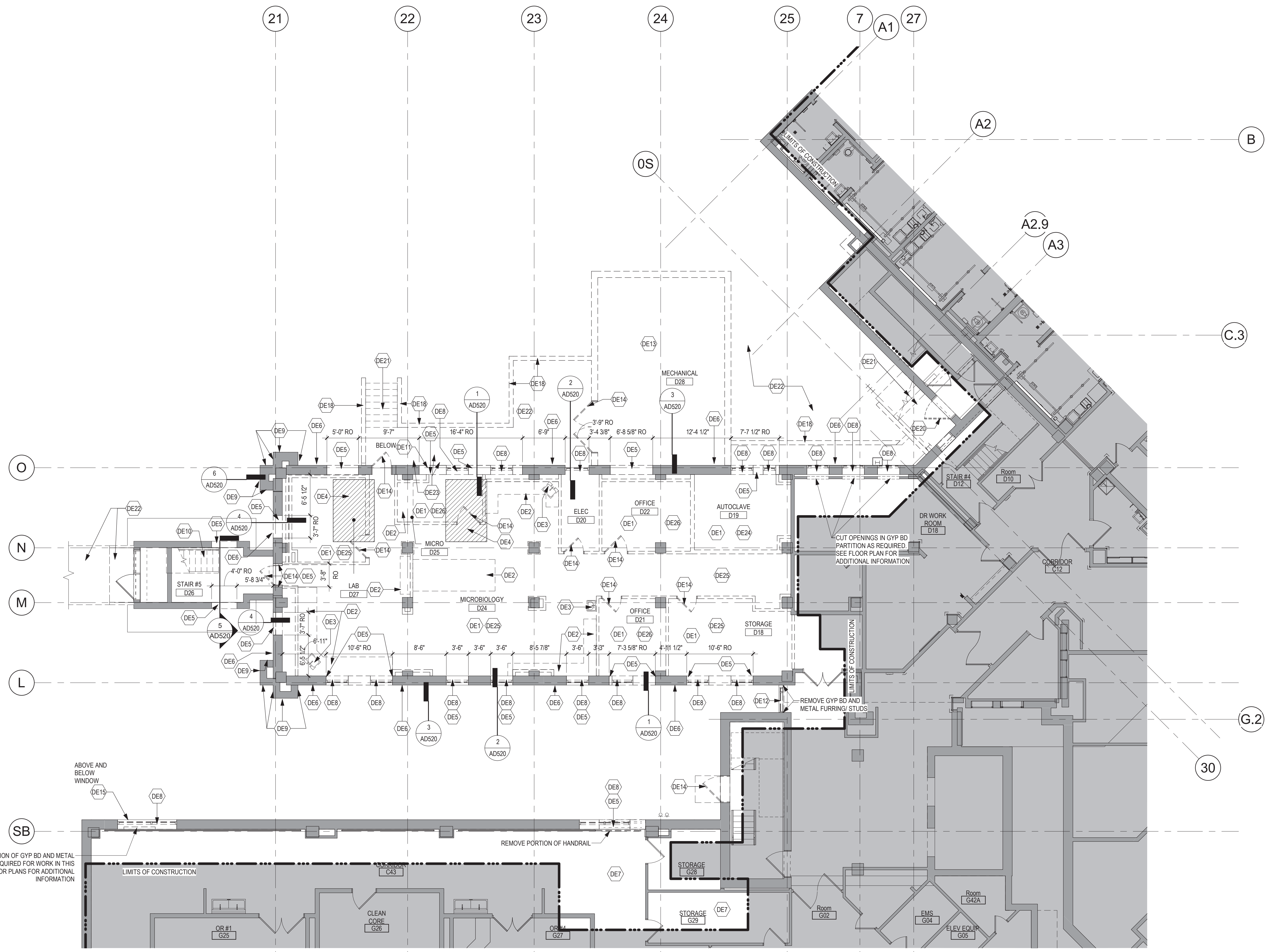
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NOTE:  
COORDINATE GENERAL DEMOLITION WORK WITH ABATEMENT AND REMEDIATION WORK

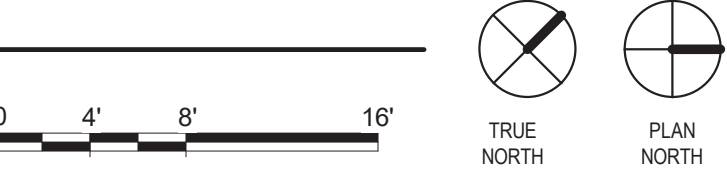
DEMOLITION PLAN SYMBOLS		
	EXISTING WALL TO REMAIN	
	WALL OR PARTITION TO BE REMOVED	
	DASHED LINE INDICATES ITEM TO BE REMOVED (JND)	
	GRIDLINE	
NOTE: NOT ALL SYMBOLS MAY BE USED ON EACH PLAN		

- ### DEMOLITION GENERAL NOTES
- GENERAL CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK, PHASING AND SEQUENCING WITH THE OWNER. ANY INFORMATION REGARDING SEQUENCING PROVIDED IN THESE DOCUMENTS IS FOR ARCHITECT - OWNER PLANNING PURPOSES ONLY, UNLESS NOTED OTHERWISE.
  - GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL TRADES FOR THE DEMOLITION WORK REQUIRED FOR THIS PROJECT.
  - WHERE PARTITIONS ARE INDICATED TO BE REMOVED, REMOVE PARTITION ALONG WITH ALL ITEMS CONTAINED WITHIN, INCLUDING DOORS, FRAMES, HARDWARE, SIDELIGHTS, WINDOWS, MECHANICAL AND ELECTRICAL EQUIPMENT, ETC. TO STRUCTURE ABOVE, UNLESS NOTED OTHERWISE.
  - WHERE FLOOR FINISH IS INDICATED TO BE DEMOLISHED, REMOVE FINISH TO FLOOR SLAB AS REQUIRED AND PREPARE SLAB SURFACE FOR SCHEDULED FINISHES WITHIN AREA TO BE REMODELED. UNLESS NOTED OTHERWISE, SEE FINISH SCHEDULE FOR EXISTING FLOOR FINISHES TO REMAIN UNDISTURBED.
  - WHERE CEILING IS INDICATED TO BE DEMOLISHED, REMOVE CEILING SUSPENSION SYSTEM ALONG WITH ALL ASSOCIATED MECHANICAL AND ELECTRICAL ITEMS, UNLESS NOTED OTHERWISE. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR EXTENT OF CONDUIT, PIPING AND DUCTWORK DEMOLITION WITHIN AREA TO BE REMODELED.
  - WHERE INDICATED, REMOVE ALL WALL/PARTITION EXISTING FINISHES AND PREPARE THE SURFACES FOR SCHEDULED FINISHES. SEE FINISH SCHEDULE FOR FINISHES.
  - ALL DISTURBED AREAS, WALLS, PARTITIONS, FLOORS, ETC. DAMAGED BY DEMOLITION WORK SHALL BE PATCHED TO MATCH ADJACENT AREA.
  - OWNER RESERVES THE RIGHT OF FIRST REFUSAL OF ALL SALVAGED ITEMS SUCH AS: DOORS, LIGHT FIXTURES, PLUMBING FIXTURES, ETC.
  - SALVAGED ITEMS SCHEDULED FOR REUSE SHALL BE CLEANED, RESTORED AND/OR REFINISHED TO THE NEW CONDITION UNLESS NOTED OTHERWISE.
  - DO NOT REMOVE ANY EXISTING STRUCTURAL SUPPORT MEMBERS SUCH AS COLUMNS, BEAMS, JOISTS, LOAD-BEARING PARTITIONS, ETC. UNTIL ADEQUATE PERMANENT OR TEMPORARY SUPPORT IS IN PLACE. ALL EXISTING STRUCTURAL MEMBERS SHALL BE ADEQUATELY PROTECTED. COORDINATE WITH STRUCTURAL ENGINEER.
  - SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR RELATED DEMOLITION AND PREP WORK.
  - WALL AND CEILING MOUNTED ITEMS SHOWN DASHED, SUCH AS WALL CABINETS, SHELVING, CUBICLE CURTAIN TRACKS, PROJECTION SCREENS, ETC., SHALL BE REMOVED, UNLESS NOTED OTHERWISE.
  - WITHIN ALL EXISTING ROOMS/SPACES RECEIVING SCHEDULED FLOOR, OR WALL, OR CEILING FINISHES, REMOVE ALL EXISTING FLOOR, OR WALL, OR CEILING FINISHES DOWN TO THE SUBSTRATE. INCLUDE THE REMOVAL OF ALL ITEMS LOCATED WITHIN THE EXISTING FINISH REMOVALS UNDO PATCH AND PREP ALL SUBSTRATES TO RECEIVE SCHEDULED FINISHES. FOR ADDITIONAL INFORMATION, SEE KEYNOTED ITEMS, FINISH PLANS AND/OR SCHEDULES, STRUCTURAL, MECHANICAL AND ELECTRICAL.

- ### DEMOLITION PLAN KEYED NOTES
- DE1 REMOVE CEILING IN ITS ENTIRETY, INCLUDING ALL MECHANICAL AND ELECTRICAL ITEMS. - SEE MECHANICAL/ELECTRICAL.
  - DE2 REMOVE BASE CABINETS, COUNTERTOP, UPPER CABINETS, TALL CABINETS AND/OR SHELVING.
  - DE3 REMOVE PLUMBING FIXTURES AND ACCESSORIES.
  - DE4 SAW CUT AND REMOVE PORTION OF EXISTING CONCRETE PAN AND JOIST STRUCTURAL FLOOR - SEE STRUCTURAL.
  - DE5 SAW CUT OPENING IN CONCRETE AND/OR MASONRY WALL AS REQUIRED. SEE FLOOR PLAN AND STRUCTURAL FOR ADDITIONAL INFORMATION.
  - DE6 REMOVE DECORATIVE STONE BAND, SAW CUT AS REQUIRED FOR REMOVAL. COORDINATE REMOVAL AND INFILL WITH PLANS AND STRUCTURAL AS REQUIRED. SEE DETAIL 3 / ADS20.
  - DE7 REMOVE PORTION OF CEILING IN THIS AREA AS REQUIRED. SEE PLANS FOR ADDITIONAL INFORMATION.
  - DE8 REMOVE ALUMINUM WINDOW SYSTEM, ALL ASSOCIATED HARDWARE, WINDOW SILL AND TRIM AT INTERIOR AND WINDOW BLINDS. SEE PLAN FOR ADDITIONAL INFORMATION.
  - DE9 SAW CUT AND REMOVE PORTION OF STONE BAND AT BUTTRESS AS REQUIRED. COORDINATE WITH PLANS AND STRUCTURAL AS REQUIRED.
  - DE10 REMOVE PORTION OF METAL PAN AND CONCRETE STAIRS AND METAL HANDRAIL AND/OR RAILINGS. SEE PLAN FOR ADDITIONAL INFORMATION.
  - DE11 REMOVE METAL LOUVER AND ALL ASSOCIATED HARDWARE. SEE MECHANICAL FOR ADDITIONAL INFORMATION.
  - DE12 REMOVE PORTION OF MULTI STORY CURTAIN WALL. SEE PLANS FOR ADDITIONAL INFORMATION.
  - DE13 REMOVE MECHANICAL BUILDING IN ITS ENTIRETY.
  - DE14 REMOVE EXISTING DOOR AND DOOR FRAME AND ALL ASSOCIATED HARDWARE.
  - DE15 REMOVE AND SALVAGE BRICK FOR REUSE. AS REQUIRED FOR WORK IN THIS AREA. SEE PLAN FOR ADDITIONAL INFORMATION.
  - DE16 REMOVE BRICK AND CONCRETE BLOCK BASE AND EPIS AT STEEL COLUMN TO UNDERSIDE OF STRUCTURE ABOVE. STEEL COLUMN AND CONCRETE PIER TO REMAIN, PROTECT DURING CONSTRUCTION. SEE PLANS AND STRUCTURAL FOR ADDITIONAL INFORMATION.
  - DE17 REMOVE EPIS SOFFIT IN ITS ENTIRETY INCLUDING ALL MECHANICAL AND ELECTRICAL ITEMS. SEE PLANS FOR ADDITIONAL INFORMATION.
  - DE18 REMOVE EXISTING CONCRETE RETAINING WALL AND GUARDRAIL. SEE CIVIL AND STRUCTURAL FOR ADDITIONAL INFORMATION.
  - DE19 REMOVE FLOOR FINISH IN ITS ENTIRETY. PATCH & PREP FLOOR FOR SCHEDULED.
  - DE20 REMOVE HOLLOW METAL DOOR(S) AND ALL ASSOCIATED HARDWARE. FRAME TO REMAIN.
  - DE21 SAW CUT AND REMOVE CAST IN PLACE CONCRETE STAIRS, METAL RAILINGS, FOOTINGS, STOOP AND SIDEWALK, SEE CIVIL AND STRUCTURAL FOR ADDITIONAL INFORMATION.
  - DE22 REMOVE STOOP IN ITS ENTIRETY AND / OR SIDEWALK. SEE CIVIL FOR ADDITIONAL INFORMATION.
  - DE23 SAW CUT AND REMOVE CAST IN PLACE CONCRETE WALLS BELOW GRADE. SEE MECHANICAL AND CIVIL FOR ADDITIONAL INFORMATION.
  - DE24 REMOVE CERAMIC TILE ON ALL PARTITIONS AND FLOOR.
  - DE25 REMOVE VCT FLOORING. SEE ABATEMENT DRAWINGS FOR ADDITIONAL INFORMATION.
  - DE26 REMOVE CARPET OVER VCT FLOORING. SEE ABATEMENT DRAWINGS FOR ADDITIONAL INFORMATION.
- NOTE: NOT ALL KEYED NOTES MAY BE USED ON EACH PLAN



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



Revisions:	Date:

CONSULTANT

**IMEG**

ARCHITECT/ENGINEER OF RECORD

**ANDERSON**

13605 1st Ave. N. #100 Plymouth, MN 55441  
P 763.412.4000 | F 763.412.4090 | ae-mm.com  
Anderson Engineering of Minnesota, LLC | Proj # 16584

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DATE: 08/04/2022  
License # 9335

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title

GROUND LEVEL DEMOLITION PLAN

Approved:

Phase

BID DOCUMENTS

FULLY SPRINKLERED

Project Title

CONSTRUCT NEW SPS

Location

Sioux Falls, SD.

Issue Date

08/04/2022

Checked

Checker

Drawn

Author

Project Number

438-460

Building Number

5

Drawing Number

AD101



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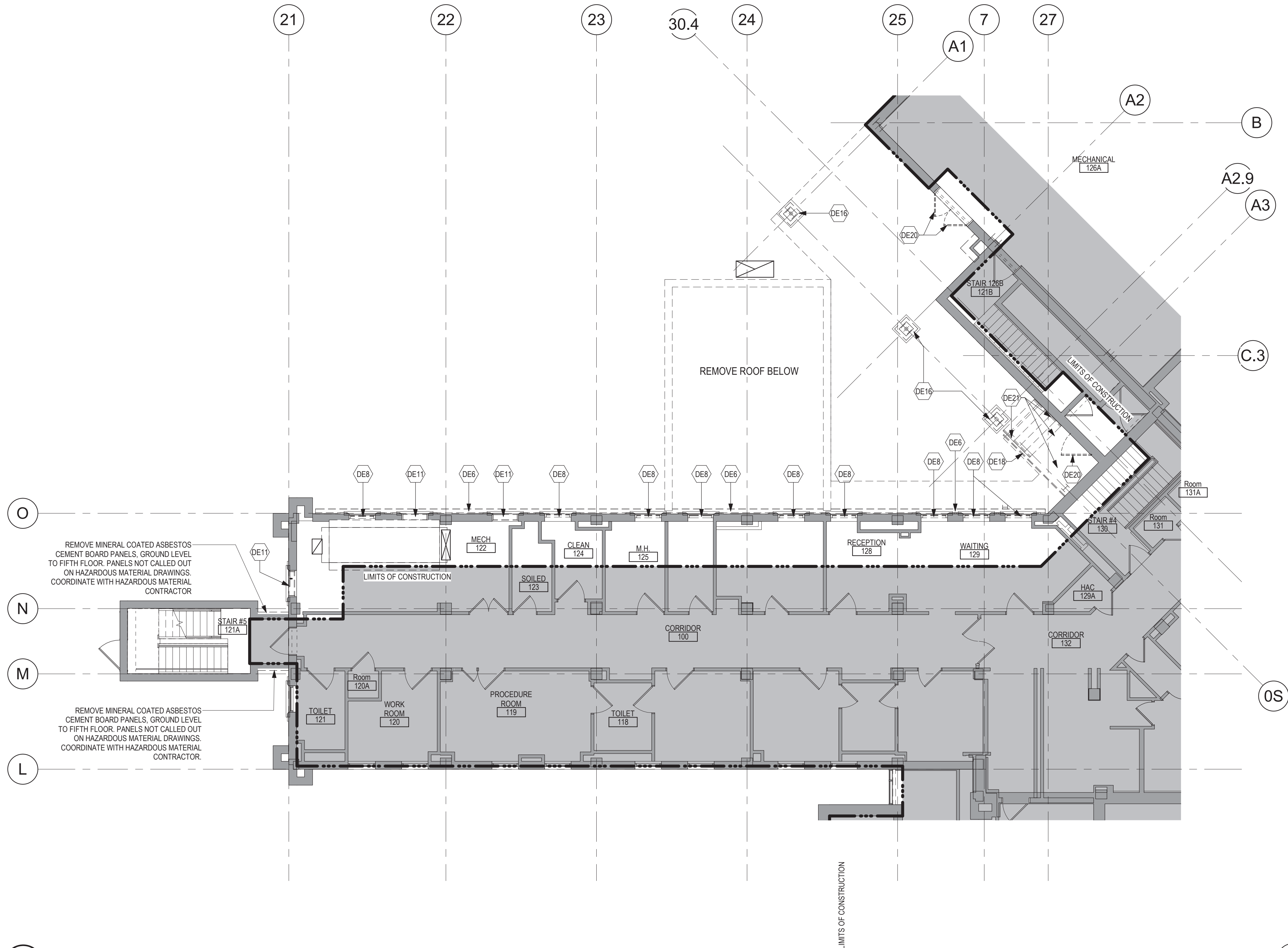
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NOTE:  
COORDINATE GENERAL DEMOLITION WORK WITH ABATEMENT AND REMEDIATION WORK



1 FIRST LEVEL DEMOLITION PLAN  
1/8" = 1'-0"

DEMOLITION PLAN SYMBOLS

	EXISTING WALL TO REMAIN		EXISTING DOOR AND FRAME TO REMAIN
	WALL OR PARTITION TO BE REMOVED		EXISTING DOOR AND FRAME TO BE DEMOLISHED
	DASHED LINE INDICATES ITEM TO BE REMOVED (JND)		KEY NOTE
	GRIDLINE		

NOTE: NOT ALL SYMBOLS MAY BE USED ON EACH PLAN

DEMOLITION GENERAL NOTES

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DEMOLITION PLAN KEYED NOTES

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- NOTE: NOT ALL KEYED NOTES MAY BE USED ON EACH PLAN

Revisions:	Date:

CONSULTANT

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

DATE: 08/04/2022  
License # 9335

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title  
INTERSTITIAL/FIRST LEVEL DEMOLITION PLAN

Approved:

Phase  
BID DOCUMENTS

FULLY SPRINKLERED

Project Title  
CONSTRUCT NEW SPS

Location  
Sioux Falls, SD.

Issue Date  
08/04/2022

Checked  
X

Drawn  
X

Project Number  
438-460

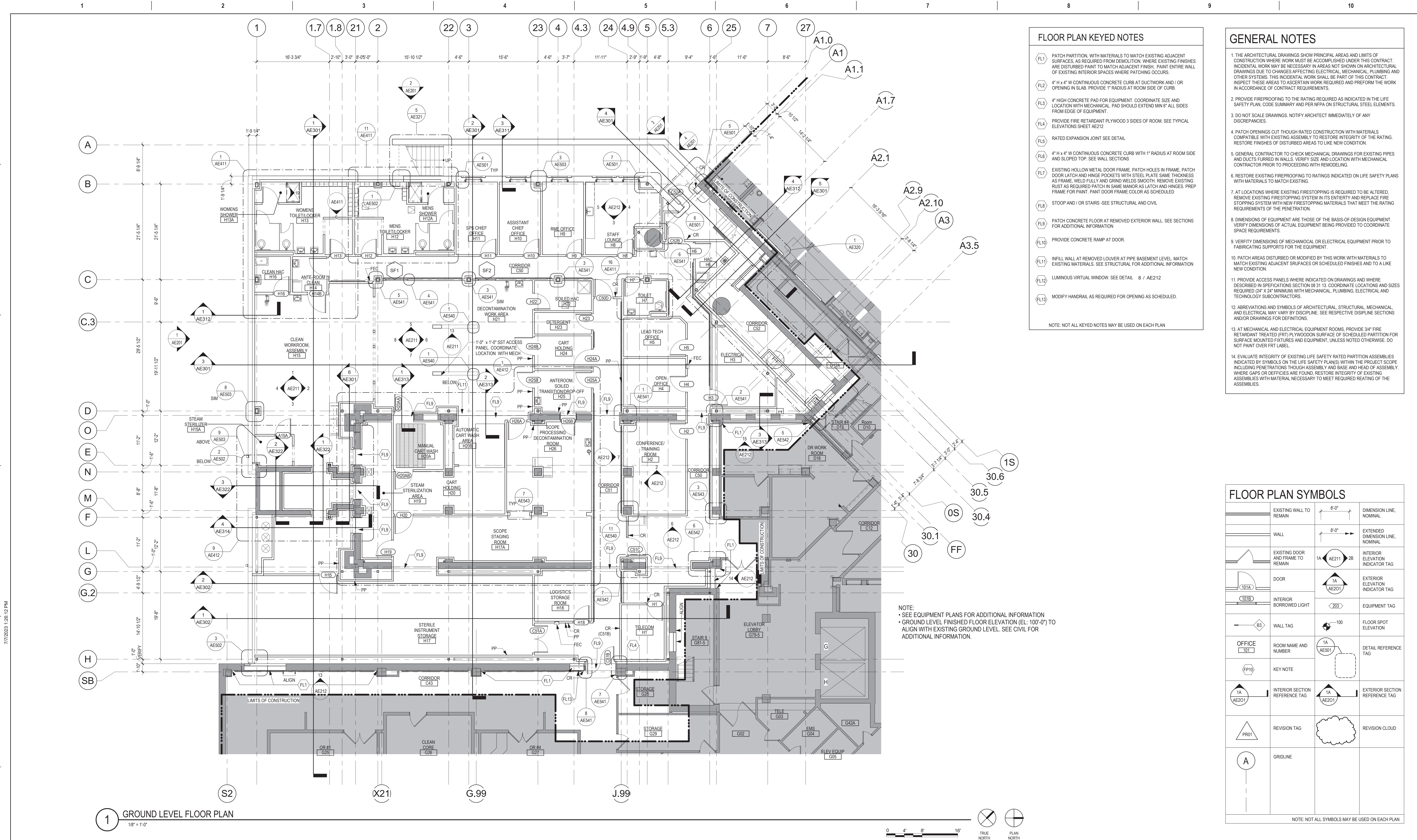
Building Number  
5

Drawing Number  
AD111









- FLOOR PLAN KEYED NOTES**
- FL1 PATCH PARTITION, WITH MATERIALS TO MATCH EXISTING ADJACENT SURFACES, AS REQUIRED FROM DEMOLITION. WHERE EXISTING FINISHES ARE DISTURBED PAINT TO MATCH ADJACENT FINISH. PAINT ENTIRE WALL OF EXISTING INTERIOR SPACES WHERE PATCHING OCCURS.
  - FL2 4" H x 4" W CONTINUOUS CONCRETE CURB AT DUCTWORK AND / OR OPENING IN SLAB. PROVIDE 1" RADIUS AT ROOM SIDE OF CURB.
  - FL3 4" HIGH CONCRETE PAD FOR EQUIPMENT. COORDINATE SIZE AND LOCATION WITH MECHANICAL. PAD SHOULD EXTEND MIN 6" ALL SIDES FROM EDGE OF EQUIPMENT.
  - FL4 PROVIDE FIRE RETARDANT PLYWOOD 3 SIDES OF ROOM. SEE TYPICAL ELEVATIONS SHEET AE212
  - FL5 RATED EXPANSION JOINT SEE DETAIL
  - FL6 4" H x 4" W CONTINUOUS CONCRETE CURB WITH 1" RADIUS AT ROOM SIDE AND SLOPED TOP. SEE WALL SECTIONS
  - FL7 EXISTING HOLLOW METAL DOOR FRAME. PATCH HOLES IN FRAME. PATCH DOOR LATCH AND HINGE POCKETS WITH STEEL PLATE SAME THICKNESS AS FRAME. WELD FULLY AND GRIND WELDS SMOOTH. REMOVE EXISTING RUST AS REQUIRED PATCH IN SAME MANNER AS LATCH AND HINGES. PREP FRAME FOR PAINT. PAINT DOOR FRAME COLOR AS SCHEDULED
  - FL8 STOOP AND / OR STAIRS - SEE STRUCTURAL AND CIVIL
  - FL9 PATCH CONCRETE FLOOR AT REMOVED EXTERIOR WALL. SEE SECTIONS FOR ADDITIONAL INFORMATION
  - FL10 PROVIDE CONCRETE RAMP AT DOOR
  - FL11 INFILL WALL AT REMOVED LOUVER AT PIPE BASEMENT LEVEL. MATCH EXISTING MATERIALS. SEE STRUCTURAL FOR ADDITIONAL INFORMATION
  - FL12 LUMINOUS VIRTUAL WINDOW. SEE DETAIL 8 / AE212
  - FL13 MODIFY HANDRAIL AS REQUIRED FOR OPENING AS SCHEDULED.
- NOTE: NOT ALL KEYED NOTES MAY BE USED ON EACH PLAN

- GENERAL NOTES**
1. THE ARCHITECTURAL DRAWINGS SHOW PRINCIPAL AREAS AND LIMITS OF CONSTRUCTION WHERE WORK MUST BE ACCOMPLISHED UNDER THIS CONTRACT. INCIDENTAL WORK MAY BE NECESSARY IN AREAS NOT SHOWN ON ARCHITECTURAL DRAWINGS DUE TO CHANGES AFFECTING ELECTRICAL, MECHANICAL, PLUMBING AND OTHER SYSTEMS. THIS INCIDENTAL WORK SHALL BE PART OF THIS CONTRACT. INSPECT THESE AREAS TO ASCERTAIN WORK REQUIRED AND PREFORM THE WORK IN ACCORDANCE OF CONTRACT REQUIREMENTS.
  2. PROVIDE FIREPROOFING TO THE RATING REQUIRED AS INDICATED IN THE LIFE SAFETY PLAN. CODE SUMMARY AND PER NFPA ON STRUCTURAL STEEL ELEMENTS.
  3. DO NOT SCALE DRAWINGS. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES.
  4. PATCH OPENINGS CUT THROUGH RATED CONSTRUCTION WITH MATERIALS COMPATIBLE WITH EXISTING ASSEMBLY TO RESTORE INTEGRITY OF THE RATING. RESTORE FINISHES OF DISTURBED AREAS TO LIKE NEW CONDITION.
  5. GENERAL CONTRACTOR TO CHECK MECHANICAL DRAWINGS FOR EXISTING PIPES AND DUCTS FURRED IN WALLS. VERIFY SIZE AND LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO PROCEEDING WITH REMODELING.
  6. RESTORE EXISTING FIREPROOFING TO RATINGS INDICATED ON LIFE SAFETY PLANS WITH MATERIALS TO MATCH EXISTING.
  7. AT LOCATIONS WHERE EXISTING FIRESTOPPING IS REQUIRED TO BE ALTERED, REMOVE EXISTING FIRESTOPPING SYSTEM IN ITS ENTIRETY AND REPLACE FIRE STOPPING SYSTEM WITH NEW FIRESTOPPING MATERIALS THAT MEET THE RATING REQUIREMENTS OF THE PENETRATION.
  8. DIMENSIONS OF EQUIPMENT ARE THOSE OF THE BASIS-OF-DESIGN EQUIPMENT. VERIFY DIMENSIONS OF ACTUAL EQUIPMENT BEING PROVIDED TO COORDINATE SPACE REQUIREMENTS.
  9. VERIFY DIMENSIONS OF MECHANICAL OR ELECTRICAL EQUIPMENT PRIOR TO FABRICATING SUPPORTS FOR THE EQUIPMENT.
  10. PATCH AREAS DISTURBED OR MODIFIED BY THIS WORK WITH MATERIALS TO MATCH EXISTING ADJACENT SURFACES OR SCHEDULED FINISHES AND TO A LIKE NEW CONDITION.
  11. PROVIDE ACCESS PANELS WHERE INDICATED ON DRAWINGS AND WHERE DESCRIBED IN SPECIFICATIONS SECTION 08 31 13. COORDINATE LOCATIONS AND SIZES REQUIRED (24" X 24" MINIMUM WITH MECHANICAL, PLUMBING, ELECTRICAL AND TECHNOLOGY SUBCONTRACTORS).
  12. ABBREVIATIONS AND SYMBOLS OF ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL MAY VARY BY DISCIPLINE. SEE RESPECTIVE DISCIPLINE SECTIONS AND/OR DRAWINGS FOR DEFINITIONS.
  13. AT MECHANICAL AND ELECTRICAL EQUIPMENT ROOMS, PROVIDE 3/4" FIRE RETARDANT TREATED (FRT) PLYWOOD SURFACE OF SCHEDULED PARTITION FOR SURFACE MOUNTED FIXTURES AND EQUIPMENT, UNLESS NOTED OTHERWISE. DO NOT PAINT OVER FRT LABEL.
  14. EVALUATE INTEGRITY OF EXISTING LIFE SAFETY RATED PARTITION ASSEMBLIES INDICATED BY SYMBOLS ON THE LIFE SAFETY PLAN(S) WITHIN THE PROJECT SCOPE INCLUDING PENETRATIONS THROUGH ASSEMBLY AND BASE AND HEAD OF ASSEMBLY. WHERE GAPS OR DEFICIENCIES ARE FOUND, RESTORE INTEGRITY OF EXISTING ASSEMBLIES WITH MATERIAL NECESSARY TO MEET REQUIRED RATING OF THE ASSEMBLIES.

FLOOR PLAN SYMBOLS			
	EXISTING WALL TO REMAIN	8'-0"	DIMENSION LINE, NOMINAL
	WALL	8'-0"	EXTENDED DIMENSION LINE, NOMINAL
	EXISTING DOOR AND FRAME TO REMAIN	1A AE211	INTERIOR ELEVATION INDICATOR TAG
	DOOR	1A AE201	EXTERIOR ELEVATION INDICATOR TAG
	INTERIOR BORROWED LIGHT	203	EQUIPMENT TAG
	WALL TAG	100	FLOOR SPOT ELEVATION
	OFFICE 101	1A AE501	DETAIL REFERENCE TAG
	KEY NOTE	FP10	
	INTERIOR SECTION REFERENCE TAG	1A AE201	EXTERIOR SECTION REFERENCE TAG
	REVISION TAG	PR01	REVISION CLOUD
	GRIDLINE	A	
NOTE: NOT ALL SYMBOLS MAY BE USED ON EACH PLAN			

Revisions:


Date:

CONSULTANT

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

DATE: 08/04/2022  
License # 9335

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title

GROUND LEVEL FLOOR PLAN

Approved:

Phase

BID DOCUMENTS

FULLY SPRINKLERED

Project Title

CONSTRUCT NEW SPS

Location  
Sioux Falls, SD.

Issue Date  
08/04/2022

Checked  
Checker

Drawn  
GB/BW

Project Number  
438-460

Building Number  
5

Drawing Number  
AE101

VA FORM 08 - 6231

1

2

3

4

5

6

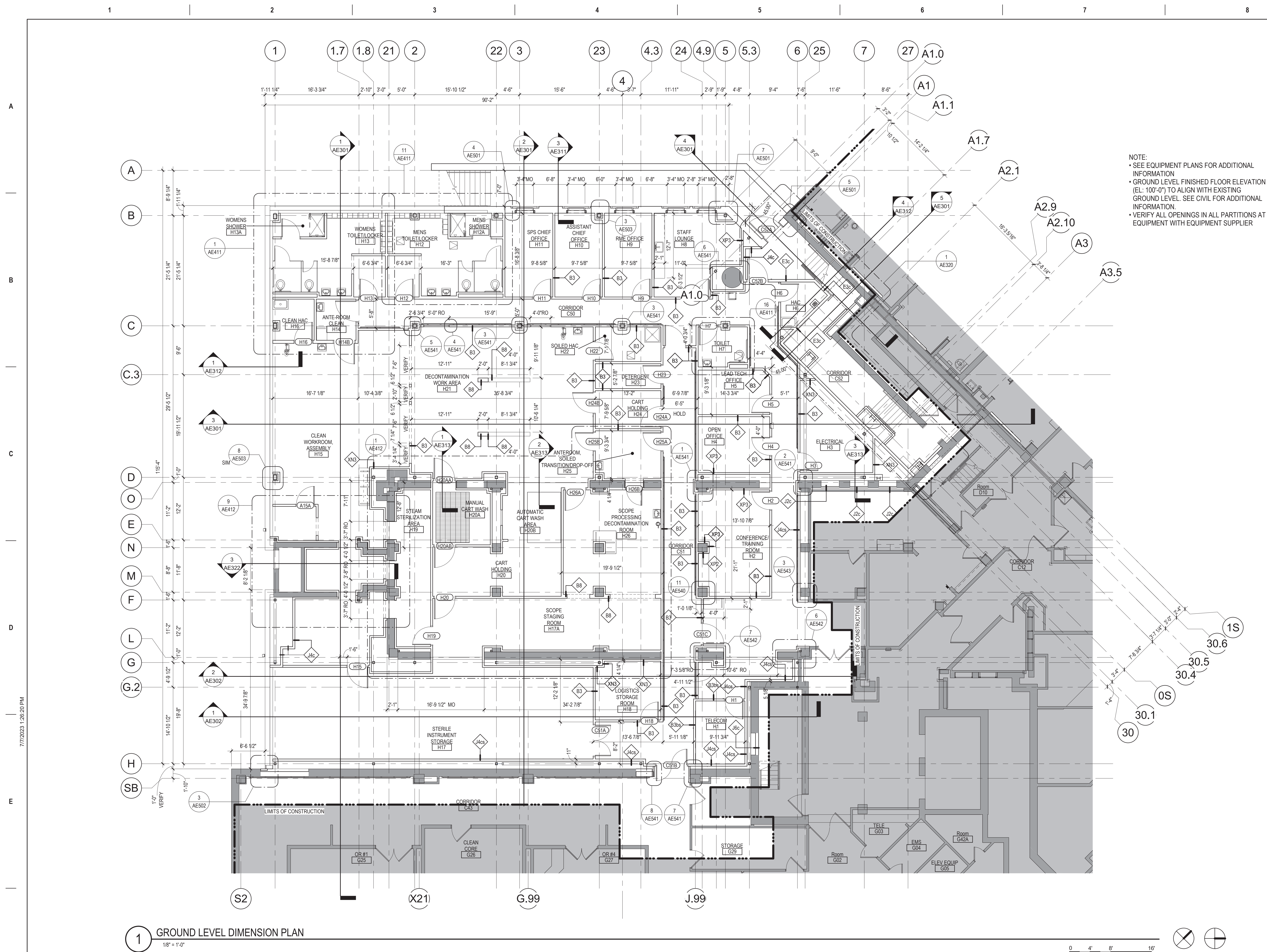
7

8

9

10





## GENERAL NOTES

1. THE ARCHITECTURAL DRAWINGS SHOW PRINCIPAL AREAS AND LIMITS OF CONSTRUCTION WHERE WORK MUST BE ACCOMPLISHED UNDER THIS CONTRACT. INCIDENTAL WORK MAY BE NECESSARY IN AREAS NOT SHOWN ON ARCHITECTURAL DRAWINGS TO MAKE CHANGES AFFECTING ELECTRICAL, MECHANICAL, PLUMBING AND OTHER SYSTEMS. THIS INCIDENTAL WORK SHALL BE PART OF THIS CONTRACT. INSPECT THESE AREAS TO ASCERTAIN WORK REQUIRED AND PREFORM THE WORK IN ACCORDANCE OF CONTRACT REQUIREMENTS.
2. PROVIDE FIREPROOFING TO THE RATING REQUIRED AS INDICATED IN THE LIFE SAFETY PLAN, CODE SUMMARY AND NFPA ON STRUCTURAL STEEL ELEMENTS.
3. DO NOT SCALE DRAWINGS. NOTIFY ARCHITECT IMMEDIATELY IF ANY DISCREPANCIES.
4. PATCH OPENINGS CUT THOUGH RATED CONSTRUCTION WITH MATERIALS COMPATIBLE WITH EXISTING ASSEMBLY TO RESTORE INTEGRITY OF THE RATING. RESTORE TO THE RATING OF THE UNPUNCTURED AREA IN NEW CONDITION.
5. GENERAL CONTRACTOR TO CHECK MECHANICAL DRAWINGS FOR EXISTING PIPES AND DUCTS FURRED IN WALL. VERIFY SIZE AND LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO PROCEEDING WITH REMODELING.
6. RESTORE EXISTING FIREPROOFING TO RATINGS INDICATED ON LIFE SAFETY PLANS WITH MATERIALS TO MATCH EXISTING.
7. AT LOCATIONS WHERE EXISTING FIRESTOPPING IS REQUIRED TO BE ALTERED, REMOVE EXISTING FIRESTOPPING SYSTEM IN ITS ENTIRETY AND REPLACE FIRE STOPPING SYSTEM WITH NEW FIRESTOPPING MATERIALS THAT MEET THE RATING REQUIREMENTS OF THE PENETRATION.
8. DIMENSIONS OF EQUIPMENT ARE THOSE OF THE BASIS-OF-DESIGN EQUIPMENT. VERIFY THE DIMENSIONS OF ACTUAL EQUIPMENT BEFORE PROVIDED TO COORDINATE SPACE REQUIREMENTS.
9. VERIFY DIMENSIONS OF MECHANICAL OR ELECTRICAL EQUIPMENT PRIOR TO FABRICATING SUPPORTS FOR THE EQUIPMENT.
10. PATCH AREAS DISTURBED OR MODIFIED BY THIS WORK WITH MATERIALS TO MATCH EXISTING ADJACENT SURFACES OR SCHEDULED FINISHES AND TO A LIKE NEW CONDITION.
11. PROVIDE ACCESS PLANS WHERE INDICATED ON DRAWINGS AND WHERE DESCRIBED IN SPECIFICATIONS SECTIONS 08131. COORDINATE LOCATIONS AND SIZES REQUIRED (24" X 36" MINIMUM) WITH MECHANICAL, PLUMBING, ELECTRICAL AND TECHNOLOGY SUBCONTRACTORS.
12. ABBREVIATIONS AND SYMBOLS OF ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS SHALL BE USED. RESPECTIVE DISCIPLINE SECTION AND/or DRAWINGS FOR DEFINITIONS.
13. AT MECHANICAL AND ELECTRICAL EQUIPMENT ROOMS, PROVIDE 3/4" FIRE RETARDANT TREATED (FRT) PLYWOOD SURFACE OF SCHEDULED PARTITION DRAWING FOR SPACE MOUNTED FITTINGS AND EQUIPMENT, UNLESS NOTED OTHERWISE. DO NOT PAINT OVER FRT LABEL.
14. EVALUATE INTEGRITY OF EXISTING LIFE SAFETY RATED PARTITION ASSEMBLIES AND PROVIDE REPAIRS TO THE LIFE SAFETY PLANS) WITH THE PROJECT SCOPE INCLUDING PENETRATIONS THOUGH ASSEMBLY AND BASE AND HEAD OF ASSEMBLY WHERE GAPS OR DEFICIENCIES ARE FOUND. RESTORE INTEGRITY OF EXISTING ASSEMBLY WITH MATERIAL NECESSARY TO MEET REQUIRED RATING OF THE ASSEMBLY.

## FLOOR PLAN SYMBOLS

	EXISTING WALL TO REMAIN		DIMENSION LINE, NOMINAL
	WALL		EXTENDED DIMENSION LINE, NOMINAL
	EXISTING DOOR AND FRAME TO REMAIN		INTERIOR ELEVATION INDICATOR TAG
	DOOR		EXTERIOR ELEVATION INDICATOR TAG
	INTERIOR BORROWED LIGHT		EQUIPMENT TAG
	WALL TAG		FLOOR SPOT ELEVATION
	ROOM NAME AND NUMBER		DETAIL REFERENCE TAG
	KEY NOTE		INTERIOR SECTION REFERENCE TAG
	REVISION TAG		EXTERIOR SECTION REFERENCE TAG
	GRIDLINE		REVISION CLOUD

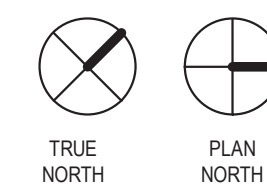
NOTE: NOT ALL SYMBOLS MAY BE USED ON EACH PLAN


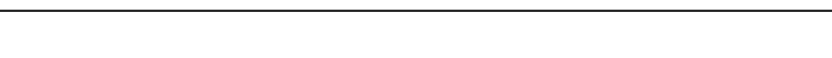

NOTE: NOT ALL SYMBOLS MAY BE USED ON EACH PLAN

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

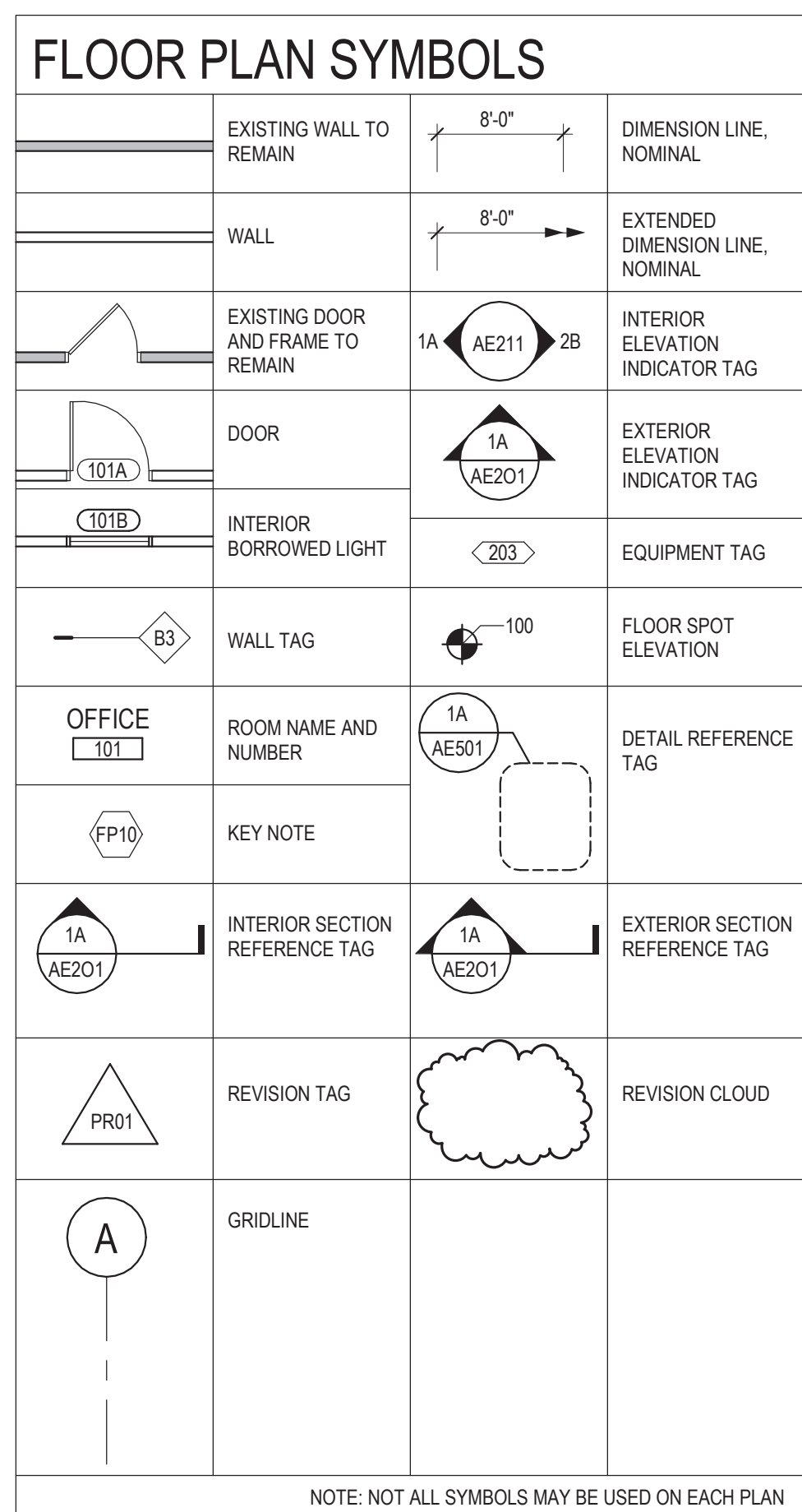
 $1/8" = 1'-0"$ 

A horizontal scale bar with tick marks at 0, 4', 8', and 16 feet.

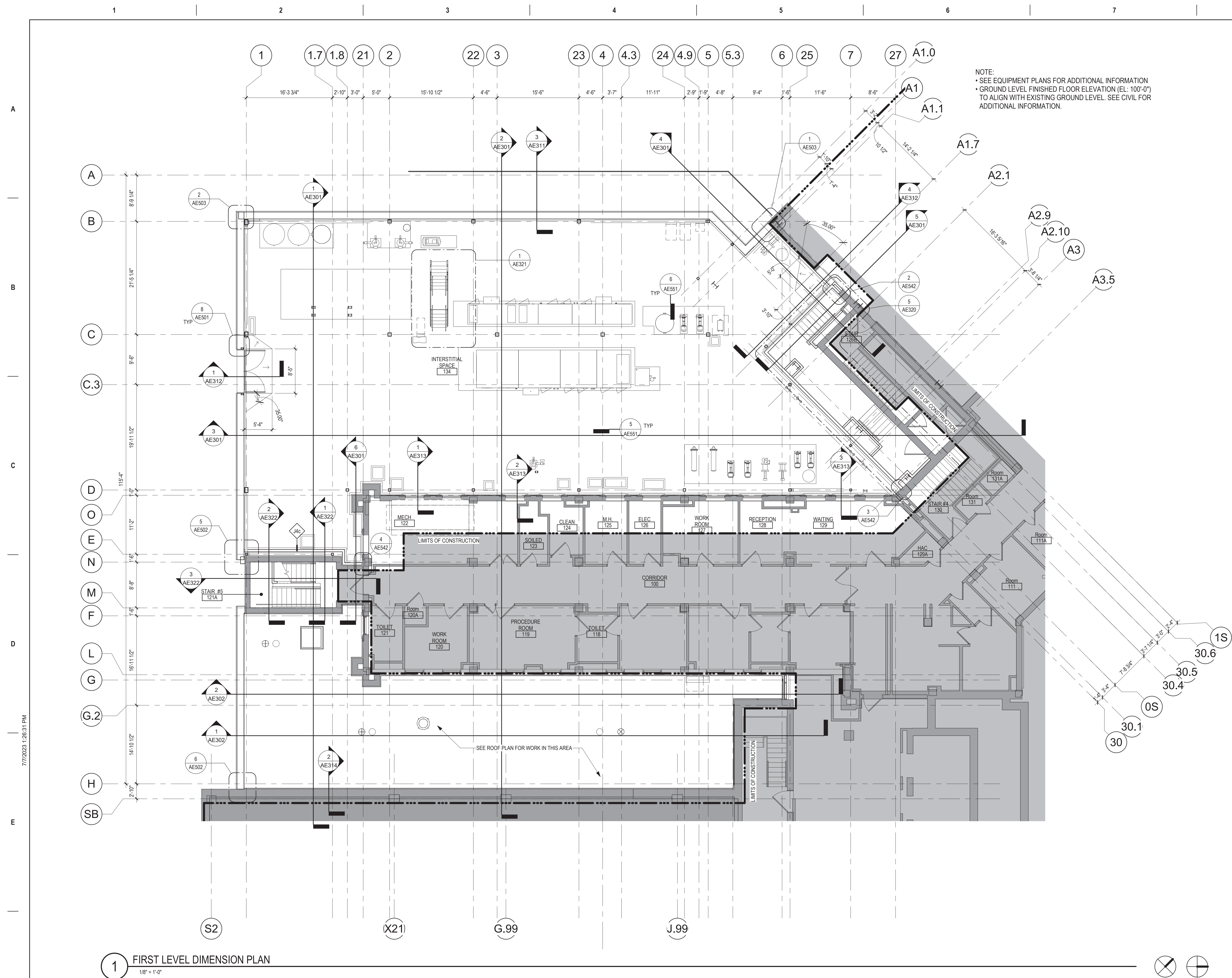


		CONSULTANT		ARCHITECT/ENGINEER OF RECORD		STAMP		Office of Construction and Facilities Management		Drawing Title GROUND LEVEL DIMENSION PLAN		Phase BID DOCUMENTS		Project Title CONSTRUCT NEW SPS		Project Number 438-460	
														Location Sioux Falls, SD.		Building Number 5	
				13605 1st Ave. N. #100 Plymouth, MN 55441 P 763.412.4000   F 763.412.4090   <a href="mailto:ae-mn.com">ae-mn.com</a> Anderson Engineering of Minnesota, LLC   <a href="#">Proj # 16584</a>		DATE: 08/04/2022 License #: 9335		VA U.S. Department of Veterans Affairs.		Approved:		FULLY SPRINKLERED		Issue Date 08/04/2022		Checked Checker	
Revisions:		Date:												Drawn Author		Drawing Number AE102	









NOTE:

- SEE EQUIPMENT PLANS FOR ADDITIONAL INFORMATION
- GROUND LEVEL FINISHED FLOOR ELEVATION (EL: 100'-0") TO ALIGN WITH EXISTING GROUND LEVEL. SEE CIVIL FOR ADDITIONAL INFORMATION

## GENERAL NOTES

1. THE ARCHITECTURAL DRAWINGS SHOW PRINCIPAL AREAS AND LIMITS OF CONSTRUCTION WHERE WORK MUST BE ACCOMPLISHED UNDER THIS CONTRACT. INCIDENTAL WORK MAY BE NECESSARY IN AREAS NOT SHOWN ON ARCHITECTURAL DRAWINGS TO CHANGES IN ELECTRICAL, MECHANICAL, PLUMBING AND/OR OTHER SYSTEMS. THIS INCIDENTAL WORK SHALL BE PART OF THIS CONTRACT. INSPECT THESE AREAS TO ASCERTAIN WORK REQUIRED AND PREFORM THE WORK IN ACCORDANCE OF CONTRACT REQUIREMENTS.
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3. DO NOT SCALE DRAWINGS. NOTIFY ARCHITECT IMMEDIATELY IF ANY DISCREPANCIES.
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6. RESTORE EXISTING FIREPROOFING TO RATINGS INDICATED ON LIFE SAFETY PLANS WITH MATERIALS TO MATCH EXISTING.
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12. ABBREVIATIONS AND SYMBOLS OF ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND LIFE SAFETY DISCIPLINE. SEE RESPECTIVE DISCIPLINE SECTIONS AND/OR DRAWINGS FOR DEFINITIONS.
13. AT MECHANICAL AND ELECTRICAL EQUIPMENT ROOMS, PROVIDE 3/4" FIRE RETARDANT TREATED (FRT) PLYWOOD SURFACE OF SCHEDULED PARTITION DRAWING FOR SURFACE MOUNTED FITTINGS AND EQUIPMENT, UNLESS NOTED OTHERWISE. DO NOT PAINT OVER FRT LABEL.
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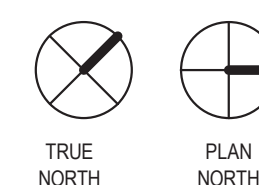
## FLOOR PLAN SYMBOLS

	EXISTING WALL TO REMAIN		DIMENSION LINE, NOMINAL
	WALL		EXTENDED DIMENSION LINE, NOMINAL
	EXISTING DOOR AND FRAME TO REMAIN		INTERIOR ELEVATION INDICATOR TAG
	DOOR		EXTERIOR ELEVATION INDICATOR TAG
	INTERIOR BORROWED LIGHT		EQUIPMENT TAG
	WALL TAG		FLOOR SPOT ELEVATION
	OFFICE		DETAIL REFERENCE TAG
	KEY NOTE		INTERIOR SECTION REFERENCE TAG
	REVISION TAG		REVISION CLOUD
	GRIDLINE		

NOTE: NOT ALL SYMBOLS MAY BE USED ON EACH PLAN

NOTE: NOT ALL SYMBOLS MAY BE USED ON EACH PLAN

1 FIRST LEVEL DIMENSION PLAN

 $1/8" = 1'-0"$ [illegible]

CONSULTANT

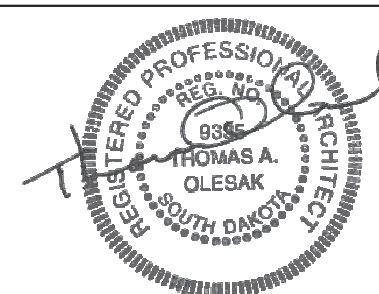


ARCHITECT/ENGINEER OF RECORD



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



DATE: 08/04/2023

Office of  
Construction  
and Facilities  
Management



U.S. Department  
of Veterans  
Affairs

	Drawing Title
--	---------------

INTERSTITIAL/FIRST LEVEL  
DIMENSION PLAN

Approved: \_\_\_\_\_

Phase

BID DOCUMENTS

FULLY SPRINKLERED

	<b>Project Title</b>
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## CONSTRUCT NEW SPS

	Location
	Sioux Falls, SD.

Issue Date	08/04/2022
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Checked
Check

Drawn	
Authc	

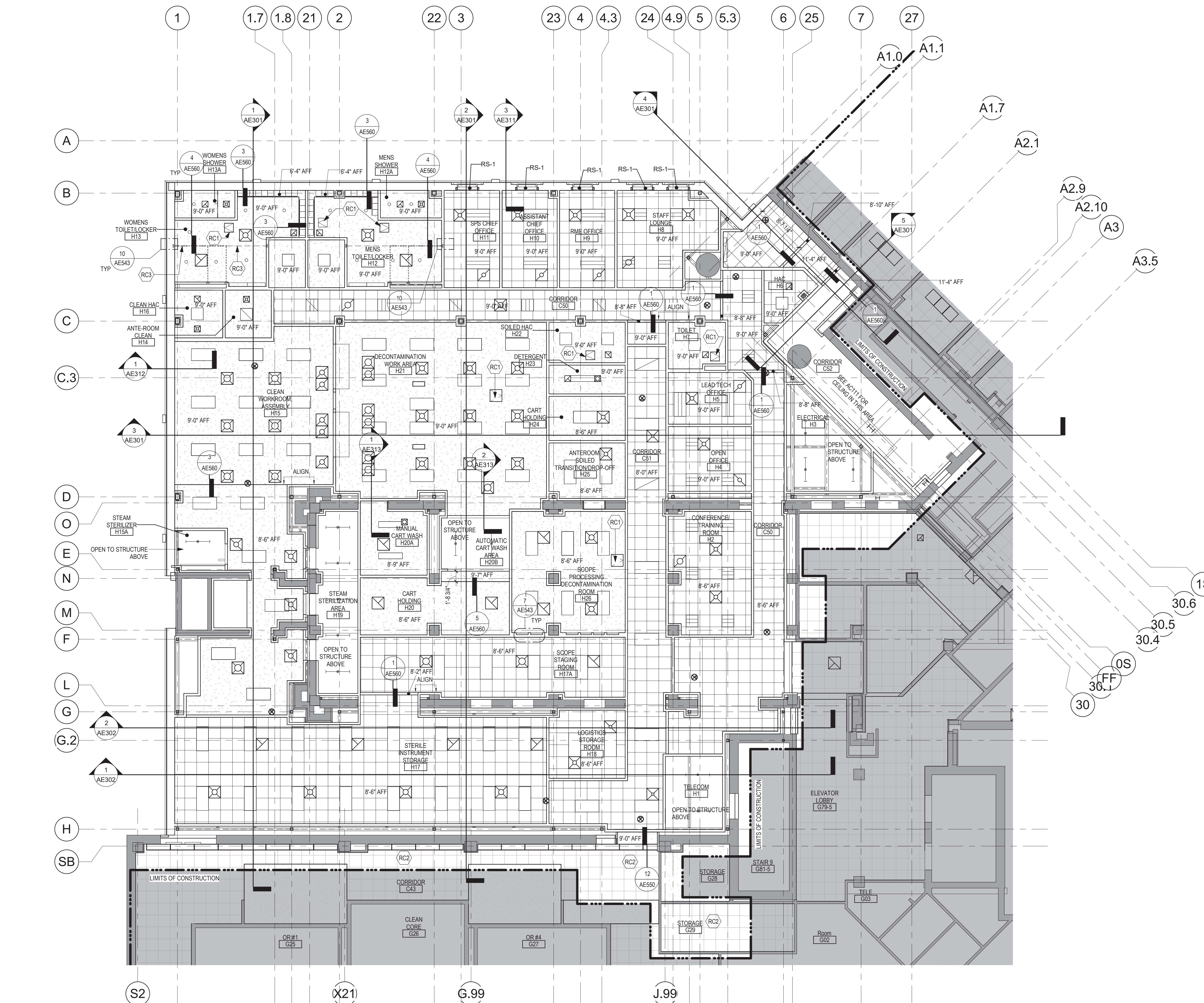
Project Number

438-460

Drawing Number

AE112





**RCP GENERAL NOTES**

1. GENERAL CONTRACTOR TO COORDINATE ALL CEILING MOUNTED EQUIPMENT SUPPORT REQUIREMENTS, LOCATIONS, DIMENSIONS, ETC WITH EQUIPMENT SUPPLIER AND OWNER, PRIOR TO INSTALLATION.
2. ALL CEILING MOUNTED ITEMS SUCH AS LIGHT FIXTURES, GRILLES, DIFFUSERS, SPEAKERS, EXIT LIGHTS, ETC SHALL BE LOCATED IN THE CENTER OF ACT PANELS. GYP BD SOFFITS AND/OR PLASTER SOFFIT BAYS, UNLESS NOTED OTHERWISE, COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS.
3. FINISHED GYP BD SOFFITS SHALL EXTEND 1" BEYOND FACE AND EXPOSED ENDS OF WALL CABINETS, FULL-HEIGHT CABINETS, ETC UNLESS NOTED OTHERWISE. COORDINATE CABINET DIMENSIONS WITH SUPPLIER. GYP BD FASCIA/SOFFIT DETAILS ARE REFERENCED FROM THE REFLECTED CEILING PLAN.
4. SEE MECHANICAL DRAWINGS FOR SPRINKLER HEAD TYPES AND LOCATIONS. CENTER ALL HEADS IN ACT UNLESS NOTED OTHERWISE.
5. AT REMODELING WORK IN EXISTING ACT SUSPENSION SYSTEM, REMOVE EXISTING PANELS, CUT AS REQUIRED FOR CONSTRUCTION AND RE-INSTALL. REPLACE ALL DAMAGED AND / OR EXTREMELY SOILED PANELS WITH ACT TO MATCH EXISTING.

REFLECTED CEILING PLAN SYMBOLS			
	GYP BD CEILING / SOFFIT		2'-0" x 4'-0" LIGHT FIXTURE
	ACT CEILING SYSTEM		2'-0" x 2'-0" LIGHT FIXTURE
	EXISTING ACT CEILING SYSTEM		PENDANT STRIP LIGHT FIXTURE
	IV TRACK		PENDANT STRIP LIGHT FIXTURE
	CUBICLE CURTAIN TRACK		RECESSED LIGHT FIXTURE
	ACCESS PANEL		WALL SCONCE LIGHT FIXTURE
	MECHANICAL SUPPLY GRILL		MECHANICAL LINEAR SUPPLY GRILL
	MECHANICAL RETURN GRILL		CEILING ELEVATION
NOTE: NOT ALL SYMBOLS MAY BE USED ON EACH PLAN			

REFLECTED CEILING KEYED NOTES	
	18" X 18" STAINLESS STEEL ACCESS PANEL. COORDINATE LOCATION WITH MECHANICAL, ELECTRICAL AND PLUMBING AND PER SEPC SECTION 08 31 13
	REMOVE AND REPLACE CEILING, INCLUDING ANY MECHANICAL / ELECTRICAL CEILING MOUNTED ITEMS, IN THIS AREA AS REQUIRED FOR MECHANICAL WORK. REPLACE ANY DIRTY OR DAMAGED ACT OR CEILING GRID. SEE MEP PLANS FOR ADDITIONAL INFORMATION
	STEEL CHANNEL AND STEEL POST. SEE DETAILS
NOTE: NOT ALL KEYED NOTES MAY BE USED ON EACH PLAN	

1 GROUND LEVEL REFLECTED CEILING PLAN  
1/8" = 1'-0"



Revisions:	Date:

CONSULTANT

**IMEG**

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

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title

GROUND LEVEL REFLECTED CEILING PLAN

Approved:

Phase

BID DOCUMENTS

FULLY SPRINKLERED

Project Title

CONSTRUCT NEW SPS

Location

Sioux Falls, SD.

Issue Date

08/04/2022

Checked

Checker

Drawn

Author

Project Number

438-460

Building Number

5

Drawing Number

AC101