

1

SITE LAYOUT PLAN

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

CONSULTANTS

ARCHITECT/ENGINEER OF RECORD

13605 1st Ave. N. #100 Plymouth, MN 55441
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Anderson Engineering of Minnesota, LLC | Proj # 16584

STAMP

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

EDWIN J. V. BRODMARK, PE
DATE: 2025.02.14 LICENSE NO: 55409

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title

SITE LAYOUT 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

02/14/2025

Checked

EB

Drawn

JD

Project Number

438-460

Building Number

5

Drawing Number

CS101

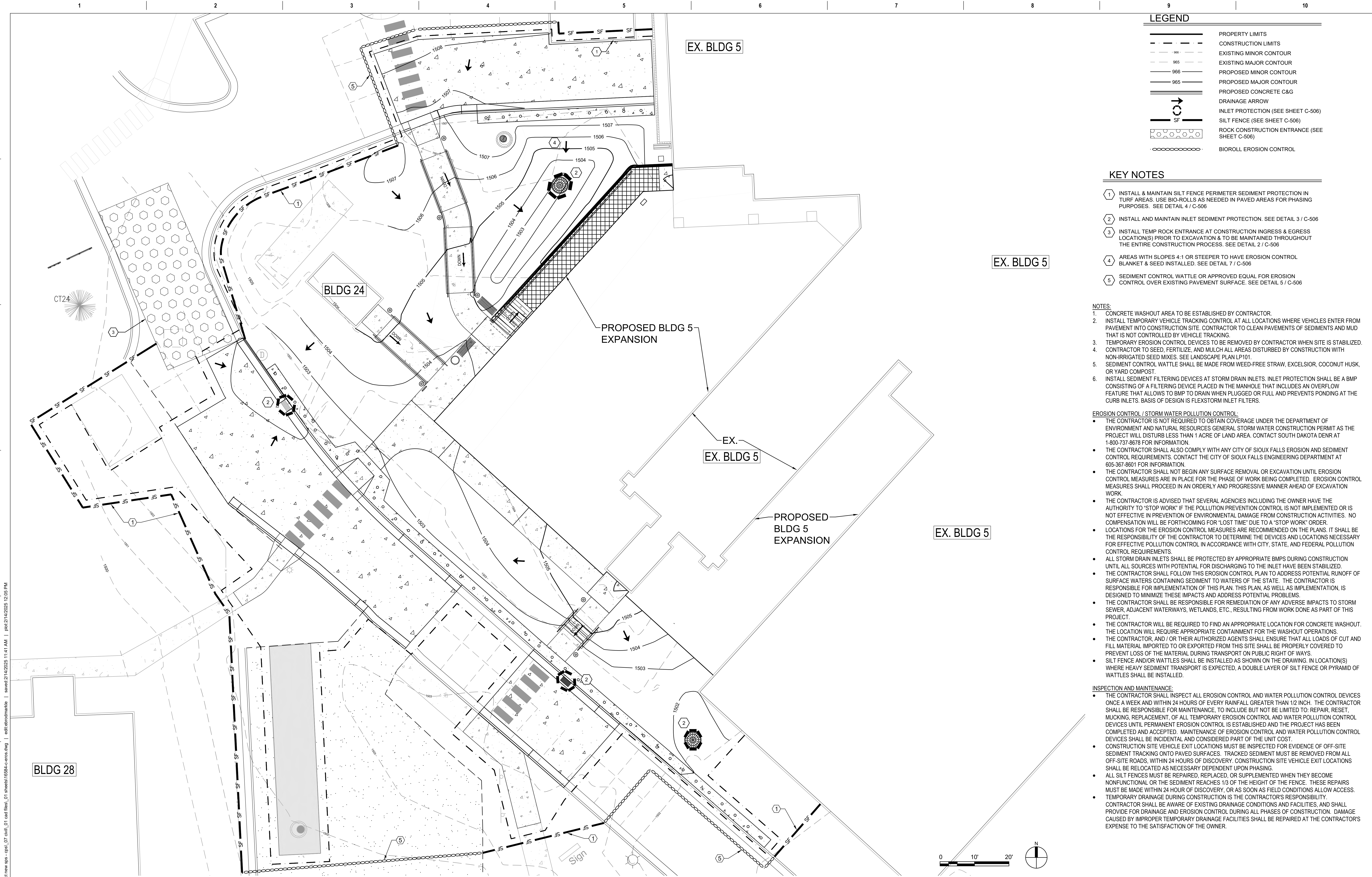
Revisions:

Date:

VA FORM 08 - 6231

VA FORM 08 - 6231

CG101



LEGEND	
	PROPERTY LIMITS
	CONSTRUCTION LIMITS
	EXISTING MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED CONCRETE C&G
	DRAINAGE ARROW
	INLET PROTECTION (SEE SHEET C-506)
	SILT FENCE (SEE SHEET C-506)
	ROCK CONSTRUCTION ENTRANCE (SEE SHEET C-506)
	BIOROLL EROSION CONTROL

- KEY NOTES**
1. INSTALL & MAINTAIN SILT FENCE PERIMETER SEDIMENT PROTECTION IN TURF AREAS. USE BIO-ROLLS AS NEEDED IN PAVED AREAS FOR PHASING PURPOSES. SEE DETAIL 4 / C-506
 2. INSTALL AND MAINTAIN INLET SEDIMENT PROTECTION. SEE DETAIL 3 / C-506
 3. INSTALL TEMP ROCK ENTRANCE AT CONSTRUCTION INGRESS & EGRESS LOCATION(S) PRIOR TO EXCAVATION & TO BE MAINTAINED THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS. SEE DETAIL 2 / C-506
 4. AREAS WITH SLOPES 4:1 OR STEEPER TO HAVE EROSION CONTROL BLANKET & SEED INSTALLED. SEE DETAIL 7 / C-506
 5. SEDIMENT CONTROL WATTLE OR APPROVED EQUAL FOR EROSION CONTROL OVER EXISTING PAVEMENT SURFACE. SEE DETAIL 5 / C-506

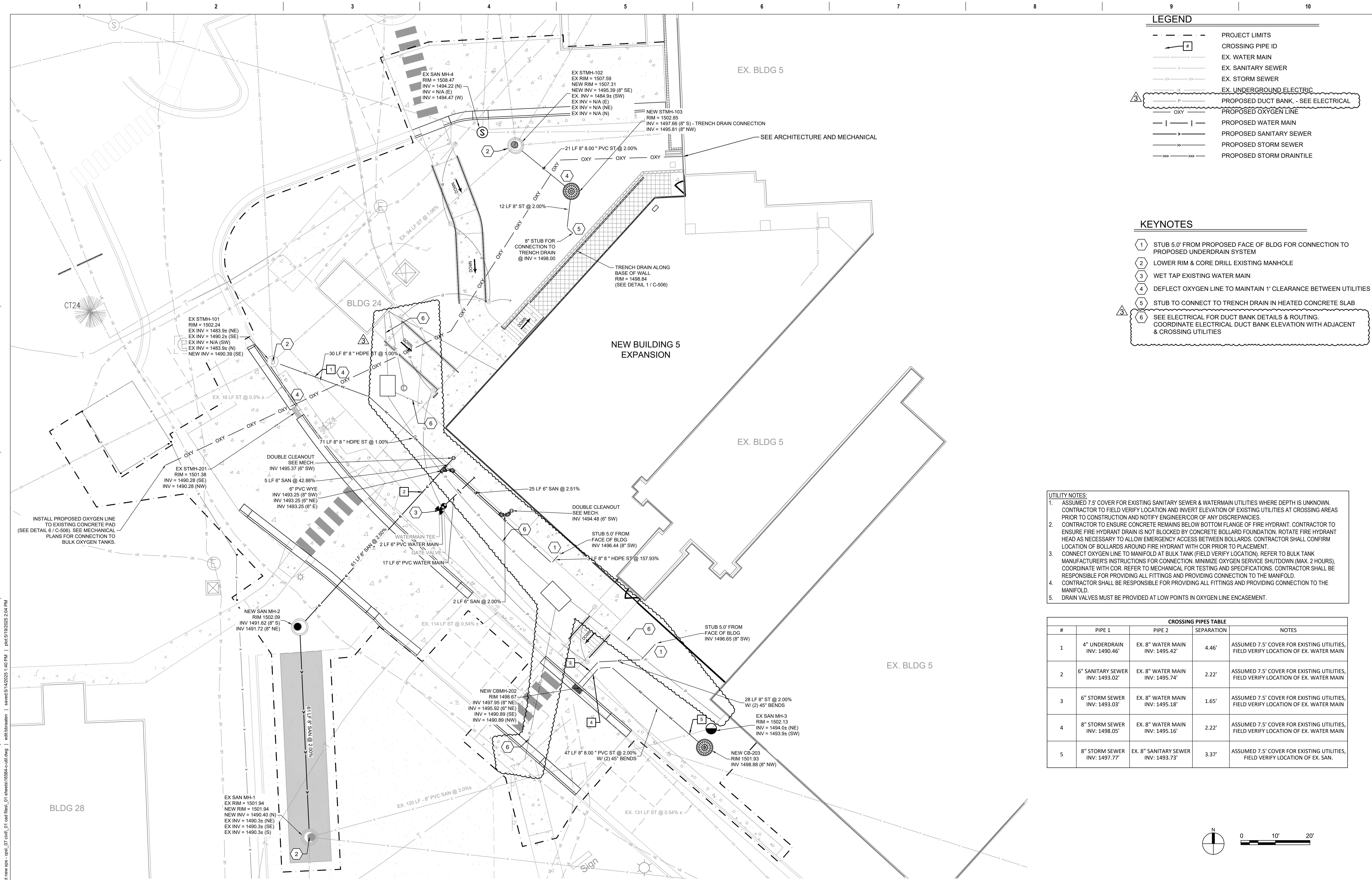
- NOTES:**
1. CONCRETE WASHOUT AREA TO BE ESTABLISHED BY CONTRACTOR.
 2. INSTALL TEMPORARY VEHICLE TRACKING CONTROL AT ALL LOCATIONS WHERE VEHICLES ENTER FROM PAVEMENT INTO CONSTRUCTION SITE. CONTRACTOR TO CLEAN PAVEMENTS OF SEDIMENTS AND MUD THAT IS NOT CONTROLLED BY VEHICLE TRACKING.
 3. TEMPORARY EROSION CONTROL DEVICES TO BE REMOVED BY CONTRACTOR WHEN SITE IS STABILIZED.
 4. CONTRACTOR TO SEED, FERTILIZE, AND MULCH ALL AREAS DISTURBED BY CONSTRUCTION WITH NON-IRRIGATED SEED MIXES. SEE LANDSCAPE PLAN LP101.
 5. SEDIMENT CONTROL WATTLE SHALL BE MADE FROM WEED-FREE STRAW, EXCELSIOR, COCONUT HUSK, OR YARD COMPOST.
 6. INSTALL SEDIMENT FILTERING DEVICES AT STORM DRAIN INLETS. INLET PROTECTION SHALL BE A BMP CONSISTING OF A FILTERING DEVICE PLACED IN THE MANHOLE THAT INCLUDES AN OVERFLOW FEATURE THAT ALLOWS TO BMP TO DRAIN WHEN PLUGGED OR FULL AND PREVENTS PONDING AT THE CURB INLETS. BASIS OF DESIGN IS FLEXTORM INLET FILTERS.

- EROSION CONTROL / STORM WATER POLLUTION CONTROL:**
- THE CONTRACTOR IS NOT REQUIRED TO OBTAIN COVERAGE UNDER THE DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES GENERAL STORM WATER CONSTRUCTION PERMIT AS THE PROJECT WILL DISTURB LESS THAN 1 ACRE OF LAND AREA. CONTACT SOUTH DAKOTA DENR AT 1-800-737-8678 FOR INFORMATION.
 - THE CONTRACTOR SHALL ALSO COMPLY WITH ANY CITY OF SIOUX FALLS EROSION AND SEDIMENT CONTROL REQUIREMENTS. CONTACT THE CITY OF SIOUX FALLS ENGINEERING DEPARTMENT AT 605-367-8601 FOR INFORMATION.
 - THE CONTRACTOR SHALL NOT BEGIN ANY SURFACE REMOVAL OR EXCAVATION UNTIL EROSION CONTROL MEASURES ARE IN PLACE FOR THE PHASE OF WORK BEING COMPLETED. EROSION CONTROL MEASURES SHALL PROCEED IN AN ORDERLY AND PROGRESSIVE MANNER AHEAD OF EXCAVATION WORK.
 - THE CONTRACTOR IS ADVISED THAT SEVERAL AGENCIES INCLUDING THE OWNER HAVE THE AUTHORITY TO "STOP WORK" IF THE POLLUTION PREVENTION CONTROL IS NOT IMPLEMENTED OR IS NOT EFFECTIVE IN PREVENTION OF ENVIRONMENTAL DAMAGE FROM CONSTRUCTION ACTIVITIES. NO COMPENSATION WILL BE FORTHCOMING FOR "LOST TIME" DUE TO A "STOP WORK" ORDER.
 - LOCATIONS FOR THE EROSION CONTROL MEASURES ARE RECOMMENDED ON THE PLANS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE DEVICES AND LOCATIONS NECESSARY FOR EFFECTIVE POLLUTION CONTROL IN ACCORDANCE WITH CITY, STATE, AND FEDERAL POLLUTION CONTROL REQUIREMENTS.
 - ALL STORM DRAIN INLETS SHALL BE PROTECTED BY APPROPRIATE BMPs DURING CONSTRUCTION UNTIL ALL SOURCES WITH POTENTIAL FOR DISCHARGING TO THE INLET HAVE BEEN STABILIZED.
 - THE CONTRACTOR SHALL FOLLOW THIS EROSION CONTROL PLAN TO ADDRESS POTENTIAL RUNOFF OF SURFACE WATERS CONTAINING SEDIMENT TO WATERS OF THE STATE. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTATION OF THIS PLAN. THIS PLAN, AS WELL AS IMPLEMENTATION, IS DESIGNED TO MINIMIZE THESE IMPACTS AND ADDRESS POTENTIAL PROBLEMS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMEDIATION OF ANY ADVERSE IMPACTS TO STORM SEWER, ADJACENT WATERWAYS, WETLANDS, ETC., RESULTING FROM WORK DONE AS PART OF THIS PROJECT.
 - THE CONTRACTOR WILL BE REQUIRED TO FIND AN APPROPRIATE LOCATION FOR CONCRETE WASHOUT. THE LOCATION WILL REQUIRE APPROPRIATE CONTAINMENT FOR THE WASHOUT OPERATIONS.
 - THE CONTRACTOR, AND / OR THEIR AUTHORIZED AGENTS SHALL ENSURE THAT ALL LOADS OF CUT AND FILL MATERIAL IMPORTED TO OR EXPORTED FROM THIS SITE SHALL BE PROPERLY COVERED TO PREVENT LOSS OF THE MATERIAL DURING TRANSPORT ON PUBLIC RIGHT OF WAYS.
 - SILT FENCE AND/OR WATTLES SHALL BE INSTALLED AS SHOWN ON THE DRAWING. IN LOCATION(S) WHERE HEAVY SEDIMENT TRANSPORT IS EXPECTED, A DOUBLE LAYER OF SILT FENCE OR PYRAMID OF WATTLES SHALL BE INSTALLED.

- INSPECTION AND MAINTENANCE:**
- THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL AND WATER POLLUTION CONTROL DEVICES ONCE A WEEK AND WITHIN 24 HOURS OF EVERY RAINFALL GREATER THAN 1/2 INCH. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE, TO INCLUDE BUT NOT BE LIMITED TO: REPAIR, RESET, MUCKING, REPLACEMENT, OF ALL TEMPORARY EROSION CONTROL AND WATER POLLUTION CONTROL DEVICES UNTIL PERMANENT EROSION CONTROL IS ESTABLISHED AND THE PROJECT HAS BEEN COMPLETED AND ACCEPTED. MAINTENANCE OF EROSION CONTROL AND WATER POLLUTION CONTROL DEVICES SHALL BE INCIDENTAL AND CONSIDERED PART OF THE UNIT COST.
 - CONSTRUCTION SITE VEHICLE EXIT LOCATIONS MUST BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING ONTO PAVED SURFACES. TRACKED SEDIMENT MUST BE REMOVED FROM ALL OFF-SITE ROADS WITHIN 24 HOURS OF DISCOVERY. CONSTRUCTION SITE VEHICLE EXIT LOCATIONS SHALL BE RELOCATED AS NECESSARY DEPENDENT UPON PHASING.
 - ALL SILT FENCES MUST BE REPAIRED, REPLACED, OR SUPPLEMENTED WHEN THEY BECOME NONFUNCTIONAL OR THE SEDIMENT REACHES 1/3 OF THE HEIGHT OF THE FENCE. THESE REPAIRS MUST BE MADE WITHIN 24 HOUR OF DISCOVERY, OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS.
 - TEMPORARY DRAINAGE DURING CONSTRUCTION IS THE CONTRACTOR'S RESPONSIBILITY. CONTRACTOR SHALL BE AWARE OF EXISTING DRAINAGE CONDITIONS AND FACILITIES, AND SHALL PROVIDE FOR DRAINAGE AND EROSION CONTROL DURING ALL PHASES OF CONSTRUCTION. DAMAGE CAUSED BY IMPROPER TEMPORARY DRAINAGE FACILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.

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Revisions: 1
Date: 2/14/2025

CONSULTANTS		ARCHITECT/ENGINEER OF RECORD		Office of Construction and Facilities Management		Drawing Title		Phase		Project Title		Project Number	
						EROSION CONTROL 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		U.S. Department of Veterans Affairs		Approved: Project Director		FULLY SPRINKLERED		Location		Building Number	
Revisions:		Date:		EDWIN J. Y. BROADMARKLE, PE DATE: 2025.02.14 LICENSE NO: 55409		SIOUX FALLS VA HEALTH CARE SYSTEM				SIoux FALLS, SOUTH DAKOTA		5	
1		2		3		4		5		Issue Date		Checked	
2		3		4		5		6		02/14/2025		EB	
3		4		5		6		7		Drawn		JD	
4		5		6		7		8		Drawing Number		CG102	
5		6		7		8		9		10			



LEGEND

- PROJECT LIMITS
- CROSSING PIPE ID
- EX. WATER MAIN
- EX. SANITARY SEWER
- EX. STORM SEWER
- EX. UNDERGROUND ELECTRIC
- PROPOSED DUCT BANK, - SEE ELECTRICAL
- PROPOSED OXYGEN LINE
- PROPOSED WATER MAIN
- PROPOSED SANITARY SEWER
- PROPOSED STORM SEWER
- PROPOSED STORM DRAINTILE

- KEYNOTES**
- STUB 5.0' FROM PROPOSED FACE OF BLDG FOR CONNECTION TO PROPOSED UNDERDRAIN SYSTEM
 - LOWER RIM & CORE DRILL EXISTING MANHOLE
 - WET TAP EXISTING WATER MAIN
 - DEFLECT OXYGEN LINE TO MAINTAIN 1' CLEARANCE BETWEEN UTILITIES
 - STUB TO CONNECT TO TRENCH DRAIN IN HEATED CONCRETE SLAB
 - SEE ELECTRICAL FOR DUCT BANK DETAILS & ROUTING. COORDINATE ELECTRICAL DUCT BANK ELEVATION WITH ADJACENT & CROSSING UTILITIES

- UTILITY NOTES:**
- ASSUMED 7.5' COVER FOR EXISTING SANITARY SEWER & WATERMAIN UTILITIES WHERE DEPTH IS UNKNOWN. CONTRACTOR TO FIELD VERIFY LOCATION AND INVERT ELEVATION OF EXISTING UTILITIES AT CROSSING AREAS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER/COR OF ANY DISCREPANCIES.
 - CONTRACTOR TO ENSURE CONCRETE REMAINS BELOW BOTTOM FLANGE OF FIRE HYDRANT. CONTRACTOR TO ENSURE FIRE HYDRANT DRAIN IS NOT BLOCKED BY CONCRETE BOLLARD FOUNDATION. ROTATE FIRE HYDRANT HEAD AS NECESSARY TO ALLOW EMERGENCY ACCESS BETWEEN BOLLARDS. CONTRACTOR SHALL CONFIRM LOCATION OF BOLLARDS AROUND FIRE HYDRANT WITH COR PRIOR TO PLACEMENT.
 - CONNECT OXYGEN LINE TO MANIFOLD AT BULK TANK (FIELD VERIFY LOCATION). REFER TO BULK TANK MANUFACTURER'S INSTRUCTIONS FOR CONNECTION. MINIMIZE OXYGEN SERVICE SHUTDOWN (MAX. 2 HOURS), COORDINATE WITH COR. REFER TO MECHANICAL FOR TESTING AND SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL FITTINGS AND PROVIDING CONNECTION TO THE MANIFOLD.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL FITTINGS AND PROVIDING CONNECTION TO THE MANIFOLD.
 - DRAIN VALVES MUST BE PROVIDED AT LOW POINTS IN OXYGEN LINE ENCASEMENT.

CROSSING PIPES TABLE				
#	PIPE 1	PIPE 2	SEPARATION	NOTES
1	4" UNDERDRAIN INV: 1490.46'	EX. 8" WATER MAIN INV: 1495.42'	4.46'	ASSUMED 7.5' COVER FOR EXISTING UTILITIES, FIELD VERIFY LOCATION OF EX. WATER MAIN
2	6" SANITARY SEWER INV: 1493.02'	EX. 8" WATER MAIN INV: 1495.74'	2.22'	ASSUMED 7.5' COVER FOR EXISTING UTILITIES, FIELD VERIFY LOCATION OF EX. WATER MAIN
3	6" STORM SEWER INV: 1493.03'	EX. 8" WATER MAIN INV: 1495.18'	1.65'	ASSUMED 7.5' COVER FOR EXISTING UTILITIES, FIELD VERIFY LOCATION OF EX. WATER MAIN
4	8" STORM SEWER INV: 1498.05'	EX. 8" WATER MAIN INV: 1495.16'	2.22'	ASSUMED 7.5' COVER FOR EXISTING UTILITIES, FIELD VERIFY LOCATION OF EX. WATER MAIN
5	8" STORM SEWER INV: 1497.77'	EX. 8" SANITARY SEWER INV: 1493.73'	3.37'	ASSUMED 7.5' COVER FOR EXISTING UTILITIES, FIELD VERIFY LOCATION OF EX. SAN.



ADDENDUM #3

Revisions:


5/20/2025

Date:

CONSULTANTS



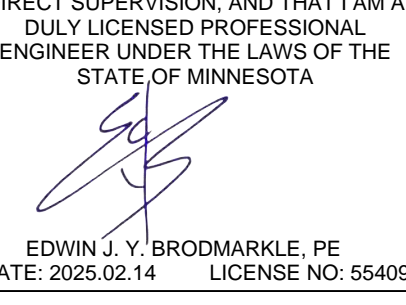
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EDWIN J. Y. BROADMARKLE, PE
DATE: 2025.02.14 LICENSE NO: 55409

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title

UTILITY 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

02/14/2025

Checked

EB

Drawn

AB

Project Number

438-460

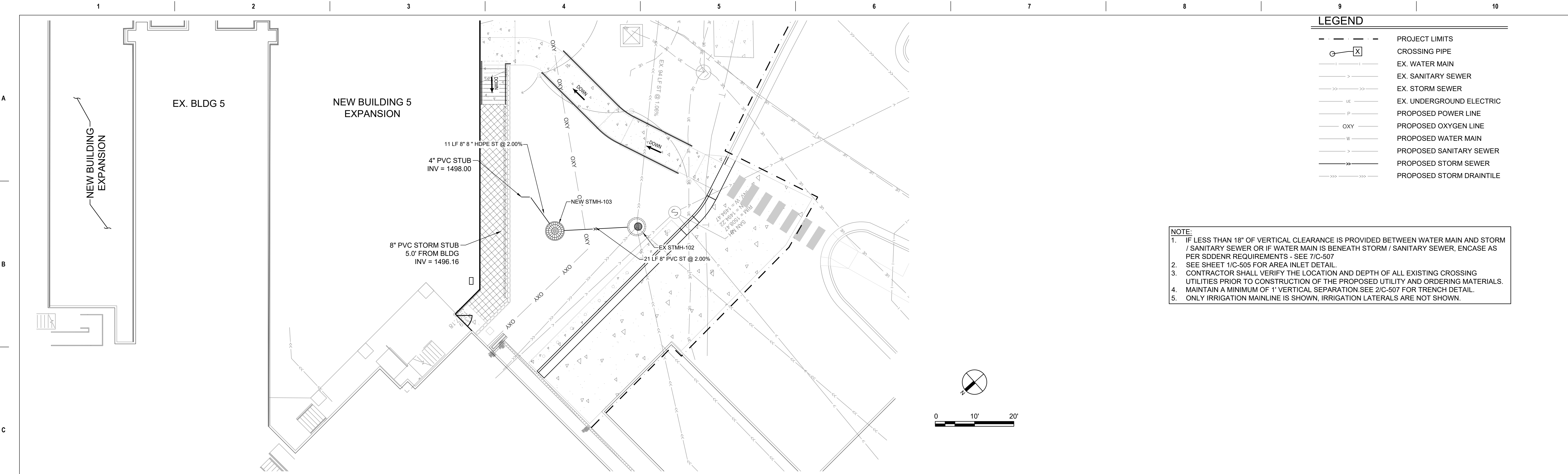
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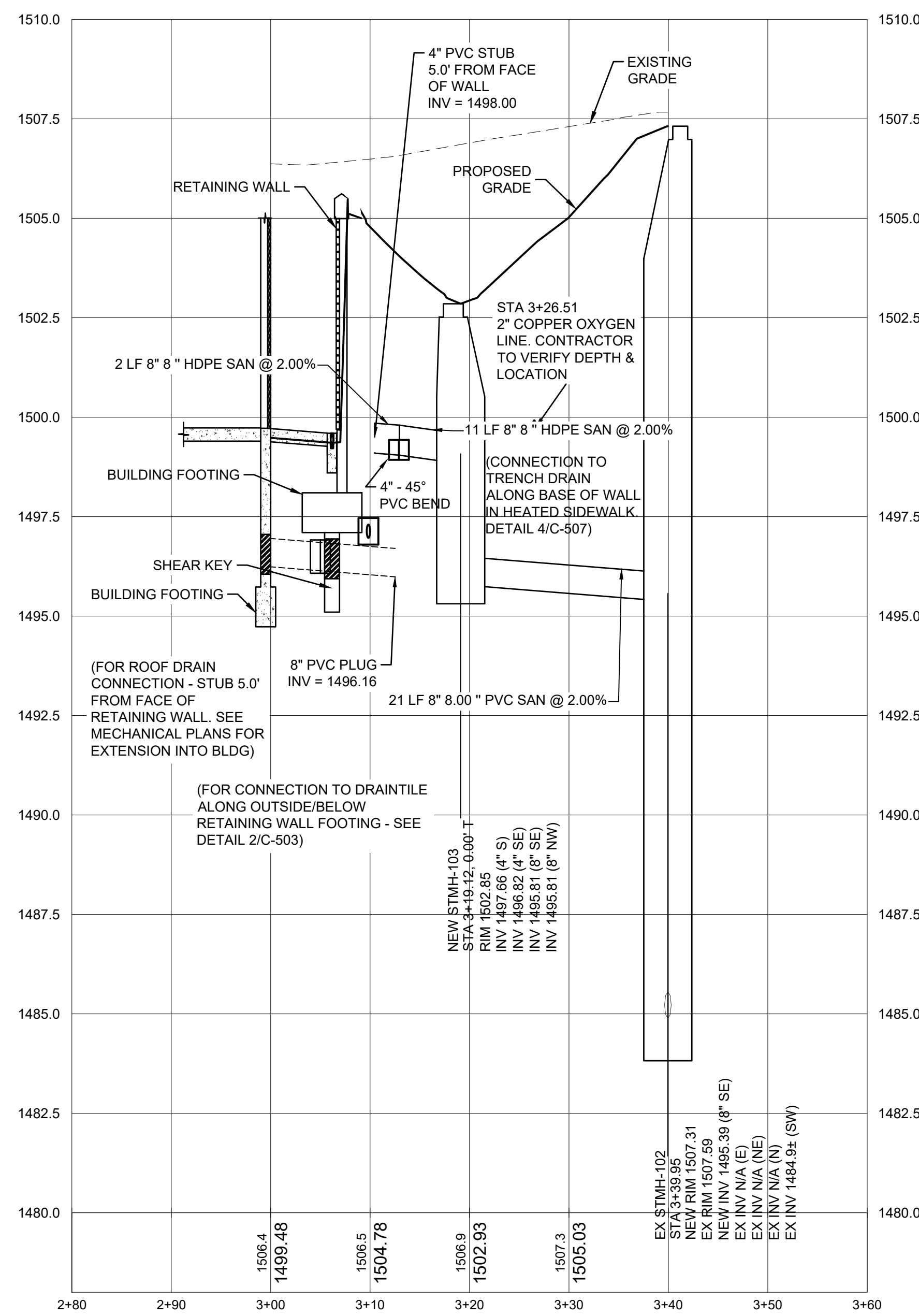
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CU101

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PROFILE VIEW OF STORM SEWER #2



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Revisions:	Date:

CONSULTANTS

IMEG *ECO design*

ARCHITECT/ENGINEER OF RECORD

ANDERSON

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[Signature]

EDWIN J. Y. BROADMARKLE, PE
DATE: 2025.02.14 LICENSE NO: 55409

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title

STORM SEWER PLAN AND PROFILE

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

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Drawn

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Project Number

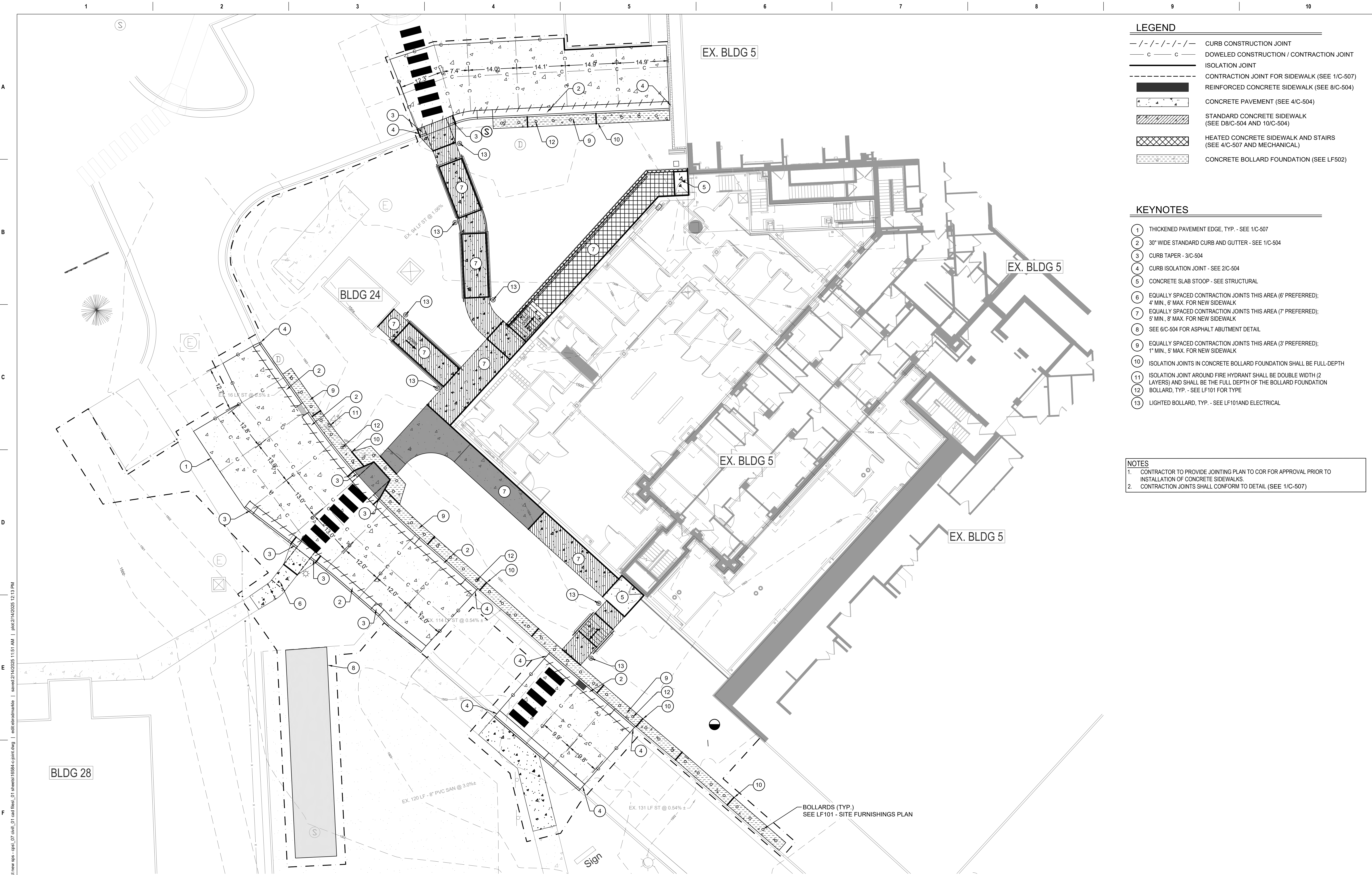
438-460

Building Number

5

Drawing Number

CU105



LEGEND	
	CURB CONSTRUCTION JOINT
	DOWELED CONSTRUCTION / CONTRACTION JOINT
	ISOLATION JOINT
	CONTRACTION JOINT FOR SIDEWALK (SEE 1/C-507)
	REINFORCED CONCRETE SIDEWALK (SEE 8/C-504)
	CONCRETE PAVEMENT (SEE 4/C-504)
	STANDARD CONCRETE SIDEWALK (SEE D8/C-504 AND 10/C-504)
	HEATED CONCRETE SIDEWALK AND STAIRS (SEE 4/C-507 AND MECHANICAL)
	CONCRETE BOLLARD FOUNDATION (SEE LF502)

KEYNOTES	
1	THICKENED PAVEMENT EDGE, TYP. - SEE 1/C-507
2	30" WIDE STANDARD CURB AND GUTTER - SEE 1/C-504
3	CURB TAPER - 3/C-504
4	CURB ISOLATION JOINT - SEE 2/C-504
5	CONCRETE SLAB STOOP - SEE STRUCTURAL
6	EQUALLY SPACED CONTRACTION JOINTS THIS AREA (6' PREFERRED); 4' MIN., 6' MAX. FOR NEW SIDEWALK
7	EQUALLY SPACED CONTRACTION JOINTS THIS AREA (7' PREFERRED); 5' MIN., 8' MAX. FOR NEW SIDEWALK
8	SEE 6/C-504 FOR ASPHALT ABUTMENT DETAIL
9	EQUALLY SPACED CONTRACTION JOINTS THIS AREA (3' PREFERRED); 1' MIN., 5' MAX. FOR NEW SIDEWALK
10	ISOLATION JOINTS IN CONCRETE BOLLARD FOUNDATION SHALL BE FULL-DEPTH
11	ISOLATION JOINT AROUND FIRE HYDRANT SHALL BE DOUBLE WIDTH (2 LAYERS) AND SHALL BE THE FULL DEPTH OF THE BOLLARD FOUNDATION
12	BOLLARD, TYP. - SEE LF101 FOR TYPE
13	LIGHTED BOLLARD, TYP. - SEE LF101AND ELECTRICAL

NOTES	
1.	CONTRACTOR TO PROVIDE JOINTING PLAN TO COR FOR APPROVAL PRIOR TO INSTALLATION OF CONCRETE SIDEWALKS.
2.	CONTRACTION JOINTS SHALL CONFORM TO DETAIL (SEE 1/C-507)

Revisions:

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ARCHITECT/ENGINEER OF RECORD

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EDWIN J. V. BROADMARKLE, PE
DATE: 2025.02.14 LICENSE NO: 55409

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title

PAVING & JOINT LAYOUT 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: 02/14/2025

Checked: EB

Drawn: AB

Project Number

438-460

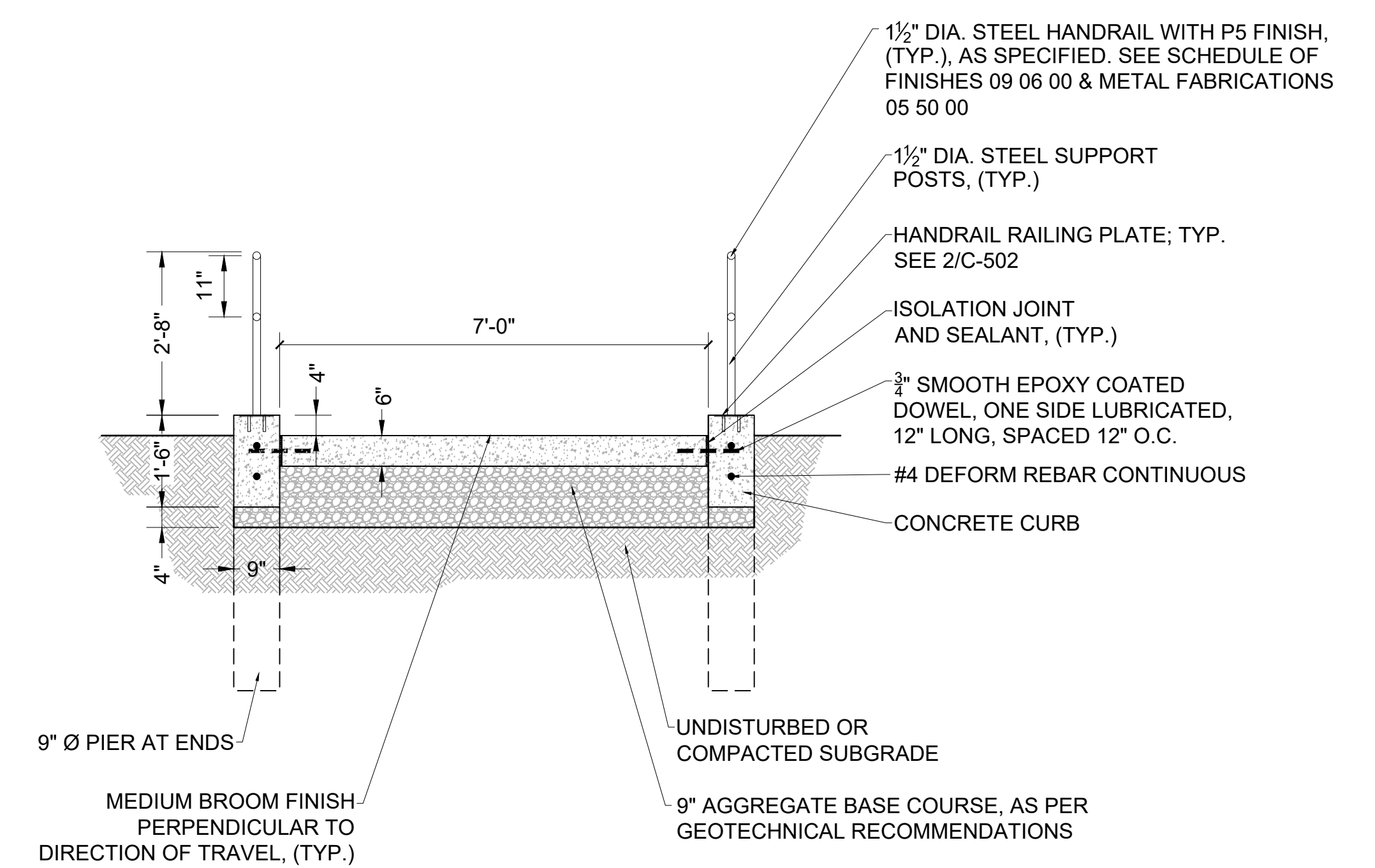
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Drawing Number

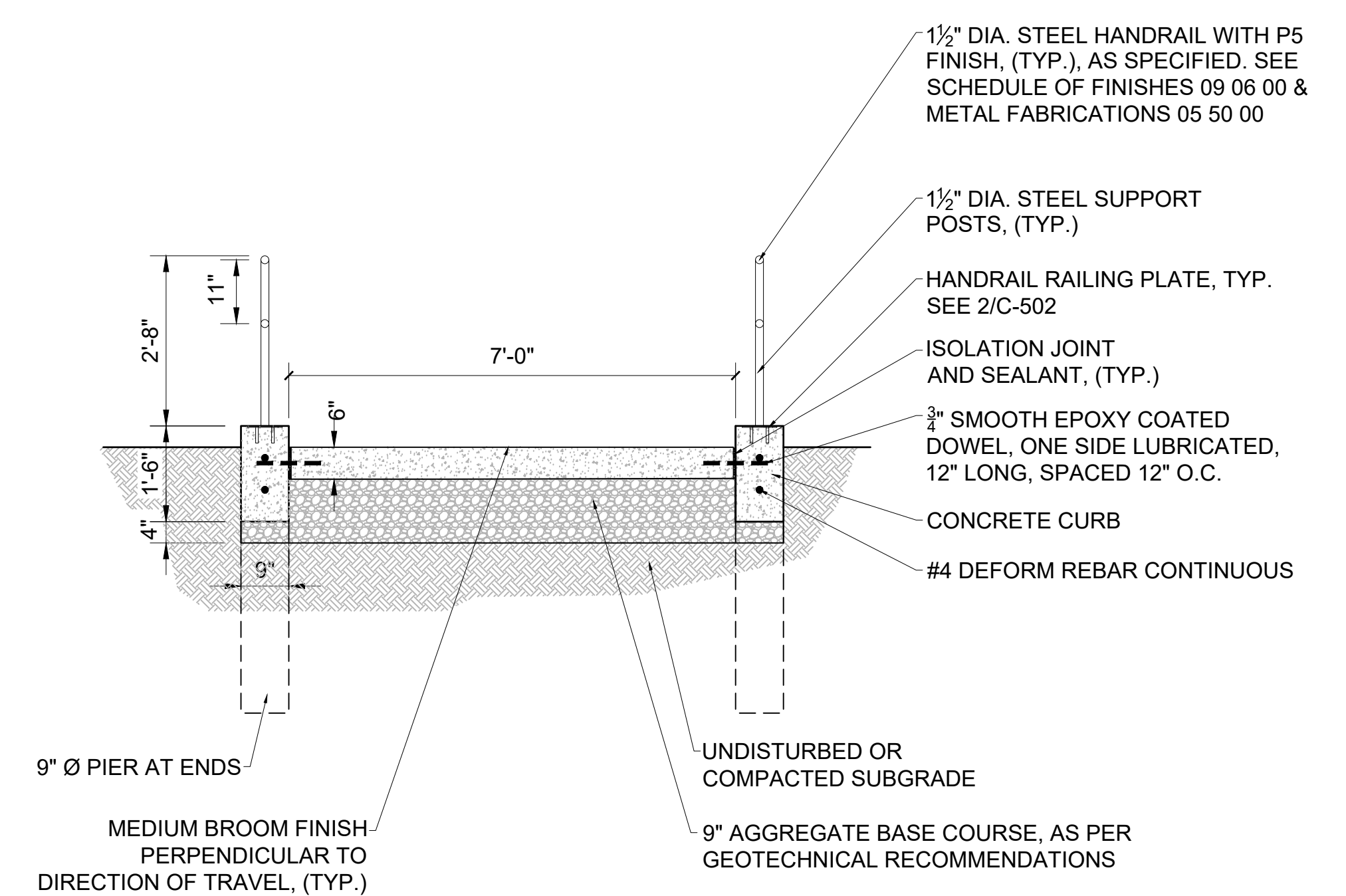
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SECTION A-A

1 RAMP #1 DETAIL
SCALE: 1/2" = 1'-0" (30" x 42" PAPER SIZE)



SECTION B-B

2 RAMP #2 DETAIL
SCALE: 1/2" = 1'-0" (30" x 42" PAPER SIZE)

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A

B

C

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E

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A

B

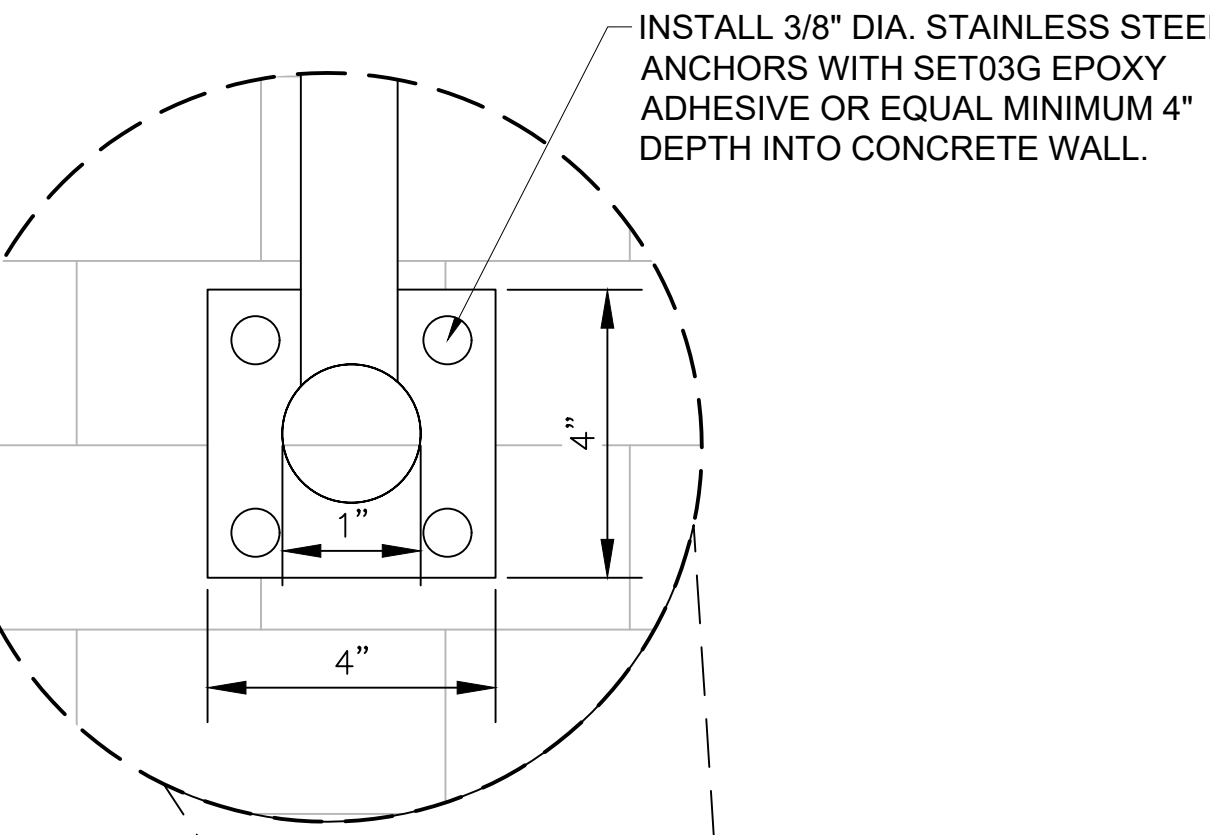
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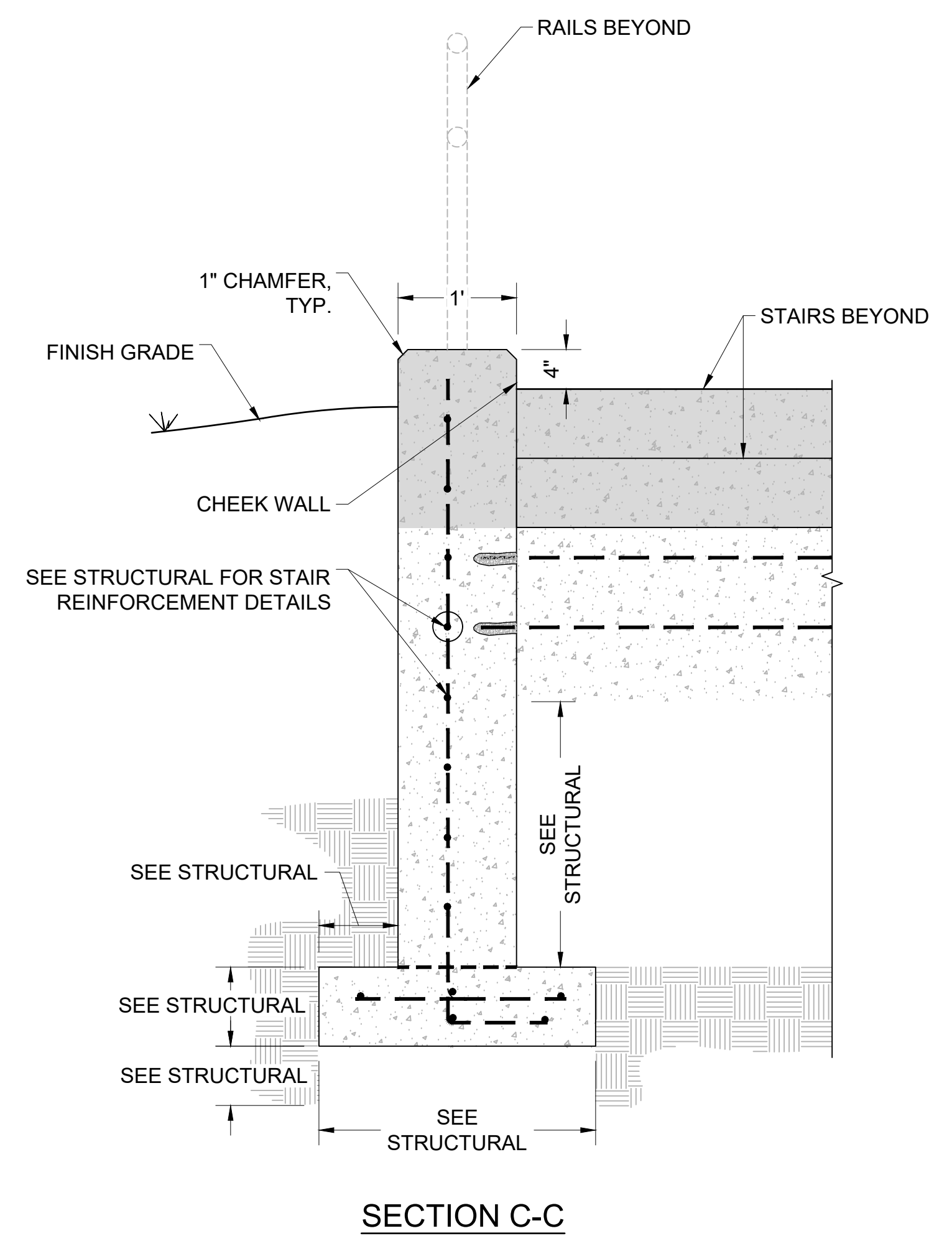
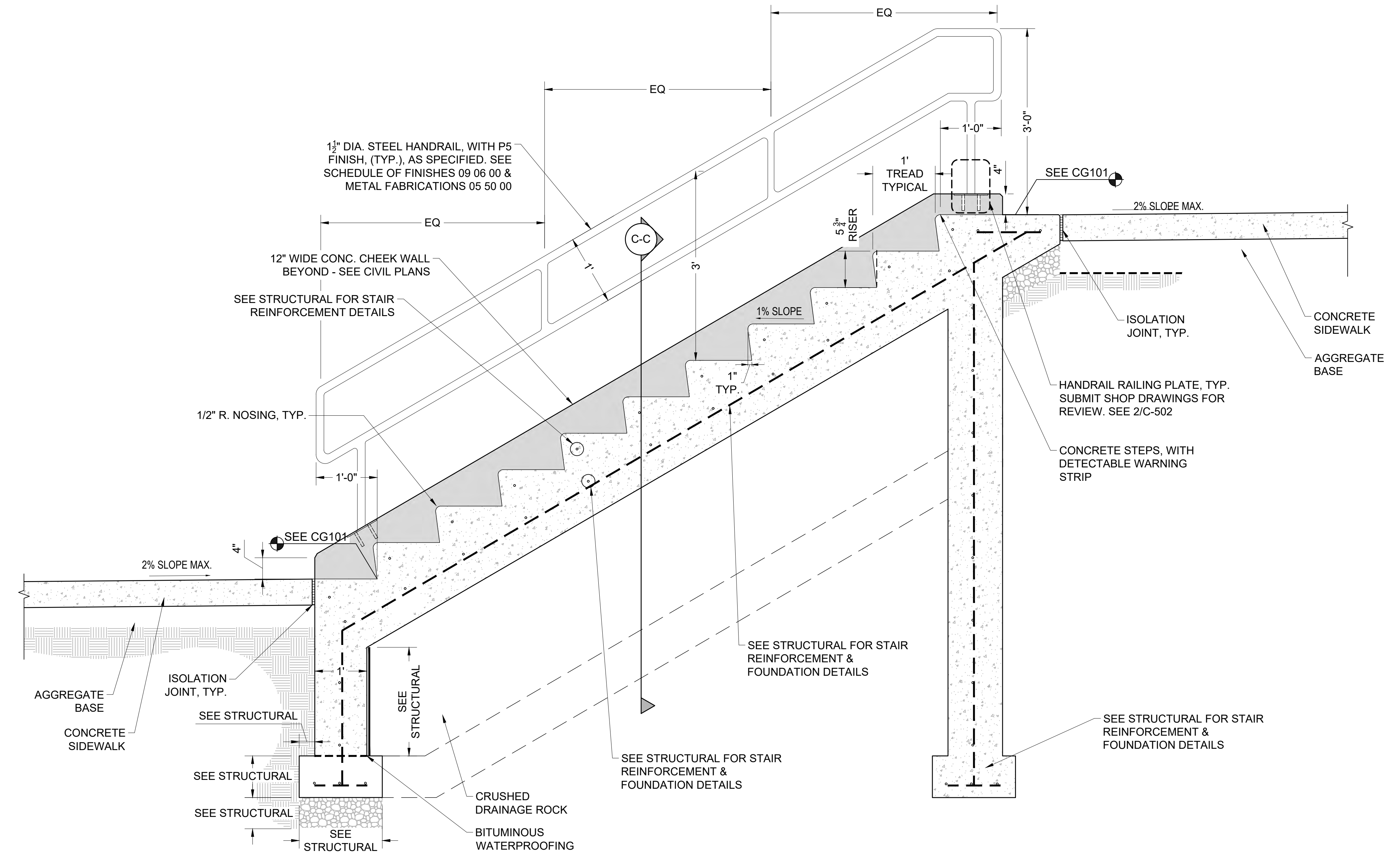
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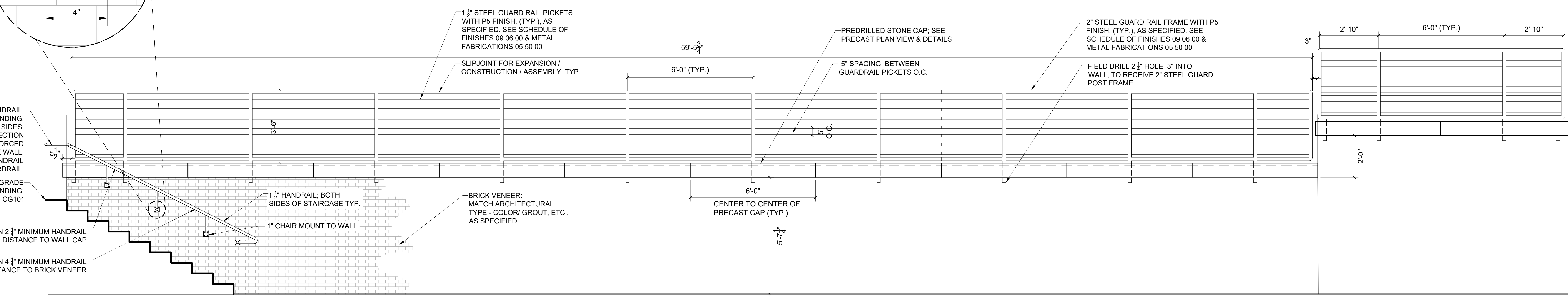
2 ENLARGED RAILING PLATE DETAIL
SCALE: 1" = 3" (30" x 42" PAPER SIZE)






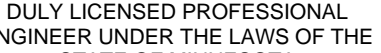
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SCALE: 1" = 1'-0" (30" x 42" PAPER SIZE)



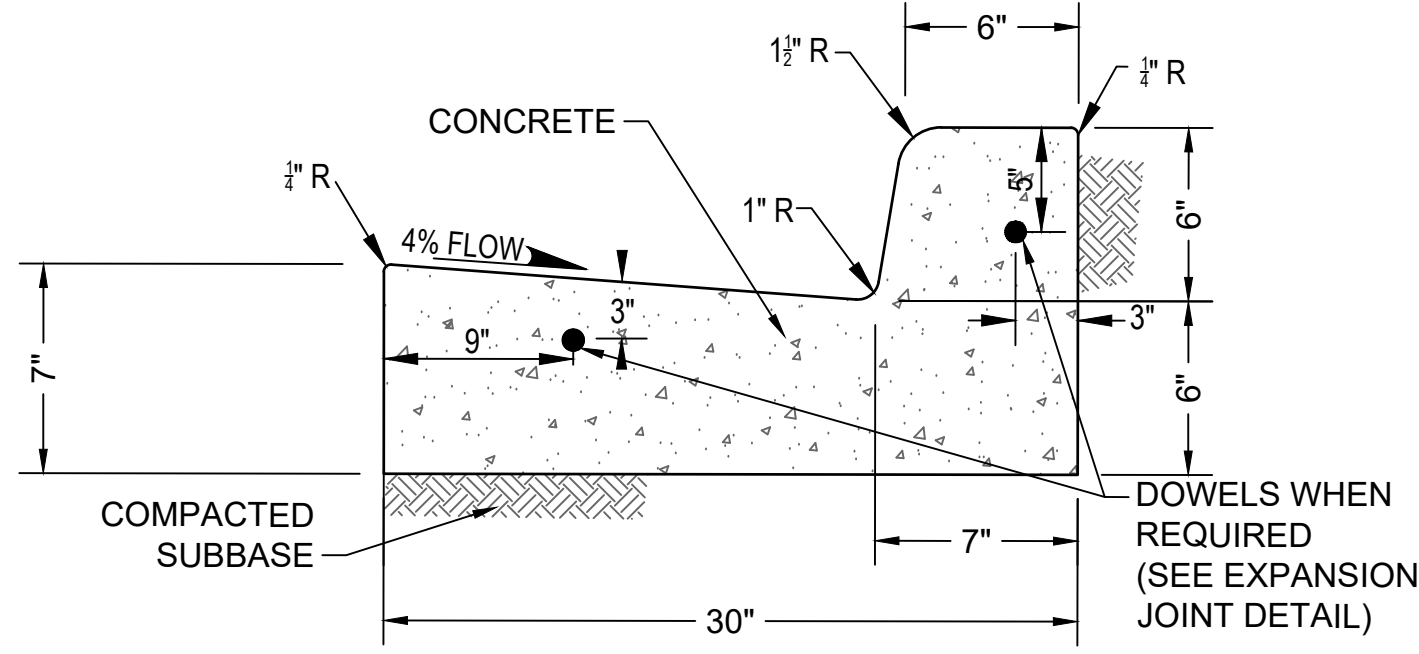
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SCALE: 1" = 1'-0" (30" x 42" PAPER SIZE)



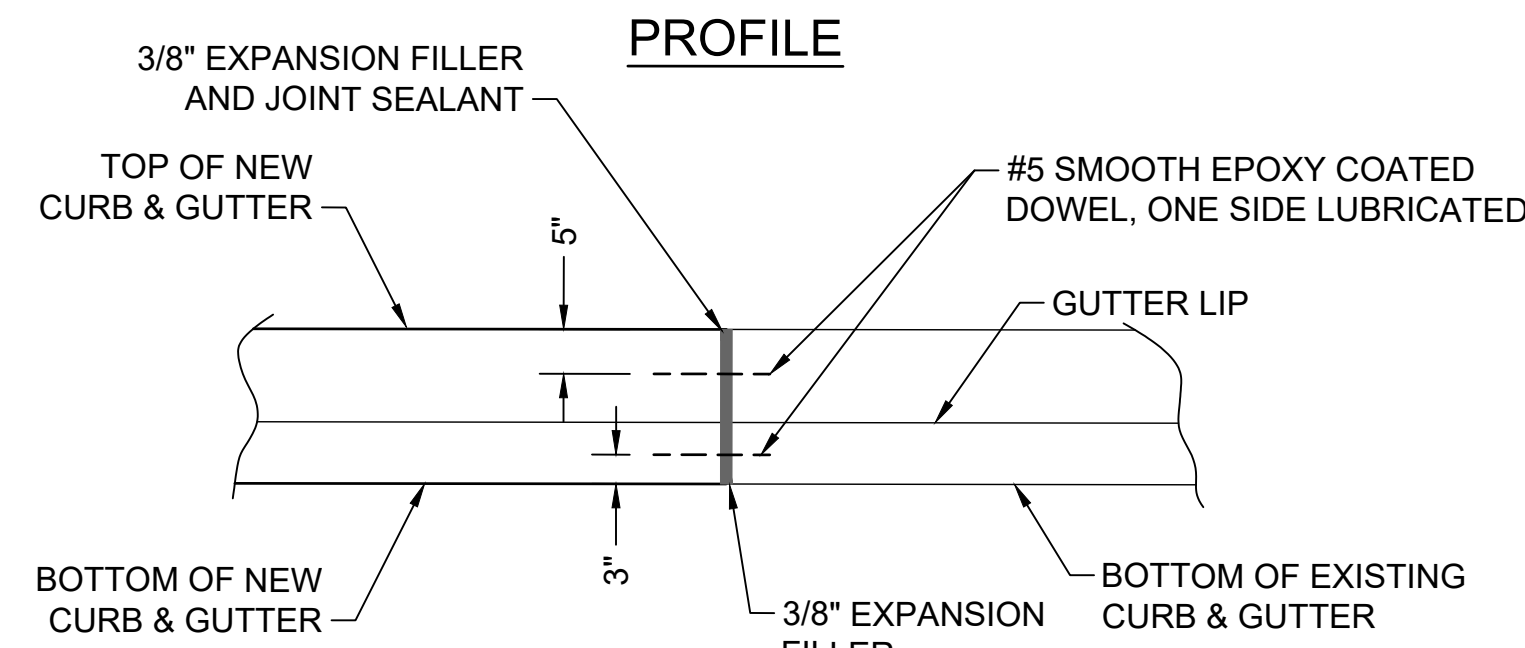
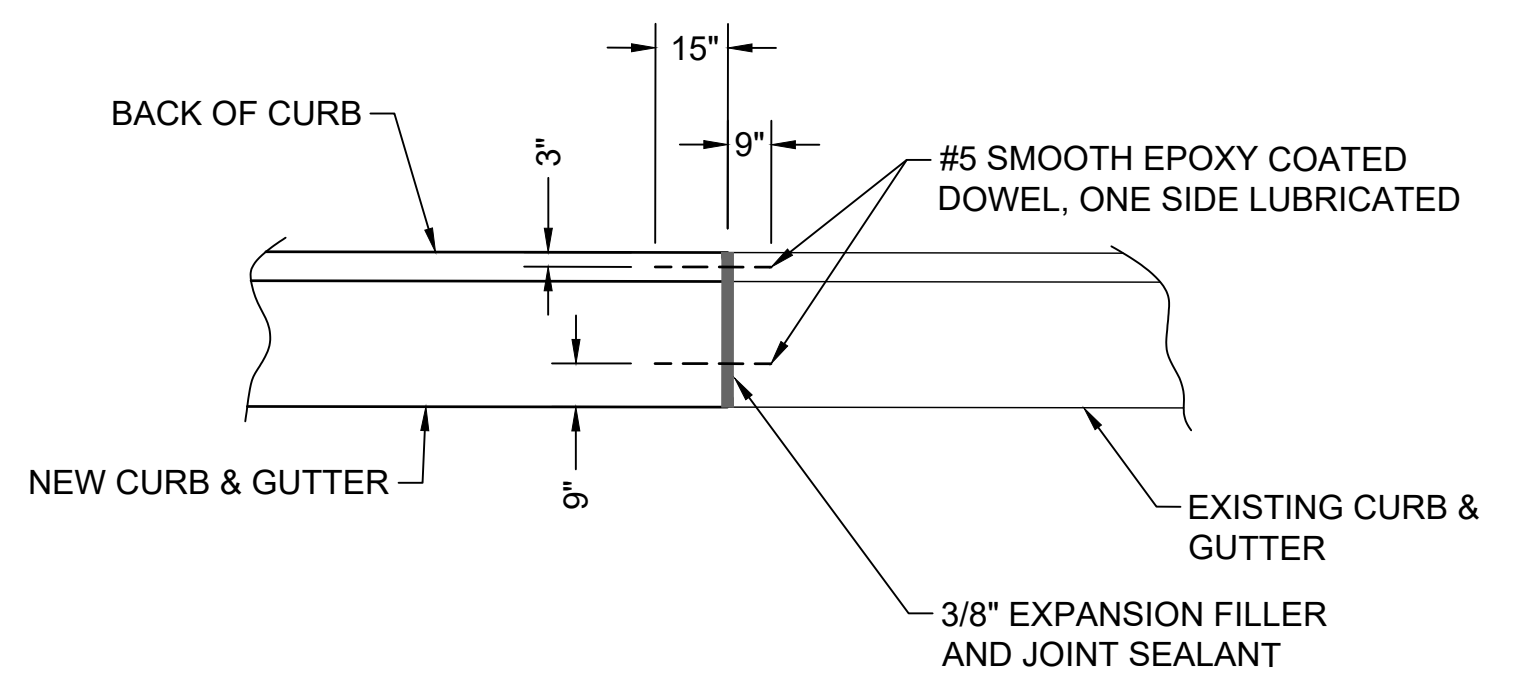
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		 	 13605 1st Ave. N. #100 Plymouth, MN 55441 P 763.412.4000 F 763.412.4090 e-mail: anderson@andersoneng.com Anderson Engineering of Minnesota, LLC Proj # 16584	<p>I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT, WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA</p>  EDWIN J. Y. BRODMARK, PE DATE: 2025.02.14 LICENSE NO: 55409	VAU.S. Department of Veterans Affairs	STAIRS SITE DETAILS	BID DOCUMENTS	CONSTRUCT NEW SPS	438-460			
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Revisions:		Date:										

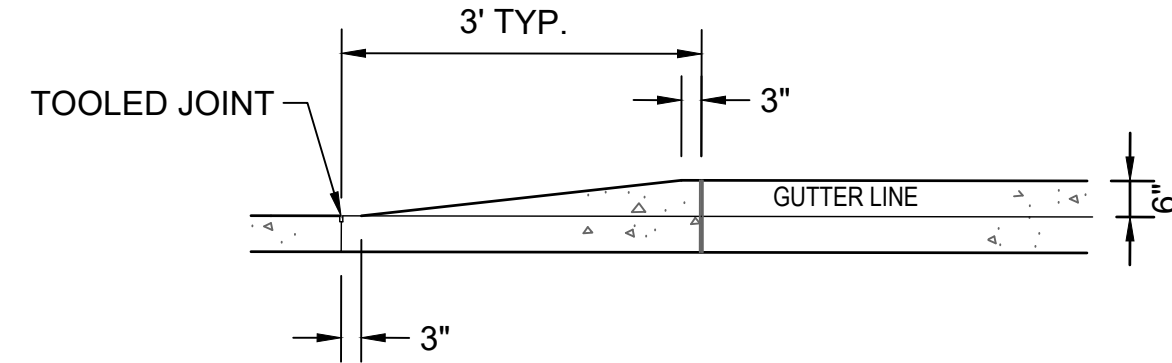
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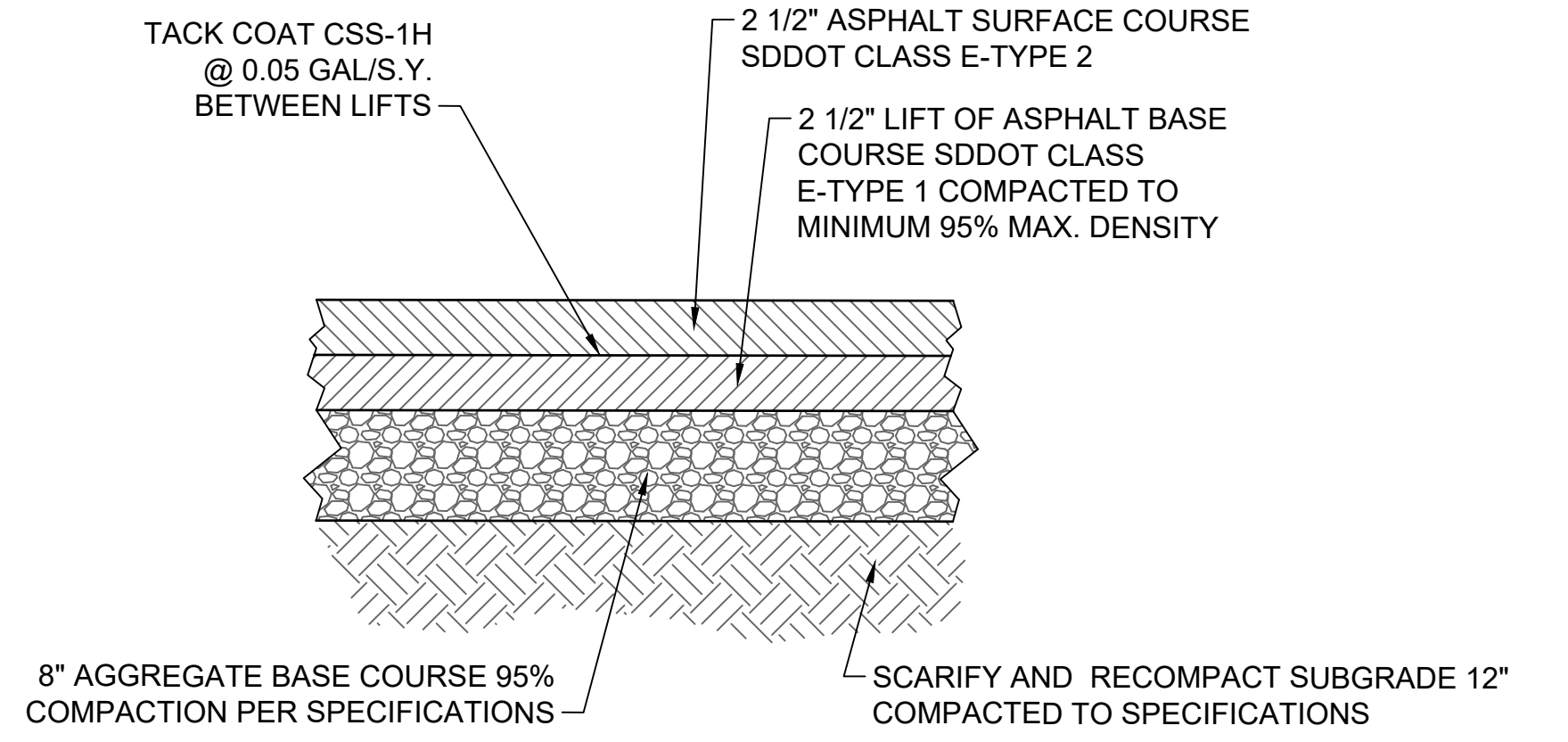
30" WIDE STANDARD CURB AND GUTTER
NTS



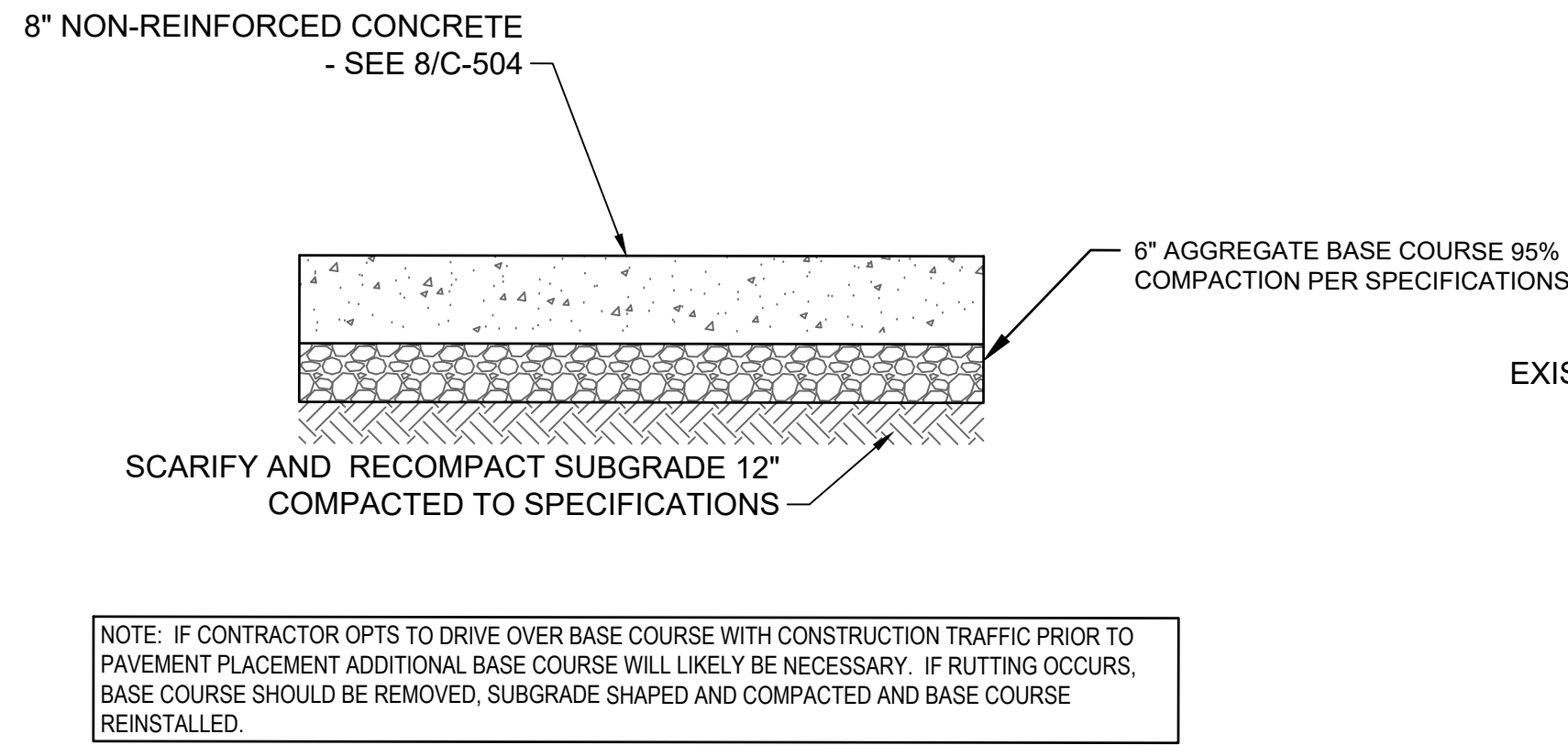
2 CURB AND GUTTER ISOLATION (EXPANSION) JOINT
SCALE: NTS



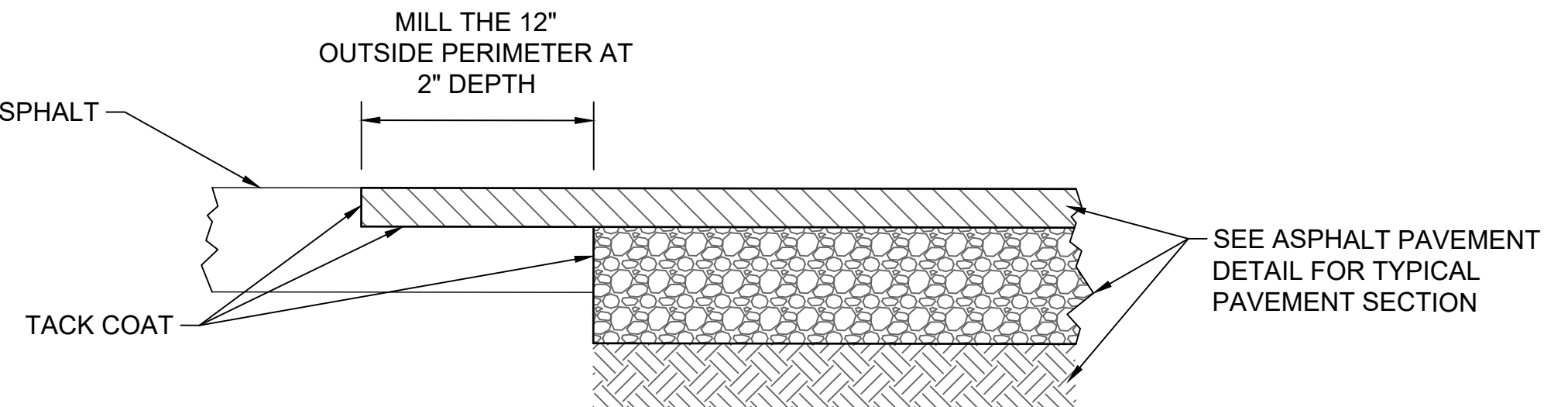
3 CURB TAPER DETAIL
SCALE: NTS



5 ASPHALT PAVEMENT DETAIL
SCALE: NTS



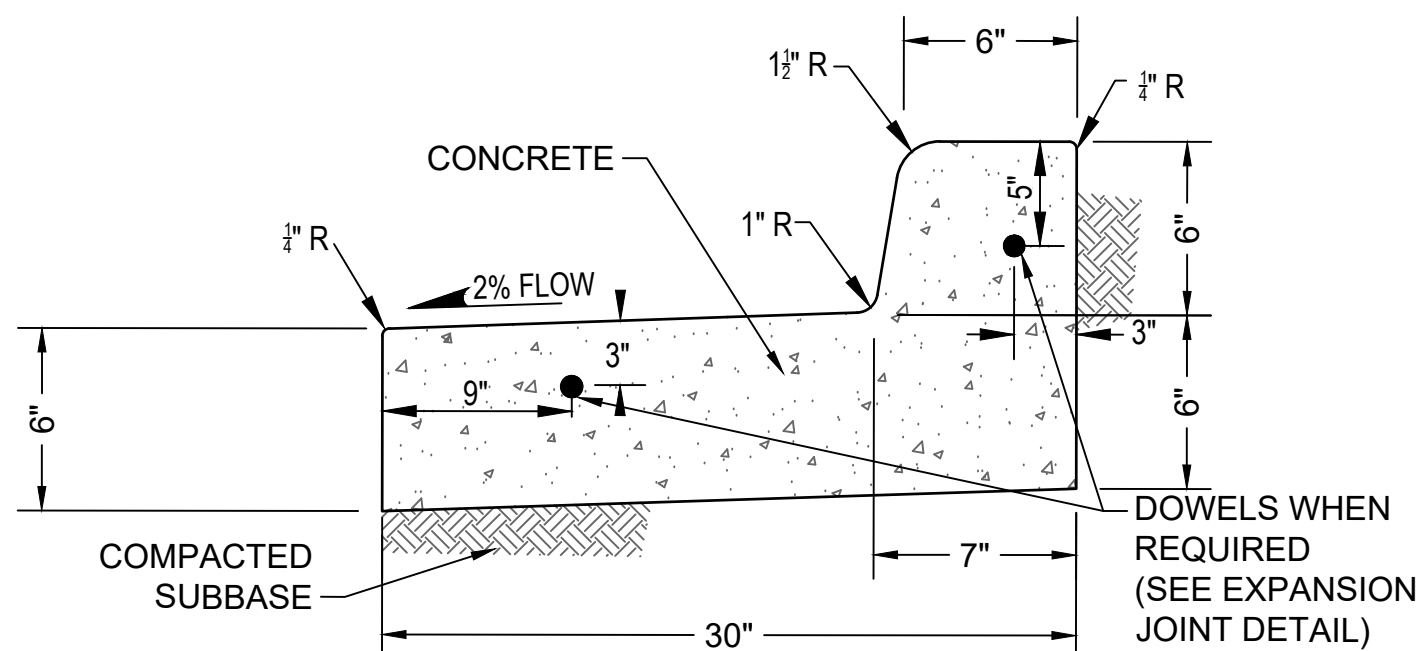
4 CONCRETE PAVEMENT DETAIL
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6 ASPHALT ABUTMENT DETAIL
SCALE: NTS

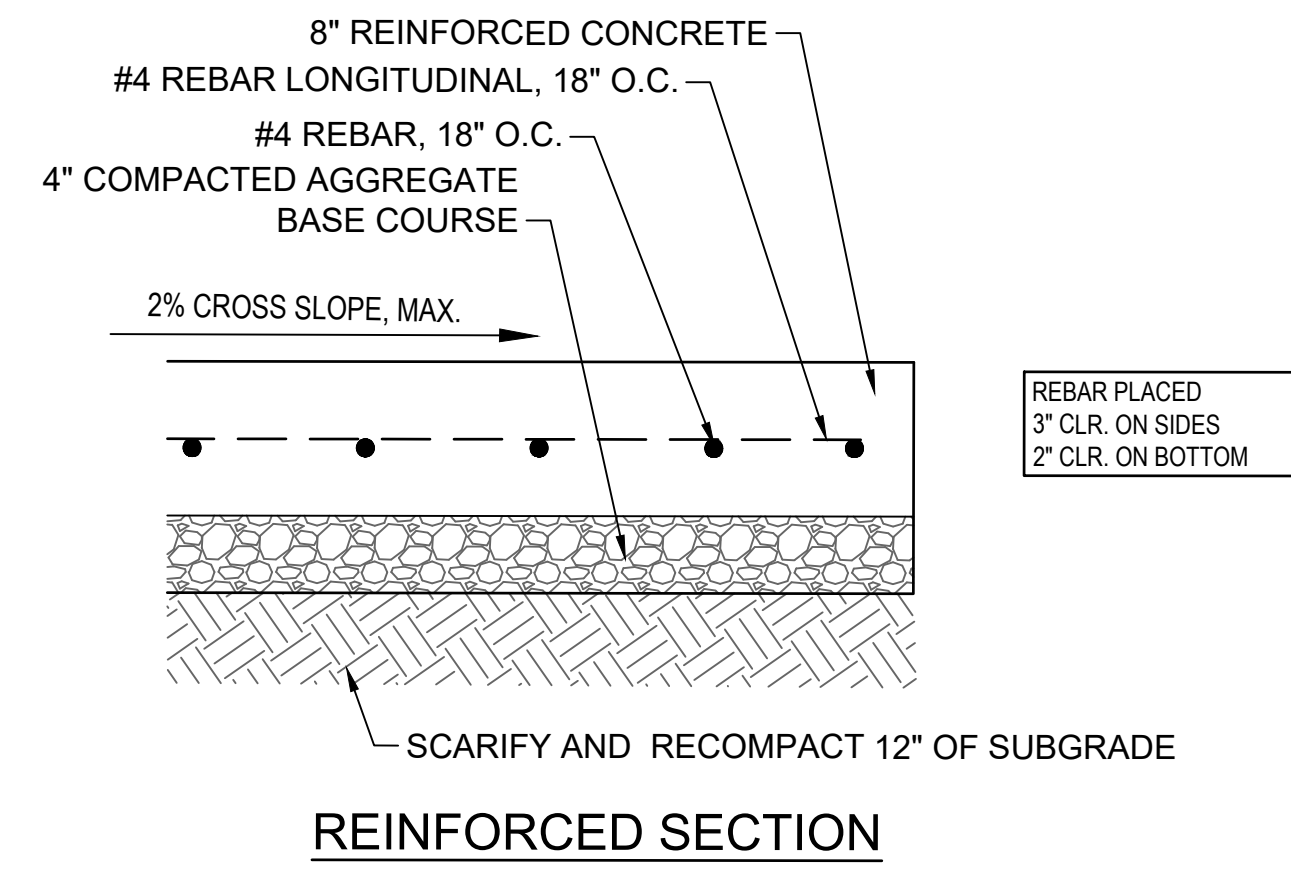
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1 30" CURB TYPICAL SECTIONS
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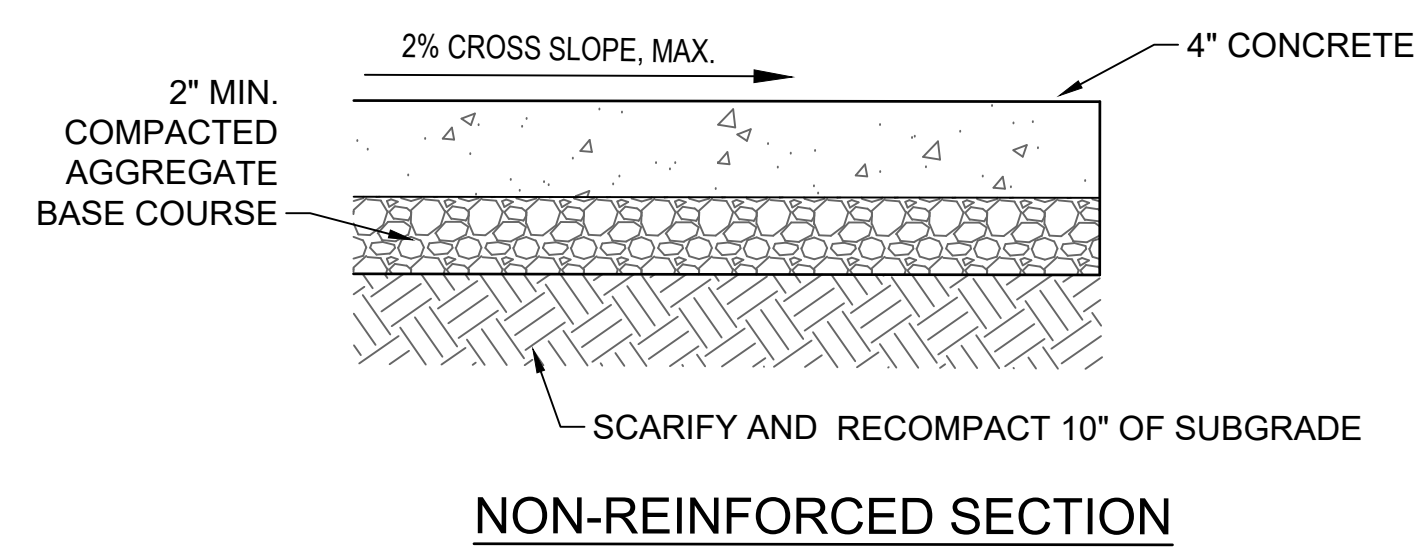


30" WIDE TIP-OUT CURB AND GUTTER
NTS

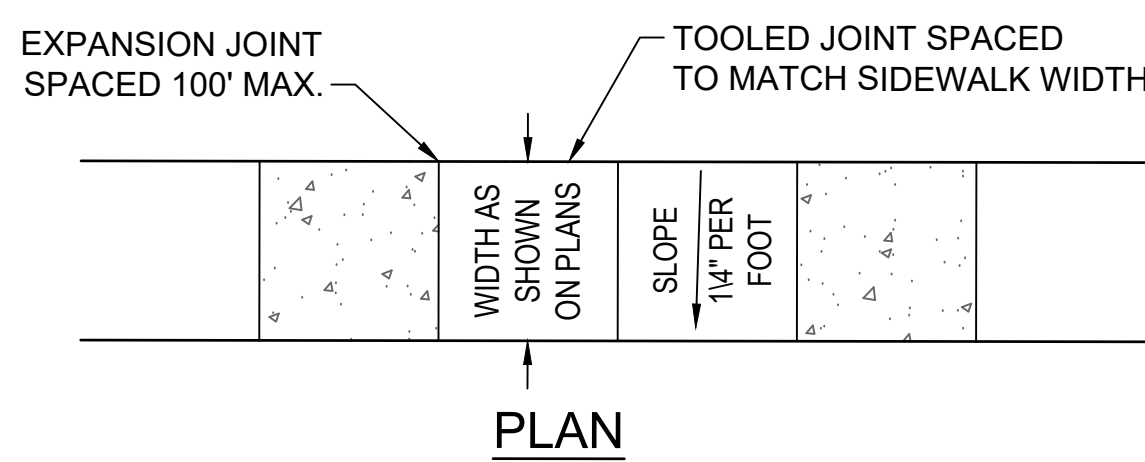
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REINFORCED SECTION

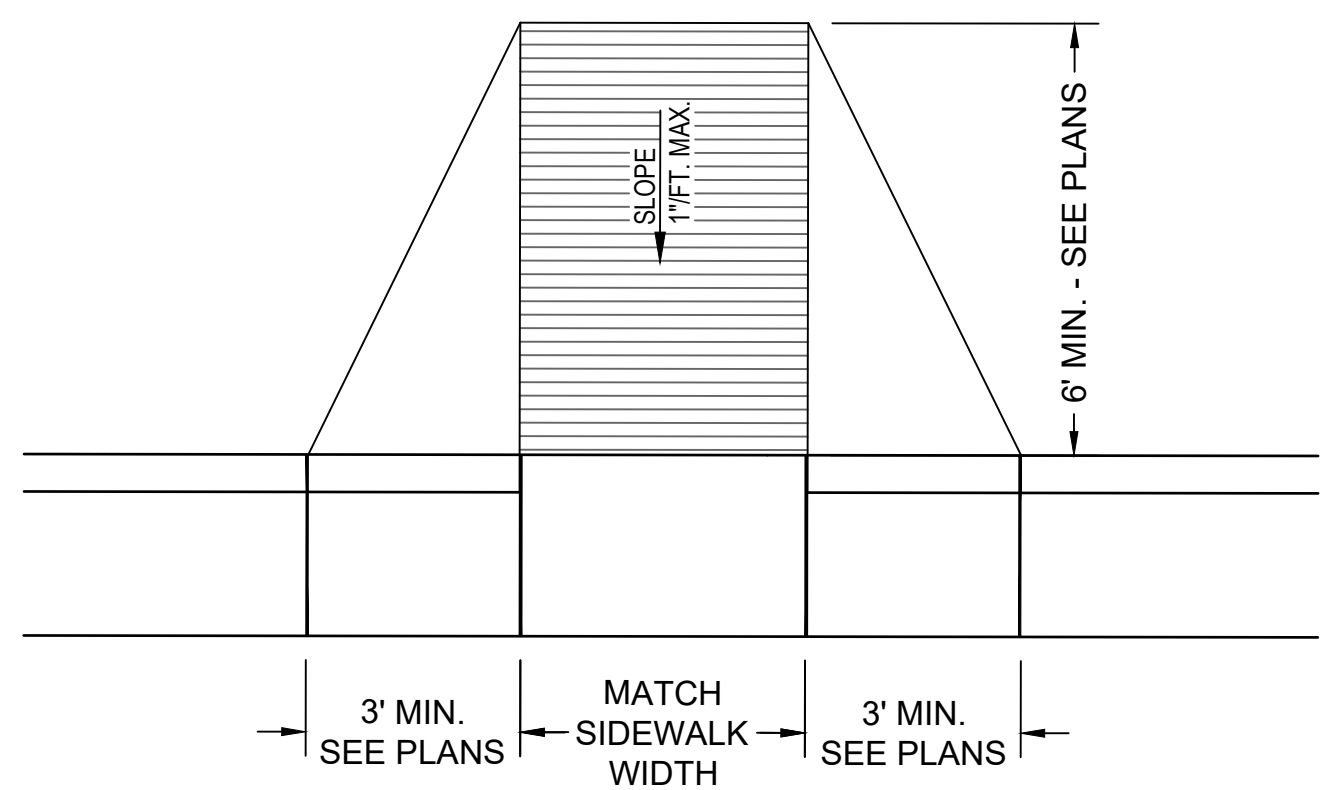


NON-REINFORCED SECTION



PLAN

E

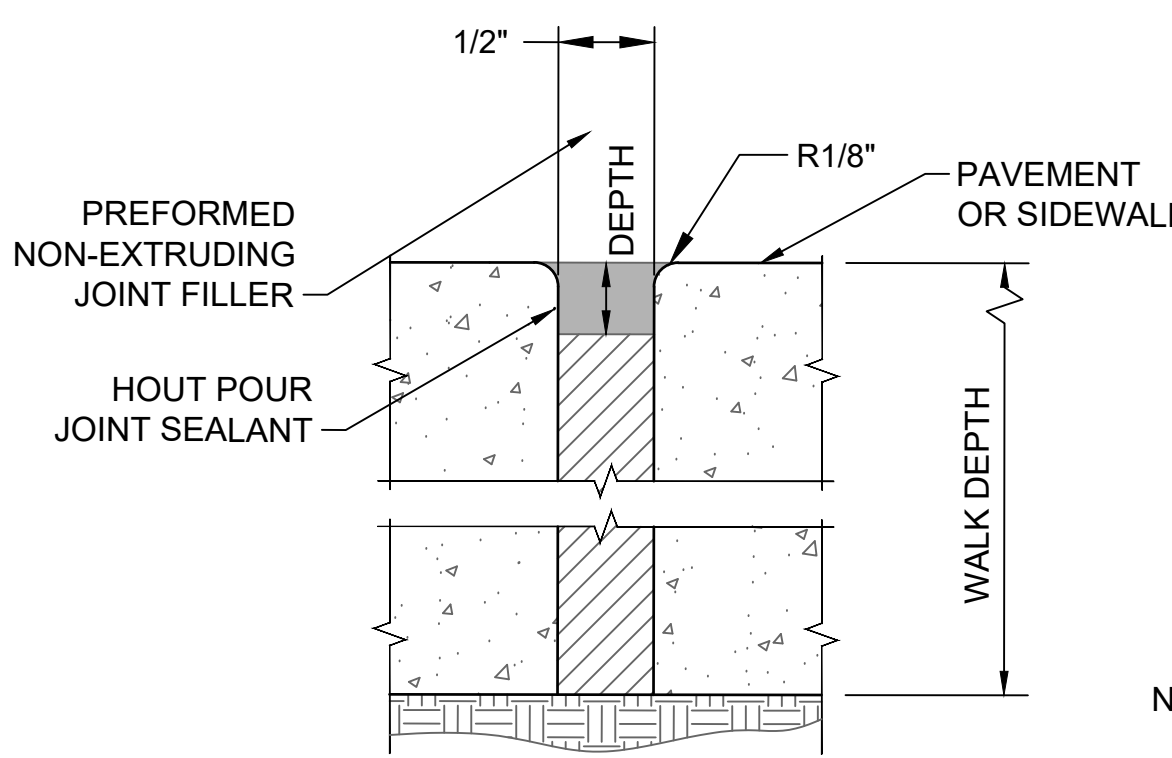


NOTES:
1. SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY A COARSE BROOMING AND TINING, TRANSVERSE TO THE SLOPE OF THE RAMP.
2. CARE SHALL BE TAKEN TO ASSURE A UNIFORM GRADE ON THE RAMP, FREE OF SAGS AND SHORT GRADE CHANGES.
3. THE NORMAL GUTTER LINE PROFILE SHALL BE MAINTAINED THROUGH THE AREA OF THE RAMP OPENING.
4. CROSS SLOPES SHALL NOT EXCEED 2%.

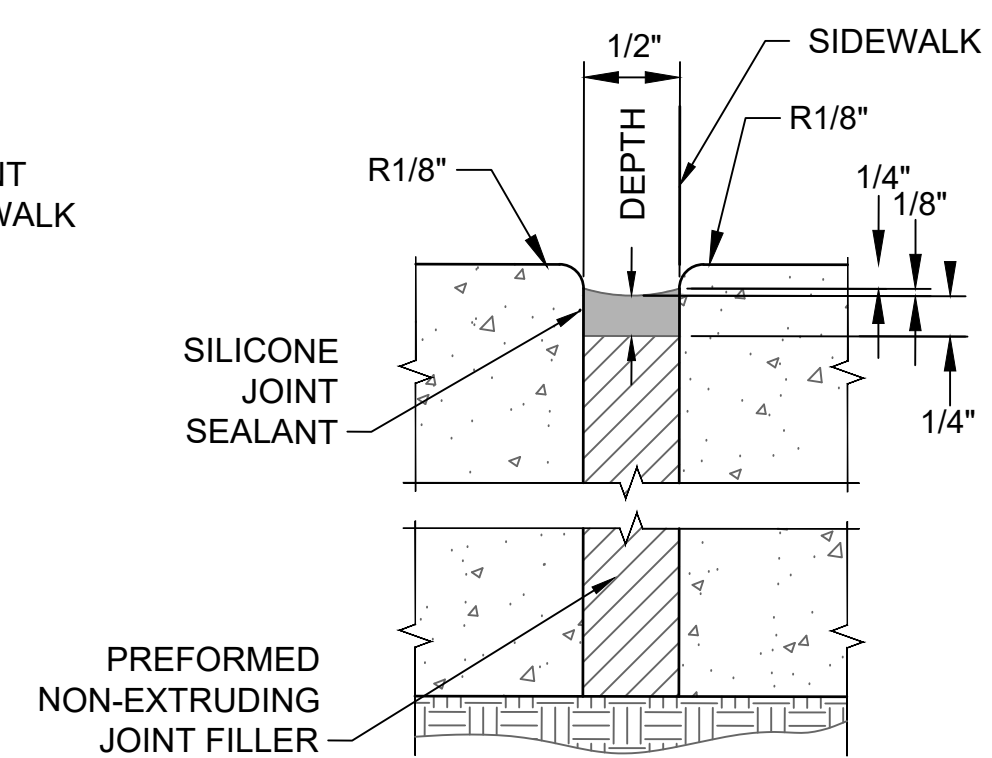
7 ABA CURB RAMPS
SCALE: NTS

F

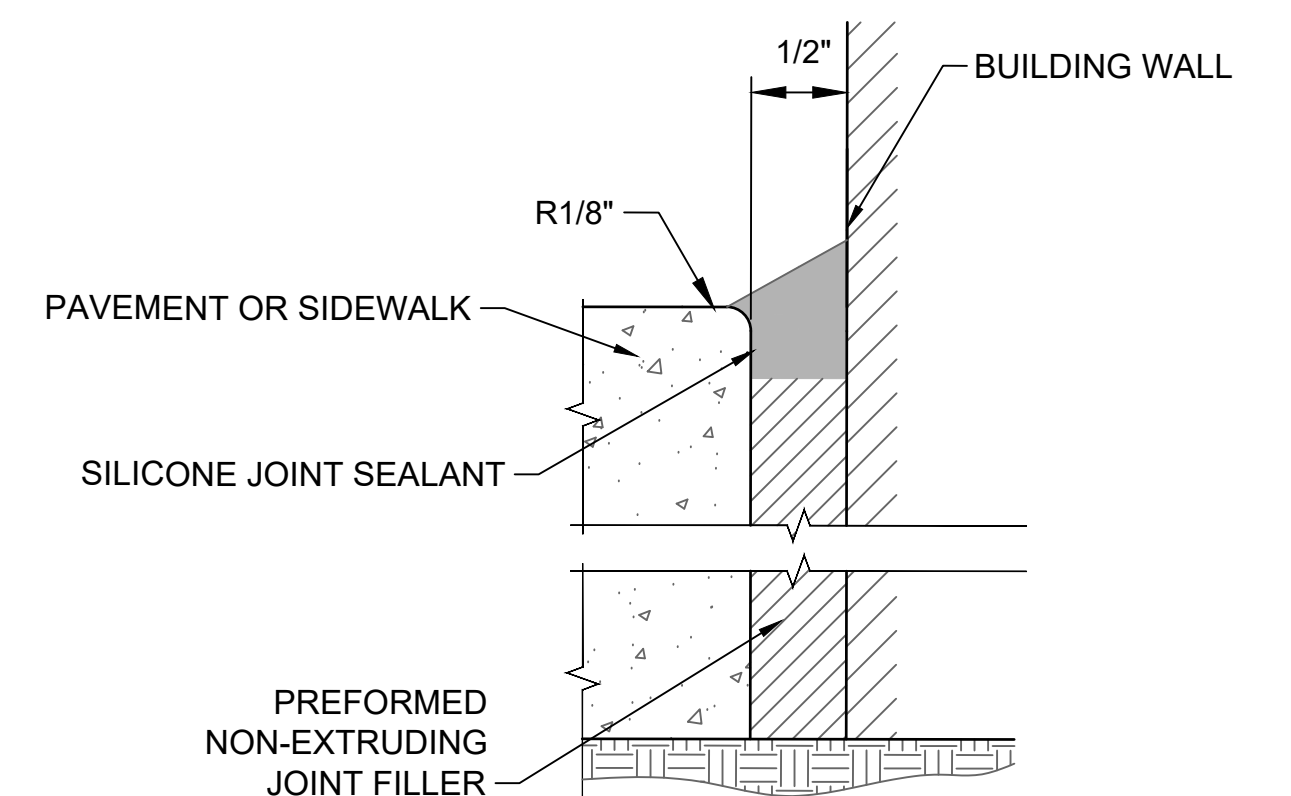
8 SIDEWALK DETAIL
SCALE: NTS



PAVEMENT ISOLATION JOINT W/ HOT
POUR SEALANT



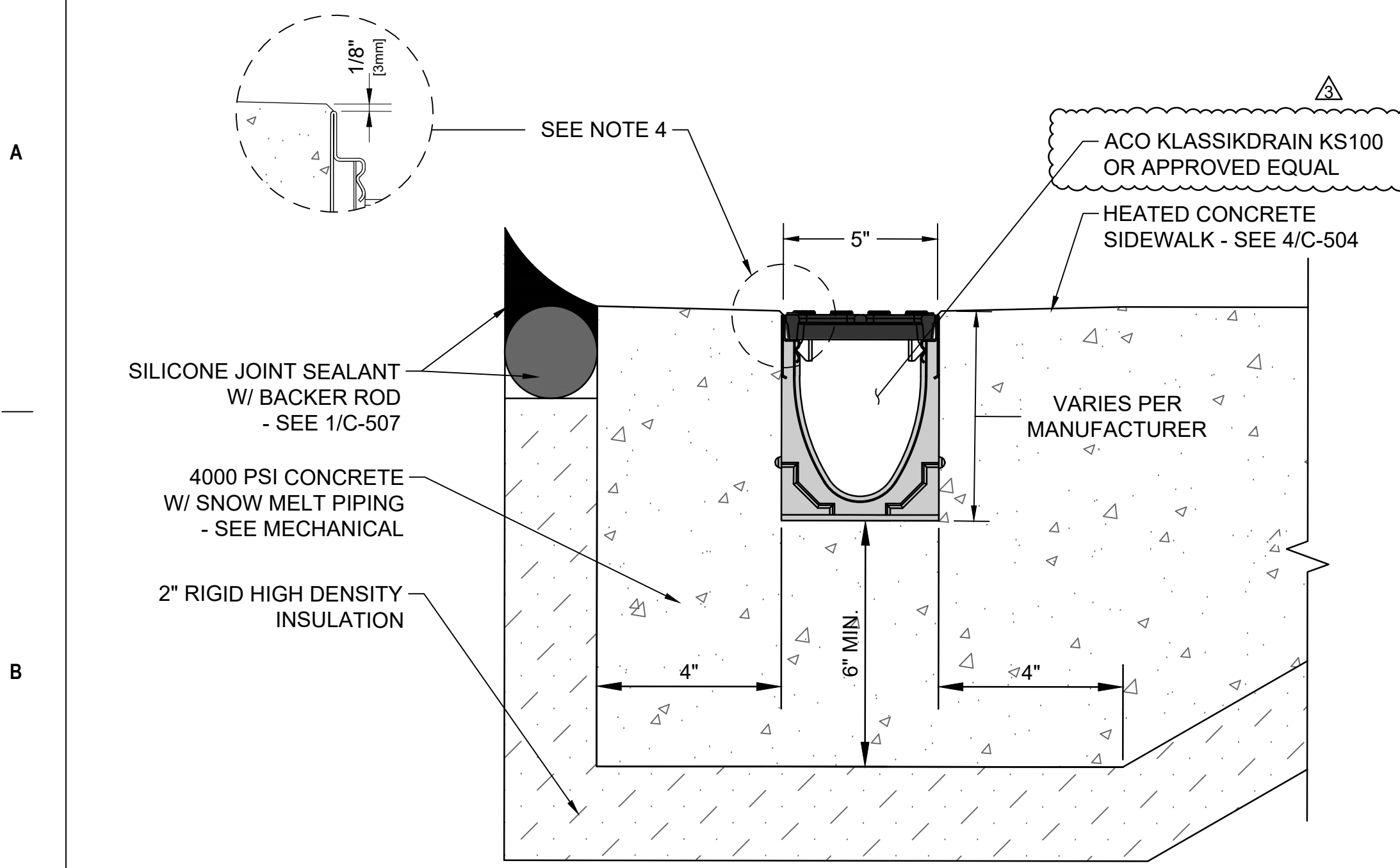
SIDEWALK OR PAVEMENT ISOLATION
JOINT WITH SILICONE SEALANTS



BUILDING ISOLATION JOINT

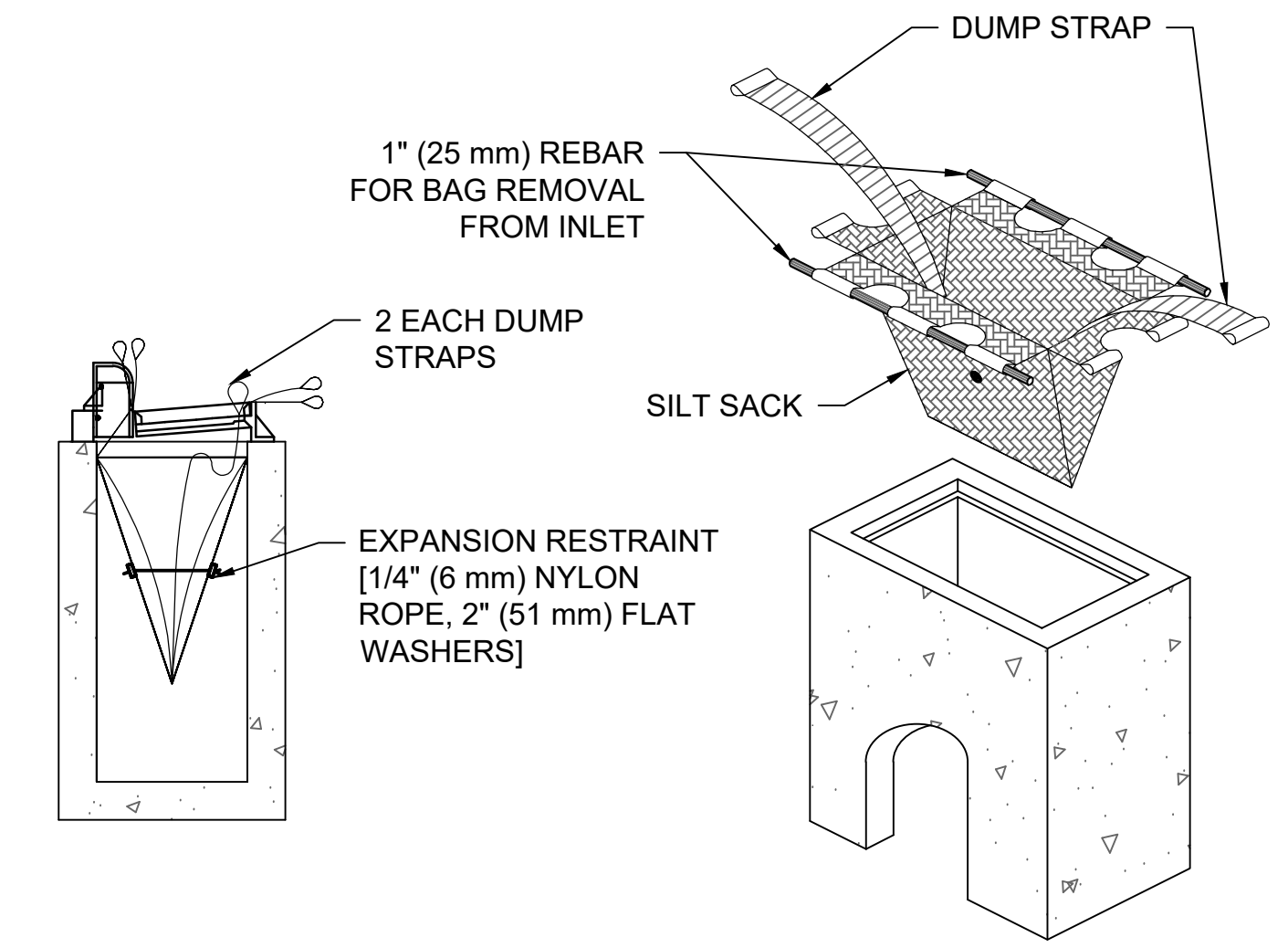
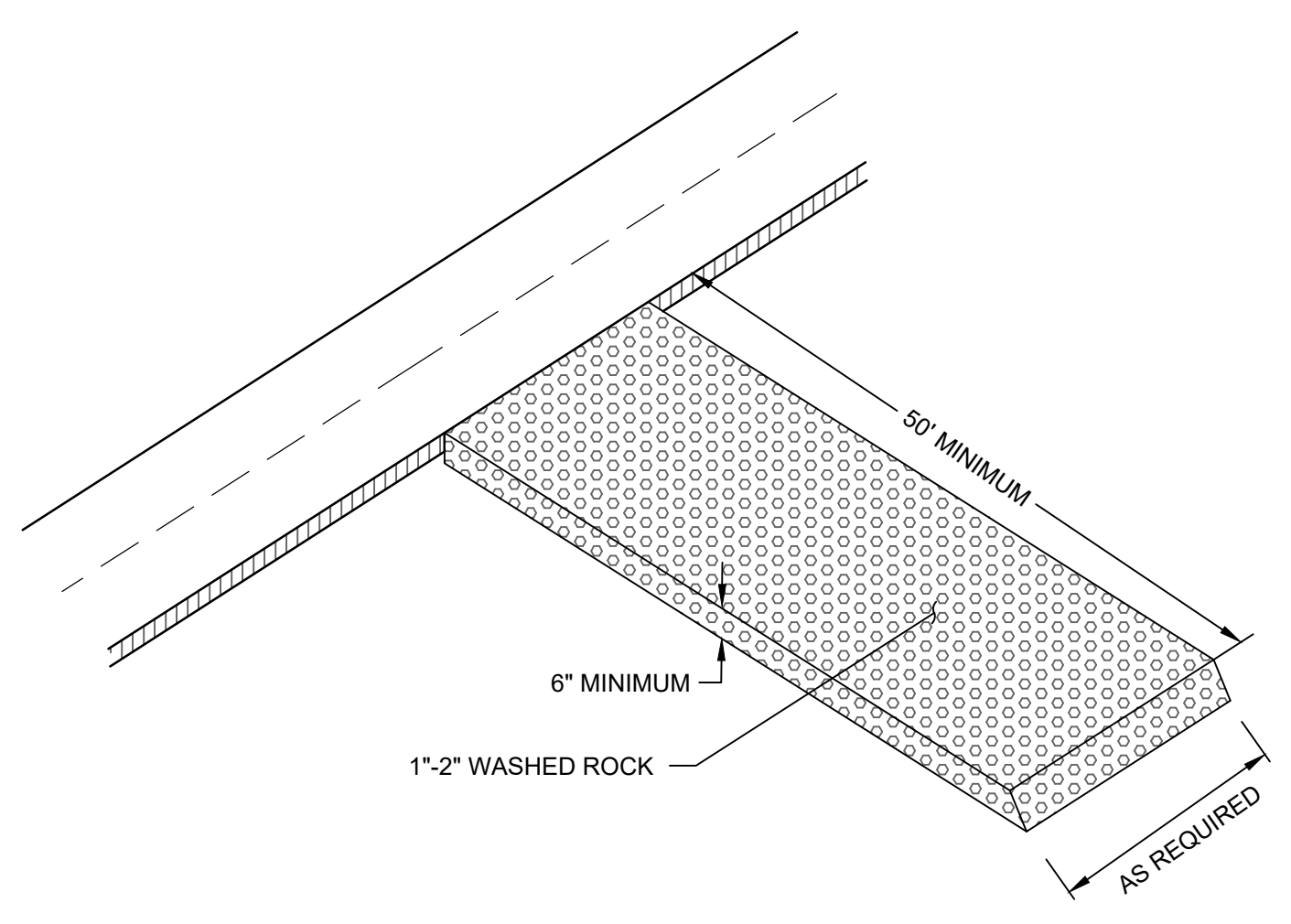
10 SIDEWALK OR PAVEMENT ISOLATION (EXPANSION) JOINT DETAILS
SCALE: NTS

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		CIVIL DETAILS		BID DOCUMENTS		CONSTRUCT NEW SPS		438-460	
Revisions:		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. Y. BROADMARKLE, PE DATE: 2025.02.14 LICENSE NO: 55409		U.S. Department of Veterans Affairs		Approved: Project Director SIOUX FALLS VA HEALTH CARE SYSTEM		FULLY SPRINKLERED		Location SIOUX FALLS, SOUTH DAKOTA		Building Number 5	
Date:												Issue Date 02/14/2025		Checked EB	
												Drawn AB		Drawing Number C-504	



NOTES:

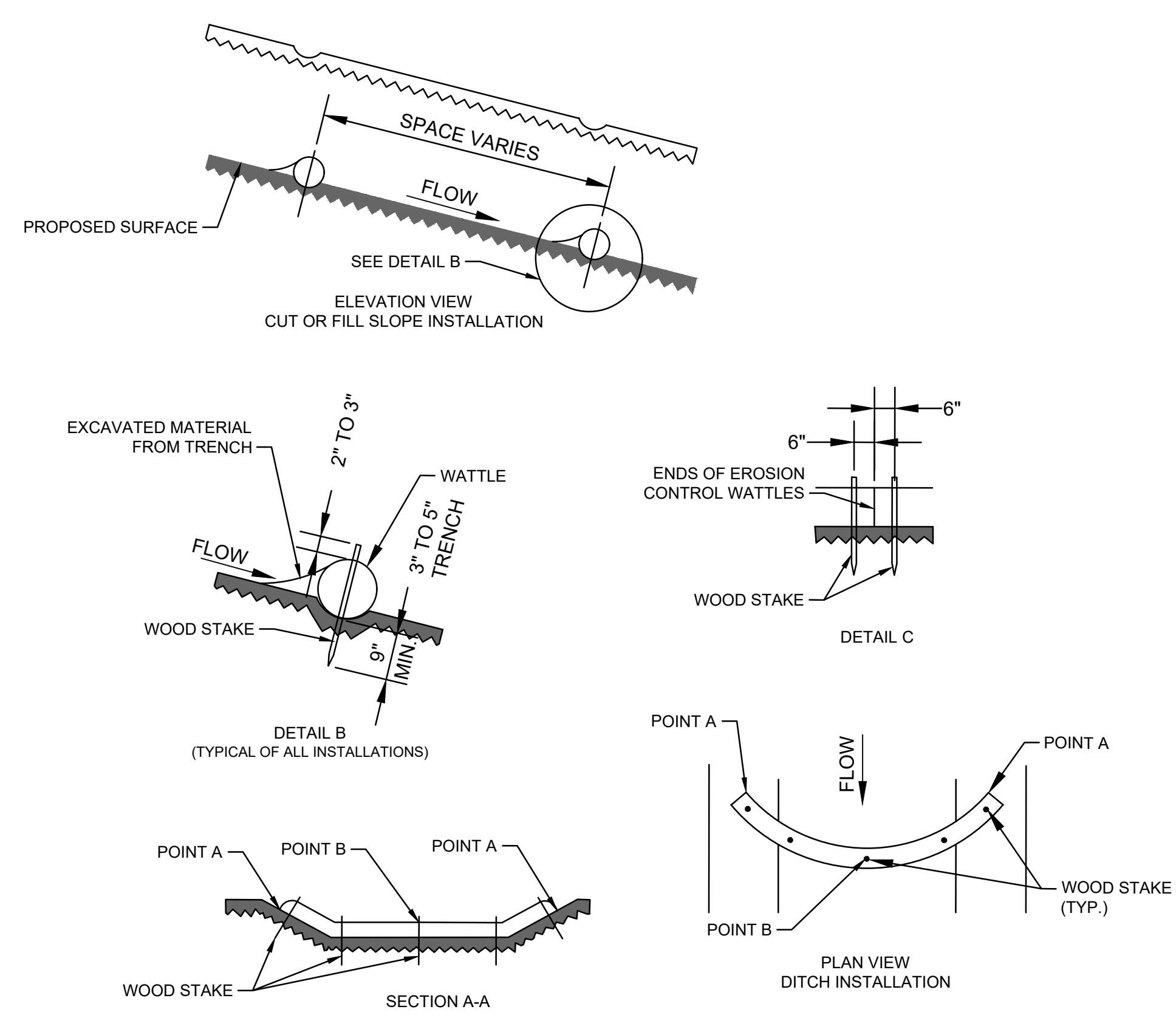
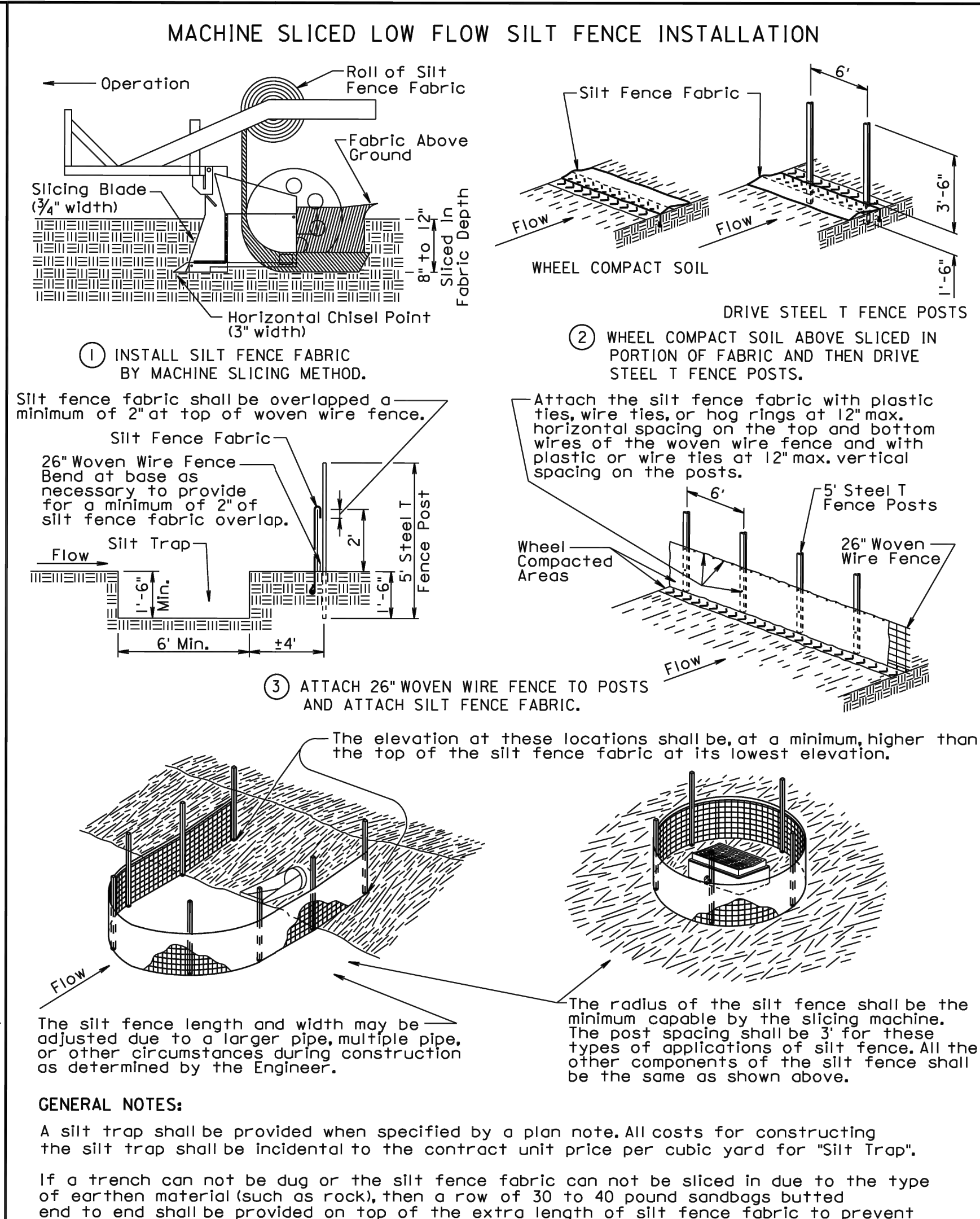
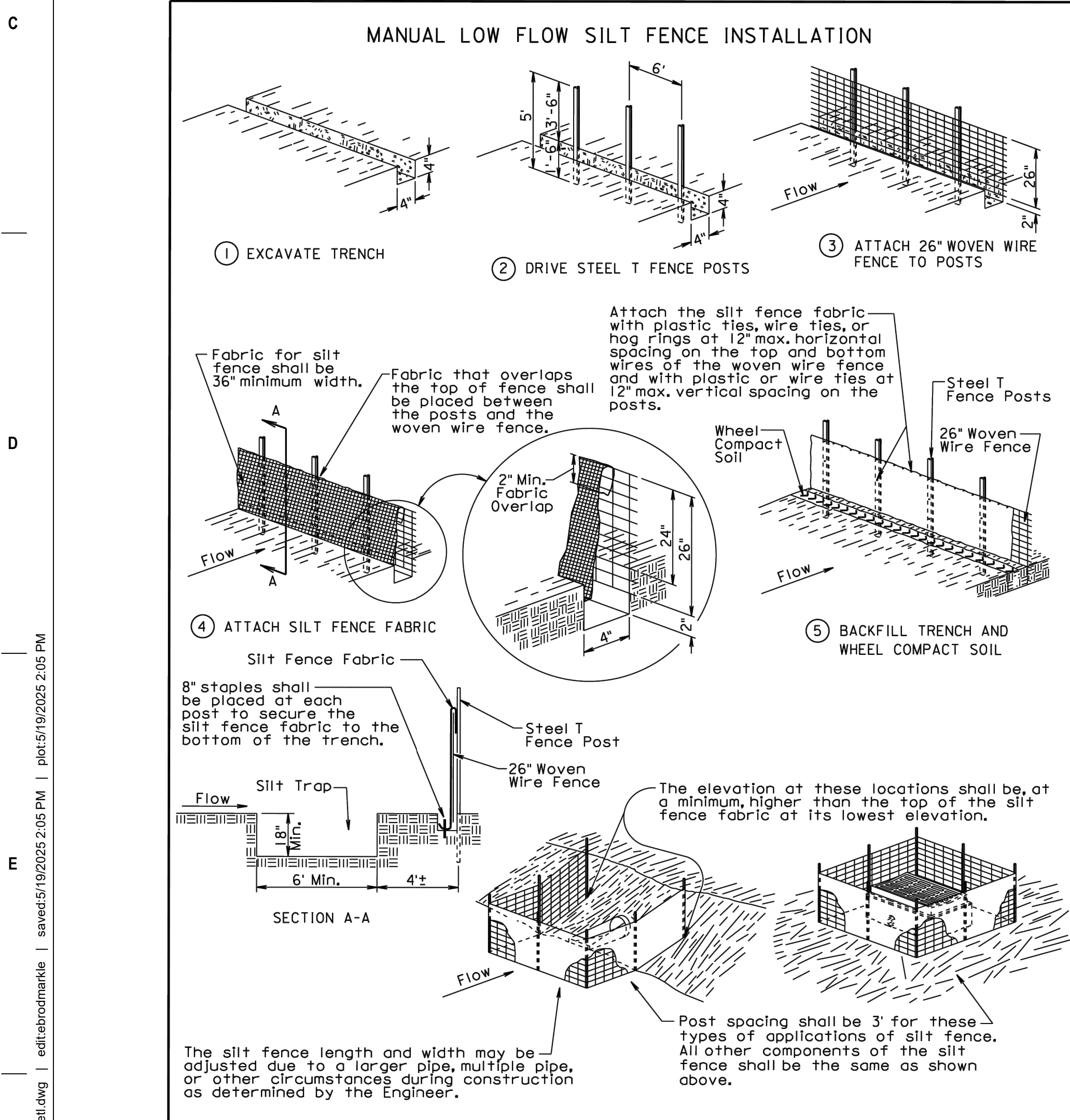
1. THE FINISHED LEVEL OF THE CONCRETE SURROUND MUST BE APPROX. 1/8" ABOVE THE TOP OF THE CHANNEL EDGE.
2. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
3. THE SYSTEM SHALL BE 4" NOMINAL INTERNAL WIDTH WITH A 5.1" OVERALL WIDTH AND A BUILT-IN SLOPE OF 0.5%. CHANNEL INVERT SHALL HAVE DEVELOPED "V" SHAPE. ALL CHANNELS SHALL BE INTERLOCKING WITH A MALE/FEMALE JOINT.
4. THE COMPLETE DRAINAGE SYSTEM SHALL BE BY ACO POLYMER PRODUCTS, INC. OR APPROVED EQUAL.
5. CHANNELS SHALL BE MANUFACTURED FROM POLYESTER RESIN POLYMER CONCRETE WITH AN INTEGRALLY CAST-IN STAINLESS STEEL EDGE RAIL. MINIMUM PROPERTIES OF POLYMER CONCRETE WILL BE AS FOLLOWS:
COMPRESSIVE STRENGTH: 14,000 PSI
FLEXURAL STRENGTH: 4,000 PSI
TENSILE STRENGTH: 1,500 PSI
WATER ABSORPTION: 0.07%
FROST PROOF: YES
DILUTE ACID AND ALKALI RESISTANT: YES
8117 SALT SPRAY TEST COMPLIANT: YES
6. FOLLOW SEALANT MANUFACTURER'S RECOMMENDATIONS FOR 2" WIDE JOINT.



1 TRENCH DRAIN DETAIL
SCALE: NTS

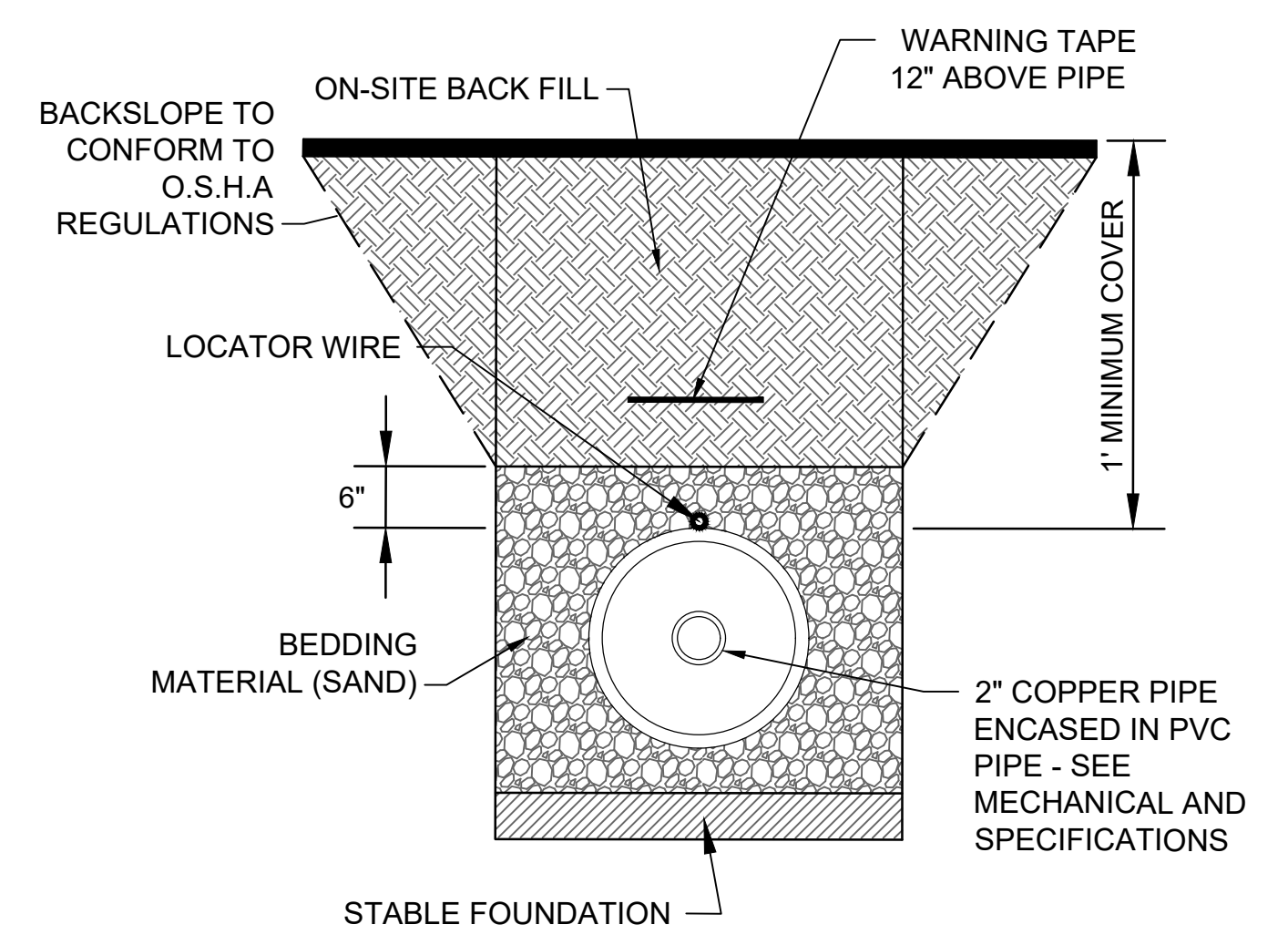
2 ROCK CONSTRUCTION ENTRANCE DETAIL
SCALE: NTS

3 INLET PROTECTION DETAIL
SCALE: NTS

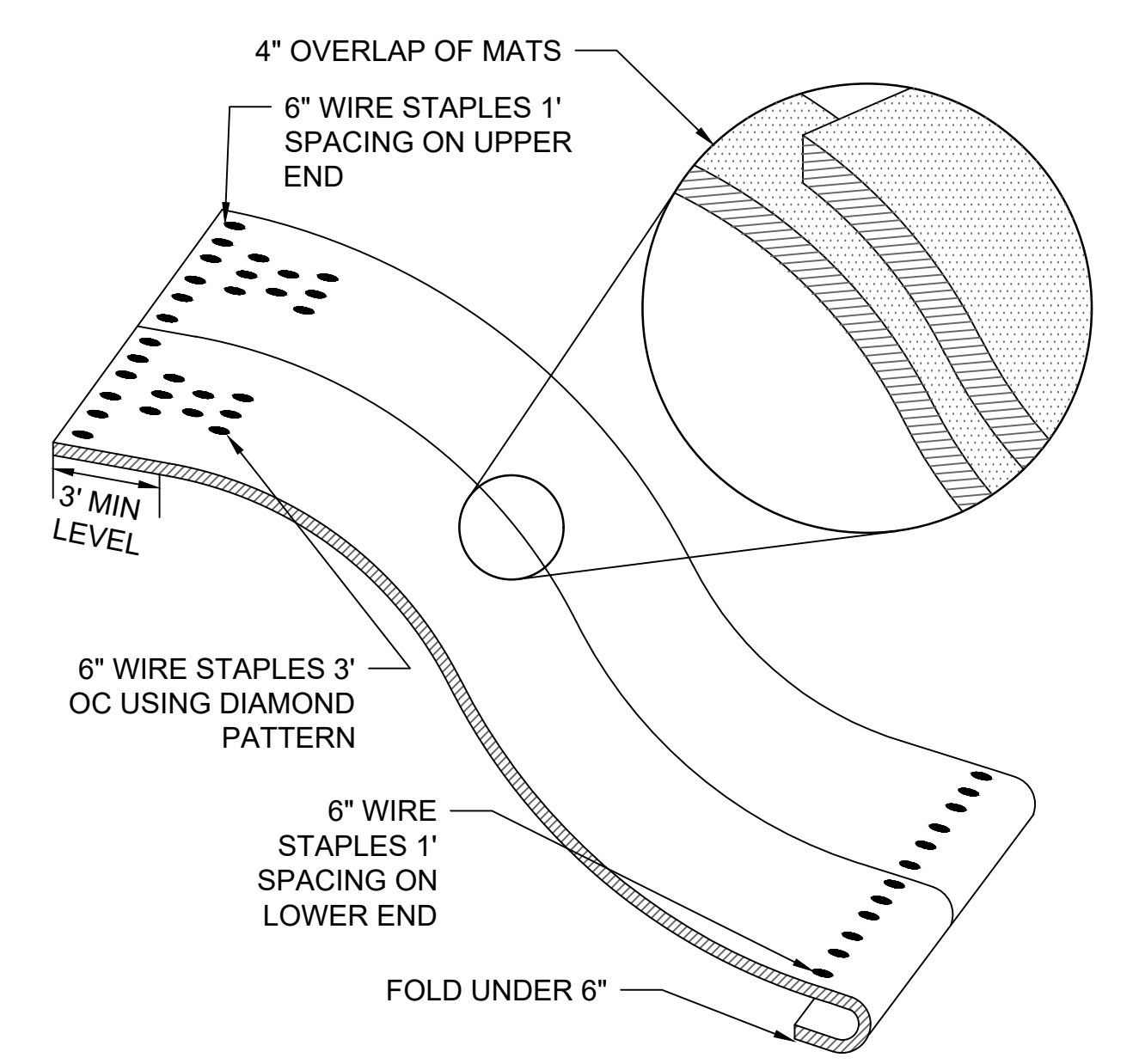


GENERAL NOTES:

1. AT CUT OR FILL SLOPE INSTALLATIONS WATTLES SHALL BE INSTALLED ALONG THE CONTOUR AND PERPENDICULAR TO THE WATER FLOW.
2. AT DITCH INSTALLATIONS, POINT "A" MUST BE HIGHER THAN POINT "B" SO THAT WATER FLOWS OVER THE WATTLE AND NOT AROUND THE ENDS.
3. THE CONTRACTOR SHALL DIG A 3" TO 5" TRENCH, INSTALL THE WATTLE TIGHTLY IN THE TRENCH SO THAT DAYLIGHT CAN NOT BE SEEN UNDER THE WATTLE, AND THEN COMPACT THE SOIL EXCAVATED FROM THE TRENCH AGAINST THE WATTLE ON THE UPHILL SIDE. SEE DETAIL B.
4. THE STAKES SHALL BE 1"X2" OR 2"X2" WOOD STAKES. HOWEVER, OTHER TYPES OF STAKES SUCH AS REBAR MAY BE USED. THE STAKES SHALL BE PLACED 6" FROM THE ENDS OF THE WATTLES AND THE SPACING OF THE STAKES ALONG THE WATTLES SHALL BE 3' TO 4'.
5. WHERE INSTALLING RUNNING LENGTHS OF WATTLES, THE CONTRACTOR SHALL BUTT THE SECOND WATTLE TIGHTLY AGAINST THE FIRST AND SHALL NOT OVERLAP THE ENDS. SEE DETAIL C.



6 OXYGEN LINE TRENCH DETAIL
SCALE: NTS



7 EROSION CONTROL BLANKET
SCALE: NTS

4 SILT FENCE DETAILS
SCALE: NTS

5 SEDIMENT CONTROL WATTLE
SCALE: NTS

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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		CIVIL DETAILS		BID DOCUMENTS		CONSTRUCT NEW SPS		438-460	
ADDENDUM #3		13605 1st Ave. N. #100 Plymouth, MN 55441		EDWIN J. Y. BROADMARKLE, PE		U.S. Department of Veterans Affairs		Approved: Project Director		FULLY SPRINKLERED		Location		Building Number	
Revisions:		P 763.412.4000 F 763.412.4090 ae-mn.com		DATE: 2025.02.14 LICENSE NO: 55409		SIoux FALLS VA HEALTH CARE SYSTEM		02/14/2025		Checked		SIoux FALLS, SOUTH DAKOTA		5	
Date:		Anderson Engineering of Minnesota, LLC Proj # 16584						Drawn		EB		Issue Date		Drawing Number	
										AB		02/14/2025		C-506	

A

B

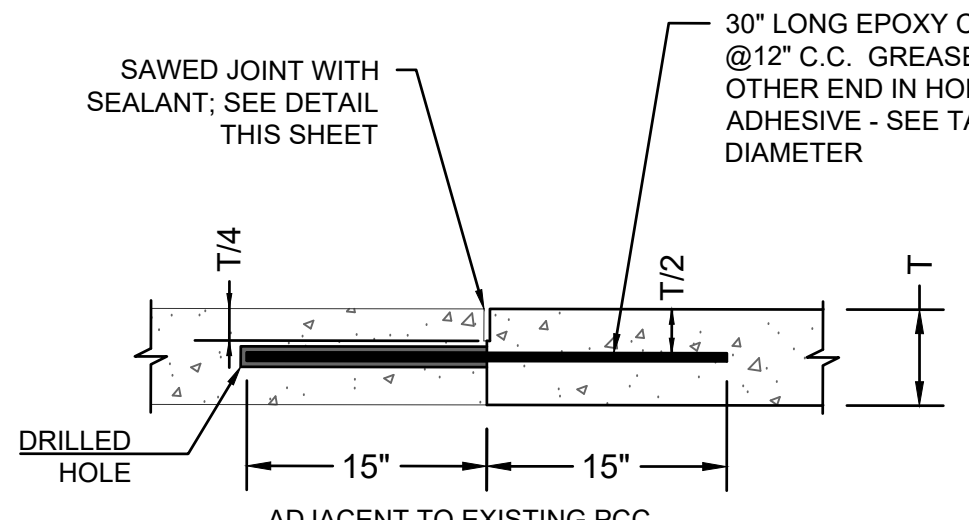
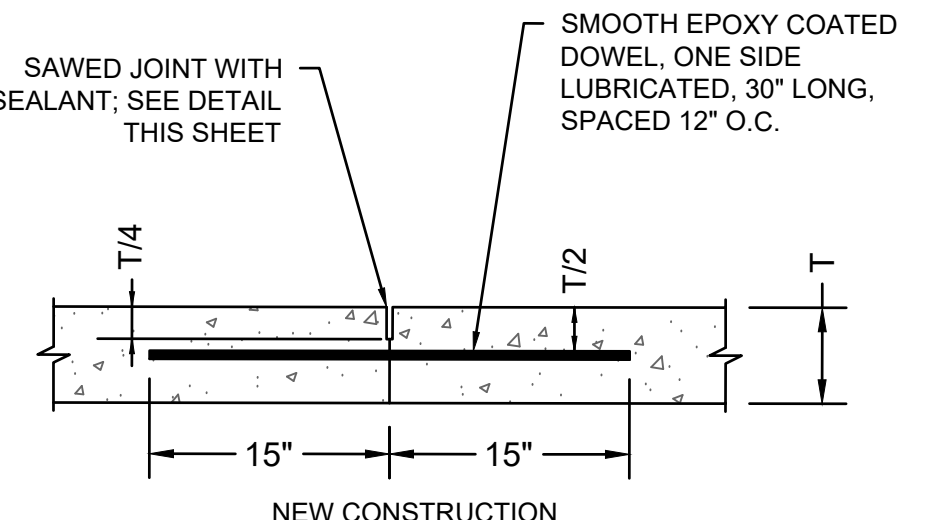
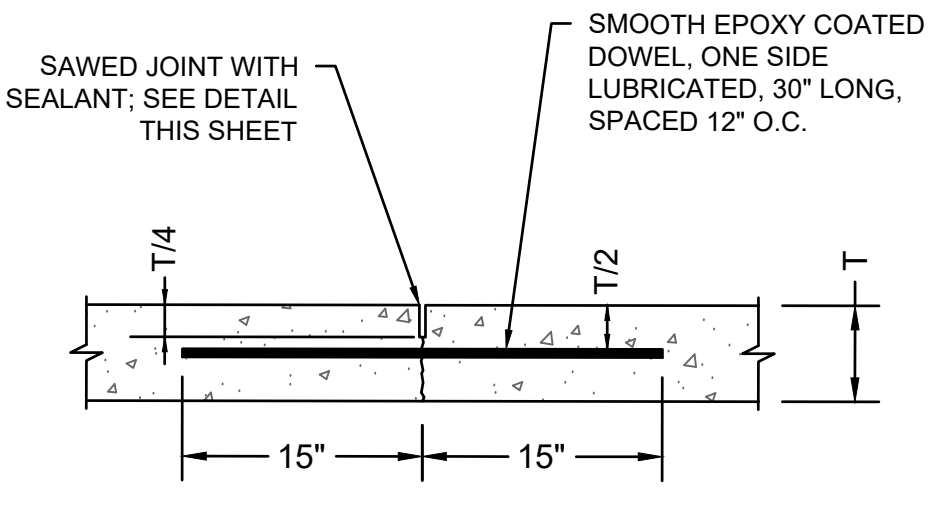
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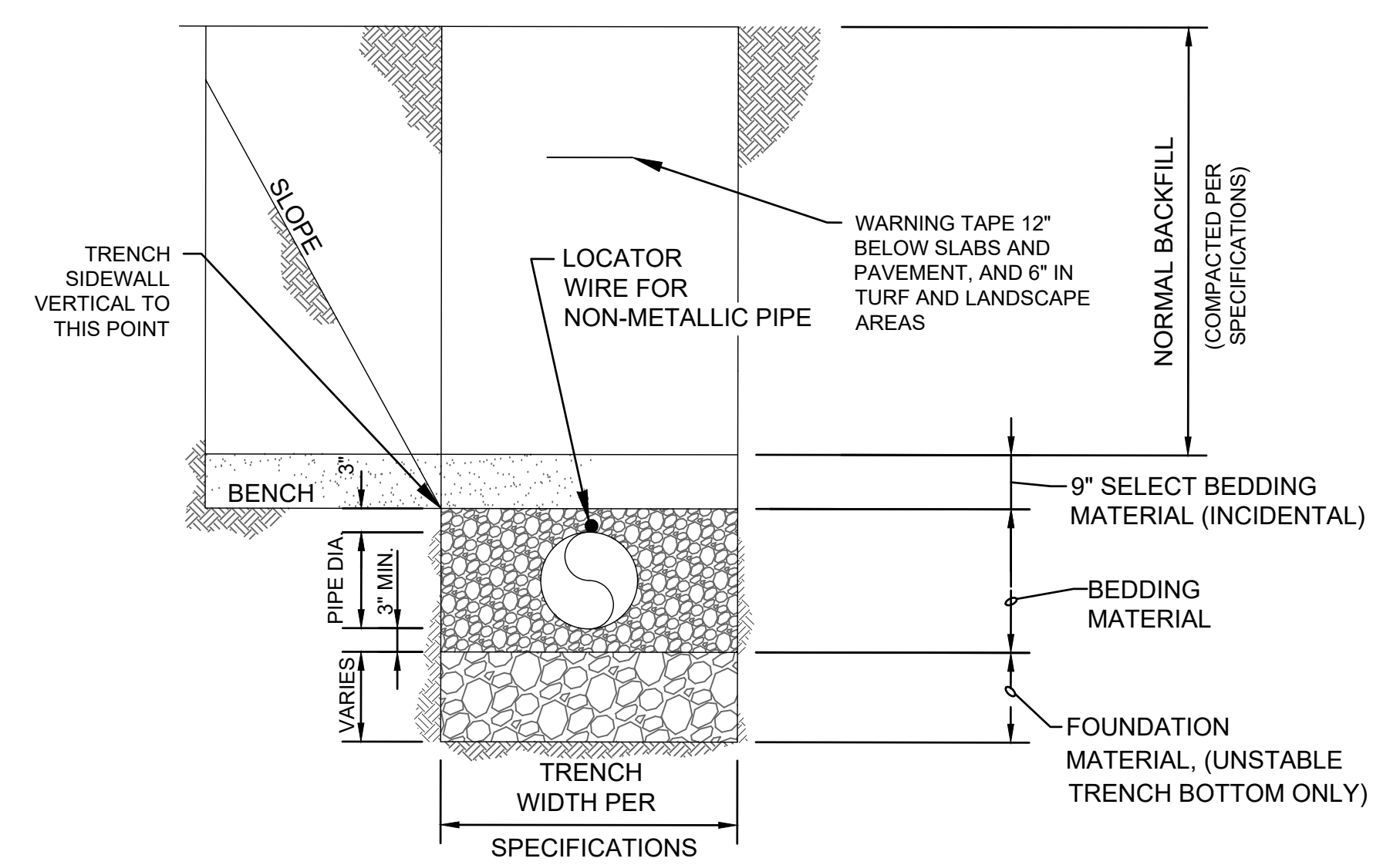
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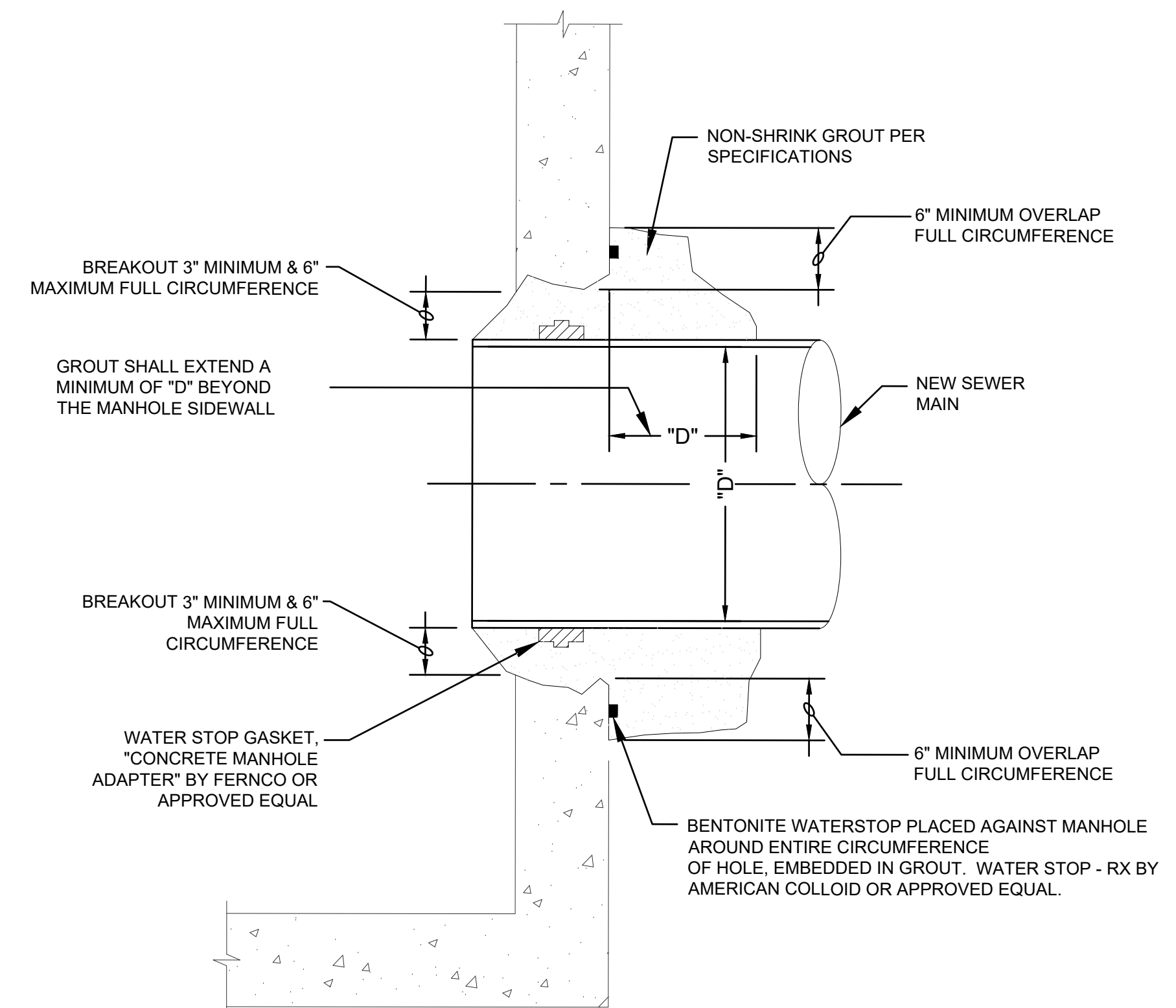
NOTE:
IF EXISTING PCC IS < 6", USE
ISOLATION JOINT DETAIL

NOTE:
1. ALL WORK SHALL BE DONE IN
ACCORDANCE WITH ACI 308R-08.
2. DOWEL BAR ASSEMBLY IS RECOMMENDED
TO KEEP DOWELS IN PROPER ALIGNMENT.
3. DOWELS SHALL NOT BE PLACED CLOSER
THAN 12" TO A JOINT INTERSECTION.

PAVEMENT THICKNESS (IN.)	DOWEL DIAMETER (IN.)
6	3/4"
7	1
>8	1 1/4

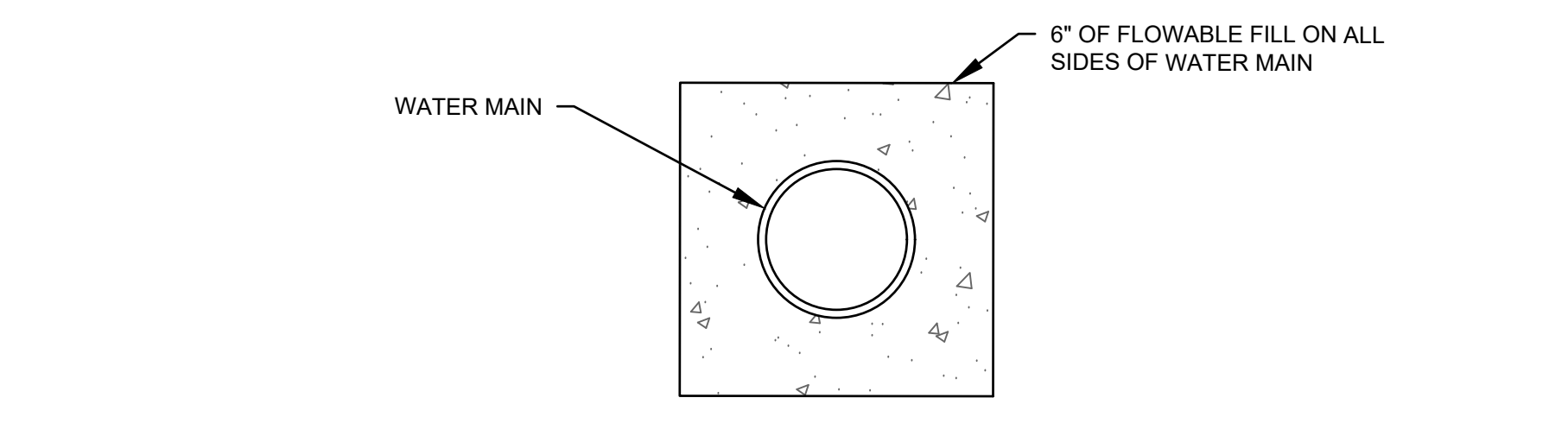


2 STANDARD PIPE TRENCH DETAIL
SCALE: NTS

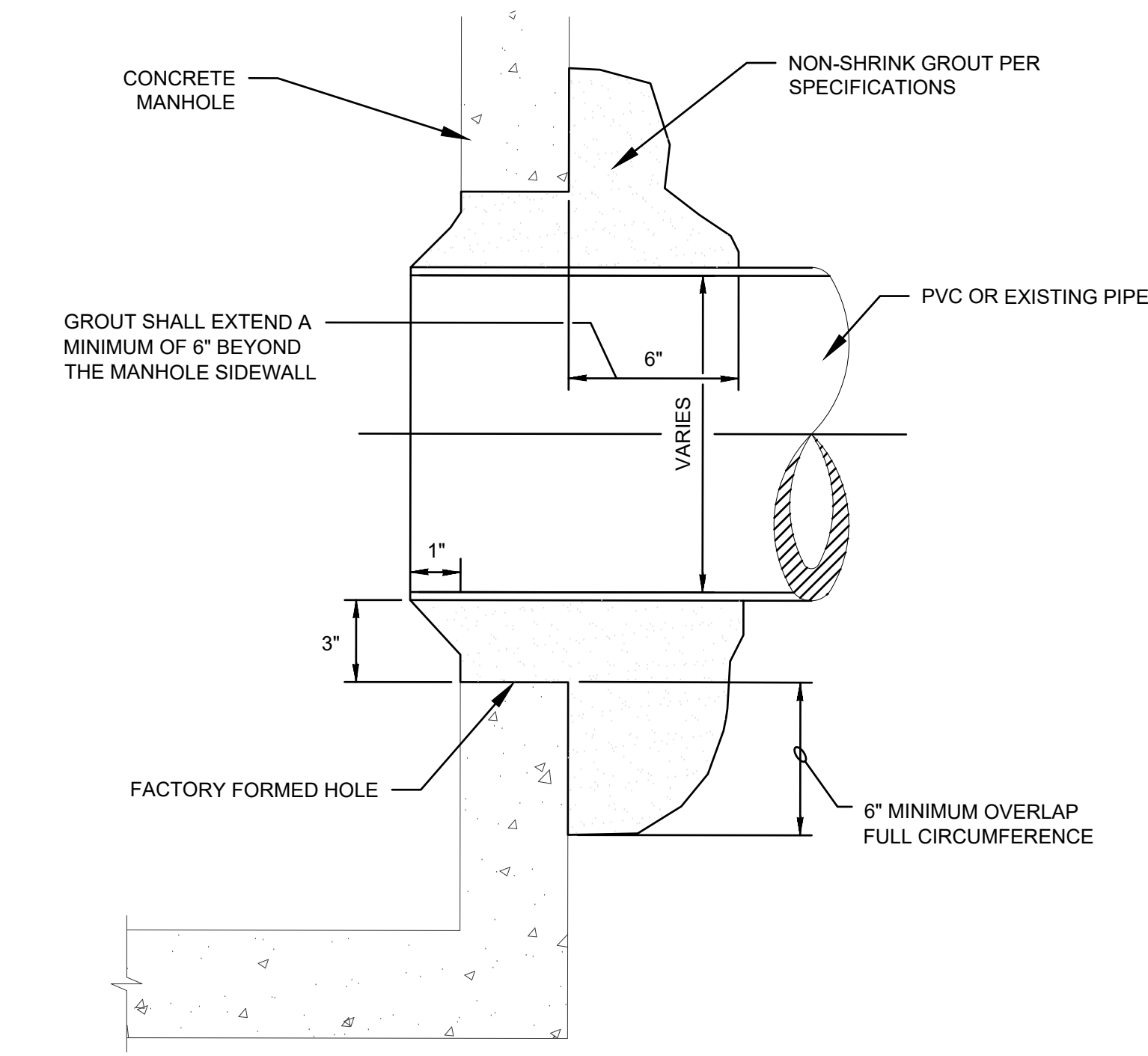


3 PIPE CONNECTION TO SANITARY MANHOLE
SCALE: NTS

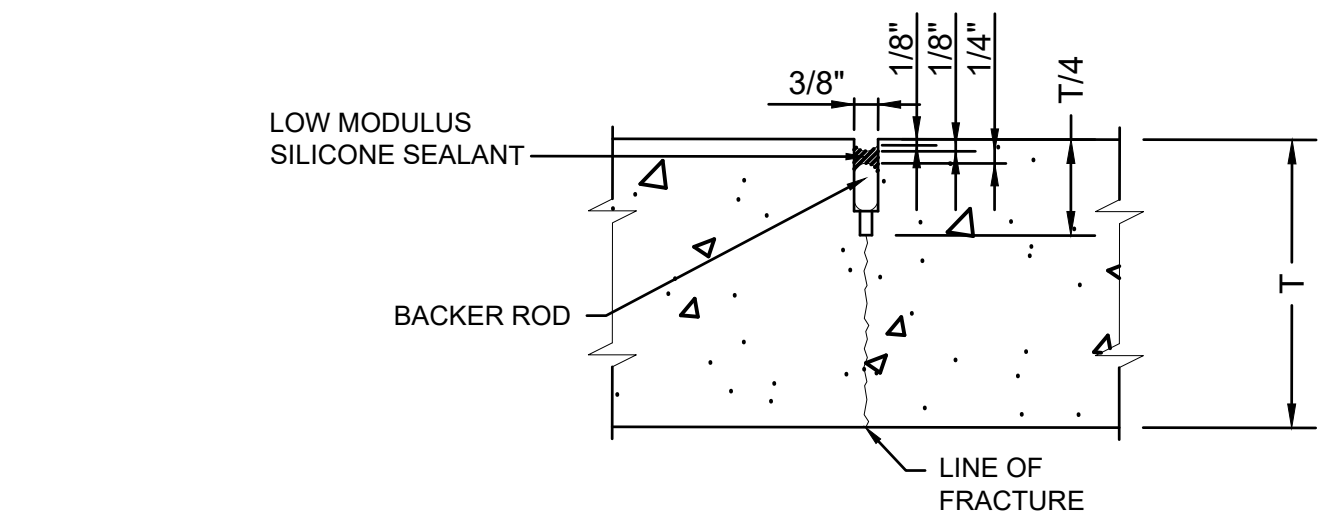
NOTE:
AS AN ALTERNATIVE, THE CONTRACTOR MAY CORE THE EXISTING MANHOLE AND INSTALL A BOOT-TYPE FLEXIBLE CONNECTOR CONSISTING OF A RUBBER GASKET OR BOOT, METAL EXPANSION RING AND DOUBLE METAL TAKE-UP CLAMPS, AS MANUFACTURED BY PRESS SEAL GASKET CORPORATION, OR PREAPPROVED EQUAL. A STAINLESS STEEL "POWER SLEEVE" SHALL BE SUPPLIED FOR CONNECTING THE BOOT TO THE MANHOLE. THE BOOTS SHALL BE TYPE RX AS MANUFACTURED BY PRESS SEAL GASKET CORPORATION OR APPROVED EQUAL. RUBBER BOOTS AND GASKET MATERIAL SHALL MEET OR EXCEED ASTM C-923.



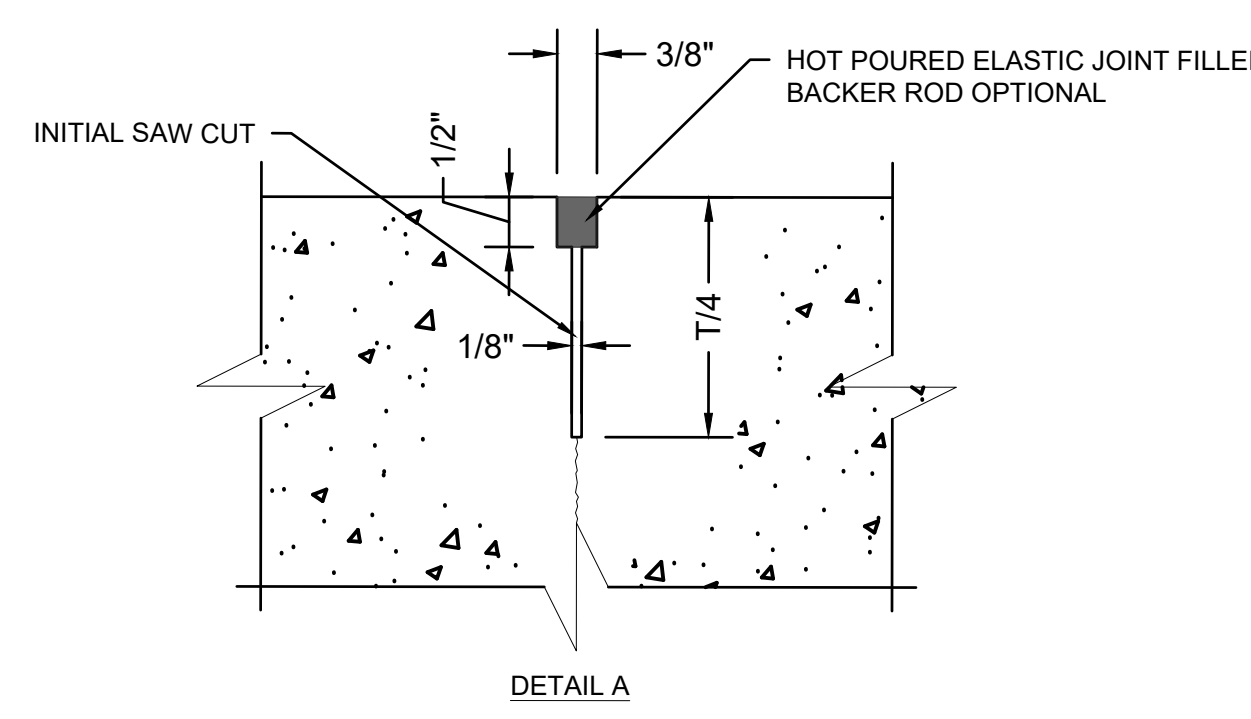
7 ENCASEMENT DETAIL
SCALE: NTS



6 PIPE CONNECTION TO STORM MANHOLE
SCALE: NTS

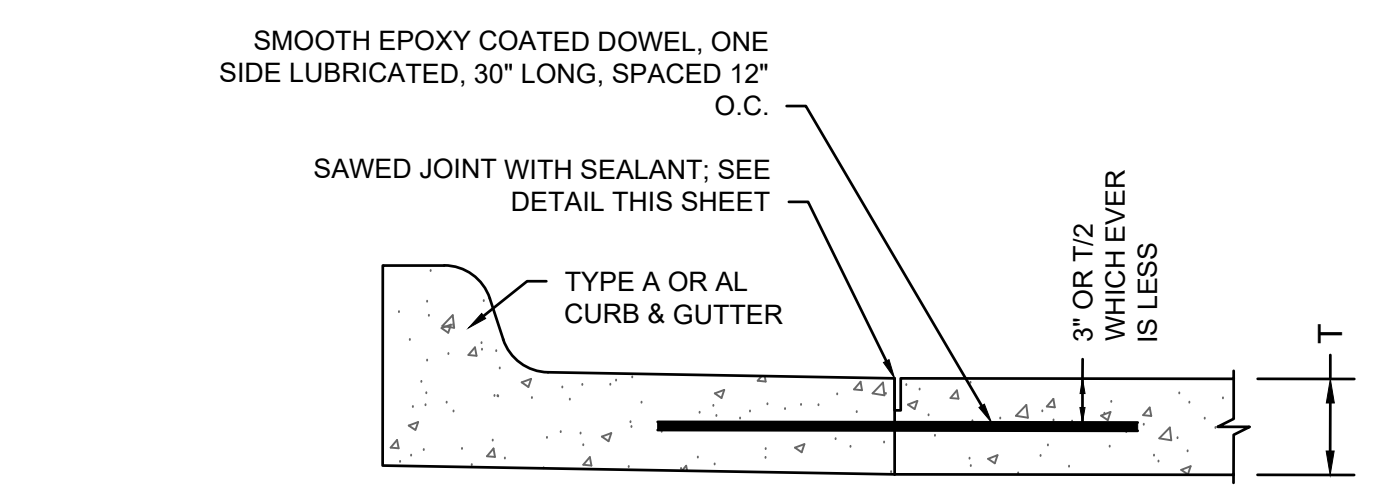


NOTE:
THE FIRST SAW CUT TO CONTROL CRACKING SHALL BE A MINIMUM OF 1/4 THE DEPTH OF THE PAVEMENT. ADDITIONAL SAWING FOR WIDENING THE SAW CUT TO PROVIDE THE WIDTH FOR THE INSTALLATION OF THE LOW MODULUS SILICONE JOINT SEALANT WILL BE NECESSARY. BACKER ROD SHALL BE NON-MOISTURE ABSORBING RESILIENT MATERIAL APPROXIMATELY 25% LARGER IN DIAMETER THAN THE WIDTH OF THE JOINT TO BE SEALED.



SAWED JOINT W/ BACKER ROD & SILICONE SEAL
SAWED JOINT WITH HOT POURED SEALANT

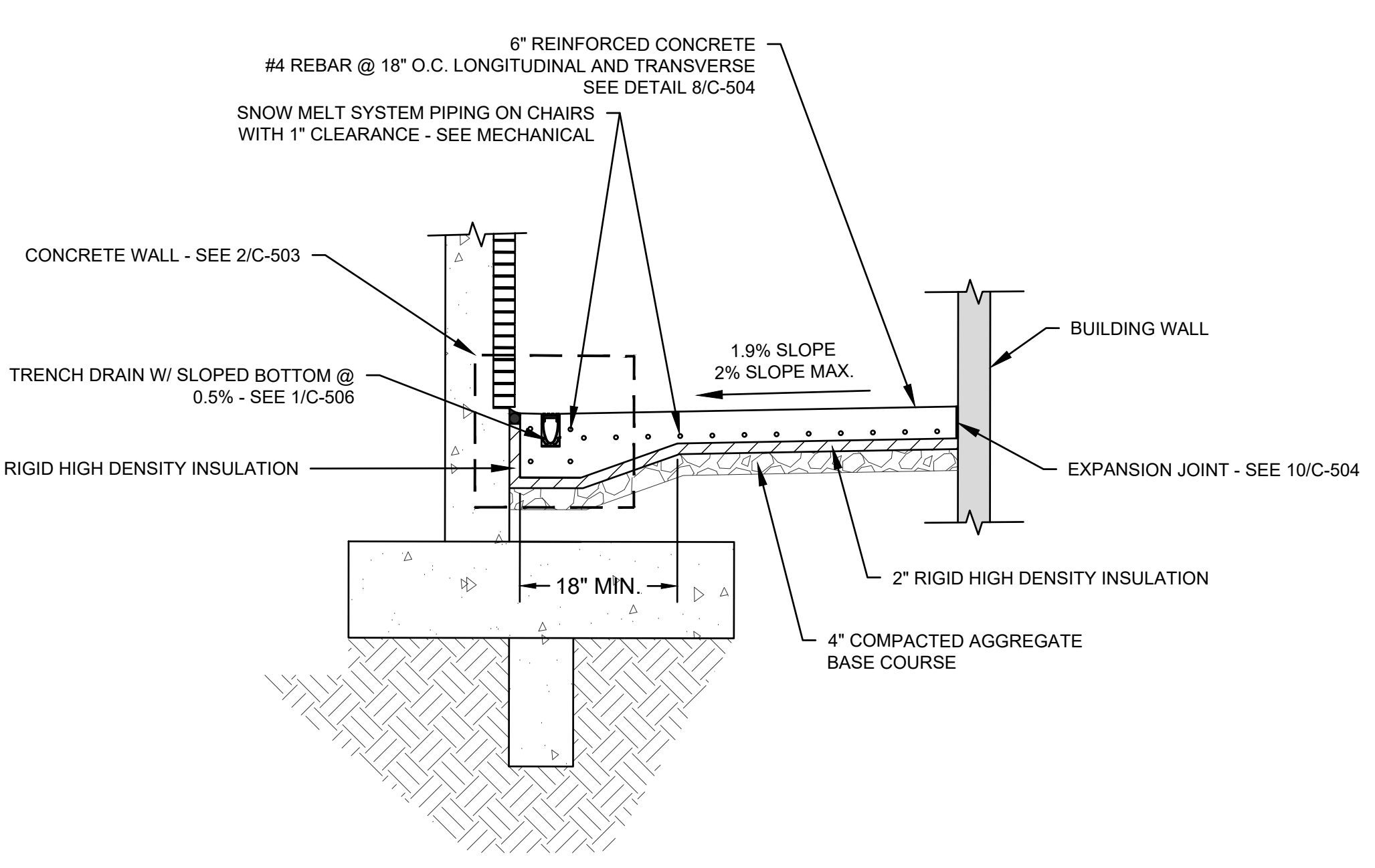
PAVEMENT CONTRACTION JOINT DETAILS
N.T.S.



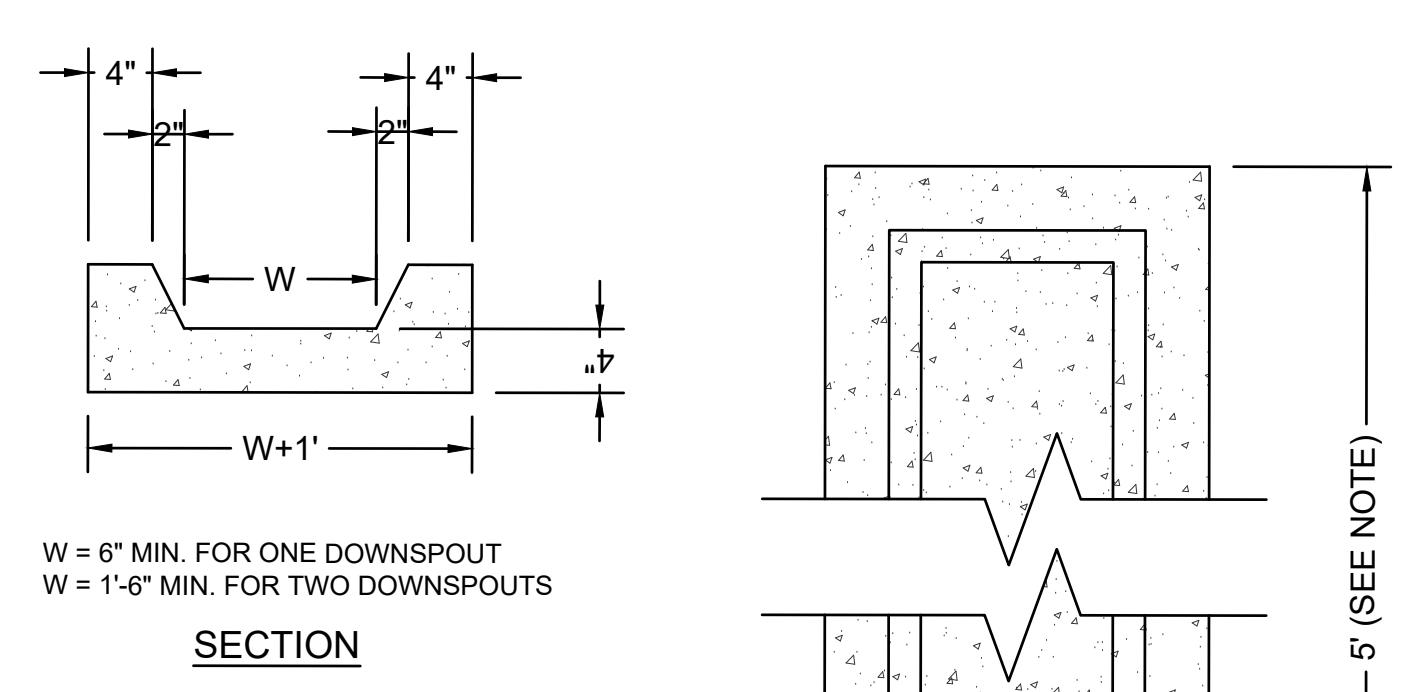
NOTES:
1. SLOPE GRADE AS REQUIRED FOR DRAINAGE.
2. JOINTS IN PAVEMENT TO EXTEND THROUGH CURB.
3. SEE CURB DESIGN FOR REINFORCING DETAILS. DISCONTINUE REINFORCING AT JOINTS.
4. CURB MAY BE PLACED MONOLITHICALLY WITH THE ADJACENT PAVEMENT AND A CONTRACTION JOINT SAWED IN LOCATION OF CONSTRUCTION JOINT.

CURB CONSTRUCTION JOINT
N.T.S.

1 JOINT DETAILS
SCALE: NTS



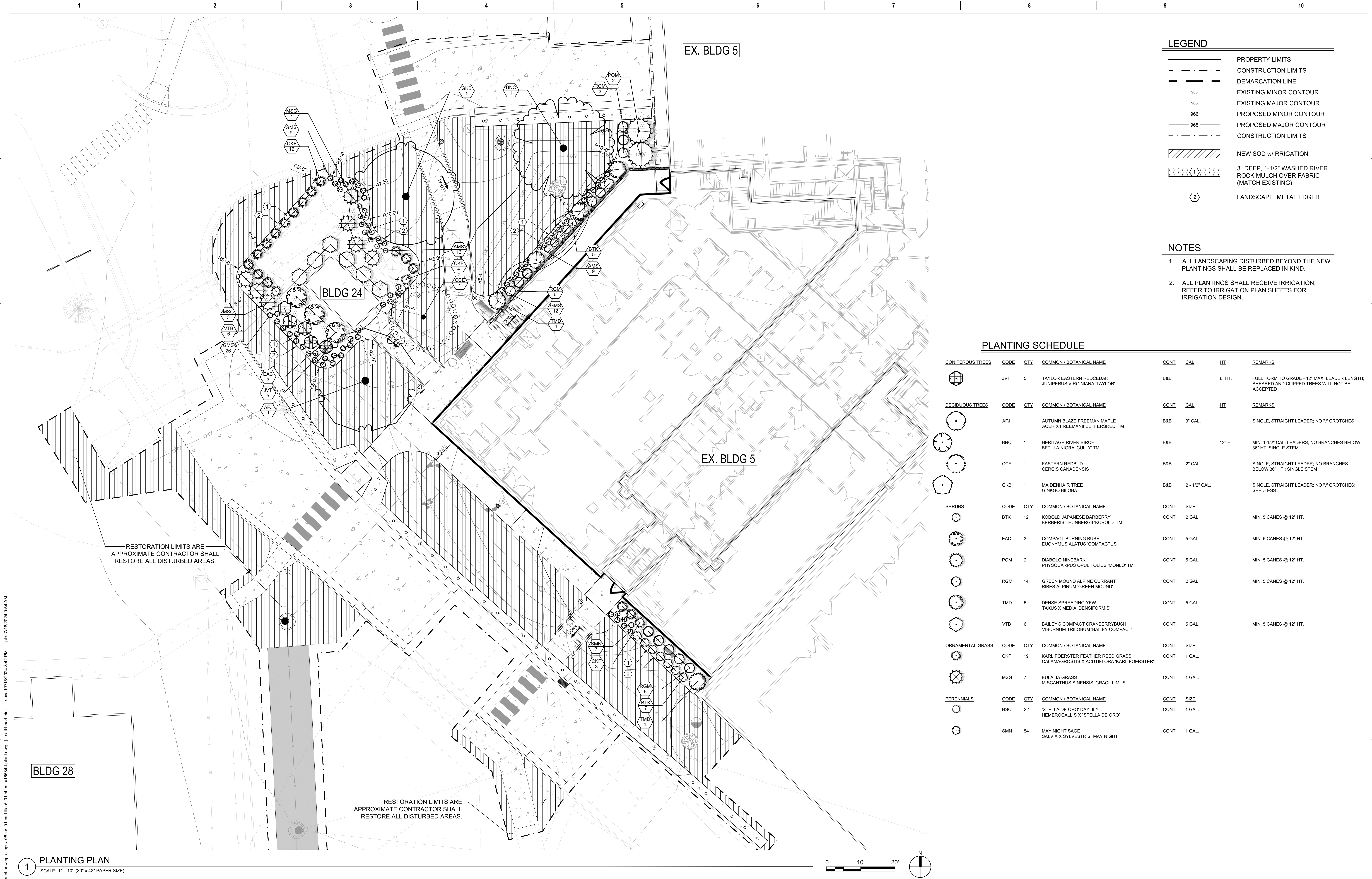
4 HEATED SIDEWALK DETAIL
SCALE: NTS



NOTE:
USE 5' LONG PRECAST SPLASH BLOCK WHERE SPACE ALLOWS.
IN LOCATIONS WITH LIMITED SPACE, USE A MINIMUM OF 3' LONG PRECAST SPLASH BLOCK.

5 PRECAST SPLASH BLOCK
SCALE: NTS

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		CIVIL DETAILS		BID DOCUMENTS		CONSTRUCT NEW SPS		438-460	
				ECdesign		13605 1st Ave. N. #100 Plymouth, MN 55441		EDWIN J. Y. BROADMARKLE, PE		U.S. Department of Veterans Affairs		Approved: Project Director		FULLY SPRINKLERED		Location		Building Number	
						P 763.412.4000 F 763.412.4090 ae-mn.com		DATE: 2025.02.14 LICENSE NO: 55409				SIoux FALLS VA HEALTH CARE SYSTEM				SIoux FALLS, SOUTH DAKOTA		5	
						Anderson Engineering of Minnesota, LLC Proj # 16584										Issue Date		Drawing Number	
																02/14/2025		C-507	
																Checked			
																EB			
																Drawn			
																AB			



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

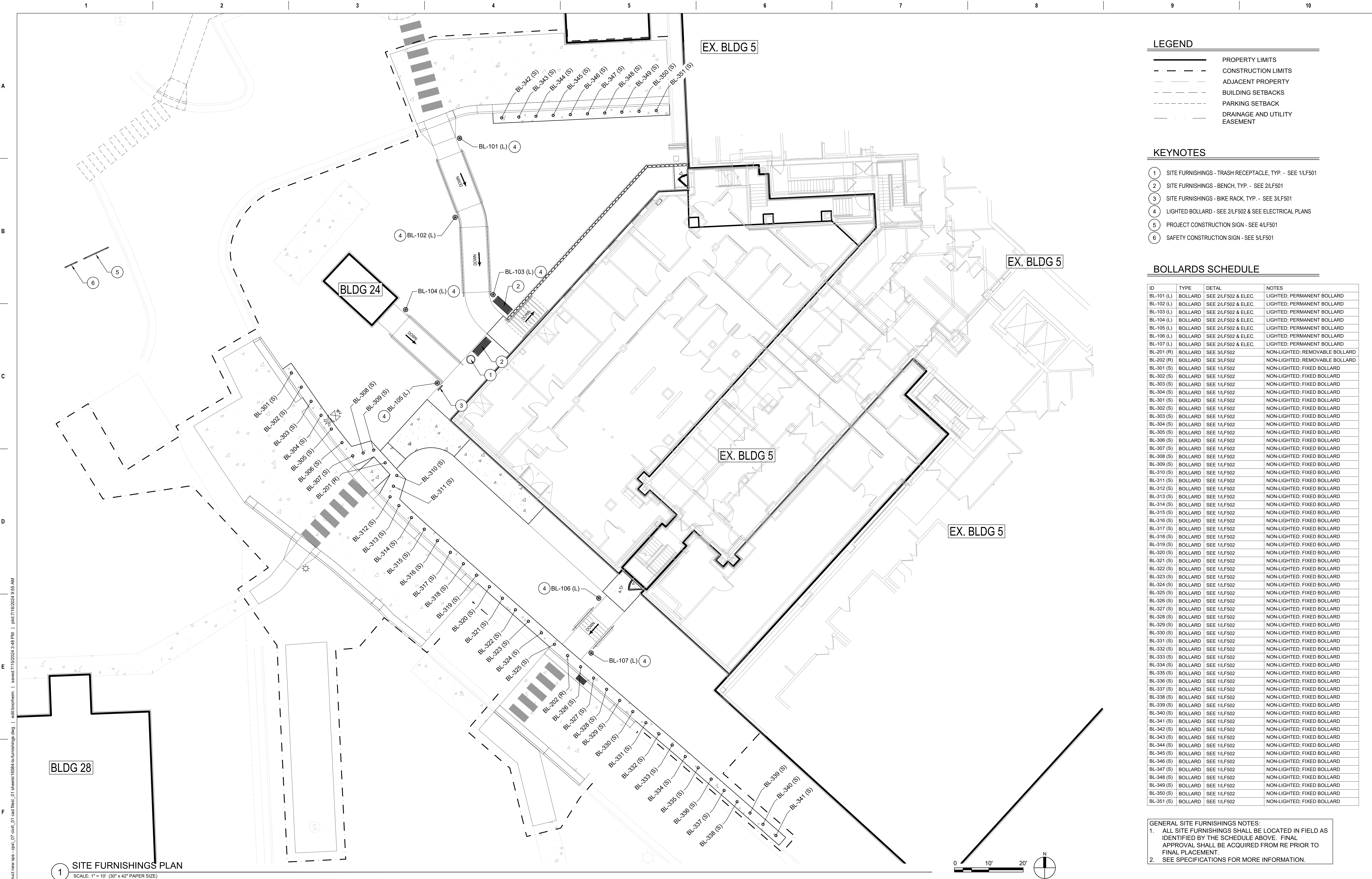
- NOTES
- ALL LANDSCAPING DISTURBED BEYOND THE NEW PLANTINGS SHALL BE REPLACED IN KIND.
 - ALL PLANTINGS SHALL RECEIVE IRRIGATION; REFER TO IRRIGATION PLAN SHEETS FOR IRRIGATION DESIGN.






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 ALPIMUM '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.		

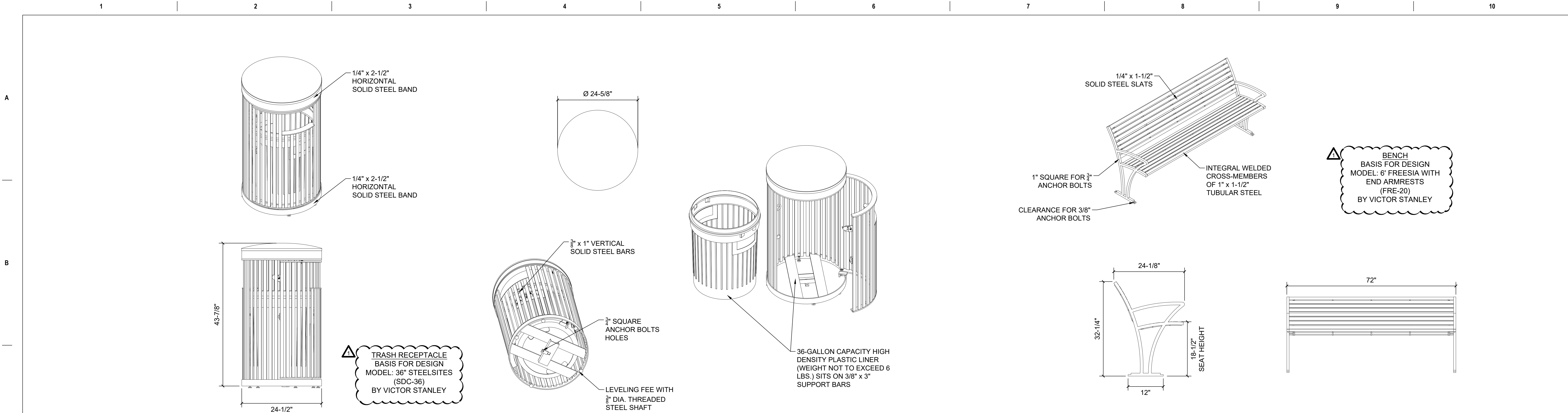
1 PLANTING PLAN
SCALE: 1" = 10' (30" x 42" PAPER SIZE)

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	
Revisions:		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	
Date:								SIoux FALLS VA HEALTH CARE SYSTEM				SIoux FALLS, SOUTH DAKOTA		5	
												Issue Date		Drawing Number	
												02/14/2025		LP101	
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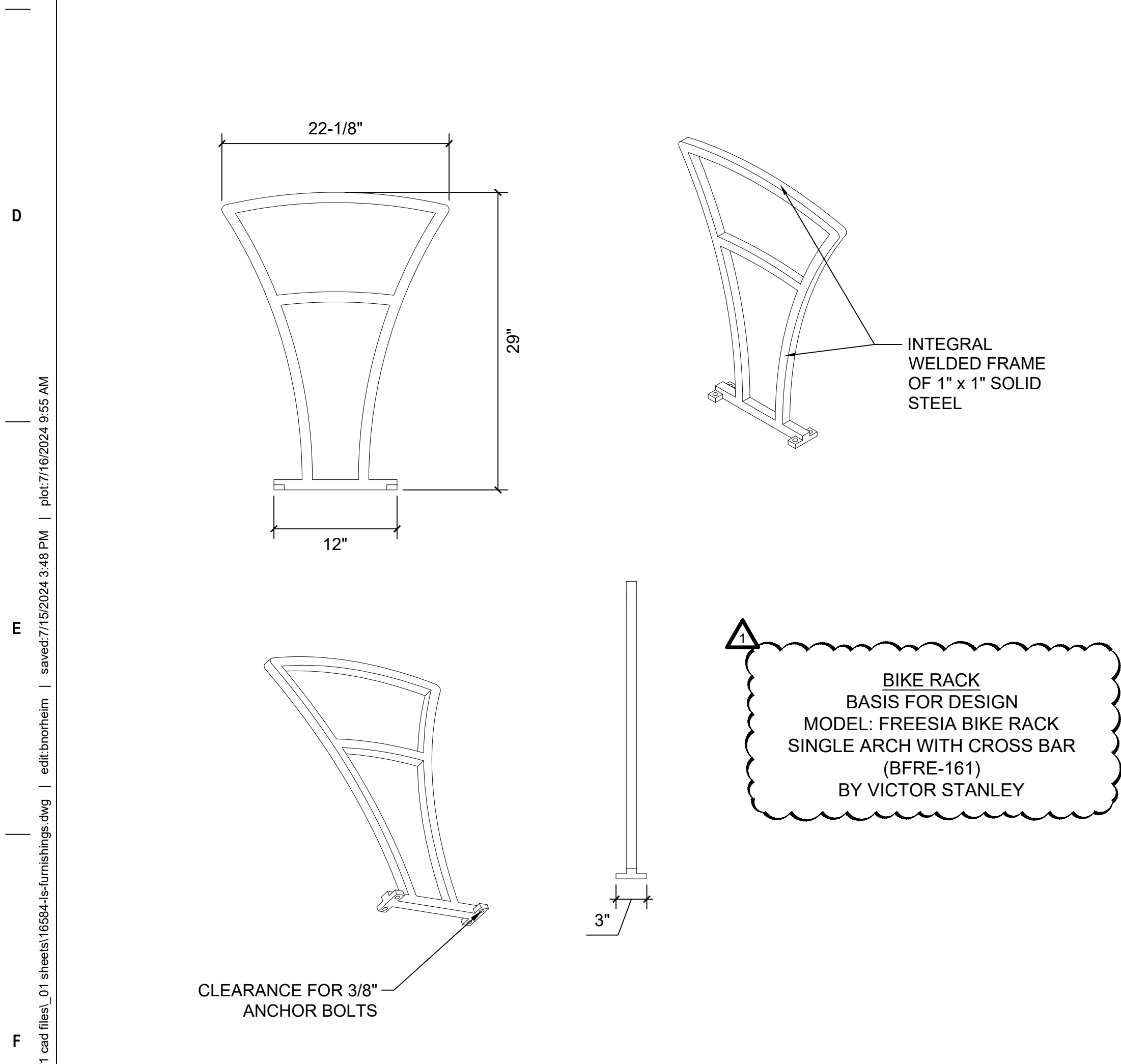
<div>1 SITE FURNISHINGS PLAN SCALE: 1" = 10' (30" x 42" PAPER SIZE)</div>		<div>CONSULTANTS</div> <div></div>		<div>ARCHITECT/ENGINEER OF RECORD</div> <div><p>13605 1st Ave. N. #100 Plymouth, MN 55441 P 763.412.4000 F 763.412.4090 ae-mn.com Anderson Engineering of Minnesota, LLC Proj # 16584</p></div>		<div>STAMP</div> <div></div>		<div>Office of Construction and Facilities Management</div> <div> U.S. Department of Veterans Affairs</div>		<div>Drawing Title</div> <div>SITE FURNISHINGS PLAN</div> <div>Approved: Project Director</div> <div>SIoux FALLS VA HEALTH CARE SYSTEM</div>		<div>Phase</div> <div>BID DOCUMENTS</div> <div>FULLY SPRINKLERED</div>		<div>Project Title</div> <div>CONSTRUCT NEW SPS</div> <div>Location</div> <div>SIoux FALLS, SOUTH DAKOTA</div> <div>Issue Date</div> <div>02/14/2025</div> <div>Checked</div> <div>CC</div> <div>Drawn</div> <div>JF</div>		<div>Project Number</div> <div>438-460</div> <div>Building Number</div> <div>5</div> <div>Drawing Number</div> <div>LF101</div>	
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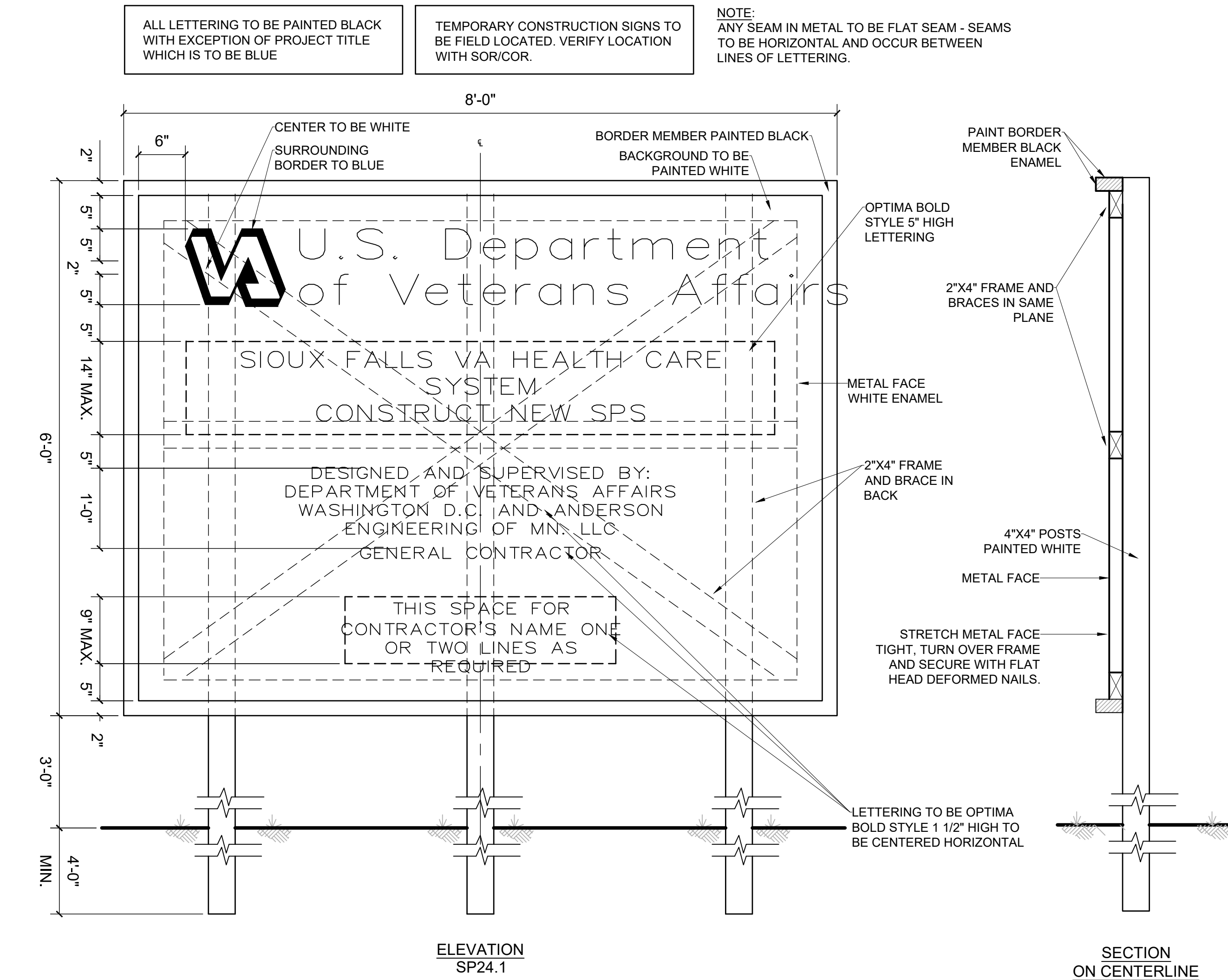


1 TRASH RECEPTACLE (OWNER PROVIDED; CONTRACTOR INSTALLED)
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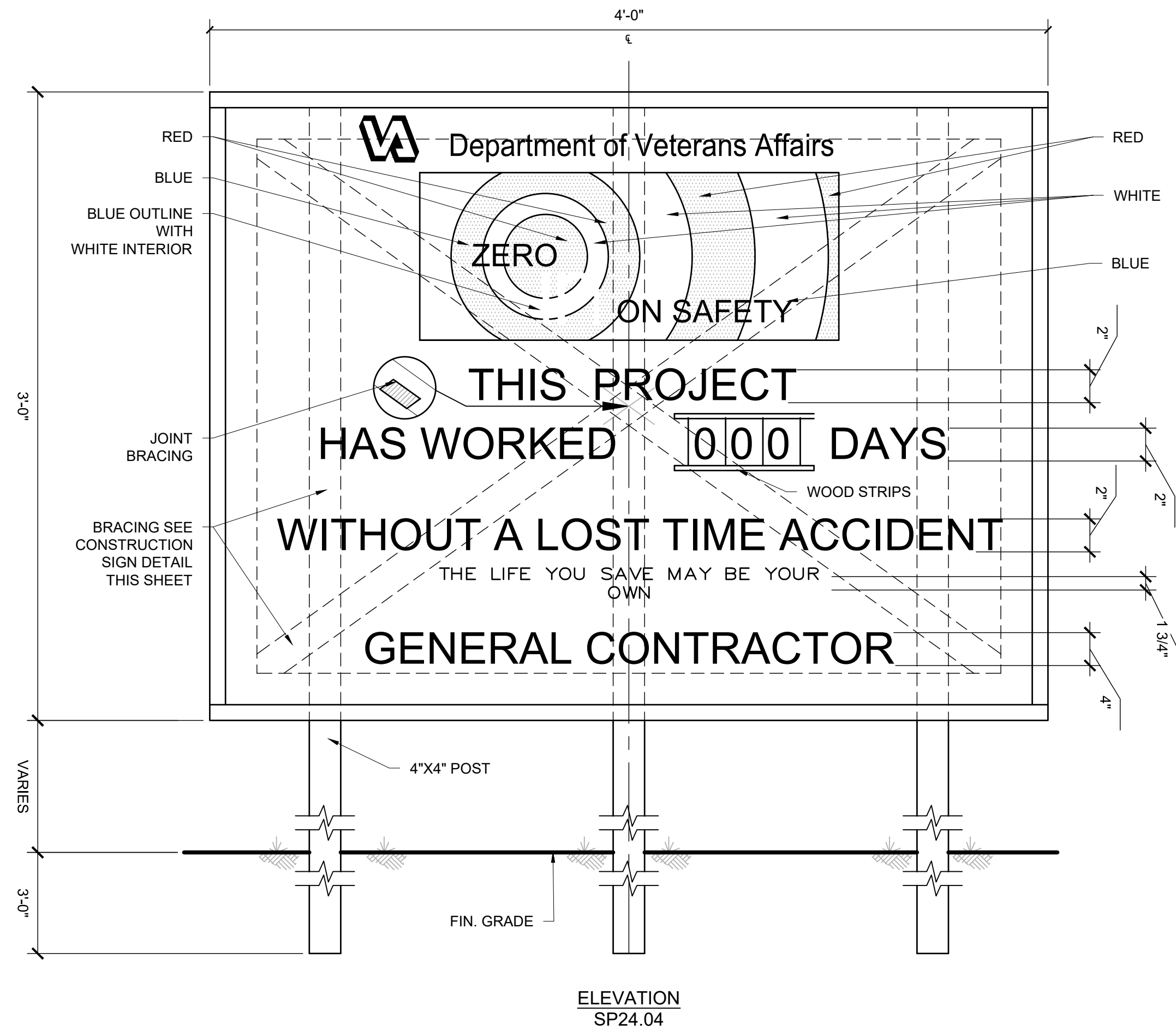
3 BENCH (OWNER PROVIDED; CONTRACTOR INSTALLED)
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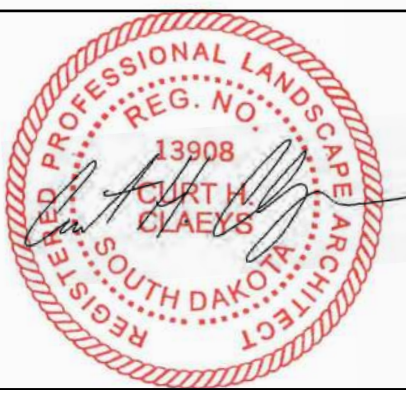

2 BIKE RACK (OWNER PROVIDED; CONTRACTOR INSTALLED)
SCALE: N.T.S. (30" x 42" PAPER SIZE)



4 PROJECT CONSTRUCTION SIGN
SCALE: N.T.S. (30" x 42" PAPER SIZE)

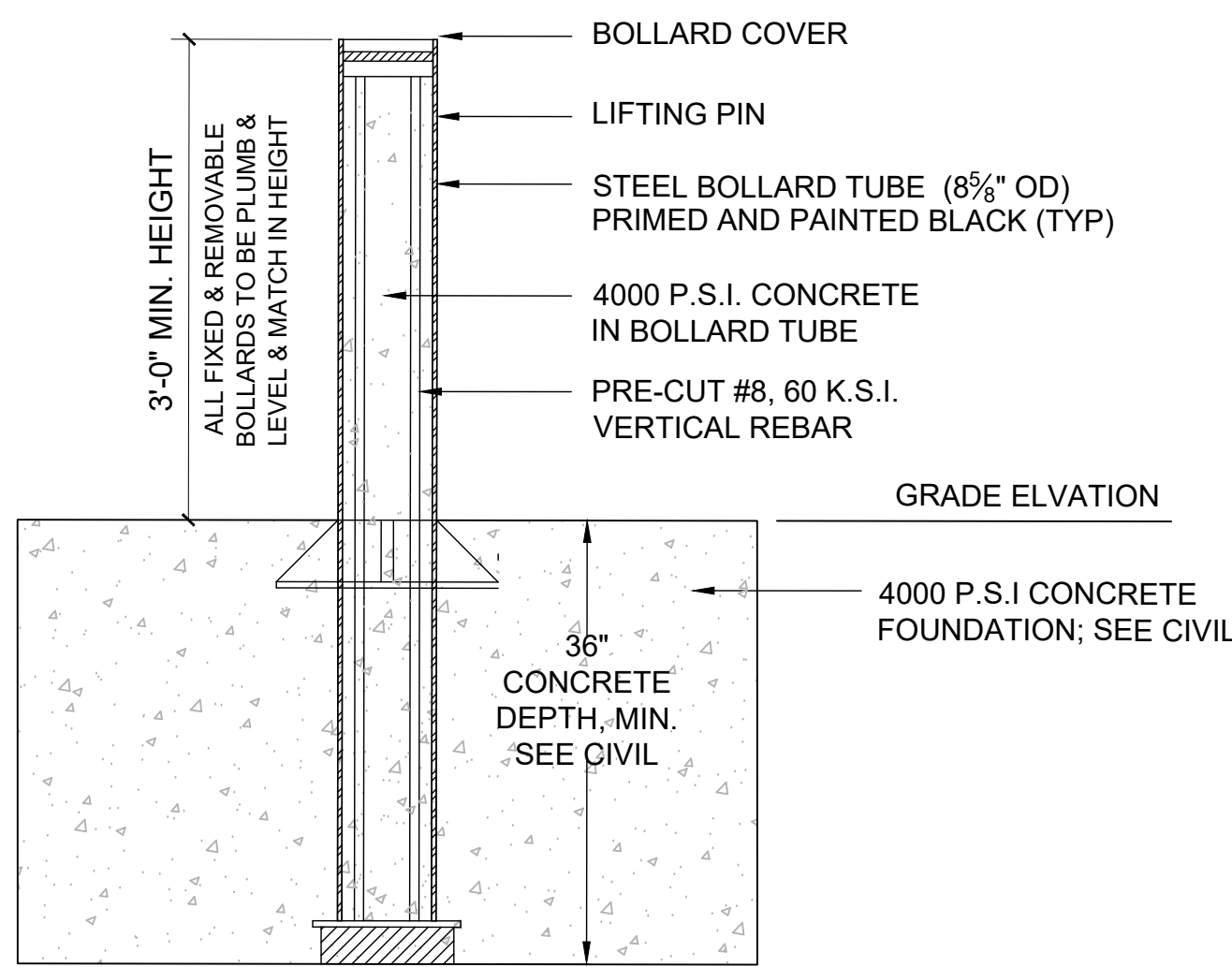


5 SAFETY CONSTRUCTION SIGN
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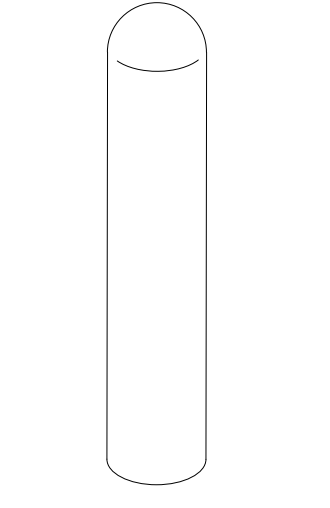
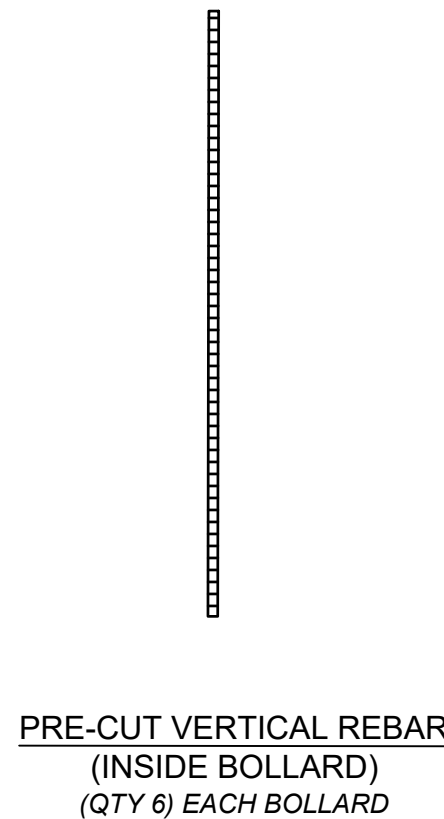
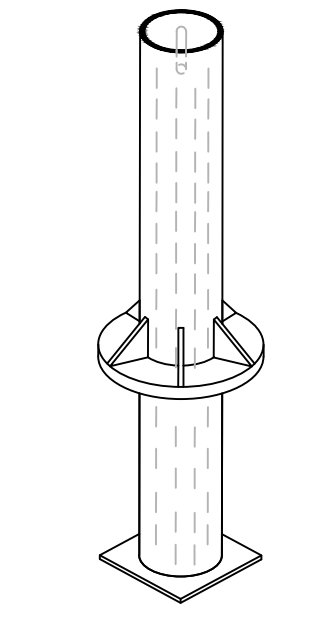
<div>Revisions:</div> <div>Date:</div>		<div>CONSULTANTS</div> <div></div>		<div>ARCHITECT/ENGINEER OF RECORD</div> <div><div>13605 1st Ave. N. #100 Plymouth, MN 55441 P 763.412.4000 F 763.412.4090 ae-mn.com Anderson Engineering of Minnesota, LLC Proj # 16584</div></div>		<div>STAMP</div> <div></div>	<div>Office of Construction and Facilities Management</div> <div> U.S. Department of Veterans Affairs</div>	<div>Drawing Title</div> <div>SITE FURNISHINGS DETAILS</div> <div>Approved: Project Director</div> <div>SIoux FALLS VA HEALTH CARE SYSTEM</div>	<div>Phase</div> <div>BID DOCUMENTS</div> <div>FULLY SPRINKLERED</div>	<div>Project Title</div> <div>CONSTRUCT NEW SPS</div> <div>Location</div> <div>SIoux FALLS, SOUTH DAKOTA</div> <div>Issue Date</div> <div>02/14/2025</div> <div>Checked</div> <div>CC</div> <div>Drawn</div> <div>JF</div>	<div>Project Number</div> <div>438-460</div> <div>Building Number</div> <div>5</div> <div>Drawing Number</div> <div>LF501</div>
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1 FIXED BOLLARDS - RATED M30(K4)

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



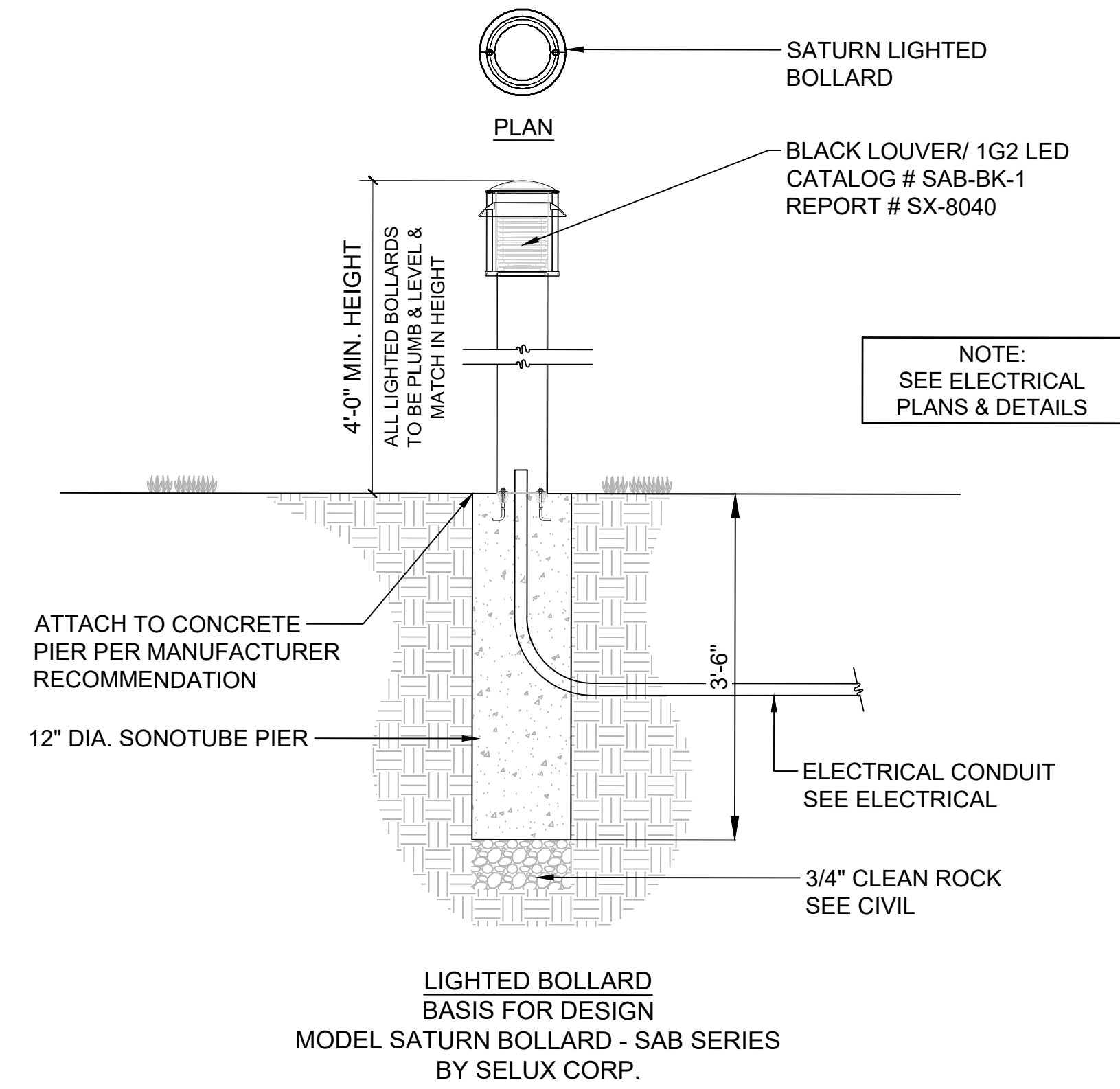
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STANDARD FIXED BOLLARDS & REMOVABLE BOLLARDS TO BE RATED ASTM M30(K4) PER VA PHYSICAL SECURITY AND RESILIENCY DESIGN MANUAL REQUIREMENTS



FIXED BOLLARD PREFABRICATED MATERIALS

2 LIGHTED BOLLARDS

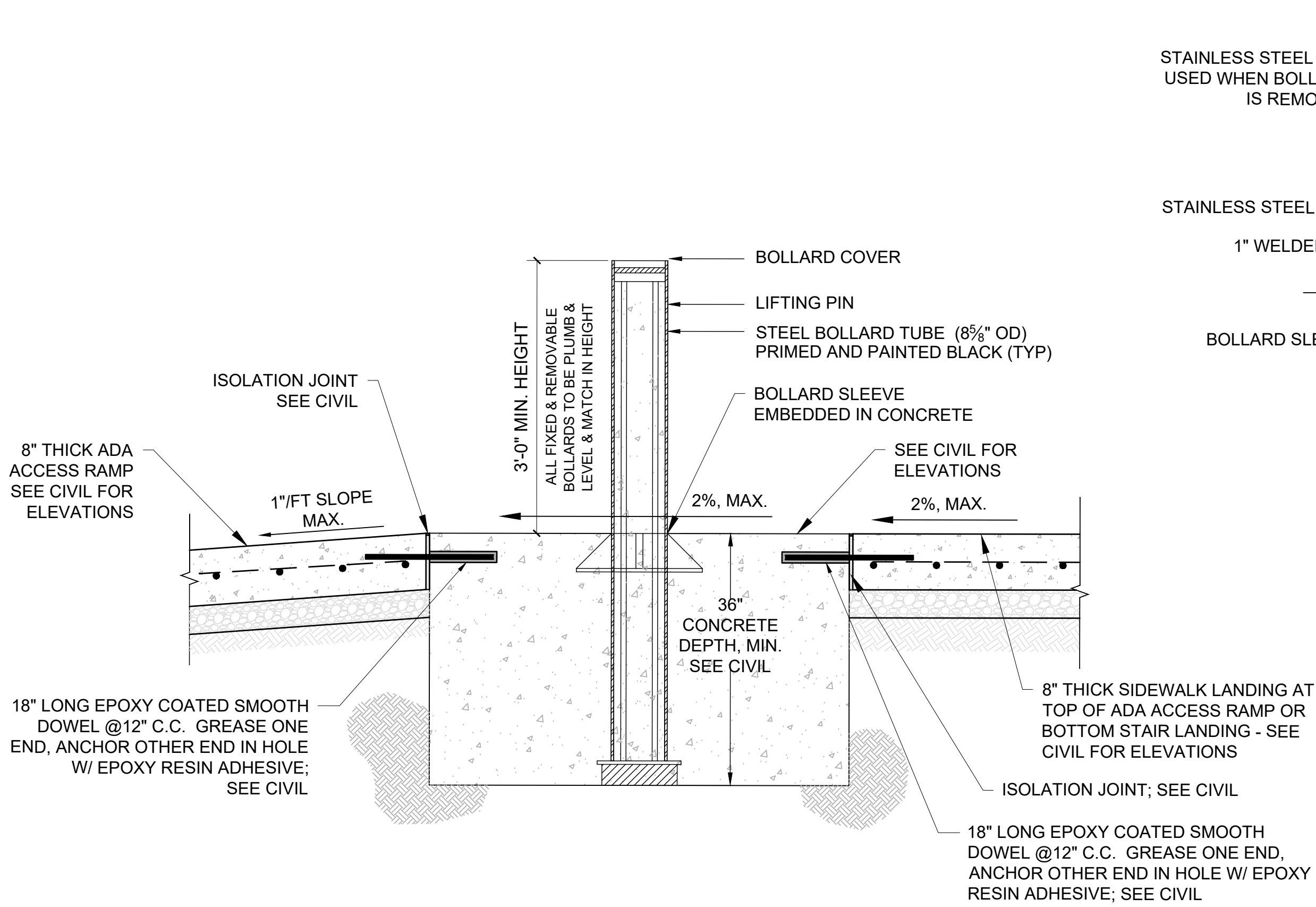
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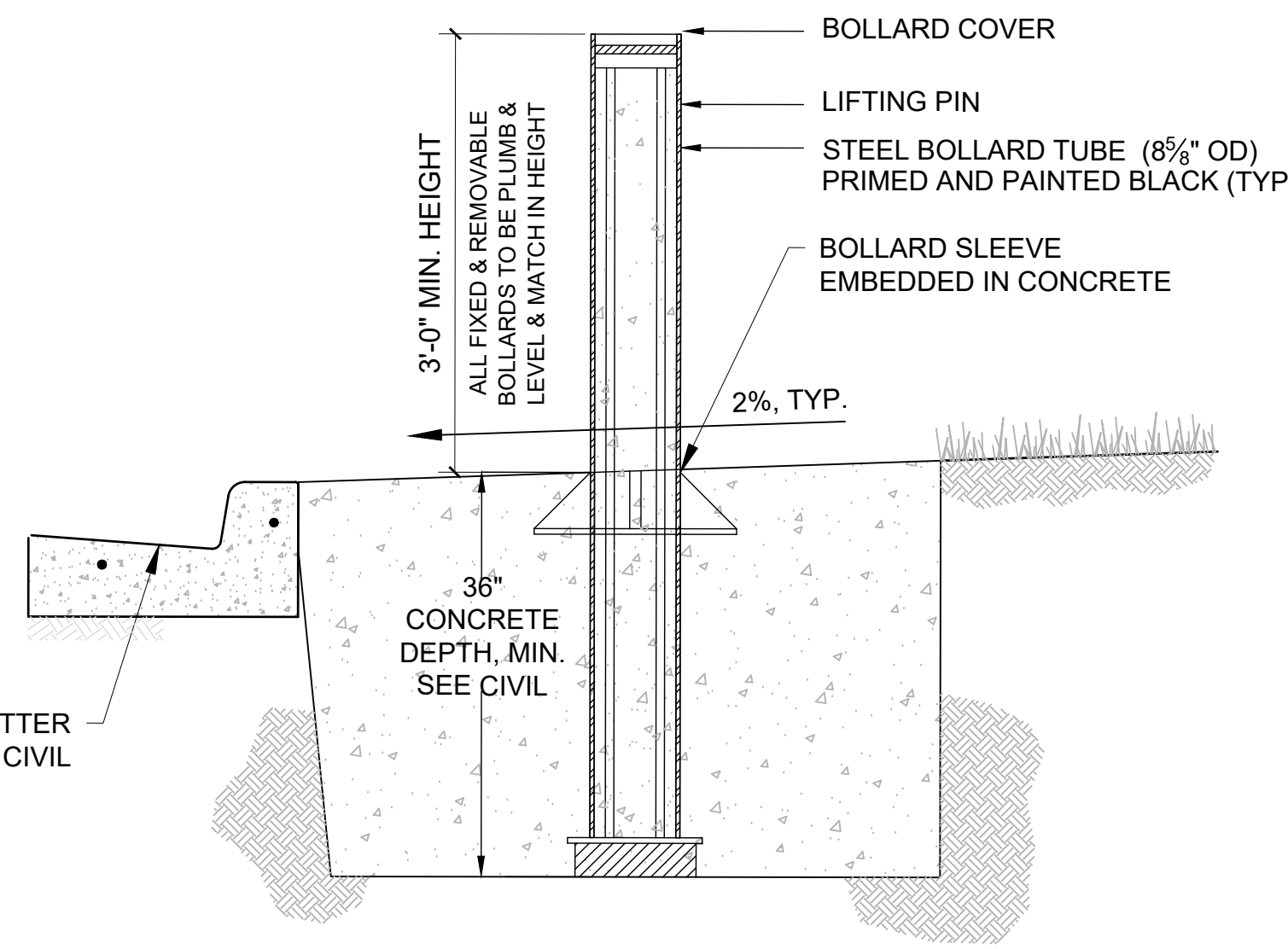
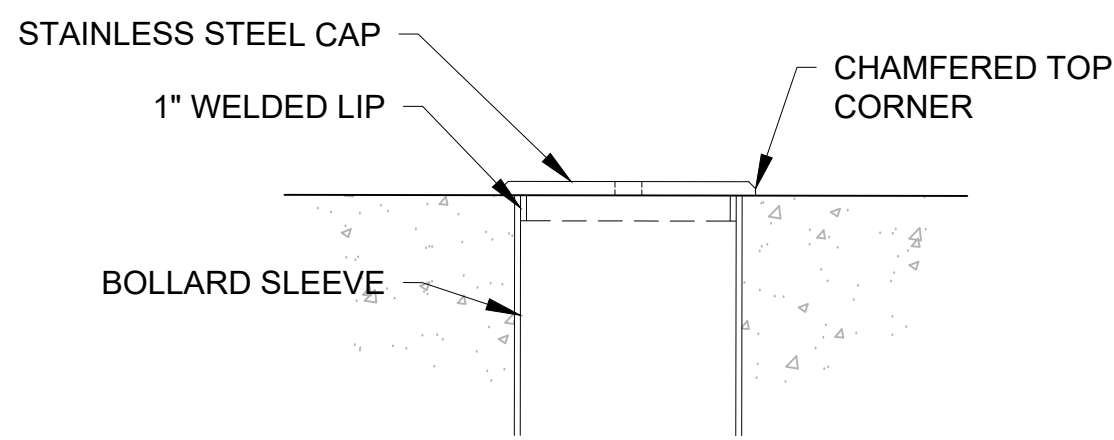
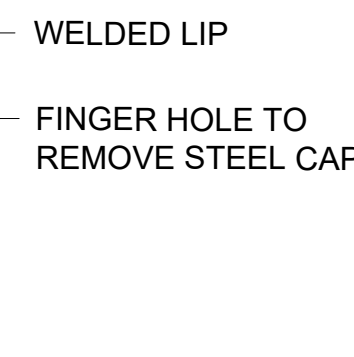
NOTE:
SEE ELECTRICAL PLANS & DETAILS

3 REMOVABLE BOLLARDS - RATED M30(K4)

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



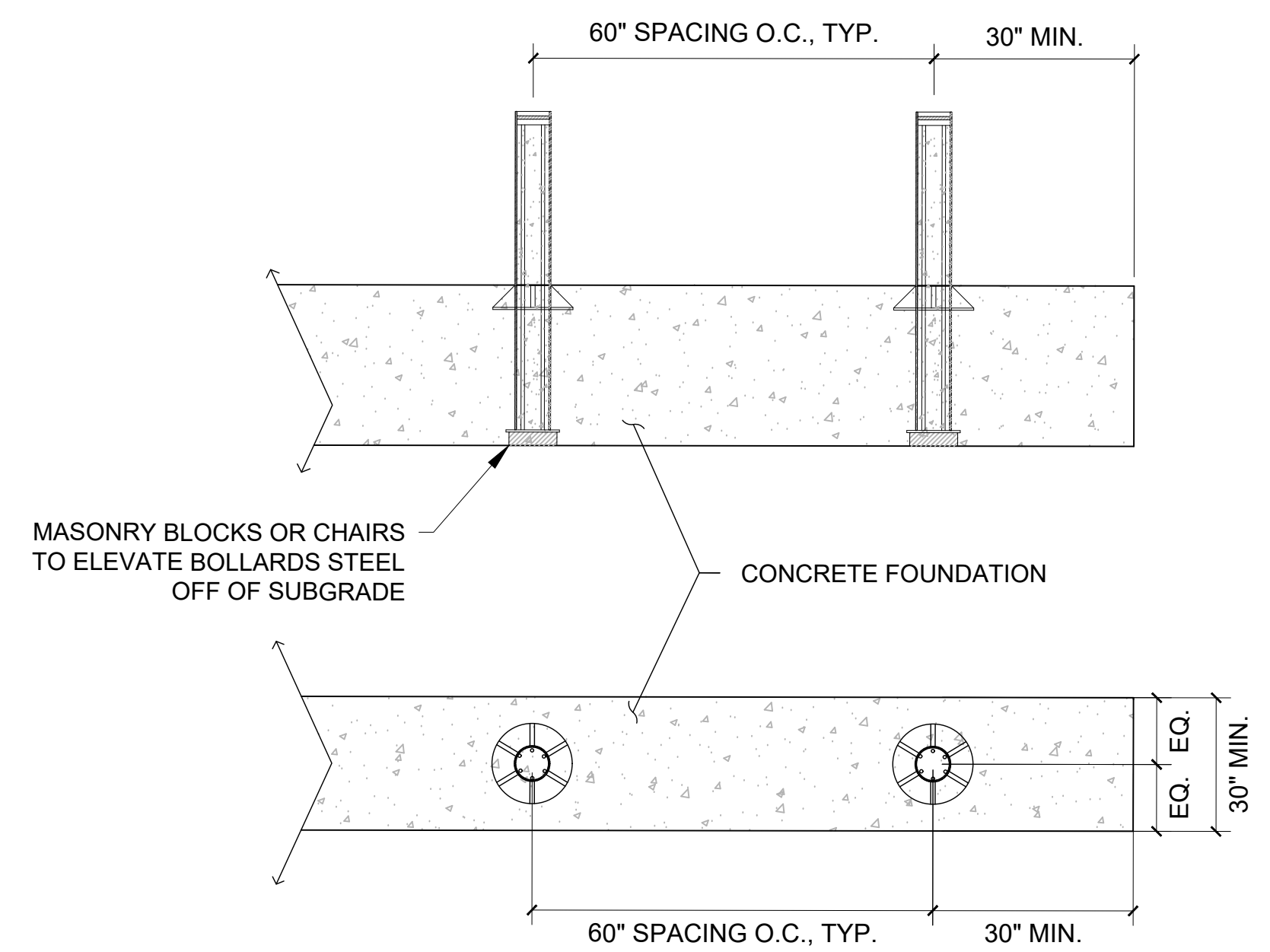
NOTE:
STANDARD FIXED BOLLARDS & REMOVABLE BOLLARDS TO BE RATED ASTM M30(K4) PER VA PHYSICAL SECURITY AND RESILIENCY DESIGN MANUAL REQUIREMENTS



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

4 FIXED & REMOVABLE BOLLARDS SPACING

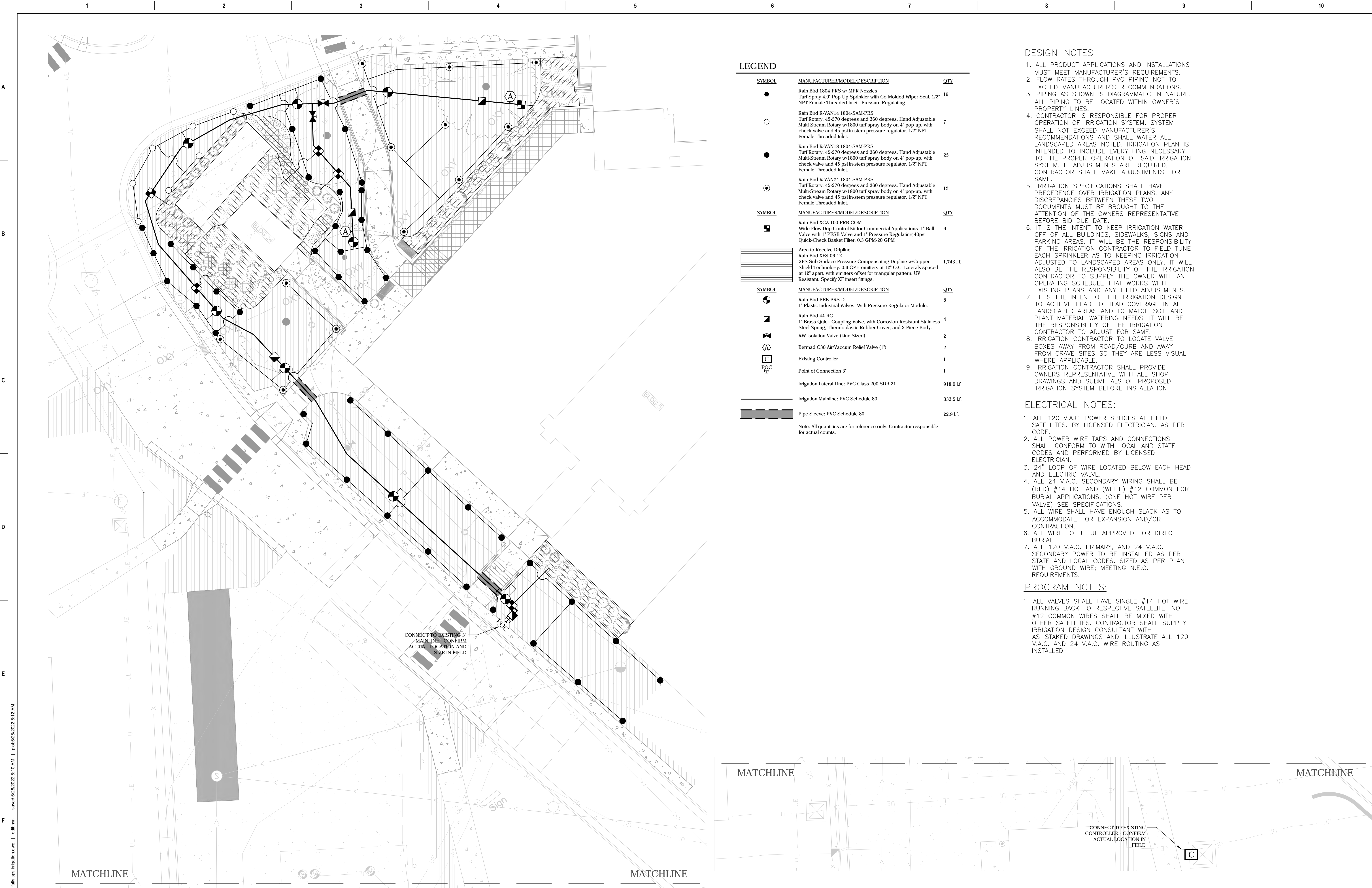
SCALE: N.T.S. (30" x 42" PAPER SIZE)



FIXED AND REMOVABLE BOLLARD ARRAY

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LEGEND

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

DESIGN NOTES

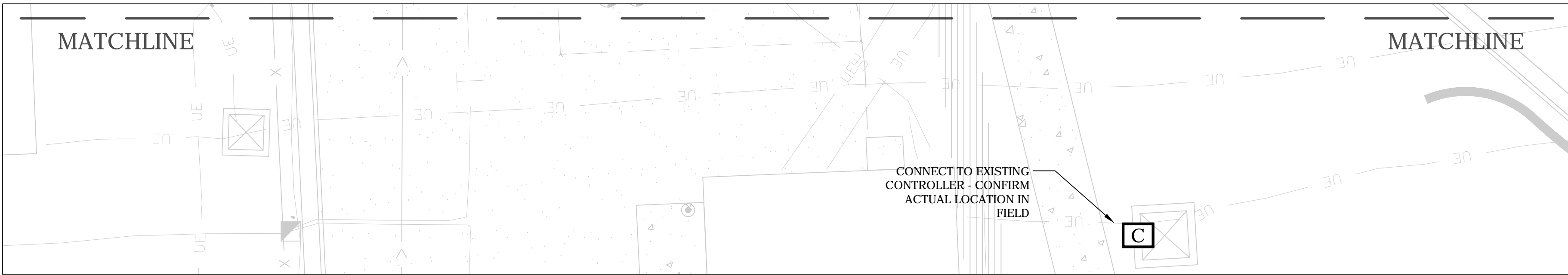
- ALL PRODUCT APPLICATIONS AND INSTALLATIONS MUST MEET MANUFACTURER'S REQUIREMENTS.
- FLOW RATES THROUGH PVC PIPING NOT TO EXCEED MANUFACTURER'S RECOMMENDATIONS.
- PIPING AS SHOWN IS DIAGRAMMATIC IN NATURE. ALL PIPING TO BE LOCATED WITHIN OWNER'S PROPERTY LINES.
- CONTRACTOR IS RESPONSIBLE FOR PROPER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

ELECTRICAL NOTES:

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

PROGRAM NOTES:

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



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VA FORM 08 - 6231

Revisions:	Date:

CONSULTANTS



ARCHITECT/ENGINEER OF RECORD



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

STAMP

Office of
Construction
and Facilities
Management



U.S. Department
of Veterans Affairs

Drawing Title

IRRIGATION PLAN

Approved: Project Director

SIoux FALLS VA
HEALTH CARE SYSTEM

Phase

BID DOCUMENTS

Project Title

CONSTRUCT NEW SPS

Location

SIoux FALLS, SOUTH DAKOTA

Issue Date

02/14/2025

Checked

Drawn

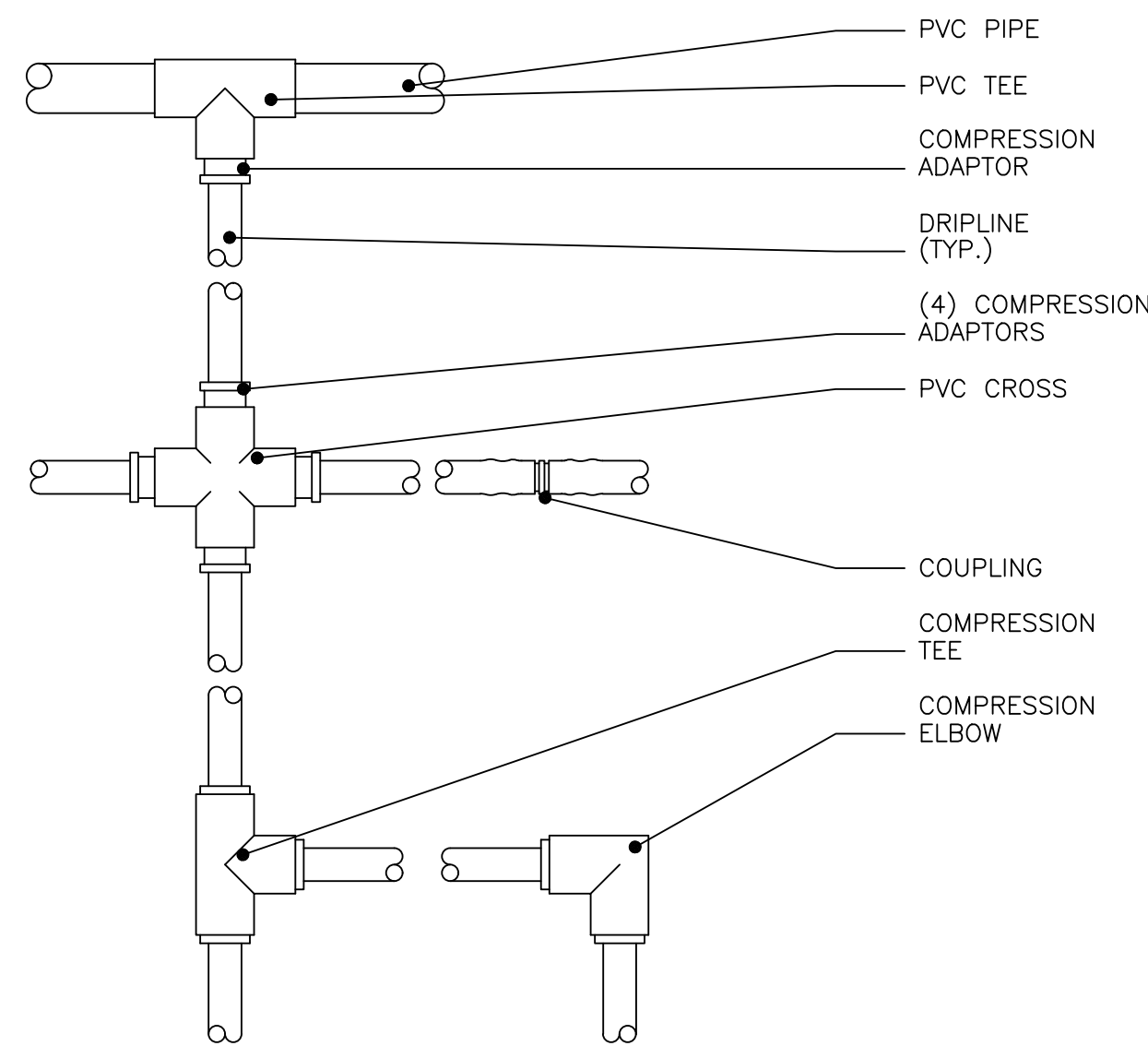
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438-460

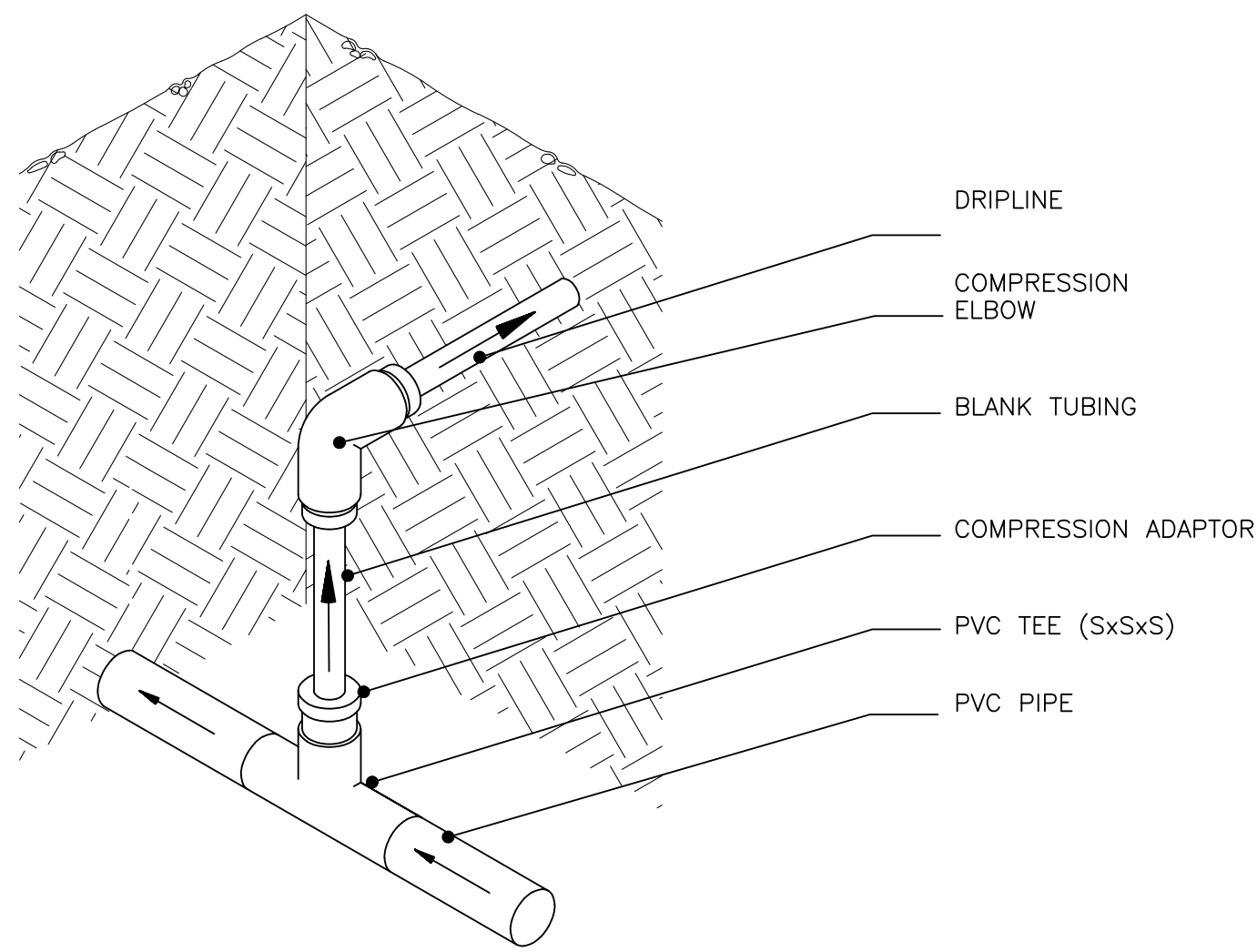
Building Number

Drawing Number

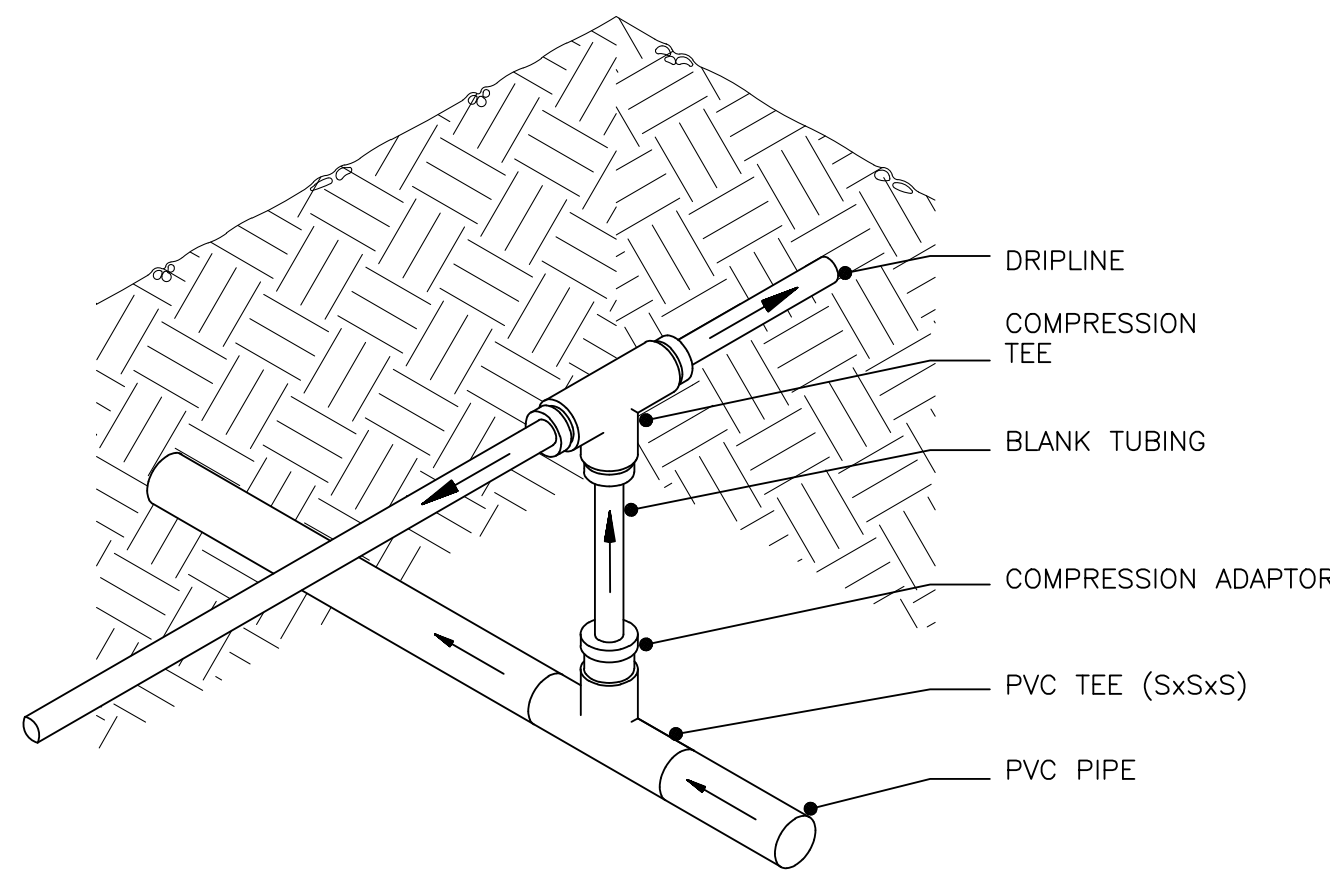
IR101



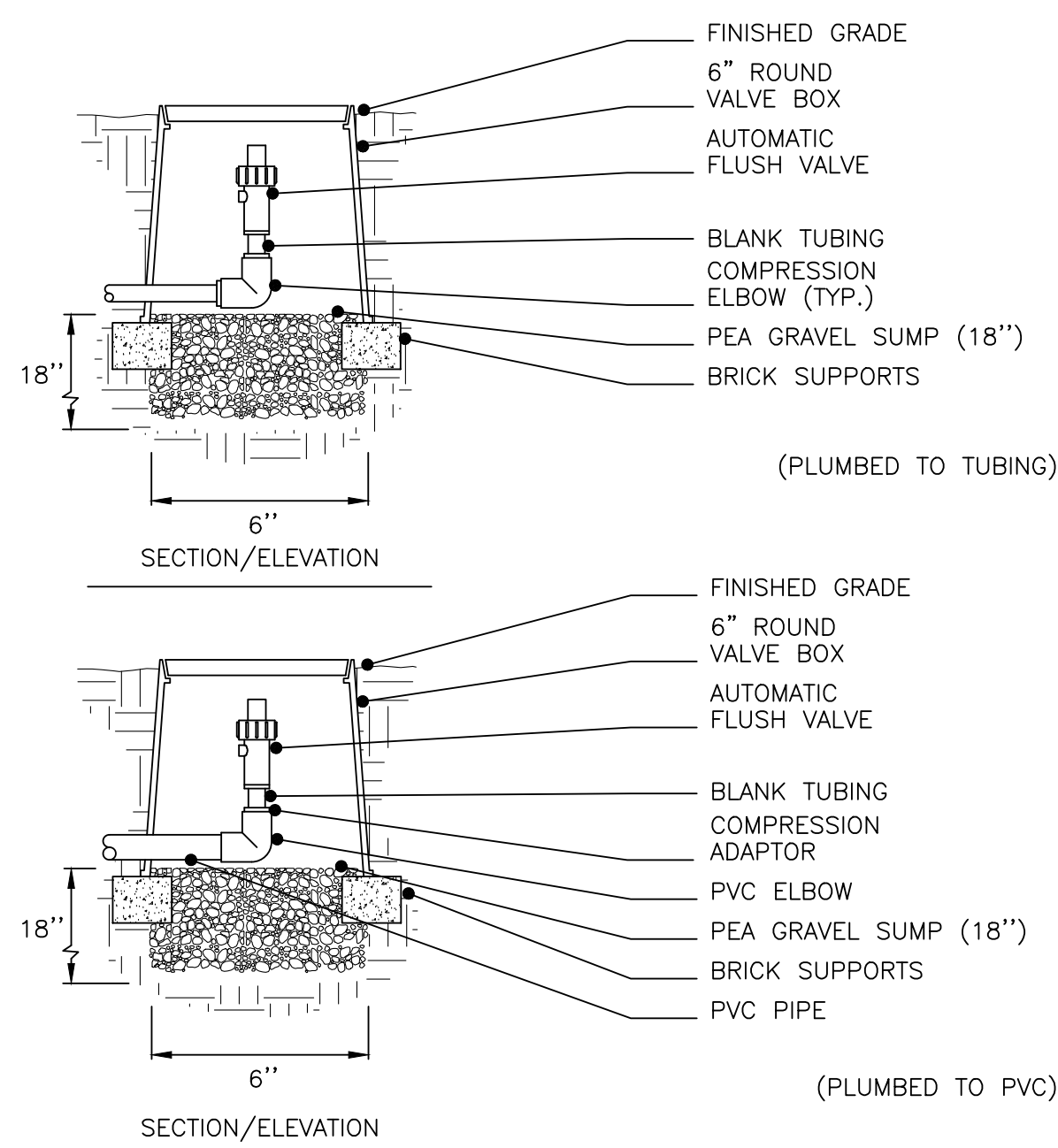
1 5/8" FITTINGS
SCALE: NONE



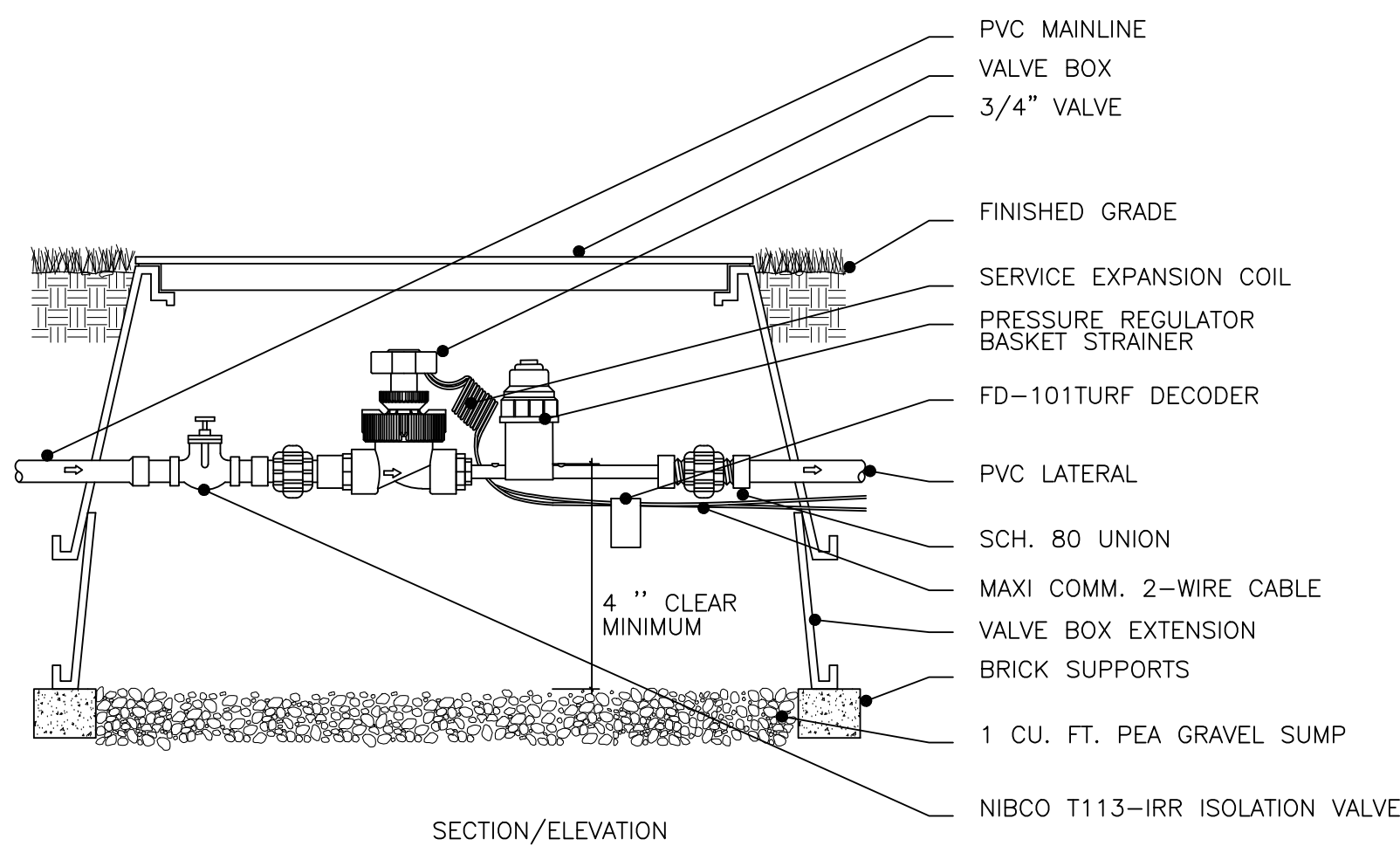
2 MANIFOLD-TO-ELBOW CONNECTION
SCALE: NONE



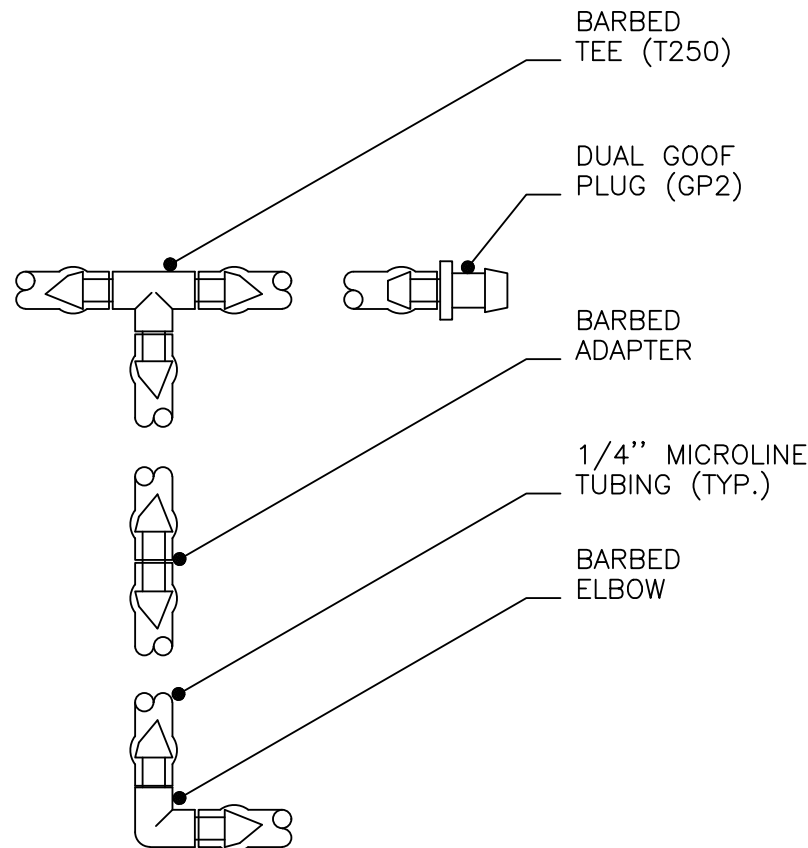
3 MANIFOLD-TO-TEE CONNECTION
SCALE: NONE



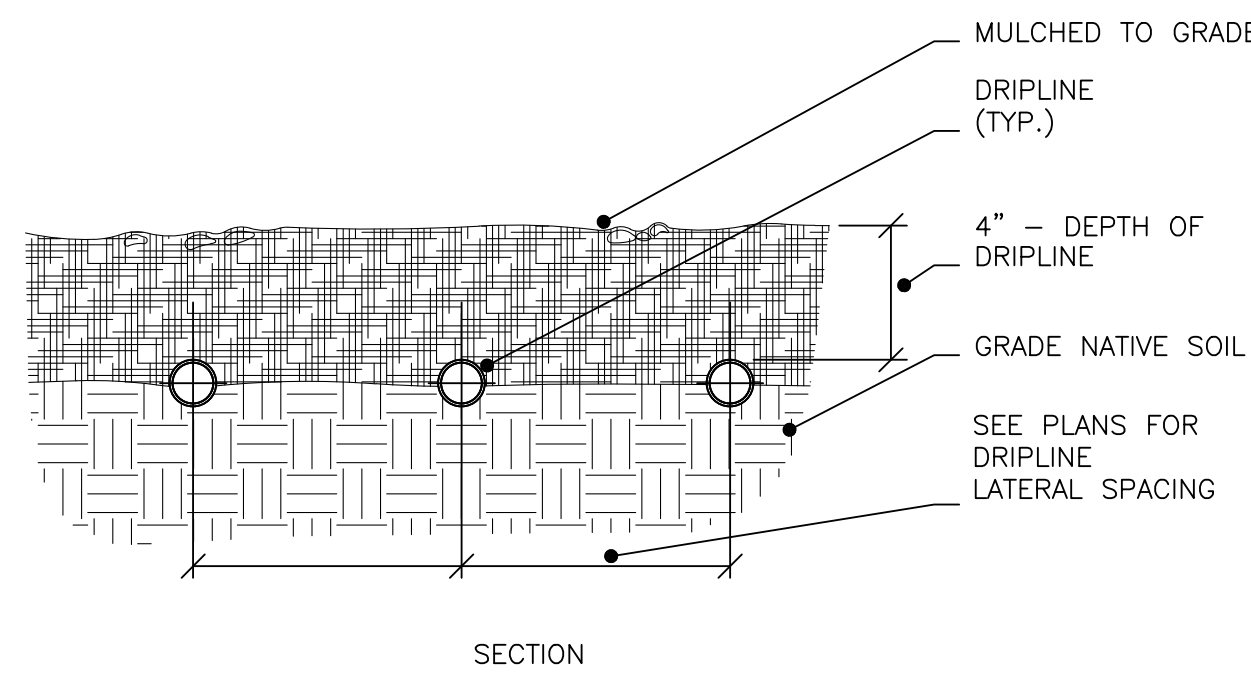
4 AUTOMATIC FLUSH VALVE
SCALE: NONE



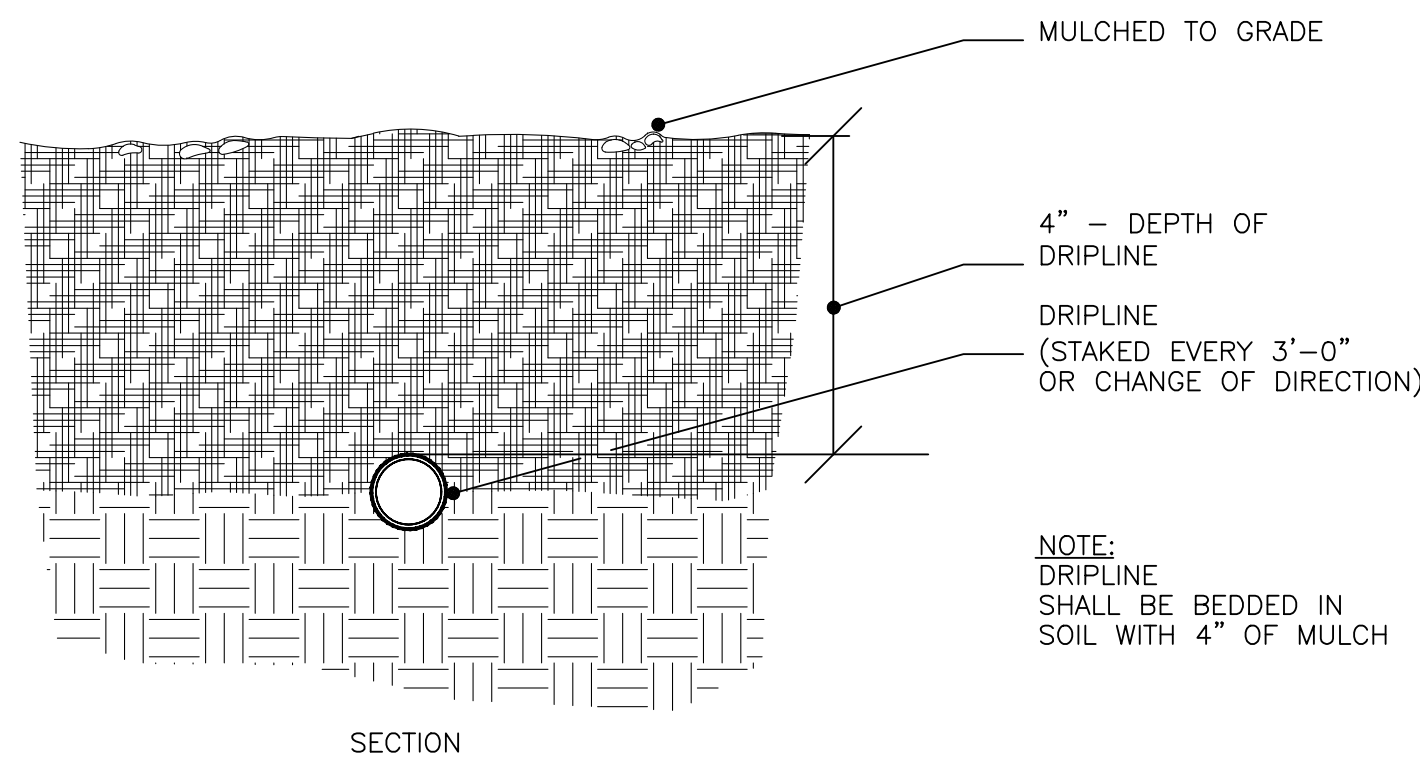
5 REMOTE CONTROL VALVE,
PRESSURE REGULATOR & FILTER
SCALE: NONE



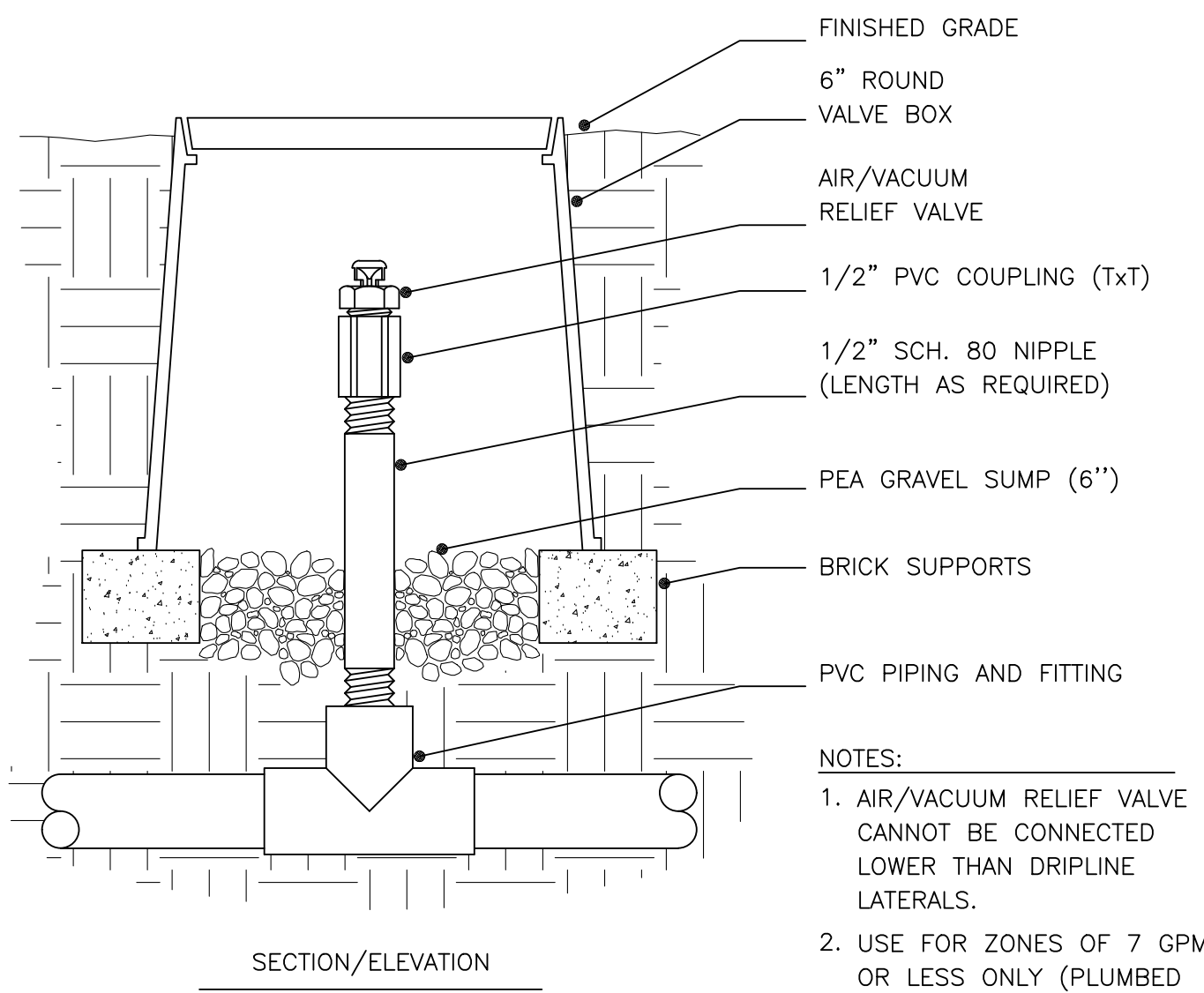
6 1/4" MICRO FITTINGS
SCALE: NONE



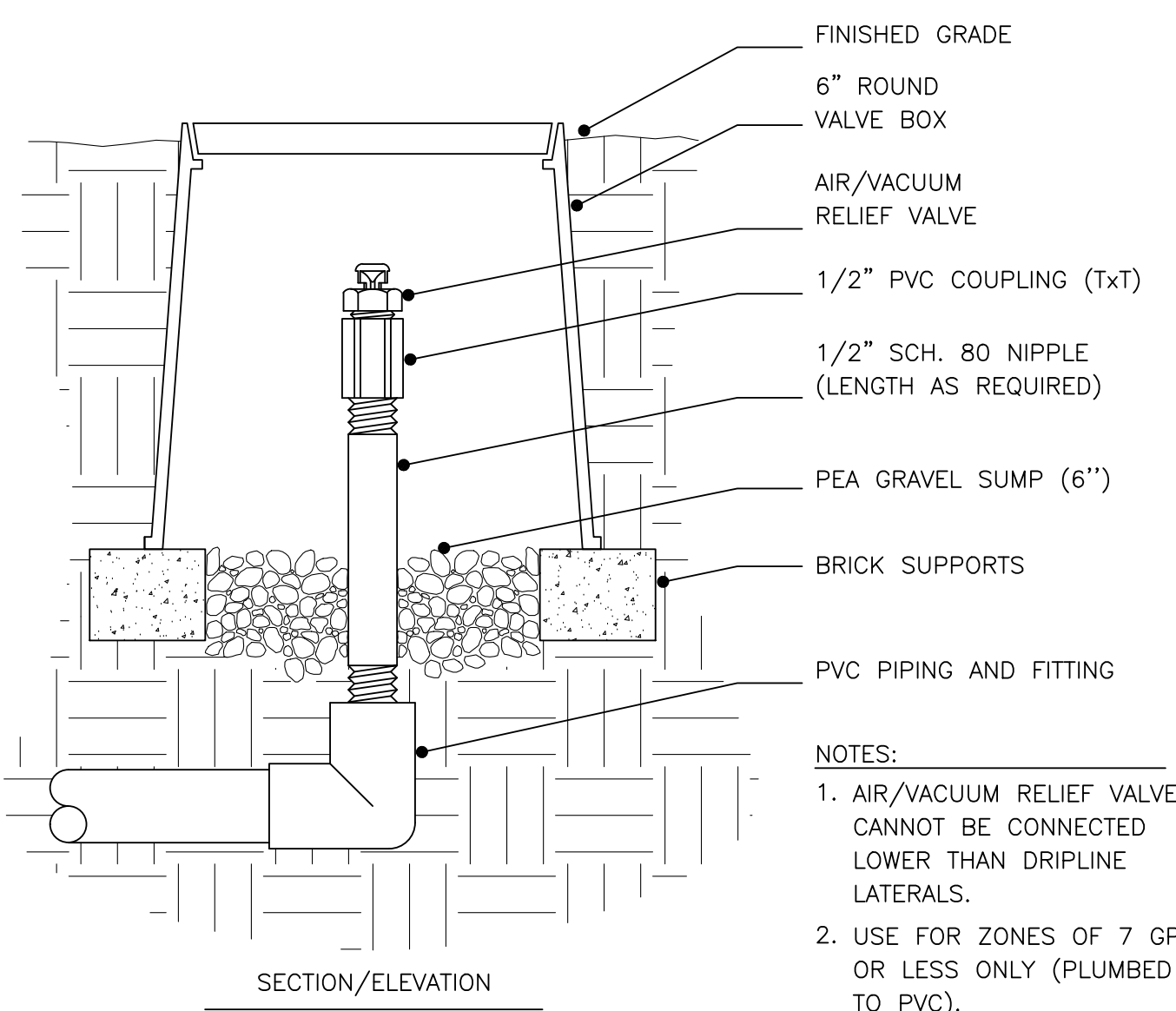
7 SUB-GRADE LAYOUT
SCALE: NONE



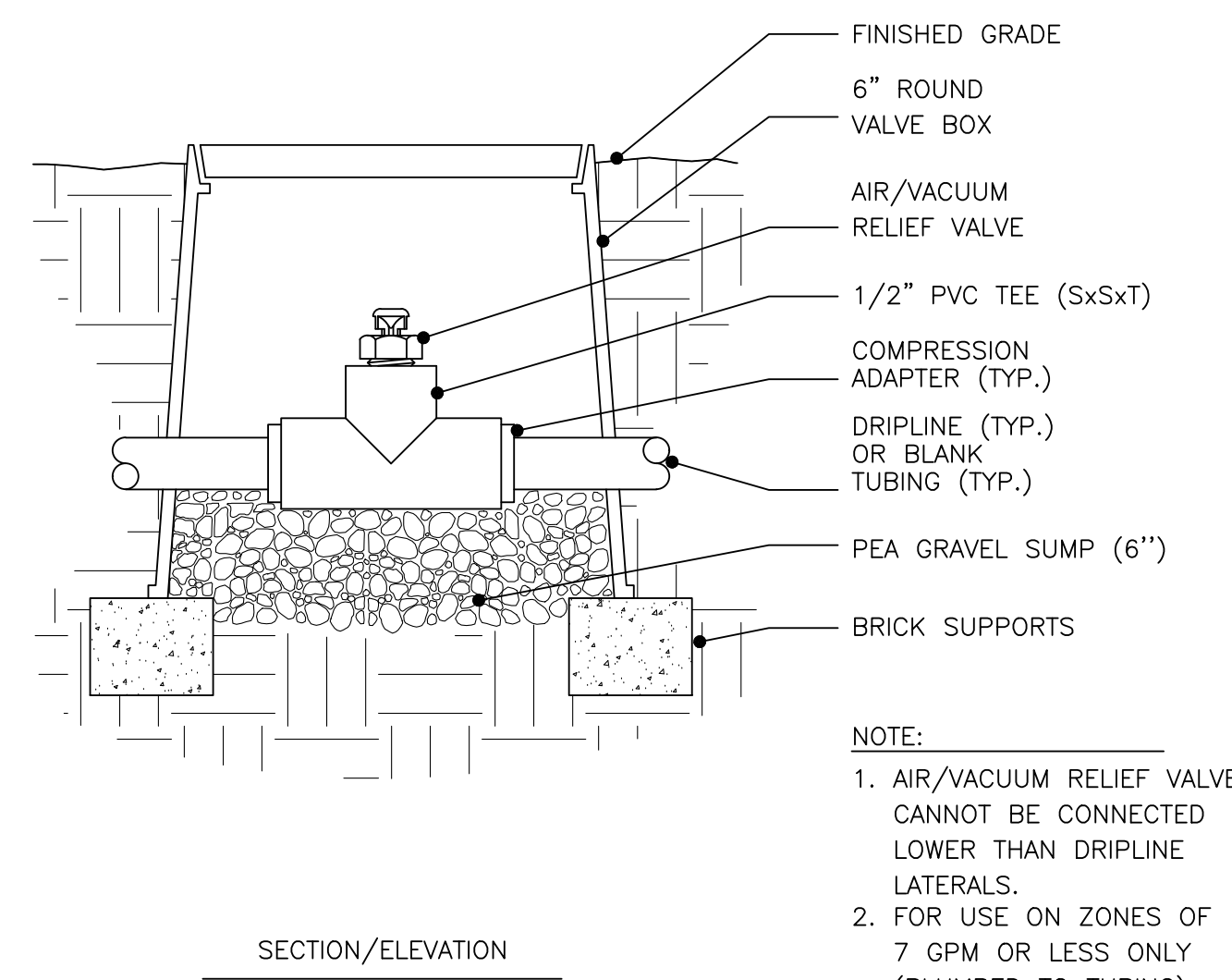
8 DRIPLINE TRENCH
SCALE: NONE



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

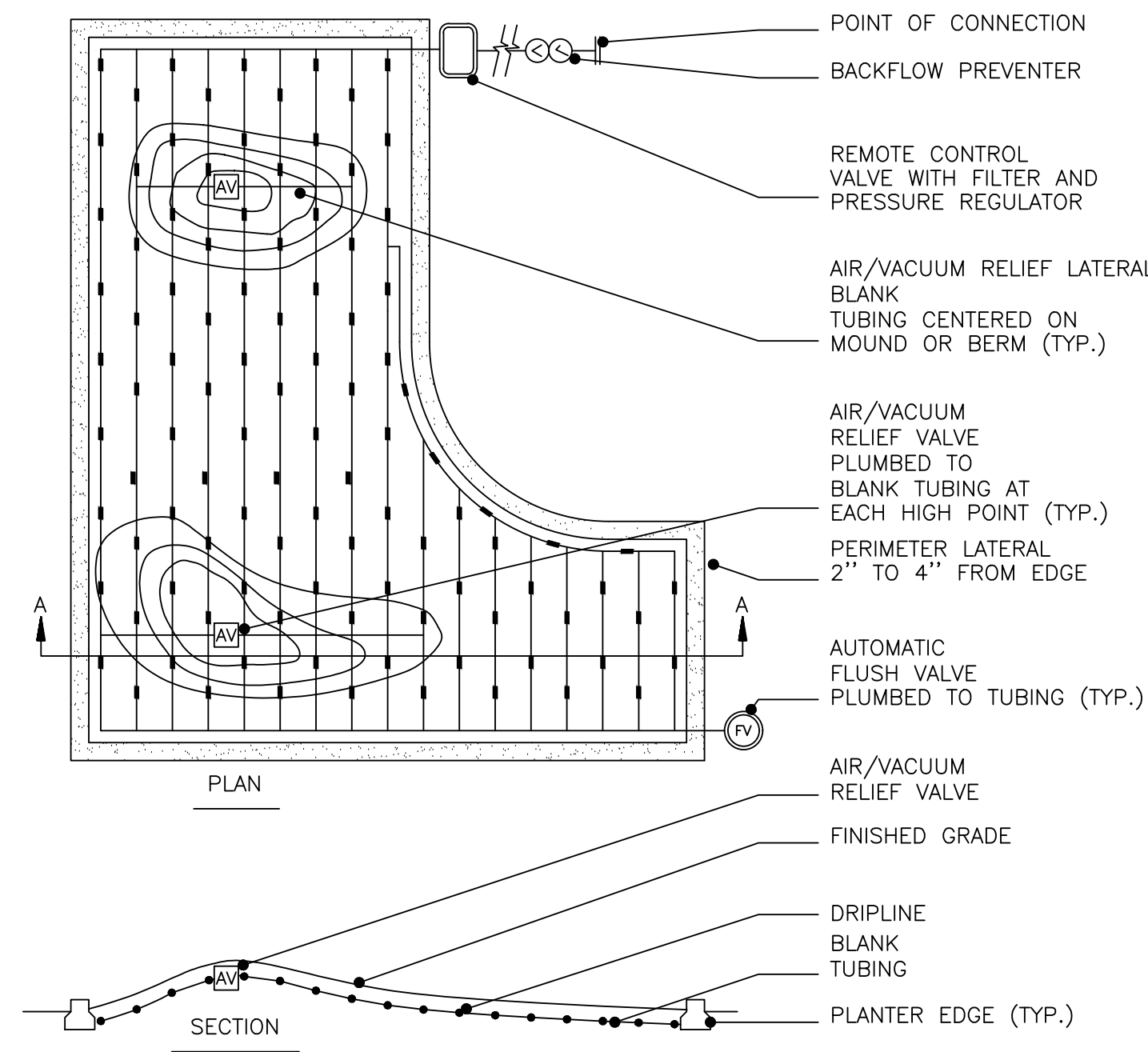


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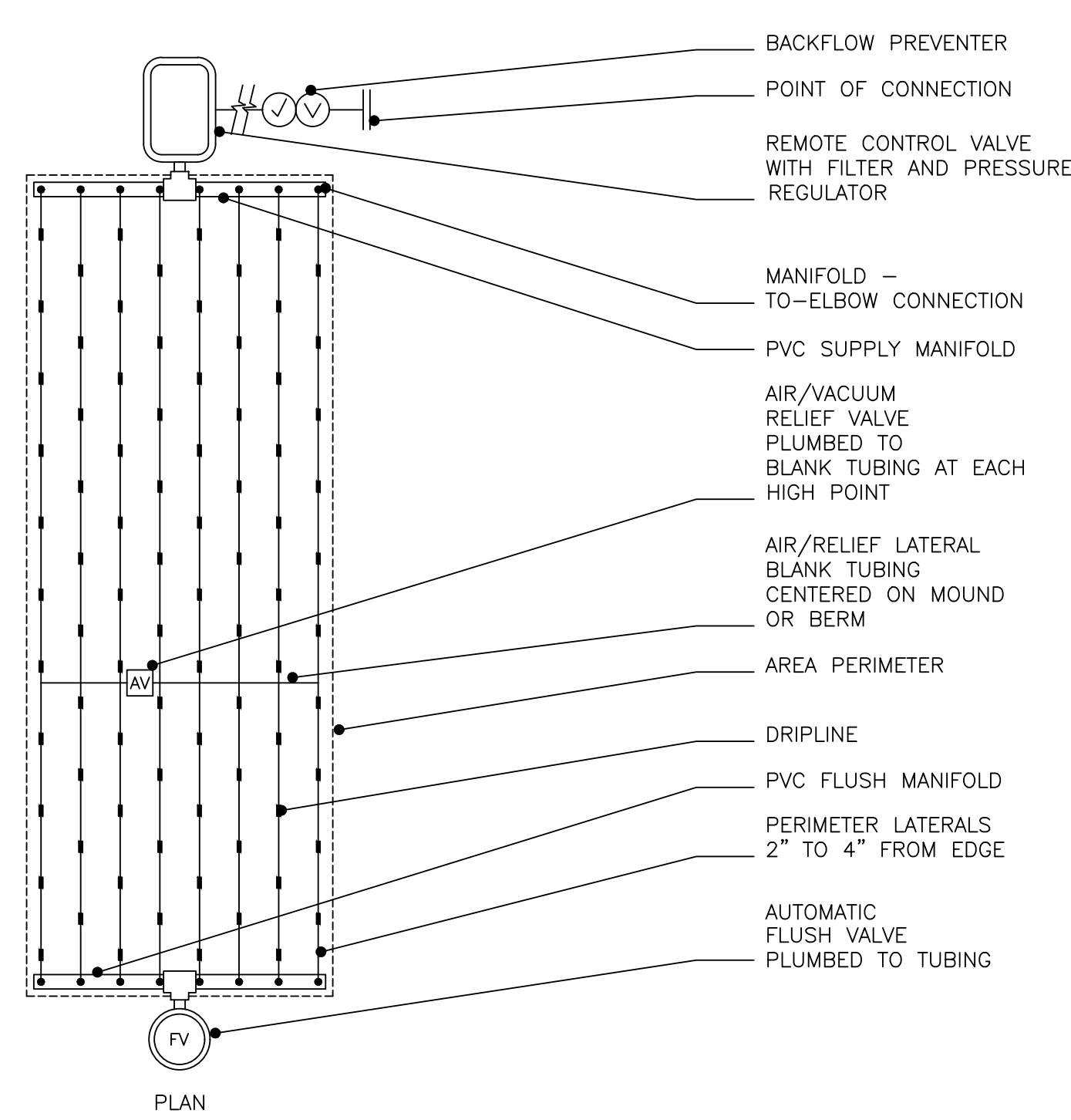


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SCALE: NONE

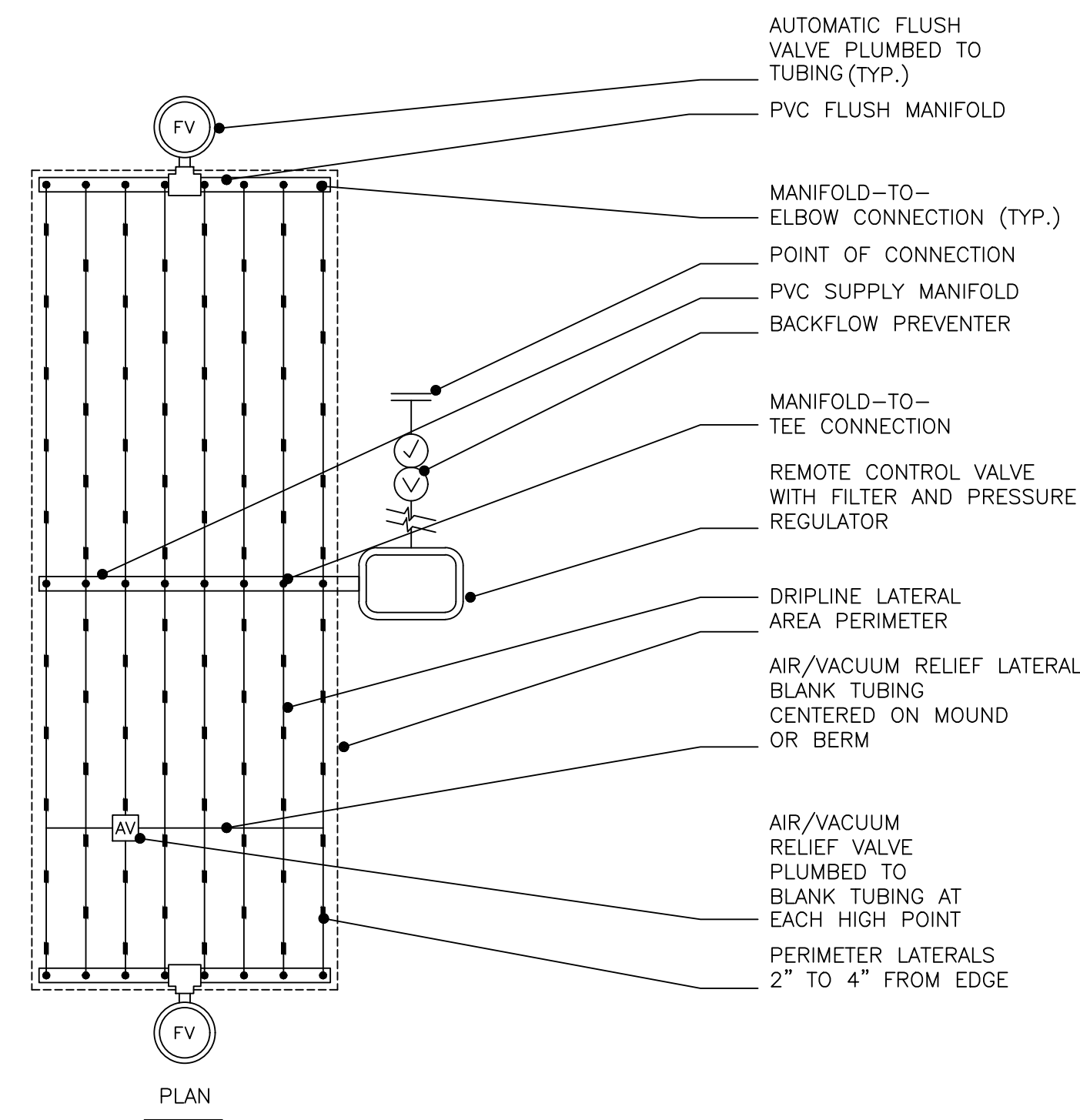
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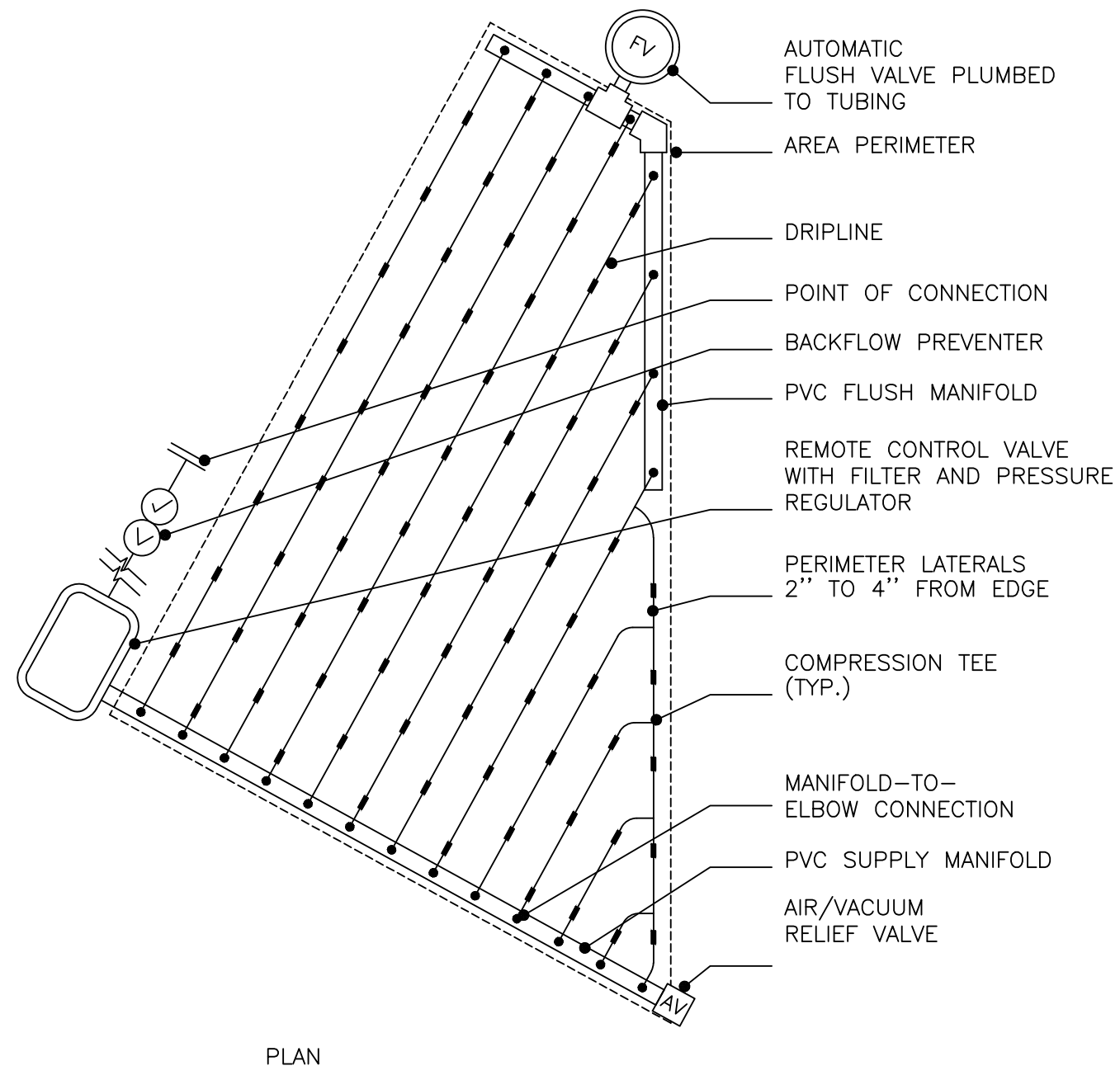
1 MOUND LAYOUT
SCALE: NONE



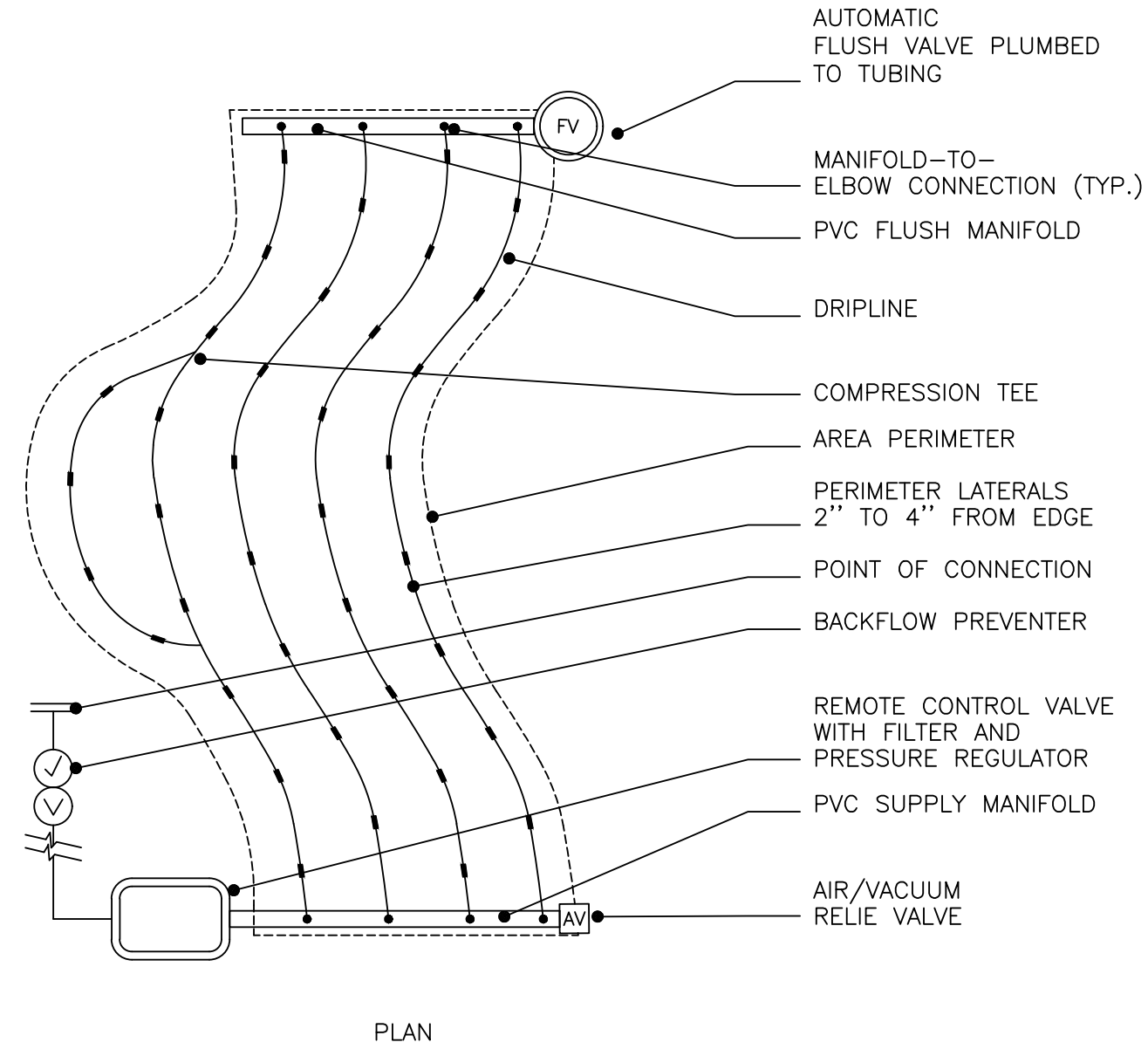
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SCALE: NONE



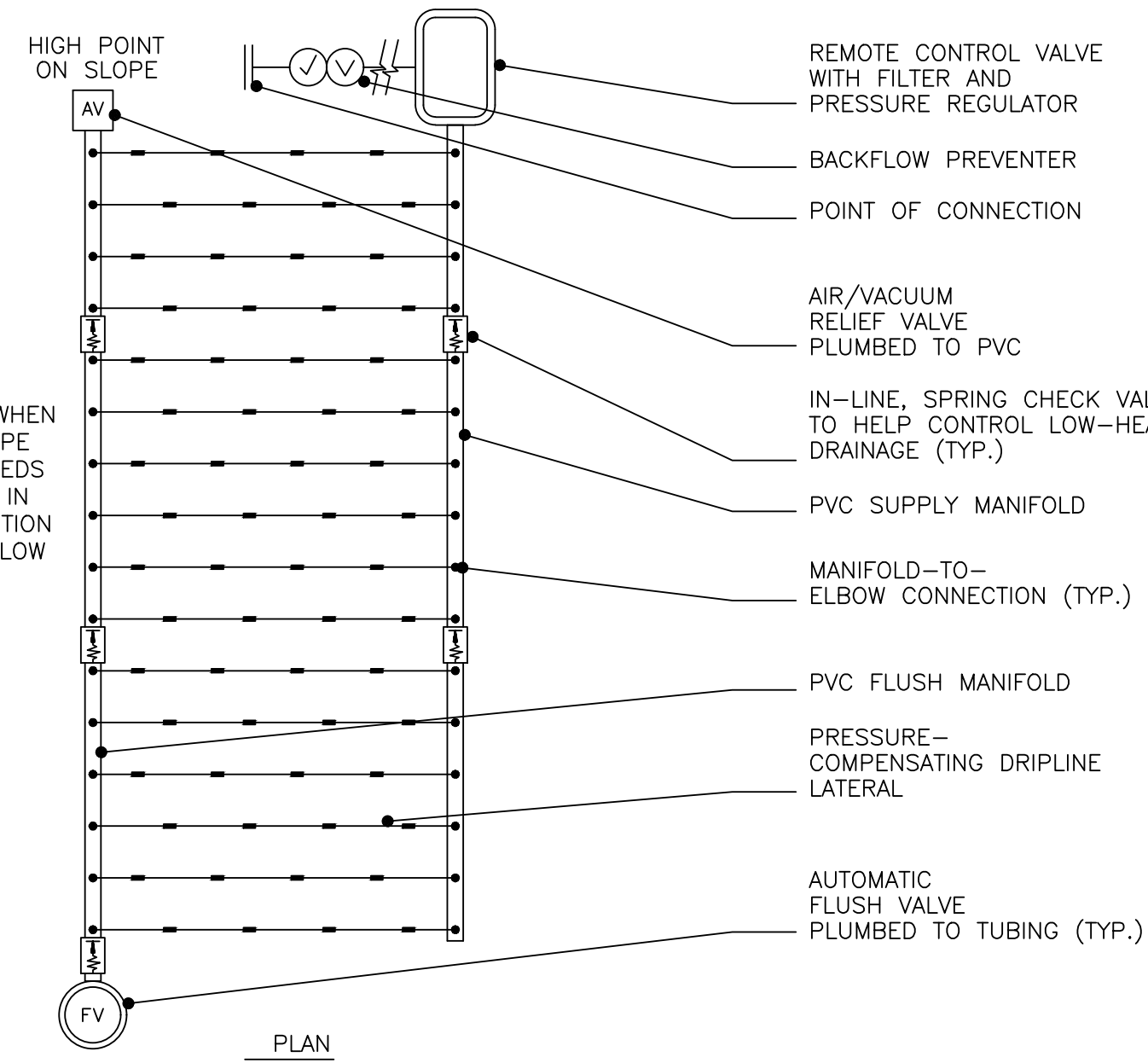
3 CENTER FEED LAYOUT
SCALE: NONE



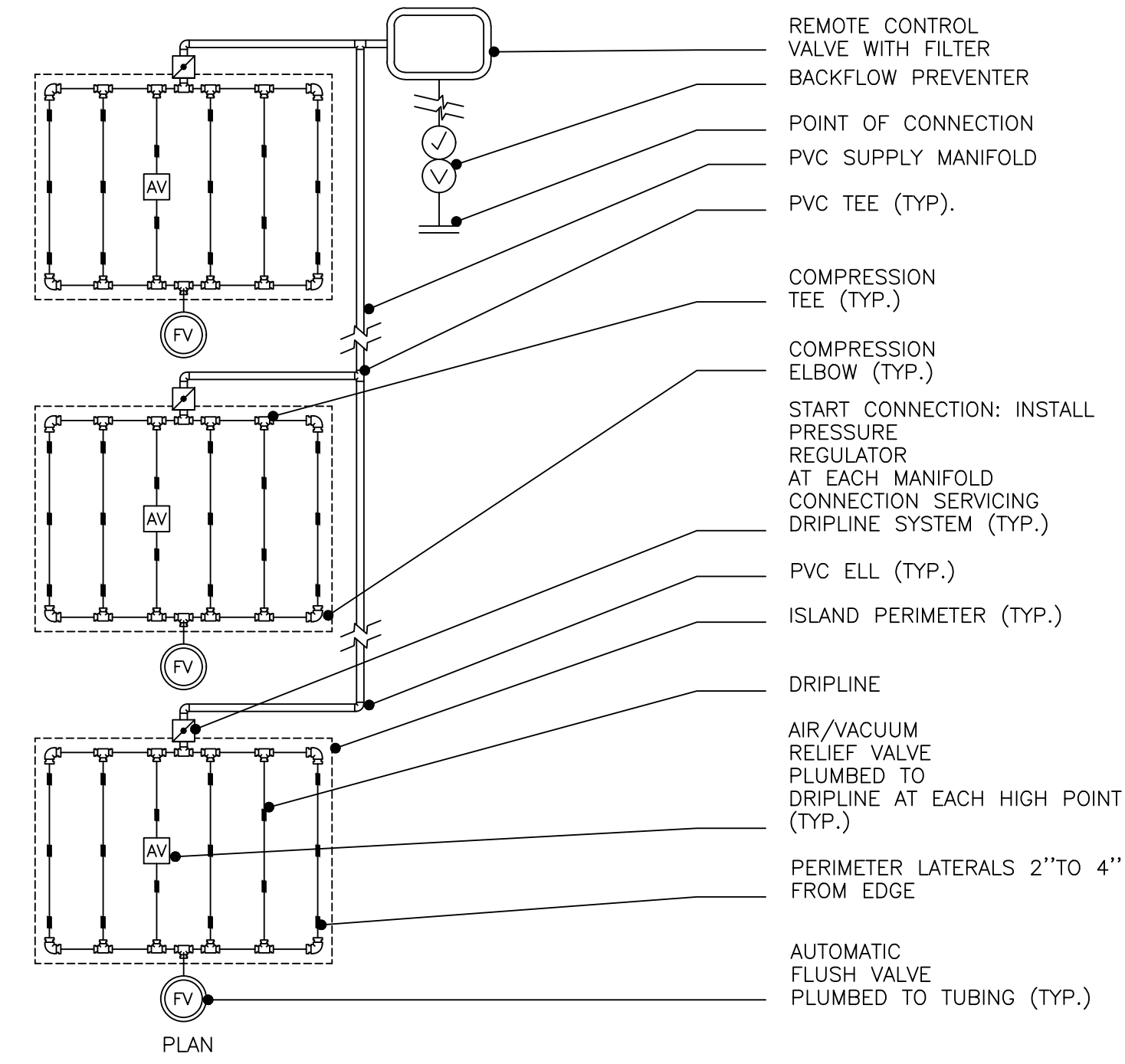
4 IRREGULAR LAYOUT (TRIANGULAR)
SCALE: NONE



5 IRREGULAR LAYOUT (ODD CURVES)
SCALE: NONE



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



7 ISLAND LAYOUT
SCALE: NONE

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Phase

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Project Title

CONSTRUCT NEW SPS

Location

SIoux FALLS, SOUTH DAKOTA

Issue Date

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Checked

Drawn

Project Number

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Building Number

Drawing Number

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