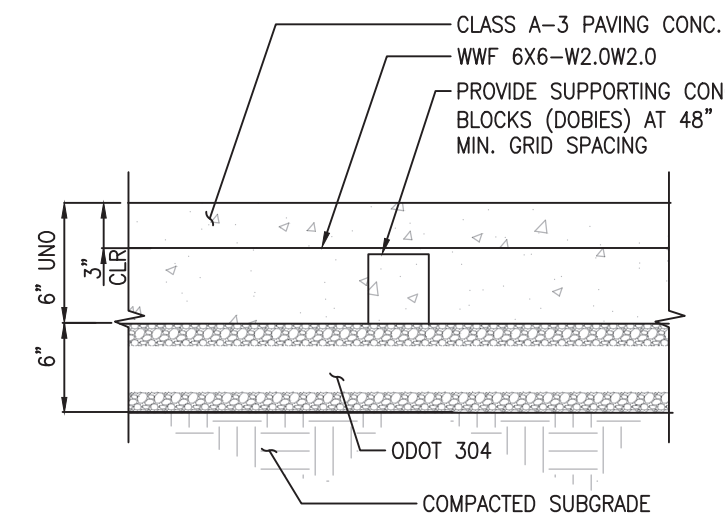


NOTES:

- 1. SIDEWALKS:**
 - ALL SIDEWALKS SHALL COMPLY WITH FDOT INDICES 522-001 AND 522-002 AND BE A MINIMUM OF 5 FEET IN WIDTH AND 4 INCHES IN DEPTH WHEN NOT AT A DRIVEWAY OR WITHIN 2 FEET OF THE FACE OF CURB.
 - SIDEWALKS WITH LESS THAN 2 FEET FROM THE FACE OF A HIGH-BACK SHALL BE A MINIMUM OF 6 FEET IN WIDTH.
 - SIDEWALKS TRANSVERSING DRIVEWAYS SHALL BE A MINIMUM OF 6 INCHES IN DEPTH.
 - SIDEWALKS AND DRIVEWAYS WITHIN THE RIGHT OF WAY SERVING COMMERCIAL SITES SHALL BE A MIN. 6 INCHED IN DEPTH AND INCLUDE 6X6 #10 WIRE MESH OR #3 REBAR AT 6 INCHES ON CENTER.
 - SIDEWALK CROSS SLOPES SHALL BE DESIGNED AT 1.5% WITH A MAXIMUM CONSTRUCTED SLOPE OF 2.0%.
 - OBSTRUCTIONS SUCH AS LIGHT POLES SHALL NOT BE PERMITTED WITHIN THE SIDEWALK.
 - LINEAR SLOPES, RAMPS, ETC. SHALL COMPLY WITH CURRENT ADA STANDARDS.
 - SIDEWALK CONCRETE SHALL BE A MIN. 3,000 PSI.
- 2. DRAINAGE DITCHES:**
 - ALL DRAINAGE DITCH SLOPES SHALL BE DESIGNED WITH A SLOPE OF 1 TO 4 (V TO H) EXCEPT AS NOTED BELOW.
 - DRAINAGE DITCH SHALL HAVE A MAXIMUM SLOPE OF 1 TO 2.5 (V TO H) WHEN 1 TO 4 CANNOT BE ACHIEVED DUE TO RIGHT OF WAY LIMITS.
 - DITCH BOTTOM WIDTH SHALL BE A MIN. 3 FEET WIDE UNLESS DESIGN CALCULATIONS REQUIRE WIDER.
- 3. UTILITY/DRAINAGE CUTS AND ROAD REPAIRS:**
 - MAXIMUM SIZE OF TEMPORARY REPAIR PATCHES WITHOUT MILL AND RESURFACE SHALL NOT EXCEED:
 - 7 FEET IN ANY DIRECTION, OR
 - 15 SQUARE FEET IN AREA.
 - WHEN THE PAVEMENT REPLACEMENT SIZE EXCEEDS 3.A ABOVE, THE RECONSTRUCTION MAY BE DONE IN TWO PHASES.
 - PHASE 1 CUT PAVEMENT AT TRENCH WIDTH PLUS ONE FOOT EACH SIDE. COMPACT BACKFILL AND ROAD BASE. PATCH WITH ASPHALT.
 - PHASE 2 WITHIN 3 MONTHS (OR PRIOR TO END OF THE CURRENT PHASE OF DEVELOPMENT) MILL AND PER TECHNICAL DETAIL AND NOTES.
- PAVED ROAD CUTS LESS THAN 100 FEET APART (CENTER TO CENTER) SHALL BE RESURFACED AS ONE.
- A MAXIMUM OF FOUR (4) PAVEMENT CUTS WITHIN ANY 1,000 FOOT LENGTH IS PERMITTED WITHOUT FULL LENGTH RESURFACING. GREATER THAN FOUR CUTS WILL REQUIRE CONTINUOUS MILL AND RESURFACE FOR ALL TRAVEL IMPACTED.
- ANY PAVEMENT CUT GREATER THAN A PATCH SIZE NOTED IN 4.A ABOVE SHALL BE MILLED AND RESURFACED THE FULL WIDTH OF THE TRAVEL LANE. (SEE UTILITY CUT DETAIL)
- NO PAVEMENT SHALL BE ADDED TO EXISTING PAVEMENT WITHOUT A FULL RESURFACING OF THE TRAVEL LANE WHERE PAVEMENT IS ADDED.
- TEMPORARY REPAIR PATCHES ARE PERMITTED AS NOTED ON THE "UTILITY/DRAINAGE CUT DETAIL" SHEETS PROVIDED THAT THE FINAL MILLING AND RESURFACING OF THE LANE(S) IS COMPLETED WITHIN 3 MONTHS OF CONSTRUCTION.
- REPLACE ALL PAVEMENT MARKINGS

- PAVEMENT MARKINGS AND TRAFFIC SIGNS SHALL COMPLY WITH CURRENT MUTCD AND FDOT STANDARDS. ALL SIGN PANELS SHALL UTILIZE 3MTM REFLECTIVE SHEETING 3930 SERIES HIP HI INTENSITY OR 4090 SERIES DG³ DIAMOND GRADE CUBED OR APPROVED EQUAL.
- ASPHALT MIX SHALL BE SUPERPAVE PER SECTION 334 (OR AS REVISED) FDOT STANDARDS.
- ROADWAY BASE AND SUB-BASE MATERIAL SHALL COMPLY WITH FDOT STANDARDS OR AS APPROVED BY SARASOTA COUNTY ENGINEER PRIOR TO PLANS APPROVAL.
- ALL ROADWAY AND ASSOCIATED ELEMENTS WITHIN THE RIGHT OF WAY SHALL BE DESIGNED AND CONSTRUCTED PER FDOT CURRENT STANDARDS AND SPECIFICATIONS EXCEPT AS NOTED WITHIN THIS COUNTY TECHNICAL STANDARD.
- NO WORK MAY BE PERFORMED IN COUNTY RIGHT OF WAY WITHOUT FIRST SECURING A COUNTY RIGHT OF WAY USE PERMIT. A TEMPORARY TRAFFIC CONTROL PLAN (TTCP) MUST ALSO BE SUBMITTED WITH DESIGN PLANS WHEN THE WORK IS WITHIN THE PAVEMENT OR SHOULDERS OF THE ROAD OR MAY DISRUPT TRAFFIC. A TTCP IS REQUIRED TO BE SUBMITTED TO THE COUNTY WITH OR WITHOUT CONSTRUCTION PLANS FOR OPEN CUTTING OF A ROAD. NO CONSTRUCTION MAY BE STARTED UNTIL THE TTCP IS APPROVED BY APPROPRIATE STAFF OF THE PUBLIC WORKS DEPT. OR PLANNING AND DEVELOPMENT SERVICES DEPT.
- ALL CONSTRUCTION WITHIN THE COUNTY RIGHT OF WAY SHALL BE DOCUMENTED WITH AS-BUILT DRAWINGS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER OR SURVEYOR. AS-BUILT DRAWINGS DETAILS SHALL BE PER COUNTY STANDARDS. PRIVATE DRIVEWAYS, SIDEWALKS, BUS PADS AND OTHER MINOR ITEMS SHALL BE EXEMPT FROM THIS REQUIREMENT.
- ALL UTILITY RELATED WORK SHALL COMPLY WITH THE FDOT UTILITY ACCOMMODATION MANUAL (UAM) - CURRENT VERSION.

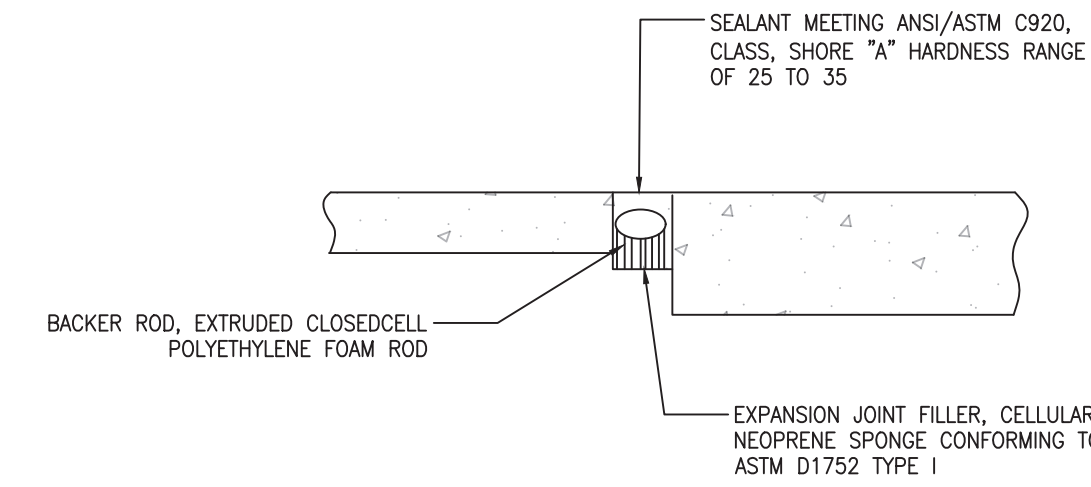


CONCRETE ACCESS DRIVEWAY

N.T.S.

NOTES:

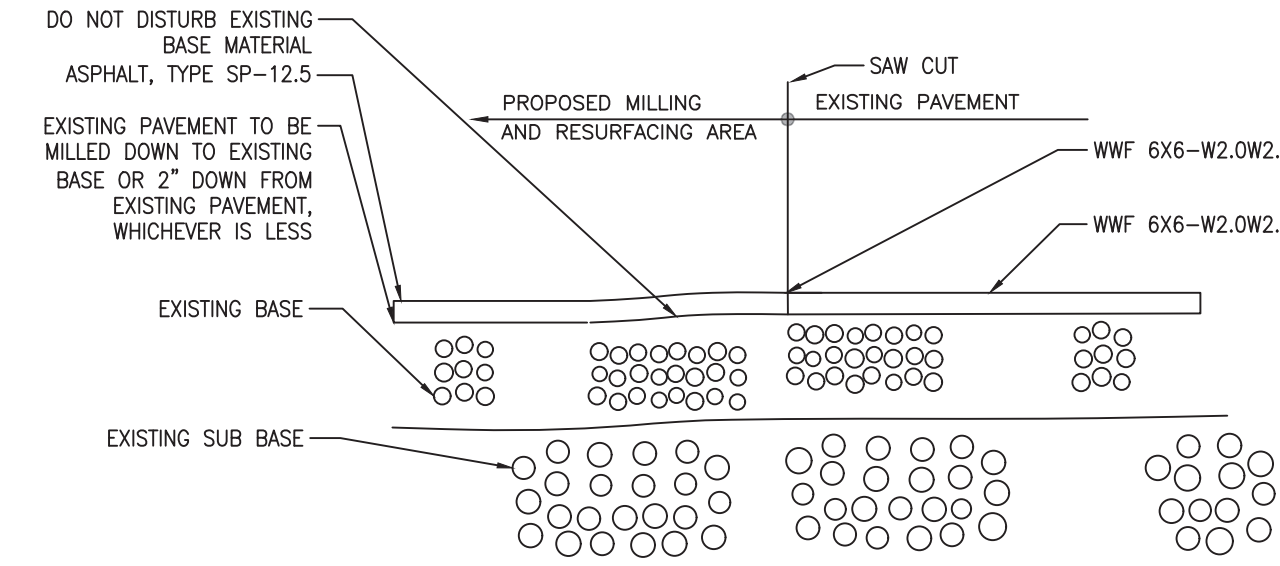
- WWF SHALL BE PLACED AS FLAT PANELS. NO ROLLS WILL BE ALLOWED. WWF PANELS SHALL BE LAPPED A MINIMUM OF 12" AND BE CONTINUOUS THROUGH CONTRACTION JOINTS.
- SAW CUT 1/8" WIDE BY 2" DEEP CONTRACTION JOINTS IN CONCRETE AFTER CURED. CUT EVENLY SPACED GROOVES AT 20 FT SPACING.
- INSTALL BITUMINOUS EXPANSION JOINT AROUND PERIMETER OF CONCRETE PAD.



NOTES:
CONTRACTOR SHALL SUBMIT EXPANSION JOINT PRODUCT DATA SHEETS FOR REVIEW AND APPROVAL.

EXPANSION JOINT DETAIL

N.T.S.

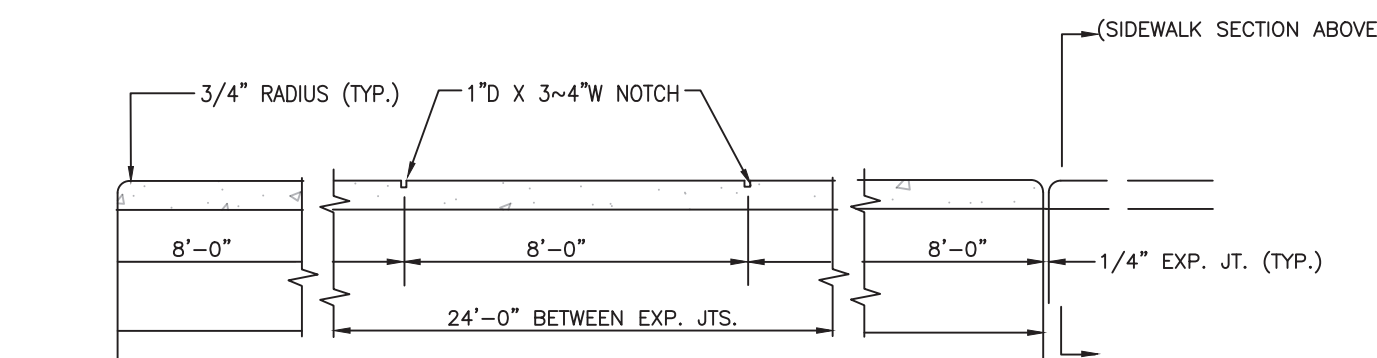


NOTES:

- TYPICAL DETAIL FOR AREAS TO BE MILLED AND RE-SURFACED.
- AT LOCATIONS WHERE OVERLAY WILL TIE-IN TO EXISTING PAVEMENT, CONTRACTOR SHALL SAW-CUT OR MILL A CLEAN STRAIGHT EDGE OF THE EXISTING PAVEMENT (TYP) ALONG THE PROPOSED RESURFACE AREA, AND MATCH THE EXISTING PAVEMENT.

TYPICAL PAVEMENT MILLING AND RESURFACING

N.T.S.

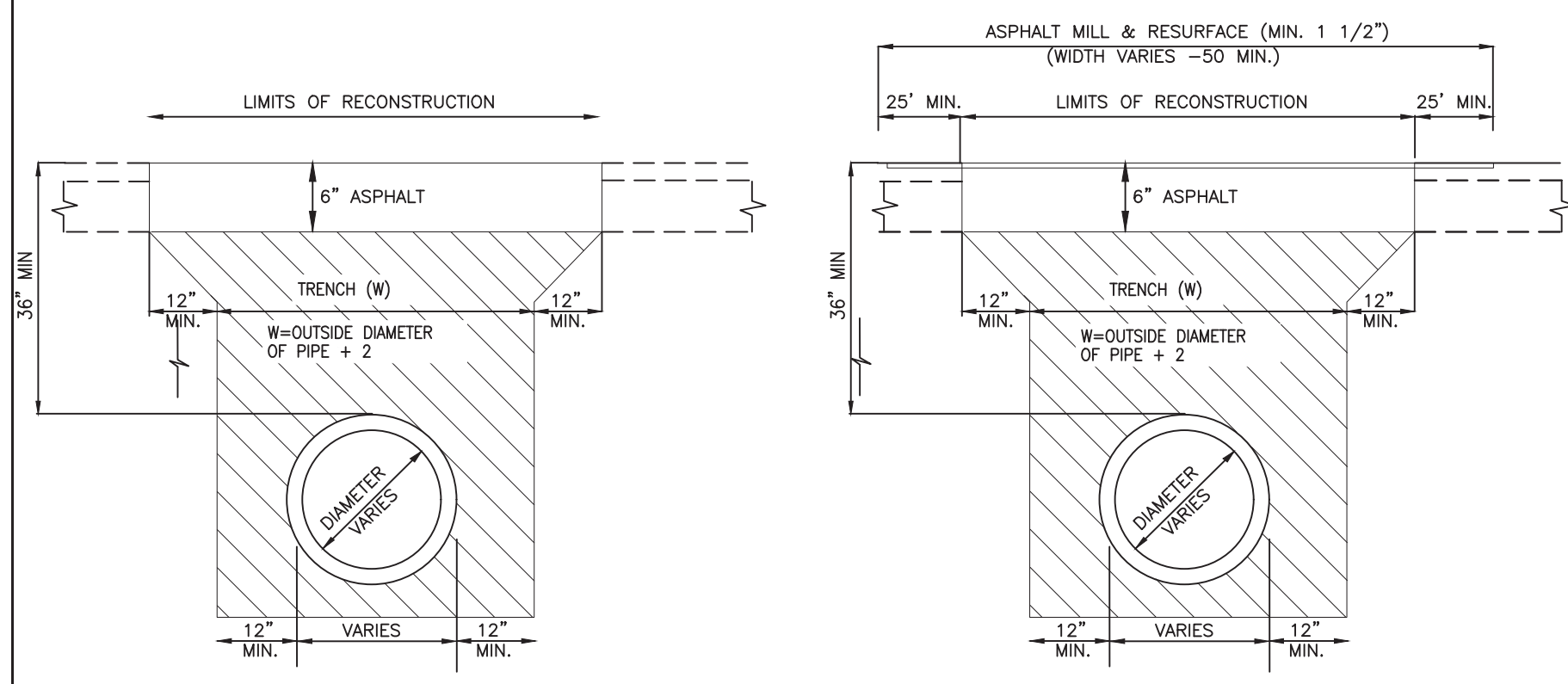
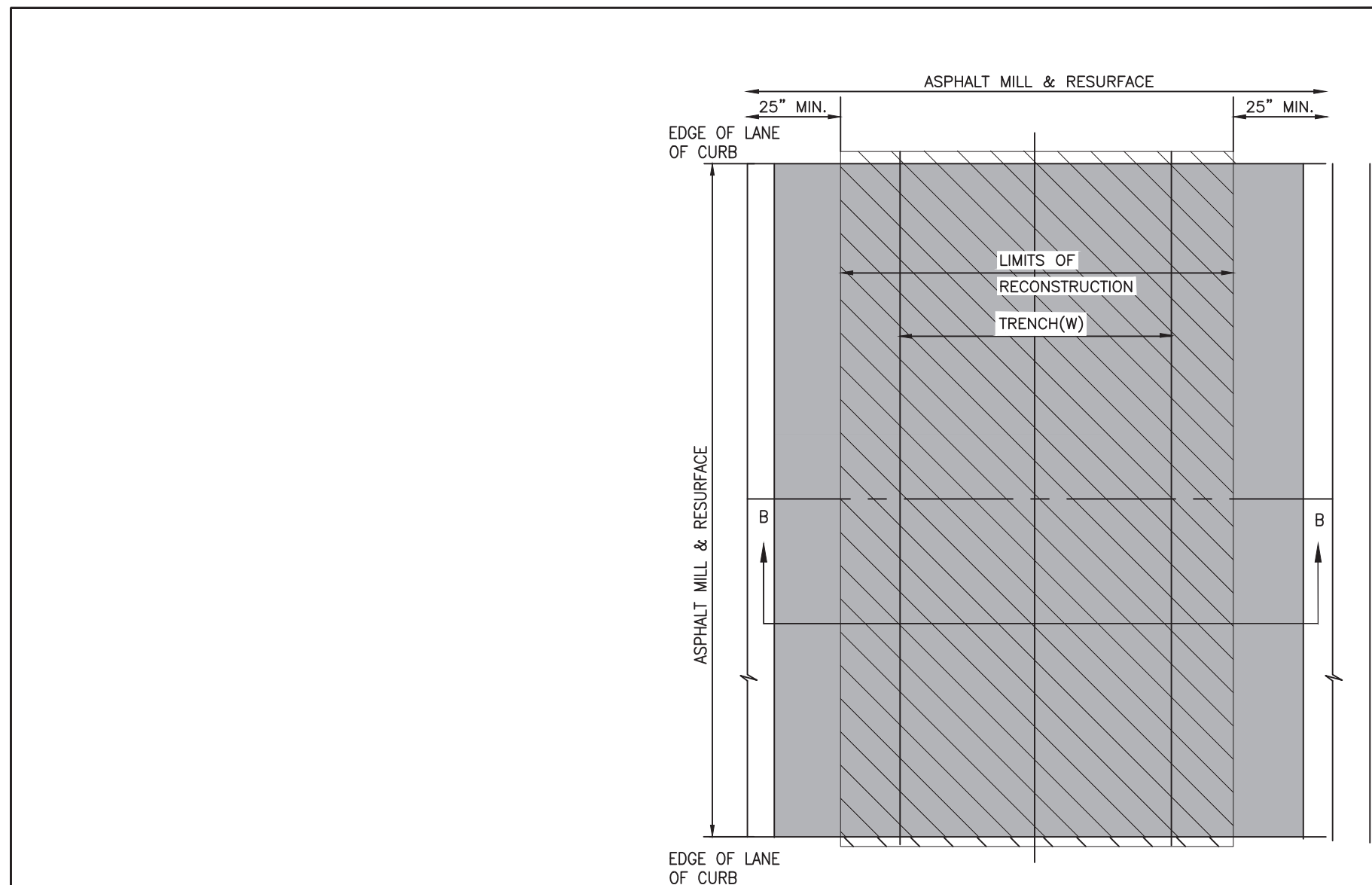


NOTES:

THE CONTRACTOR SHALL CONSTRUCT AN EXPANSION JOINT - AT SPACINGS SHOWN ABOVE, AT THE END OF DAYS WORK, POINTS OF CURVATURE, AND AT ADJOINING STRUCTURES.

SIDEWALK DETAIL

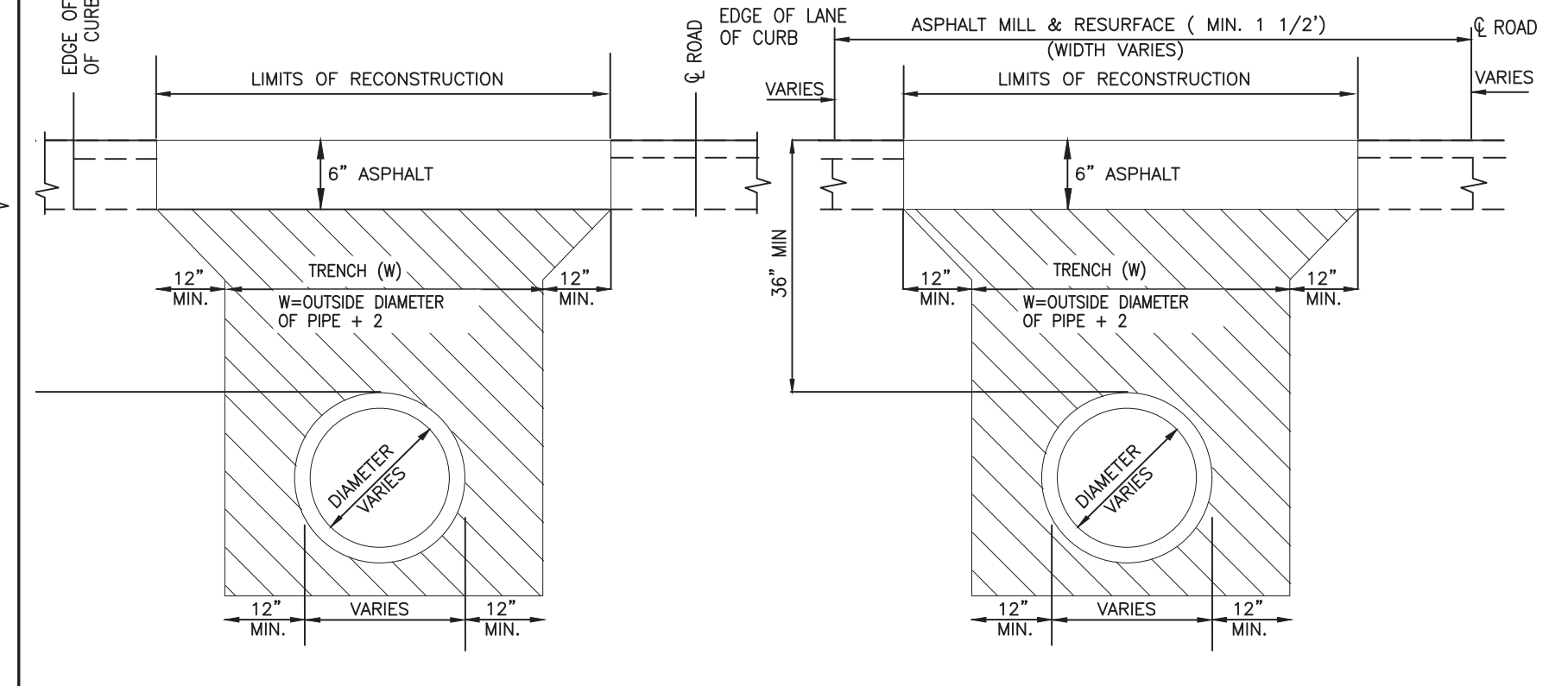
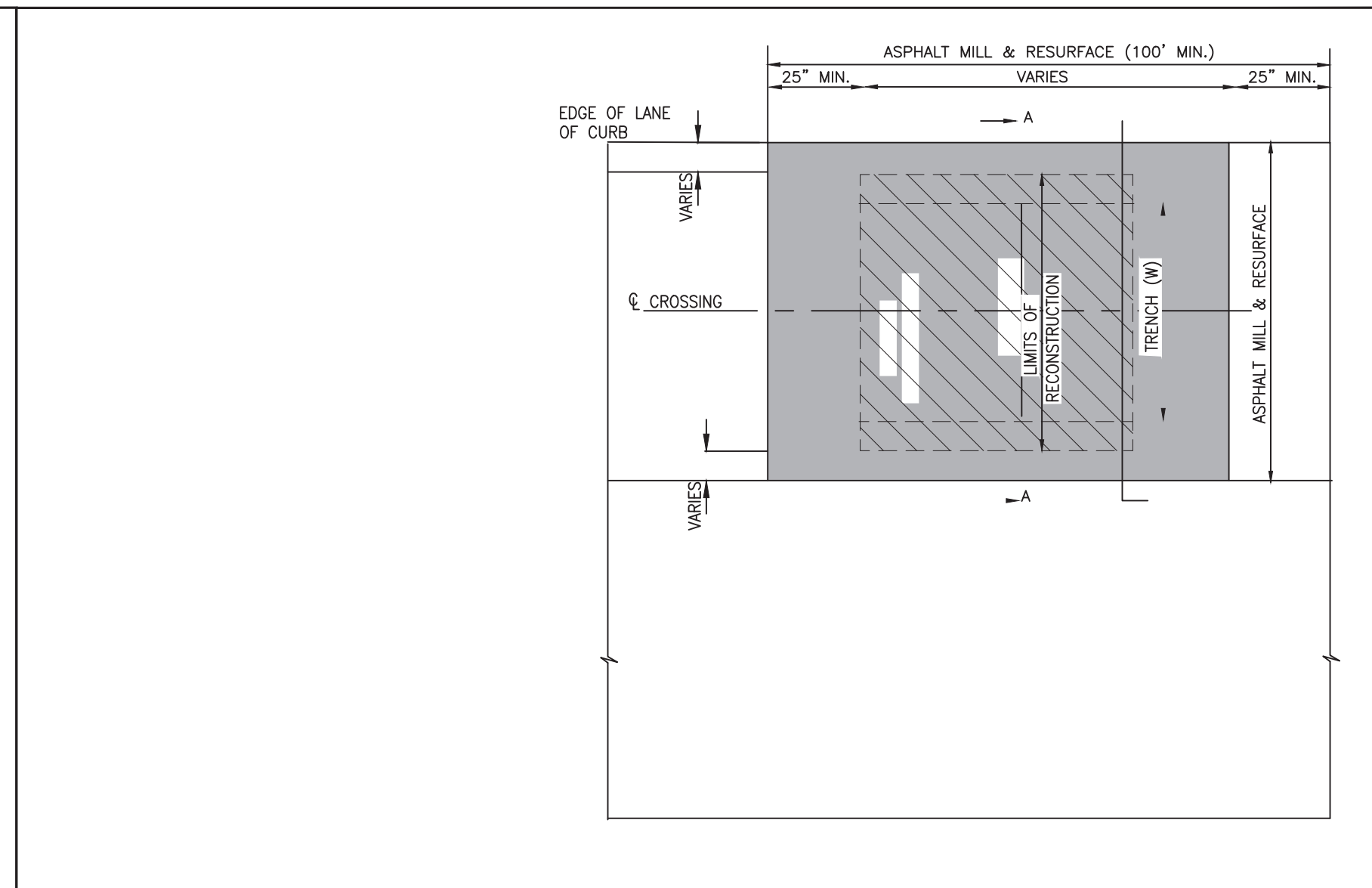
N.T.S.



NOTES:

- PREFERRED METHOD OF BACKFILL IS NON-STRUCTURAL FLOWABLE FILL. MIX SHALL BE APPROVED BY SARASOTA COUNTY.
- COMPACT ALL BACKFILL AND BASE TO 98% MODIFIED PROCTOR.
- SEE GENERAL NOTES.
- PAVEMENT THICKNESS AND TYPE SHALL MATCH EXISTING OR PROPOSED PAVEMENT THICKNESS, BUT MUST NOT BE LESS THAN 6" OF ASPHALT.

NOT TO SCALE



NOTES:

- PREFERRED METHOD OF BACKFILL IS NON-STRUCTURAL FLOWABLE FILL. MIX SHALL BE APPROVED BY SARASOTA COUNTY.
- COMPACT ALL BACKFILL AND BASE TO 98% MODIFIED PROCTOR.
- SEE GENERAL NOTES.
- PAVEMENT THICKNESS AND TYPE SHALL MATCH EXISTING OR PROPOSED PAVEMENT THICKNESS, BUT MUST NOT BE LESS THAN 6" OF ASPHALT.

NOT TO SCALE

CONSULTANTS



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SARASOTA COUNTY, FLORIDA
SARASOTA COUNTY
PUBLIC UTILITIES
DEPARTMENT

HOME DEPOT MPS
AND FM

100% BID SUBMITTAL

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2024

DATE: DECEMBER 2025
PROJECT NO.: 30036073
FILE NAME: C-17
DESIGNED BY: A MEHER, S TOPOVSKI
DRAWN BY: SHIVAKUMAR
CHECKED BY: D WILSON, B VEITH

SHEET TITLE

CIVIL

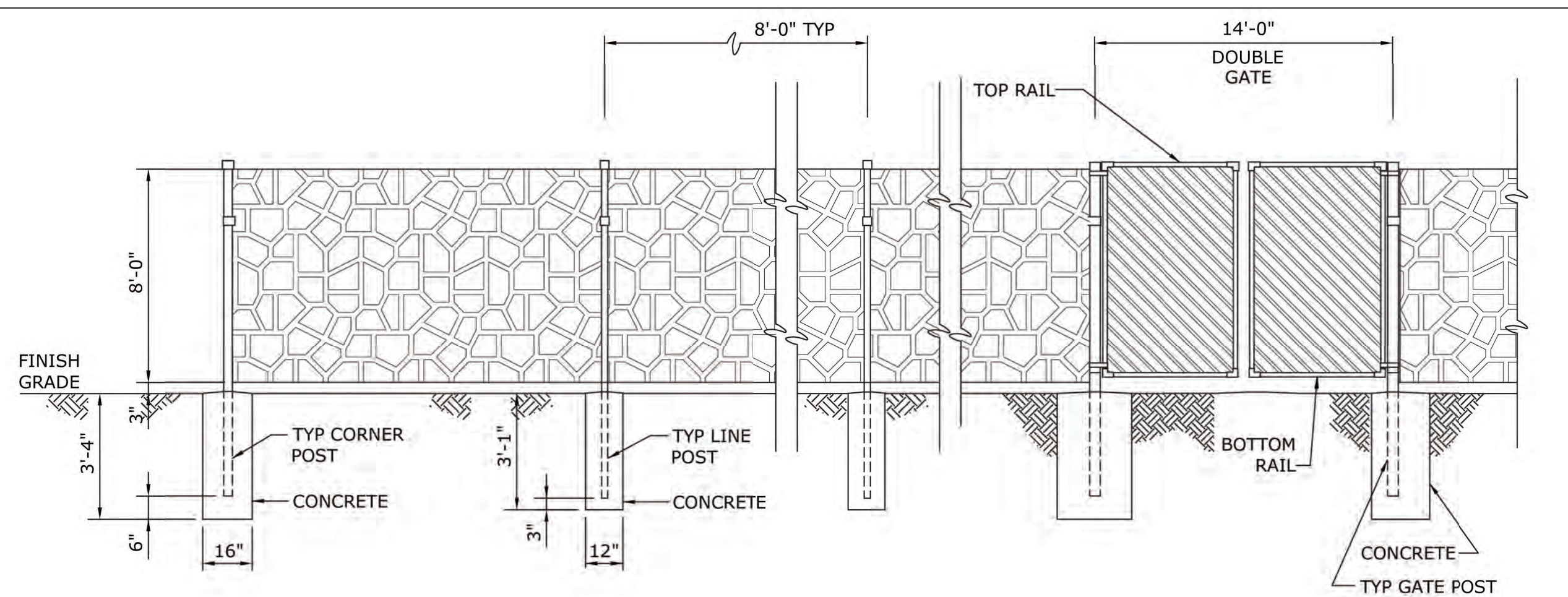
DETAILS-3

SCALE: AS SHOWN

C-17

SHEET 21 OF 60

User: J05HYC4656 Spec: AUS-NSM00D File: C:\USERS\J05HYC4656\DC\ACCDCS\ARCADIS\AUS-30036073-HOME DEPOT_LS AND_FM\PROJECT FILES\0_MIP\01\18.DWG Scale: 1:1 Saved Date: 12/22/2025 Time: 12:13 Plot Date: 12/22/2025 12:40 Layout: C-17



NOTES:

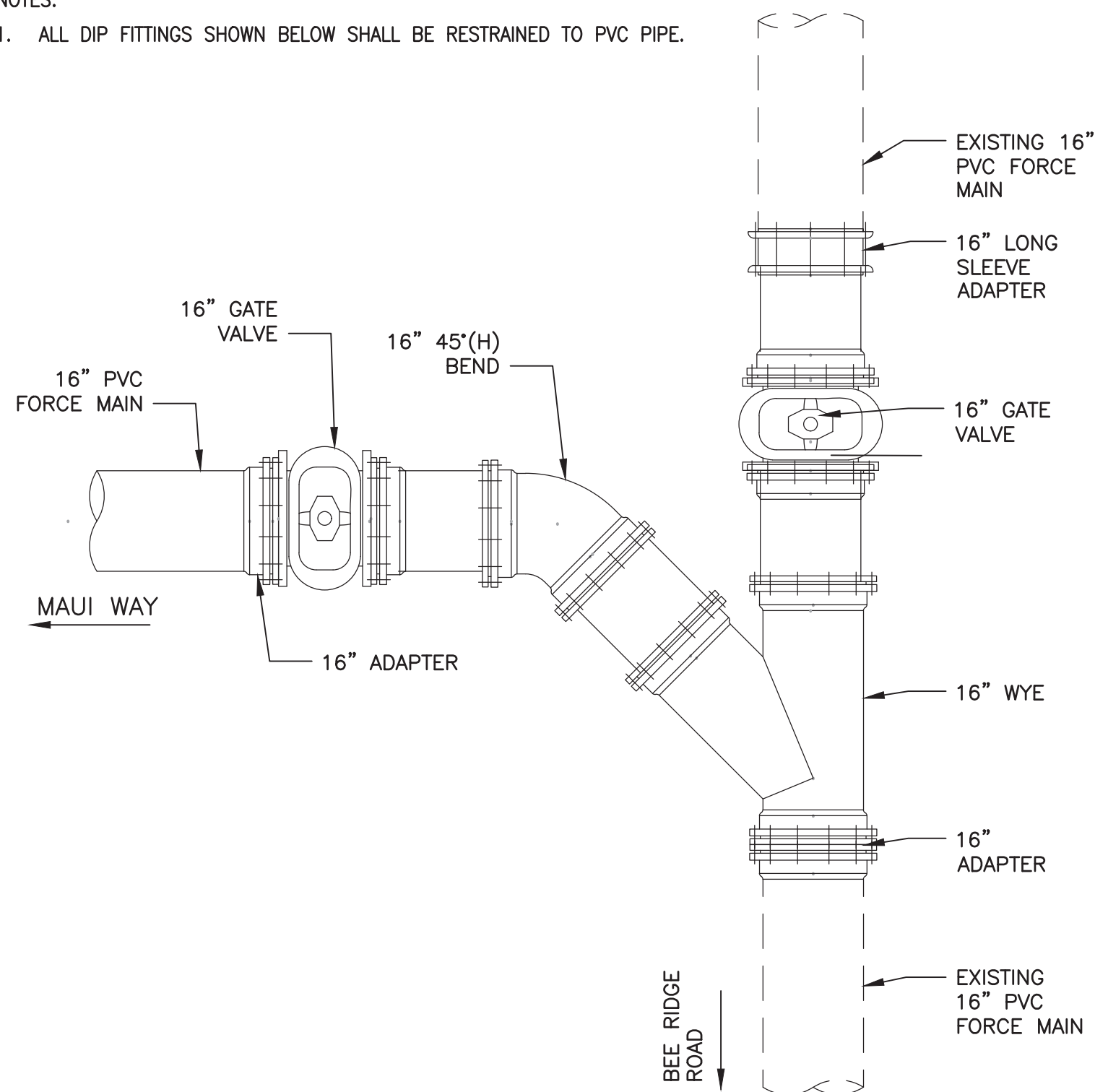
1. PROVIDE LATCHING DEVICES TO HOLD GATES IN OPEN POSITION.
2. FENCING SYSTEM SHALL BE LOW DENSITY POLYETHYLENE, REINFORCED WITH GALVANIZED STEEL WITH LIFETIME WARRANTY AGAINST FADING, CRACKING AND WARPING.
3. FENCE SYSTEM SHALL BE CERTIFIED TO DADE COUNTY, FLORIDA HURRICANE REQUIREMENTS.
4. FENCE SYSTEM SHALL PROVIDE A SOUND TRANSMISSION CLASS RATING (STC) OF 26.
5. FENCE SYSTEM SHALL BE ECO STONE PLUS FENCE BY SIM TEK FENCE, OR APPROVED EQUAL.
6. FENCE SYSTEM SHALL BE INSTALLED PER THE FENCE MANUFACTURER'S RECOMMENDATIONS, CONCRETE DIMENSIONS SHOWN IN THE DETAIL ARE A MINIMUM AND ADDITIONAL CONCRETE SHALL BE USED PER THE FENCE MANUFACTURER'S RECOMMENDATIONS.
7. GATES SHALL BE VINYL-COATED CHAIN-LINK TYPE WITH PRIVACY SLATS. FENCE SHALL BE GALVANIZED CHAIN LINK (ASTM A392) 9 GAUGE WITH 2" MESH AND COATED POLYMER ACCORDING TO ASTM F668 CLASS 2b.
8. GATES SHALL SWING INWARDS A MINIMUM OF 120 DEGREES. THE GATES WILL REQUIRE ALUMINUM FRAMES AND BRACING TO ACCOMMODATE THE SPANS WITH CENTERING CANE BOLTS TO SECURE.

POLYETHYLEYNE FENCE DETAILS

N.T.S.

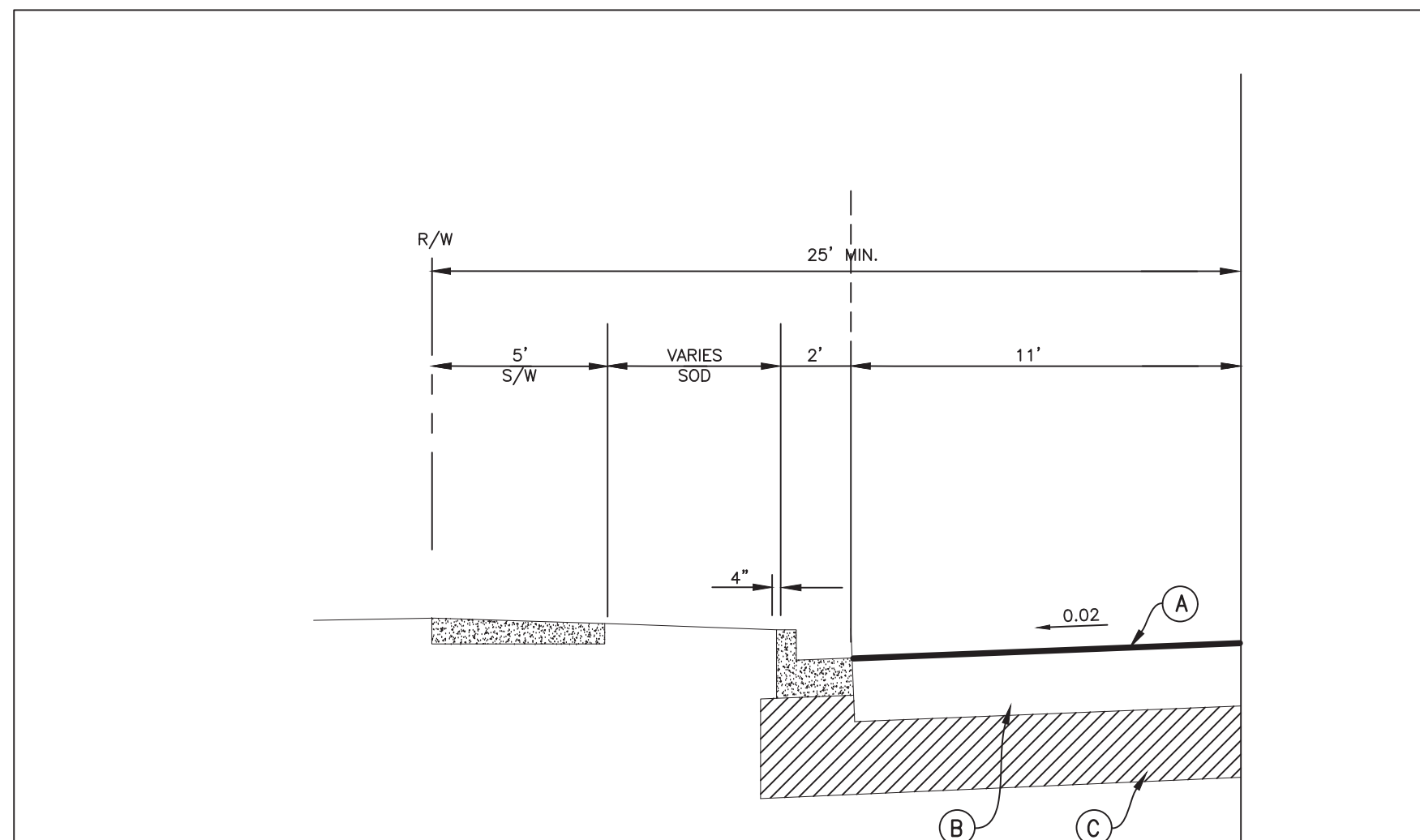
NOTES:

1. ALL DIP FITTINGS SHOWN BELOW SHALL BE RESTRAINED TO PVC PIPE.



16" FORCE MAIN TIE-IN MAUI WAY AT BEE RIDGE ROAD

N.T.S.



NOTES:

1. PAVEMENT REPLACEMENT SHALL BE 1.5" SUPERPAVE (TRAVEL LEVEL B)
2. BASE GROUP #6 MIN. (SEE FDOT FLEXIBLE PAVEMENT DESIGN MANUAL, CURRENT EDITION)
3. 12" TYPE B STABILIZATION (LBR 40)

TYPICAL ROADWAY SECTION (BIKINI RD. & MAUI WAY)

N.T.S.

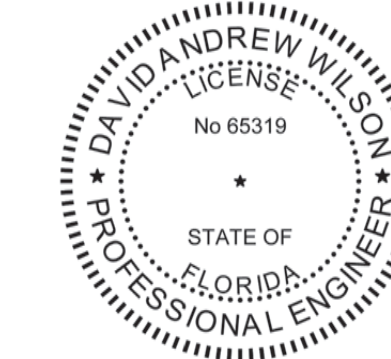
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HOME DEPOT MPS
AND FM

100% BID SUBMITTAL

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DATE: DECEMBER 2025
PROJECT NO.: 30036073
FILE NAME: C-18
DESIGNED BY: A MEHER, S TOPOVSKI
DRAWN BY: SHIVAKUMAR
CHECKED BY: D WILSON, B VEITH

SHEET TITLE

CIVIL

DETAILS-4

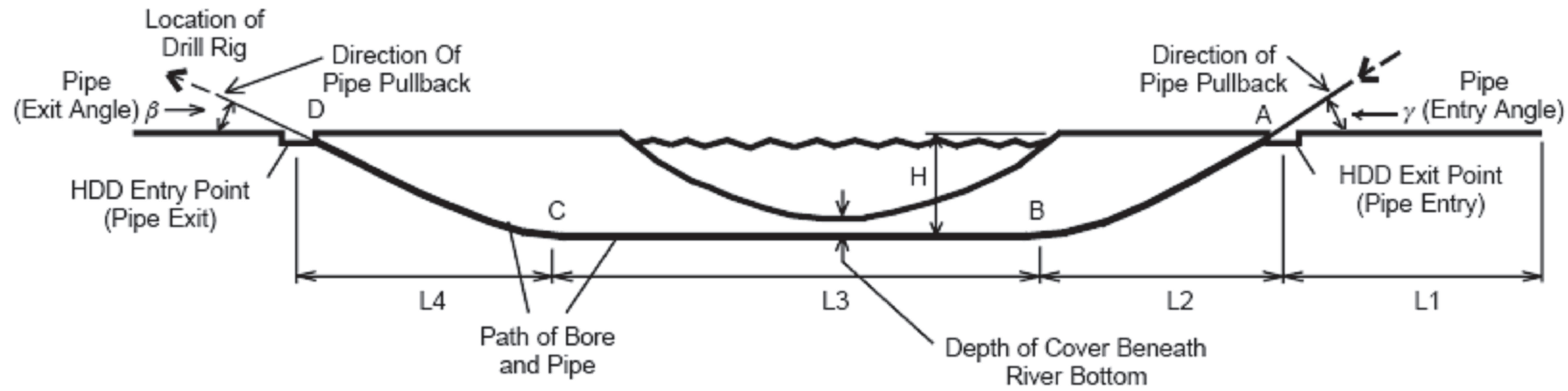
SCALE: AS SHOWN

C-18

SHEET 22 OF 60

HOME DEPOT FORCE MAIN
100% I-75 DRILL CALCULATIONS

HDD DESIGN CALCULATIONS (SLAVIN'S METHOD)



Pipe Properties:

Outside Diameter, OD =	18.000	in
Standard Dimension Ratio, DR =	11	
Minimum Wall Thickness, t =	1.582	in
Long-term Modulus, Elong =	28,250	psi
24 hr Modulus, E24hr =	56,500	psi
Poisson's Ratio (long term), μ =	0.45	
Safe Pull Stress (24 hr), σ_{pb} =	1,100	psi

Path Profile:

Depth of Bore, H =	16.0	ft
Pipe Entry Angle, α_{in} =	10.0	deg = 0.1745 radians
Pipe Exit Angle, α_{ex} =	10.0	deg = 0.1745 radians
Pipe Drag on Surface, L1 =	415.0	ft
Length of Drill (L2+L3+L4), Lcross =	1,100.00	ft

Path Length (Determine L2 and L4):

Average Radius of Curvature for Path at Pipe Entry (α in radians)

$$R_{avgin} = 2H/\alpha_{in}^2 = 1,050.5 \text{ ft}$$

Average Radius of Curvature for Path at Pipe Exit (α in radians)

$$R_{avgex} = 2H/\alpha_{ex}^2 = 1,050.5 \text{ ft}$$

Horizontal Distance Required to Achieve Depth or Rise to the Surface at Pipe Entry

$$L2 = 2H/\alpha_{in} = 183.3 \text{ ft}$$

Horizontal Distance Required to Achieve Depth or Rise to the Surface at Pipe Exit

$$L4 = 2H/\alpha_{ex} = 183.3 \text{ ft}$$

Where: L2 & L4 = Horizontal Transition Distance at Bore Entry and Exit, Respectively

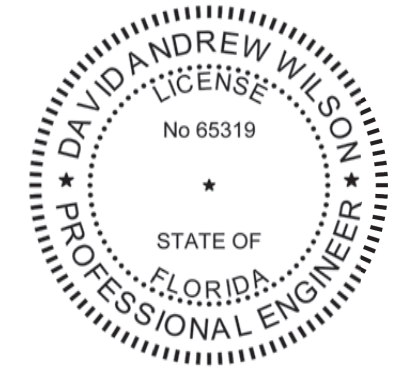
Axial Bending Stress:

Minimum Radius for Drill Path, R =	1,050.5	ft
Pipe OD =	17.400	in
Radius of Curvature Should Exceed 40 x Pipe OD to Prevent Ring Collapse		
40 x Pipe OD, r =	58.0	ft
check R > r:		OK!

Bending Strain, $\epsilon_a = OD/2R =$	0.000690	in/in
Bending Stress, $\sigma_a = E24h\epsilon_a =$	39.0	psi

Horizontal Length To Cross FDOT Right-Of-Way, L3:

L1 =	340.00	ft
L2 =	183.35	ft
L4 =	183.35	ft
L3 = Lcross - L2 - L4 =	733.31	ft



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HOME DEPOT MPS
AND FM

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FILE NAME:	C-19
DESIGNED BY:	ARPITA MEHER
DRAWN BY:	SHIVAKUMAR
CHECKED BY:	DAVID WILSON

SHEET TITLE

CIVIL

HDD CALCULATIONS
I-75 DRILL

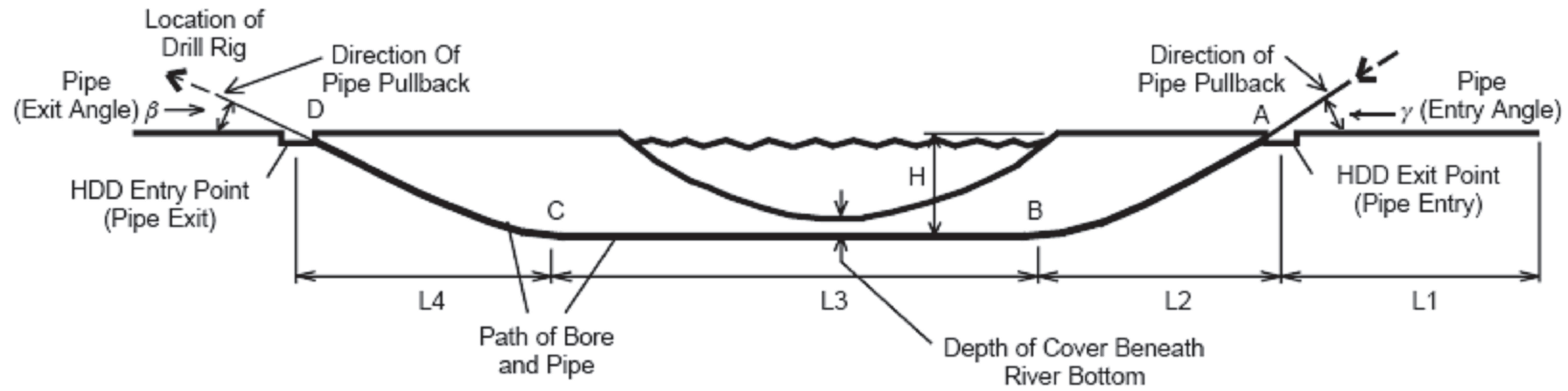
SCALE:
AS SHOWN

C-19

SHEET 23 OF 60

HOME DEPOT FORCE MAIN
CROSS CREEK DRILL CALCULATIONS

HDD DESIGN CALCULATIONS (SLAVIN'S METHOD)



Pipe Properties:

Outside Diameter, OD =	18.000	in
Standard Dimension Ratio, DR =	11	
Minimum Wall Thickness, t =	1.582	in
Long-term Modulus, Elong =	28,250	psi
24 hr Modulus, E24hr =	56,500	psi
Poisson's Ratio (long term), μ =	0.45	
Safe Pull Stress (24 hr), σ_{pb} =	1,100	psi

Path Profile:

Depth of Bore, H =	10.0	ft
Pipe Entry Angle, α_{in} =	10.0	deg = 0.1745 radians
Pipe Exit Angle, α_{ex} =	10.0	deg = 0.1745 radians
Pipe Drag on Surface, L1 =	150.0	ft
Length of Drill (L2+L3+L4), Lcross =	275.0	ft

Path Length (Determine L2 and L4):

Average Radius of Curvature for Path at Pipe Entry (α in radians)

$$R_{avgin} = 2H/\alpha_{in}^2 = 656.6 \text{ ft}$$

Average Radius of Curvature for Path at Pipe Exit (α in radians)

$$R_{avgex} = 2H/\alpha_{ex}^2 = 656.6 \text{ ft}$$

Horizontal Distance Required to Achieve Depth or Rise to the Surface at Pipe Entry

$$L2 = 2H/\alpha_{in} = 114.6 \text{ ft}$$

Horizontal Distance Required to Achieve Depth or Rise to the Surface at Pipe Exit

$$L4 = 2H/\alpha_{ex} = 114.6 \text{ ft}$$

Where: L2 & L4 = Horizontal Transition Distance at Bore Entry and Exit, Respectively

Axial Bending Stress:

Minimum Radius for Drill Path, R =	656.6	ft
Pipe OD =	17.400	in
Radius of Curvature Should Exceed 40 x Pipe OD to Prevent Ring Collapse		
40 x Pipe OD, r =	58.0	ft
check R > r:		OK!

Bending Strain, $ea=OD/2R$ =	0.001104	in/in
Bending Stress, $sa = E24hrea$ =	62.4	psi

Horizontal Length To Cross FDOT Right-Of-Way, L3:

L1 =	150.00	ft
L2 =	114.59	ft
L4 =	45.82	ft
L3 = Lcross - L2 - L4 =	114.59	ft

User: JOSHUYC4656 Spec: AUS-NSM00b File: C:\USERS\JOSHUYC4656\DC\ACCDC05\ARCADIS\AUS-30036073-HOME DEPOT_LS AND_FM\PROJECT FILES\0_MIP\CIVIL\C-C-20.DWG Scale: 1:1 SaveDate: 12/22/2025 Time: 12:14 Plot Date: Jobby, Chaitra: 12/22/2025 12:37 : Layout: C-18



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HOME DEPOT MPS
AND FM

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DATE:	DECEMBER 2025
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FILE NAME:	C-20
DESIGNED BY:	ARPITA MEHER
DRAWN BY:	SHIVAKUMAR
CHECKED BY:	DAVID WILSON

SHEET TITLE

CIVIL

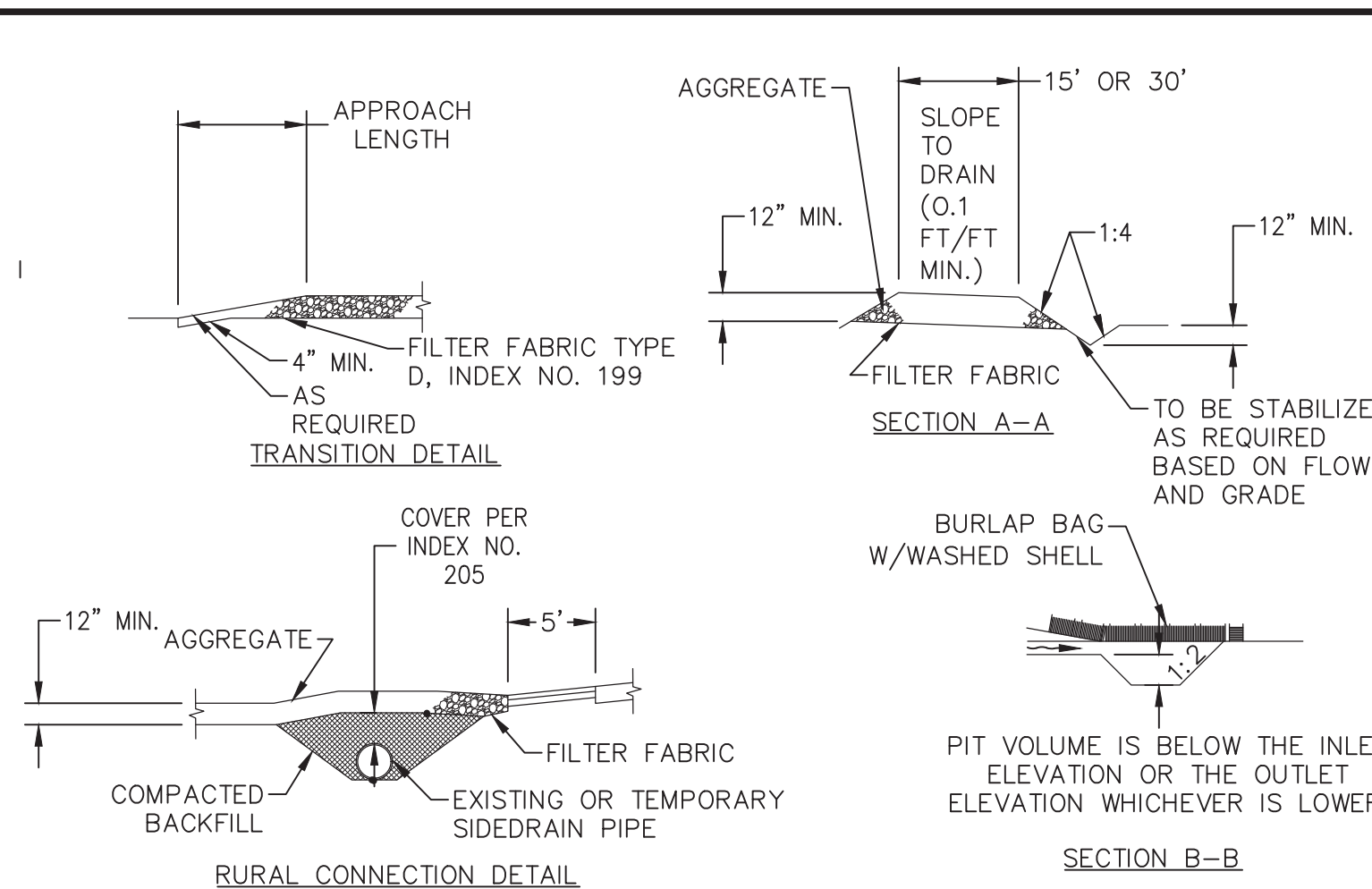
HDD CALCULATIONS
CROSS CREEK DRILL

SCALE:
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C-20

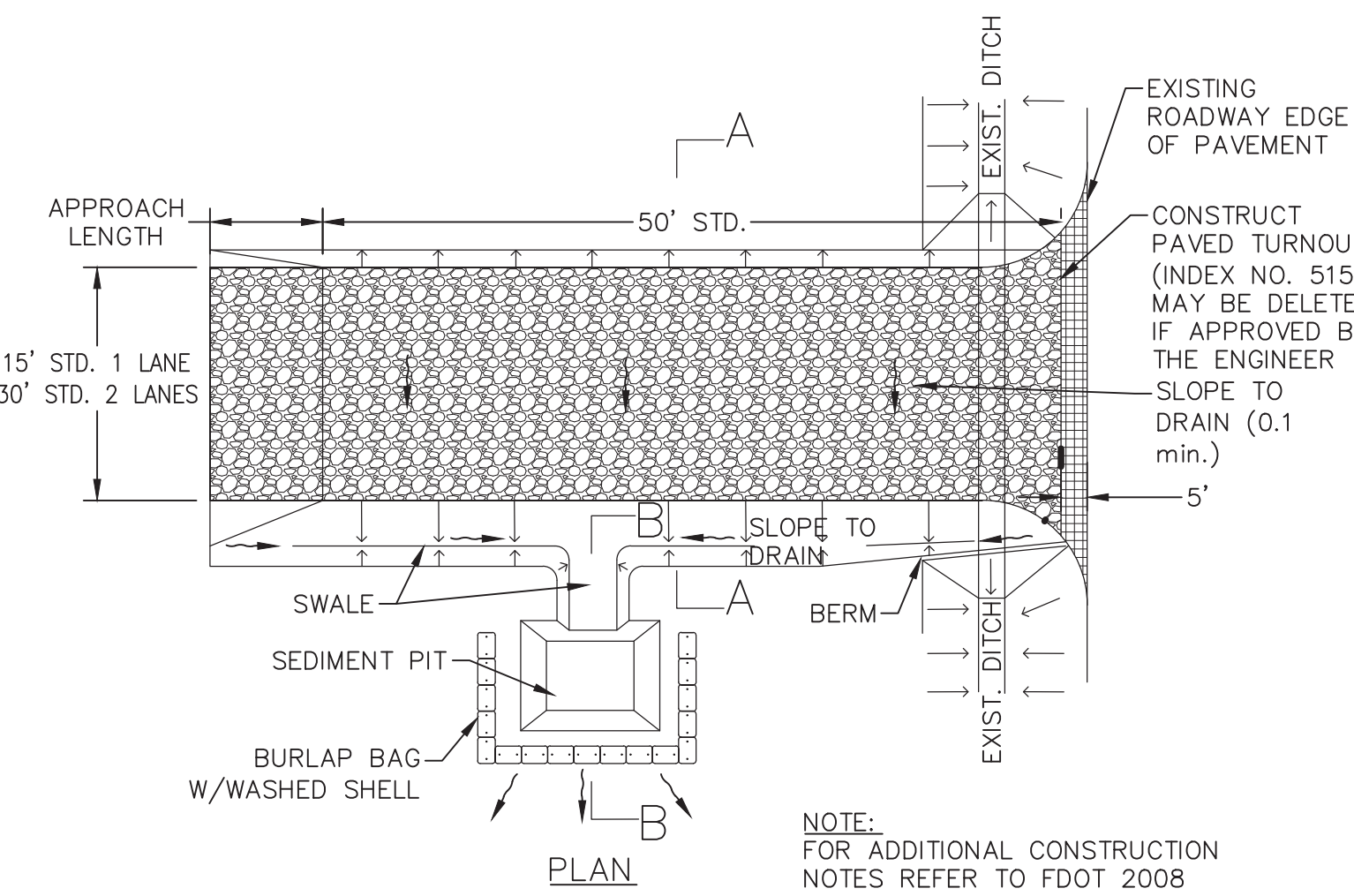
SHEET 24 OF 60

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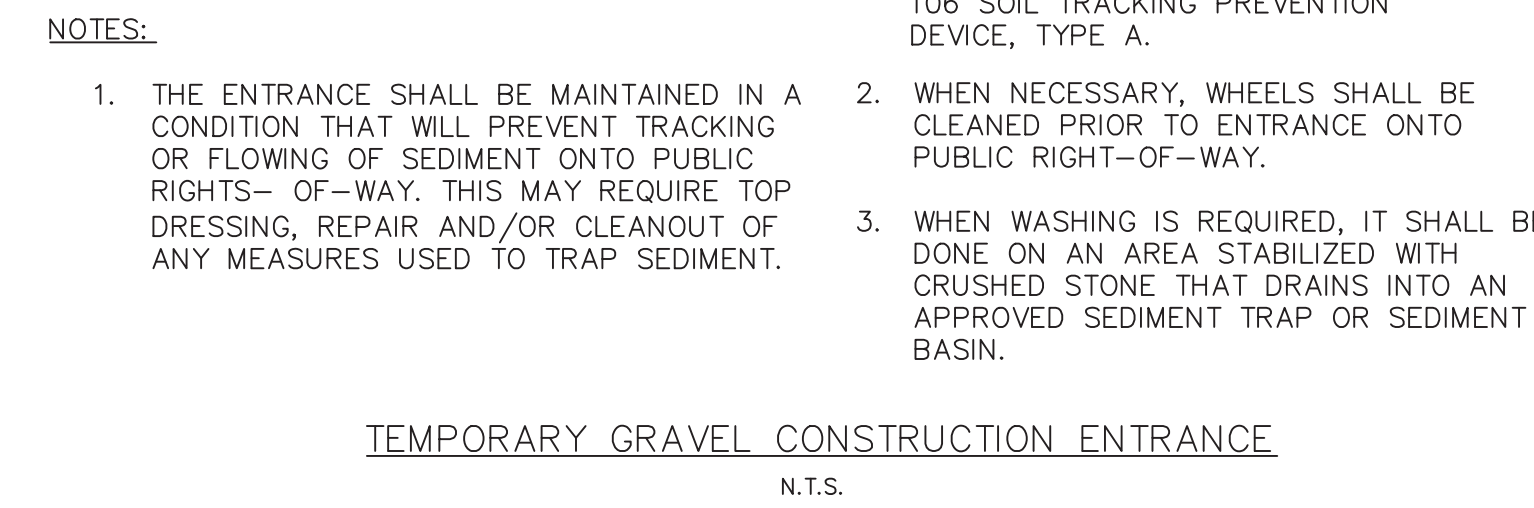
TYPICAL SILT FENCE
N.T.S.

FIGURE 2



TYPICAL SWALE SECTION
N.T.S.

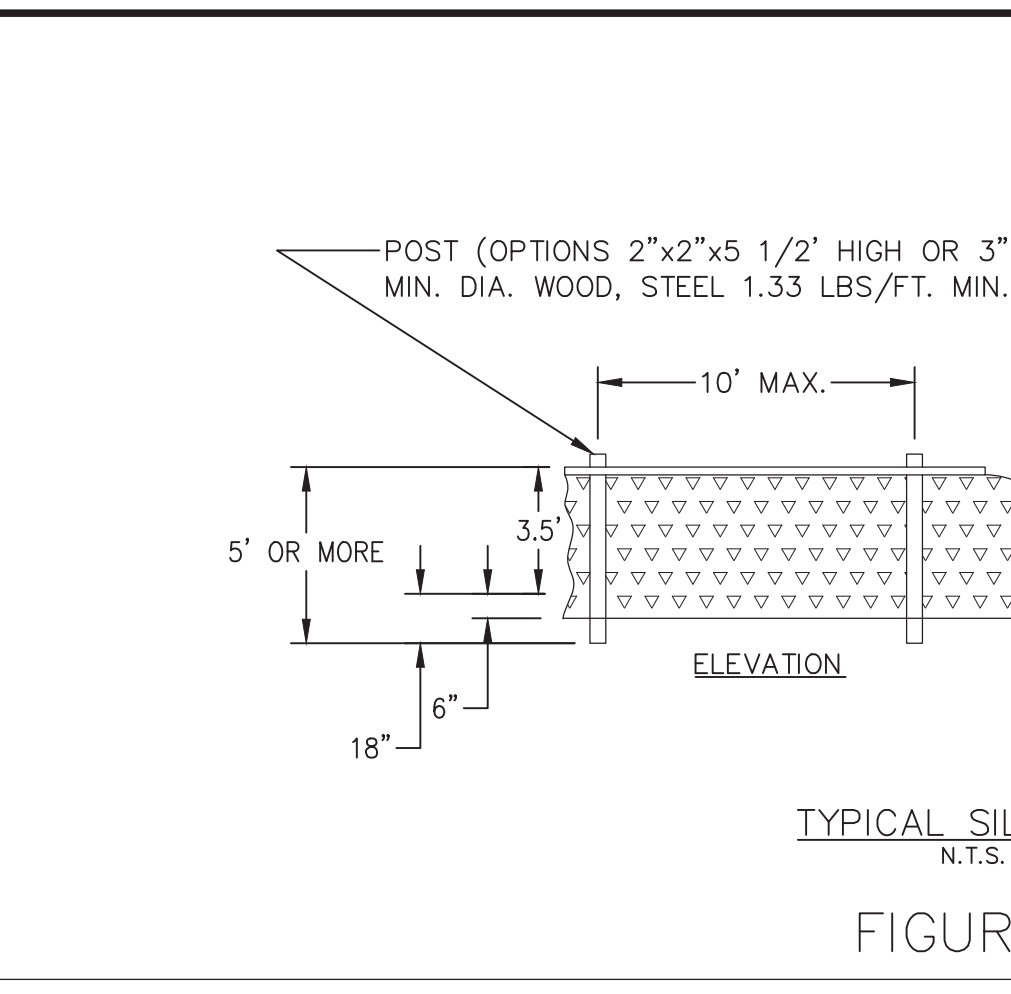
FIGURE 4



TEMPORARY GRAVEL CONSTRUCTION ENTRANCE
N.T.S.

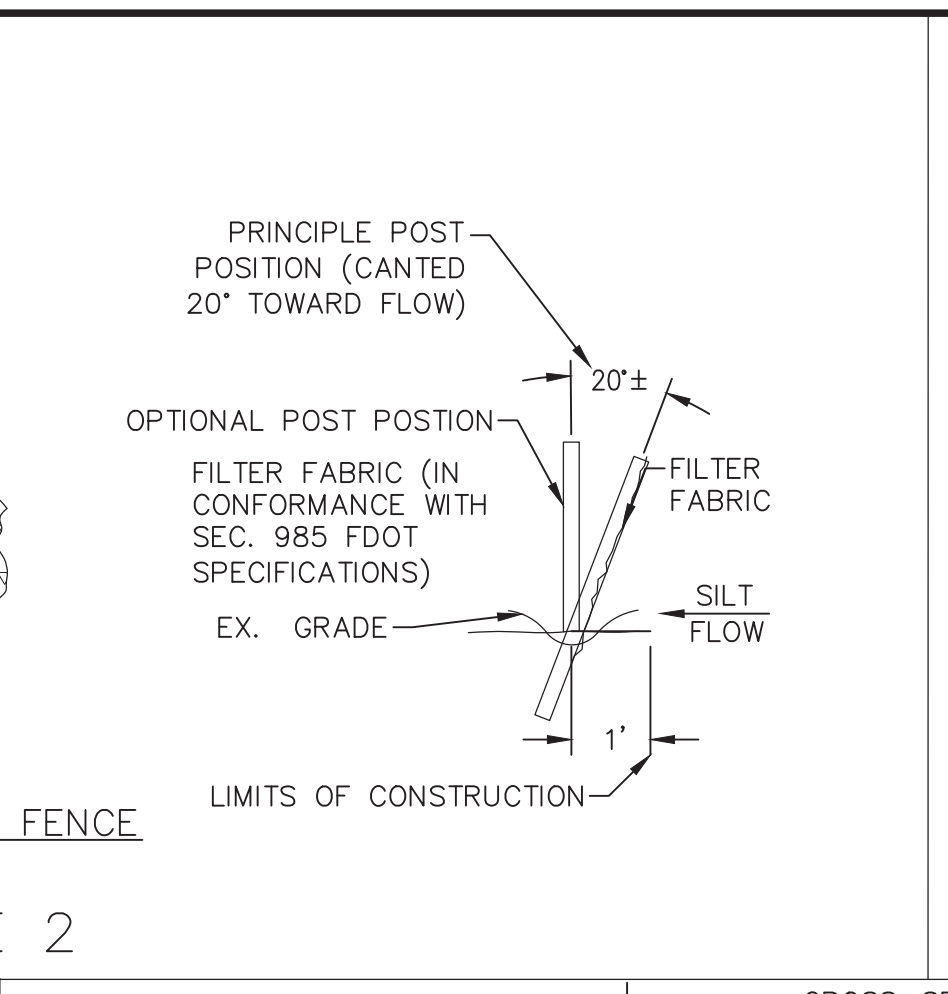
FIGURE 1

- NOTES:
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
 2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
 3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.



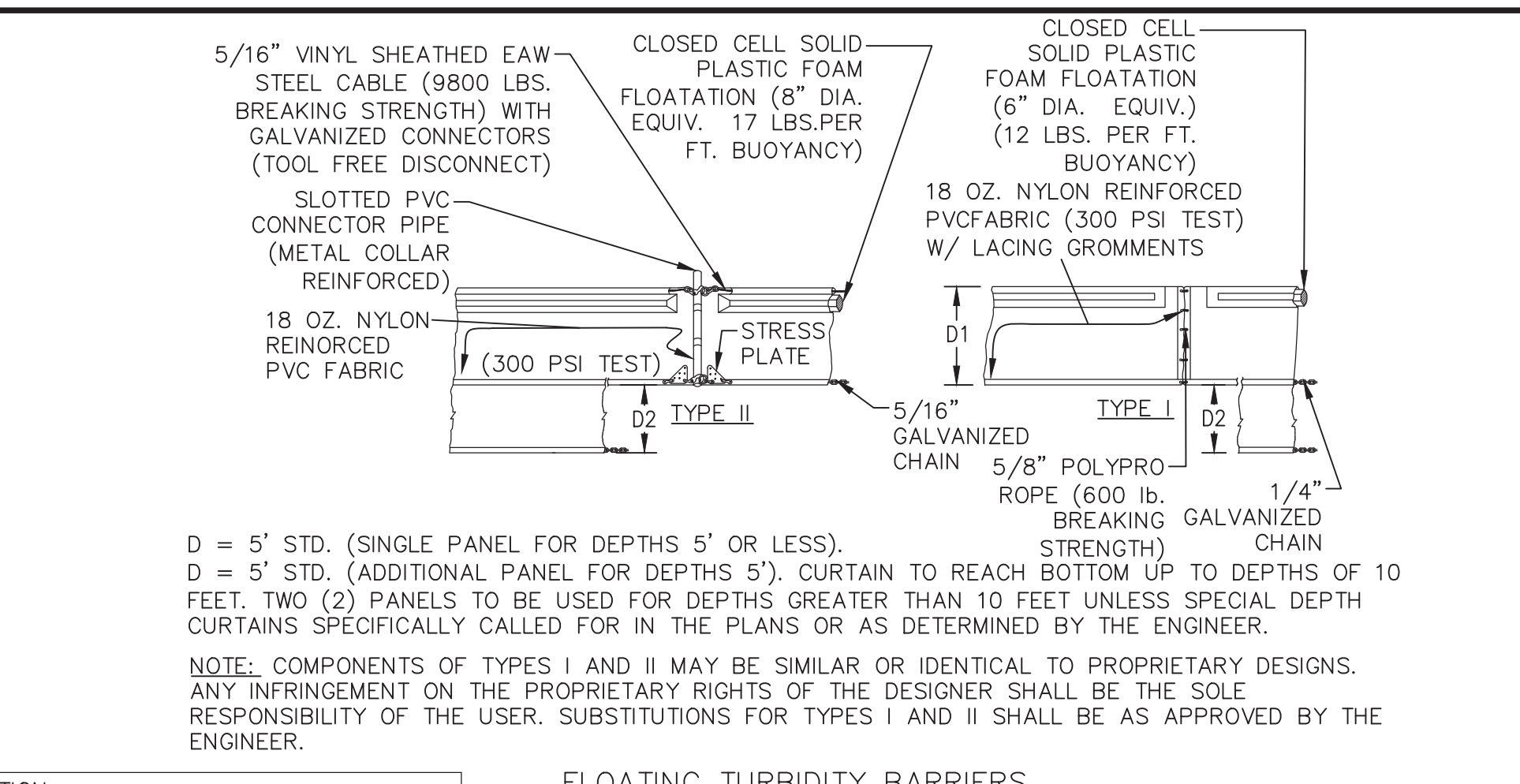
STAKED SILT BARRIER OR SILT FENCE PROTECTION AROUND INLETS
N.T.S.

FIGURE 7



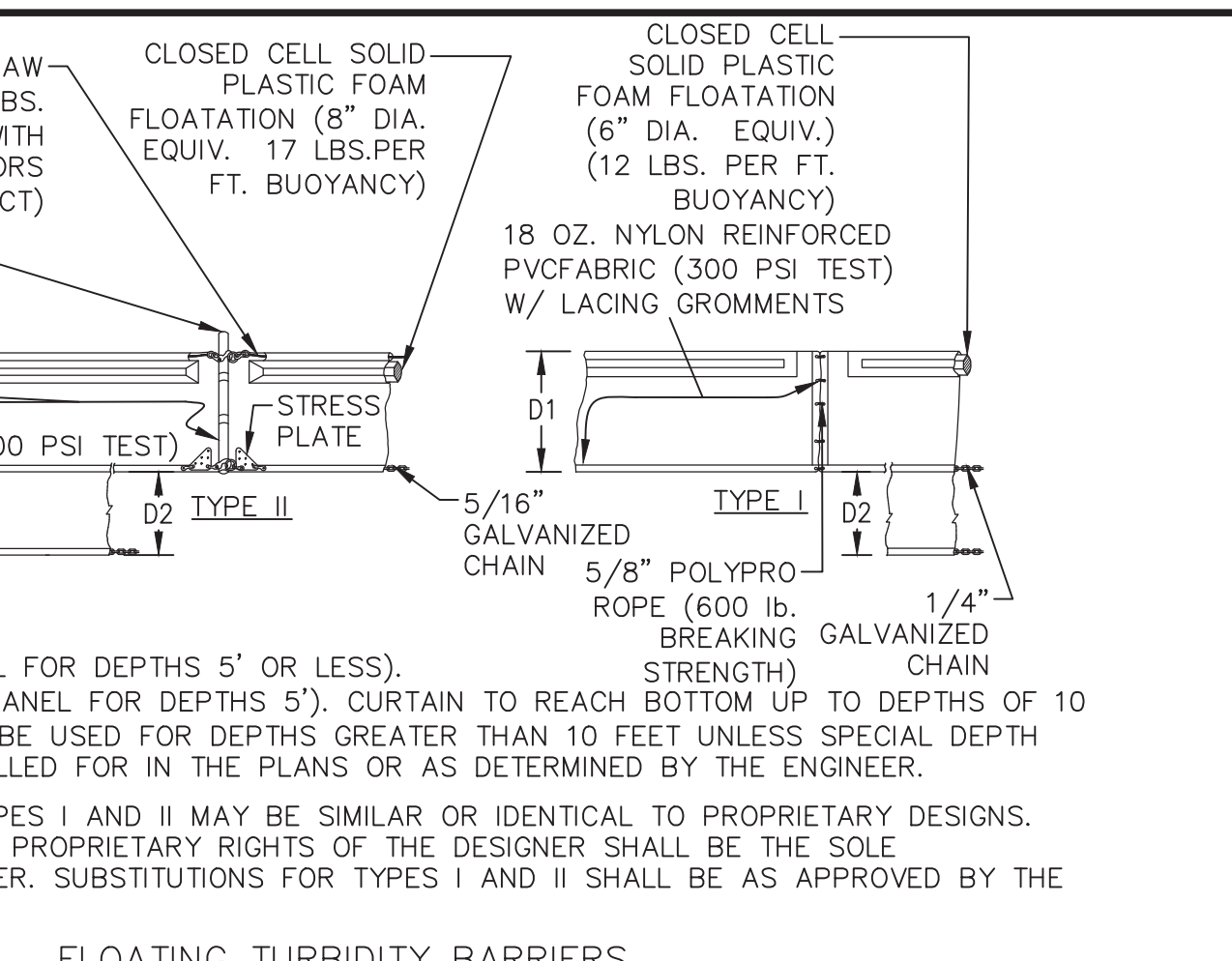
FLOATING TURBIDITY BARRIER AT CONNECTION OF STORM PIPE TO EXISTING LAKE
N.T.S.

FIGURE 8



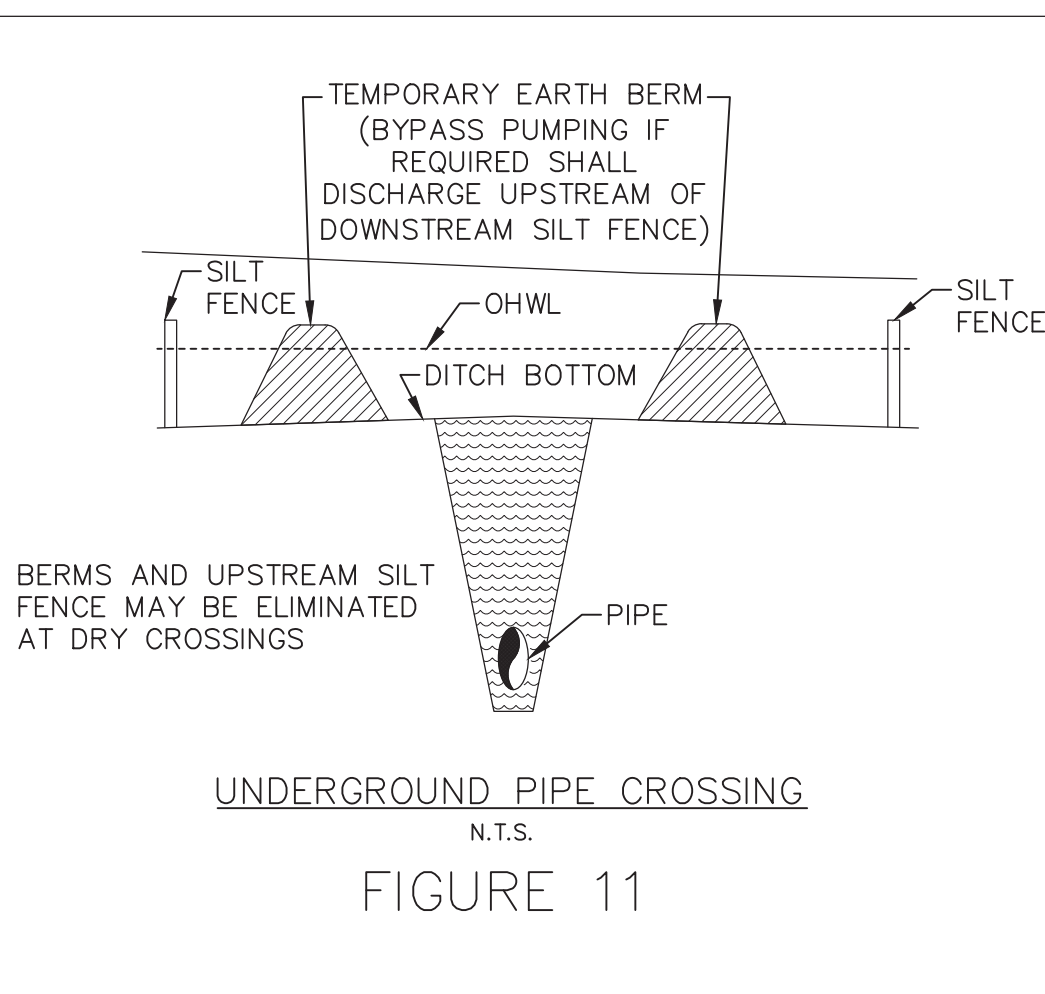
SILT BARRIER AT CONNECTION OF STORM PIPE TO EXISTING SWALE
N.T.S.

FIGURE 9



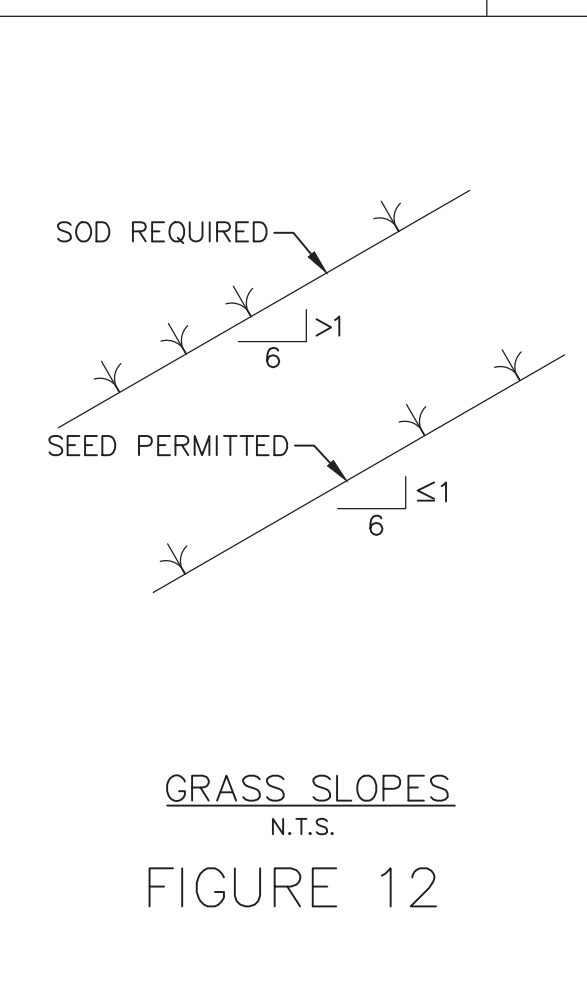
SILT BARRIER AT CONNECTION OF SWALE TO EXISTING SWALE
N.T.S.

FIGURE 10



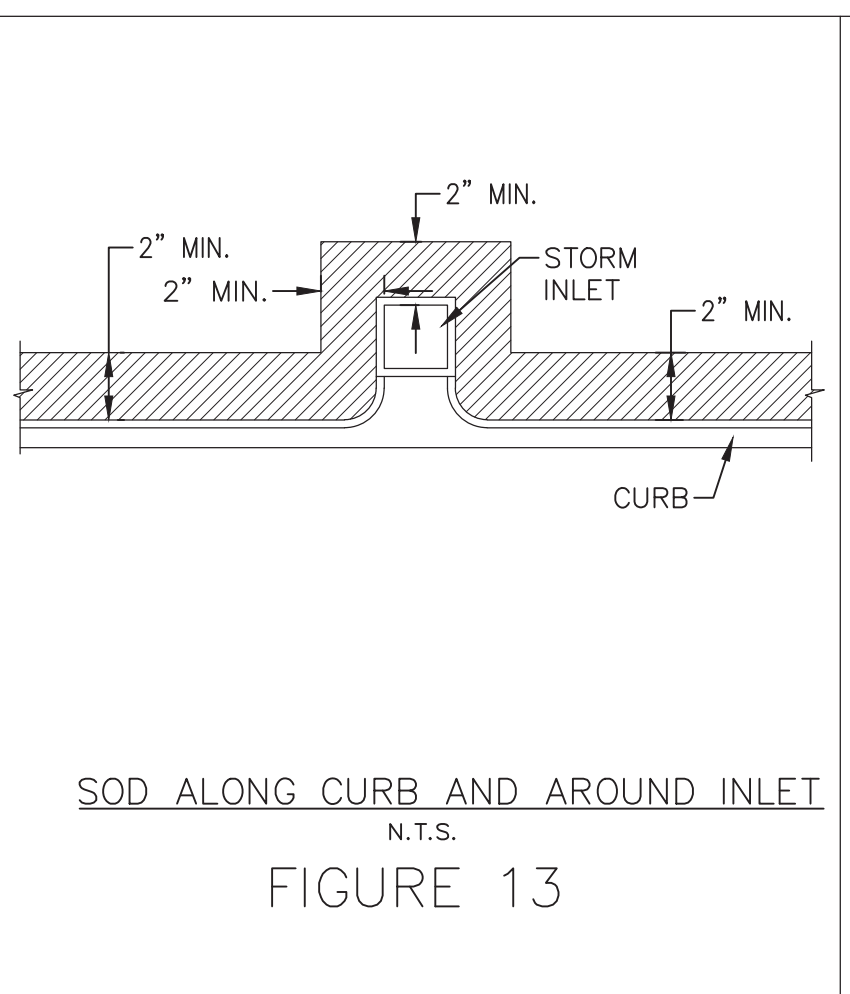
UNDERGROUND PIPE CROSSING
N.T.S.

FIGURE 11



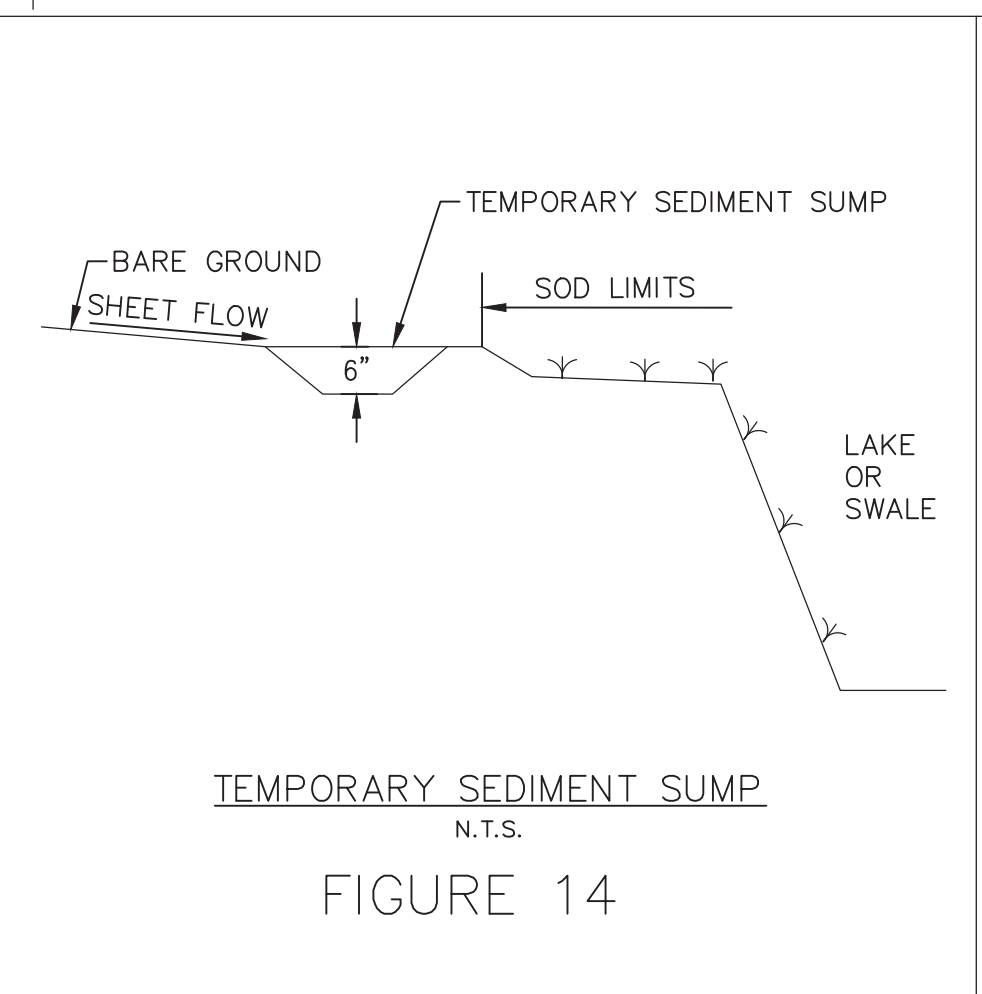
GRASS SLOPES
N.T.S.

FIGURE 12



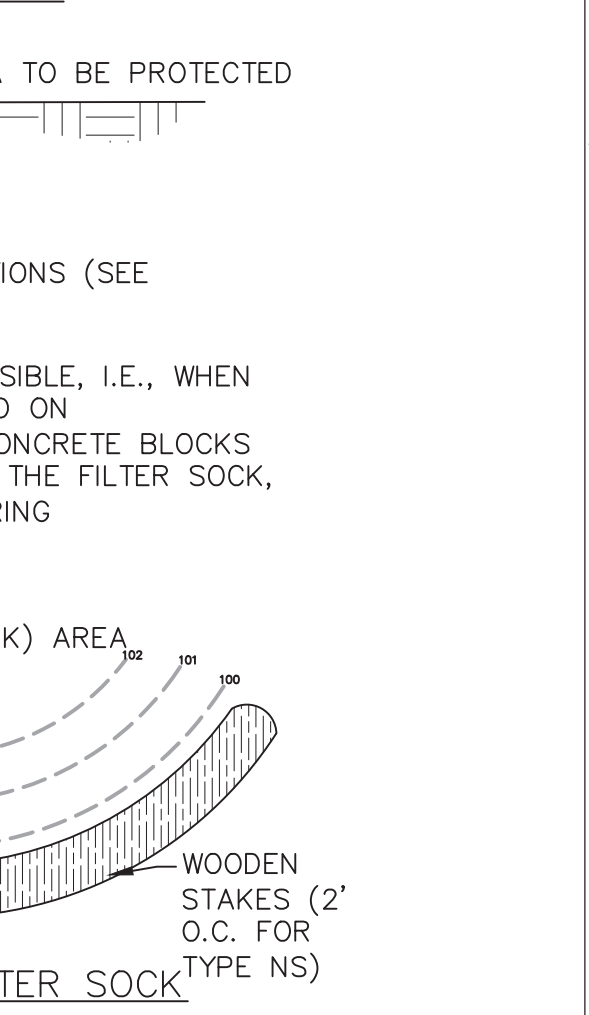
SOD ALONG CURB AND AROUND INLET
N.T.S.

FIGURE 13



TEMPORARY SEDIMENT SUMP
N.T.S.

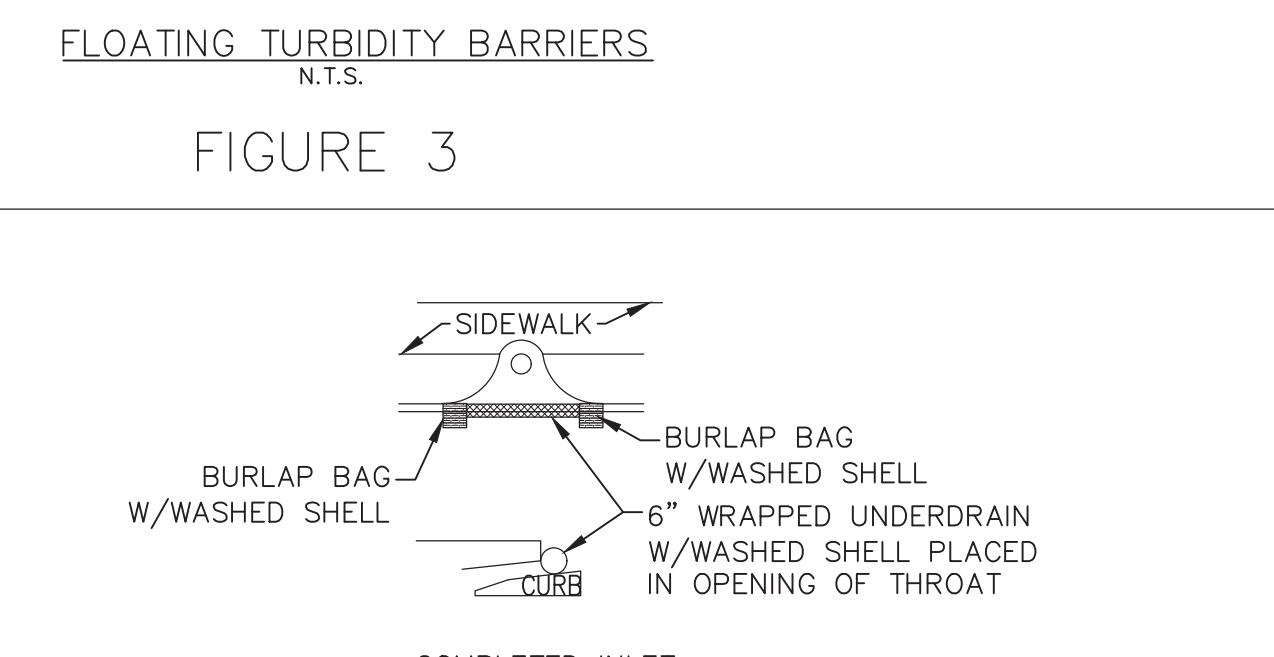
FIGURE 14



COMPOSITE FILTER SOCK
N.T.S.

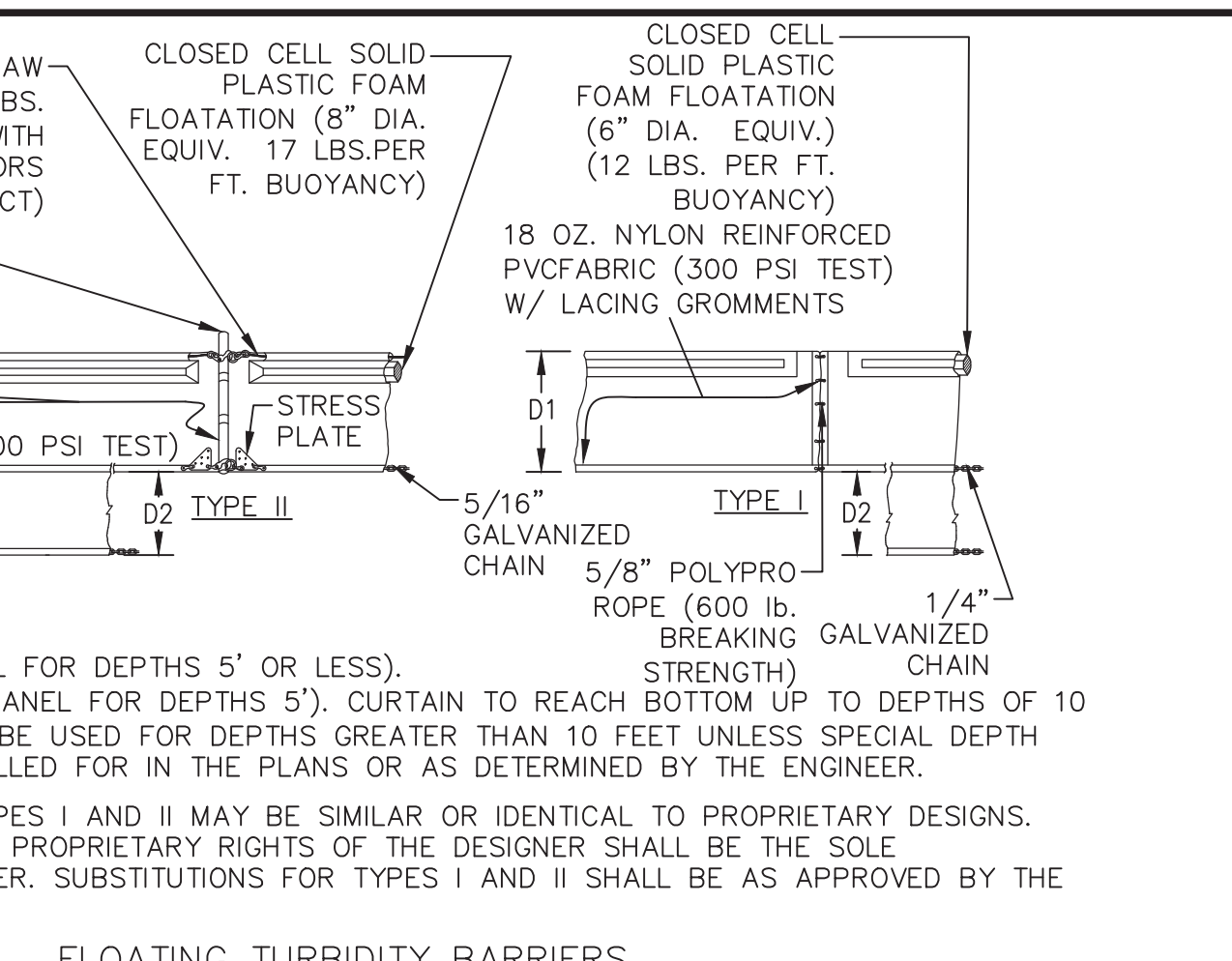
FIGURE 5

- NOTES:
1. FILTER SOCK SIZED TO SUIT CONDITIONS (SEE APPROVED LIST)
 2. 18" MINIMUM HEIGHT
 3. IN THE EVENT STAKING IS NOT POSSIBLE, I.E., WHEN COMPOSITE FILTER SOCKS ARE USED ON PAVEMENT/GRAVEL, HEAVY DUTY CONCRETE BLOCKS SHALL BE PLACED ON AND BEHIND THE FILTER SOCK, AT 4' O.C., TO HELP STABILIZE DURING RAINFALL/RUNOFF EVENTS.



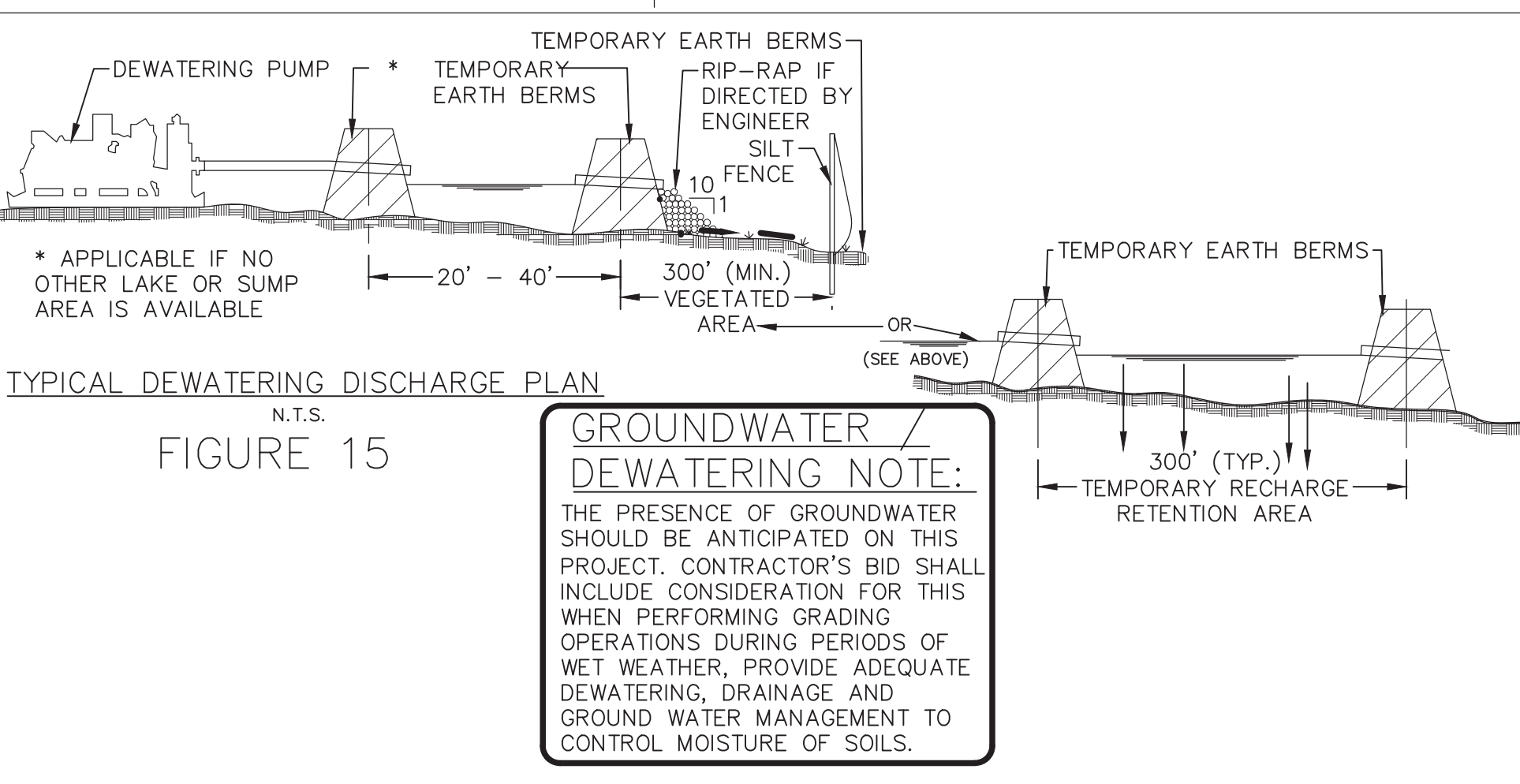
PROTECTION AROUND INLETS
N.T.S.

FIGURE 6



FLOATING TURBIDITY BARRIERS
N.T.S.

FIGURE 3



TYPICAL DEWATERING DISCHARGE PLAN
N.T.S.

FIGURE 15

GROUNDWATER / DEWATERING NOTE:
THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR THIS WHEN PERFORMING GRADING OPERATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.

Sarasota County

CONSULTANTS

ARCADIS

LEGAL ENTITY:
ARCADIS U.S., INC.

DAVID ANDREW WILSON
No 65319
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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HOME DEPOT MPS
AND FM

100% BID SUBMITTAL

NO.	DATE	ISSUED FOR	BY
1	DEC 2025	100% BID PLANS	DW

COPYRIGHT: ARCADIS U.S., INC. 2024

DATE: DECEMBER 2025

PROJECT NO.: 30036073

FILE NAME: BMP-01

DESIGNED BY: ARPITA MEHER

DRAWN BY: SHIVAKUMAR

CHECKED BY: DAVID WILSON

SHEET TITLE
CIVIL

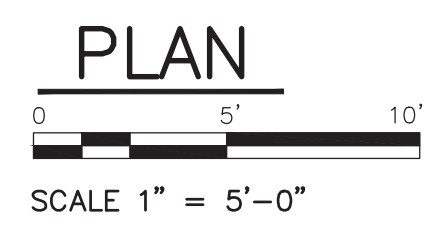
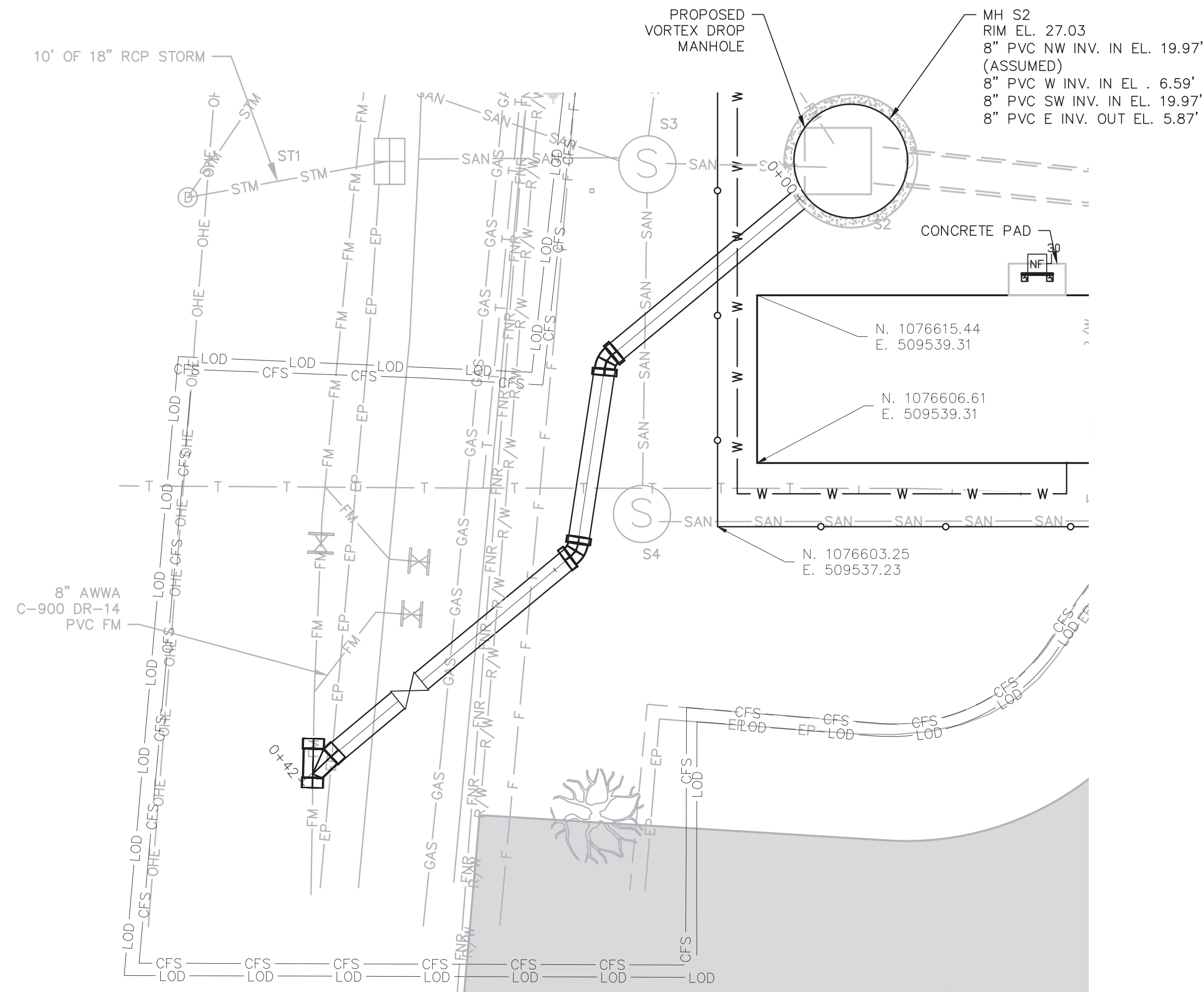
BEST MANAGEMENT PRACTICE DETAILS

SCALE: AS SHOWN

BMP-01

SHEET 25 OF 60

User: JOSHHC4656 Spec: AUS-NC5MOD File: C:\USERS\JOSHHC4656\DC\ACCDCS\ARCADIS\AUS-30036073-HOME DEPOT LS AND FM\PROJECT FILES\0_WIP\CIVIL\BMP-SHEETS\BMP-03.DWG Scale: 1:1 Saved Date: 12/22/2025 Time: 19:32 Plot Date: Jeshy Chathra: 12/22/2025 20:11 : Layout: BMP-03



LEGEND

— LOD —	LIMITS OF DISTURBANCE
— CFS —	COMPOSITE SOCK FILTER
— SF —	SILT FENCE

NOTES:

1. PROVIDE INLET PROTECTION FOR ALL STORMWATER INLETS AFFECTED NOT SHOW ON DRAWINGS

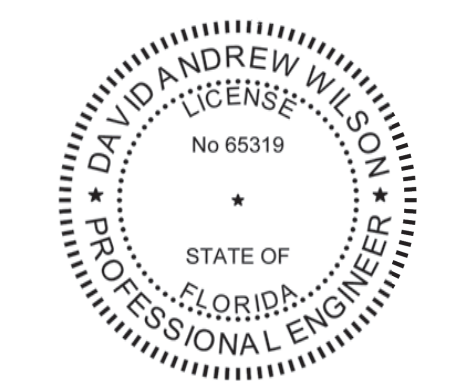


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FILE NAME: BMP-03
DESIGNED BY: ARPITA MEHER
DRAWN BY: SHIVAKUMAR
CHECKED BY: DAVID WILSON

SHEET TITLE

CIVIL

BEST MANAGEMENT PRACTICES STATION
0+00 TO 0+45

SCALE: AS SHOWN

BMP-03
SHEET 27 OF 60

User: 05HYC4656 Spec: AUS - NSM001 File: C:\USERS\05HYC4656\Documents\ARCADIS\AUS-30036073-HOME DEPOT_LS AND FM\PROJECT FILES\05MIP\CIVIL\BMP SHEETS\BMP-04.DWG Scale: 1:1 Saved Date: 12/22/2025 Time: 19:31 Plot Date: Joshy, Chaitra: 12/22/2025 20:10 : Layout: BMP-04



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FILE NAME:	BMP-04
DESIGNED BY:	ARPIA MEHER
DRAWN BY:	SHIVAKUMAR
CHECKED BY:	DAVID WILSON

SHEET TITLE

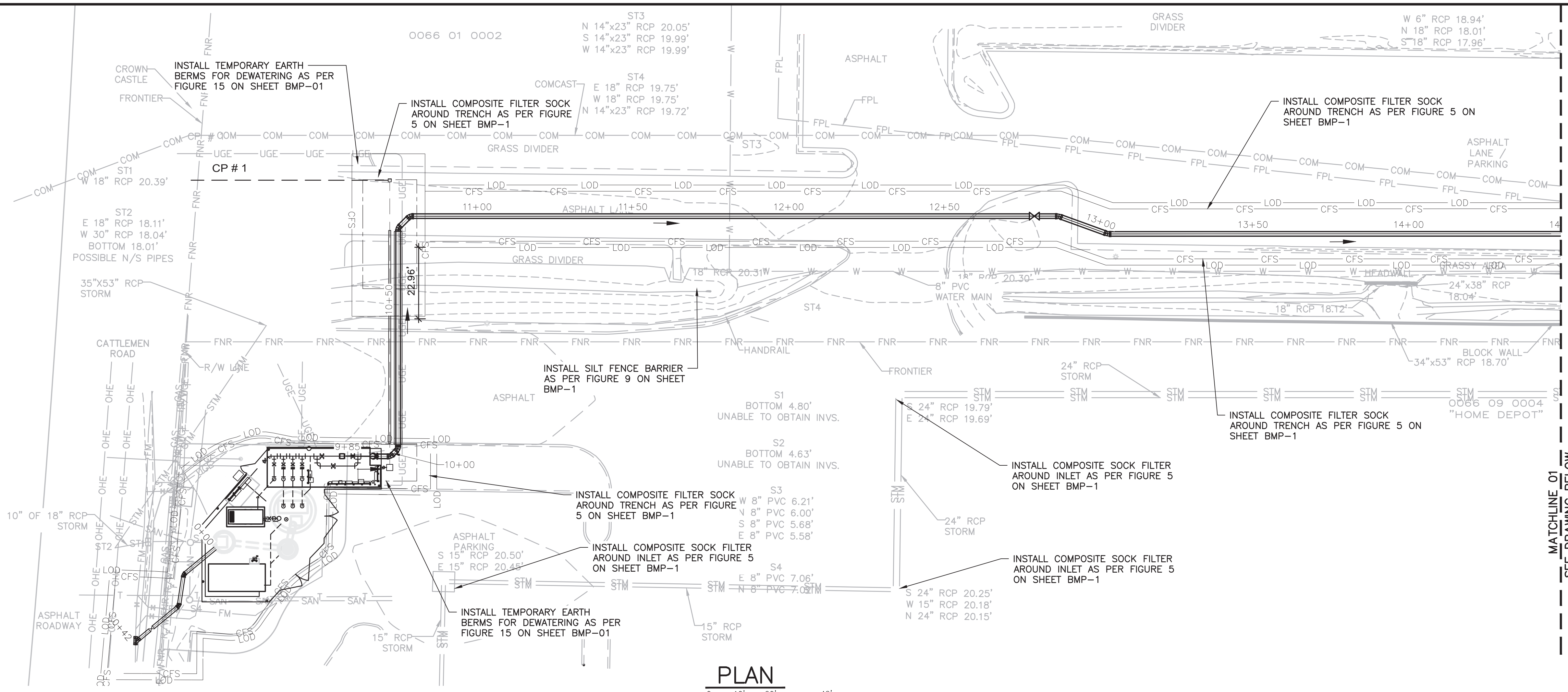
CIVIL

BEST MANAGEMENT PRACTICES STATION
10+00 TO 19+50

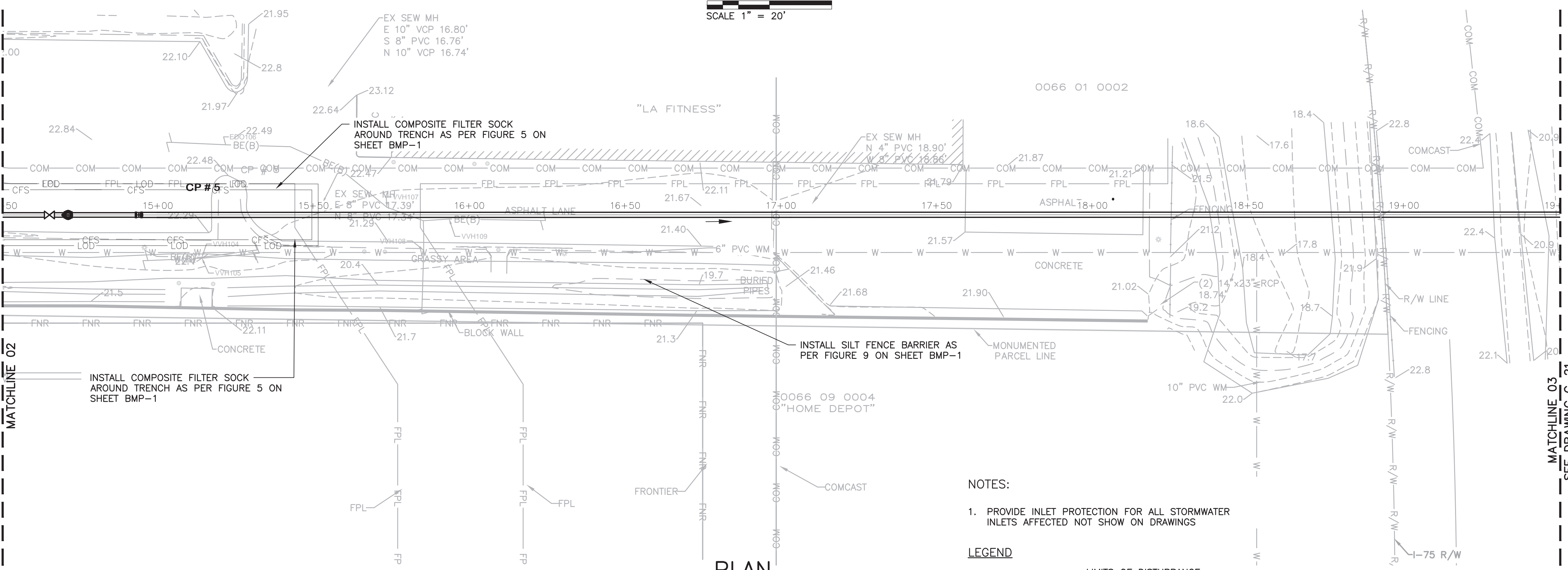
SCALE: AS SHOWN

BMP- 04

SHEET 28 OF 60



PLAN
SCALE 1" = 20'



PLAN
SCALE 1" = 20'

- NOTES:**
1. PROVIDE INLET PROTECTION FOR ALL STORMWATER INLETS AFFECTED NOT SHOW ON DRAWINGS

LEGEND

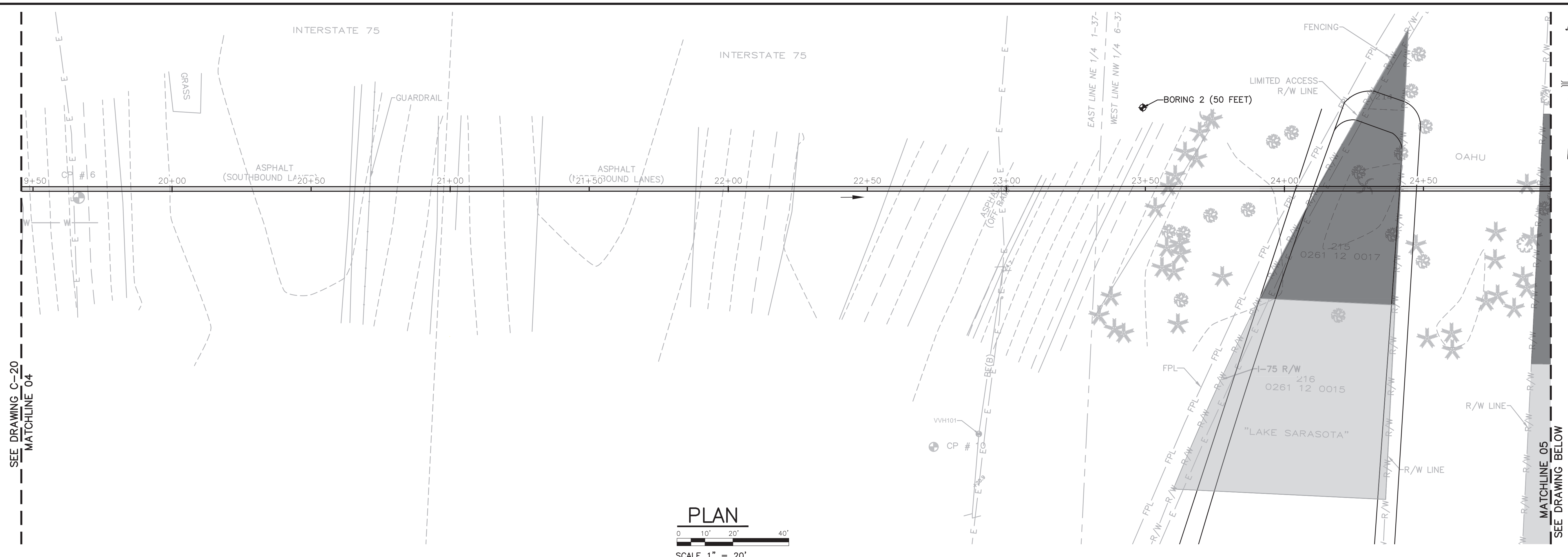
— LOD —	LIMITS OF DISTURBANCE
— CFS —	COMPOSITE SOCK FILTER
— SF —	SILT FENCE

MATCHLINE 01
SEE DRAWING BELOW

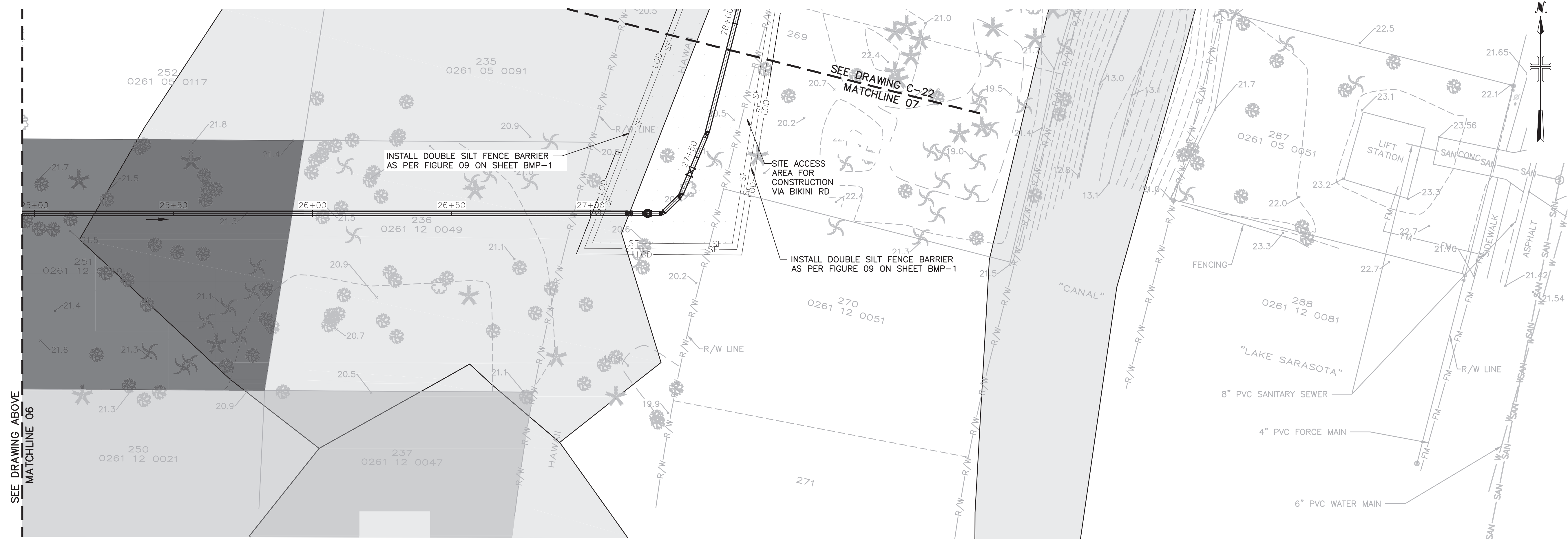
SEE DRAWING ABOVE
MATCHLINE 02

MATCHLINE 03
SEE DRAWING C-21

User: J05HYC4656 Spec: AUS-NCSMOD File: C:\USERS\J05HYC4656\DC\ACCDCS\ARCADIS\AUS-30036073-HOME DEPOT LS AND FM\PROJECT FILES\0_MIP\CIVIL\BMP SHEETS\BMP-05.DWG Scale: 1:1 SavedDate: 12/22/2025 Time: 12:26 Plot Date: Jobby, Chaitra: 12/22/2025



PLAN
SCALE 1" = 20'



PLAN
SCALE 1" = 20'

LEGEND

— LOD	— LIMITS OF DISTURBANCE
— CFS	— COMPOSITE SOCK FILTER
— SF	— SILT FENCE

- NOTES:**
1. PROVIDE INLET PROTECTION FOR ALL STORMWATER INLETS AFFECTED NOT SHOW ON DRAWINGS



CONSULTANTS



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DRAWN BY: SHIVAKUMAR
CHECKED BY: DAVID WILSON

SHEET TITLE

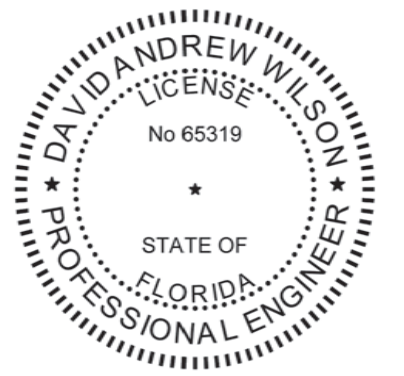
CIVIL

BEST MANAGEMENT PRACTICES STATION 19+50 TO 28+00

SCALE: AS SHOWN

SHEET 29 OF 60

User: J05HYC4656 Spec: AUS-NSMOD File: C:\USERS\J05HYC4656\DC\A0000000\ARCADIS\AUS-30036073-HOME DEPOT LS AND FM PROJECT FILES\0_MIP\CIVIL\BMP SHEETS\BMP-06.DWG Scale: 1:1 Saved Date: 12/22/2025 Time: 19:46 Plot Date: Jobby, Chaitra: 12/22/2025 20:10 : Layout: C-10



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FILE NAME: BMP-06
DESIGNED BY: ARPITA MEHER
DRAWN BY: SHIVAKUMAR
CHECKED BY: DAVID WILSON

SHEET TITLE

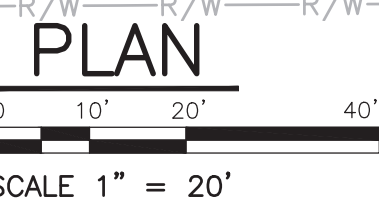
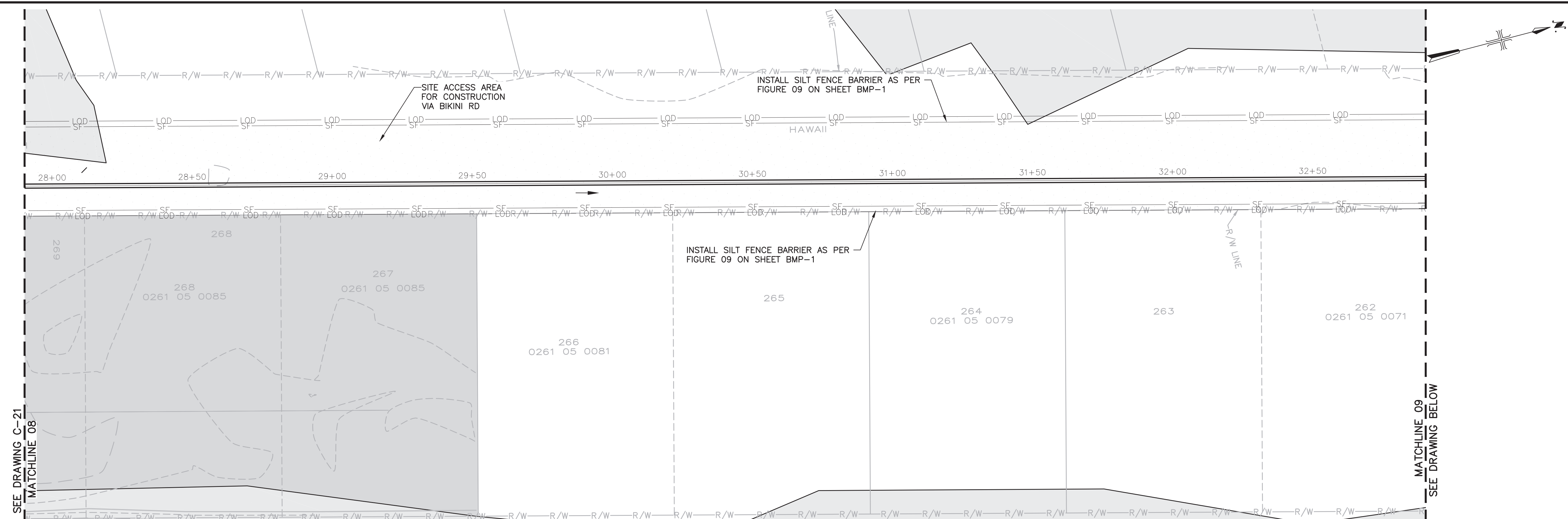
CIVIL

**BEST MANAGEMENT
PRACTICES STATION
28+00 TO 37+50**

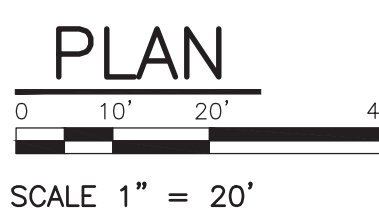
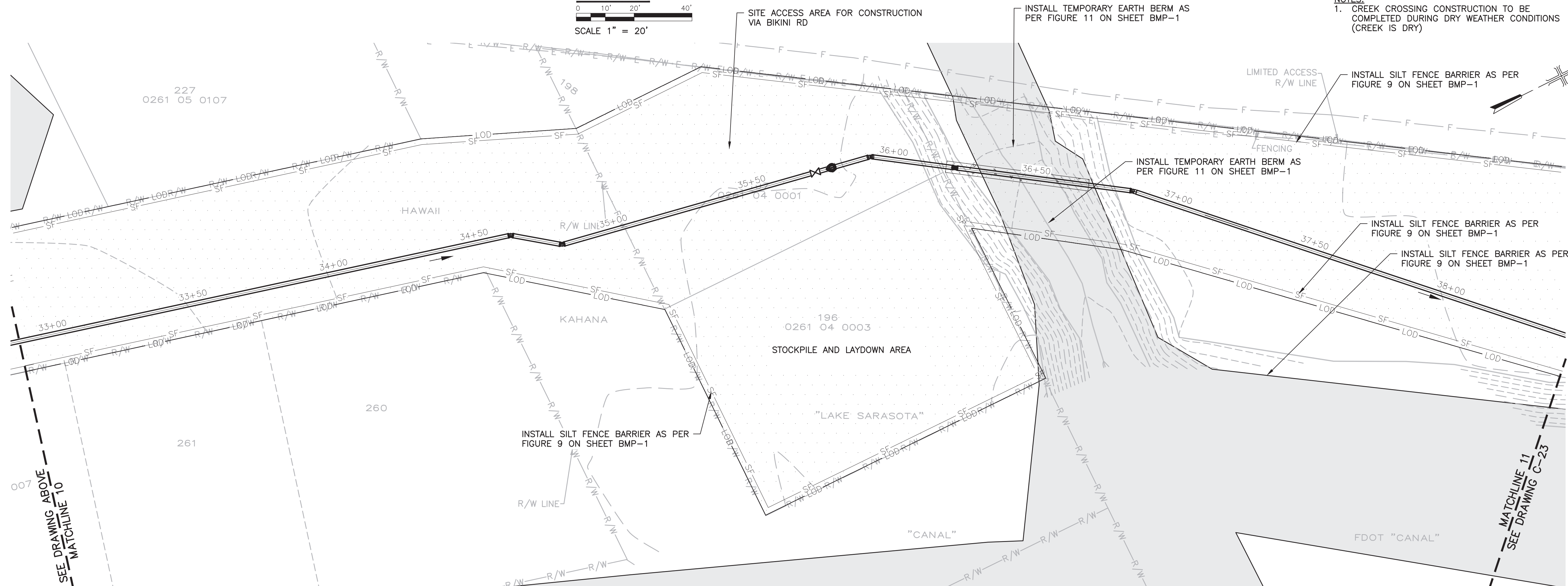
SCALE: AS SHOWN

BMP - 06

SHEET 30 OF 60



NOTES:
1. CREEK CROSSING CONSTRUCTION TO BE COMPLETED DURING DRY WEATHER CONDITIONS (CREEK IS DRY)

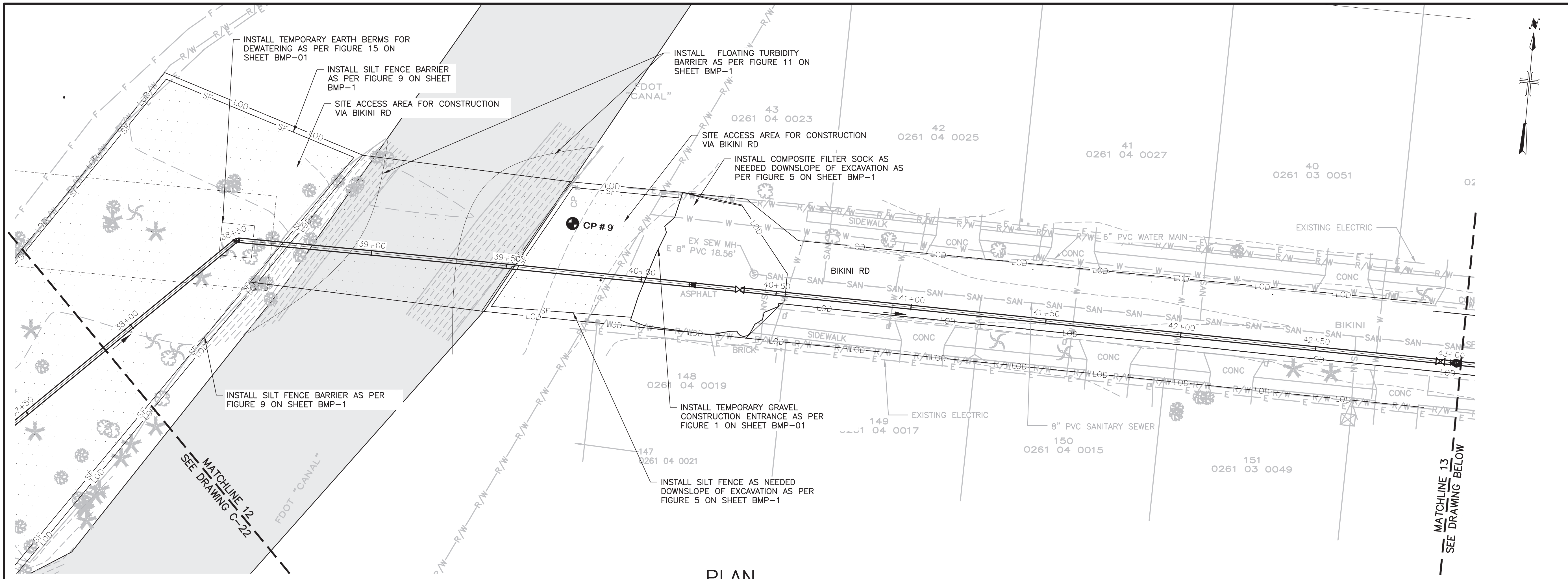


LEGEND

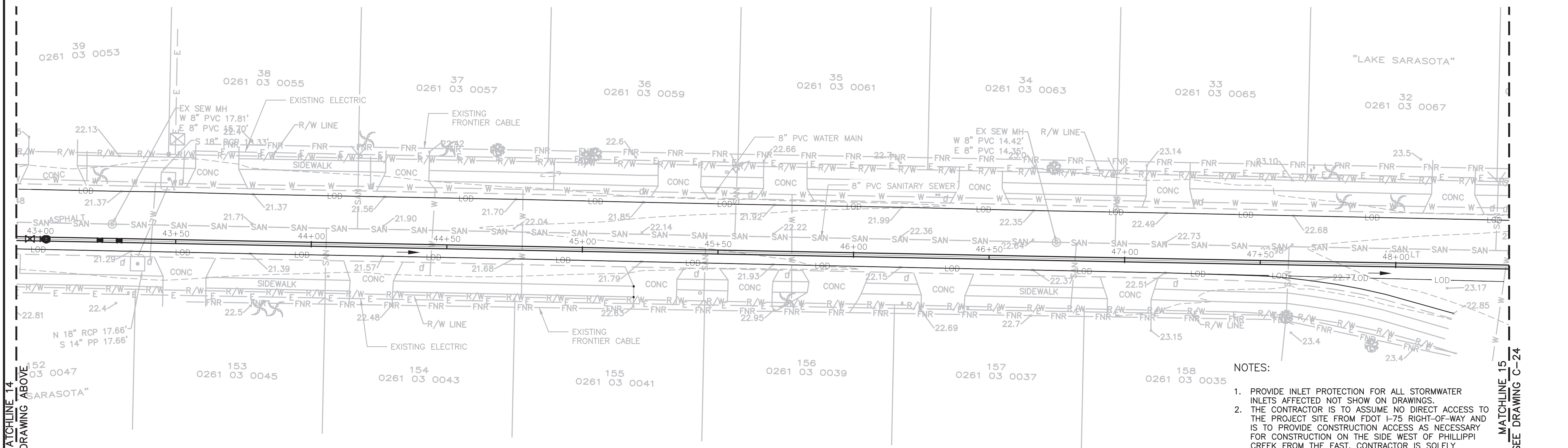
— LOD —	LIMITS OF DISTURBANCE
— CFS —	COMPOSITE SOCK FILTER
— SF —	SILT FENCE

NOTES:
1. PROVIDE INLET PROTECTION FOR ALL STORMWATER INLETS AFFECTED NOT SHOW ON DRAWINGS

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PLAN
 0 10' 20' 40'
 SCALE 1" = 20'



PLAN
 0 10' 20' 40'
 SCALE 1" = 20'

- LEGEND**
- LOD — LIMITS OF DISTURBANCE
 - CFS — COMPOSITE SOCK FILTER
 - SF — SILT FENCE

- NOTES:**
1. PROVIDE INLET PROTECTION FOR ALL STORMWATER INLETS AFFECTED NOT SHOW ON DRAWINGS.
 2. THE CONTRACTOR IS TO ASSUME NO DIRECT ACCESS TO THE PROJECT SITE FROM FDOT I-75 RIGHT-OF-WAY AND IS TO PROVIDE CONSTRUCTION ACCESS AS NECESSARY FOR CONSTRUCTION ON THE SIDE WEST OF PHILLIPPI CREEK FROM THE EAST. CONTRACTOR IS SOLELY RESPONSIBLE FOR PROVIDING ALL MATERIALS AND NECESSARY APPURTENANCES, LABOR, AND PERMITTING EFFORTS (INCLUDE FEES) ASSOCIATED WITH THE MOVEMENT OF HEAVY EQUIPMENT AND MATERIALS FROM ONE SITE OF PHILLIPPI CREEK TO THE OTHER.

Sarasota County

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HOME DEPOT MPS
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FILE NAME: BMP-07

DESIGNED BY: ARPITA MEHER

DRAWN BY: SHIVAKUMAR

CHECKED BY: DAVID WILSON

SHEET TITLE

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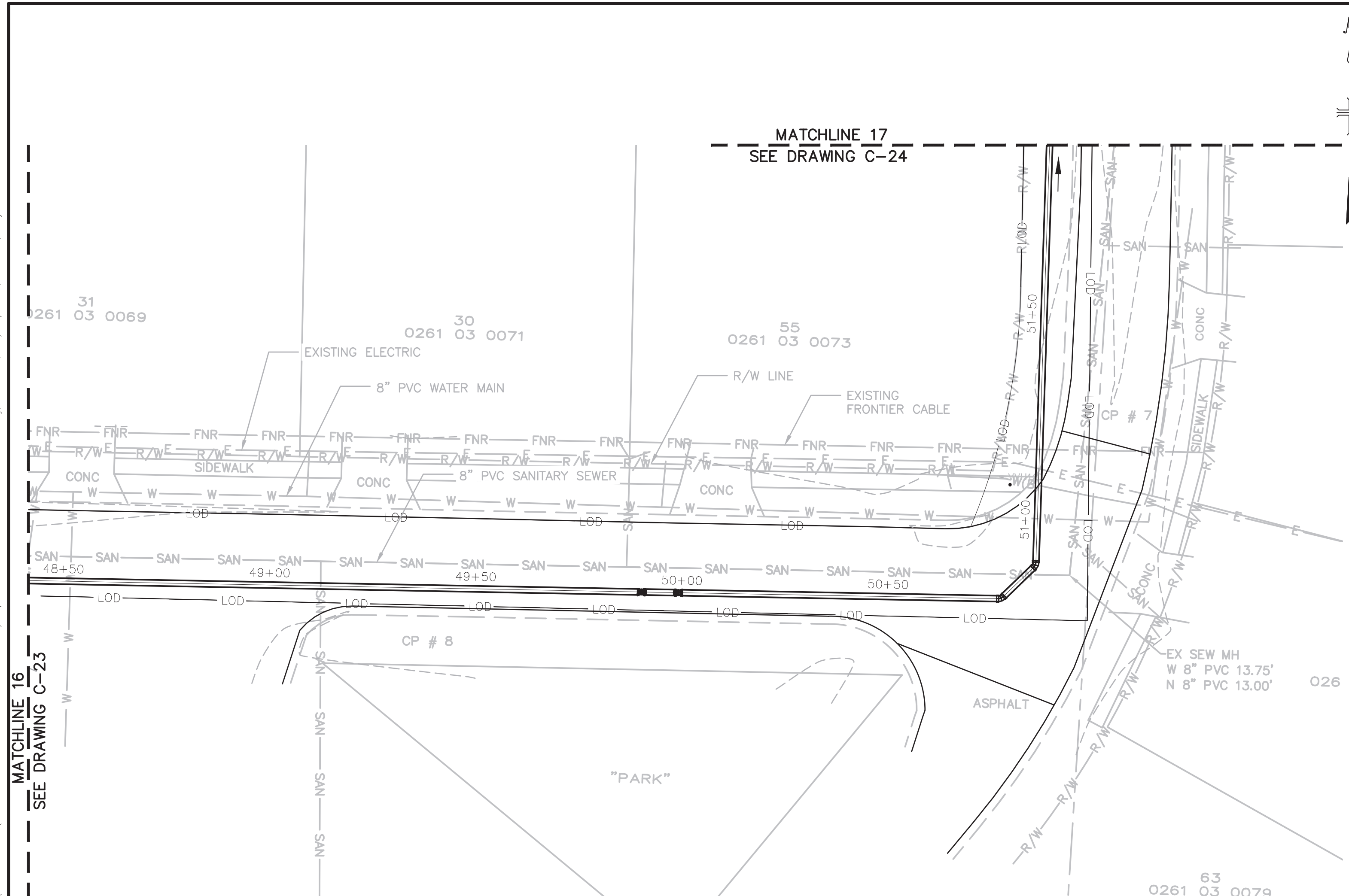
BEST MANAGEMENT PRACTICES STATION
37+50 TO 48+50

SCALE: AS SHOWN

BMP- 07

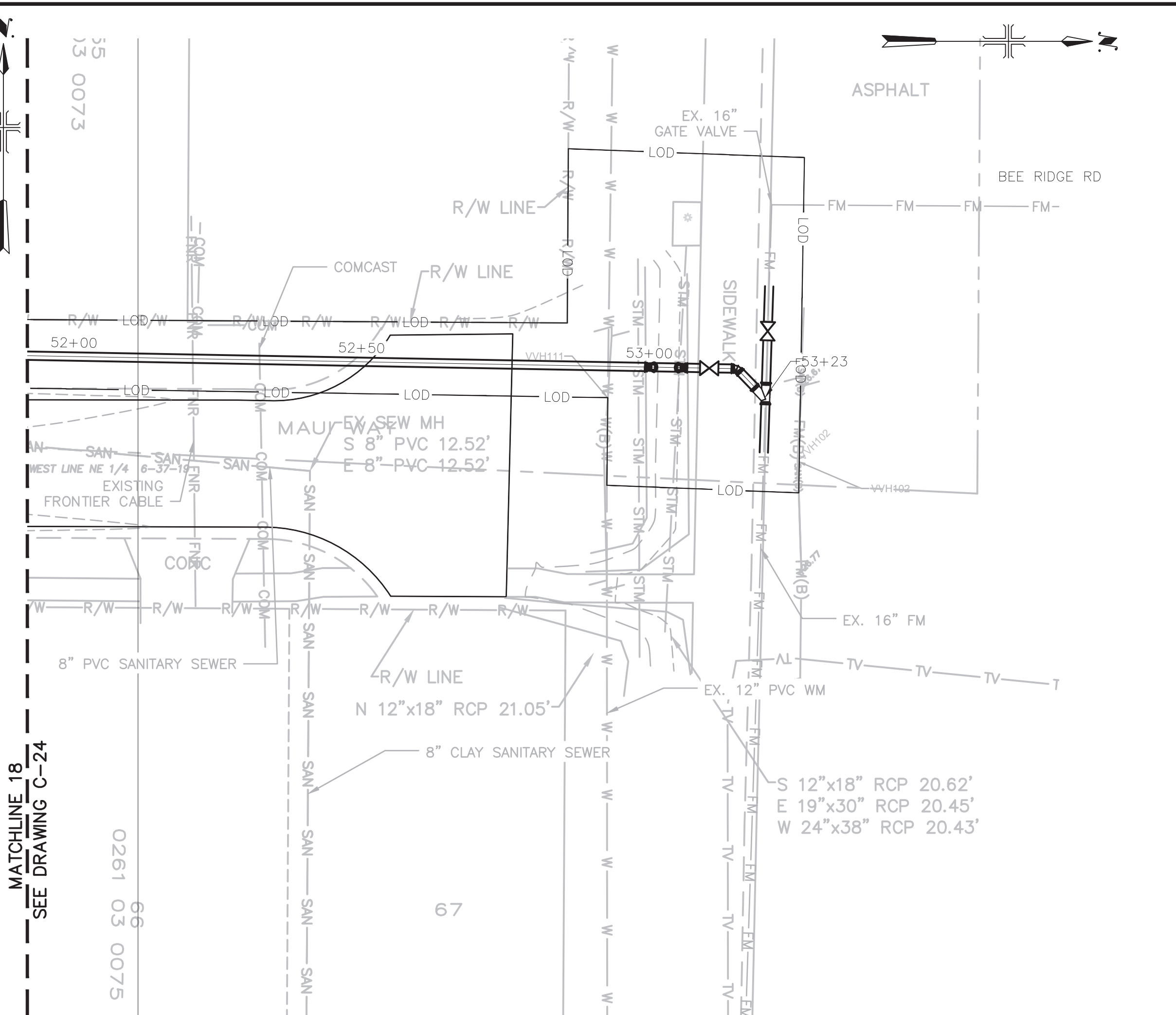
SHEET 31 OF 60

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PLAN
 0 10' 20' 40'
 SCALE 1" = 20'

LEGEND
 — LOD — LIMITS OF DISTURBANCE




PLAN
 0 10' 20' 40'
 SCALE 1" = 20'

NOTES:
 1. PROVIDE INLET PROTECTION FOR ALL STORMWATER INLETS AFFECTED NOT SHOW ON DRAWINGS

Sarasota County

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HOME DEPOT MPS AND FM

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 DRAWN BY: SHIVAKUMAR
 CHECKED BY: DAVID WILSON

SHEET TITLE
 CIVIL

**BEST MANAGEMENT PRACTICES STATION
 48+50 TO 53+23**

SCALE: AS SHOWN

BMP-08
 SHEET 32 OF 60

GENERAL NOTES

1. INSTALL 6 INCHES OF COMPACTED 1 INCH, WASHED, CRUSHED SHELL OVER ONE LAYER OF WEED BARRIER OVER ALL EXPOSED GROUND SURFACES. ONE LAYER OF WEED BARRIER IS TO BE LAID AND EXTEND 4 FEET OUTSIDE OF THE FENCE LINE. THE WEED BARRIER SHALL BE MIRASCAPE MANUFACTURED BY MIRAFI OR APPROVED EQUAL. ALL FINISHED GRADE SURFACES SHALL SLOPE AWAY FROM THE CONCRETE SLABS AT A MINIMUM SLOPE OF 2%, EXTENDING 4 FEET OUTSIDE OF THE FENCE LINE. PRIOR TO INSTALLING THE WEED BARRIER, ALL DISTURBED GROUND SHALL BE COMPACTED TO 95% MAX DENSITY, AASHTO T-180, WITH A 4-POINT PROCTOR COMPACTION TEST TO BE PERFORMED WITHIN THE 4 FOOT AREA OUTSIDE OF THE FENCE LINE.
2. ALL LIFT STATION DRIVEWAYS SHALL BE 6 INCH THICK CLASS I, MINIMUM 3000 PSI, FIBERMESH REINFORCED CONCRETE WITH 3 LBS/CY OF 100% VIRGIN POLYPROPYLENE COLLATED, FIBRILLATED FIBERS FROM FIBERMESH CO. OR EQUAL, EXTENDING FROM THE BACK OF THE CURB TO LESS THAN 1 FOOT (-1') INSIDE THE FENCE GATE OPENING. THE 14 FOOT WIDE DRIVEWAY SHALL ALIGN WITH THE CENTER OF THE FENCE GATE AND THE WET WELL. THE TOP 12 INCHES OF THE DRIVEWAY SUBGRADE SHALL BE SUBJECT TO A 4-POINT PROCTOR COMPACTION TEST COMPACTED TO 98% DENSITY, AASHTO T-180. MAXIMUM SLOPE SHALL NOT EXCEED 7% FOR ALL LIFT STATION DRIVEWAYS.
3. HDPE DR-11 SHALL BE USED FOR ALL PIPING IN THE WETWELL THROUGH THE WET WELL WALL PENETRATION TO THE FIRST ABOVE GRADE 90 DEG BEND . ALL HDPE FITTINGS SHALL BE MOLDED, WHERE CONNECTIONS TO FLANGED PIPING, VALVES, AND FITTINGS SHALL BE MADE WITH HDPE FLANGE ADAPTERS. ALL DIP FITTINGS SHALL BE CLASS 53 FLANGED JOINT. ALL BURIED DIP AND FITTINGS SHALL BE CLASS 150 RESTRAINED MECHANICAL JOINT WITH A 1 MIL MINIMUM APPLICATION OF MANUFACTURER'S STANDARD ASPHALTIC BIT MASTIC COATING . ALL DIP AND FITTINGS USED ON THE LIFT STATION SITE SHALL BE LINED ON THE INTERIOR WITH A MINIMUM OF 40 MILS OF PROTECTO 401 CERAMIC EPOXY. ALL OTHER EXPOSED DIP FITTINGS SHALL BE COATED ON THE EXTERIOR WITH A MINIMUM OF 11 MILS OF TNEMEC SERIES 66 POLYAMIDE EPOXY OR EQUAL.
4. ALL LIFT STATION RELATED HARDWARE SHALL BE 316 S.S., SHALL NOT BE PAINTED, AND SHALL ADHERE TO ASTM A967. 316 S.S. WASHERS & NUTS AND BOLTS SHALL BE USED WITH ALL FLANGED JOINTS.
5. SURVEY MARKERS, STEEL BAR AND CAP, SHALL MARK THE EXACT EASEMENT LINES OF THE LIFT STATION SITE.
6. PUMP STATION SHALL BE PROVIDED WITH A METERED WATER SERVICE CONSISTING OF A ONE- INCH (1") SERVICE LINE, FIVE-EIGHTHS INCH (5/8") BY THREE-FOURTHS INCH (3/4") METER AND METER BOX, AND A THREE-FORTH INCH (3/4") HORIZONTALLY MOUNTED REDUCED PRESSURE TYPE BACKFLOW PREVENTER LOCATED AT THE METER. A BRASS HOSE BIB AND COPPER RISER MOUNTED ON A FOUR-INCH (4") BY FOUR INCH (4") CONCRETE POST SHALL BE PROVIDED AND LOCATED PER COUNTY UTILITY OPERATIONS.
7. PRIOR TO ACCEPTANCE OF THE LIFT STATION, THE SITE SHALL BE COMPLETELY CLEARED OF ALL CONSTRUCTION DEBRIS, THE WET WELL SHALL BE WASHED DOWN, THE CONTROL PANEL SHALL BE CLEANED OF ALL METAL SHAVINGS, ALL PIPING AND FITTINGS SHALL BE FINISH COATED AS REQUIRED, AND THE LIFT/PUMP STATION SHALL BE TESTED AND FOUND TO BE FULLY OPERATIONAL .
8. ALL ABOVE GROUND PIPING SHALL BE COLOR COATED: BLUE FOR POTABLE WATER (TNEMEC SAFETY BLUE, SC06), GREEN FOR WASTEWATER (TNEMEC 09SF SPEARMINT GREEN/SAFETY), AND PURPLE FOR REUSE (BEHR PANTONE 522C). HDPE PIPING SHALL NOT BE COATED.
9. THE LOCATION OF ALL BURIED PIPING AND ELECTRICAL CONDUITS ARE TO BE INCLUDED ON THE RECORD DRAWINGS.
10. BYPASS VALVE TO FACE AWAY FROM L PANEL AND RTU PANEL.



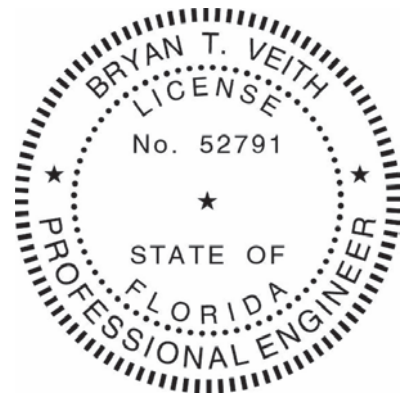
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HOME DEPOT MPS
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2025

DATE: DECEMBER 2025
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 FILE NAME: M-01
 DESIGNED BY: STEVE TOPOVSKI
 DRAWN BY: ALEX SPEKTOR
 CHECKED BY: BRYAN VEITH

SHEET TITLE

MECHANICAL

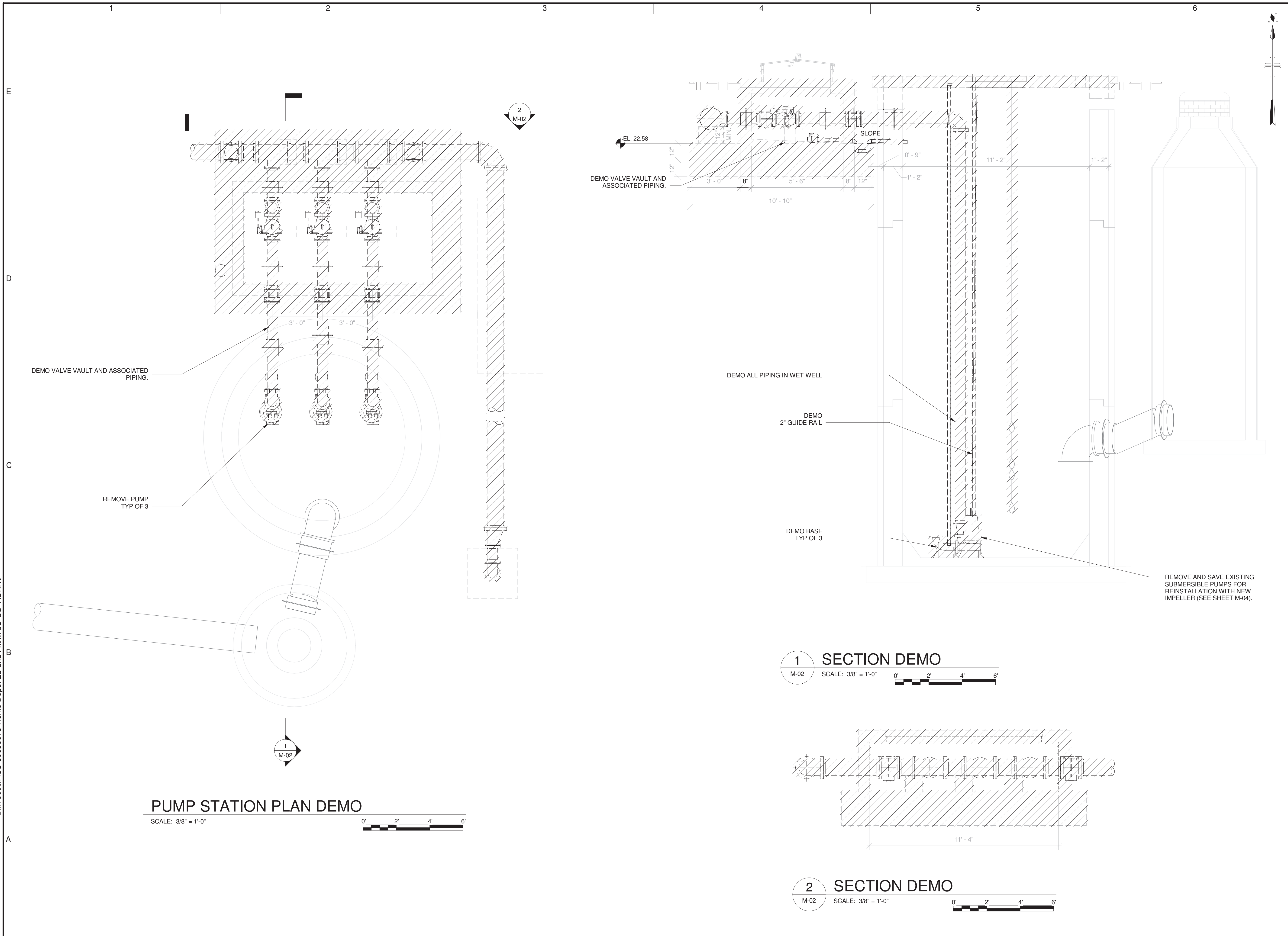
GENERAL NOTES

SCALE: NOT TO SCALE

M-01

SHEET 33 OF 60

12/22/2025 5:44:16 PM BIM 360://A US-30036073-Home Depot LS and FM/M-3D-SS-IR21.rvt



PUMP STATION PLAN DEMO
SCALE: 3/8" = 1'-0"

1 SECTION DEMO
M-02 SCALE: 3/8" = 1'-0"

2 SECTION DEMO
M-02 SCALE: 3/8" = 1'-0"



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FILE NAME: M-02
DESIGNED BY: STEVE TOPOVSKI
DRAWN BY: SRAVANA KUMAR
CHECKED BY: BRYAN VEITH

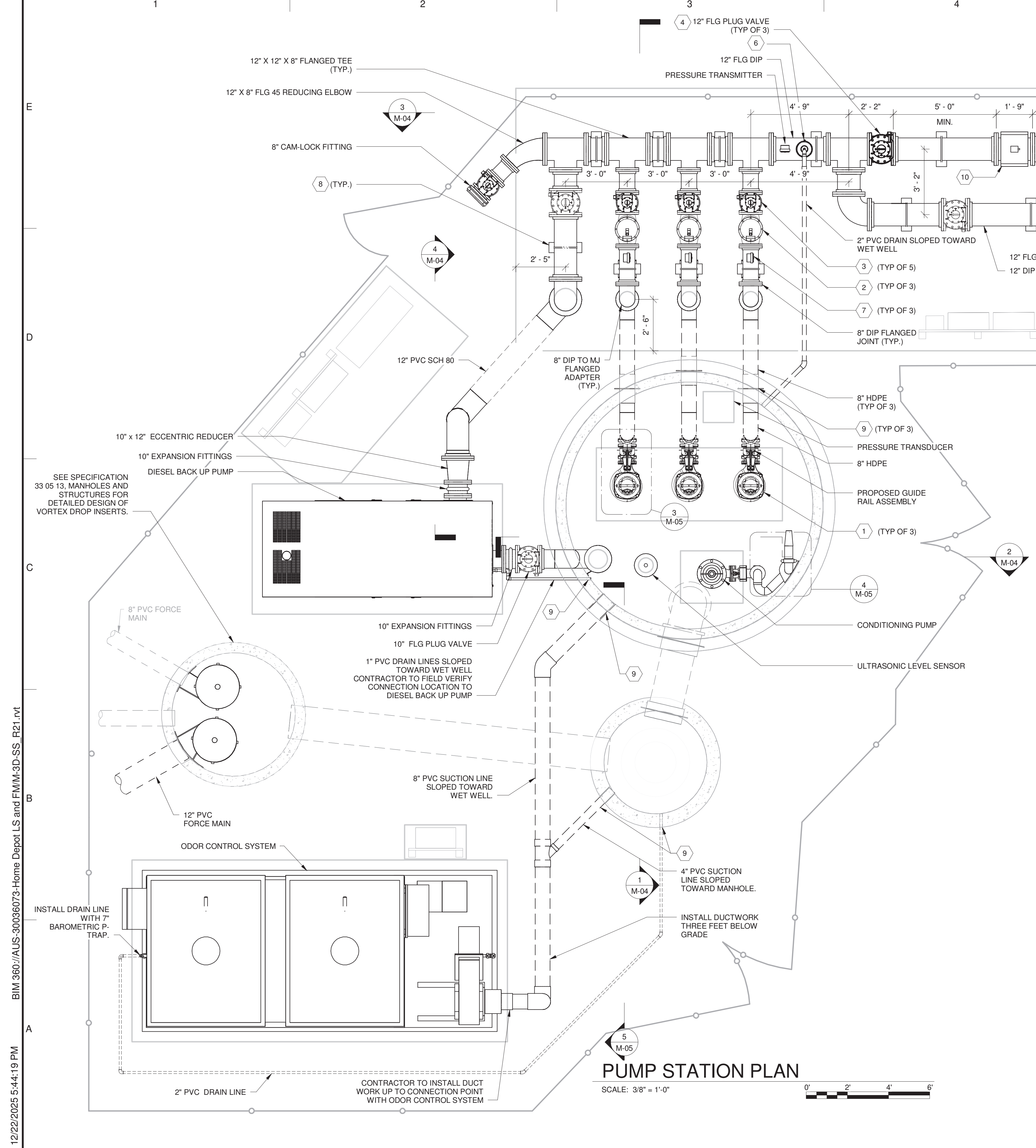
SHEET TITLE

MECHANICAL

DEMOLITION PLAN

SCALE: AS SHOWN

M-02
SHEET 34 OF 60



PUMP STATION PLAN
SCALE: 3/8" = 1'-0"

KEY NOTES

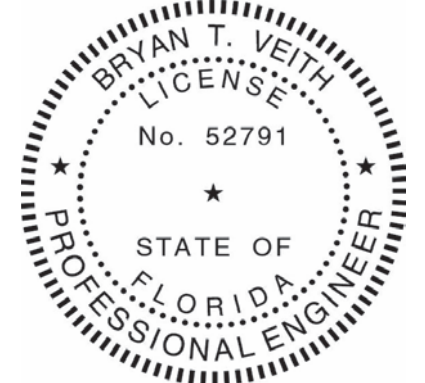
- 1 EXISTING FLYGT SUBMERSIBLE PUMP NP 3171.185 HT, INSTALL NEW HT 454 (270 mm) IMPELLER; SUBMERSIBLE NON-CLOG PUMP. INCLUDES 316 SCH 40 STAINLESS STEEL SINGLE LENGTH GUIDE RAILS. PUMP SHALL BE EQUIPPED WITH SEAL FAILURE SENSORS, HEAT SENSORS, AND HARDENED IRON IMPELLER EMPLOYING A HIGH-STRENGTH HARDENED IRON ALLOY COMPOSED OF 25% CHROMIUM AND 3% CARBON. LOCATE PUMP IN PROPER RELATION TO COVER OPENING TO ENSURE ACCURATE ALIGNMENT OF GUIDE RAILS. ANCHOR PUMP DISCHARGE CONNECTION TO WELL FLOOR WITH APPROPRIATE EXPANSION SHIELDS.
- 2 8 INCH RUBBER FLAPPER CHECK VALVES TO BE VSI SERIES CVII AWWA C508 RUBBER FLAPPER INTERNAL CHECK VALVE, OR APPROVED EQUAL.
- 3 10 INCH PLUG VALVE AND 8 INCH PLUG VALVE: ECCENTRIC OPERATING, NON-LUBRICATED, ROUND PORT, BUNA N RESILIENT FACE SEATING SURFACE, CAST IRON BODY, WORM GEAR OPERATORS. VALVES SHALL BE EPOXY COATED INSIDE AND OUT WITH AMERCOAT 400, OR EQUAL. THE EPOXY COATING SHALL BE A MINIMUM OF 8 MILS INSIDE AND 4 MILS OUTSIDE. PLUG VALVES SHALL BE MILIKEN, KENNEDY OR APPROVED EQUAL.
- 4 12 INCH PLUG VALVE: ECCENTRIC OPERATING, NON-LUBRICATED, ROUND PORT, BUNA-N RESILIENT FACE SEATING SURFACE, CAST IRON BODY, WORM GEAR OPERATORS. VALVES SHALL BE EPOXY COATED INSIDE AND OUT WITH AMERCOAT 400, OR EQUAL. THE EPOXY COATING SHALL BE A MINIMUM OF 8 MILS INSIDE AND 4 MILS OUTSIDE. PLUG VALVES SHALL BE MILIKEN, KENNEDY OR APPROVED EQUAL.
- 5 LEVEL CONTROLS: EACH SHALL BE PROVIDED WITH 30 FEET OF ELECTRIC CABLE WITH MINIMUM OF 10 FEET OF SLACK WITHIN THE WET WELL AND WEIGHTS CONNECTED TO STAINLESS STEEL FLOAT HANGER. NO SPLICING ALLOWED.
- 6 ARV, ARI D-025, WITH BLOW-OFF PIPED BACK TO WET WELL BELOW GRADE. ALL ARV'S TO HAVE 2 INCH INLETS, 1 INCH OUTLETS, AND 0.25 INCH ORIFICES. ALL ARV ASSEMBLIES TO HAVE THE FOLLOWING STAINLESS STEEL ITEMS: BALL VALVES, ROMAC 305 OR 306 FULL WRAP AROUND SADDLE (OR APPROVED EQUAL), BOLTS, AND FITTINGS. PIPE PENETRATIONS ARE TO BE FILED AND SANDED AS REQUIRED FOR SMOOTH FINISH AND EPOXY COATED.
- 7 A 316 S.S. OIL FILLED PRESSURE GAUGE WITH DIAPHRAGM, STAINLESS STEEL BALL VALVE, MOUNTED BY A FULL WRAP STAINLESS STEEL SADDLE ALONG THE DISCHARGE PIPE BELOW THE ARV. PRESSURE GAUGE DISPLAY RANGE SHALL PROVIDE AND BE APPROVED BY UTILITIES WITH ADEQUATE PRESSURE RANGE READINGS SUITABLE FOR ANTICIPATED PUMP STATION OPERATING PRESSURES. A MAXIMUM OPERATING RANGE OF 0-100 PSI SHALL BE PROVIDED.
- 8 PIPE SUPPORTS SHALL BE 2 INCH DIAMETER ADJUSTABLE 316 S.S. STANCHION SADDLE SUPPORT AND "U" WITH 3 INCH BY 1/8 INCH NEOPRENE PADDING BETWEEN EACH SADDLE AND PIPE.
- 9 LINK-SEAL HYDROSTATIC PIPE WALL CLOSURE OR APPROVED EQUAL.
- 10 12 INCH ELECTROMAGNETIC METER. SIEMENS SITRANS FM MAG 5100/6000.

ODOR CONTROL NOTES:

1. DRAIN PIPING FROM ODOR CONTROL SYSTEM TO BE PIPED BACK TOWARDS 5' DIAMETER MANHOLE WITH SLOPE TOWARDS THE MANHOLE
2. CONTRACTOR IS RESPONSIBLE FOR MAKING CONNECTIONS TO THE ODOR CONTROL SYSTEM. UNIT WILL BE PLACED BY ODOR CONTROL MANUFACTURER ON CONCRETE PAD PROVIDED BY CONTRACTOR.
3. VESSEL SHIPPING WEIGHT: ~4,000 lbs
MEDIA SHIPPING WEIGHT : ~17,975 lbs
OPERATING WEIGHT : ~18,500 lbs
4. PLACE ON SLOPED CONCRETE, 0.0625" PER FOOT FROM FAN TO DRAIN .
5. SERVICE REQUIREMENT :
ELECTRICAL: 460VAC, 3 PH, 60 HZ, 11.3 FLA
POTABLE WATER: 1.00" LINE (30 PSI MIN.)
6. 7.00" (MIN.) BAROMETRIC P-TRAP ON DRAIN, PROVIDED BY OTHERS.
7. UNIT TO BE INSTALLED (BY CONTRACTOR) ON 0.25" THICK NEOPRENE RUBBER SHEET OF 60 DUROMETER.



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SARASOTA COUNTY PUBLIC UTILITIES DEPARTMENT
HOME DEPOT MPS AND FM

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1	DEC 2025	100% BID PLAN	BV, AS
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DATE: DECEMBER 2025
PROJECT NO.: 30036073
FILE NAME: M-03
DESIGNED BY: STEVE TOPOVSKI
DRAWN BY: ALEX SPEKTOR
CHECKED BY: BRYAN VEITH

SHEET TITLE

MECHANICAL
PUMP STATION PLAN VIEW

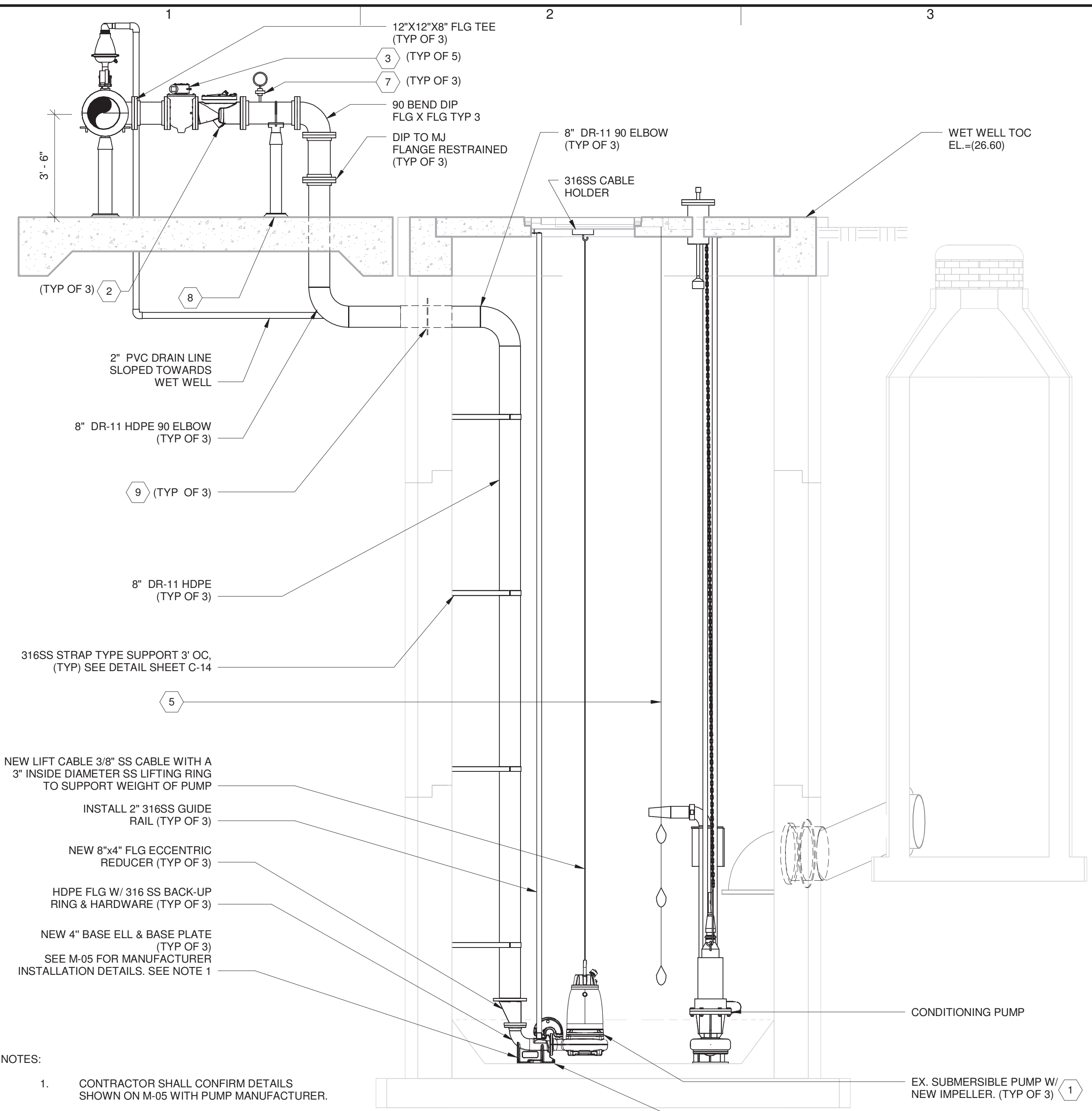
SCALE: AS SHOWN

M-03
SHEET 35 OF 60

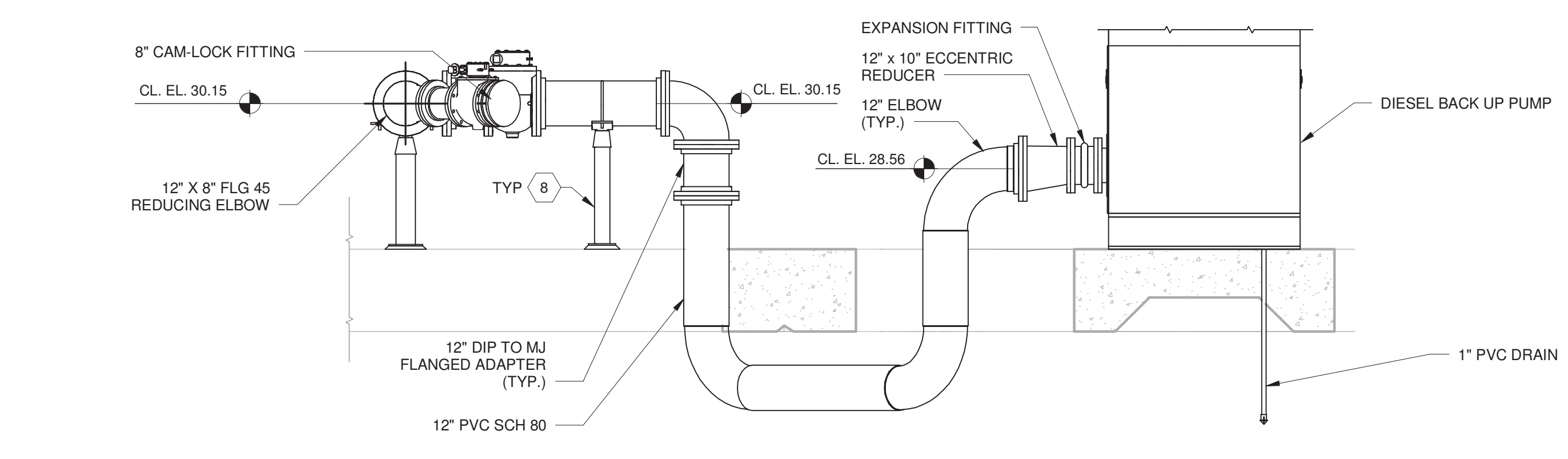
Sarasota County
CONSULTANTS
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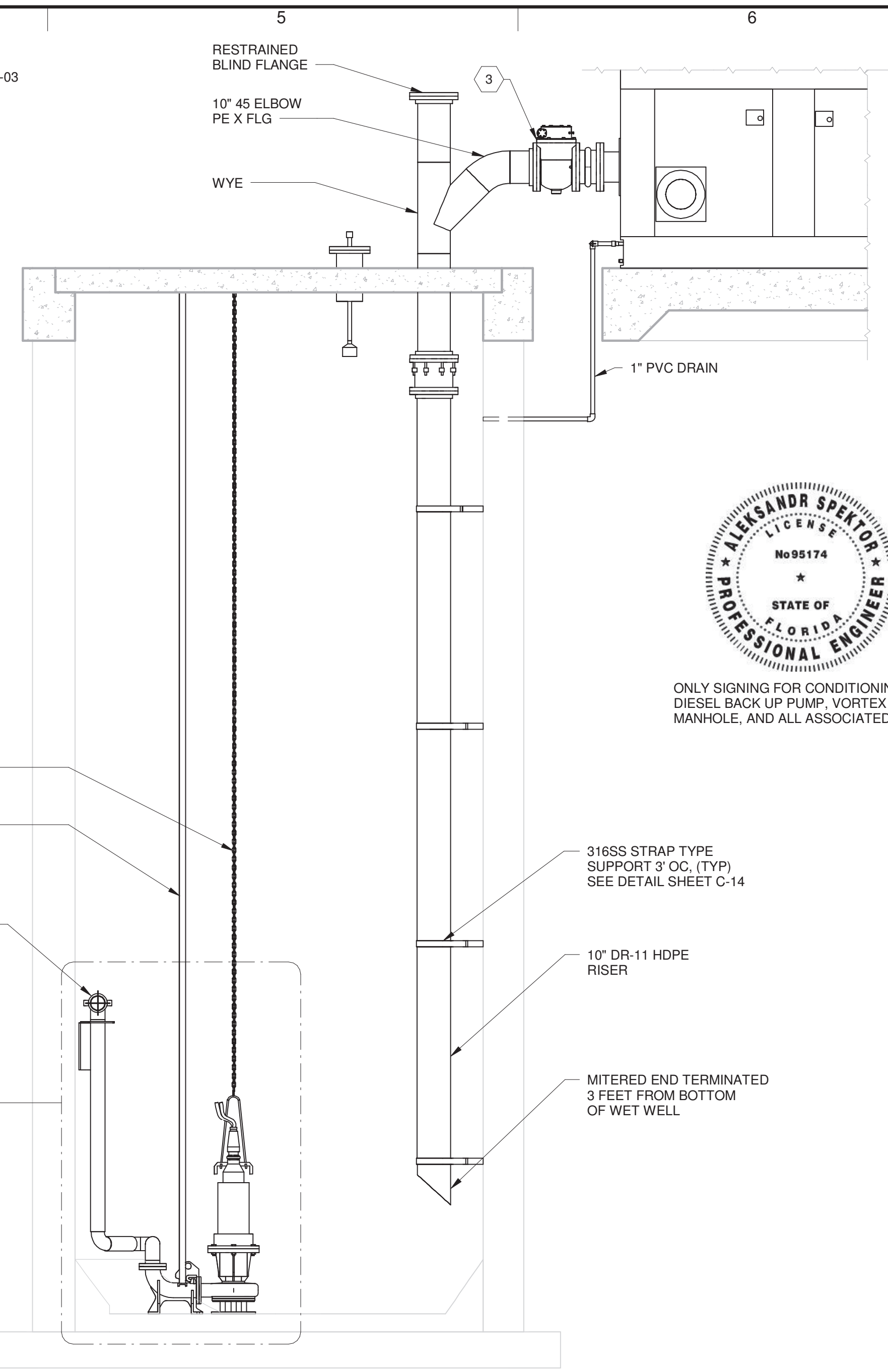


1 SECTION
M-03 SCALE: 3/8" = 1'-0"
0' 2' 4' 6'

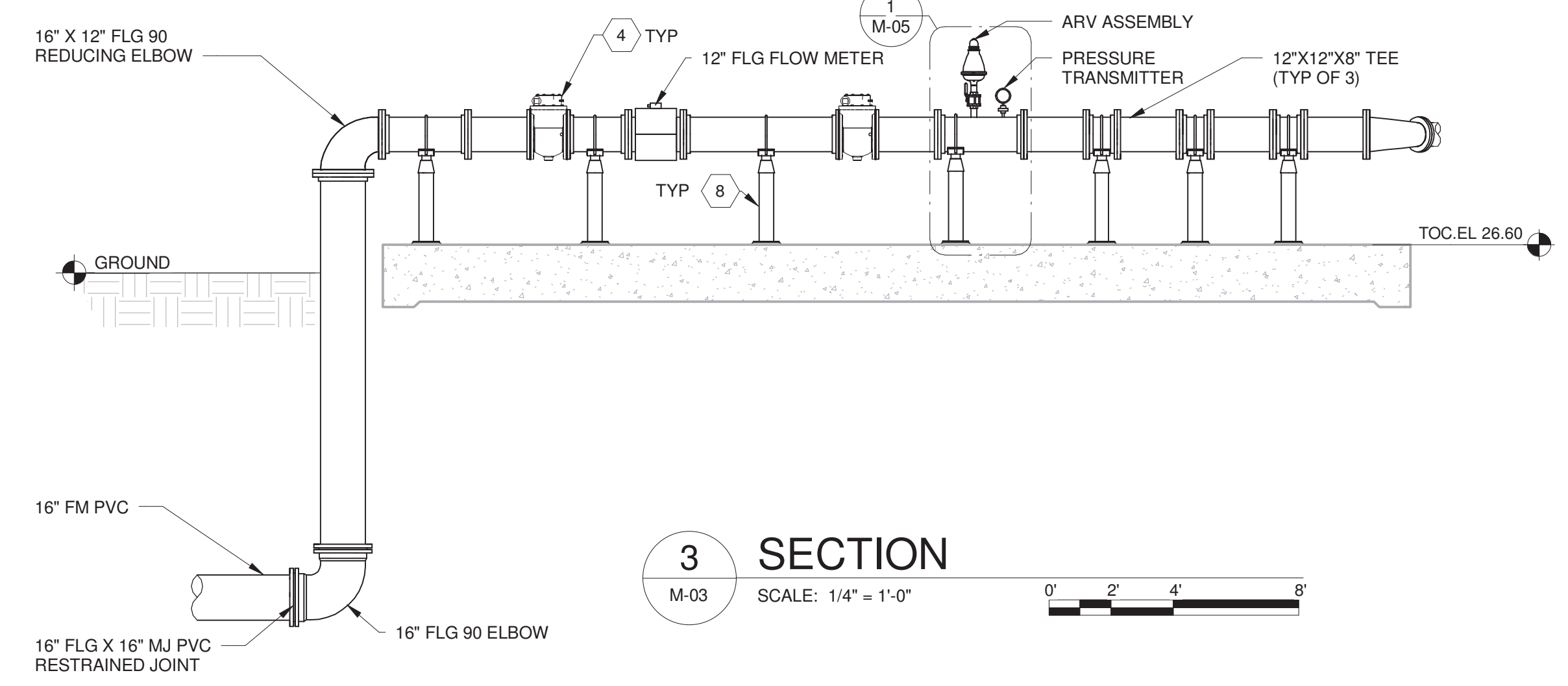


4 SECTION
M-03 SCALE: 3/8" = 1'-0"
0' 2' 4' 6'

NUMBERS ON THIS DRAWING REFER TO KEY NOTES LEGEND ON M-03



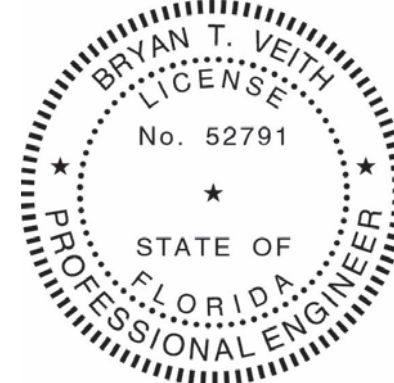
2 SECTION
M-03 SCALE: 3/8" = 1'-0"
0' 2' 4' 6'



3 SECTION
M-03 SCALE: 1/4" = 1'-0"
0' 2' 4' 6'



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HOME DEPOT MPS AND FM

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DATE: DECEMBER 2025
PROJECT NO.: 30036073
FILE NAME: M-04
DESIGNED BY: STEVE TOPOVSKI
DRAWN BY: ALEX SPEKTOR
CHECKED BY: BRYAN VEITH

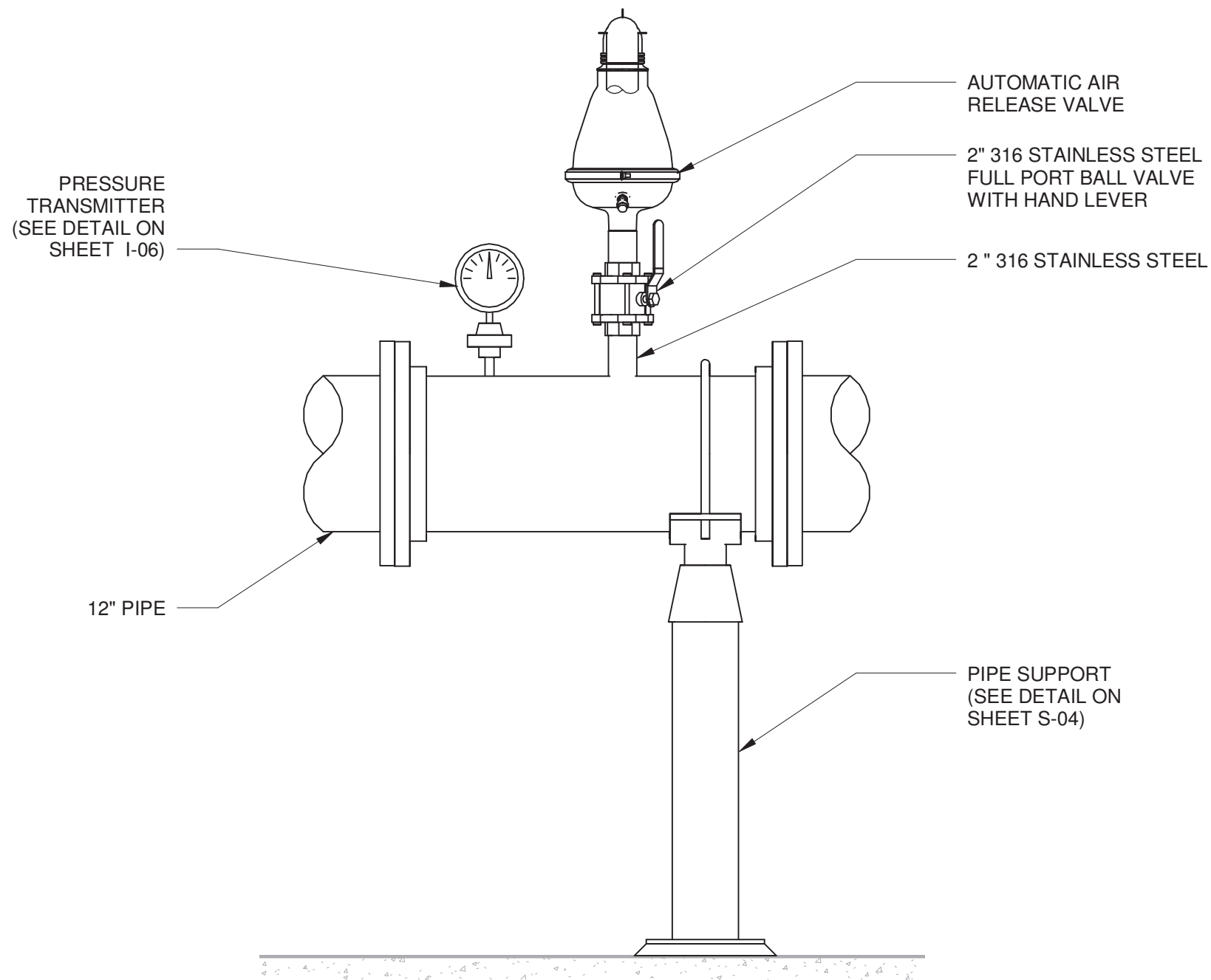
SHEET TITLE
MECHANICAL

PUMP STATION SECTION VIEW

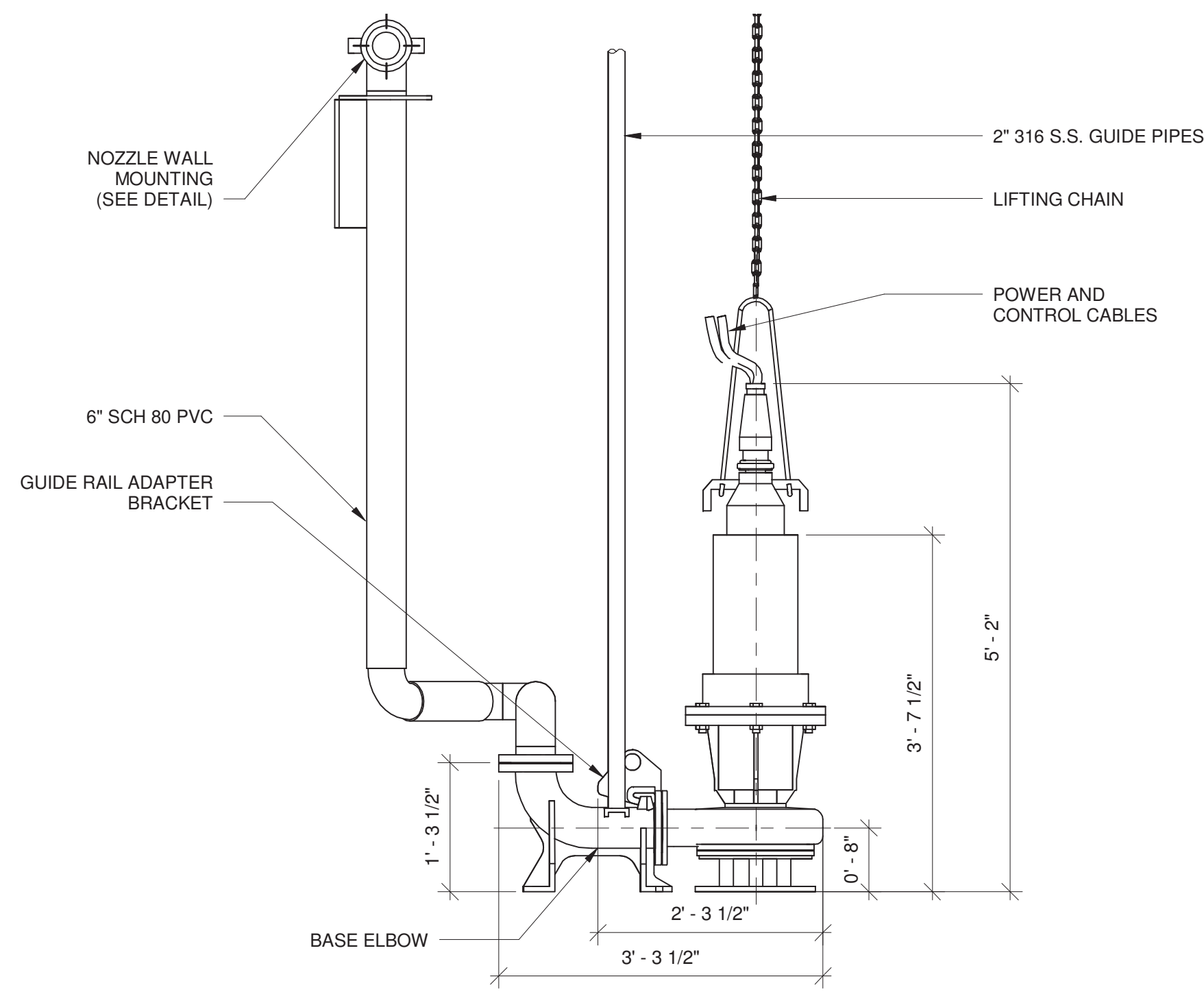
SCALE: As indicated

M-04
SHEET 36 OF 60

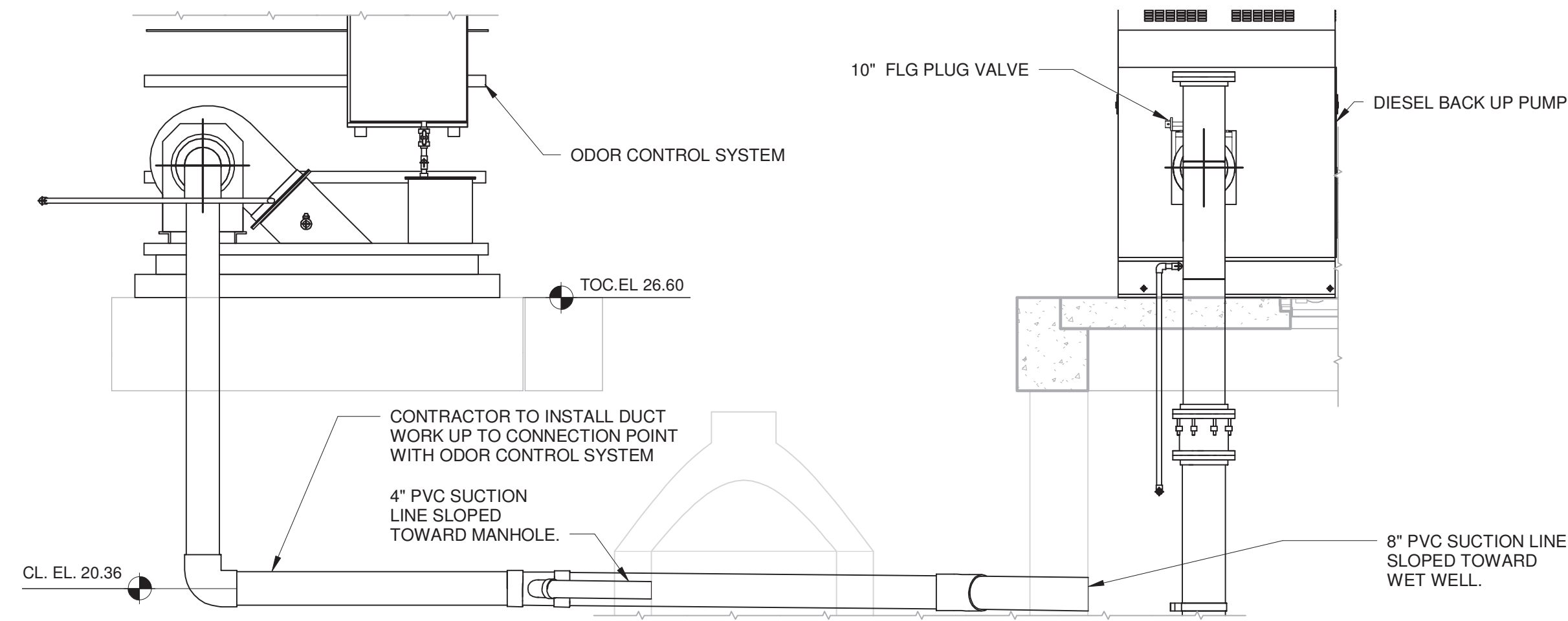
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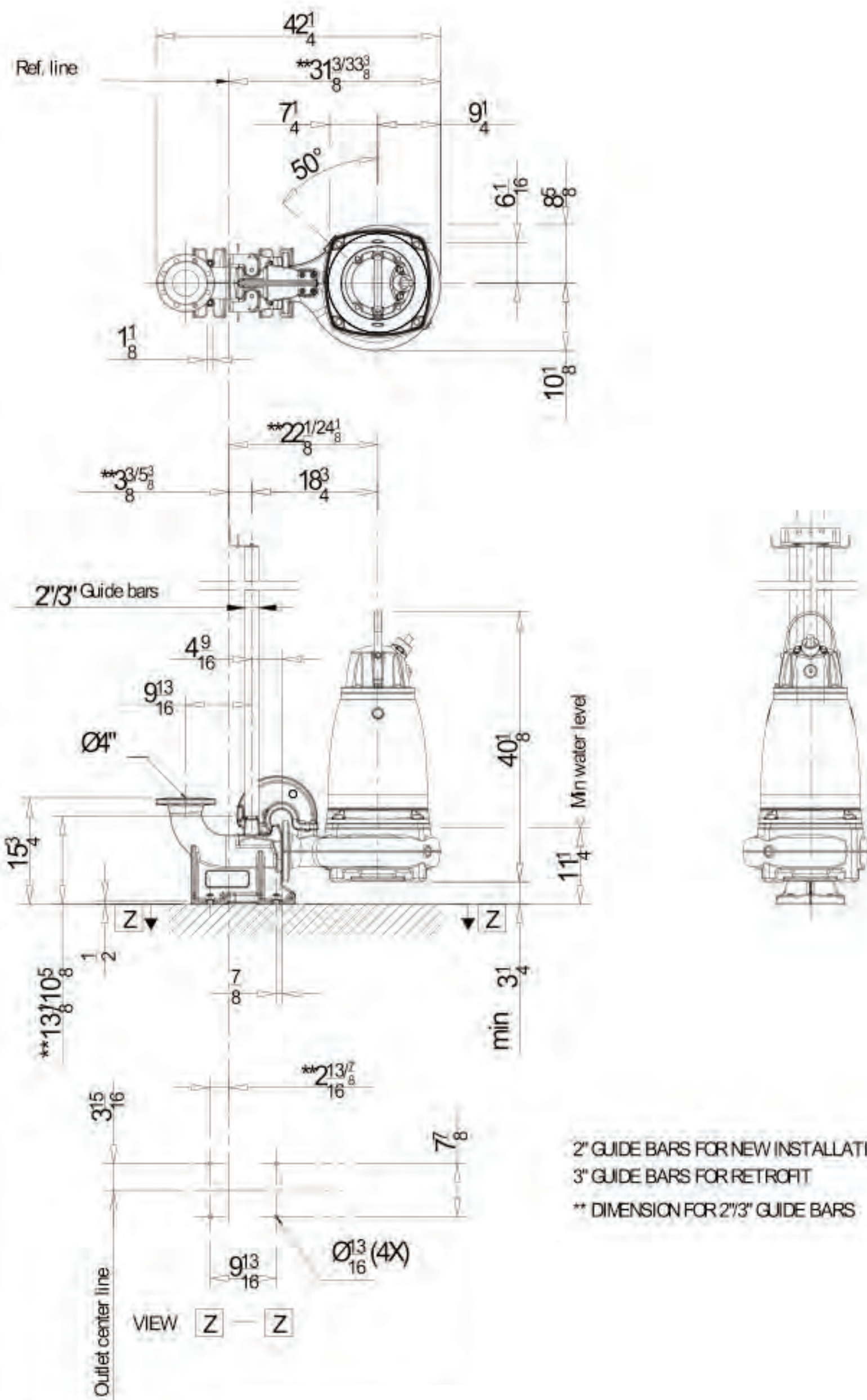
1 ARV ASSEMBLY DETAIL
M-04 NOT TO SCALE



2 CONDITIONING PUMP DETAIL
M-04 NOT TO SCALE



3 SECTION
M-03 SCALE: 3/8" = 1'-0"

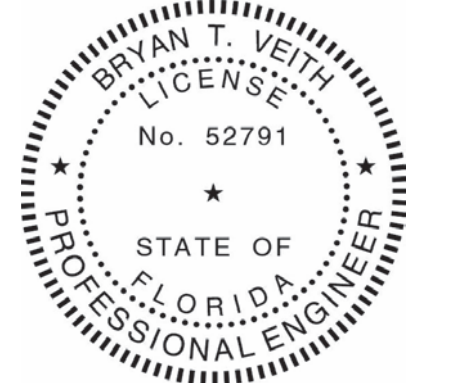


- NOTES:**
1. FINISH: AS SPECIFIED ON LIST OF EQUIP. IN ENGINEERING SUBMITTAL.
 2. ALL FASTENERS TO BE 300 SERIES STAINLESS STEEL.
 3. THIS NOZZLE IS DESIGNED TO BE AN INTEGRAL PART OF VAUGHAN'S ROTAMIX™ SYSTEM. THE DISCHARGE NOZZLES ARE DESIGNED TO MIX THE DIGESTER OR STORAGE TANK IN A ROTATIONAL MANNER.
 4. ALL COMPONENTS ARE MADE OF GLASS-LINED DUCTILE IRON ASTM A536, EXCEPT FOR THE BASE, WHICH IS 1/2" THICK 1018 HR STEEL.
 5. 360° FULLY ADJUSTABLE NOZZLES ARE TO BE POSITIONED IN THE FIELD BY VAUGHAN.
 6. PROVIDE 4, 5/8" X 7" LONG 316 S.S. ANCHOR BOLTS.
 7. MIXING NOZZLE ASSEMBLY WEIGHT: 353 LBS.

4 NOZZLE WALL MOUNTING DETAIL
M-03 NOT TO SCALE



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DATE: DECEMBER 2025
PROJECT NO.: 30036073
FILE NAME: M-05
DESIGNED BY: STEVE TOPOVSKI
DRAWN BY: ALEX SPEKTOR
CHECKED BY: BRYAN VEITH

SHEET TITLE

MECHANICAL
MECHANICAL DETAILS

SCALE: As indicated

GENERAL

- G-1 THESE NOTES ARE GENERAL AND SUPPLEMENTAL TO THE SPECIFICATIONS AND APPLY TO THE ENTIRE PROJECT UNLESS MODIFIED OR NOTED OTHERWISE IN THE CONTRACT DOCUMENTS.
- G-2 STANDARD DETAILS SHOWN ON STRUCTURAL TYPICAL DRAWINGS SHALL BE USED, UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
- G-3 DESIGN IS IN ACCORDANCE WITH AND CONSTRUCTION SHALL COMPLY WITH THE PROVISIONS OF THE 2023 FLORIDA BUILDING CODE 8th EDITION EXCEPT WHERE OTHER APPLICABLE CODES AND THE CONTRACT DOCUMENTS ARE MORE RESTRICTIVE.
- G-4 LIVE LOADS: AS SHOWN ON DRAWINGS.
- G-5 WIND DESIGN DATA:
1. ULTIMATE DESIGN WIND SPEED: 148 MPH
2. RISK CATEGORY: III
3. WIND EXPOSURE: C
- G-6 THE ASTERISK (*) TO BE SHOWN IN THE DRAWINGS ARE TO BE VERIFIED EITHER BY FIELD MEASUREMENTS FOR EXISTING STRUCTURES OR BY SHOP DRAWINGS FOR EQUIPMENT FURNISHED. STRUCTURAL DIMENSIONS NOT SHOWN BUT CONTROLLED BY OR RELATED TO EQUIPMENT SHALL BE VERIFIED BY THE CONTRACTOR WITH THE MANUFACTURER PRIOR TO CONSTRUCTION.
- G-7 EQUIPMENT ANCHOR BOLT SIZES, TYPES, AND PATTERNS SHALL BE AS REQUIRED BY THE APPROVED EQUIPMENT MANUFACTURER. ALL BOLT PATTERNS SHALL BE TEMPLATED TO ENSURE ACCURACY OF PLACEMENT.
- G-8 STRUCTURAL DRAWINGS SHALL BE USED IN COORDINATION WITH DRAWINGS OF ALL OTHER DISCIPLINES AND MANUFACTURER'S SHOP DRAWINGS.
- G-9 IF A CONFLICT IS FOUND BETWEEN DIFFERENT PORTIONS OF THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY. CONTINUED CONSTRUCTION OF THE AREA IN CONFLICT SHALL BE AT THE CONTRACTOR'S OWN RISK UNTIL THE CONFLICT IS RESOLVED BY THE ENGINEER.
- G-10 STRUCTURES HAVE BEEN DESIGNED FOR OPERATIONAL LOADS ON THE COMPLETED STRUCTURE. DURING CONSTRUCTION, THE STRUCTURES SHALL BE PROTECTED BY BRACING AND TEMPORARY SUPPORTS WHEREVER EXCESSIVE CONSTRUCTION LOADS MAY OCCUR. OVERSTRESSING OF ANY STRUCTURAL ELEMENT IS PROHIBITED.
- G-11 DO NOT SCALE THESE DRAWINGS, USE DIMENSIONS.
- G-12 CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD.
- G-13 WHERE CONNECTIONS TO OR MODIFICATIONS OF EXISTING STRUCTURES ARE SHOWN, EXISTING FOUNDATIONS, WALLS, COLUMNS, SLABS, BEAMS, FLOORS, DECKS, (CONCRETE, STEEL, TIMBER, ETC.) ARE ASSUMED TO BE IN GOOD CONDITION. THIS MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR. UNSOUND CONDITIONS SHALL BE REPORTED TO THE ENGINEER. ALL UNSOUND STRUCTURAL ELEMENTS SHALL BE REPAIRED TO SOUND CONDITION AS APPROVED BY THE ENGINEER. EXISTING CONSTRUCTION DIMENSIONS SHALL BE VERIFIED BY THE CONTRACTOR BEFORE WORK COMMENCES. VARIATIONS FROM DIMENSIONS SHOWN ON THESE DRAWINGS SHALL BE REPORTED TO THE ENGINEER.
- G-14 OPENINGS AND PENETRATIONS:
THE CONTRACTOR SHALL SUBMIT COMPOSITE DRAWINGS INDICATING ALL FLOOR OPENINGS AND PENETRATIONS THROUGH STRUCTURAL MEMBERS REQUIRED TO ACCOMMODATE THE HVAC, PLUMBING AND ELECTRICAL WORK. THE CONTRACTOR SHALL FOLLOW THE TYPICAL FRAMING DETAILS AT OPENINGS AND REINFORCEMENT DETAILS AT PENETRATIONS THROUGH STRUCTURAL MEMBERS. ACCORDINGLY, THE CONTRACTOR SHALL SUBMIT SHOP DETAILS TO THE ENGINEER FOR REVIEW.

FOUNDATIONS

- F-1 DESIGN CRITERIA:
A) ALLOWABLE SOIL BEARING PRESSURE FOR SPREAD FOOTINGS: AS SHOWN ON DWGS.
- F-2 CONCRETE GENERAL NOTES APPLY TO FOUNDATIONS.
- F-3 PROVIDE 12" MINIMUM CRUSHED STONE UNDER ALL FOUNDATIONS.

CONCRETE

- C-1 CONCRETE 28-DAY COMPRESSIVE STRENGTH:
CLASS A - 4500 PSI
- C-2 REINFORCEMENT: ASTM A615, GRADE 60.
- C-3 CONCRETE COVER FOR REINFORCING:
A) SURFACES CAST AGAINST EARTH 3"
B) ALL OTHER SURFACES 2"
- C-4 CONSTRUCTION JOINTS SHALL BE LOCATED AS SHOWN ON THE DRAWINGS. WHERE NOT SHOWN, CONSTRUCTION JOINTS SHALL BE LOCATED AS REQUIRED BY THE SPECIFICATIONS. CONSTRUCTION JOINT TYPES AND LOCATIONS SHALL BE AS APPROVED BY THE ENGINEER.
- C-5 PROVIDE PVC WATERSTOPS IN ALL FOUNDATIONS, SLABS AND WALLS FOR WATER RETAINING STRUCTURES.
- C-6 EQUIPMENT SUPPORTS, ANCHORAGES, OPENINGS, RECESSES AND REVEALS NOT SHOWN ON THE STRUCTURAL DRAWINGS BUT REQUIRED BY OTHER CONTRACT DOCUMENTS, SHALL BE PROVIDED FOR PRIOR TO PLACING CONCRETE.
- C-7 AT ALL TYPICAL CURBS, EQUIPMENT PADS, AND PIPE SUPPORT PIERS, REINFORCING DOWELS SHOWN MAY BE REPLACED WITH MATCHING DOWELS SET IN EPOXY IN DRILLED HOLES AS SPECIFIED. DOWELS LOCATED CLOSER THAN 3 INCHES FROM ANY EDGE OF CONCRETE SHALL NOT BE REPLACED WITH DRILLED DOWELS.
- C-8 WHERE DRILLED EPOXY DOWELS ARE PLACED INTO HARDENED CONCRETE, ADJUST THE DOWEL LOCATIONS AS NEEDED TO AVOID DRILLING THROUGH ANY REINFORCING BARS. IF THE DOWEL LOCATION NEEDS TO BE MODIFIED, CONTACT THE ENGINEER BEFORE PROCEEDING.
- C-9 DOWELS, ANCHOR BOLTS, PIPES, AND OTHER EMBEDDED ITEMS SHALL BE HELD SECURELY IN POSITION WHILE CONCRETE IS BEING PLACED.
- C-10 CONDUITS AND PIPES EMBEDDED IN OR PENETRATING THROUGH CONCRETE SHALL BE SPACED AS SHOWN ON TYPICAL DETAILS.
- C-11 CONDUITS AND PIPES SHALL NOT BE EMBEDDED IN OR PASS THROUGH COLUMNS OR BEAMS UNLESS INDICATED OTHERWISE OR AUTHORIZED BY ENGINEER.
- C-12 REINFORCING BARS AND ACCESSORIES SHALL NOT BE IN CONTACT WITH ANY METAL PIPE, PIPE FLANGE, METAL CONDUIT, OR OTHER METAL PARTS EMBEDDED IN CONCRETE. A MINIMUM CLEARANCE OF 2 INCHES SHALL BE PROVIDED.
- C-13 CONTRACTOR SHALL PROVIDE 3/4 INCH CHAMFER USING WOOD CHAMFER STRIPS ON ALL EXPOSED CORNERS OF COLUMNS, BEAMS AND WALLS OR AS REQUIRED TO MATCH EXISTING.
- C-14 LAP SPLICES SHALL BE IN ACCORDANCE WITH THE TABLE SHOWN ON THIS SHEET.

LAP SPLICE AND EMBEDMENT LENGTH TABLE

BAR SIZE	REINFORCEMENT LAP SPLICE, EMBEDMENT LENGTH AND STANDARD HOOKS (INCHES)											
	MIN LAP LENGTHS FOR				MIN EMBEDMENT LENGTHS				MIN STD. HOOKS			
	BEAMS AND COLUMNS* CLASS B		SLABS AND WALLS ** CLASS B		FOR BEAMS AND COLUMNS *		FOR SLABS AND WALLS **		WITH STANDARD HOOK	90°		135°
	TOP***	OTHERS	TOP***	OTHERS	TOP***	OTHERS	TOP***	OTHERS		A OR G	A OR G	
#3	25	19	16	16	19	15	12	12	5	6	4	2.5
#4	33	25	20	16	25	19	15	12	7	8	4.5	3
#5	41	31	25	19	31	24	19	15	9	10	5.5	3.75
#6	49	37	29	23	37	29	23	18	10	12	8	4.5
#7	71	54	43	33	54	42	33	25	12	14	9	5.25
#8	81	62	49	37	62	48	37	29	14	16	10.5	6
#9	91	70	60	46	70	54	46	36	15	19	-	-
#10	102	79	74	57	79	61	57	44	17	22	-	-
#11	114	87	89	69	87	67	68	53	19	24	-	-

REINFORCEMENT LAP SPLICE, EMBEDMENT LENGTH AND STANDARD HOOKS TABLE IS BASED ON A MINIMUM CONCRETE COMPRESSIVE STRENGTH OF 4000 PSI AND 60000 PSI REINFORCEMENT (WITH NO EPOXY COATING).

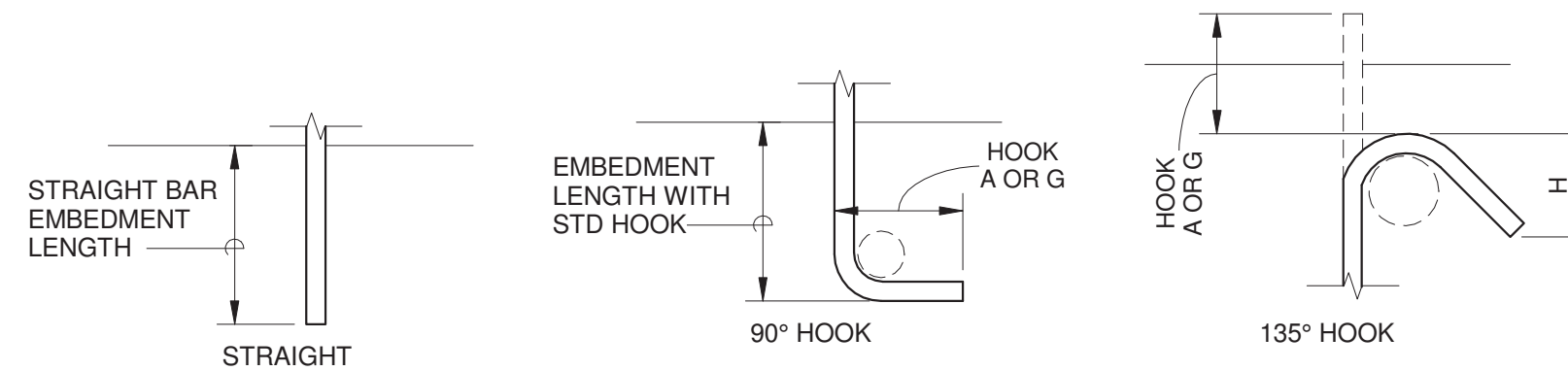
ALL LAPS SPLICES SHALL BE CLASS B SPLICES.

* THE MINIMUM LAP LENGTH FOR BEAMS, COLUMNS AND STRAIGHT EMBEDMENTS ARE BASED ON A 3 BAR DIAMETER MINIMUM CENTER TO CENTER BAR SPACING AND A 2 INCH BAR COVER. IF THE SPLICE AND/OR EMBEDMENT DOES NOT CONFORM TO THESE REQUIREMENTS, THEN CONTRACTOR SHALL APPLY APPROPRIATE FACTORS IN COMPLIANCE WITH ACI 318 WITH APPROVAL BY ENGINEER.

** THE MINIMUM LAP LENGTH FOR SLABS, WALLS AND STRAIGHT EMBEDMENTS ARE BASED ON A 6 INCH BAR SPACING AND A 2 INCH BAR COVER. IF THE LAP CONDITION DOES NOT CONFORM TO THESE REQUIREMENTS, THEN USE BEAM LAP LENGTHS; OR COMPLY WITH LAP REQUIREMENTS OF ACI 318 WITH APPROVAL BY ENGINEER.

*** TOP BARS ARE DEFINED AS ALL HORIZONTAL BARS WITH 12" OR MORE FRESH CONCRETE BENEATH.

WHERE SPLICES ARE REQUIRED BETWEEN BARS OF DIFFERENT SIZES, THE LAP LENGTH SHALL BE NO LESS THAN THE EMBEDMENT LENGTH OF THE LARGER BAR OR THE LAP LENGTH OF THE SMALLER BAR, WHICHEVER IS GREATER.



ABBREVIATIONS

@	ARCHITECT OR ARCHITECTURAL	HORIZ	HORIZONTAL
ARCH	ARCHITECT	HP	HIGH POINT
ACI	AMERICAN CONCRETE INSTITUTE	INT.	INTERIOR
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	JT.	JOINT
B/W	BETWEEN	LBS	POUNDS
CL	COLUMN CENTER LINE	LP	LOW POINT
C/L	COLUMN CENTERLINE	MAX	MAXIMUM
C/C	CENTER TO CENTER	MIN	MINIMUM
COL	COLUMN	N.T.S.	NOT TO SCALE
CONC	CONCRETE	O.C.	ON CENTER
CONT	CONTINUOUS	O	OVER
CRSI	CONCRETE REINFORCING STEEL INSTITUTE	O/O	OUT TO OUT
DIA	DIAMETER	SQ	SQUARE
DIAG	DIAGONAL	STD	STANDARD
DWG	DRAWING	STL	STEEL
∅	DIAMETER	SST	STAINLESS STEEL
EA	EACH	T&B	TOP & BOTTOM
E.W.	EACHWAY	TBS	TO BE DETERMINED
EL.	ELEVATION	T/	TOP
EX	EXISTING	T.O.C	TOP OF CONCRETE
EXT.	EXTERIOR	TYP.	TYPICAL
EXP.	EXPANSION	UN	UNLESS OTHERWISE NOTED
FDN	FOUNDATION	VERT	VERTICAL
FTG.	FOOTING	W/	WITH
F.F.	FINISHED FLOOR		
F.F.E.	FINISHED FLOOR ELEVATION		

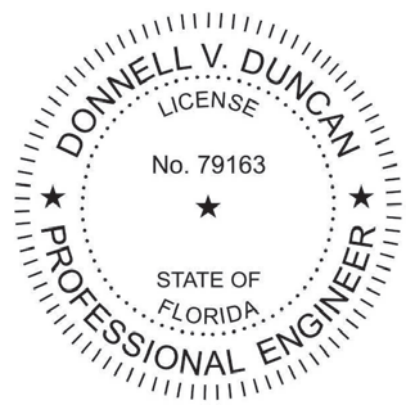


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DATE: DECEMBER 2025
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FILE NAME: S-3D-SS_R21
DESIGNED BY: HOUSAM HOBI
DRAWN BY: VINOD NAIR
CHECKED BY: DONNELL DUNCAN

SHEET TITLE

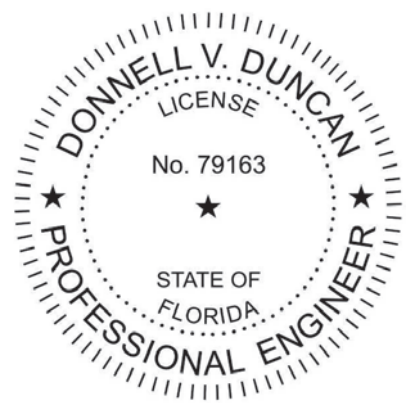
STRUCTURAL

GENERAL NOTES , LAP
SPLICE TABLE AND
ABBREVIATIONS

SCALE: NOT TO SCALE

S-01

SHEET 38 OF 60



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DATE:	DECEMBER 2025
PROJECT NO.:	30036073
FILE NAME:	S-3D-SS_R21
DESIGNED BY:	HOUSAM HOBI
DRAWN BY:	VINOD NAIR
CHECKED BY:	DONNELL DUNCAN

SHEET TITLE

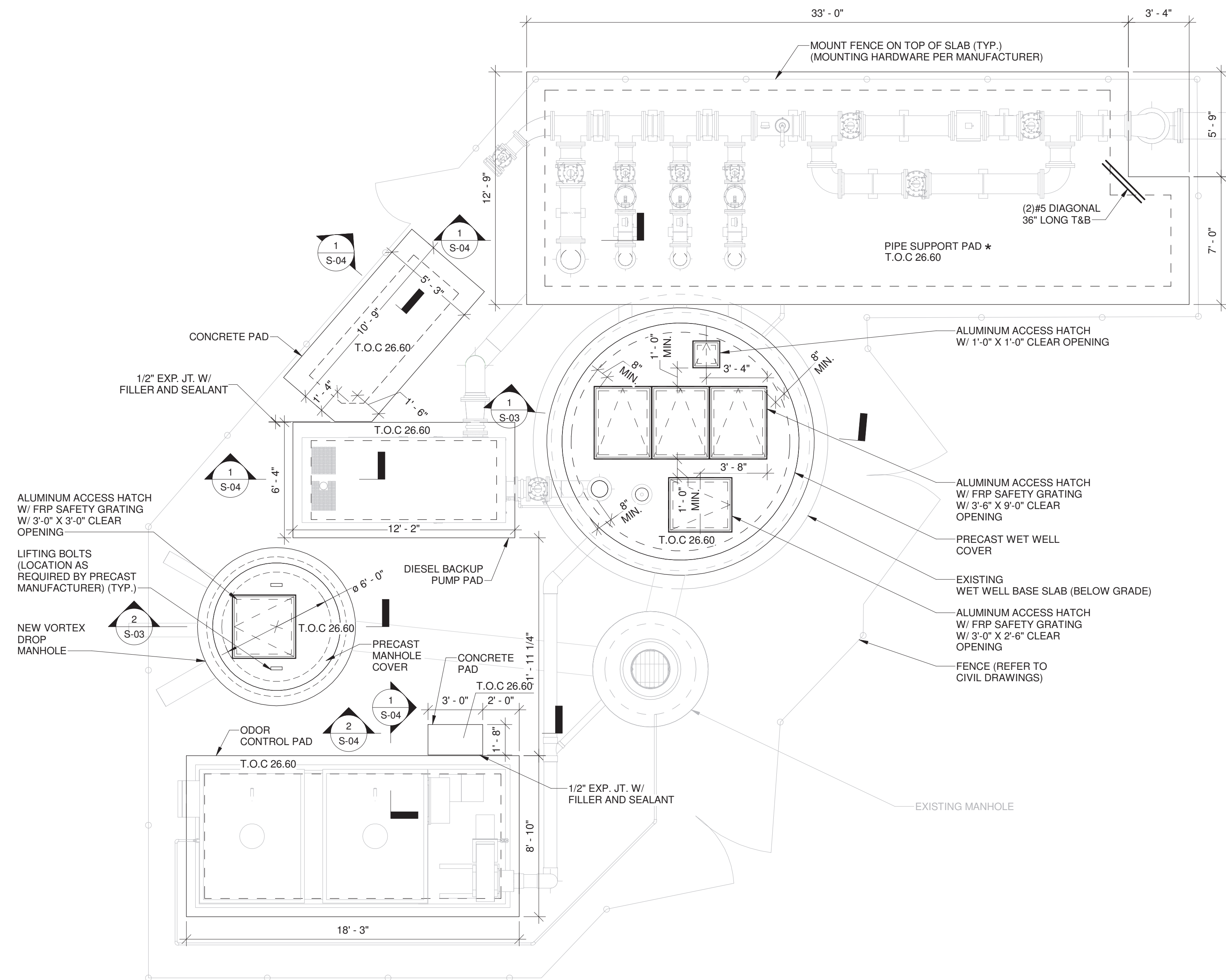
STRUCTURAL

SITE LAYOUT

SCALE: 1/4" = 1'-0"

S-02

SHEET 39 OF 60



SITE LAYOUT

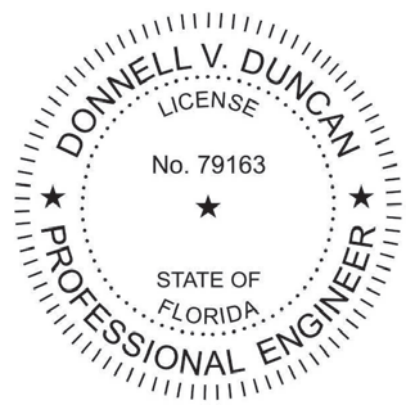
SCALE: 1/4" = 1'-0"



* SLOPE TOP OF SLAB WITH A MINIMUM OF 1% SLOPE FOR DRAINAGE.

NOTES:

- DESIGN LIVE LOAD FOR CONCRETE PADS : 300 PSF.
- ASSUMED ALLOWABLE SOIL BEARING CAPACITY = 1500 PSF.
- THE SOIL BEARING CAPACITY AND CONSISTENCY SHALL BE VERIFIED FOR THE SLAB ON GRADE LIMITS BY THE CONTRACTOR'S REGISTERED GEOTECHNICAL ENGINEER WHEN FOUNDATION EXCAVATIONS HAVE BEEN CARRIED DOWN TO THE DESIGN BOTTOM ELEVATIONS.
- GEOTECHNICAL ENGINEER SHALL PROVIDE A SIGNED AND SEALED LETTER CERTIFYING SOIL BEARING CAPACITY AND SUB BASE REQUIREMENTS FOR THE FOUNDATION OF THE STRUCTURE.
- REFERENCE OTHER DISCIPLINE DRAWINGS FOR LOCATION AND ELEVATIONS OF THE STRUCTURES ON THE STRUCTURAL DRAWINGS.
- EQUIPMENT ANCHORAGE DESIGN IS THE RESPONSIBILITY OF MANUFACTURER. PROVIDE SIGNED AND SEALED ANCHORAGE DESIGN DRAWINGS AND CALCULATIONS INCLUDING THE REQUIRED ANCHOR SIZE, EMBEDMENT AND CONCRETE EDGE DISTANCE. FOR REVIEW AND APPROVAL BY ENGINEER AND PROVIDE BACKFILL RECOMMENDATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ENGINEERING, DESIGN AND INSTALLATION OF TEMPORARY SHORING TO PROTECT THE EXISTING STRUCTURE DURING SHORING INSTALLATION, EXCAVATION AND CONSTRUCTION. PROVIDE SHORING DESIGN DRAWINGS AND CALCULATIONS, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA FOR REVIEW AND APPROVAL BY ENGINEER. DESIGN PACKAGE SHALL INCLUDE TYPE OF TEMPORARY SHORING AND INSTALLATION PROCESS.
- TEMPORARY SHORING SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL GEOTECHNICAL ENGINEER REGISTERED IN THE STATE OF FLORIDA HIRED BY THE CONTRACTOR.
- CONTRACTOR SHALL MONITOR THE EXISTING STRUCTURE FOR ANY SIGNS OF MOVEMENT AND CRACKING DURING ALL PHASES OF CONSTRUCTION.
- CONTRACTOR SHALL SUBMIT THE DEWATERING PLAN FOR REVIEW AND APPROVAL BY ENGINEER.
- ALL ANCHOR BOLTS SHALL BE SS316.



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SARASOTA COUNTY, FLORIDA

SARASOTA COUNTY
PUBLIC UTILITIES
DEPARTMENT

HOME DEPOT MPS
AND FM

100% BID SUBMITTAL

NO.	DATE	ISSUED FOR	DD BY
1	DEC 2025	100% BID PLANS	DD

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DATE: DECEMBER 2025
PROJECT NO.: 30036073
FILE NAME: S-3D-SS_R21
DESIGNED BY: HOUSAM HOBI
DRAWN BY: VINOD NAIR
CHECKED BY: DONNELL DUNCAN

SHEET TITLE

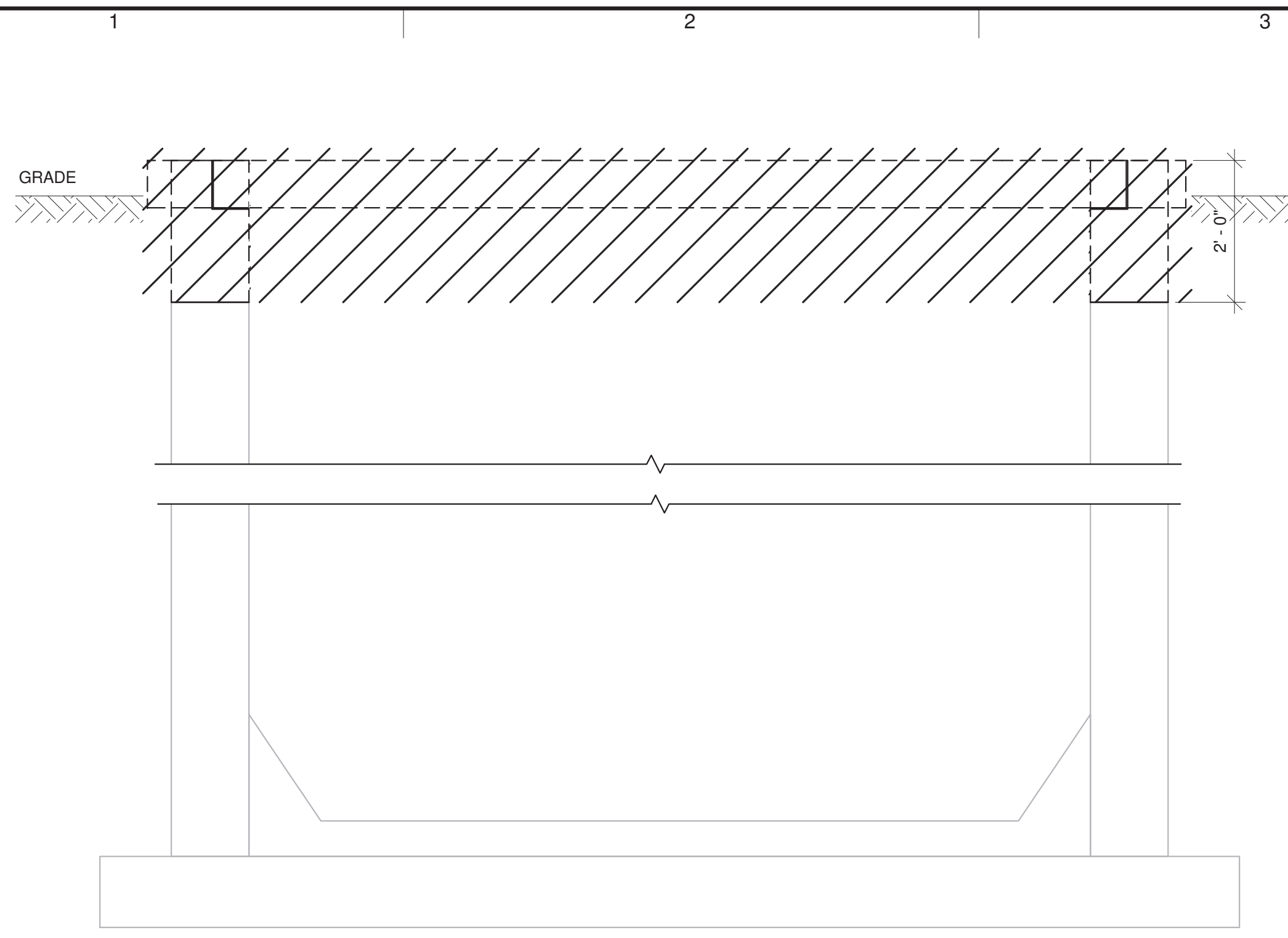
STRUCTURAL

SECTIONS

SCALE: AS INDICATED

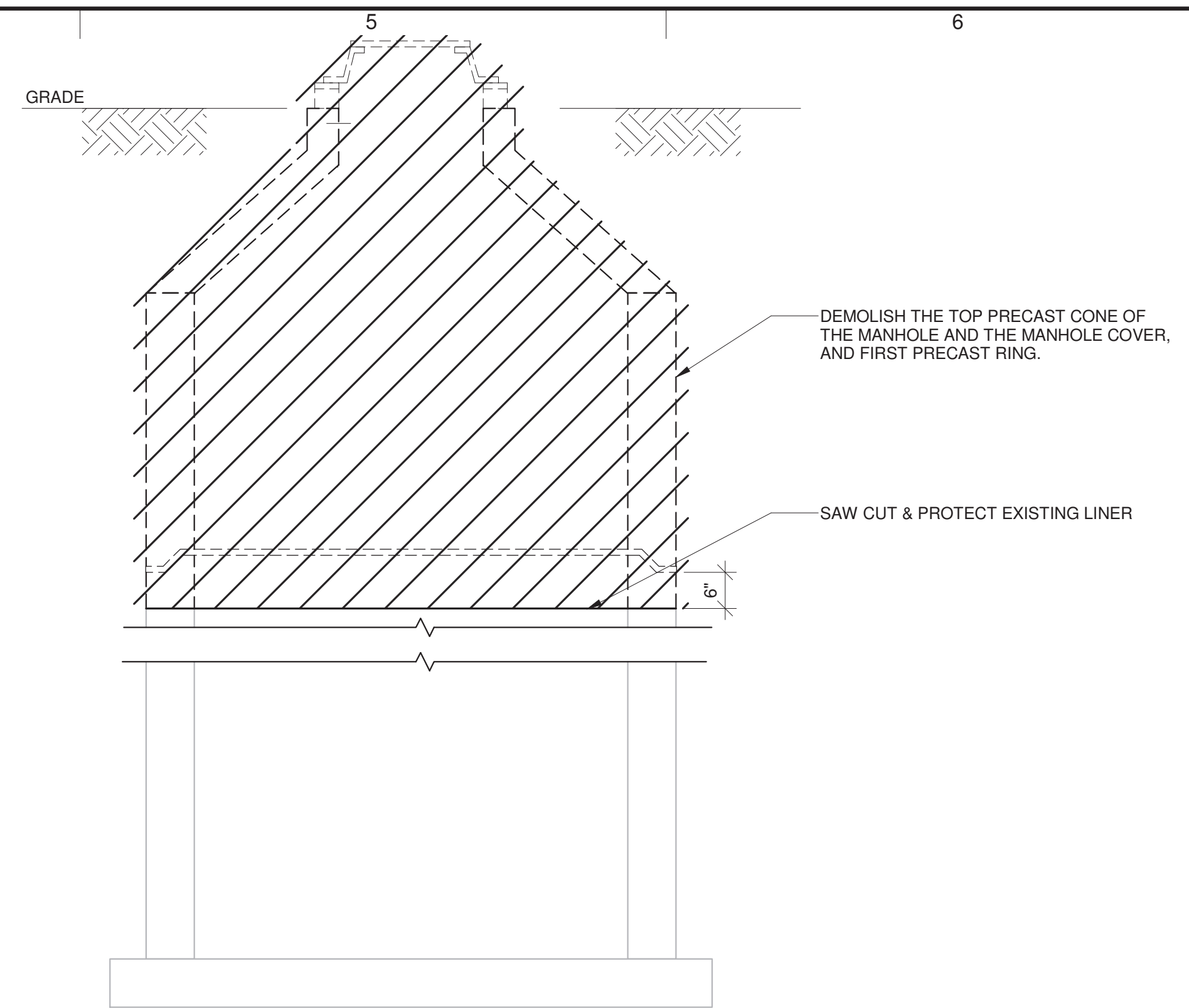
S-03

SHEET 40 OF 60



EXISTING WET WELL DEMOLITION SECTION

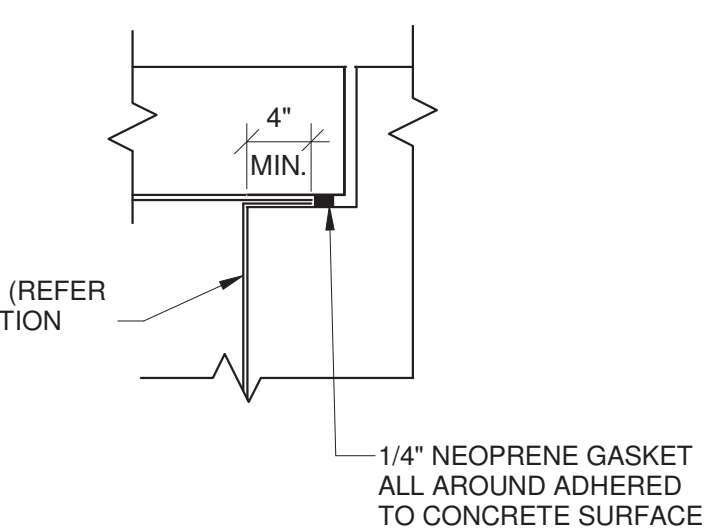
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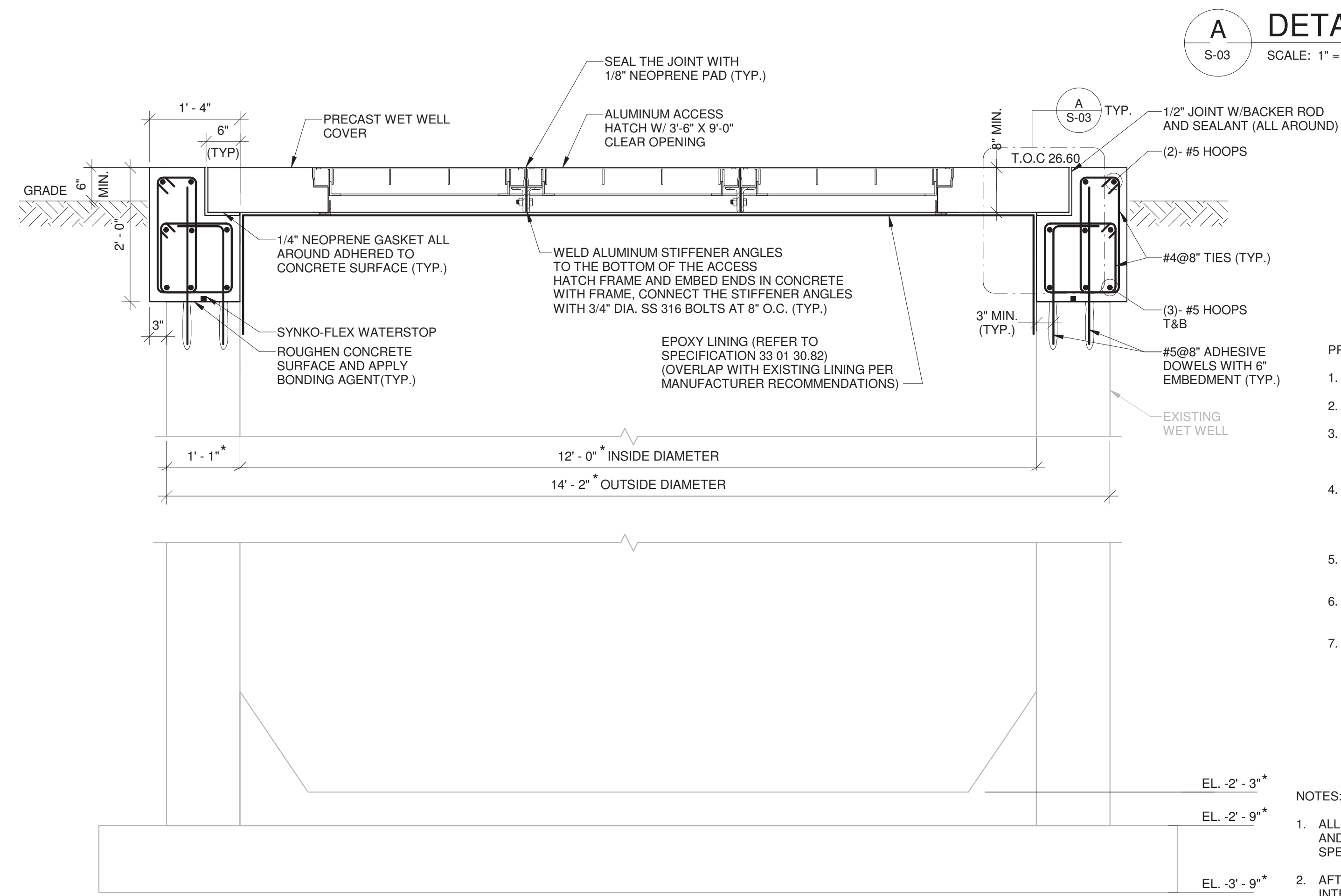
EXISTING VORTEX DROP MANHOLE DEMOLITION SECTION

NOT TO SCALE

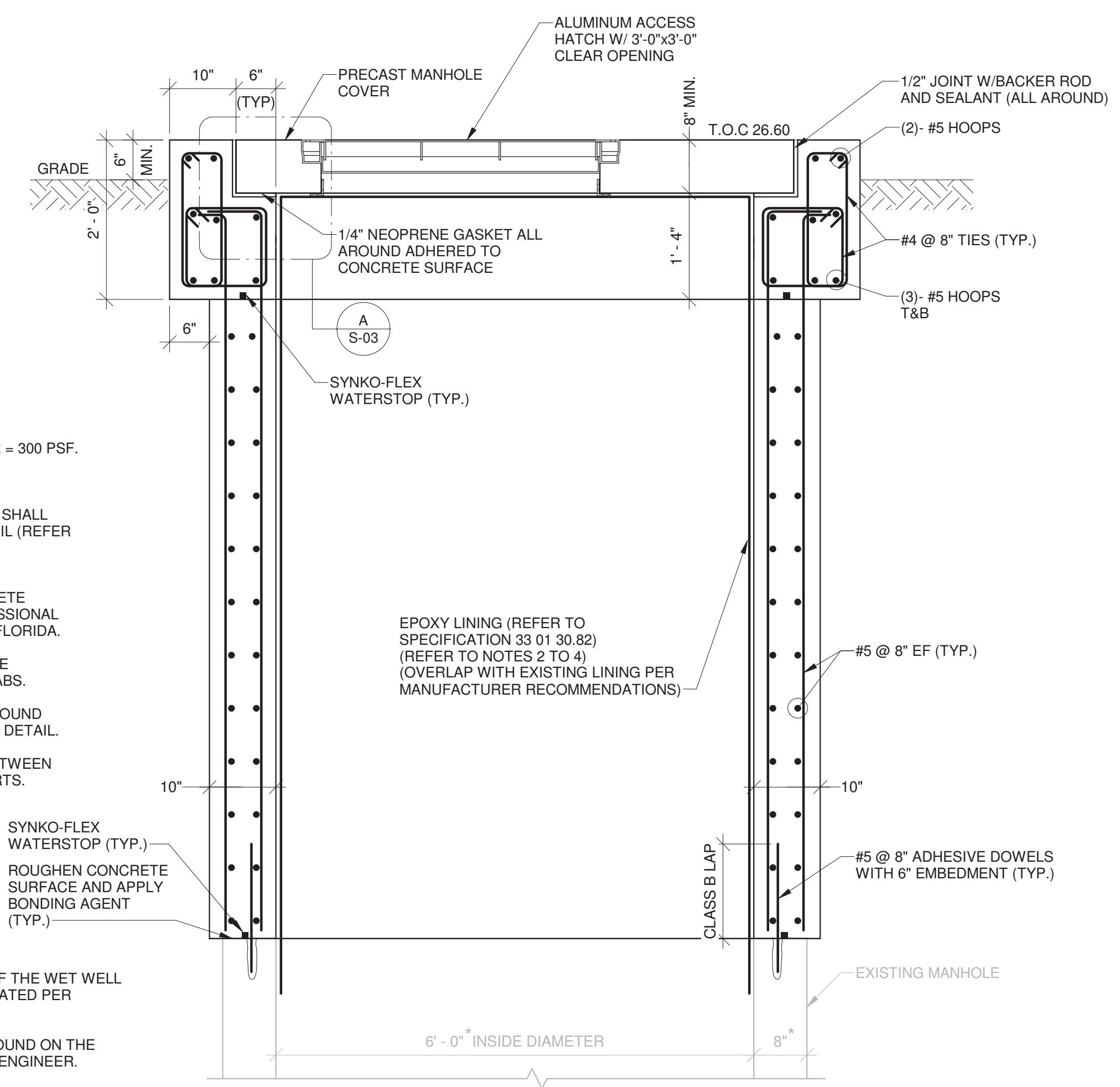
- NOTES:
1. DEMOLISH (SAW CUT) THE TOP 2'-0" OF THE EXISTING WET WELL (TOP SLAB AND WALL).
 2. CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE EXISTING LINER FROM ANY DAMAGE DURING AND AFTER DEMOLITION.



A DETAIL
S-03 SCALE: 1" = 1'-0"



1 SECTION
S-02 SCALE: 3/4" = 1'-0"

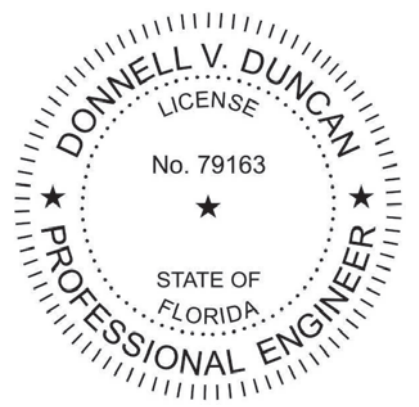


2 SECTION
S-02 SCALE: 3/4" = 1'-0"

- PRECAST CONCRETE COVER NOTES:
1. LIVE LOAD FOR PRECAST MANHOLE COVER = 300 PSF.
 2. LIVE LOAD FOR ACCESS HATCH = 300 PSF.
 3. CEMENT FOR PRECAST CONCRETE COVER SHALL CONFORM TO ASTM C150, TYPE II OR TYPE I/L (REFER TO SPECIFICATION 33 01 30.82)
 4. PROVIDE SHOP DRAWINGS AND DESIGN CALCULATIONS FOR THE PRECAST CONCRETE COVERS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.
 5. FILED VERIFY ALL THE DIMENSIONS BEFORE FABRICATION OF THE PRECAST COVER SLABS.
 6. PROVIDE ADDITIONAL REINFORCEMENT AROUND OPENINGS PER OPENING REINFORCEMENT DETAIL.
 7. PROVIDE ADDITIONAL REINFORCEMENT BETWEEN OPENINGS THAT EXTENDS TO THE SUPPORTS.

- NOTES:
1. ALL EXPOSED AND NEW INTERIOR CONCRETE OF THE WET WELL AND THE VORTEX DROP MANHOLE SHALL BE COATED PER SPECIFICATION SECTION 33 01 30.82.
 2. AFTER CLEANING THE MANHOLE IF A LINER IS FOUND ON THE INTERIOR SURFACE OF THE CONCRETE NOTIFY ENGINEER.
 3. FOR THE VORTEX DROP MANHOLE IF THERE IS NO EXISTING LINER, RECOAT THE COMPLETE MANHOLE PER SPECIFICATION SECTION 33 01 30.82.
 4. FOR BIDDING PURPOSES IT SHALL BE ASSUMED THAT THERE IS NO EXISTING LINER IN THE VORTEX MANHOLE.
 5. ISOLATE DISSIMILAR MATERIALS.

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DESIGNED BY: HOUSAM HOBI
DRAWN BY: VINOD NAIR
CHECKED BY: DONNELL DUNCAN

SHEET TITLE

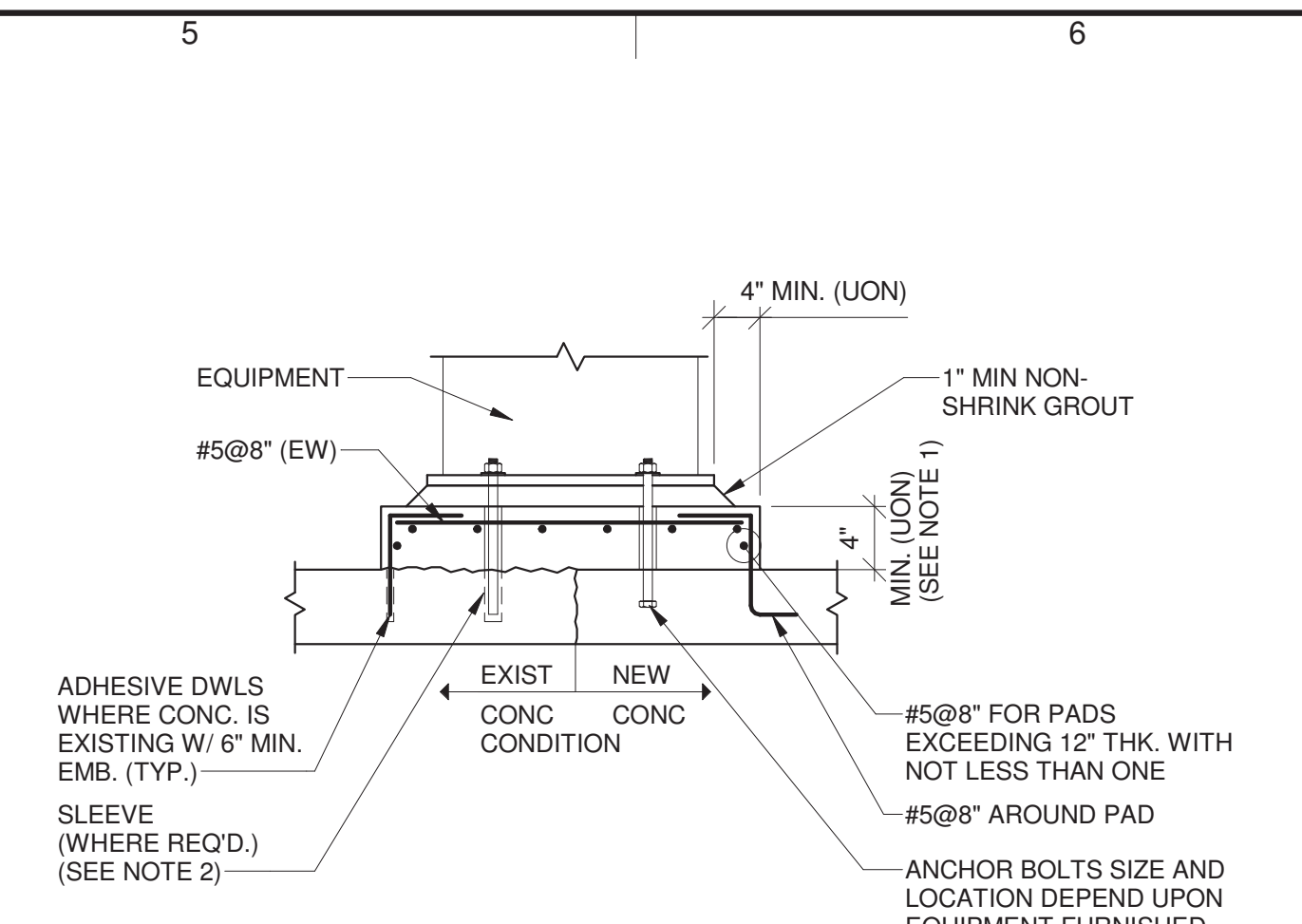
STRUCTURAL

TYPICAL DETAILS

SCALE: AS INDICATED

S-04

SHEET 41 OF 60

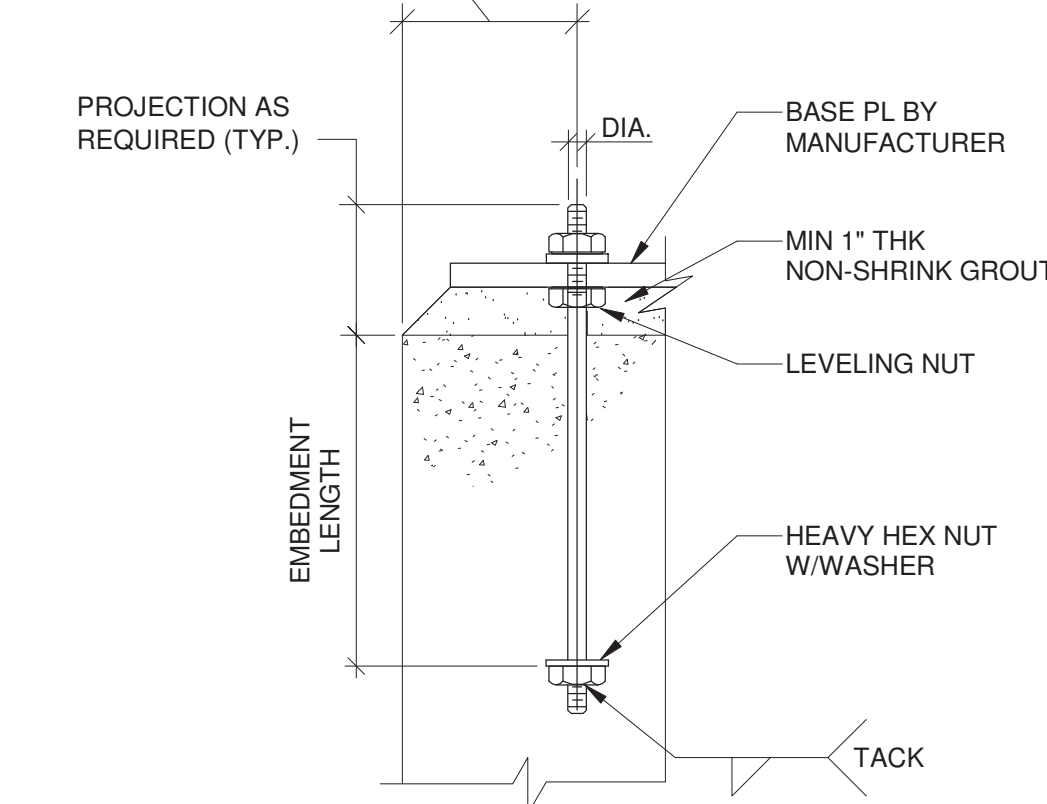


TYPICAL EQUIPMENT SUPPORT PAD DETAIL

NOT TO SCALE

- NOTES:
- COORDINATE LOCATION AND SIZE OF PADS WITH OTHER DRAWINGS AND MANUFACTURER'S CERTIFIED DRAWINGS.
 - FOR EXISTING SLABS, DRILL HOLE DIAMETER AND DEPTH IN EXISTING SLAB PER MANUFACTURER'S REQUIREMENTS FOR ADHESIVE ANCHORAGE SYSTEM USED.

COORDINATE SIZE OF PAD OR ANCHOR DESIGN WITH MINIMUM EDGE DISTANCE REQUIREMENTS OF APPROVED ANCHOR



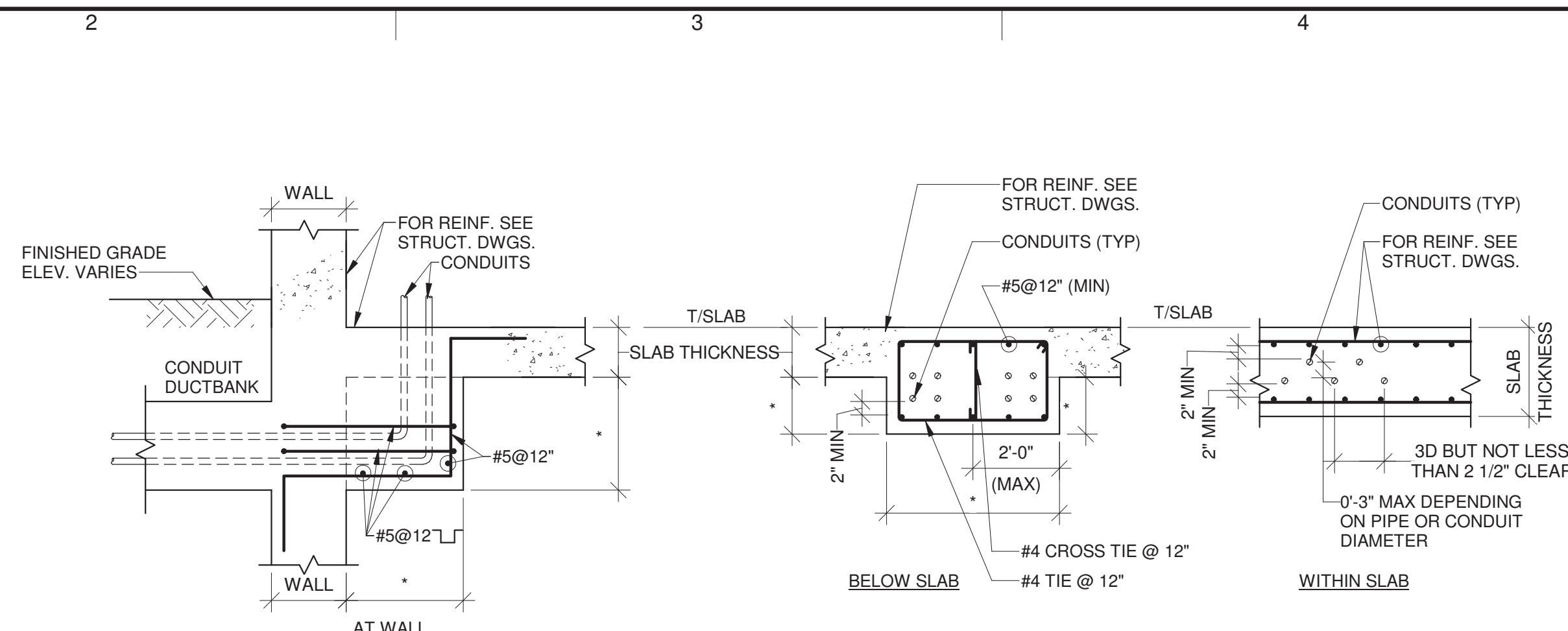
TYPICAL ANCHOR BOLT DETAIL

NOT TO SCALE

EMBEDMENT CHART

BOLT DIA. (IN.)	L (IN.) U.O.N	
	TYPE 316	ASTM F593
1/2	6	
5/8	7 1/2	
3/4	9	
7/8	10 1/2	
1	12	
1 1/8	13 1/2	
1 1/4	15	
1 3/8	16 1/2	
1 1/2	18	

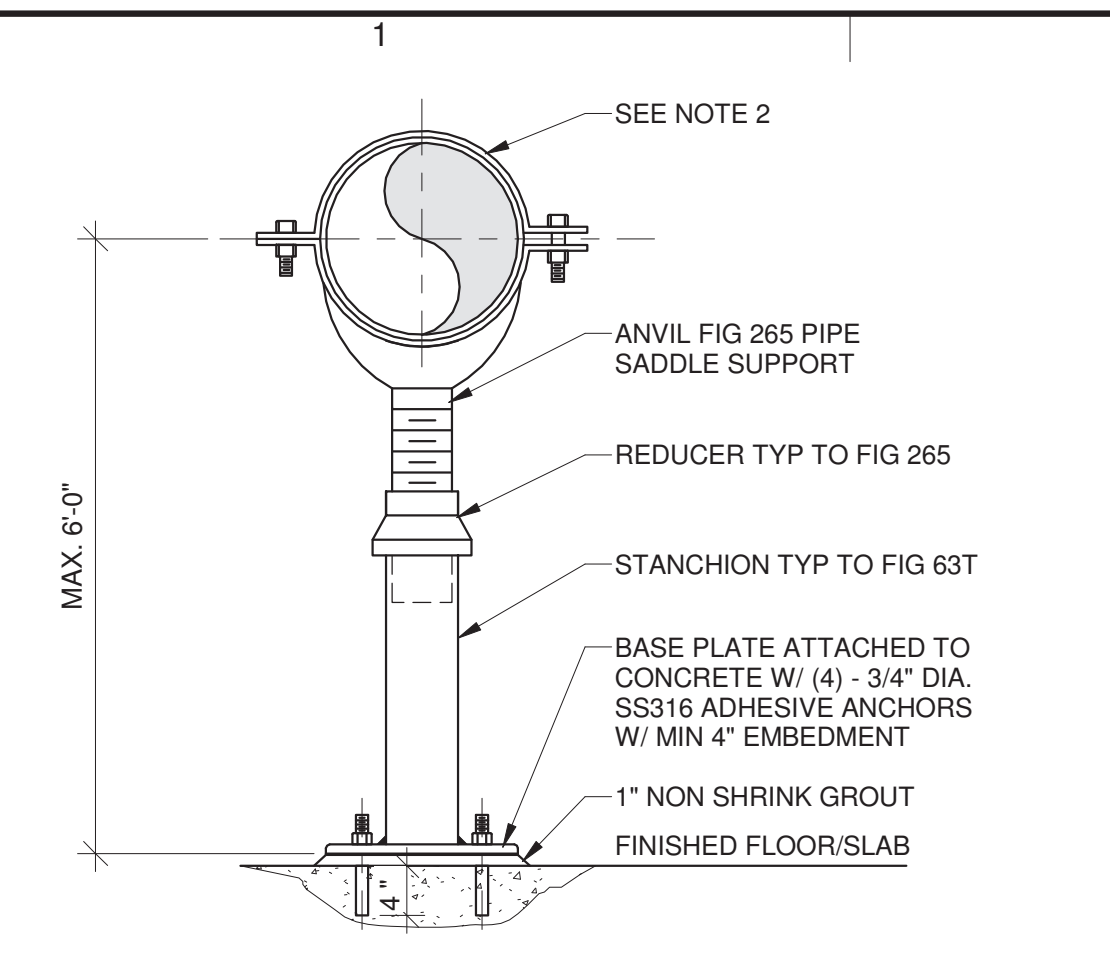
- NOTE:
- REFER TO SPECIFICATIONS AND CONTRACT DRAWING DETAILS FOR ANCHOR BOLT EQUIPMENT. ANCHOR BOLT DIAMETER AND EMBEDMENT SHALL BE AS SHOWN OR AS REQUIRED BY EQUIPMENT MANUFACTURER.



TYPICAL CONDUIT ENCASMENT DETAILS

NOT TO SCALE

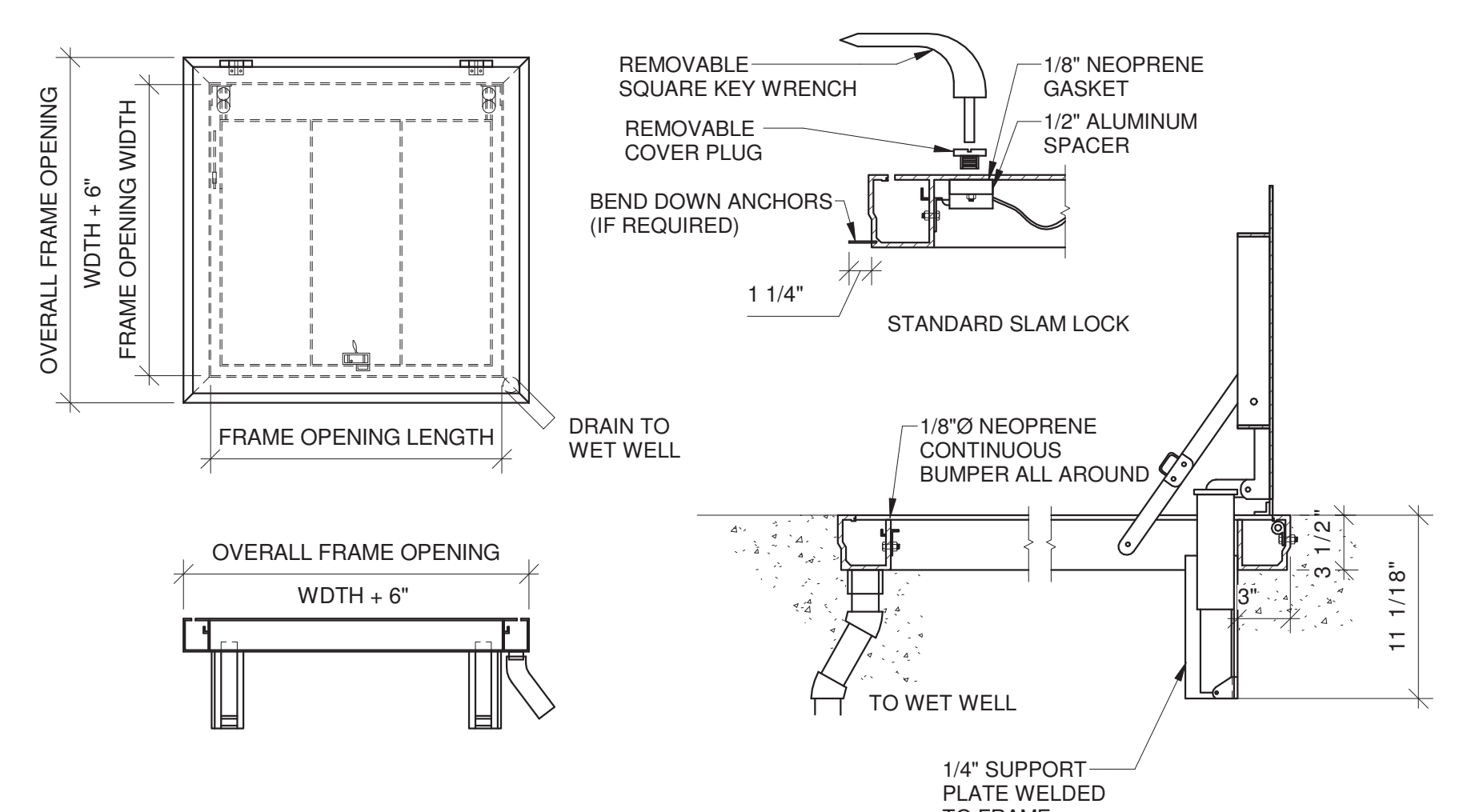
- NOTES:
- * INDICATES DIMENSION AS REQUIRED FOR APPROVED EQUIPMENT.
 - D = PIPE OR CONDUIT OUTSIDE DIAMETER.
 - OUTSIDE DIMENSION (D) OF ANY EMBEDDED ITEM SHOULD NOT EXCEED 1/3 THE CONCRETE MEMBER THICKNESS.
 - AT POINTS OF CROSSING CONDUITS / PIPES, OUTSIDE DIMENSION (D) SHALL BE THE SUM OF THE TOTAL INDIVIDUAL CROSSING ITEMS.
 - SPACING REQUIREMENTS BETWEEN CONDUITS / PIPES APPLIES TO CONDUITS / PIPES CROSSING AT 60° OR LESS. PIPES / CONDUITS CROSSING EACH OTHER GREATER THAN 60° CAN BE IN CONTACT WITH EACH OTHER (CODE PERMITTING).



ADJUSTABLE PIPE SUPPORTS

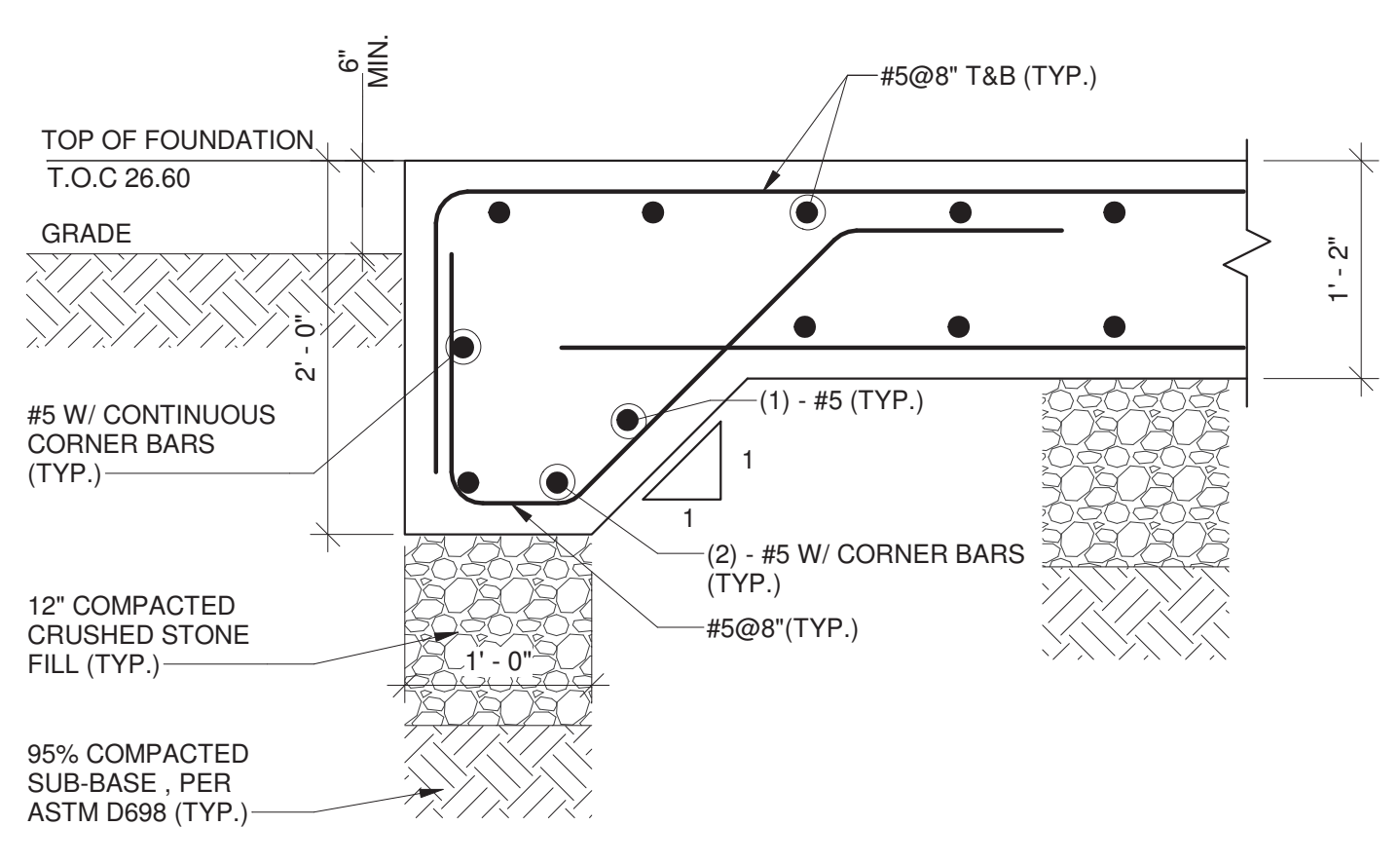
NOT TO SCALE

- NOTES:
- MAXIMUM ALLOWABLE VERTICAL LOAD: 1,500 LBS.
 - FOR PIPE SUPPORT BRACKETS FOR SYSTEMS WEIGHING GREATER THAN 1,500 LBS THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS AND CALCULATIONS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.
 - PROVIDE 3"x1/8" NEOPRENE PAD BONDED TO PIPE.
 - PIPE SUPPORT TO BE SS316.
 - MAX. SUPPORT SPACING 8'-0".



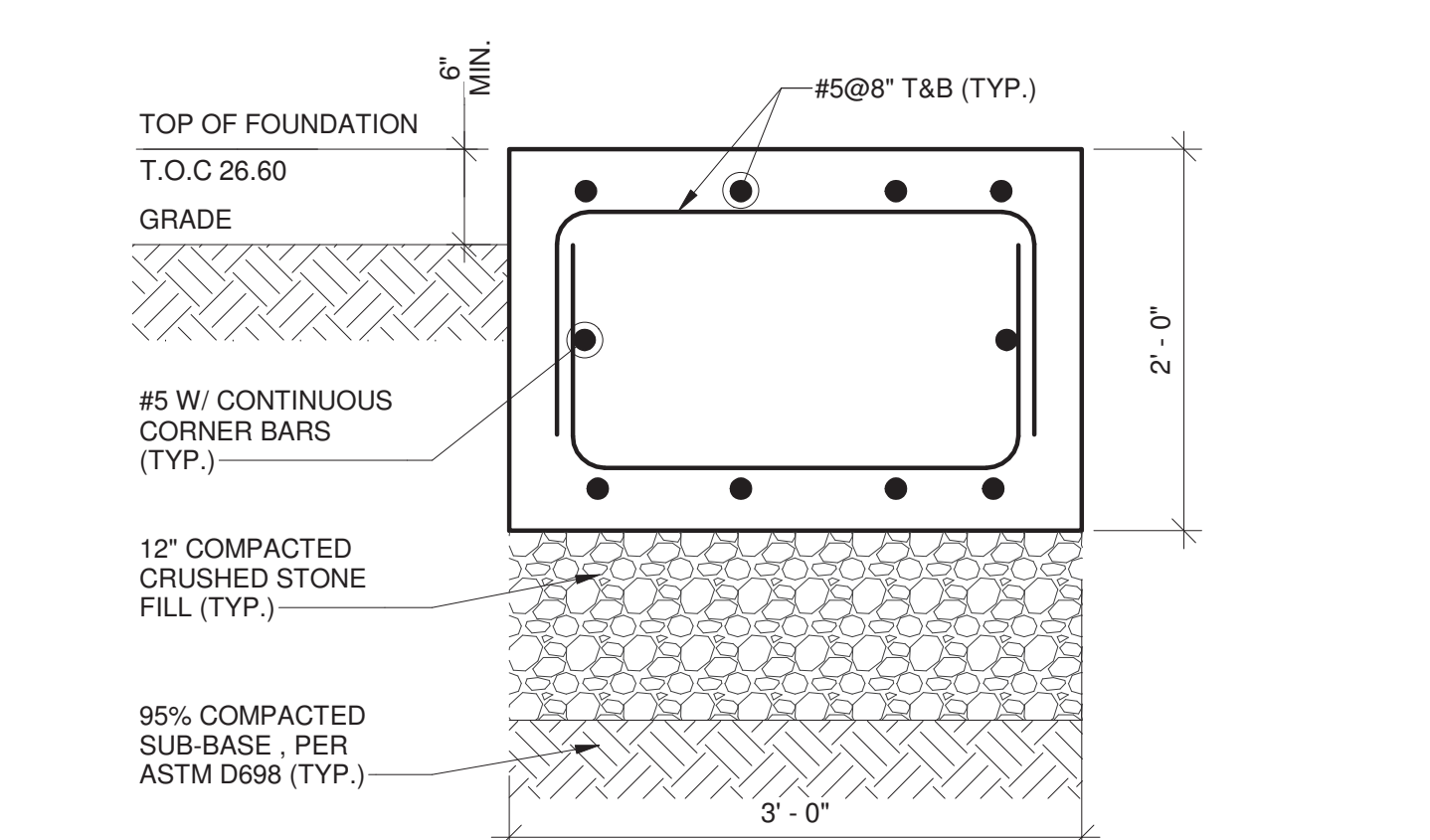
ACCESS HATCH DETAIL

SCALE: 1/2" = 1'-0"



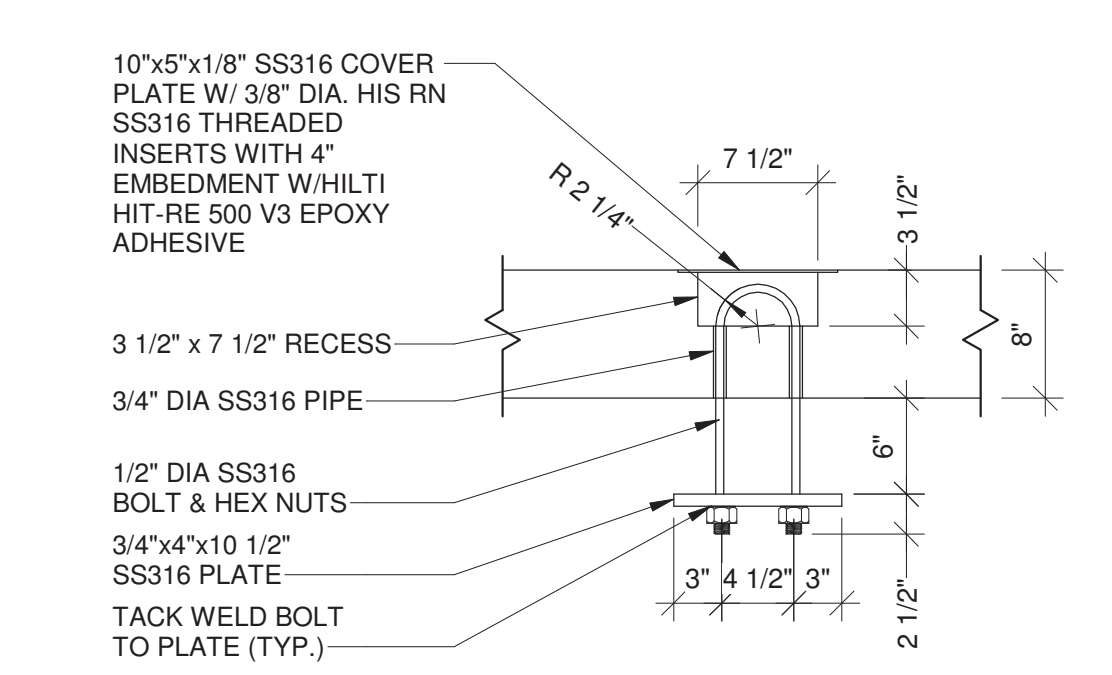
SECTION 1

S-02 SCALE: 1" = 1'-0"



SECTION 2

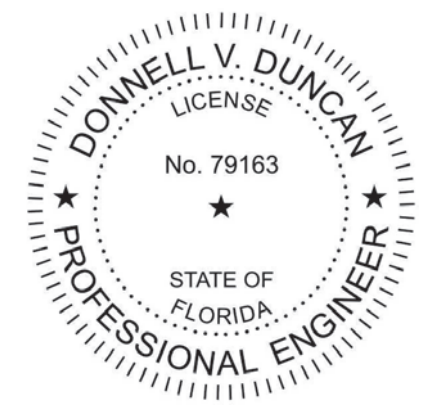
S-02 SCALE: 1" = 1'-0"



LIFTING BOLT DETAIL

SCALE: 1" = 1'-0"

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PROJECT NO.:	30036073
FILE NAME:	S-3D-SS_R21
DESIGNED BY:	HOUSAM HOBI
DRAWN BY:	VINOD NAIR
CHECKED BY:	DONNELL DUNCAN

SHEET TITLE

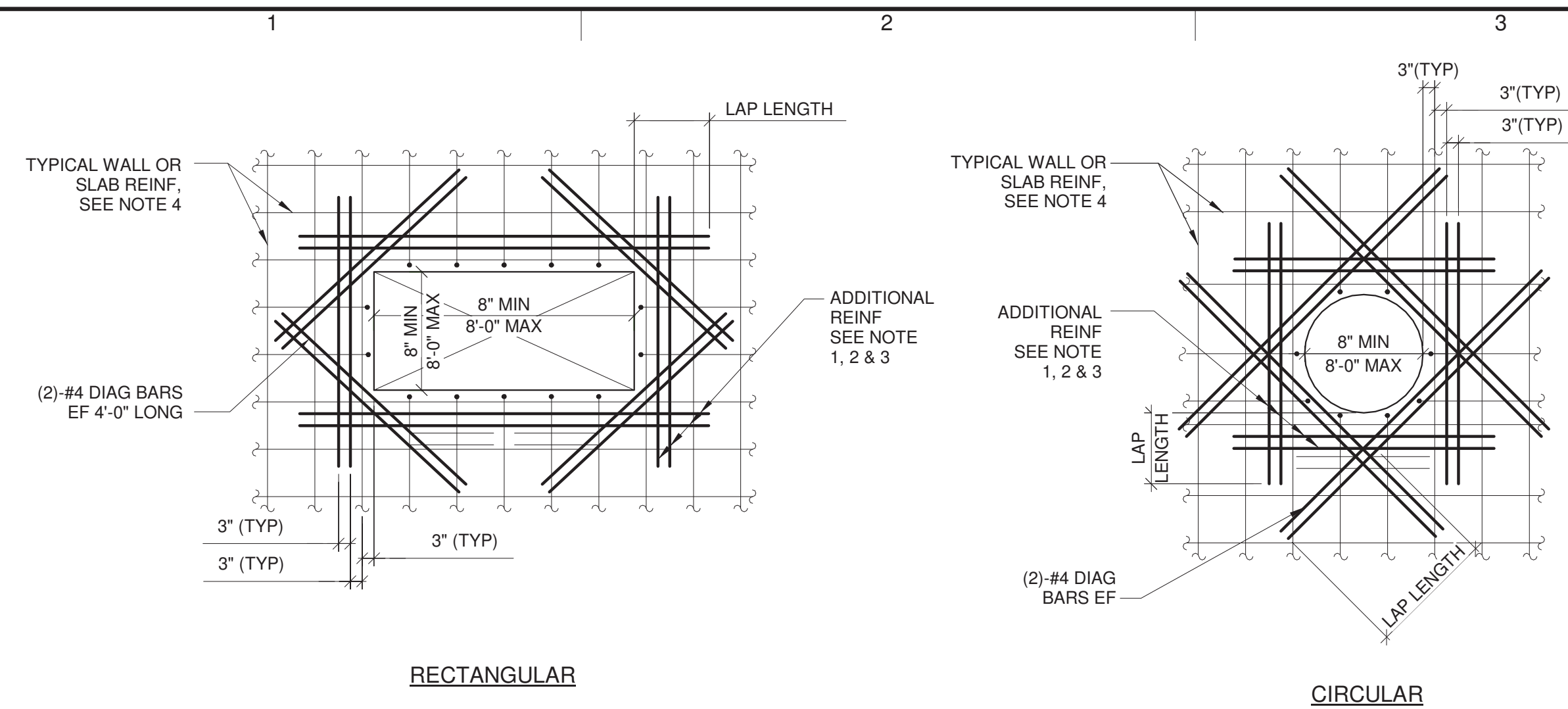
STRUCTURAL

TYPICAL DETAILS

SCALE: NOT TO SCALE

S-05

SHEET 42 OF 60

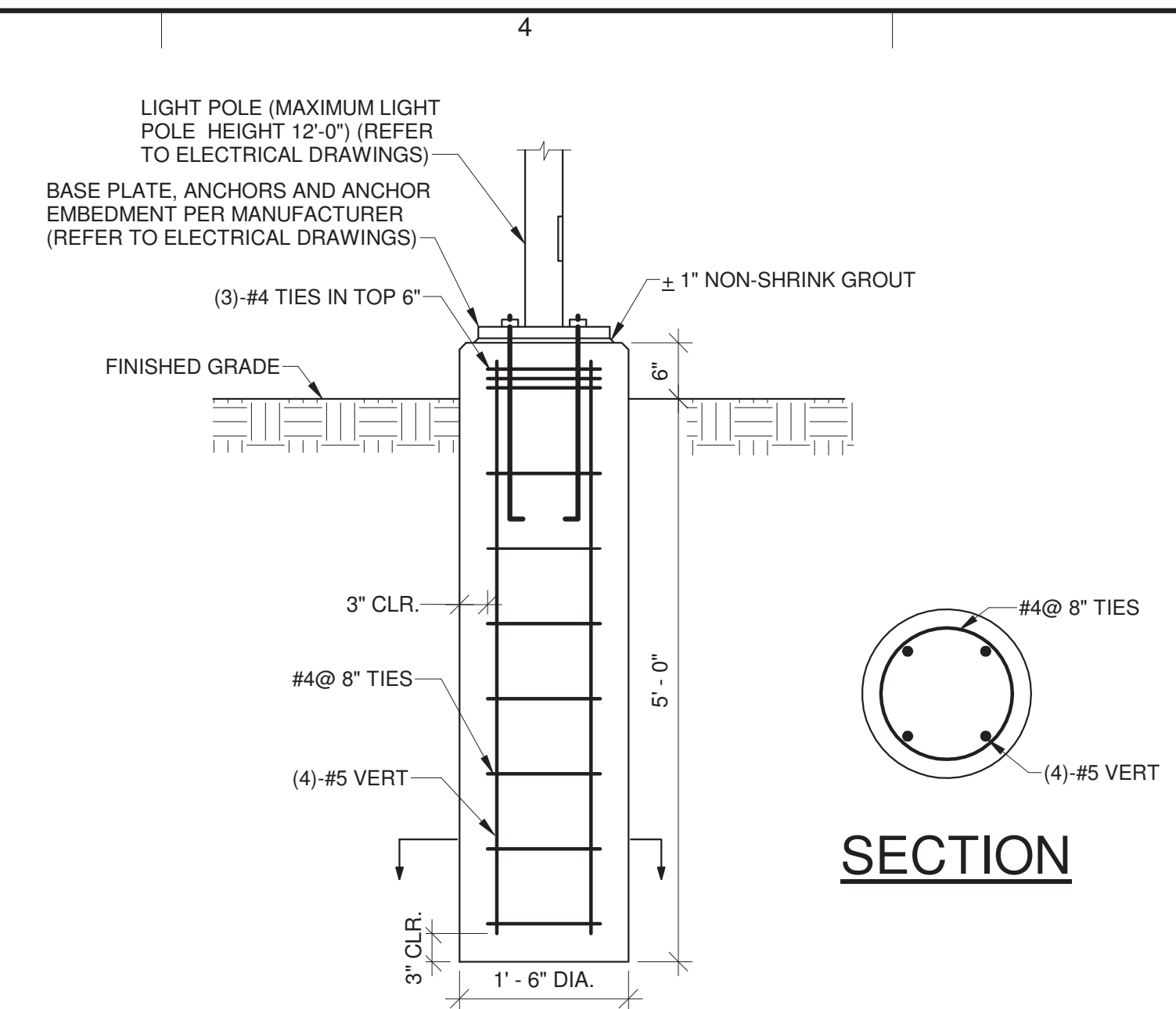


TYPICAL REINFORCING AROUND OPENING IN WALL AND SLAB

SCALE: NOT TO SCALE

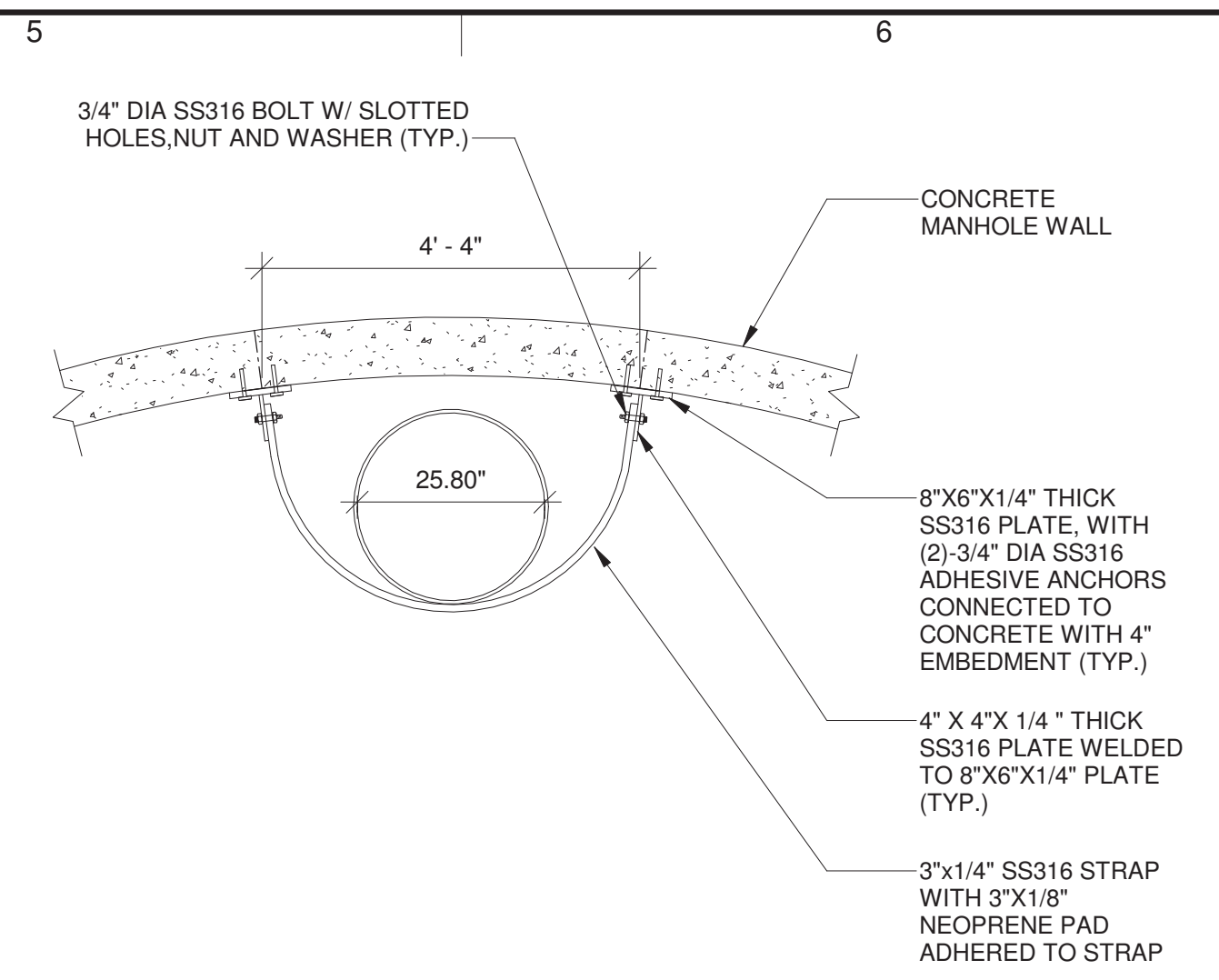
NOTES:

1. PROVIDE ADDITIONAL REINFORCEMENT AT EACH SIDE OF ALL OPENINGS, ACCESS HATCHES, PIPE PENETRATIONS, ETC. EQUAL IN AREA TO 1/2 OR MORE THE AREA OF REINFORCEMENT CUT BY OPENING IN EACH DIRECTION. ADDITIONAL REINFORCEMENT TO MATCH SIZE OF TYPICAL REINFORCEMENT (MIN. 2 BARS ES AND EF) AND PLACED BETWEEN TYPICAL REINFORCEMENT @3" SPACING ON EACH SIDE OF OPENING. IF A WALL OR BEAM IS ADJACENT TO THE OPENING, THE ADDITIONAL REINFORCEMENT ON THAT SIDE OF THE OPENING CAN BE OMITTED.
2. ANY OPENING 6" OR LESS TO AN ADJACENT WALL DOES NOT REQUIRE ADDITIONAL REINFORCEMENT AT THAT SIDE OF OPENING.
3. PROVIDE MATCHING DOWELS WHERE REQUIRED TO PROVIDE CLASS "B" LAP WITH ADDITIONAL REINFORCEMENT. (WHERE LAPPING OF ADDITIONAL REINFORCEMENT FROM ADJACENT OPENINGS OCCUR, ADDITIONAL REINFORCEMENT SHALL BE COMBINED).
4. PROVIDE STANDARD HOOK AT END OF ALL BARS TERMINATING AT OPENING.
5. DO NOT WELD REINFORCEMENT TO PIPE SLEEVES OR INSERTS.



LIGHT POLE FOUNDATION DETAIL

SCALE: NOT TO SCALE

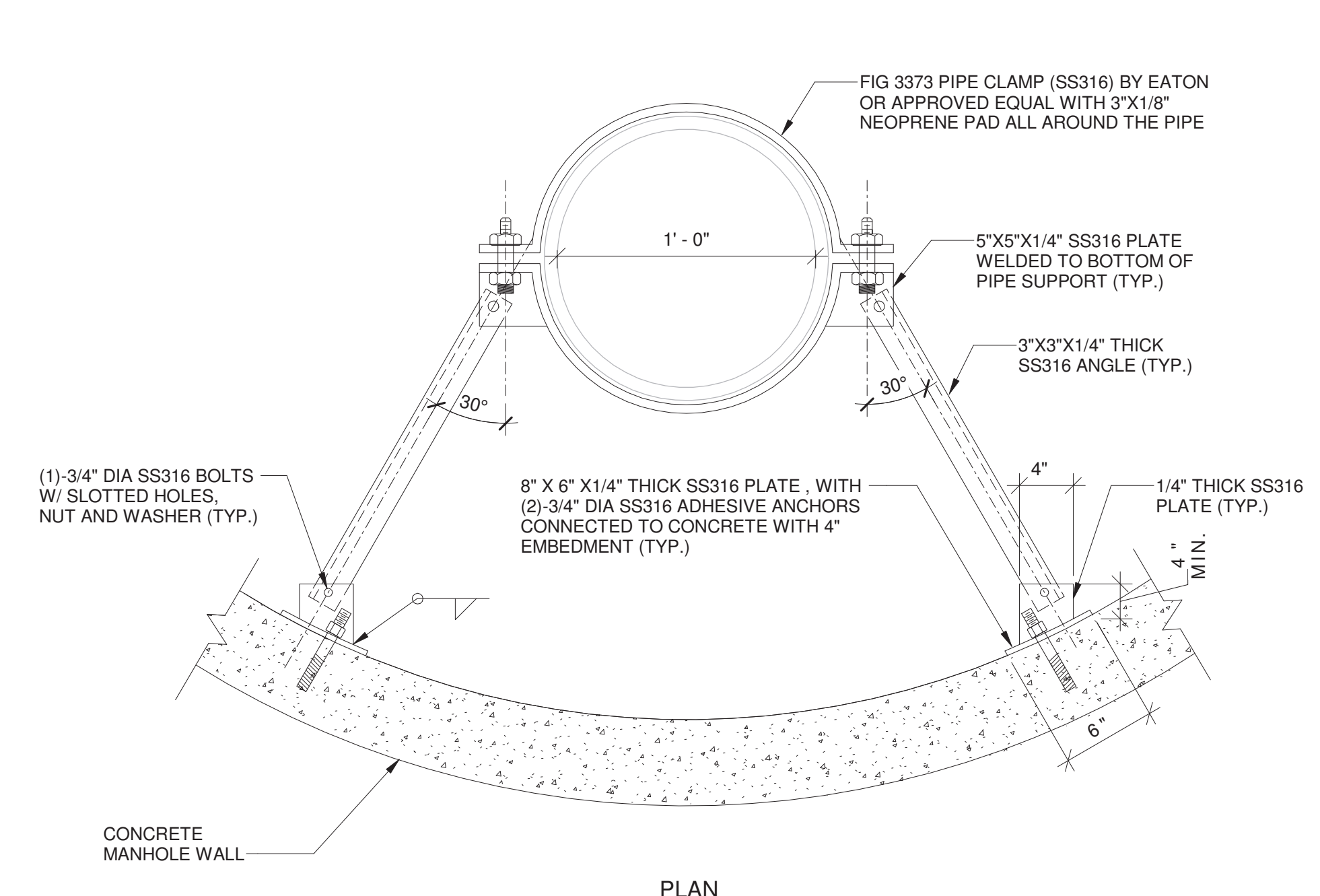


TYPICAL STRAP DETAIL FOR VORTEX FLOW INSERT HEAD

SCALE: NOT TO SCALE

NOTES:

1. REFER TO SPECIFICATION SECTION 33 05 13 FOR DIMENSION OF THE VORTEX FLOW INSERT.
2. PROVIDE MINIMUM TWO STRAPS TO THE VORTEX DROP HEAD.

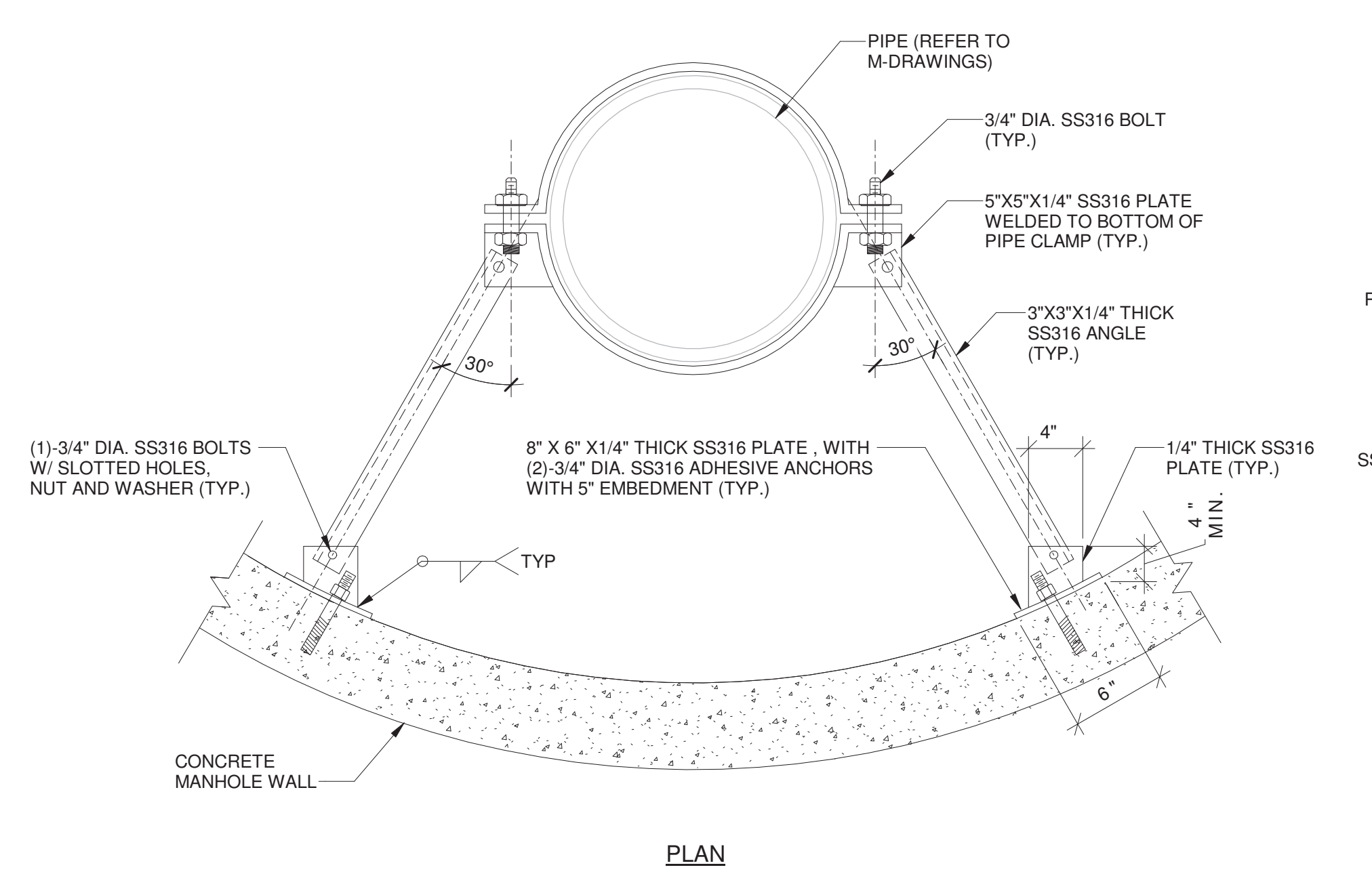


TYPICAL LATERAL PIPE SUPPORT DETAIL FOR VORTEX FLOW INSERT PIPE

SCALE: NOT TO SCALE

NOTES:

1. REFER TO SPECIFICATION SECTION 33 05 13 FOR DIMENSION OF THE VORTEX FLOW INSERT.
2. PROVIDE MINIMUM THREE SUPPORTS EQUALLY SPACED TO THE VORTEX DROP PIPE (ONE NEAR EACH COUPLING).

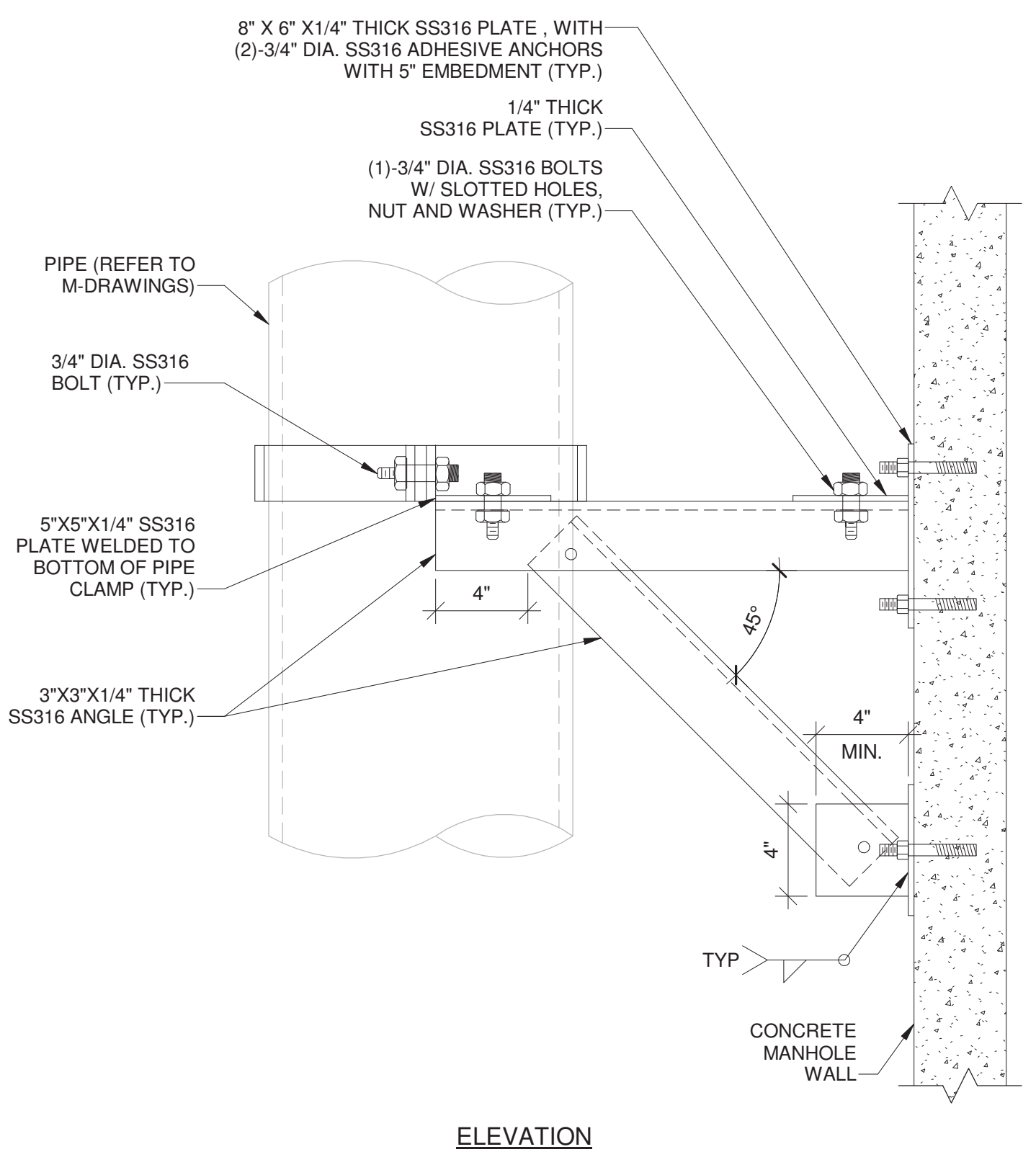


TYPICAL PIPE SUPPORT DETAIL

SCALE: NOT TO SCALE

NOTES:

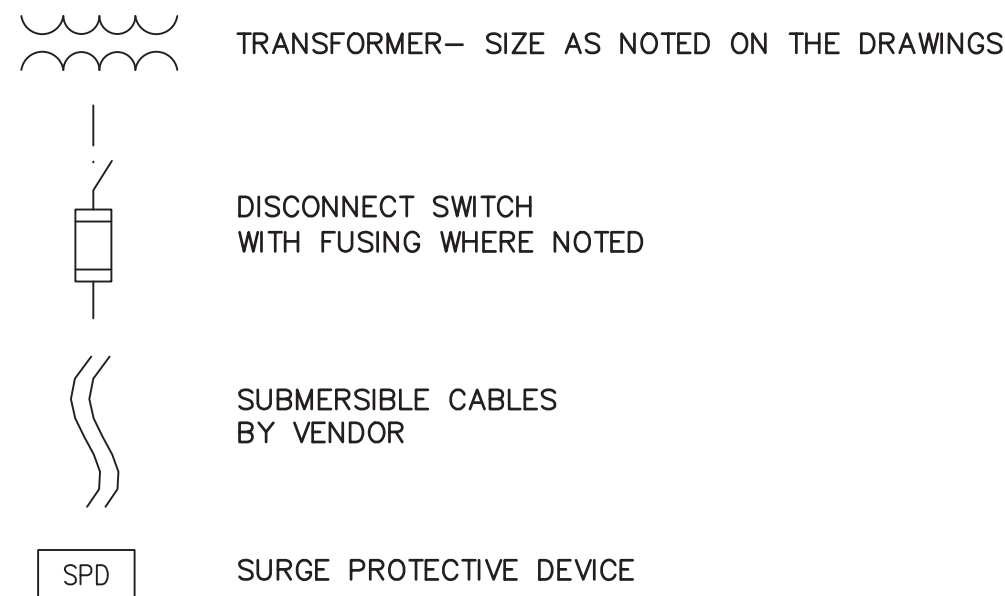
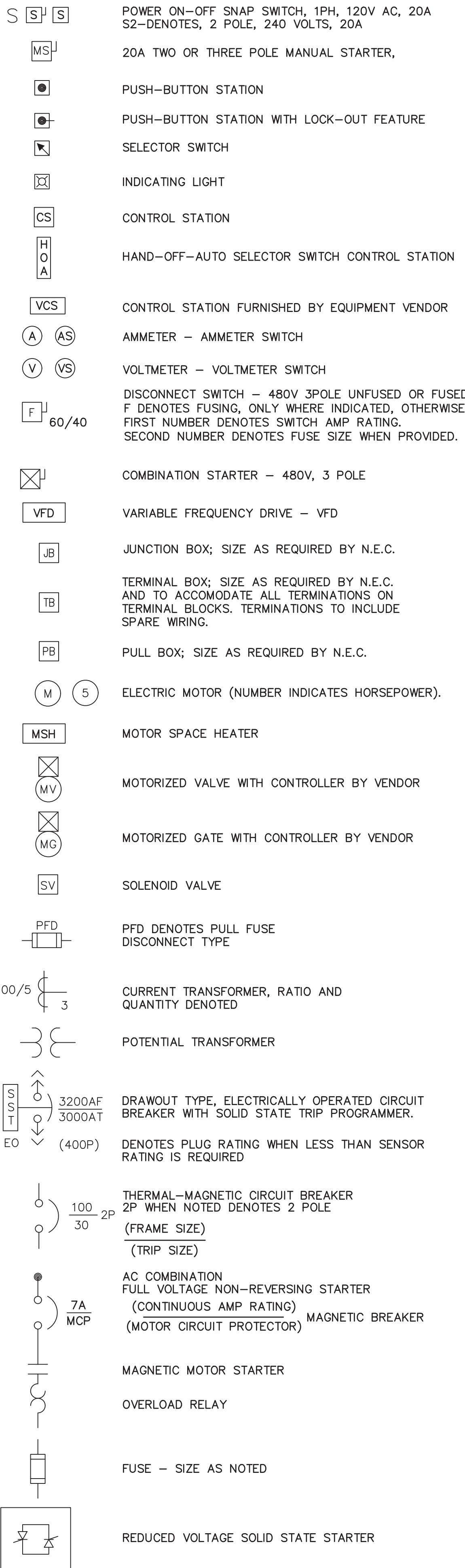
1. REFERENCE MECH. DRAWINGS FOR PIPE SIZE AND LOCATION.
2. FIELD VERIFY THE DISTANCE BETWEEN THE PIPE AND WALL BEFORE FABRICATION.



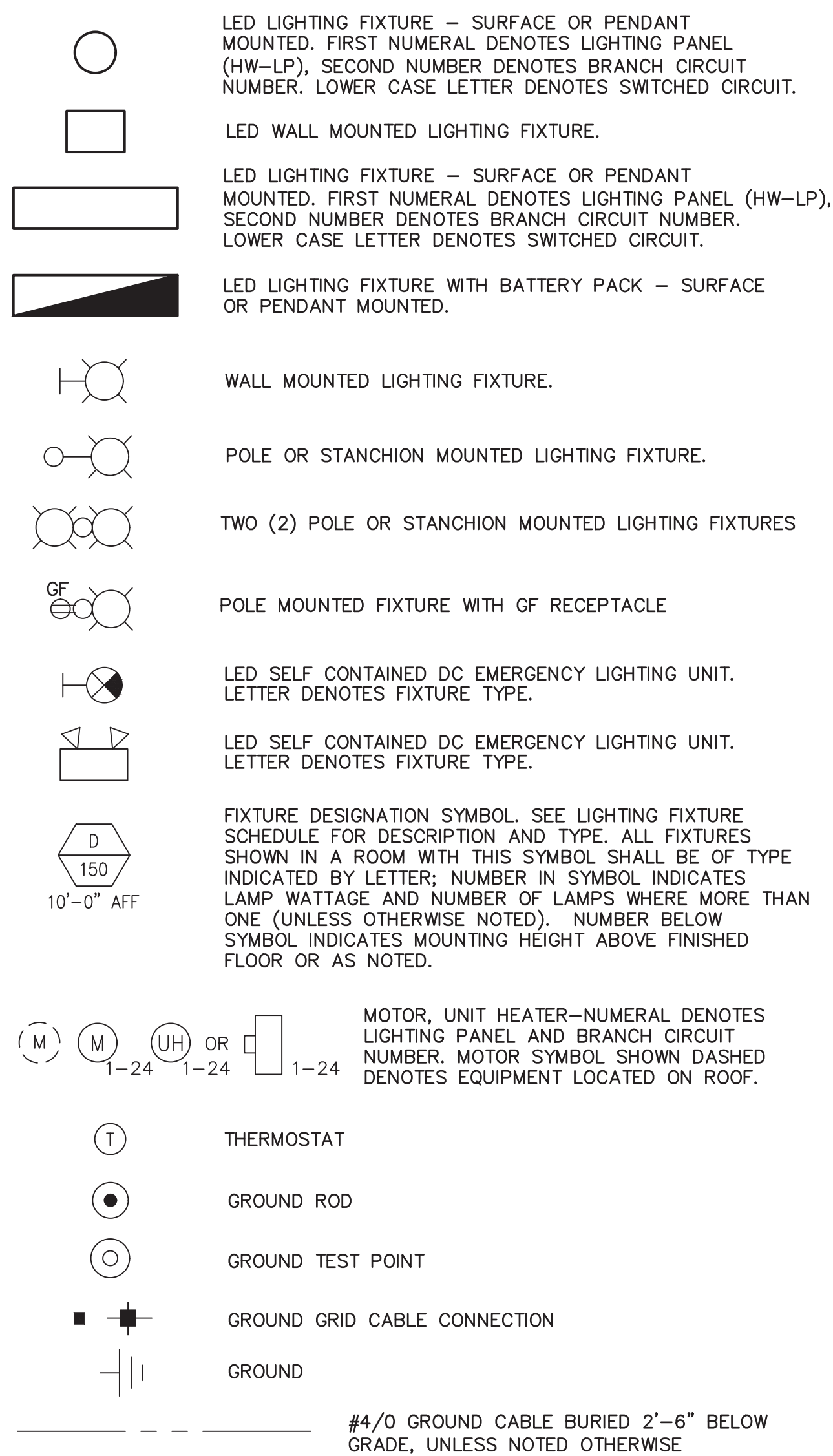
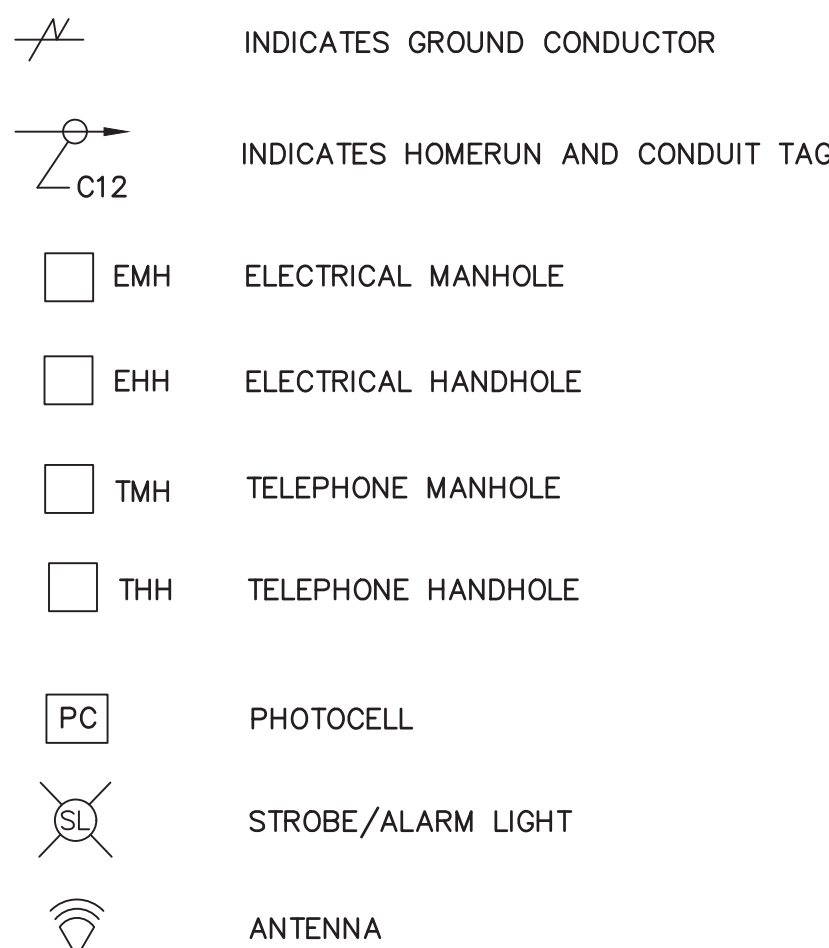
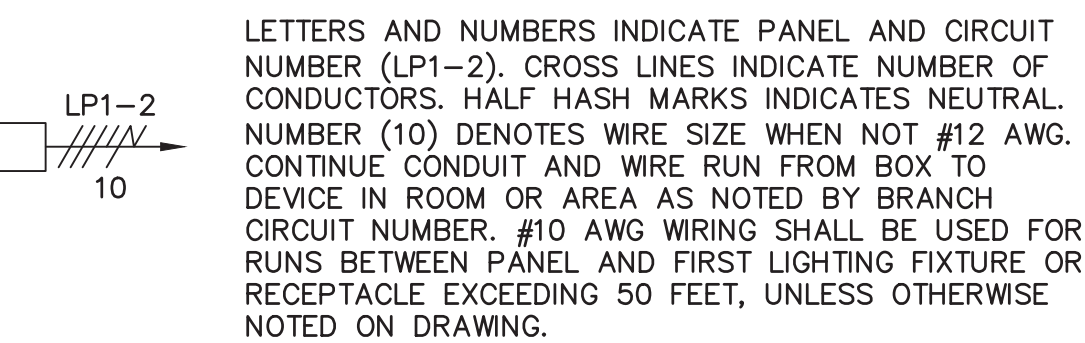
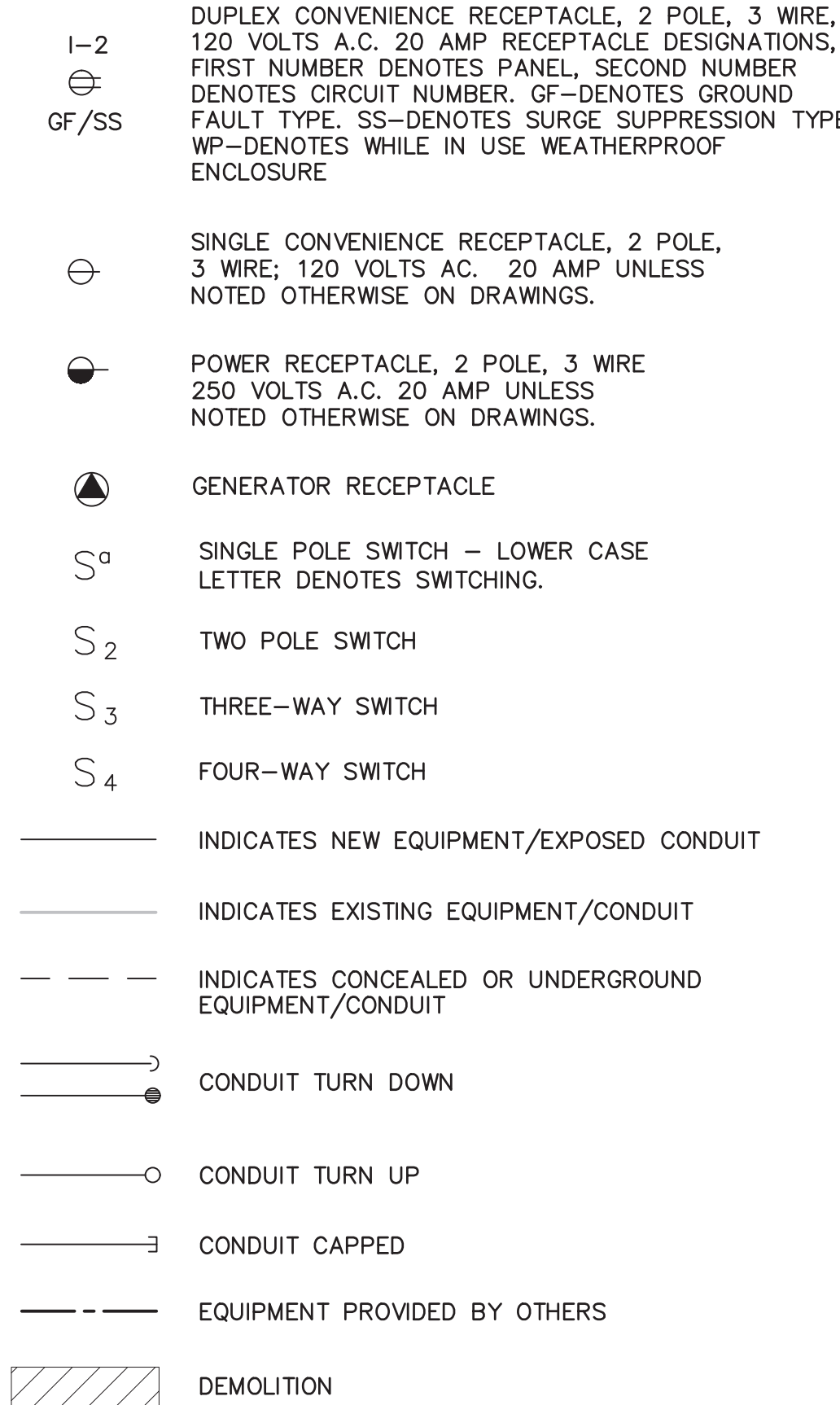
ELEVATION

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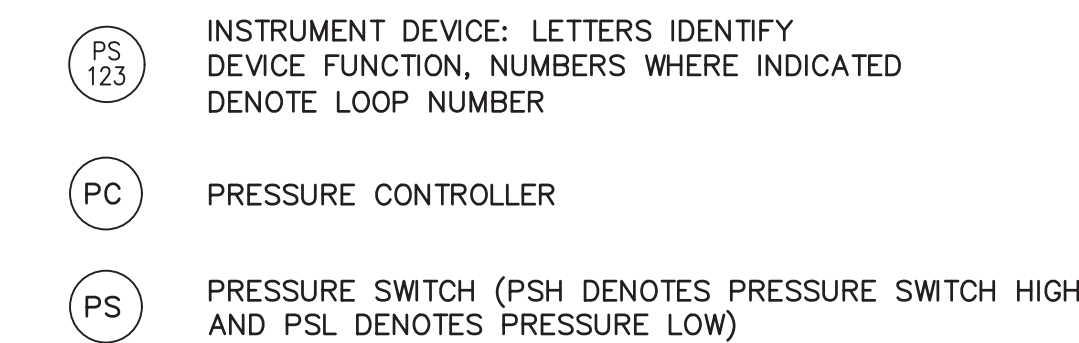
DIAGRAMS:



PLANS:



INSTRUMENTS:



DEMOLITION NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE FOR DE-ENERGIZING ALL EQUIPMENT SHOWN AS DEMOLITION PRIOR TO DEMOLISH.
- WIRING COORDINATION SHALL CREATE POINT-TO-POINT CONNECTION WIRING DIAGRAMS FOR EACH EXISTING PLC PANEL PRIOR TO DEMOLITION. SEE SPECIFICATION SECTION 16050 FOR WIRING COORDINATOR REQUIREMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR DISCONNECTING, PROTECTING, RE-TERMINATING AND TESTING BOTH WIRING AND CONNECTIONS TO EACH NEW PLC PANEL. REFER TO RECORD DRAWINGS AND INSTRUMENTATION DRAWINGS FOR MORE INFO.
- CONTRACTOR SHALL REMOVE ALL ASSOCIATED WIRING AND EXPOSED CONDUIT/FLEXIBLE CONDUIT SHOWN FOR DEMOLITION, UON. ALL EXISTING UNDERGROUND CONDUIT SHALL BE REUSED WHERE FEASIBLE.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING CONSTRUCTION THAT IS TO REMAIN.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN CIRCUIT CONTINUITY TO ALL DEVICES AND EQUIPMENT THAT ARE TO REMAIN. THIS INCLUDES ANY EXTENSION OR RE-ROUTING OF EXISTING CIRCUITING AFFECTED BY DEMOLITION. NO EQUIPMENT MARKED FOR DEMOLITION SHALL BE DAMAGED OR DISCARDED WITHOUT PREVIOUS COORDINATION WITH AND APPROVAL BY THE OWNER.
- REMOVE ALL WIRING, CONDUIT, OUTLET BOXES, SUPPORTS AND FASTENERS AS NECESSARY TO AVOID ANY CONFLICTS WITH THE NEW INSTALLATION.

ABBREVIATIONS:

A	AMPERES	KVA	THOUSAND VOLT AMPERES
ABI	ALTERNATE BID ITEM	KW	KILOWATTS
AC	ALTERNATING CURRENT	LA	LIGHTNING ARRESTOR
AFF	ABOVE FINISHED FLOOR	LCP	LOCAL CONTROL PANEL
AFG	ABOVE FINISHED GRADE	LS	LEVEL SWITCH
AHU	AIR HANDLING UNIT	LOS	LOCK-OUT-STOP
AL	ALUMINUM	LTG	LIGHTING
ATS	AUTOMATIC TRANSFER SWITCH	M	MOTOR
AWG	AMERICAN WIRE GAUGE	MCC	MOTOR CONTROL CENTER
BKR	BREAKER	MCP	MOTOR CIRCUIT PROTECTOR
BLDG	BUILDING	MFR	MANUFACTURER
C, CND	CONDUIT	MIN	MINIMUM
CB	CIRCUIT BREAKER	MTG	MOUNTING
CBV	CABLE BY VENDOR, INSTALLED BY CONTRACTOR	MTS	MANUAL TRANSFER SWITCH
CKT	CIRCUIT	NA	NON-AUTOMATIC
CNTRL	CONTROL	N/A	NOT APPLICABLE
CP	CONTROL PANEL	NCTC	NORMALLY CLOSED, TIME CLOSE
CPT	CONTROL POWER TRANSFORMER	NCTO	NORMALLY OPEN, TIME OPEN
CS	CONTROL STATION	NEC	NATIONAL ELECTRIC CODE
CT	CURRENT TRANSFORMER	NIC	NOT IN CONTRACT
DB	DECIBEL	NTS	NOT TO SCALE
DC	DIRECT CURRENT	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
DN	DOWN	OL	OVERLOAD RELAY
DISC	DISCONNECT	PB	PULL BOX
DPDT	DOUBLE POLE DOUBLE THROW	POU	POWER DISTRIBUTION UNIT
DS	DISCONNECT SWITCH	PFC	POWER FACTOR CORRECTION CAPACITORS
EC	EMPTY CONDUIT	PFD	PULL FUSE DISCONNECT
EHH	ELECTRICAL HANDHOLE	PLC	PROGRAMMABLE LOGIC CONTROLLER
EL, ELEV	ELEVATION	PNL	PANEL
EMH	ELECTRICAL MANHOLE	PT	POTENTIAL TRANSFORMER
EMT	ELECTRICAL METALLIC TUBING	PVC	POLYVINYL CHLORIDE
EP	EXPLOSION PROOF	RECEP	RECEPTACLE
EXIST	EXISTING	RGS	RIGID GALVANIZED STEEL
FACP	FIRE ALARM CONTROL PANEL	SL	SECTION LENGTH
FDR	FEEDER	SP	SPARE
FEXC	FIRE EXTINGUISHER CABINET	SPD	SURGE PROTECTION DEVICE
FIXT	FIXTURE	SST	STAINLESS STEEL
FT	FEET OR FOOT	SW	SWITCH
FVNR	FULL VOLTAGE NON-REVERSING	SWB,SWBD	SWITCHBOARD
GALV	GALVANIZED	SWGR	SWITCHGEAR
GEC	GROUNDING ELECTRODE CONDUCTOR	TB-P	TERMINAL BOX FOR POWER WIRES
G, GND	GROUND	TB-S	TERMINAL BOX FOR COMMUNICATION WIRES
GFI	GROUND FAULT INTERRUPTOR	TEW	THERMOCOUPLE EXTENSION WIRE
HH	HAND HOLE	TPS	TWISTED PAIR, SHIELDED
HOA	HAND/OFF/AUTO	TYP	TYPICAL
HZ	HERTZ	UG	UNDERGROUND
ISO	ISOLATION	UON	UNLESS OTHERWISE NOTED
JB	JUNCTION BOX, CONDUIT, FITTING AS REQUIRED BY NEC, UNLESS OTHERWISE NOTED	UPS	UNINTERRUPTIBLE POWER SUPPLY
KAIC	THOUSAND AMPERES INTERRUPTING CURRENT	V	VOLTS
KCMIL	THOUSAND CIRCULAR MILS	VAC	VOLTS ALTERNATING CURRENT
		VFD	VARIABLE FREQUENCY DRIVE
		WP	WEATHERPROOF
		XFMR	TRANSFORMER

GENERAL NOTES:

- THE SYMBOLS AND ABBREVIATIONS LIST ON THIS SHEET IS A COMPREHENSIVE STANDARD GUIDE INTENDED FOR GENERAL USE ON ALL PROJECTS. THEREFORE NOT ALL THE SYMBOLS AND ABBREVIATIONS CONTAINED IN THIS LIST ARE NECESSARILY USED ON THIS PARTICULAR PROJECT AND SHOULD BE USED FOR CLARIFICATION ONLY.
- THE CONTRACTOR SHALL READ AND UNDERSTAND THE ENTIRE SET OF CONSTRUCTION DOCUMENTS. THIS INCLUDES BUT IS NOT LIMITED TO THE PLANS AND SPECIFICATIONS FOR ALL DISCIPLINES. THIS WILL ENSURE THAT HE UNDERSTANDS THE FULL SCOPE OF WORK AND IS ABLE TO CONVEY THE REQUIRED MATERIALS AND METHODS OF INSTALLATION TO THE ESTIMATORS, SUPPLIERS AND INSTALLERS.
- THE CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS.
- PROVIDE MEANS TO FURNISH AND INSTALL.
- COORDINATE ANY AND ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION IN ORDER TO AVOID CONFLICTS DURING CONSTRUCTION.
- THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE. DO NOT SCALE FROM THESE DRAWINGS.
- WHERE JOB CONDITIONS REQUIRE CHANGES FROM THE CONTRACT DOCUMENTS THAT DO NOT CHANGE THE SCOPE OF INSTALLATION OR NATURE OF THE WORK REQUIRED, THE CONTRACTOR SHALL MAKE SUCH CHANGES WITHOUT ANY ADDITIONAL COST TO THE OWNER. NO OTHER CHANGES MAY BE MADE WITHOUT WRITTEN CONSENT FROM THE ENGINEER AND OWNER.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE ENFORCED EDITION OF THE NATIONAL ELECTRIC CODE, NATIONAL ELECTRIC SAFETY CODE, LIFE SAFETY CODE, FLORIDA BUILDING CODE AND ALL LOCAL AND STATE CODES AND REGULATIONS. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
- MOUNTING HEIGHTS INDICATED ARE TO THE CENTER OF THE DEVICE U.O.N.
- PROVIDE ALL ABOVEGROUND CONDUIT HUBS WITH SEALS.
- PROVIDED BY OTHERS AS PART OF PACKAGED EDR SYSTEM

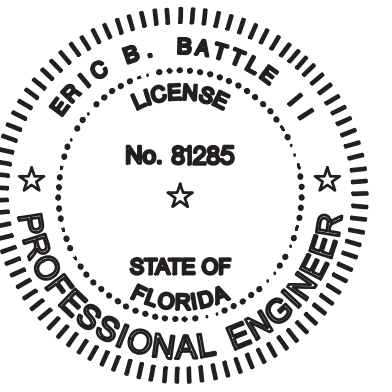


CONSULTANTS



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SARASOTA COUNTY, FLORIDA
SARASOTA COUNTY
PUBLIC UTILITIES
DEPARTMENT

HOME DEPOT MPS
AND FM

100% BID SUBMITTAL

1	DEC 2025	100% BID PLANS	EB
NO.	DATE	ISSUED FOR	BY

COPYRIGHT: ARCADIS U.S., INC. 2024

DATE: DECEMBER 2025
PROJECT NO.: 30036073
FILE NAME: E-01
DESIGNED BY: ERIC BATTLE
DRAWN BY: VAN NGUYEN
CHECKED BY: ERIC BATTLE

SHEET TITLE
ELECTRICAL

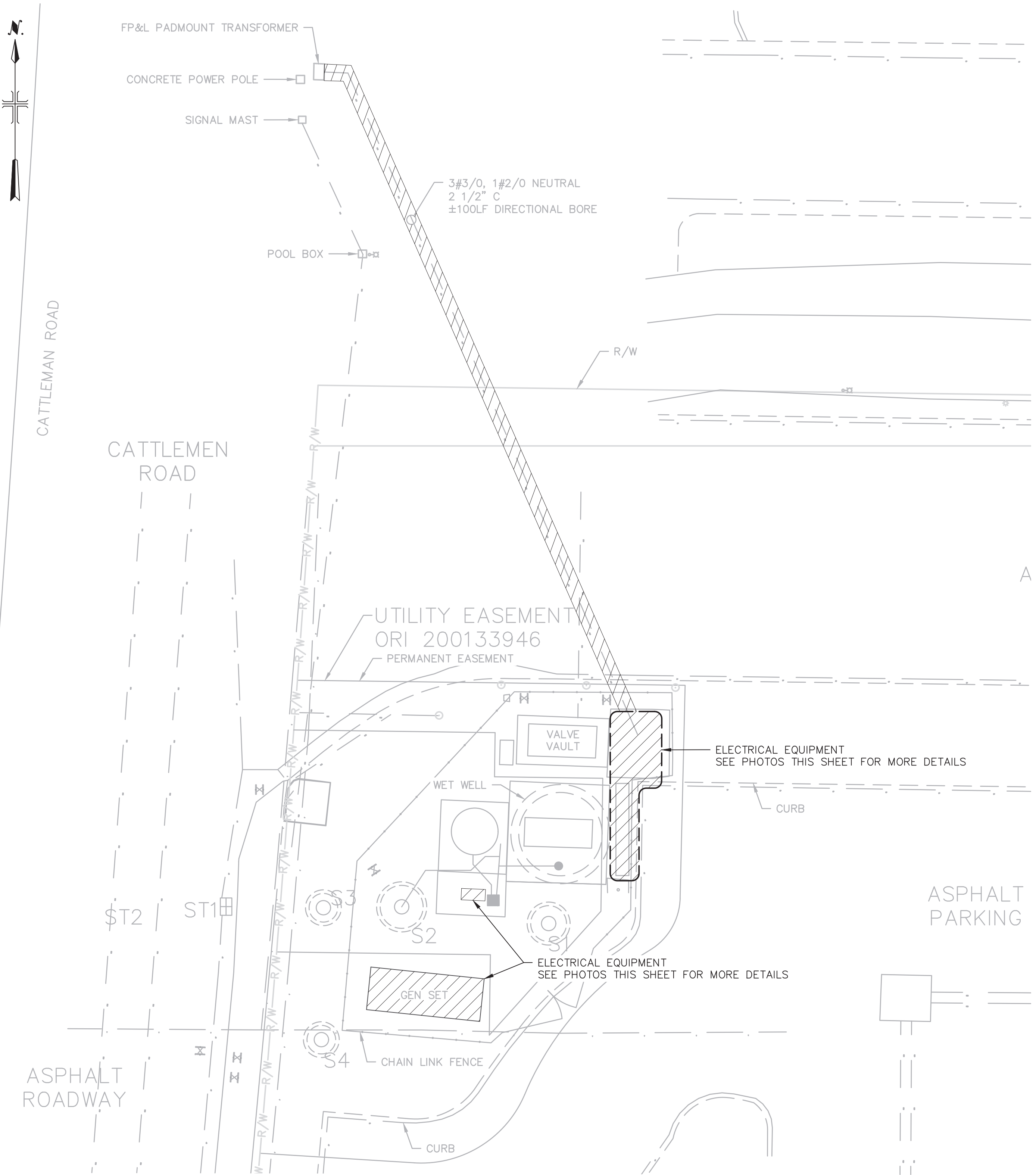
NOTES, LEGENDS & ABBREVIATIONS

SCALE: NOT TO SCALE

E-01

SHEET 43 OF 60

User: C:\00709_Spec-AUS-NGS00D_File: C:\USERS\G000709\DC\ACCD00S\ARCADIS\AUS-30036073-HOME DEPOT_LS_AND_FIA\PROJECT FILES\0_WIP\ELEC_V-03.DWG Scale: 1:1 ServedDate: 12/19/2025 Time: 12:58 Plot Date: Venkatesh, Ganesan; 12/22/2025; 13:41; Layout: 45



SITE PLAN

SCALE: 1" = 10'



NOTES:

- CONTRACTOR SHALL FIELD VERIFY ROUTE OF THE EXISTING CABLE/WIRES AND CONDUITS.
- REFER E-01 FOR DEMOLITION NOTES.
- CONTRACTOR SHALL COORDINATE WITH ELECTRIC UTILITY COMPANY, FLORIDA POWER & LIGHT (FPL), RELATIVE TO ELECTRICAL SERVICE CONNECTIONS AND REQUIREMENTS FOR DE-ENERGIZATION OF SERVICE TO ALLOW FOR RELOCATION OF SECONDARY SERVICE FEEDERS.

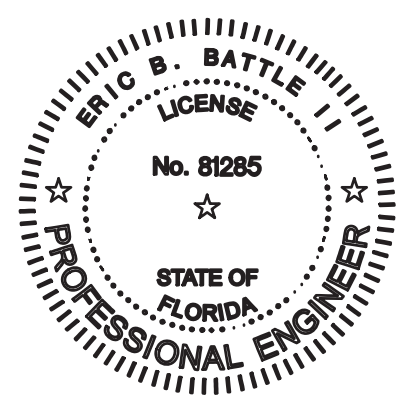


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PROJECT NO.: 30036073
FILE NAME: E-03
DESIGNED BY: ERIC BATTLE
DRAWN BY: VAN NGUYEN
CHECKED BY: ERIC BATTLE

SHEET TITLE

ELECTRICAL

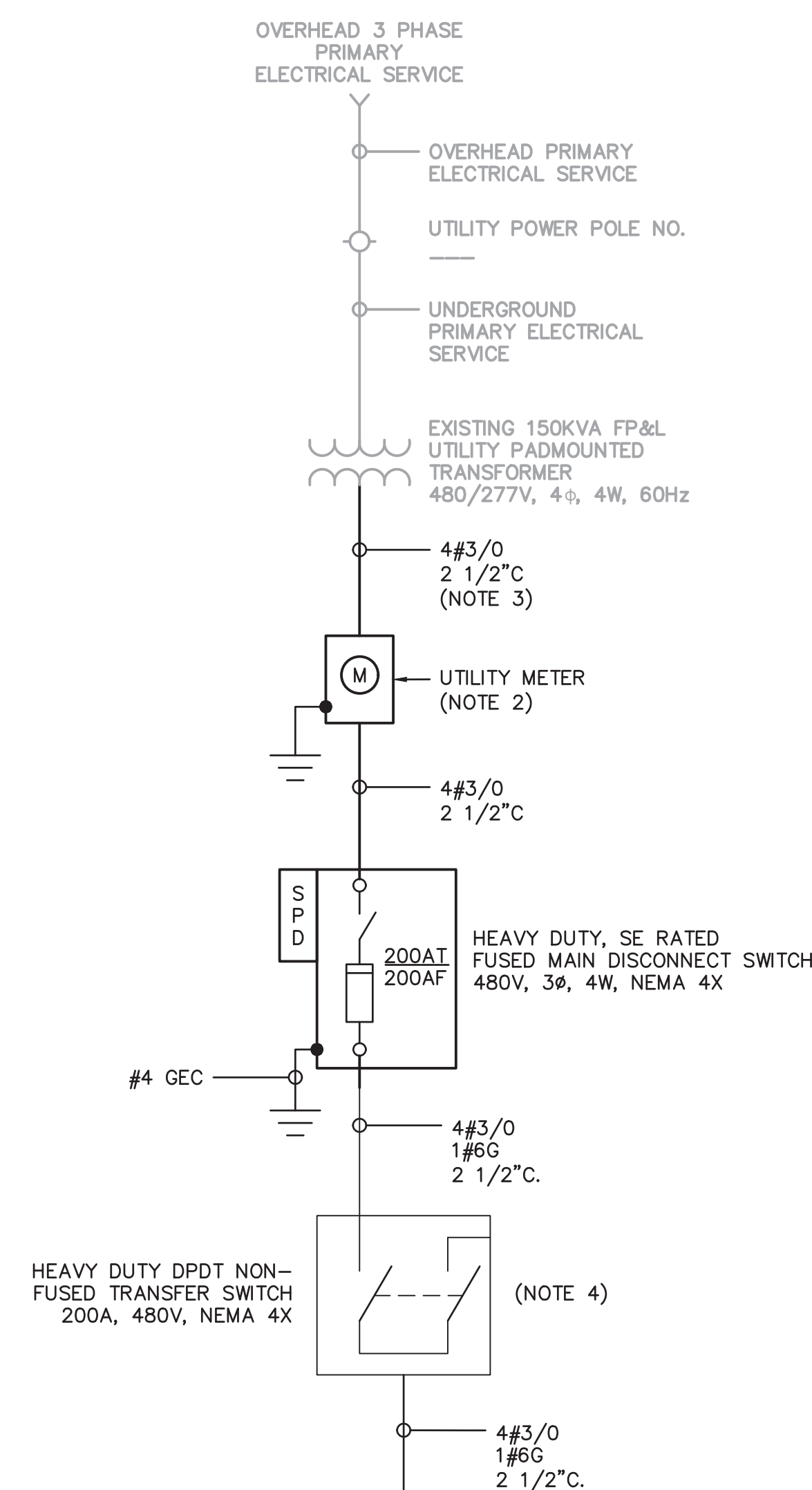
**SITE PLAN -
DEMOLITION**

SCALE: 1" = 10'

E-03

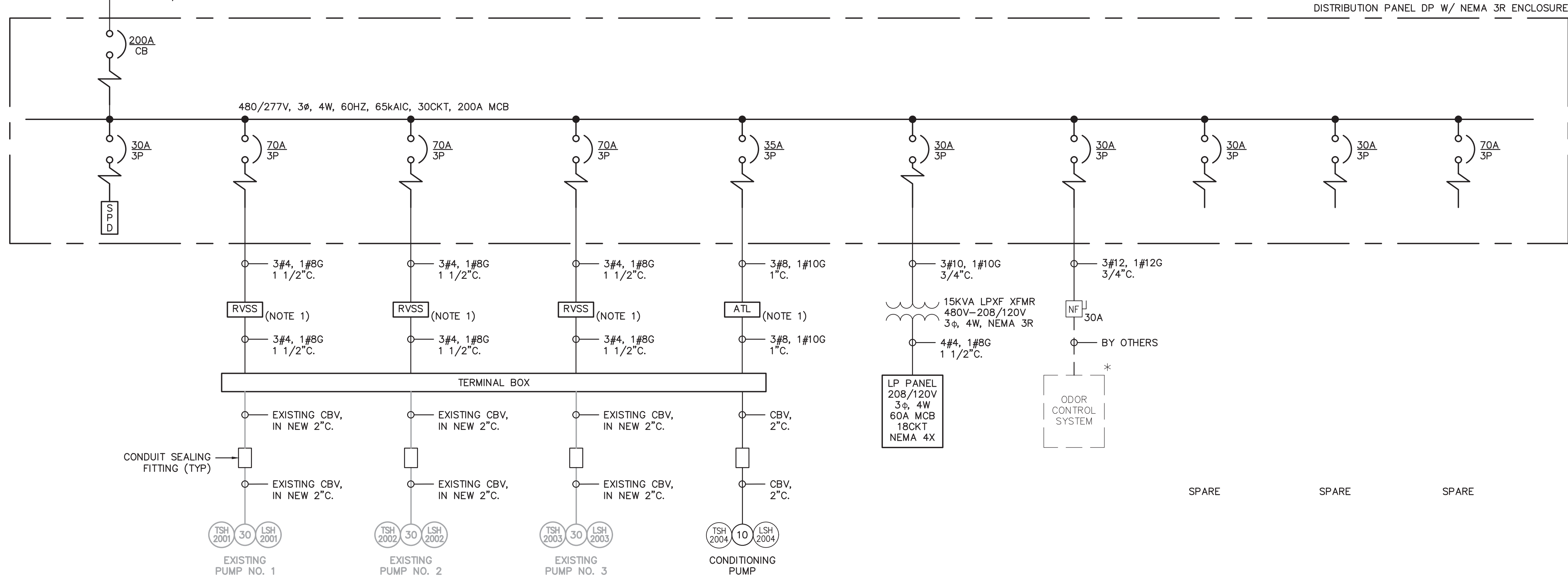
SHEET 45 OF 60

User: C:\00709 - Spec-AUS-NGS000 - File: C:\USERS\G000709\Documents\ARCADIS\AUS-30036073-HOME DEPOT LS AND FM\PROJECT FILES\NO-WIP\ELEC\E-04.DWG Scale: 1:1 Sheet Date: 12/19/2025 Time: 12:58 Plot Date: Venkatesh, Ganesan; 12/22/2025; 13:41; Layout: 46



DISTRIBUTION PANEL DP LOAD CALC			
EQUIPMENT	HP/KVA	CONNECTED LOAD (A)	RUNNING LOAD (A)
PUMP NO. 1	30 HP	40	40
PUMP NO. 2	30 HP	40	40
PUMP NO. 3	30 HP	40	40
CONDITIONING PUMP	10 HP	14	14
LPXL XFMR	15 KVA	18	14.4
ODOR CONTROL SYSTEM	10 KVA	12	12
SUBTOTAL		164.00	160.40
25% OF LARGEST MOTOR			10.00
LOAD PER NEC 430.24			170.40

- NOTES:
- EACH STARTER CABINET SHALL BE PROVIDED WITH A CIRCUIT BREAKER WITH A LOCKABLE HANDLE THROUGH THE INNER DOOR.
 - PROVIDE A NEW UTILITY METER AND COORDINATE FINAL METER LOCATION WITH THE ELECTRICAL UTILITY COMPANY. THE METER IS TO BE PROVIDED BY THE ELECTRICAL UTILITY COMPANY. THE METER SOCKET IS TO BE PROVIDED BY THE CONTRACTOR PER THE REQUIREMENTS OF THE ELECTRICAL UTILITY COMPANY. THE CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS WITH THE ELECTRICAL UTILITY COMPANY.
 - DUE TO ROADWAYS, TREES AND OTHER OBSTRUCTIONS – THE NEW CONDUIT SHALL BE INSTALLED USING JACK & BORING METHODS.
 - CONTRACTOR SHALL MAKE AS NEEDED KNOCKOUT PUNCHES AT BOTTOM OF MANUAL TRANSFER SWITCH TO BE AVAILABLE FOR PORTABLE GENERATOR CONNECTIONS.
- * PROVIDED BY OTHERS



ONE LINE DIAGRAM
SCALE: NOT TO SCALE

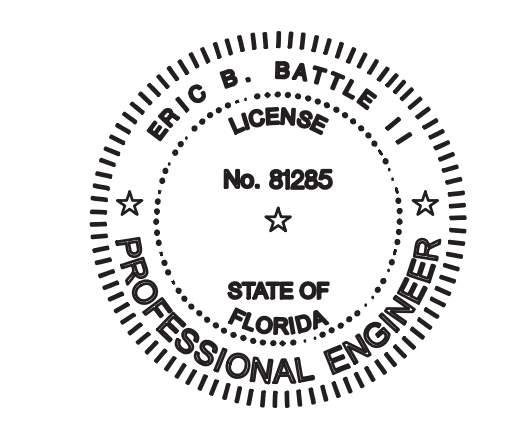


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PROJECT NO.: 30036073

FILE NAME: E-04

DESIGNED BY: ERIC BATTLE

DRAWN BY: VAN NGUYEN

CHECKED BY: ERIC BATTLE

SHEET TITLE

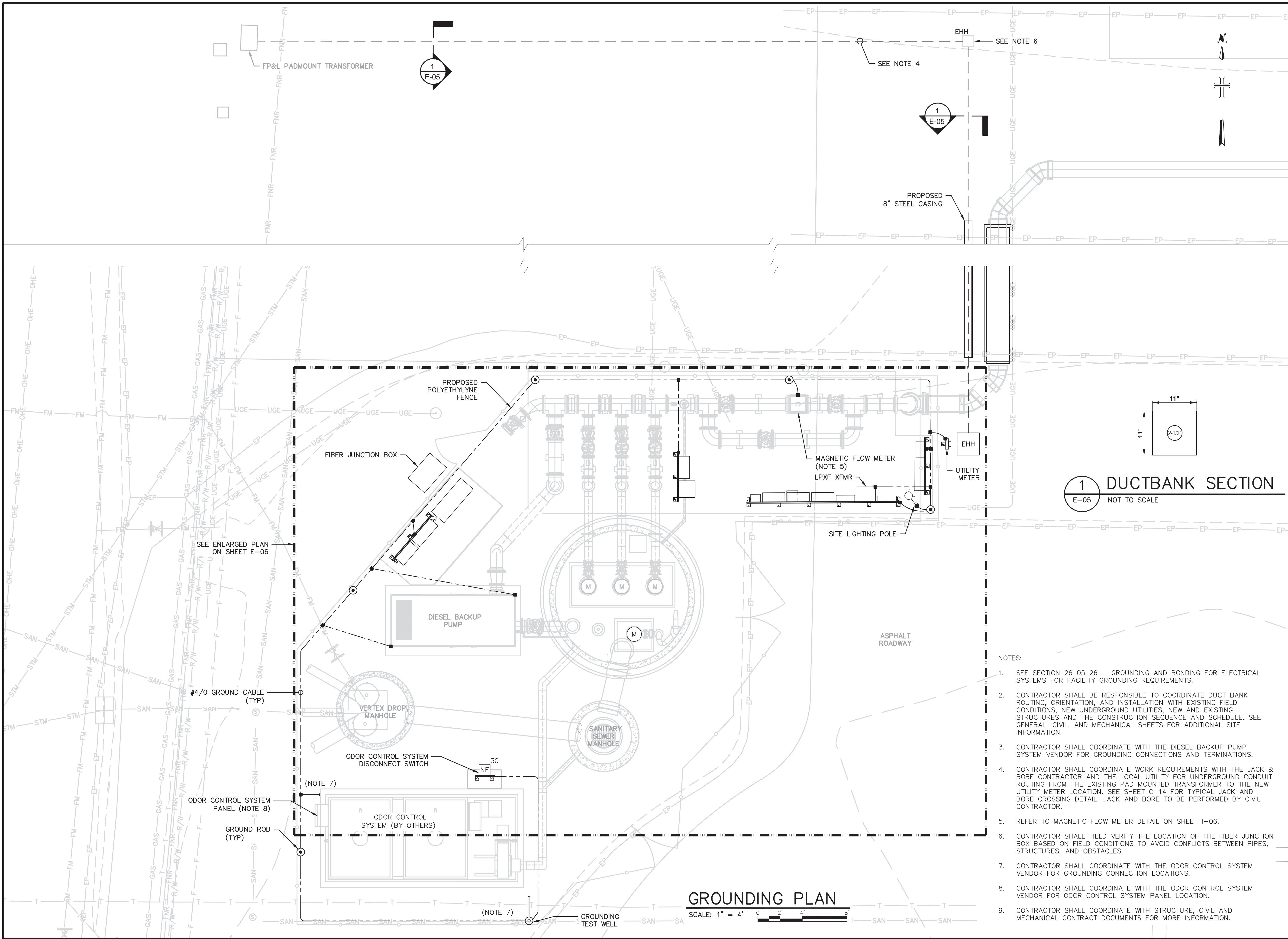
ELECTRICAL

ONE LINE DIAGRAM

SCALE: NOT TO SCALE

E-04
SHEET 46 OF 60

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HOME DEPOT MPS AND FM

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PROJECT NO.: 30036073

FILE NAME: E-05

DESIGNED BY: ERIC BATTLE

DRAWN BY: VAN NGUYEN

CHECKED BY: ERIC BATTLE

SHEET TITLE

ELECTRICAL

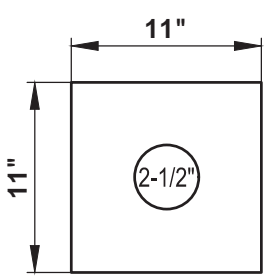
SITE PLAN AND GROUNDING PLAN

SCALE: AS SHOWN

E-05

SHEET 47 OF 60

1 DUCTBANK SECTION
E-05 NOT TO SCALE



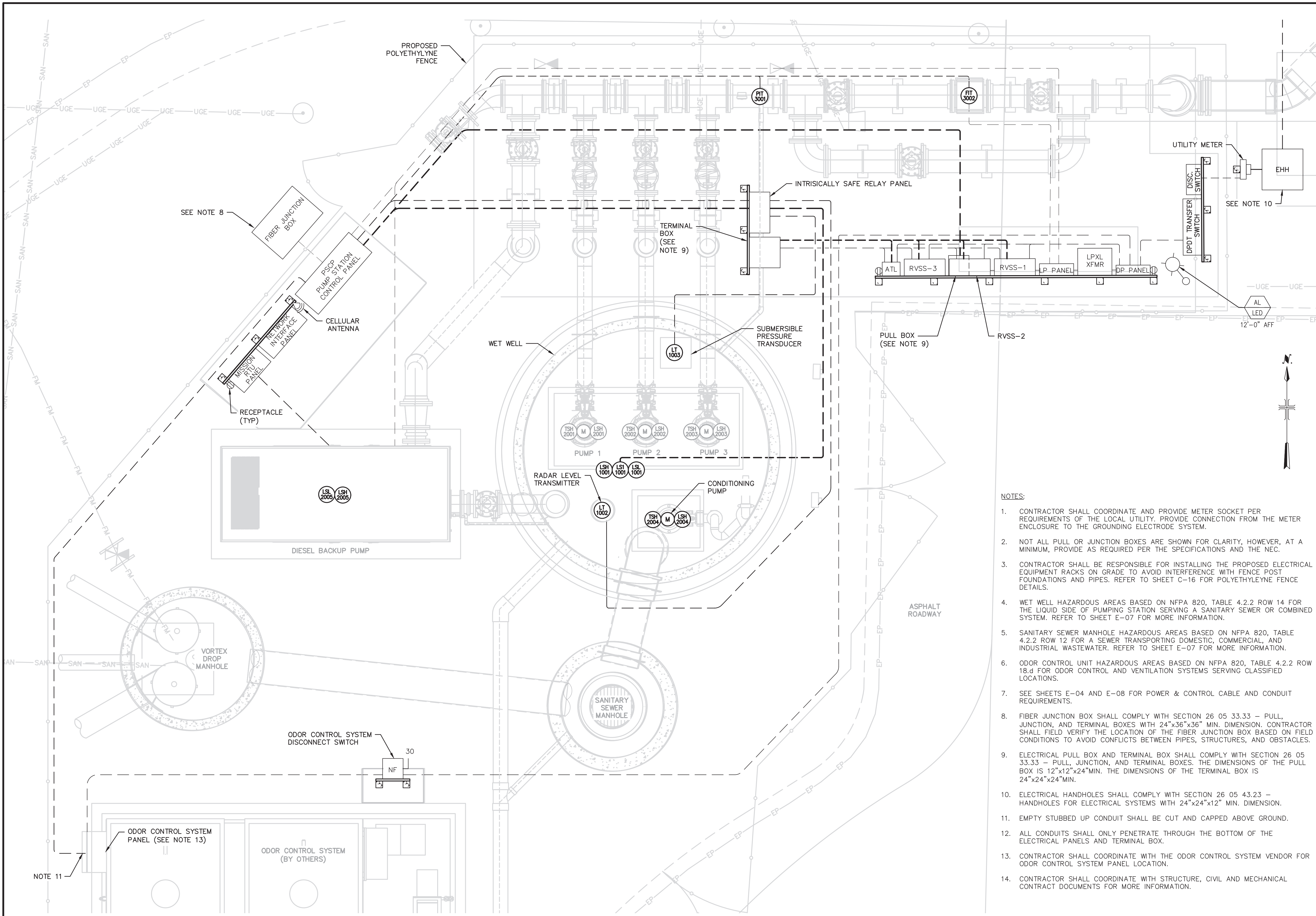
NOTES:


1. SEE SECTION 26 05 26 - GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS FOR FACILITY GROUNDING REQUIREMENTS.
2. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE DUCT BANK ROUTING, ORIENTATION, AND INSTALLATION WITH EXISTING FIELD CONDITIONS, NEW UNDERGROUND UTILITIES, NEW AND EXISTING STRUCTURES AND THE CONSTRUCTION SEQUENCE AND SCHEDULE. SEE GENERAL, CIVIL, AND MECHANICAL SHEETS FOR ADDITIONAL SITE INFORMATION.
3. CONTRACTOR SHALL COORDINATE WITH THE DIESEL BACKUP PUMP SYSTEM VENDOR FOR GROUNDING CONNECTIONS AND TERMINATIONS.
4. CONTRACTOR SHALL COORDINATE WORK REQUIREMENTS WITH THE JACK & BORE CONTRACTOR AND THE LOCAL UTILITY FOR UNDERGROUND CONDUIT ROUTING FROM THE EXISTING PAD MOUNTED TRANSFORMER TO THE NEW UTILITY METER LOCATION. SEE SHEET C-14 FOR TYPICAL JACK AND BORE CROSSING DETAIL. JACK AND BORE TO BE PERFORMED BY CIVIL CONTRACTOR.
5. REFER TO MAGNETIC FLOW METER DETAIL ON SHEET I-06.
6. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF THE FIBER JUNCTION BOX BASED ON FIELD CONDITIONS TO AVOID CONFLICTS BETWEEN PIPES, STRUCTURES, AND OBSTACLES.
7. CONTRACTOR SHALL COORDINATE WITH THE ODOR CONTROL SYSTEM VENDOR FOR GROUNDING CONNECTION LOCATIONS.
8. CONTRACTOR SHALL COORDINATE WITH THE ODOR CONTROL SYSTEM VENDOR FOR ODOR CONTROL SYSTEM PANEL LOCATION.
9. CONTRACTOR SHALL COORDINATE WITH STRUCTURE, CIVIL AND MECHANICAL CONTRACT DOCUMENTS FOR MORE INFORMATION.

GROUNDING PLAN




User: C:\00709_Spec-AUS-NGS\00709\00\ACDD\00\ARCADIS\VAUS-30036073-HOME DEPOT_LS AND FM\PROJECT FILES\NO-WIP\ELEC_V-E-06.DWG Scale: 1:1 SavedDate: 12/22/2025 Time: 13:31 Plot Date: Venkatesh, Genesam; 12/22/2025; 13:44 ; Layout: 48





Sarasota County

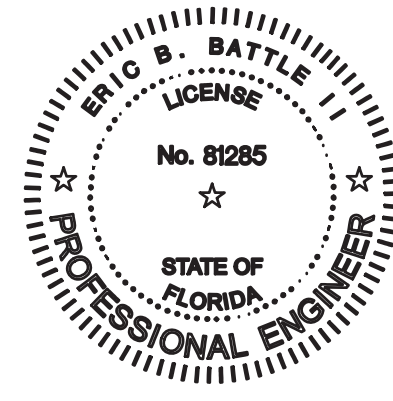
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DATE: DECEMBER 2025

PROJECT NO.: 30036073

FILE NAME: E-06

DESIGNED BY: ERIC BATTLE

DRAWN BY: VAN NGUYEN


CHECKED BY: ERIC BATTLE

SHEET TITLE

ELECTRICAL

ENLARGED PLAN

SCALE: 1" = 2'

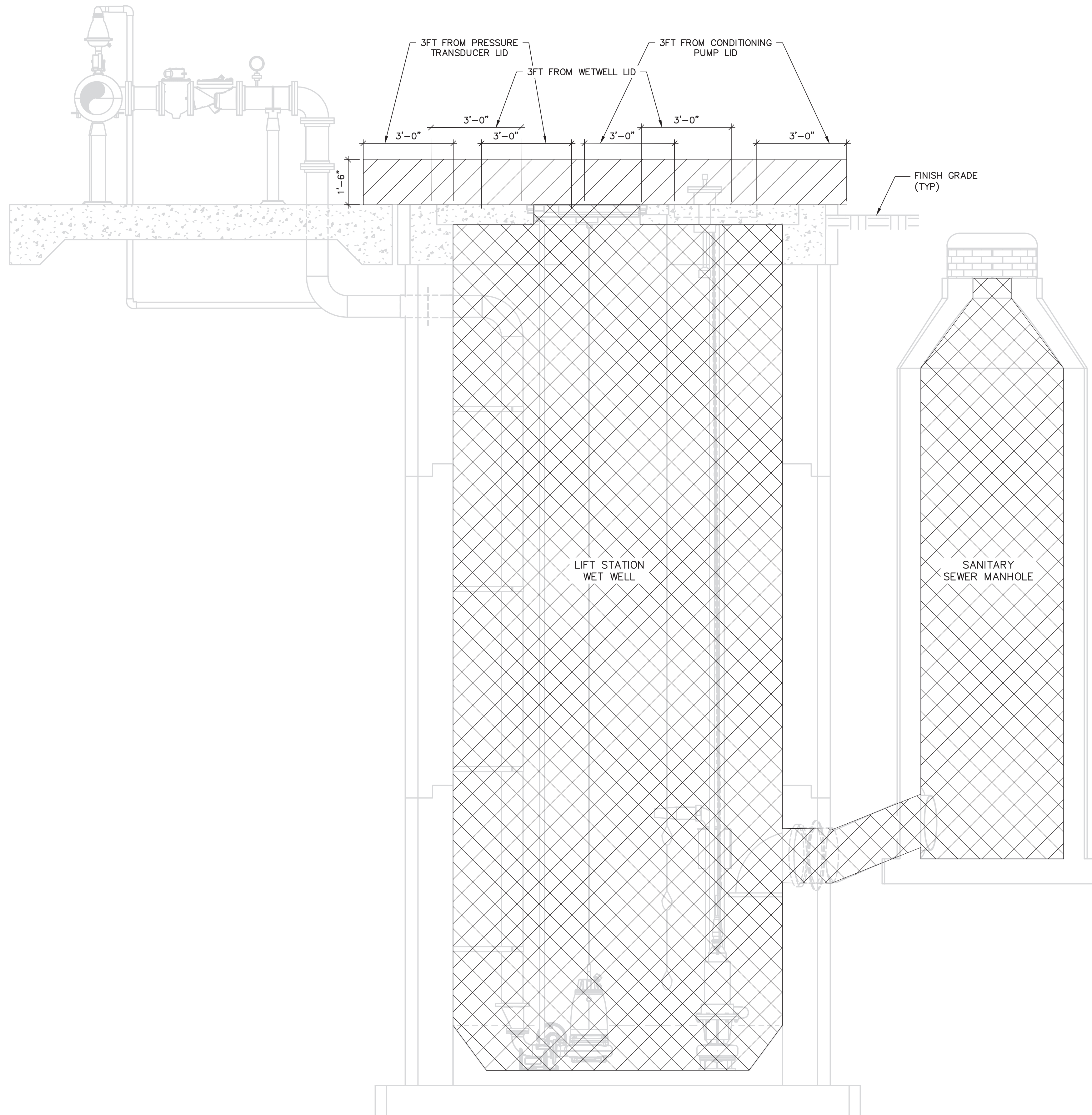


E-06

SHEET 48 OF 60

- NOTES:**
1. CONTRACTOR SHALL COORDINATE AND PROVIDE METER SOCKET PER REQUIREMENTS OF THE LOCAL UTILITY. PROVIDE CONNECTION FROM THE METER ENCLOSURE TO THE GROUNDING ELECTRODE SYSTEM.
 2. NOT ALL PULL OR JUNCTION BOXES ARE SHOWN FOR CLARITY, HOWEVER, AT A MINIMUM, PROVIDE AS REQUIRED PER THE SPECIFICATIONS AND THE NEC.
 3. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING THE PROPOSED ELECTRICAL EQUIPMENT RACKS ON GRADE TO AVOID INTERFERENCE WITH FENCE POST FOUNDATIONS AND PIPES. REFER TO SHEET C-16 FOR POLYETHYLENE FENCE DETAILS.
 4. WET WELL HAZARDOUS AREAS BASED ON NFPA 820, TABLE 4.2.2 ROW 14 FOR THE LIQUID SIDE OF PUMPING STATION SERVING A SANITARY SEWER OR COMBINED SYSTEM. REFER TO SHEET E-07 FOR MORE INFORMATION.
 5. SANITARY SEWER MANHOLE HAZARDOUS AREAS BASED ON NFPA 820, TABLE 4.2.2 ROW 12 FOR A SEWER TRANSPORTING DOMESTIC, COMMERCIAL, AND INDUSTRIAL WASTEWATER. REFER TO SHEET E-07 FOR MORE INFORMATION.
 6. ODOR CONTROL UNIT HAZARDOUS AREAS BASED ON NFPA 820, TABLE 4.2.2 ROW 18.d FOR ODOR CONTROL AND VENTILATION SYSTEMS SERVING CLASSIFIED LOCATIONS.
 7. SEE SHEETS E-04 AND E-08 FOR POWER & CONTROL CABLE AND CONDUIT REQUIREMENTS.
 8. FIBER JUNCTION BOX SHALL COMPLY WITH SECTION 26 05 33.33 - PULL, JUNCTION, AND TERMINAL BOXES WITH 24"x36"x36" MIN. DIMENSION. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF THE FIBER JUNCTION BOX BASED ON FIELD CONDITIONS TO AVOID CONFLICTS BETWEEN PIPES, STRUCTURES, AND OBSTACLES.
 9. ELECTRICAL PULL BOX AND TERMINAL BOX SHALL COMPLY WITH SECTION 26 05 33.33 - PULL, JUNCTION, AND TERMINAL BOXES. THE DIMENSIONS OF THE PULL BOX IS 12"x12"x24" MIN. THE DIMENSIONS OF THE TERMINAL BOX IS 24"x24"x24" MIN.
 10. ELECTRICAL HANDHOLES SHALL COMPLY WITH SECTION 26 05 43.23 - HANDHOLES FOR ELECTRICAL SYSTEMS WITH 24"x24"x12" MIN. DIMENSION.
 11. EMPTY STUBBED UP CONDUIT SHALL BE CUT AND CAPPED ABOVE GROUND.
 12. ALL CONDUITS SHALL ONLY PENETRATE THROUGH THE BOTTOM OF THE ELECTRICAL PANELS AND TERMINAL BOX.
 13. CONTRACTOR SHALL COORDINATE WITH THE ODOR CONTROL SYSTEM VENDOR FOR ODOR CONTROL SYSTEM PANEL LOCATION.
 14. CONTRACTOR SHALL COORDINATE WITH STRUCTURE, CIVIL AND MECHANICAL CONTRACT DOCUMENTS FOR MORE INFORMATION.

User: C:\Users\G\000709\OneDrive\Projects\30036073-Home Depot LS and FM\PROJECT FILES\07-ELEC\07-DWG - Scale: 1:1 SavedDate: 12/22/2025 Time: 13:54 Plot Date: Venkatesh, Ganesan; 12/22/2025; 13:56; Layout: 49



- NOTES:**
1. WET WELL HAZARDOUS AREAS BASED ON NFPA 820, TABLE 4.2.2 ROW 14 FOR THE LIQUID SIDE OF A PUMPING STATION SERVING A SANITARY SEWER OF COMBINED SYSTEM.
 2. SANITARY SEWER MANHOLE HAZARDOUS AREAS BASED ON NFPA 820, TABLE 4.2.2 ROW 12 FOR A SEWER TRANSPORTING DOMESTIC, COMMERCIAL, AND INDUSTRIAL WASTEWATER.

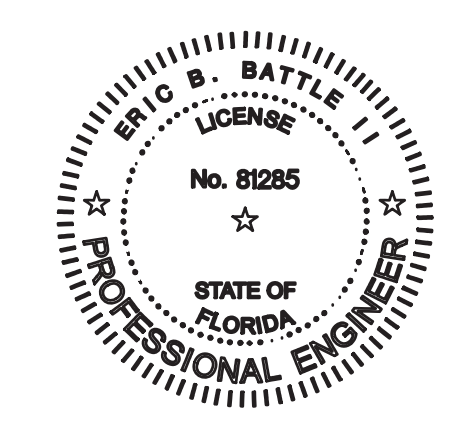


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HOME DEPOT MPS
AND FM

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DATE: DECEMBER 2025
PROJECT NO.: 30036073
FILE NAME: E-07
DESIGNED BY: ERIC BATTLE
DRAWN BY: VAN NGUYEN
CHECKED BY: ERIC BATTLE

SHEET TITLE

ELECTRICAL

AREA CLASSIFICATION PLAN

SCALE: 1/2" = 1'-0"

E-07
SHEET 49 OF 60

LEGEND:

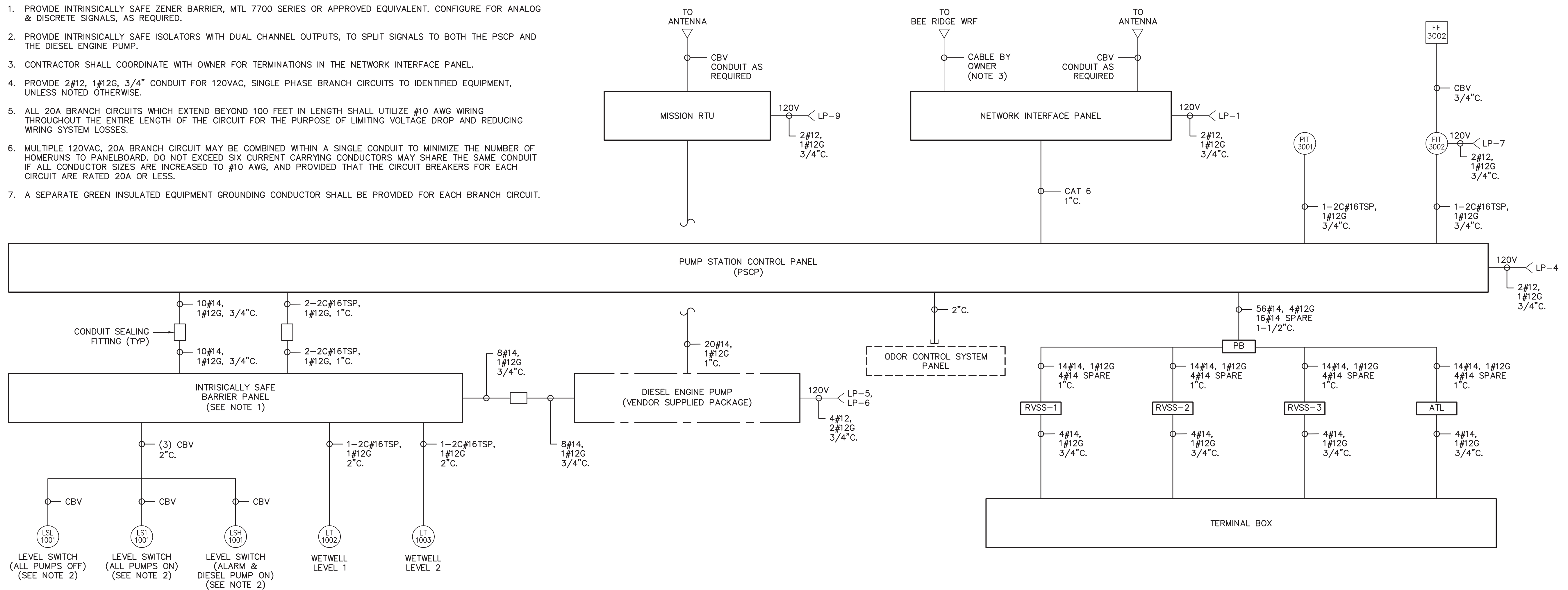
CLASS 1, DIVISION 1 AREA

CLASS 1, DIVISION 2 AREA

ELEVATION VIEW
SCALE: 1/2" = 1'-0"

NOTES:

1. PROVIDE INTRINSICALLY SAFE ZENER BARRIER, MTL 7700 SERIES OR APPROVED EQUIVALENT. CONFIGURE FOR ANALOG & DISCRETE SIGNALS, AS REQUIRED.
2. PROVIDE INTRINSICALLY SAFE ISOLATORS WITH DUAL CHANNEL OUTPUTS, TO SPLIT SIGNALS TO BOTH THE PSCP AND THE DIESEL ENGINE PUMP.
3. CONTRACTOR SHALL COORDINATE WITH OWNER FOR TERMINATIONS IN THE NETWORK INTERFACE PANEL.
4. PROVIDE 2#12, 1#12G, 3/4" CONDUIT FOR 120VAC, SINGLE PHASE BRANCH CIRCUITS TO IDENTIFIED EQUIPMENT, UNLESS NOTED OTHERWISE.
5. ALL 20A BRANCH CIRCUITS WHICH EXTEND BEYOND 100 FEET IN LENGTH SHALL UTILIZE #10 AWG WIRING THROUGHOUT THE ENTIRE LENGTH OF THE CIRCUIT FOR THE PURPOSE OF LIMITING VOLTAGE DROP AND REDUCING WIRING SYSTEM LOSSES.
6. MULTIPLE 120VAC, 20A BRANCH CIRCUIT MAY BE COMBINED WITHIN A SINGLE CONDUIT TO MINIMIZE THE NUMBER OF HOMERUNS TO PANELBOARD. DO NOT EXCEED SIX CURRENT CARRYING CONDUCTORS MAY SHARE THE SAME CONDUIT IF ALL CONDUCTOR SIZES ARE INCREASED TO #10 AWG, AND PROVIDED THAT THE CIRCUIT BREAKERS FOR EACH CIRCUIT ARE RATED 20A OR LESS.
7. A SEPARATE GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROVIDED FOR EACH BRANCH CIRCUIT.



INTERCONNECT DIAGRAM

FIXTURE LETTER	FIXTURE DESCRIPTION	BULB TYPE	MANUFACTURER MODEL NO.	REMARKS
AL	LITHONIA POST-MOUNT OUTDOOR LED AREA LIGHT. DIE-CAST ALUMINUM HOUSING WITH CLEAR POLYCARBONATE LENS. TWIST-LOCK REPLACEABLE PHOTOCELL. 4000K LIGHT ENGINE.	LED	DSX1 LED P9 40K T3M MVOLT	LIGHT POLE MODEL SSCA 12 4G 1.5 T20 DM19 DDBXD OR EQUAL.

LIGHTING FIXTURE SCHEDULE

NOTES:

1. FACTORY-SUPPLIED TEMPLATES MUST BE USED WHEN SETTING ANCHOR BOLTS. BASE PLATE, ANCHORS AND ANCHOR EMBEDMENT PER MANUFACTURER. CONTRACTOR SHALL COORDINATE WITH LIGHTING POLE MANUFACTURE FOR MORE INSTALLATION REQUIREMENTS.
2. REFER TO STRUCTURAL DRAWING S-05 FOR LIGHTING POLE FOUNDATION DETAIL.
3. REFER TO STRUCTURAL DRAWING S-01 FOR WIND SPEED.

CKT NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD KVA	AMPS	POLES	KVA PER PHASE			POLES	AMPS	LOAD KVA	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.
						A	B	C						
1	20	NETWORK INTERFACE PANEL	1.5	12.5	1	1.7			1	1.5	0.18	RECEPTACLE	20	2
3	20	SITE LIGHTING	1	8.3	1		1.5		1	4.2	0.5	PUMP STATION CONTROL PANEL (PSCP)	20	4
5	20	DIESEL ENGINE PUMP (BLOCK HEATER)	1	8.3	1			2.0	1	8.3	1	DIESEL ENGINE PUMP (TRICKLE CHARGER)	20	6
7	20	FIT/FE 3002	0.5	4.2	1	0.5			1			SPARE	20	8
9	20	MISSION RTU	0.05	0.4	1		0.1		1			SPARE	20	10
11		SPACE			1			0.0	1			SPACE		12
13		SPACE			1	0.0			1			SPACE		14
15		SPACE			1		0.0		1			SPACE		16
17		SPACE			1			0.0	1			SPACE		18
			TOTAL KVA			2.2	1.6	2.0	SERVICE CHARACTERISTICS					
			GRAND CONNECTED TOTAL KVA			5.7			VOLTS: 208Y/120 PHASE: 3 WIRE: 4 10k MIN AIC SYMM, FULLY RATED ASSEMBLY					
PANEL LP LOCATION: HOME DEPOT MASTER PS BUILDING: NOTES:														

PROPOSED LP PANEL SCHEDULE

CKT NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD KVA	AMPS	POLES	KVA PER PHASE			POLES	AMPS	LOAD KVA	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.
						A	B	C						
1	70	PUMP NO. 1	33.26	40.0	3	22.2			3	40.0	33.26	PUMP NO. 2	70	2
7	70	PUMP NO. 3	33.26	40.0	3	15.0			3	14.0	11.64	CONDITIONING PUMP	35	8
13	30	ODOR CONTROL PANEL DS	10	12.0	3	7.3			3	14.4	12	LPXF XFMR (15KVA)	30	14
19	30	SPARE			3	0.0			3			SPARE	30	20
25	30	SPD			3	0.0			3			SPARE	70	26
			TOTAL KVA			44.5	44.5	44.5	SERVICE CHARACTERISTICS					
			GRAND CONNECTED TOTAL KVA			133.4			VOLTS: 480Y/277 PHASE: 3 WIRE: 4 65k MIN AIC SYMM, FULLY RATED ASSEMBLY					
PANEL DP LOCATION: HOME DEPOT MASTER PS BUILDING: NOTES:														

PROPOSED DP PANEL SCHEDULE

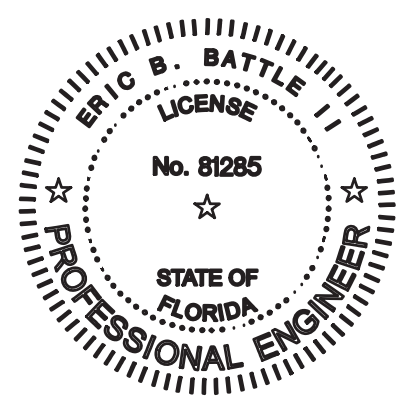


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DATE: DECEMBER 2025
PROJECT NO.: 30036073
FILE NAME: E-08
DESIGNED BY: ERIC BATTLE
DRAWN BY: VAN NGUYEN
CHECKED BY: ERIC BATTLE

SHEET TITLE

ELECTRICAL

**INTERCONNECT
DIAGRAM &
SCHEDULES**

SCALE: NOT TO SCALE

E-08

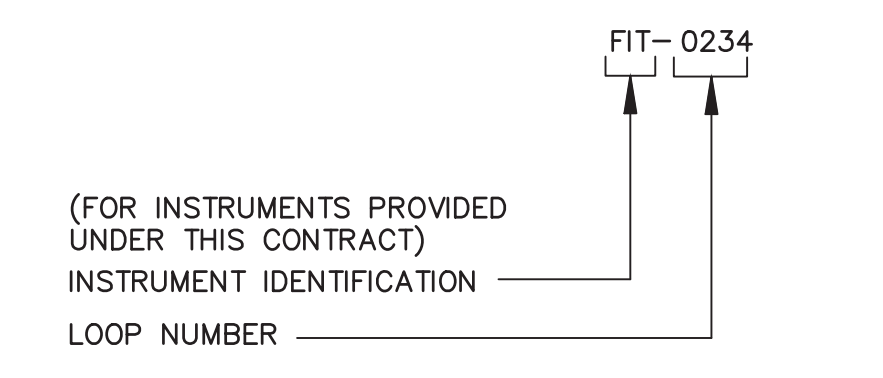
SHEET 50 OF 60

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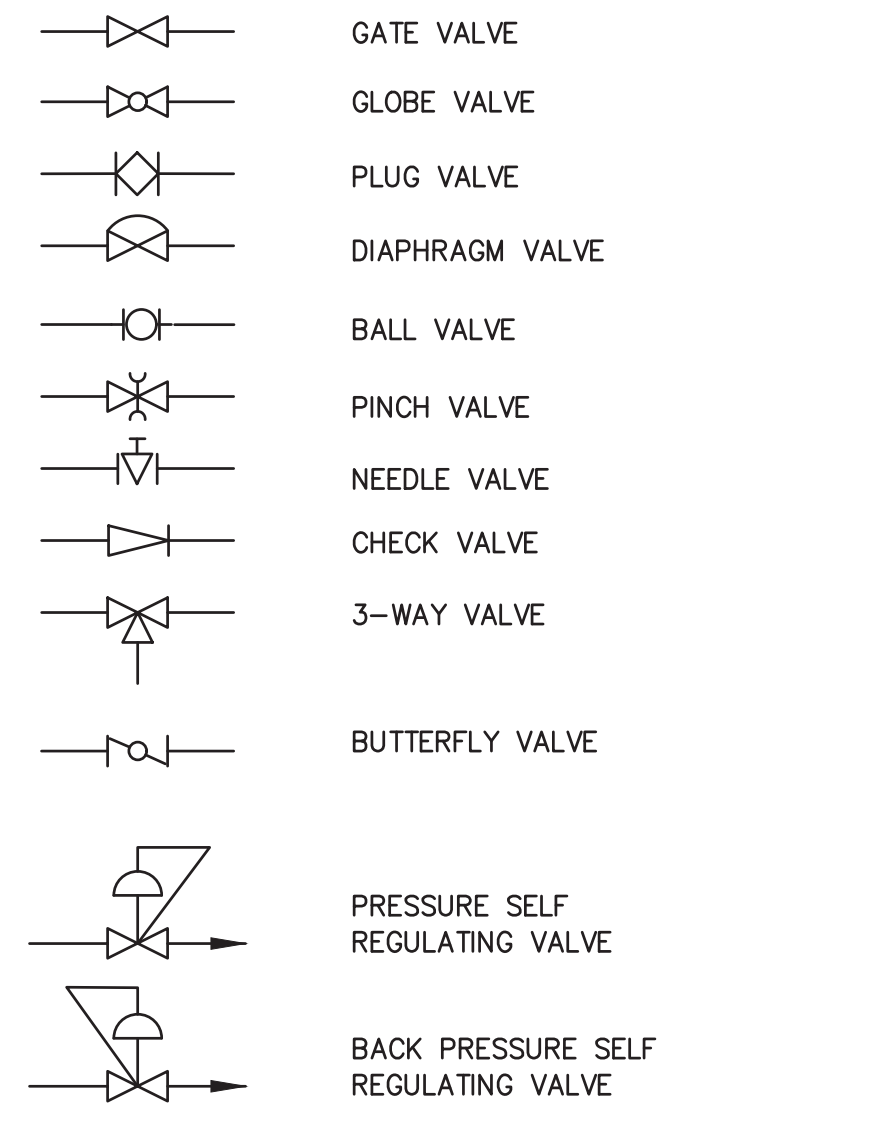
INSTRUMENT IDENTIFICATION LEGEND

FIRST LETTER	MEASURED OR INITIATING VARIABLE, MODIFIER		SUCCEEDING LETTERS		
	MEASURED OR INITIATING VARIABLE, MODIFIER	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A	ANALYSIS		ALARM		
B	BURNER FLAME		NOT USED	NOT USED	NOT USED
C	CONDUCTIVITY (ELECTRICAL)			CONTROL	CLOSED
D	DENSITY (MASS) OR SPECIFIC GRAVITY	DIFFERENTIAL			
E	VOLTAGE (EMF)		PRIMARY ELEMENT		
F	FLOW RATE	RATIO (FRACTION)			
G	INTRUSION		GLASS GAGE (UNCALIBRATED)		
H	HAND (MANUALLY INITIATED)				HIGH
I	CURRENT (ELECTRICAL)		INDICATE		
J	POWER	SCAN			
K	TIME OR TIME SCHEDULE			CONTROL STATION	
L	LEVEL		LIGHT (PILOT)		LOW
M	MOISTURE OR HUMIDITY				MIDDLE OR INTER-MEDIATE
N	SEQUENCE, STRATEGY		NOT USED	NOT USED	NOT USED
O	NOT USED		ORIFICE (RESTRICTION)		OPEN
P	PRESSURE OR VACUUM		POINT (TEST CONNECTION)	PULSE	
Q	QUANTITY	INTEGRATE OR TOTALIZE			
R	RADIOACTIVITY		RECORD OR PRINT		
S	SPEED, FREQUENCY	SAFETY		SWITCH	
T	TEMPERATURE			TRANSMIT	
U	MULTIVARIABLE		MULTIFUNCTION	MULTIFUNCTION	MULTIFUNCTION
V	VIBRATION			VALVE, DAMPER OR LOUVER	
W	WEIGHT OR FORCE		WELL		
X	UNCLASSIFIED	X AXIS	UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED
Y	EVENT STATUS	Y AXIS		RELAY OR COMPUTE	
Z	POSITION			DRIVE, ACTUATE OR UNCLASSIFIED FINAL CONTROL ELEMENT	

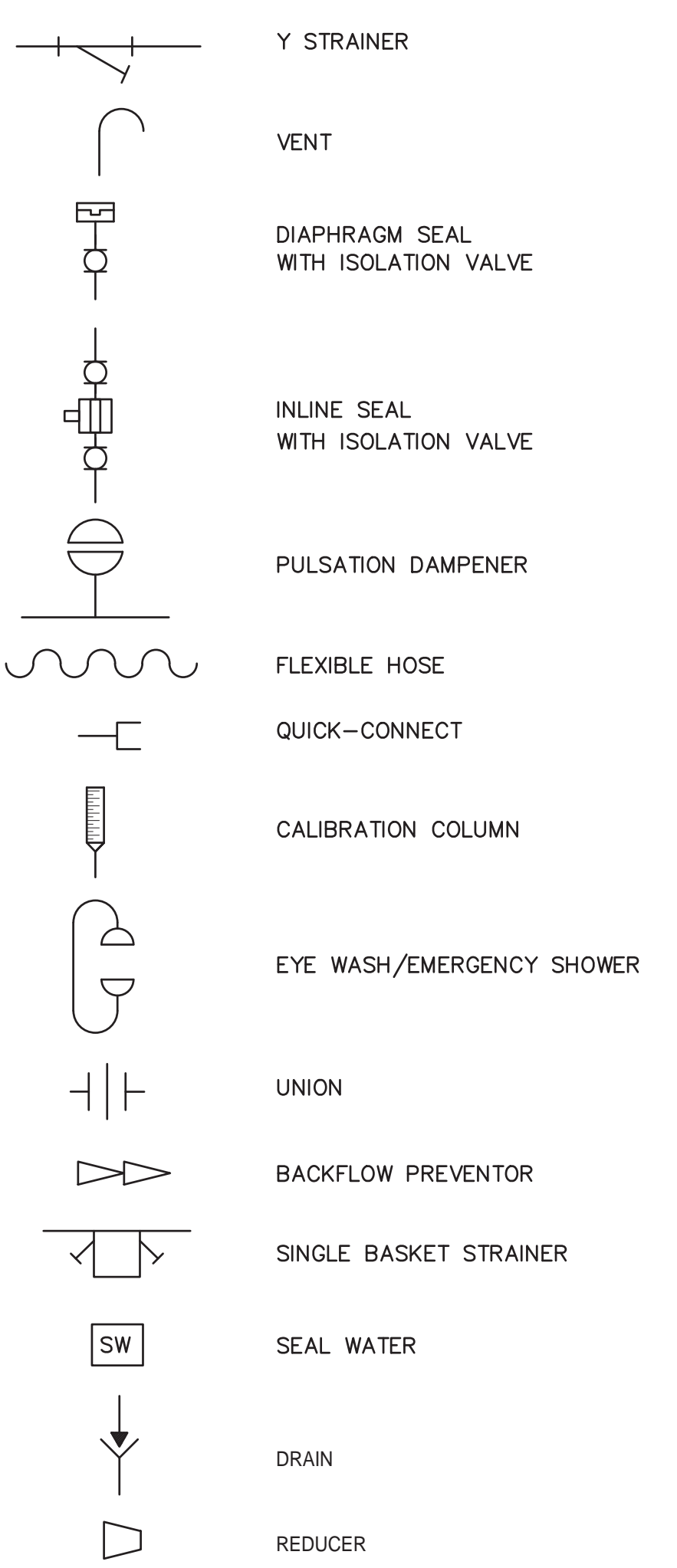
INSTRUMENT TAGGING SYSTEM



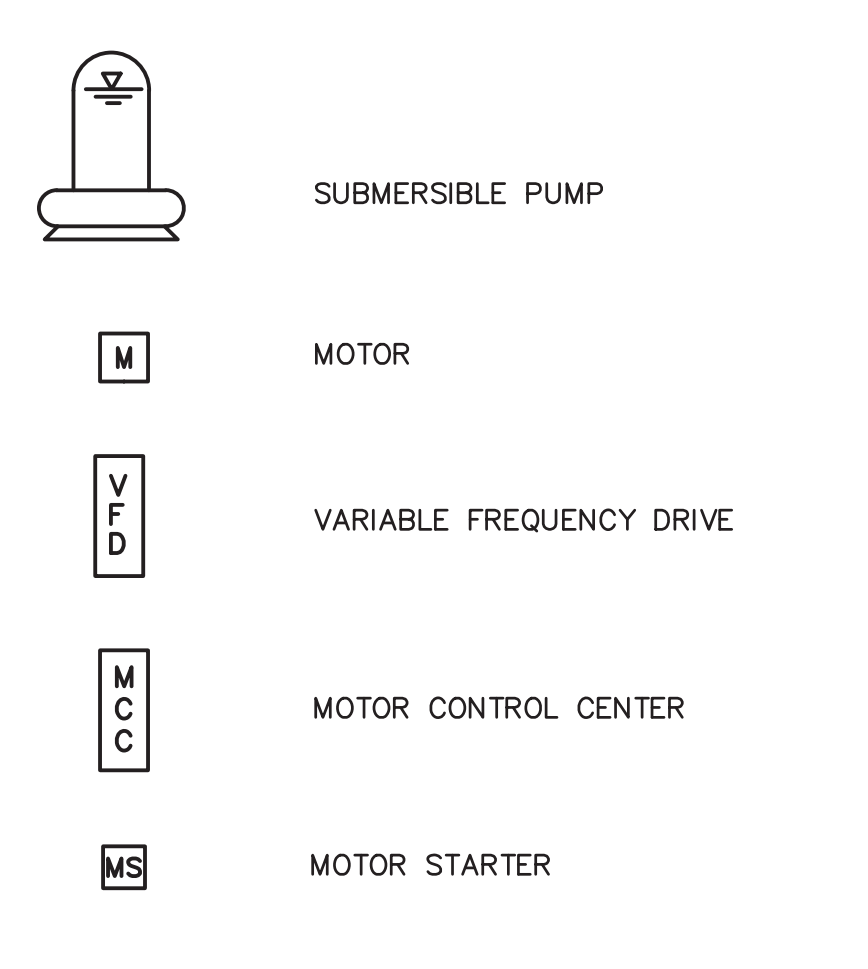
VALVE SYMBOLS



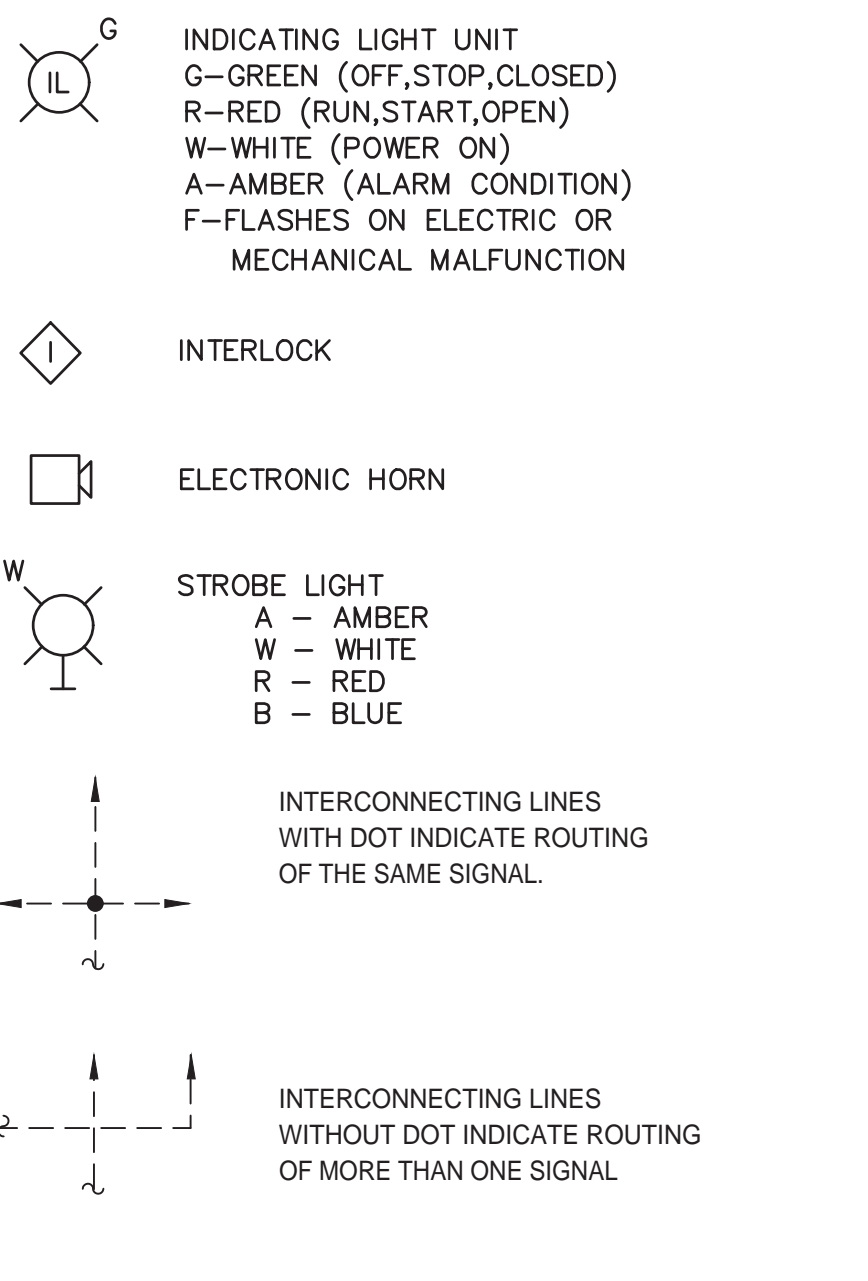
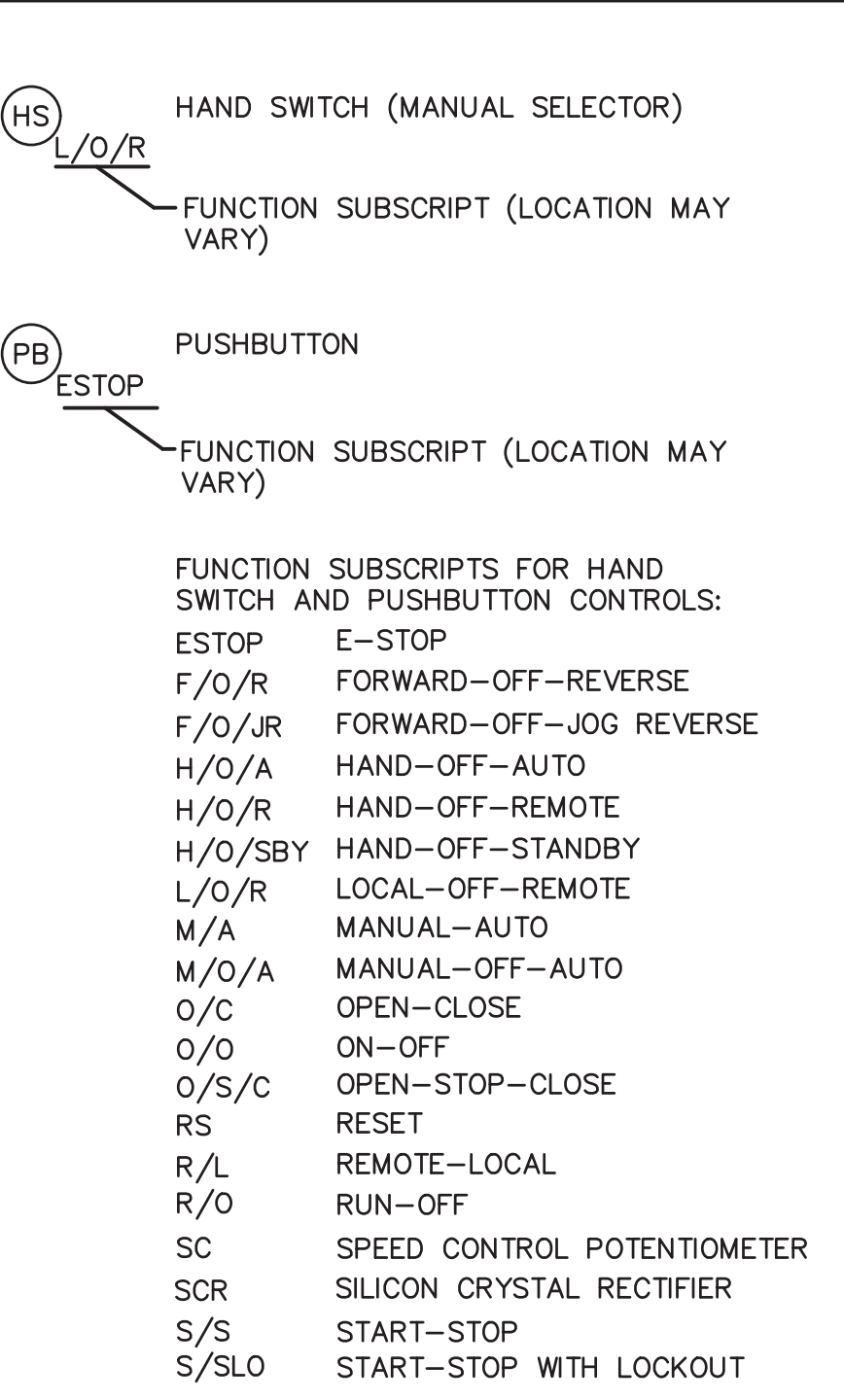
PIPING SYMBOLS



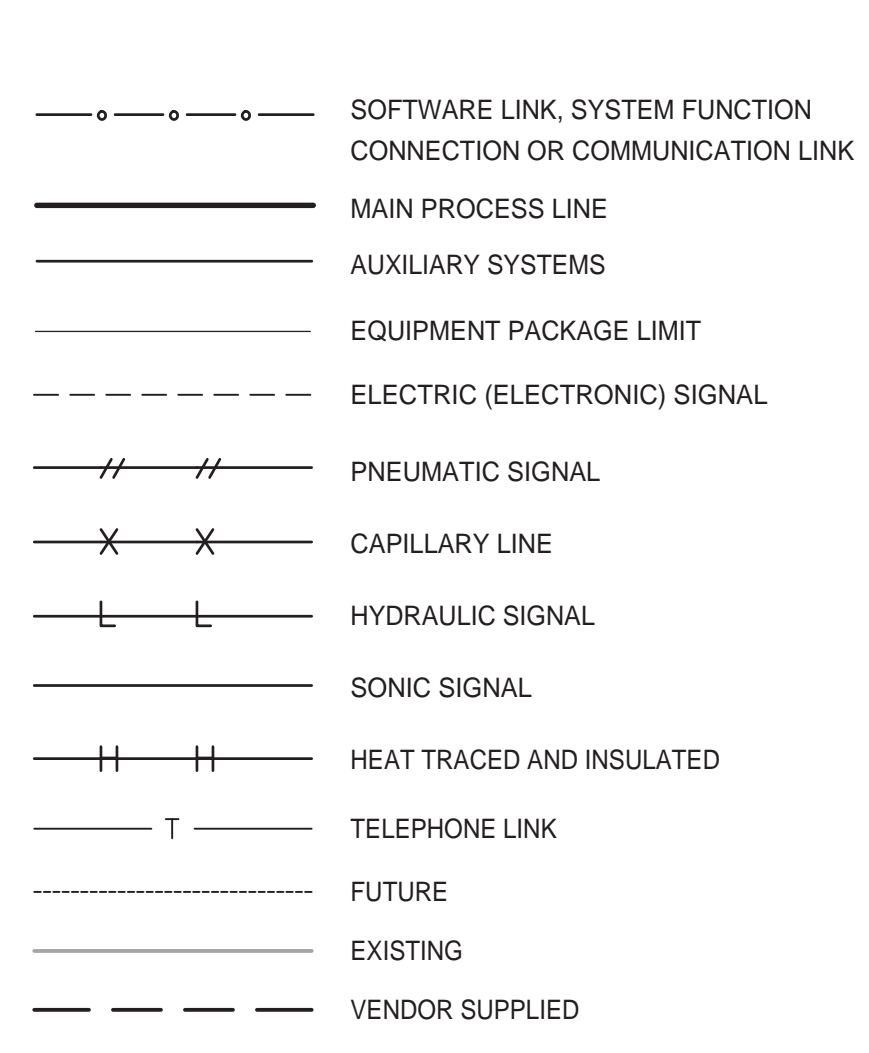
EQUIPMENT SYMBOLS



PANEL DEVICE SYMBOLS



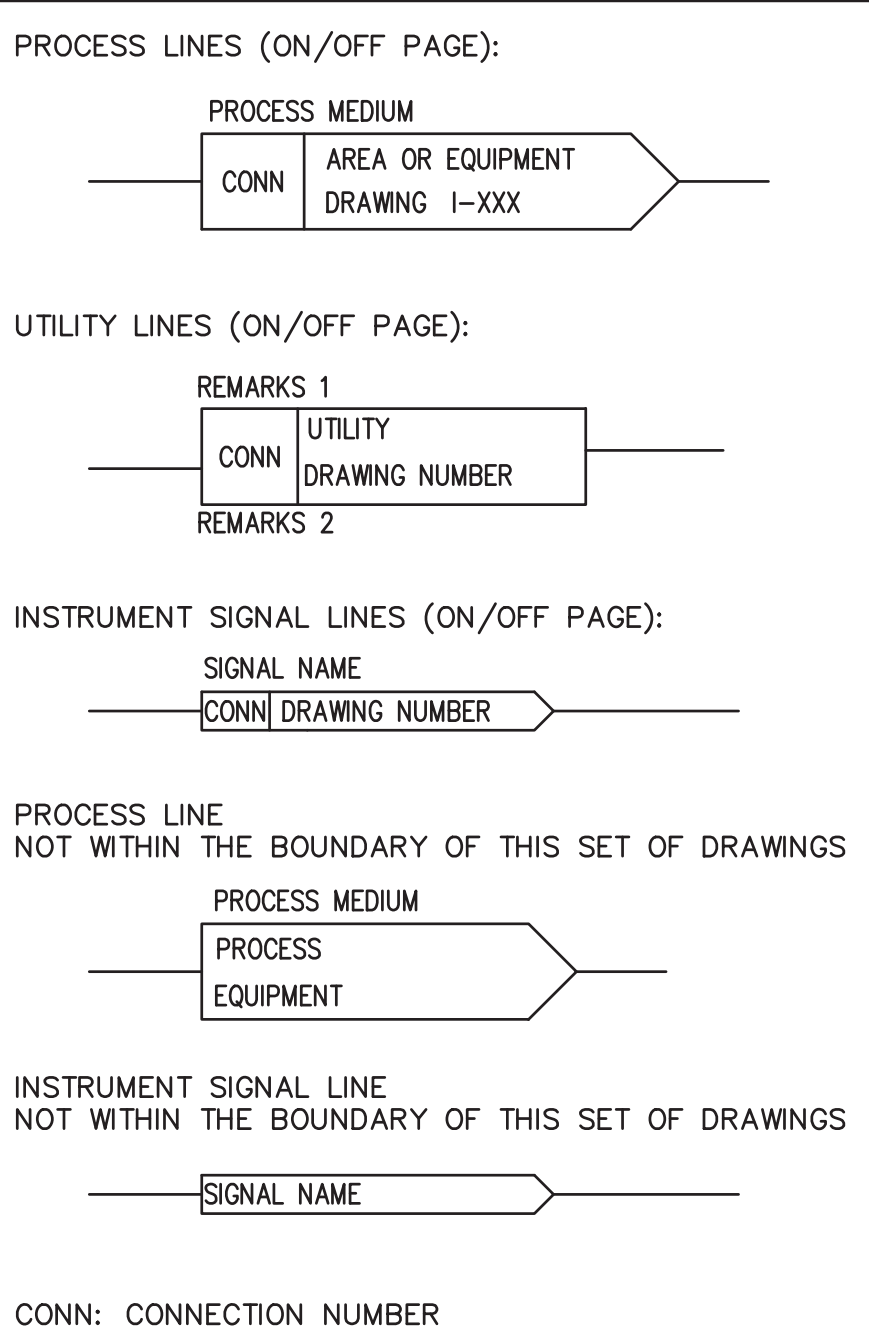
LINE TYPES



GENERAL NOTES

- COORDINATE WORK WITH OTHER DRAWINGS AND DISCIPLINES.
- THE SYMBOLS SHOWN ON THIS SHEET ARE STANDARD DESIGNATIONS. NOT ALL SYMBOLS ARE APPLICABLE TO THE INCLUDED DIAGRAMS AND INSTRUMENT TAGGING SYSTEM.
- NOT ALL PIPING, FITTINGS, AND TANK DETAILS ARE SHOWN. REFER TO PROCESS DRAWINGS FOR ACTUAL DETAILS.
- INSTRUMENT IDENTIFICATION AND LOOP NUMBERS APPEAR WITH INSTRUMENT SYMBOL.

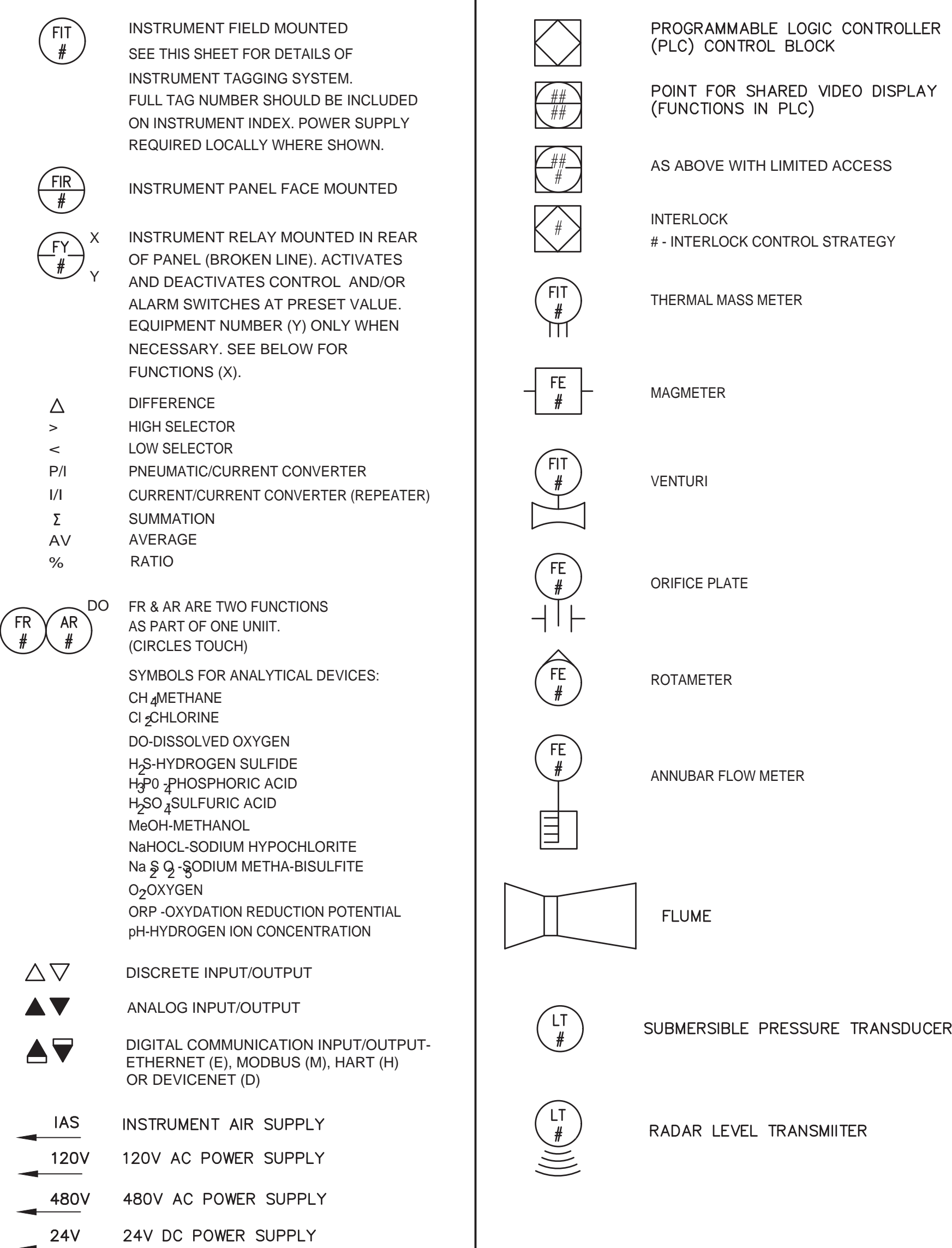
DRAWING CONTINUATION LEGEND



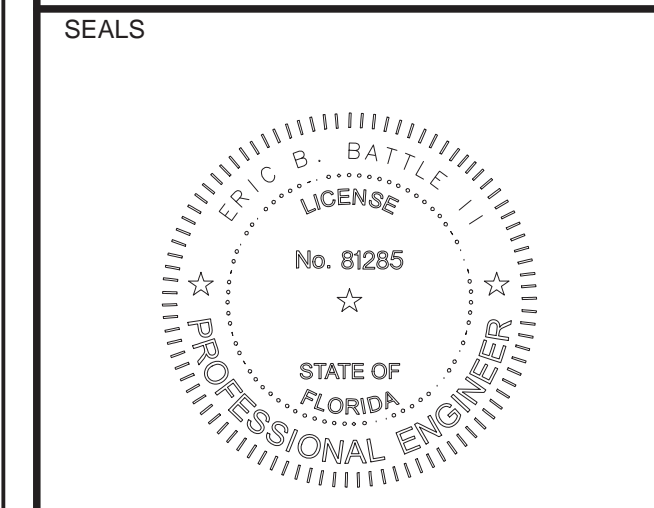
ABBREVIATIONS

- RVSS REDUCED VOLTAGE SOFT STARTER
 RTU REMOTE TERMINAL UNIT
 ATL ACROSS THE LINE

BASE INSTRUMENTATION SYMBOLS



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SARASOTA COUNTY PUBLIC UTILITIES DEPARTMENT

HOME DEPOT MPS AND FM

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1	DEC 2025	100% BID PLANS	AS
NO.	DATE	ISSUED FOR	BY

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DATE: DECEMBER 2025
 PROJECT NO.: 30036073
 FILE NAME: I-01
 DESIGNED BY: AKSHAYA SELVARAJ
 DRAWN BY: RATAN RAVINDRA SHENOY
 CHECKED BY: RALPH HARTMANN

SHEET TITLE

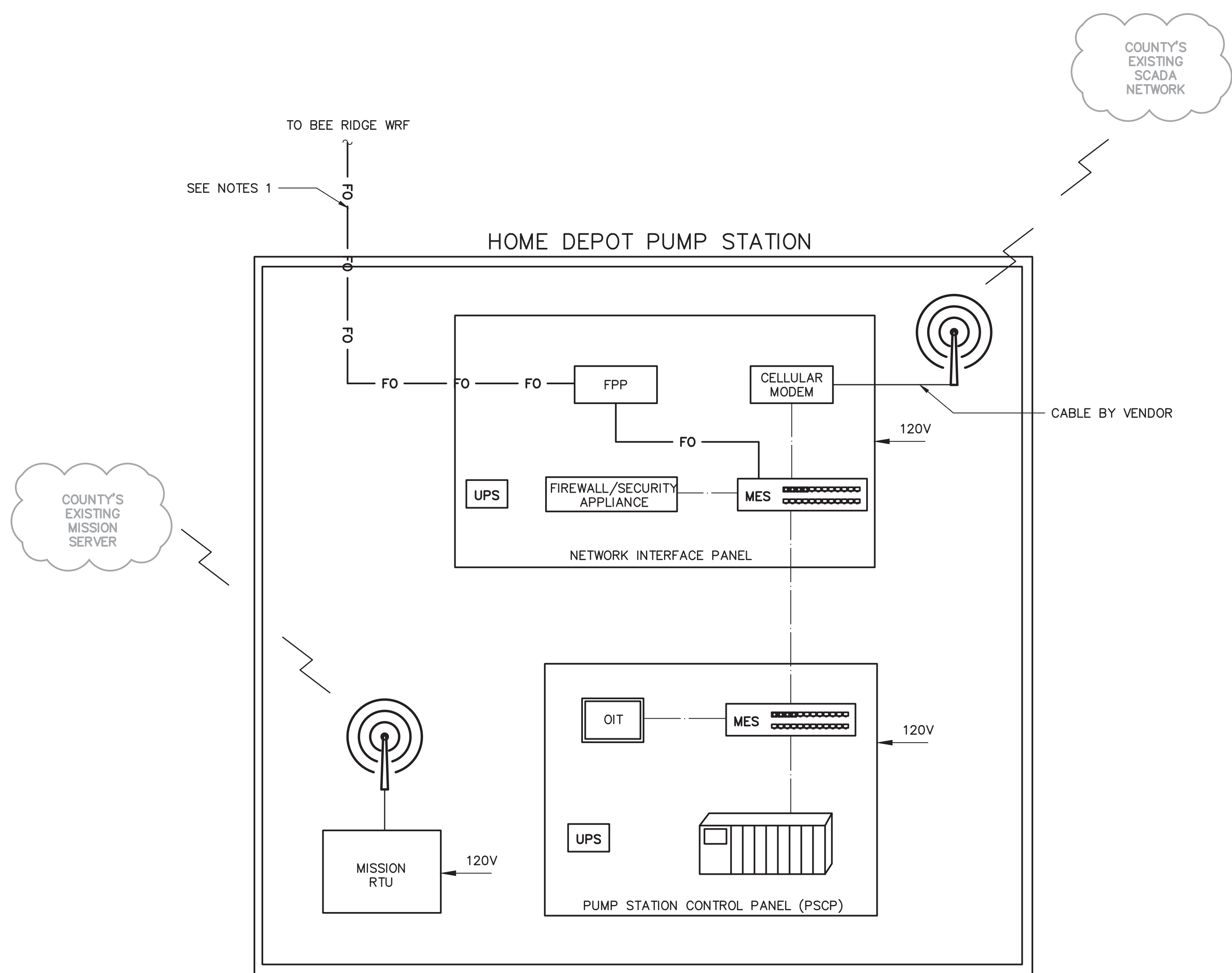
INSTRUMENTATION

LEGEND AND ABBREVIATIONS

SCALE: NOT TO SCALE

I-01
SHEET 54 OF 60

User: V02323, Spec: AUS-NCSMOD, File: C:\Users\NCSMOD, File: C:\Users\NCSMOD\Documents\ARCADIS\AUS-30036073-HOME DEPOT LS AND FM\PROJECT FILES\0_MPS\MS\I-02.DWG, Scale: 1:1, SavedDate: 12/22/2025, Time: 19:26, Plot Date: V, Gobal, Nthreast, 12/22/2025, 19:27, Layout: I-02



SYMBOLS AND LEGEND

----- ETHERNET/COPPER CAT 6
 — FO — FIBER OPTIC CABLE

MES [Symbol] MANAGED ETHERNET SWITCH
 [Symbol] PROGRAMMING LOGIC CONTROLLER (NON-REDUNDANT)
 [Symbol] ANTENNA

ABBREVIATIONS

OIT OPERATOR INTERFACE TERMINAL
 UPS UNINTERRUPTIBLE POWER SUPPLY
 RTU REMOTE TERMINAL UNIT

- NOTES:**
- FIBER LINK BETWEEN THE PUMP STATION AND BEE RIDGE WRF SHALL BE PROVIDED BY THE OWNER. CONTRACTOR SHALL COORDINATE FOR TERMINATIONS IN THE NETWORK INTERFACE PANEL.

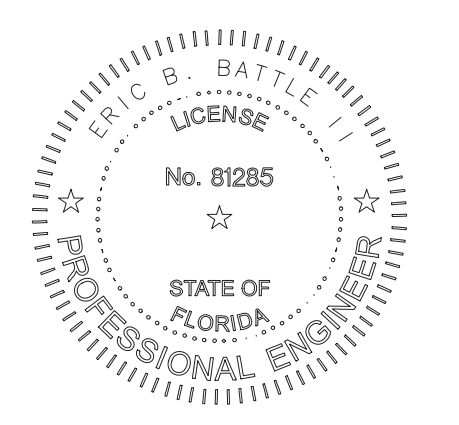


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 FILE NAME: I-02
 DESIGNED BY: AKSHAYA SELVARAJ
 DRAWN BY: ABHINAYA MURUGADASS
 CHECKED BY: RALPH HARTMANN

SHEET TITLE

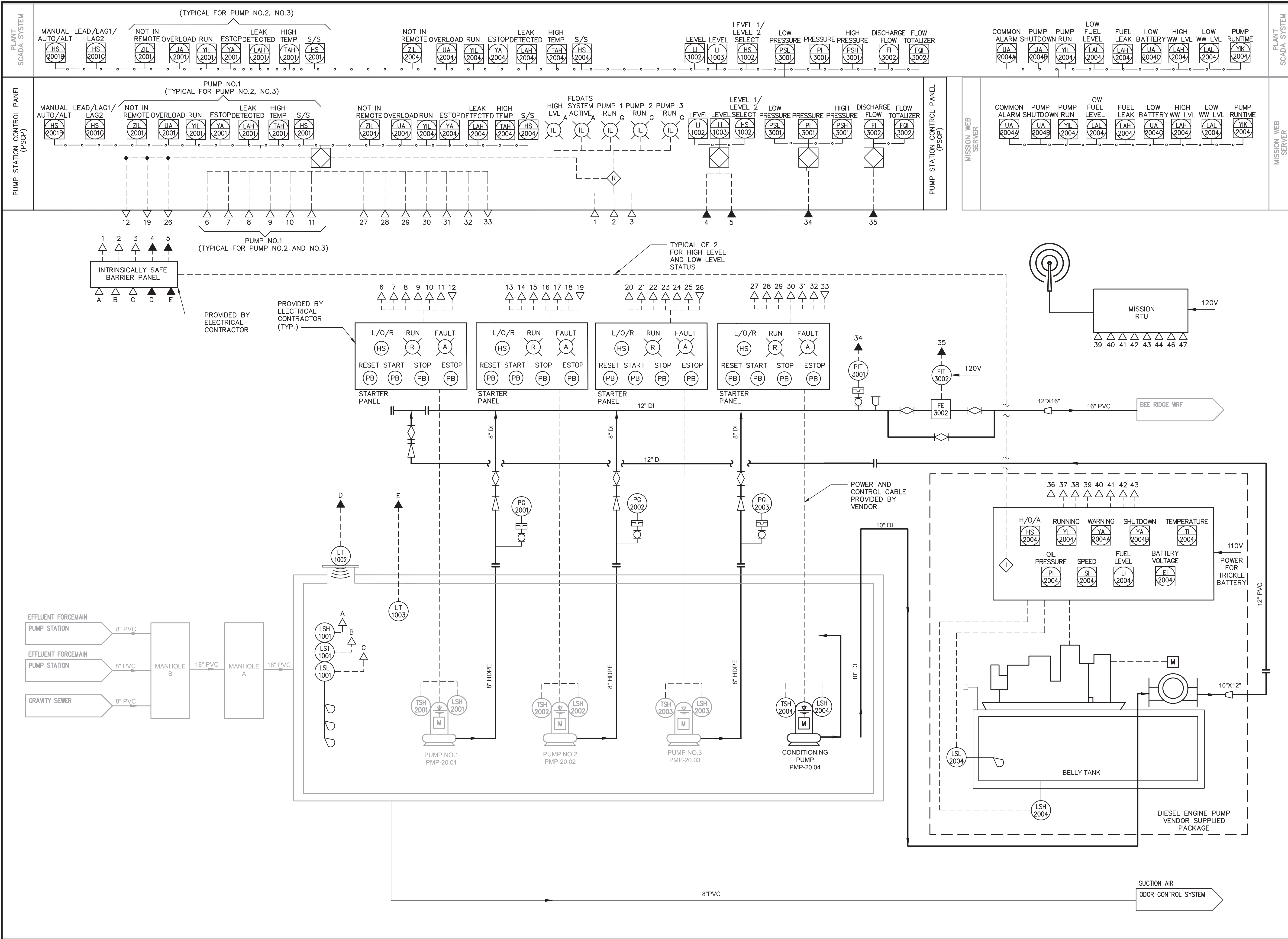
INSTRUMENTATION

NETWORK
 ARCHITECTURE

SCALE:
 NOT TO SCALE

I-02
 SHEET 55 OF 60

User: V02323, Spec: AUS-NCSM0D, File: C:\Users\AUS-NCSM0D\Documents\Projects\AUS-30036073-HOME DEPOT LS AND FM\PROJECT FILES\0_MIP\MS\I-03.DWG, Scale: 1:1, SavedDate: 12/22/2025, Time: 19:26, Plot Date: V. Gobul Nithesh, 12/22/2025, 19:27, Layout: I-03



Sarasota County

CONSULTANTS

ARCADIS

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SEALS

ERIC B. BATTLE
LICENSE
No. 81285
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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FILE NAME: I-03
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CHECKED BY: RALPH HARTMANN

SHEET TITLE
INSTRUMENTATION

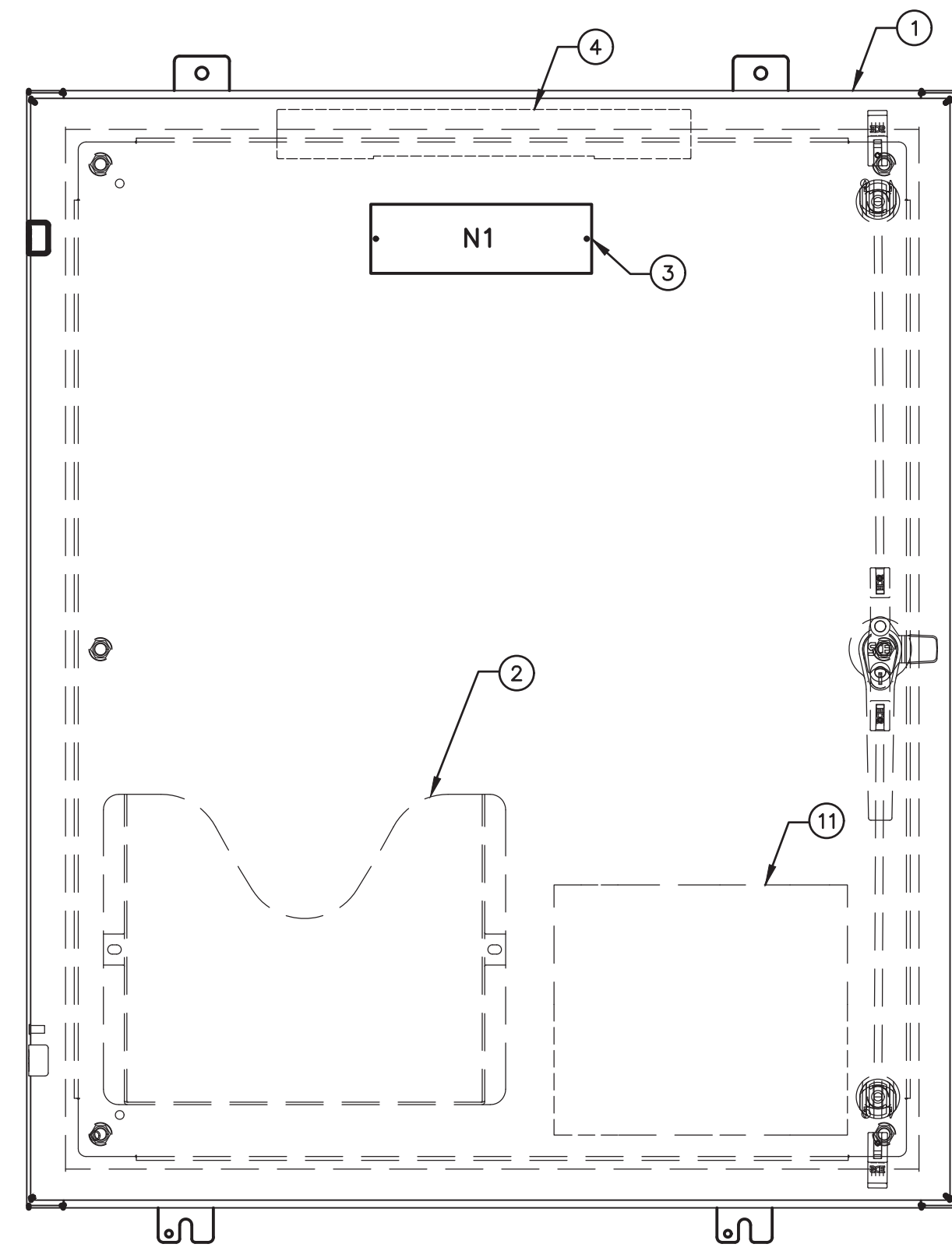
PUMP STATION P&ID

SCALE: NOT TO SCALE

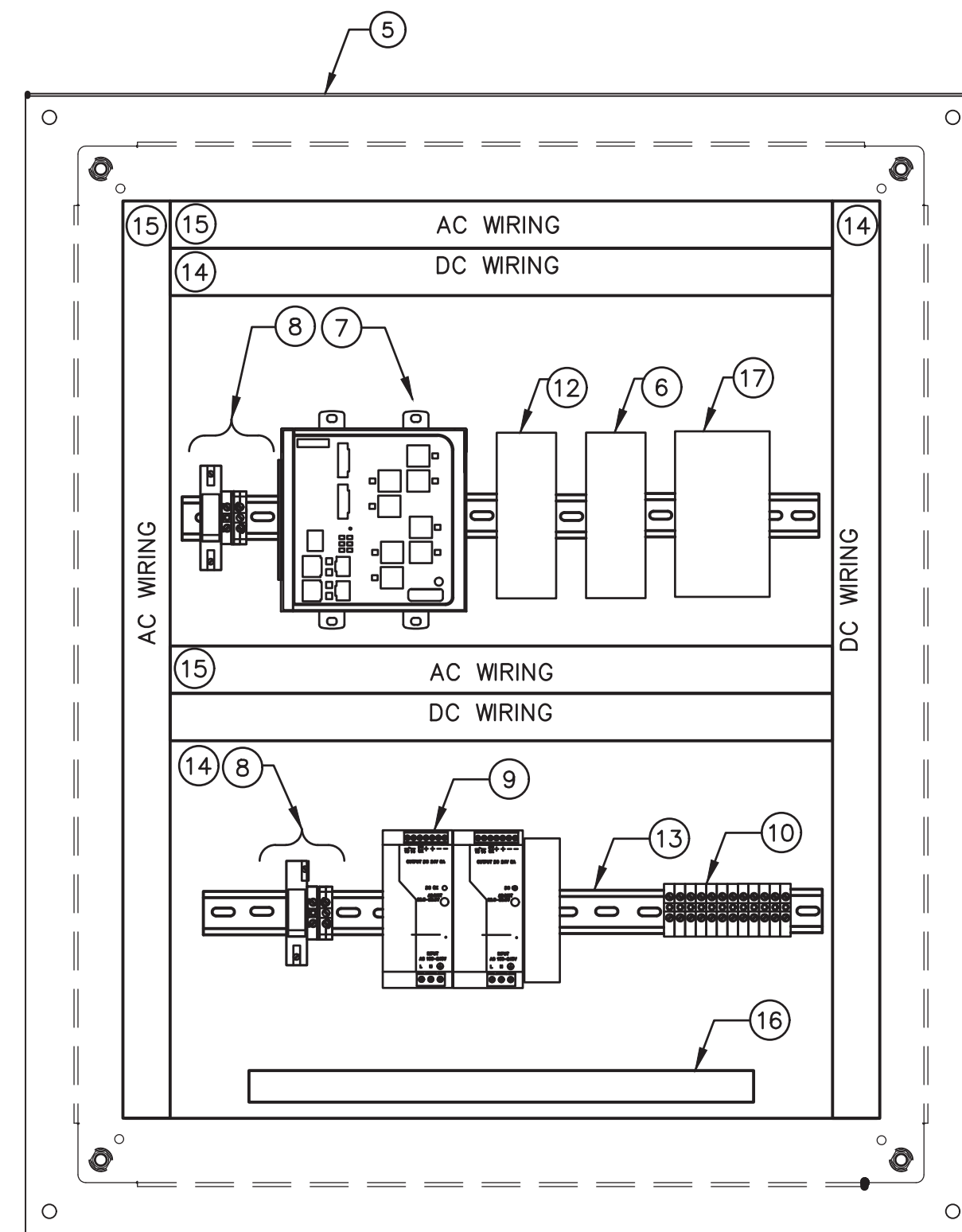
I-03

SHEET 56 OF 60

User: V02323, Spec: AUS-NCSMOD, File: C:\Users\V02323\Documents\ARCADIS\AUS-30036073-HOME DEPOT LS AND FM\PROJECT FILES\0_MIP\NS\I-04.DWG, Scale: 1:1, SavedDate: 12/22/2025, Time: 19:26, Plot Date: V. Gobul. Nithresh; 12/22/2025; 19:27; Layout: I-04

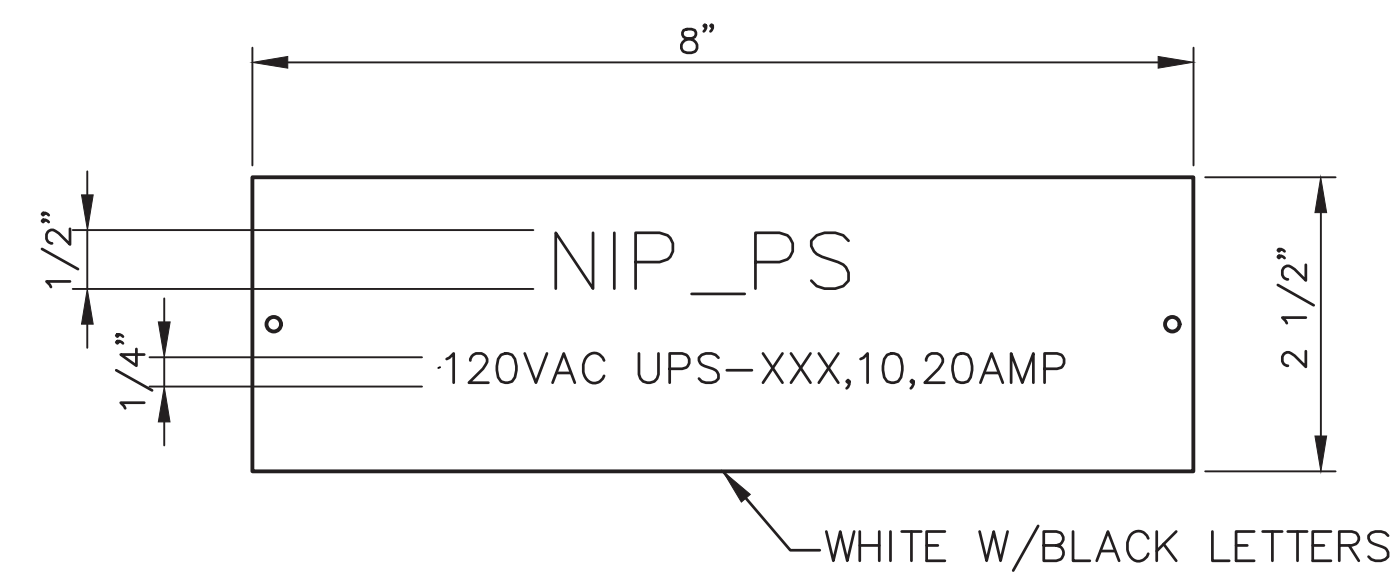


1 FRONT PANEL VIEW
I-04 NOT TO SCALE



2 INTERIOR PANEL VIEW
I-04 NOT TO SCALE

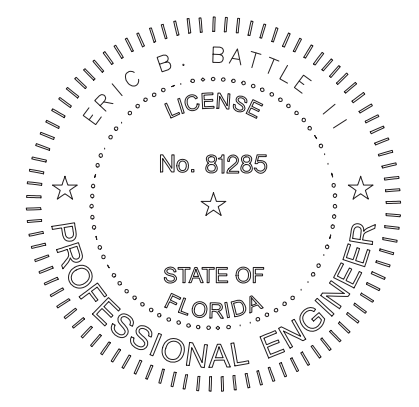
MATERIAL LIST	
ITEM	DESCRIPTION
1	NEMA 4X ENCLOSURE 36"X30"X12"
2	DATA POCKET
3	NAMEPLATE
4	LIGHT W/ INTRUSION SWITCH
5	BACK PANEL
6	SIERRA WIRELESS MODEM
7	ETHERNET SWITCH
8	AC POWER DISTRIBUTION
9	24VDC POWER SUPPLY
10	TERMINAL BLOCKS
11	PANEL UPS
12	FIREWALL
13	DIN RAIL
14	GRAY WIRE DUCT
15	WHITE WIRE DUCT
16	GROUND BAR
17	FIBER PATCH PANEL



3 NAMEPLATE DETAIL
I-04

GENERAL NOTES:

- ENCLOSURE DRAWING REPRESENTS DESIGN INTENT. CONTRACTOR TO SUPPLY AS-BUILT DRAWINGS SHOWING FINAL ENCLOSURE LAYOUT WITH ALL EQUIPMENT, MANUFACTURERS, AND PART NUMBERS. FABRICATOR MUST FOLLOW REQUIREMENTS AS DESIGNED AND SPECIFIC TO THE PROJECT.
- CONSTRUCT PANEL TO MEET THE FULL INTENT OF ARTICLE 409 OF THE NATIONAL ELECTRIC CODE.
- FOLLOW ALL UL 508 AND 508A SUPPLEMENT SB TO DETERMINE SHORT CIRCUIT ANALYSIS.
- CIRCUIT BREAKERS SHALL BE COORDINATED TO TRIP BRANCH CIRCUIT BREAKER PRIOR TO THE MAIN PANEL CIRCUIT BREAKER. QUANTITY OF CIRCUIT BREAKERS, TERMINAL BLOCKS SHOWN ARE REPRESENTATIVE PROVIDE QUANTITIES TO ACHIEVE FUNCTIONALITY SHOWN AND SPECIFIED.
- ALL TIE WRAPS SHALL BE LOCATED OUTSIDE OF THE WIRE DUCTS. INSTALLATION OF ALL NYLON TIE WRAPS SHALL BE TENSIONED AND TRIMMED FLUSH.
- NO 480VAC CIRCUITS SHALL TERMINATE IN OR PASS THROUGH CONTROL CABINETS.
- ALL CONDUIT PENETRATIONS SHALL BE LOCATED AT THE BOTTOM OF THE ENCLOSURE. NO TOP, SIDE, FRONT OR REAR PENETRATIONS ALLOWED. SEAL ALL CONDUITS USING GAS AND WATER TIGHT DUCT SEAL.
- ALL SIGNALS SHALL BE TERMINATED AND CLEARLY LABELED PRIOR TO LEAVING THE ENCLOSURE.
- ALL COMMUNICATION CABLES SHALL BE CLEARLY LABELED PRIOR TO LEAVING THE ENCLOSURE.
- UPS SHALL BE LOCATED INSIDE THE PANEL ON FLOOR OF PANEL. UPS LOCATION SHALL NOT CAUSE INTERFERENCE WITH OTHER HARDWARE IN THE PANEL.



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AND FM

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FILE NAME: I-04
DESIGNED BY: AKSHAYA SELVARAJ
DRAWN BY: ABHINAYA MURUGADASS
CHECKED BY: RALPH HARTMANN

SHEET TITLE

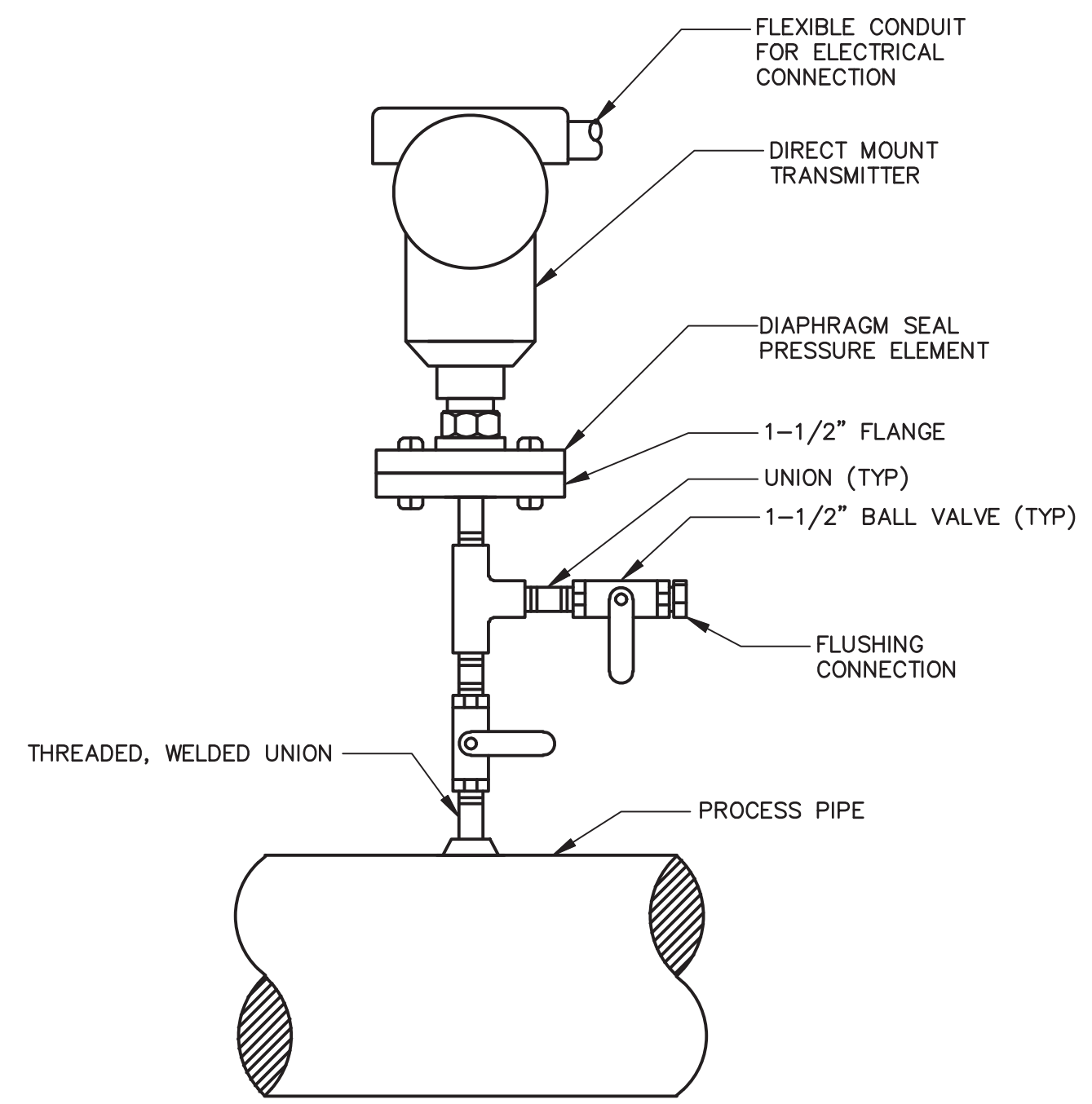
INSTRUMENTATION

NETWORK
INTERFACE
PANEL LAYOUT

SCALE:
NOT TO SCALE

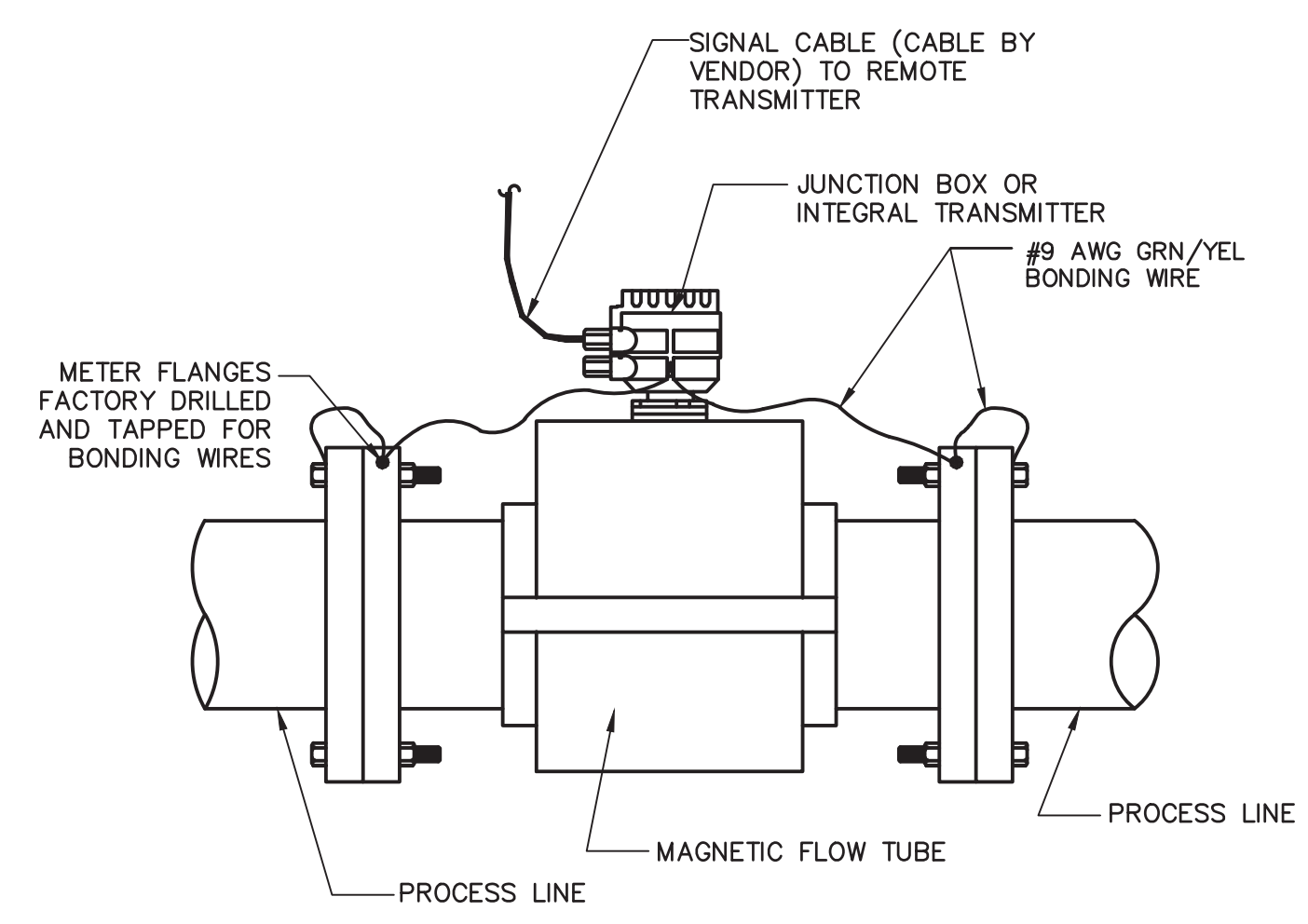
I-04
SHEET 57 OF 60

User: V02323, Spec: AUS-NCSMOD, File: C:\USERS\AUS-NCSMOD\Folder\HOME DEPOT LS AND FM\PROJECT FILES\0_MPN\INS\I-06.DWG, Scale: 1:1, SavedDate: 12/22/2025, Time: 19:26, Plot Date: V. Gobal, Nithresh, 12/22/2025, 19:27, Layout: I-06



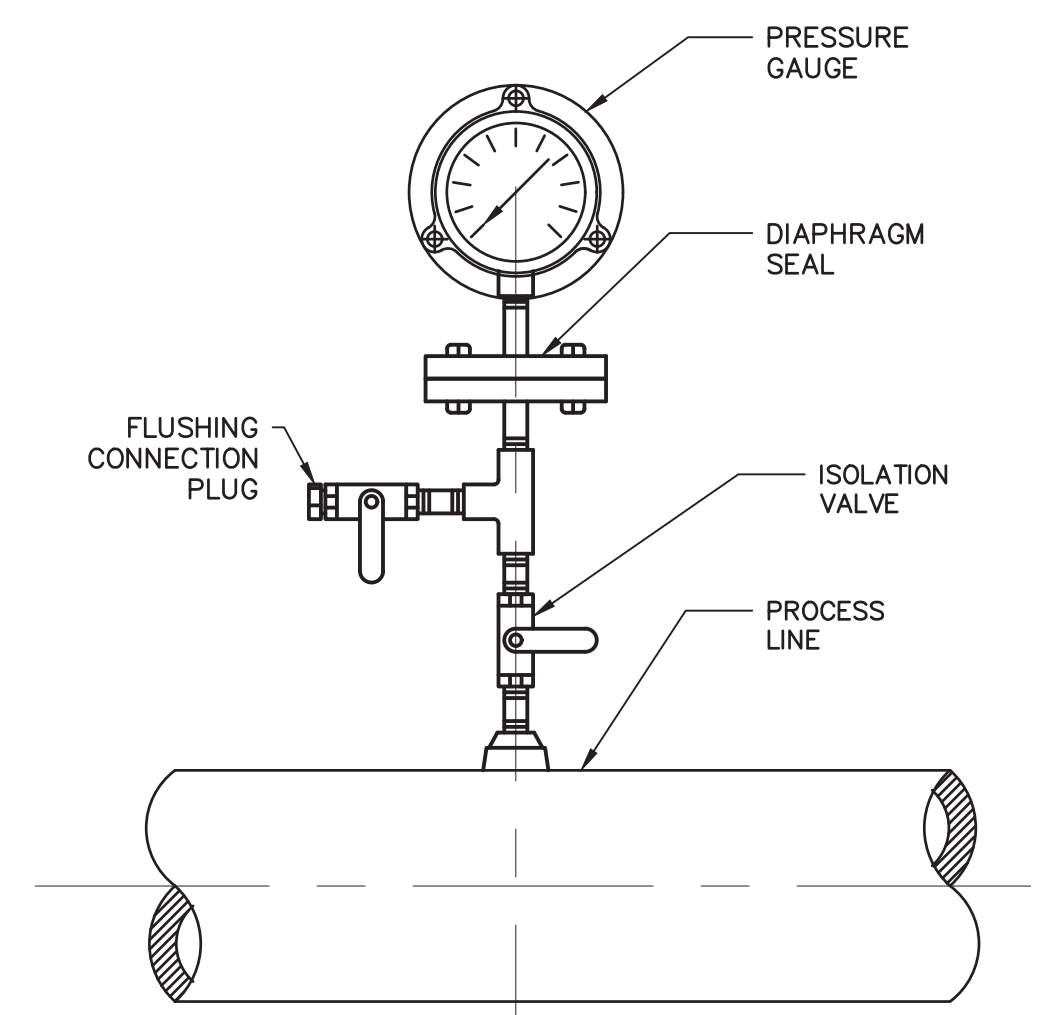
- NOTES:
- CONTRACTOR SHALL PROVIDE AND INSTALL NEW NEOPRENE GASKETS, NUTS, BOLTS AND WASHERS.
 - MATERIAL FOR ALL NUTS, BOLTS AND WASHERS SHALL BE ASTM A307, GRADE "A" WITH TRIPAC 2000 BLUE COATING SYSTEM.
 - BOLT QUANTITY AND SIZES SHALL BE VERIFIED AND COORDINATED WITH CONTRACTOR.

1 PRESSURE TRANSMITTER
I-06 NOT TO SCALE



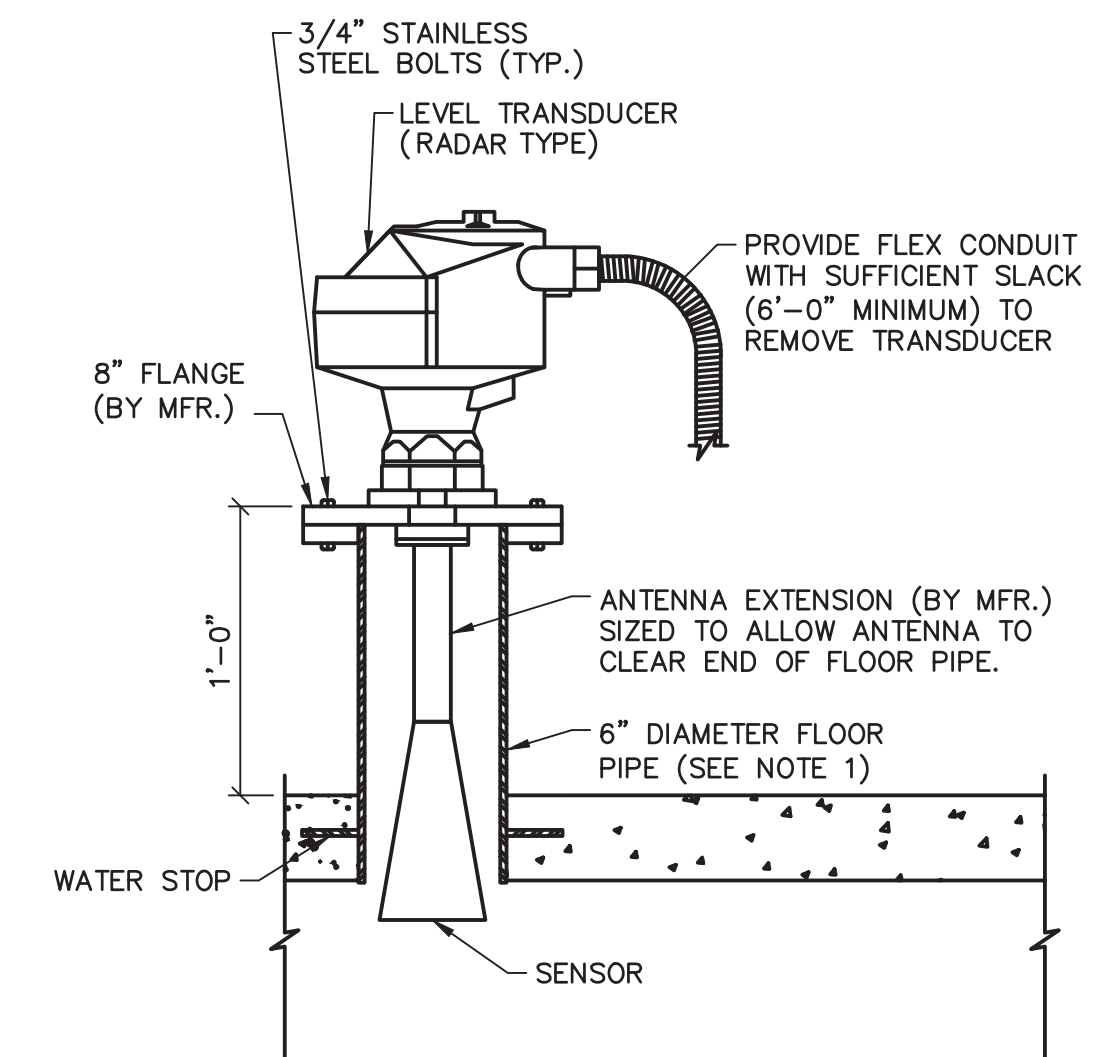
- NOTES:
- FLOW METER DETAIL SHOWN SHALL BE USED FOR BOTH ELECTRICALLY NON-CONDUCTIVE AND CONDUCTIVE TYPE PIPELINES.
 - BOND MAGNETIC FLOW METER TO ONE OF THE FOLLOWING ACCEPTABLE GROUNDS:
 - METALLIC WATER PIPE IF BURIED PORTION IS MORE THAN 10 FEET.
 - STRUCTURAL STEEL
 - REMOTE TRANSMITTER SHALL BE LOCATED IN A SUITABLE LOCATION. TRANSMITTER SHALL BE PEDESTAL MOUNTED OR WALL MOUNTED AS REQUIRED.
 - PROVIDE SURGE SUPPRESSOR ON OUTDOOR INSTALLATIONS.
 - GROUND WIRE SHALL BE NO. 12AWG INSULATED. IF LENGTH OF GROUND WIRE IS MORE THAN 6 FEET, INSTALL CONDUCTOR IN 3/4" CONDUIT.
 - PROVIDE POWER TO TRANSMITTER. POWER WIRING AND CONDUIT NOT SHOWN.
 - CONDUIT AND CABLING SHOWN FOR REPRESENTATIONAL PURPOSES ONLY. COORDINATE WITH APPROVED MANUFACTURER CONDUIT AND CABLING REQUIREMENTS.

2 MAGNETIC FLOW METER
I-06 NOT TO SCALE



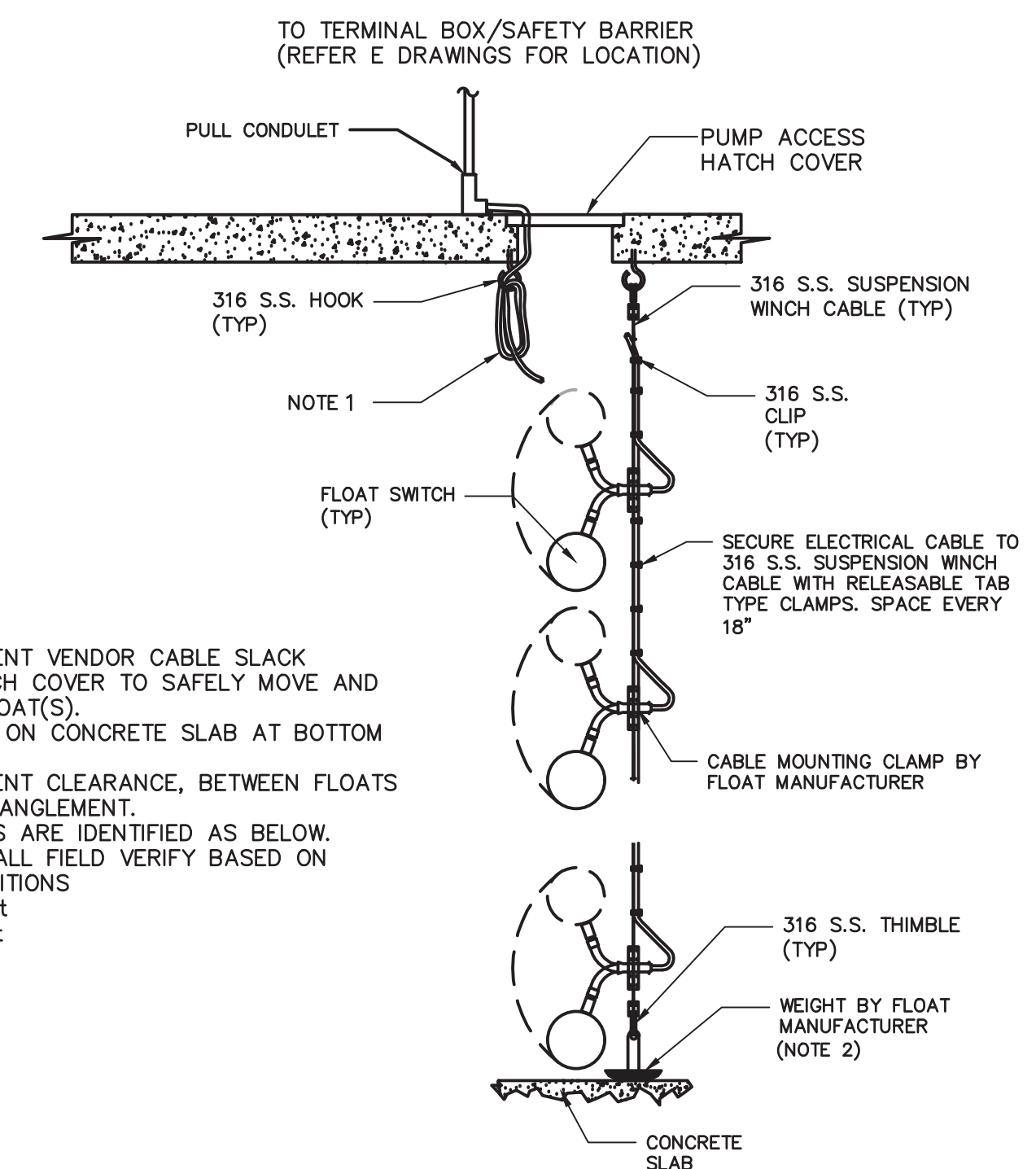
- NOTES:
- PROVIDE HARDWARE AND APPURTENANCES TO FULLY SUPPORT GAUGE INSTALLATION.

3 PRESSURE GAUGE
I-06 NOT TO SCALE



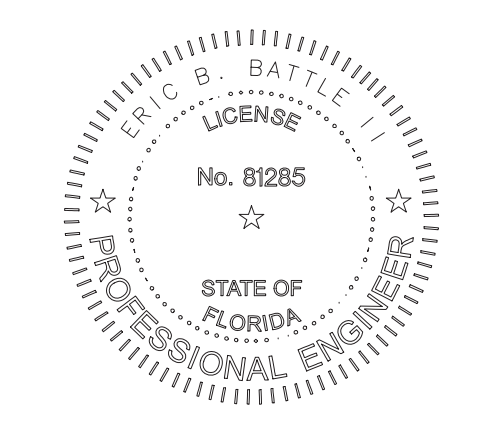
- NOTES:
- PROVIDE STAINLESS STEEL FLANGE PLATE 3/8" THICK WITH HOLES TO M8 FLANGE (BY MFR.). WELD FLANGE PLATE TO 6" DIAMETER FLOOR PIPE.

4 RADAR LEVEL TRANSMITTER
I-06 NOT TO SCALE



- NOTES:
- PROVIDE SUFFICIENT VENDOR CABLE SLACK BELOW THE HATCH COVER TO SAFELY MOVE AND POSITION THE FLOAT(S).
 - WEIGHT TO REST ON CONCRETE SLAB AT BOTTOM OF WET WELL.
 - PROVIDE SUFFICIENT CLEARANCE, BETWEEN FLOATS TO PREVENT ENTANGLEMENT.
 - FLOAT LOCATIONS ARE IDENTIFIED AS BELOW. CONTRACTOR SHALL FIELD VERIFY BASED ON OPERATING CONDITIONS
LSH 1001-5.25 ft
LS1 1001-3.05 ft
LSL 1001-0.5 ft

5 FLOAT SWITCH
I-06 NOT TO SCALE



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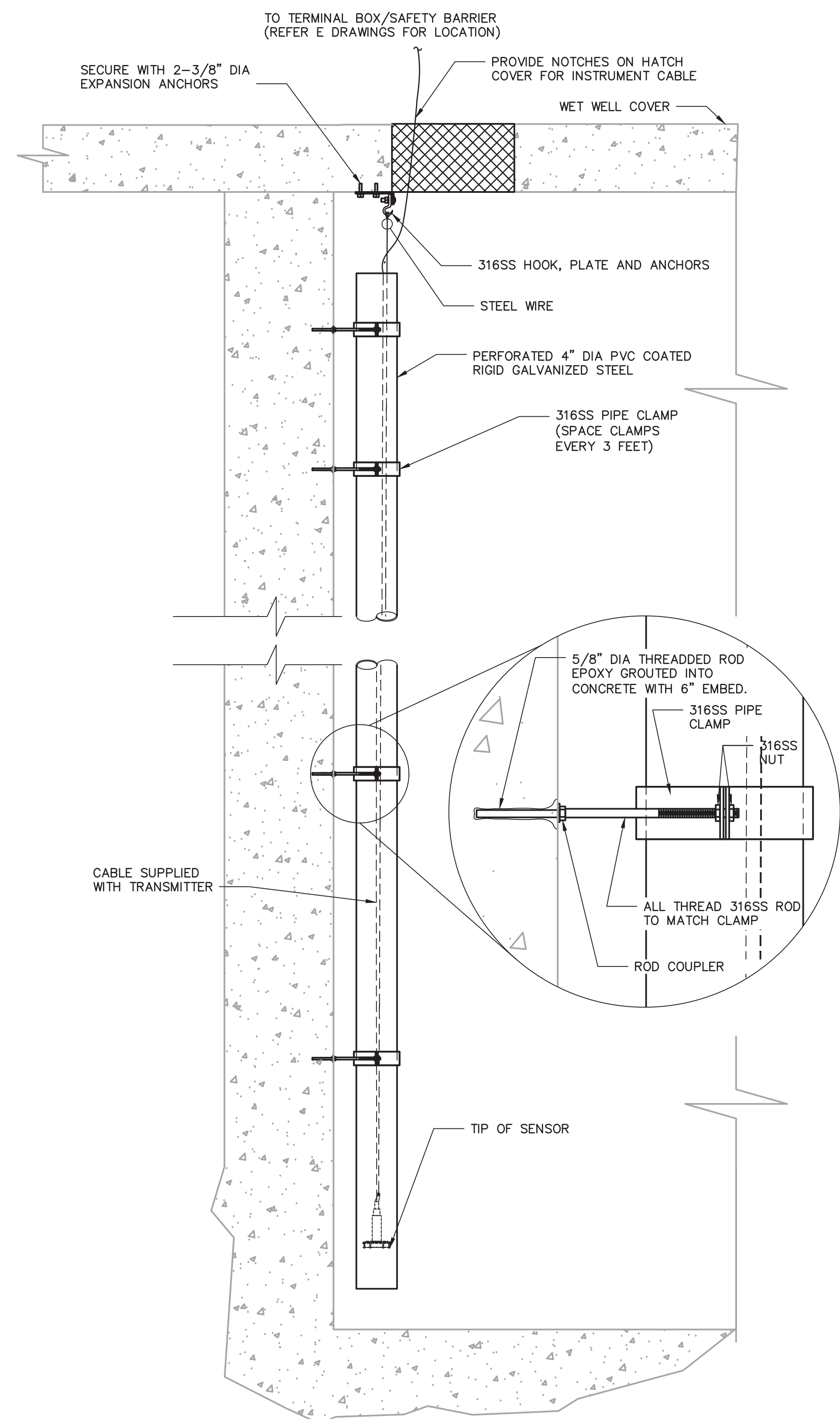
DATE: DECEMBER 2025
PROJECT NO.: 30036073
FILE NAME: I-06
DESIGNED BY: AKSHAYA SELVARAJ
DRAWN BY: RATAN RAVINDRA SHENOY
CHECKED BY: RALPH HARTMANN

SHEET TITLE

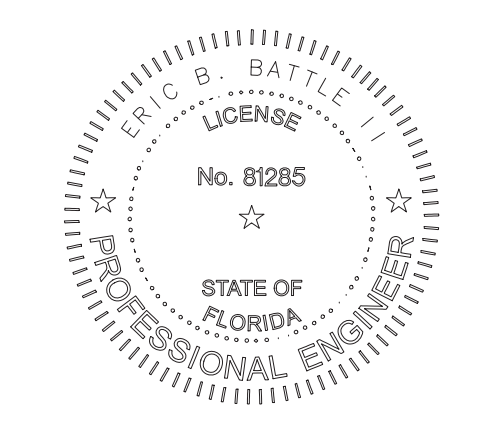
INSTRUMENTATION
**INSTRUMENTS
INSTALLATION
DETAILS
(SHEET 1 OF 2)**

SCALE: NOT TO SCALE

User: V02323 Spe: AUS-NCSMOD File: C:\Users\AUS-NCSMOD\Files\C:\Users\AUS-NCSMOD\Files\PROJECT FILES\0_MIP\WS\1-07.DWG Scale: 1:1 SavedDate: 12/22/2025 Time: 19:26 Plot Date: V. Gobal Nitheesh; 12/22/2025; 19:27; Layout: 1-07



6 SUBMERSIBLE PRESSURE TRANSDUCER
1-07 NOT TO SCALE



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FILE NAME: I-07
DESIGNED BY: AKSHAYA SELVARAJ
DRAWN BY: ABHINAYA MURUGADASS
CHECKED BY: RALPH HARTMANN

SHEET TITLE

INSTRUMENTATION

**INSTRUMENTS
INSTALLATION
DETAILS
(SHEET 2 OF 2)**

SCALE: NOT TO SCALE

I-07
SHEET 60 OF 60