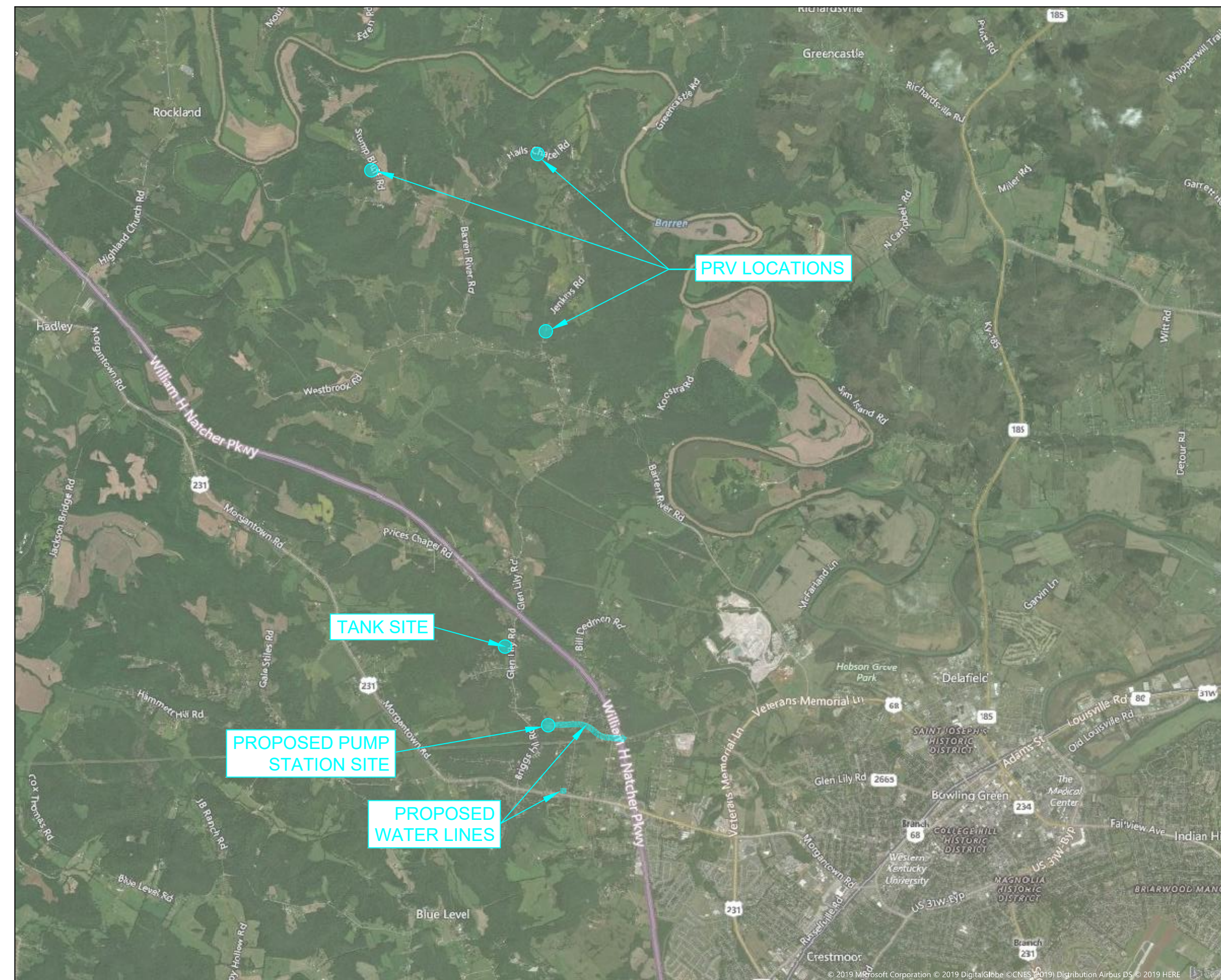


MORGANTOWN ROAD AREA IMPROVEMENTS - CONTRACT 1

INDEX OF DRAWINGS



PROJECT VICINITY MAP
(N.T.S.)



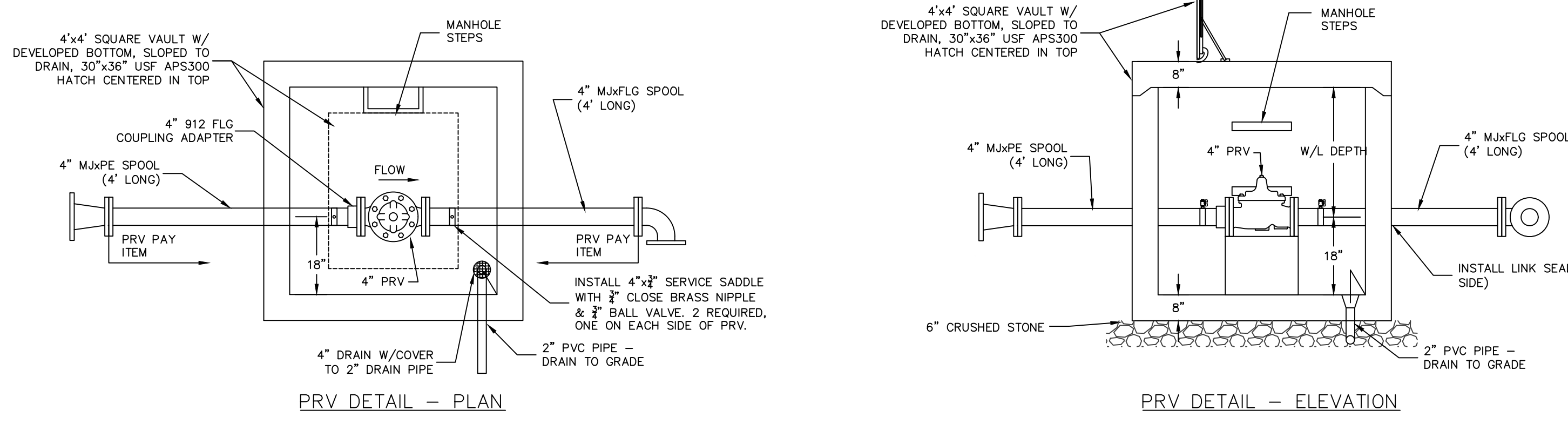
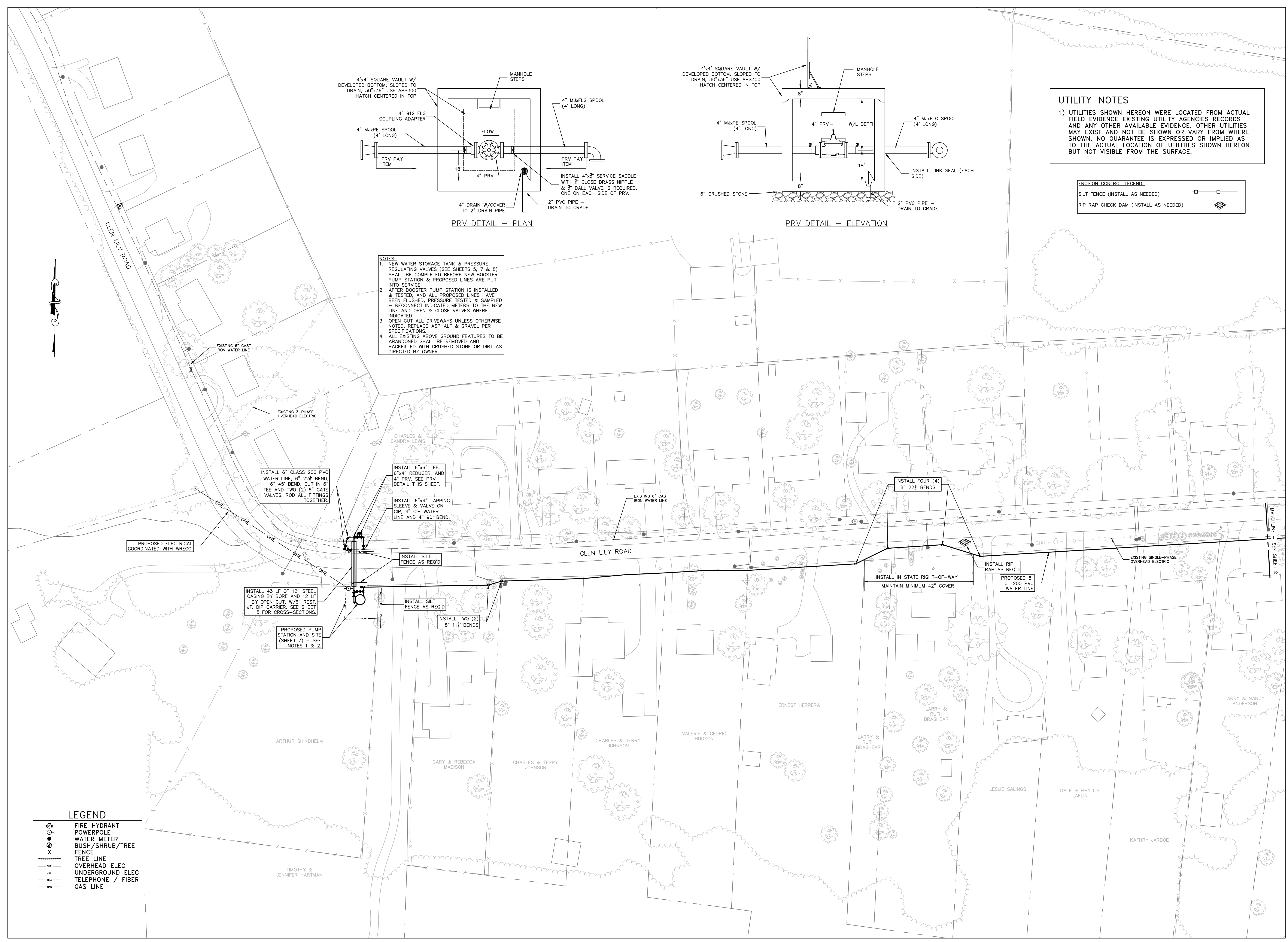
**Warren County
Water District**



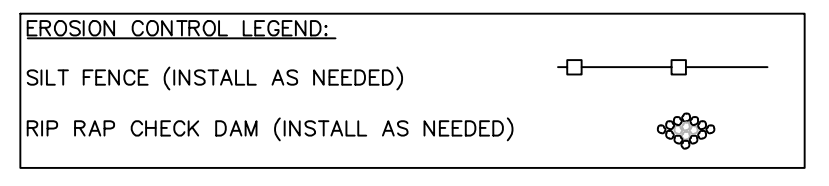
<u>SHEET #</u>	<u>DESCRIPTION</u>
1	GLEN LILY ROAD STA. 0+00 TO STA. 11+10 (8" LINE) 6" CONNECTION WITH 4" PRV
2	GLEN LILY ROAD STA. 11+10 TO STA. 26+85
3	GLEN LILY ROAD STA. 26+85 TO STA. END
4	W. VILLA DRIVE STA. 0+00 TO END
5	HIGHWAY & ROAD CROSSINGS CROSS-SECTIONS
6	2" PRV LOCATIONS SITES & DETAILS
7	BOOSTER PUMP STATION SITE & DETAILS
8	WATER STORAGE TANK SITE PLAN
9	WATER STORAGE TANK DETAILS
WD	WATER DETAIL SHEET
ECD	EROSION CONTROL DETAIL SHEET

523 US Hwy 31-W Bypass / P.O. Box 10180
Bowling Green, KY 42102-4780
TEL 270.842.0052
FAX 270.842.8360
www.warrenwater.com

SET # _____



UTILITY NOTES
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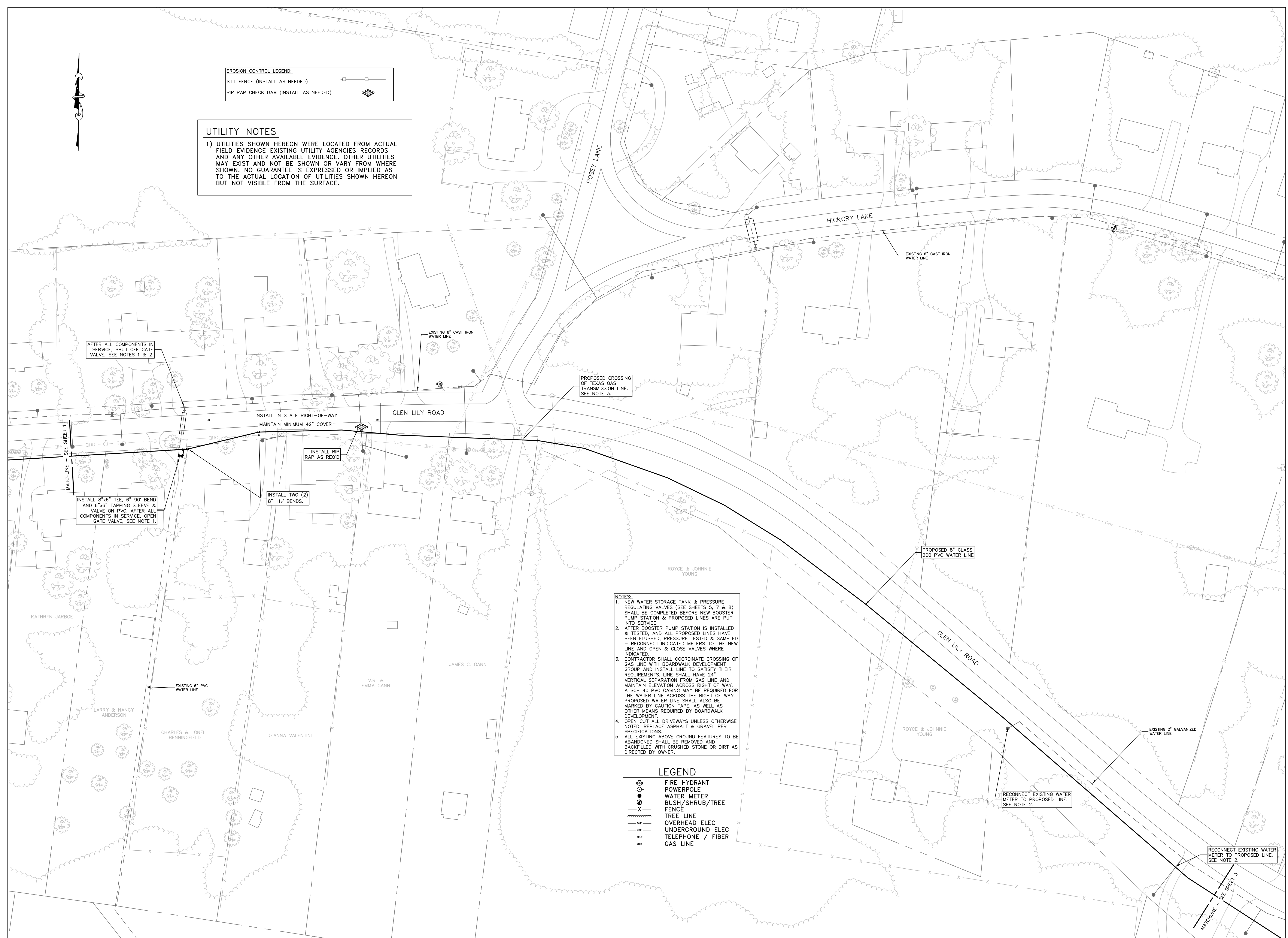


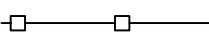

- NOTES:**
1. NEW WATER STORAGE TANK & PRESSURE REGULATING VALVES (SEE SHEETS 5, 7 & 8) SHALL BE COMPLETED BEFORE NEW BOOSTER PUMP STATION & PROPOSED LINES ARE PUT INTO SERVICE.
 2. AFTER BOOSTER PUMP STATION IS INSTALLED & TESTED, AND ALL PROPOSED LINES HAVE BEEN FLUSHED, PRESSURE TESTED & SAMPLED - RECONNECT INDICATED METERS TO THE NEW LINE, AND OPEN & CLOSE VALVES WHERE INDICATED.
 3. OPEN CUT ALL DRIVEWAYS UNLESS OTHERWISE NOTED, REPLACE ASPHALT & GRAVEL PER SPECIFICATIONS.
 4. ALL EXISTING ABOVE GROUND FEATURES TO BE ABANDONED SHALL BE REMOVED AND BACKFILLED WITH CRUSHED STONE OR DIRT AS DIRECTED BY OWNER.

- LEGEND**
- FIRE HYDRANT
 - POWERPOLE
 - WATER METER
 - BUSH/SHRUB/TREE
 - FENCE
 - TREE LINE
 - OVERHEAD ELEC
 - UNDERGROUND ELEC
 - TELEPHONE / FIBER
 - GAS LINE

REVISIONS:

NO.: DATE:



EROSION CONTROL LEGEND:
 SILT FENCE (INSTALL AS NEEDED) 
 RIP RAP CHECK DAM (INSTALL AS NEEDED) 

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AFTER ALL COMPONENTS IN SERVICE, SHUT OFF GATE VALVE, SEE NOTES 1 & 2.

INSTALL 8"x6" TEE, 6" 90° BEND AND 6"x6" TAPPING SLEEVE & VALVE ON PVC. AFTER ALL COMPONENTS IN SERVICE, OPEN GATE VALVE, SEE NOTE 1.

INSTALL TWO (2) 8" 11 1/2' BENDS.

INSTALL IN STATE RIGHT-OF-WAY MAINTAIN MINIMUM 42" COVER

INSTALL RIP RAP AS REQ'D











PROPOSED CROSSING OF TEXAS GAS TRANSMISSION LINE, SEE NOTE 3.

PROPOSED 8" CLASS 200 PVC WATER LINE

RECONNECT EXISTING WATER METER TO PROPOSED LINE, SEE NOTE 2.

RECONNECT EXISTING WATER METER TO PROPOSED LINE, SEE NOTE 3.

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 3. CONTRACTOR SHALL COORDINATE CROSSING OF GAS LINE WITH BOARDWALK DEVELOPMENT GROUP AND INSTALL LINE TO SATISFY THEIR REQUIREMENTS. LINE SHALL HAVE 24" VERTICAL SEPARATION FROM GAS LINE AND MAINTAIN ELEVATION ACROSS RIGHT OF WAY. A SCH 40 PVC CASING MAY BE REQUIRED FOR THE WATER LINE ACROSS THE RIGHT OF WAY. PROPOSED WATER LINE SHALL ALSO BE MARKED BY CAUTION TAPE, AS WELL AS OTHER MEANS REQUIRED BY BOARDWALK DEVELOPMENT.
 4. OPEN CUT ALL DRIVEWAYS UNLESS OTHERWISE NOTED, REPLACE ASPHALT & GRAVEL PER SPECIFICATIONS.
 5. ALL EXISTING ABOVE GROUND FEATURES TO BE ABANDONED SHALL BE REMOVED AND BACKFILLED WITH CRUSHED STONE OR DIRT AS DIRECTED BY OWNER.

LEGEND
 FIRE HYDRANT
 POWERPOLE
 WATER METER
 BUSH/SHRUB/TREE
 FENCE
 TREE LINE
 OVERHEAD ELEC
 UNDERGROUND ELEC
 TELEPHONE / FIBER
 GAS LINE



REVISIONS:

NO.: DATE:

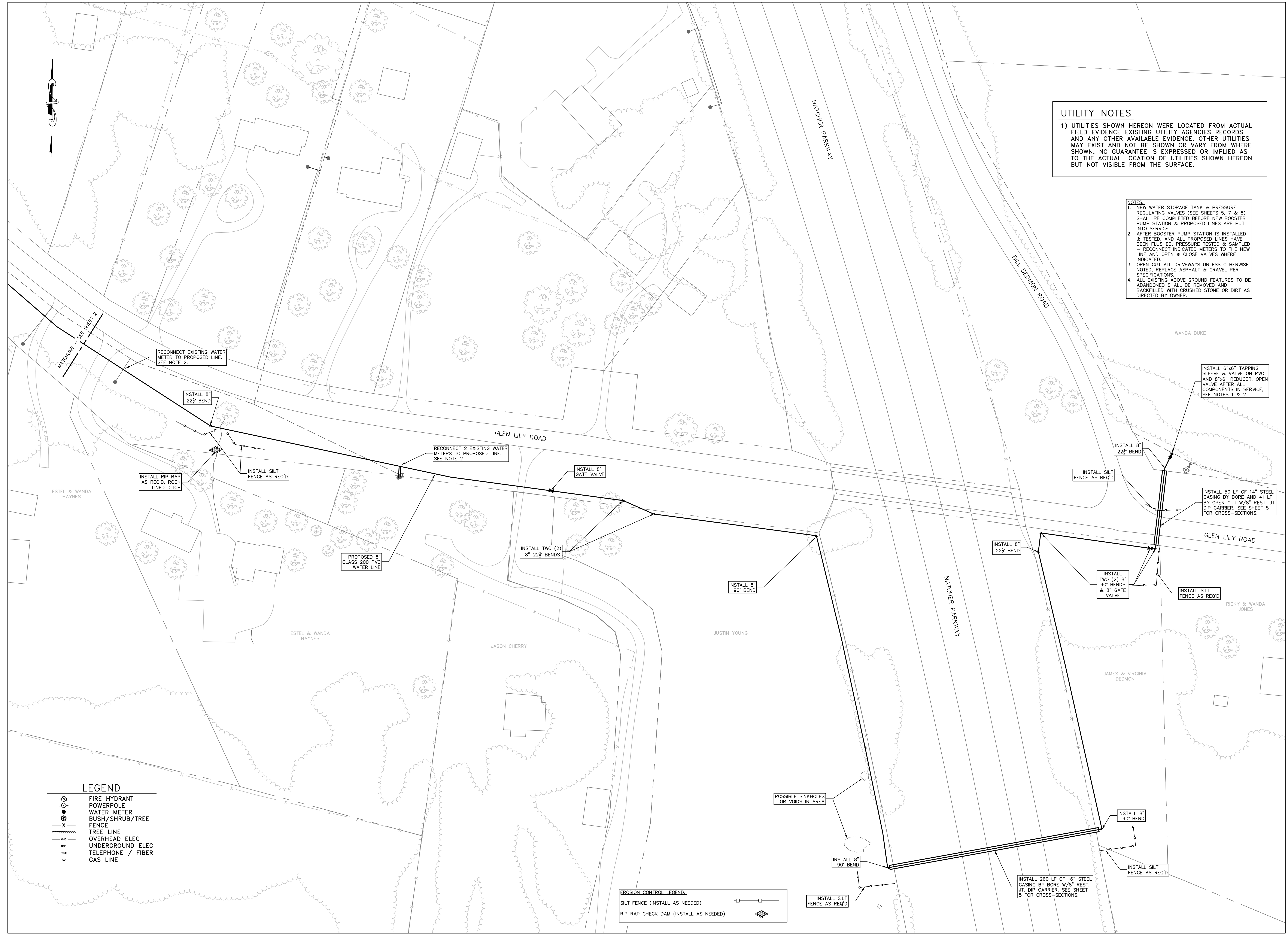


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LEGEND

- ⊙ FIRE HYDRANT
- POWERPOLE
- WATER METER
- ⊕ BUSH / SHRUB / TREE
- X- FENCE
- TREE LINE
- OVERHEAD ELEC
- UNDERGROUND ELEC
- TELEPHONE / FIBER
- GAS LINE

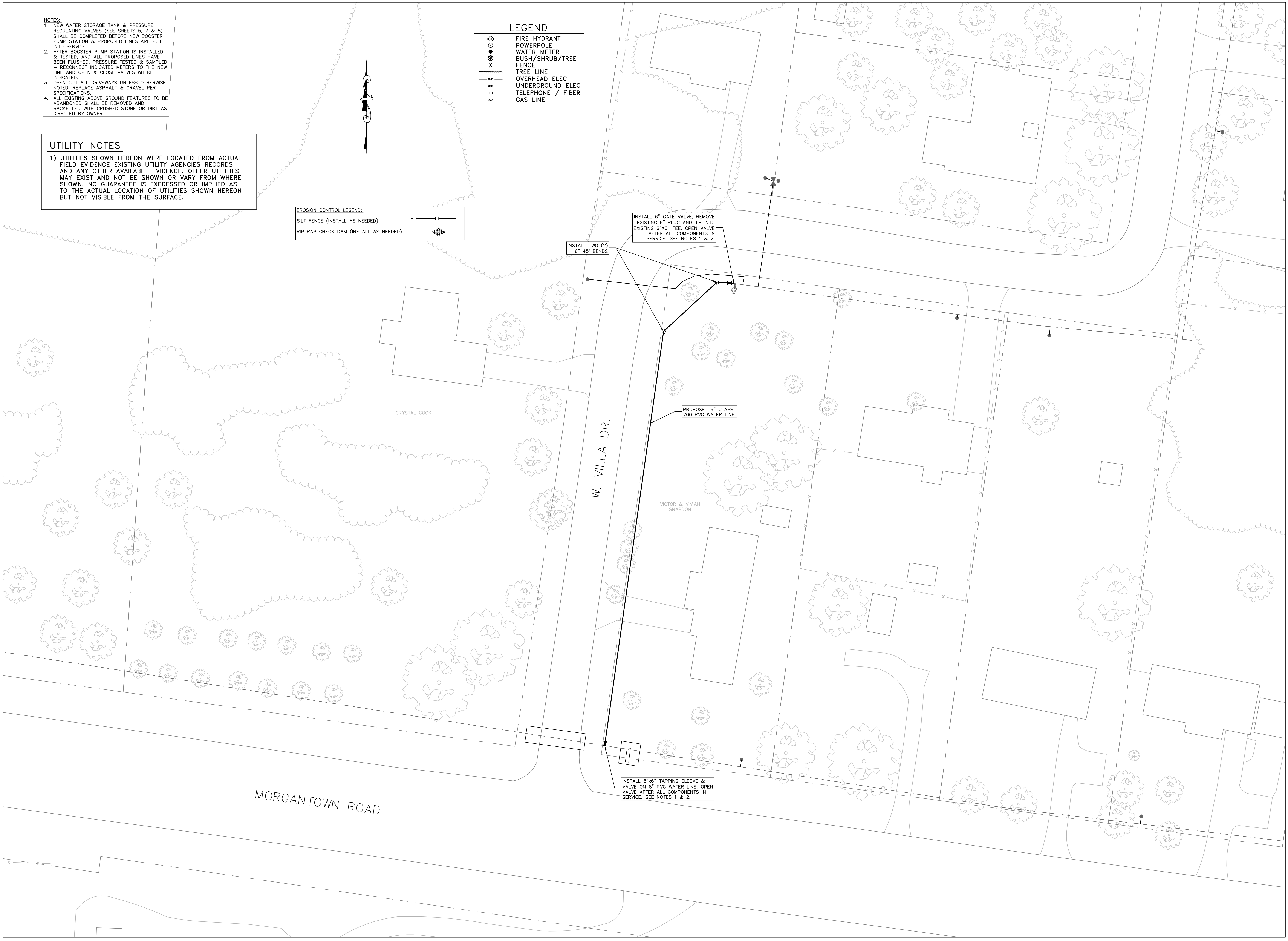
- EROSION CONTROL LEGEND:
- SILT FENCE (INSTALL AS NEEDED)
 - RIP RAP CHECK DAM (INSTALL AS NEEDED)

NOTES:
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EROSION CONTROL LEGEND:
 SILT FENCE (INSTALL AS NEEDED) [Symbol]
 RIP RAP CHECK DAM (INSTALL AS NEEDED) [Symbol]

LEGEND
 FIRE HYDRANT [Symbol]
 POWERPOLE [Symbol]
 WATER METER [Symbol]
 BUSH/SHRUB/TREE FENCE [Symbol]
 TREE LINE [Symbol]
 OVERHEAD ELEC [Symbol]
 UNDERGROUND ELEC [Symbol]
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 GAS LINE [Symbol]

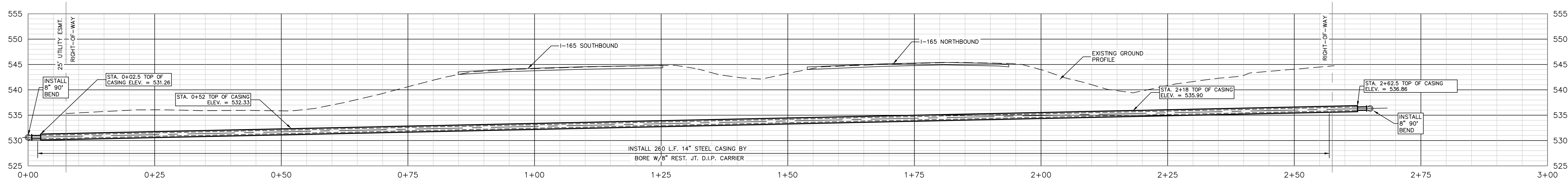


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 DATE: 12/19/19
 PROJECT #: 346992
 DESIGNED: JNL
 DRAWN: JNL
 CHECKED: RJL

REVISIONS:

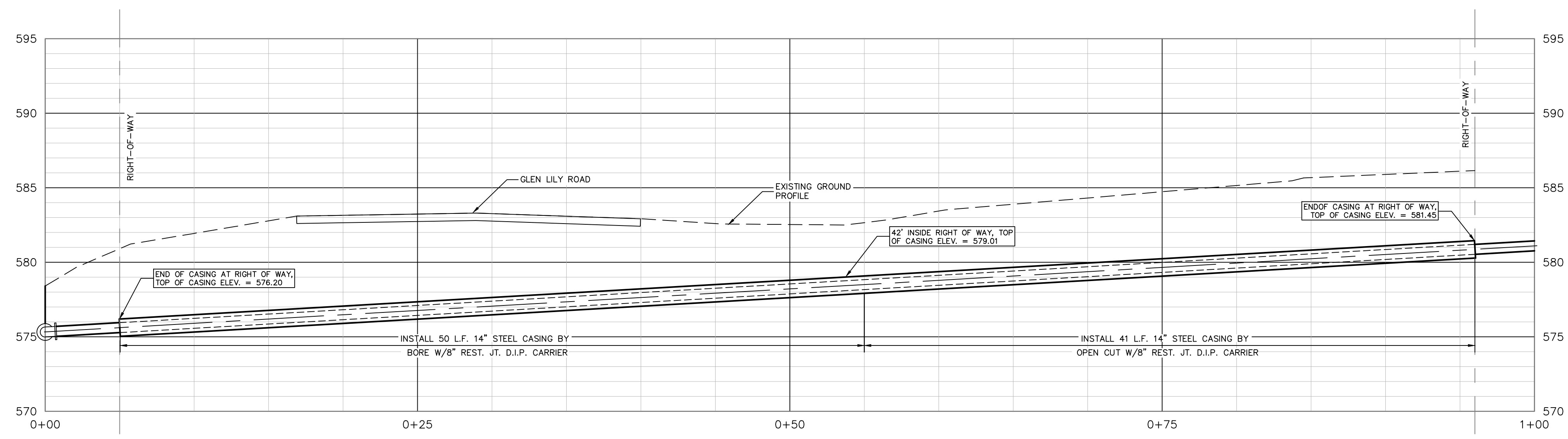
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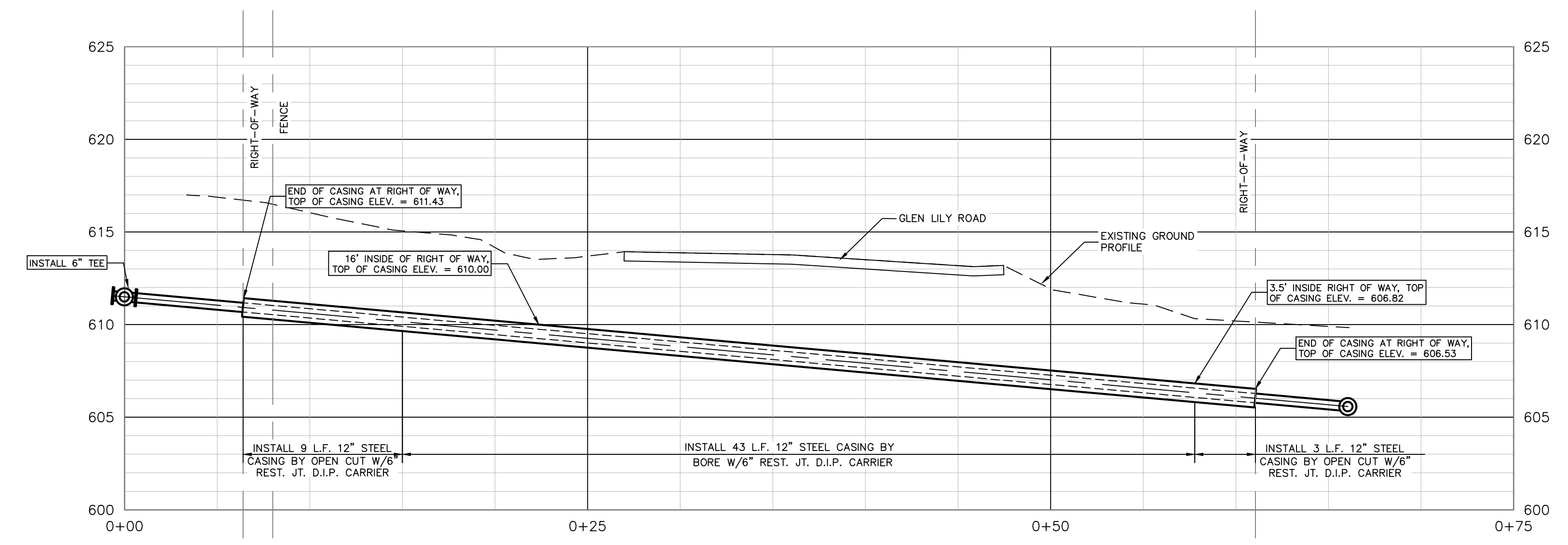


CROSS SECTION I-165
(SCALE 1"=10', SEE SHEET 3 FOR PLAN VIEW)

NOTES:
1) MAINTAIN MINIMUM OF 42" DEPTH TO TOP OF CASING AND / OR PIPE ACROSS STATE RIGHT-OF-WAY.
2) NO CONSTRUCTION ACTIVITY PERMITTED ON STATE RIGHT-OF-WAY FOR CONTROLLED ACCESS HIGHWAYS.



CROSS SECTION GLEN LILY RD. @ BILL DEDMON RD.
(SCALE 1"=5', SEE SHEET 3 FOR PLAN VIEW)

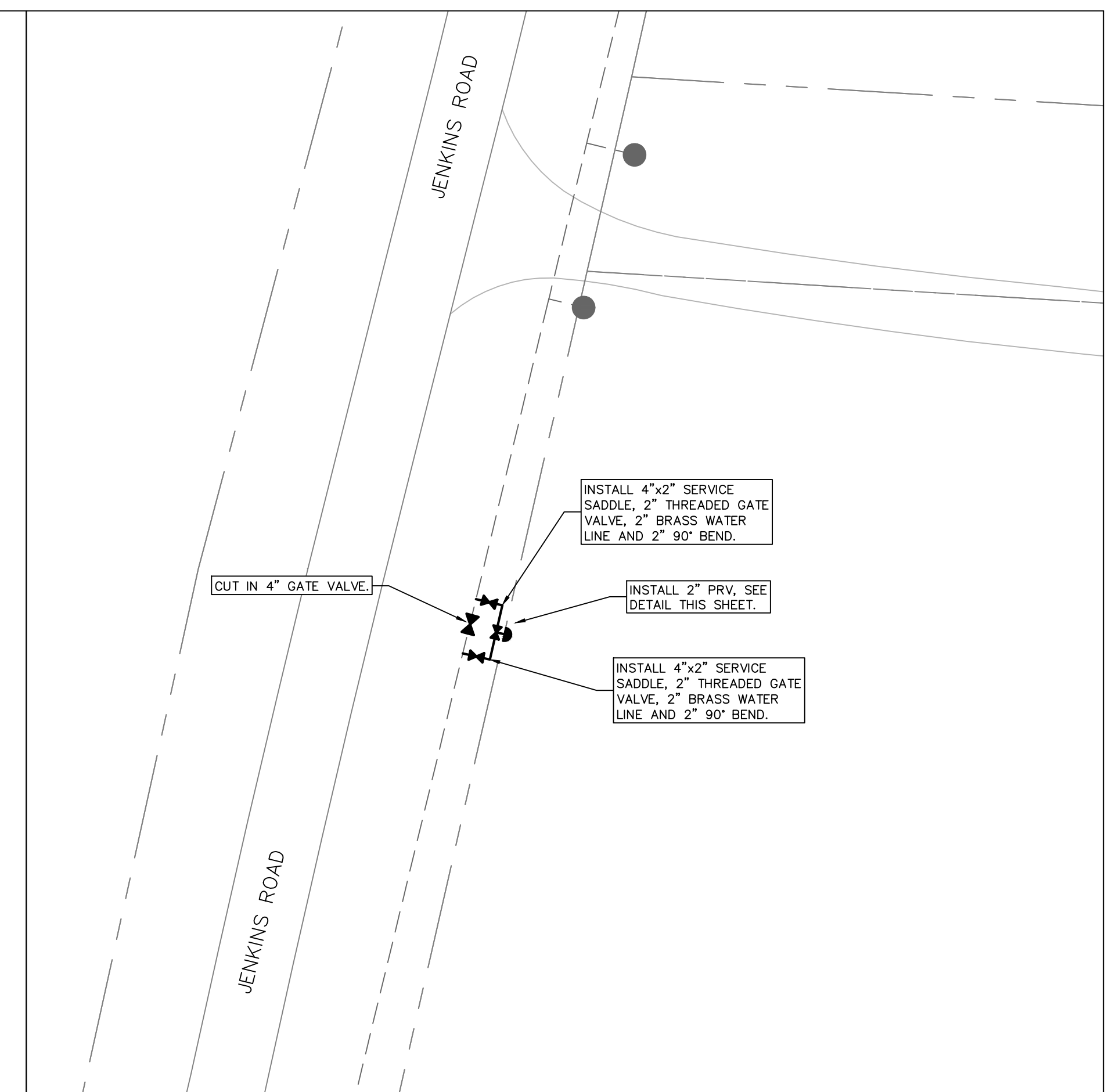
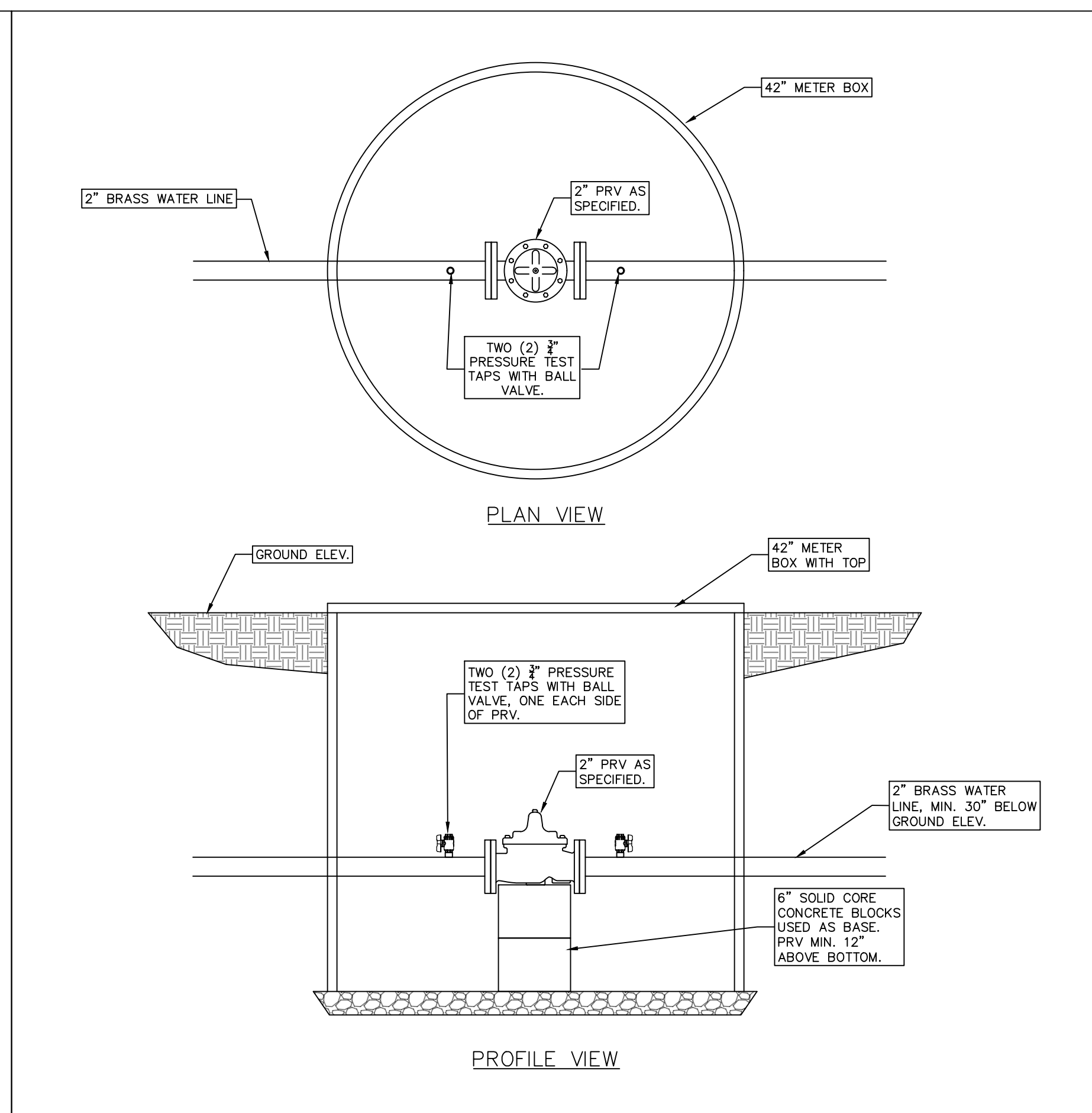
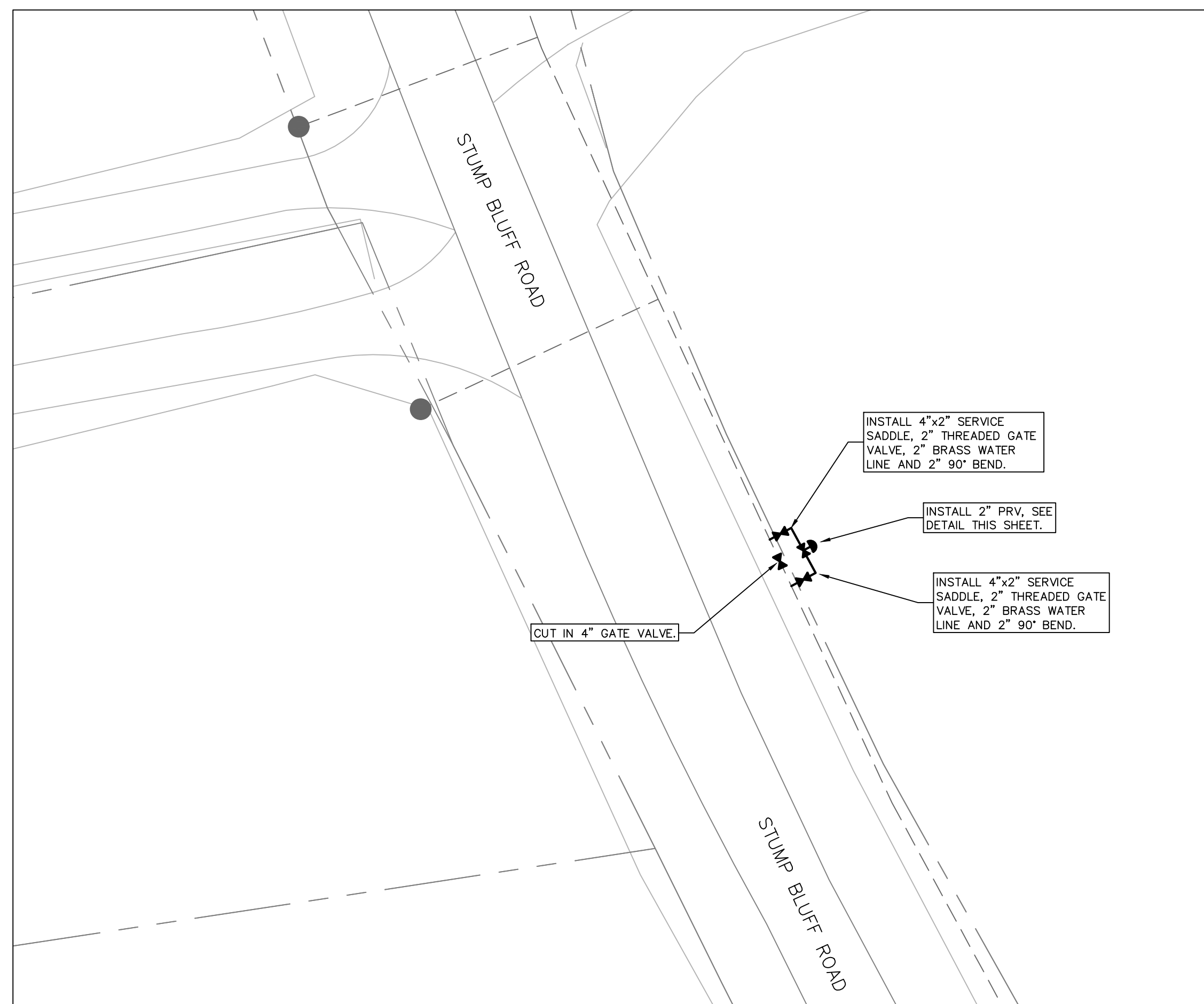
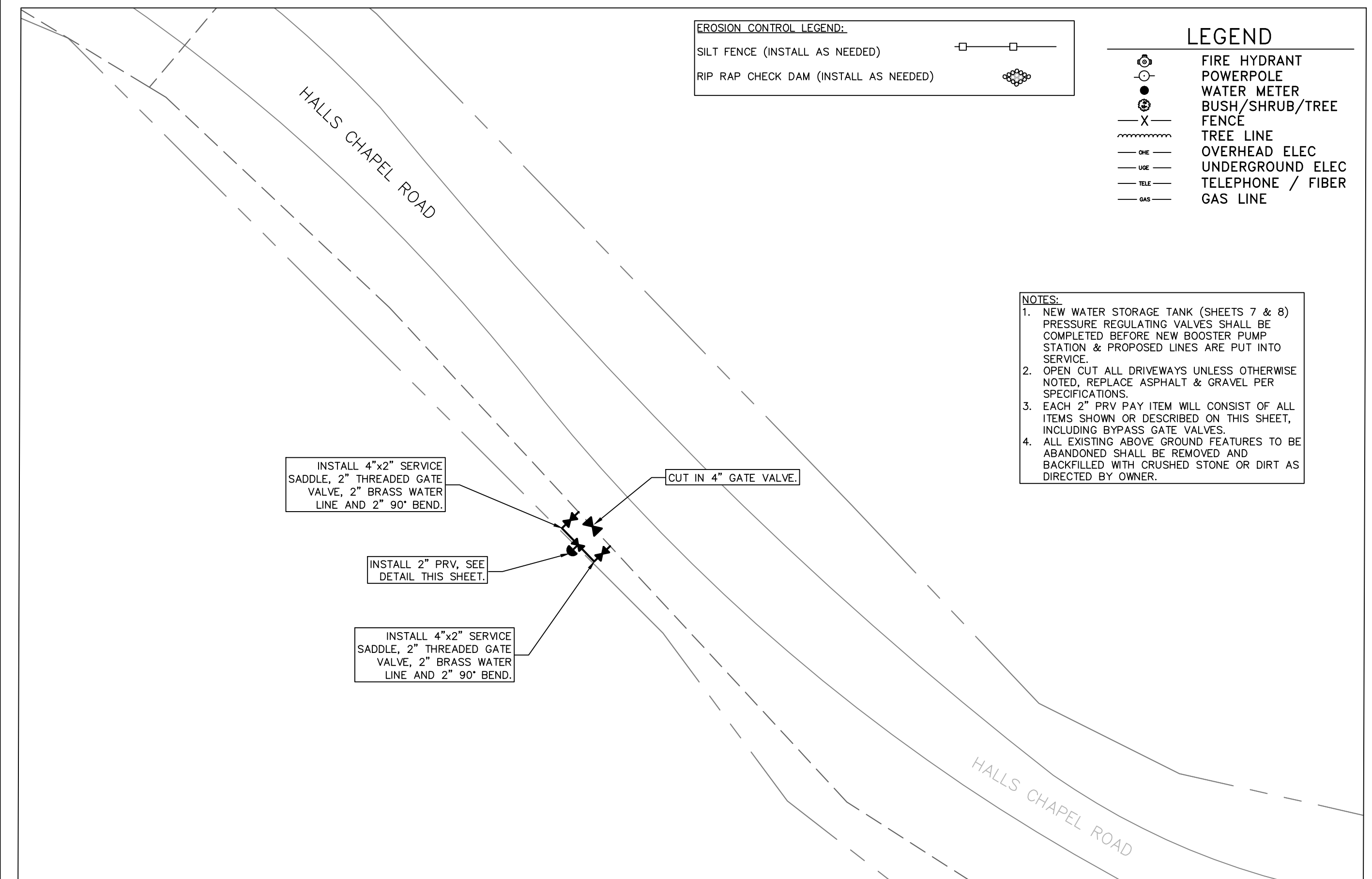
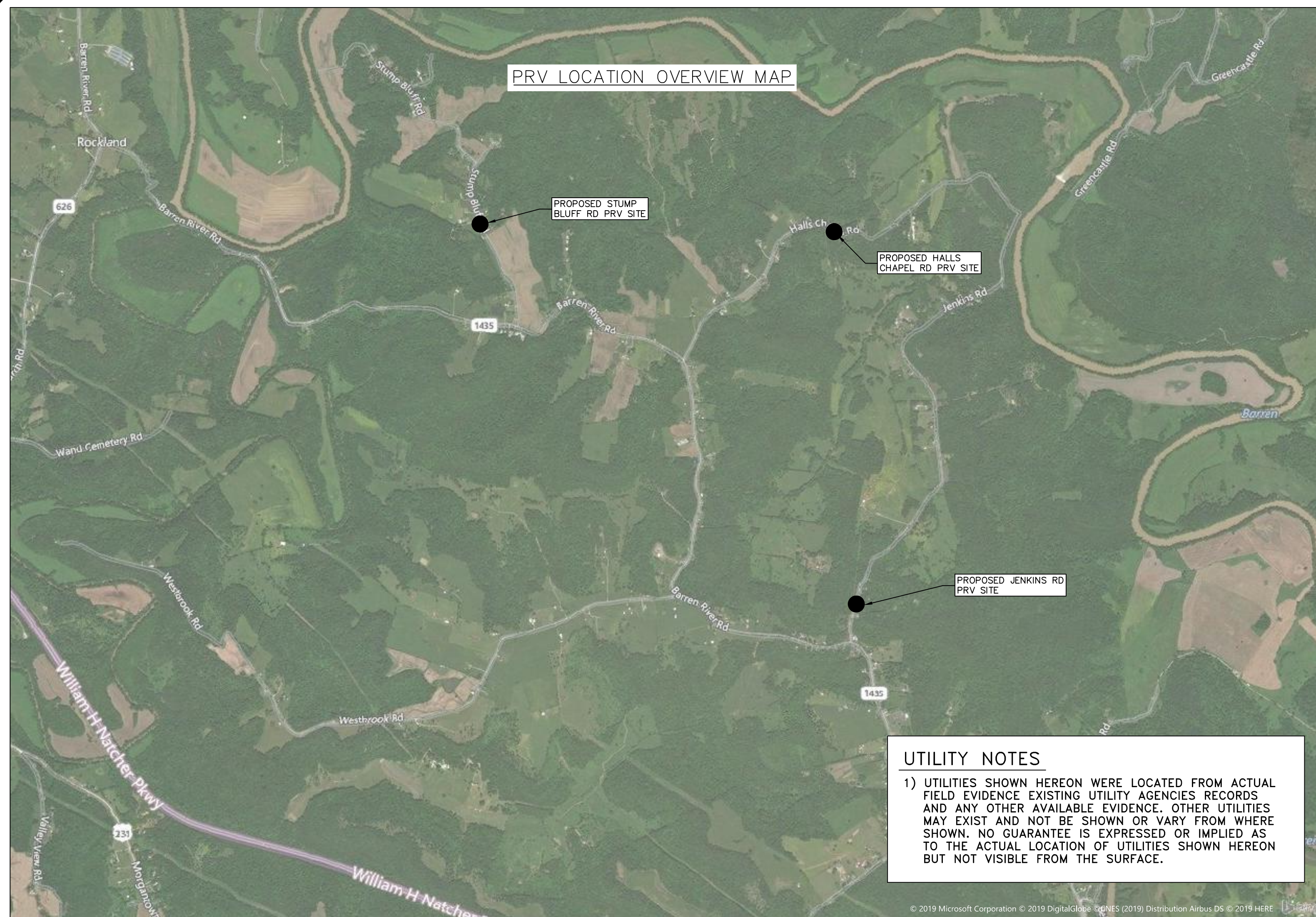


CROSS SECTION GLEN LILY RD. @ PUMP STATION
(SCALE 1"=5', SEE SHEET 1 FOR PLAN VIEW)

SCALE:	AS NOTED
DATE:	12/19/19
PROJECT #:	346992
DESIGNED:	JNL
DRAWN:	JNL
CHECKED:	RJL

REVISIONS:	
NO.:	DATE:





SCALE: NTS

DATE: 12/19/19

PROJECT #: 346992

DESIGNED: JNL

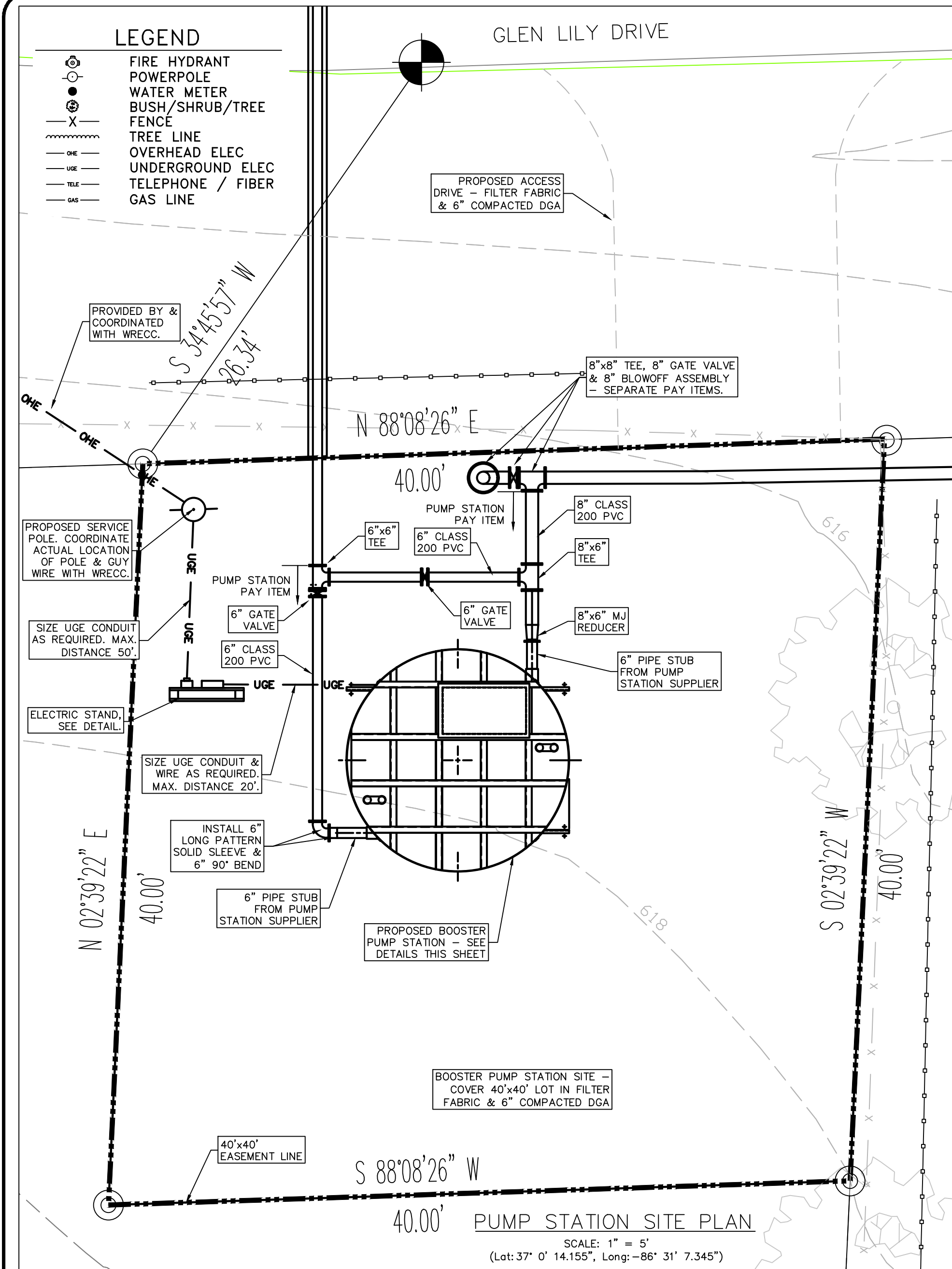
DRAWN: JNL

CHECKED: RJL

REVISIONS:

NO.:	DATE:





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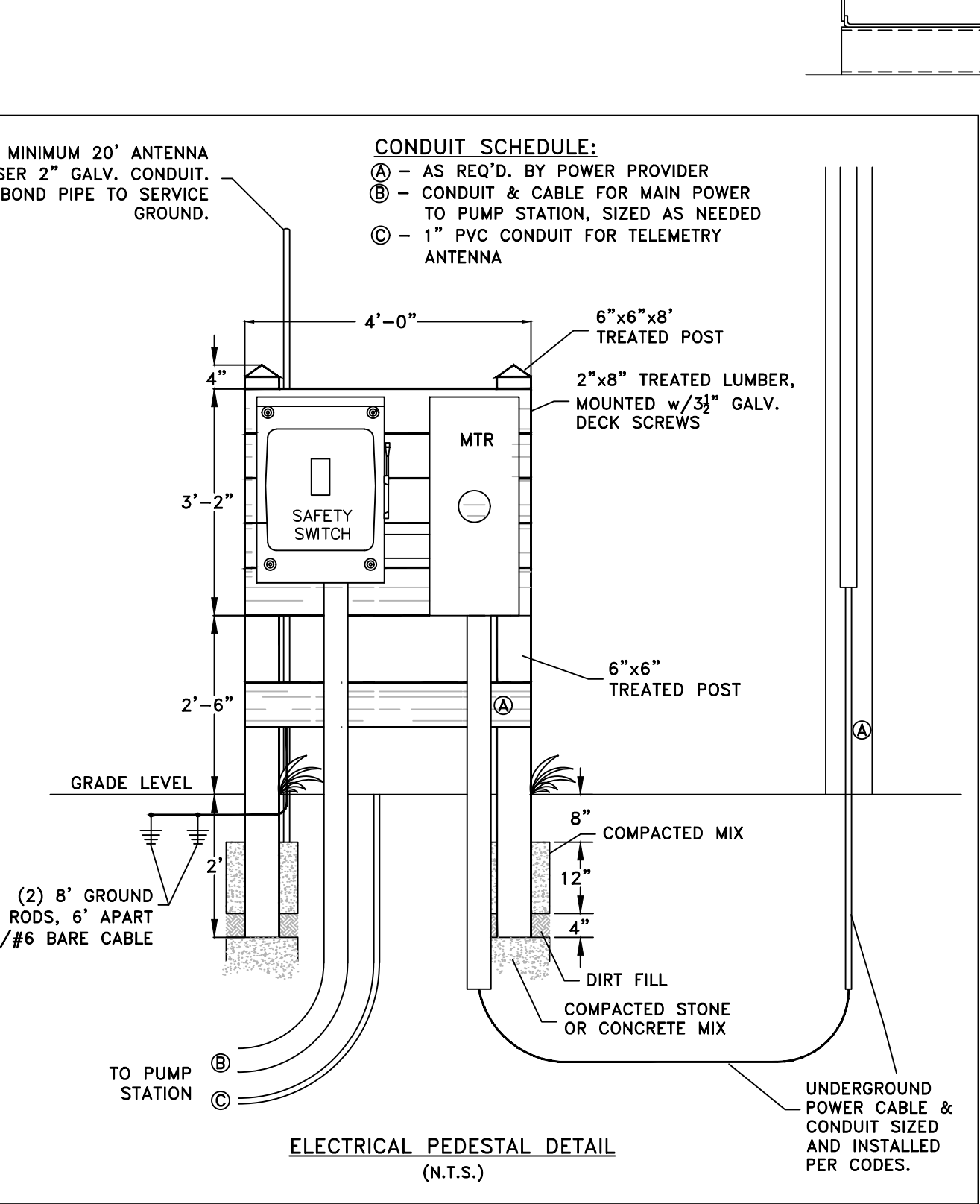
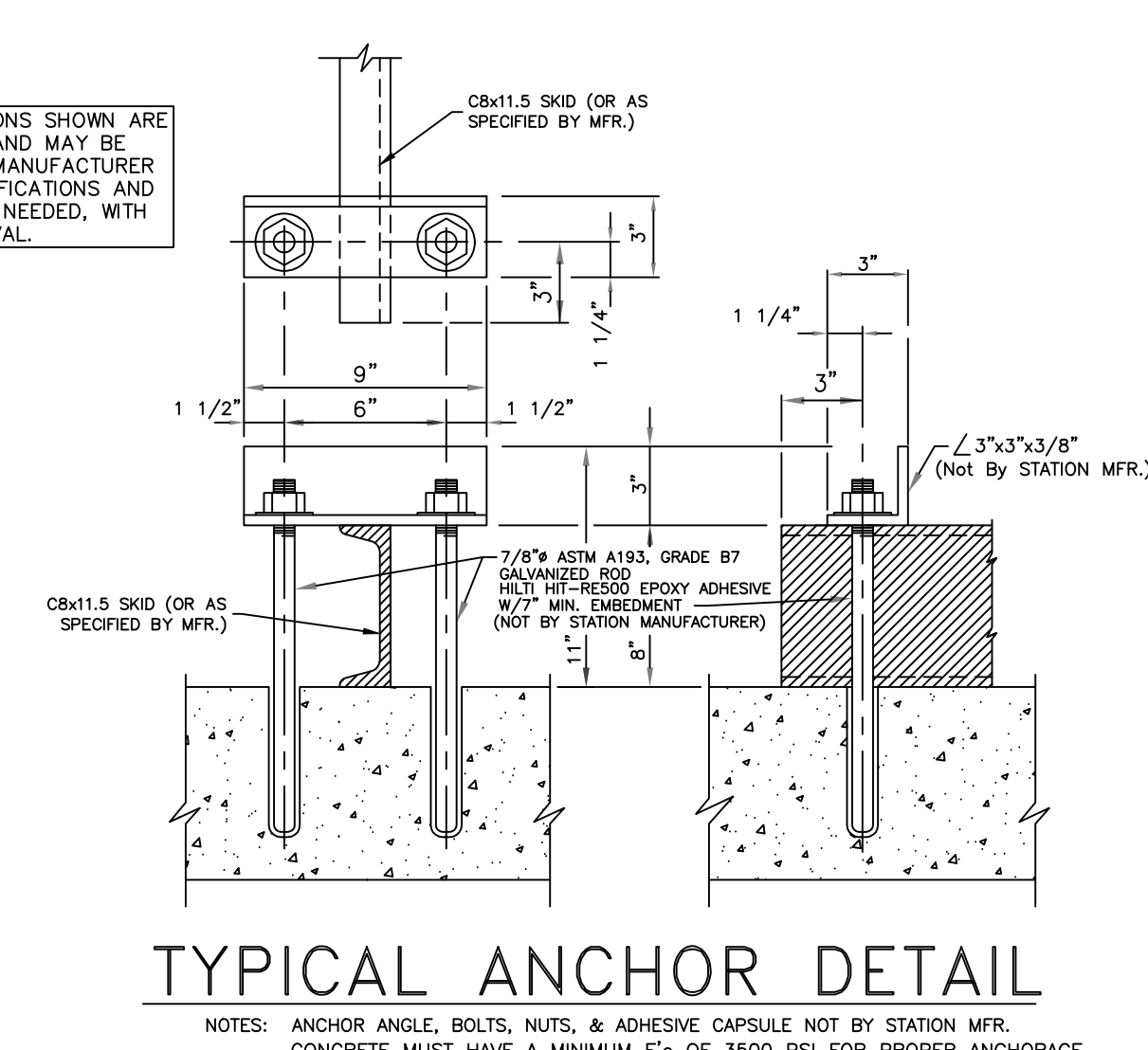
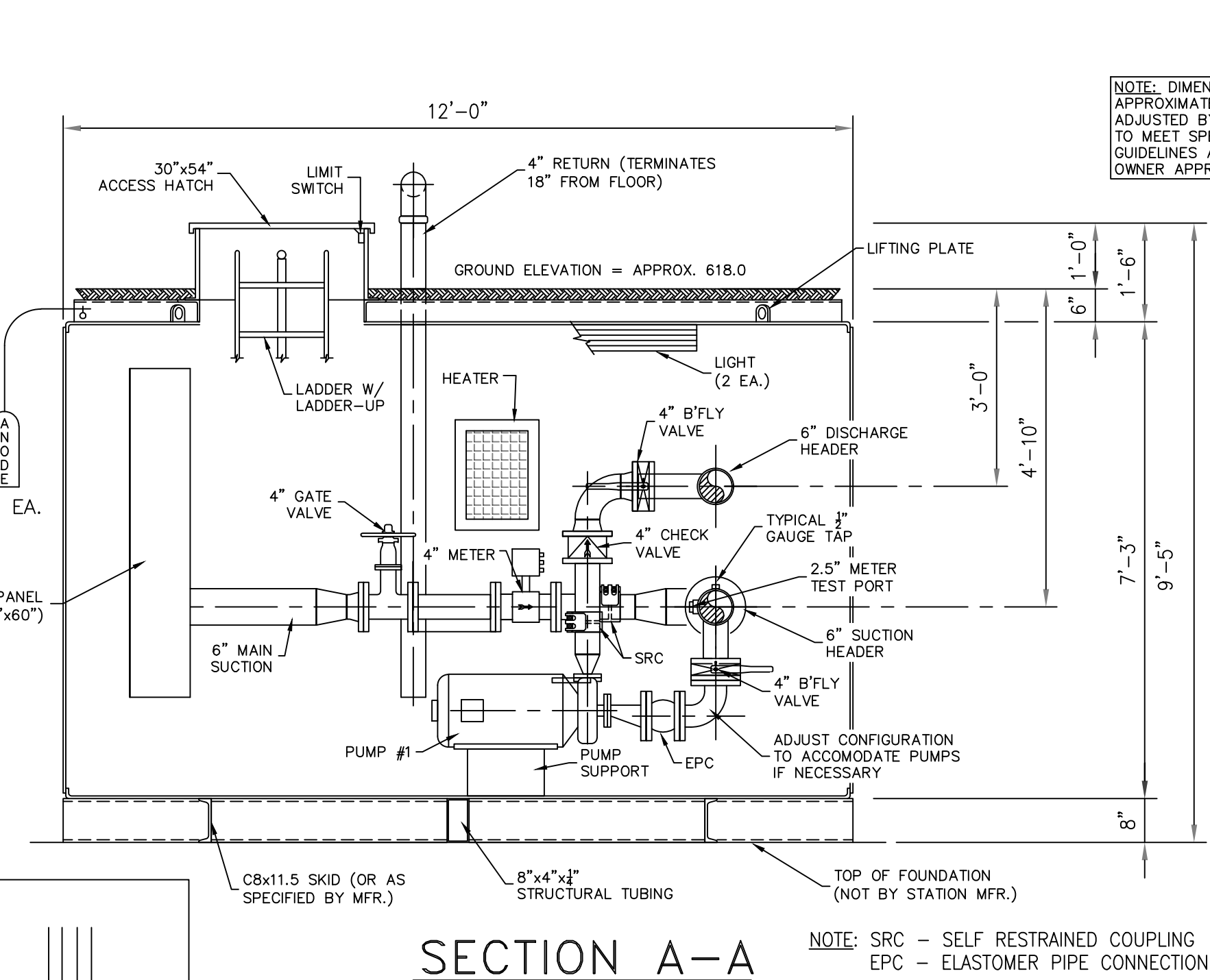
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3. CONTOURS SHOWN ARE EXISTING. SITE GRADING SHALL BE MINIMAL TO PROVIDE EVEN SURFACE AROUND PUMP STATION AND DIVERT WATER AWAY FROM STATION. SEE "SECTION A-A" THIS SHEET. PUMP STATION PAY ITEM INCLUDES PUMP STATION INSTALLED, TESTED AND IN SERVICE, ALONG WITH ACCESS DRIVE, ELECTRICAL, GRADE WORK, PIPING AND FITTINGS AS NOTED.

EROSION CONTROL LEGEND:

SILT FENCE (INSTALL AS NEEDED)

RIP RAP CHECK DAM (INSTALL AS NEEDED)



DESIGN CRITERIA

Controls TELEMETRY (NOT BY STATION MFR)
Power Service: 250A, 240 Volts, 3-Phase, 4-Wire, 60 Hz

PUMP DATA

Type: HORIZ. CLOSED CPLD., END SUCTION
Pump: 1 & 2
Capacity: 250 G.P.M. AT 249 FEET T.D.H.
Motor: 30 H.P., 3550 R.P.M.
Size: 2" X 1.5" X 8"

GENERAL NOTES

CONTRACTOR'S NOTE:

SCHEDULE 40 STEEL PIPE
MAIN SUCTION: 6" ANSI STANDARD B16.5, CLASS 150 FLANGE
MAIN DISCHARGE: 6" ANSI STANDARD B16.5, CLASS 150 FLANGE

ALL PIPING AND EQUIPMENT WILL BE ADEQUATELY SUPPORTED AND BRACED

CAPSULE & STRUCTURAL STEEL: ASTM A-36

STRUCTURAL TUBING: A500, GRADE B

CONTRACTOR'S NOTES

SUMP PUMP AND DEHUMIDIFIER MUST BE POWERED UP AND TURNED ON IMMEDIATELY AFTER THIS STATION IS SET IN PLACE.

DO NOT SHIM STATION. IT IS INTENDED THAT THE MAIN FLOOR MEMBERS BE IN CONTINUOUS CONTACT WITH THE CONCRETE PAD.

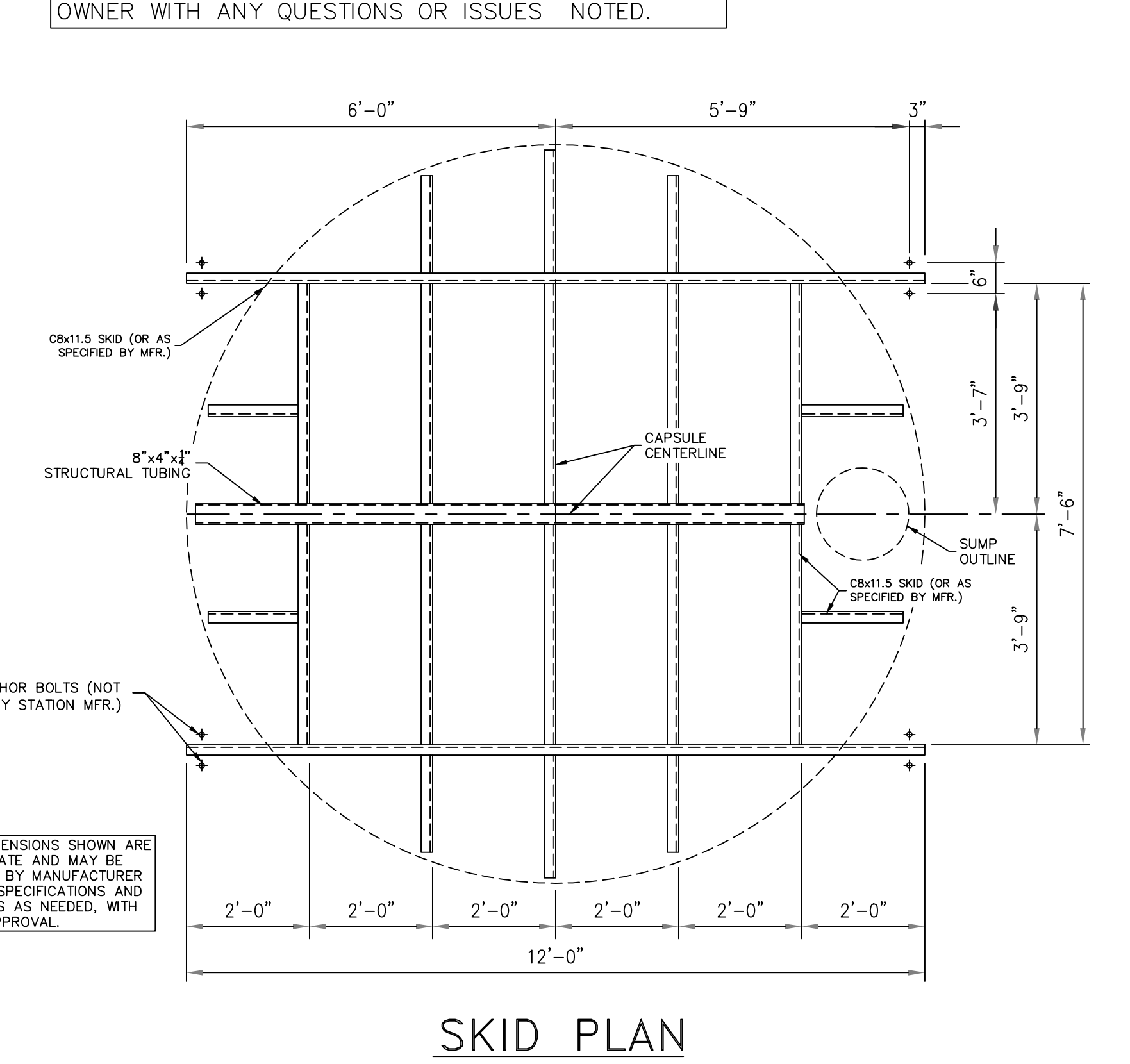
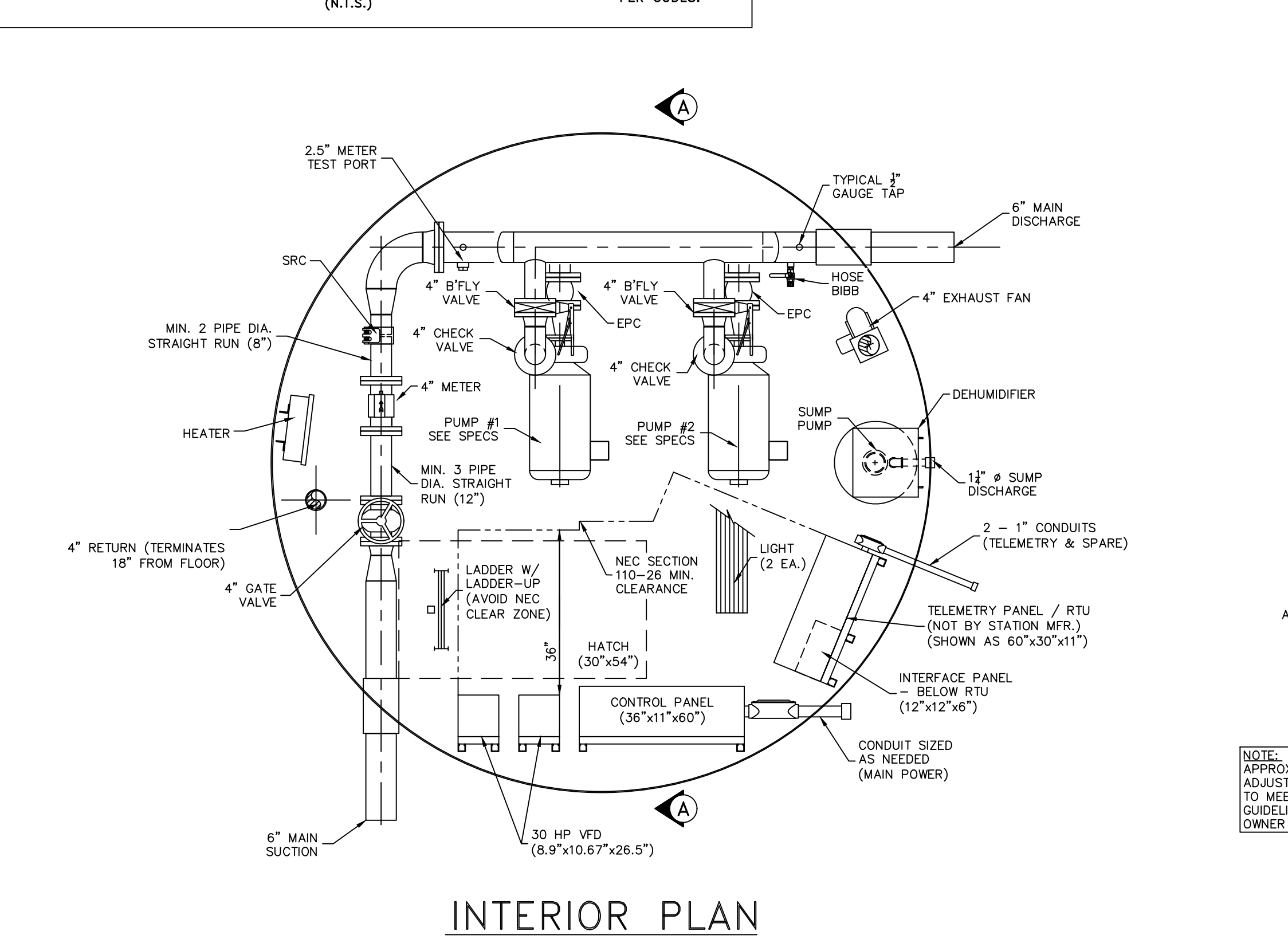
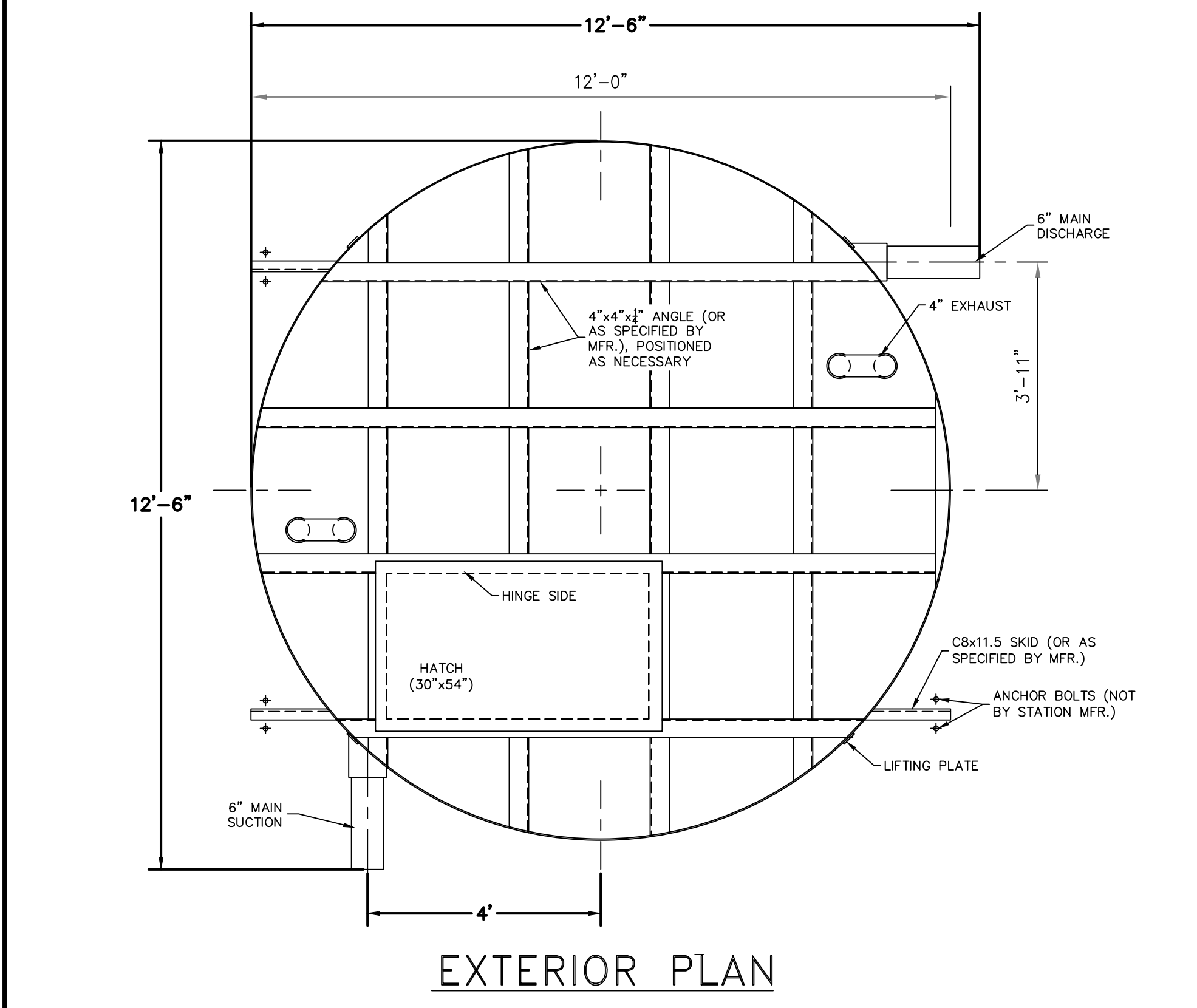
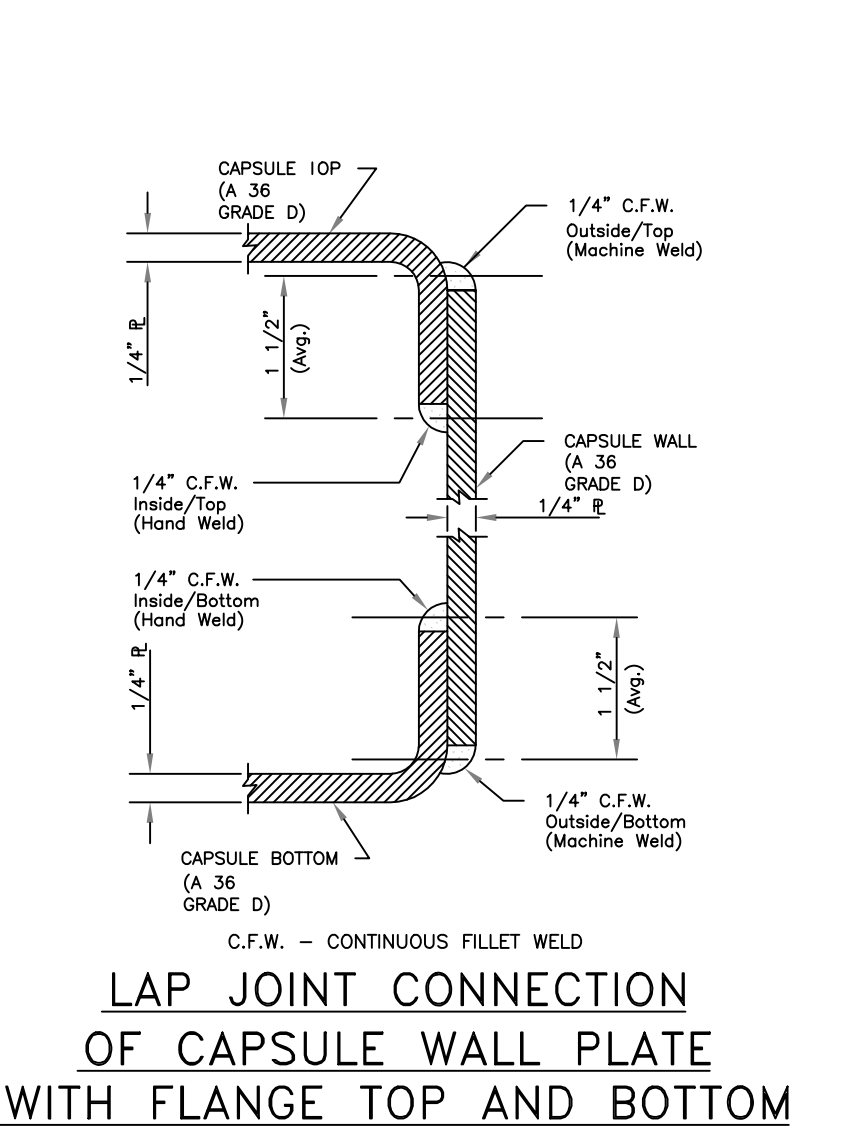
PLEASE NOTE ORIENTATION OF THE INLET AND OUTLET PIPE AND ELECTRICAL CONDUIT LOCATIONS IN REFERENCE TO THE JOBSITE LAYOUT. EFI CANNOT BE HELD RESPONSIBLE UNLESS CONFIRMATION OF THESE ORIENTATIONS IS RECEIVED THROUGH THE APPROVED SUBMITTALS.

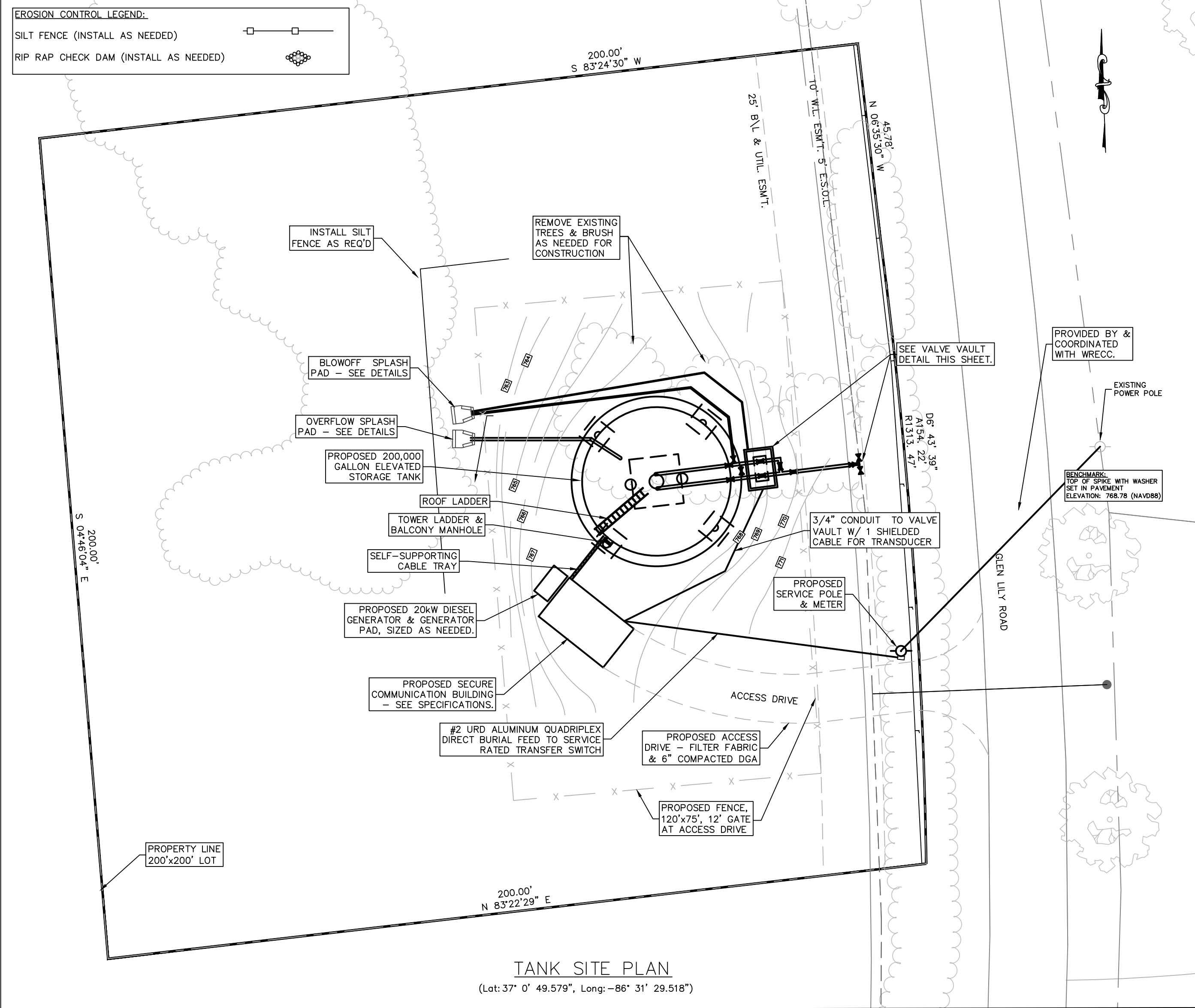
THIS STATION IS NOT DESIGNED TO WITHSTAND PIPELINE THRUST OR EXTERNAL PIPE RESTRAINT FORCES. THRUST BLOCKING AND PIPE RESTRAINTS EXTERNAL TO THE STATION SHALL BE DESIGNED AND INSTALLED BY OTHERS.

NOTE: OPTIONAL PIPE EXTENSIONS FURNISHED BY EFI. IF USED, INSTALLATION OF EXTENSIONS WILL BE REQUIRED BY INSTALLING CONTRACTOR.

IMPORTANT NOTE:

FINAL PUMP STATION STRUCTURAL DESIGN, PIPING DESIGN, AND EQUIPMENT LAYOUT TO BE PROVIDED BY PUMP STATION SUPPLIER AND APPROVED BY OWNER. THESE PLANS DETAIL ITEMS EXPECTED TO BE PRESENT OR REQUIRED. MANUFACTURER SHOULD CONSULT OWNER WITH ANY QUESTIONS OR ISSUES NOTED.

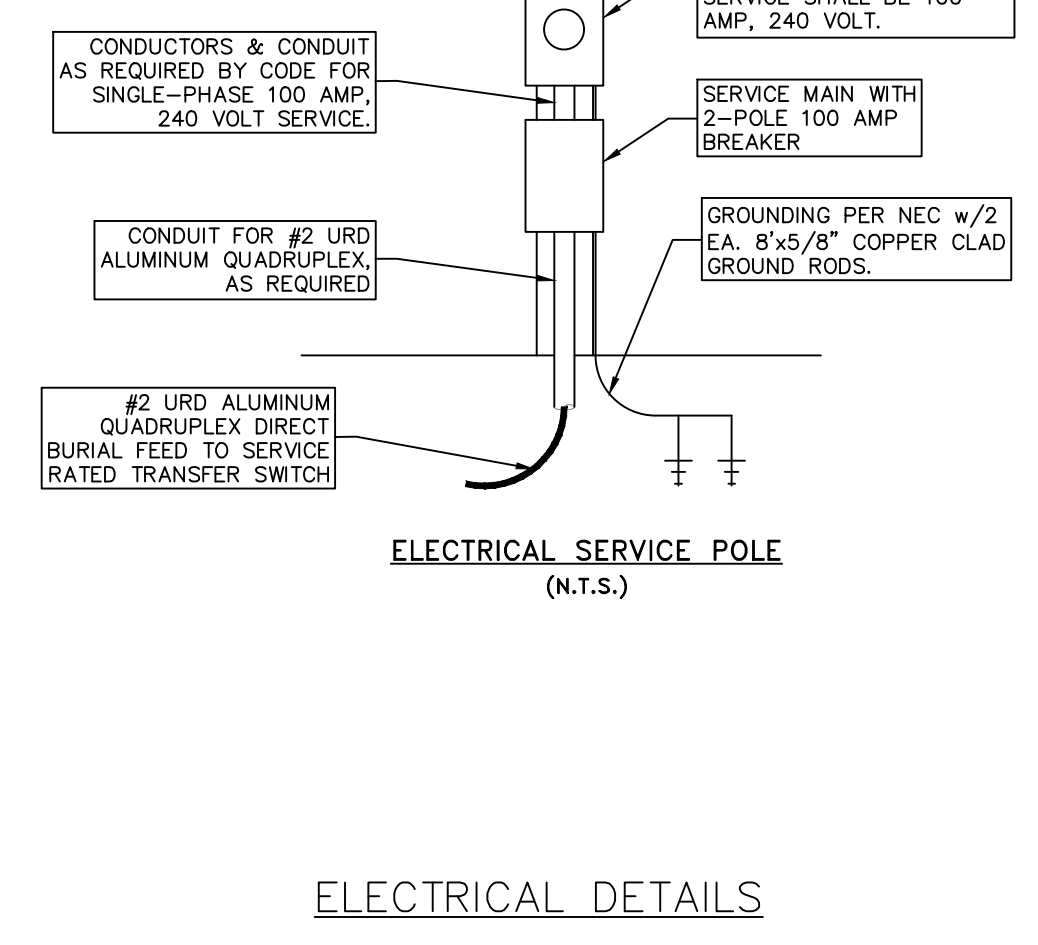
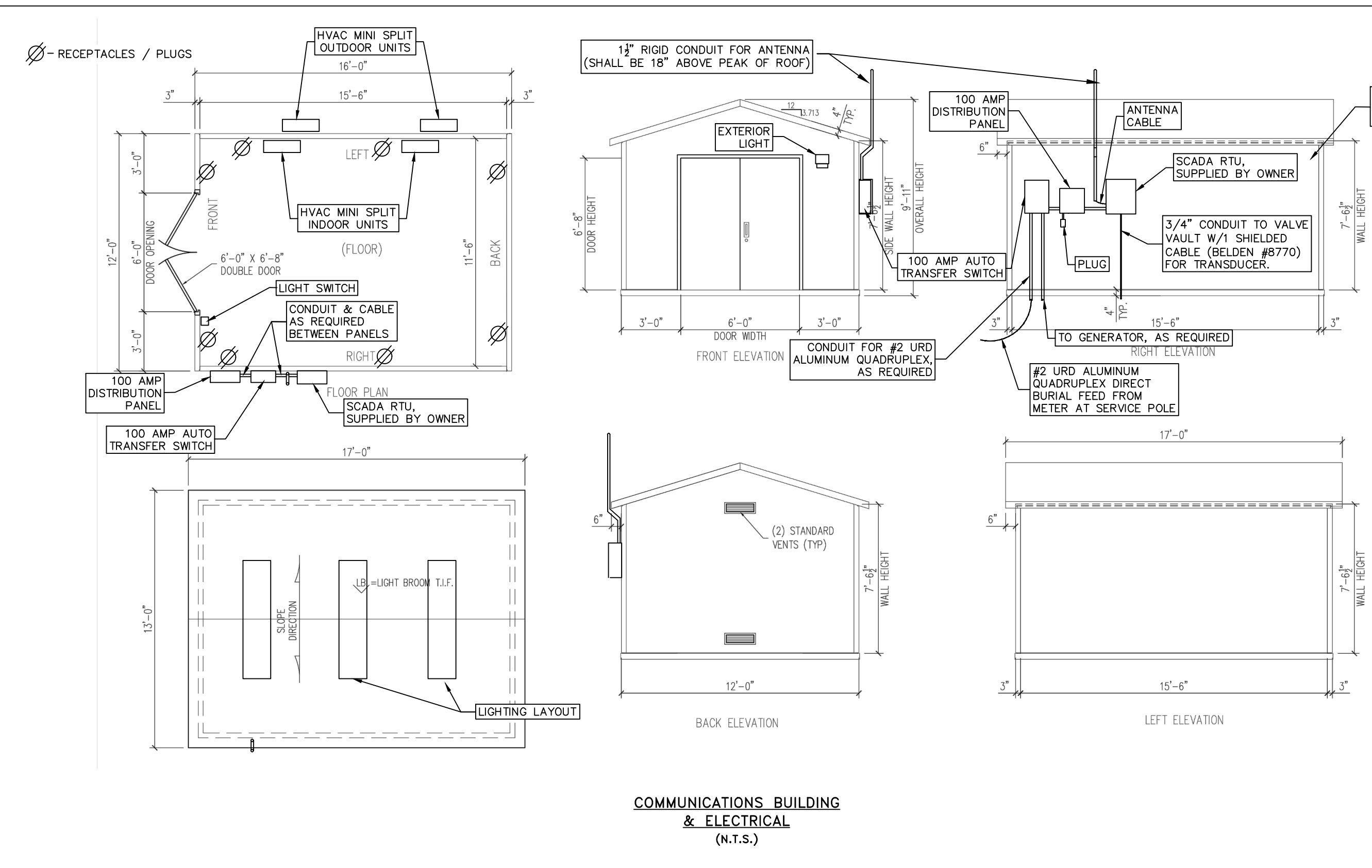
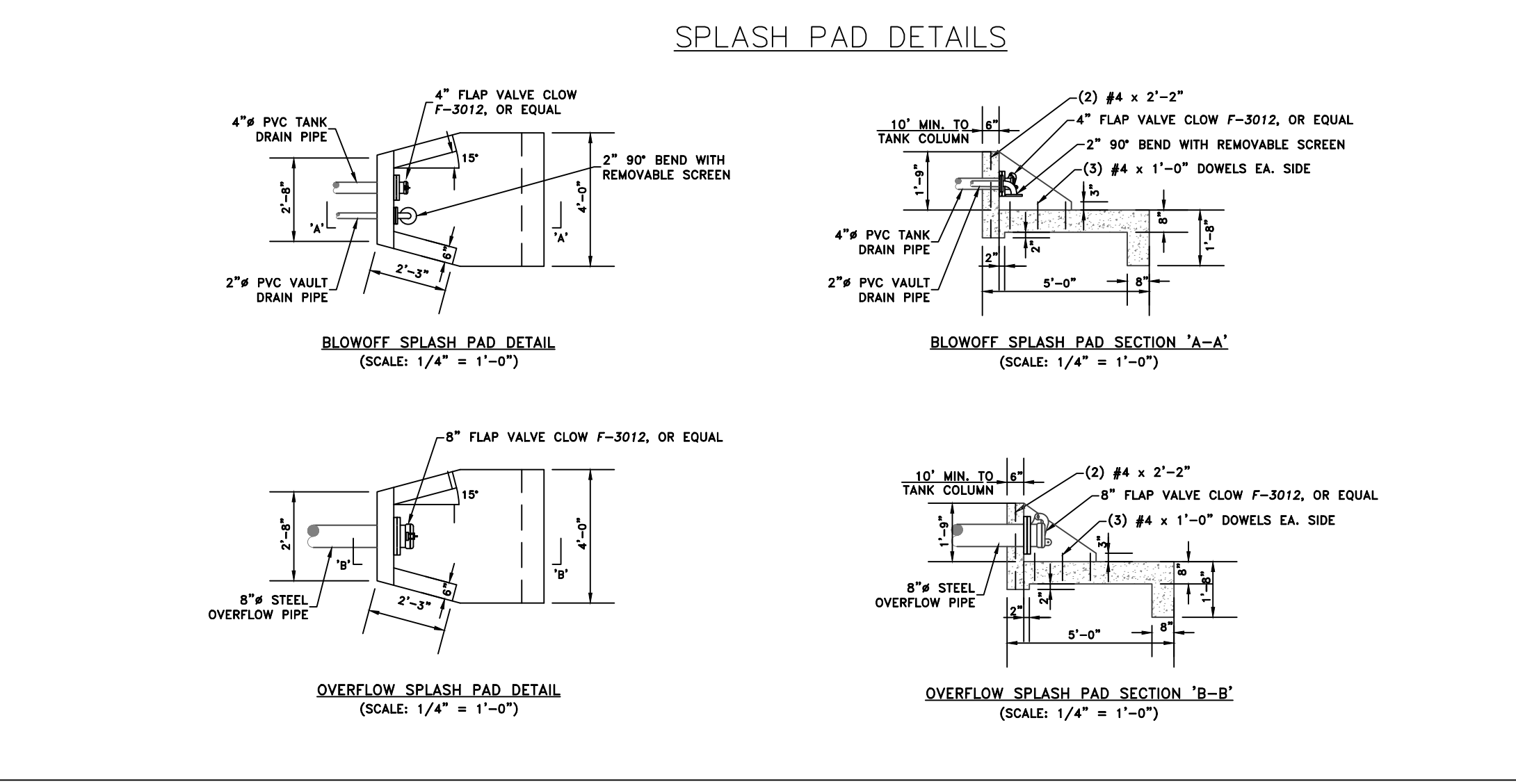
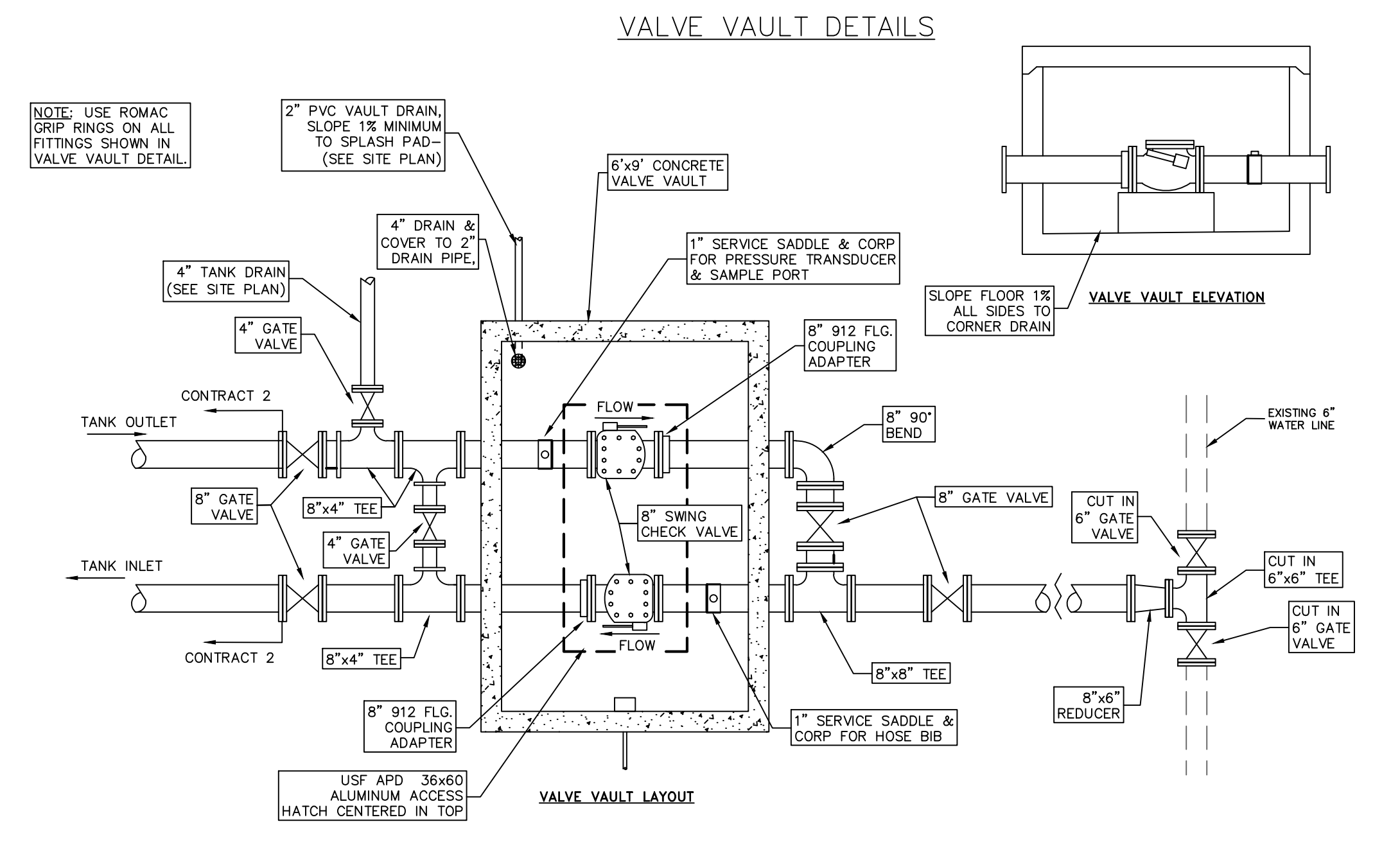
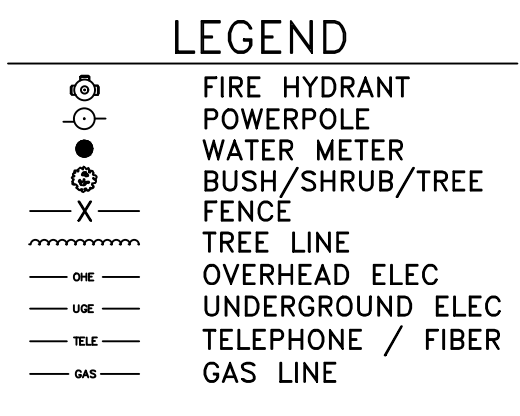




- SITE PLAN NOTES:**
- ALL PIRING WHERE NOTED, VALVE VAULT, FENCE, COMMUNICATIONS BUILDING, SPLASH PADS, FINISH GRADING, SEEDING & SOWING, AND ELECTRICAL WORK SHOWN ON THIS SHEET SHALL BE PERFORMED UNDER CONTRACT 1.
 - ALL OTHER WORK SHOWN ON THIS SHEET SHALL BE PERFORMED UNDER CONTRACT 2, INCLUDING ROUGH GRADING, CLEARING SITE AND TEMPORARY ACCESS ROAD.
 - ALL CONTOURS SHOWN ON THIS SITE PLAN ARE PROPOSED CONTOURS. GRADING SHALL PROVIDE A FLAT, STABLE SURFACE FOR TANK AND COMMUNICATIONS BUILDING.
 - CONSTRUCTION SHALL ALLOW FOR DELIVERY AND INSTALLATION OF ALL WATER STORAGE TANK AND COMMUNICATIONS BUILDING PARTS. SEE SPECIFICATIONS FOR MORE INFORMATION.
 - CONTRACTOR SHALL TRIM AND REMOVE TREES AND BRUSH AT TANK SITE AND ALONG FRONT OF PROPERTY AS DIRECTED FOR ACCESS TO SITE AND CONSTRUCTION OF PROPOSED FACILITIES.
 - ALL TREES AND BRUSH CLEARED FROM SITE SHALL BE DISPOSED OF LEGALLY AND AT CONTRACTORS EXPENSE.
 - FENCE SHALL BE 10 FEET TALL, 9 GAUGE X 2" MESH CHAIN LINK FABRIC, 4" CORNER POSTS WITH 48" DEEP (12"x12") FOOTERS, DOME STYLE POST CAPS. THERE SHOULD BE A TOP, BOTTOM AND MIDDLE RAIL ALL WITH 1 1/2" DIA. CONDUIT.
 - CONTRACTOR SHALL CONFINE ALL OPERATIONS TO THE OWNERS PROPERTY.
 - NEW WATER STORAGE TANK & PRESSURE REGULATING VALVES (SEE SHEET 5) SHALL BE COMPLETED BEFORE NEW BOOSTER PUMP STATION & PROPOSED LINES ARE PUT INTO SERVICE.
 - A TEMPORARY CONSTRUCTION ENTRANCE SHALL BE WIDE ENOUGH TO ALLOW FOR ALL NECESSARY PARTS AND EQUIPMENT TO BE DELIVERED AND INSTALLED. SEE COMMUNICATIONS BUILDING SPECIFICATIONS FOR FURTHER DETAILS.

- VALVE VAULT NOTES:**
- DEPTH OF VAULT SHALL BE DETERMINED BY TANK SHOP DRAWINGS WITH RESPECT TO PIPE CL ELEVATION.
 - SADDLE & CORP: MUELLER "BR180899075 CC" & "H-10045N".
 - ALL WORK SHOWN IN VALVE VAULT DETAIL SHALL BE INCLUDED IN LUMP SUM PAY ITEM FOR VALVE VAULT, INCLUDING CONNECTION TO WATER MAIN.
 - ALL FITTINGS SHALL BE ROODED TO VALVE VAULT.
 - CONTRACT 1 SHALL INCLUDE BLOCKING REQUIRED TO FACILITATE PRESSURE TESTING, SAMPLING AND PLACING LINE IN SERVICE.

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- ELECTRICAL NOTES:**
- METER PEDESTAL / SERVICE POLE SHALL BE SINGLE-PHASE 100 AMP, 240 VOLT INSTALLATION PER NEC W/100 AMP, 2 POLE BREAKER FOR TANK SERVICE. COORDINATE LOCATION WITH WRECC.
 - INSTALL #2 URD ALUMINUM QUAD DIRECT BURIAL CABLE FROM METER PEDESTAL / SERVICE POLE TO SERVICE RATED TRANSFER SWITCH AT COMMUNICATIONS BUILDING.
 - INSTALL CAUTION TAPE "BURIED ELECTRICAL LINE" 12" ABOVE WIRE IN DITCH WALL & SUPPORT.
 - INSTALL 100-AMP SERVICE RATED AUTOMATIC GENERATOR TRANSFER SWITCH, RTU AND ANTENNA RISER ON OUTSIDE WALL OF COMMUNICATIONS BUILDING WITH DISTRIBUTION PANEL MOUNTED INSIDE OF BUILDING AS SHOWN. SEE SPECIFICATIONS FOR FURTHER DETAILS.
 - INSTALL GROUNDING AND TWO (2) 8" GROUND RODS AS REQUIRED PER CODE.
 - INSTALL ONE GFCI RECEPTACLE WITH IN-USE COVER ON OUTSIDE OF COMMUNICATIONS BUILDING AS SHOWN.
 - ALL ELECTRICAL WORK AT THE TANK SITE IS INCLUDED IN THE LUMP SUM PAY ITEM FOR THE VALVE VAULT.
- COMM. BUILDING NOTES:**
- COMMUNICATIONS BUILDING TO BE A PRECAST CONCRETE TRANSPORTABLE BUILDING MEETING REQUIREMENTS OUTLINED IN THE SPECIFICATIONS MANUAL.
 - CONTRACTOR SHALL PREPARE A CRUSHED STONE FOUNDATION IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS.
 - SELECTED BUILDING STYLE IS AN EASI-SET MODEL 1216, AS MANUFACTURED BY A LICENSED PRODUCER OF EASI-SET BUILDINGS. OTHER BUILDING OPTIONS MUST MEET OR EXCEED SPECIFICATIONS SET FORTH AND BE PRE-APPROVED BY OWNER.
 - MCCANN CONCRETE PRODUCTS IN DORSEY, IL HAS BEEN CONTACTED DURING THE PLANNING PHASE OF THIS PROJECT AS A LICENSED PROVIDER OF EASI-SET BUILDINGS.
 - COORDINATE ACCESS & EQUIPMENT REQUIREMENTS FOR INSTALLATION OF BUILDING WITH LICENSED BUILDING PRODUCER.
 - ELECTRICAL AND TELEMETRY ITEMS TO BE INSTALLED BY CONTRACTOR ON-SITE. BUILDING PRODUCER IS NOT REQUIRED TO PROVIDE THESE ITEMS. RTU TO BE PROVIDED BY OWNER.

SCALE: N.T.S.

DATE: 12/19/19

PROJECT #: 346992

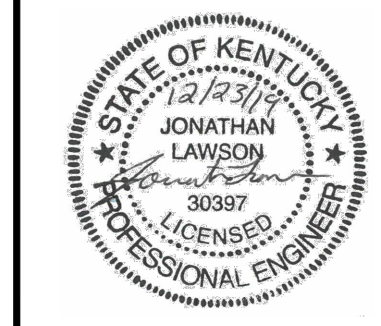
DESIGNED: JNL

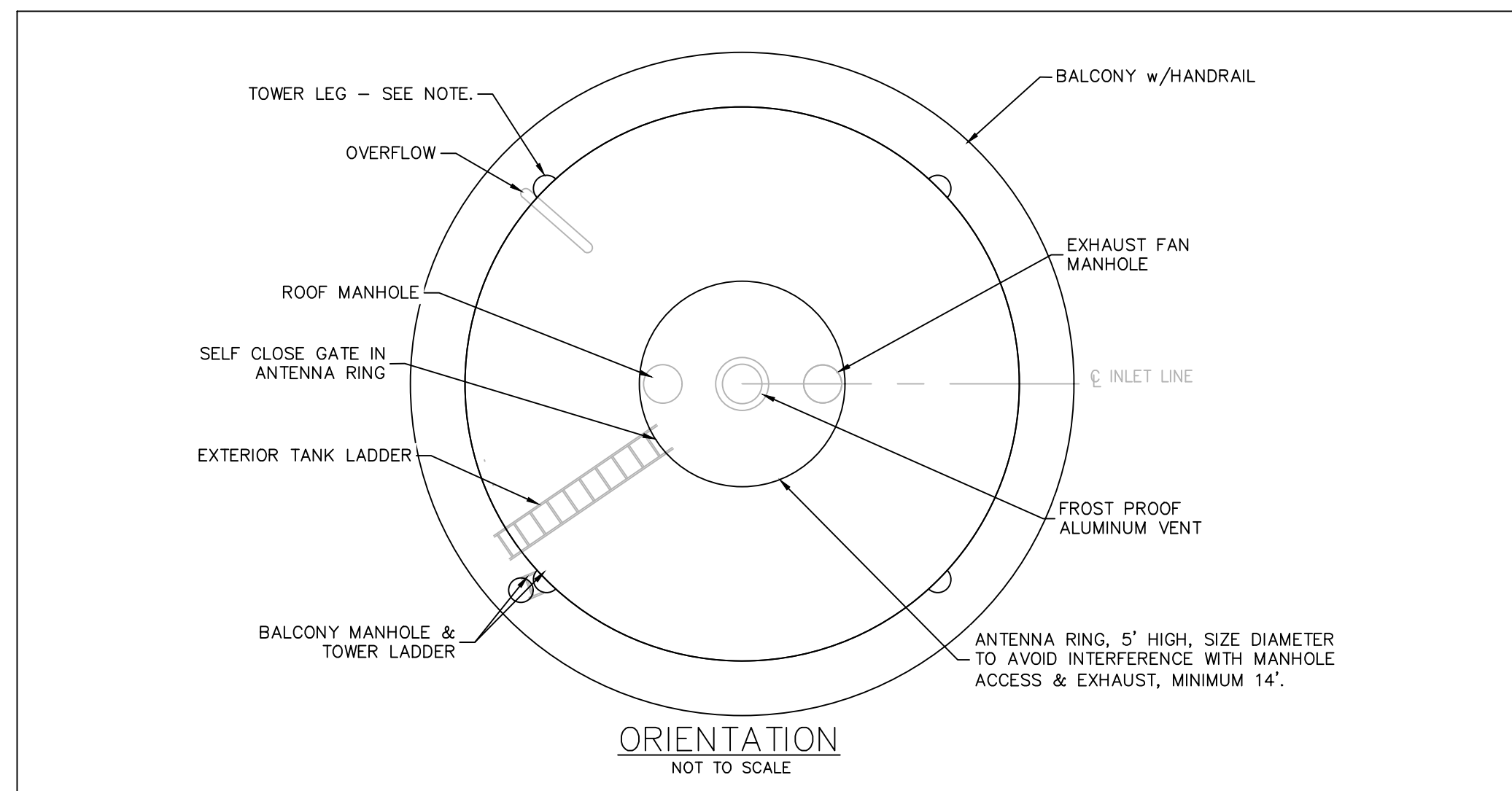
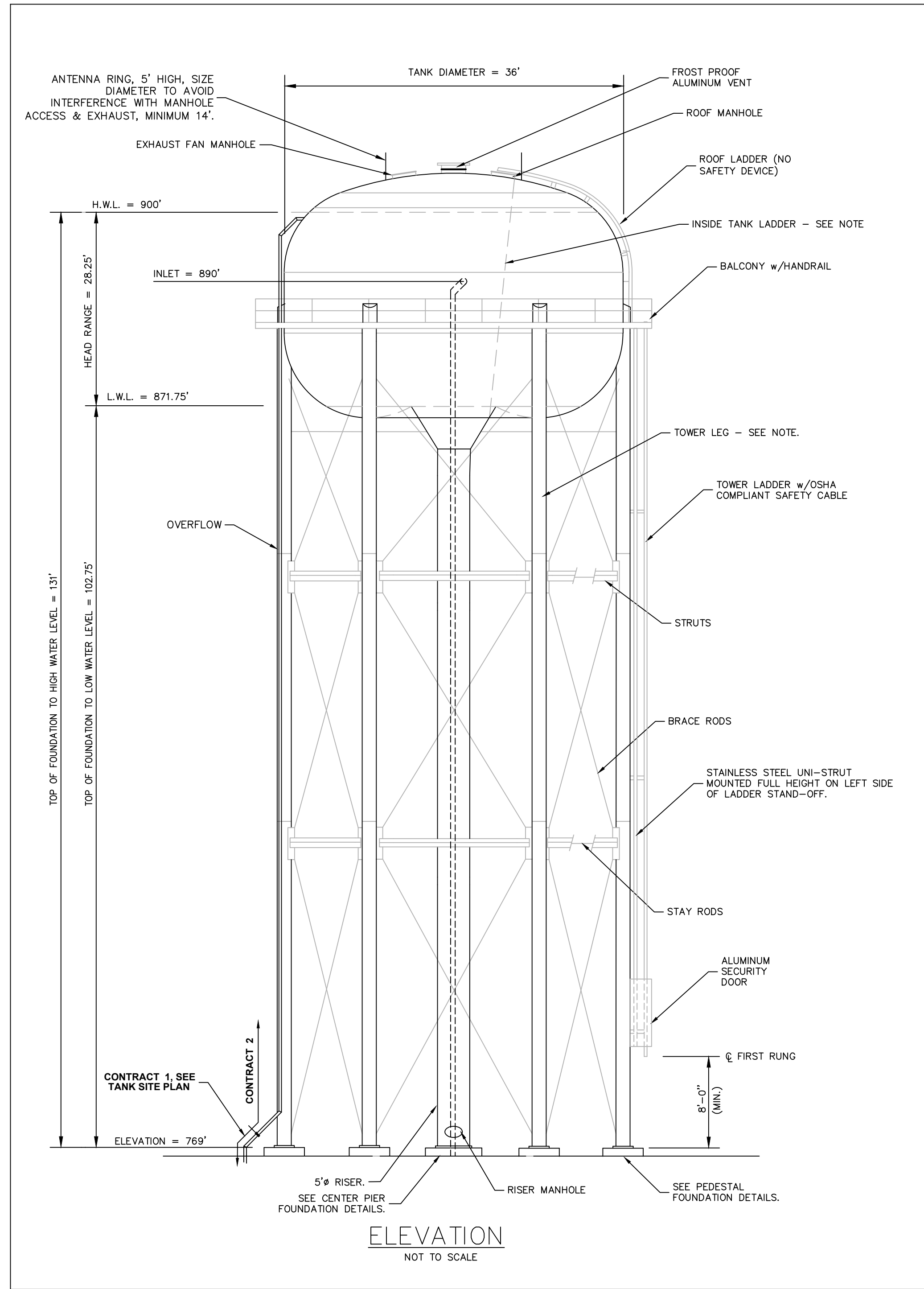
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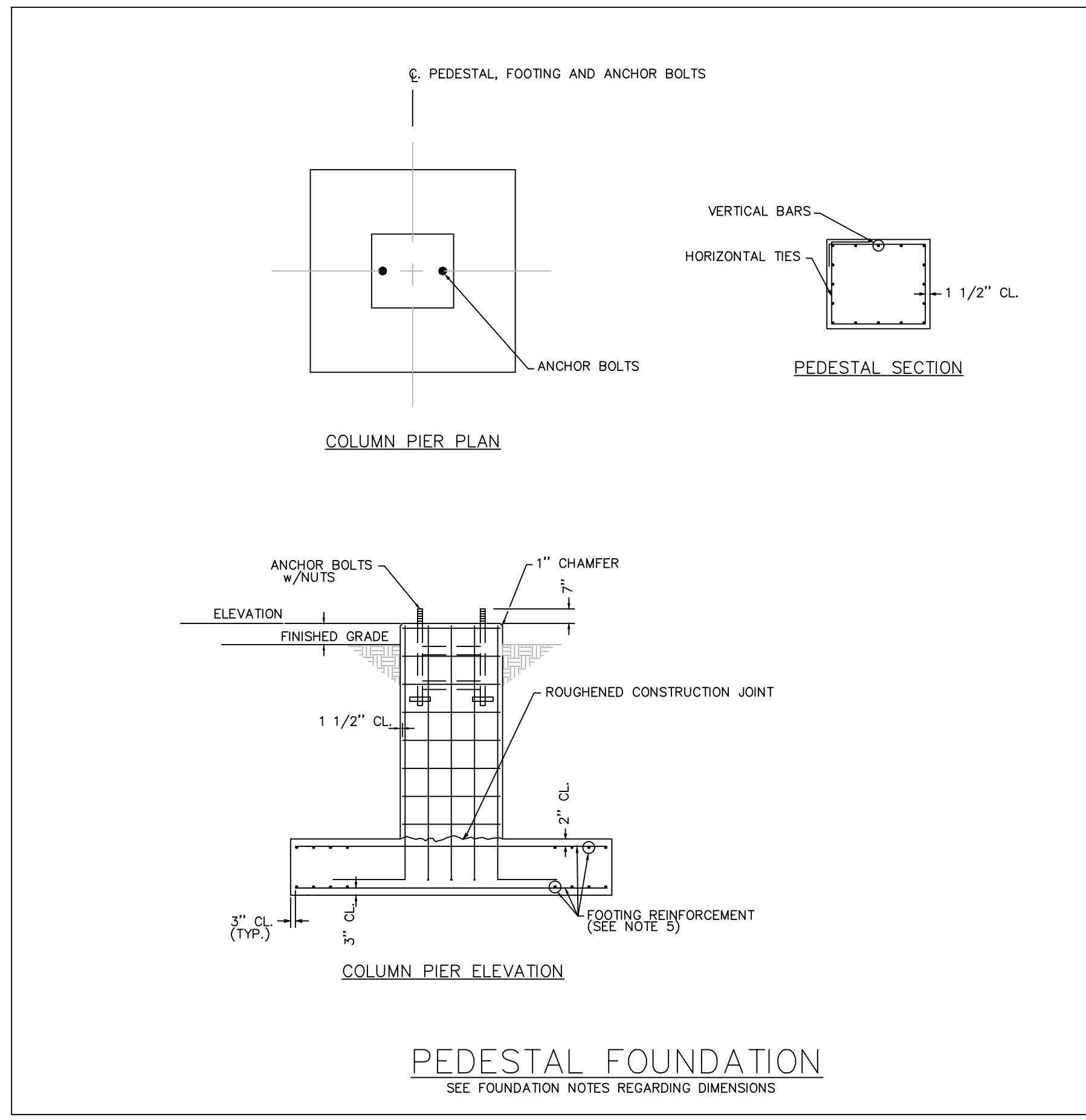
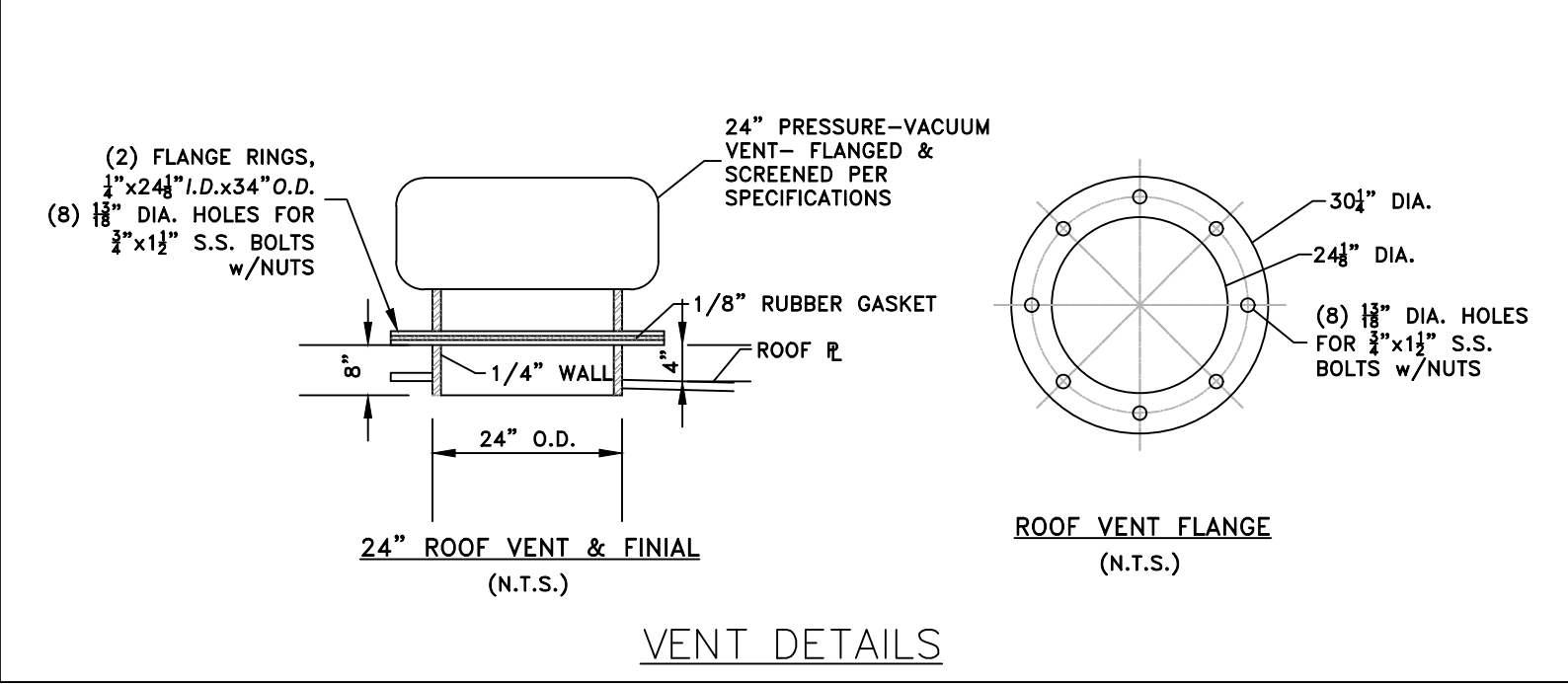
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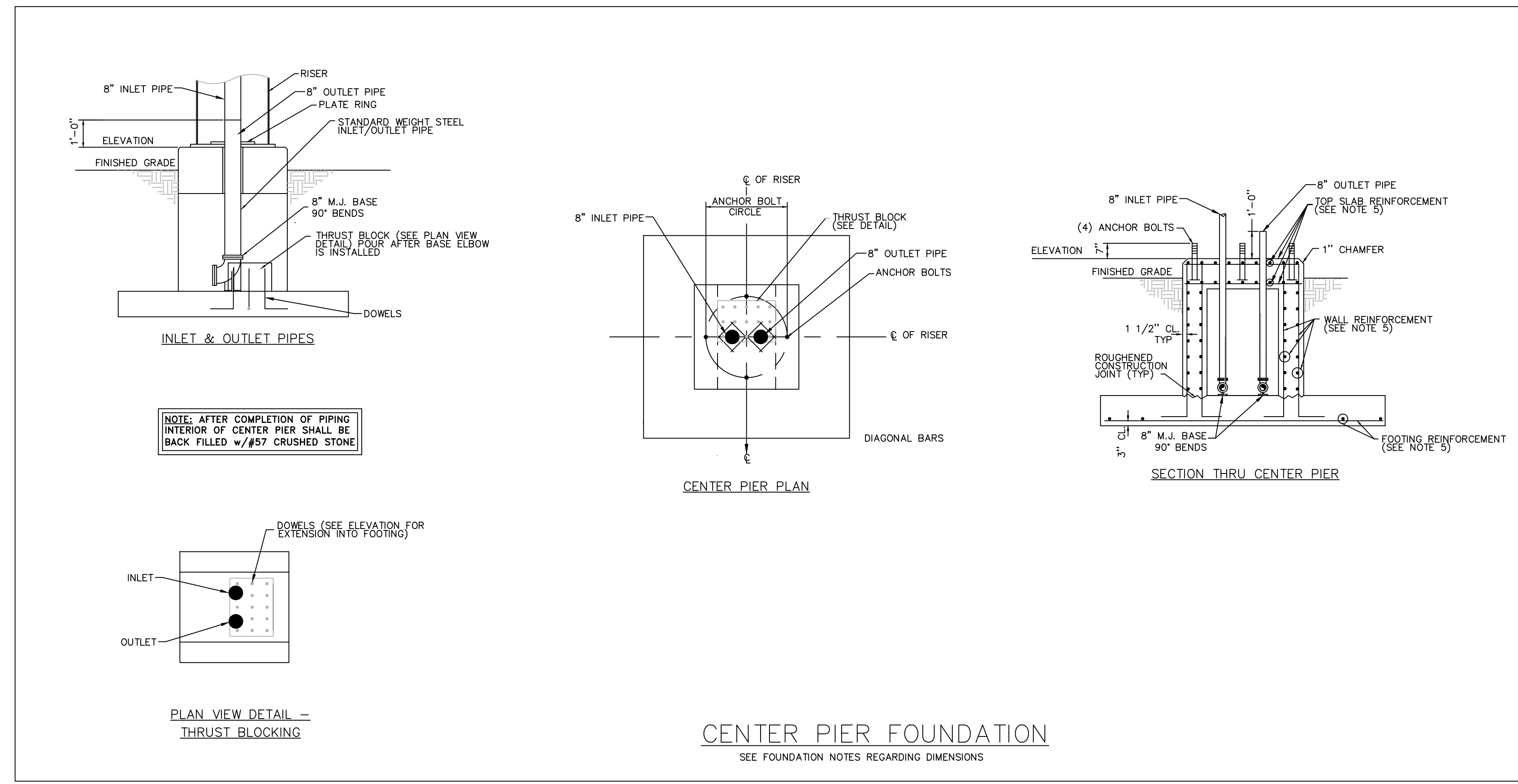


- GENERAL NOTES:**
- 1) ACCESSORIES SHOWN ON ELEVATION DRAWING ARE ROTATED FOR CLARITY AND MAY NOT MATCH ACTUAL PROPOSED LAYOUT.
 - 2) ALL HANDRAILS, PLATFORM LANDINGS, WALKWAYS, LADDERS, AND SAFETY CLIMB DEVICES SHALL CONFORM WITH CURRENT OSHA STANDARDS.
 - 3) SEE PROJECT SPECIFICATIONS FOR SHOP AND FIELD PAINT REQUIREMENTS.
 - 4) STERILIZE TANK IN ACCORDANCE WITH AWWA C652-92 AND PROJECT SPECIFICATIONS.
 - 5) NUMBER OF TOWER LEGS PER MANUFACTURER'S STANDARD DESIGN.
 - 6) ALL ITEMS ON THIS SHEET ARE PART OF CONTRACT 2, EXCEPT OVERFLOW PIPING SECTION AS NOTED ON PLANS.

- TANK NOTES:**
- DESIGN:**
TANK AND TOWER SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH AWWA D100-96 AND PROJECT SPECIFICATIONS.
- WIND LOAD:** 120 MPH (Ultimate)
SNOW LOAD: SEE SPECIFICATIONS
SEISMIC ZONE: SEE SPECIFICATIONS
- MATERIALS:**
STEEL PLATE: ASTM A283 GR. C / A36
STRUCTURAL STEEL SHAPES: ASTM A36
BRACE RODS AND STAY RODS: ASTM A36
LADDER RUNGS: ASTM A706



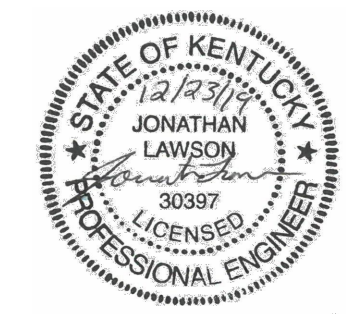
- FOUNDATION NOTES:**
- 1) FOUNDATION DESIGN WILL BE THE RESPONSIBILITY OF THE TANK CONTRACTOR.
 - 2) PEDESTAL AND FOOTING DIMENSIONS AND CONCRETE REINFORCEMENT SHALL BE DETERMINED BY THE TANK CONTRACTOR.
 - 3) FOUNDATION CONSTRUCTION SHALL COMPLY WITH AWWA D100-96, A.C.I. 318-99, A.C.I. 301-96 AND APPLICABLE SECTIONS OF THE PROJECT SPECIFICATIONS AND THE PROJECT SOILS REPORT.
 - 4) CONCRETE COMPRESSIVE STRENGTH SHALL BE 4,000 PSI @ 28 DAYS.
 - 5) REINFORCEMENT SHALL CONFORM TO A.S.T.M. A615 GR. 60.
 - 6) CONSTRUCTION JOINTS SHALL BE ROUGHENED ACROSS ENTIRE FACE WITH 1/4" MINIMUM DEPTH INDENTATIONS.
 - 7) THE TOP OF CONCRETE FOR ALL PIERS INCLUDING THE CENTER PIER SHALL BE LEVEL AND SHALL BE THE SAME ELEVATION (UNLESS OTHERWISE NOTED BY A SPECIFIED ELEV.) WITH A MAXIMUM DIFFERENTIAL OF (+/-) 1/4".
 - 8) ANCHOR BOLTS SHALL BE PLACED WITHIN (+/-) 1/8" OF THE PLAN DIMENSIONS AT THE TOP OF THE CONCRETE, PLUMB WITHIN 1/4" IN 12" AND EXTEND WITHIN 1/2" OF THE SPECIFIED PROJECTION ABOVE THE TOP OF THE FOUNDATION.
 - 9) CENTER PIER FOUNDATION DIMENSIONS AND CONCRETE REINFORCEMENT REQUIREMENTS SHALL BE DETERMINED BY TANK CONTRACTOR.



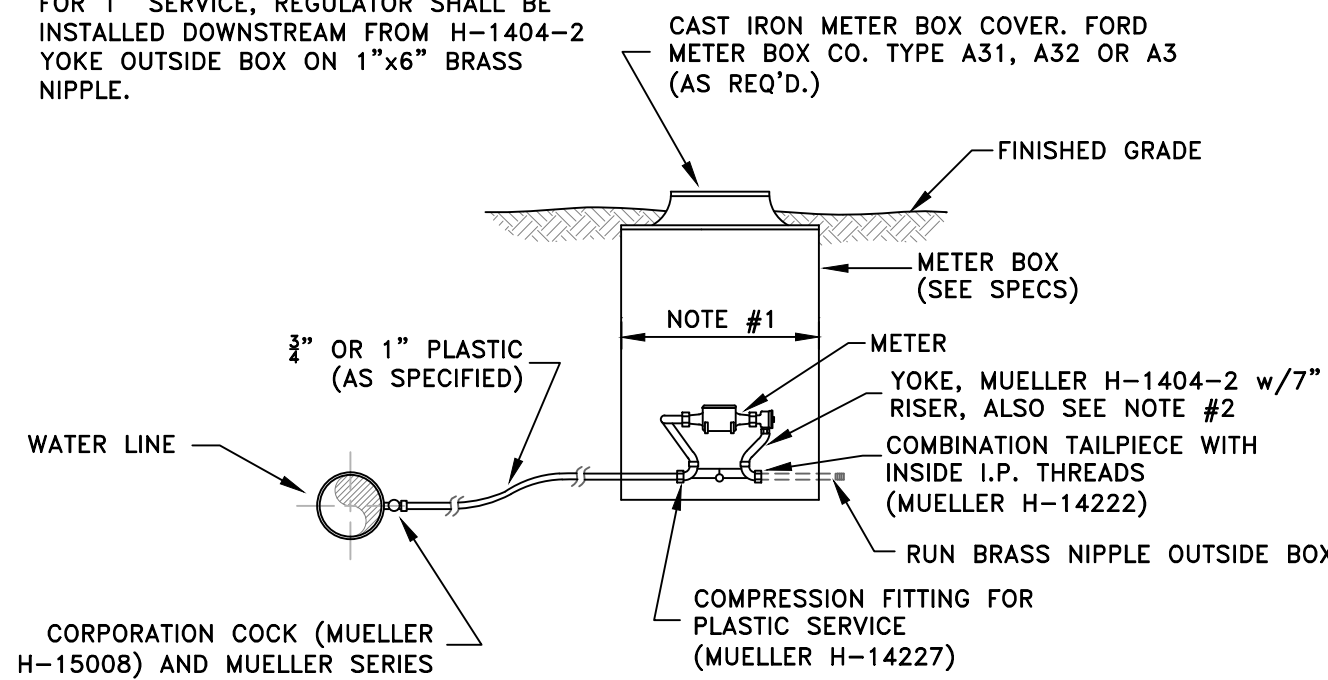
SCALE: N.T.S.
DATE: 12/19/19
PROJECT #: 346992
DESIGNED: JNL
DRAWN: JNL
CHECKED: RJL

REVISIONS:

NO.:	DATE:

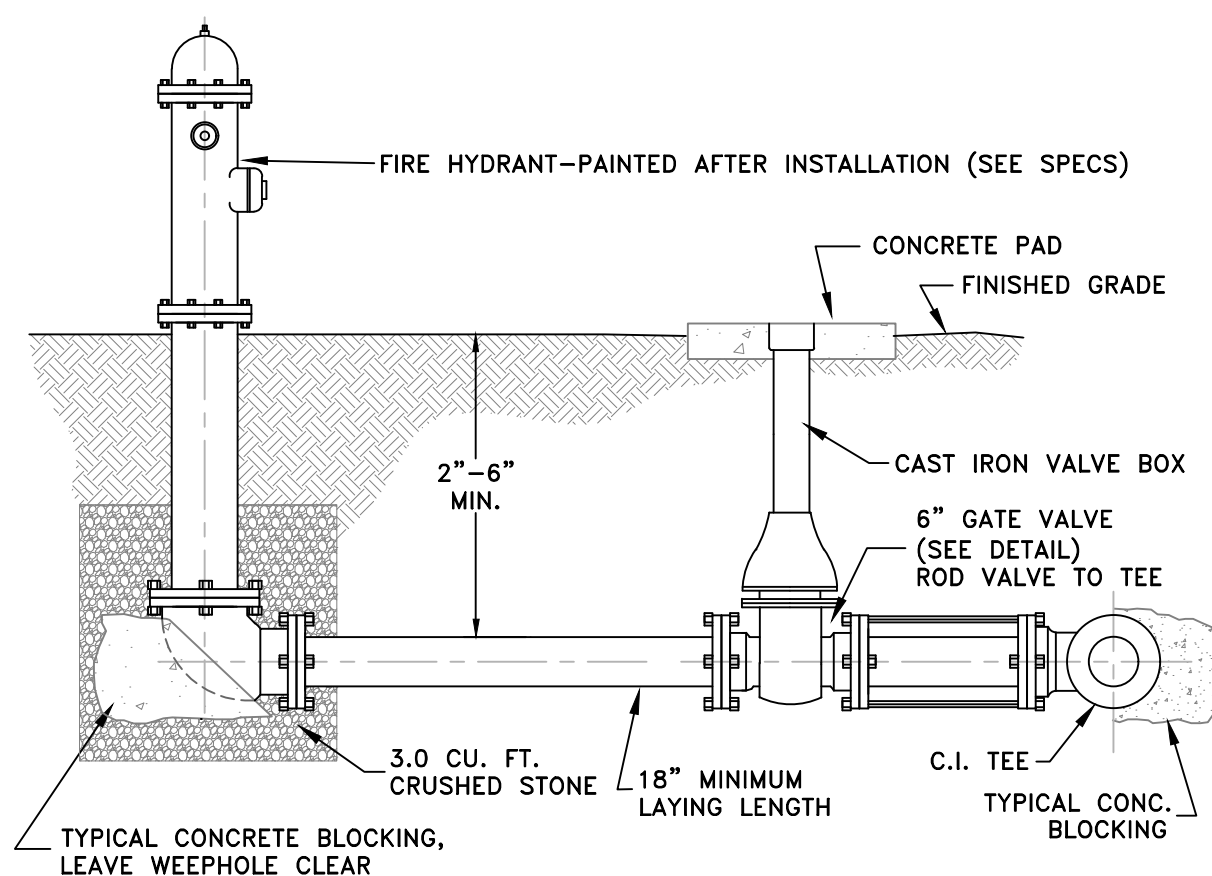


- NOTES:**
- METER BOX DIA. FOR 3/4" SERVICE SHALL BE 15" OR 18" FOR LOCATIONS WITH & WITHOUT REGULATORS RESPECTIVELY. ALL 1" SERVICES SHALL USE 20" DIA. BOX.
 - WHERE A REGULATOR IS REQUIRED IT SHALL BE WILKINS 34-600DM-HR. FOR 3/4" SERVICE, REGULATOR SHALL BE INSTALLED IN MUELLER H-1404-012 TANDEM YOKE. FOR 1" SERVICE, REGULATOR SHALL BE INSTALLED DOWNSTREAM FROM H-1404-2 YOKE OUTSIDE BOX ON 1"x6" BRASS NIPPLE.

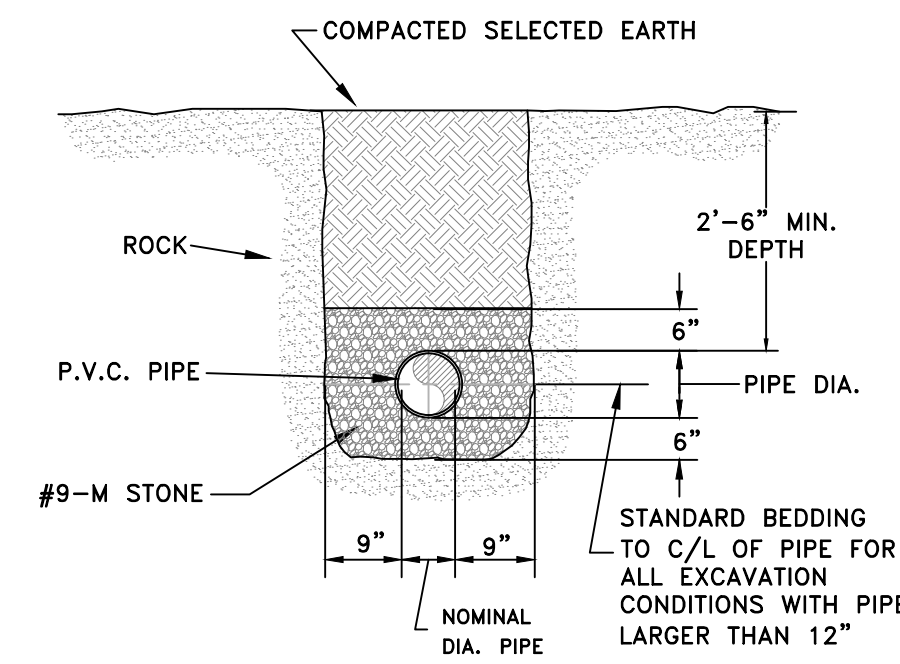


TYPICAL METER SETTING FOR 3/4" & 1" SERVICES

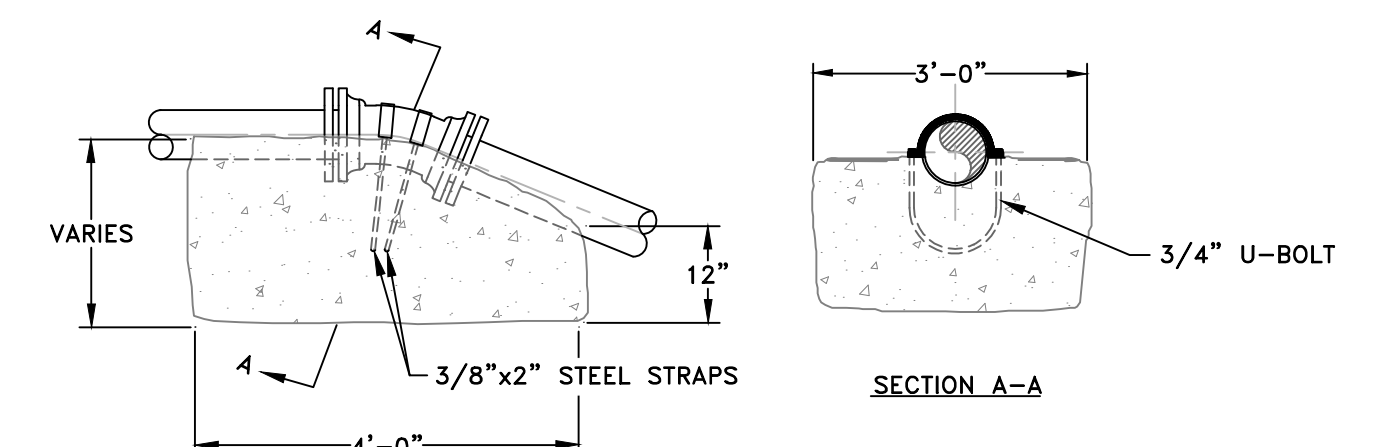
- NOTE:**
- FOR THE PURPOSE OF PAYMENT, FIRE HYDRANTS SHALL CONSIST OF THE FIRE HYDRANT PROPER, THE 6" VALVE & VALVE BOX, AND OTHER APPURTENANCES SHOWN. THE 6" PIPE WILL BE PAID FOR AT THE CONTRACT UNIT PRICE.



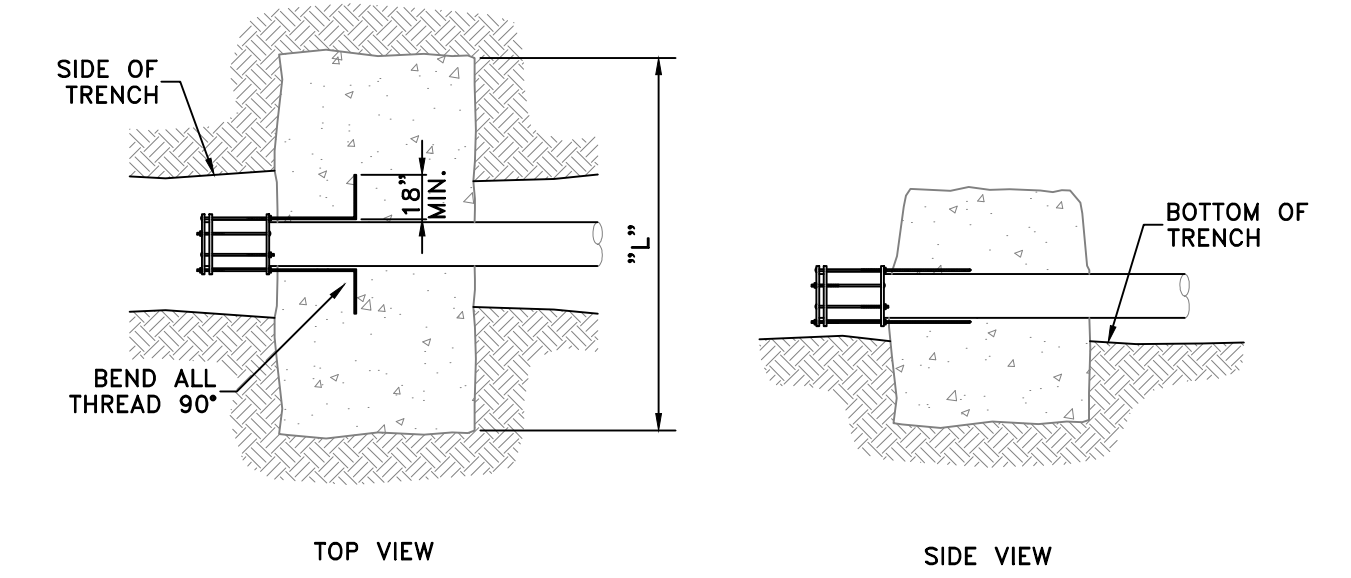
TYPICAL FIRE HYDRANT SETTING



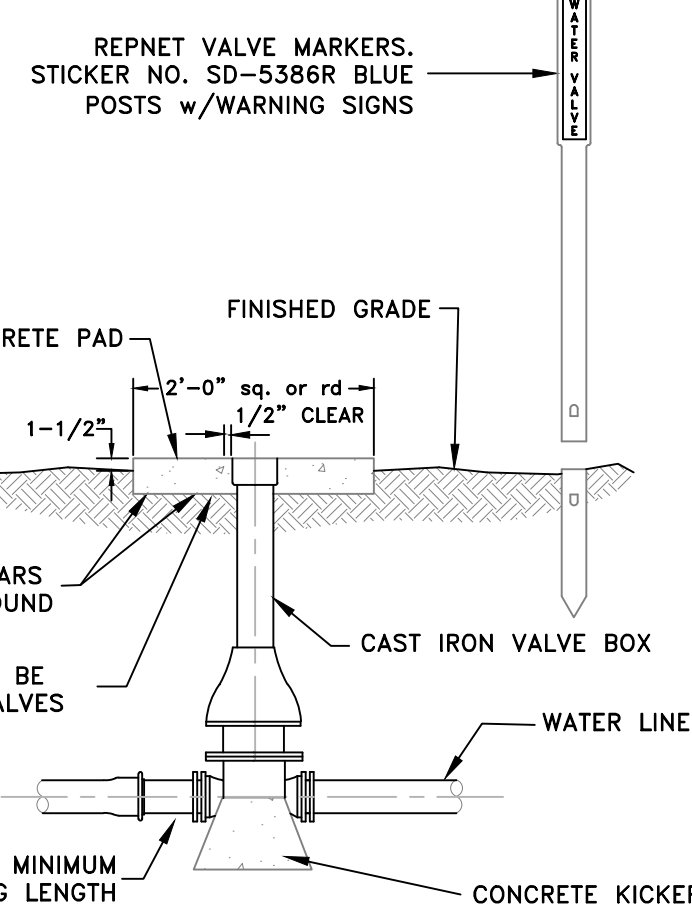
TYPICAL STONE ENVELOPE FOR LARGE PIPE OR ROCK EXCAVATION (MAY PAY QUANTITIES IN ROCK)



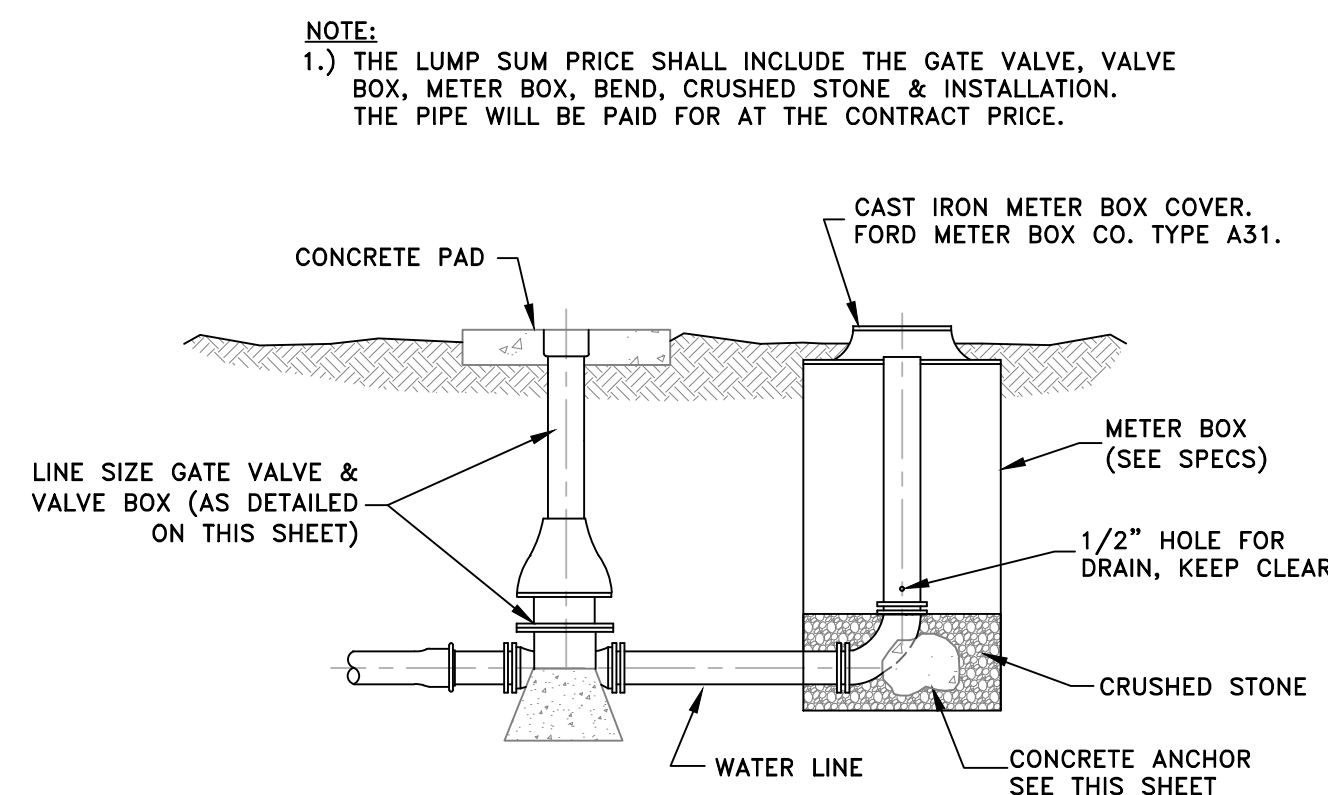
VERTICAL BEND PIPE ANCHOR DETAIL



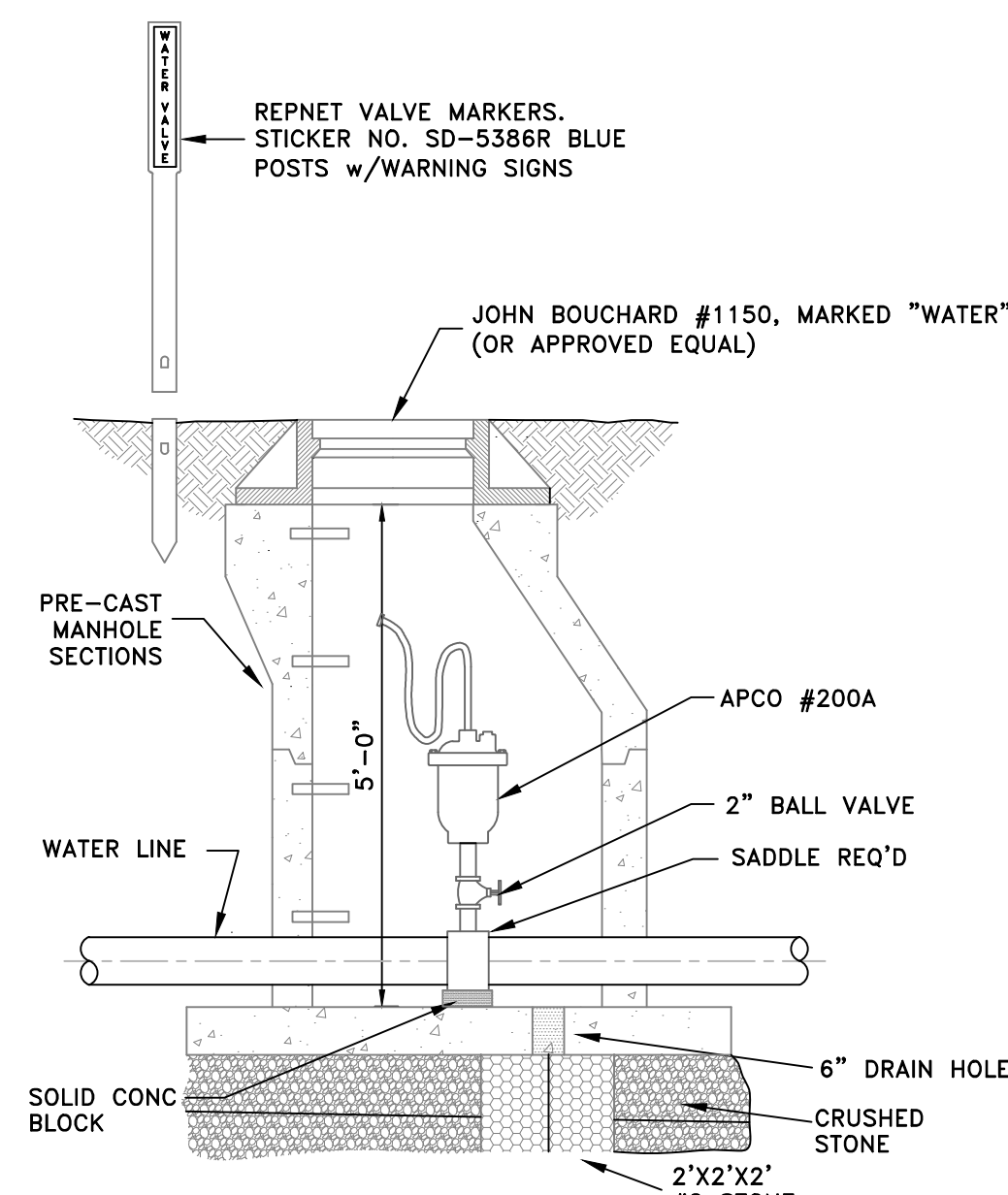
CONCRETE DEADMAN DETAIL



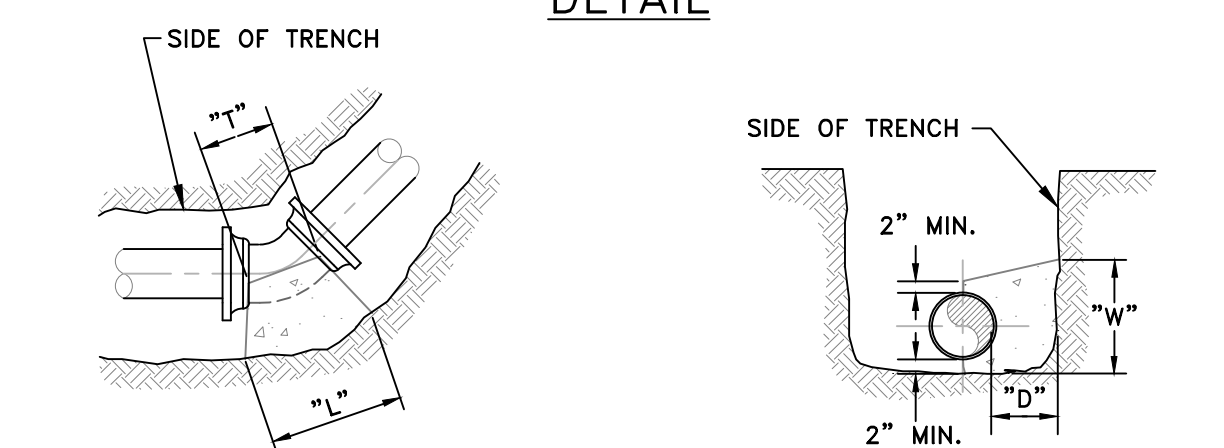
TYPICAL LINE VALVE SETTING



STANDARD DETAIL END OF LINE BLOW-OFF (SIDE OUTLET BLOWOFFS SHALL BE AS SHOWN, BUT LUMP SUM PRICE SHALL ALSO INCLUDE MAIN LINE TEE. GATE VALVE AND BLOWOFF PIPING SIZE SHALL BE AS INDICATED IN THE DRAWINGS.)

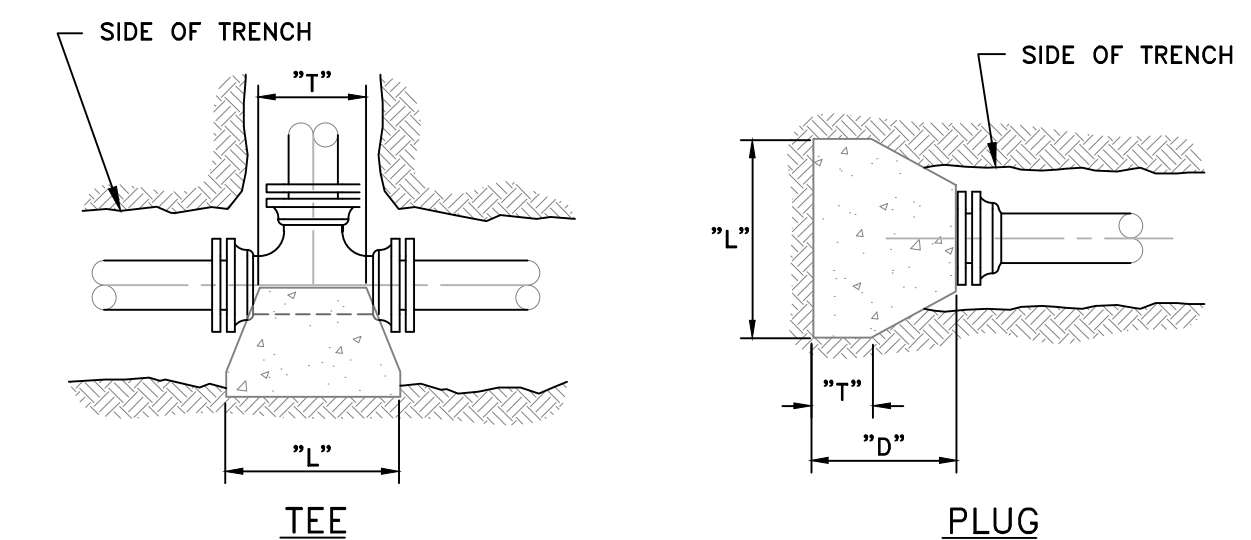


STANDARD AIR RELEASE STATION



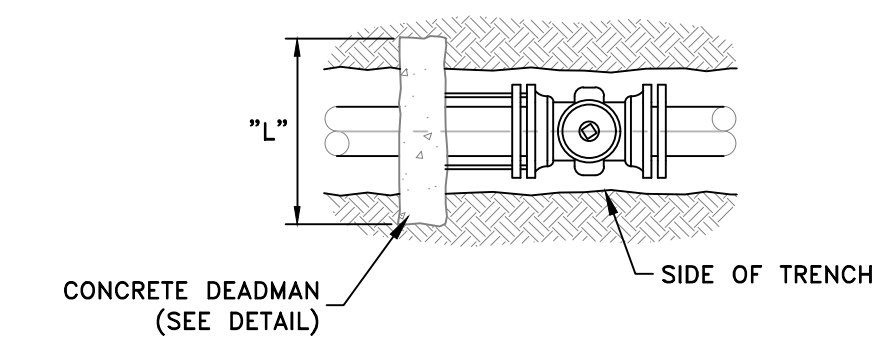
TYPICAL ALL BENDS

TYPICAL SECTION



TEE

PLUG



CONCRETE DEADMAN (SEE DETAIL)

VALVES 10" & LARGER

SIZE	90° BENDS											
	2	4	6	8	10	12	14	16	18	20	24	30
"D"	6	8	8	10	12	14	22	22	24	24	30	30
"L"	16	20	24	30	32	34	68	68	80	80	96	120
"W"	8	10	12	18	22	24	34	34	40	40	48	60
"T"	10	12	16	20	22	22	38	38	40	40	44	52

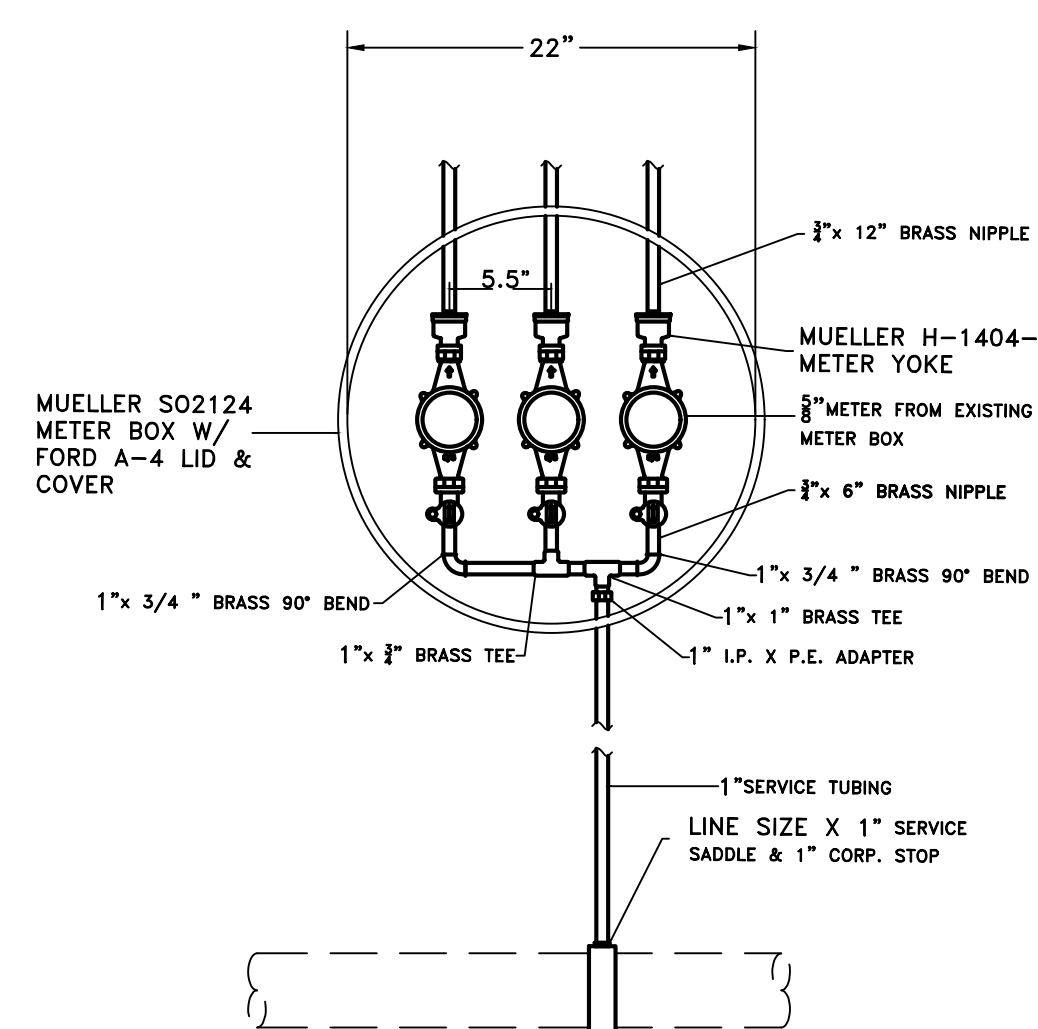
SIZE	45° BENDS											
	2	4	6	8	10	12	14	16	18	20	24	30
"D"	6	6	8	10	12	12	22	22	24	24	30	30
"L"	14	18	18	22	24	24	51	51	60	60	72	90
"W"	8	10	12	16	18	18	25	25	29	29	36	44
"T"	10	12	16	18	18	18	38	38	40	40	44	52

SIZE	22 1/2" & 11 1/4" BENDS											
	2	4	6	8	10	12	14	16	18	20	24	30
"D"	6	10	14	18	20	20	22	22	24	24	30	30
"L"	20	24	28	28	28	28	36	36	42	42	54	66
"W"	18	20	22	24	24	24	18	18	21	21	24	31
"T"	12	14	16	18	18	18	38	38	40	40	44	52

SIZE	TEES, PLUGS & BLOWOFFS											
	2	4	6	8	10	12	14	16	18	20	24	30
"D"	12	16	18	24	28	30	30	30	30	30	30	36
"L"	12	16	18	24	28	30	60	60	72	72	84	102
"W"	14	16	18	18	22	24	28	28	32	32	40	51
"T"	10	10	12	12	12	12	38	38	40	40	44	52

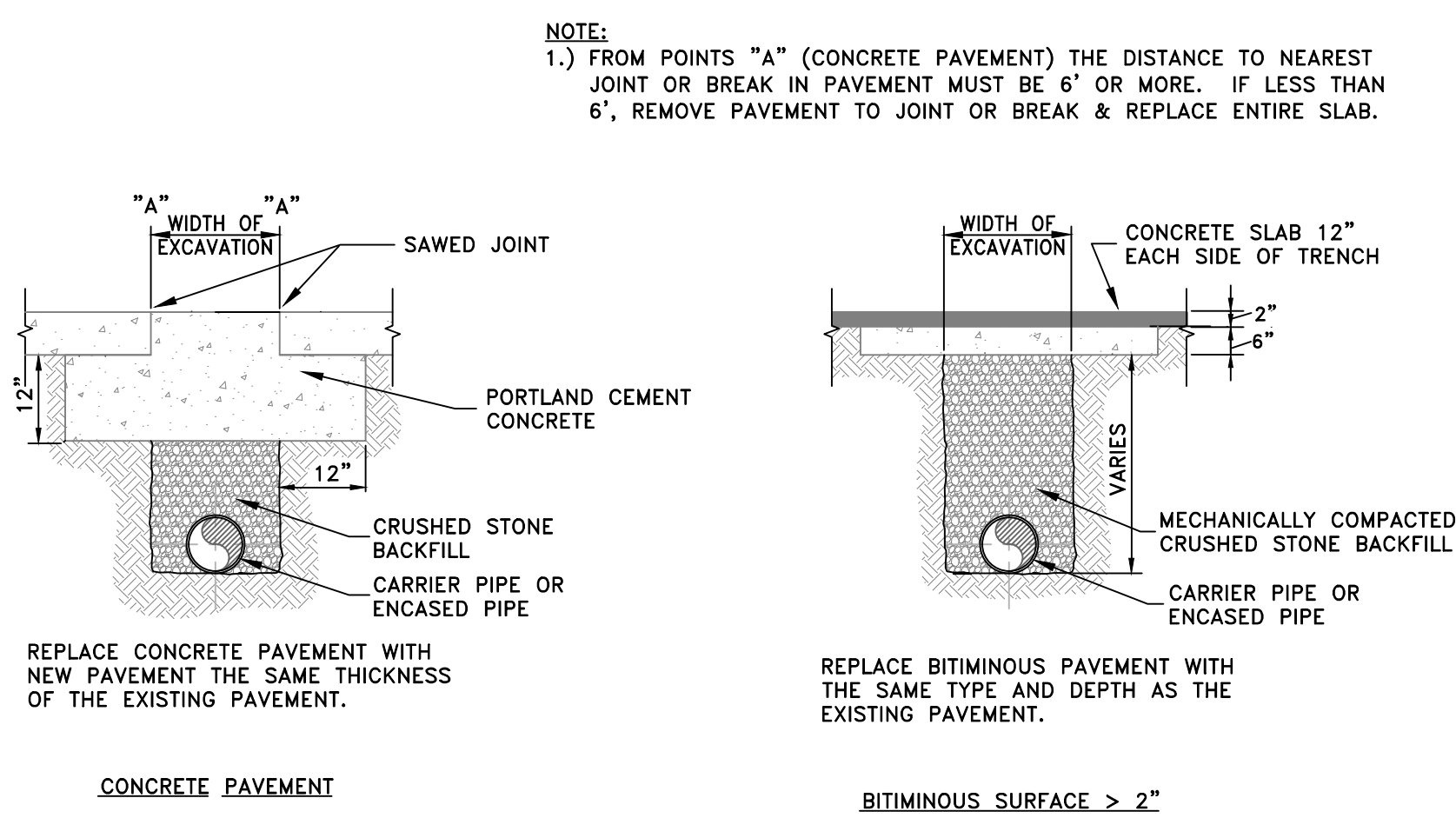
*ALL DIMENSIONS ARE IN INCHES

MINIMUM CONCRETE BLOCKING FOR PIPE & FITTINGS



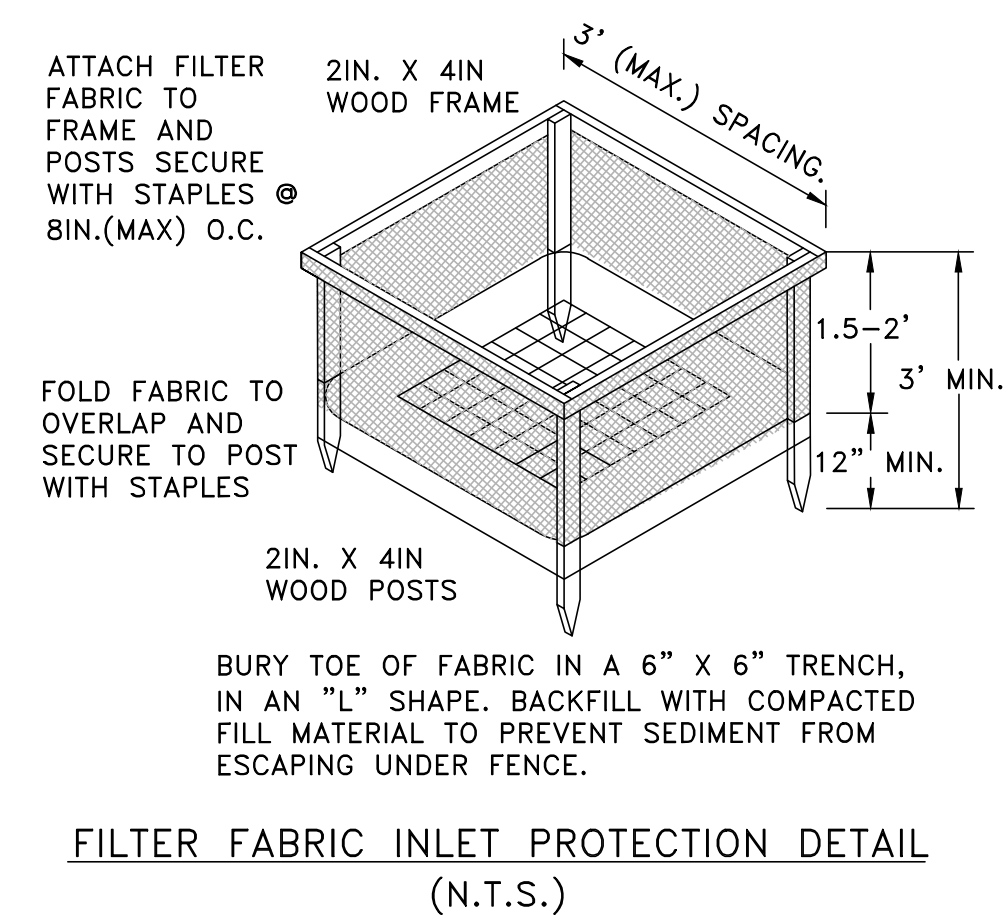
TYPICAL MULTIMETER SETTING (FOR THREE 3/4" METERS IN 21" BOX)

- NOTE:**
- ALL PIPING SHOWN INSIDE BOX SHALL BE BRASS WITH THE LENGTHS OF THE BRASS NIPPLES BETWEEN THE TEES AND 90° BENDS AS NEEDED TO MEET THE CENTERLINE MEASUREMENTS AS INDICATED.



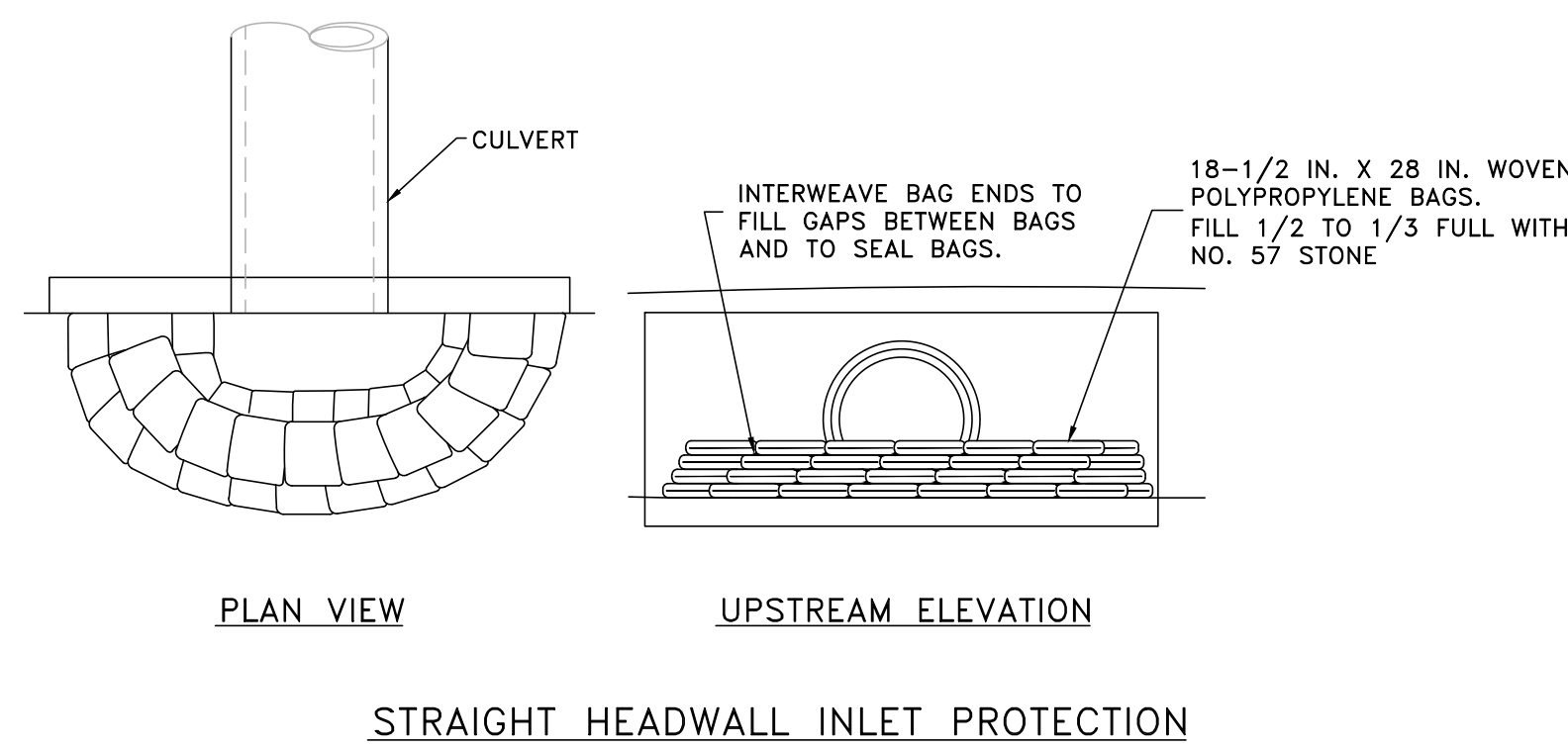
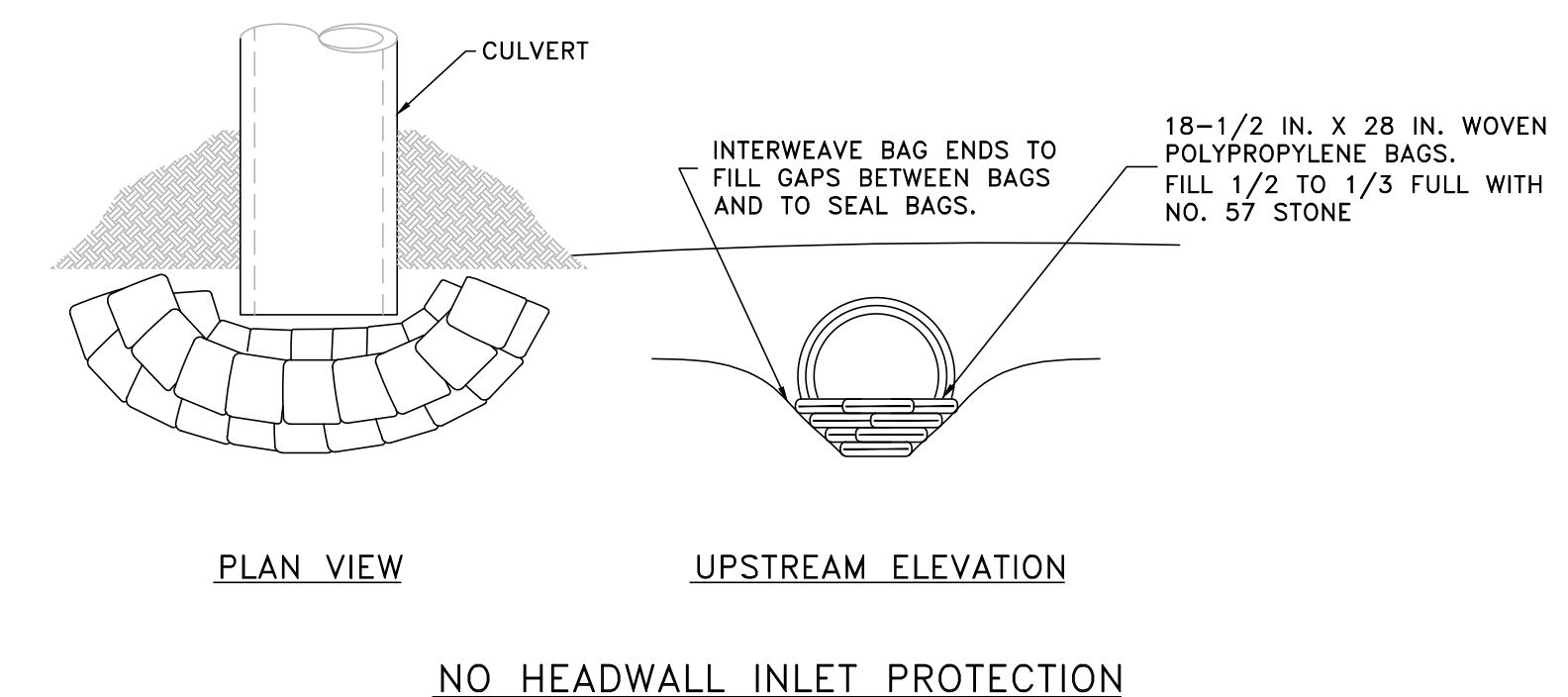
SURFACE RESTORATION (FOR CROSSING OF ALL STREETS & HIGHWAYS)

- NOTES:**
- THE COST OF THE U-BOLTS, STRAPS & ANCHOR BAR WILL BE ABSORBED INTO THE COST OF THE CONCRETE. NO SEPARATE PAYMENT WILL BE MADE.
 - ALL VERTICAL BENDS SHALL INCLUDE ROMAC GRIP RINGS.
 - CONCRETE TO BE POURED AGAINST UNDISTURBED EARTH.
 - PLASTIC BARRIER SHALL BE PLACED BETWEEN ALL CONCRETE AND PIPE AND/OR FITTINGS.
 - ANCHOR BAR SHALL BE 5/8" MINIMUM DIAMETER.
 - BLOCKING FOR REDUCER SHALL BE AS THAT SHOWN FOR PLUGS, BUT THE "L" DIMENSION SHALL BE AS REQUIRED FOR THE KICKER TO EXTEND 6" INTO EACH SIDE OF THE TRENCH.
 - RODDING FOR A CONCRETE DEADMAN SHALL BE AS FOLLOWS: 5/4" USE 2 RODS, 6"-10" USE 4 RODS & ≥12" PER ENGINEER.



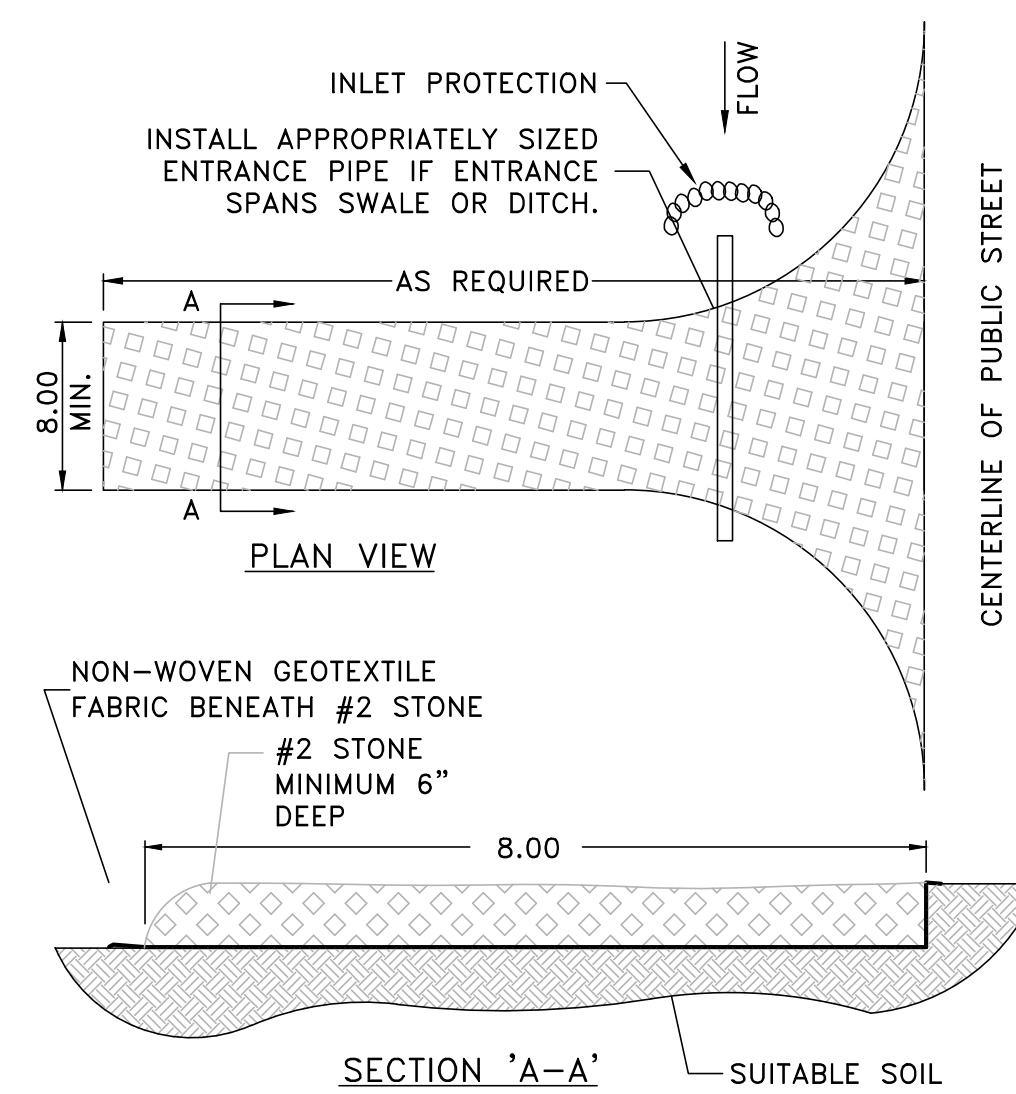
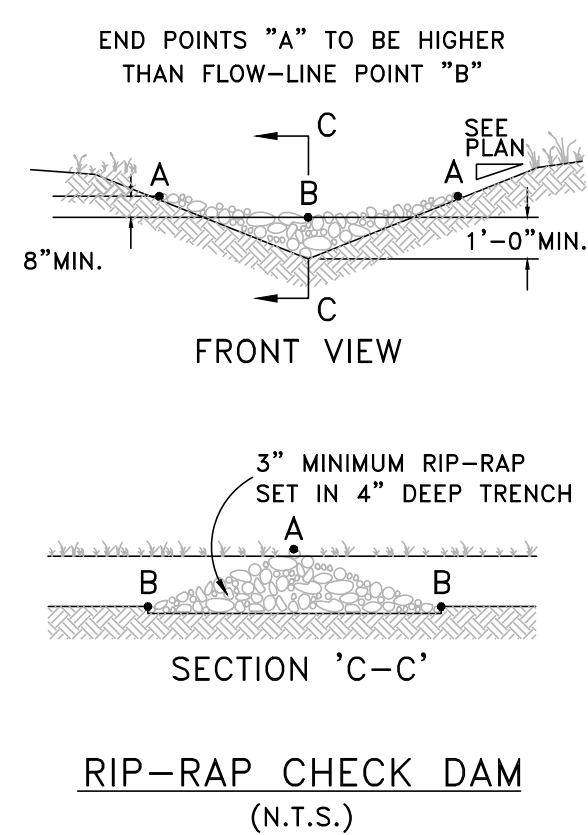
FILTER FABRIC INLET PROTECTION DETAIL
(N.T.S.)

- GENERAL EPSC NOTES:
1. ALL PRACTICAL MEASURES SHALL BE TAKEN TO PRESERVE EXISTING VEGETATION ON AND ADJACENT TO THE CONSTRUCTION SITE(S).
 2. EPSC MEASURES SHALL BE INSTALLED IN ADVANCE OF ALL OTHER CONSTRUCTION IN EACH AREA OF CONSTRUCTION.
 3. SILT FENCING OR OTHER APPROVED EPSC DEVICE(S) SHALL BE INSTALLED ON THE DOWN-SLOPE SIDE OF TEMPORARY STOCKPILES, AS REQUIRED.
 4. APPROPRIATE EPSC DEVICES SHALL BE INSTALLED AT TEMPORARY PIPE YARDS AND/OR STORAGE AREAS, AS REQUIRED.

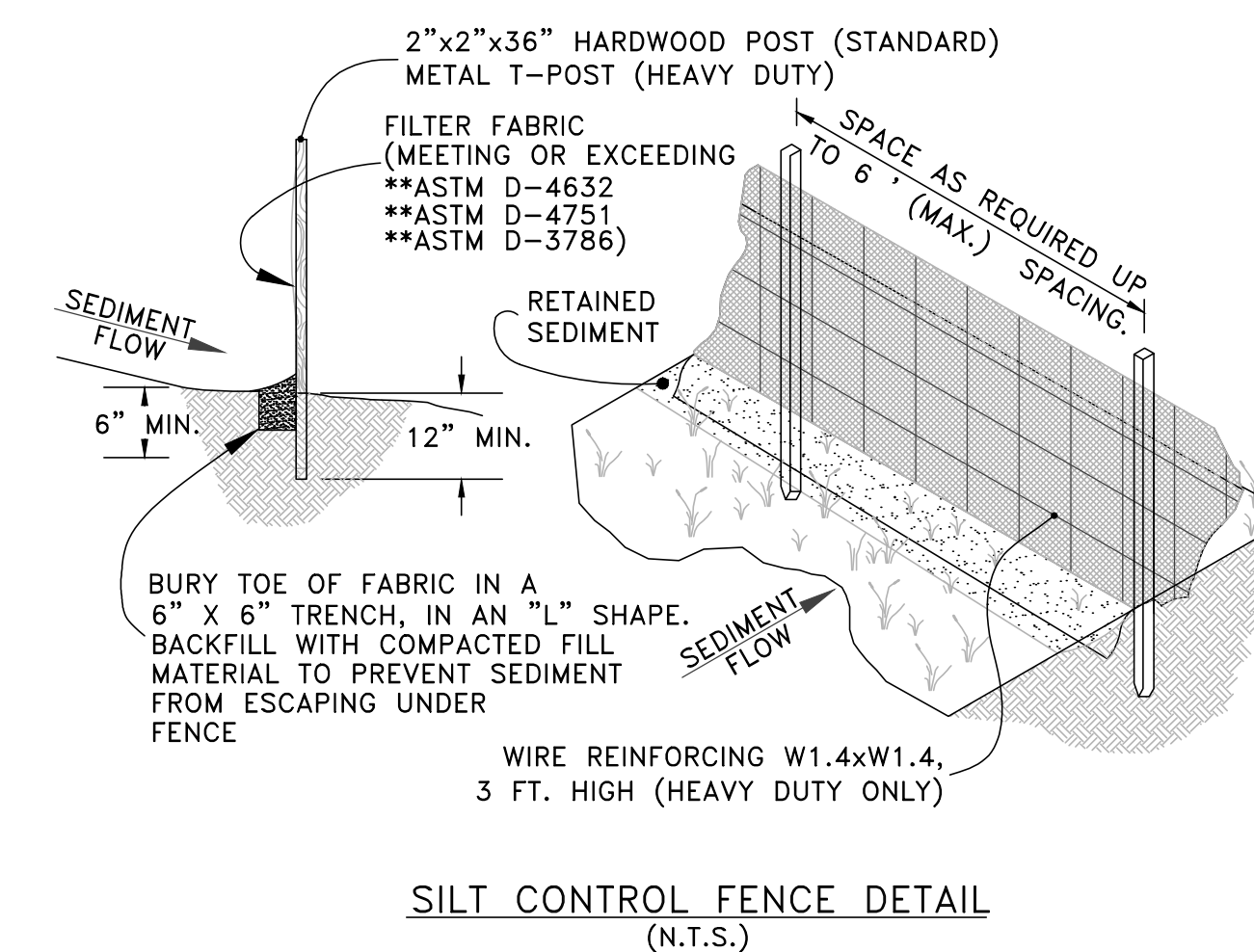


PURPOSE:
INSTALL STONE BAG PROTECTION AT HEADWALL INLETS TO POOL WATER, PROVIDING OPPORTUNITY FOR SETTLING SEDIMENT BEFORE IT ENTERS HEADWALL.

CONSTRUCTION:
BAG SPECIFICATIONS: APPROXIMATELY 18 1/2-INCH X 28-INCH WOVEN POLYPROPYLENE BAGS. STONE: USE KTC NO. 57 STONE. HEIGHT OF STONE BAGS ABOVE CULVERT INVERTS: CONSTRUCT A MINIMUM OF TWO COURSES OF BAGS. THE STONE-FILLED BAGS SHALL BE STACKED TO A HEIGHT EQUAL TO 1/2 THE DIAMETER OF THE CULVERT BEING PROTECTED.



ALL ENTRANCES LEADING TO PUBLIC ROADS SHALL BE STABILIZED, IF SILT FENCE WILL BE DEPOSITED ON ROADWAY, BY REMOVING THE VEGETATION, PLACING NON-WOVEN GEO-TEXTILE MATERIAL AND THEN PLACING 6 INCHES OF #2 AGGREGATE. AREA MUST BE A MINIMUM OF 8 FEET WIDE.
STABILIZED CONSTRUCTION ENTRANCE DETAIL
(N.T.S.)



SCALE: NOT TO SCALE

DATE: 1-30-08

DWG NO.: WD

DESIGNED: WCWD

DRAWN: JT

CHECKED: JES

REVISIONS:

NO.: DATE:

SHEET:

ECD