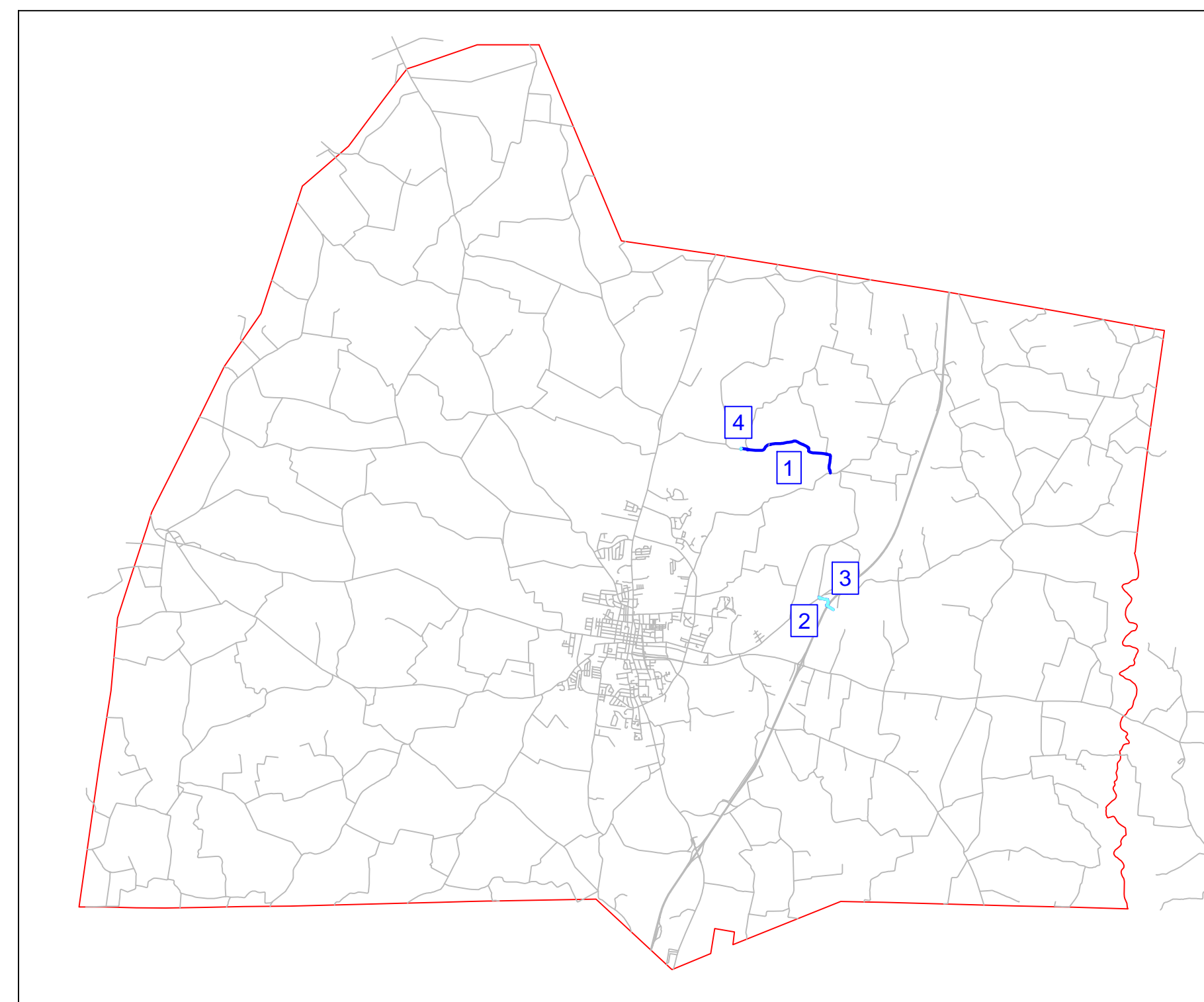


FRITZ-WINTER CAPACITY IMPROVEMENTS

50% OF PROJECT FUNDING PROVIDED BY: USDC-EDA (INVESTMENT #04-01-07240)
50% OF PROJECT FUNDING PROVIDED BY: USDA-RD



VICINITY MAP
(N.T.S.)



Simpson County
Water District



INDEX OF DRAWINGS

SHEET #	DESCRIPTION
1	SALMONS BLACKJACK ROAD STA. 0+00 TO 13+00
2	SALMONS BLACKJACK ROAD STA. 13+00 TO 29+00
3	SALMONS BLACKJACK ROAD STA. 29+00 TO 43+50
4	SALMONS BLACKJACK ROAD STA. 43+50 TO 58+50
5	SALMONS BLACKJACK ROAD STA. 58+50 TO 74+00
6	SALMONS BLACKJACK ROAD STA. 74+00 TO 88+00
7	SALMONS BLACKJACK ROAD STA. 88+00 TO 104+00
8	SALMONS BLACKJACK ROAD STA. 104+00 TO END
9	HENDERSON INDUSTRIAL PARK 12" PVC CONNECTOR - FULL LINE
10	I-65 & CREEK CROSSING PROFILES
11	MASTER METER SITE & DETAIL
12	PUMP STATION SITE & DETAIL
WD	WATER DETAIL SHEET
ECP	EROSION CONTROL DETAIL SHEET

GENERAL NOTE: ALL LINES INSTALLED IN COUNTY RIGHT-OF-WAY SHALL BE INSTALLED WITH A MINIMUM COVER OF 36".

EROSION CONTROL NOTE: EROSION CONTROL MEASURES SHALL BE UTILIZED AS REQUIRED BY PROVIDED SWPPP DOCUMENTATION AND BEST PRACTICES MANUAL FOR BOWLING GREEN, KY.

ARCHAEOLOGICAL NOTE: IN THE EVENT THAT HUMAN REMAINS ARE ENCOUNTERED DURING PROJECT ACTIVITIES, ALL WORK SHOULD BE IMMEDIATELY STOPPED IN THE AREA AND THE AREA CORDONED OFF, AND IN ACCORDANCE WITH KRS 72.020 THE COUNTY CORONER AND LOCAL LAW ENFORCEMENT MUST BE CONTACTED IMMEDIATELY. UPON CONFIRMATION THAT THE HUMAN REMAINS ARE NOT OF FORENSIC INTEREST, THE UNANTICIPATED DISCOVERY MUST BE REPORTED TO THE KENTUCKY HERITAGE COUNCIL.

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 # _____



SCALE: 1"=50'
DATE: 8/23/19
PROJECT #: 43339
DESIGNED: JNL
DRAWN: JNL
CHECKED: RJL

REVISIONS:

NO.:	DATE:

STATE OF KENTUCKY
RYAN J. EISEN
20728
LICENSED PROFESSIONAL ENGINEER
8/23/19

UTILITY NOTE
UTILITIES SHOWN HEREON WERE LOCATED FROM ACTUAL FIELD EVIDENCE. EXISTING UTILITY AGENCIES RECORDS AND ANY OTHER AVAILABLE EVIDENCE. OTHER UTILITIES MAY EXIST AND NOT BE SHOWN OR VARY FROM WHERE SHOWN. NO GUARANTEE IS EXPRESSED OR IMPLIED AS TO THE ACTUAL LOCATION OF UTILITIES SHOWN HEREON, BUT NOT VISIBLE FROM THE SURFACE. CONTRACTOR SHALL CONFIRM THE ACTUAL LOCATIONS OF ALL OTHER EXISTING UTILITIES PRIOR TO INSTALLATION OF THE PIPELINE IN ORDER TO ENSURE ALL UTILITY CONFLICTS CAN BE AVOIDED OR MINIMIZED.



JIMMY GOMER

MATCHLINE STA. 13+00
SEE SHEET 1

13+00

14+00

15+00

16+00

17+00

18+00

19+00

20+00

Salmons Blackjack Rd

1434

Salmons Blackjack Rd

1434

EXIST. 3" PVC WATERLINE

WILLIAM D. JOHNSON



NOTE:
 ALL BRAD KELLEY PROPERTIES:
 WATERLINE TO BE INSTALLED APPROXIMATELY
 5' FROM ROW AND NO MORE THAN 30' FROM
 C/L OF ROAD UNLESS IT INTERFERES WITH AN
 EXISTING UTILITY OR FENCE.

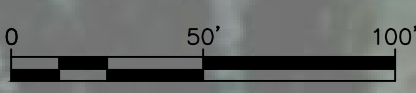
NOTES:
 1) WATERLINE TO BE INSTALLED IN
 STATE R/W STA. 30+00 TO
 STA. 31+50 AROUND BARN

PROPOSED 8" CLASS 200
 PVC WATERLINE

EXIST. 3" PVC WATERLINE

EXIST. 3" PVC WATERLINE

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FRITZ WINTER CAPACITY IMPROVEMENTS
PROJECT #43339
SALMONS BLACKJACK ROAD, 8" PVC WATERLINE

SCALE: 1"=50'
 DATE: 8/23/19
 PROJECT #: 43339
 DESIGNED: JNL
 DRAWN: JNL
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REVISIONS:

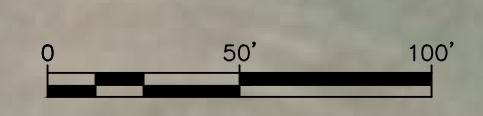
NO.:	DATE:





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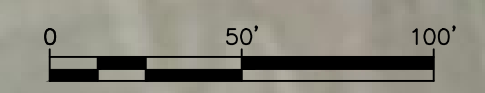


FRITZ WINTER CAPACITY IMPROVEMENTS
PROJECT #43339
SALMONS BLACKJACK ROAD, 8" PVC WATERLINE



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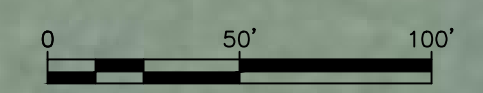
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SALMONS BLACKJACK ROAD, 8" PVC WATERLINE

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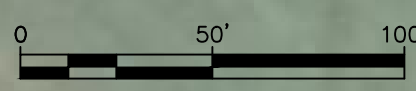
NO.:	DATE:

STATE OF KENTUCKY
 RYAN J. EISEN
 28728
 LICENSED PROFESSIONAL ENGINEER
 8/23/19



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 PROJECT #43339
 SALMONS BLACKJACK ROAD, 8" PVC WATERLINE

SCALE: 1"=50'
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REVISIONS:

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 RYAN J. LEISEY
 28728
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 8/23/19

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SALMONS BLACKJACK ROAD, 8" PVC WATERLINE

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DATE: 8/23/19
PROJECT #: 43339
DESIGNED: JNL
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REVISIONS:

NO.:	DATE:

STATE OF KENTUCKY
RYAN J. LEISEY
28728
LICENSED PROFESSIONAL ENGINEER
8/23/19



FRITZ WINTER CAPACITY IMPROVEMENTS
PROJECT #43339
I-65 CROSSING, 12" PVC WATERLINE

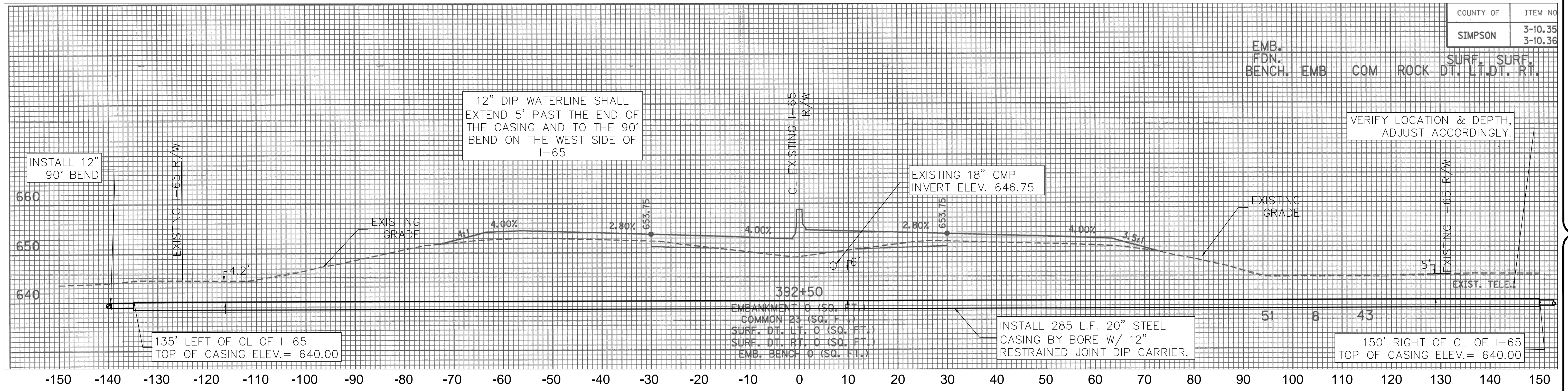
SCALE: 1"=60'
DATE: 8/23/19
PROJECT #: 43339
DESIGNED: JNL
DRAWN: JNL & KH
CHECKED: RJL

REVISIONS:

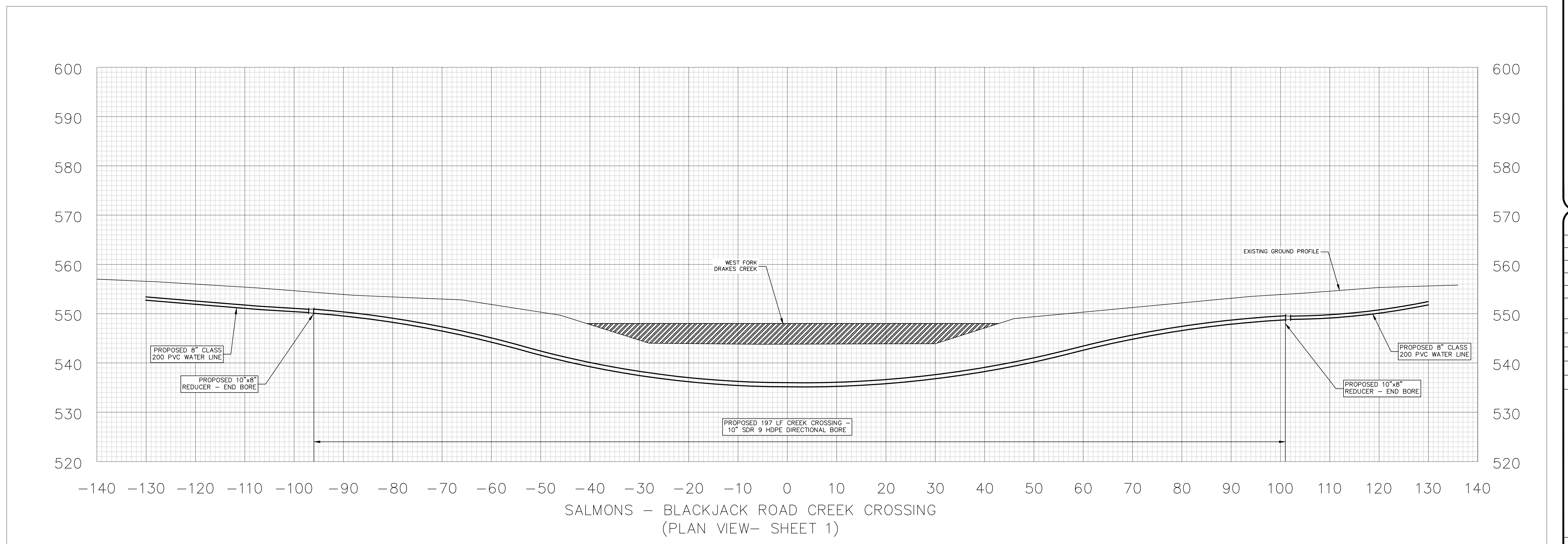
NO.:	DATE:

STATE OF KENTUCKY
RYAN J. EISEN
201728
LICENSED PROFESSIONAL ENGINEER
8/23/19

COUNTY OF	ITEM NO
SIMPSON	3-10.35 3-10.36



I-65 CROSS SECTION
(PLAN VIEW - SHEET 9)



SALMONS - BLACKJACK ROAD CREEK CROSSING
(PLAN VIEW - SHEET 1)

SCALE: 1" = 10'

DATE: 8/23/19

PROJECT #: 43339

DESIGNED: JNL

DRAWN: JNL & KH

CHECKED: RJL

REVISIONS:

NO.:	DATE:



SCALE: NTS
DATE: 8/23/19
PROJECT #: 43339
DESIGNED: JNL
DRAWN: JNL
CHECKED: RJL

REVISIONS:

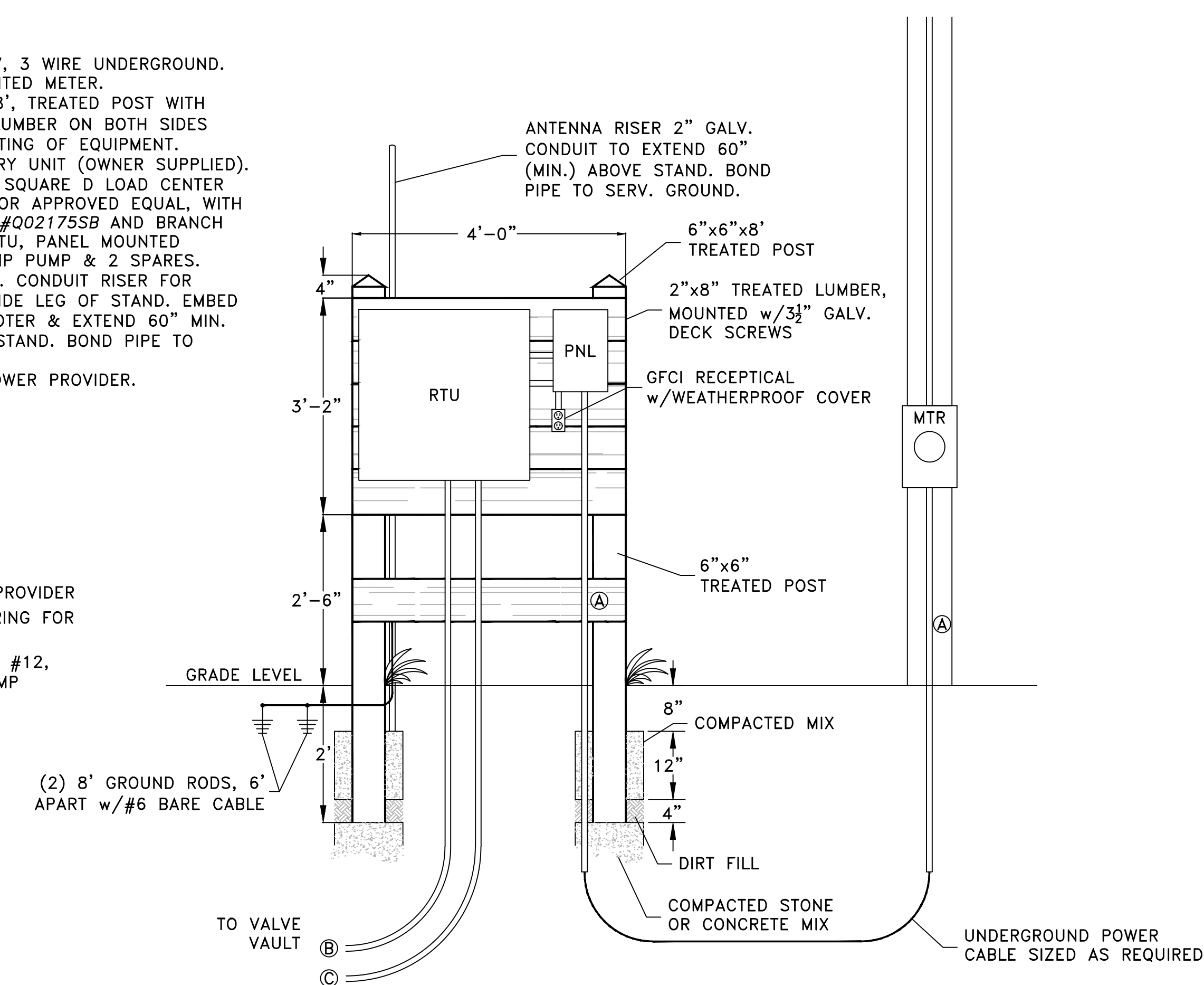
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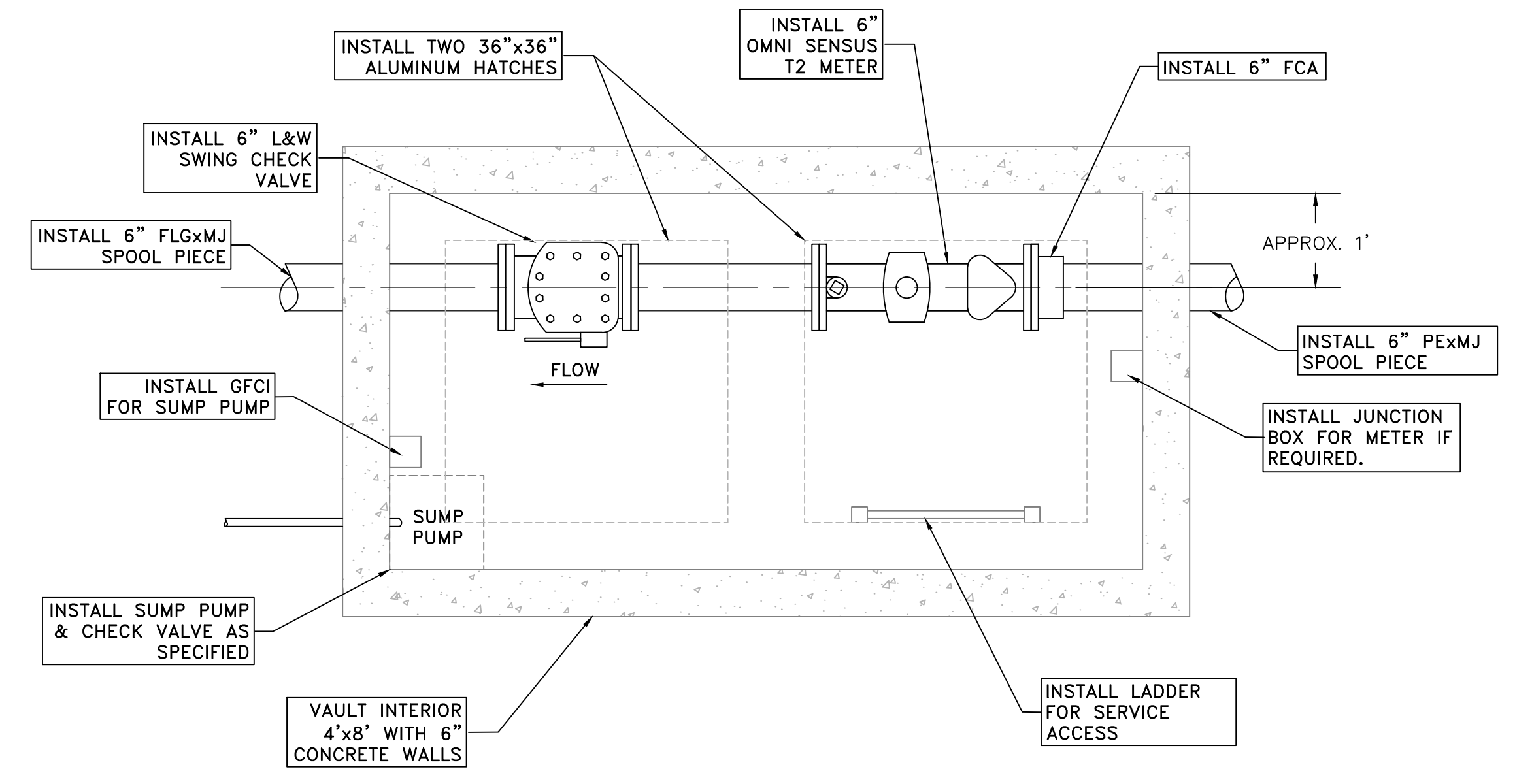
8/23/19

- SERVICE - 100A, 1PH, 240V, 3 WIRE UNDERGROUND. FOR PANEL MOUNTED METER.
- STAND - WOOD - 6"x6"x8', TREATED POST WITH 2"x8" TREATED LUMBER ON BOTH SIDES FOR SOLID MOUNTING OF EQUIPMENT.
- RTU - REMOTE TELEMETRY UNIT (OWNER SUPPLIED).
- PNL - BREAKER PANEL, SQUARE D LOAD CENTER #Q0120M100RB, OR APPROVED EQUAL, WITH SURGE BREAKER #Q02175SB AND BRANCH BREAKERS FOR RTU, PANEL MOUNTED RECEPTACLE, SUMP PUMP & 2 SPARES.
- ANTENNA RISER - INSTALL 2" GALV. CONDUIT RISER FOR ANTENNA ON INSIDE LEG OF STAND. EMBED IN CONCRETE FOOTER & EXTEND 60" MIN. ABOVE WOODEN STAND. BOND PIPE TO SERVICE GROUND.
- MTR - AS REQ'D. BY POWER PROVIDER.

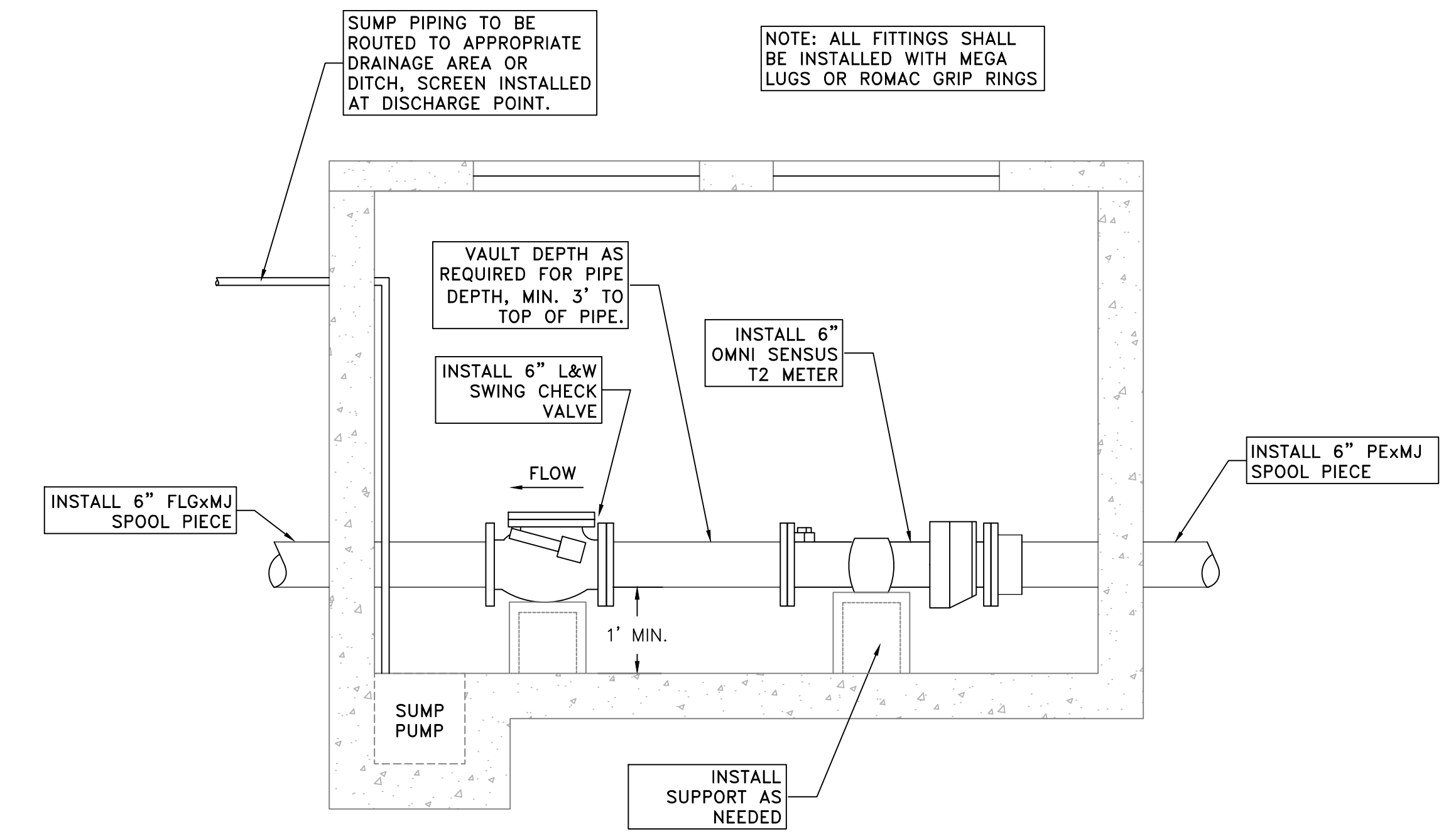
- CONDUIT SCHEDULE:
- A - AS REQ'D. BY POWER PROVIDER
 - B - 3/4" PVC CONDUIT w/STRING FOR METER CABLE
 - C - 3/4" PVC CONDUIT w/(2) #12, GROUND FOR SUMP PUMP



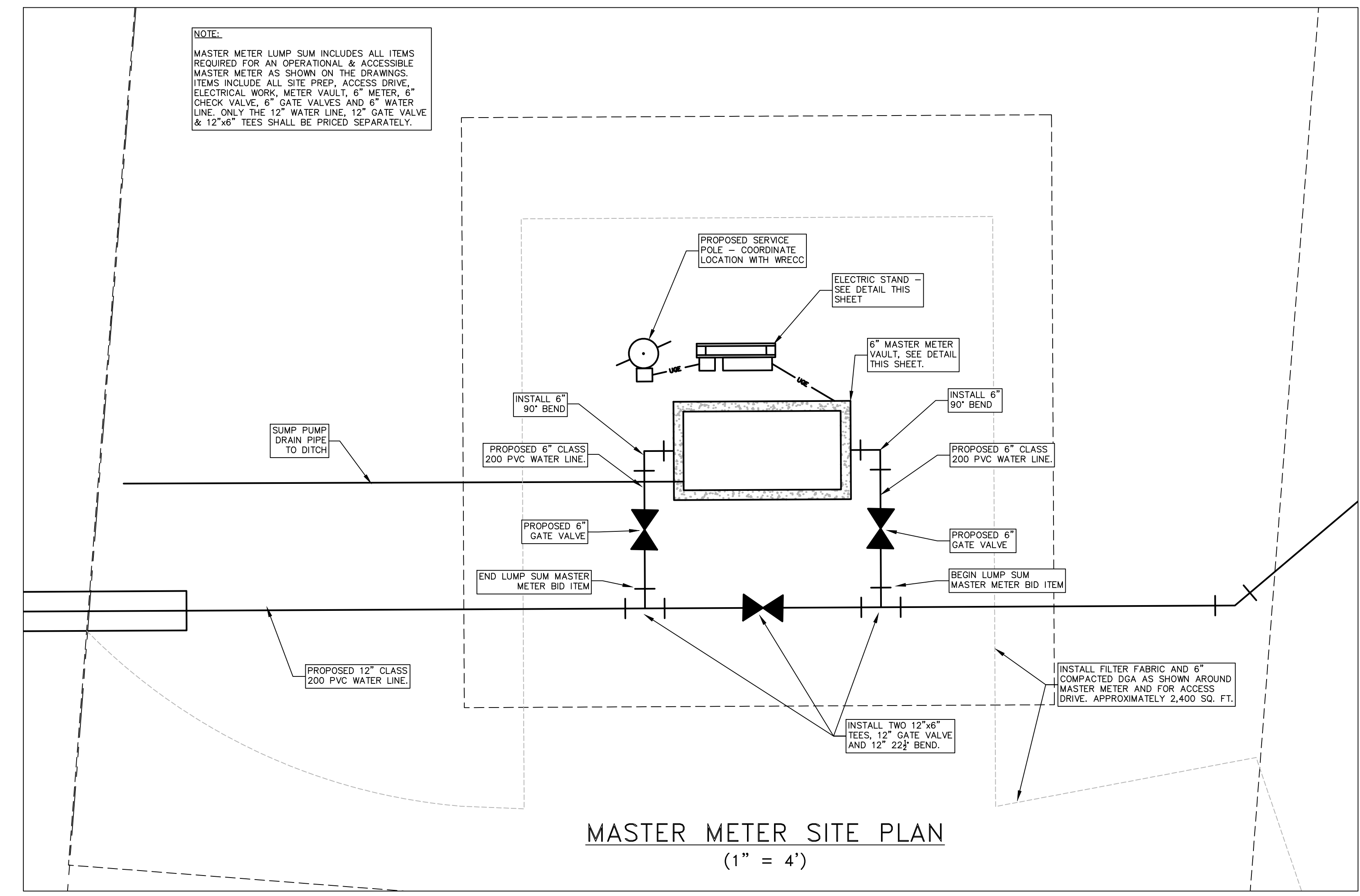
MASTER METER ELECTRICAL DETAIL
(N.T.S.)



MASTER METER VAULT DETAIL
(N.T.S.)



MASTER METER VAULT PROFILE
(N.T.S.)



MASTER METER SITE PLAN
(1" = 4")



GENERAL NOTES

PUMP STATION DESIGN SHOWN IS INTENDED TO SHOW A ROUGH ESTIMATE FOR PUMP STATION SIZE AND LAYOUT BASED ON PREVIOUS PUMP STATIONS OF SIMILAR TYPE. THE EQUIPMENT SHOWN INDICATES THE TYPE OF EQUIPMENT THAT WILL BE REQUIRED FOR A COMPLETE OPERATIONAL PUMP STATION. THE PACKAGE PUMP STATION MANUFACTURER & SUPPLIER IS RESPONSIBLE FOR FINAL DESIGN OF PUMP STATION, WITH FINAL APPROVAL BY OWNER.

ALL PIPING AND EQUIPMENT WILL BE ADEQUATELY SUPPORTED AND BRACED

CAPSULE & STRUCTURAL STEEL: ASTM A-36

STRUCTURAL TUBING: A500, GRADE B

SCHEDULE 40 STEEL PIPE

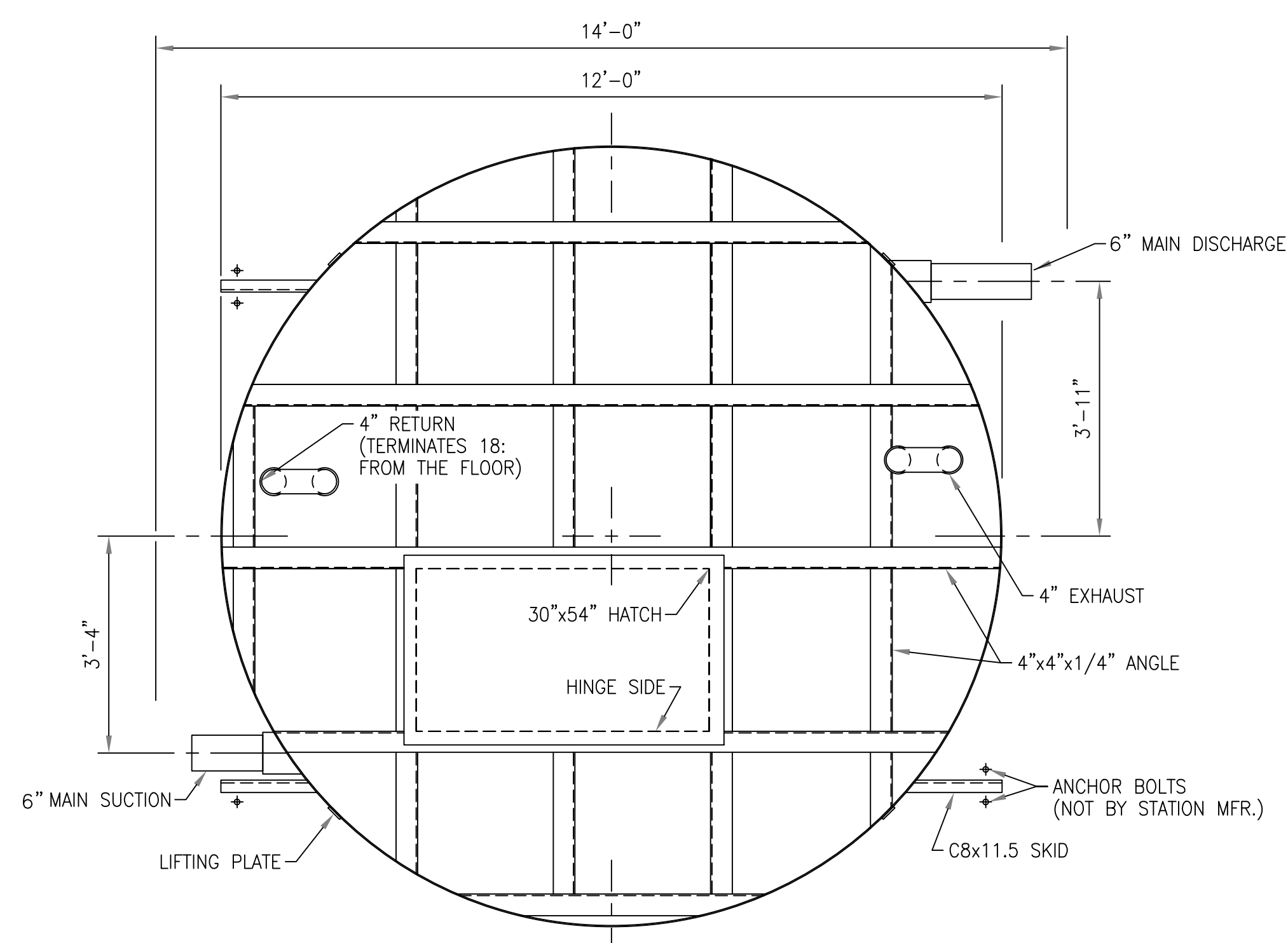
CONTRACTOR'S NOTES

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

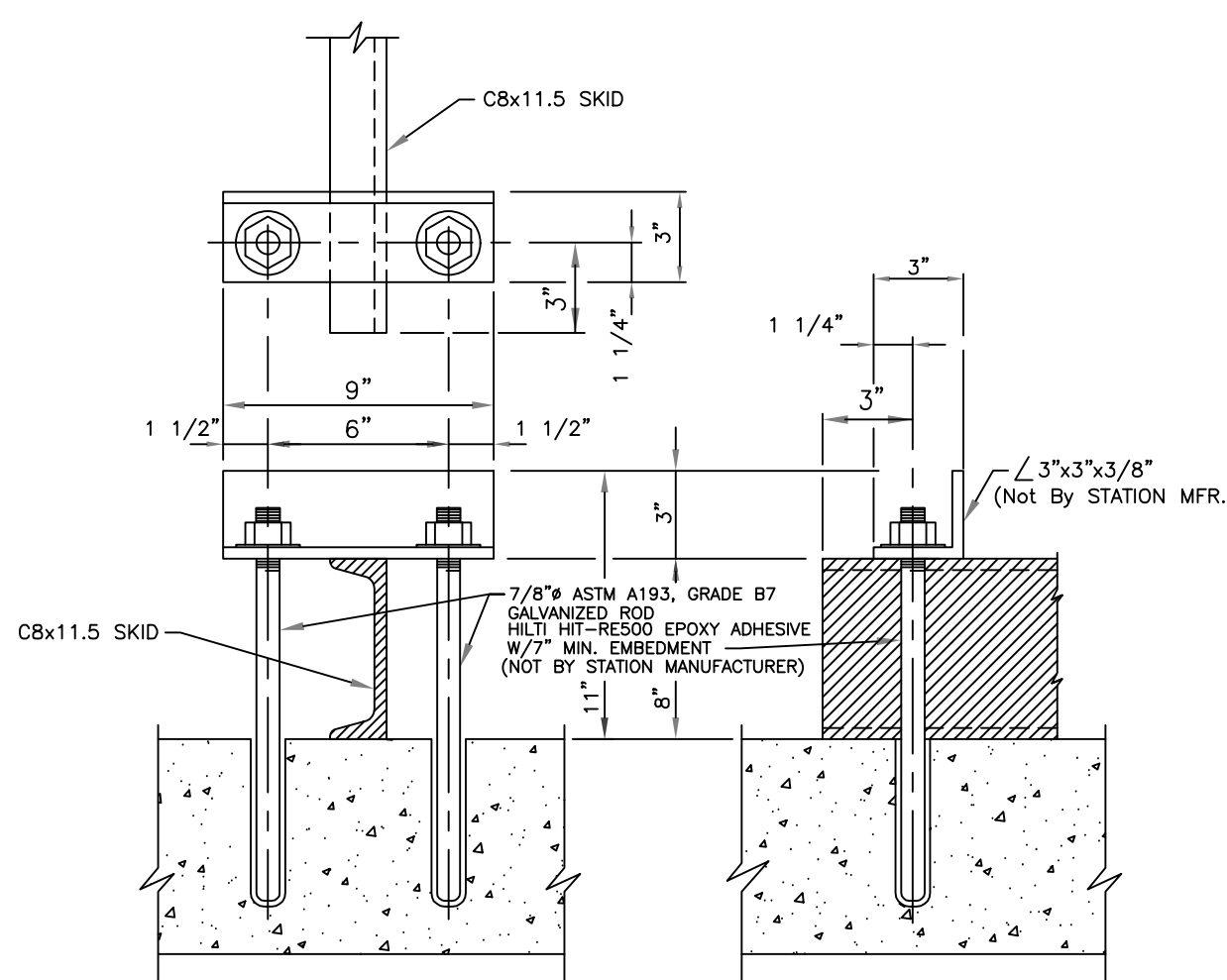
DO NOT SHIM STATION. IT IS INTENDED THAT THE MAIN FLOOR MEMBERS BE IN CONTINUOUS CONTACT WITH THE CONCRETE PAD.

PLEASE NOTE ORIENTATION OF THE INLET AND OUTLET PIPE AND ELECTRICAL CONDUIT LOCATIONS IN REFERENCE TO THE JOBSITE LAYOUT. CONFIRMATION OF THESE ORIENTATIONS ON PUMP STATION SUBMITTALS IS REQUIRED

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.

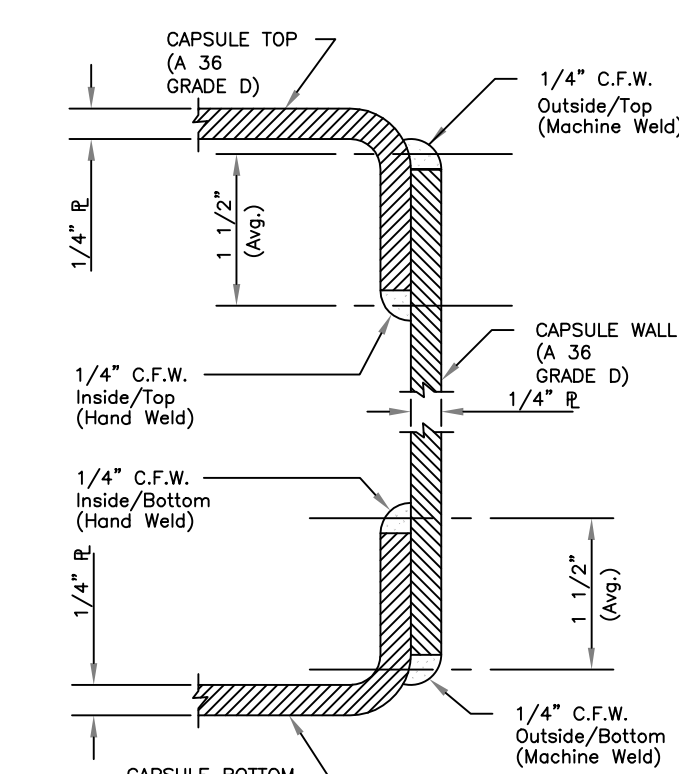


EXTERIOR PLAN



TYPICAL ANCHOR DETAIL

NOTES: ANCHOR ANGLE, BOLTS, NUTS, & ADHESIVE CAPSULE NOT BY STATION MFR. CONCRETE MUST HAVE A MINIMUM F_c OF 3500 PSI FOR PROPER ANCHORAGE.



LAP JOINT CONNECTION OF CAPSULE WALL PLATE WITH FLANGE TOP AND BOTTOM

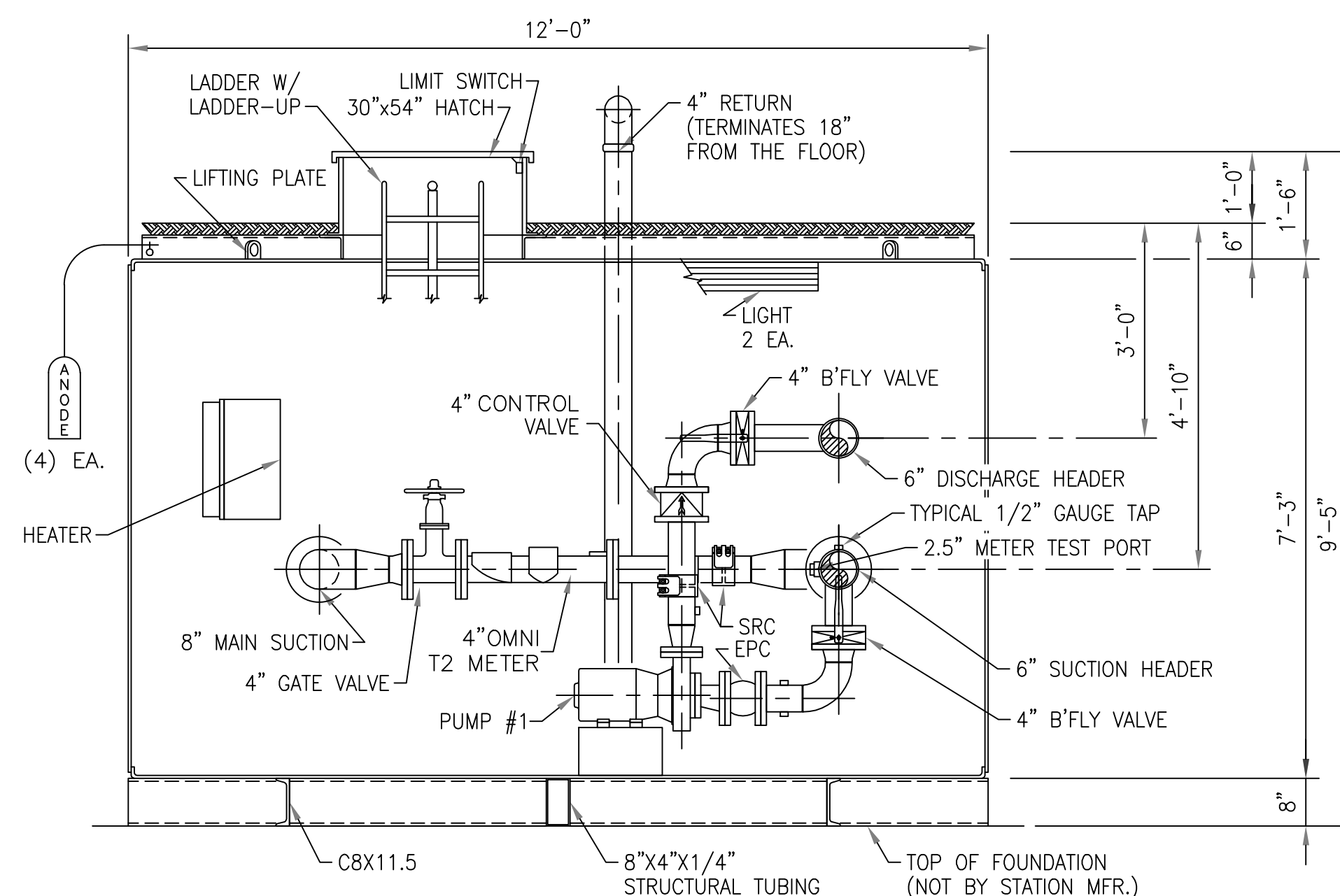
DESIGN CRITERIA

Controls: TELEMETRY (NOT BY STATION MFR.)
Power Service: 240 Volts, 3 Phase, 60 Cycle

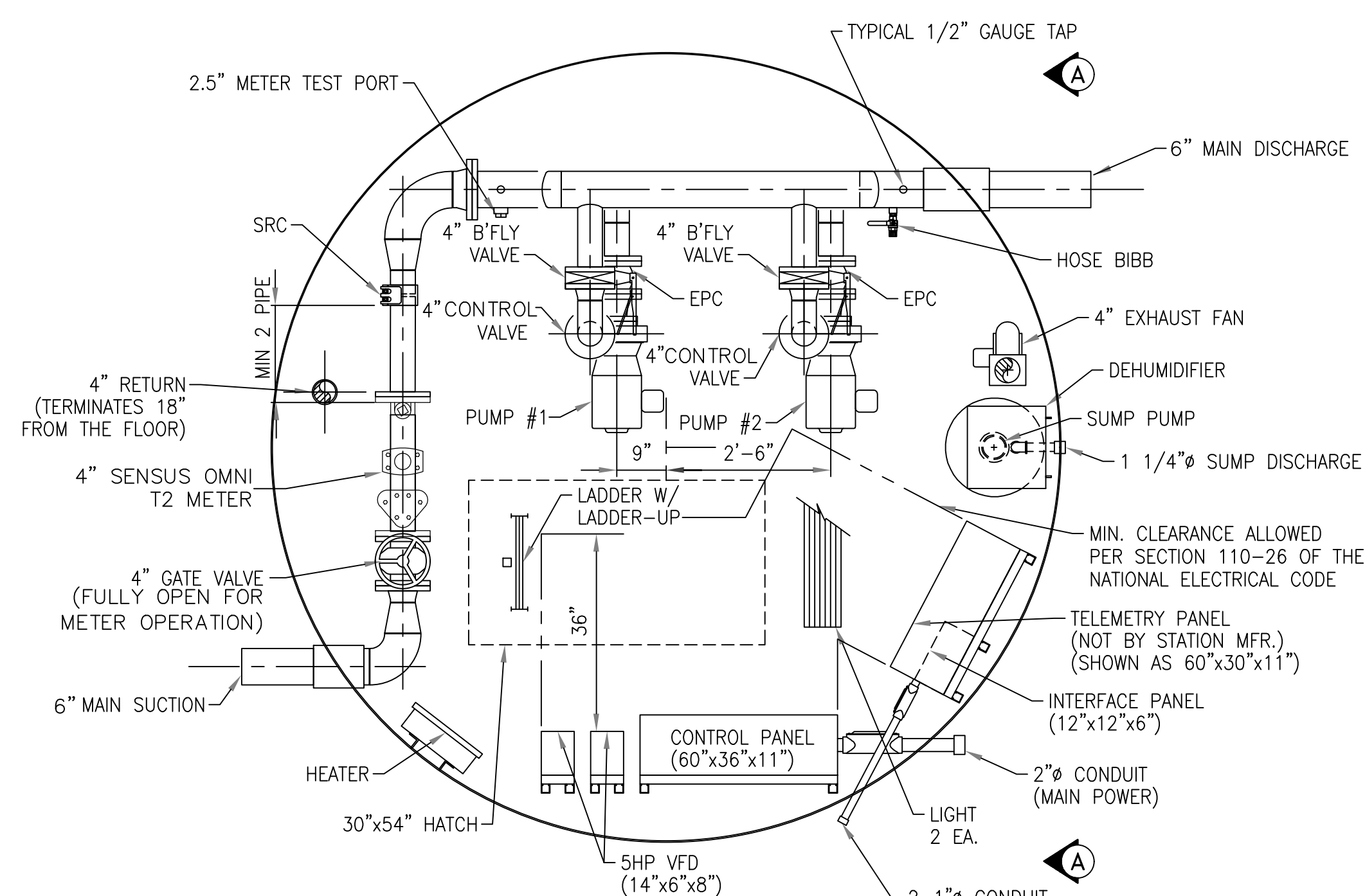
PUMP DATA

Type: HORIZ., CLOSED CPLD., END SUCTION
Pump: 1 & 2
Capacity: 200 GPM AT 60 FEET T.D.H.
Size: 2-1/2" X 3" (DISCH. X SUCT.)
Motor: 5 H.P., 3530 R.P.M.

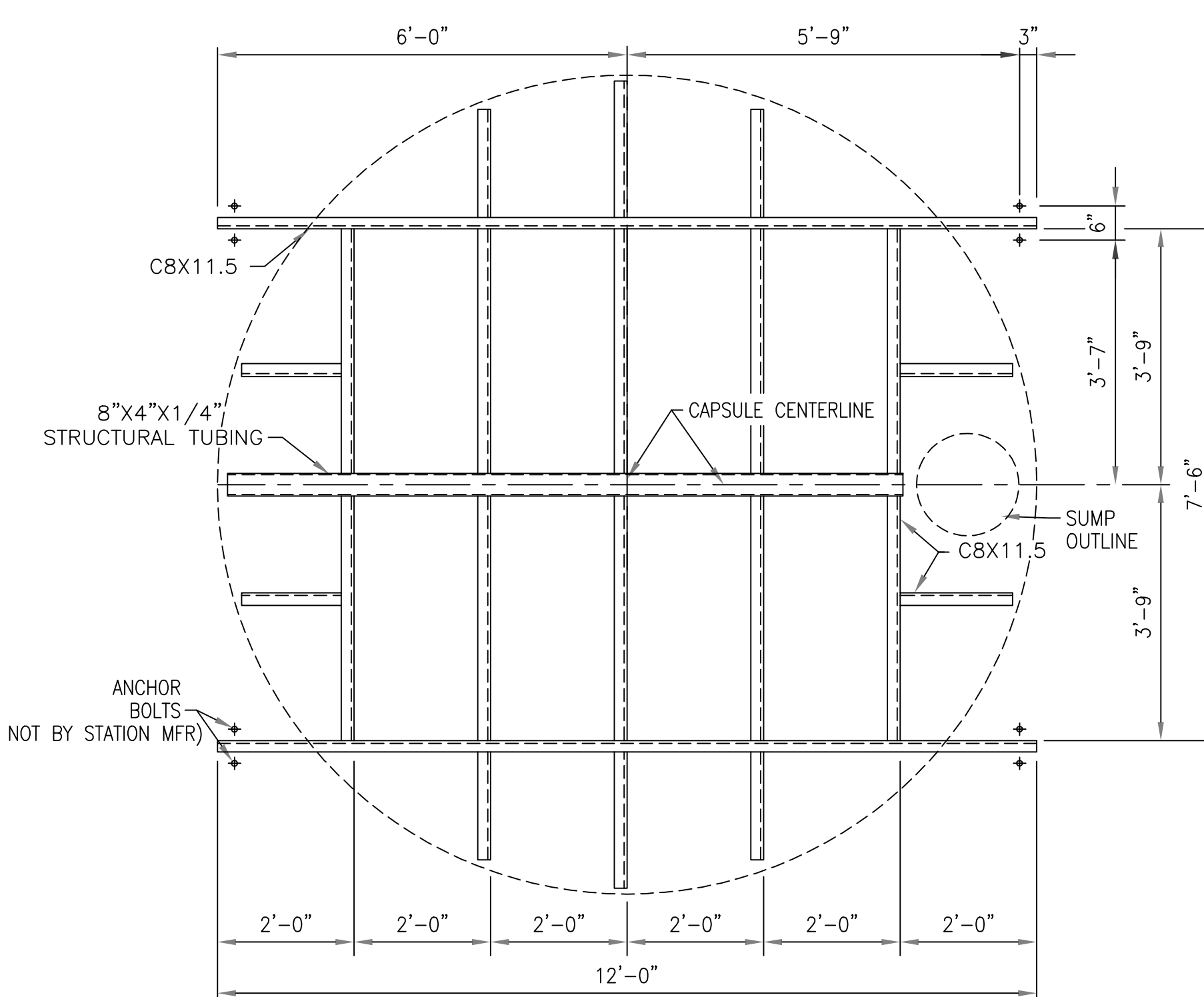
NOTE: SRC - SELF RESTRAINED COUPLING
EPC - ELASTOMER PIPE CONNECTION



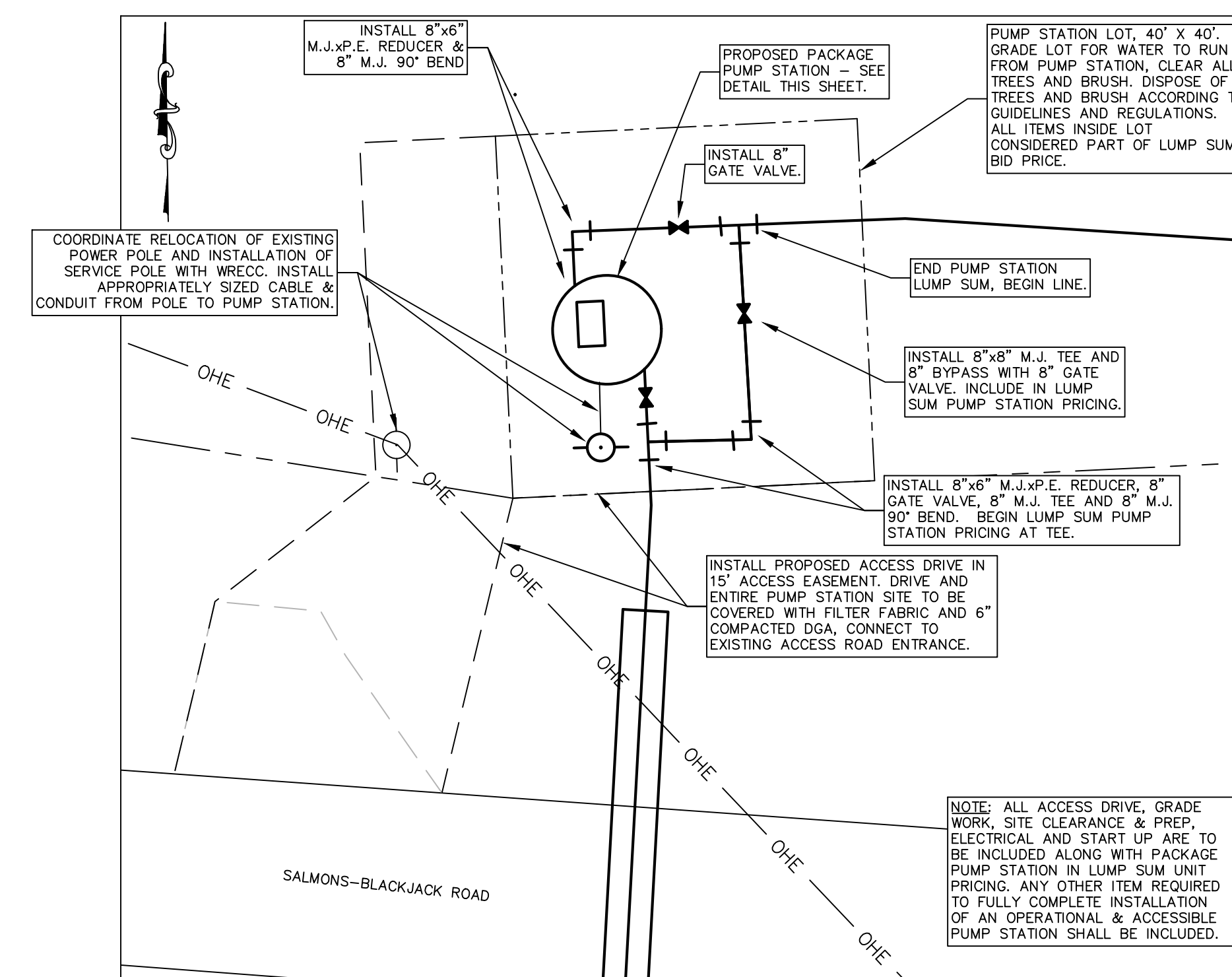
SECTION A-A



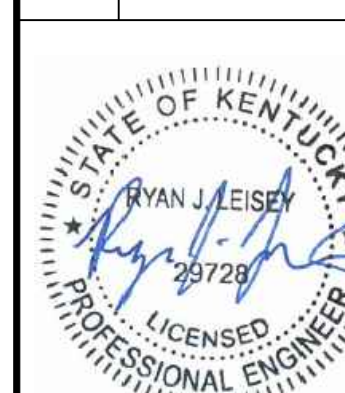
INTERIOR PLAN



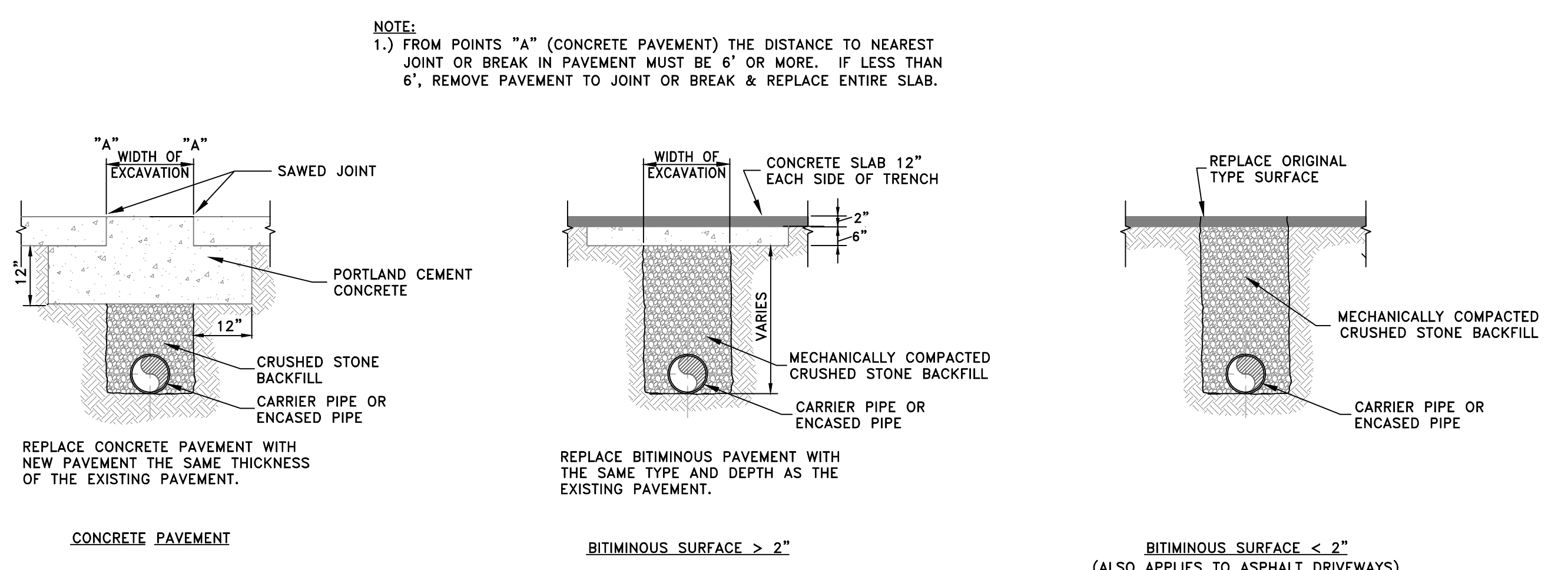
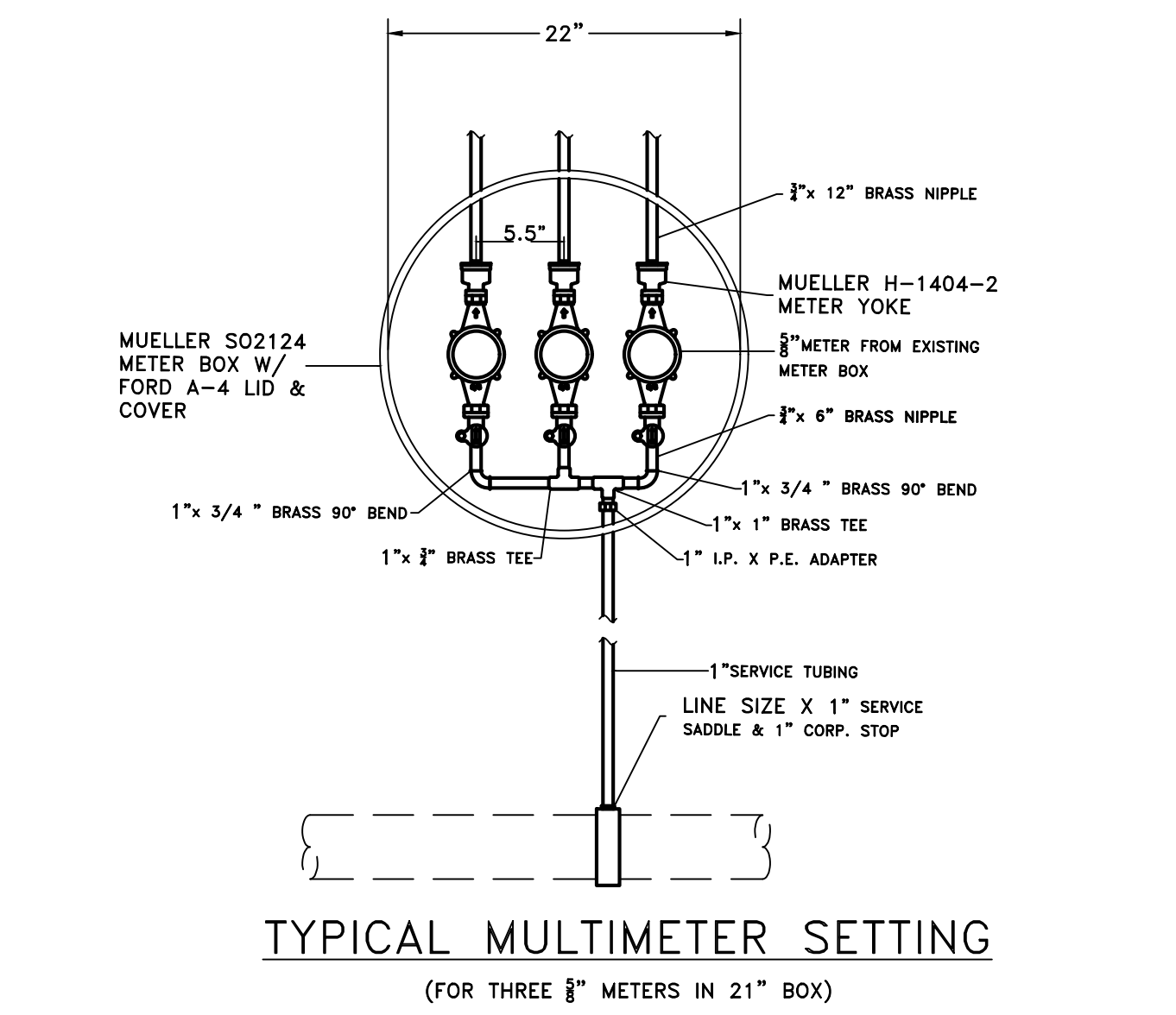
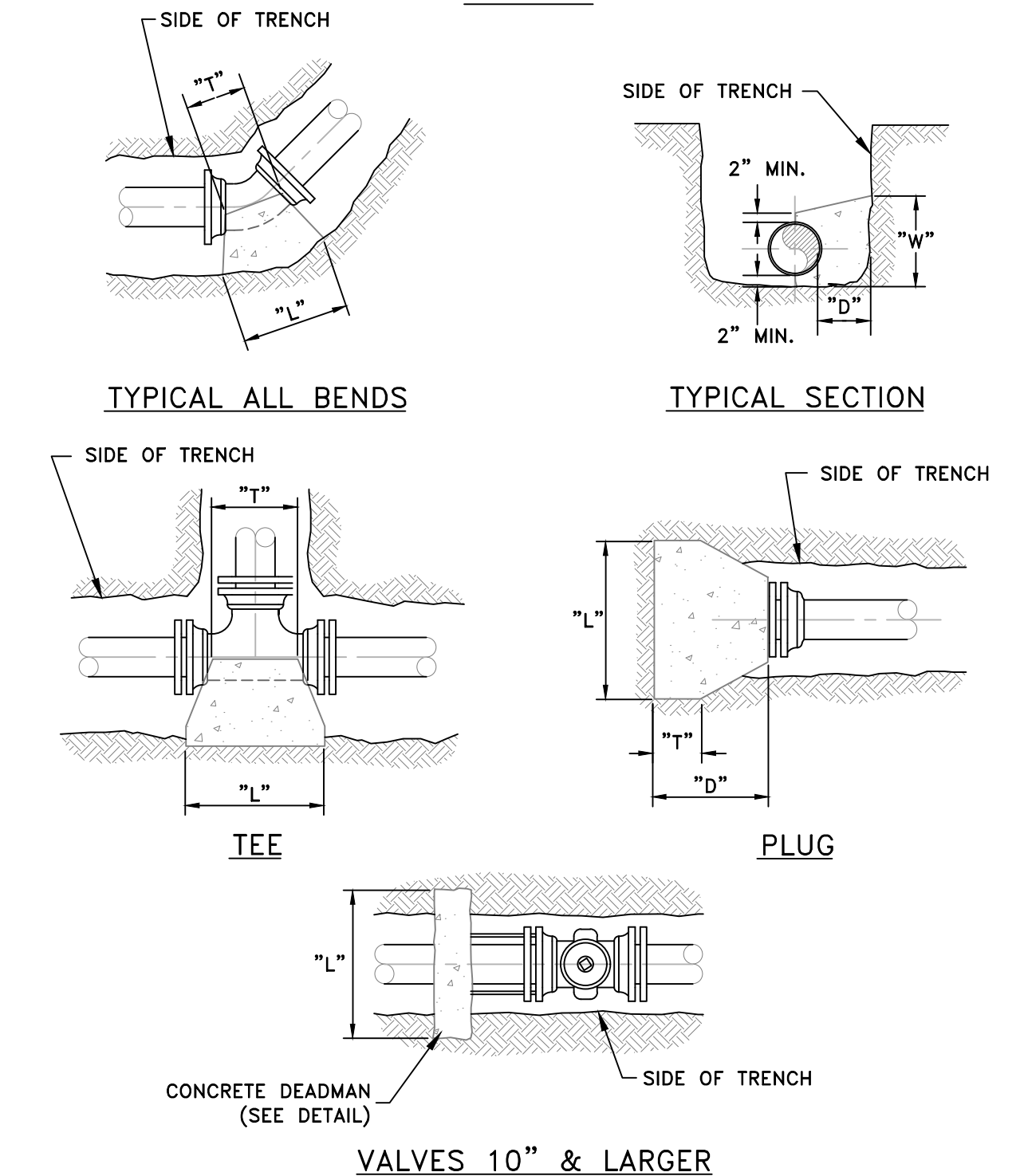
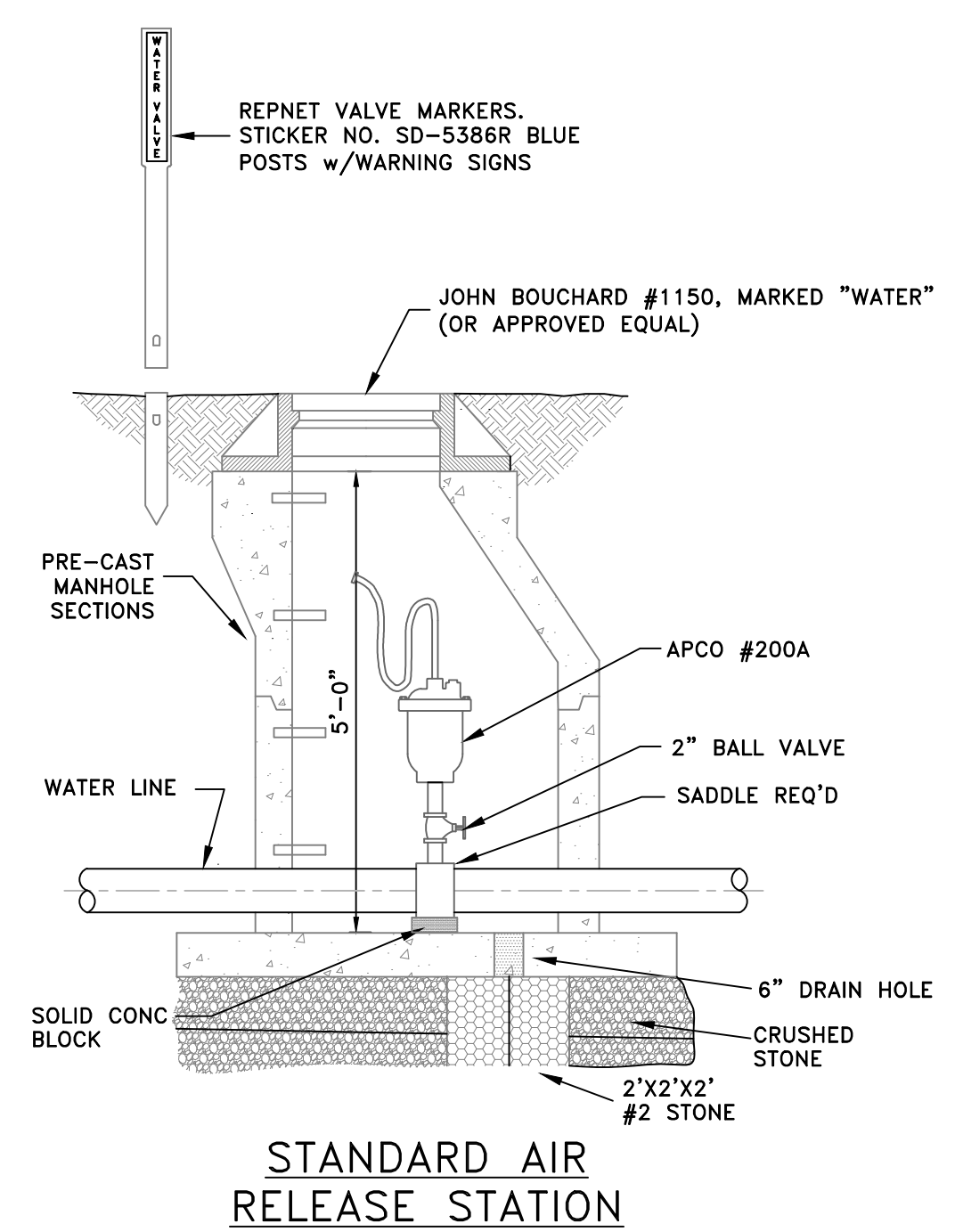
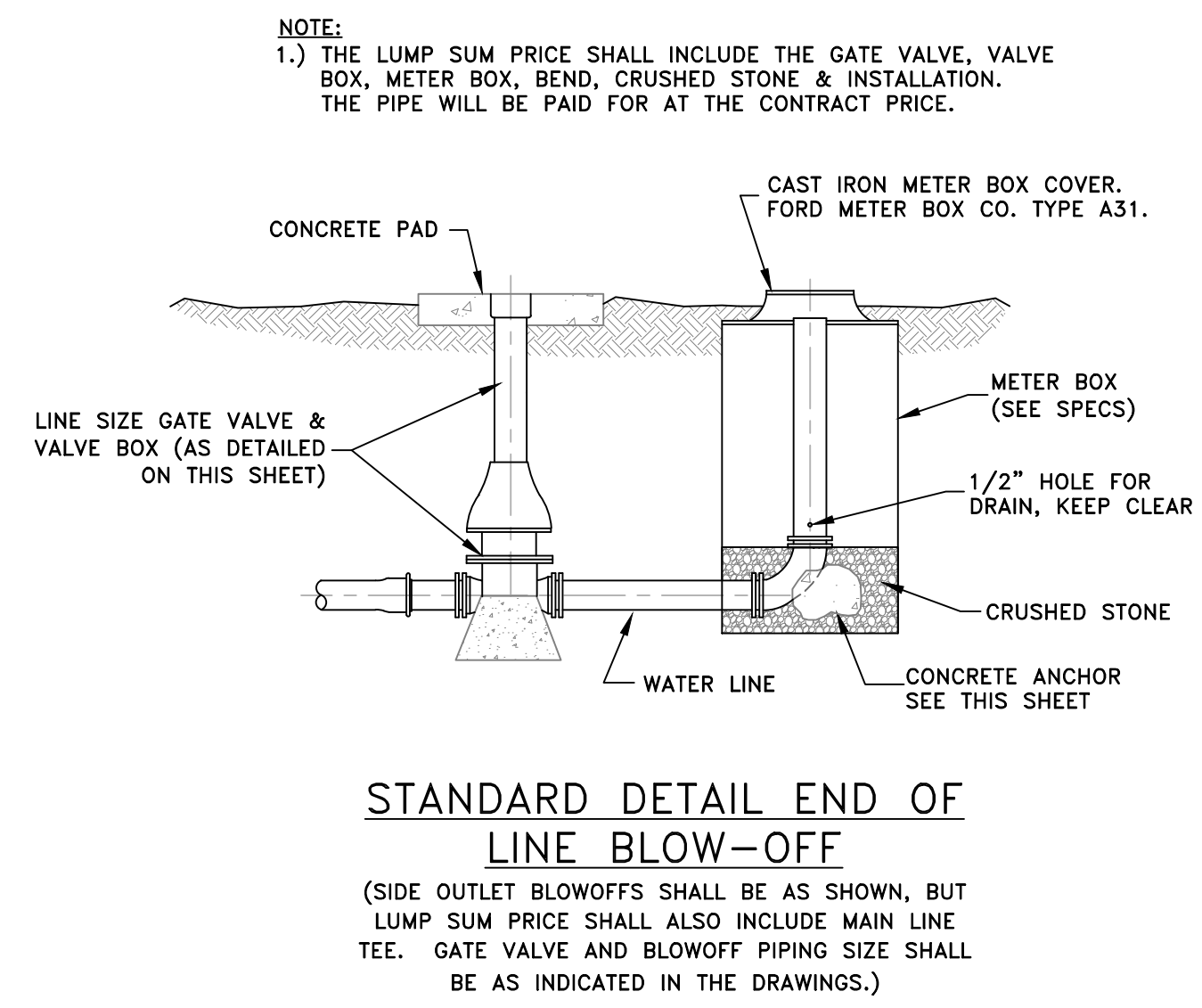
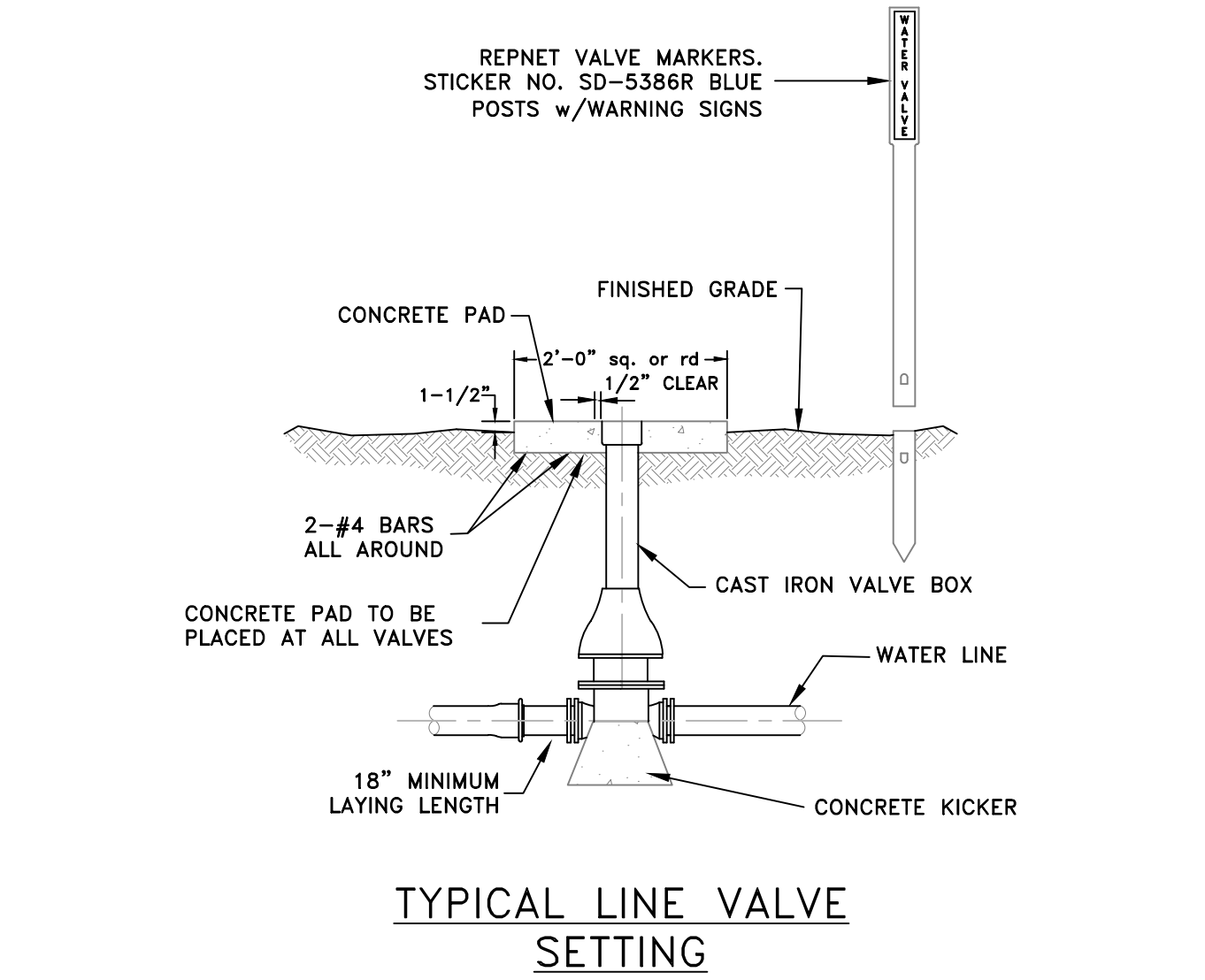
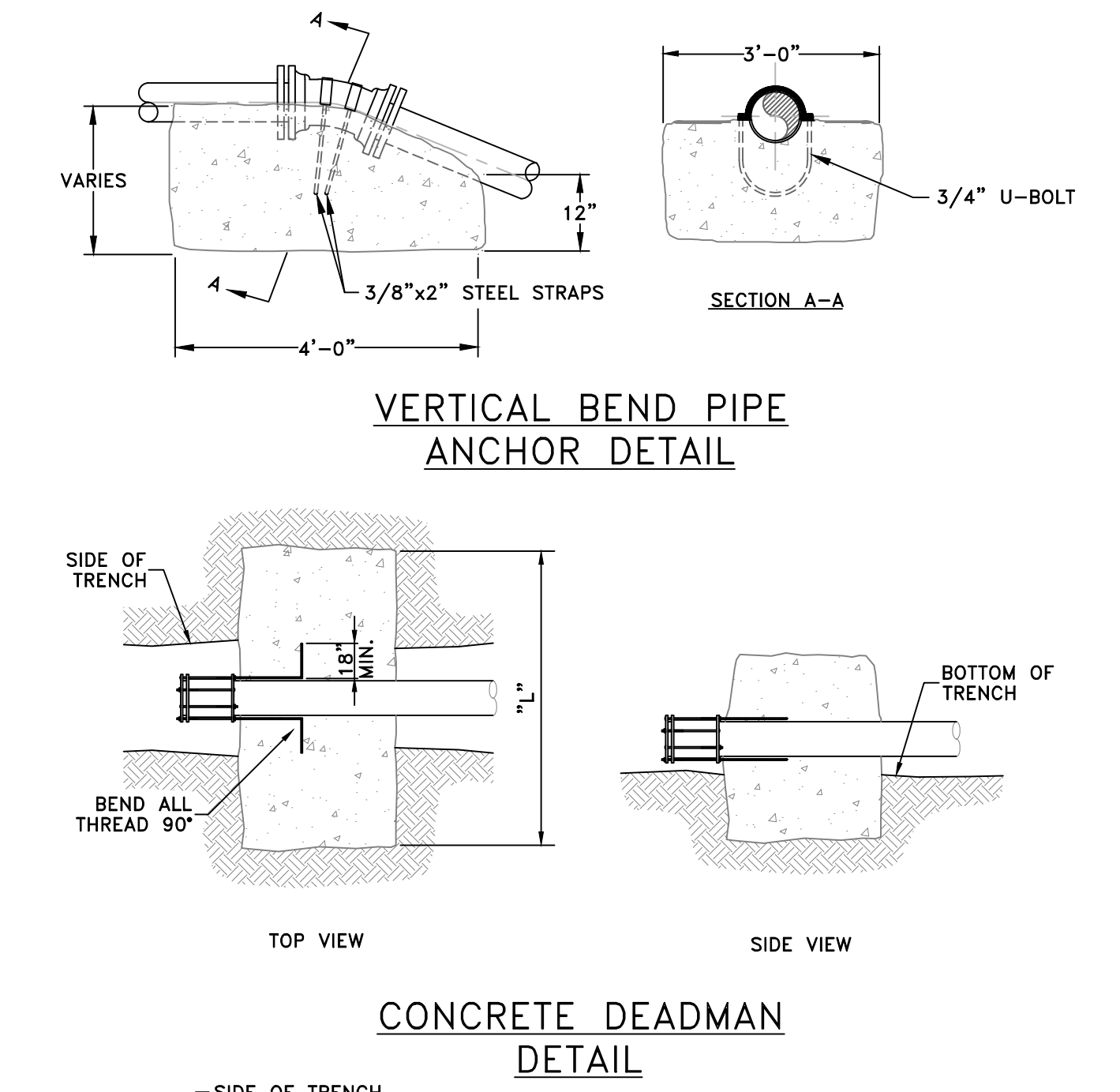
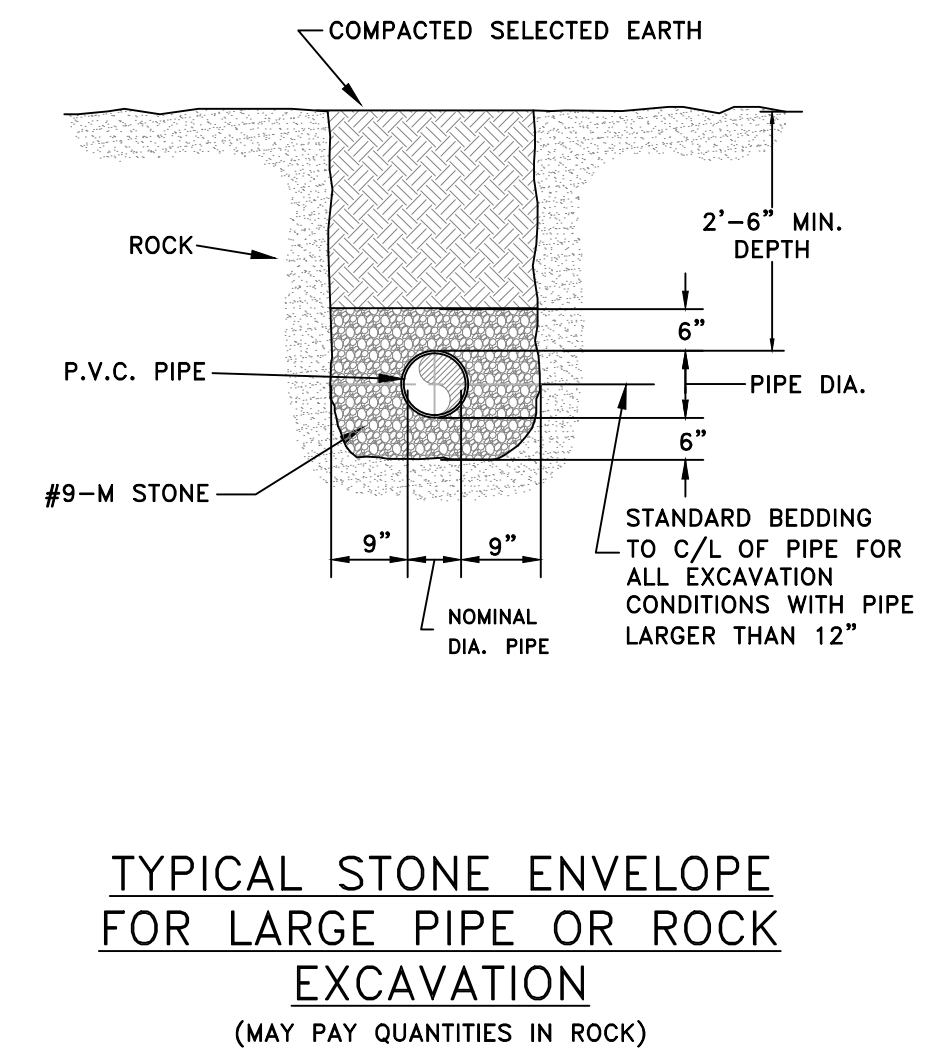
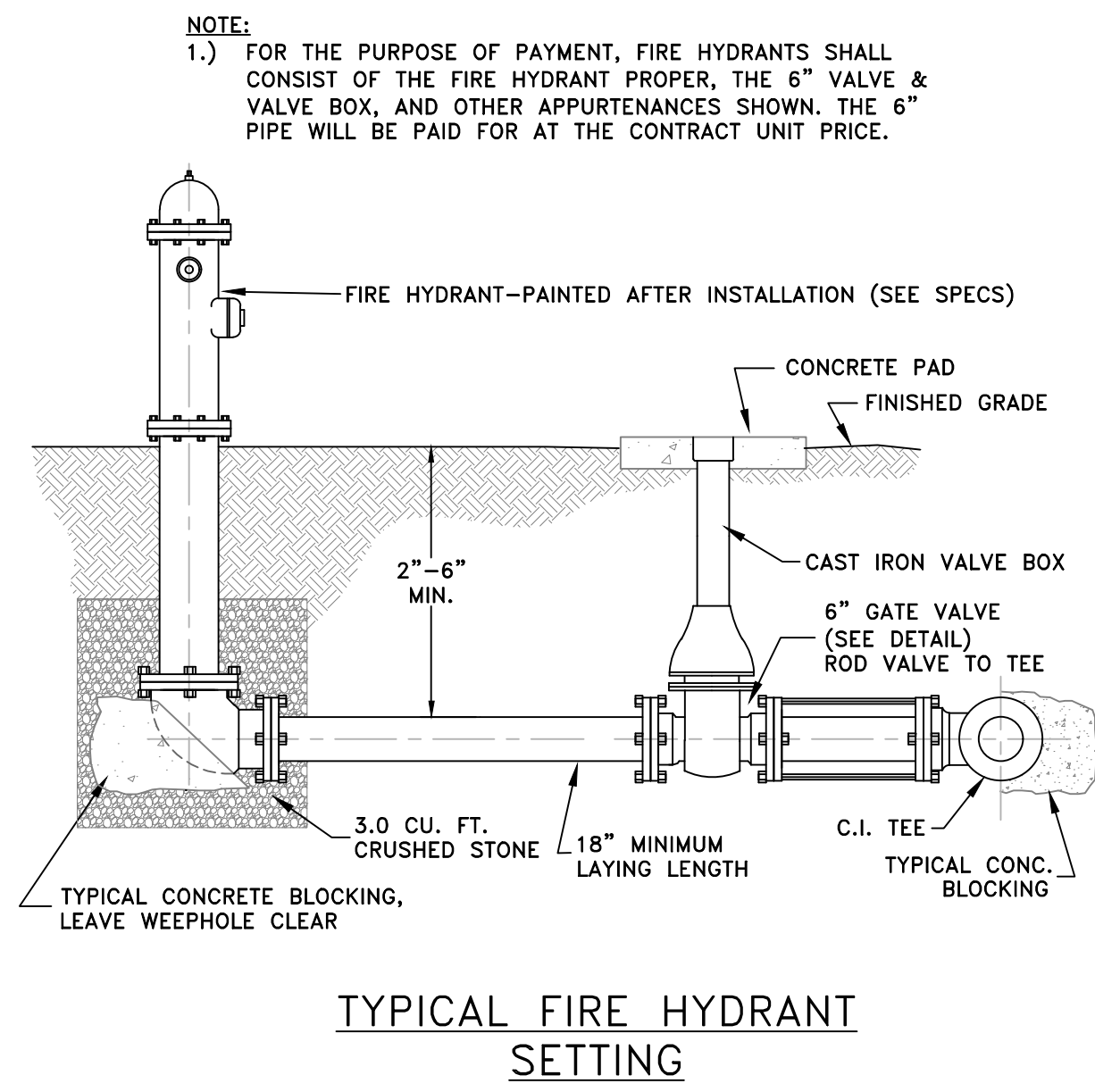
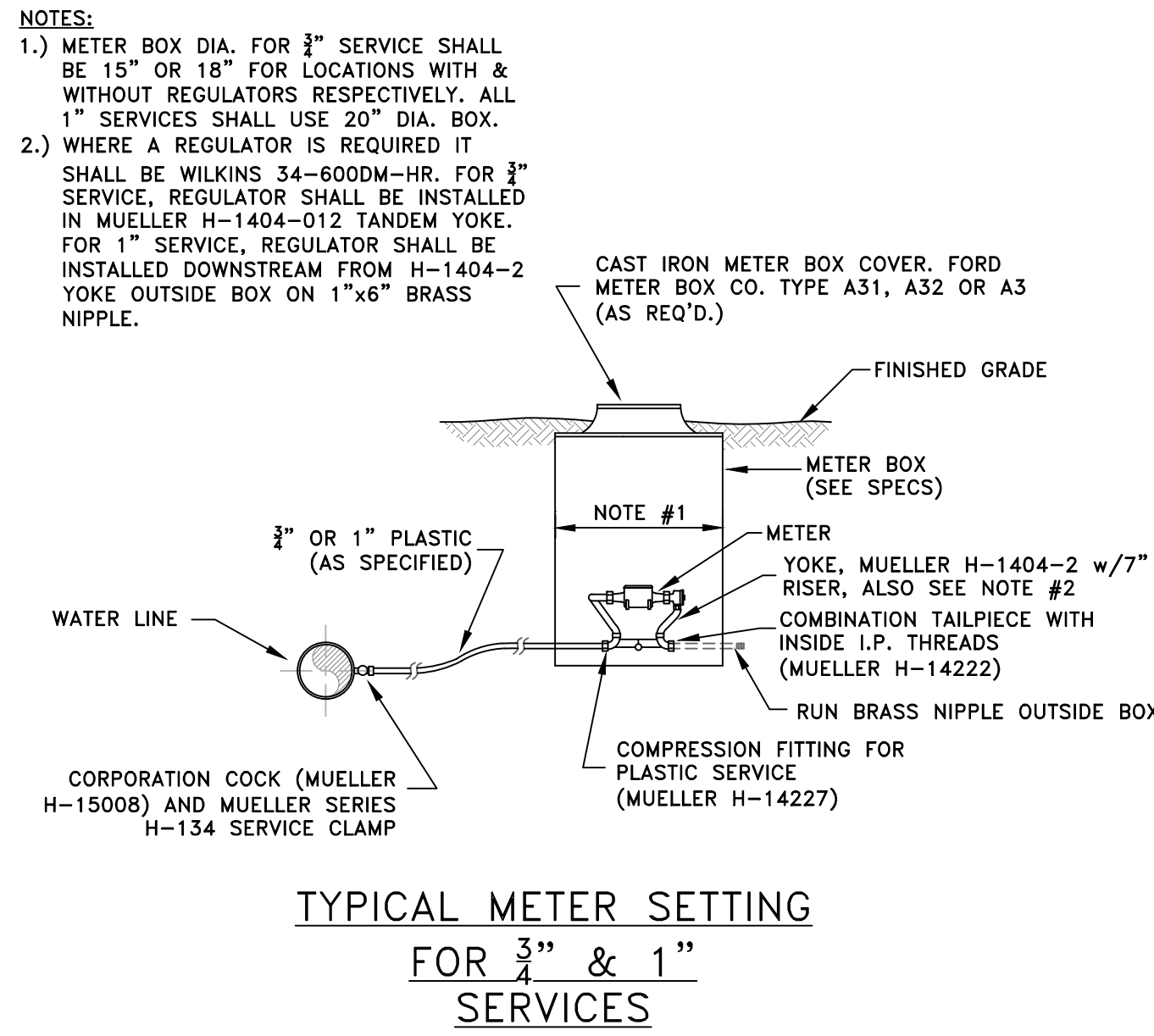
SKID PLAN



SCALE:	NTS
DATE:	8/23/19
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DESIGNED:	JNL
DRAWN:	JNL & KH
CHECKED:	RJL
REVISIONS:	
NO.:	DATE:



8/23/19



- NOTES:**
 1.) THE COST OF THE U-BOLTS, STRAPS & ANCHOR BAR WILL BE ABSORBED INTO THE COST OF THE CONCRETE. NO SEPARATE PAYMENT WILL BE MADE.
 2.) ALL VERTICAL BENDS SHALL INCLUDE ROMAC GRIP RINGS.
 3.) CONCRETE TO BE POURED AGAINST UNDISTURBED EARTH.
 4.) PLASTIC BARRIER SHALL BE PLACED BETWEEN ALL CONCRETE AND PIPE AND/OR FITTINGS.
 5.) ANCHOR BAR SHALL BE 5/8" MINIMUM DIAMETER.
 6.) 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.
 7.) RODDING FOR A CONCRETE DEADMAN SHALL BE AS FOLLOWS: 4" USE 2 RODS, 6"-10" USE 4 RODS & 12" PER ENGINEER.

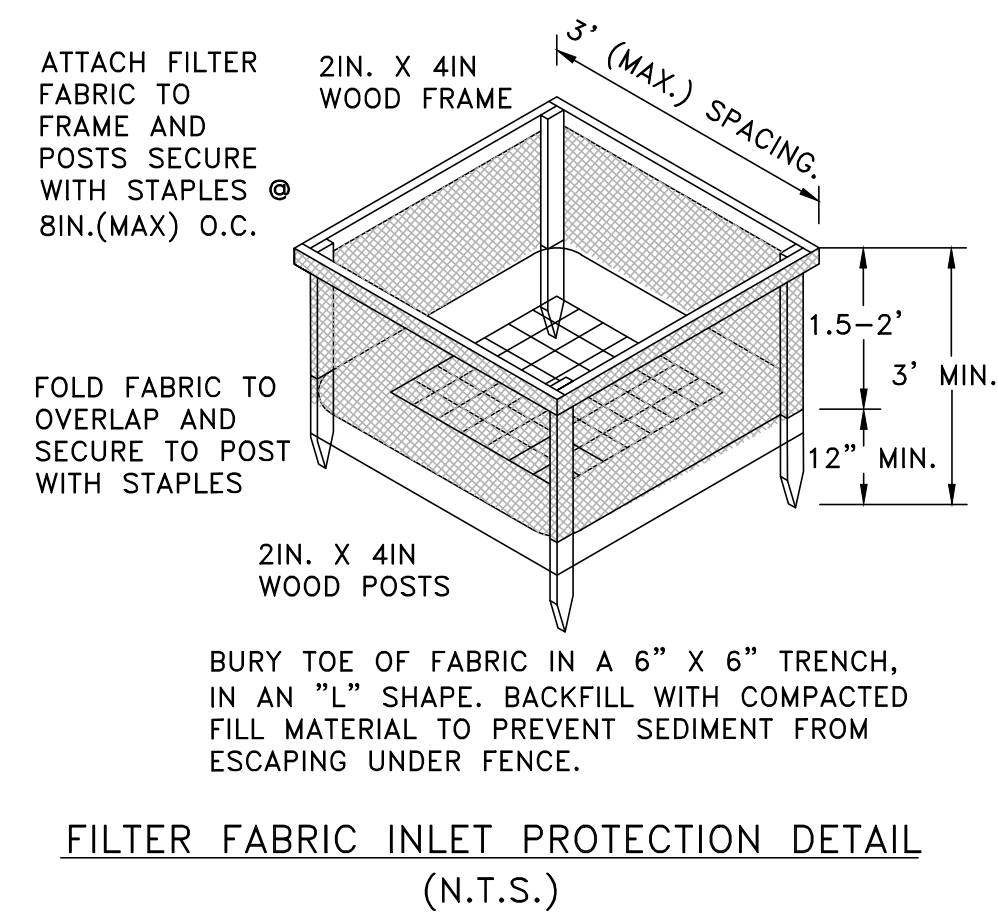
SIZE	90° BENDS												
	2	4	6	8	10	12	14	16	18	20	24	30	
"D"	6	8	8	10	12	14	22	22	24	24	30	30	
"L"	16	20	24	30	32	34	68	68	80	80	96	120	
"W"	8	10	12	16	18	22	24	34	34	40	40	48	60
"T"	10	12	16	20	22	22	38	38	40	40	44	52	

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

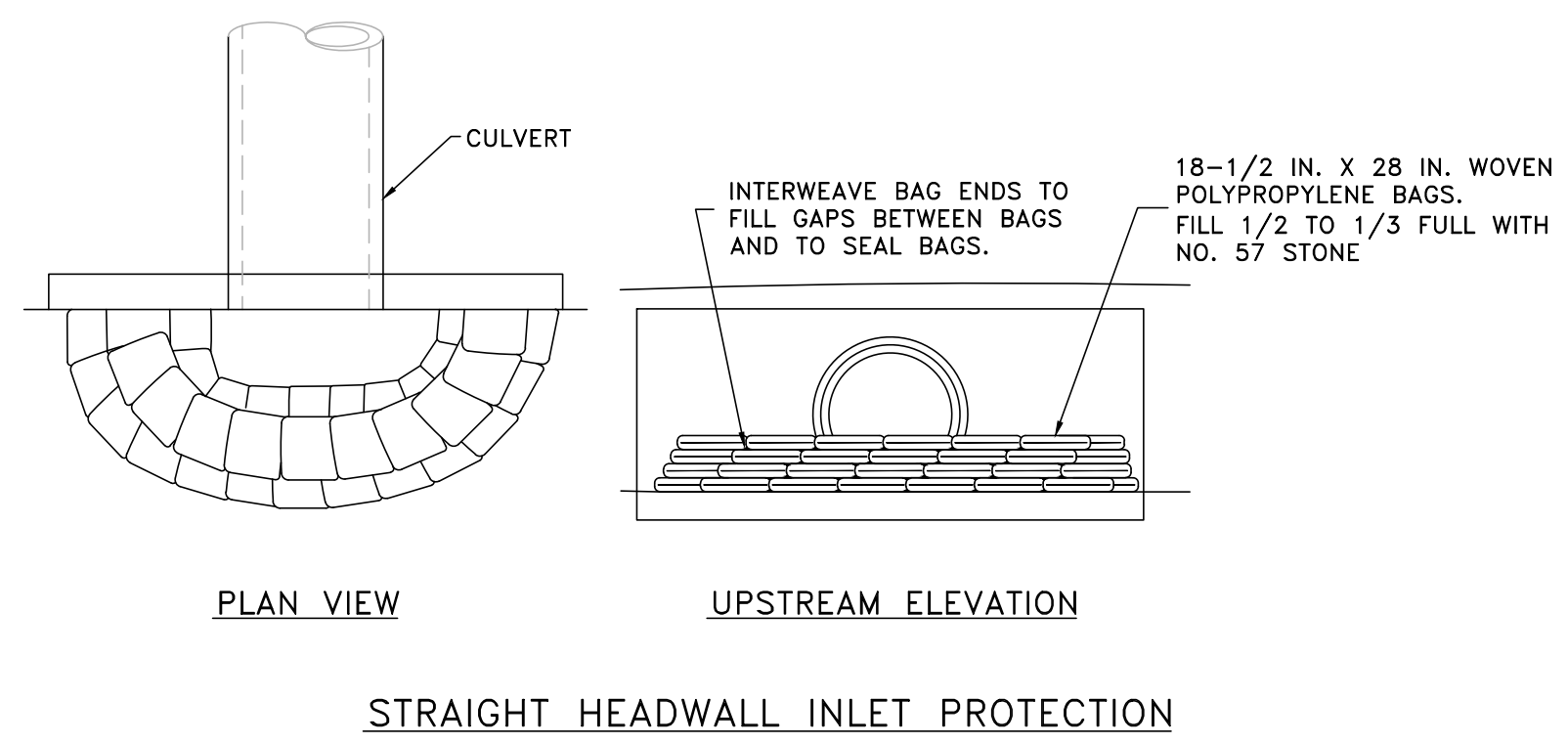
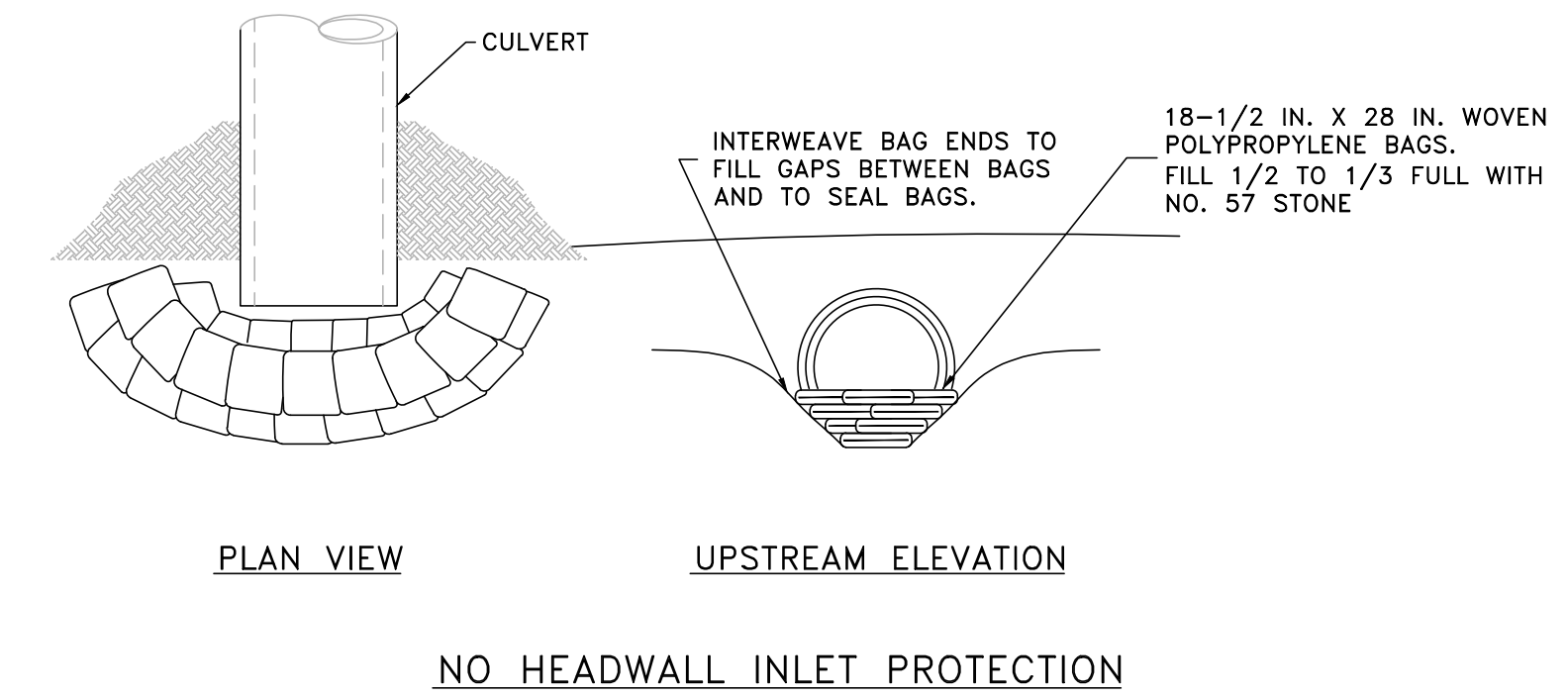
SIZE	22 1/2" & 11 1/4" BENDS											
	2	4	6	8	10	12	14	16	18	20	24	30
"D"	6	10	14	18	20	20	22	22	24	24	30	30
"L"	20	24	28	28	28	28	36	36	42	42	54	66
"W"	18	20	22	24	24	24	18	18	21	21	24	31
"T"	12	14	16	18	18	18	38	38	40	40	44	52

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	36	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

MINIMUM CONCRETE BLOCKING FOR PIPE & FITTINGS

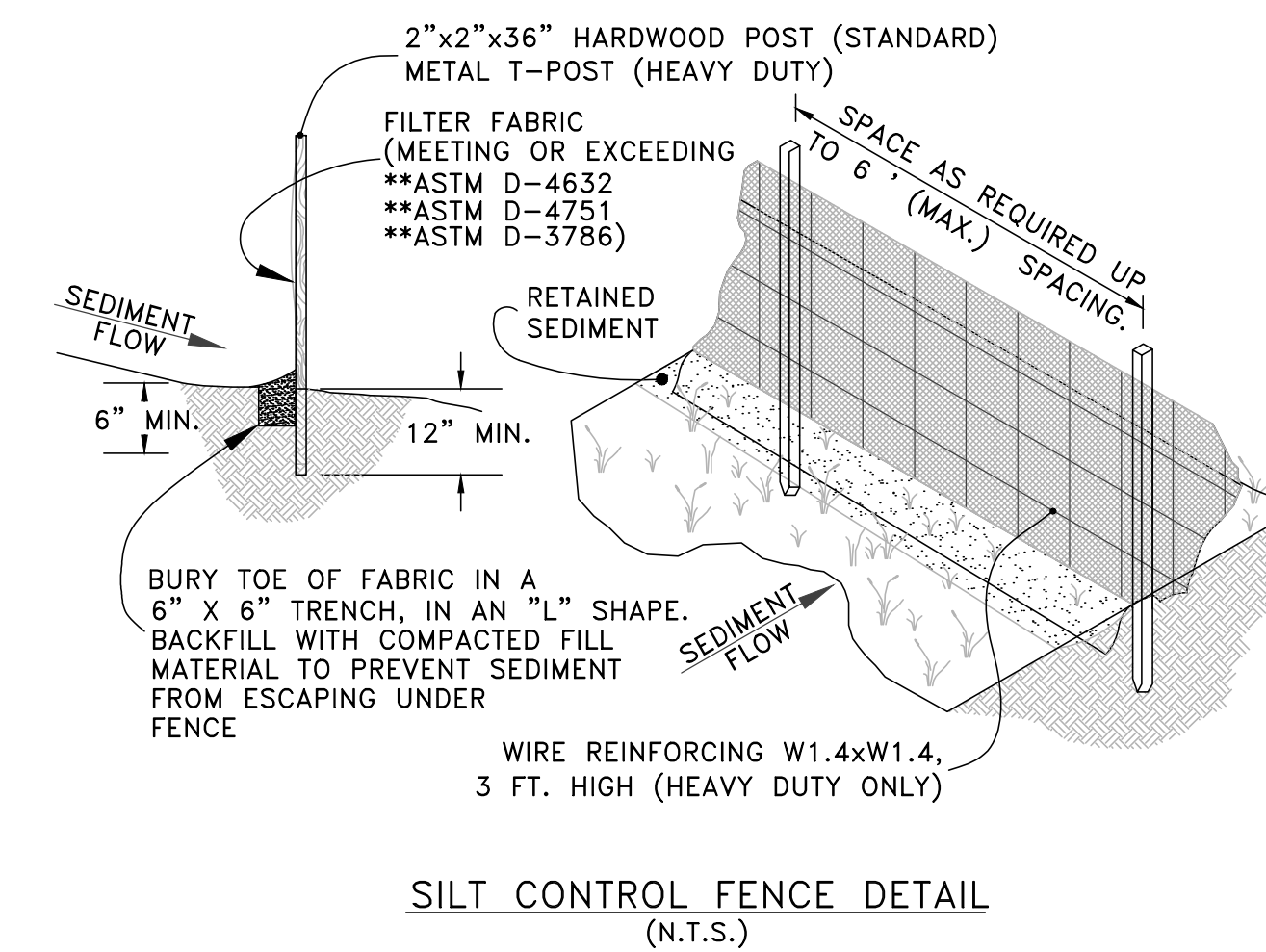
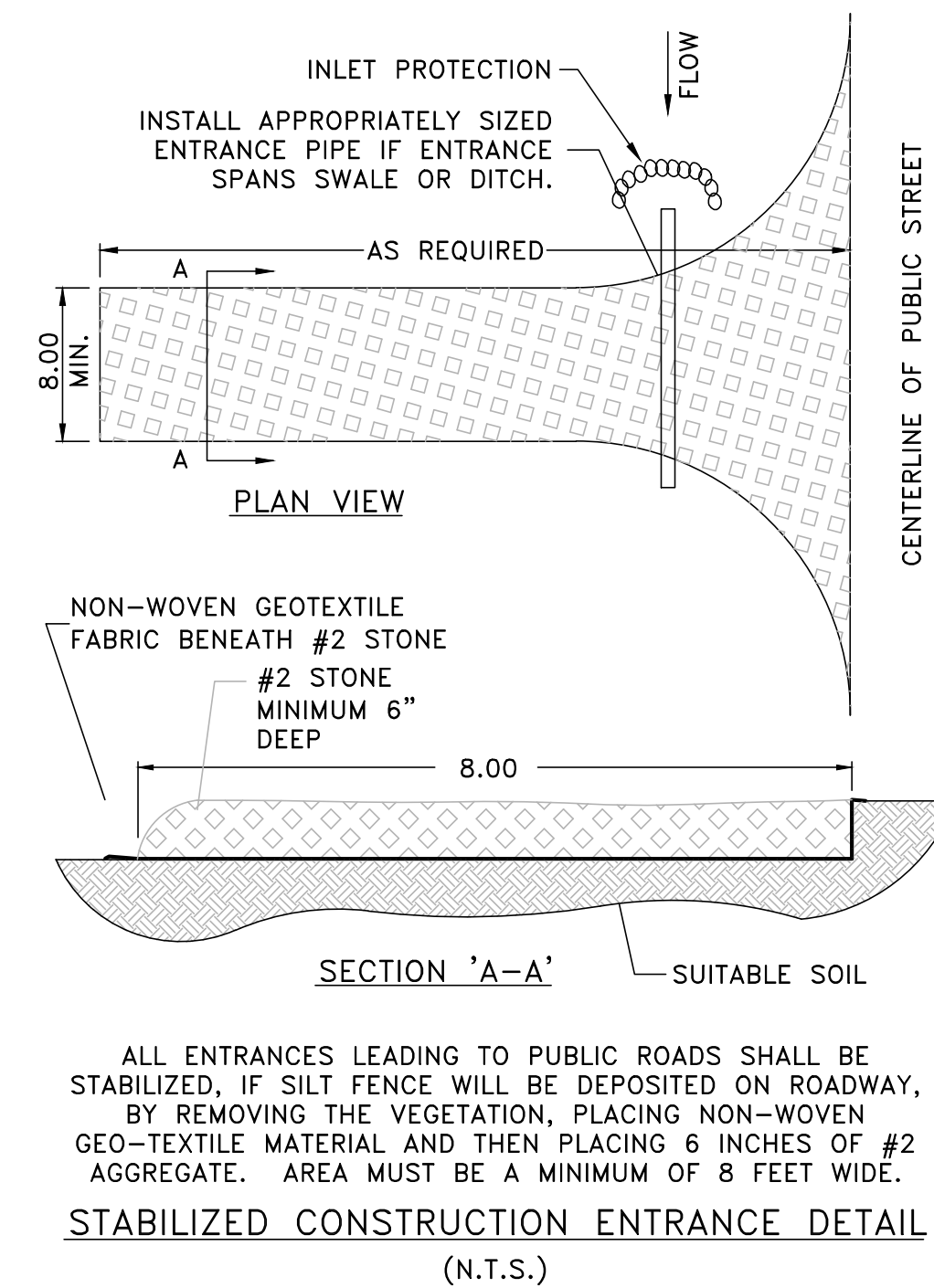
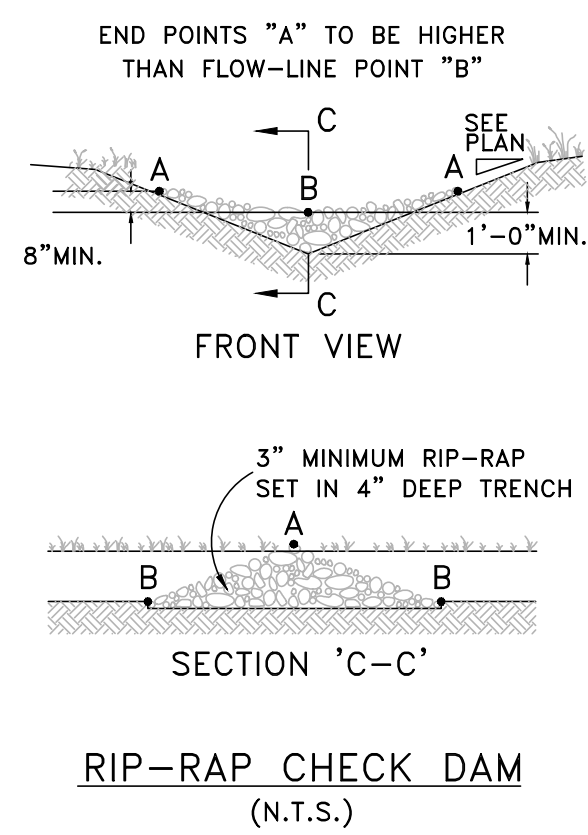


- GENERAL EPSC NOTES:
1. ALL PRACTICAL MEASURES SHALL BE TAKEN TO PRESERVE EXISTING VEGETATION ON AND ADJACENT TO THE CONSTRUCTION SITE(S).
 2. EPSC MEASURES SHALL BE INSTALLED IN ADVANCE OF ALL OTHER CONSTRUCTION IN EACH AREA OF CONSTRUCTION.
 3. SILT FENCING OR OTHER APPROVED EPSC DEVICE(S) SHALL BE 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.



SCALE:	NOT TO SCALE
DATE:	1-30-08
DWG NO.:	WD
DESIGNED:	WCWD
DRAWN:	JT
CHECKED:	JES
REVISIONS:	
NO.:	DATE:



8/23/19