

WASHINGTON STATE PARKS & RECREATION COMMISSION

KEN BOUNDS, CHAIR

SOPHIA DANENBERG

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LAURIE CONNELLY

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ALI RAAD

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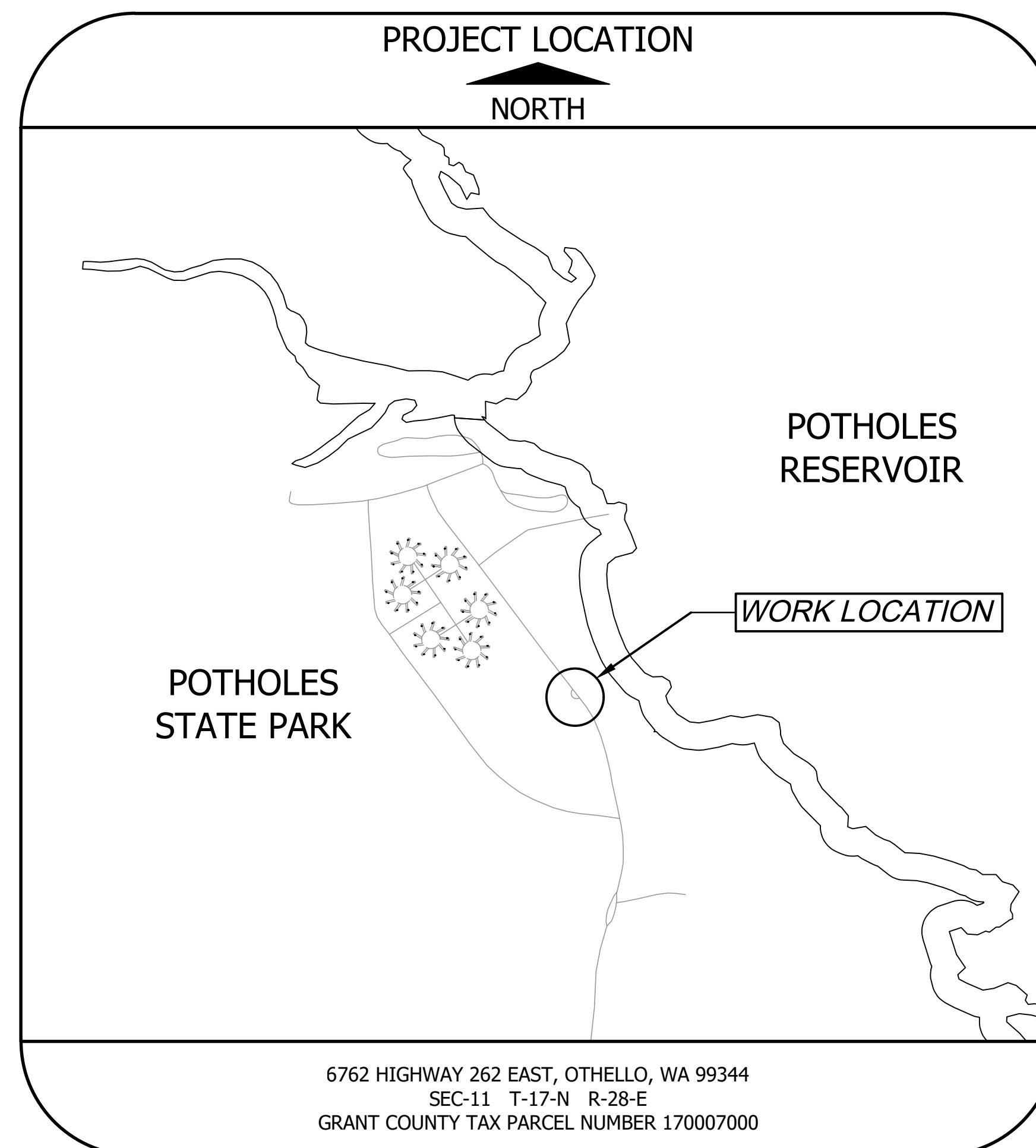
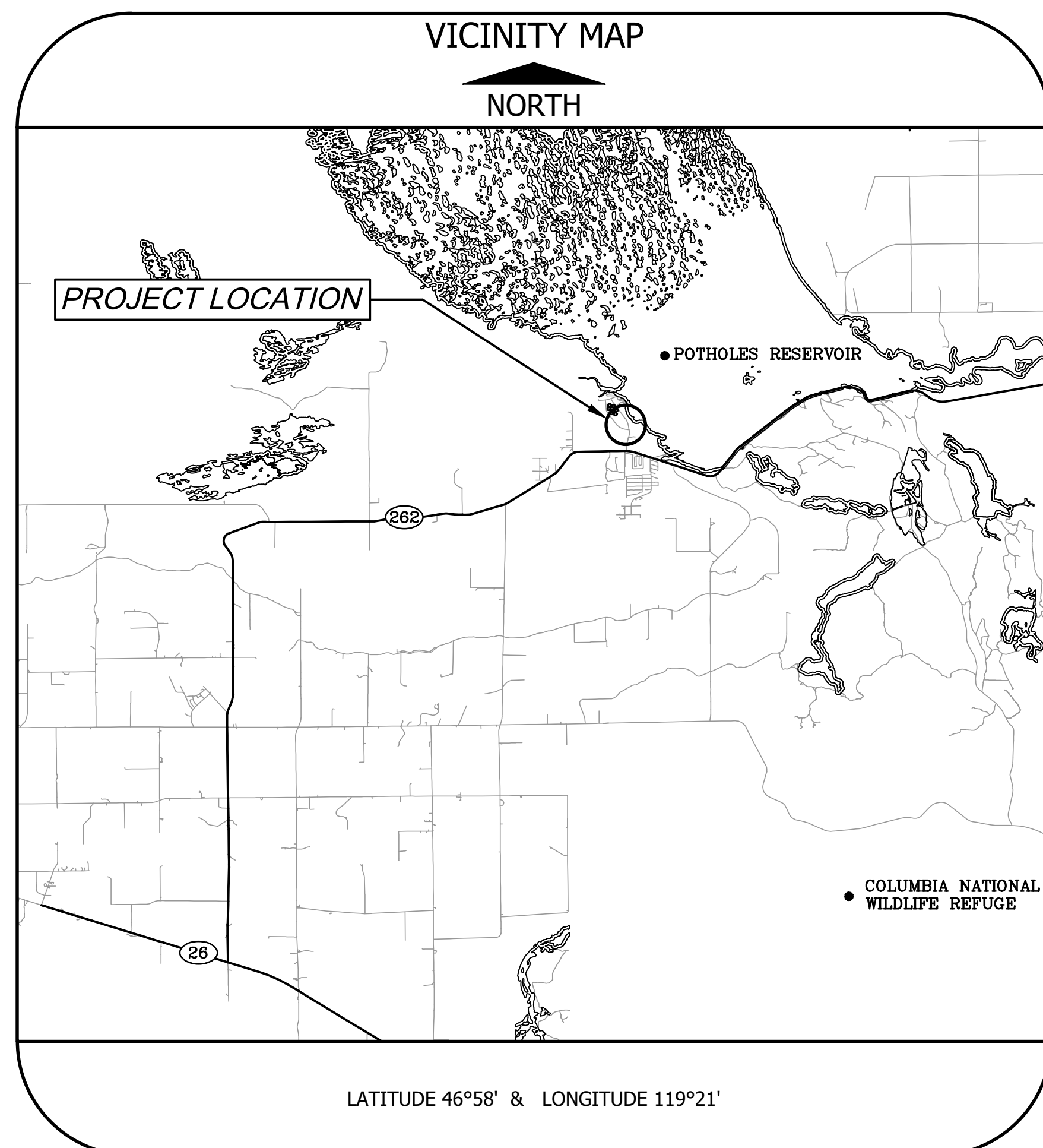


Jason Both 2/20/2025
REGION MANAGER date

Kyle Murphy 2/20/2025
CAPITAL PROGRAM MANAGER date

Area Manager: Denis Felton

POTHOLES STATE PARK SEWER LIFT STATION REPLACEMENT

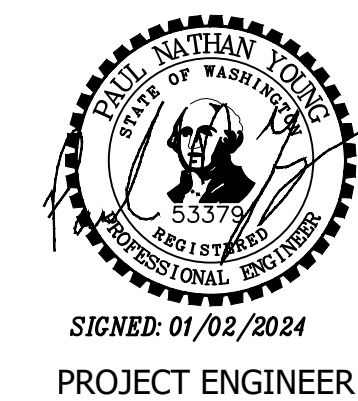


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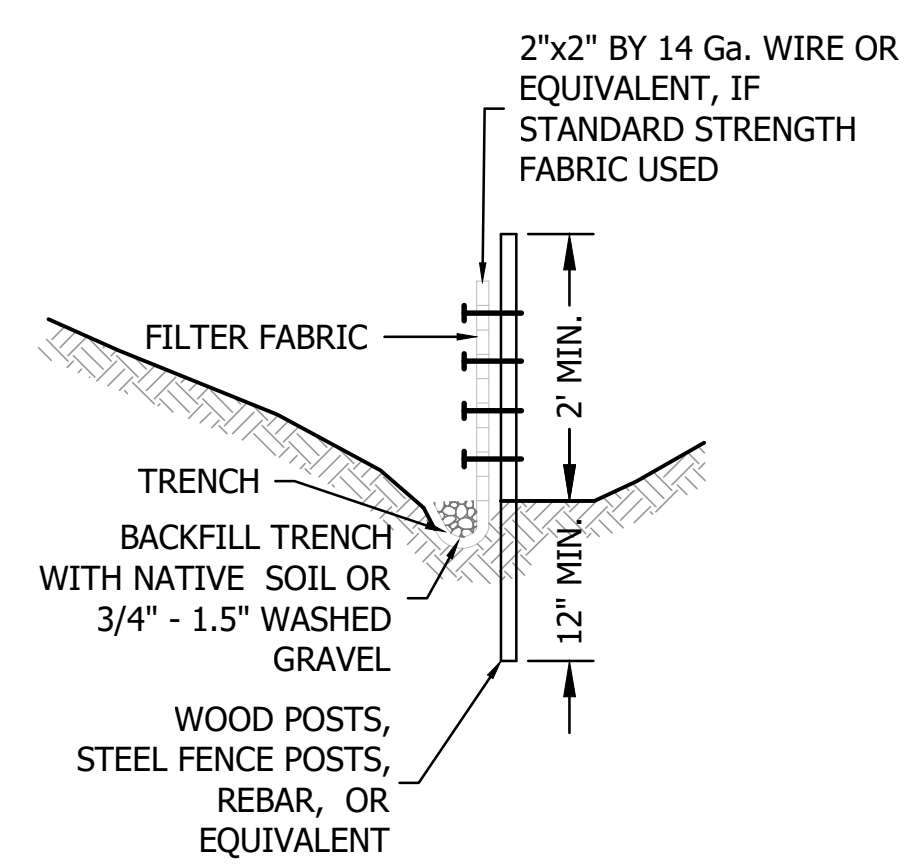
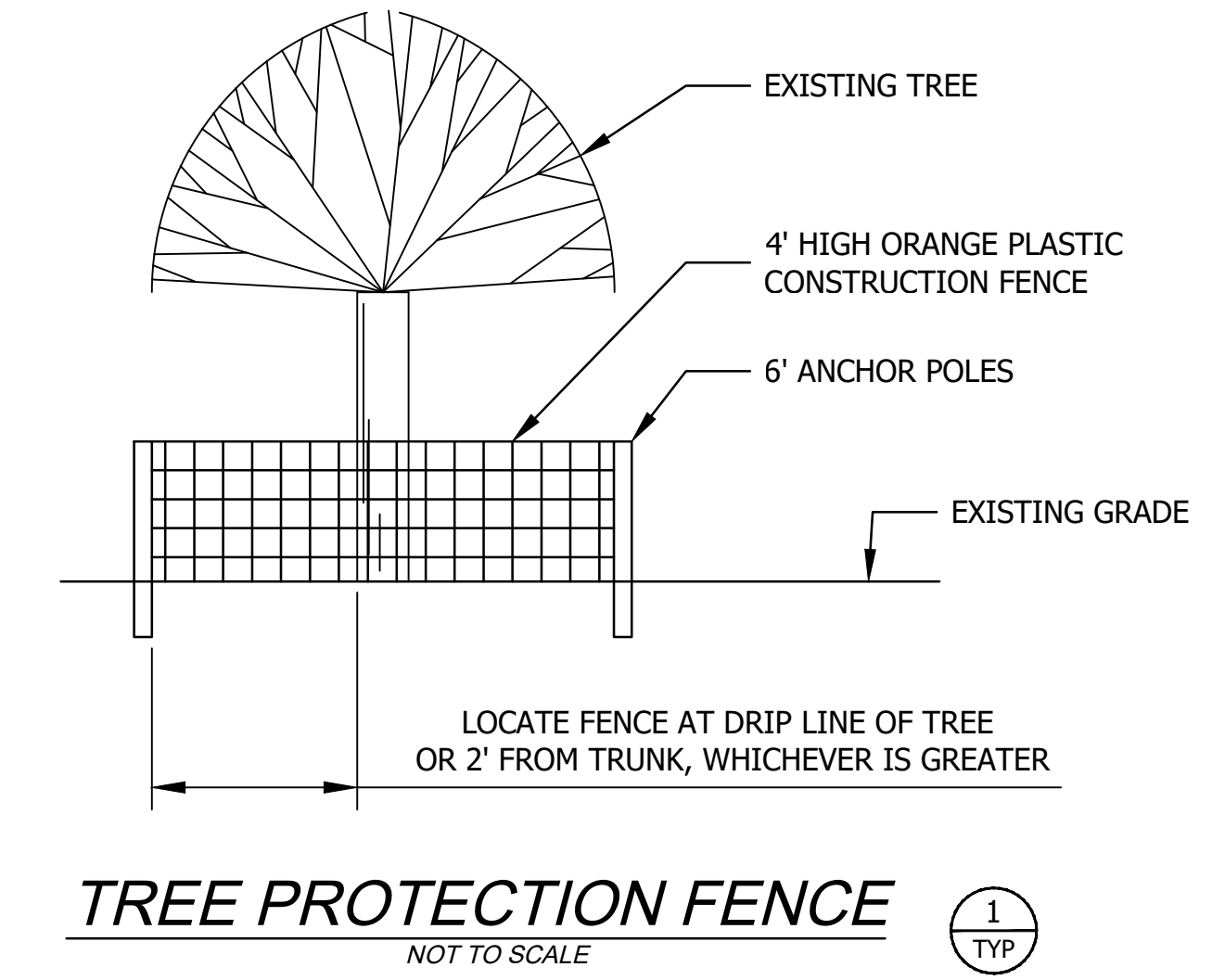
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WASHINGTON STATE PARKS AND RECREATION COMMISSION

POTHoles STATE PARK
SEWER LIFT STATION REPLACEMENT

GENERAL INFORMATION



NOTES:

- FILTER FABRIC FENCES SHALL BE INSTALLED ALONG CONTOUR WHENEVER POSSIBLE
- SILT FENCE SHALL BE INSTALLED WHENEVER WORK IS BEING COMPLETED ADJACENT TO OR PERPENDICULAR TO A DRAINAGE OR WATERWAY, OR ELSEWHERE AS DIRECTED BY THE OWNER'S FIELD REPRESENTATIVE.

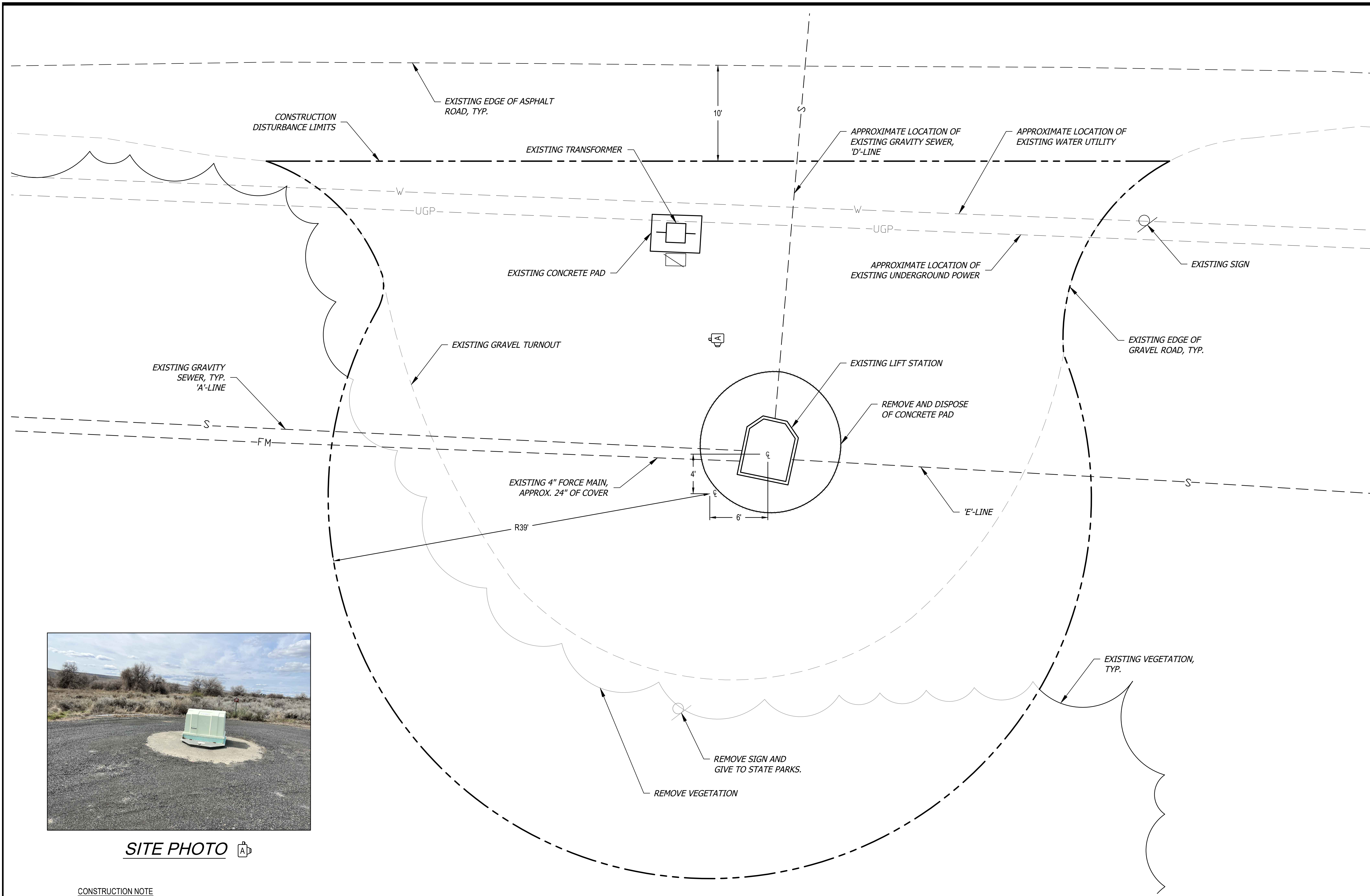
- LEGEND**
- S--- EXISTING GRAVITY SEWER
 - G--- ABANDONED GRAVITY SEWER
 - F--- EXISTING SEWER FORCE MAIN
 - G--- ABANDONED SEWER FORCE MAIN
 - UGP--- ABANDONED UGP
 - W--- EXISTING DOMESTIC WATER
 - /W--- EXISTING IRRIGATION
 - UGP--- EXISTING UNDERGROUND ELECTRICAL (SECONDARY)
 - UGP--- EXISTING UNDERGROUND ELECTRICAL (PRIMARY)
 - EXISTING ELECTRICAL TRANSFORMER
 - ◆ EXISTING IRRIGATION BOX
 - ⊗ EXISTING IRRIGATION VALVE
 - ⊠ EXISTING DRAIN VALVE
 - EXISTING SPRINKLER
 - EXISTING TREE
 - EXISTING VEGETATION
 - ▨ MATERIAL AND EQUIPMENT STORAGE AREA
 - EXISTING PAVEMENT AND CONCRETE
 - CONSTRUCTION DISTURBANCE LIMITS
 - EXCAVATION LIMITS
 - UGP--- UNDERGROUND POWER
 - TREE PROTECTION FENCE
 - △ YARD HYDRANT DRAIN VALVE
 - ✕ SILT FENCE
 - X--- CHAINLINK FENCE

CONSTRUCTION NOTES

- EXISTING SITE PLANS WERE DEVELOPED FROM MULTIPLE PRIOR PROJECT RECORDS. NO SURVEY WAS PERFORMED FOR THIS PROJECT. TOPOLOGICAL AND UTILITY INFORMATION SHOWN MAY NOT ACCURATELY REFLECT EXISTING CONDITIONS. CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY IF FIELD CONDITIONS VARY FROM THOSE SHOWN.
- SLOPED-SIDE EXCAVATION IN LIEU OF SHORING FOR WETWELLS WILL NOT BE ALLOWED. SHORING MANHOLE BOXES, MANHOLE SHIELDS OR FUNCTIONAL EQUIVALENT MUST BE USED FOR CONSTRUCTION OF THE WET WELLS.

- ABBREVIATIONS**
- FL: FLANGED
 - PE: PLANE END
 - MJ: MECHANICAL JOINT
 - RJ: RESTRAINED JOINT
 - LF: LINEAL FEET
 - DI: DUCTILE IRON
 - SS: STAINLESS STEEL
 - TYP: TYPICAL
 - GSP: GALVANIZED STEEL PIPE
 - UGP: UNDERGROUND POWER

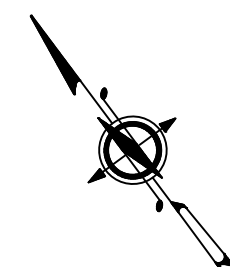




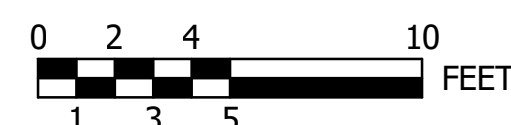
SITE PHOTO

CONSTRUCTION NOTE

CONSTRUCTION DISTURBANCE LIMITS AND MATERIALS AND EQUIPMENT STORAGE AREAS SHOWN ON THIS PLAN ENCOMPASS THE MINIMUM AREA THE CONTRACTOR IS ASSUMED TO NEED. THE CONTRACTOR MAY BE ALLOWED TO USE ADDITIONAL AREA WITH APPROVAL FROM THE ENGINEER. ALL AREAS THAT ARE DISTURBED BY THE CONTRACTOR'S ACTIVITIES WILL BE RESTORED BY THE CONTRACTOR UNDER THE ORIGINAL BID PRICE. NO ADDITIONAL PAYMENT WILL BE MADE FOR RESTORATION OF DAMAGE CAUSED BY THE CONTRACTOR.

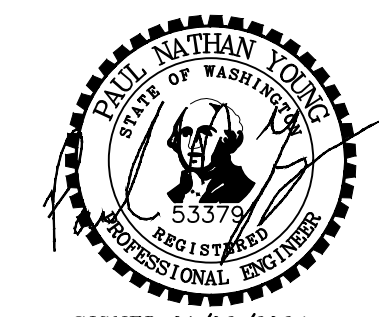


LIFT STATION - EXISTING SITE PLAN



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DESIGNED	PNY	1/2/2024
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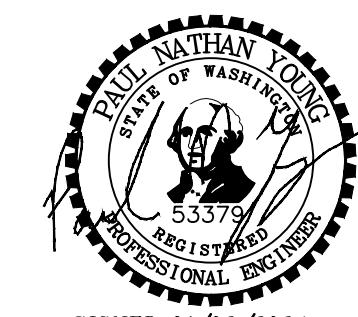


POTHOLES
STATE PARK
SEWER LIFT STATION
REPLACEMENT

EXISTING SITE PLAN

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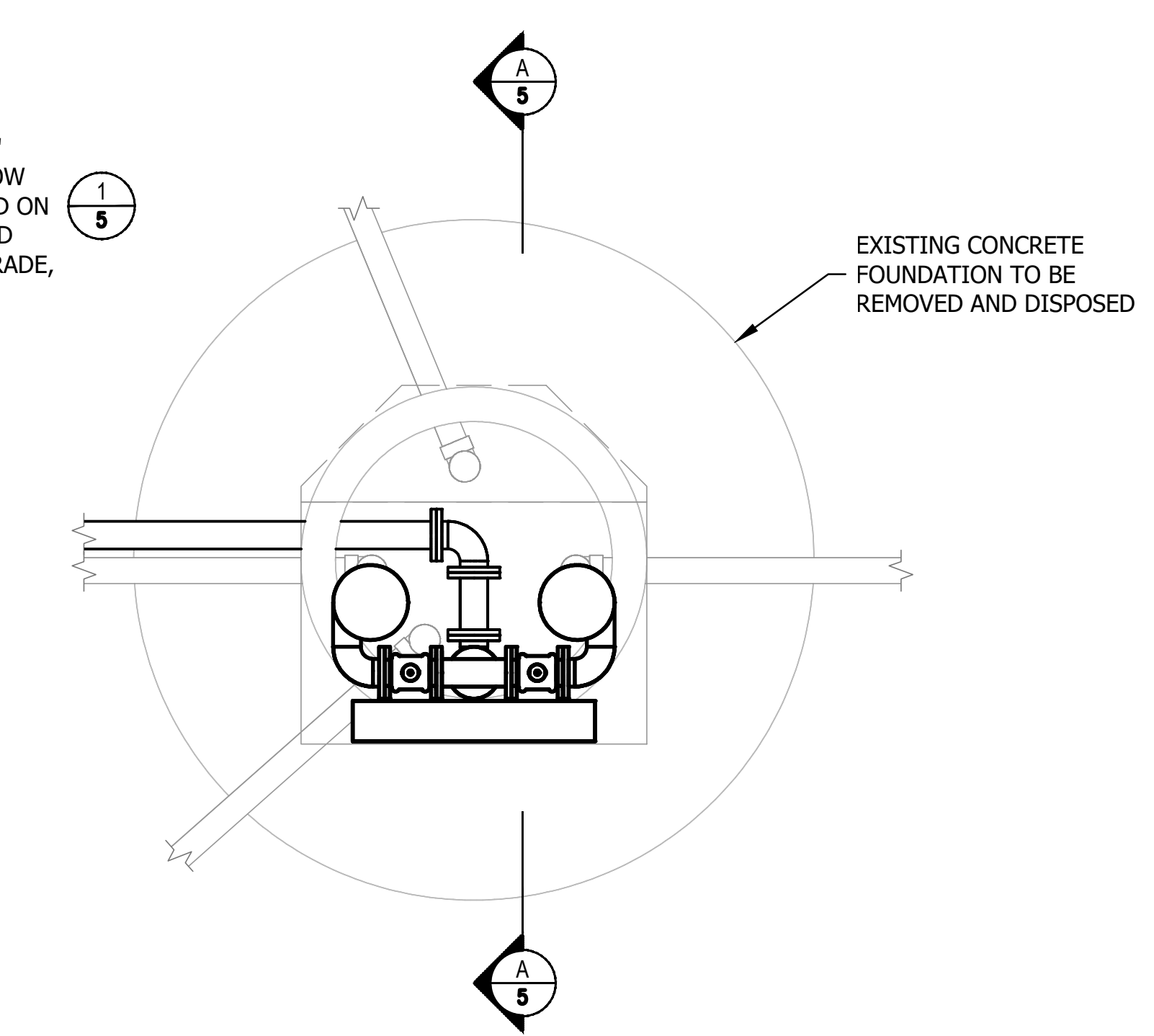
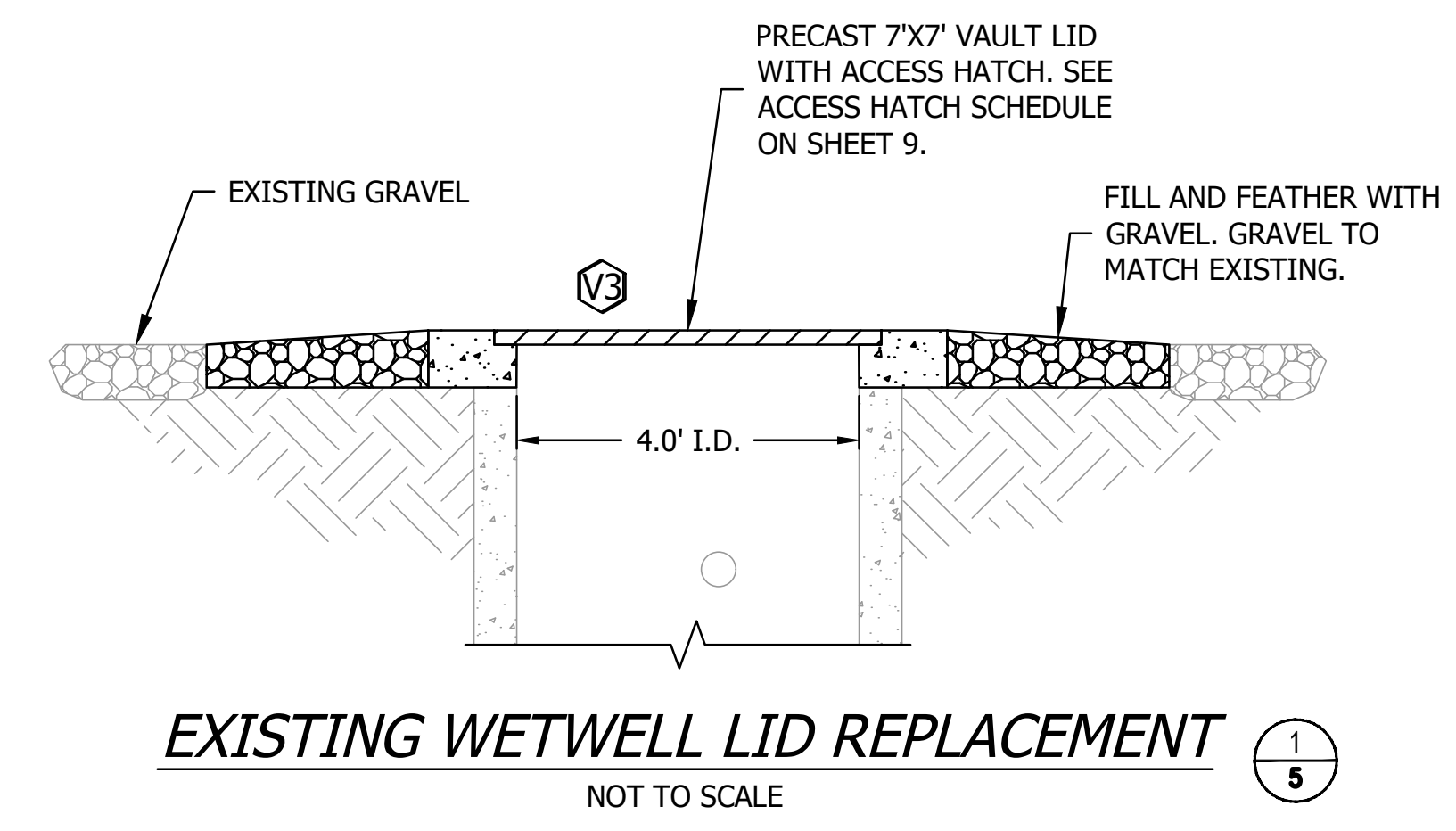
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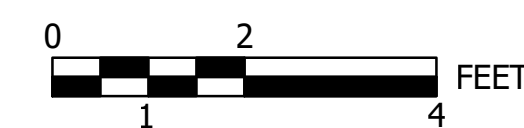
POTHOLES STATE PARK

SEWER LIFT STATION REPLACEMENT

EXISTING MECHANICAL AND DEMOLITION PLAN

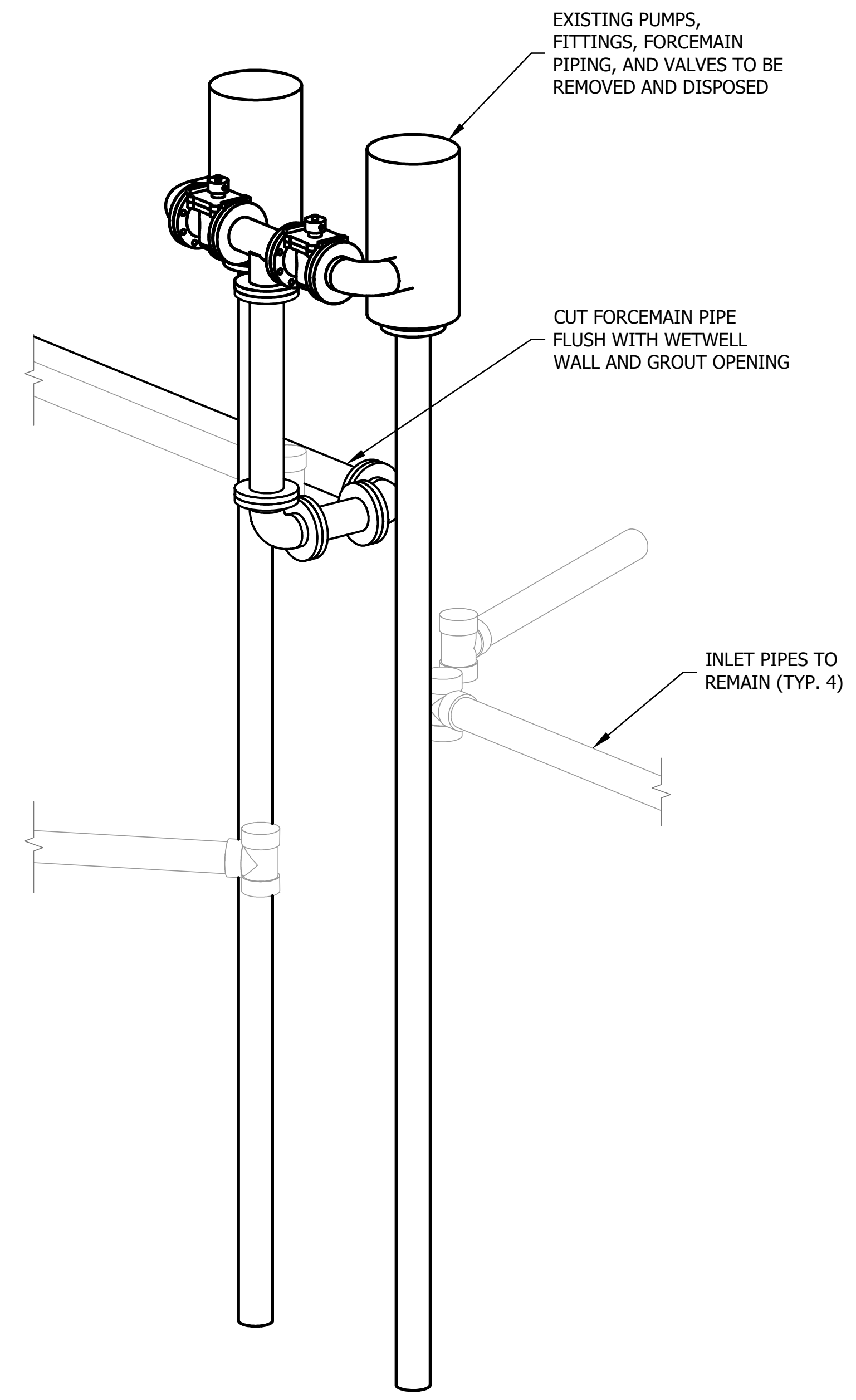


EXISTING LIFT STATION PLAN



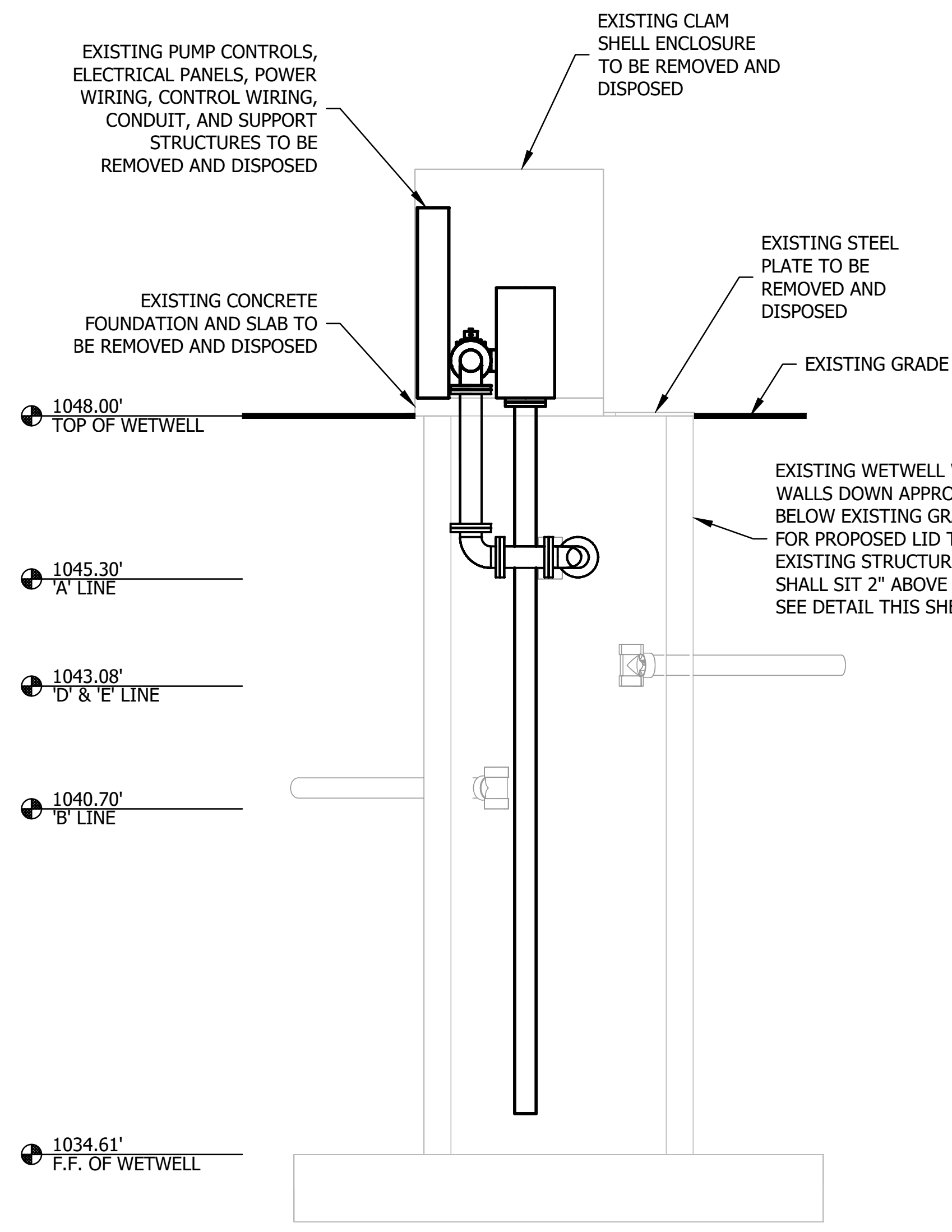
CONSTRUCTION SEQUENCING

1. EXISTING LIFT STATION IS TO REMAIN IN SERVICE DURING CONSTRUCTION. THIS DEMOLITION PLAN SHOWS WORK THAT WILL OCCUR AFTER THE NEW STATION IS IN SERVICE.
2. IF CONTRACTOR NEEDS TO TEMPORARILY SHUT DOWN EXISTING LIFT STATION, CONTRACTOR SHALL PROVIDE ALL EQUIPMENT AND LABOR TO REMOVE SEWAGE FROM WETWELL AND TRANSPORT IT TO THE PARK LAGOONS DURING THE SHUT DOWN.

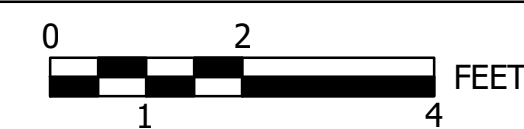


EXISTING LIFT STATION OBLIQUE

NOT TO SCALE

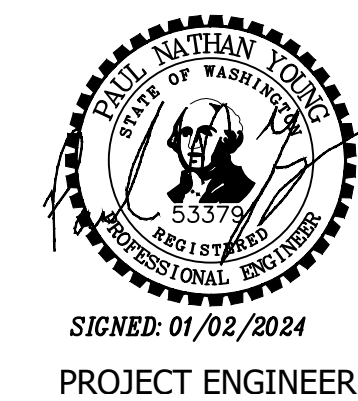


EXISTING WETWELL MECHANICAL ELEVATION



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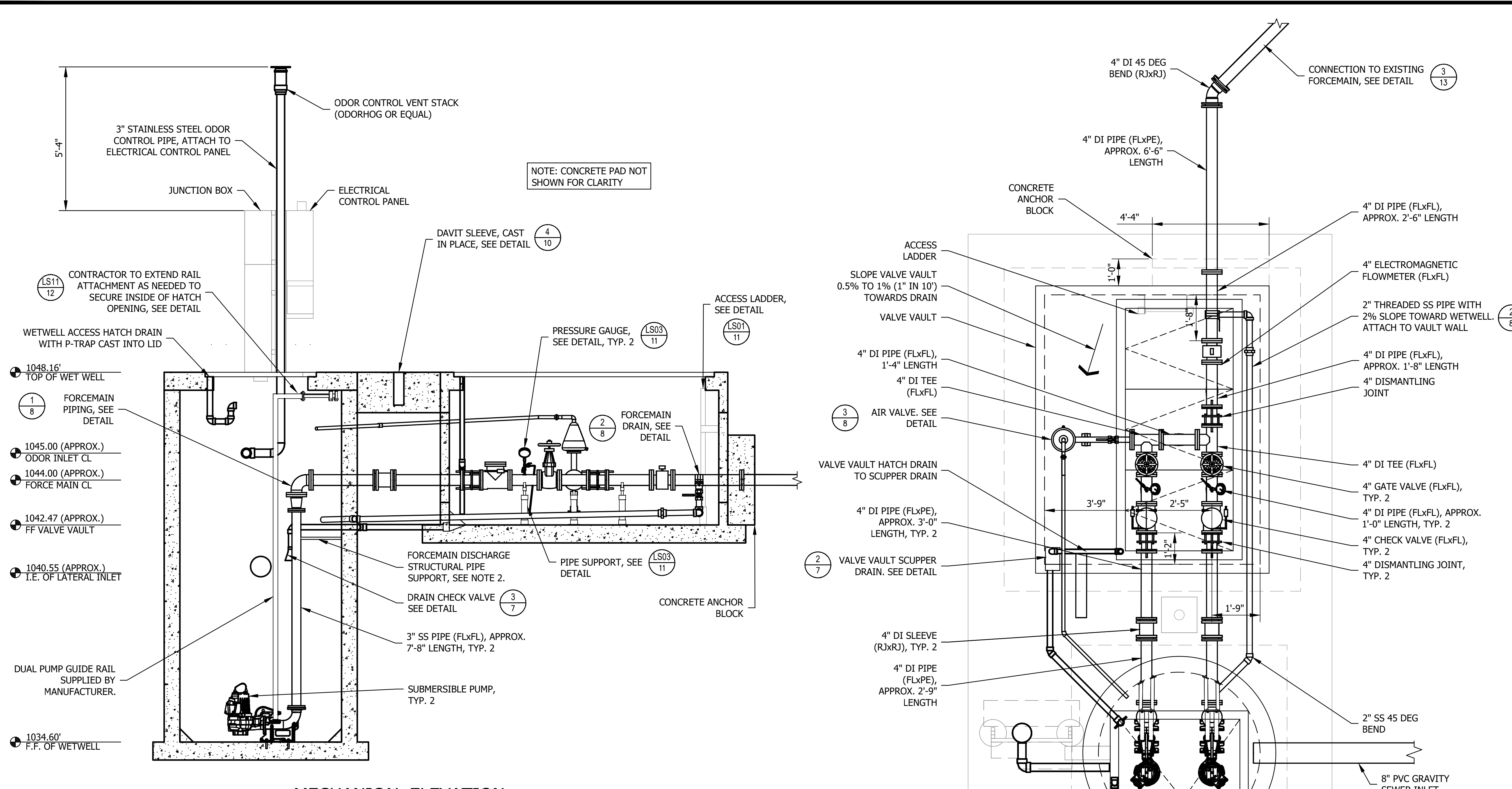
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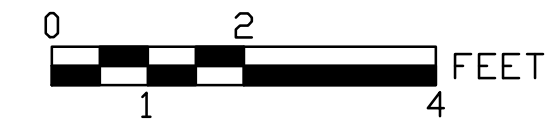
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POTHOLES STATE PARK
SEWER LIFT STATION REPLACEMENT

MECHANICAL PLAN 1



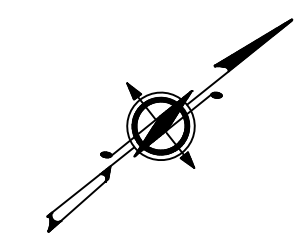
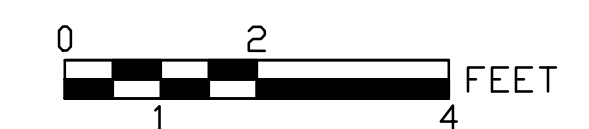
MECHANICAL ELEVATION

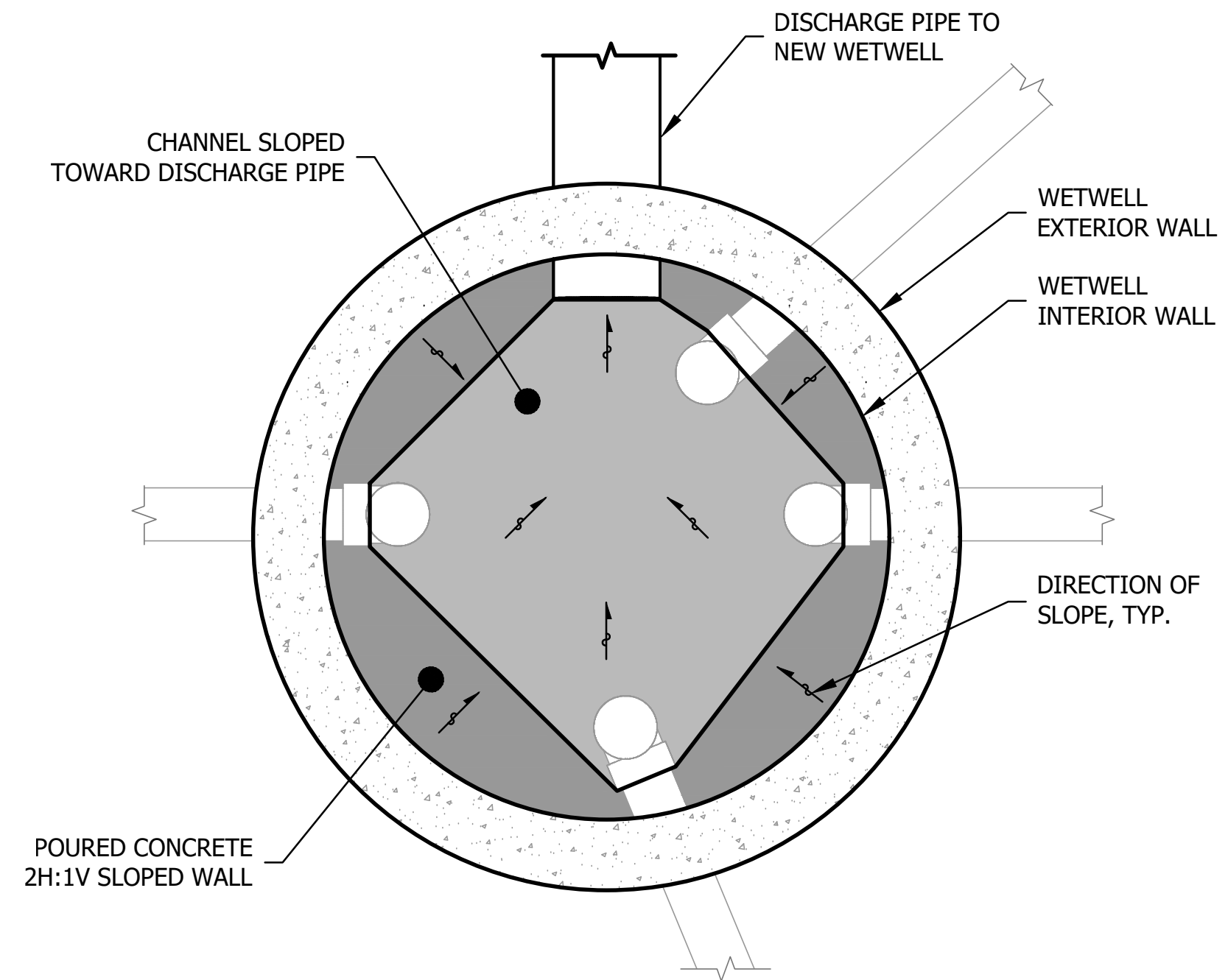


GENERAL MECHANICAL NOTES

1. ALL PIPING SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO VAULT WALLS OR WETWELL CENTERLINE U.N.O.
2. SUPPORT VERTICAL PORTION OF FORCEMAIN IN WET WELL WITH 2"x2" SS ANGLE BOLTED TO WET WELL WALL AND ATTACH TO PIPE WITH A SS CLAMP.
3. ELEVATIONS, DIAMETERS AND ORIENTATIONS SHOWN FOR EXISTING PIPES HAVE NOT BEEN SURVEYED AND ARE TAKEN FROM PAST RECORDS.

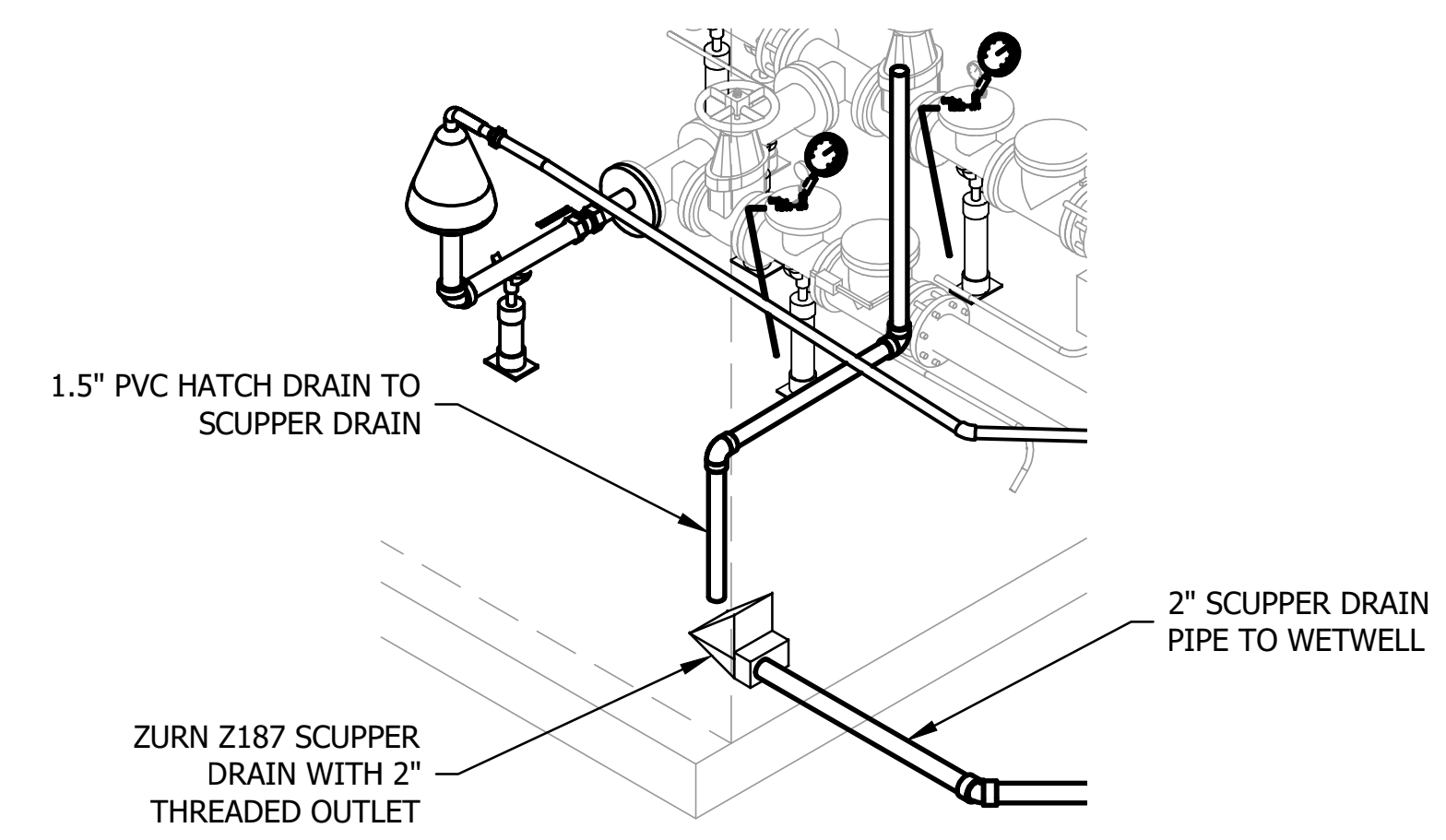
MECHANICAL PLAN





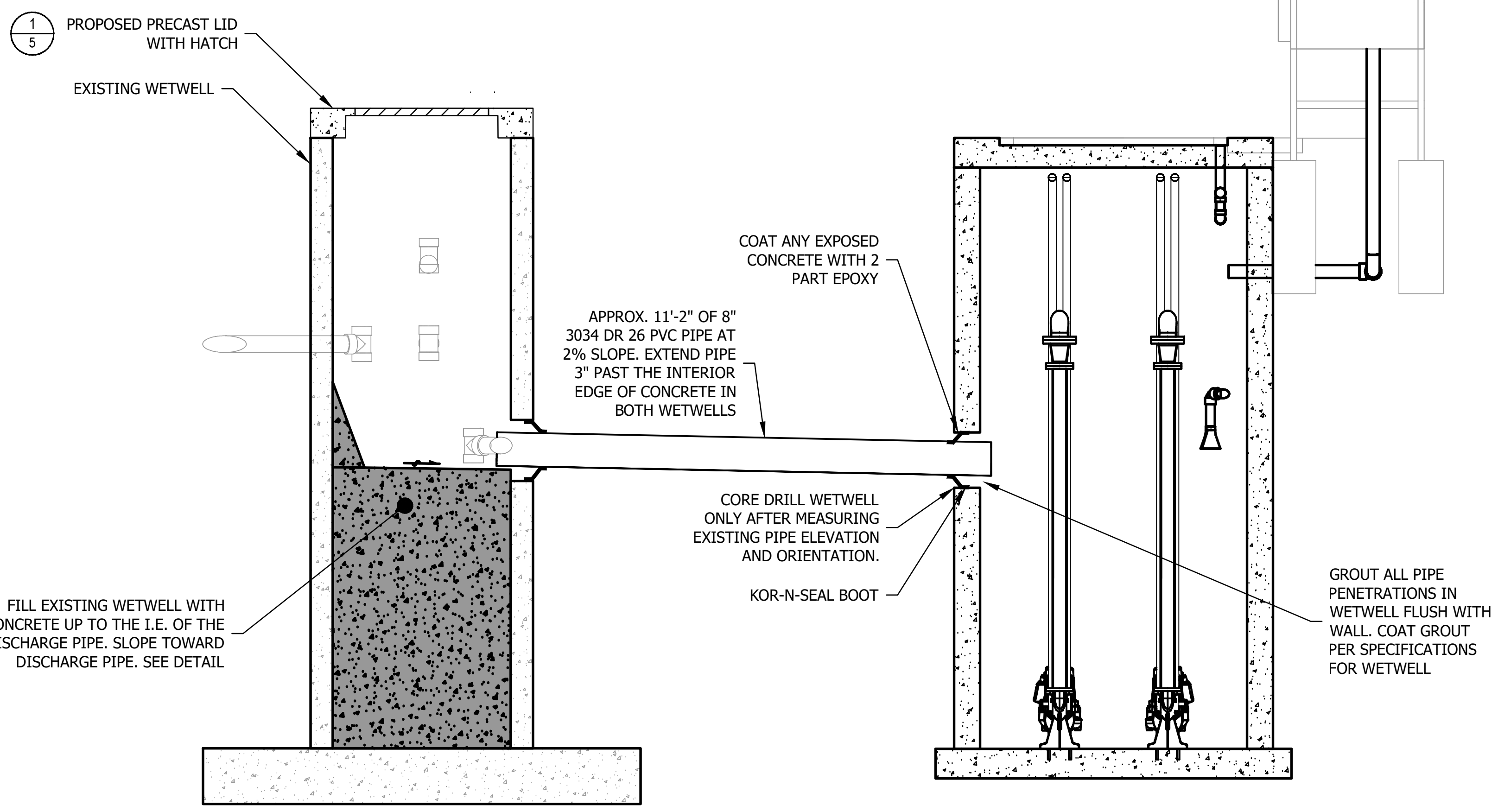
EXISTING WETWELL BASE DETAIL

1/7



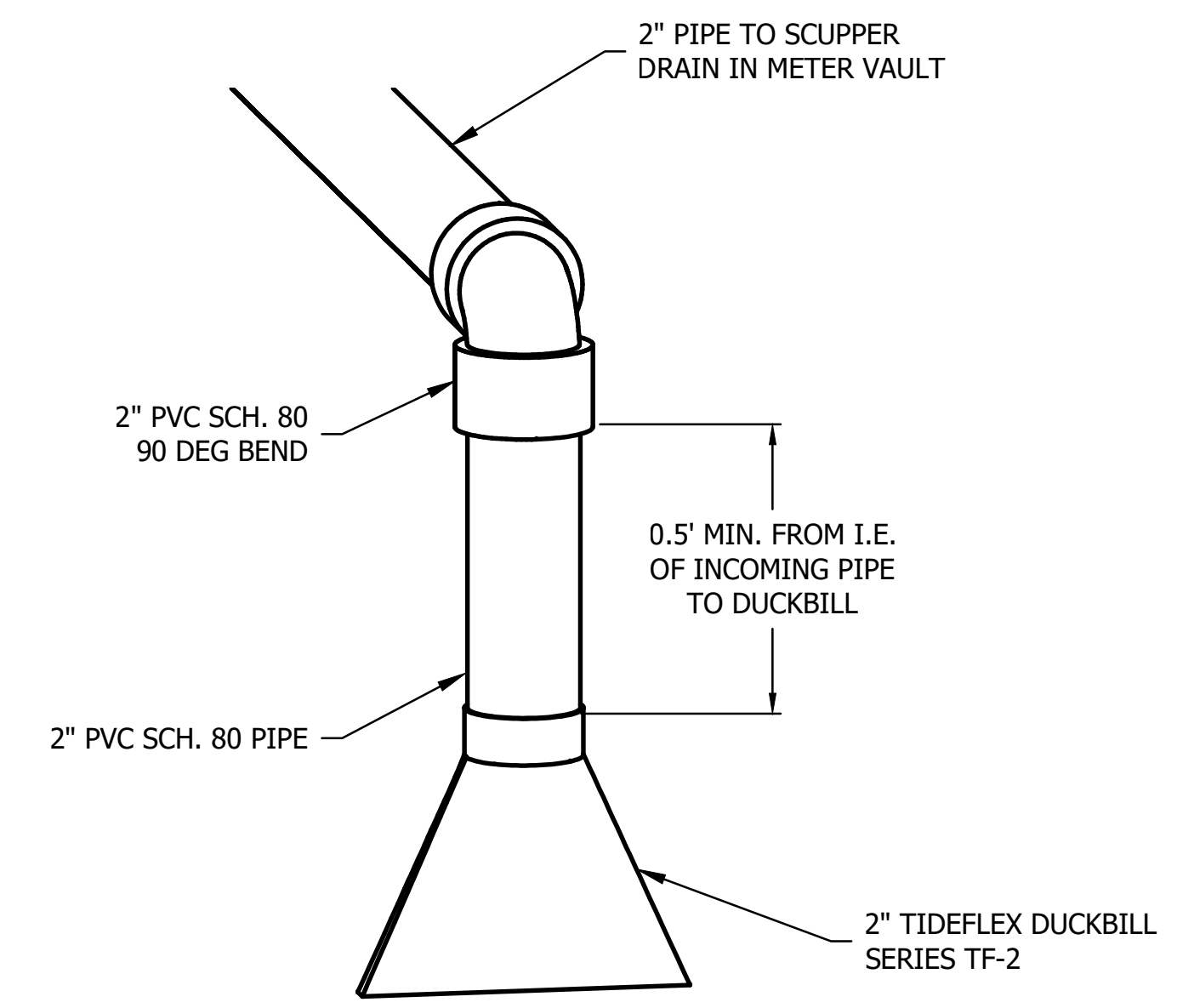
VALVE VAULT SCUPPER DRAIN

2/6



MECHANICAL ELEVATION

0 2 4 FEET

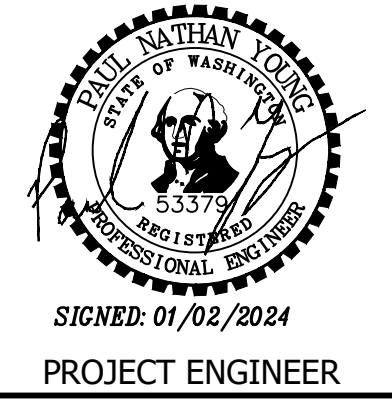


VALVE VAULT DRAIN DISCHARGE IN WETWELL

3/6

CAD NO. PSP-P-MECH		
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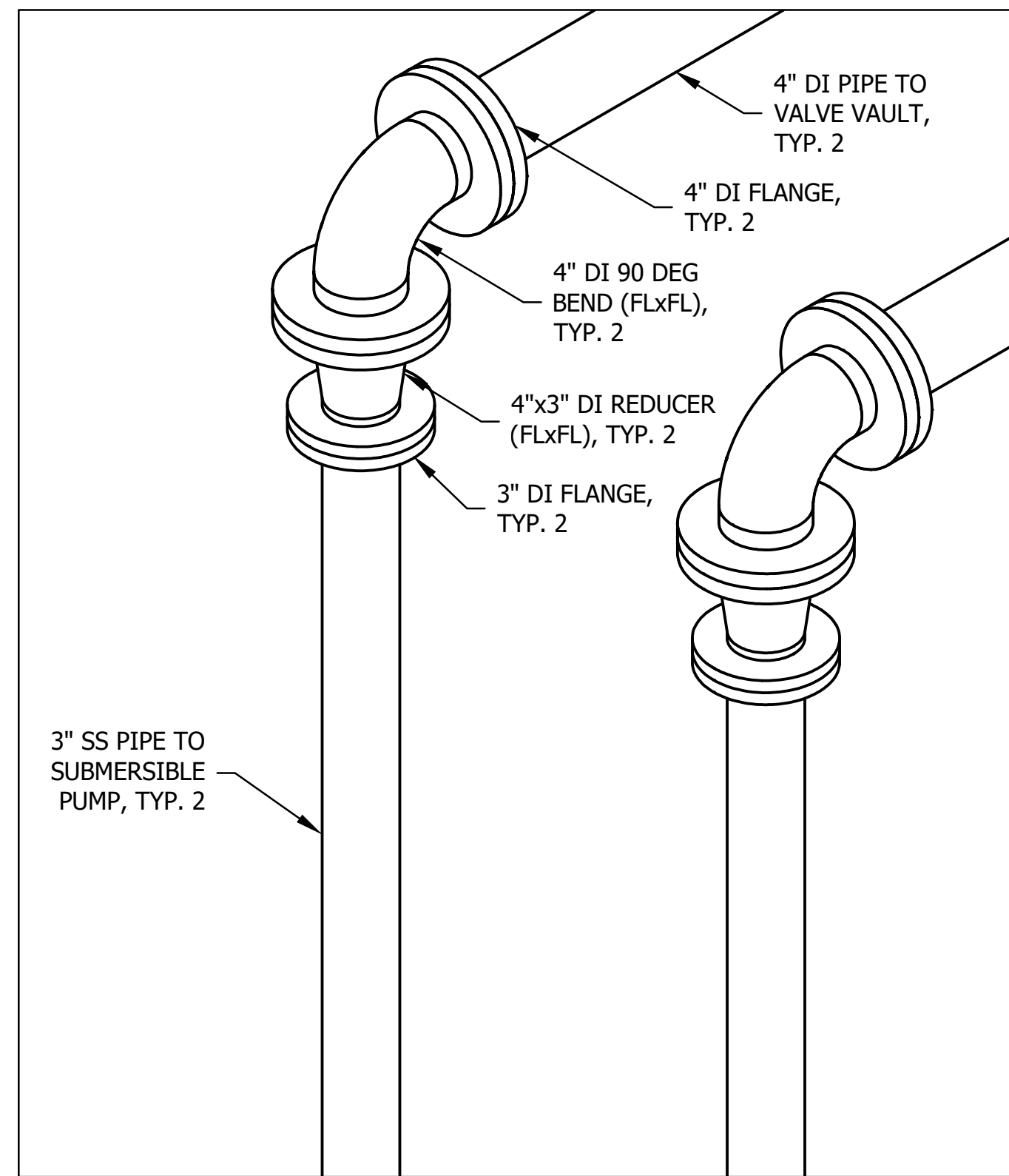


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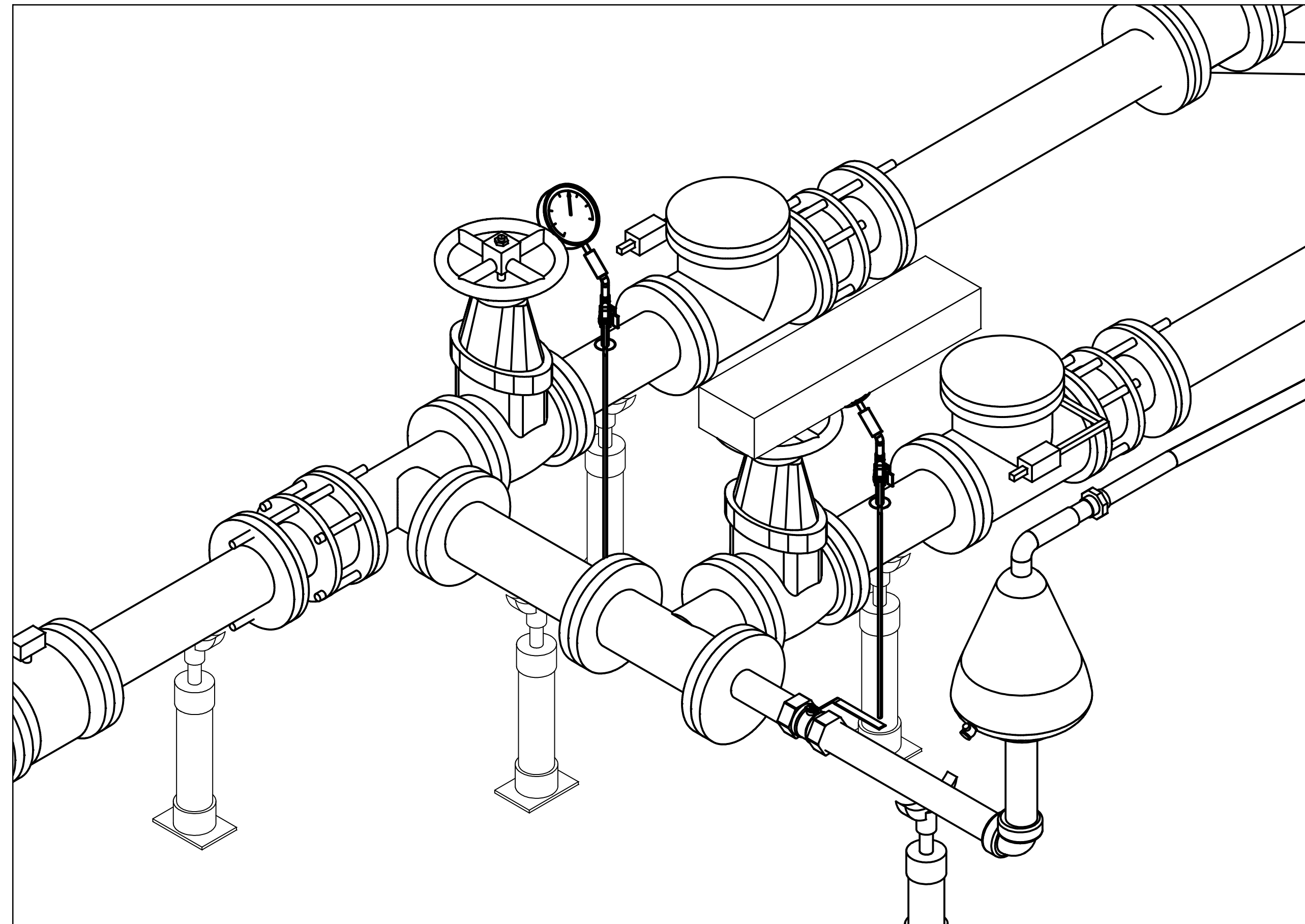
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SEWER LIFT STATION REPLACEMENT

MECHANICAL PLAN 2

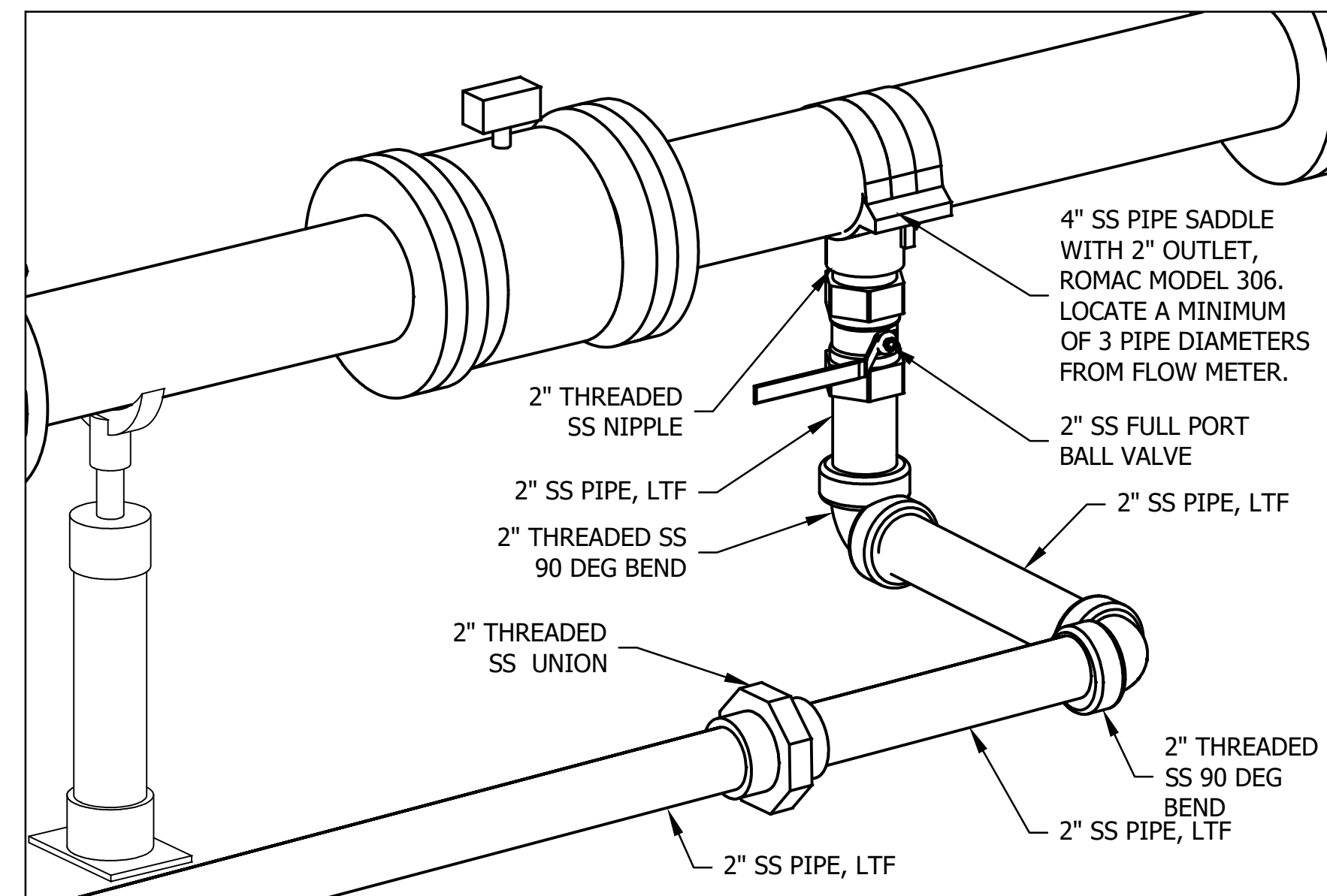




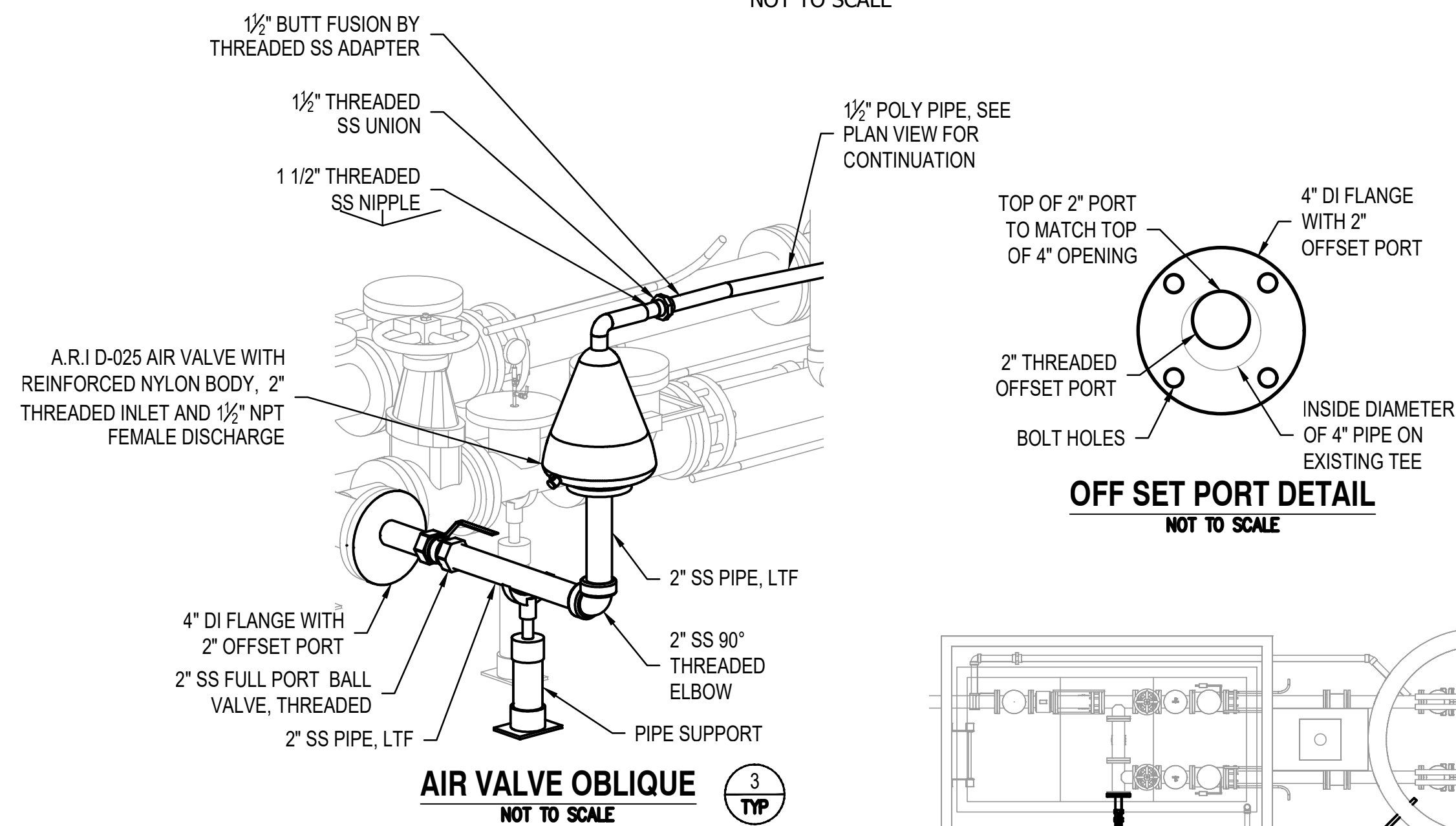
**TYPICAL WET WELL FORCEMAIN
VERTICAL PIPING OBLIQUE** 1
TYP
NOT TO SCALE



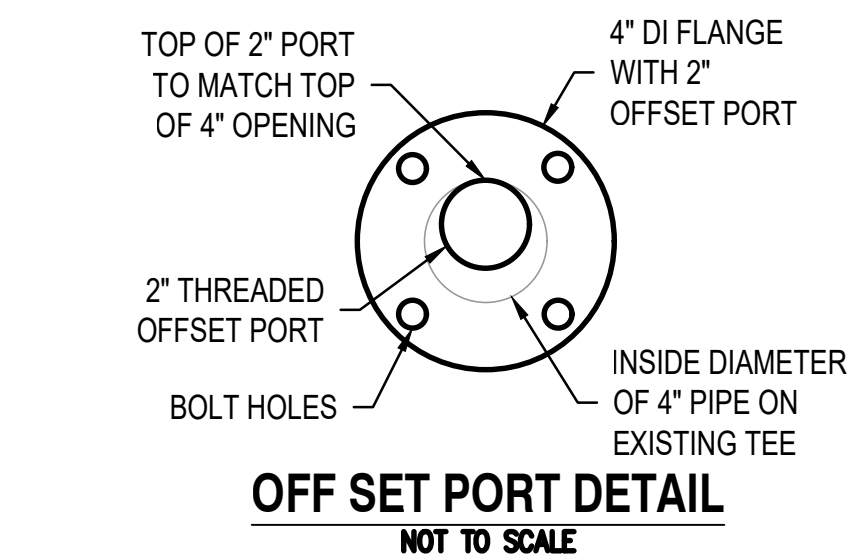
**VALVE VAULT
PIPING OBLIQUE**
NOT TO SCALE



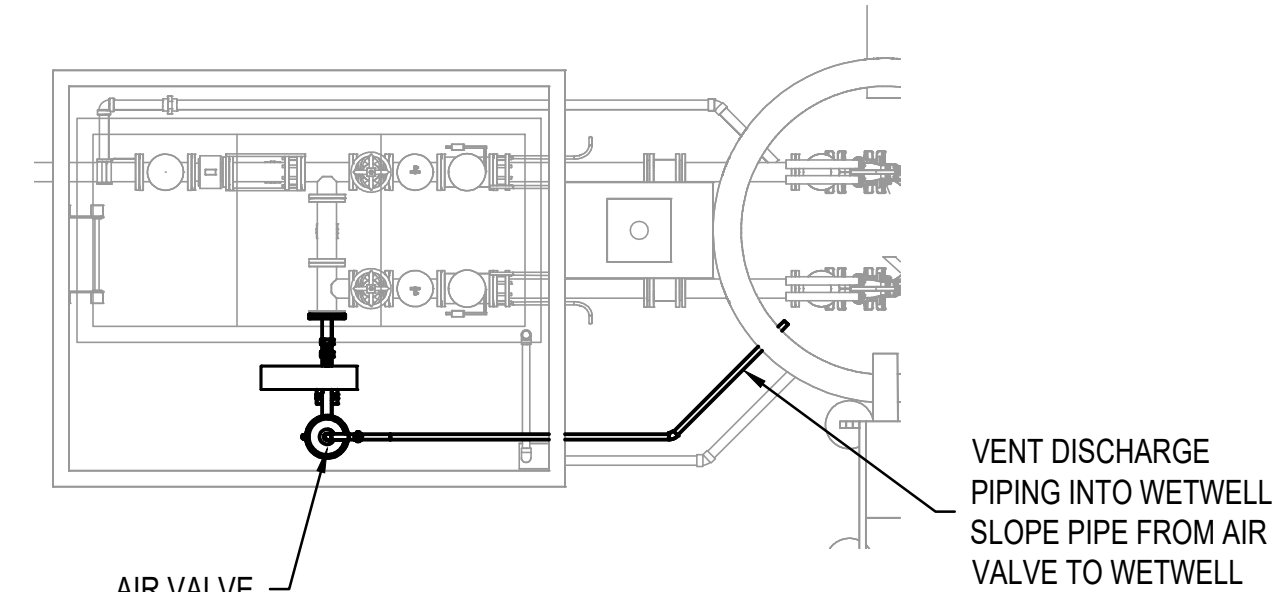
**TYPICAL VALVE VAULT FORCEMAIN
DRAIN OBLIQUE** 2
TYP
NOT TO SCALE



AIR VALVE OBLIQUE 3
TYP
NOT TO SCALE



OFF SET PORT DETAIL
NOT TO SCALE



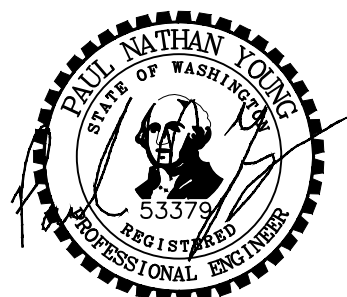
AIR VALVE PLAN
NOT TO SCALE

VENT DISCHARGE
PIPING INTO WETWELL.
SLOPE PIPE FROM AIR
VALVE TO WETWELL

CAD NO. psp-p-mech

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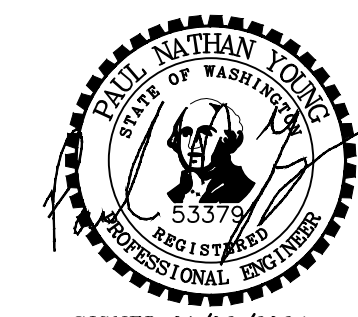
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SEWER LIFT STATION
REPLACEMENT

MECHANICAL DETAILS

SHEET 8 OF 20



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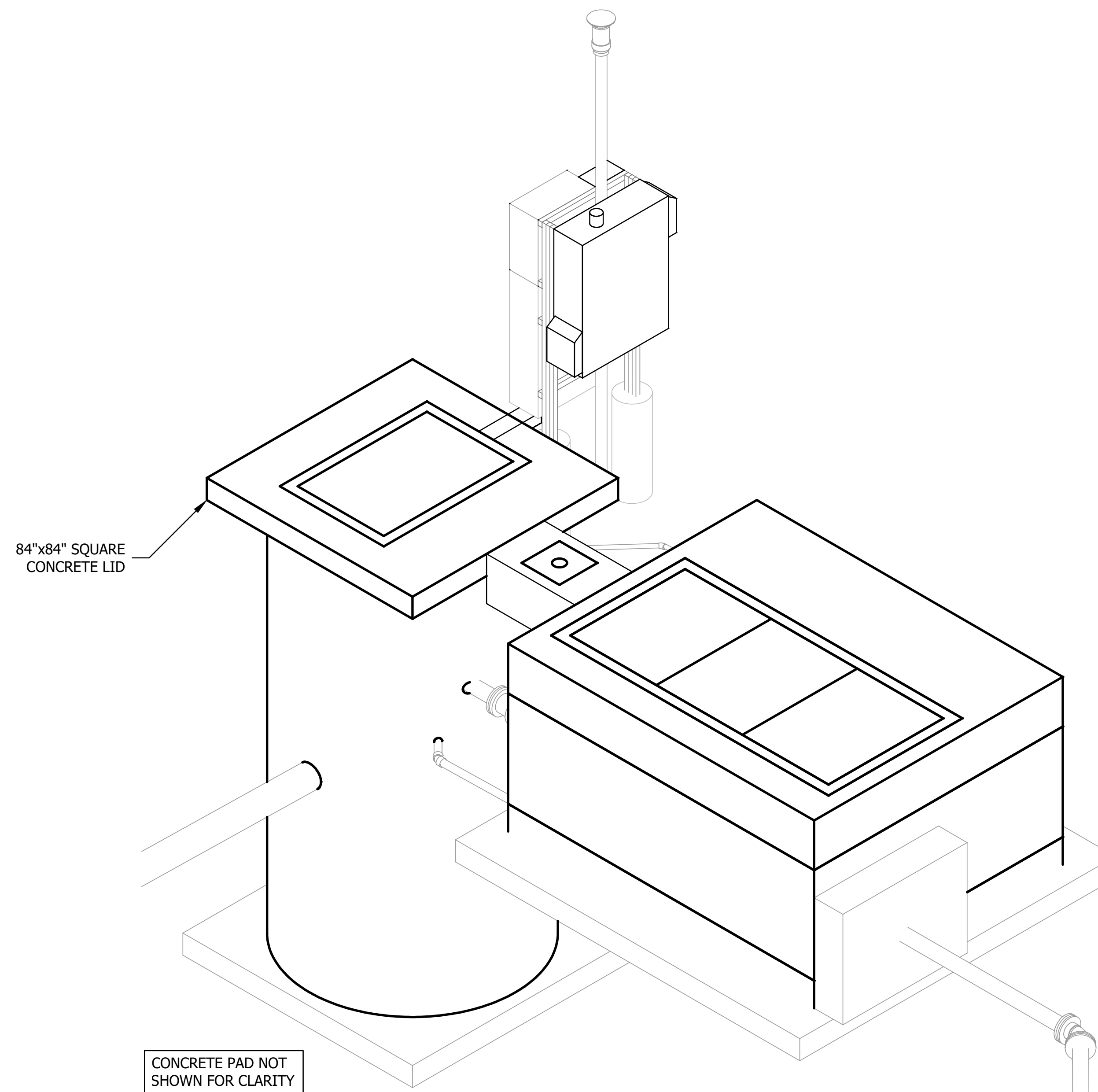
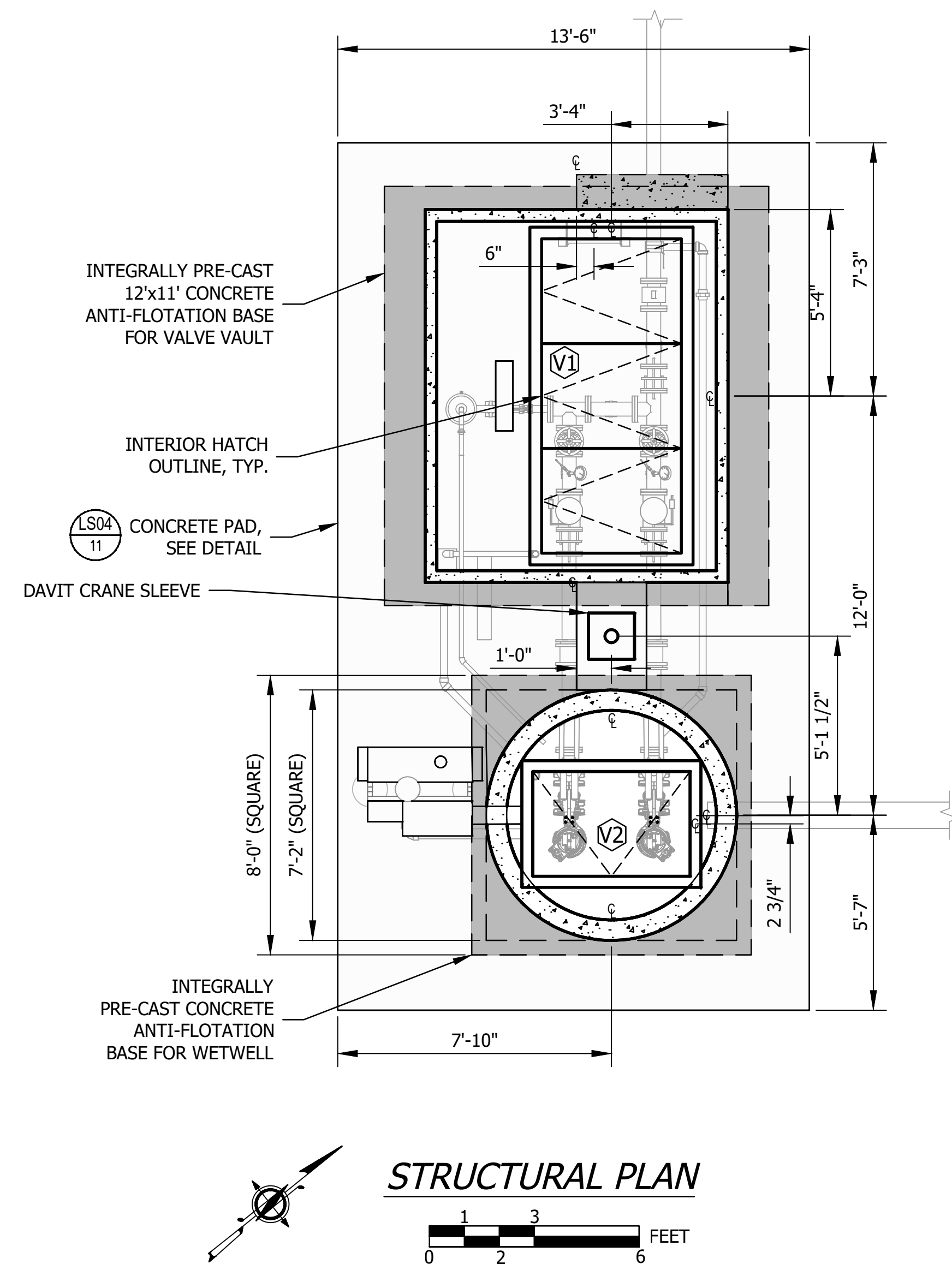
WASHINGTON STATE PARKS AND RECREATION COMMISSION



POTHoles STATE PARK
SEWER LIFT STATION REPLACEMENT

STRUCTURAL PLAN

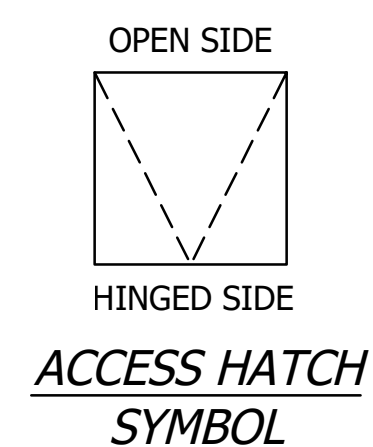
PRECAST CONCRETE VAULT SCHEDULE		
ID NO.	MODEL	APPROX. INTERIOR DIMENSIONS (L X W X H)
V1	H2 PRE-CAST 810 VAULT OR APPROVED EQUAL	10'-0" X 8'-0", SEE ELEVATION VIEW FOR DEPTH
V2	H2 PRE-CAST 72" DIAMETER MANHOLE - TYPE 3 OR APPROVED EQUAL	72" DIAMETER, SEE ELEVATION VIEW FOR DEPTH

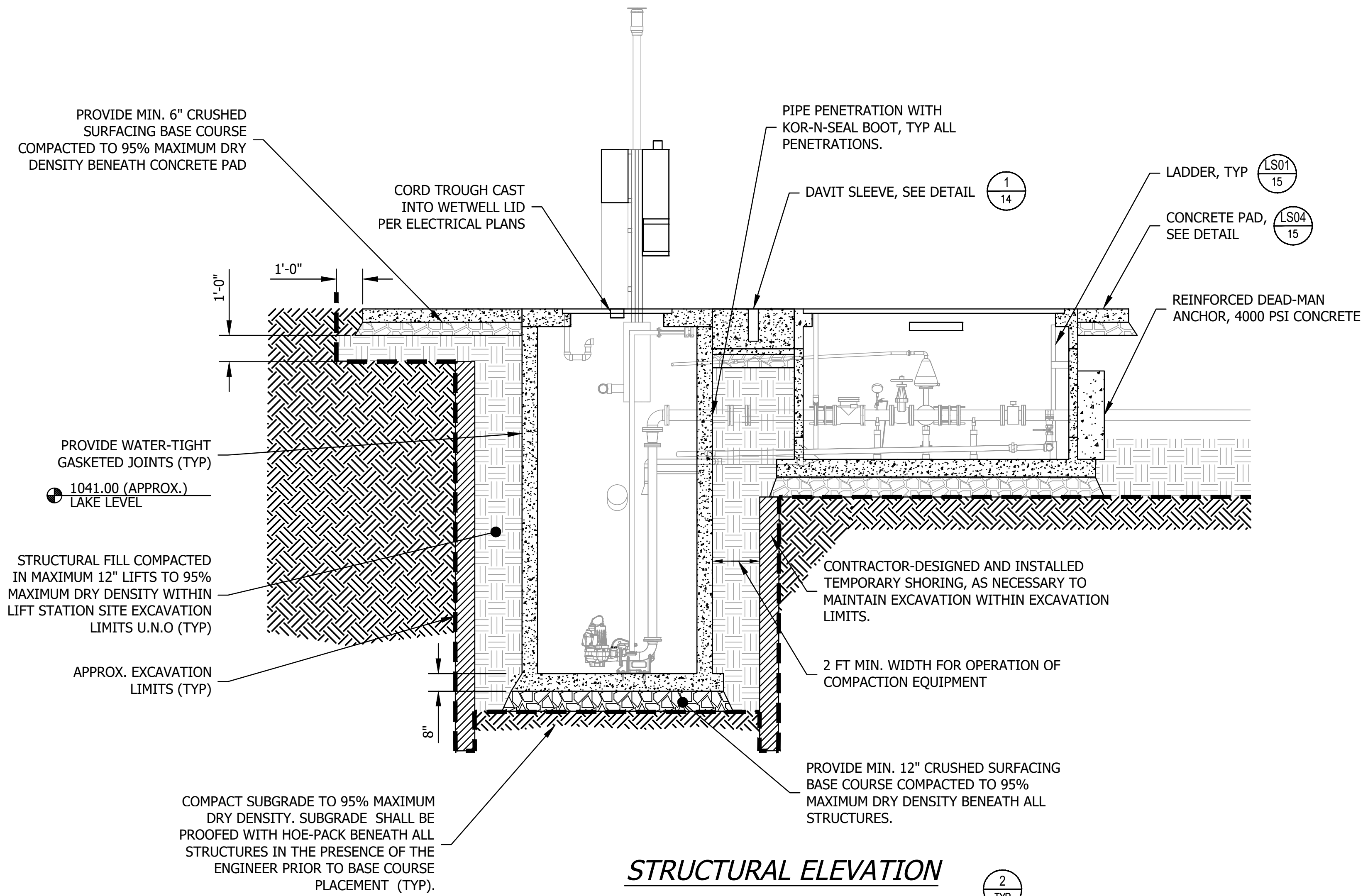


ACCESS HATCH SCHEDULE								
ID NO.	CLEAR OPENING	NO. OF LEAVES	MATERIAL	RATING	MOUNTING	SAFETY GRATING	GASKET	INSULATION
V1	48" X 108"	3	ALUMINUM	300 LBS/SF	EMBEDDED	NO	STANDARD	YES
V2	54" X 36"	1	ALUMINUM	300 LBS/SF	EMBEDDED	YES	ODOR TIGHT	NO
V3	48" X 48"	2	ALUMINUM	H-20	EMBEDDED	NO	ODOR TIGHT	NO

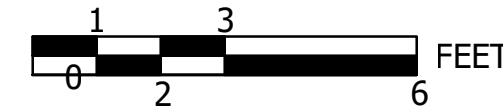
HATCH NOTES

- SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- WETWELL HATCH FRAME TO BE MODIFIED FOR PUMP CABLE REMOVAL. DEBUR AND GRIND ALL CUT EDGES SMOOTH.





STRUCTURAL ELEVATION



2
TYP

GENERAL NOTES

1. ALL STRUCTURE RIMS SHALL BE SET 2" ABOVE EXISTING GRADE.
2. MAXIMUM DRY DENSITY OF FILL SHALL BE DETERMINED BY THE MODIFIED PROCTOR TEST (ASTM D 1557)
3. EXPOSED EXTERIOR ROOFS OF ALL PRECAST STRUCTURES SHALL BE COATED PER THE SPECIFICATIONS.
4. THE INTERIOR OF THE WETWELL SHALL BE COATED PER THE SPECIFICATIONS. CONCRETE ANTI-FLOTATION BASES TO BE PRE-CAST AROUND WETWELL BASES. BOTTOM ELEVATION OF ANTI-FLOTATION BASES TO MATCH BOTTOM ELEVATION OF WETWELL BASES. PRECAST STRUCTURES TO BE PROVIDED WITH RISERS AS NECESSARY TO MATCH STRUCTURE CLEARANCE HEIGHTS SHOWN ON PLANS.
5. GROUNDWATER IS TO BE EXPECTED IN THE EXCAVATION. CONTROL WATER TO KEEP EXCAVATION DRY DURING INSTALLATION. SEE SPECIFICATIONS DIVISION 31.



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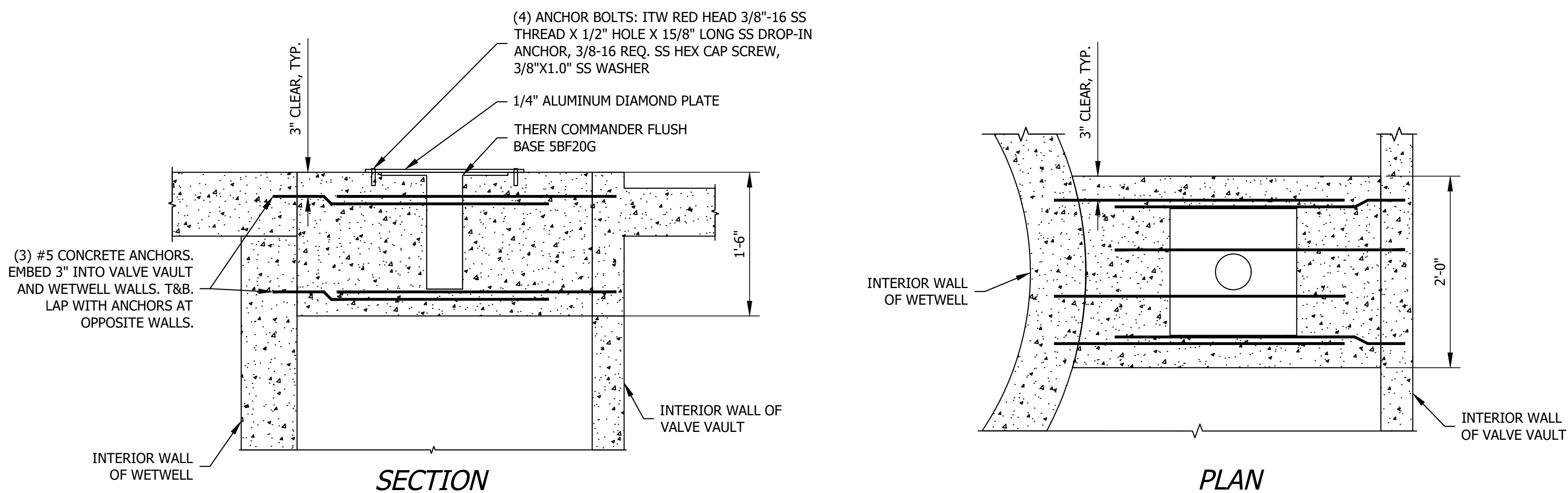


POTHOLES
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SEWER LIFT STATION
REPLACEMENT

STRUCTURAL
ELEVATIONS AND PLAN

SHEET 10 OF 20



DAVIT SLEEVE DETAILS

NOT TO SCALE

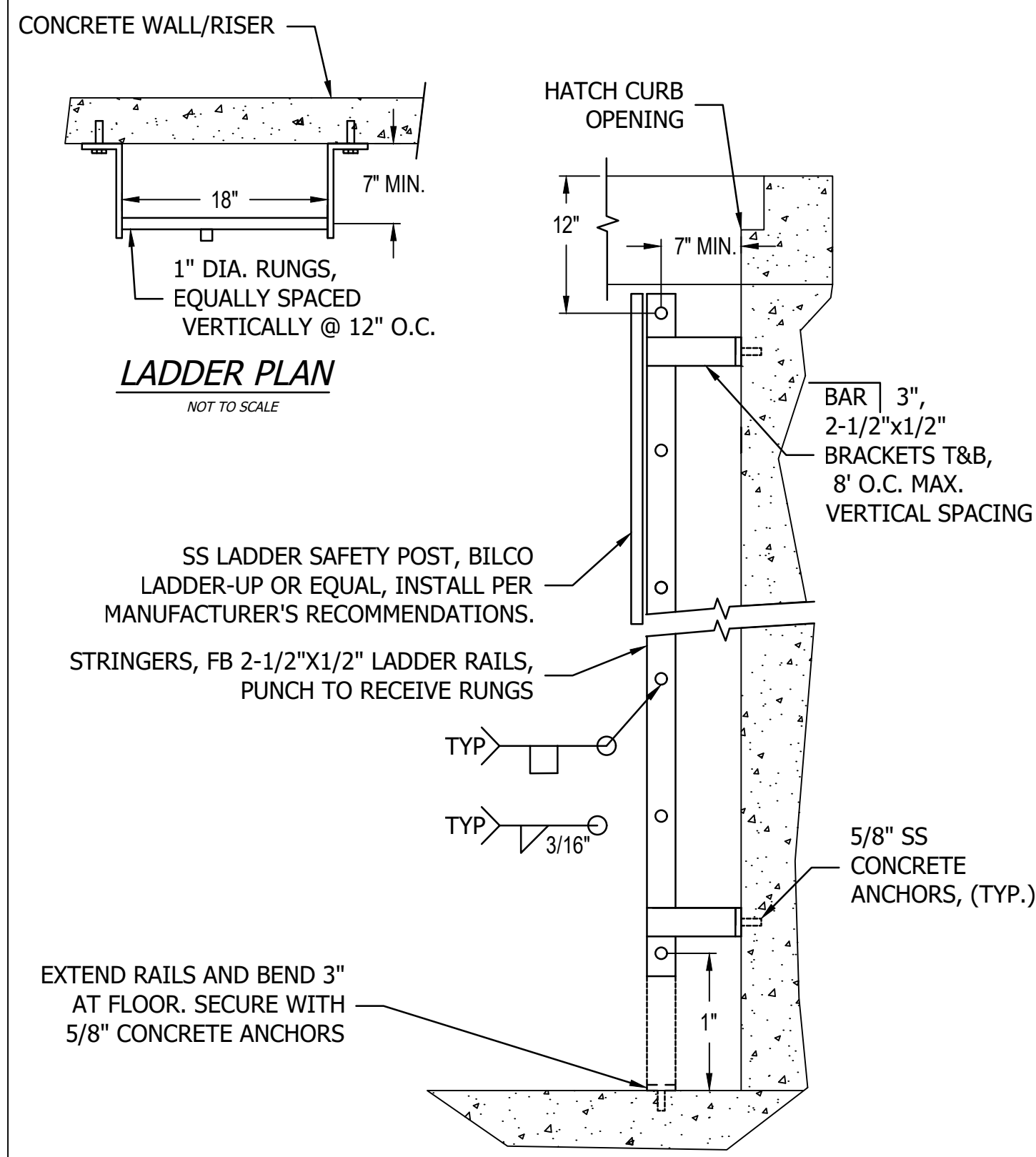
4
TYP

BAR SIZE	MINIMUM STRAIGHT DEVELOPMENT LENGTHS		MINIMUM LAP SPLICE LENGTHS	MINIMUM EMBEDMENT LENGTHS
	TENSION BARS		TENSION BARS	END HOOKS
	TOP BARS	OTHER BARS	TOP BARS	ALL BARS
#3	19"	15"	25"	6"
#4	25"	19"	33"	7"
#5	31"	24"	41"	9"
#6	37"	29"	49"	10"
#7	54"	42"	71"	12"
#8	62"	48"	81"	14"
#9	70"	54"	91"	15"
#10	79"	61"	103"	17"

↑ "TOP BARS" ARE HORIZONTAL BARS WITH MORE THAN 12" DEPTH OF CONCRETE CAST BELOW THEM.
IF CLEAR CONCRETE COVER IS LESS THAN 2x THE DIAMETER OF THE BAR OR THE CENTER-TO-CENTER SPACING IS LESS THAN (4) BAR DIAMETERS, THEN VALUES SHALL BE INCREASED BY 43%.

**REINFORCEMENT SPLICE
AND DEVELOPMENT
LENGTH SCHEDULE**

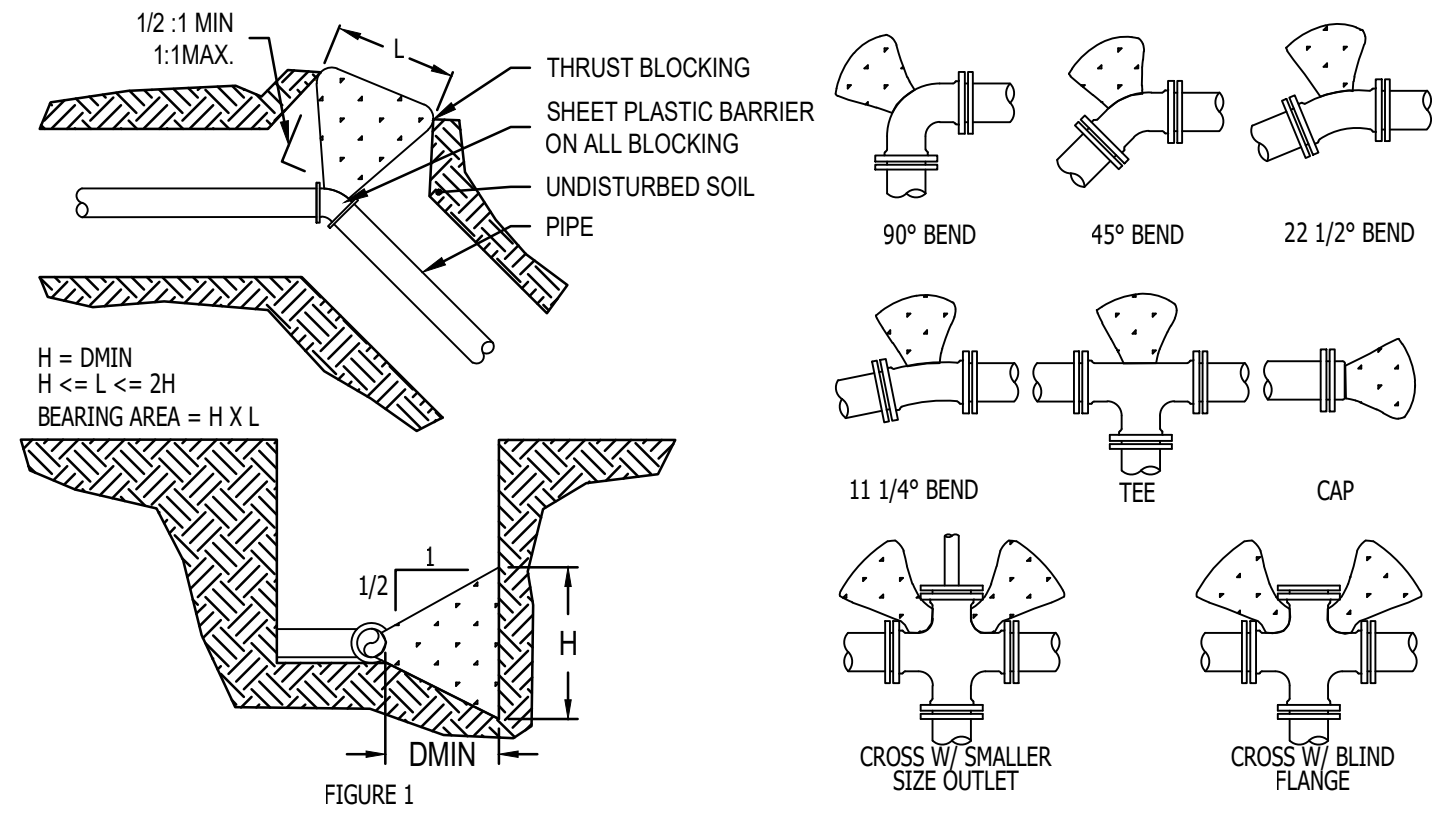




LADDER PROFILE
NOT TO SCALE

LADDER DETAIL
NOT TO SCALE

LS01
TYP



- CONSTRAINTS**
- SOIL CONDITIONS AND BEARING CHARACTERISTICS ARE TO BE DETERMINED BY THE INSPECTOR.
 - THIS STANDARD DETAIL IS FOR HORIZONTAL THRUST RESTRAINT ONLY.
 - CONCRETE BLOCKING SHALL BE PER APWA SPECIFICATION 7-11.3(13) 1984.
 - CONCRETE THRUST BLOCKING FOR FITTINGS LARGER THAN 16" SHALL BE AS SHOWN ON THE PROJECT PLANS.
 - MAINTAIN 18" MINIMUM GROUND COVER OVER THE TOP OF ALL CONCRETE BLOCKING.
 - WRAP FITTINGS WITH 8 mil THICK POLYETHYLENE

TABLE 1: BEARING FACTOR

SIZE	TEST PRESSURE	TEES DEAD ENDS	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
3	300	2.25	2.25	2.25	2.25	2.25
4	300	2.25	2.25	2.25	2.25	2.25
6	300	2.83	4.00	2.25	2.25	2.25
8	300	5.00	7.11	3.85	2.25	2.25
10	300	7.86	11.11	6.00	3.06	2.25
12	300	11.31	16.00	8.66	4.41	2.25
14	250	12.83	18.14	9.82	5.00	2.51
16	225	15.08	21.33	11.54	5.88	2.96

* 2.25 BASED ON GEOMETRIC FACTORS

TABLE 2: MULTIPLICATION FACTOR

SOIL CONDITION	MULTIPLICATION FACTOR
*MUCK, PEAT, ETC.	3.0
SOFT CLAY	1.5
SAND	1.0
SAND AND GRAVEL	1.0
SAND AND GRAVEL CEMENTED W/ CLAY	0.75
HARD SHALE	0.30

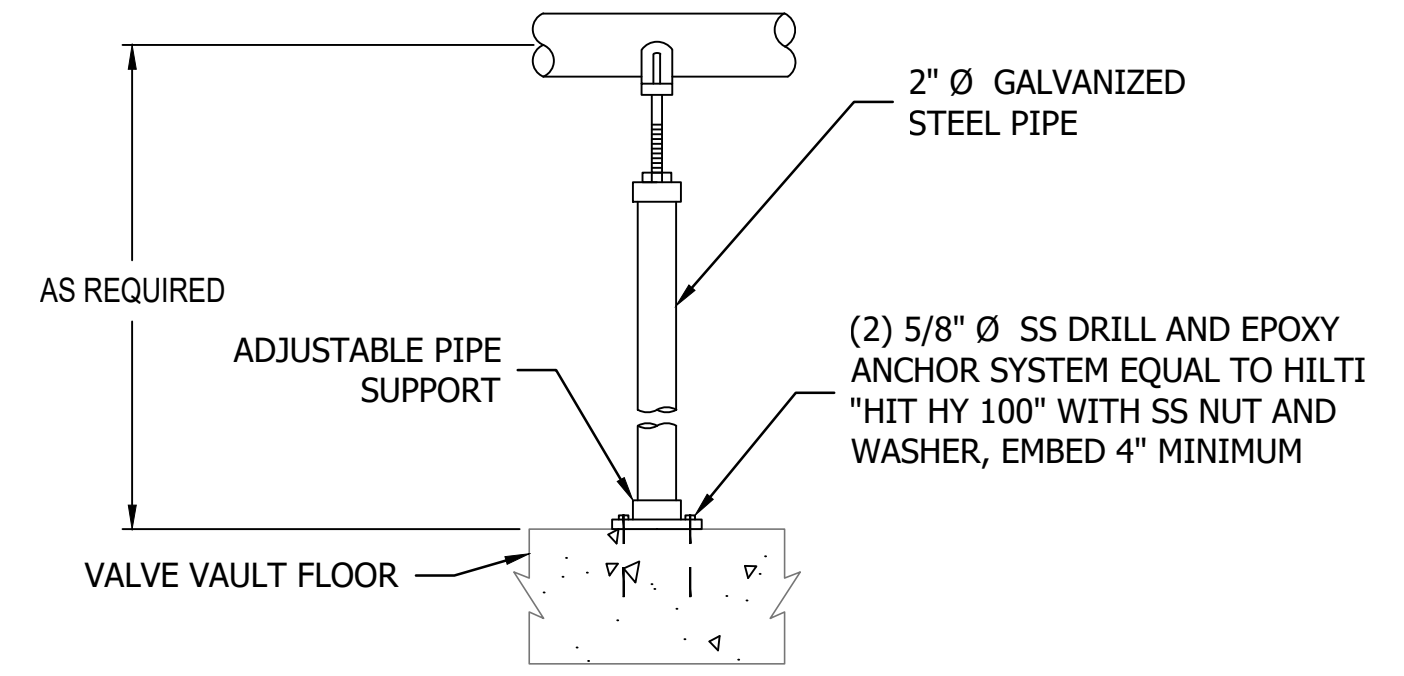
* THRUST BLOCKING SHALL BE DESIGNED BY ENGINEER

TABLE 3: BLOCK SHAPE

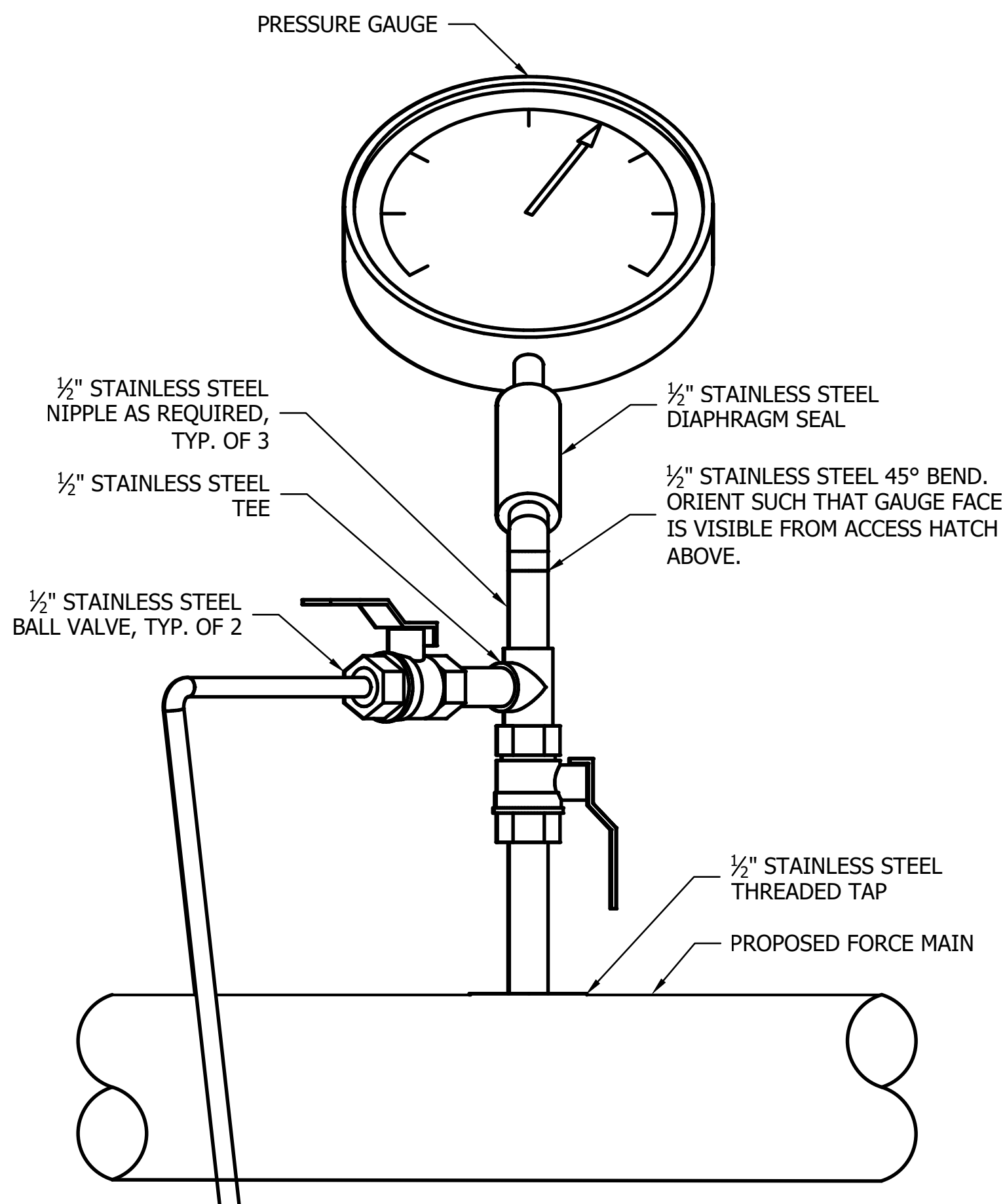
REQ'D BEARING AREA (SQ. FT.)	MINIMUM DEPTH DMIN
2.25 MIN - 5.0	1.5'
5.01 - 10.0	2.25'
10.01 - 15.0	3.0'
15.01 - 30.0	4.0'
30.01 - 40.0	4.5'
40.01 - 50.0	5.0'
50.01 - 70.0	6.0'

THRUST BLOCK DETAILS
NOT TO SCALE

LS02
TYP



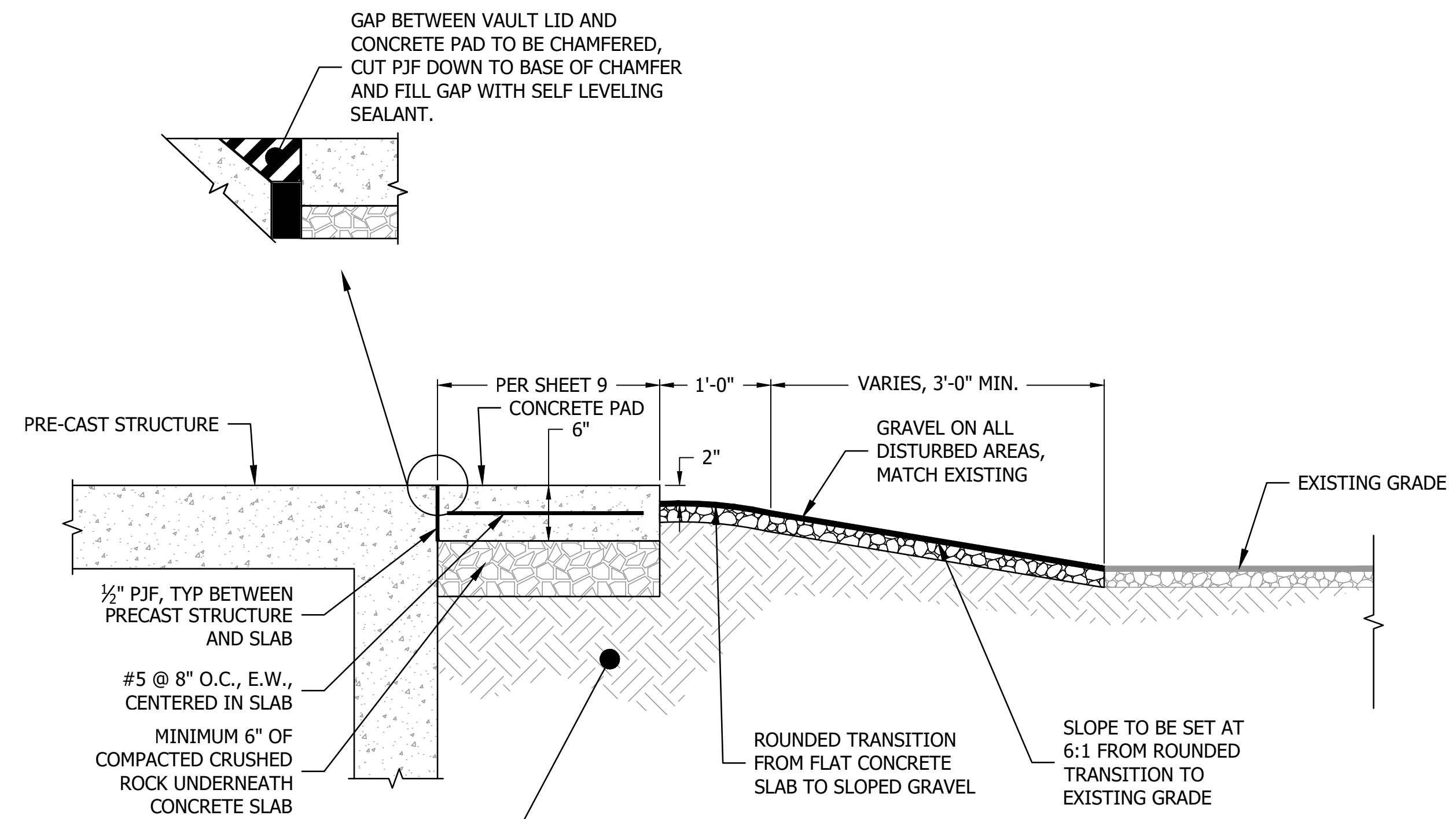
VERTICAL PIPE SUPPORT DETAIL
NOT TO SCALE



PRESSURE GAUGE DETAILS
NOT TO SCALE

VAULT DETAILS
NOT TO SCALE

LS03
TYP



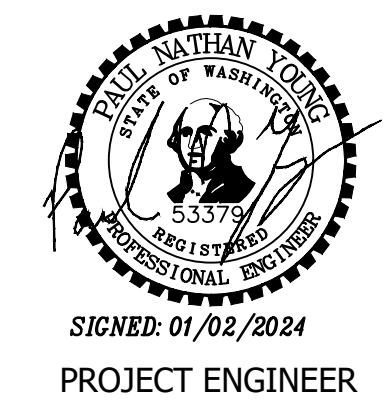
CONCRETE PAD DETAIL
NOT TO SCALE

LS04
TYP

CAD NO. psp-p-ldet

NO.	REVISIONS	INT.	APP.	DATE

ACTION	BY	DATE
DESIGNED	PNY	1/2/2024
DRAWN	JTR	1/2/2024
CHECKED (FIELD)		
CHECKED (HDQTS.)		

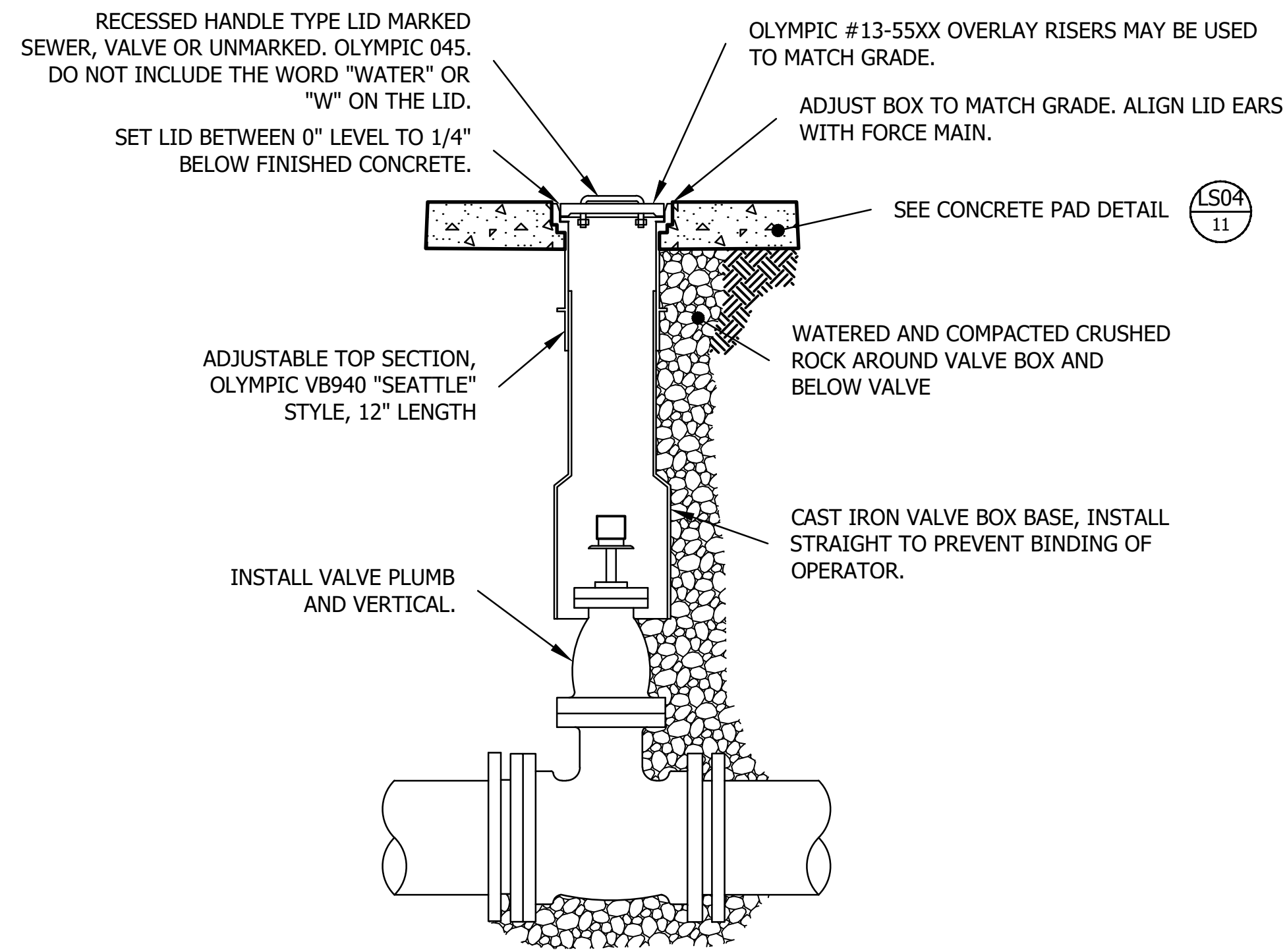


WASHINGTON STATE PARKS AND RECREATION COMMISSION

POTHOLES STATE PARK
SEWER LIFT STATION REPLACEMENT

LIFT STATION DETAILS 1





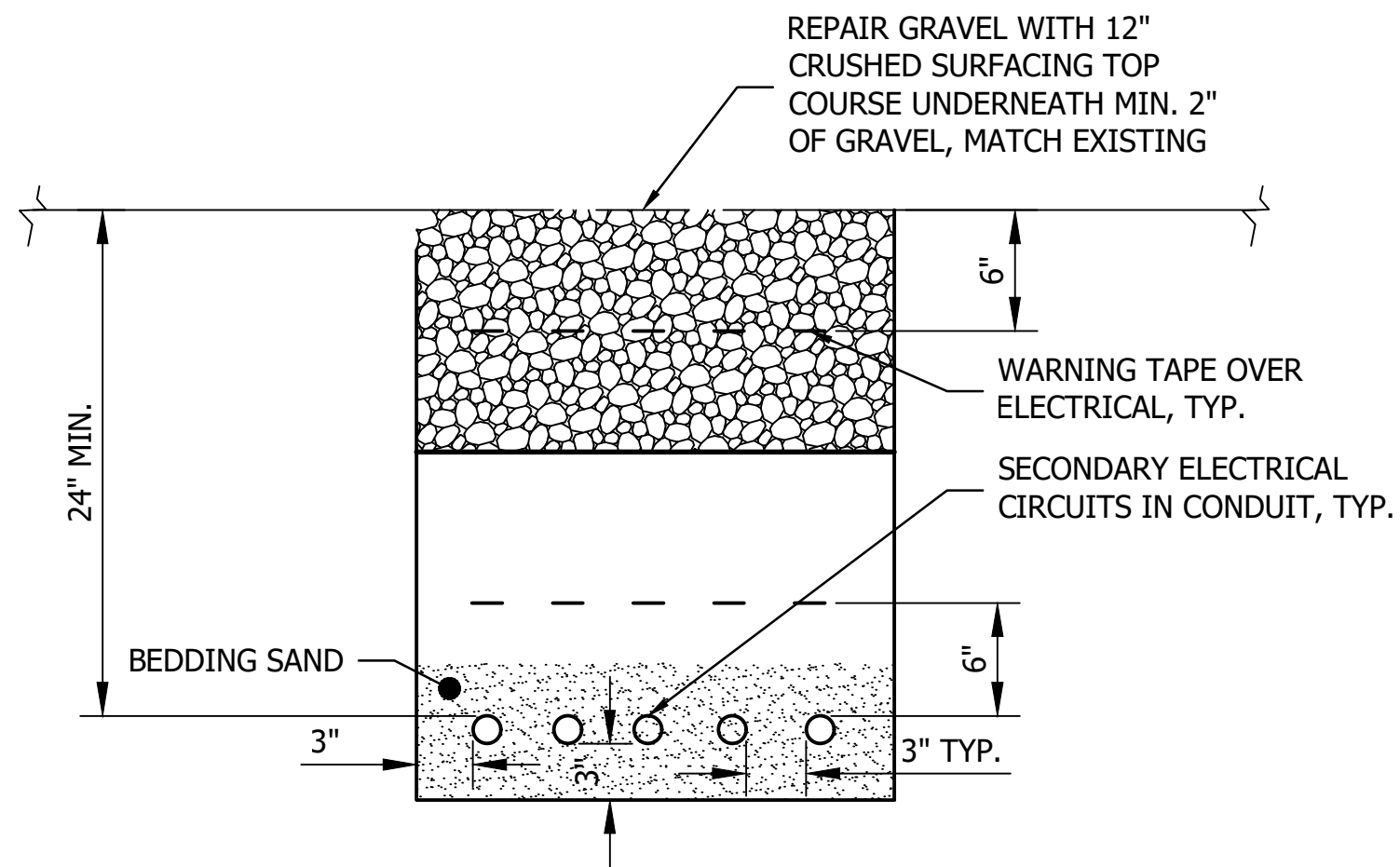
ISOLATION VALVE DETAIL

1. ISOLATION VALVES 2" AND LARGER ARE TO BE NRS RESILIENT SEAT GATE VALVES MEETING AWWA C509 OR C515.
2. BACKFILL AROUND VALVE BOXES SHALL BE COMPACTED USING A JUMPING JACK.
3. OLYMPIC FOUNDRY MODEL NUMBERS SHOWN. OWNER APPROVED EQUALS WILL BE ALLOWED.
4. ALL VALVES SHALL BE SUPPLIED WITH VALVE BOX AND LID. LID SHALL HAVE RECESSED HANDLE. VALVE BOX RISER EARS TO BE INSTALLED WITH THE EARS PARALLEL TO THE DIRECTION OF FLOW.

ISOLATION VALVE INSTALLATION DETAIL

NOT TO SCALE

(LS07 TYP)

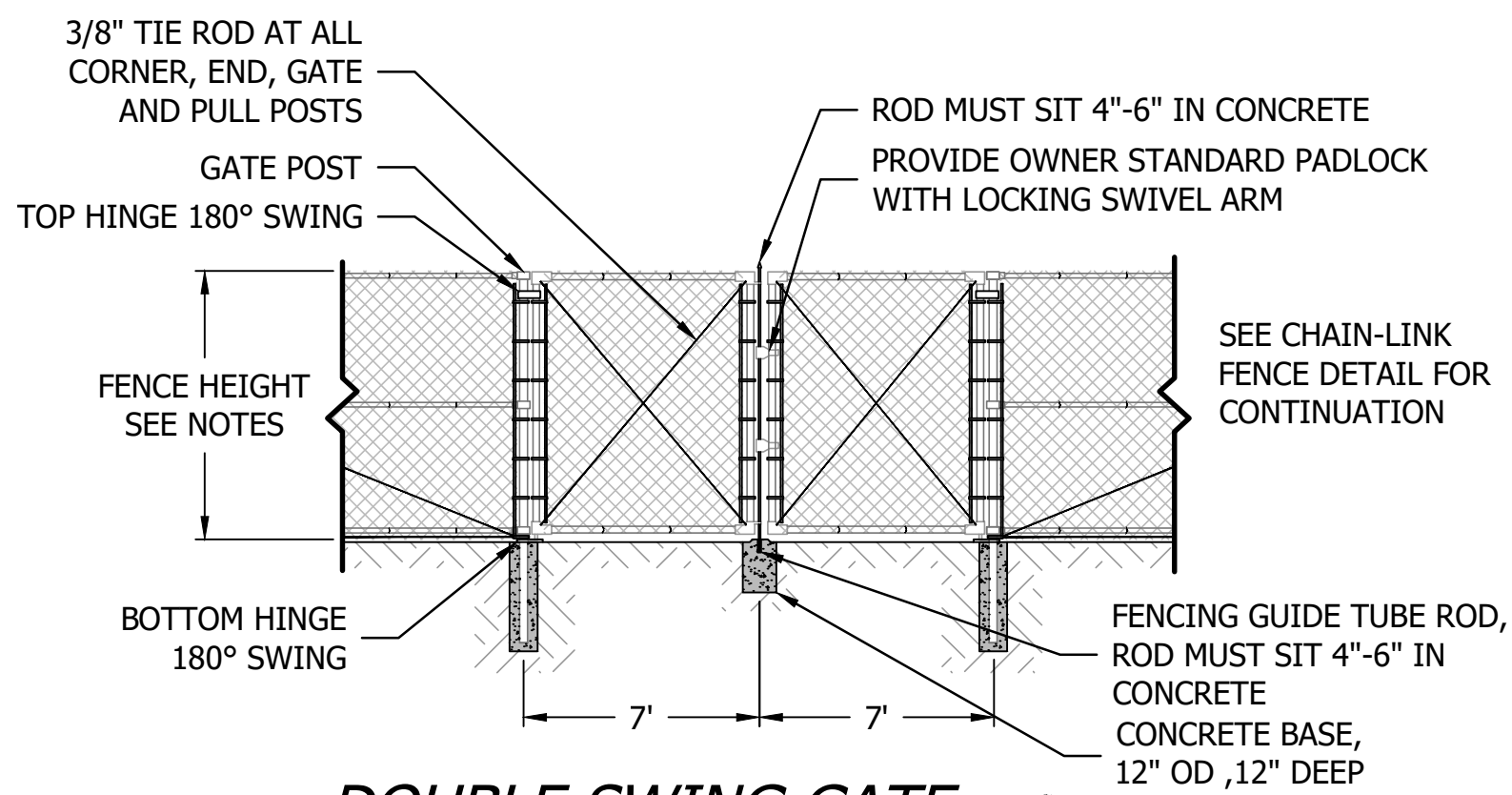


1. WHEN MULTIPLE UTILITIES ARE IN THE SAME TRENCH, THERE SHALL BE 3" SEPARATION BETWEEN LIKE UTILITIES AND 18" BETWEEN DIFFERENT UTILITIES.
2. NO UTILITIES SHALL BE PLACED OVER UNDERGROUND ELECTRICAL.
3. REPAIR GRAVEL

ELECTRICAL TRENCH DETAIL

NOT TO SCALE

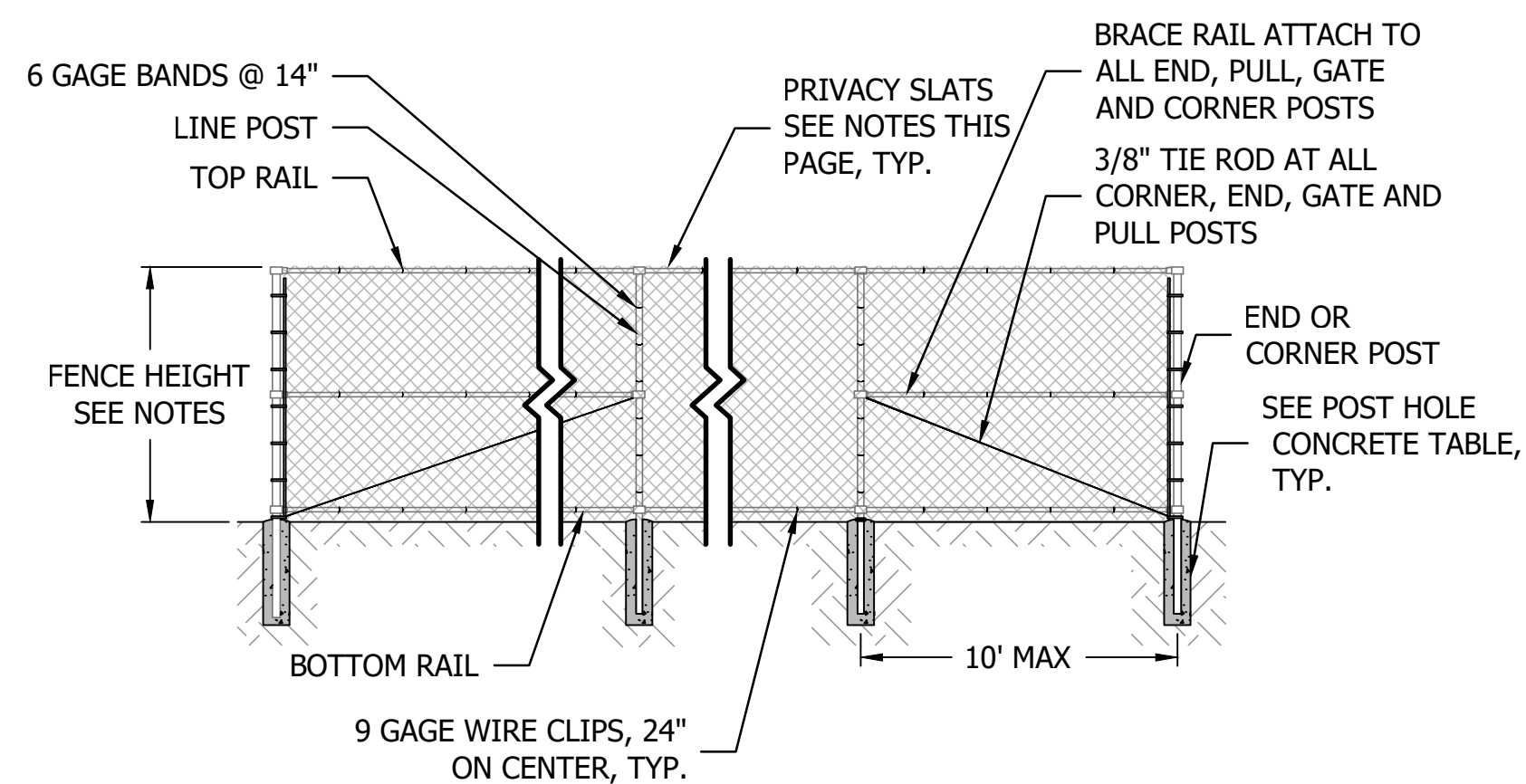
(LS08 TYP)



DOUBLE SWING GATE

NOT TO SCALE

(LS10 TYP)



CHAIN-LINK FENCE

NOT TO SCALE

(LS09 TYP)

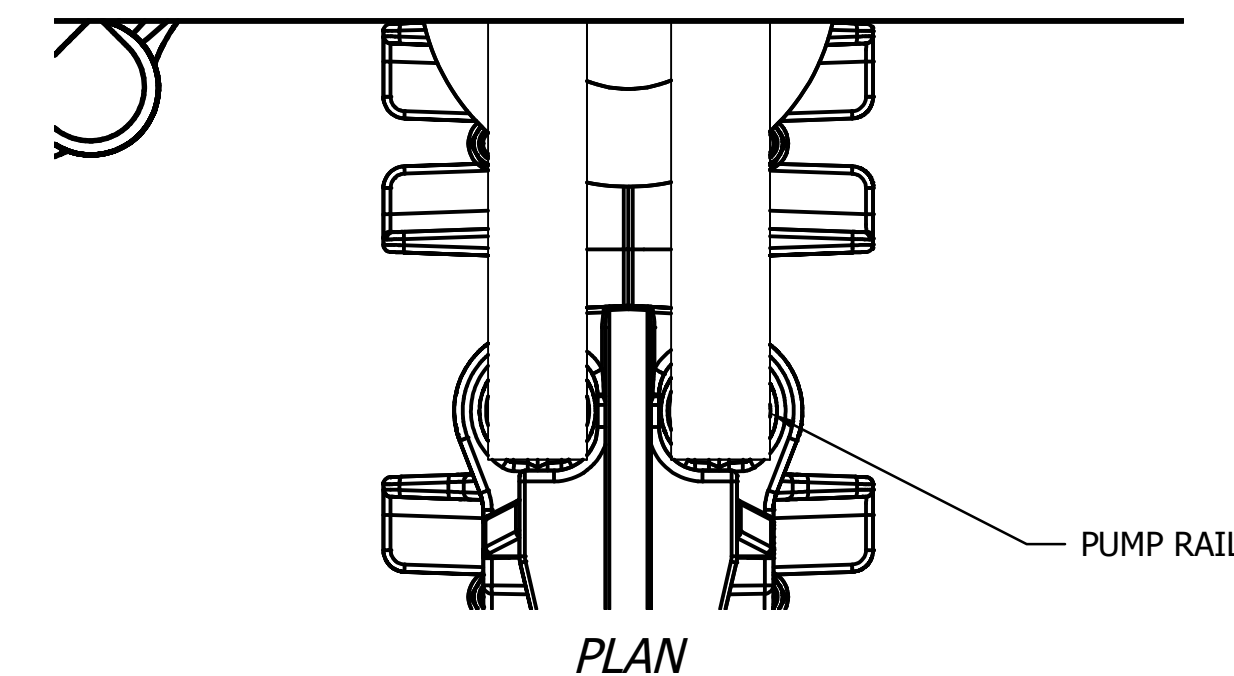
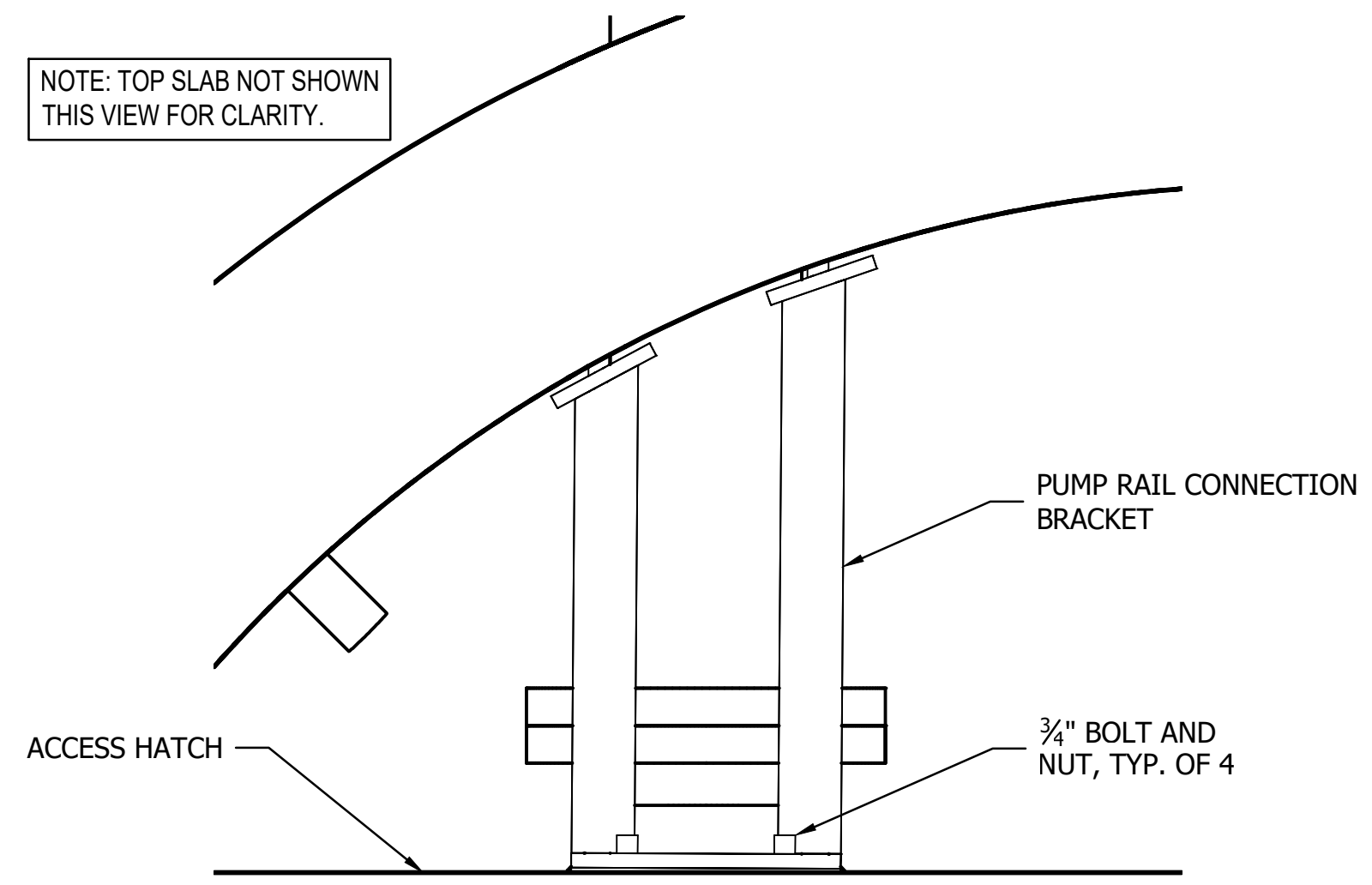
POST HOLE CONCRETE*		
	GATE AND END POST	LINE POSTS
MIN. DEPTH	60"	60"
MIN. DIAMETER	24"	24"
MIN. POST EMBEDMENT	54"	54"

*FOOTINGS SIZED TO RESTRAIN PRIVACY SLAT FENCE

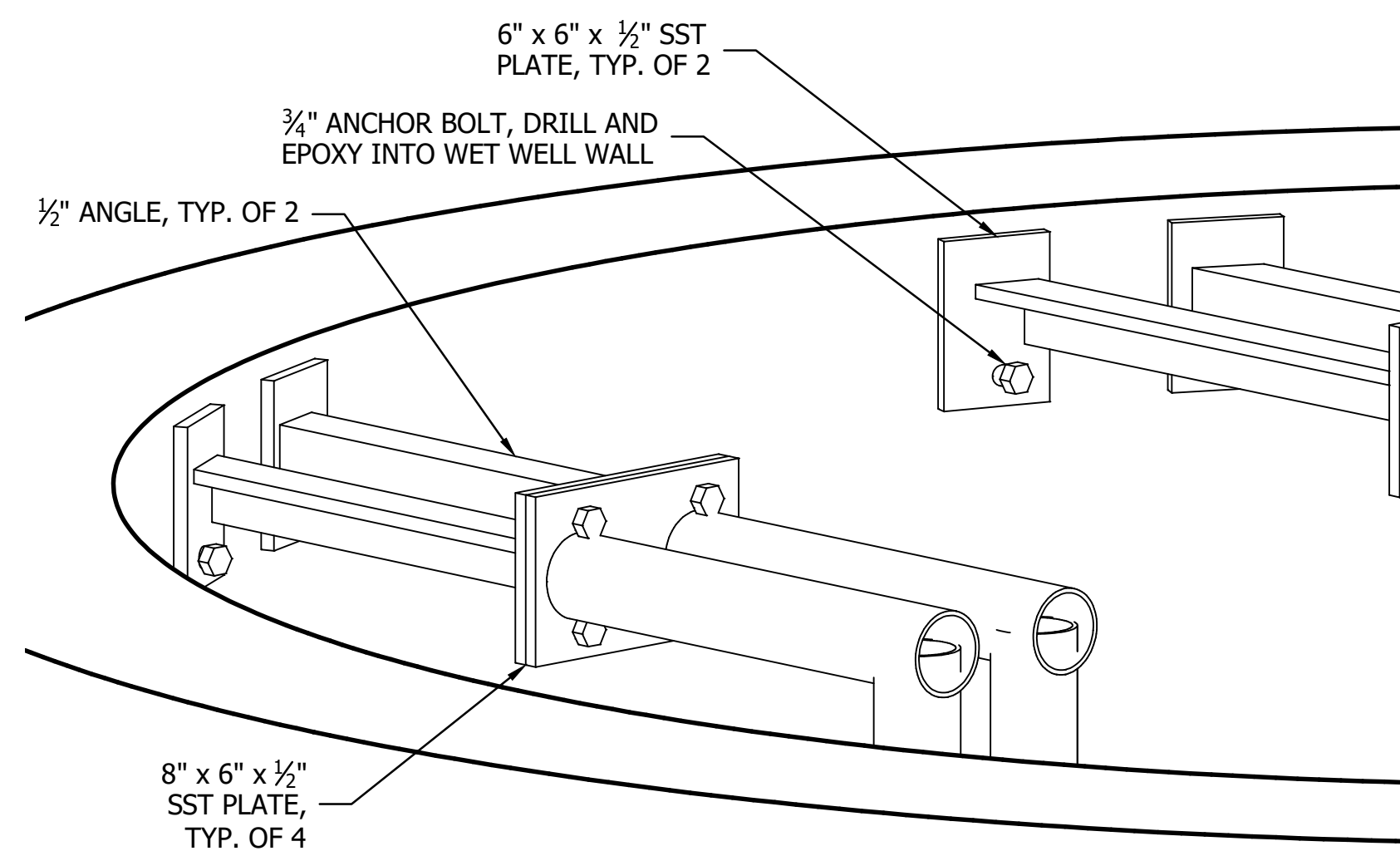
POST AND RAIL SCHEDULE		
END, PULL, GATE, CORNER POSTS	LINE POSTS	TOP, MID AND BOTTOM RAIL
4" OD	2.875" OD	1.66" OD

NOTES:

1. NOTE: MINIMUM DEPTHS BASED ON IBC GRAVEL(GW) OR SANDY GRAVEL(GP) SOIL TYPES PER IBC TABLE 1804.2.
2. CONCRETE FOR ALL FOOTINGS SHALL BE 4000 PSI CONCRETE.
3. ALL CHAIN LINK FENCE SHALL BE VINYL COATED.
4. PROVIDE VERTICAL PRIVACY SLATS WITH VERTICAL LOCKING FEATURE, NEUTRAL COLOR.



PLAN



OBLIQUE

PUMP RAIL CONNECTION DETAIL

NOT TO SCALE

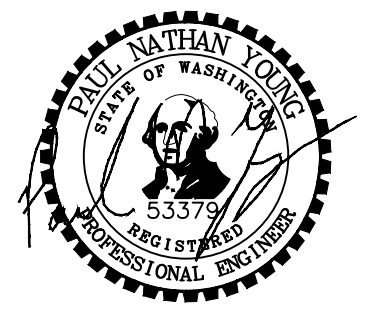
(LS11 TYP)



CAD NO. psp-p-lsdet

NO.	REVISIONS	INT.	APP.	DATE

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DESIGNED	PNY	1/2/2024
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WASHINGTON STATE PARKS AND RECREATION COMMISSION

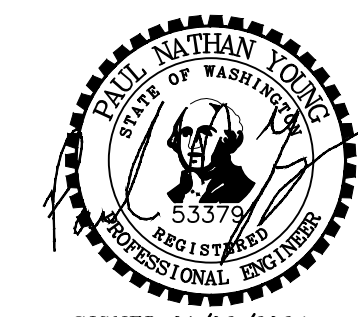


POTHOLES STATE PARK
SEWER LIFT STATION REPLACEMENT

LIFT STATION DETAILS 2

NO.	REVISIONS	INT.	APP.	DATE

ACTION	BY	DATE
DESIGNED	PNY	1/2/2024
DRAWN	JTR	1/2/2024
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CHECKED (HDQTS.)		



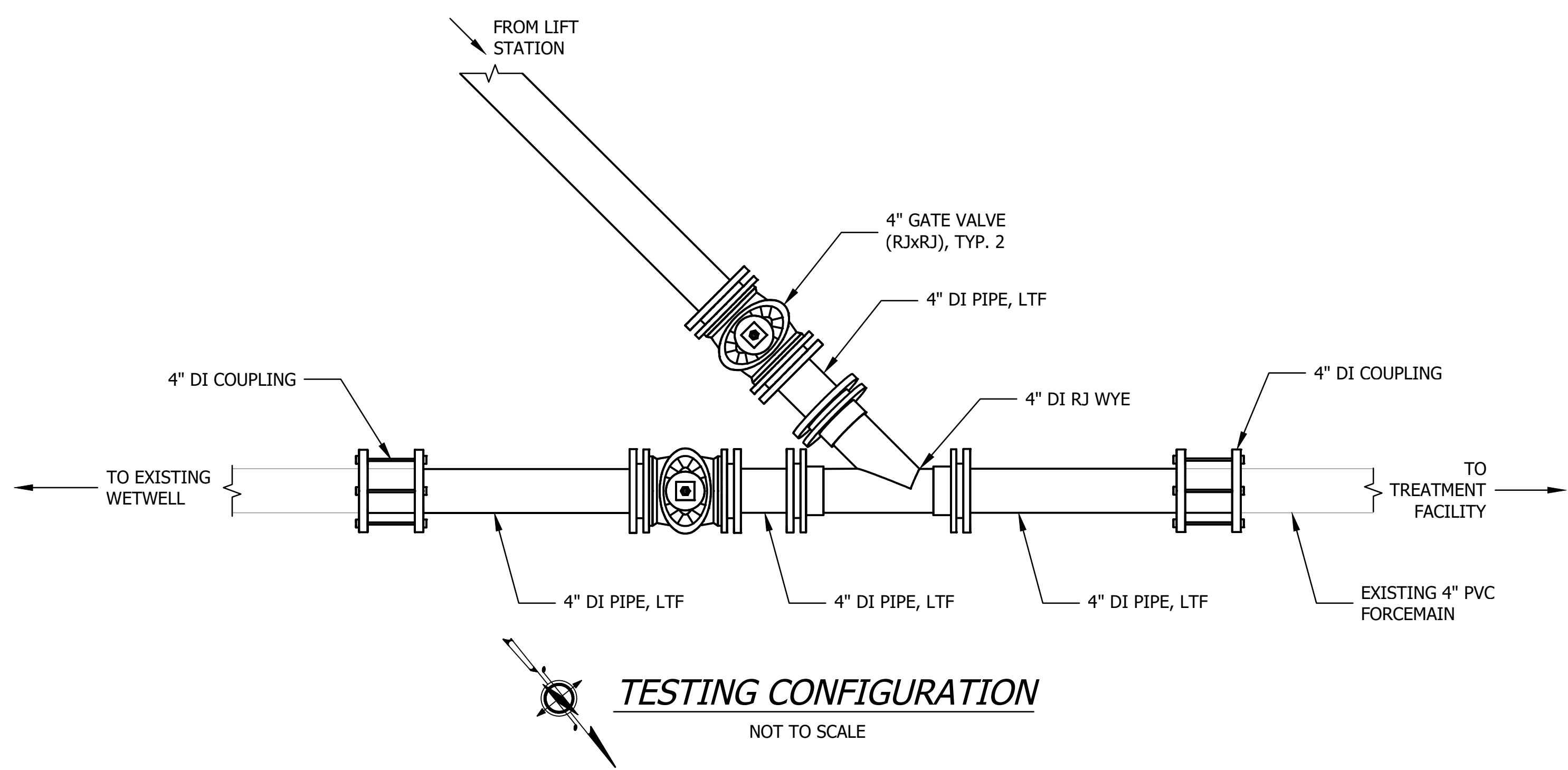
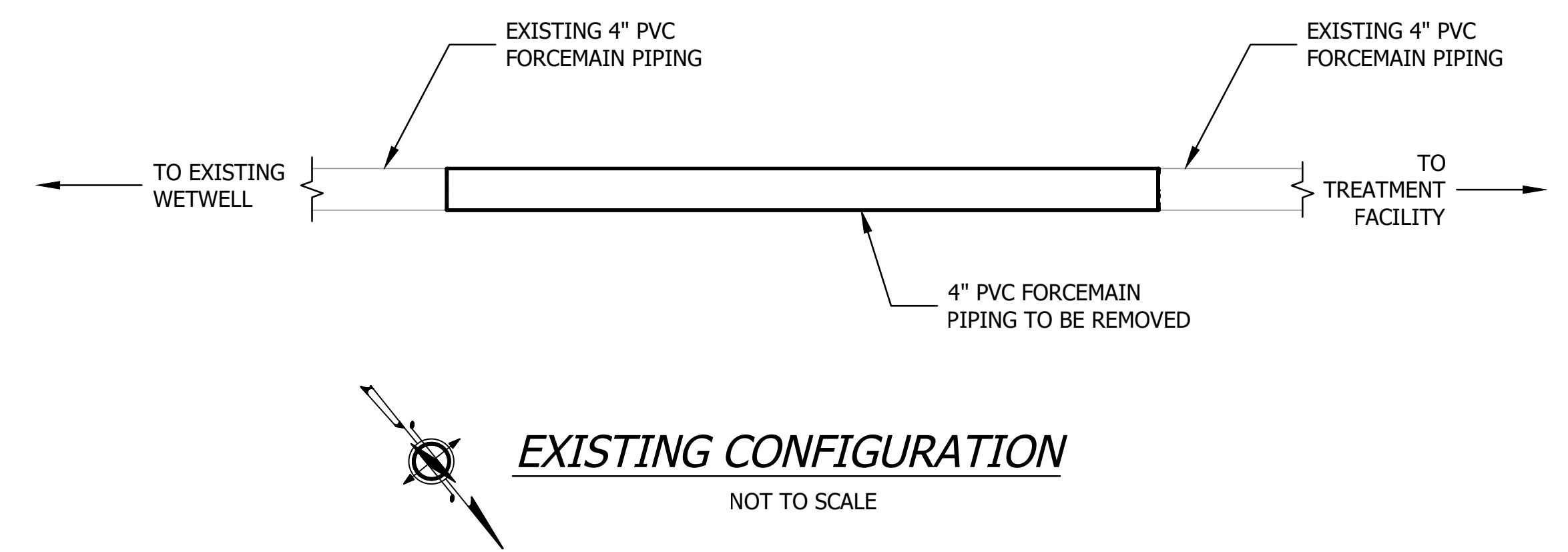
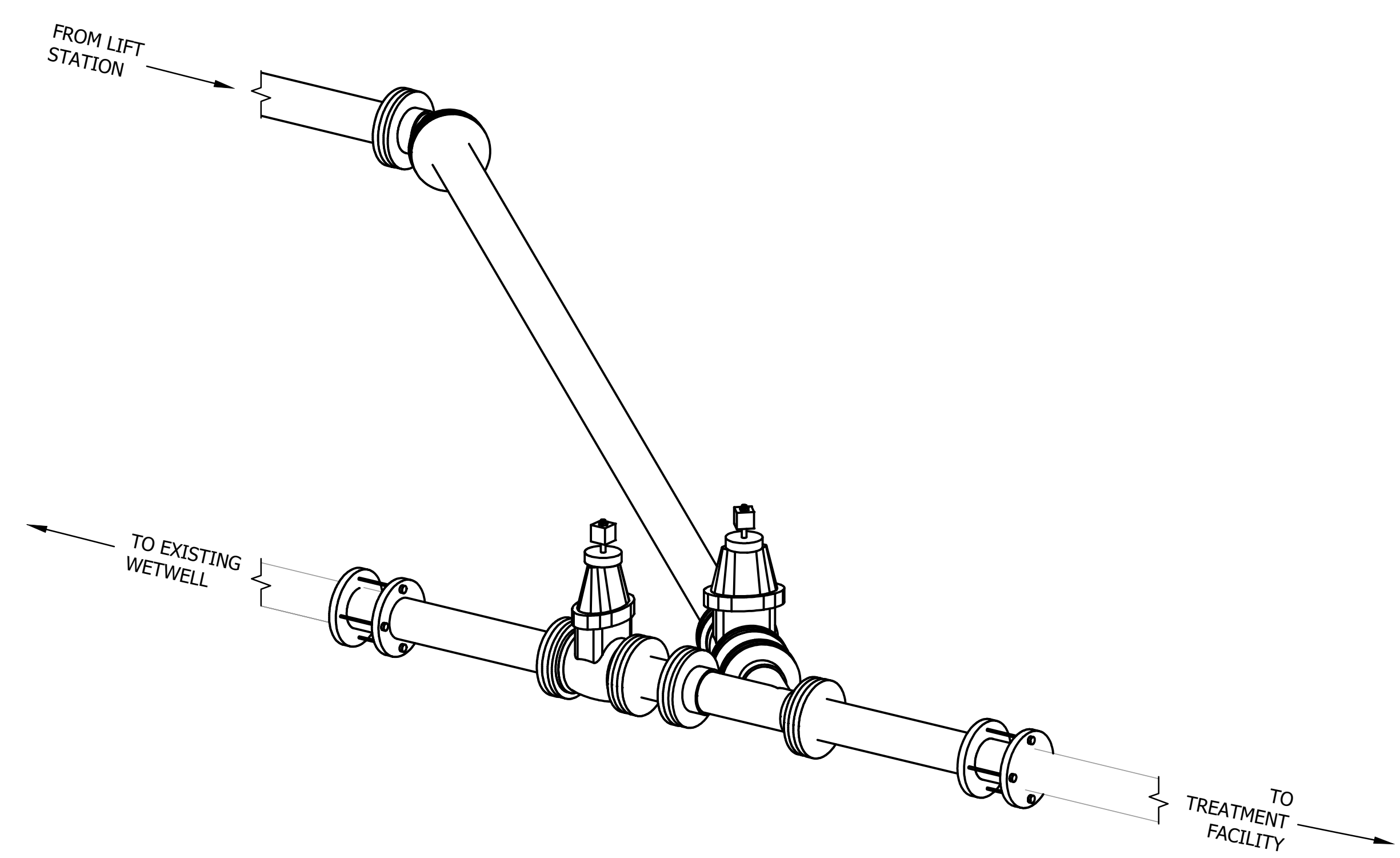
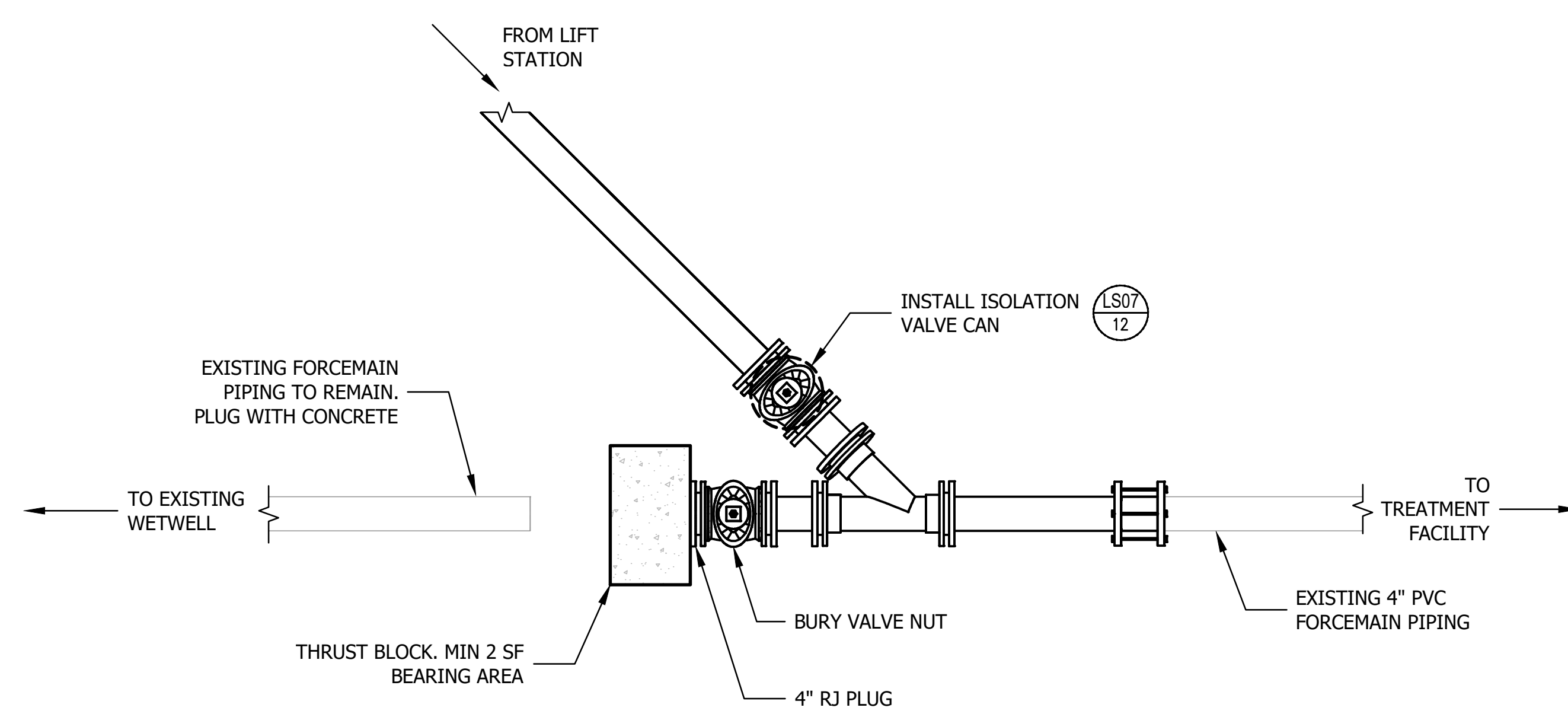
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WASHINGTON STATE PARKS AND RECREATION COMMISSION



POTHOLES STATE PARK
SEWER LIFT STATION REPLACEMENT

FORCEMAIN CONNECTION DETAIL



GENERAL NOTES

1. LOCATION OF EXISTING PIPE IS UNKNOWN. CONTRACTOR TO PROVIDE ANY ADDITIONAL FITTINGS OR THRUST BLOCKING NOT SHOWN IN THESE DETAILS THAT IS REQUIRED TO MAKE THE FINAL CONNECTION TO EXISTING PIPE. CONFIRM LAYOUT WITH OWNER PRIOR TO ORDERING FITTINGS.
2. MATERIALS OF EXISTING FORCEMAIN SHOWN ON THIS PLAN ARE FROM PRIOR RECORDS AND NOT GUARANTEED TO BE ACCURATE. POT HOLE AND CONFIRM PRIOR TO ORDERING FITTINGS.
3. CONNECTION TO EXISTING FORCEMAIN SHALL OCCUR SIMULTANEOUSLY WITH THE FILLING OF THE EXISTING WETWELL WITH CONCRETE. CLOSE VALVE AT SEWER LAGOON, APPROX. 4000 LF FROM EXISTING LIFT STATION. THE ENTIRE FORCEMAIN (APPROX. 3000 GALLONS) SHALL BE DRAINED BACK TO THE WETWELL. SEWAGE SHALL BE REMOVED AND PROPERLY DISPOSED OF BEFORE ANY WORK MAY BE PERFORMED.

ONE-LINE DIAGRAM SYMBOLS

	CIRCUIT BREAKER XXX/YY - CB SIZE & NO. OF POLES ET - ELECTRONIC TRIP TM - THERMAL MAGNETIC BREAKER MCP - MOTOR CIRCUIT PROTECTOR SE - SERVICE ENTRANCE GFI - GROUND FAULT INTERRUPTER
	FUSE
	FUSED DISCONNECT SWITCH
	PLUG-IN CONNECTION
	RUN TIME METER
	MOTOR OPERATION COUNTER
	SSRVS - SOLID STATE REDUCED VOLTAGE STARTER
	VARIABLE FREQUENCY DRIVE
	MOTOR STARTER
	MOTOR STARTER W/ OPERATOR DEVICES A - HAND-OFF-AUTO B - OPERATIONAL COUNTER C - RUN TIME METER D - RUN LIGHT E - FAIL LIGHT F - EMERGENCY STOP
	KIRK KEY INTERLOCK
	POWER TRANSFORMER
	CONTROL POWER TRANSFORMER
	TRANSFORMER
	CURRENT TRANSFORMER
	VOLTAGE TRANSFORMER
	CONTACTOR
	CAPACITOR
	ENGINE GENERATOR
	GENERATOR CONNECTION RECEPTACLE
	SOLID NEUTRAL
	TERMINAL BLOCK
	SURGE PROTECTION DEVICE
	SURGE PROTECTION DEVICE (ALTERNATIVE)

GROUNDING SYSTEM SYMBOLS

	GROUND
	METAL PIPE GROUND
	CONNECTION POINT, EXOTHERMIC WELD. CADWELD OR APPROVED EQUAL.
	GROUND ROD SIZED PER N.E.C. USE EXOTHERMIC WELD CONNECTION AT THE GROUND ROD.
	PIGTAIL, BARE COPPER, LENGTH AS REQUIRED, 8' MINIMUM.
	CONNECTION POINT, MECHANICAL, COMPRESSION TYPE.

ELECTRICAL SITE PLAN SYMBOLS

	UTILITY POLE AND GUY WIRE
	MANHOLE OR HANDHOLE
	BURIED POWER VAULT OR MANHOLE
	TELEPHONE VAULT OR PEDESTAL
	FIBER OPTICS VAULT OR PEDESTAL
	LUMINAIRE
	PAD-MOUNT TRANSFORMER

PANELBOARDS, SWITCHES, AND EQUIPMENT

	SERVICE ENTRANCE, SWITCHGEAR, MOTOR CONTROL CENTER, OR PANELBOARD
	SURFACE MOUNTED PANELBOARD
	FLUSHED MOUNTED PANELBOARD
	FIELD CONTROL STATION WITH NEMA REQUIREMENTS. N1 - NEMA 1 N3R - NEMA 3R N4 - NEMA 4 N4SS - NEMA 4 STAINLESS STEEL N4F - NEMA 4 FIBERGLASS N6 - NEMA 6 N12 - NEMA 12 GASKETED
	EQUIPMENT MOUNTING STAND
	HEATER, WATTAGE NOTED
	EQUIPMENT CONNECTION
	SINGLE PHASE MOTOR, HORSEPOWER AS NOTED
	THREE PHASE MOTOR, HORSEPOWER AS NOTED
	SINGLE PHASE MOTOR, HORSEPOWER AS NOTED
	ELECTRICAL PLUG
	DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	COMBINATION MOTOR STARTER AND DISCONNECT SWITCH

RECEPTACLES AND JUNCTION BOX SYMBOLS

	CEILING JUNCTION BOX
	WALL JUNCTION BOX
	FLOOR JUNCTION BOX
	DUPLEX WALL RECEPTACLE, 120V G = WEATHERPROOF G = GROUNDED IG = ISOLATED GROUND GFI = GROUND FAULT INTERRUPTER
	DOUBLE DUPLEX
	SINGLE RECEPTACLE, 120V
	SINGLE RECEPTACLE, 208V
	DUPLEX FLOOR RECEPTACLE, 120V
	SPECIAL PURPOSE WALL RECEPTACLE, RATING AS NOTED
	CLOCK
	TELEVISION
	TELEPHONE
	TELEPHONE/DATA WITH CABLE
	TELEPHONE/DATA WITHOUT CABLE

SWITCH OUTLETS

	STANDARD SWITCH, 120VAC, 20 AMP
	3-WAY SWITCH, 120VAC, 20 AMP
	3-POSITION SWITCH, 120VAC, 20 AMP, LABEL SWITCH POSITION
	HAND-OFF-MOTION OR PHOTO
	SINGLE-POLE
	DOUBLE-POLE
	THREE WAY
	FOUR WAY
	DIMMER
	PILOT-LIGHTED
	KEY-OPERATED
	LOW VOLTAGE
	MASTER
	PUSHBUTTON

LIGHTING FIXTURES/DEVICES

	FLUORESCENT FIXTURE
	WALL/CEILING MOUNTED FIXTURE
	EMERGENCY LIGHT WITH SELF CONTAINED BATTERY
	SURFACE OR PENDANT MOUNTED FIXTURE
	RECESSED FIXTURE
	MOTION DETECTOR
	PHOTO CONTROL CELL

FIRE SYSTEM SYMBOLS

	HEAT DETECTOR
	SMOKE DETECTOR
	FIRE ALARM DISPATCH STROBE ALARM
	FIRE ALARM AUDIBLE/VISUAL ALARM
	FIRE ALARM MANUAL PULL STATION

ADDITIONAL SYMBOLS

	SOUND SYSTEM SPEAKER
	SOUND SYSTEM VOLUME CONTROL
	DOORBELL

VALVE SYMBOLS

	PILOT VALVE SOLENOID
	VALVE
	CHECK VALVE
	CONTROL VALVE

PID FORMAT

	SUPERSCRIPT
	INSTRUMENT BUBBLE
X	X=MEASURED OR INITIATING VARIABLE
Y	Y=READOUT OR FUNCTION
Z	Z=MODIFIER
ABC	ABC=LOOP NUMBER

ISA STANDARDS FOR P&ID

1st LETTER (MEASURED OR INITIATING VARIABLE)	2nd LETTER (READOUT OR FUNCTION)	3rd LETTER (MODIFIER)
A	ANALYSIS	
B	BURNER (BATTERY)	(BACK) CLOSED
C	COMMUNICATION	
D	DENSITY	
E	VOLTAGE	
F	FLOW	
G	GAS	
H	HAND CURRENT (INTRUSION)	MANUAL INDICATE
J	POWER (EQUIPMENT)	
K	TIME LEVEL	CONTROL STATION LIGHT
L	MOTION	
M	USERS CHOICE	LOW MIDDLE
N	USERS CHOICE	
O	USERS CHOICE	OPEN
P	PRESSURE QUANTITY (EVENT)	(PUMP) (PRESSURE)
Q	RADIATION (REQ'D)	TOTALIZE RECORD SWITCH TRANSMITTER
R	SPEED (SMOKE) TEMPERATURE	RED BULB SOLENOID (TRANSMITTER)
U	MULTI VARIABLE	MULTI FUNCTION VALVE
V	VISCOSITY (pH)	
W	WEIGHT	
X	UNCLASSIFIED	RELAY (TRANSDUCER)
Y	USERS CHOICE	
Z	POSITION	

ABBREVIATIONS

SPDT - SINGLE POLE, DOUBLE THROW
SPST - SINGLE POLE, SINGLE THROW
DPST - DOUBLE POLE, SINGLE THROW
WP - WEATHER-PROOF
GFI - GROUND FAULT INTERRUPT
P - POWER
C - CONTROL
J - INSTRUMENTATION
PC - POWER & CONTROL
CJ - CONTROL & INSTRUMENTATION
CKT - CIRCUIT
C.O. - CONDUIT ONLY
N.L. - NIGHT LIGHT
AL - ALUMINUM
CU - COPPER
SST - STAINLESS STEEL
HOA - HAND-OFF-AUTO SWITCH
RTM - RUN TIME METER
OC - OPERATION COUNTER
MRL - MOTOR RUN INDICATION LIGHT
SEIL - SEAL FAIL INDICATION LIGHT
SFTR - SEAL FAIL TRIP RESET
OTIL - OVER TEMPERATURE INDICATION LIGHT
MOIL - MOTOR OVERLOAD INDICATION LIGHT

INDICATE TYPE BY LETTER

	A - AMMETER	VAR - VARMETER
	AH - AMPERE-HOUR	VARH - VARHOUR METER
	PF - POWER FACTOR	W - WATTMETER
	V - VOLTMETER	WH - WATTHOUR METER
	VA - VOLT AMMETER	

RACEWAY LEGEND

	PROPOSED POWER
	PROPOSED TELEPHONE
	PROPOSED INSTRUMENTATION
	PROPOSED FIBER OPTICS
	PROPOSED GROUNDING

HOME RUN TO PANELBOARD OR AS INDICATED

	CONDUIT RUN, BROKEN AND CONTINUED SAME SHEET OR AS NOTED
	FLEXIBLE CONDUIT
	CONDUIT RUN. HATCH MARKS INDICATE NUMBER OF CONDUCTORS
	CALLOUT INDICATING CONDUIT SIZE, NUMBER AND SIZE OF WIRE.
	CALLOUT INDICATING CONDUIT PER SCHEDULE
	CONDUIT BENT UP OR TOWARD
	CONDUIT BENT DOWN OR AWAY
	CAPPED CONDUIT

ONE-LINE DIAGRAM INFORMATION

	EXISTING EQUIPMENT AND CONDUIT
	PROPOSED EQUIPMENT AND CONDUIT
	CONDUIT, WIRING OR EQUIPMENT TO BE REMOVED

LADDER LOGIC SYMBOL LEGEND

	INDICATOR LIGHT A - AMBER G - GREEN B - BLUE R - RED C - CLEAR W - WHITE		RELAY XXY 123 RELAY TR - TIMED RELAY CR - CONTROL RELAY
	LIMIT SWITCH, NORMALLY OPEN		FLOAT SWITCH, NORMALLY OPEN
	LIMIT SWITCH, NORMALLY CLOSED		FLOAT SWITCH, NORMALLY CLOSED
	TIME DELAY CONTACT, NORMALLY OPEN, TIME TO CLOSE		PUSHBUTTON, NORMALLY CLOSED
	TIME DELAY CONTACT, NORMALLY CLOSED, TIME TO OPEN		PUSHBUTTON, NORMALLY OPEN
	TIME DELAY CONTACT, NORMALLY OPEN, TIME TO OPEN		THERMOSTAT THERMO SWITCH, NORMALLY OPEN
	TIME DELAY CONTACT, NORMALLY CLOSED, TIME TO CLOSE		THERMOSTAT THERMO SWITCH, NORMALLY CLOSED
	RELAY CONTACT, INSTANTANEOUS CHANGE		FLOWSWITCH FLOWSWITCH, NORMALLY OPEN
	PRESSURE SWITCH, NORMALLY OPEN		FLOWSWITCH FLOWSWITCH, NORMALLY CLOSED
	PRESSURE SWITCH, NORMALLY CLOSED		2 POLE SWITCH
	3 POLE SWITCH		

P&ID BUBBLE IDENTIFICATION CHART

EXISTING	FUNCTION
	INSTRUMENT IDENTIFICATION BUBBLE
	FIELD MOUNTED DEVICE OR INSTRUMENT
	FRONT PANEL MOUNTED INSTRUMENT OR DEVICE (LOCAL PANEL)
	BACK PANEL MOUNTED INSTRUMENT OR DEVICE (LOCAL PANEL)
	FRONT PANEL MOUNTED INSTRUMENT OR DEVICE (LAB ROOM PANEL)
	OPERATOR INTERFACE DISPLAY (LOCAL PANEL)
	OPERATOR INTERFACE DISPLAY (LAB ROOM PANEL)

GENERAL NOTES

- THIS IS A STANDARD LEGEND. NOT ALL OF THE INFORMATION SHOWN ON THIS PAGE WILL APPEAR IN THIS SET OF PLANS.
- THESE DRAWINGS ARE DIAGRAMMATIC ONLY; EXACT LOCATIONS OF ELECTRICAL EQUIPMENT SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR. THE INSTALLATION OF ALL EQUIPMENT SHOWN ON THESE DRAWINGS OR DESCRIBED IN THE SPECIFICATIONS SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN THE LATEST EDITIONS OF ALL APPLICABLE CODES AND UTILITY COMPANY STANDARDS. CONTACT THE UTILITY COMPANY REPRESENTATIVES AND VERIFY THEIR REQUIREMENTS.
- NOTIFY THE ENGINEER IMMEDIATELY IF CONFLICTS IN EQUIPMENT LOCATIONS ARE DISCOVERED OR IF PROBLEMS ARISE DUE TO FIELD CONDITIONS, LACK OF INFORMATION OR ANY OTHER REASON. NO PAYMENT WILL BE MADE FOR CHANGES WHICH HAVE NOT BEEN REVIEWED BY THE ENGINEER.



	BY	DATE
	CCA	1/2/2024
	CLC	1/2/2024
CHECKED (FIELD)		
CHECKED (HDQTS.)		

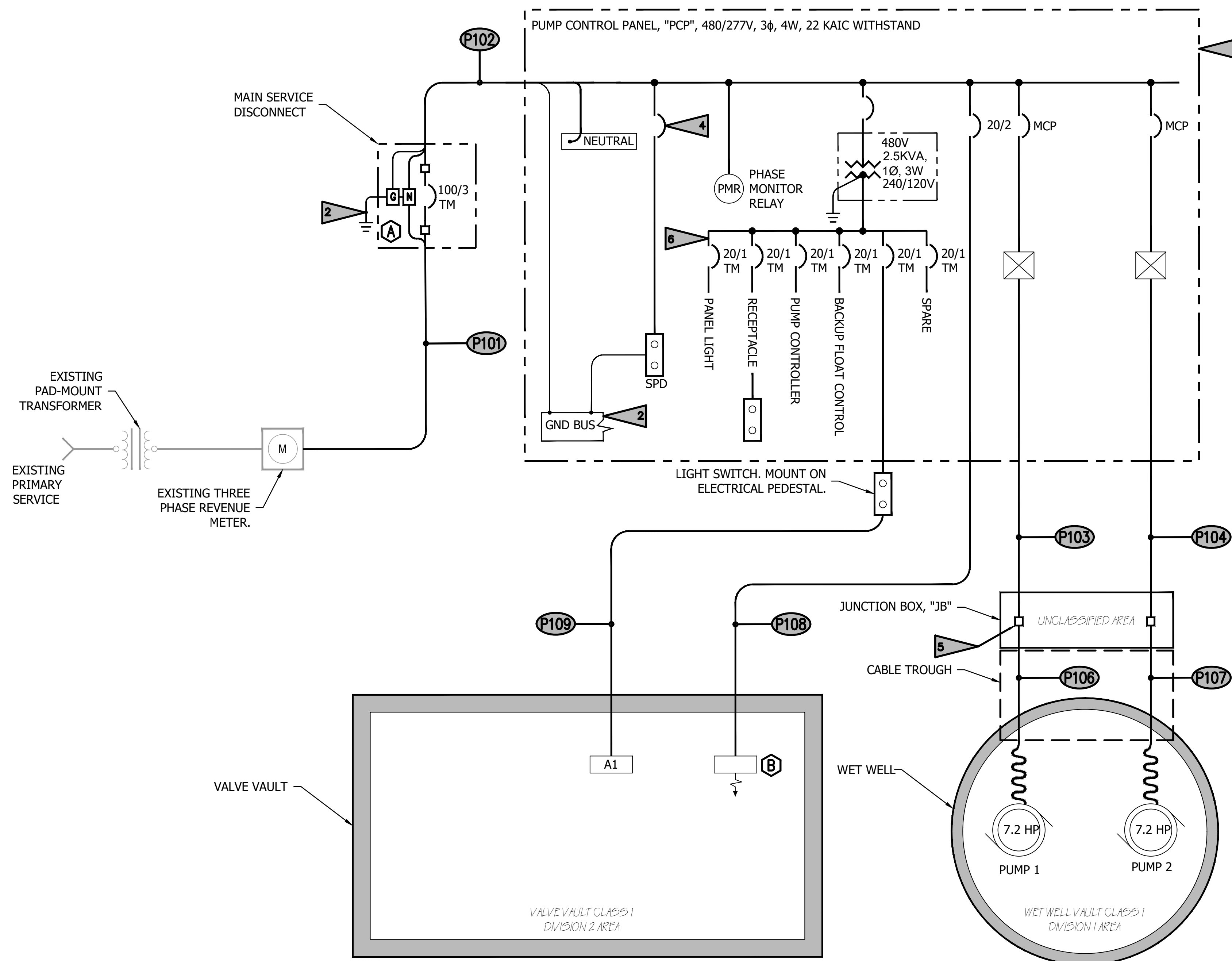
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WASHINGTON STATE PARKS

RECREATION COMMISSION

POTHOLES
LIFT STATION REPLACEMENT

ELECTRICAL LEGEND

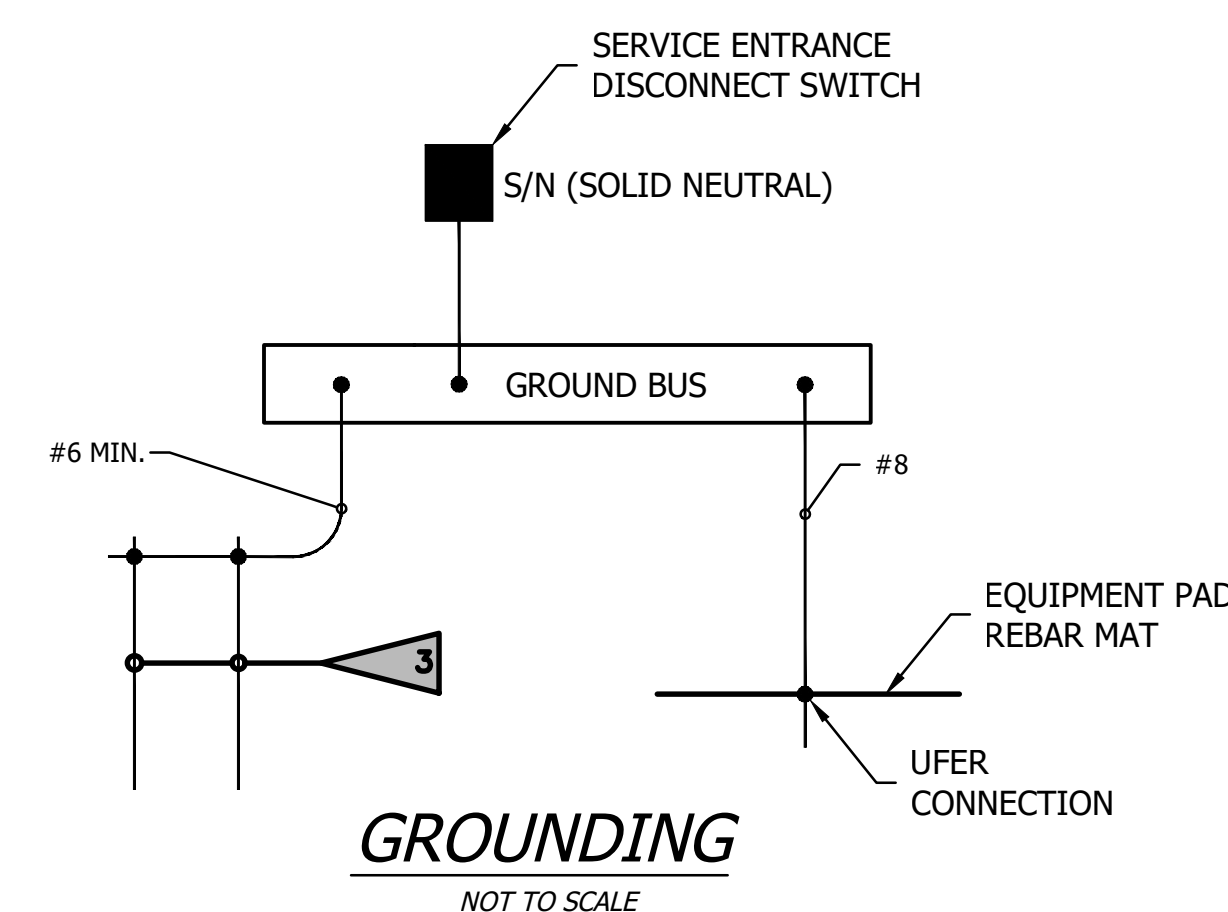


ONE-LINE DIAGRAM
NOT TO SCALE


- ELECTRICAL NOTES**
1. PUMP CONTROL PANEL TO BE SUPPLIED BY PUMP SUPPLIER. SEE SHEET NO. 17 FOR TYPICAL PUMP CONTROL LOGIC DIAGRAMS. ONE-LINE AND CONTROL DIAGRAMS SHOW PANEL OPTIONS THAT SHALL BE PROVIDED WITH PANEL.
 2. SEE GROUNDING DETAIL, THIS SHEET.
 3. GROUND ROD PER N.E.C. (TYPICAL). SEE SHEET NO. 19 FOR DETAIL.
 4. FUSING OR CIRCUIT BREAKER PER SPD MANUFACTURER'S RECOMMENDATION. USE SHORTEST CONDUCTORS POSSIBLE TO SPD.
 5. TERMINAL BLOCKS (TYPICAL). SEE SHEET NO. 19 FOR DETAIL.
 6. PROVIDE LED MOTION SENSOR PANEL LIGHT. MOUNT TO INSIDE CEILING.
 7. SEE ELECTRICAL SITE PLAN FOR OTHER CONTROL DEVICES TO BE INSTALLED IN WET WELL.
 8. SEE SHEET NO. 20 FOR CONDUIT AND CONDUCTOR SCHEDULE.
 9. SEE SHEET NO. 20 FOR ELECTRICAL EQUIPMENT SCHEDULE.
 10. SEE SHEET NO. 20 FOR LIGHTING FIXTURE SCHEDULE.

PUMP STATION LOAD CALCULATIONS

PUMP 1 (7.2 HP)	11.0A X 1.25 =	13.75 AMPS
PUMP 2 (7.2 HP)	11.0A X 1.00 =	11.0 AMPS
HEATER (1800 W)	6.5A X 1.00 =	6.50 AMPS
MISCELLANEOUS (2.25 KVA)	5.2A X 1.00 =	5.2 AMPS
TOTAL		36.45 AMPS



	BY	DATE
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STATE
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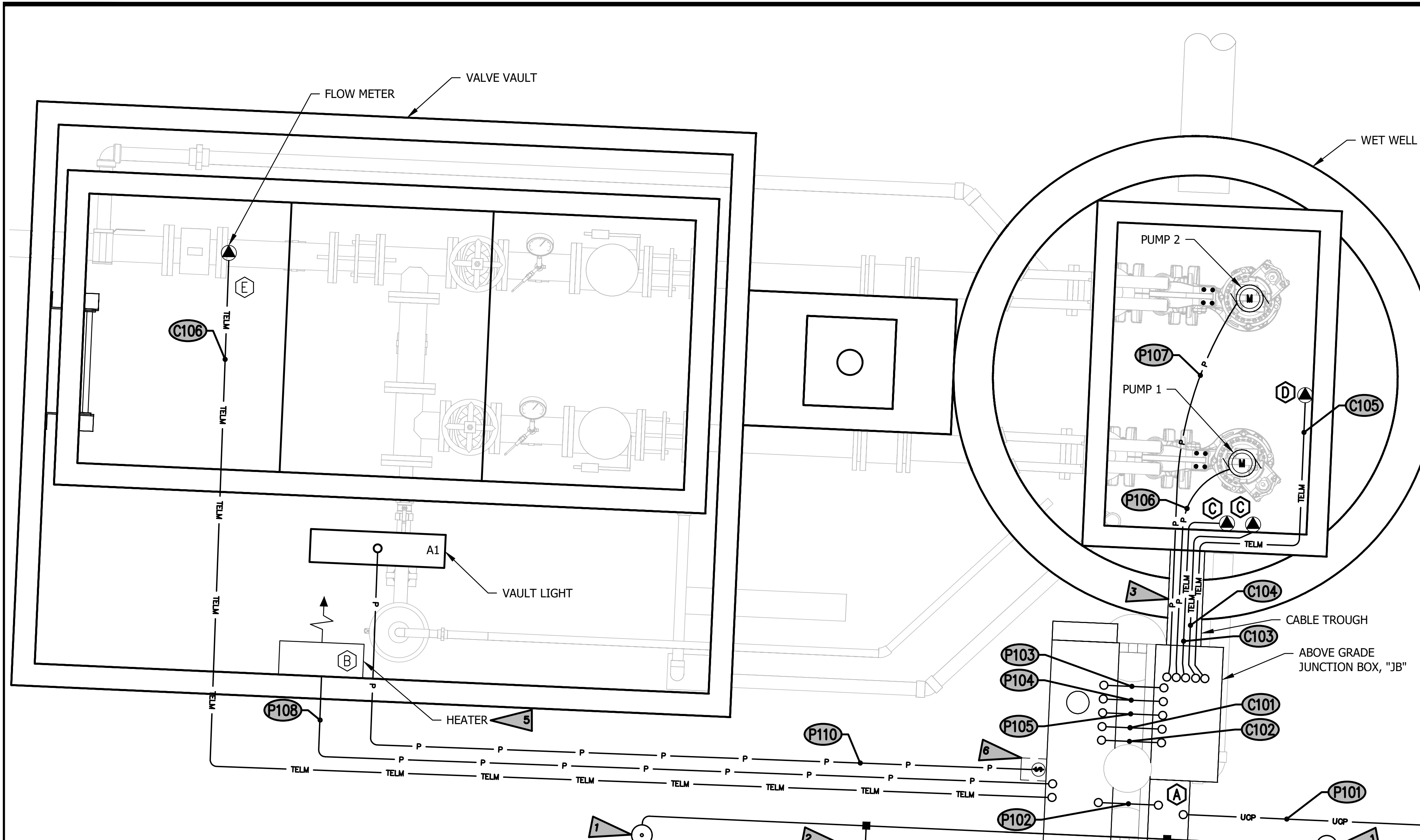
RECREATION
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POTHOLES

LIFT STATION
REPLACEMENT

ONE-LINE DIAGRAM

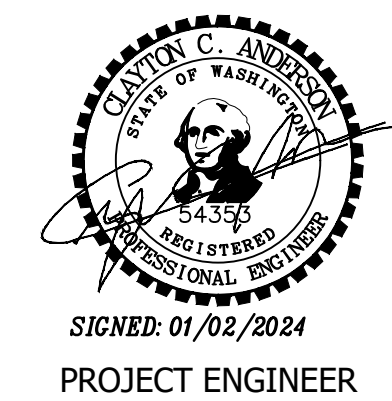




- ELECTRICAL NOTES**
1. GROUND ROD PER N.E.C. (TYPICAL), TYP OF 2. USE EXOTHERMIC WELD CONNECTION AT THE GROUND ROD. SEE SHEET NO. 19 FOR ADDITIONAL DETAIL. LOCATE GROUND RODS INSIDE CONCRETE SLAB AND 12" MINIMUM FROM EDGE OF CONCRETE SLAB.
 2. CONNECTION TO REINFORCEMENT GRID. SEE SHEET NO. 19 FOR ADDITIONAL DETAIL.
 3. CONTRACTOR SHALL PROVIDE MINIMUM 4" OF SEPARATION BETWEEN POWER AND CONTROL CABLES.
 4. EXISTING SERVICE DISCONNECT TO BE REMOVED. ROUTE NEW CONDUIT FROM EXISTING UTILITY METER TO NEW SERVICE DISCONNECT LOCATED ON ELECTRICAL PEDESTAL.
 5. MOUNT HEATER ON WALL AND AS CLOSE TO CEILING AS ALLOWED PER MANUFACTURER'S INSTALLATION REQUIREMENTS.
 6. LIGHT SWITCH SHALL BE MOUNTED ON ELECTRICAL PEDESTAL.
 - XX 7. SEE SHEET NO. 20 FOR CONDUIT AND CONDUCTOR SCHEDULES.
 - X 8. SEE SHEET NO. 20 FOR ELECTRICAL EQUIPMENT SCHEDULE.
 - A# 9. SEE SHEET NO. 20 FOR LIGHTING FIXTURE SCHEDULE.

NO.	REVISIONS	INT.	APP.	DATE

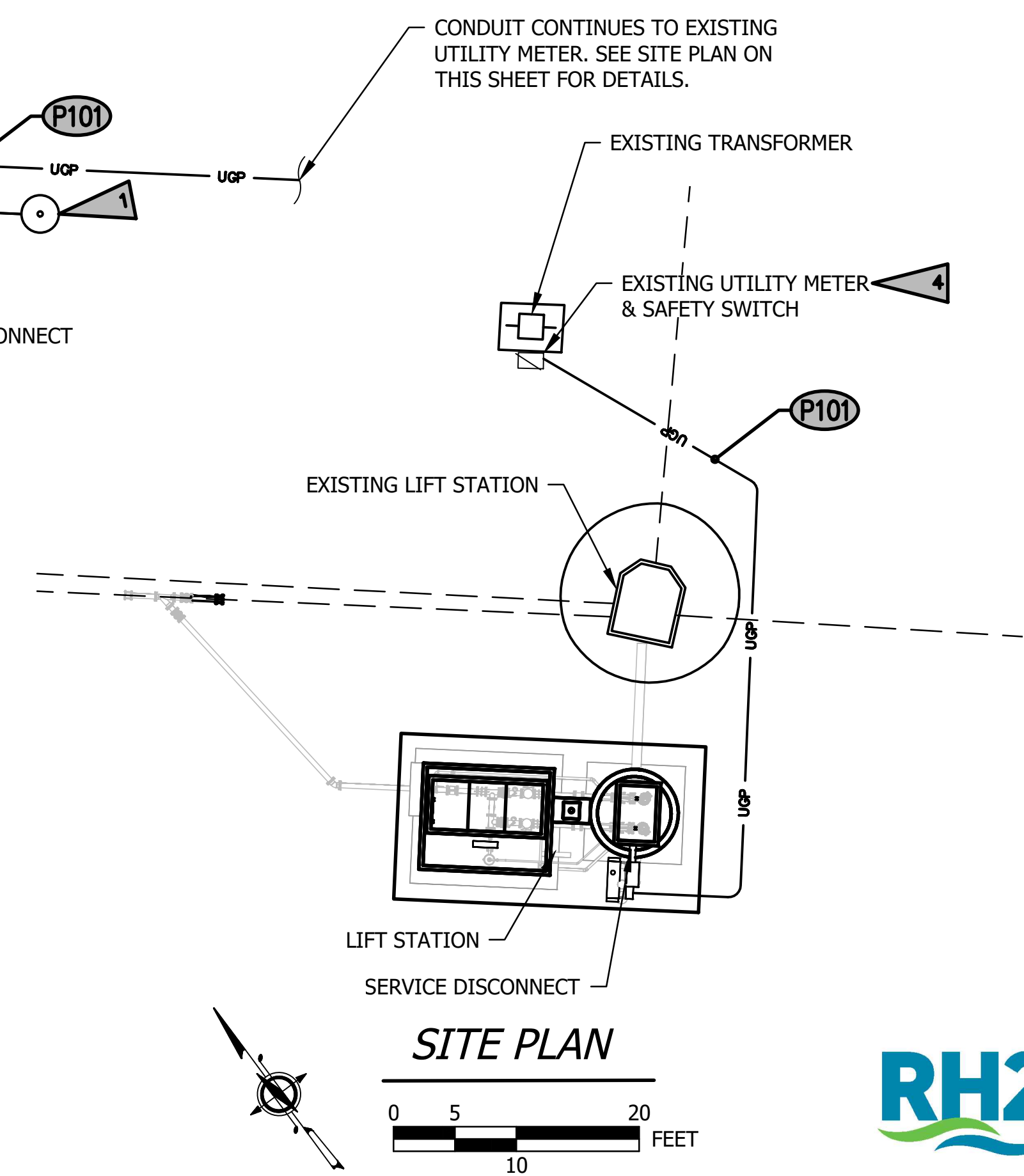
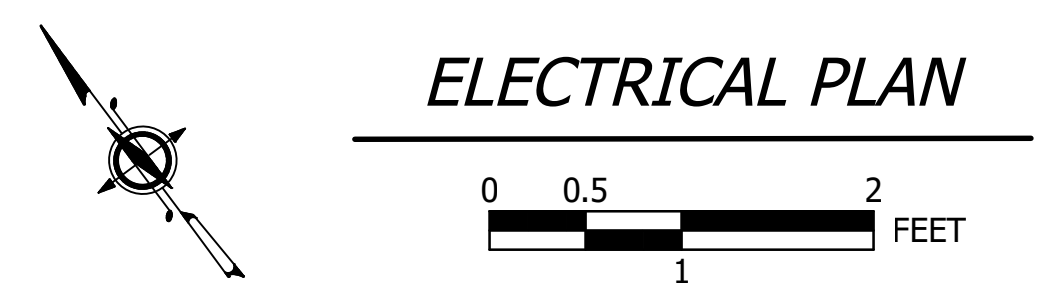
CHECKED (FIELD)	BY	DATE
	CCA	1/2/2024
CHECKED (HDQTS.)	CLC	1/2/2024



WASHINGTON STATE PARKS RECREATION COMMISSION

POTHOLES LIFT STATION REPLACEMENT

ELECTRICAL SITE PLAN



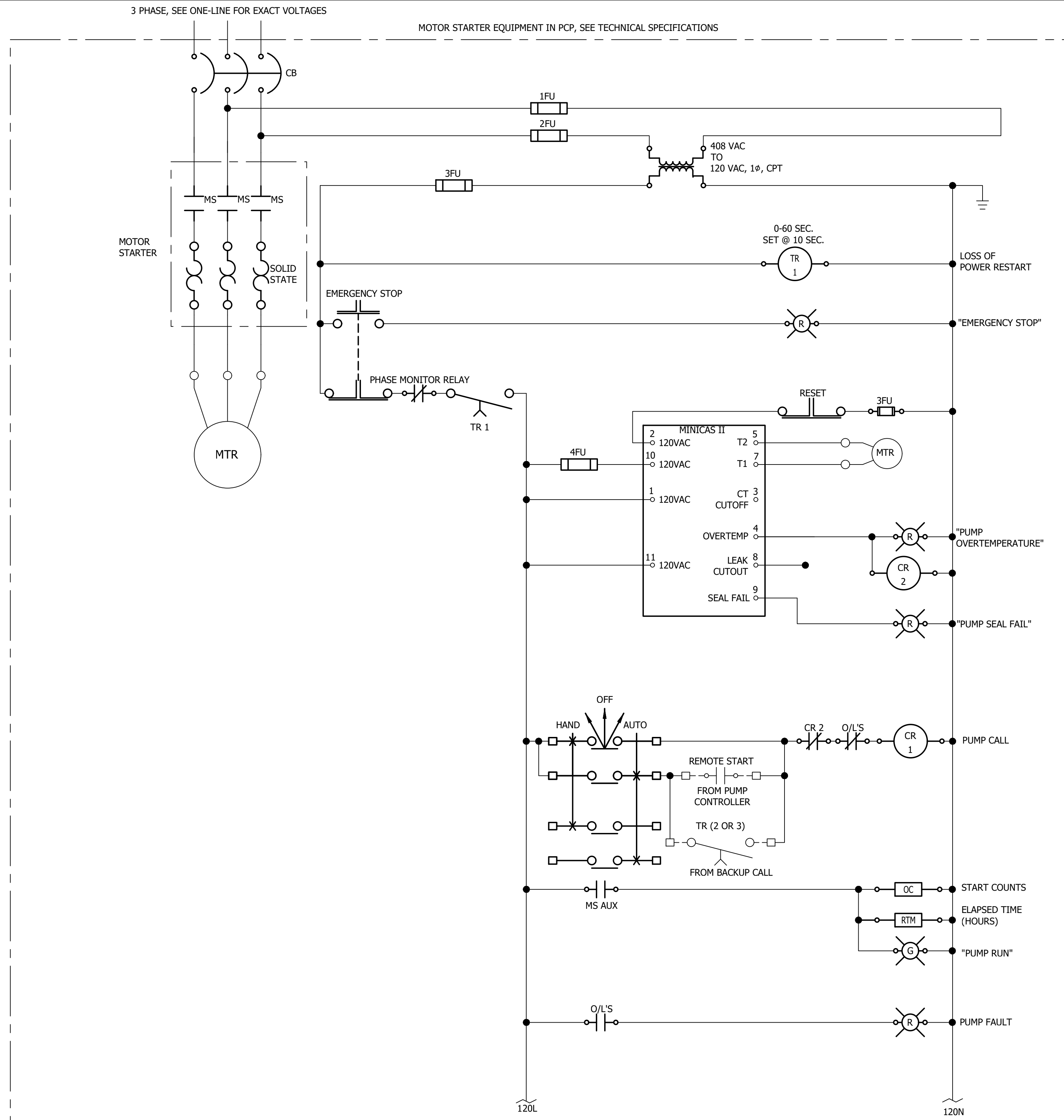


DIAGRAM 1: PUMP 1, PUMP 2
NO SCALE

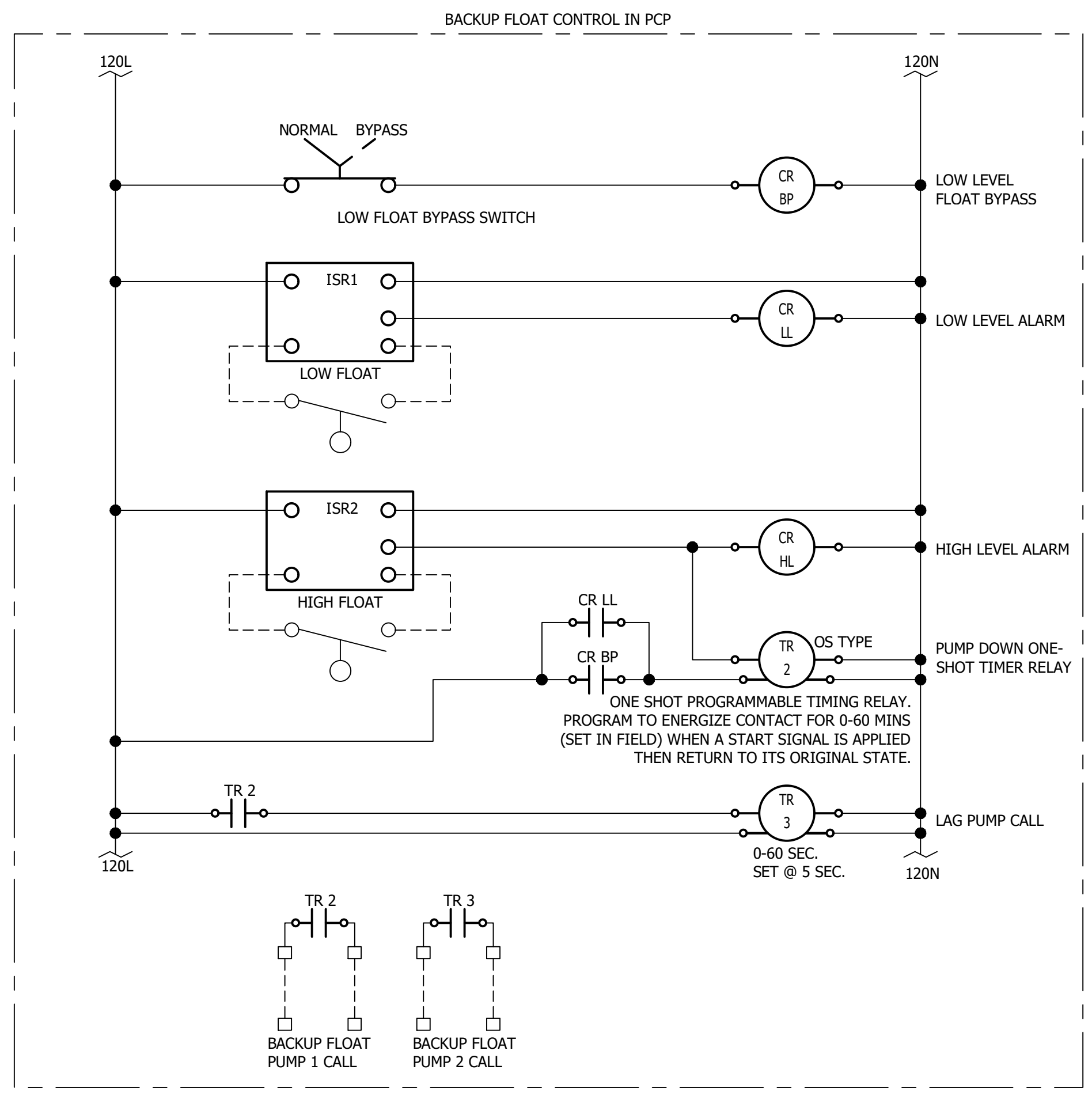


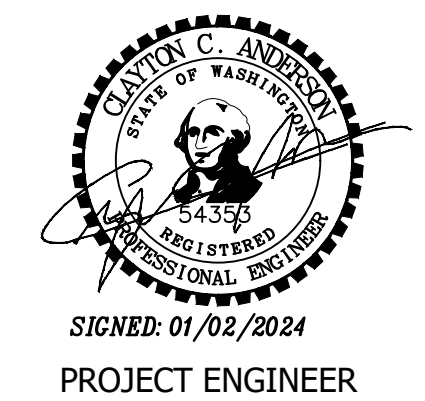
DIAGRAM 2: BACKUP FLOAT CONTROL LOGIC
NO SCALE

ELECTRICAL NOTES	
1.	CONTROL LOGIC DIAGRAMS 1 AND 2 TYPICAL STANDARD BACKUP FLOAT AND PUMP STARTER DIAGRAMS. FINAL LOGIC SHALL BE PER PANEL MANUFACTURER STANDARDS INCLUDING ALL OPTIONS SHOWN (LIGHTS, SWITCHES, RESETS, LOCKOUTS, ETC.).
2.	CONTROL PANEL SHALL HAVE A COMMON ALARM CIRCUIT THAT ACTIVATES STROBE LIGHT ON PANEL EXTERIOR. ALL PUMP FAIL, CONTROLLER FAIL, AND BACKUP FLOAT CALLS SHALL ACTIVATE STROBE.

CAD NO. psp-d-e04

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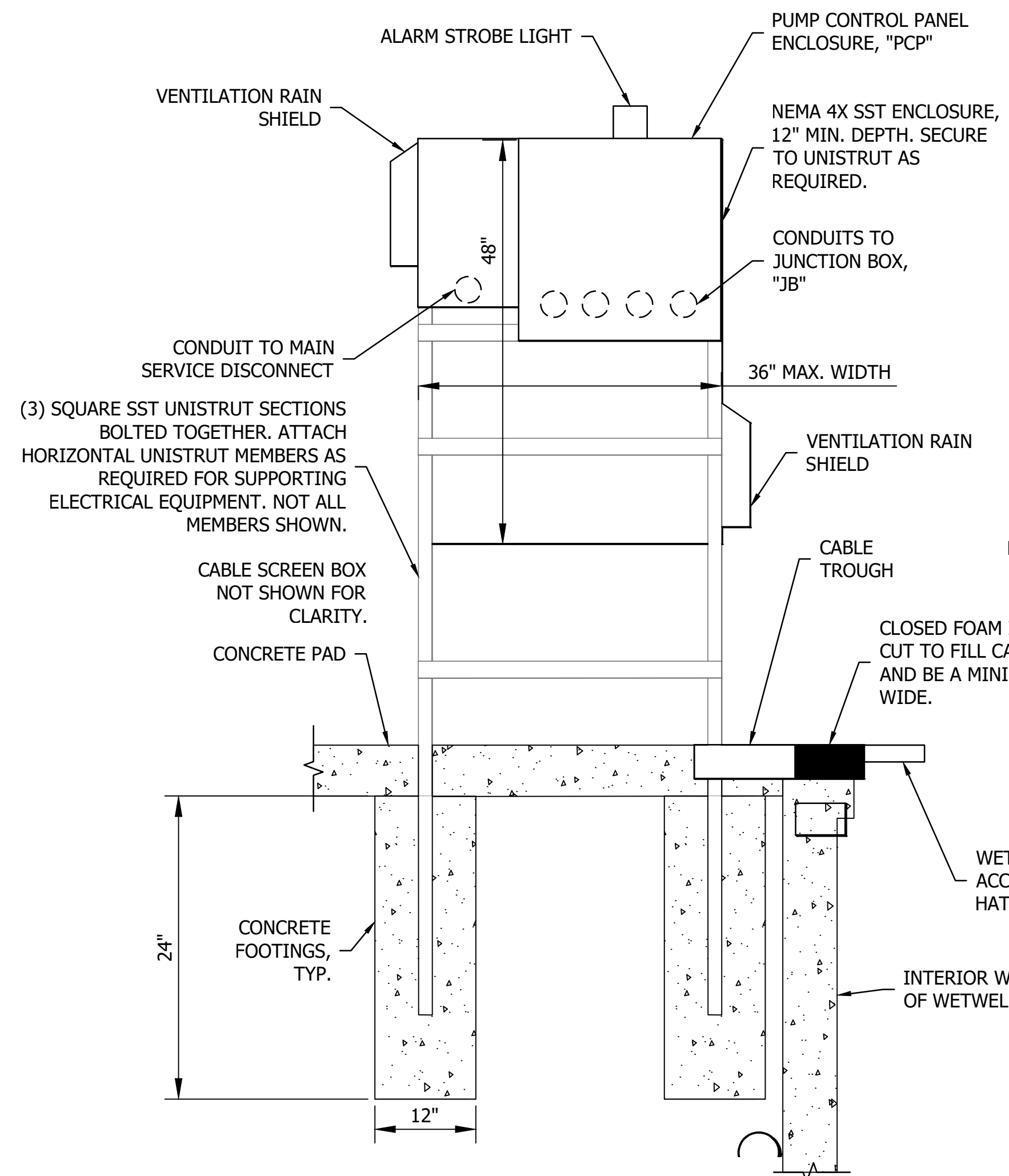


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POTHOLES LIFT STATION REPLACEMENT

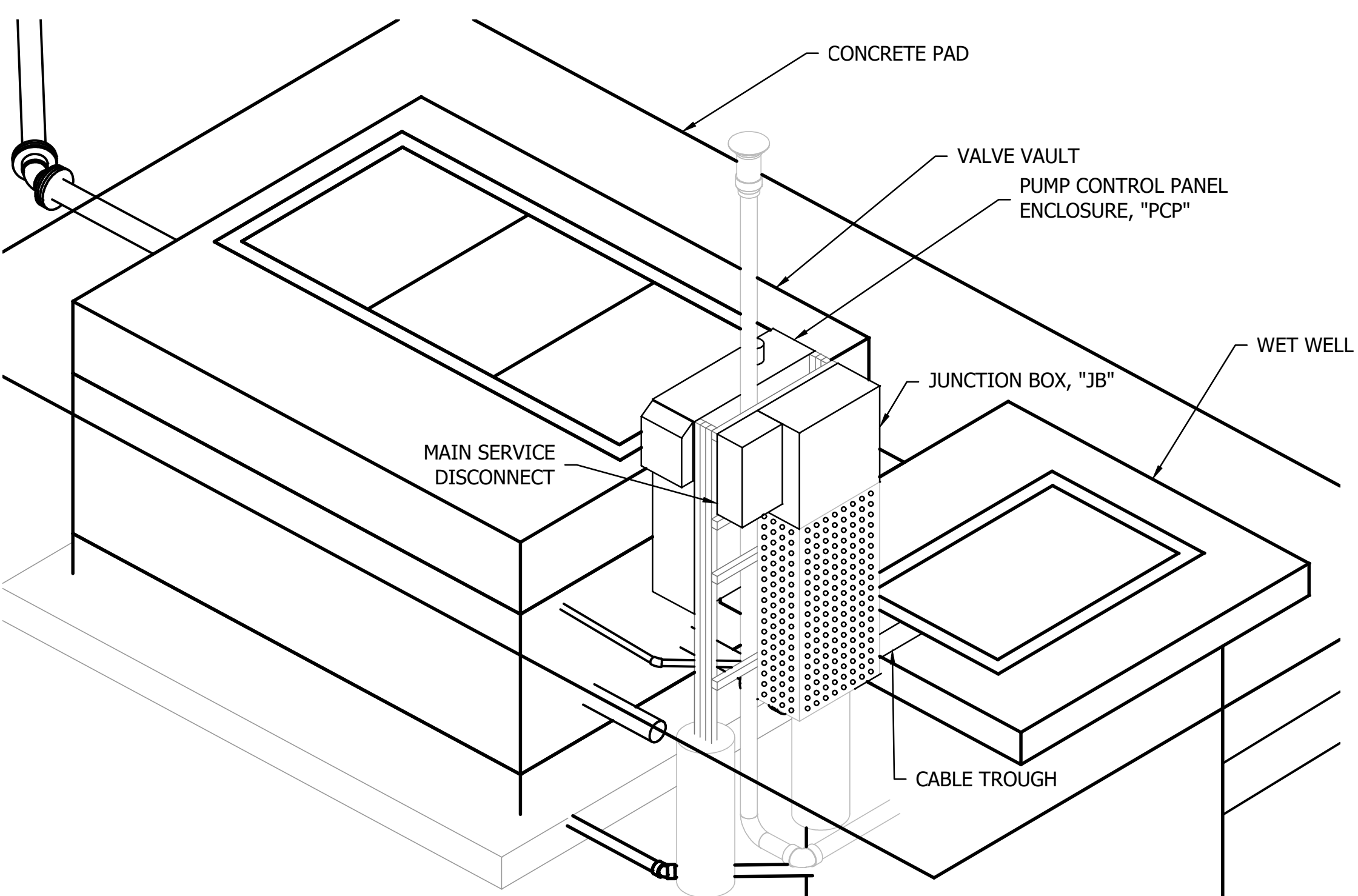
CONTROL LOGIC DIAGRAM





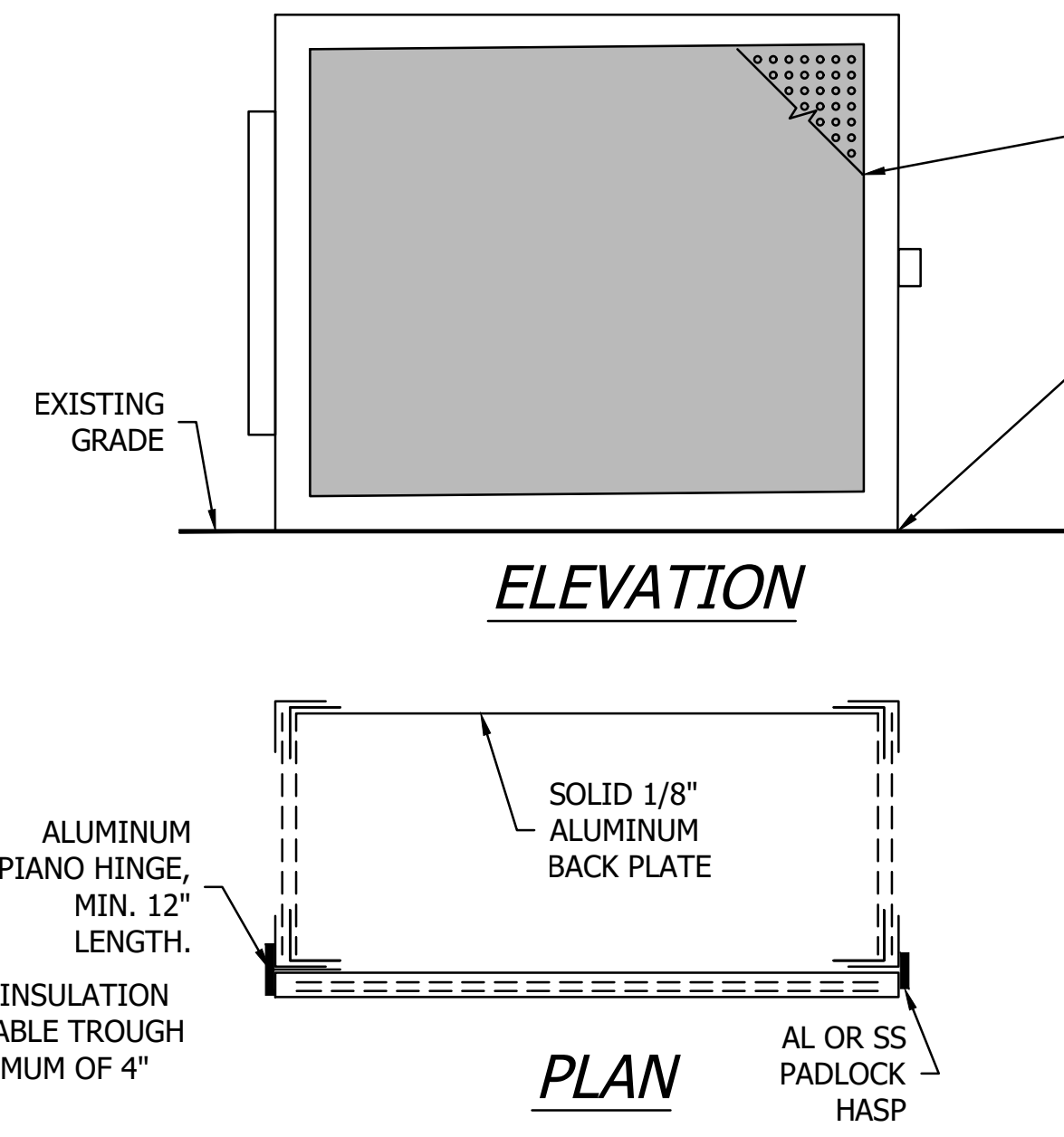
ELECTRICAL PEDESTAL, BACK ELEVATION

NOT TO SCALE



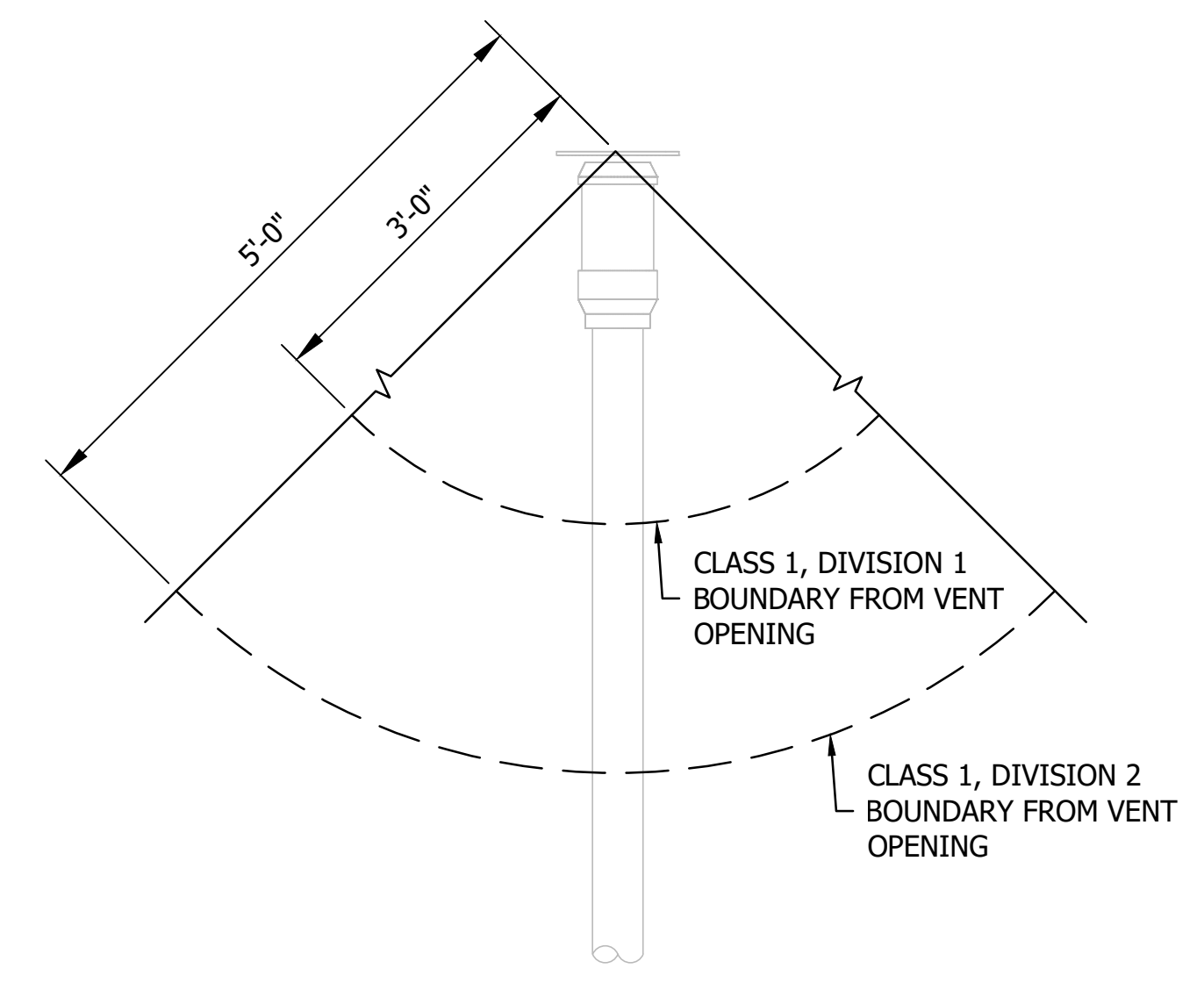
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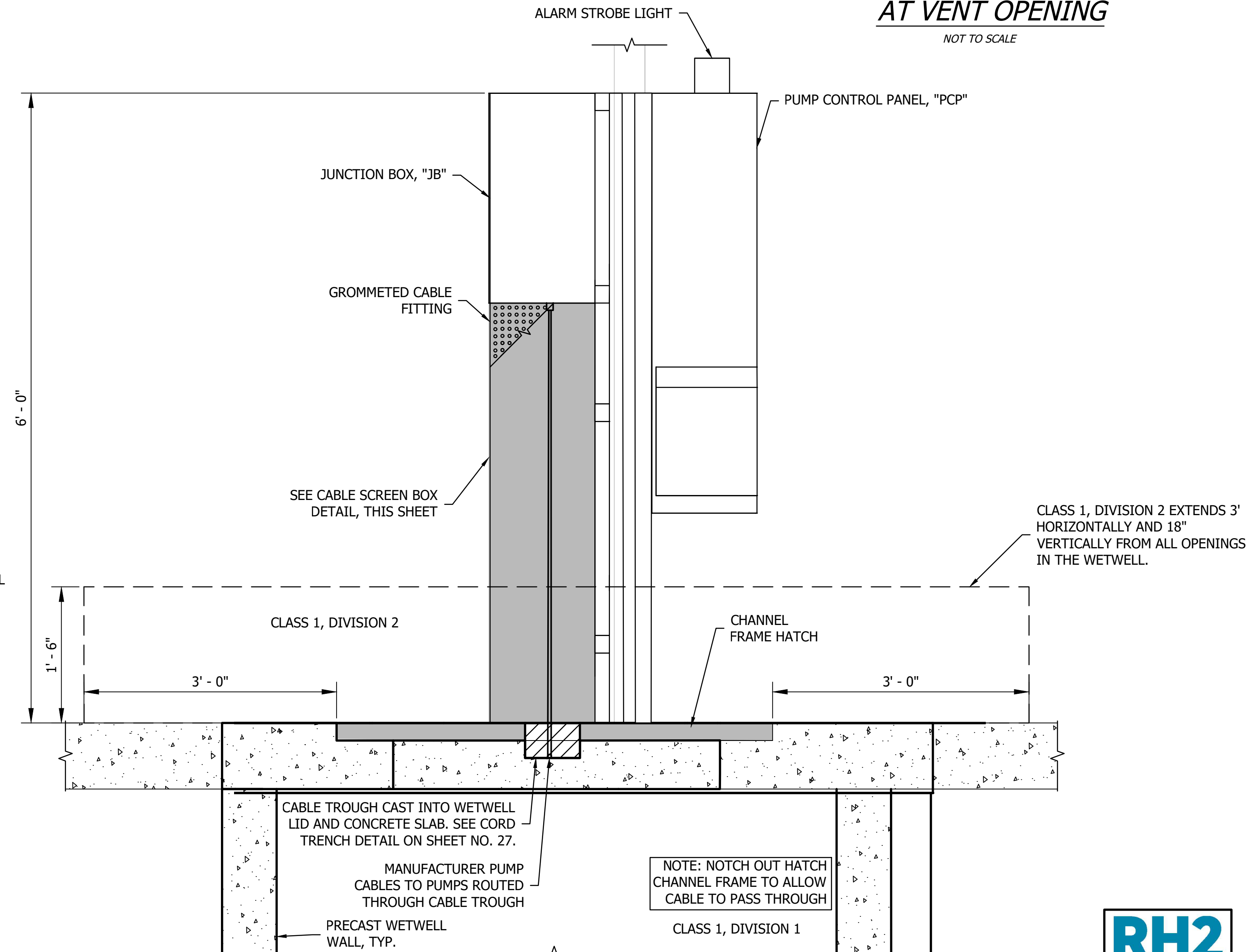
CABLE SCREEN BOX DETAILS

NOT TO SCALE



CLASSIFICATION BOUNDARIES AT VENT OPENING

NOT TO SCALE



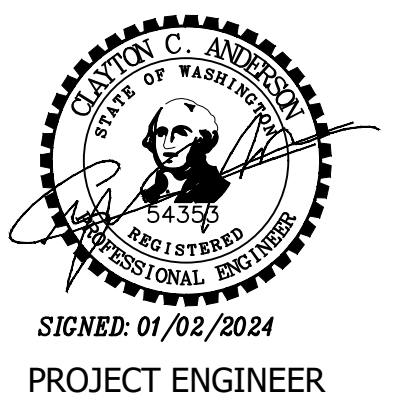
ELECTRICAL PEDESTAL, SIDE ELEVATION

NOT TO SCALE

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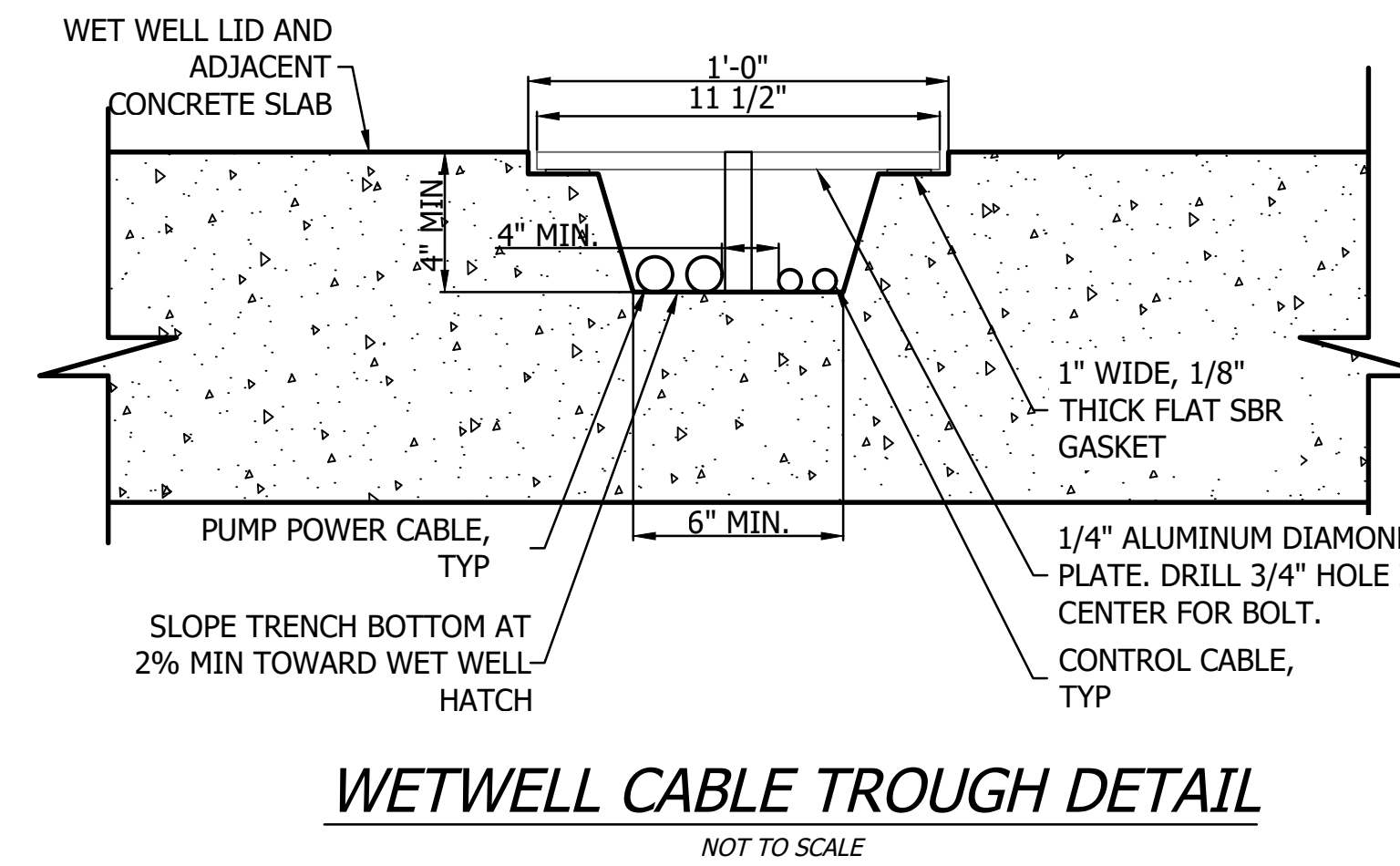
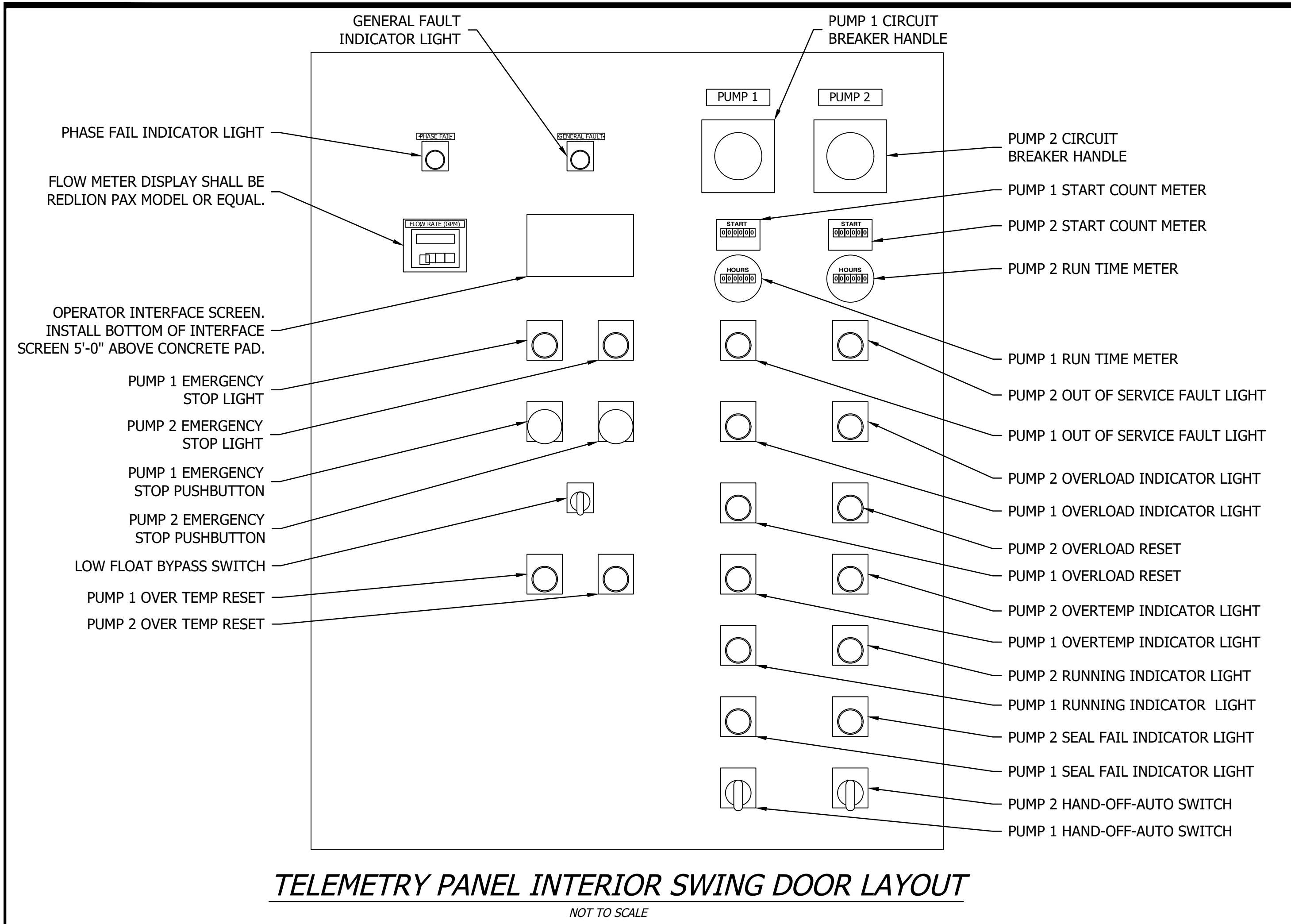


POTHOLES

LIFT STATION REPLACEMENT

ENCLOSURE DETAILS

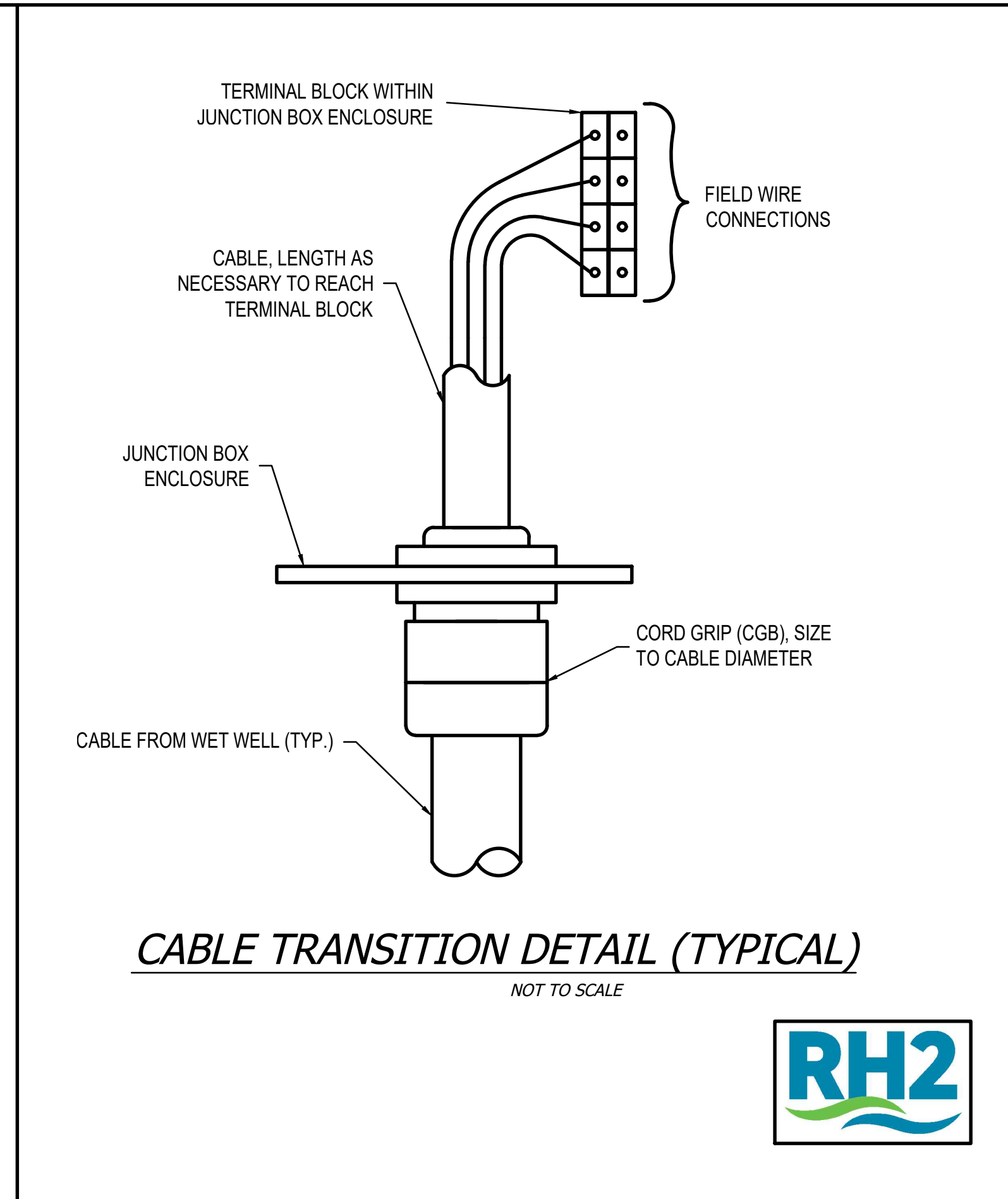
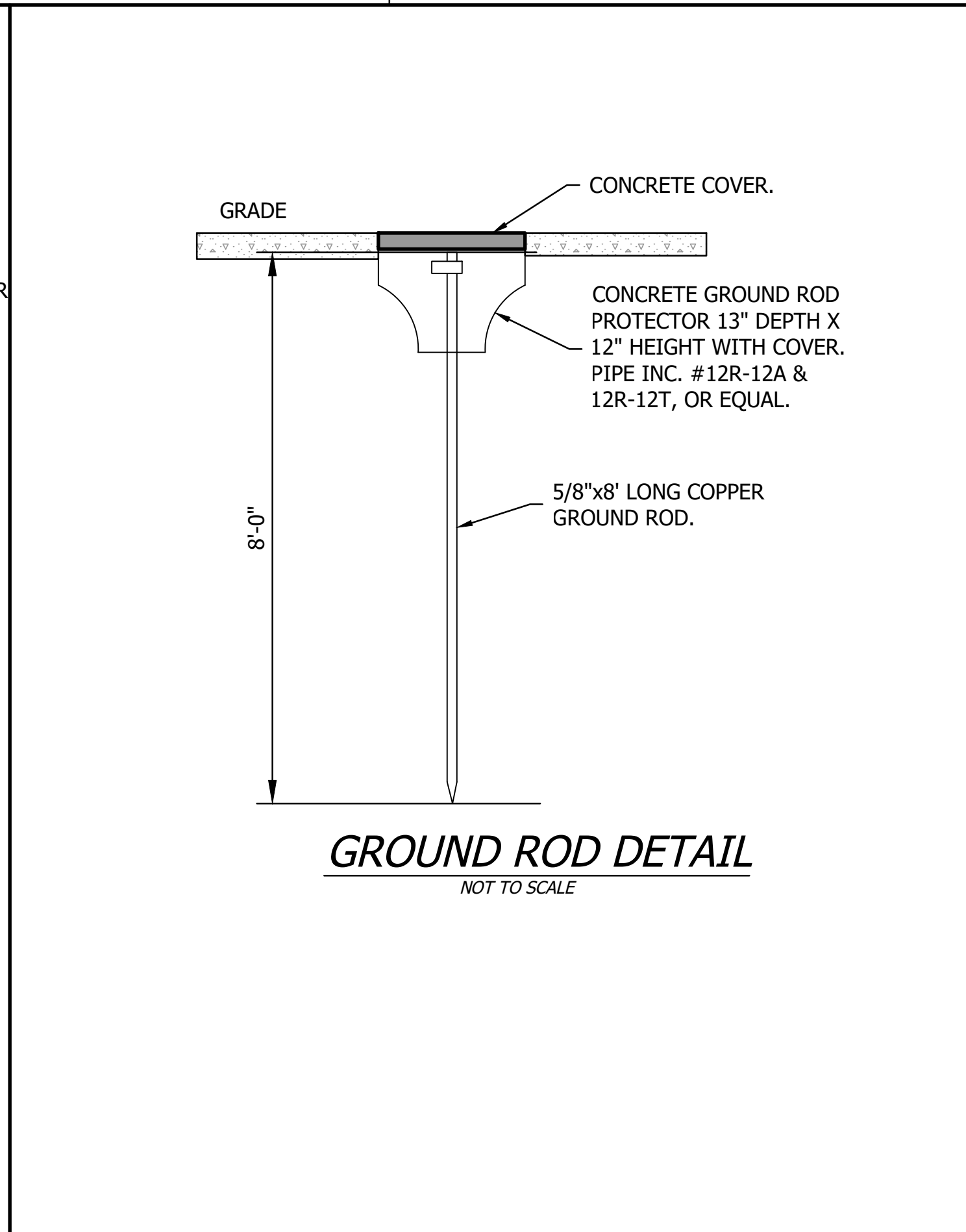
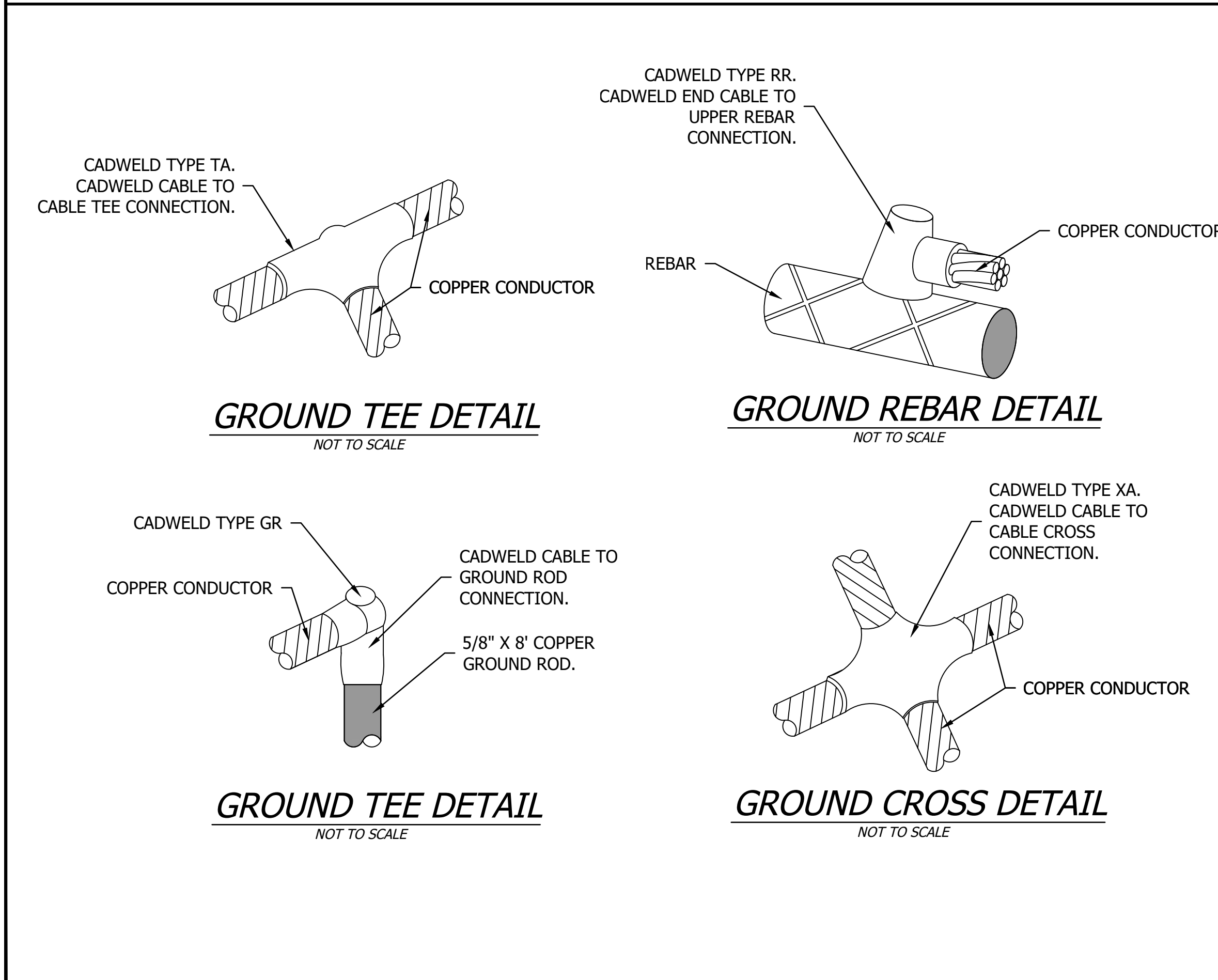
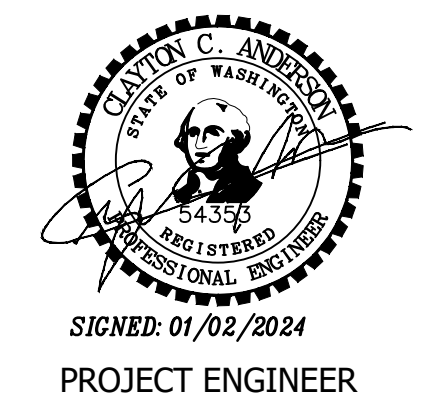




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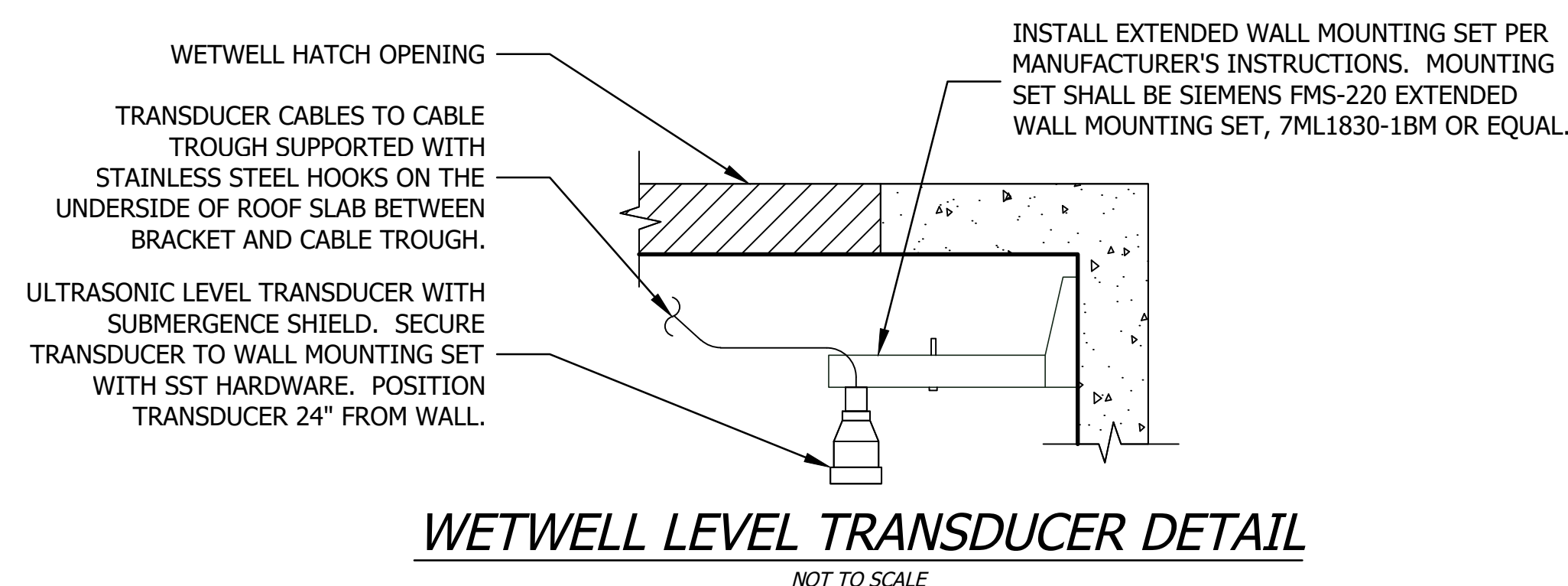
ELECTRICAL DETAILS

SHEET 19 OF 20

POWER CONDUIT AND CONDUCTOR SCHEDULE					
CIRCUIT	SOURCE	DESTINATION	TRADE SIZE	(QUANTITY) CONDUCTORS	NOTES
P101	EXISTING UTILITY METER	MAIN SERVICE DISCONNECT	1 1/4"	(3) - #3, (1) - #3 NEUTRAL	
P102	MAIN SERVICE DISCONNECT	PUMP CONTROL PANEL, "PCP"	1 1/4"	(3) - #3, (1) - #3 NEUTRAL, (1) - #8 GND	
P103	PUMP CONTROL PANEL, "PCP"	JUNCTION BOX, "JB"	3/4"	(3) - #12, (1) - #12 GND	PUMP POWER
P104	PUMP CONTROL PANEL, "PCP"	JUNCTION BOX, "JB"	3/4"	(3) - #12, (1) - #12 GND	PUMP POWER
P105	PUMP CONTROL PANEL, "PCP"	JUNCTION BOX, "JB"	3/4"	(6) - #14, (1) - #14 GND	PUMP SEAL FAILURE/OVERTEMP ALARM
P106	JUNCTION BOX, "JB"	PUMP 1	-	MANUFACTURER CABLE	IN CABLE TRENCH
P107	JUNCTION BOX, "JB"	PUMP 2	-	MANUFACTURER CABLE	IN CABLE TRENCH
P108	PUMP CONTROL PANEL, "PCP"	VALVE VAULT HEATER	3/4"	(2) - #12, (1) - #12 GND	
P109	PUMP CONTROL PANEL, "PCP"	VALVE VAULT LIGHT SWITCH	3/4"	(2) - #12, (1) - #12 GND	
P110	VALVE VAULT LIGHT SWITCH	VALVE VAULT LIGHT	3/4"	(2) - #12, (1) - #12 GND	

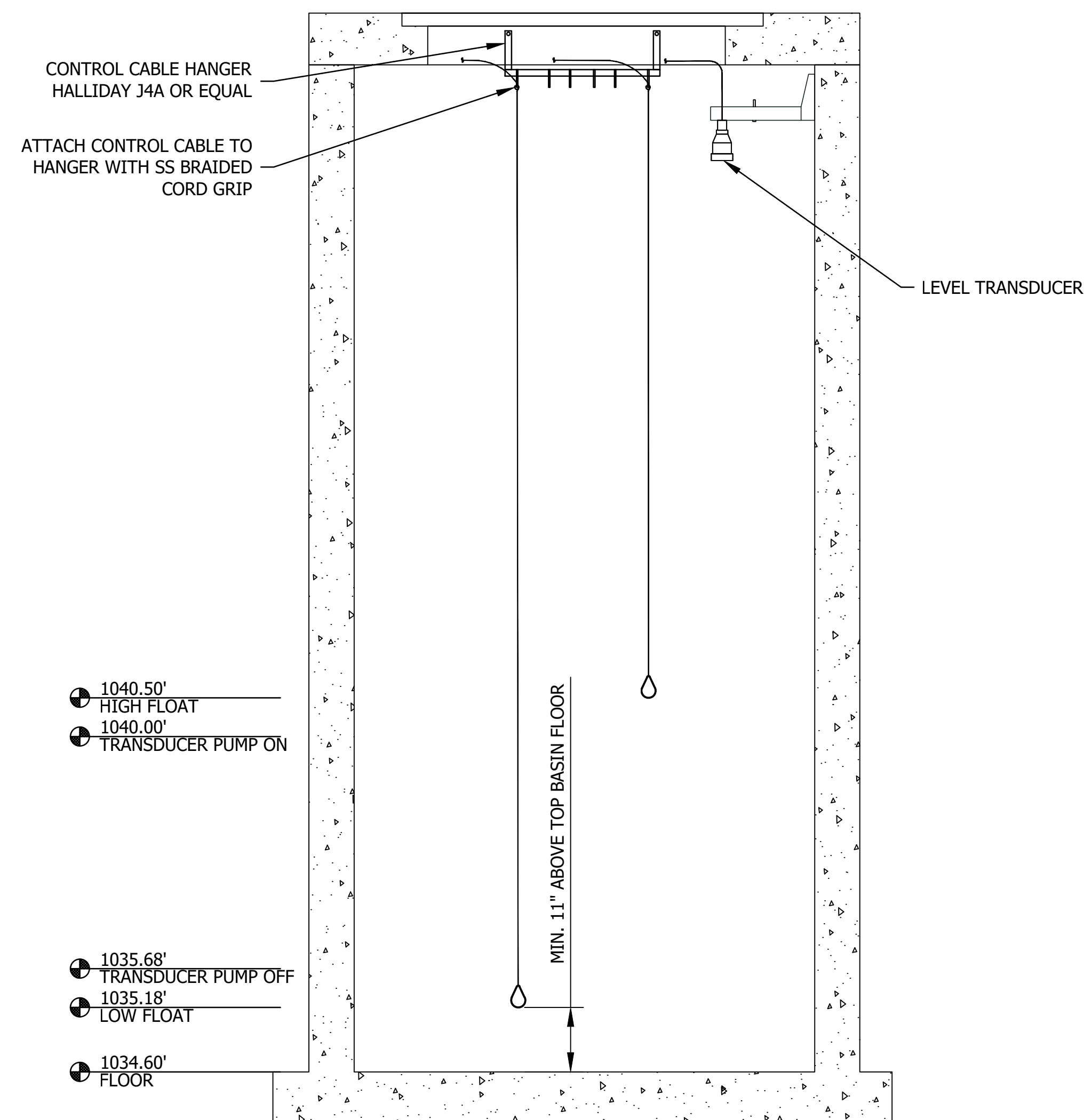
CONTROL CONDUIT AND CONDUCTOR SCHEDULE					
CIRCUIT	SOURCE	DESTINATION	TRADE SIZE	(QUANTITY) CONDUCTORS	NOTES
C101	PUMP CONTROL PANEL, "PCP"	JUNCTION BOX, "JB"	3/4"	(4) - #14, (1) - #14 GND	
C102	PUMP CONTROL PANEL, "PCP"	JUNCTION BOX, "JB"	3/4"	(1) SHIELDED TWISTED PAIR	
C103	JUNCTION BOX, "JB"	WET WELL HIGH LEVEL FLOAT	-	MANUFACTURER CABLE	IN CABLE TROUGH
C104	JUNCTION BOX, "JB"	WET WELL LOW LEVEL FLOAT	-	MANUFACTURER CABLE	IN CABLE TROUGH
C105	JUNCTION BOX, "JB"	WET WELL LEVEL TRANSDUCER	-	MANUFACTURER CABLE	IN CABLE TROUGH
C106	PUMP CONTROL PANEL, "PCP"	VALVE VAULT FLOW METER	1"	(4) - #14, (1) - #14 GND, (1) SHIELDED TWISTED PAIR	

LIGHTING FIXTURE SCHEDULE					
TYPE	DESCRIPTION	MANUFACTURER	MODEL NO.	LAMP QTY.*	LAMP CATALOG NO.
A1	LED LIGHT FIXTURE - 120VAC, 2' LONG, 47 WATT, 5000K COLOR TEMPERATURE, DIFFUSED OPAL UV-STABILIZED POLYCARBONATE VANDAL RESISTANT LENS, PLATINUM COLOR. CLASS 1, DIVISION 2 EXPLOSION PROOF HAZARDOUS LOCATION RATED.	FME LIGHTING OR EQUAL	TSWXP24 4LVCDP	1	47 WATT



TYPICAL NOTE FOR ALL WETWELLS
HIGH FLOAT AND PUMP ON LEVELS MAY BE ADJUSTED ONCE ACCURATE INVERT ELEVATIONS OF INCOMING PIPES HAVE BEEN ESTABLISHED. CONTRACTOR TO LEAVE 4' OF EXTRA CABLE FOR ADJUSTMENT.

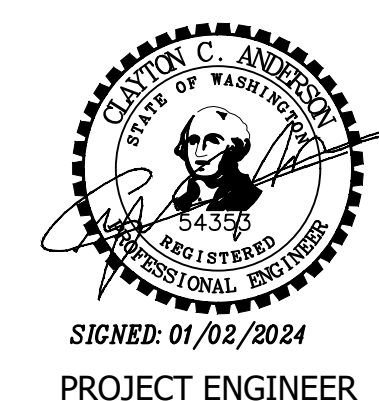
ELECTRICAL EQUIPMENT AND INSTRUMENTATION SCHEDULE			
ITEM	DESCRIPTION	MANUFACTURER	MODEL NO.
A	SERVICE DISCONNECT, 600V, 25 KAIC, SERVICE ENTRANCE RATED, NEMA 3R, PAD-LOCKABLE	SQUARE D	VH363RB OR EQUAL
B	EXPLOSION-PROOF HEATER, 1 PHASE, 1800 WATT, 277V. WALL MOUNT HARDWARE, BUILT-IN THERMOSTAT	QMARK	ICG18071 OR EQUAL
C	WET WELL LEVEL FLOAT SWITCH	SEE SPECIFICATIONS	SEE SPECIFICATIONS
D	ULTRASONIC TRANSDUCER LEVEL TRANSMITTER	SEE SPECIFICATIONS	SEE SPECIFICATIONS
E	FLOW METER	SEE SPECIFICATIONS	SEE SPECIFICATIONS



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LIFT STATION
REPLACEMENT

ELECTRICAL SCHEDULES

