# WASHINGTON STATE PARKS & RECREATION COMMISSION

KEN BOUNDS, CHAIR

SOPHIA DANENBERG

MICHAEL LATIMER

LAURIE CONNELLY

HOLLY WILLIAMS

MARK O. BROWN

ALI RAAD

DIANA DUPUIS, DIRECTOR



Ason Both

REGION MANAGER

S/8/2024

CAPITAL PROGRAM MANAGER

8/7/2024

date

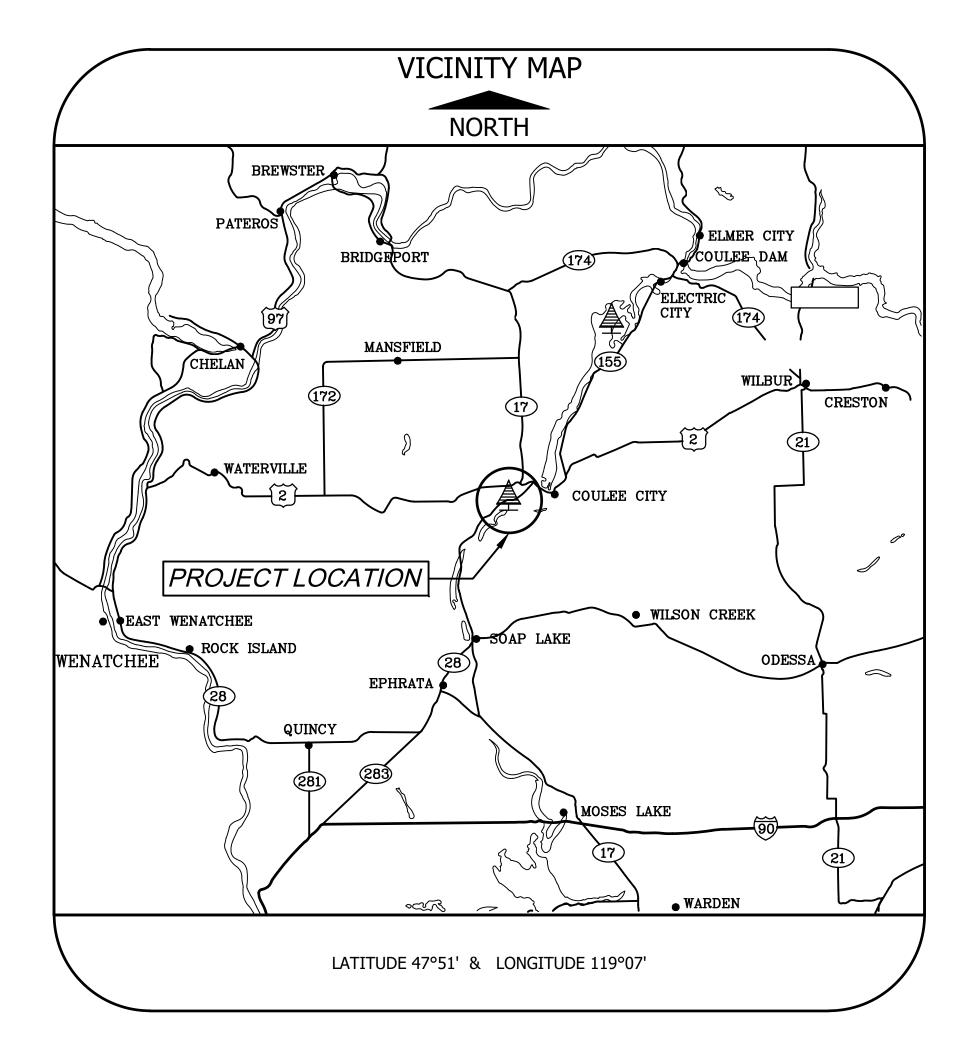
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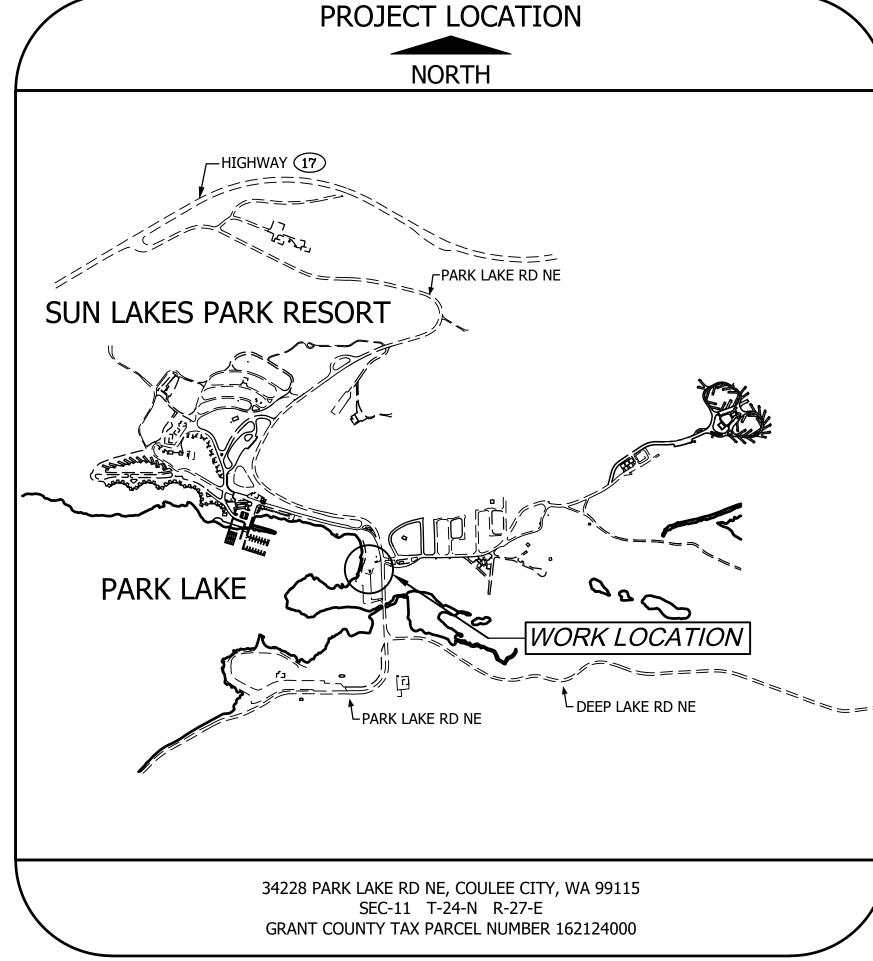
Area Manager: Denis Felton

**INDEX** 

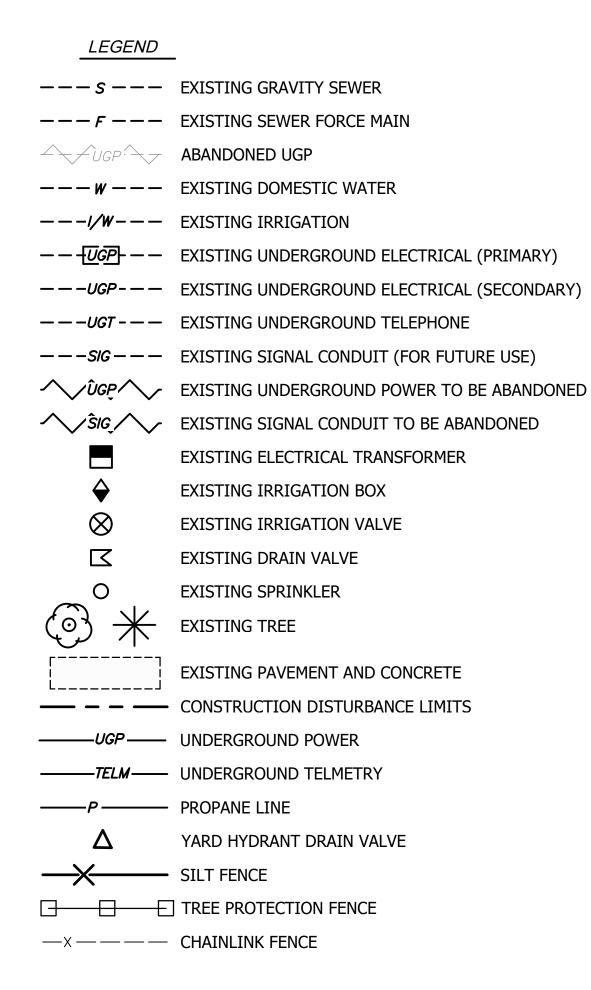
## SUN LAKES STATE PARK

### SEWER LIFT STATION REPLACEMENT





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SHEET	DESCRIPTION	
1	COVER SHEET	
2	GENERAL INFORMATION	
3	EXISTING SITE PLAN	
4	LIFT STATION SITE PLAN	
5	EXISTING MECHANICAL AND DEMOLITION PLAN	
6	MECHANCIAL PLAN 1	
7	MECHANCIAL PLAN 2	
8	MECHANICAL DETAILS	
9	STRUCTURAL PLAN	
10	STRUCTURAL ELEVATIONS AND PLAN	FIT
11	LIFT STATION DETAILS 1	FTRO
12	LIFT STATION DETAILS 2	2 2 0
13	FORCEMAIN CONNECTION DETAIL	ΤΔΤ
14	ELECTRICAL LEGEND	Ē
15	ONE-LINE DIAGRAM	— Ш Ш
16	ELECTRICAL SITE PLAN	Ē
17	CONTROL LOGIC DIAGRAM	JECT
18	ENCLOSURE DETAILS	PROJE
19	ELECTRICAL DETAILS	
20	ELECTRICAL SCHEDULES	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
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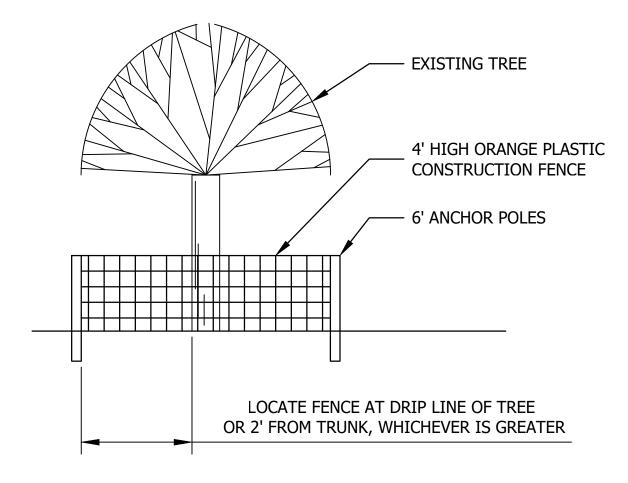


#### CONSTRUCTION NOTES

- 1. EXISTING SITE PLAN WAS DEVELOPED FROM MULTIPLE PRIOR PROJECT RECORDS. NO SURVEY WAS PERFORMED FOR THIS PROJECT. TOPOGRAPHICAL 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 WETWELL WILL NOT BE ALLOWED. SHORING MANHOLE BOXES, MANHOLE SHIELDS OR FUNCTIONAL EQUIVALENT MUST BE USED FOR CONSTRUCTION OF THE WETWELL.

#### 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
F.F.: FINISHED FLOOR



TREE PROTECTION FENCE

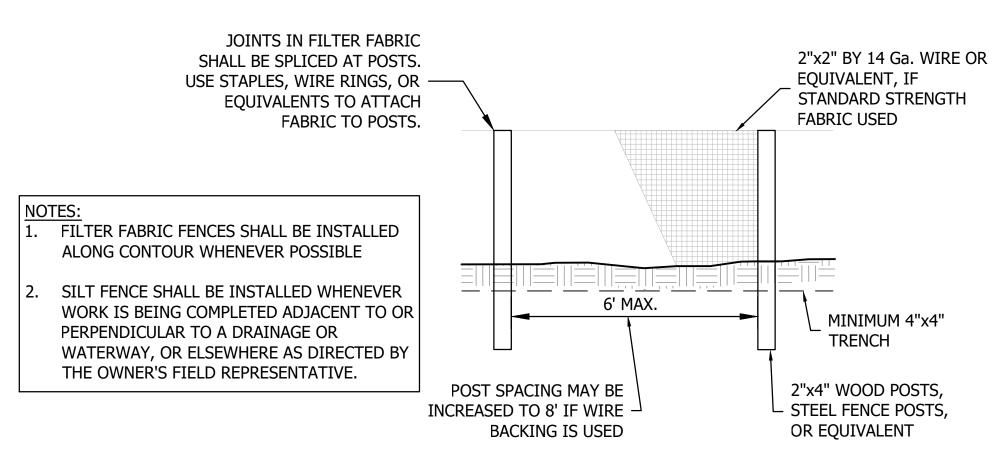
2"x2" BY 14 Ga. WIRE OR

STANDARD STRENGTH

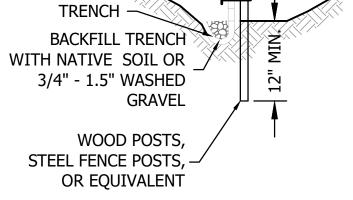
EQUIVALENT, IF

FABRIC USED





SILT FENCE
NOT TO SCALE



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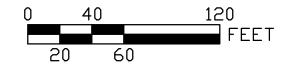


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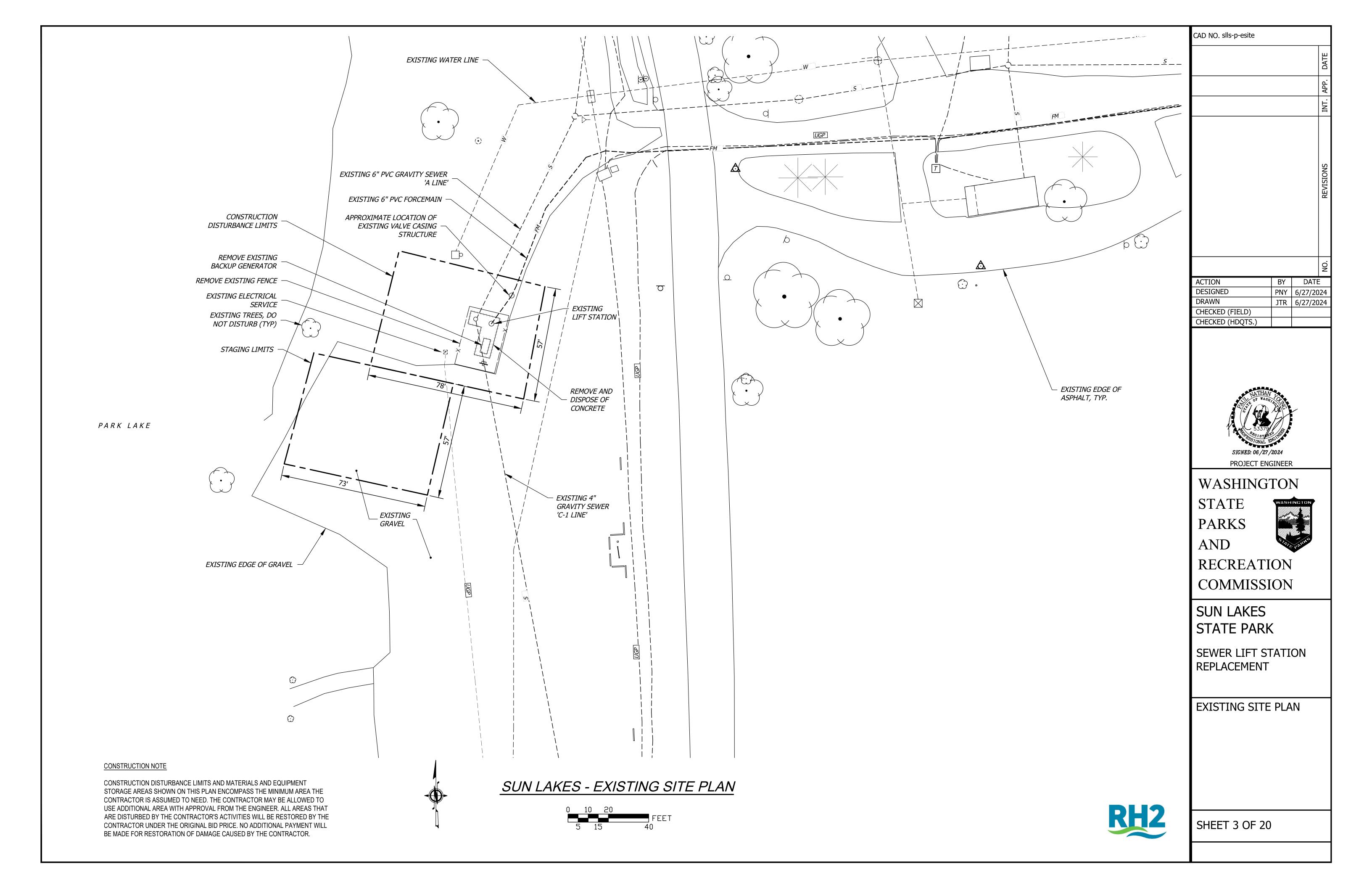
SEWER LIFT STATION REPLACEMENT

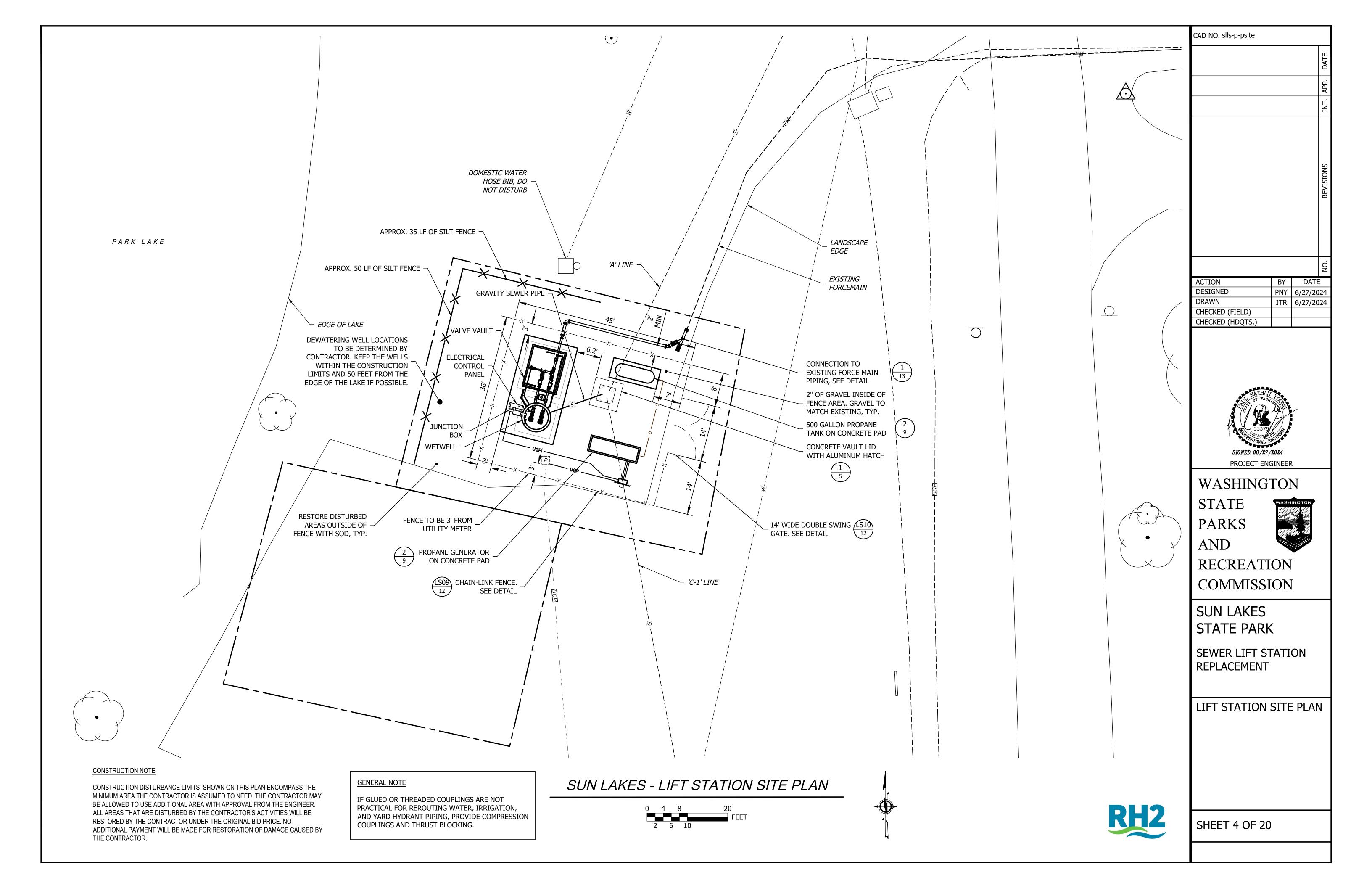
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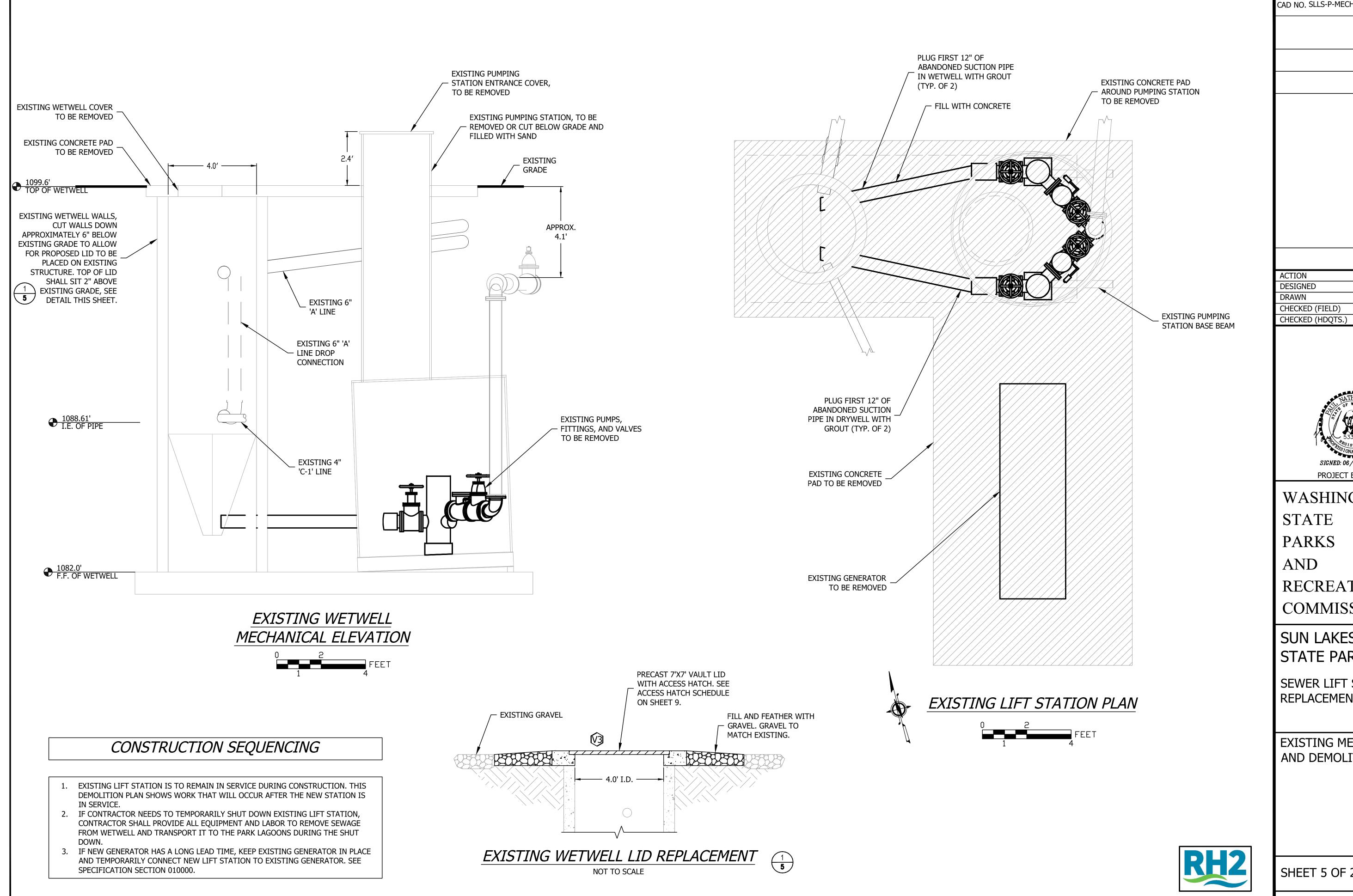




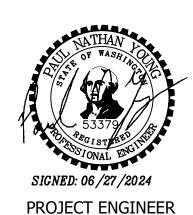
SHEET 2 OF 20







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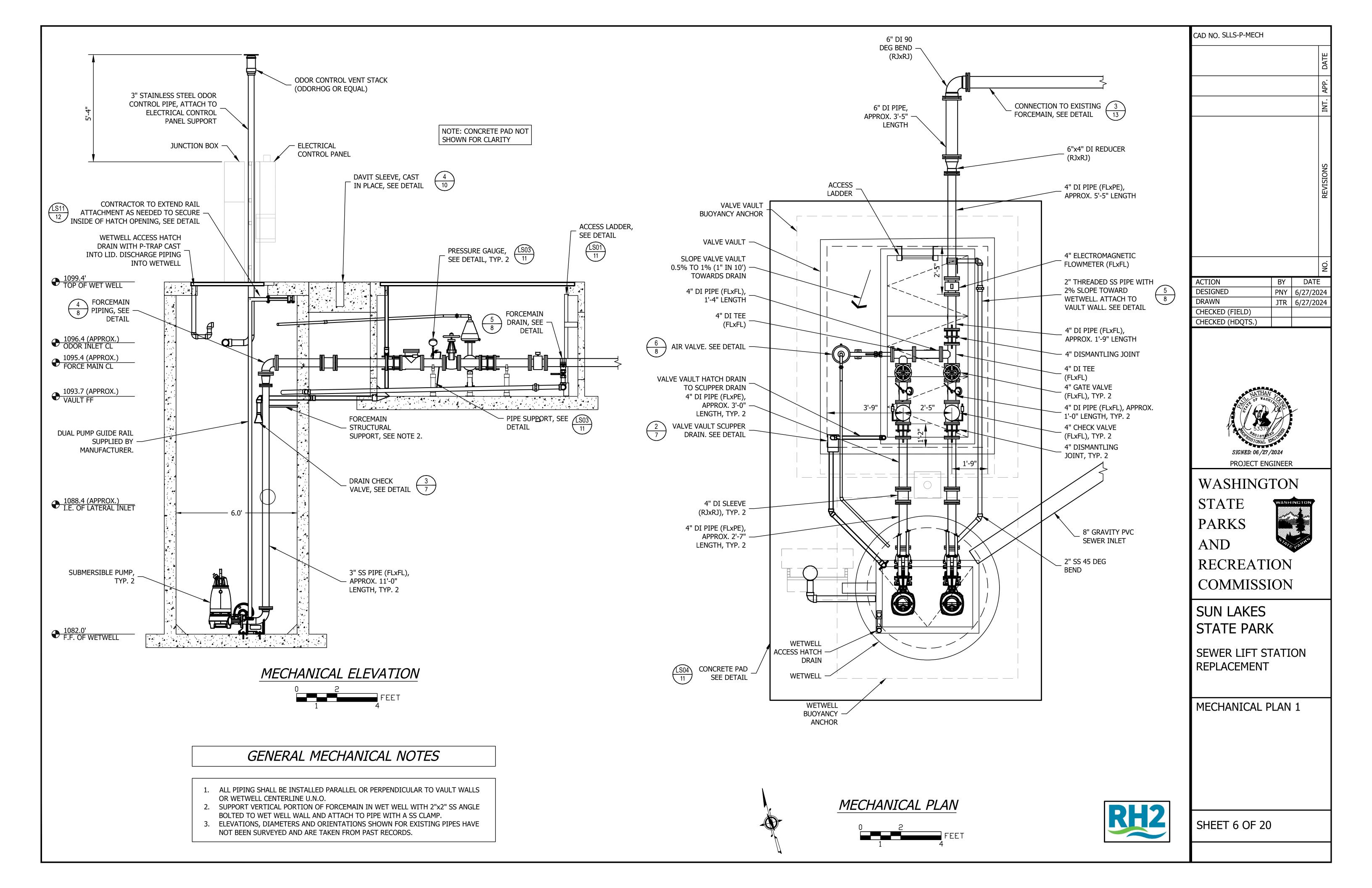
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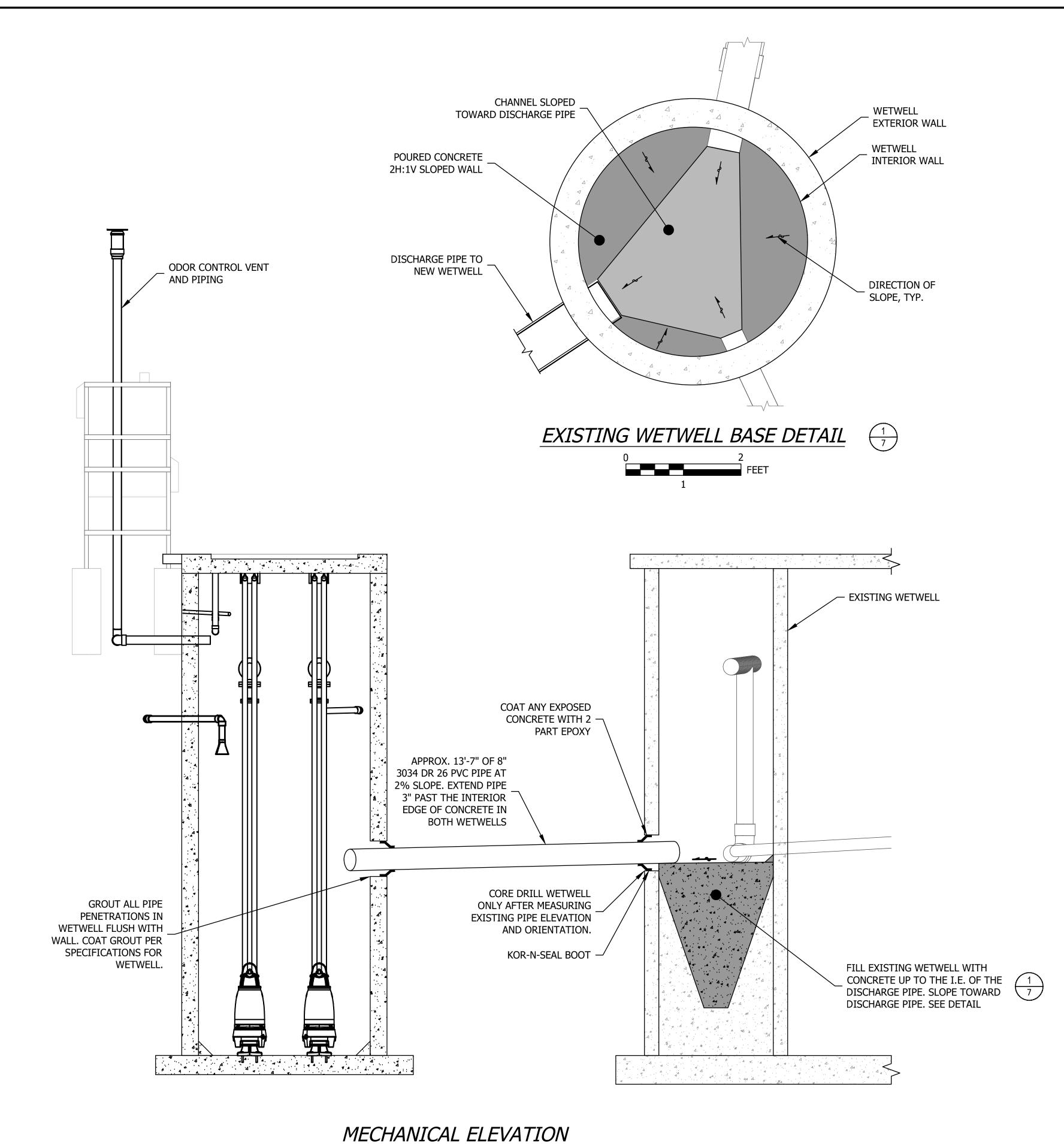
SUN LAKES STATE PARK

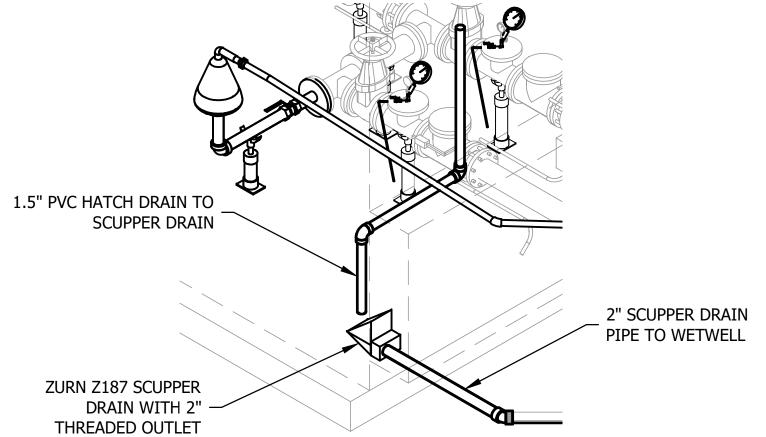
SEWER LIFT STATION REPLACEMENT

EXISTING MECHANICAL AND DEMOLITION PLAN

SHEET 5 OF 20



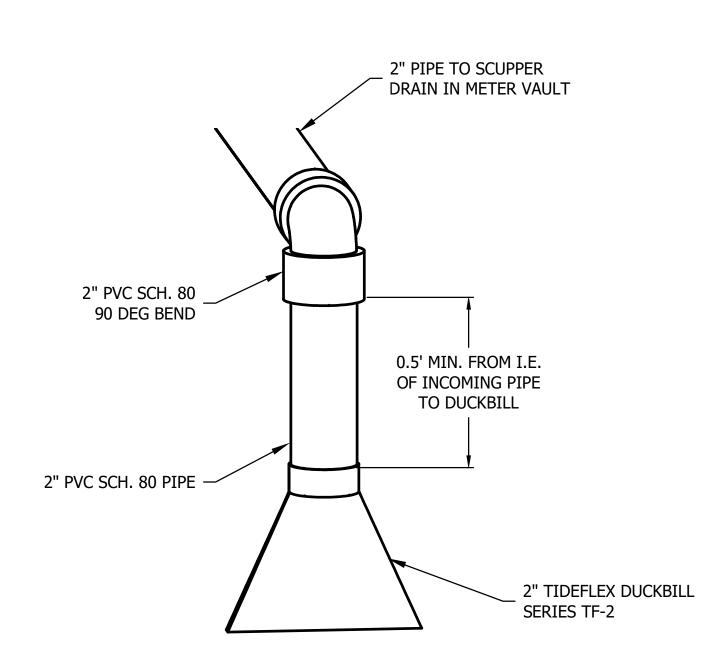




VALVE VAULT SCUPPER DRAIN

NOT TO SCALE





VALVE VAULT DRAIN
DISCHARGE IN WETWELL

NOT TO SCALE

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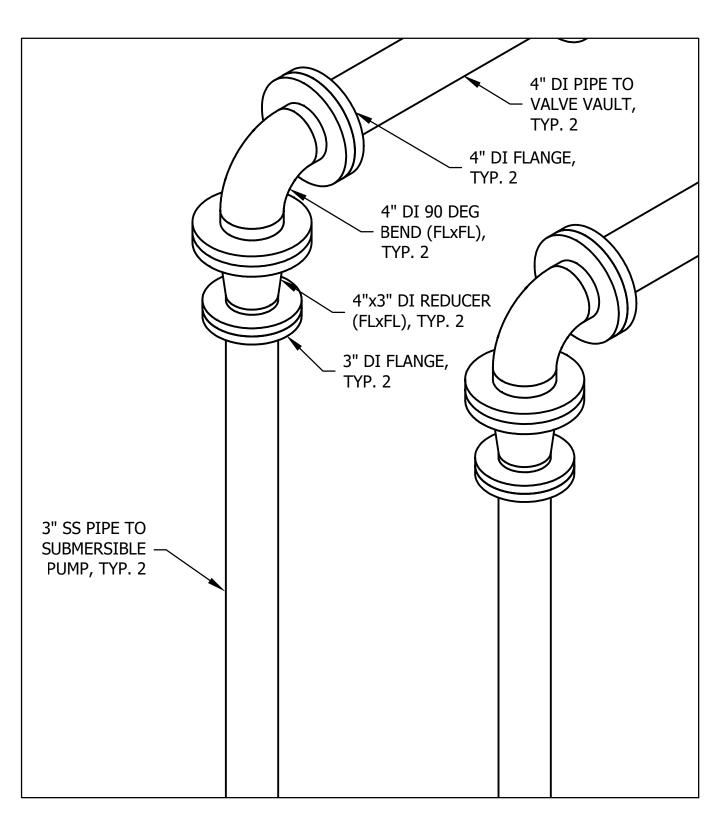
SEWER LIFT STATION REPLACEMENT

MECHANICAL PLAN 2

RH2

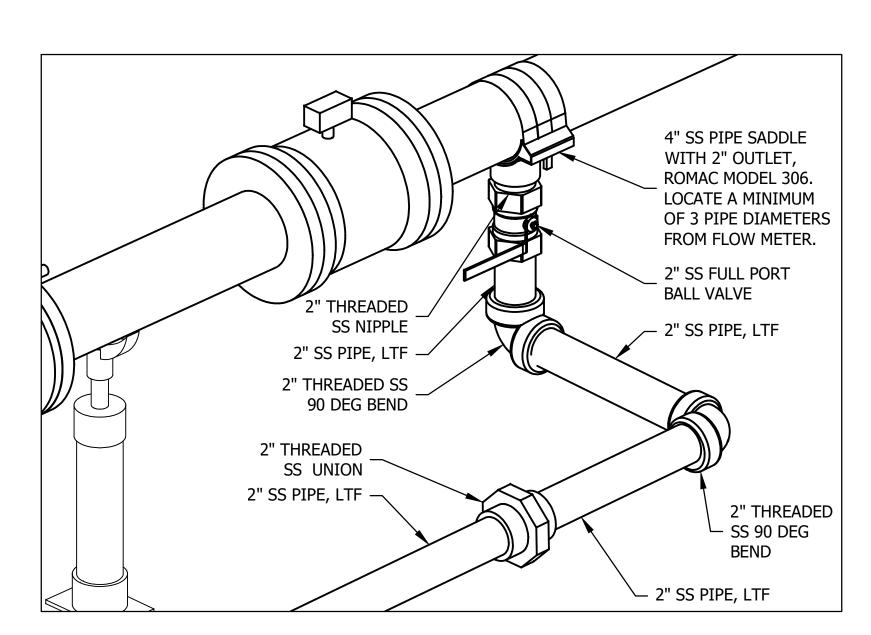
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SHEET 7 OF 20





NOT TO SCALE

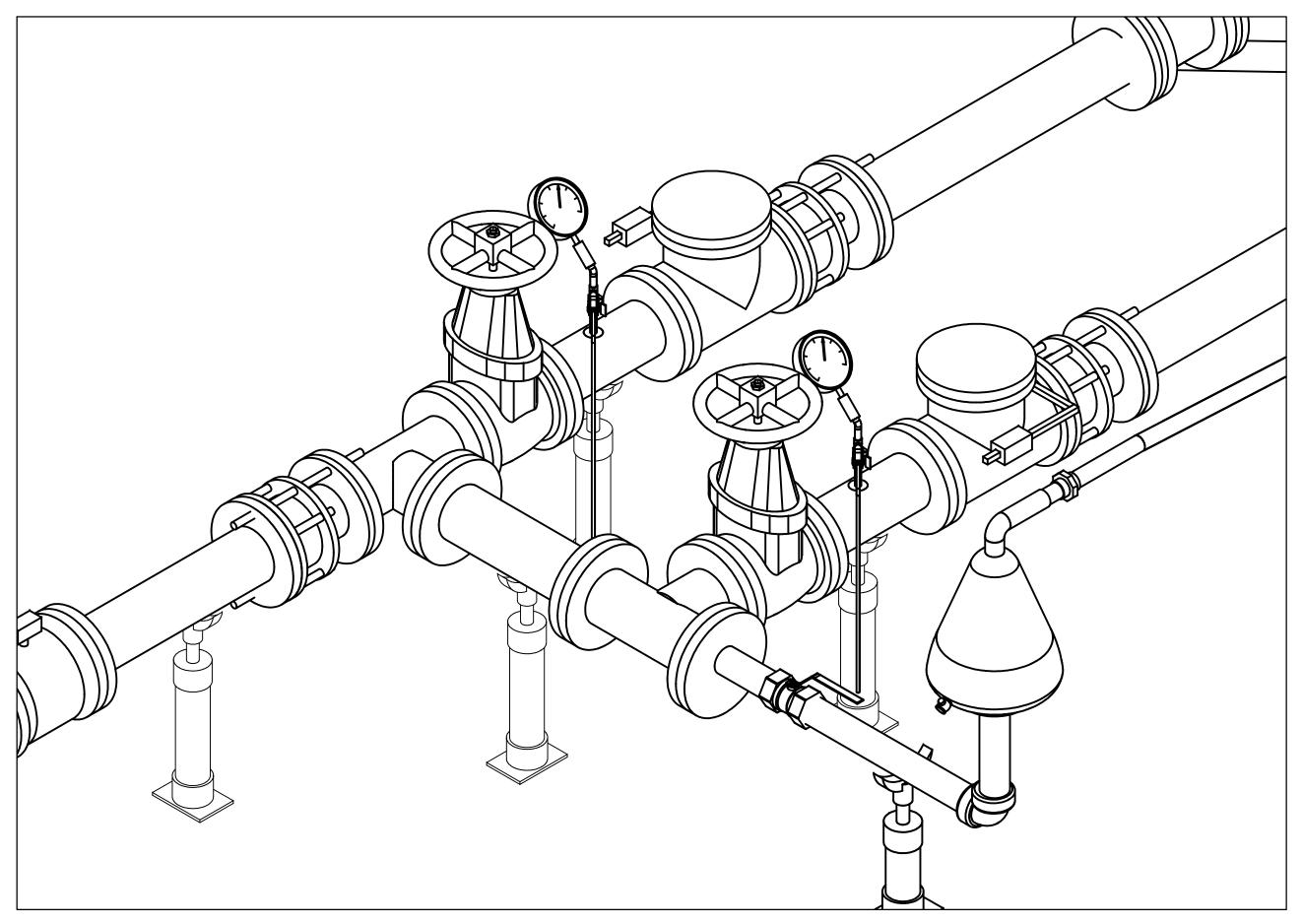


#### TYPICAL VALVE VAULT FORCEMAIN DRAIN OBLIQUE

NOT TO SCALE



<u>5</u>



#### VALVE VAULT PIPING OBLIQUE

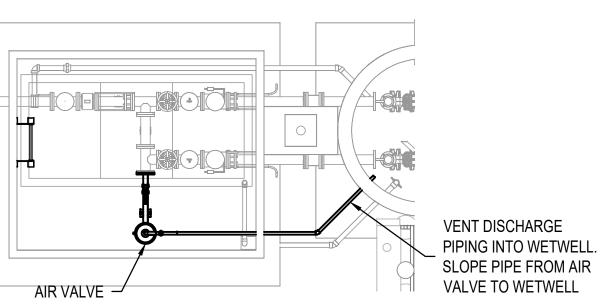
VALVE, THREADED

2" SS PIPE, LTF

NOT TO SCALE 1½" BUTT FUSION BY \_ THREADED SS ADAPTER 1½" POLY PIPE, SEE
PLAN VIEW FOR
CONTINUATION 1½" THREADED \_ SS UNION 1 1/2" THREADED 4" DI FLANGE TOP OF 2" PORT SS NIPPLE · WITH 2" TO MATCH TOP -OFFSET PORT OF 4" OPENING A.R.I D-025 AIR VALVE WITH 2" THREADED REINFORCED NYLON BODY, 2" OFFSET PORT INSIDE DIAMETER THREADED INLET AND 1½" NPT FEMALE DISCHARGE - OF 4" PIPE ON BOLT HOLES **EXISTING TEE** OFF SET PORT DETAIL NOT TO SCALE - 2" SS PIPE, LTF 4" DI FLANGE WITH 2" OFFSET PORT 2" SS 90° - THREADED 2" SS FULL PORT BALL **ELBOW** 

➤ PIPE SUPPORT

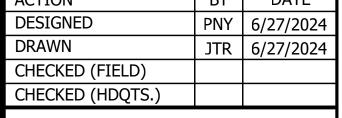
AIR VALVE OBLIQUE
NOT TO SCALE



AIR VALVE PLAN NOT TO SCALE



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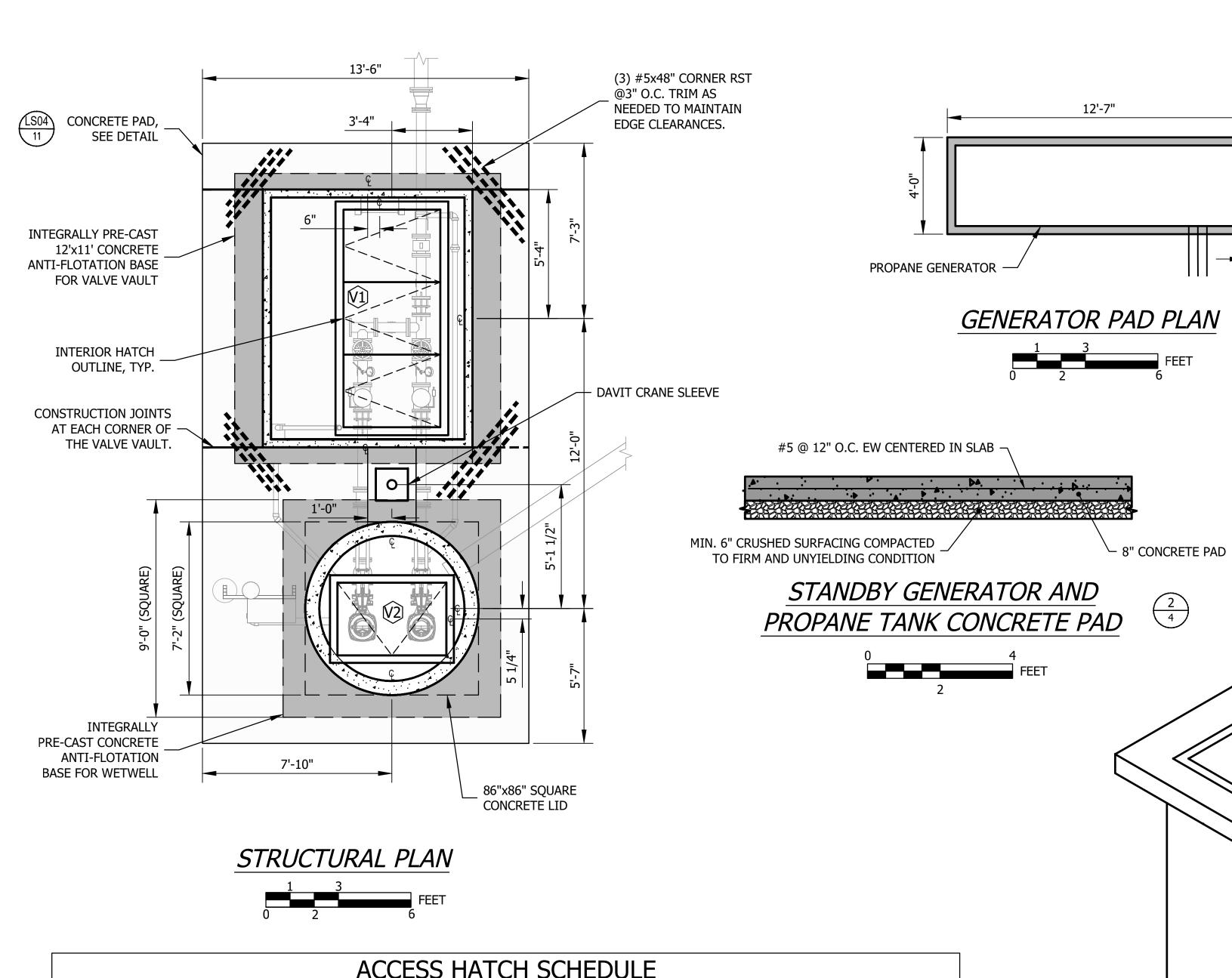
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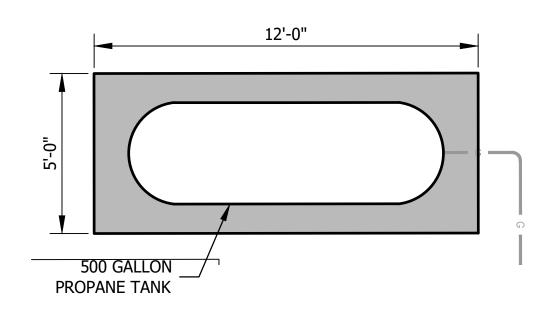
SEWER LIFT STATION REPLACEMENT

MECHANICAL DETAILS

SHEET 8 OF 20



	4	12'-7"	-	ο       	
PROPANE GEN	ERATOR —			4" MIN. BEYOND EQUIPMENT BOLTS, TYP.	
	CENEDATO	)	. <i></i>		



#### PROPANE TANK PAD PLAN



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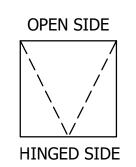
SHEET 9 OF 20

	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
<b>√3</b>	48" X 48"	2	ALUMINUM	H-20	EMBEDDED	NO	ODOR TIGHT	NO

	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				

#### HATCH NOTES

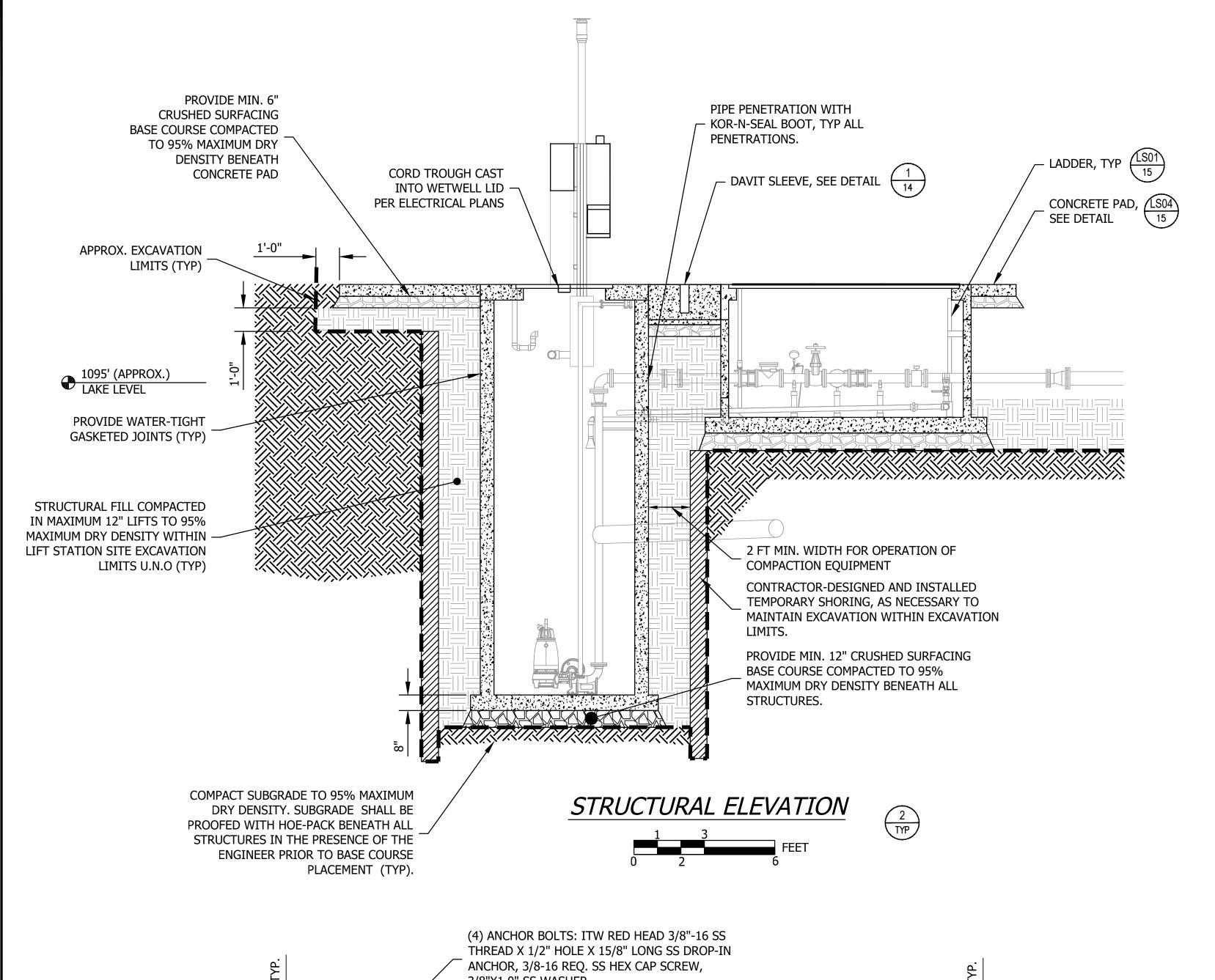
SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. WETWELL HATCH FRAME TO BE MODIFIED FOR PUMP CABLE REMOVAL. DEBUR AND GRIND ALL CUT EDGES SMOOTH.

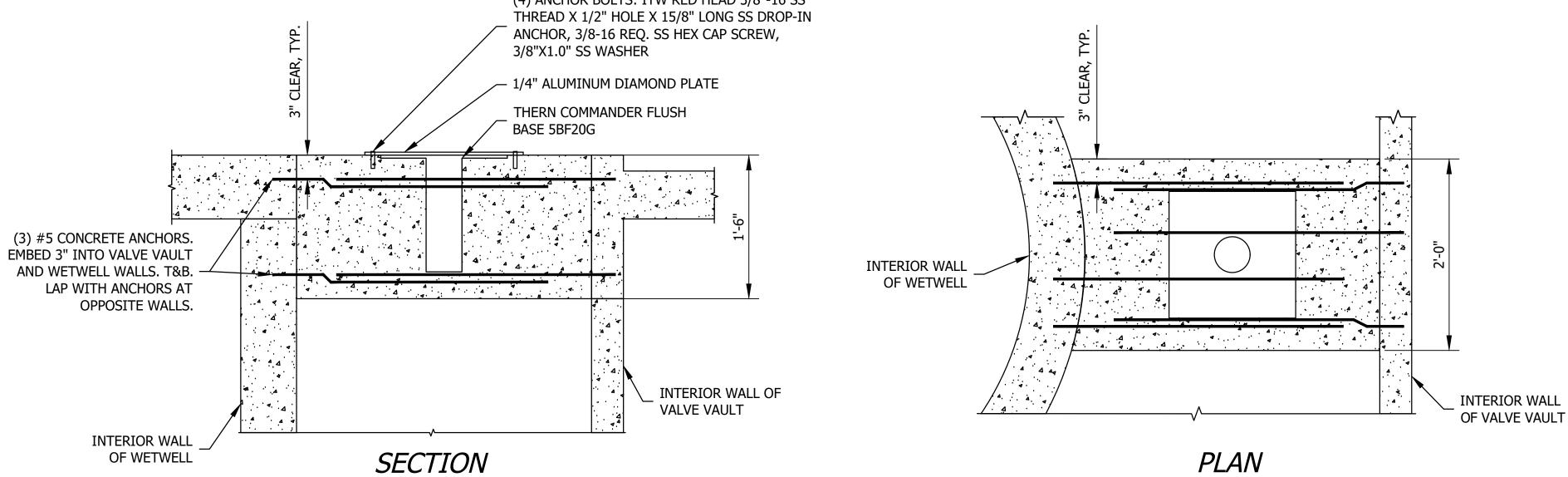


ACCESS HATCH SYMBOL

STRUCTURAL OBLIQUE NOT TO SCALE

CONCRETE PAD NOT SHOWN FOR CLARITY





#### GENERAL NOTES

1. ALL STRUCTURE RIMS SHALL BE SET 2" ABOVE EXISTING GRADE.

HEIGHTS SHOWN ON PLANS.

- 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.
- THE INTERIOR OF THE WETWELL SHALL BE COATED PER THE SPECIFICATIONS.
   CONCRETE ANTI-FLOTATION BASES TO BE PRE-CAST AROUND WETWELL AND VAULT BASES. BOTTOM ELEVATION OF ANTI-FLOTATION BASES TO MATCH BOTTOM ELEVATION OF WETWELL AND VAULT BASES, RESPECTIVELY. PRECAST STRUCTURES TO BE PROVIDED WITH RISERS AS NECESSARY TO MATCH STRUCTURE CLEARANCE
- 6. GROUNDWATER IS TO BE EXPECTED IN THE EXCAVATION. CONTROL WATER TO KEEP EXCAVATION DRY DURING INSTALLATION. SEE SPECIFICATIONS DIVISION 31.

	_	STRAIGHT NT LENGTHS	MINIMUM LAP SPLICE LENGTHS	MINIMUM EMBEDMENT LENGTHS
BAR	TENSIC	N BARS	TENSION BARS	END HOOKS
SIZE	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.

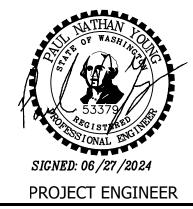
IF CLEAR CONCRETE COVER IS LESS THAN 2x THE DIAMETER OF THE BAR OR THE CENTER-TO-CENTER SPACING IS LESS THAN (4) BAR DIAMETERS, THEN VALUES SHALL BE INCREASED BY 43%.

REINFORCEMENT SPLICE
AND DEVELOPMENT
LENGTH SCHEDULE



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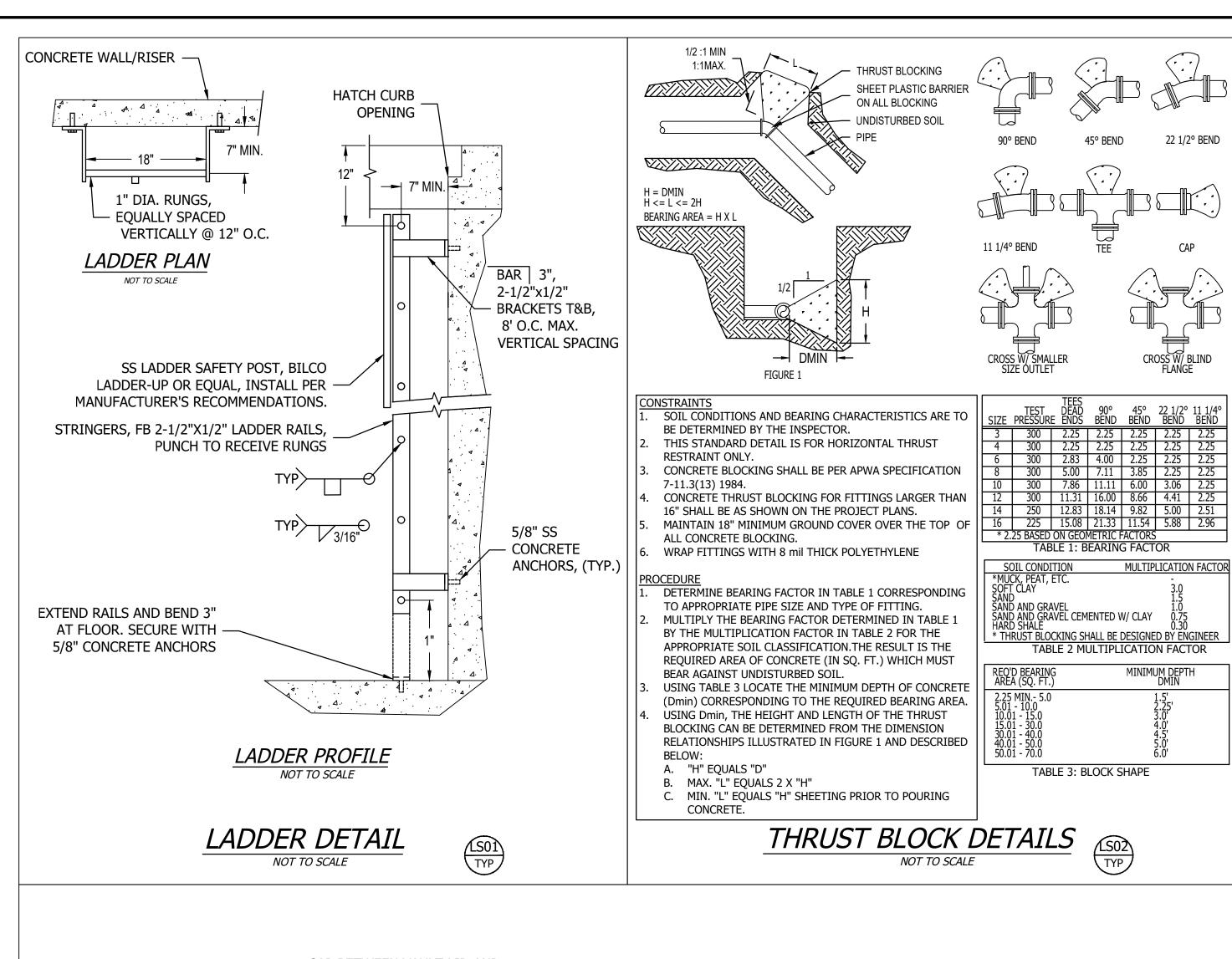
SUN LAKES STATE PARK

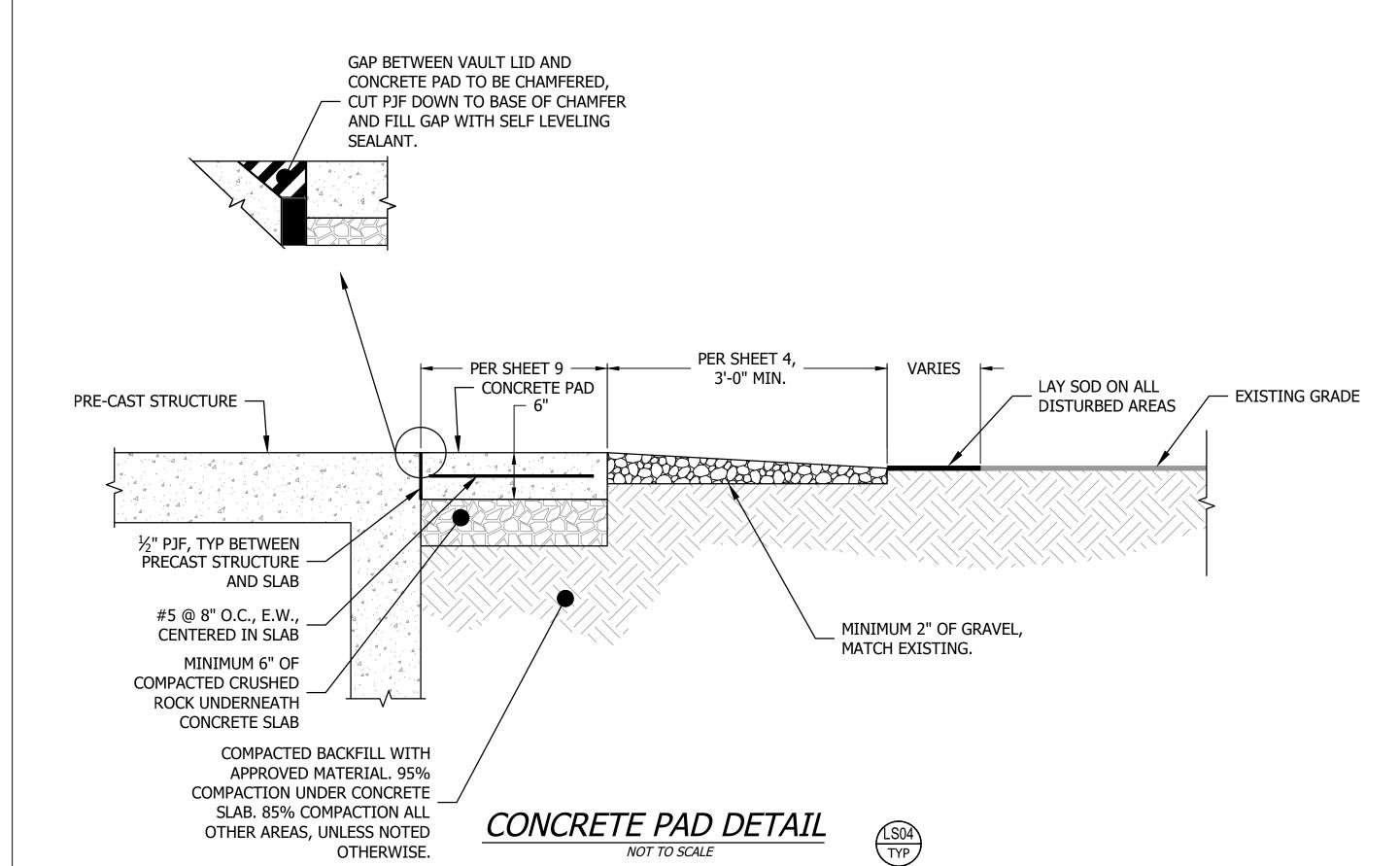
SEWER LIFT STATION REPLACEMENT

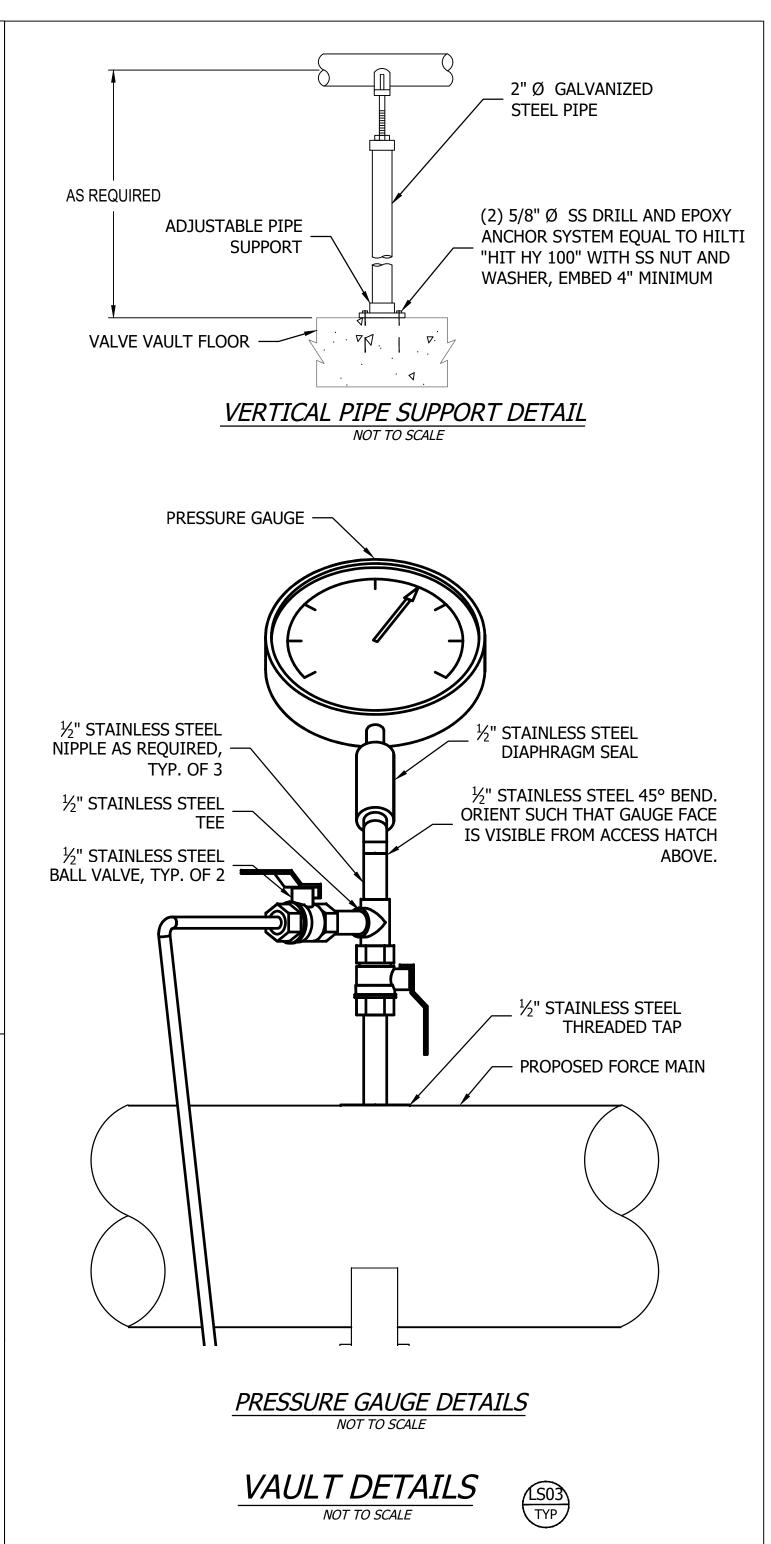
STRUCTURAL
ELEVATIONS AND PLAN

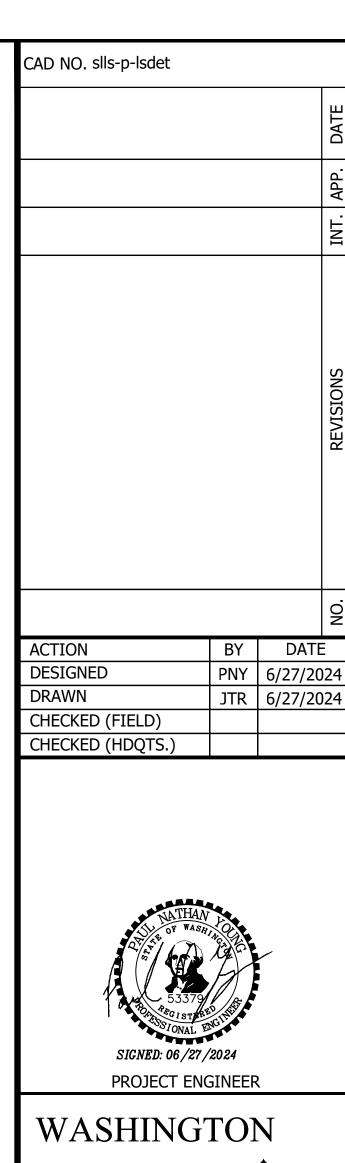
SHEET 10 OF 20











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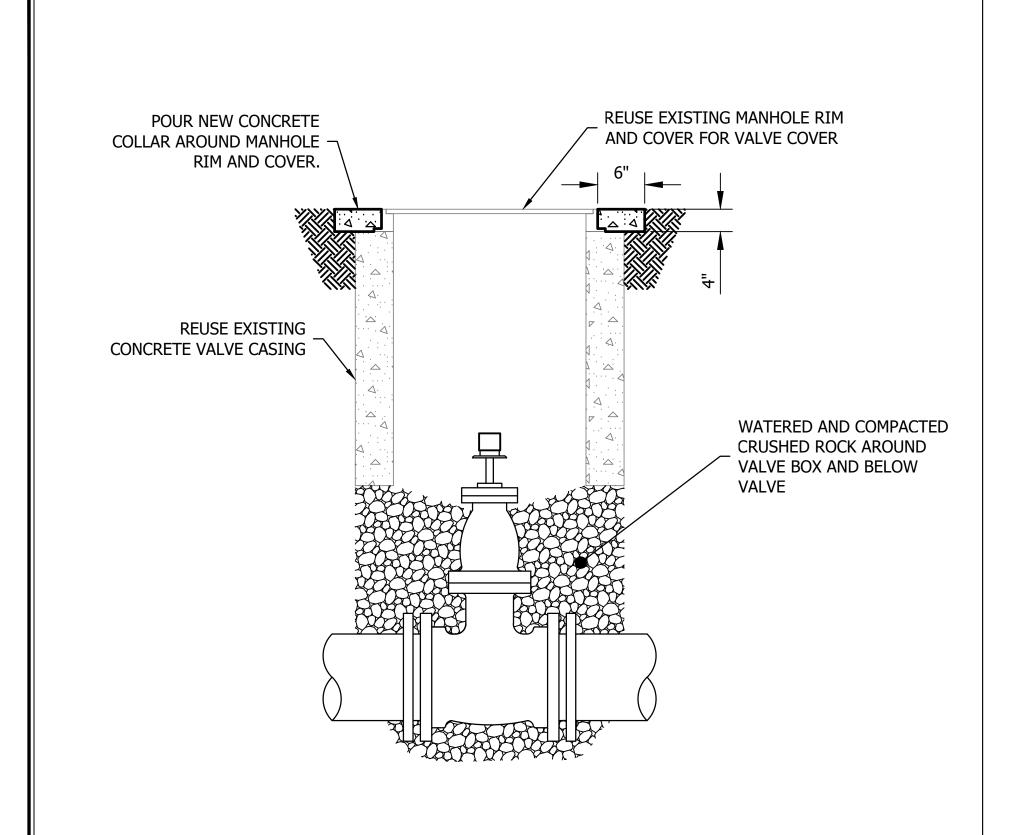
SUN LAKES STATE PARK

SEWER LIFT STATION REPLACEMENT

LIFT STATION DETAILS 1



SHEET 11 OF 20

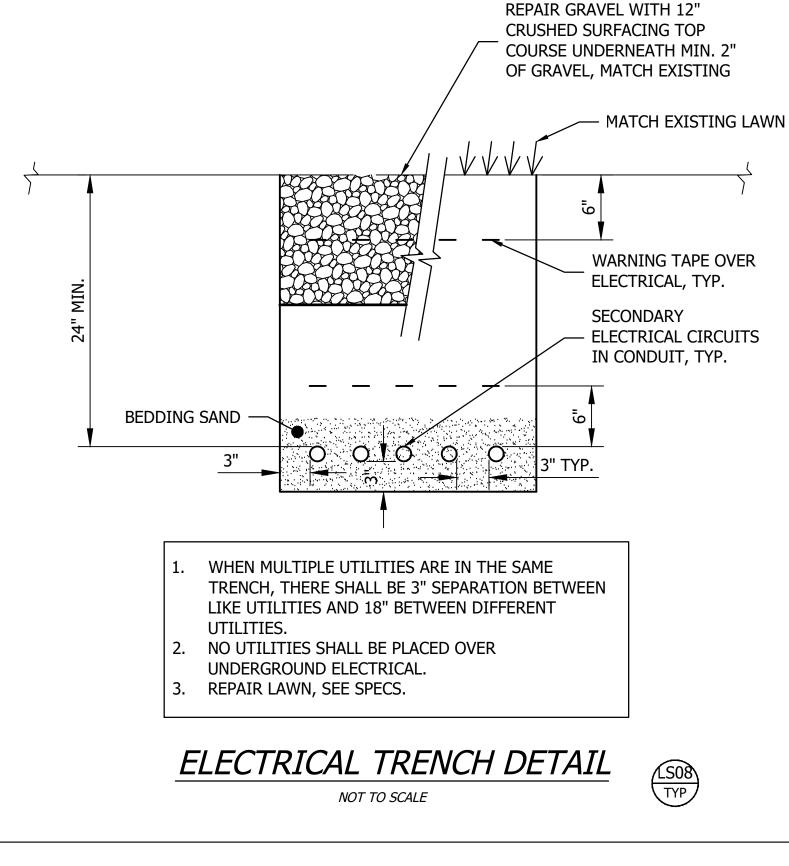


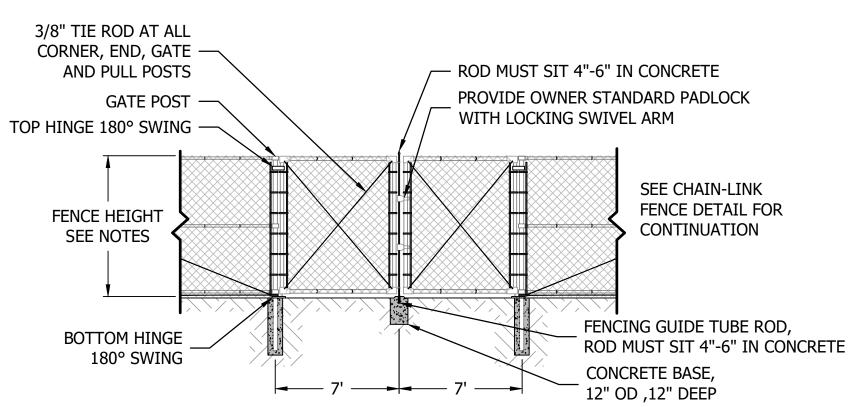
1. ISOLATION VALVES 2" AND LARGER ARE TO BE NRS RESILIENT SEAT GATE VALVES MEETING AWWA C509 OR

ISOLATION VALVE INSTALLATION DETAIL

NOT TO SCALE

2. BACKFILL AROUND VALVE CASING SHALL BE COMPACTED USING A JUMPING JACK.

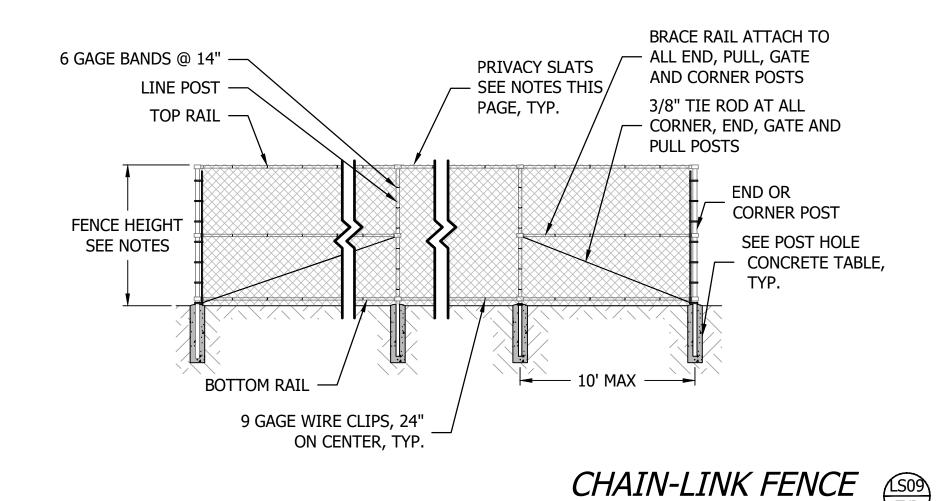




#### DOUBLE SWING GATE

NOT TO SCALE





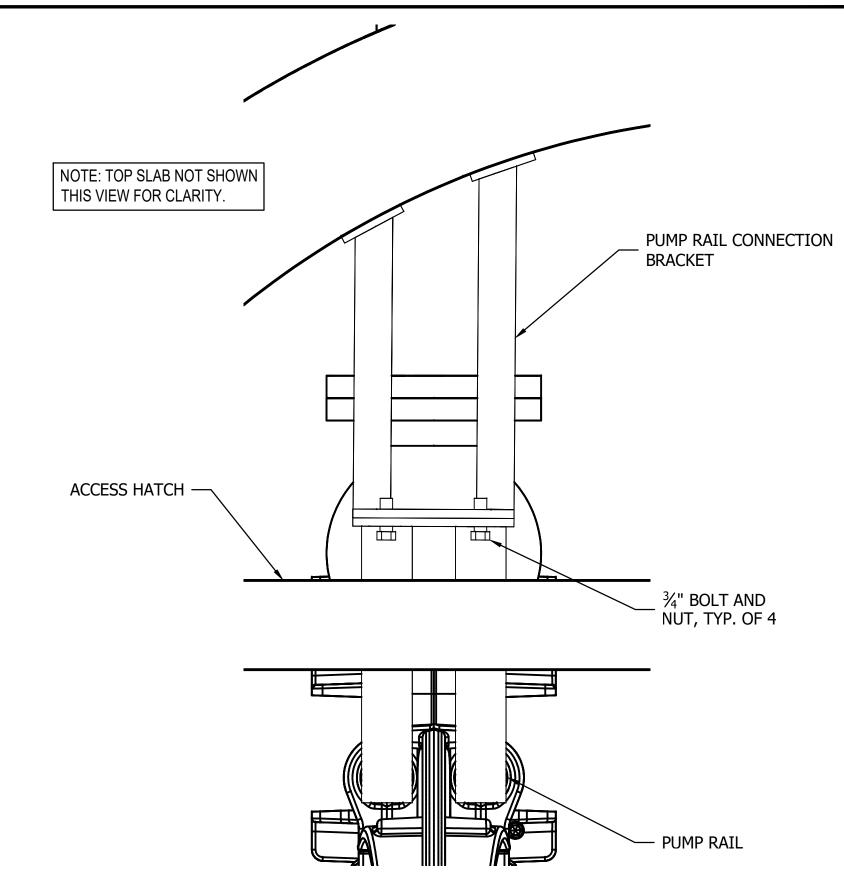
POS	POST HOLE CONCRETE*				
	GATE AND END POST	LINE POSTS			
MIN. DEPTH	60"	60"			
MIN. DIAMETER	24"	24"			
MIN. POST EMBEDMENT	54"	54"			
*FOOTINGS SIZED TO RESTRAIN PRIVACY SLAT FENCE					

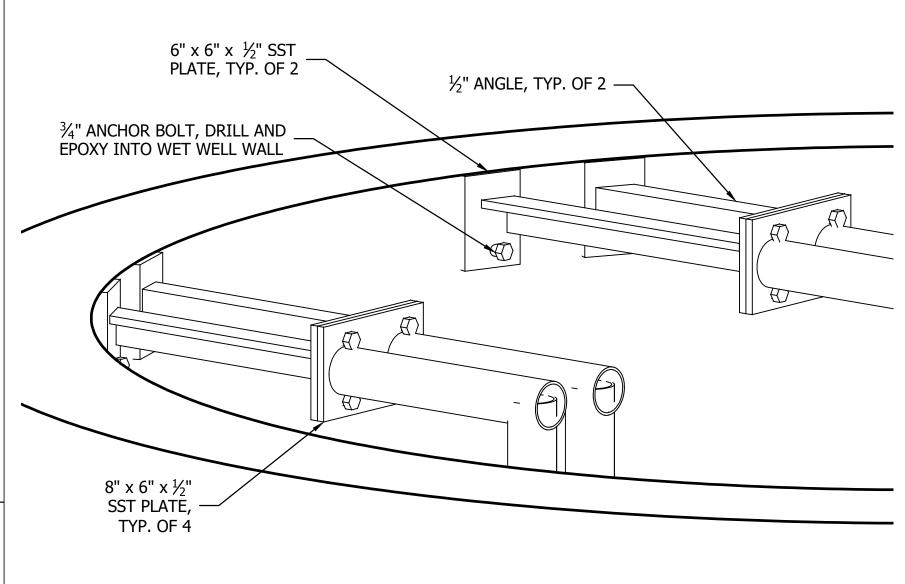
POST AI	ND RAIL SCHEDULE	
END, PULL, GATE, CORNER POSTS	LINE POSTS	TOP, MID AND BOTTOM RAIL
4" OD	2.875" OD	1.66" OD

LS09 TYP

NOT TO SCALE

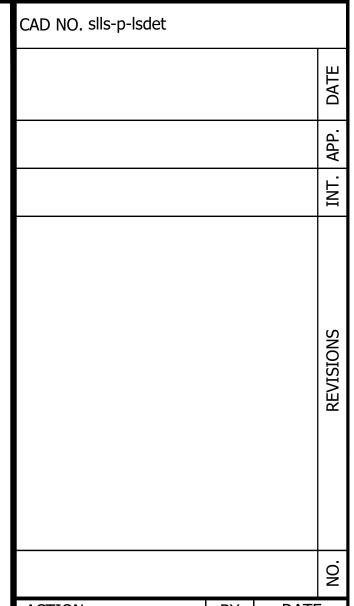
- NOTE: MINIMUM DEPTHS BASED ON IBC GRAVEL(GW) OR SANDY GRAVEL(GP) SOIL TYPES PER IBC TABLE
- 1804.2. CONCRETE FOR ALL FOOTINGS SHALL BE 4000 PSI CONCRETE.
- ALL CHAIN LINK FENCE SHALL BE VINYL COATED. PROVIDE VERTICAL PRIVACY SLATS WITH VERTICAL LOCKING FEATURE, NEUTRAL COLOR.





**OBLIQUE** 





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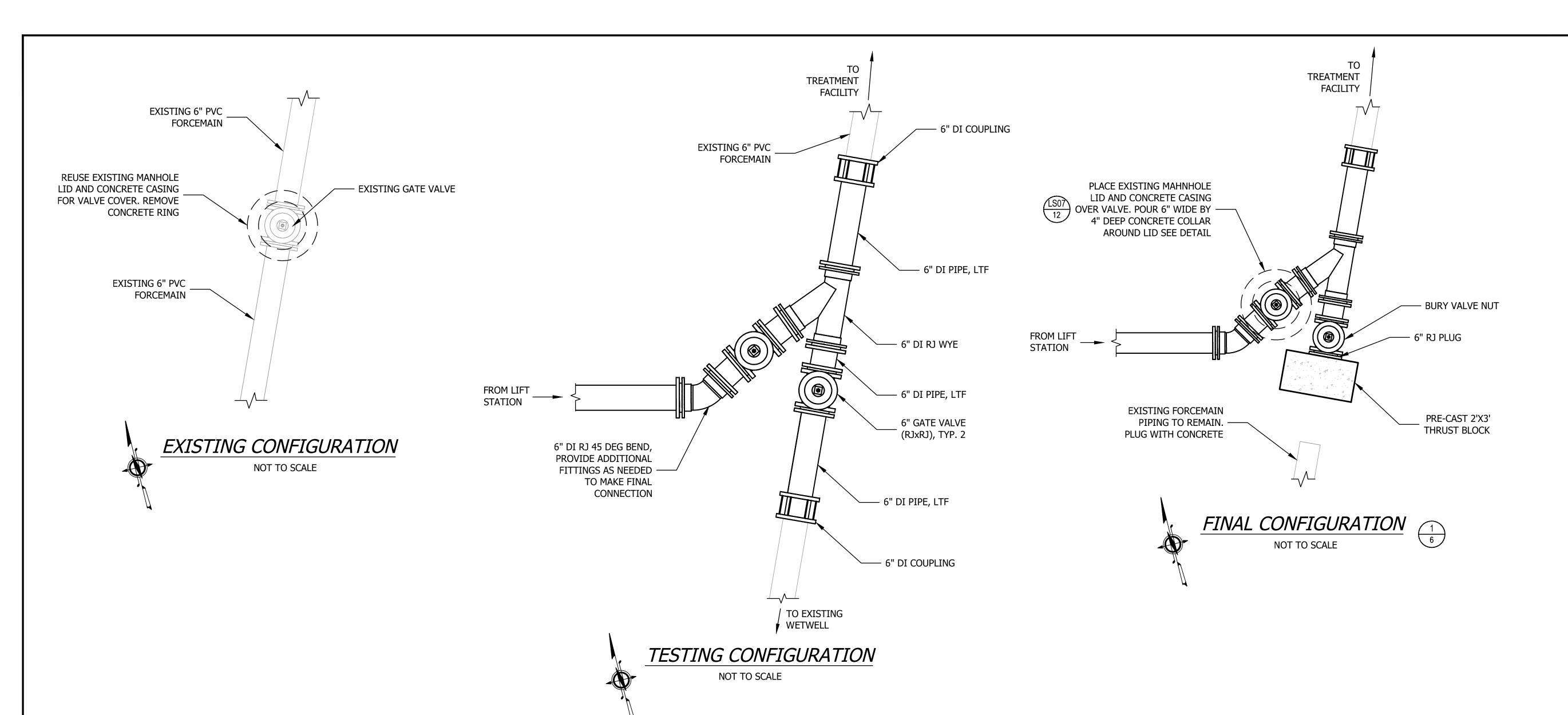
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SUN LAKES STATE PARK SEWER LIFT STATION REPLACEMENT

LIFT STATION DETAILS 2

SHEET 12 OF 20





#### 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. POTHOLE AND CONFIRM PRIOR TO ORDERING FITTINGS.
- 3. CONNECTION TO EXISTING FORCEMAIN SHALL OCCUR PRIOR TO COMPLETION OF THE NEW LIFT STATION SO THAT WHEN TESTING THE NEW LIFT STATION THE TEST WATER WILL BE PUMPED THROUGH THE FORCE MAIN. WHEN MAKING THE CONNECTION TO EXISTING CLOSE VALVE APPROX. 1350 LF FROM THE EXISTING WET WELL. THE FORCEMAIN (APPROX. 2500 GALLONS) SHALL BE DRAINED BACK TO THE WETWELL. SEWAGE SHALL BE REMOVED AND PROPERLY DISPOSED OF BEFORE ANY WORK MAY BE PERFORMED.

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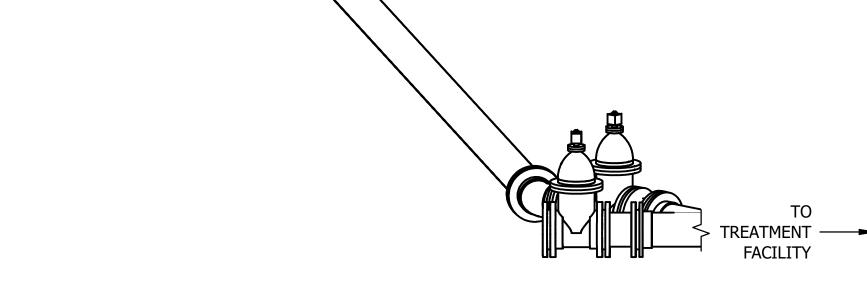
SUN LAKES STATE PARK

SEWER LIFT STATION REPLACEMENT

COMMISSION

FORCEMAIN CONNECTION DETAIL

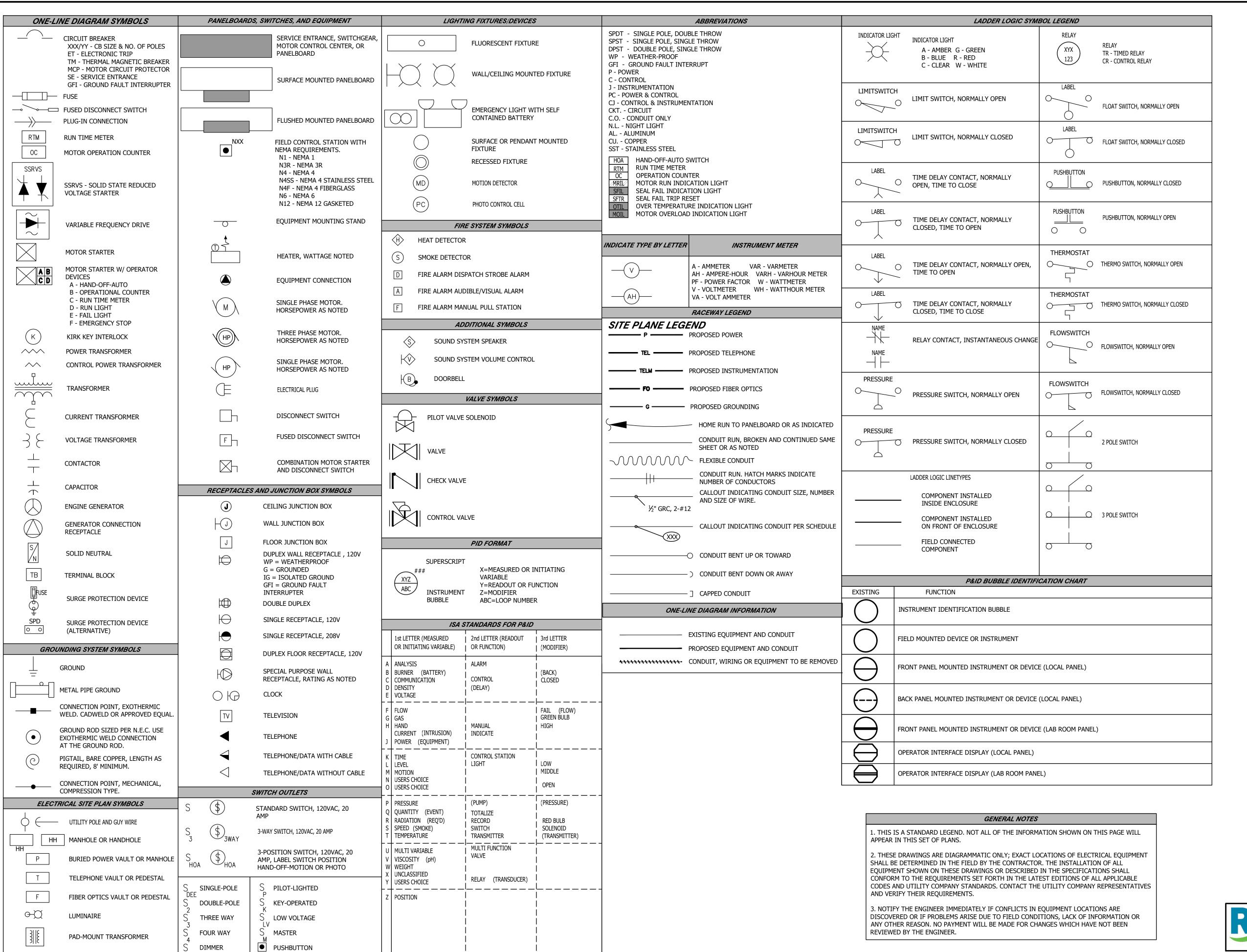
SHEET 13 OF 20



CONNECTION DETAIL OBLIQUE

NOT TO SCALE

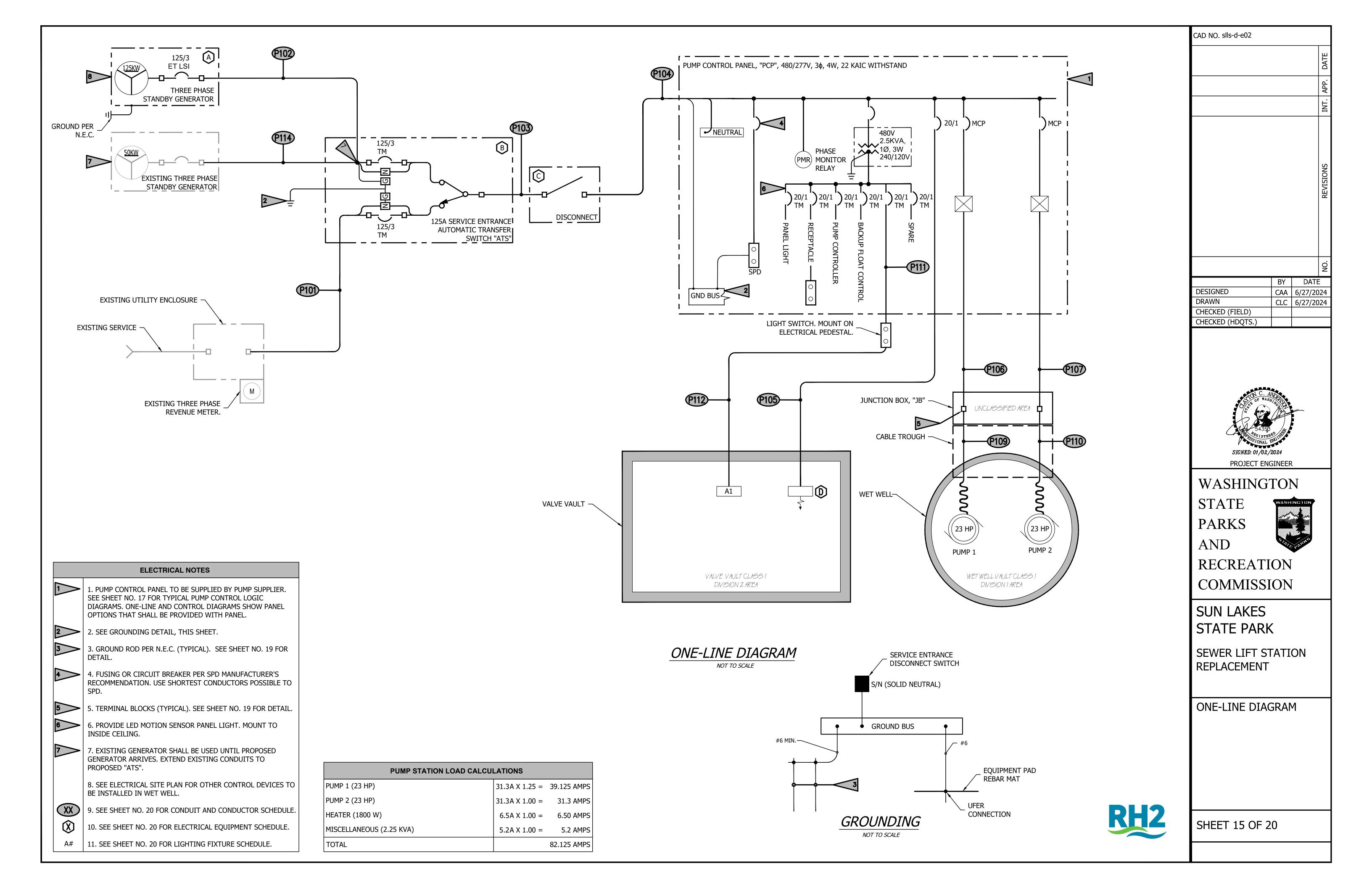


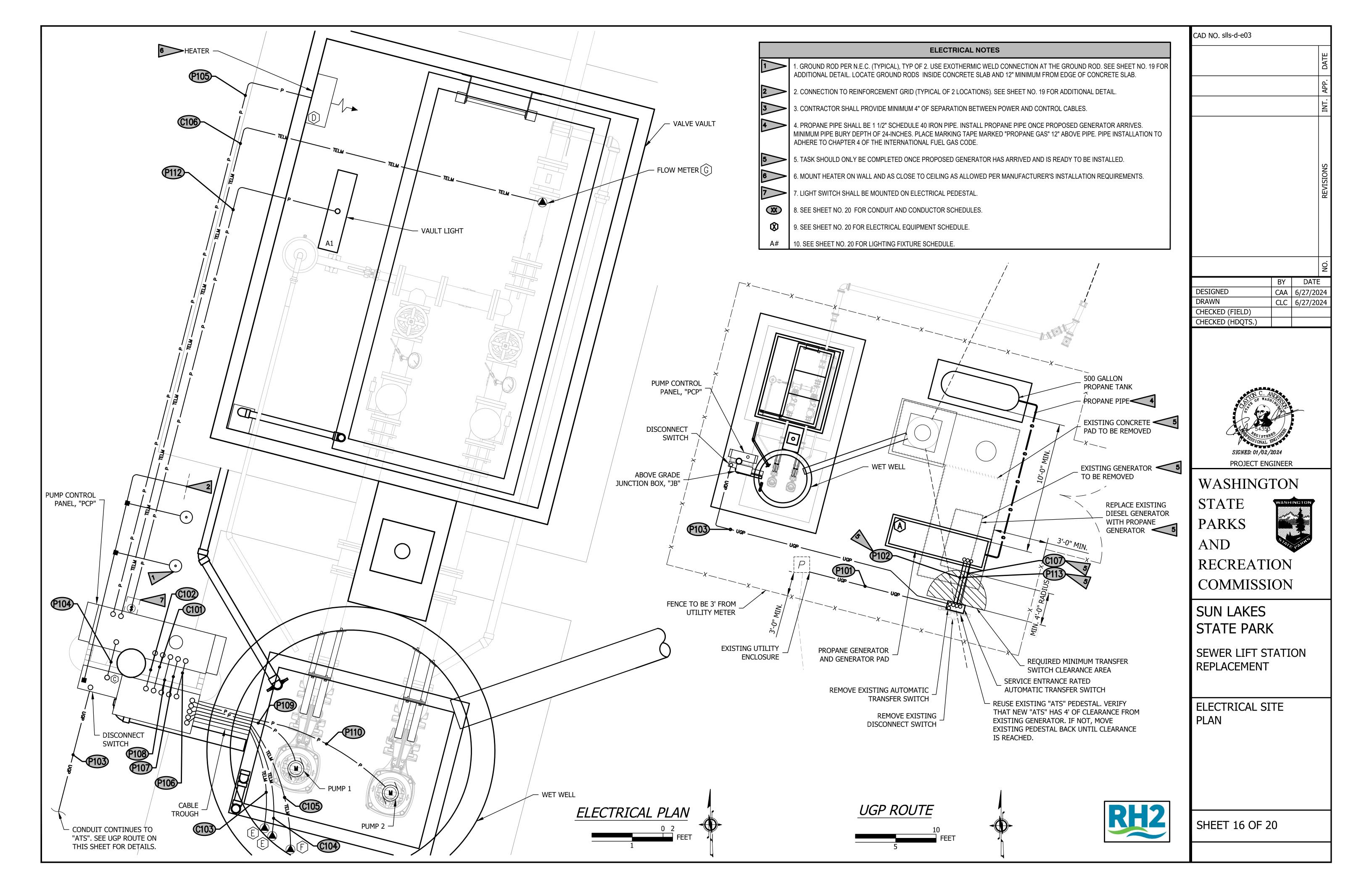


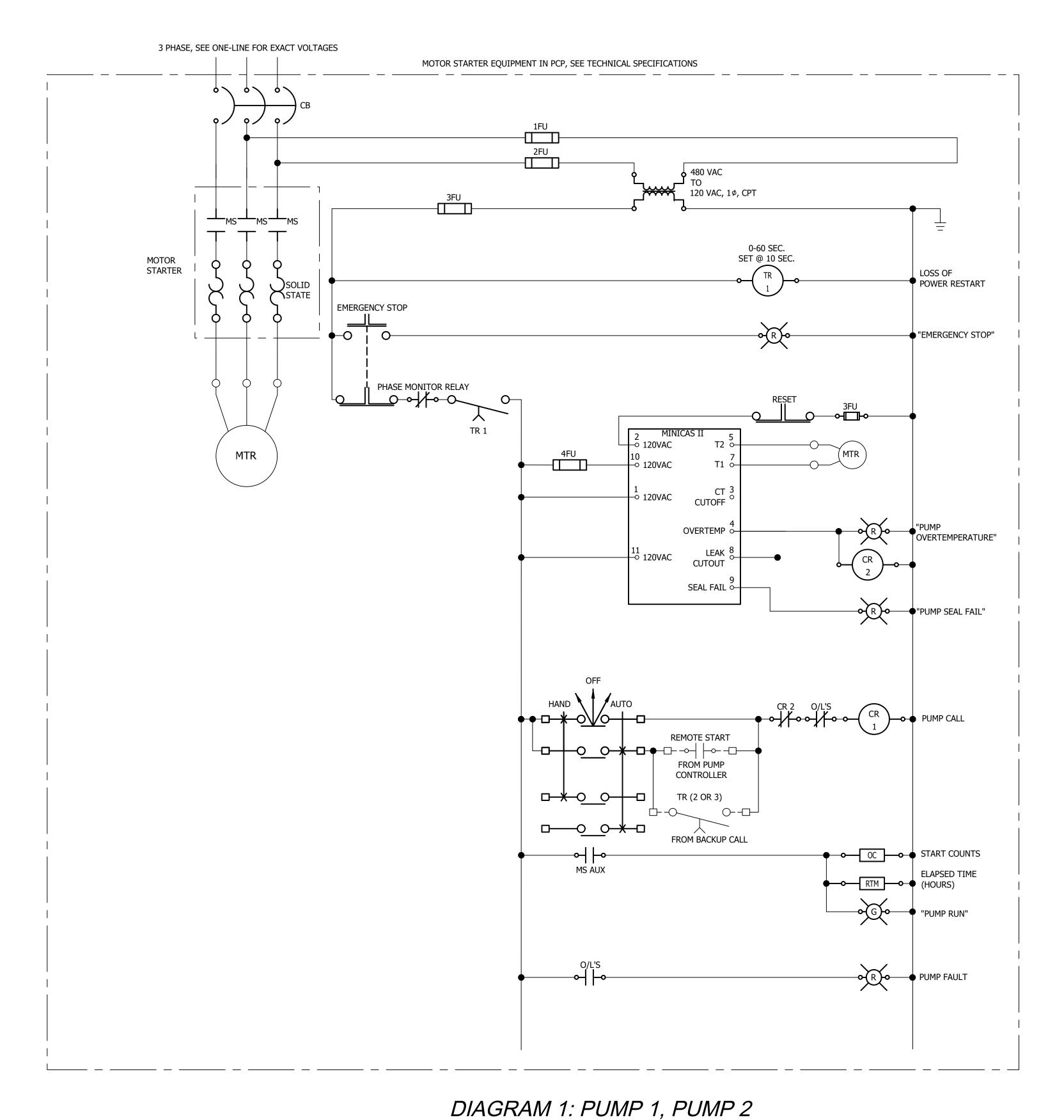
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SHEET 14 OF 20







NO SCALE

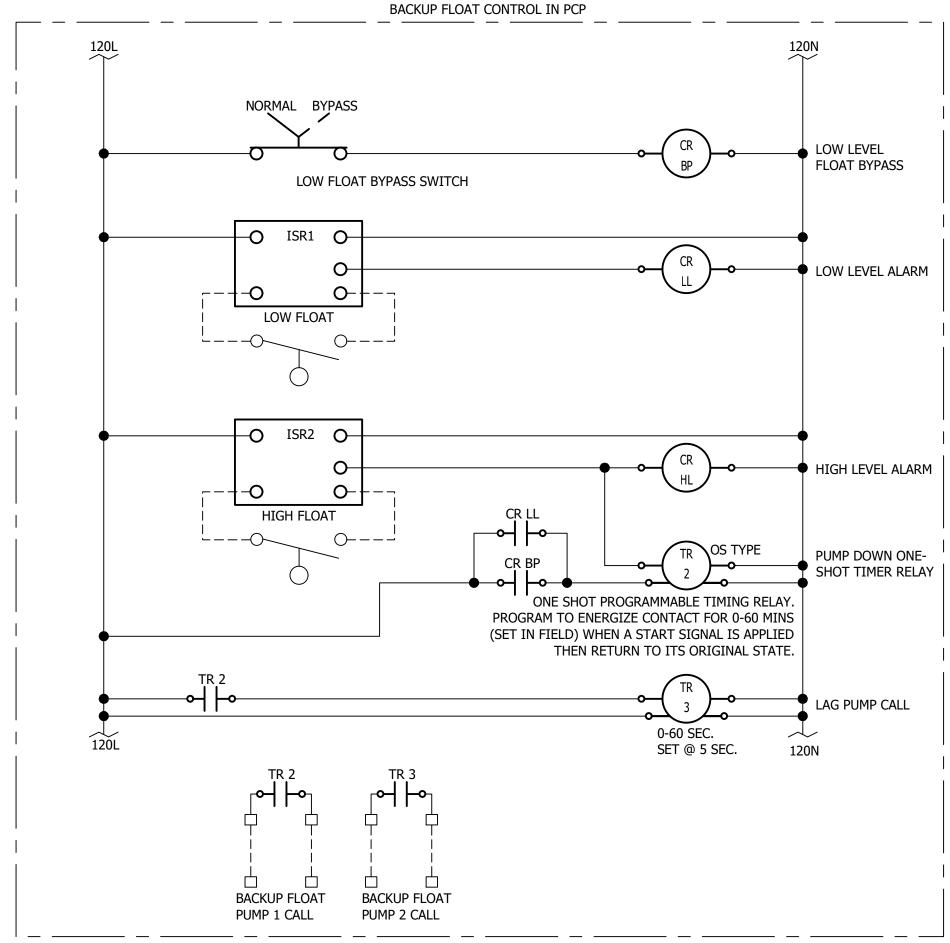


DIAGRAM 2: BACKUP FLOAT CONTROL LOGIC

NO SCALE

#### **ELECTRICAL NOTES**

SHALL BE PER PANEL MANUFACTURER STANDARDS INCLUDING ALL OPTIONS SHOWN (LIGHTS, SWITCHES, RESETS, LOCKOUTS,

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



BY DATE

CAA 6/27/2024

CLC 6/27/2024

CAD NO. slls-d-e04

**DESIGNED** DRAWN

CHECKED (FIELD)

CHECKED (HDQTS.)

WASHINGTON STATE PARKS AND RECREATION COMMISSION

SUN LAKES STATE PARK

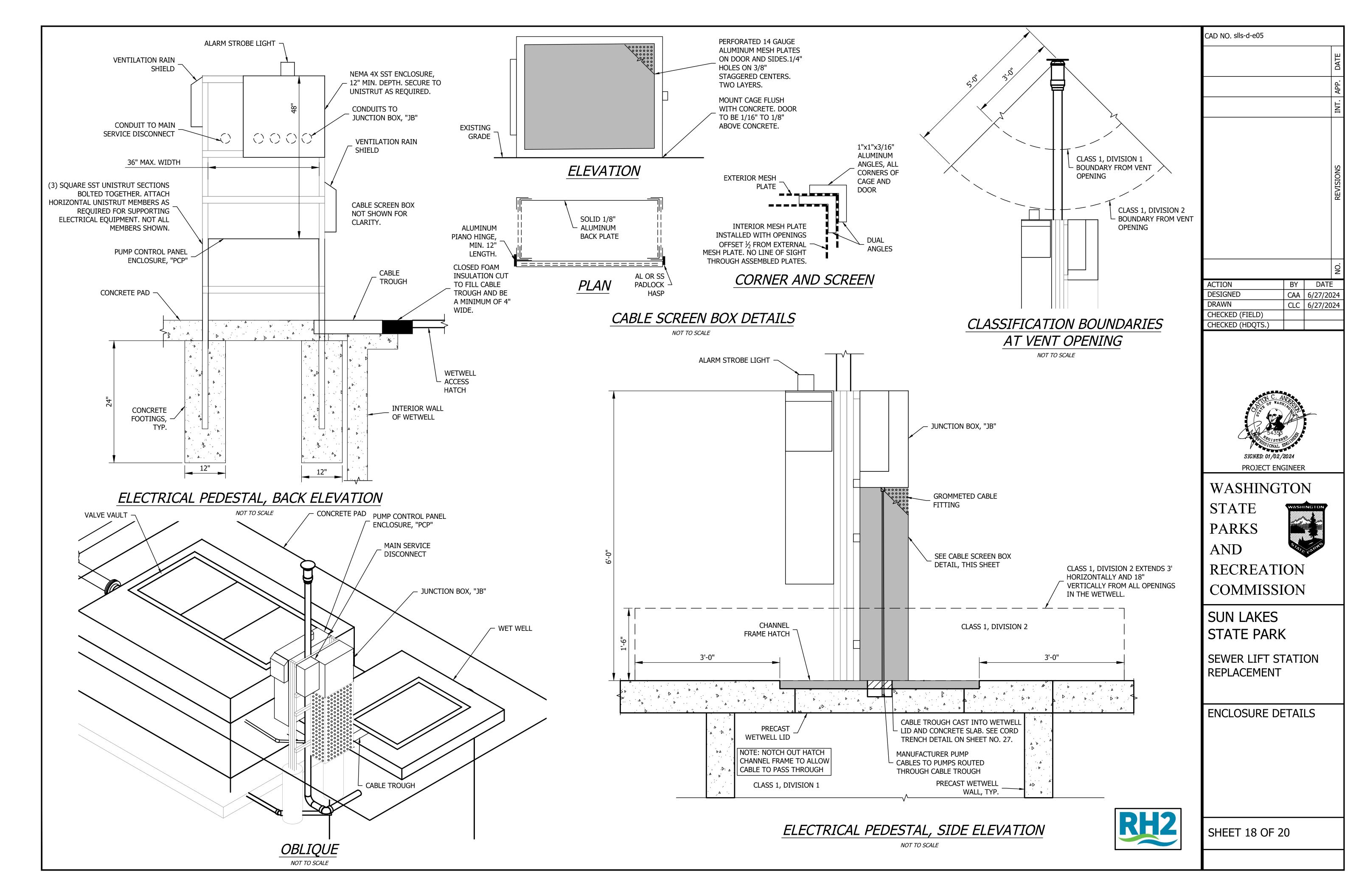
SEWER LIFT STATION REPLACEMENT

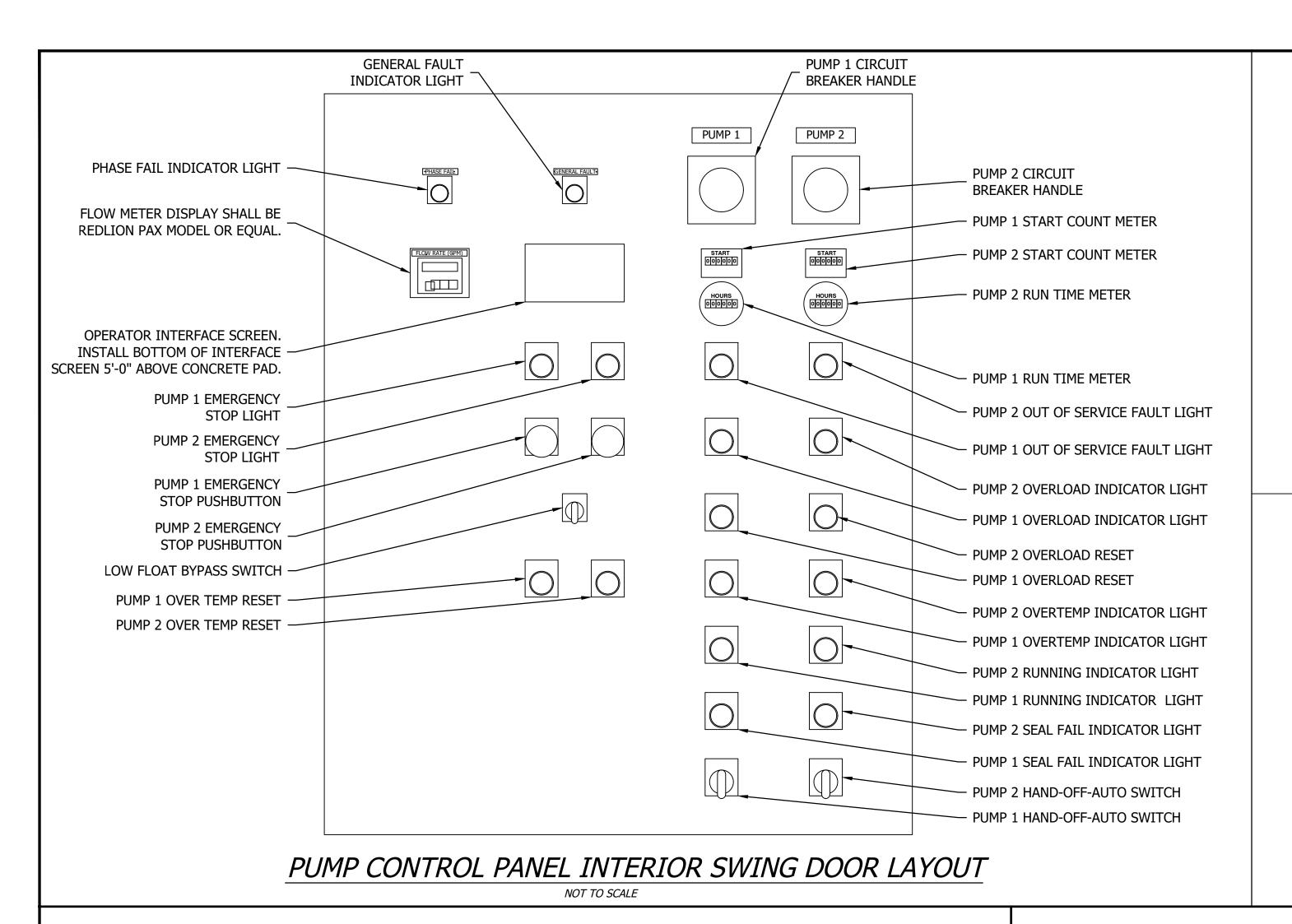
CONTROL LOGIC DIAGRAM

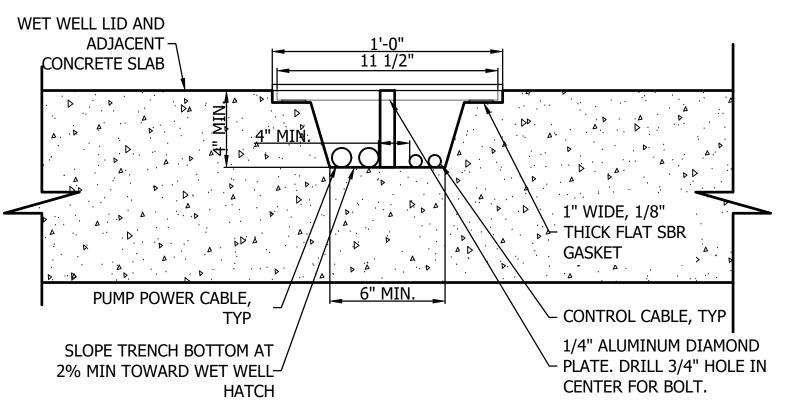
SHEET 17 OF 20

1. CONTROL LOGIC DIAGRAMS 1 AND 2 TYPICAL STANDARD BACKUP FLOAT AND PUMP STARTER DIAGRAMS. FINAL LOGIC ETC.).

ACTIVATE STROBE.

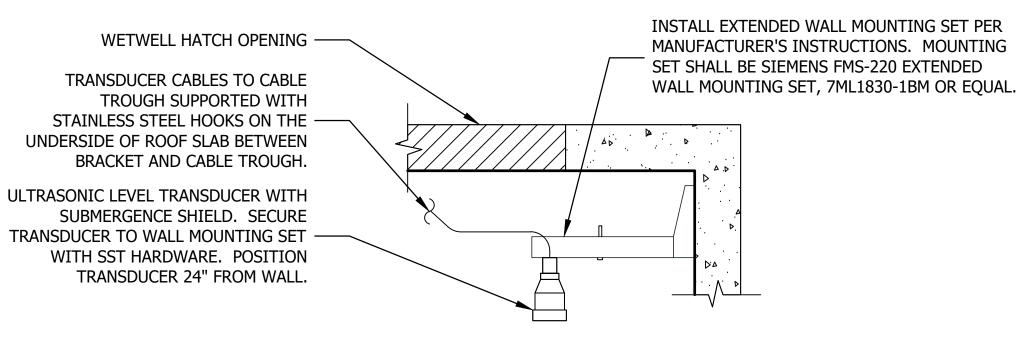






#### WETWELL CABLE TROUGH DETAIL

NOT TO SCALE



WETWELL LEVEL TRANSDUCER DETAIL

NOT TO SCALE



BY DATE

CAA 6/27/2024

CLC 6/27/2024

CAD NO. slls-d-e06

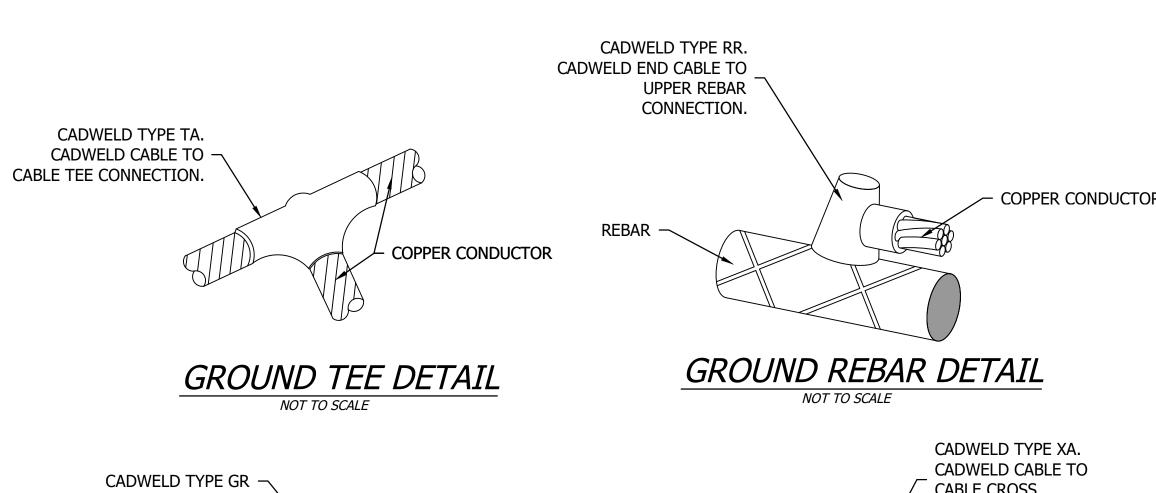
DESIGNED

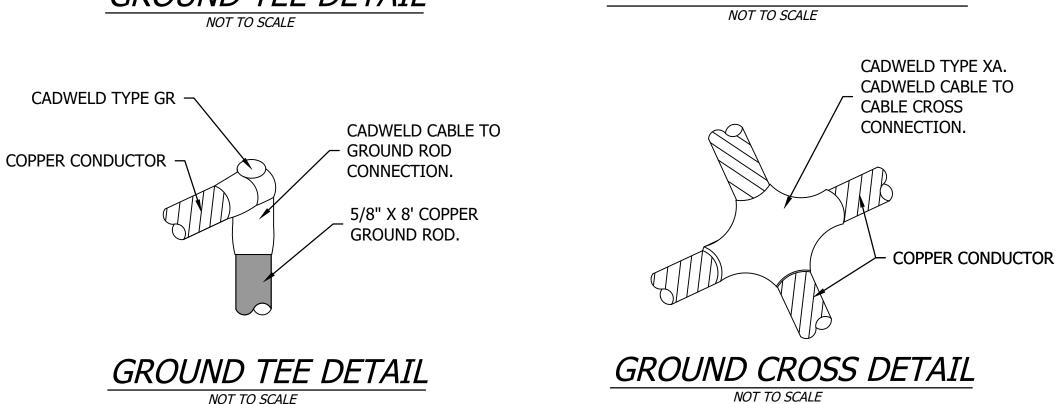
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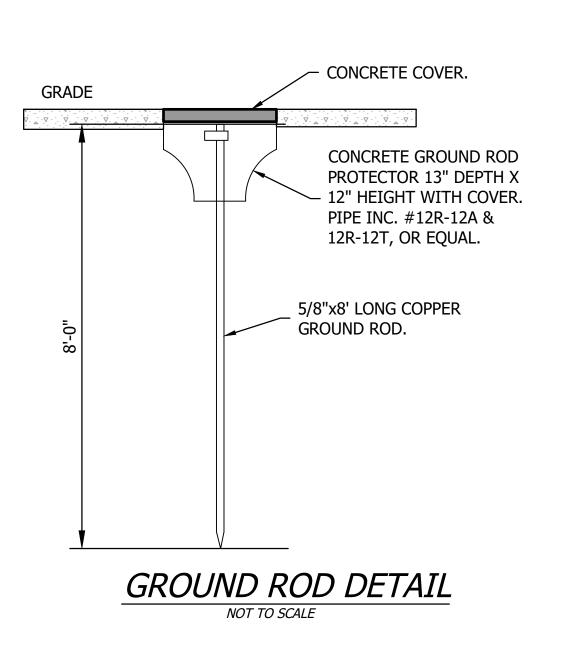
DRAWN

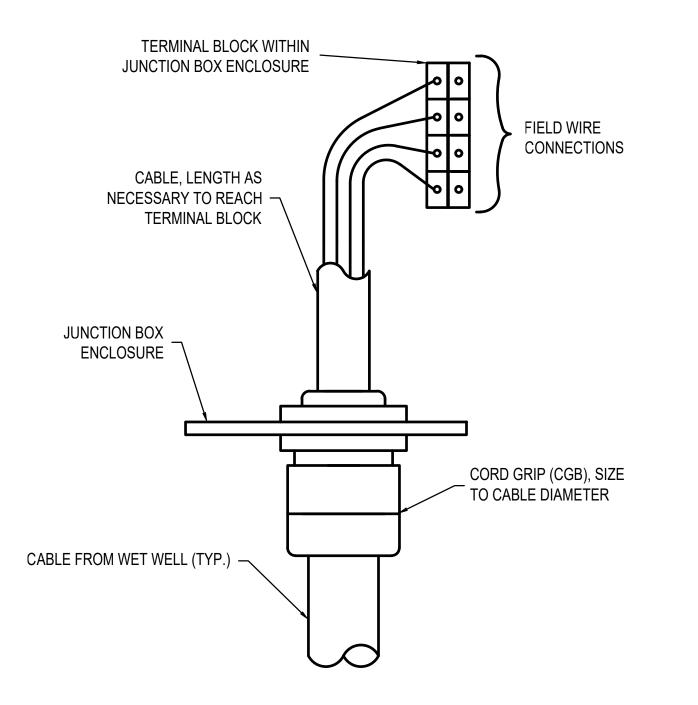
PROJECT ENGINEER





NOT TO SCALE





CABLE TRANSITION DETAIL (TYPICAL) NOT TO SCALE



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SUN LAKES STATE PARK

SEWER LIFT STATION REPLACEMENT

ELECTRICAL DETAILS

SHEET 19 OF 20

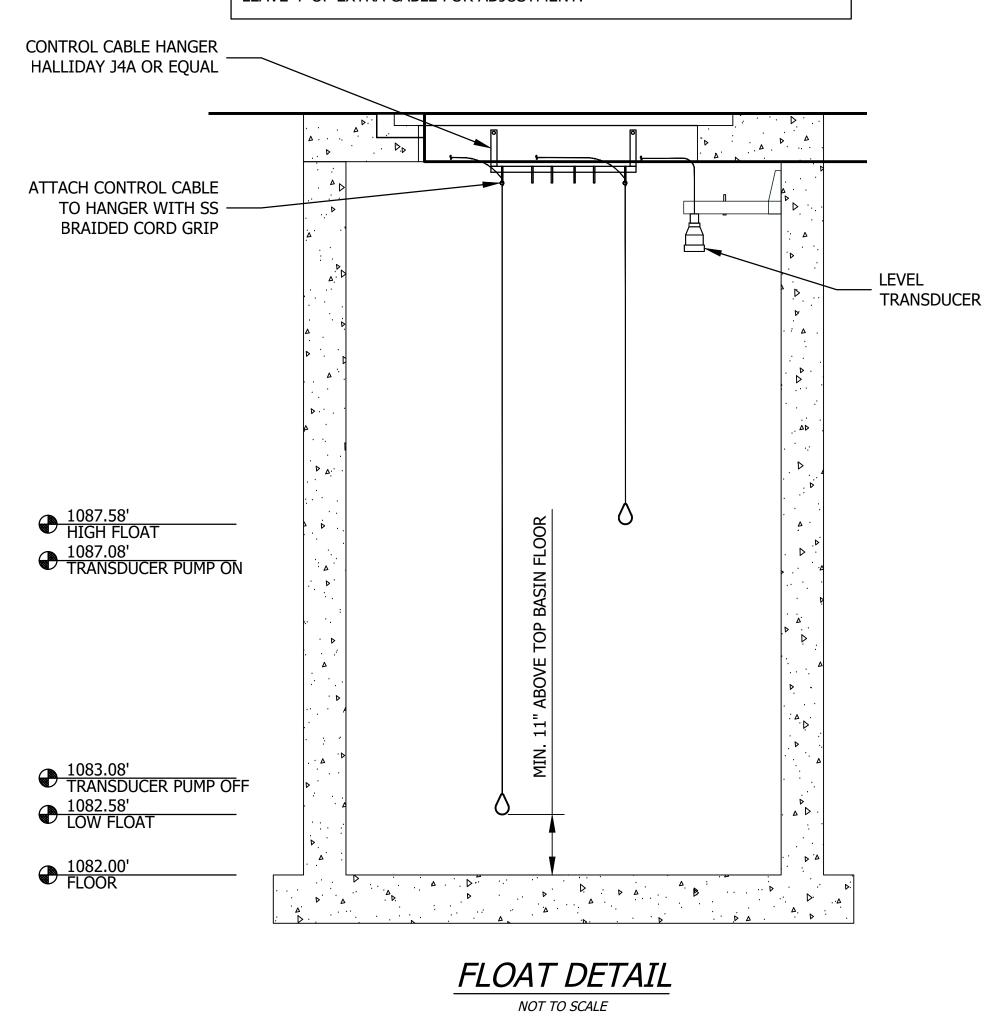
	POWER CONDUIT AND CONDUCTOR SCHEDULE					
CIRCUIT	SOURCE	DESTINATION	TRADE SIZE	(QUANTITY) CONDUCTORS	NOTES	
P101	EXITING UTILITY ENCLOSURE	AUTOMATIC TRANSFER SWITCH, "ATS"	2"	(3) - #1, (1) - #1 NEUTRAL		
P102	STANDYBY GENERATOR	AUTOMATIC TRANSFER SWITCH, "ATS"	2"	(3) - #1, (1) - #1 NEUTRAL, (1) -#6 GND	INSTALLED ONCE NEW GENERATOR ARRIVES	
P103	AUTOMATIC TRANSFER SWITCH, "ATS"	DISCONNECT SWITCH	2"	(3) - #1, (1) - #1 NEUTRAL, (1) -#6 GND		
P104	DISCONNECT SWITCH	PUMP CONTROL PANEL, "PCP"	2"	(3) - #1, (1) - #1 NEUTRAL, (1) -#6 GND		
P105	PUMP CONTROL PANEL, "PCP"	VALVE VAULT HEATER	3/4"	(2) - #12, (1) -#12 GND		
P106	PUMP CONTROL PANEL, "PCP"	JUNCTION BOX, "JB"	3/4"	(3) - #8, (1) -#10 GND	PUMP POWER	
P107	PUMP CONTROL PANEL, "PCP"	JUNCTION BOX, "JB"	3/4"	(3) - #8, (1) -#10 GND	PUMP POWER	
P108	PUMP CONTROL PANEL, "PCP"	JUNCTION BOX, "JB"	3/4"	(6) - #14, (1) -#14 GND	PUMP SEAL FAILURE/OVERTEMP ALARM	
P109	JUNCTION BOX, "JB"	PUMP 1	_	MANUFACTURER CABLE	IN CABLE TRENCH	
P110	JUNCTION BOX, "JB"	PUMP 2	_	MANUFACTURER CABLE	IN CABLE TRENCH	
P111	PUMP CONTROL PANEL, "PCP"	VAULT LIGHT SWITCH	3/4"	(2) - #12, (1) -#12 GND	IN CABLE TRENCH	
P112	VAULT LIGHT SWITCH	VAULT LIGHT	3/4"	(2) - #12, (1) -#12 GND		
P113	AUTOMATIC TRANSFER SWITCH, "ATS"	STANDYBY GENERATOR	3/4"	(2) - #12, (1) -#12 GND	GENERATOR BATTERY CHARGER. INSTALLED ONCE NEW GENERATOR ARRIVES	
P114	EXISTING STANDYBY GENERATOR	AUTOMATIC TRANSFER SWITCH, "ATS"	N/A	(3) - #1, (1) - #1 NEUTRAL, (1) -#6 GND	EXTEND EXISTING CONDUIT TO NEW "ATS"	

	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		
C107	AUTOMATIC TRANSFER SWITCH, "ATS"	STANDYBY GENERATOR	3/4"		GENERATOR CALL. INSTALLED ONCE NEW GENERATOR ARRIVES	

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	TSWXP24 4LVCDP	1	47 WATT

	ELECTRICAL EQUIPMENT AND INSTRUMENTATION SCHEDULE					
ITEM DESCRIPTION		MANUFACTURER	MODEL NO.			
<b>(A)</b>	STANDBY GENERATOR	SEE SPECIFICATIONS	SEE SPECIFICATIONS			
⊕	SERVICE ENTRANCE AUTOMATIC TRANSFER SWITCH, "ATS"	SEE SPECIFICATIONS	SEE SPECIFICATIONS			
(G)	DISCONNECT, 480V, 200A, NEMA 3R, PAD-LOCKABLE	SQUARE D	HU364RB OR EQUAL			
☺	EXPLOSION-PROOF HEATER, 1 PHASE, 1800 WATT, 277V. WALL MOUNT HARDWARE, BUILT-IN THERMOSTAT	QMARK	ICG18071 OR EQUAL			
(E)	WET WELL LEVEL FLOAT SWITCH	SEE SPECIFICATIONS	SEE SPECIFICATIONS			
<del>(</del> <del>-</del>	ULTRASONIC TRANSDUCER LEVEL TRANSMITTER	SEE SPECIFICATIONS	SEE SPECIFICATIONS			
<b>ⓒ</b>	FLOW METER	SEE SPECIFICATIONS	SEE SPECIFICATIONS			

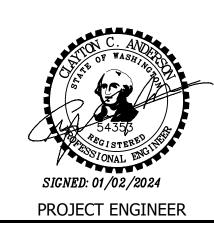
TYPICAL NOTE FOR ALL WETWELLS HIGH FLOAT AND PUMP ON LEVELS MAY BE ADJUSTED ONCE ACCURATE INVERT ELEVATIONS OF INCOMING PIPES HAVE BEEN ESTABLISHED. CONTRACTOR TO LEAVE 4' OF EXTRA CABLE FOR ADJUSTMENT.





CAD NO. slls-d-e07

	BY	DATE
DESIGNED	CAA	6/27/2024
ORAWN	CLC	6/27/2024
CHECKED (FIELD)	·	
CHECKED (HDQTS.)		



WASHINGTON STATE PARKS AND RECREATION COMMISSION

SUN LAKES STATE PARK

SEWER LIFT STATION REPLACEMENT

ELECTRICAL SCHEDULES

SHEET 20 OF 20