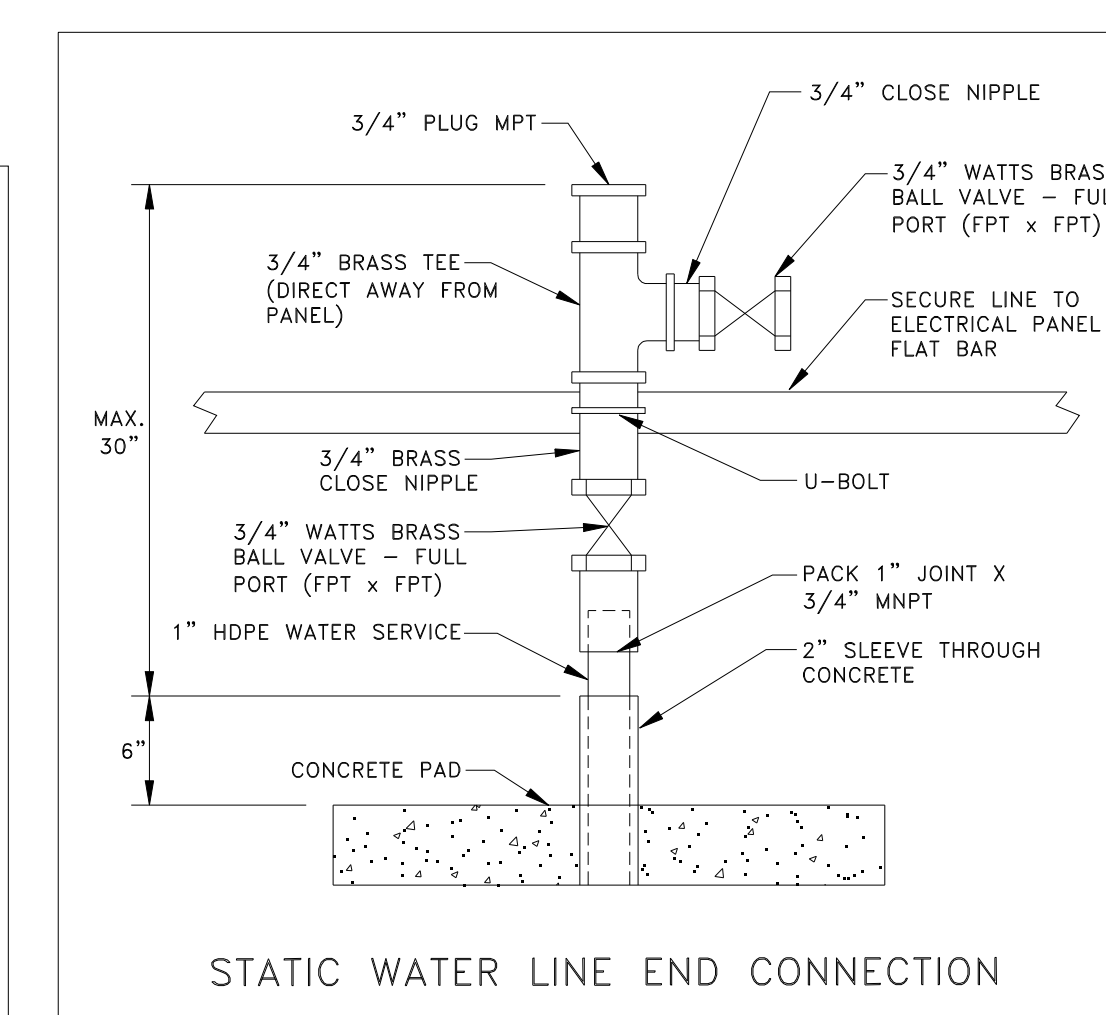
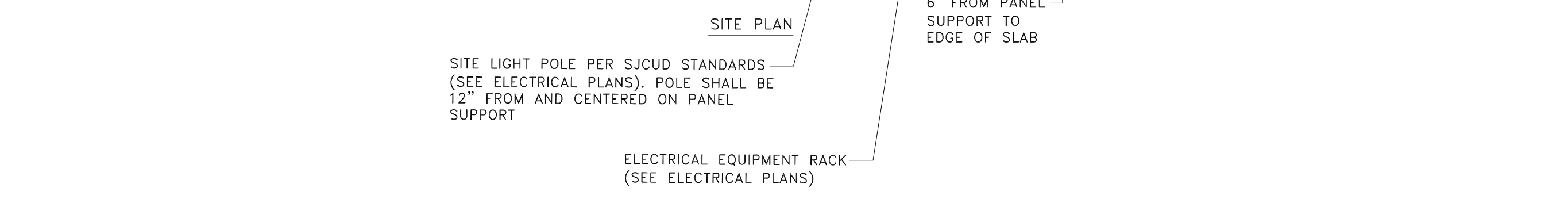
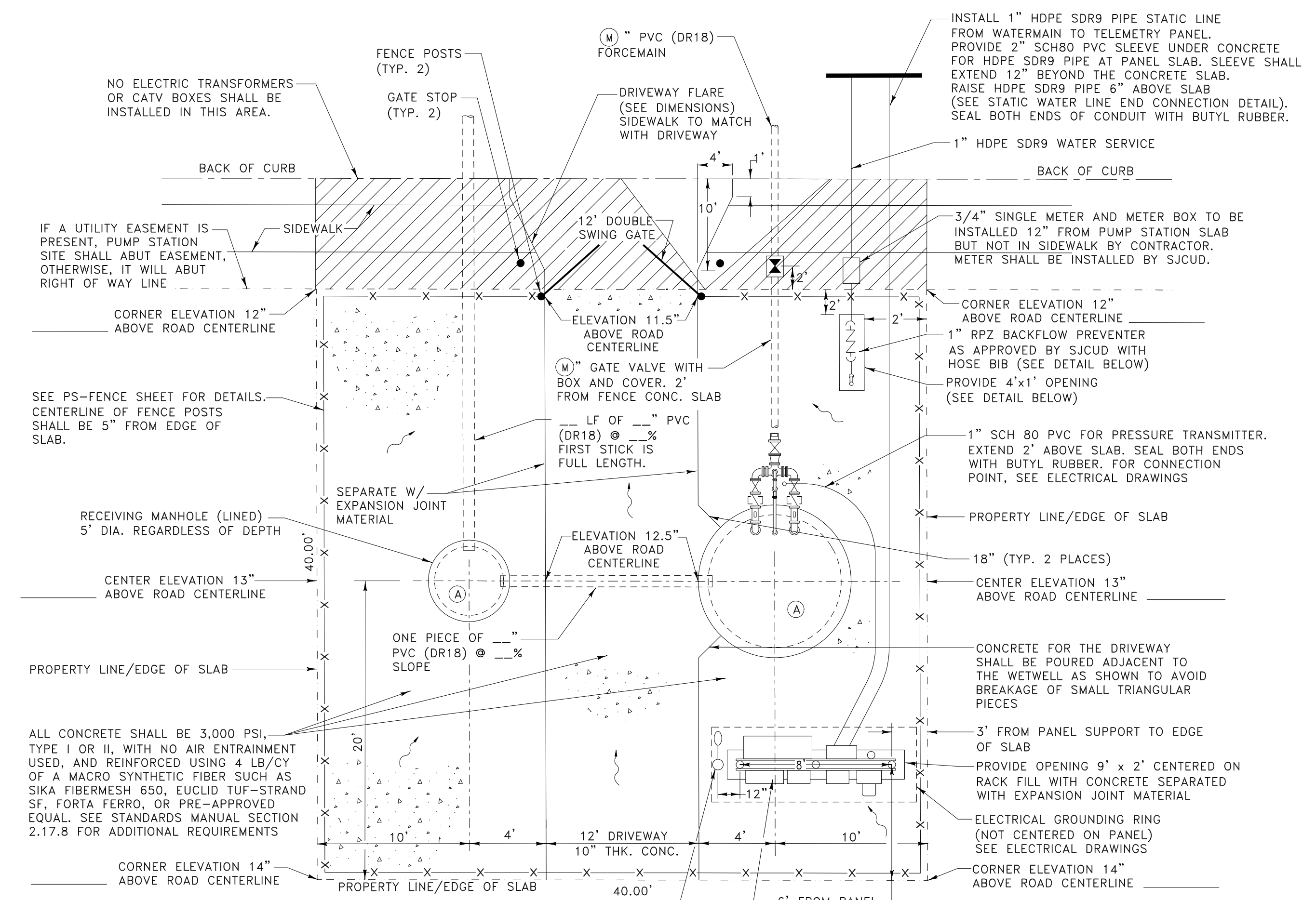


LIFT STATION	
STATION ELEVATIONS	
(A) TOP = ROAD CENTERLINE + 13"	
(B) GRADE	
(C) INFLUENT INVERT	
(D) HIGH WATER ALARM (C - 0.5')	
(E) LAG PUMP ON	
(F) LEAD PUMP ON	
(G) ALL PUMPS OFF	
(H) LOW WATER ALARM (G - 0.5')	
(I) SUCTION PIPE BOTTOM (K + 1.50')	
(J) TOP OF GROUT (K + 1.00')	
(K) WETWELL BOTTOM	
STATION INFORMATION	
(L) PUMP DISCHARGE PIPING (3" MIN)	
(M) FORCEMAIN PIPING (3" MIN)	
(N) TOP SLAB THICKNESS (8" MIN)	
(P) SIDE WALL THICKNESS (8" MIN)	
(Q) BOTTOM SLAB THICKNESS (12" MIN)	
(R) BOTTOM SLAB DIAMETER (8'-4" MIN)	
(S) WET WELL DIAMETER (6' MIN)	
(T) EMERGENCY SUCTION PIPING (4" MIN)	4"
PUMP INFORMATION	
NUMBER OF PUMPS	2
PUMP MANUFACTURER	FLYGT
PUMP MODEL	IMPELLER ID
DISCHARGE	MOTOR RPM
HP	VOLTS 3 PHASE 60 HZ
MANIFOLD COND.	GPM AT FT.TOH
RUN-OUT COND.	GPM AT FT.TOH
PUMP ACCESS HATCH SIZE	x
(MUST ACCOMMODATE FLYGT MIX-FLUSH VALVE)	
ELECTRICAL SERVICE AMPS (100 or 200)	

MECHANICAL EQUIPMENT SCHEDULE	
1	CHECK VALVE, SWING-TYPE LEVER FACING OUTSIDE, LEVER AND SPRING OPERATED, IRON BODY
2	PLUG VALVE, CAST IRON BODY, (SEE NOTE 9)
3	316 SS TEE (QTY: 2)
4	316 SS SHORT RADIUS 90° BEND (QTY: 4)
5	316 SS 45° BEND (QTY: 2) (FOR PUMPS 3" AND LARGER)
6	316 SS PIPE (SCH 40)
7	DUCTILE IRON PUMP BASE (PROVIDED BY PUMP MANUFACTURER)
8	INFLUENT PIPE (SEE PLANS)
9	PRE-CAST CONCRETE WETWELL
10	FLYGT PUMP (AS APPROVED BY SJCUD)
11	ALUMINUM WETWELL ACCESS COVER (OPENING PER PUMP MANUFACTURER)
12	316 SS GUIDE RAILS
13	FLOATS AND PUMP CONTROLS PROVIDED BY PUMP MANUFACTURER AS SPECIFIED IN ELECTRICAL DETAILS
14	PUMP MOTOR CABLE
15	ODOR CONTROL DEVICE
16	316 SS CHAIN HOLDER
17	1" 316 SS BLOW OFF LINE TO WETWELL
18	1/4" 316 SS CHAIN



- NOTES:
- ACCESS COVER FOR THE WETWELL SHALL BE 1/4" ALUM. TREAD PLATE WITH STAINLESS STEEL HARDWARE, COVER SHALL BE PROVIDED WITH LIFTING HANDLE, LOCKING HASP AND SAFETY LATCH TO HOLD COVERS OPEN, OPENING IN WETWELL SLAB AS PER MANUFACTURER'S SPECIFICATIONS.
 - CONCRETE SHALL BE 3,000 PSI AND REINFORCED AS SHOWN ON THE SITE PLAN. CONCRETE DELIVERY TICKETS SHALL BE PROVIDED TO THE SJCUD INSPECTOR.
 - "J" BOLT MOUNTING HOLE AND CONDUIT HOLES SHALL BE CORE DRILLED IN THE FIELD AS PER SHOP DRAWINGS OR ACTUAL FIELD REQUIREMENTS.
 - CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF PRECAST WETWELL. SHOP DRAWINGS SHALL INCLUDE ALL NECESSARY STRUCTURAL AND FLOTATION CALCULATIONS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ELECTRICAL POWER TO THE PUMPING STATION. THREE PHASE POWER IS REQUIRED. THIS WORK IS TO BE COORDINATED WITH ELECTRIC PROVIDER.
 - THE INTERIOR OF THE WET WELL AND RECEIVING MANHOLE SHALL BE COATED WITH LINER BY APPROVED MANUFACTURER.
 - A LIGHTNING ARRESTER, SURGE SUPPRESSOR, AND AUDIBLE ALARM SHALL BE SUPPLIED AND INSTALLED BY THE "SYSTEM" SUPPLIER.
 - THE SURFACE OF THE WET WELL SHALL FIRST BE PREPARED BY GROUTING THE WET WELL AS REQUIRED TO OBTAIN A SMOOTH SURFACE. THE COATING SHALL BE WARRANTED FOR A MINIMUM OF 10 YEARS FOR MATERIAL AND WORKMANSHIP.
 - PLUG VALVE OPERATOR SHALL BE MOUNTED PARALLEL TO GROUND AND FACE OUTWARD. WHEN OPEN, PLUG SHALL BE IN THE TOP OF THE VALVE BODY.

- PLUG VALVE SEAT SHALL BE INSTALLED ADJACENT TO CHECK VALVE REGARDLESS OF FLOW ARROW ON VALVE.
- RPZ BACKFLOW PREVENTER PIPING ABOVE GRADE SHALL BE THREADED BRASS WITH BRASS OR STAINLESS STEEL FITTINGS AND VALVES.
- SITE GRADING SHALL PROVIDE FOR DRAINAGE OF WATER TO THE DRIVEWAY AND TO THE STREET.
- SIZES SHOWN IN "STATION INFORMATION" ABOVE ARE MINIMUMS AND MAY NEED TO BE LARGER BASED ON SPECIFIC SITE DESIGN.
- ALL NON-STAINLESS STEEL PIPING AND FITTINGS SHOULD BE PAINTED FOREST GREEN (OIL BASED).
- ONE 2" 316SS SUPPORT SHALL BE INSTALLED UNDER EACH PLUG VALVE. (3 TOTAL)
- ALL PIPE SHALL HAVE FLAT FACE FLANGES AND USE FULL CIRCLE GASKETS.
- ALL 316SS PIPING SHALL BE SCHEDULE 40.
- ROTATE THE PRESSURE TRANSMITTER MOUNTING TEE (BOTTOM TEE) SUCH THAT THE FUTURE PRESSURE TRANSMITTER DISPLAY INSTALLED BY SJCUD FACES NORTH.
- ALL MOUNTING HARDWARE SHALL BE 316 STAINLESS STEEL INCLUDING, BUT NOT LIMITED TO, NUTS, BOLTS, BRACKETS.
- ALL HARDWARE SHALL BE HAND-TIGHTENED, DO NOT USE IMPACT WRENCHES.
- IF PUMP DISCHARGE PIPING IS 3", A 3"x 4" REDUCER IS REQUIRED, OTHERWISE, TEE SHALL BE (L) x 4".

NO.	BY	DATE	SYMBOL	REVISIONS
1.	SJCUD	2020		REVISION 1

DESIGNER:	DESIGN ENGINEER
DRAWN BY:	
DATE:	
CHECKED BY:	FLORIDA REGISTRATION NO.
DATE:	

ST. JOHNS COUNTY UTILITY DEPARTMENT
 1205 STATE ROAD 16
 ST. AUGUSTINE, FLORIDA 32084-8646
 Phone (904) 209-2700 • Fax (904) 209-2702

PUMP STATION STANDARD DETAIL
 SCALE: N.T.S.
 NO. SHEETS: PS-1
 SHEET NO.: PS-1
 DRAWING NO.: PS-01.dwg