

 THIS DRAWING PROVIDES DETAILS FOR CONSTRUCTION OF PUMP STATIONS TO BE OWNED AND MAINTAINED BY THE CITY OF LAKELAND. LAYOUT AND ORIENTATION OF FEATURES, SITE DIMENSIONS, TOPOGRAPHY, AND DRAINAGE SHALL BE PROVIDED ON A SEPARATE PUMP STATION SITE PLAN SCALED NOT SMALLER THAN 1"=5'.
 REFER TO CITY OF LAKELAND "WASTEWATER MATERIALS SPECIFICATION" FOR APPROVED BRANDS, MODELS, AND VENDORS.

 STRUCTURAL NOTES:

 PRECAST WET WELL STRUCTURE SHOP DRAWING SHALL BE SUBMITTED FOR REVIEW.
 WET WELL AND KING PIN MH SHALL BE PRECAST POLYMER CONCRETE IN ACCORDANCE WITH ASTM C 478, ASTM C 857, AND ACI 350-06. NO LIFTING HOLES ARE PERMITTED THROUGH PRECAST STRUCTURES. REINFORCEMENT SHALL USE ACID RESISTANT REINFORCEMENT (FRP BAR) IN ACCORDANCE WITH ACI 440.1R-06 AS APPLICABLE FOR POLYMER CONCRETE DESIGN.

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 NON-SHRINK GROUT SHALL SEAL AROUND ALL PIPE UNLESS SPECIFIED OTHERWISE BY THE CITY.
 FOR DUPLEX STATIONS, HINGES SHALL BE ON LONG SIDE OF OPENING, ON THE PANEL SIDE (FALL PROTECTION)
 ALL NUTS, BOLTS, AND WASHERS LOCATED IN WET WELL AND VALVE VAULT SHALL BE 304 SS.
 ALL ANCHORS SHALL BE HILTI TYPE 316 SS OR APPROVED EQUAL WITH TYPE 316 SS FASTENERS.
 PUMP BASE ANCHOR BOLT LOCATION AND SIZE SHALL BE PER MANUFACTURER'S SHOP DRAWING.

1. GENERAL PIPING MUST BE DUCTILE IRON PIPE 401 LINED.

2. RISER PIPES IN WET WELL FROM PUMP TO FIRST BEND ABOVE WET WELL SHALL BE HDPE SDR-11 AND MUST BE ONE PIPE SIZES LARGER THEN CALCULATED DI PIPE SIZE RISER PIPES.

 AUXILIARY SUCTION PIPE IN WET WELL TO FIRST BEND ABOVE WET WELL SHALL BE HDPE SDR-11 AND MUST BE TWO PIPE SIZES LARGER THEN CALCULATED DI PIPE SIZE RISER PIPES.
 ALL HDPE AND DI PIPING CAN BE SUBSTITUTED BY STAINLESS STEEL 316 SS, NO UPSIZING REQUIRED EXCEPT AUXILIARY SUCTION PIPE MUST BE ONE PIPE SIZE LARGER THAN RISER PIPES.

4" - 6" = SCHEDULE 40; > 6" = SCHEDULE 10
5. VANDAL-PROOF HOODED VENT CAP, LOCATED NEAR CLOSEST FENCE SIDE OR CORNER. UNDERGROUND PIPING TO BE PVC. RISER PIPING ABOVE GROUND TO BE DIP, PROTECTO 401 LINED, PAINTED ORANGE PER SPEC. (SEE SITE PLAN FOR TRUE ORIENTATION)

6. BY-PASS CONNECTION TO BE BRASS QUICK-DISCONNECT TYPE, COUPLER AND PLUG. 7. CHECK VALVES:

SWING CHECK VALVE SHALL BE DEZURIK, MUELLER, OR KENNEDY
BALL CHECK VALVE SHALL BE FLYGT (MINIMUM 10 FEET OF STATIC HEAD REQUIRED)

PUMP SHALL PASS MINIMUM 3" DEFORMABLE SOLIDS.
 DUCTILE IRON PIPE LENGTH ON EACH SIDE OF MAG METER PER MANUFACTURER'S RECOMMENDATION. MINIMUM 30" FOR CALIBRATION.
 10.1/2" TAP & 1/2" SS BALL VALVE INSTALLED ON ALL STATIONS. PRESSURE TRANSMITTER VEGABAR 38 (1/2") IS INSTALLED ONLY ON STATIONS WITH FORCE-MAIN MANIFOLDS.

ELECTRICAL NOTES: 1. ALL ELECTRICAL EQUIPMENT, MATERIAL AND DETAILS OF INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE CURRENT NATIONAL ELECTRIC CODE (NEC), STATE, CITY, AND LOCAL CODES. CONTACT CITY OF LAKELAND BUILDING INSPECTION FOR APPROVAL OF WORK REQUIRING ELECTRICAL INSPECTOR.

(863) 834-60128.
2. REFERENCE CITY OF LAKELAND STANDARD ELECTRICAL/TELEMETRY DRAWING FOR ANTENNA, CONDUIT DESCRIPTION AND GROUNDING DETAILS.
3. SITE LIGHTING SHALL BE FFLED39. IT SHALL BE POSITIONED 12' ABOVE SLAB AND BE DIRECTED TOWARD WET WELL. LIGHT IS TO BE MOUNTED ON CONTROL PANEL SIDE LEG OF ANTENNA TOWER.

4. PHASE ROTATION MUST BE CLOCKWISE OR RIGHT-HAND.

5. PHASE MONITOR SHALL BE PROVIDED ON 3 PHASE SYSTEMS.

6. FOR SINGLE PHASE GENERATOR RECEPTACLE, DO NOT USE PIN 2, FOR THREE PHASE GENERATOR RECEPTACLE, CONNECT PIN 2 TO PHASE B.

 MAIN CONTROL PANEL (MCP) TO BE PROVIDED BY VENDOR ON CITY OF LAKELAND SPECIFIED VENDOR LIST.
 IF STATION IS NOT BUILD WITH GENERATOR, E-METER AND MCB TO BE LOCATED AT BACK OF MCP. CONDUIT FOR FUTURE GENERATOR IS TO BE INSTALLED AND TERMINATED IN HAND BOX OUTSIDE STATION CONCRETE PAD.

9. IF STATION IS BUILD WITH GENERATOR, E-METER AND MCB TO BE LOCATED AT BACK OF ATS.

10.IF STATION IS NOT INITIALLY BUILD WITH DIESEL BYPASS PUMP CONDUIT FOR FUTURE DIESEL BYPASS PUMP IS TO BE INSTALLED AND TERMINATED IN HAND BOX OUTSIDE STATION CONCRETE PAD.

11. CABLE TRAY WITH REMOVABLE LOUVERED COVER 3" ABOVE GRADE AND 1" FROM ABOVE ENCLOSURE PROVIDES AIR GAB PROTECTION

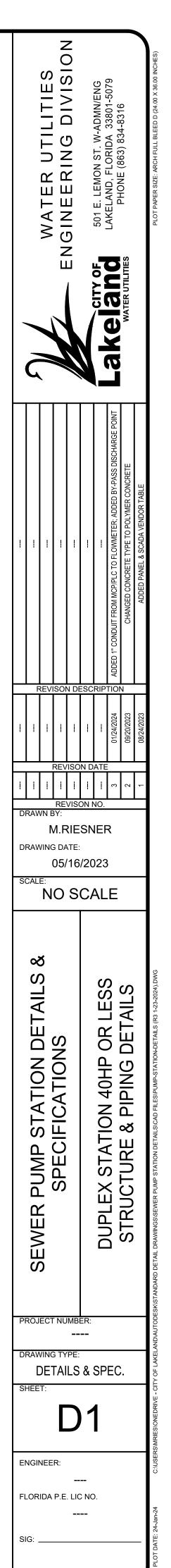
FROM CORROSIVE WET WELL GASES. 12. SEALING WASHER & KILLARK CORD GRIP BETWEEN CABLE TRAY AND MCP ENCLOSURE

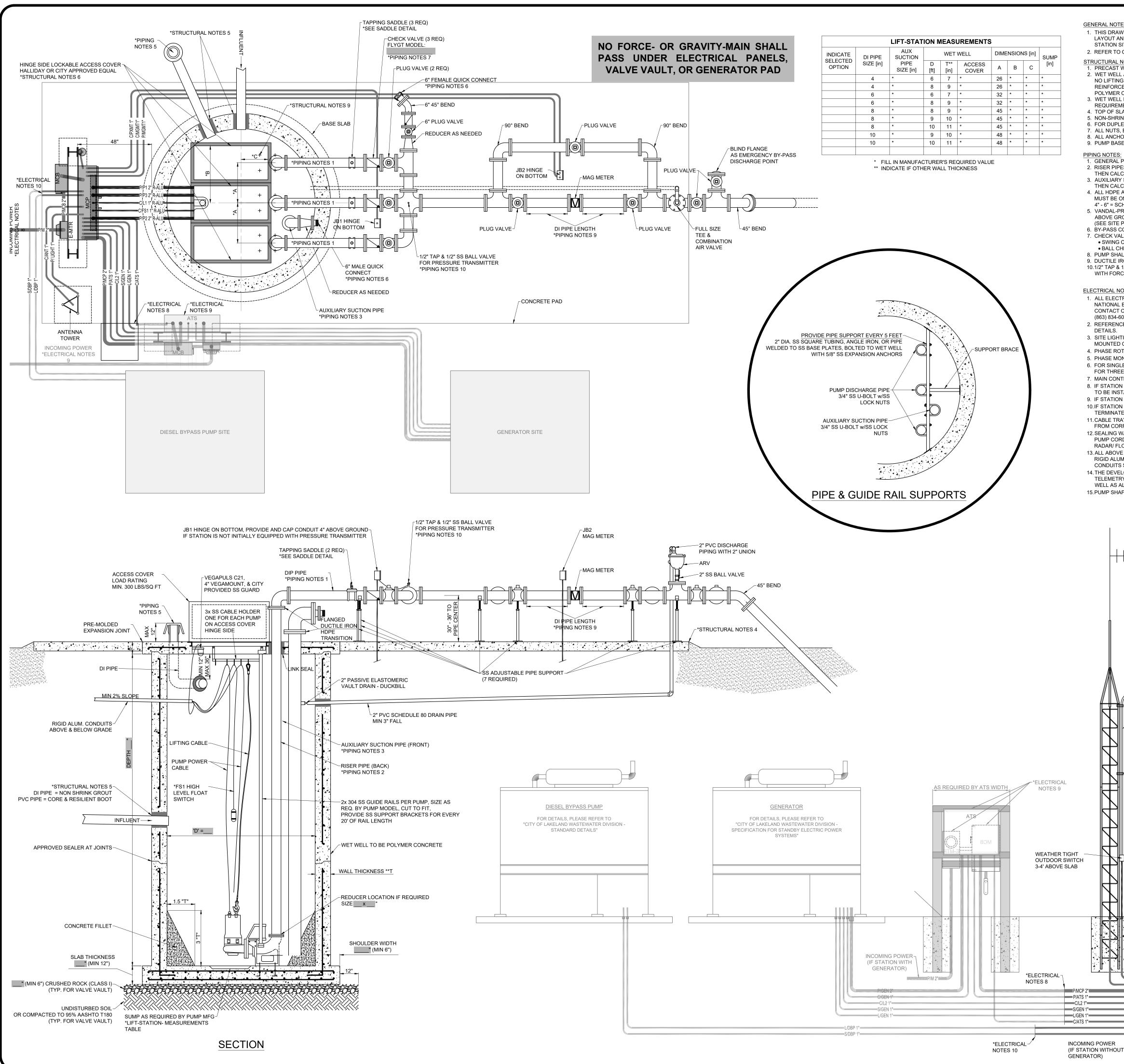
PUMP CORDS: KILLARK CGB586SS, CGB5102SS, CGB5138SS RADAR/ FLOATS:KILLARK CGB215SS, CGB239SS, CGB255SS

13. ALL ABOVE GROUND CONDUIT TO BE RIGID ALUMINUM. ALL UNDERGROUND CONDUIT SHALL BE PVC. CONDUITS FROM WET WELL SHALL BE RIGID ALUMINUM BELOW AND ABOVE GROUND AND HAVE A AIR GAP IN VENTED CABLE TRAY. CONDUITS SHALL HAVE A MINIMUM OF 24" COVER, POWER SUPPLY CONDUIT SHALL HAVE A MINIMUM OF 42" COVER.

14. THE DEVELOPER SHALL PROVIDE AND INSTALL RADIO TELEMETRY IN ACCORDANCE WITH CITY STANDARDS. CITY SHALL PERFORM
TELEMETRY START-UP. RADIO TELEMETRY SHALL PROVIDE AUDIBLE AND VISUAL ALARM AT THE CITY'S WASTEWATER DIVISION OFFICE AS
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 15. PUMP SHAFT SEAL FAILURE WARNING IS INDICATED BY

-ANTENNA AND RADIO TELEMETRY *ELECTRICAL NOTES 14 HYDRAULIC DATA PUMP DATA ELEVATION DATA TOP SLAB [ft]: MOD: INFLUENT [ft]: PUMP DISCHARGE [in]: ALARM [ft]: STATIC HEAD [ft]: LAG PUMP ON [ft]: GPM (manifolded pumps on) LEAD PUMP ON [ft]: TDH [ft] PUMPS OFF [ft]: GPM (manifolded pumps off) TDH [ft]: FLOOR [ft]: RPM: 100YR FLOOD ELEV. [ft] VOLTS: PHASE VARIABLE FREQUENCY DRIVE -LED SITE LIGHT *ELECTRICAL NOTES 3 MFG MODEL -1" RIGID ALUMINUM CONDUIT ACCELERATION/ ABOVE LIGHT SWITCH DECELERATION TIME PANEL & SCADA VENDOR SS MINERALLAC STRAPS PANEL: SCADA: GENERAL CONTROL SYSTEMS F AS REQUIRED BY MCP WIDTH ✓ ALARM LIGHT MCP -EMERGENCY GENERATOR RECEPTCLE *ELECTRICAL NOTES 7 PAINTED RED IF 480V E-METER & MCB ON REAR OF CONTROL PANEL IF STATION WITHOUT GENERATOR CORD GRIP * ELECTRICAL NOTES 12 −JB2 -RECEPTACLE MAG METER -CABLE TRAY * ELECTRICAL NOTES 1' WET E E C C/PXMT 1" P/ LIGHT 1" C/MGMT1" C/ANT 1" P/MGMT1" P/P1 2" R-ALU SPARE 2" R-ALU C/L1 1" R-ALU TO WET WELL *ELECTRICAL NOTES 13 C/FS1 1" R-ALU -----P/P2 2" R-ALU





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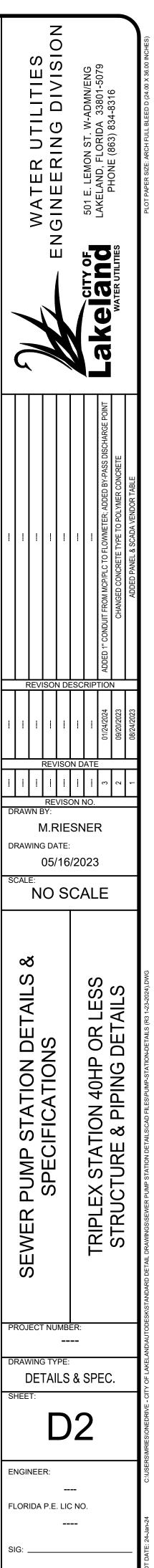
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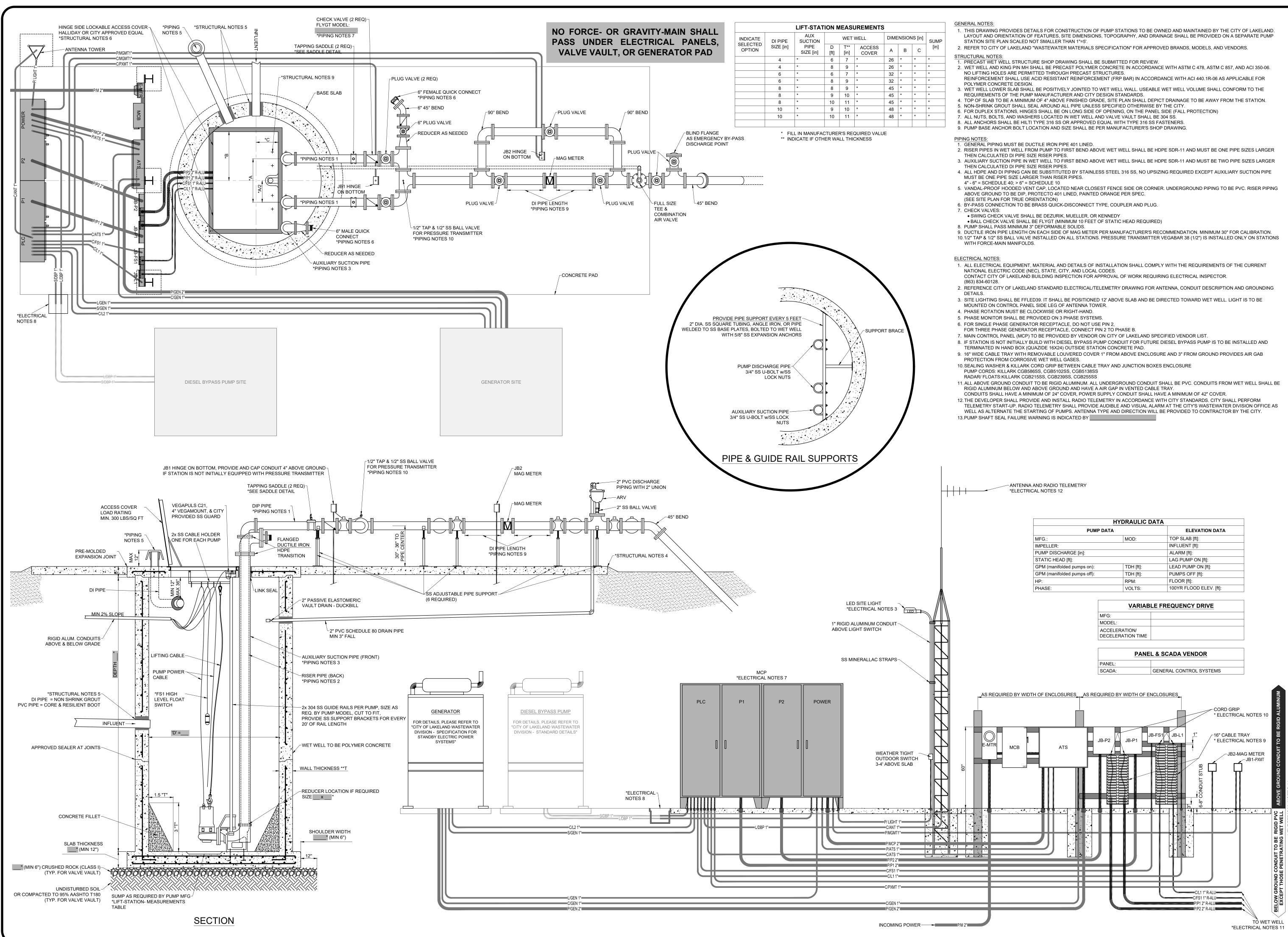
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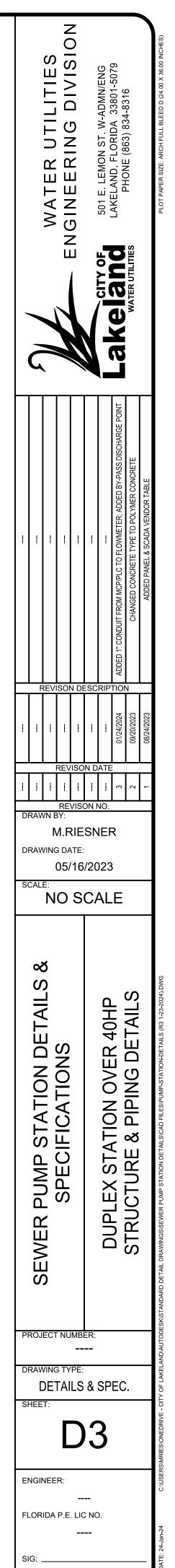
- ΔΝΙΤΕΝΝΙΔ ΔΝΙΟ ΒΔΟΙΟ ΤΕΙ ΕΜΕΤΒΥ *ELECTRICAL NOTES 14 HYDRAULIC DATA PUMP DATA ELEVATION DATA TOP SLAB [ft]: MOD: INFLUENT [ft]: IMPELLER: PUMP DISCHARGE [in]: ALARM [ft]: STATIC HEAD [ft]: LAG PUMP ON [ft]: GPM (manifolded pumps on) TDH [ft] LEAD PUMP ON [ft] TDH [ft]: PUMPS OFF [ft]: GPM (manifolded pumps off FLOOR [ft]: RPM. 100YR FLOOD ELEV. [ft] VOLTS: PHASE VARIABLE FREQUENCY DRIVE -LED SITE LIGHT *ELECTRICAL NOTES 3 MFG: MODEL: 1" RIGID ALUMINUM CONDUIT ACCELERATION/ ABOVE LIGHT SWITCH DECELERATION TIME PANEL & SCADA VENDOR SS MINERALLAC STRAPS PANE SCADA: GENERAL CONTROL SYSTEMS AS REQUIRED BY MCP WIDTH - ALARM LIGH1 MCP -EMERGENCY GENERATOR RECEPTCLE *ELECTRICAL NOTES 7 PAINTED RED IF 480V E-METER & MCB ON REAR OF CONTROL PANEL IF STATION WITHOUT GENERATOR -CORD GRIP * ELECTRICAL NOTES 12 RECEPTACLE MAG METER -CABLE TRAY * ELECTRICAL NOTES 11 NG NG C/PXMT 1" P/ LIGHT 1" C/MGMT1" C/ANT 1" P/MGMT1 P/P1 2" R-ALU P/P3 2" R-ALU TO WET WELL C/L1 1" R-ALU *ELECTRICAL NOTES 13 P/P2 2" R-ALU

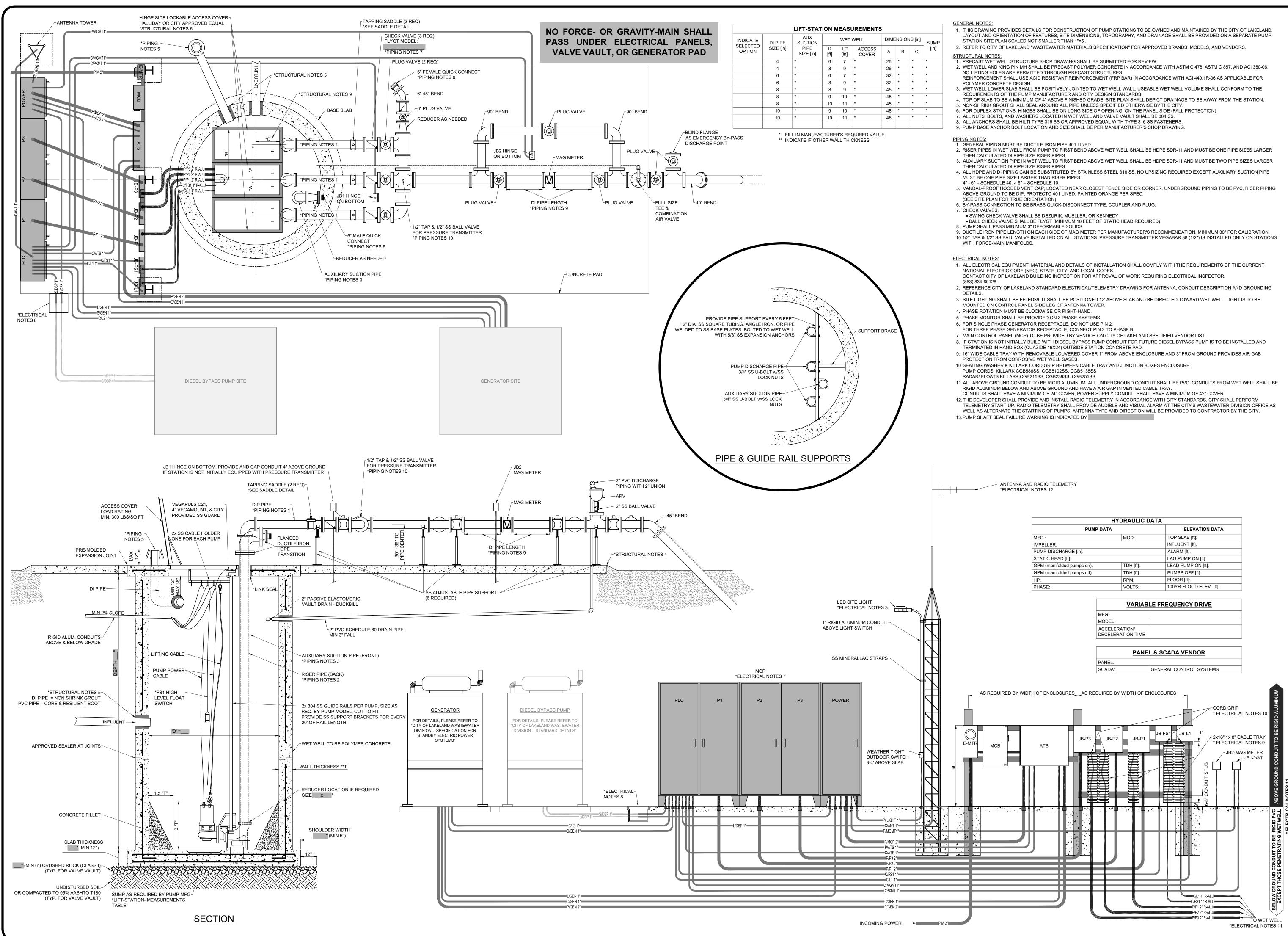




HYDRAULIC DATA					
PUMP DAT	ELEVATION DATA				
MFG.:	MOD:	TOP SLAB [ft]:			
IMPELLER:		INFLUENT [ft]:			
PUMP DISCHARGE [in]:		ALARM [ft]:			
STATIC HEAD [ft]:		LAG PUMP ON [ft]:			
GPM (manifolded pumps on):	TDH [ft]:	LEAD PUMP ON [ft]:			
GPM (manifolded pumps off):	TDH [ft]:	PUMPS OFF [ft]:			
HP: RPM:		FLOOR [ft]:			
PHASE:	VOLTS:	100YR FLOOD ELEV. [ft]:			

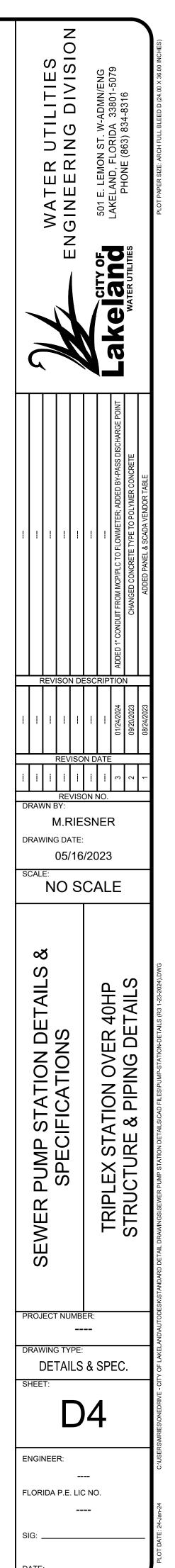


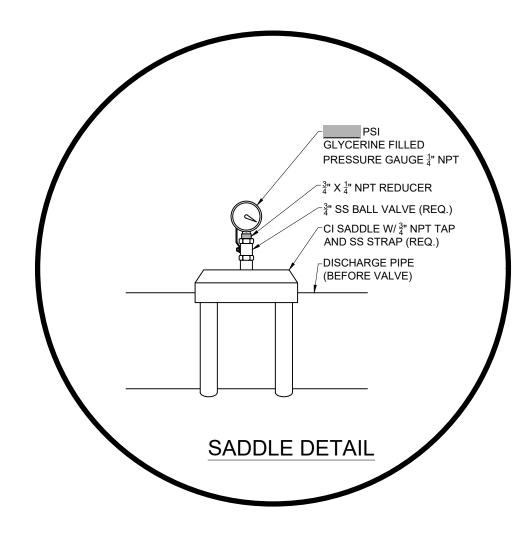


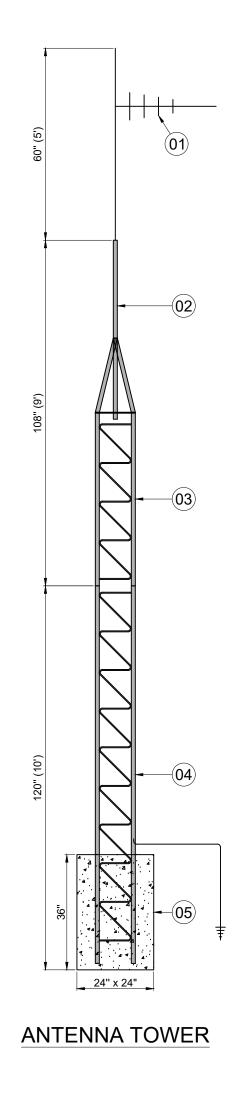


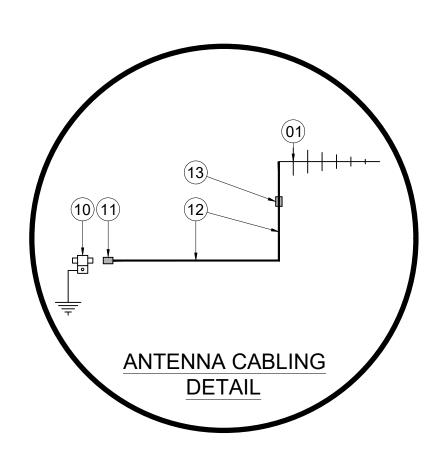
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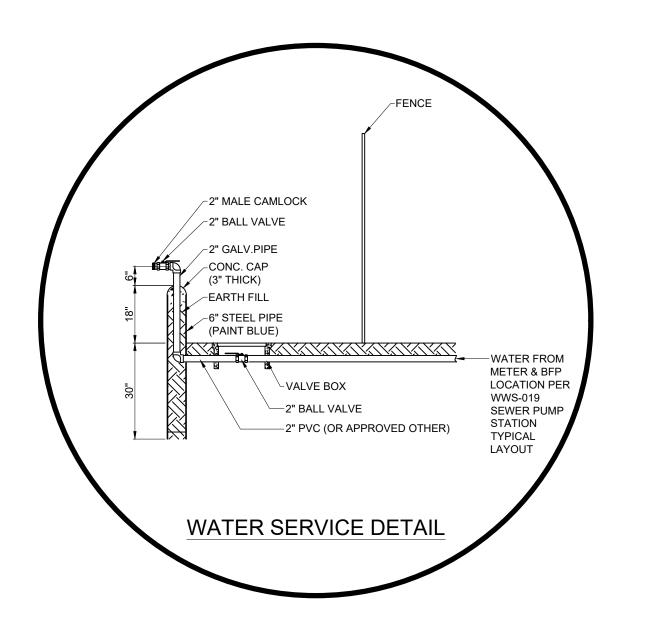




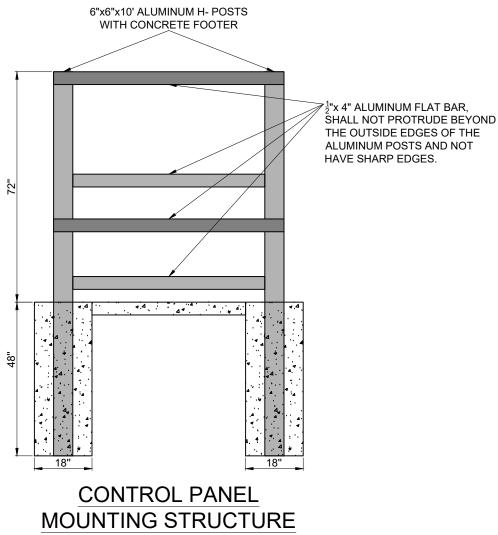


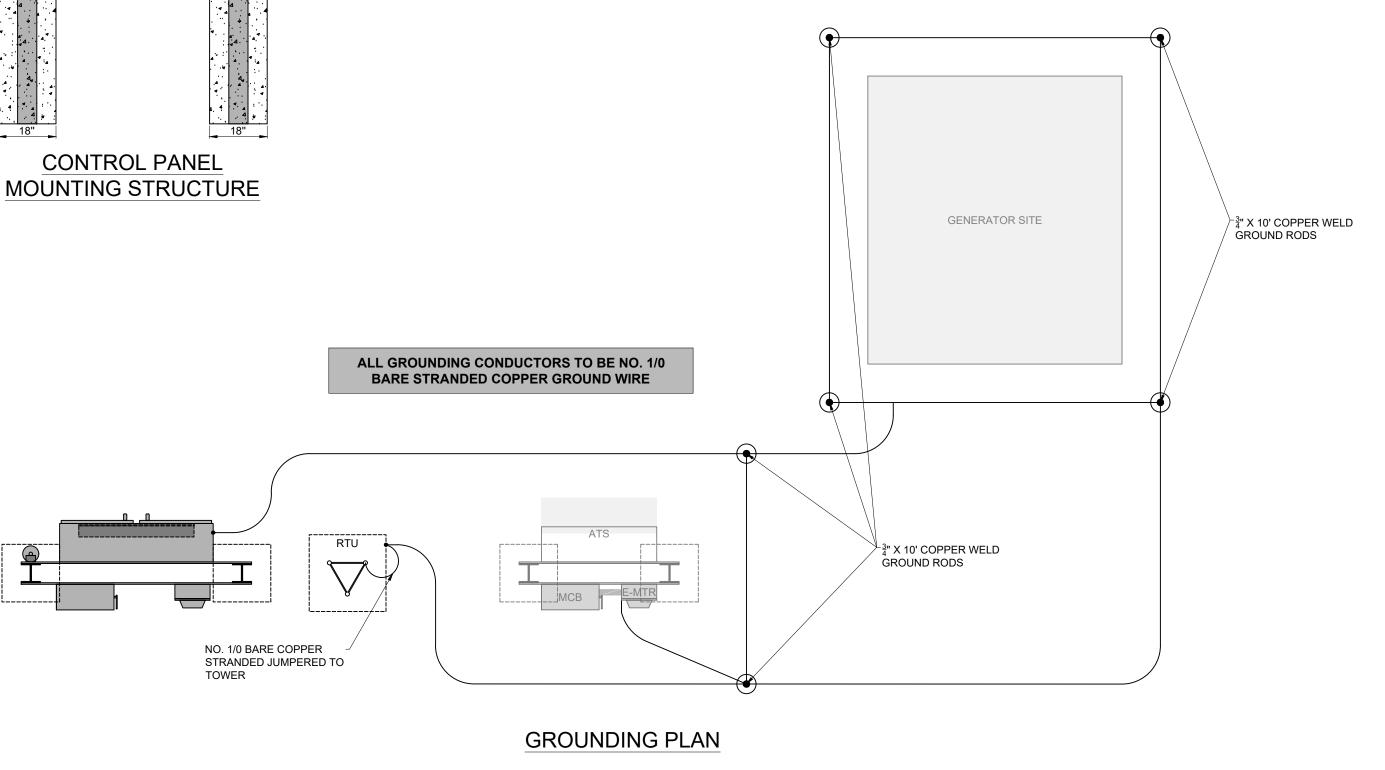


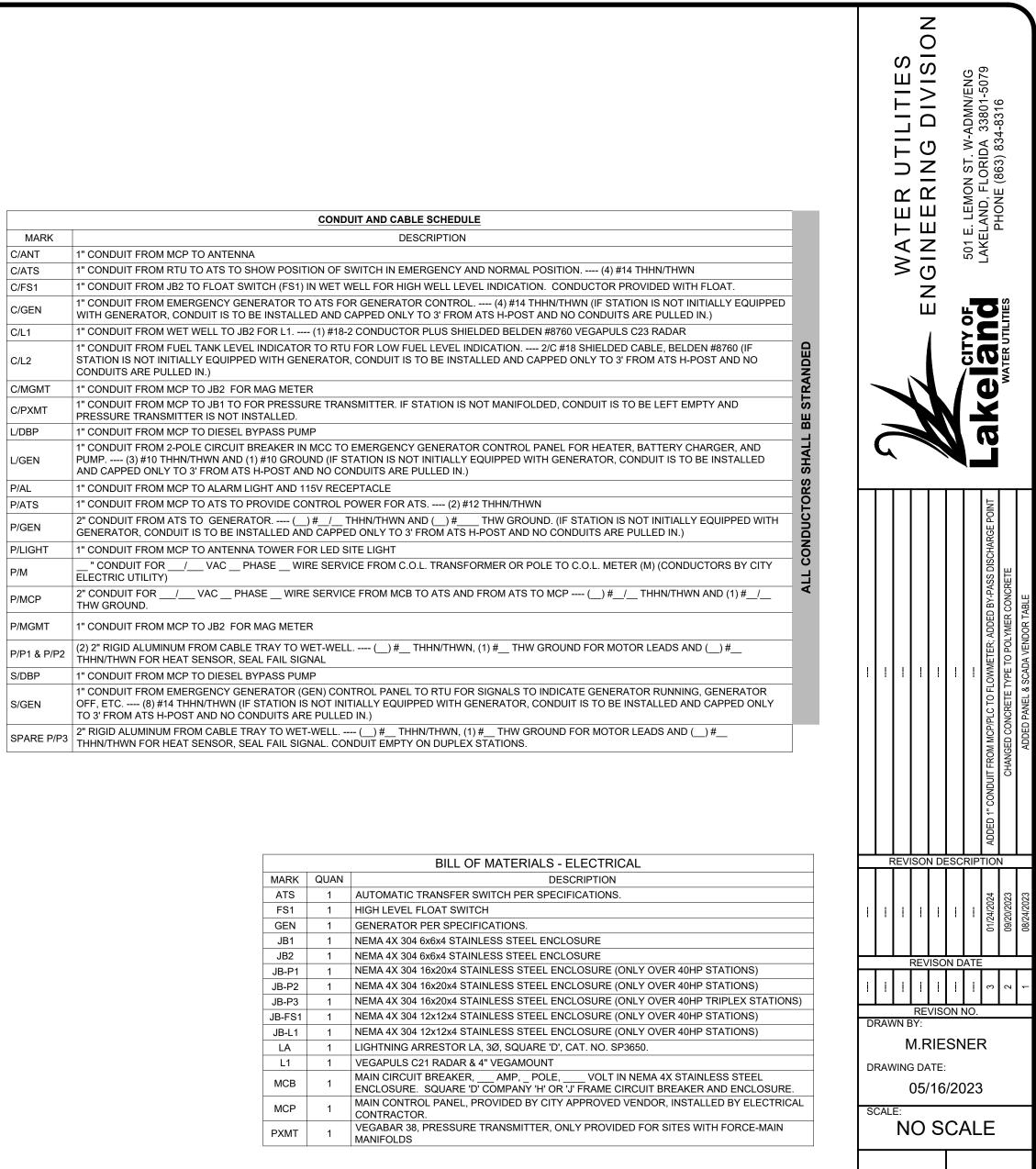
	BILL OF MATERIALS - RADIO TELEMETRY	(
MARK	DESCRIPTION	QUANTITY
01	LAIRD YB4506	1
02	1 ¹ / ₄ " x 10' ALUMINUM CONDUIT	1
03	9' TOWER TOP SECTION, ROHN CLONE 25VG	1
04	10' TOWER BASE SECTION, ROHN CLONE 25V	1
05	READY MIX CONCRETE FILL	AS REQ'D
10	NEXTEC LP-BTR-NFF/ PTI-BB50-NFF	1
11	TYPE N CONNECTOR	1
12	LMR-400 CABLE	AS REQ'D
13	TYPE N CONNECTOR	1



MARK	
C/ANT	1" CONDUIT
C/ATS	1" CONDUIT
C/FS1	1" CONDUIT
C/GEN	1" CONDUIT WITH GENE
C/L1	1" CONDUIT
C/L2	1" CONDUIT STATION IS CONDUITS
C/MGMT	1" CONDUIT
C/PXMT	1" CONDUIT PRESSURE
L/DBP	1" CONDUIT
L/GEN	1" CONDUI PUMP (AND CAPPI
P/AL	1" CONDUIT
P/ATS	1" CONDUIT
P/GEN	2" CONDUI GENERATO
P/LIGHT	1" CONDUIT
P/M	" CONDU
P/MCP	2" CONDUI THW GROU
P/MGMT	1" CONDUIT
P/P1 & P/P2	(2) 2" RIGID THHN/THW
S/DBP	1" CONDUIT
S/GEN	1" CONDUI OFF, ETC TO 3' FROM
SPARE P/P3	2" RIGID AL







		- F					D ADDED 1" CONDUIT FROM MCP/PLC TO FLOWMETER; ADDED BY-PASS DISCHARGE POINT	CHANGED CONCRETE TYPE TO POLYMER CONCRETE	ADDED PANEL & SCADA VENDOR TABLE
	-	-		-		-	01/24/2024	09/20/2023	08/24/2023
1			REV	'ISO	N D	ATE	3	2	-
DI	RAV		BY:	VIS		NO.	ļ		
DI	RAV	VINC	G DA	TE:					
S	CAL	E:			/20				
		N	0	S	C/	٩L	E		
SEWER PUMP STATION DETAILS & SPECIFICATIONS			DETAIL VIEWS & SCHEMATICS						
			SPE				DFTAII V		
PI					ER:		DFTAIL V		
			- NU	IMB 					
DI			- νυ σ τγ ΓΑΙ	PE: LS		SP			
SI			ΤΑΙ	PE: LS	&	SP			
SI			TAI	TPE: LS	&	SP			
DI Si EI			TAI			SP			