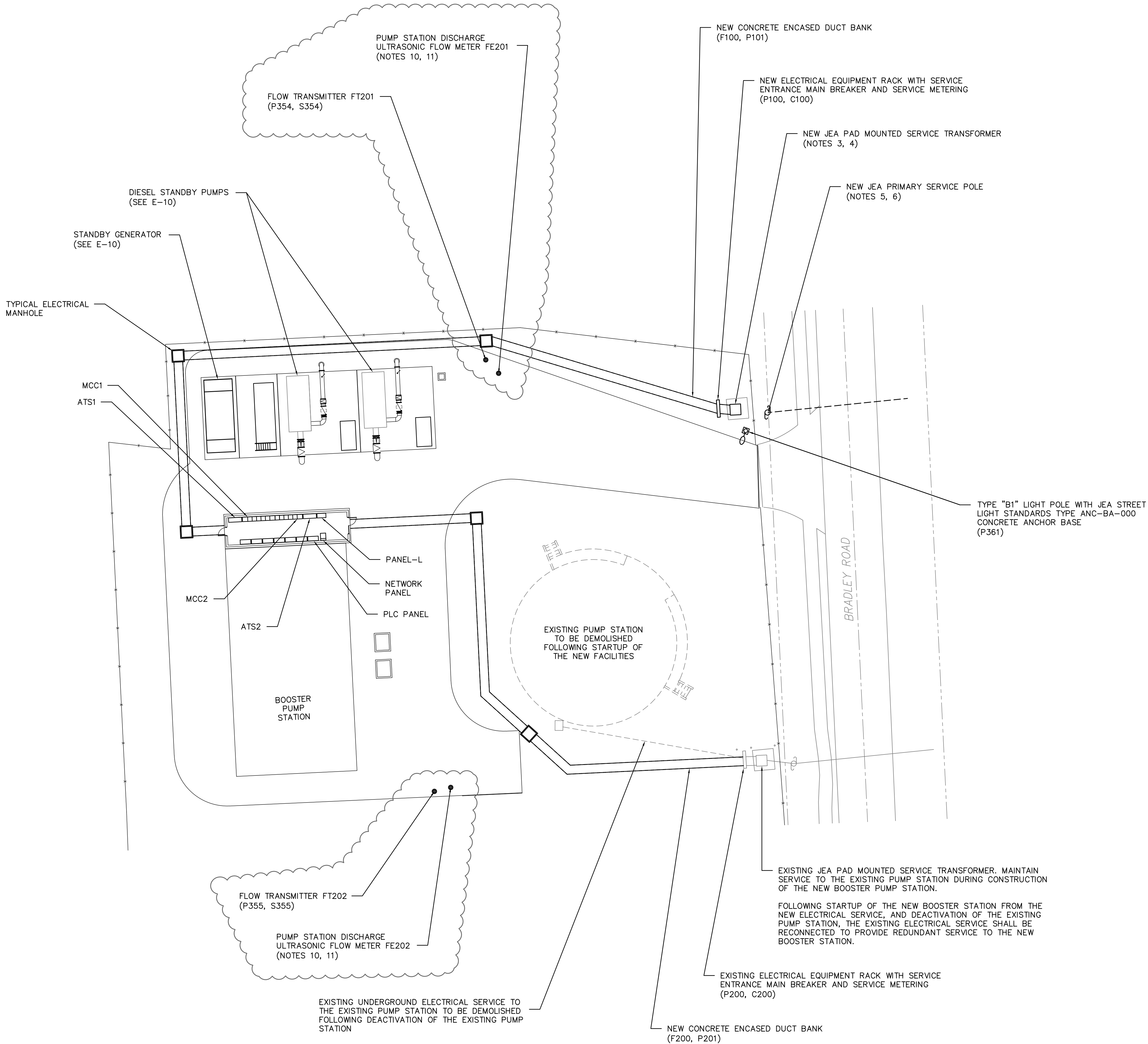


NOTES:

1. THE CONTRACTOR SHALL INSPECT THE SITE PRIOR TO BID TO EVALUATE EXISTING CONDITIONS. INSTALLATION OF THE NEW FACILITIES WILL REQUIRE FIELD COORDINATION WITH PLANT OPERATIONS TO PERMIT MAINTENANCE OF OPERATION DURING CONSTRUCTION. DURATION OF POWER OUTAGES SHALL BE MINIMUM REQUIRED FOR SAFE INSTALLATION AND SHALL BE SCHEDULED WITH AND APPROVED BY THE OWNER.
2. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID EXISTING UNDERGROUND UTILITIES INCLUDING PROCESS PIPING, WATER LINES, CHEMICAL FEED PIPING, ELECTRICAL CONDUITS, TELEPHONE, ETC. HAND EXCAVATION SHALL BE REQUIRED IN CONGESTED AREAS WHERE THE EXACT LOCATION OF ALL UTILITIES IS UNKNOWN AND SURFACE LOCATION IS NOT PRACTICAL. LOCATIONS SHOWN FOR THE EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE ONLY. NOT ALL OF THE EXISTING UNDERGROUND UTILITIES ARE SHOWN. FIELD ADJUST LOCATIONS OF THE NEW FACILITIES TO ACCOMMODATE THE EXISTING SITE CONDITIONS AND UNDERGROUND UTILITIES.
3. PROVIDE NEW ELECTRICAL SERVICE IN ACCORDANCE WITH ALL APPLICABLE POWER COMPANY REQUIREMENTS, INCLUDING NEW SERVICE METERING, METER ENCLOSURE, METER MOUNTING SYSTEM, ETC.
4. THE NEW ELECTRICAL SERVICE PAD MOUNTED TRANSFORMER AND PRE-CAST TRANSFORMER PAD SHALL BE PROVIDED BY JEA. THE CONTRACTOR SHALL INSTALL THE TRANSFORMER PAD, BOLLARDS, METERING, PRIMARY CONDUITS ETC. IN ACCORDANCE WITH JEA REQUIREMENTS.
5. INSTALL 2-4" SCH 40 PVC CONDUITS FROM THE NEW TRANSFORMER TO THE SERVICE POINT OF CONNECTION IN ACCORDANCE WITH JEA REQUIREMENTS. INSTALL 36" RADIUS ELLS AT PAD AND POLE. MAINTAIN MINIMUM 42" COVER. CALL FOR JEA INSPECTION BEFORE COVERING. INSTALL A PULL WIRE IN EACH CONDUIT. CONDUIT AND ELLS SHALL BE PROVIDED BY THE JEA.
6. INSTALL 1-4" SCH 40 PVC CONDUIT FROM THE NEW PRIMARY SERVICE POLE, THROUGH THE NEW CONCRETE ENCASED DUCT BANK, TO THE NEW SECURITY SYSTEM PANEL IN THE ELECTRICAL BUILDING. THE NEW CONDUIT F100 SHALL BE USED BY JEA TO INSTALL NEW FIBER OPTIC NETWORK CABLE TO THE SECURITY SYSTEM PANEL.
7. THE PROJECTS GROUNDING SYSTEM SHALL CONSIST OF A GROUNDING ELECTRODE SYSTEM IN ACCORDANCE WITH NEC SPECIFICATIONS, BONDED TO A MAIN GROUND BUS INTERCONNECTING ALL POWER DISTRIBUTION EQUIPMENT. GROUND ROD SECTIONS SHALL BE COUPLED AND DRIVEN TO ESTABLISH A MAXIMUM RESISTANCE TO GROUND OF 10 OHMS THROUGHOUT THE GROUNDING SYSTEM.
8. PROVIDE A UL MASTER LABEL LIGHTNING PROTECTION SYSTEM FOR THE NEW ELECTRICAL BUILDING, INCLUDING GROUND RODS AT EACH LIGHTNING PROTECTION SYSTEM DOWN CONDUCTOR. INTERCONNECT EACH SYSTEM GROUND ROD WITH A CONTINUOUS #4/0 COPPER COUNTERPOISE LOOP. BOND THE SERVICE ENTRANCE EQUIPMENT, POWER DISTRIBUTION EQUIPMENT, GENERATOR, FUEL STORAGE TANK, AND FENCING TO THE LOOP COUNTERPOISE.
9. PROVIDE A CONTINUOUS #4/0 COPPER COUNTERPOISE LOOPS FOR THE STANDBY GENERATOR, STANDBY PUMPS AND THE FUEL STORAGE TANKS. PROVIDE GROUND RODS AT EACH CORNER OF THE LOOP. BOND THE STANDBY GENERATOR, EACH STANDBY PUMP, AND EACH FUEL STORAGE TANK TO THE LOOP AT A MINIMUM OF TWO PLACES ON OPPOSITE ENDS OF EACH UNIT.
10. TYPICAL ABOVE GROUND ULTRASONIC FLOW METER WITH CLAMP-ON FLOW SENSORS. PROVIDE ELECTRICAL EQUIPMENT RACK WITH FIELD INSTRUMENTATION WEATHER PROTECTION ENCLOSURE ADJACENT TO THE FLOW METER.
11. TYPICAL ULTRASONIC FLOW TRANSMITTER: PROVIDE FIELD INSTRUMENTATION WEATHER PROTECTION ENCLOSURE WITH FLOW TRANSMITTER, POWER AND SIGNAL LINE SURGE PROTECTION, AND TOGGLE SWITCH. PROVIDE WP TYPE GFI RECEPTACLE MOUNTED BELOW THE FLOW TRANSMITTER. PROVIDE TWO 1" SCH 40 PVC CONDUIT SLEEVES FROM THE FLOW TRANSMITTER TO THE FLOW METER FOR THE FLOW SENSOR CABLES.
12. BECAUSE THE NEW BUILDING WILL HAVE TWO SEPARATE ELECTRICAL SERVICES, FROM TWO SEPARATE SERVICE TRANSFORMERS WITH TWO SEPARATE SERVICE METERS, JEA WILL NEED TWO SEPARATE SERVICE ADDRESSES ISSUED BY DUVAL COUNTY.
13. THERE SHALL BE A CONTRIBUTION IN AID OF CONSTRUCTION CHARGE FROM THE CONTRACTOR TO JEA TO PROVIDE THE NEW ELECTRICAL SERVICE, INCLUDING SERVICE POLE, TRANSFORMER, AND PRIMARY CONDUCTORS.
14. PROVIDE PERMANENT PLAQUES AT EACH SERVICE ENTRANCE MAIN BREAKER, AND AT AT EACH MOTOR CONTROL CENTER MAIN BREAKER, DENOTING THE LOCATION OF BOTH SERVICES SUPPLYING THE PUMP STATION BUILDING.



NO. SHEETS 79		PROJ. NO. 6103-108860		JEA, BRADLEY ROAD		DESIGNER: D LASSETTER		DESIGN ENGINEER		NO.		BY		DATE		REVISIONS	
SHEET NO. 56		DATE: MAY 2019		WASTEWATER BOOSTER PUMP STATION ELECTRICAL SITE PLAN		 JEA Building Community <sup>sm</sup>		W. DAVID LASSETTER FLORIDA REGISTRATION NO. 37871		6.							
SCALE: AS SHOWN		DRAWN BY: D LASSETTER								5.							
		CHECKED BY: CDM SMITH								4.							
DRAWING NO. E-6										3.							
										2.							
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