

UTILITY CONSTRUCTION

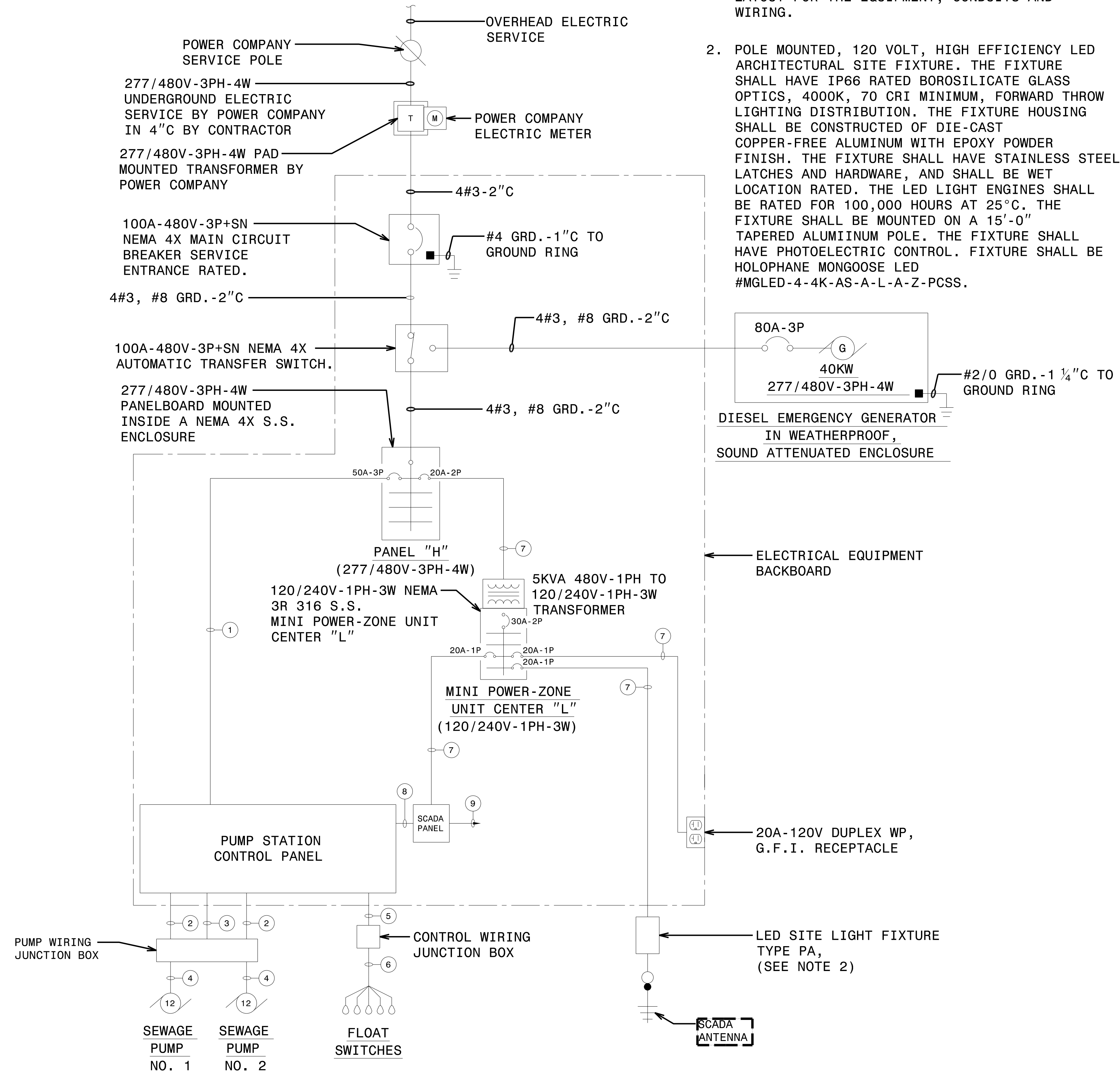
**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

NOTES

1. THE ARRANGEMENT OF CONTROL EQUIPMENT MOUNTED ON THE BACKBOARD SHALL BE DETERMINED BY THE CONTRACTOR. EQUIPMENT SHALL BE ARRANGED TO PROVIDE A CLEAN LAYOUT FOR THE EQUIPMENT, CONDUITS AND WIRING.
2. POLE MOUNTED, 120 VOLT, HIGH EFFICIENCY LED ARCHITECTURAL SITE FIXTURE. THE FIXTURE SHALL HAVE IP66 RATED BOROSILICATE GLASS OPTICS, 4000K, 70 CRI MINIMUM, FORWARD THROW LIGHTING DISTRIBUTION. THE FIXTURE HOUSING SHALL BE CONSTRUCTED OF DIE-CAST COPPER-FREE ALUMINUM WITH EPOXY POWDER FINISH. THE FIXTURE SHALL HAVE STAINLESS STEEL LATCHES AND HARDWARE, AND SHALL BE WET LOCATION RATED. THE LED LIGHT ENGINES SHALL BE RATED FOR 100,000 HOURS AT 25°C. THE FIXTURE SHALL BE MOUNTED ON A 15'-0" TAPERED ALUMINIUM POLE. THE FIXTURE SHALL HAVE PHOTOELECTRIC CONTROL. FIXTURE SHALL BE HOLOPHANE MONGOOSE LED #MGLED-4-4K-AS-A-L-A-Z-PCSS.

WIRING LEGEND

- 1 3#8, #10 GRD.-1"C
- 2 3#10, #10 GRD.-1"C
- 3 8#14, #12 GRD.-1"C
- 4 PUMP MOTOR AND SENSOR CABLES-2"C
- 6 FLOAT SWITCH CABLES-2"C
- 5 10#14, #12 GRD.-1"C
- 7 2#12, #12 GRD.-3/4"C
- 8 12#14, #12 GRD.-1"C
- 9 ANTENNA CABLE-1"C TO SCADA ANTENNA



PUMP STATION ELECTRICAL ONE-LINE DIAGRAM

PANELBOARD "H" SCHEDULE

VOLTAGE: 277/480V-3PH-4W	PANEL TYPE: ENCLOSURE MOUNTED, BREAKER
MAIN BUS BARS AND LUGS: 100A	MIN. A.I.C. RATING: 8,000
MAIN BREAKER: NONE	LOCATION: ELECTRICAL EQUIPMENT BACKBOARD

NOTES	HP	WATTS	LOCATION	POLE	AMP/TRIP	AMP/TRIP	POLE	LOCATION	WATTS	HP	NOTES
PUMP STATION CONTROL PANEL	24		ELECTRICAL BACKBOARD	3	50	1	2	ELECTRICAL BACKBOARD	5,000		TRANSFORMER FOR MINI POWER-ZONE CENTER "L"
SPARE						6					SPARE
SPARE						7	8	20	3		SPARE
SPARE						13	14				SPARE

MINI POWER-ZONE UNIT CENTER "L" SCHEDULE

VOLTAGE: 120/240V-1PH-3W	PANEL TYPE: SURFACE MOUNTED, BREAKER
MAIN BUS BARS AND LUGS: 100A	MIN. A.I.C. RATING: 8,000
MAIN BREAKER: 30A-2P	LOCATION: ELECTRICAL EQUIPMENT BACKBOARD

NOTES	HP	WATTS	LOCATION	POLE	AMP/TRIP	AMP/TRIP	POLE	LOCATION	WATTS	HP	NOTES	
SITE LIGHT		200	OUTSIDE	1	20	1	2	ELECTRICAL BACKBOARD	200		RECEPTACLE	
SPARE						3	4				SPARE	
SCADA PANEL		200	ELECTRICAL BACKBOARD	1	20	5	6				SPARE	
JACKET WATER HEATER		1000	GEN.	1	20	7	8	20	1	GEN.	200	BATTERY CHARGER
SPARE						9	10				SPARE	

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