

# ELECTRICAL CIRCUITRY SCHEDULE

MARK	CIRCUIT TYPE	CIRCUITRY	DESCRIPTION
①	<u>SERVICE FEEDER:</u> ____/____V, ____A 3φ, 4W	____"C 3#____ 1#____	CONDUIT SIZE PHASE CONDUCTORS NEUTRAL CONDUCTOR
②	ATS & DTSS FEEDERS	____"C 3#____, #____G 1#____	CONDUIT SIZE PHASE & GROUND CONDUCTORS NEUTRAL CONDUCTOR
③	EARTH GROUND	#____ BARE CU	GROUNDING ELECTRODE CONDUCTOR
④	PORTABLE GENERATOR FEEDER	____"C 3#____, #____G 1#____	CONDUIT SIZE PHASE & GROUND CONDUCTORS NEUTRAL CONDUCTOR
⑤	PUMP CONTROL PANEL FEEDER	____"C 3#____, #____G 1#____	CONDUIT SIZE PHASE & GROUND CONDUCTORS NEUTRAL CONDUCTOR (IF APPLICABLE)
⑥	PUMP POWER CABLES FROM WET WELL TO TERMINAL CABINET	3"C	CONDUIT SIZE
⑦	PUMP FLOAT CABLES	4"C	CONDUIT SIZE
⑧	PUMP CIRCUITRY FROM TERMINAL CABINET TO PUMP CONTROL PANEL	3"C 6#____, #____G 4#14 4#14	CONDUIT SIZE PUMP POWER MOTOR OVERTEMPERATURE } NOTE 1 PUMP SEAL FAIL
⑩	SCADA INSTRUMENTATION	1 1/2"C 4#14 4#14 4#14 4#14 4#14 2#14 2#14 8#14	CONDUIT SIZE PUMP RUN STATUS PUMP MOTOR OVERLOAD PUMP MOTOR OVERTEMPERATURE PUMP SEAL FAIL PUMP HOA STATUS POWER FAILURE HIGH LEVEL SPARES
⑪	FLOW METER CABLE	1 1/2"C	INSTALL MANUFACTURER CABLE
⑫	SPD FEEDER	1 1/4"C, 3#4, #4N, #4G	

NOTE: BLANKS INDICATE INFORMATION TO BE COMPLETED BY THE ELECTRICAL DESIGNER.

NOTE 1: INSTALL IN SEPARATE 3/4"C IF PUMP MOTORS SUPPLIED FROM VFDS.

DETAIL: <b>ELECTRICAL CIRCUITRY SCHEDULE</b>	
SCALE: NOT TO SCALE	CFPUA DETAIL DATE: 01/01/19
CFPUA REV. No: 1	

	<b>CAPE FEAR PUBLIC UTILITY AUTHORITY</b> 235 GOVERNMENT CENTER DRIVE WILMINGTON, NC 28403 OFFICE: (910)332-6560 Stewardship. Sustainability. Service.
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DETAIL NO: <b>PS-E10</b>
SHEET NO: -