

METER SOCKET AND METER: METER SOCKET SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AS APPROVED BY THE UTILITY COMPANY. METER SHALL BE FURNISHED AND INSTALLED BY THE UTILITY COMPANY. (METER SHALL BE SIZED FOR 480V, 3?, 200A SERVICE). MAIN CIRCUIT BREAKER: 480V, 3-PHASE, MOLDED CASE CIRCUIT BREAKER LABELED "MAIN". CIRCUIT BREAKER AND ENCLOSURE SHALL BE AS SHOWN BELOW. SIZE AS PER CONTRACT PLANS, AIC RATING MAY DEPEND ON RATING FROM THE UTILITY AND THE CALCULATED ASYMMETRICAL FAULT CURRENT. 100A FRAME, 100A TRIP, 18K A.I.C. 250A FRAME, 200A TRIP, 35K A.I.C. MAIN CONTACTOR: 3-POLE, 480V, 100A FRAME, ELECTRICALY HELD CONTACTOR WITH 120V COIL, WITHOUT ENCLOSURE. CONTROL TRANSFORMER: 480V - 120/240V, I-PHASE, 3 WIRES, 3KVA DRY TYPE TRANSFORMER WITH MOUNTING LUGS FOR CONTROL CIRCUIT BREAKER: 2-POLE, 480V, 100A FRAME, 15A TRIP, BOLT ON TYPE CIRCUIT BREAKER WITHOUT ENCLOSURE. (F) CONTROL PANELBOARD: I-PHASE, 3 WIRES, 120/240V, 100A MAINS WITH (12) I-POLE SPACES, WITH SOLID GROUNDABLE NEUTRAL, WITH ENCLOSURE. LIGHTING PANELBOARD: 480V, 3-PHASE, 4 WIRES, 480Y/277V, 100A BUSS, MAIN LUG ONLY, SOLID GROUNDABLE NEUTRAL AND (30) I-POLE SPACES WITHOUT ENCLOSURE. PANELBOARD SHALL BE NEMA 3R. CIRCUIT BREAKERS SHALL BE THE FOLLOWING RATINGS, AS SPECIFIED IN THE CONTRACT PLANS. I-POLE-50A (H) BYPASS SWITCH: SPST, 20A, 120V, HEAVY DUTY TOGGLE SWITCH IN WEATHER PROOF TYPE-FS BOX. PHOTOCELL UNIT: SINGLE POLE, 120V, 1800W WITH RECEPTACLE MOUNTING BRACKET AND 18" LEADS. PHOTOCELL SHALL BE MOUNTED THRU CONTROL CABINET (120V) WITH GASKETED LEXAN LENS FACING NORTH AND SHALL NOT BE AFFECTED BY ARTIFICIAL LIGHTS. THERMOSTAT: 240V FRAME, 120V LINE, 500W, 40°F TO 70°F OPERATING RANGE, WEATHER PROOF TYPE-FS BOX. K STRIP HEATER: 120V, 500W, CHROME STEEL SHEATH FOR TEMPERATURES UP TO 1200°F (MAX), 11/2" WIDE TERMINALS AT DUPLEX RECEPTACLE: 120V, 20A HEAVY DUTY DUPLEX RECEPTACLE GFCI TYPE WITH GROUNDING LUG IN WEATHER PROOF TYPE-FS BOX AND SHALL BE ATTACHED TO BOTTOM OF I20V PANEL. SECONDARY CIRCUIT BREAKER: 3-PHASE, 480V, 18K A.I.C., 100A FRAME, 100A TRIP, WITHOUT ENCLOSURE. $\langle N \rangle$ COPPER GROUND ROD: $\frac{3}{4}$ " DIA. X IOFT LONG. SEE NOTE 5. $\langle 0 \rangle$ ANCHOR BOLT ASSEMBLY: (SEE E-33) COPPER GROUND LUG: 3/8" BOLTS SIZE, #8 AWG GROUND WIRE, TIN PLATED WITH INSPECTION HOLE, LUG SHALL HAVE RED METER DISCONNECT: 480V, 3-WIRE, SINGLE THROW, NON-FUSIBLE SAFETY SWITCH WITH LOCK ON OPTION. SWITCH SHALL BE INSTALLED INSIDE STAINLESS STEEL NEMA 4X ENCLOSURE. SWITCH AND ENCLOSURE SHALL BE AS SHOWN BELOW. SIZE AS PER CONTRACT PLANS. 100A SERVICE 200A SERVICE $\langle R \rangle$ SURGE PROTECTIVE DEVICE: 240V/480V 50KV PER PHASE SURGE PROTECTIVE DEVICE. S POWER DISTRIBUTION BLOCKS: NEUTRAL AND THREE PHASES, PRE-WIRED FROM LOAD SIDE OF BREAKERS TO TOP SIDE OF (T) UTILITY BREAKER: 200A 3-POLE CIRCUIT BREAKER LABELED "UTILITY", 80% RATED 35KAIC AT 480VAC GENERATOR BREAKER: 200A 3-POLE CIRCUIT BREAKER LABELED "GENERATOR", 80% RATED 35KAIC AT 480VAC SINGLE POLE RECEPTACLES: 200A CAM-TYPE SINGLE POLE MALE RECEPTACLES. GENERATOR FEMALE PLUGS NOT INCLUDED AND SHALL BE ORDERED AS A SEPARATE ACCESSORY WHEN REQUIRED. EIGHT (8) 3" RIGID METALLIC CONDUIT WITH BRONZE GROUND BUSHINGS, COUPLINGS AND EXTENSION CONDUIT STUBS, AS REQUIRED. SEE NOTE 13. (2) 3" RIGID METALLIC CONDUIT (INCOMING SERVICE) SHALL HAVE 4 #2 AWG WIRES. CONTRACTOR SHALL LEAVE WIRE COIL 10 FT. UP THE POLE FOR UTILITY CONNECTION AND SHALL SEAL TOP OF CONDUIT ON THE POLE. SEE NOTE 2. (3) 3" PVC SCH-40. (NOMAL POWER TO MANUAL TRANSFER SWITCH) GROUND WIRE TO THE RIGID METALLIC BRONZE CONDUIT BUSHING, CABINET AND GROUND ROD W/APPROVED CONNECTOR. #8 AWG BARE GROUND WIRE FOR UNDERGROUND SERVICE ENTRANCE CONDUCTOR SIZE #2 OR SMALLER. FOR UNGROUNDED SERVICE CONDUCTORS LARGER THAN #2 AWG, GROUNDING CONDUCTOR SIZE SHALL BE SIZED PER NEC. 3" RIGID METALLIC CONDUIT WITH INCOMING SERVICE WIRES. 2" RIGID METALLIC CONDUIT WITH 4 #2 AWG (7) 3" LIQUIDTITE FLEX METALLIC CONDUIT (LFMC) WITH 4 #2 AWG OR AS SPECIFIED ON THE CONTRACT PLANS. (TO LOAD (8) 3" RIGID METALLIC CONDUIT WITH BRONZE GROUND BUSHINGS, COUPLINGS AND EXTENSION CONDUIT STUBS, AS REQUIRED TO TRANSFER SWITCH AND GENERATOR DOCKING STATION. D 1/2 1 ORIGINAL SIZE IN INCHES NEW JERSEY TURNPIKE AUTHORITY **NEW JERSEY TURNPIKE GARDEN STATE PARKWAY** NAMEPLATE MOUNTED ON THE CABINET DOOR SHALL STANDARD DRAWINGS EMERGENCY CONTACT: TP OPERATIONS 800-352-4848 **TYPE F LOAD CENTER** METER CABINET NAME: UTILITY BUILDING DESIGNATION (E.G. SAIIN) OR MILEPOST DETAILS - 1 (E.G. MP112.3) OFFICE OF THE CHIEF ENGINEER STANDARD DRAWING NEW JERSEY TURNPIKE AUTHORITY WOODBRIDGE, NEW JERSEY

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