

PANEL SCHEDULE										
NAME	RATING	VOLTAGE	# POLES	BRANCH BREAKERS	I.C. RATING	MFR/MODEL	MOUNTING	NOTES		
MDP	200A-3P M.C.B.	208/120V 3ø-4W	42	(2) 40A-3P - ACU (2) 50A-3P - RECT (1) 20A-2P - BLK HTR (1) 50A-2P - PORTABLE GEN (26) 20A-1P - MISC	10 KA	SQ. D/NQ	SURFACE	NEW PANEL 20" WIDE MAX CONFIRM RECT CB REQ'S		
1. ALL F 2. PANE 3. ALL F 4. SHOR 5. PROV 6. PROV	L MODEL #' PANELS SHAI T CIRCUIT F IDE LOCKING IDE LAMACOI	LL HAVE CU S BASED ON LL HAVE FUL RATINGS BASI G PROVISIONS ID LABEL AT	N SQUARE D, LL HEIGHT HIN ED ON A FULI S ON ALL BRE EACH PANEL		ING NOT NDARD PE. 2N	PERMITTED.) 1910.147. D LINE TO LIST	SOURCE PA	CCEPTED. ANEL AND BREAKER NUMBER IN SMALLER TYPE. LS AND SWITCHBOARDS, PROVIDE SPACE,		

BUSSING, AND ALL REQUIRED HARDWARE TO MOUNT FUTURE BREAKERS.

NOTES:

- UNLESS NOTED OTHERWISE, EQUIPMENT SHOWN ON THIS DRAWING IS AS FOLLOWS: CIRCUIT BREAKERS, SWITCHES, AND STARTERS ARE 3-POLE. PANELS ARE 3-PHASE 4-WIRE. TRANSFORMERS ARE 480 VOLT DELTA PRIMARY, 208/120 VOLT WYE SECONDARY.
- FINAL TIGHTENING OF LUGS AND BUSSING SHALL BE TO MFGR'S SPEC'S, USING A TORQUE WRENCH. WHERE MFGR GUIDELINES ARE NOT AVAILABLE REFER TO NEC HANDBOOK ARTICLE 110-14 FOR UL STANDARDS.
- BOND EQUIPMENT GROUND CONDUCTORS TO ALL FEEDER CONDUITS ENTERING ENCLOSURES USING GROUNDING BUSHINGS EQUAL TO OZ GEDNEY TYPE HBLG.
- NEW WORK OR EQUIPMENT IS SHOWN WITH HEAVY PEN WEIGHT. EXISTING IS SHOWN LIGHT. ELECTRICAL SERVICE EQUIPMENT AND INSTALLATION SHALL MEET LOCAL UTILITY COMPANY
- STANDARDS AND GUIDELINES. CONTRACTOR SHALL PAY ALL UTILITY COMPANY FEES FOR ELECTRICAL SERVICE WORK. 6. THE FOLLOWING CONNECTIONS SHALL BE MADE USING LONG BARREL, COPPER COMPRESSION
- LUGS HAVING (2) BOLT HOLES: - ALL GROUND CONNECTIONS IN SWITCHBOARDS, TRANSFORMERS, MOTORS, MOTOR CONTROL CENTERS, AND TRANSFER SWITCHES. EXCEPTION: GROUND CONNECTIONS FOR BRANCH CIRCUITS IN PANELBOARDS SHALL BE PERMITTED TO BE MADE USING COPPER MECHANICAL LUG GROUND BUS. - ALL GROUND AND POWER WIRING CONNECTIONS MADE TO BUSSING.
- MAIN LUGS (PHASE, NEUTRAL, & GROUND) ON SWITCHBOARDS, TRANSFER SWITCHES.
- WHERE NEW LUGS ARE TO BE INSTALLED ON EXISTING EQUIPMENT; MODIFY EXISTING BUSSING AND PROVIDE BUS BAR EXTENSIONS AS REQUIRED TO MAKE NEW CONNECTIONS.
- PROVIDE THE SERVICES OF AN NETA CERTIFIED FIRM FOR CIRCUIT BREAKER TESTING. BREAKERS WITH FRAME RATINGS 150 AMPERES OR LARGER SHALL BE TESTED. BREAKERS WITH TRIP RATINGS 100 AMPERES OR LARGER SHALL BE TESTED. TESTING SHALL BE IN ACCORDANCE WITH NETA ACCEPTANCE TESTING SPECIFICATION 7.6.1.
- 9. LOW VOLTAGE COPPER CABLE SPLICES SHALL BE MADE USING LONG BARREL COMPRESSION BUTT SPLICES EQUAL TO BURNDY TYPE YS. INSULATE SPLICES USING 3M COLD SHRINK 1KV INSULATING SLEEVES OR BURNDY VISI—SHRINK FIRE RETARDANT CLEAR HEAT SHRINK TUBING.
- PROVIDE TESTING AND START-UP OF GENERATOR AND TRANSFER SWITCH. PROVIDE THE SERVICES OF FACTORY TRAINED PERSONNEL FOR SYSTEM START-UP AND INSTALLATION ASSISTANCE. PROVIDE FULL LOAD TESTING (RESISTIVE) AS FOLLOWS: GENERATOR AT 25% LOAD FOR 15 MINUTES.
- GENERATOR AT 50% LOAD FOR 15 MINUTES. GENERATOR AT 75% LOAD FOR 15 MINUTES.
- GENERATOR AT 100% LOAD FOR 15 MINUTES.
- SHUT DOWN GENSET, RESTART, APPLY 100% LOAD FOR 3 HOURS. PERFORM BUILDING LOAD TEST FOR ONE HOUR.
- PROVIDE ALL REQUIRED LOAD BANKS, CABLES, TERMINATIONS, ANF FUEL. MEASURE VOLTAGE, CURRENT, FREQUENCY, FUEL PRESSURE, OIL PRESSURE AND WATER TEMPERATURE, EXHAUST GAS TEMPERATURE AT ENGINE EXHAUST OUTLET ANDCAMBIENT TEMPERATURE AND RECORD EVERY 10 MINUTES DURING TEST. PROVIDE PROVIDE THERMO-SCANS AT END OF TEST. INCLUDE CABLES, CABLE TERMINATIONS, AND LOAD BANK.
- PROVIDE FACTORY STARTUP FROM ASCO FOR AUTOMATIC TRANSFER SWITCH.
- 12. PROVIDE LAYOUT DRAWING SHOWING ALL ELECTRICAL EQUIPMENT WITH SUBMITTAL DRAWINGS. DIMENSIONS ARE CRITICAL DUE TO SPACE BEING LIMITED.

CONSTRUCTION DOCUMENT SUBMISSION (BID SET)



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REVISIONS / AUTHORIZATIONS

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	BID SET	08/30/17

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> DRAWINGS PREPARED FOR AT&T CORPORATE

REAL ESTATE

PROJECT TITLE:

GREGG MIRANDO

TELECOMMUNICATIONS HUT

UNION STATION PLAZA 240-280 SAINT JOHN ST PORTLAND

PTLFME01 Archoid

ELECTRICAL ONE-LINE RISER

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