



POWER PANEL 120/240, 1PHS, 3WIRE

ELECTRIC MOTOR DRIVEN EQUIPMENT, HP SHOWN DISCONNECT SWITCH - VOLT SIZE & NUMBER OF POLES AS NOTED.

LIGHTING FIXTURES - TYPE AS INDICATED ON PLANS. LOWER CASE LETTERS INDICATE SWITCH CONTROL.

RACEWAY & WIRING OR MC CABLE RUN CONCEALED UNDERSLAB. ----- RACEWAY & WIRING RUN EXPOSED HOME RUN TO PANEL-ARROWS INDICATE QUANTITY OF CIRCUITS- NUMERALS

DENOTE CIRCUIT NUMBERS

BRANCH CIRCUIT WIRING SHALL CONSIST OF 2*12, 1*12G, 1/2"C UNLESS OTHERWISE NOTED. ASTERISK INDICATES *10 AWG FOR ALL CIRCUITS CONTAINED IN HOMERUN. DOUBLE ASTERISK INDICATES 2, *8 &1, *10, 3/4"C

SINGLE POLE SWITCH,120 VOLT,20 AMP,SPEC GRADE, GROUNDING TYPE ,MOUNT 48" AFF, 3=3-WAY,4=4 WAY,P=PILOT PILOT LIGHT SWITCHES SHALL BE PROVIDED W/ ENGRAVED NAMEPLATE IDENTIFYING USE.

DUPLEX RECEPTACLE- 20A, 125V SPEC GRADE GROUNDING TYPE AND

WITH MATCHING PLATE FURNISHED W/ OUTLET. FLUSH MOUNTED 45" AFF

MATCHING PLATE - MOUNT 18" AFF. DUPLEX RECEPTACLE- GROUND FAULT OUTLET 20A, 125V-

EXCEPT AS NOTED. EXIT/EMERGENCY LIGHT COMBO, DUAL-LITE No. EVC-U-G-W-D-I OR APPROVED EQUAL

WP WEATHERPROOF CONSTRUCTION

GENERAL NOTES:

1. SITE HAS SINGLE PHASE POWER. CONTRACTOR SHALL PROVIDE AND INSTALL, TOSHIBA G-9 VFD'S TO CREATE THREE PHASE POWER FOR THE PUMPS.

2. THE CONTRACTOR SHALL PROVIDE ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM THAT MEETS THE INTENT OF THE PORTLAND WATER DISTRICT AND ALL APPLICABLE ELECTRICAL, MECHANICAL AND

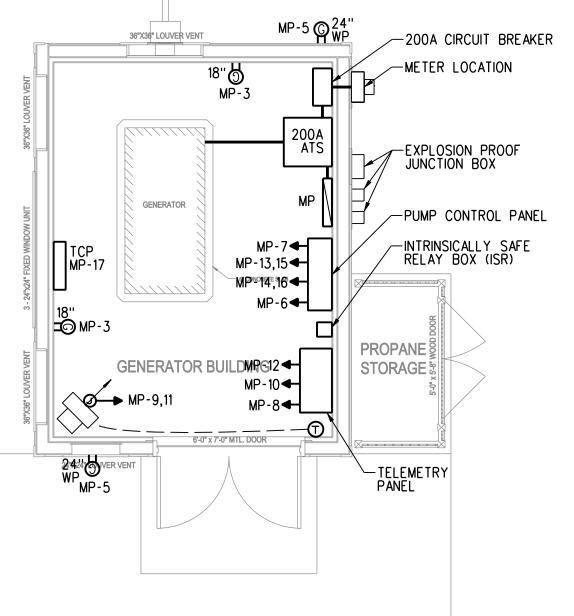
3. ALL RECEPTACLES SHALL BE GROUND FAULT PROTECTED. 4. CONDUIT FOR LIGHTING AND RECEPTACLES MAY BE SURFACE

5. PROVIDE UNDER-FLOOR CONDUIT BETWEEN THE STANDBY GENERATOR PAD AND THE VARIOUS EQUIPMENT, AT A MINIMUM, AS

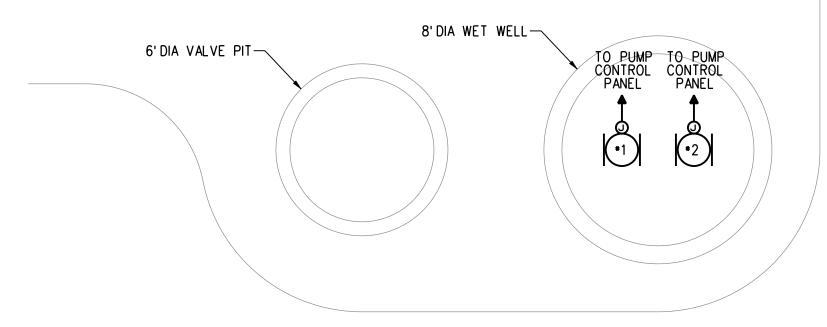
6. PROVIDE ALLEN-BRADLEY No. 1492-C SERIES, OR EQUAL, TERMINAL STRIPS IN THE EXPLOSION PROOF JUNCTION BOXES, APPROPRIATELY SIZED TO MAKE CONNECTIONS BETWEEN THE REMOVABLE WIRING RUNNING FROM THE WET WELL AND THE PERMANENT WIRING RUNNING TO THE BUILDING. WIRE NUTS AND ELECTRICIAN'S TAPE ARE NOT ACCEPTABLE FOR CONNECTIONS AT THESE LOCATIONS.

7. PROVIDE 3KW ELECTRIC UNIT HEATER CONTROLLED BY A THERMOSTAT AND A MANUAL RESET SHUTOFF TIMER SUCH THAT THE HEATER WILL AUTOMATICALLY TURN OFF AFTER 1 HOUR OF

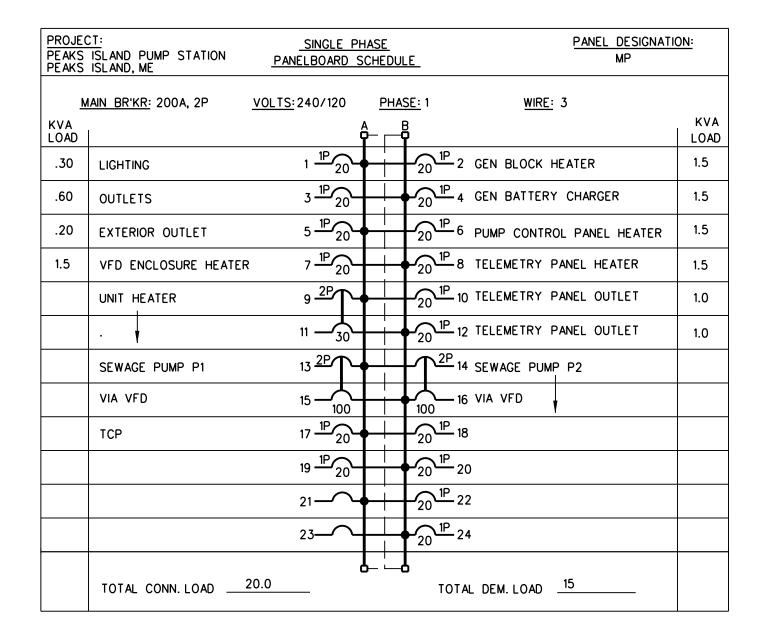
8. SINCE THE BUILDING IS ROUTINELY UNHEATED EXCEPT FOR OCCASIONAL OCCUPANCY, PROVIDE COLD WEATHER BALLASTS FOR LIGHTING.

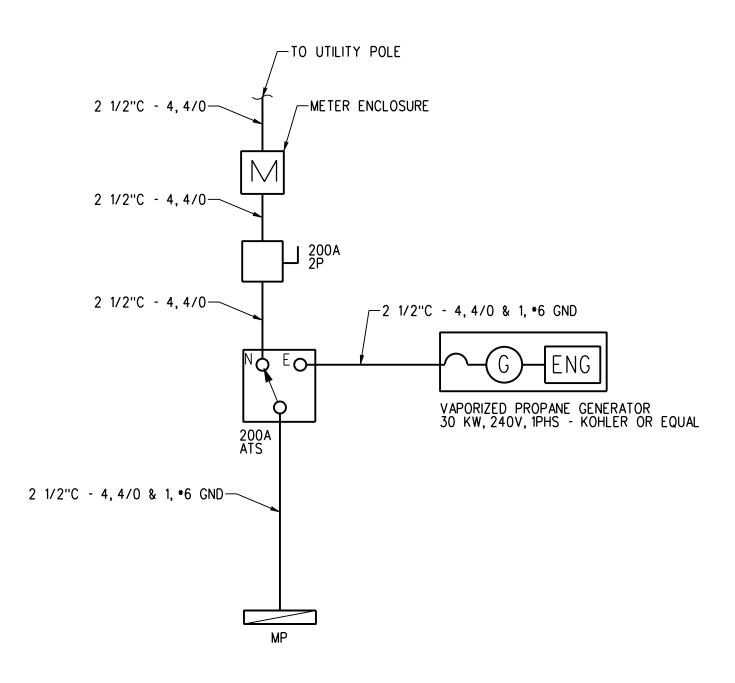


ACCESS ROAD



GENERATOR BUILDING POWER PLAN SCALE: 1/4"=1'-0"





ONE LINE DIAGRAM

BENNET1 **ENGINEERING** MECHANICAL . ELECTRICAL

MICHAEL CLAYPOOLE 1CENSE 01.31.13 RELEASED FOR BIDS 01.10.13 90% REVIEW SET 12.12.12 60% REVIEW SET DATE DESCRIPTION

REVISIONS

PEAKS ISLAND - PORTLAND, MAINE SEWERAGE EXTENSIONS & WATER MAIN RENEWA ISLAND AVENUE AND WINDING WAY AREAS

ELECTRICAL PLAN

DeLUCA-HOFFMAN ASSOCIATES, INC. 778 MAIN STREET, SUITE 8 SOUTH PORTLAND, ME 04106 207.775.1121 WWW.DELUCAHOFFMAN.COM

DRAWN: twg DATE: DEC. 2012 AND DETAILS SCALE: AS NOTED CHECKED: WSBJR JOB NO. 3134 FILE NAME: FILE NAME PORTLAND WATER DISTRICT E1.1 SHEET

RELEASED FOR BIDS