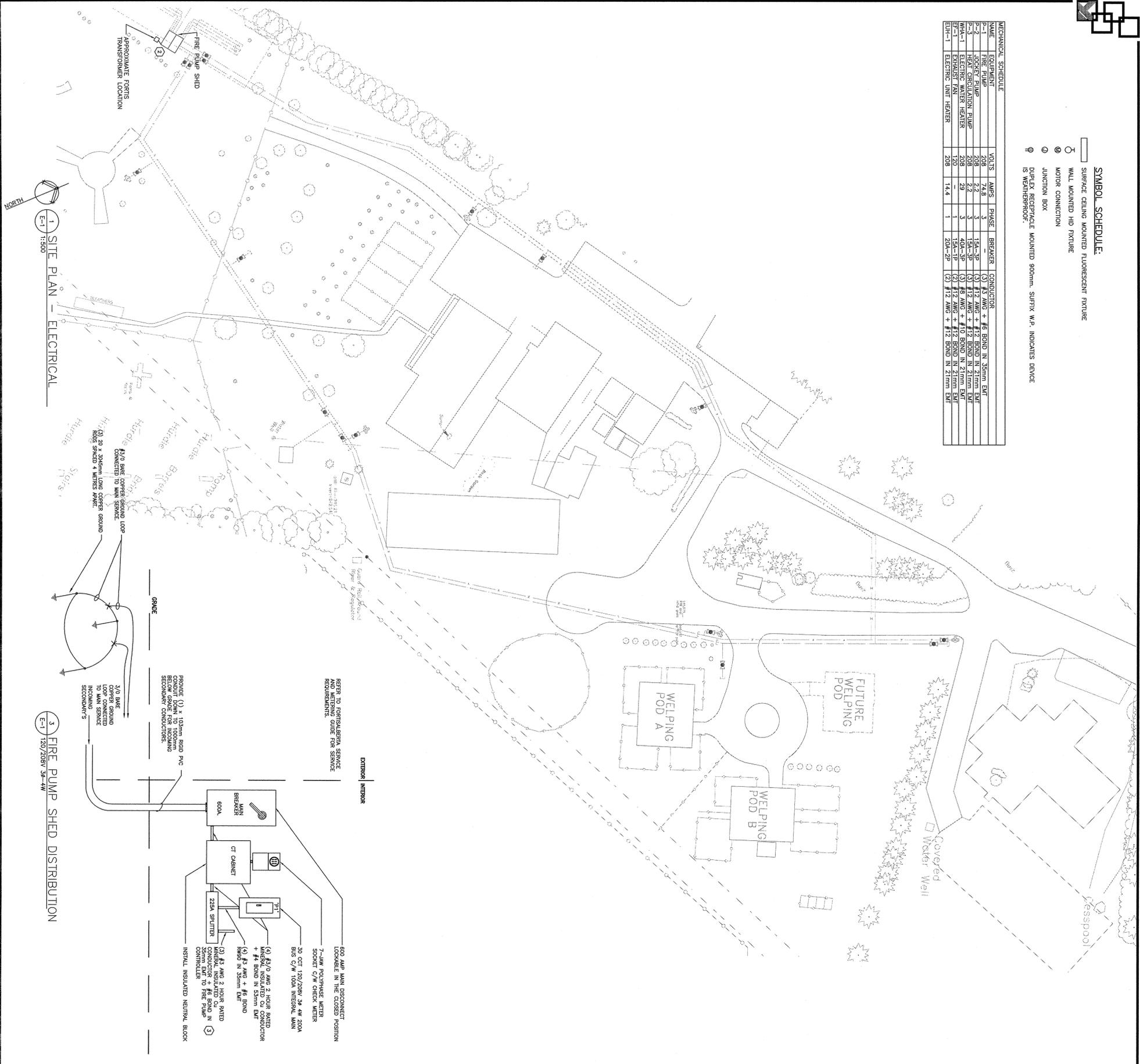




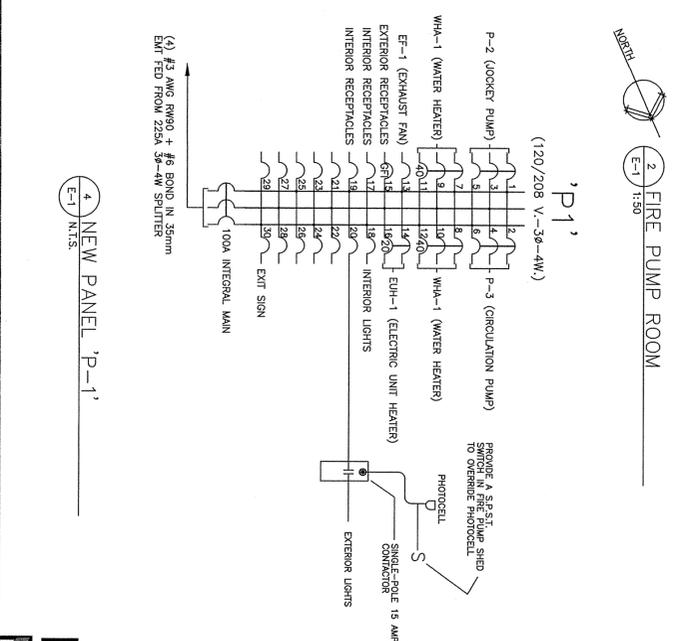
MECHANICAL EQUIPMENT	VOLTS	AMPS	PHASE	BREAKER	CONDUCTOR
P-1 FIRE PUMP	208	74.8	3	(3) #3 AWG + #6 BOND IN 35mm EMT	
P-2 JOCKER PUMP	208	2.2	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
P-3 HEAT CIRCULATION PUMP	208	2.2	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-1 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-2 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-3 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-4 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-5 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-6 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-7 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-8 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-9 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-10 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-11 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-12 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-13 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-14 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-15 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-16 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-17 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-18 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-19 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-20 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-21 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-22 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-23 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-24 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-25 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-26 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-27 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-28 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-29 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-30 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-31 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-32 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-33 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-34 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-35 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-36 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-37 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-38 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-39 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-40 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-41 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-42 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-43 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-44 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-45 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-46 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-47 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-48 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
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EH-50 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
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EH-54 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-55 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-56 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
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EH-58 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-59 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-60 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-61 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-62 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-63 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-64 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-65 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-66 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-67 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-68 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-69 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-70 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-71 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-72 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-73 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-74 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-75 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-76 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-77 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
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EH-81 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-82 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-83 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-84 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-85 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-86 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-87 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
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EH-89 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-90 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-91 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-92 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-93 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-94 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-95 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-96 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-97 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-98 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-99 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT
EH-100 EXHAUST FAN HEATER	120	29	3	15A-3P	(3) #12 AWG + #12 BOND IN 21mm EMT

- SYMBOL SCHEDULE:**
- SURFACE CEILING MOUNTED FLUORESCENT FIXTURE
 - WALL MOUNTED HID FIXTURE
 - ⊙ MOTOR CONNECTION
 - ⊙ JUNCTION BOX
 - ⊙ DUPLEX RECEPTACLE MOUNTED 900mm. SURFEX W.P. INDICATES DEVICE IS WEATHERPROOF.



1 SITE PLAN ELECTRICAL
E-1 1:500

3 FIRE PUMP SHED DISTRIBUTION
E-1 120/208V 3P-4W

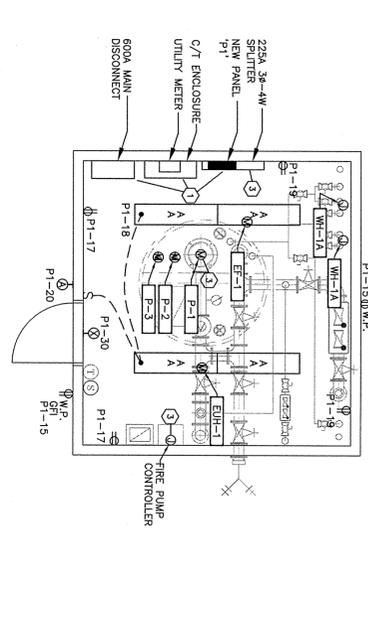


4 NEW PANEL 'P-1'
E-1 KITS

- DRAWING NOTES:**
- PROVIDE NEW 600 AMP MAIN DISCONNECT LOOKAlike IN THE CLOSED POSITION, C/T, METER, SPLITTER AND PANEL AS SHOWN ON DETAIL 3/61 IN FIRE PUMP SHED.
 - PROVIDE (4) #3/0 RW90 + #6 BOND FROM FORMS TRANSFORMER LOCATION TO 600 AMP MAIN DISCONNECT IN FIRE PUMP SHED.
 - PROVIDE (3) #3 AWG 2 HOUR RATED MINERAL INSULATED CONDUCTOR + #6 BOND 55mm EMT FROM 225A SPLITTER TO FIRE PUMP P-1. SEE FIRE PUMP CONTROLLER MANUAL FOR INSTALLATION INSTRUCTIONS.

- FIXTURE SCHEDULE:**
- TYPE A WALL MOUNTED EXTERIOR FIXTURE, 120 VOLT, 175 WATT METAL HALIDE LAMP, ELECTRONIC BALLAST, MOUNT UP 2440mm.
 - COOPER, TULARK, #MMP-FC-175-120V-E OR APPROVED EQUAL
 - TYPE AB SURFACE CEILING MOUNTED FLUORESCENT STRIP FIXTURE, 228 WATT TS LAMP, 120 VOLT, ELECTRONIC BALLAST C/W WIRING, AB, COOPER, METALUX, #PCF-223TS-120-EB1 OR APPROVED EQUAL

- EXIT LIGHTS**
- EXIT LIGHT FIXTURES SHALL BE BI-LINGUAL AND SHALL BEAD 'EXIT/SOIRE'. LED (LIGHTING EMITTING DIODES), SOLID STATE DESIGN WITH 72 LED'S PER FACE FOR A MAXIMUM 5 WATTS PER SIGN, 120 VOLT, STEEL HOUSING WITH WHITE FINISH, AGRICULT KNOWLEDGE FOR AERONAUTICS, C/W SELF CONTAINING BATTERY PACK WITH 6 VOLT SEALED LEAD BATTERY TO PROVIDE A MINIMUM OF 30 MINUTES OF EMERGENCY LIGHTING, POWER PACK C/W TEST SWITCH, HIGH CHARGE PILOT LIGHT, AUTO DIAGNOSTIC CAPABILITY, (2) MOUNTED WATT HEADS, AND SHALL HAVE A MINIMUM FIVE YEAR WARRANTY PERIOD. EXIT LIGHTS SHALL BE OF ONE OF THE FOLLOWING MANUFACTURERS:
- AMULITE # CXT-BAL SERIES OR APPROVED EQUAL
- FIXTURE TYPE X3 - EXIT LIGHT, SURFACE WALL MOUNTED, SINGLE FACE, BOTTOM OF FIXTURE MOUNTED 100mm ABOVE DOOR, ARROWS WHERE INDICATED ON DRAWINGS.



2 FIRE PUMP ROOM
E-1 1:50

Revisions:	No.	Date:	By:	Description:

Client: GOVERNMENT OF CANADA

Project: SITE FIRE PROTECTION RETROFIT

Location: Innisfail, Alberta

Electrical

2015.03.28
P.E. M.N. DAY
MEMBER #8283

PERMIT TO PRACTICE
Ritenburg & Associates Ltd.
Signature: [Signature]
Date: 19/01/2016
Permit Number: P-8889
The Association of Professional Engineers, Geoscientists and Geophysicists of Alberta

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