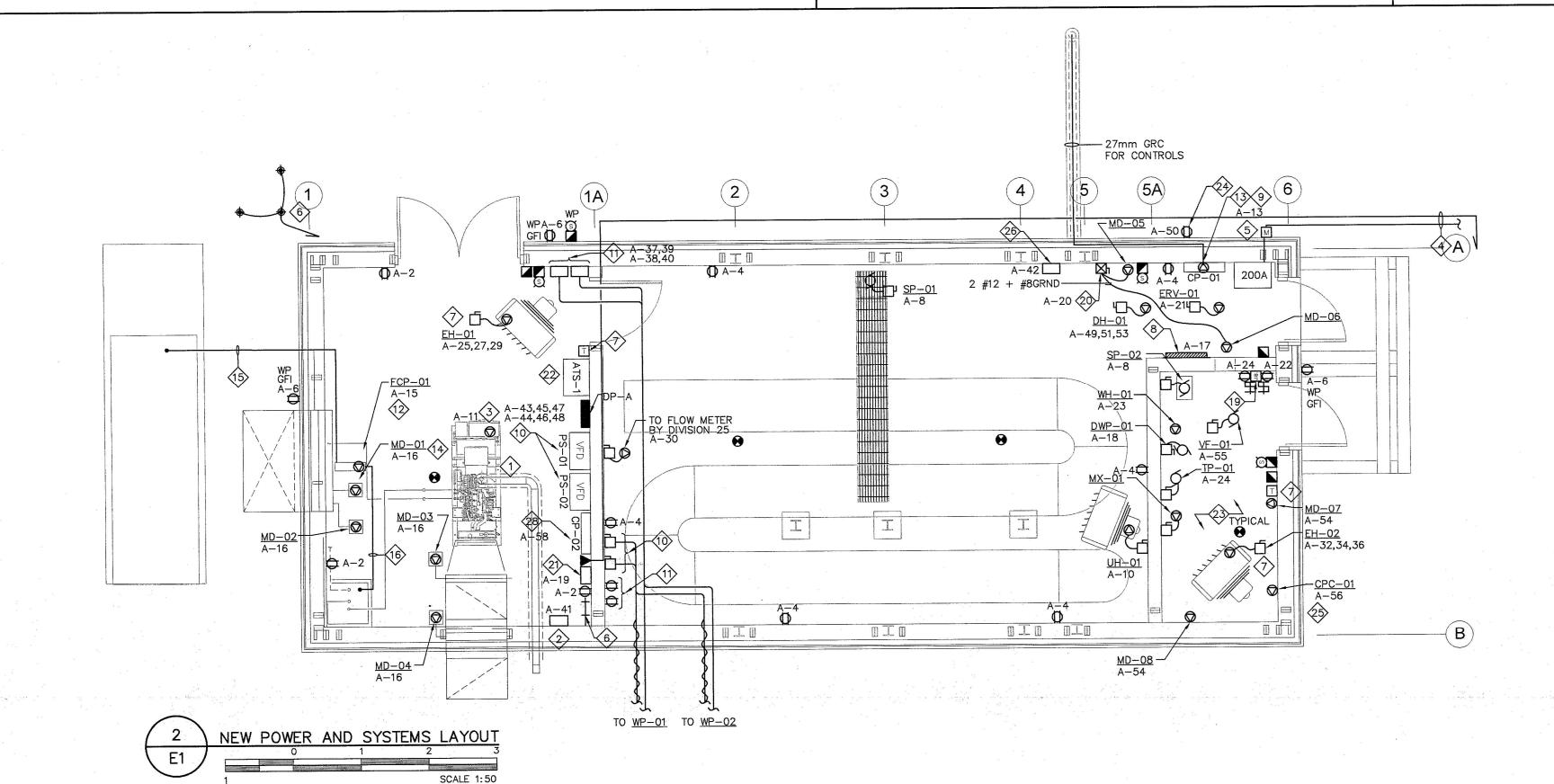
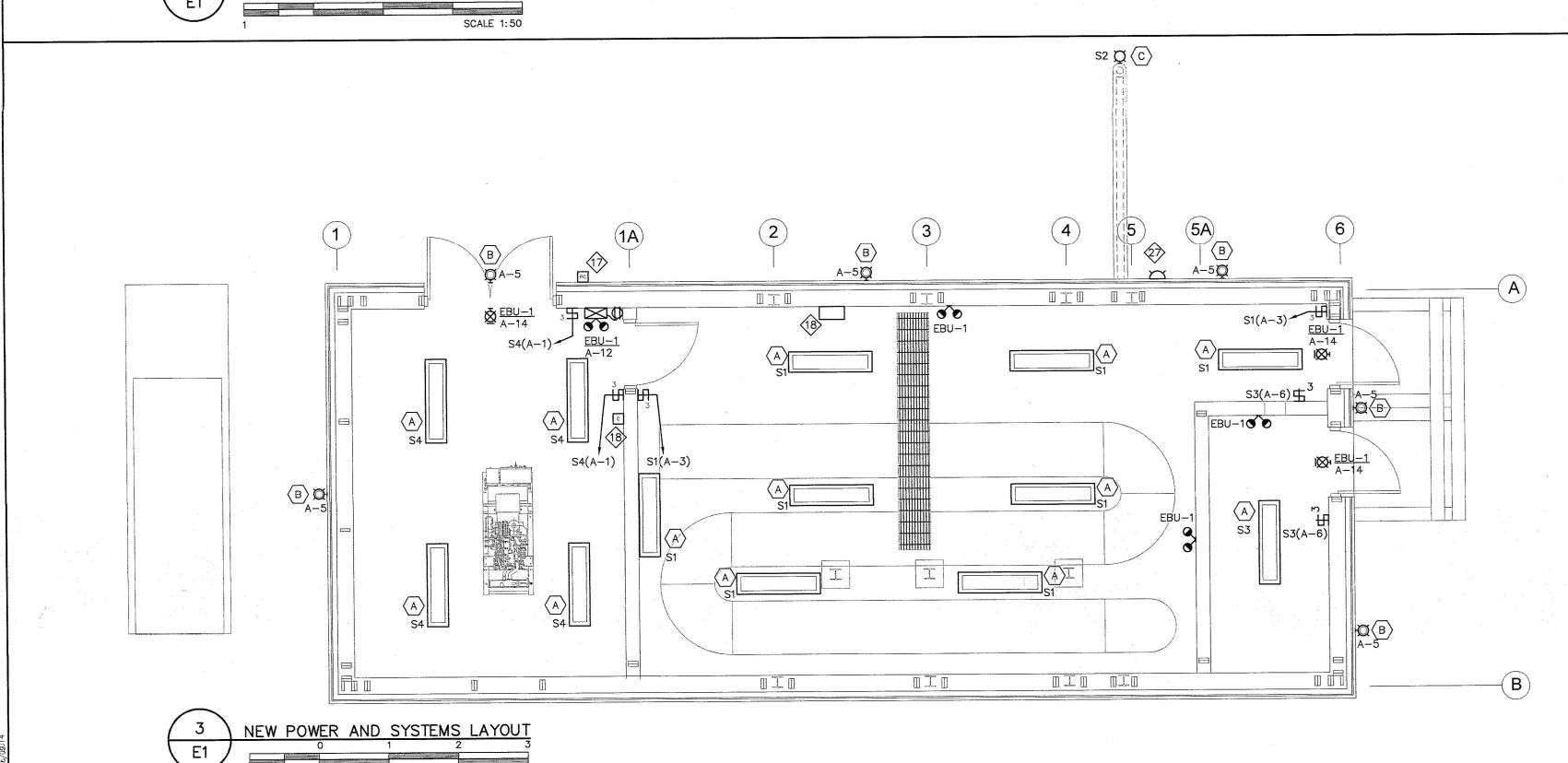


FIXTURE SCHEDULE					
SYMBOL	TYPE	DESCRIPTION			
	A	1321mm x 194mm VAPOUR PROOF FLUORESCENT - 2 x 32W T-8 LAMPS - FIBREGLASS REINFORCED POLYESTER HOUSING - SMOOTH VIRGIN ACRYLIC LENS WITH MOLDED CAM ACTION LATCHES AND SILICONE GASKETS - 120V ELECTRONIC BALLAST - SURFACE MOUNTED - WIRE GUARD AND CHAIN SUPPORTS			
Q	В	WALL MOUNTED FLUORESCENT DOWNLIGHT - 1 x 70W, HIGH PRESSURE SODIUM - 120V ELECTRONIC BALLAST - WEATHER RESISTANT DIE CAST ALUMINUM HOUSING - SPECULAR ALZAK ALUMINUM - BOROSLICATE GLASS LENS - C/W VANDAL SHIELD			
Ď	· (c)	100mm VAPOURLIGHT FIXTURE - 1 x 100W, INCANDESCENT LAMP - 120V ELECTRONIC BALLAST - VAPOURLIGHT, FULLY ENCLOSED AND GASKETED - WEATHERPROOF, IN DIE—CAST ALUMINUM - CLEAR GLASS PENDANT GLOBE - C/W CAST ALUMINUM GUARD - COORDINATE SUPPORT HARDWARE W/ ARCHITEC			

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	
	FIRE ALARM PULL STATION	M	METER HEAD	
•	FIRE ALARM HEAT DETECTOR	J.B.	JUNCTION BOX	
<u> </u>	FIRE ALARM HORN AND STROBE	C	CONTACTOR	
	FIRE ALARM CONTROL PANEL	PC	PHOTOCELL	
事 3	LIGHT SWITCH (3 INDICATES 3-WAY)		BREAKER PANEL	
#	DOUBLE-GANG LIGHT SWITCH		WALL MOUNTED TELEPHONE OUTLET PROVIDE 119mm BOX C/W SINGLE GANG PLASTER RING (RAISED 13mm) AND 19mm EMT C. (C/W INSULATED BUSHINGS) REACHING THE TELEPHONE SERVICE ENTRANCE. COORDINATE EXACT LOCATION /W LOCAL AUTHOR	
	1' x 4' FLUORESCENT FIXTURE	▼		
ήQ	WALL MOUNTED HID FIXTURE			
<u> </u>	CEILING MOUNTED BILINGUAL EXIT SIGNS	•	GROUND ROD	
	EMERGENCY BATTERY UNIT C/W HEADS	Ţ	GROUND	
909	EMERGENCY REMOTE HEADS - WALL MOUNTED		CIRCUIT BREAKER	
Ф	DUPLEX RECEPTACLE	1	REFER TO NOTE 1	
•	DIRECT CONNECTION	A	FIXTURE TYPE 'A'	
VFD	VARIABLE FREQUENCY DRIVE	GFI	DENOTES GROUND FAULT INTERRUPT	
	DISCONNECT SWITCH	WP	DENOTES WEATHER PROOF	





GENERAL NO

- PERFORM COMPLETE INSTALLATION OF EQUIPMENT IN STRICT ACCORDANCE, AND SHALL MEET THE MOST STRINGENT REQUIREMENTS OF THE FOLLOWING STANDARDS:
- CSA C22.1-12 22ND EDITION OF THE CANADIAN ELECTRICAL CODE 2012.
 GOVERNMENT OF NUNAVUT'S GOOD BUILDING PRACTICES GUIDELINES SECOND EDITION DECEMBER, 2005.
- ELECTRICAL BULLETINS OFFICE OF THE NUNAVUT FIRE MARSHALL TECHNICAL BULLETINS.

 VERIFY WITH THE ELECTRICAL INSPECTION DEPARTMENT THE ACCEPTABILITY OF ANY PRE-WIRING DONE OUTSIDE

3. DEPARTMENT OF COMMUNITY AND GOVERNMENT SERVICES - PROTECTION SERVICES DIVISION - GN

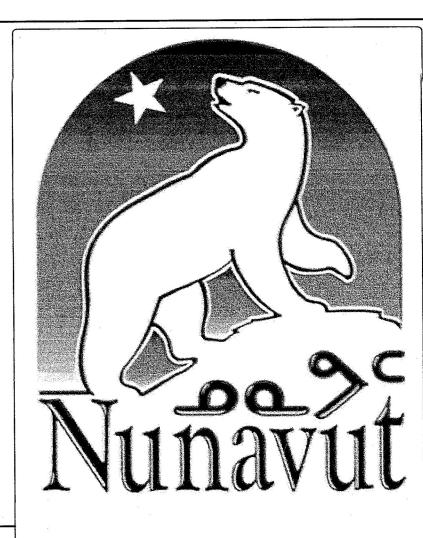
- B. VERIFY WITH THE ELECTRICAL INSPECTION DEPARTMENT THE ACCEPTABILITY OF ANY PRE-WIRING DONE OUTSIDE THE PROVINCE OF NUNAVUT AND ENSURE THAT A PERMIT IS ACQUIRED.
- PROVIDE AND INSTALL NEW 50kW/60kVA, 120/208V, 3Ø, 4W EMERGENCY GENERATOR G1.
- PROVIDE AND INSTALL BATTERY CHARGER AS INDICATED. COMPLETE CONNECTION FROM CHARGER TO BATTERIES
- FEED BLOCK HEATER TERMINAL BOX FROM PANEL DP-A AS INDICATED. REFER TO PANEL SCHEDULE.
- OVERHEAD INCOMING POWER AND COMMUNICATION SERVICE. PROVIDE ONE (1) 38mm RIGID GALVANIZED CONDUIT STUB TO EXTERIOR OF BUILDING FOR SERVICE ENTRANCE AND SEAL.
- PROVIDE MAIN INCOMING FEEDER BREAKER AS INDICATED. REFER TO SINGLE LINE DIAGRAM FOR DETAILS.
- PROVIDE GROUND BUS IN NEW GENERATOR ROOM AS INDICATED. PROVIDE THREE (3) GROUND RODS AS INDICATED.
- CONNECT GROUND RODS TO GROUND BUS WITH #6 COPPER CONDUCTOR IN PVC CONDUIT.

 PROVIDE 120/208V, 3Ø ELECTRIC UNIT HEATER EQUIPPED WITH RELAY BASE AS INDICATED. PROVIDE CONDUIT AND
- PROVIDE 120/208V, 3Ø ELECTRIC UNIT HEATER EQUIPPED WITH RELAY BASE AS INDICATED. PROVIDE CONDUIT AND WIRE TO THERMOSTAT AS INDICATED. COORDINATE CONNECTION WITH MECHANICAL. REFER TO PANEL SCHEDULE FOR CIRCUIT DETAILS. EH—01: 3 kW. EH—02: 5 kW.
- PROVIDE FIRE ALARM CONTROL PANEL AND ASSOCIATED FIRE DETECTING DEVICES AND ALARMS AS INDICATED.
- PROVIDE POWER FROM PANEL <u>DP-A</u> TO CONTROL PANEL <u>CP-01</u> PROVIDED BY DIVISION 23. PROVIDE TWO (2) 27mmC EMT CONDUIT FROM CONTROL PANEL TO WATER PUMP STARTERS TO CONTROL THEIR OPERATION. COORDINATE CONNECTION WITH MECHANICAL.
- PROVIDE TWO (2) STARTERS COMPLETE WITH 50m OF 3 x 4 AWG TECK CABLE FED FROM PANEL <u>DP-A</u> TO FEED WATER PUMPS <u>WP-01</u> AND <u>WP-02</u> AS INDICATED. COORDINATE CONNECTION WITH MECHANICAL. PROVIDE 100A DISCONNECTS IN MAIN PUMPING ROOM.
- PROVIDE HEAT TRACE CONTROLLERS AND 6 x 15A-208V RECEPTACLES TO MATCH THE HEAT TRACE CABLE'S PLUG. PROVIDE GFI BREAKERS ON ASSOCIATED CIRCUITS. REFER TO DETAIL 1/E2.
- PROVIDE POWER FROM PANEL <u>DP-A</u> TO FUEL CONTROL PANEL <u>FCP-01</u> AS INDICATED. TWO (2) FUEL TRANSFER PUMPS AND ONE (1) CONTROL PANEL PROVIDED BY DIVISION 23. FEED EACH PUMP WITH SEPARATE FEEDER FROM CONTROL PANEL IN LIQUID TIGHT FLEX CONDUIT. COORDINATE CONNECTIONS WITH DIVISION 23.
- PROVIDE 120V CIRCUIT TO LOW VOLTAGE TRANSFORMER FOR CONTROL CONNECTIONS PROVIDED BY DIVISION 23. COORDINATE CONNECTIONS WITH MECHANICAL.
- PROVIDE 120V CONNECTION FROM PANEL <u>DP-A</u> TO DAMPER MOTORS AS INDICATED. TYPICAL FOR ALL DAMPER MOTOR CONNECTIONS. MOTORIZED DAMPERS SUPPLIED AND INSTALLED BY DIVISION 23.
- PROVIDE ONE (1) 27mm RIGID PVC CONDUIT FOR CONTROL WIRING FROM FUEL CONTROL PANEL TO MAIN TANK AS INDICATED. COORDINATE CONDUIT RUN WITH MECHANICAL AND STRUCTURAL DIVISION.
- PROVIDE ONE (1) 27mm EMT CONDUIT FOR CONTROL WIRING FROM FUEL CONTROL PANEL TO DAYTANK <u>DT-01</u> AS INDICATED. COORDINATE CONDUIT RUN WITH MECHANICAL.
- PROVIDE PHOTOCELL AS INDICATED TO CONTROL TYPE B EXTERIOR LIGHTS.
- PROVIDE LIGHTING CONTROL CONTACTOR FOR OUTDOOR LIGHTING COMPLETE WITH HAND-OFF-AUTO CONTROL. CONNECT TO PHOTOCELL.
- PROVIDE UNISTRUT CHANNEL COMPLETE WITH TWO (2) 20A OUTLETS AND TWO (2) HP RATED TOGGLE SWITCHES AS INDICATED, TO POWER AND CONTROL THE OPERATION OF MIXER MX-01 AND PUMP TP-01 PROVIDED BY OTHERS. LABEL CIRCUITS ACCORDINGLY. COORDINATE LOCATION WITH WINDOW.
- PROVIDE ONE (1) STARTER COMPLETE WITH WIRE AND CONDUIT AS INDICATED, TO FEED DAMPERS MD-05 AND MD-06. CONNECT TO REMOTE SIGNAL PROVIDED BY DIVISION 23, INTERLOCKED TO ERV-01.
- PROVIDE EIGHT (8) CHANNEL AUTO—DIALER COMMUNICATION MODULE AS INDICATED INCLUDING SIGNAL WIRING IN
- 21mm CONDUIT, AND DRY CONTACTS TO DIAL OUT MAJOR ALARMS AS FOLLOWS:

 ONE PAIR: 3 #14 TO SIGNAL GENERATOR ON

 ONE PAIR: 3 #14 TO SIGNAL GENERATOR TROUBLE/FAILURE
- ONE PAIR: 3 #14 TO SIGNAL LOW BUILDING TEMP
 ONE PAIR: 3 #14 TO SIGNAL FIRE ALARM ACTIVATION
- PROVIDE 200A, 120/208V, 3ø, 4W ATS, COMPLETE WITH SWITCHABLE NEUTRAL...
- PROVIDE FIBREGLASS REINFORCED POLYESTER (FRP) BACKBOXES AND JUNCTION BOXES FOR ALL DEVICES INSTALLED INSIDE THE CHEMICAL ROOM. PROVIDE PVC CONDUIT FOR ALL CIRCUITS ENTERING THE CHEMICAL ROOM.
- PROVIDE SPLIT PARKING RECEPTACLE IN WEATHERPROOF ENCLOSURE ON EXTERIOR WALL OF BUILDING FOR
- MAINTENANCE STAFF.

 PROVIDE POWER FROM PANEL <u>DP-A</u> TO CHLORINE PUMP CONTROLLER <u>CPC-01</u> AS INDICATED. FIVE (5) CHLORINE
- DOSING PUMPS AND ONE (1) CONTROL PANEL PROVIDED BY DIVISION 23. FEED EACH PUMP WITH SEPARATE FEEDER FROM CONTROL PANEL IN LIQUID TIGHT FLEX CONDUIT. COORDINATE CONNECTIONS WITH DIVISION 23.
- PROVIDE 8m OF RAYCHEM TYPE 3BTV1-CR HEAT TRACE CABLING WRAPPED AROUND THE TRUCK FILL ARM.
- CONTROL LIGHT FOR INDICATING SEWAGE TANKS ARE FULL. COORDINATE WITH CONTROLS DIVISION. SEE DRAWING
- PROVIDE CIRCUIT FOR CONTROLS CONNECTION.

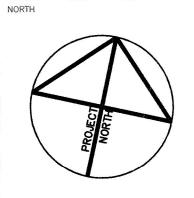


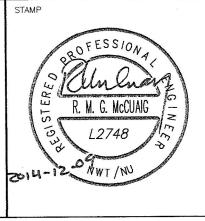
PERMIT TO PRACTICE
BOUTHILLETTE PARIZEAU INC.
Signature

PERMIT NUMBER: P 717

NWT/NU Association of Professional

Engineers and Geoscientists





NOTES: GENERAL CONTRACTOR TO VERIFY ALL DIMENSIONS WITH FINAL ARCHITECTURAL AND MECHANICAL DRAWINGS. NOTIFY THE ENGINEERS OF ANY ERRORS AND/OR OMISSIONS PRIOR TO CONSTRUCTION FOR DIRECTION. DO NOT SCALE THIS DRAWING.

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GOVERNMENT OF NUNAVUT DEPARTMENT OF COMMUNITY AND GOVERNMENT SERVICES

CORAL HARBOUR, NUNAVUT
NEW PUMPING STATION

ELECTRICAL
NEW POWER AND LIGHTING
LAYOUT

design by	A.W.	project no. 8011-116
drawn by	D.O.	drawing no.
checked by	R.M.M.	
date	DECEMBER 2014	
	AS SHOWN	