

LEC	EGEND	
	SYMBOL	DESCRIPTION
	⊴.	METER HEAD
	J.B.	JUNCTION BOX
	0	CONTACTOR
	PC	PHOTOCELL
		BREAKER PANEL
		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 AUTHORITY
NS	•	GROUND ROD
S	<u></u>	GROUND
MOUNTED)	CIRCUIT BREAKER
	\Diamond	REFER TO NOTE 1
	(b)	FIXTURE TYPE 'A'
	GFI	DENOTES GROUND FAULT INTERRUPT
	WP	DENOTES WEATHER PROOF
	<u>-</u>	FIXTURE SCHEDULE
SYMBOL	TYPE	DESCRIPTION
	Á	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	B	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
		100mm VAPOURLIGHT FIXTURE - 1 × 100W, INCANDESCENT LAMP - 120V ELECTRONIC BALLAST

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

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.

PROVIDE AND INSTALL NEW 50kW, 600-120/208V, 30, 4W EMERGENCY GENERATOR G1.

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.

- OVERHEAD INCOMING POWER AND COMMUNICATION SERVICE. PROVIDE ONE (1) 38mm RIGID GALVANIZED CONDUIT STUB TO EXTERIOR OF BUILDING FOR SERVICE ENTRANCE AND SEAL. FEED BLOCK HEATER TERMINAL BOX FROM PANEL $\overline{ ext{DP}- ext{A}}$ AS INDICATED. REFER TO PANEL SCHEDULE.
- PROVIDE MAIN INCOMING FEEDER BREAKER AS INDICATED. REFER TO SINGLE LINE DIAGRAM FOR DETAILS.
- PROVIDE FIRE ALARM CONTROL PANEL AND ASSOCIATED FIRE DETECTING DEVICES AND ALARMS AS NDICATED.
- PROVIDE HEAT TRACE CONTROLLERS AND 6 imes 15a-208V RECEPTACLES TO MATCH THE HEAT TRACE CABLE'S PLUG. PROVIDE GFI BREAKERS ON ASSOCIATED CIRCUITS. REFER TO DETAIL 1/E2.)VIDE POWER FROM PANEL $\overline{DP}-A$ TO FUEL CONTROL PANEL $\overline{FPC}-01$ AS INDICATED. TWO (2) 3 LEX FUEL TRANSFER PUMPS AND ONE (1) CONTROL PANEL PROVIDED BY DIVISION 23. FEED EACH MP WITH SEPARATE FEEDER FROM CONTROL PANEL TO INDIVIDUAL PUMP IN LIQUID TIGHT FLEX. WITH DIVISION 23.
- PROVIDE ONE (1) 27mm RIGID PVC CONDUIT FOR CONTROL WRING FROM FUEL CONTROL PANEL TO MAIN TANK AS INDICATED. COORDINATE CONDUIT RUN WITH MECHANICAL. PROVIDE ONE (1) 27mm EMT CONDUIT FOR CONTROL WRING FROM FUEL CONTROL PANEL TO DAYTANK DT-01 AS INDICATED. COORDINATE CONDUIT RUN WITH MECHANICAL.

GOVERNMENT OF NUNAVUT DEPARTMENT OF COMMUNITY AND GOVERNMENT SERVICES

- ROVIDE PHOTOCELL AS INDICATED TO CONTROL TYPE B EXTERIOR LIGHTS.
 ROVIDE LIGHTING CONTROL CONTACTOR COMPLETE WITH HAND-OFF-AUTO CONTROL. CONNECT TO HOTOCELL. ROVIDE UNISTRUT CHANNEL COMPLETE WITH TWO (2) 20A OUTLETS AND TWO (2) HP RATED TOGGLE WITCHES AS INDICATED, TO POWER AND CONTROL THE OPERATION OF MIXER <u>MX—01</u> AND PUMP 2<u>—01</u> PROVIDED BY OTHERS. LABEL CIRCUITS ACCORDINGLY.
- PROVIDE FOUR (4) 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 LOW BUILDING TEMP

 ONE PAIR: 3 #14 TO SIGNAL FIRE ALARM ACTIVATION ROVIDE ONE (1) HAND-OFF-AUTO COMBINATION MAGNETIC STARTER COMPLETE WITH WIRE AND ONDUIT AS INDICATED, TO FEED DAMPERS MD-05 AND MD-06. CONNECT TO REMOTE SIGNAL ROVIDED BY DIVISION 23 AND INTERLOCK TO HRV-01.

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.

AS SHOWN

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- VAPOURLIGHT, FULLY ENCLOSED AND GASKETED VAPOURLIGHT, FULLY ENCLOSED AND GASKETED WEATHERPROOF, IN DIE-CAST ALUMINUM CLEAR GLASS PENDANT GLOBE C/W CAST ALUMINUM GUARD COORDINATE SUPPORT HARDWARE W/ ARCHITECT
- PROVIDE AND INSTALL BATTERY CHARGER AS INDICATED. COMPLETE CONNECTION FROM CHARGER TO BATTERIES AT GENERATOR.
- PROVIDE 3kW, 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. 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.

ISSUED FOR 75%

REVIEW

22/03/2013

06/12/2013

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ISSUED FOR 90% REVIEW

- PROVIDE POWER FROM PANEL $\overline{\rm DP-A}$ TO CONTROL PANEL $\overline{\rm CP-O1}$ PROVIDED BY DIVISION 23. PROVIDE TWO (2) 27mmC EMT CONDUIT FROM CONTROL PANEL TO WATER PUMP STARTERS TO CONTROL THEIR DPERATION. COORDINATE CONNECTION WITH MECHANICAL.
- OVIDE TWO (2) HAND-OFF-AUTO COMBINATION MAGNETIC STARTERS COMPLETE WITH 50m OF 3 \times AWG TECK CABLE FED FROM PANEL DP-A TO FEED WATER PUMPS WP-01 AND WP-02 AS MPING COORDINATE CONNECTION WITH MECHANICAL. PROVIDE 100A DISCONNECTS IN MAIN MPING ROOM.
- PROVIDE COMPLETE 120V CONNECTION FROM PANEL $\underline{\mathrm{DP-A}}$ TO DAMPER MOTORS AS INDICATED. TYPICAL FOR ALL DAMPER MOTOR CONNECTIONS. MOTORIZED DAMPERS SUPPLIED AND INSTALLED BY DIVISION 23. PROVIDE 120V CIRCUIT TO LOW VOLTAGE TRANSFORMER FOR CONTROL CONNECTIONS PROVIDED BY DIVISION 23. COORDINATE CONNECTIONS WITH MECHANICAL.
- NEW

REPULSE BAY, NUNAVUT NEW PUMPING STATION ELECTRICAL
POWER AND LIGHTING
LAYOUT

		_bpa	***
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