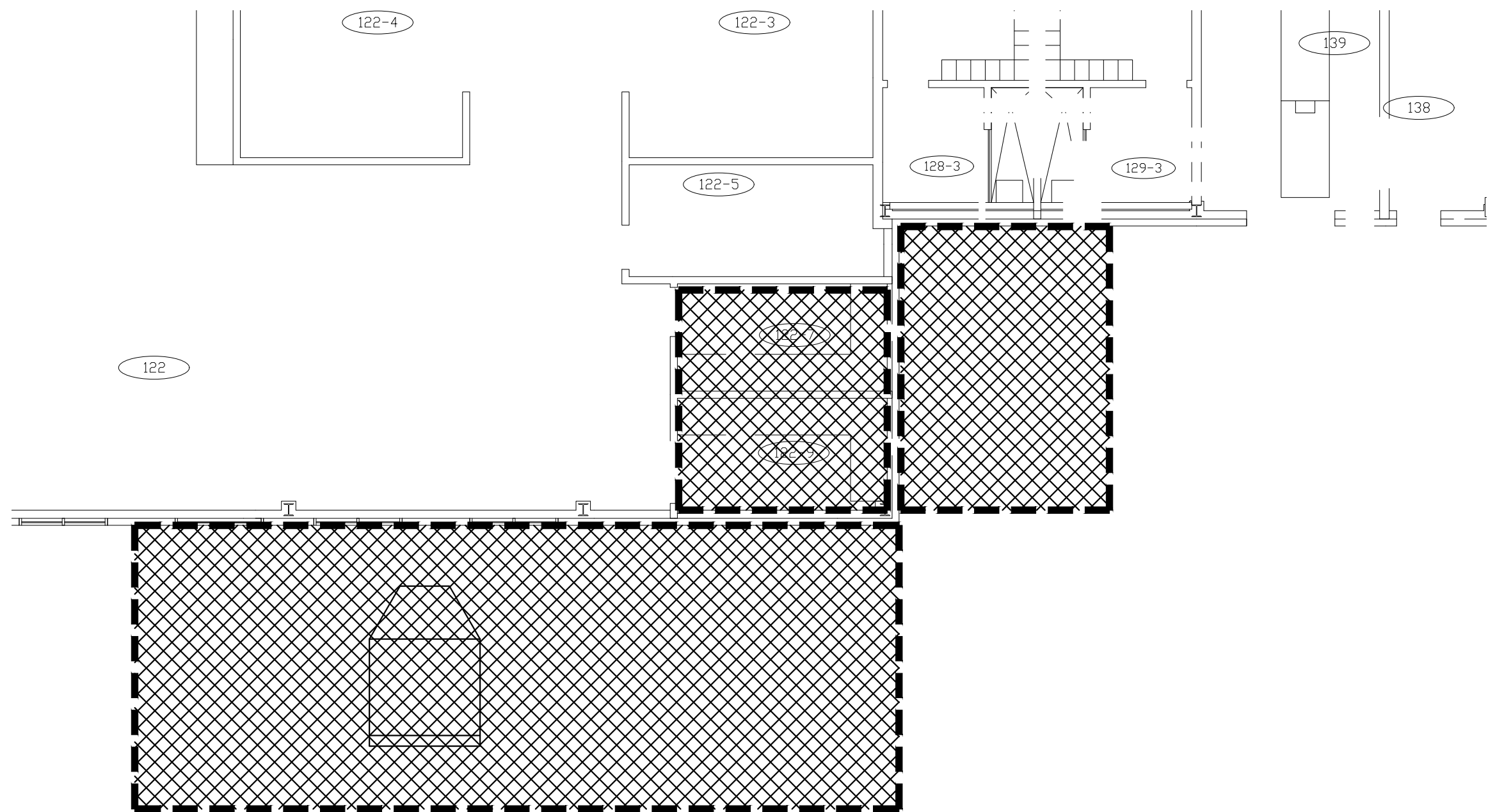


**1 NEW POWER LAYOUT**  
SCALE : 1:100

EQUIPMENT LIST						
TAG	DESCRIPTION	VOLTAGE	PHASE	KW/HP	FEEDER	REMARKS
EF-11-B1	EXHAUST FAN	120V	1	0.25 HP	EXISTING	SEE NOTE 1
EF-11-B2	EXHAUST FAN	120V	1	0.25 HP	EXISTING	SEE NOTE 1
DC-01	DUST COLLECTOR	600V	3	30 KW (40HP)	3C-#8AWG + 1-#10AWG BOND IN 27mm CONDUIT	PROVIDE CONDUIT AND WIRING FROM PULSE CONTROLLER TO SOLENOID VALVE ENCLOSURE(S)



**2 HAZARDOUS AREA LAYOUT**  
SCALE : 1:100

LEGEND

- DISCONNECT SWITCH
- MOTOR (SINGLE PHASE)
- MOTOR (THREE PHASE)
- DIRECT CONNECTION
- PANELBOARD
- HAND-OFF-AUTO MOTOR STARTER

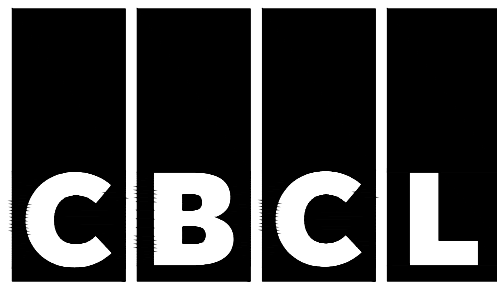
ANNOTATIONS

- E EXISTING
- N NEW
- WP WEATHERPROOF
- EX CLASS 2 ZONE 1 RATED



NOTES

- REMOVE EXISTING ELECTRICAL CONNECTIONS TO EXISTING EXHAUST FANS BETWEEN MOTOR STARTER SWITCHES AND FAN MOTORS. REUSE EXISTING CIRCUITS TO FEED NEW EXHAUST FANS EF-11-B1 AND EF-11-B2.
- REMOVE EXISTING ELECTRICAL CONNECTION, WIRING, CONDUIT c/w ALL FITTINGS, COUPLINGS ETC BACK TO ORIGIN.
- FEED NEW DUST COLLECTION SYSTEM FROM 75A, 3P-BREAKER IN PANEL DP1. PROVIDE ALL ADDITIONAL CONDUIT AND WIRING TO ENSURE PROPER OPERATION OF DUST COLLECTION SYSTEM.
- PARTIAL ELECTRICAL ROOM LAYOUT, LOCATIONS OF EQUIPMENT ARE APPROXIMATE AND TO BE VERIFIED ON SITE.
- WIRING FROM NEW MOTOR SWITCH TO EXHAUST FAN TO BE TECK CABLE AND RUN ABOVE CEILING OF 122-7/122-9. WIRING FROM DISCONNECT SWITCH TO MOTORS TO BE TECK CABLE.
- PROVIDE ELECTRICAL DISCONNECT SWITCH.
- PROVIDE ELECTRICAL DISCONNECT SWITCH. MOUNT 1000mm AWAY FROM NEW EXHAUST FAN MOTOR. WIRING FROM DISCONNECT SWITCH TO MOTOR TO BE TECK CABLE.
- PROVIDE 120V CONNECTION AND FEED TO HIGH SPEED ABORT GATE CONTROL PANEL FROM NEW 15A BREAKER LOCATED IN PANEL A. CONTROL PANEL PROVIDED BY OTHERS.
- PROVIDE 120V CONNECTION AND FEED TO SPARK DETECTION CONTROL PANEL FROM NEW 15A BREAKER LOCATED IN PANEL A. CONTROL PANEL PROVIDED BY OTHERS.
- PROVIDE 120V CONNECTION AND FEED TO EXPLOSION ISOLATION VALVE CONTROL PANEL FROM NEW 15A BREAKER LOCATED IN PANEL A. CONTROL PANEL PROVIDED BY OTHERS.
- WIRING FROM DISCONNECT SWITCH TO DUST COLLECTOR MOTOR TO BE TECK CABLE.
- PROVIDE HAND-OFF-AUTO (HOA) TYPE MOTOR STARTERS FOR EF-11-B1, AND EF-11-B2. REFER TO MECHANICAL CONTROLS SECTION C ON DRAWING M03 FOR EQUIPMENT LOCATIONS. REFER TO CONTROLS DETAIL 3 ON DRAWING M04. WOUND TIMERS ARE PROVIDED BY MECHANICAL TRADE.



THE ASSOCIATION OF PROFESSIONAL ENGINEERS OF THE PROVINCE OF PRINCE EDWARD ISLAND  
Randy O'Connor  
No. 1275  
DATE: FEB 12, 2021  
LICENSED PROFESSIONAL ENGINEER  
PROVINCE OF PRINCE EDWARD ISLAND

0 ISSUED FOR TENDER FEB/12/2021

revisions date

project project

A AFC HARRINGTON  
DUST COLLECTION  
UPGRADE  
HARRINGTON  
QUEENS CO. PE

drawing dessin

ELECTRICAL  
POWER LAYOUT

designed C. DUPUIS conçu

date NOVEMBER 2020

drawn K. DOMOKOS dessiné

date NOVEMBER 2020

approved approuvé

date

Tender Soumission

PWGSC Project Manager Administrateur de projets TPSGC

project number no. du projet

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E01