

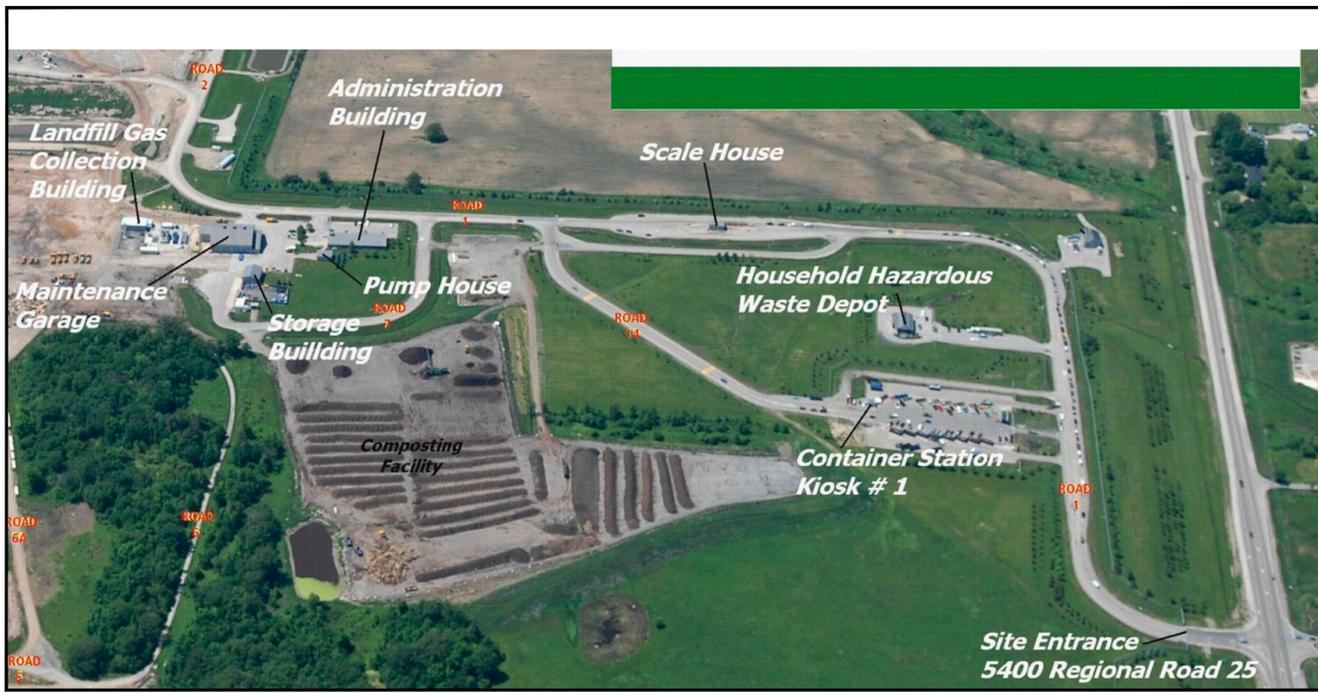
ELECTRICAL DRAWING LIST	
E0.00	GENERAL NOTES, DRAWING LIST AND LEGENDS
E1.00	STORAGE BUILDING & LANDFILL GAS COLLECTION BUILDING FIRE ALARM PROPOSED PLAN
E2.00	FIRE ALARM RISER DIAGRAM
E3.00	EXIT SIGNS DEMOLITION/PROPOSED PLANS & ELECTRICAL DETAILS

- GENERAL NOTES**
- DO NOT SCALE DRAWINGS FOR INSTALLATION PURPOSES. OBTAIN ALL DIMENSIONS FROM DRAWINGS, MANUFACTURER'S SHOP DRAWINGS, AND ON SITE INSPECTIONS.
  - PRIOR TO INSTALLATION OF BOXES IN WALLS, VERIFY THAT NO INTERFERENCES EXIST.
  - ELECTRICAL TRADES SHALL WORK IN CONJUNCTION WITH EACH OTHER SO AS TO AVOID INTERFERENCES BETWEEN PIPING, DUCTWORK, CONDUIT, LIGHTING FIXTURES, ETC.
  - WORK IN CONJUNCTION WITH THE EXISTING LIGHT LOCATION ON SITE.
  - REVIEW THE ELECTRICAL DRAWINGS AND PROVIDE ON SITE INSPECTIONS TO DETERMINE FULL EXTENT OF PROJECT PRIOR TO SUBMITTING BID.
  - ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE ONTARIO BUILDING CODE (OBC), ONTARIO ELECTRICAL SAFETY CODE (OESC) AND THE LOCAL AUTHORITIES REQUIREMENTS.
  - THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION WITH THE WORK OF OTHER TRADES. PROVIDE HORIZONTAL AND/OR VERTICAL OFFSETS AS REQUIRED TO SUIT THIS COORDINATION.
  - ALL WIRING SHALL BE A MINIMUM #12 AWG IN CONDUIT SUITABLE FOR THE APPLICATION.
  - AC90 (BX) SHALL ONLY BE ALLOWED FOR SHORT RUNS OF LESS THAN 5 FEET IN LENGTH, UNLESS OTHERWISE NOTED.
  - ALL MATERIALS SHALL BEAR A CSA (CANADIAN STANDARDS ASSOCIATION) LABEL.
  - ELECTRICAL SWITCHES, OUTLETS, PUSH-BUTTONS ETC. SHALL COMPLY WITH ACCESSIBILITY FOR ONTARIANS WITH DISABILITIES ACT (AODA) FOR MOUNTING HEIGHTS AND LOCATION WHERE APPLICABLE.
  - PROVIDE FIRE-STOP MATERIAL AS REQUIRED FOR ALL WALL PENETRATIONS TO MAINTAIN THE SMOKE SEAL AND FIRE RATING. FOR RECESSED JUNCTION BOXES USE HILT - FIRE BLOK.
  - UPON THE COMPLETION OF THE CONTRACT, ISSUE A FORMAL CERTIFICATE INDICATING THE DATE OF COMPLETION OF WORK. REPAIR OR REPLACE ANY DEFECTS WHICH MAY APPEAR IN ANY OF THE WORK WITHIN ONE (1) YEAR.

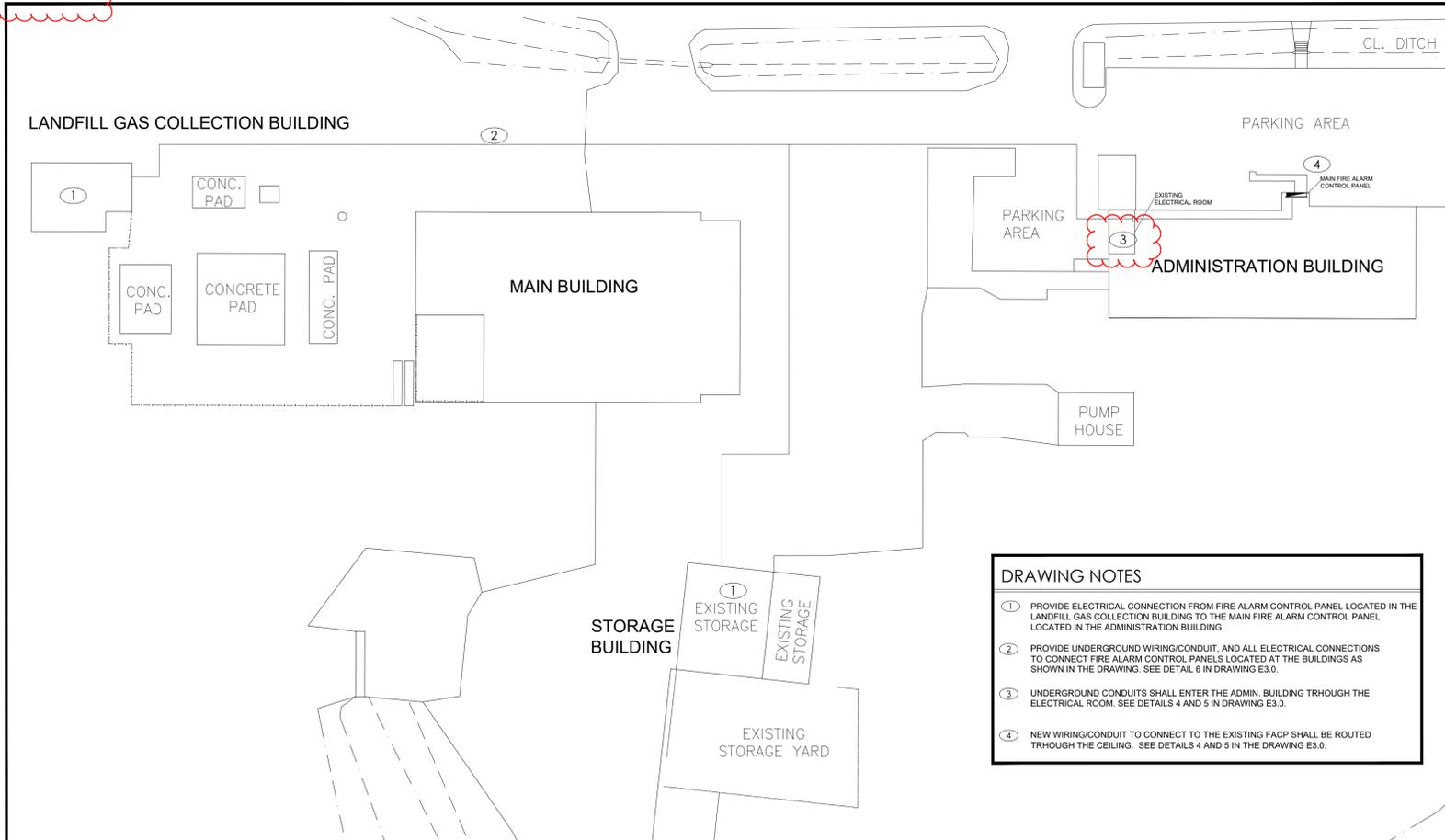
LEGEND - FIRE ALARM SYSTEM	
THIS LEGEND OF SYMBOLS REPRESENTS MANTECON PARTNERS INC. STANDARD LEGEND. ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS.	
SYMBOL	DESCRIPTION
	BELL AND STROBE - WALL
	HORN - WALL
	STROBE - CEILING
	FIRE ALARM PULLSTATION
	HORN AND STROBE - WALL
	SMOKE DETECTOR - CEILING
	HEAT DETECTOR - CEILING
	FIRE ALARM/ANNUNCIATOR PANEL
	END OF LINE RESISTOR
	EXIT SIGN - SINGLE FACE - WALL
	BATTERY PACK - WALL

EXIT SIGNS SCHEDULE										
TYPE	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	VOLTAGE AC (V)	VOLTAGE DC (VDC)	LAMP BASE	LAMP TYPE	LAMP WATTS	EQUIVALENT ACCEPTED	COMMENTS
EX1	STANPRO	SLEXH-1GY-UDC12V	SLEXH SERIES EXIT SIGN, 120VAC/12VDC ELECTRICAL POWER, LED LIGHT	120	12	-	LED	2.8	YES	
EX2	STANPRO	RMS-1GY-UDC12V	STEEL RUNNING MAN SIGN, 120VAC/12VDC, LED LIGHT	120	12	-	LED	1.9	YES	
BU1	STANPRO	SLB12100-0GY	12VDC/100W BATTERY UNIT (NO HEADS), 120/347VAC INPUT.	120	12				YES	

LEGEND - ABBREVIATION	
THIS LEGEND OF SYMBOLS REPRESENTS MANTECON PARTNERS INC. STANDARD LEGEND. ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS.	
SYMBOL	DESCRIPTION
R	REMOVE
R/R	REMOVE AND REINSTALL
ER	EXISTING TO BE RELOCATED
EX	EXISTING TO REMAIN
GFI	GROUND FAULT INTERRUPT

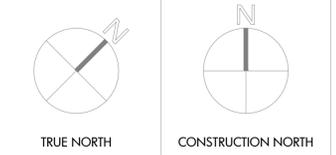


1 SITE MAP  
SCALE: NTS



2 SITE PLAN  
SCALE: 1:500

- DRAWING NOTES**
- PROVIDE ELECTRICAL CONNECTION FROM FIRE ALARM CONTROL PANEL LOCATED IN THE LANDFILL GAS COLLECTION BUILDING TO THE MAIN FIRE ALARM CONTROL PANEL LOCATED IN THE ADMINISTRATION BUILDING.
  - PROVIDE UNDERGROUND WIRING/CONDUIT, AND ALL ELECTRICAL CONNECTIONS TO CONNECT FIRE ALARM CONTROL PANELS LOCATED AT THE BUILDINGS AS SHOWN IN THE DRAWING. SEE DETAIL 6 IN DRAWING E3.0.
  - UNDERGROUND CONDUITS SHALL ENTER THE ADMIN. BUILDING THROUGH THE ELECTRICAL ROOM. SEE DETAILS 4 AND 5 IN DRAWING E3.0.
  - NEW WIRING/CONDUIT TO CONNECT TO THE EXISTING FACP SHALL BE ROUTED THROUGH THE CEILING. SEE DETAILS 4 AND 5 IN THE DRAWING E3.0.



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2	ISSUED FOR PERMIT	2024-05-07	A.S.
1	ISSUED FOR 80 % REVIEW	2024-02-22	F.S.



CLIENT  
Regional Municipality of Halton

PROJECT:  
FIRE ALARM REPLACEMENT  
5400 REGIONAL RD 25,  
MILTON ON  
LANDFILL GAS COLLECTION  
BUILDING

DRAWING TITLE:  
GENERAL NOTES, DRAWING LIST  
AND LEGENDS

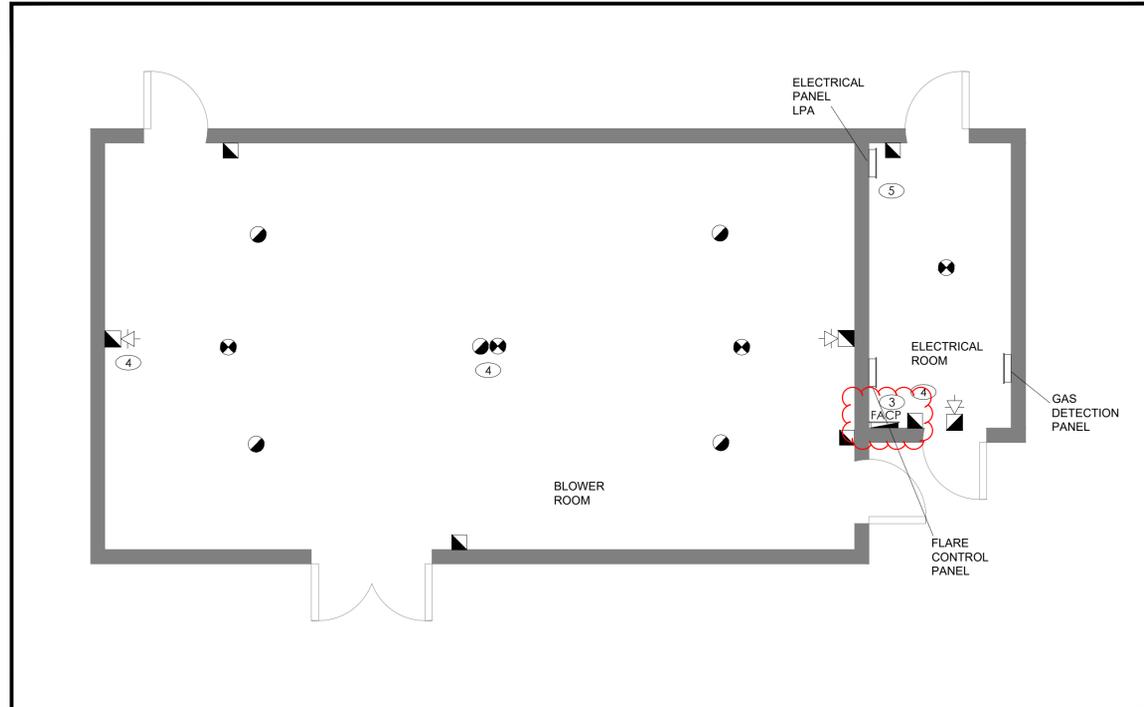
DRAWN BY: A.S.	SCALE: AS INDICATED
CHECKED BY: N.A.	DRAWING NUMBER: E0.00
DATE: JAN-2024	PROJECT NUMBER: 23-119A

**DRAWING NOTES**

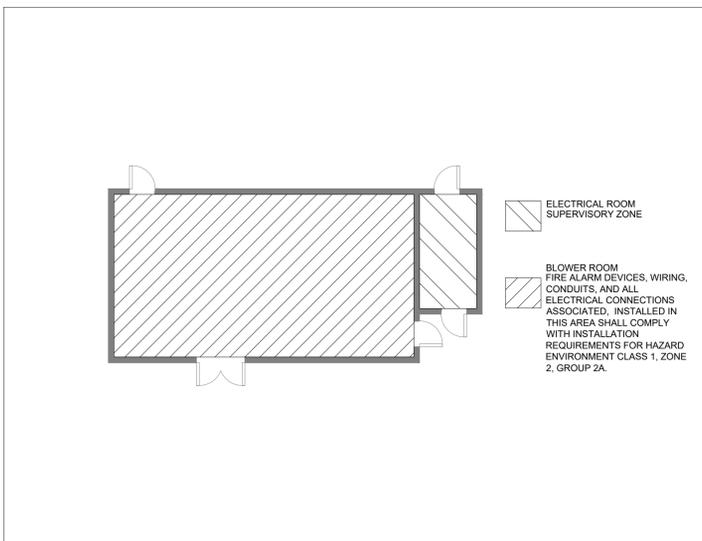
- ① THE SCOPE OF WORK EXCLUDES THE ADMINISTRATION BUILDING, HOWEVER THE EXISTING MAIN FIRE ALARM CONTROL PANEL AND REMOTE ANNUNCIATOR ARE LOCATED IN THE ADMINISTRATION BUILDING WHICH IS CONNECTED WITH THE STORAGE BUILDING & LANDFILL GAS COLLECTION BUILDING.
- ② ENSURE EACH NEW SUB FIRE ALARM CONTROL PANEL INSTALLED IS CONNECTED BACK TO THE EXISTING MAIN FIRE ALARM CONTROL PANEL (EDWARDS - FIRE SHIELD) IN THE ADMINISTRATION BUILDING USING THE NEW COMMUNICATION LINK. UPON ACTIVATION OF ANY SUB FIRE ALARM CONTROL PANEL, THE EXISTING MAIN FIRE ALARM CONTROL PANEL SHALL PROVIDE A SIGNAL TO THE FIRE DEPARTMENT.
- ③ PROVIDE NEW SINGLE STAGE FIRE ALARM PANEL, SURFACE MOUNTED, CONVENTIONAL OR ADDRESSABLE TYPE, AND ULC APPROVED.
- ④ PROVIDE NEW FIRE ALARM DEVICES (ULC APPROVED) AS SHOWN IN THE DRAWING. DETAILS, SPECIFICATIONS, AND FINAL LOCATION TO BE DETERMINED.
- ⑤ PROVIDE NEW TANDEM BREAKERS 15A1P TO REPLACE ONE OF THE EXISTING 15A1P BREAKERS IN THE ELECTRICAL PANEL LPA, MAKING POSSIBLE TO FEED THE NEW FIRE ALARM CONTROL PANEL.
- ⑥ PROVIDE NEW 15A1P CIRCUIT BREAKER, IN THE EXISTING ELECTRICAL PANEL, TO FEED FIRE ALARM CONTROL PANEL.



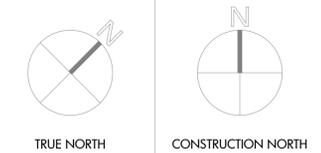
① STORAGE BUILDING FIRE ALARM PROPOSED PLAN  
SCALE: 1:80



② LANDFILL GAS COLLECTION BUILDING FIRE ALARM PROPOSED PLAN  
SCALE: 1:80



③ HAZARDOUS CLASSIFICATION PLAN  
SCALE: 1:80



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CLIENT  
Regional Municipality of Halton

PROJECT:  
FIRE ALARM REPLACEMENT  
5400 REGIONAL RD 25,  
MILTON ON

DRAWING TITLE:  
STORAGE BUILDING & LANDFILL  
GAS COLLECTION BUILDING FIRE  
ALARM PROPOSED PLAN

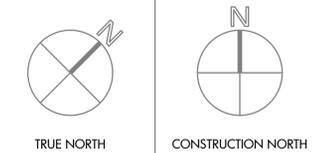
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CHECKED BY: N.A	DRAWING NUMBER: E1.0
DATE: JAN-2024	
PROJECT NUMBER: 23-119	

File: J:\Drawings\23-119 - Fire Alarm Systems - Storage Building and Landfill Gas Collection Building at HWMS - Halton Region\3-Working Documents\E-20240814\_FOR\_ADDENDUM\E1.0-E3.4-FA\_PROP\_PLANS & DETAILS.dwg

**DRAWING NOTES**

① SUPPLY AND INSTALL A NEW SINGLE STAGE FIRE ALARM PANEL, SURFACE MOUNTED, CONVENTIONAL OR ADDRESSIBLE TYPE, AND ULC APPROVED.

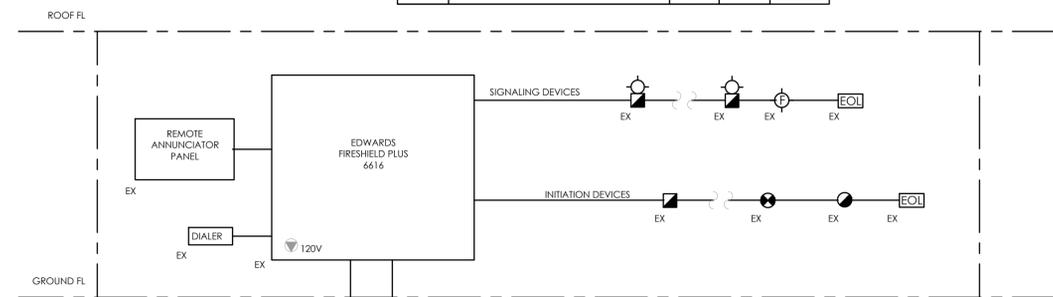
② PROVIDE NEW ALARM SIGNAL FROM GAS DETECTION PANEL AND FLARE CONTROL PANEL TO THE FIRE ALARM CONTROL PANEL, AS SHOWN IN THE DRAWING.



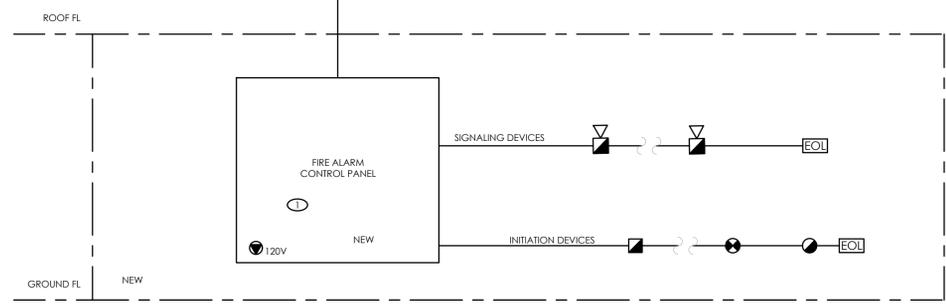
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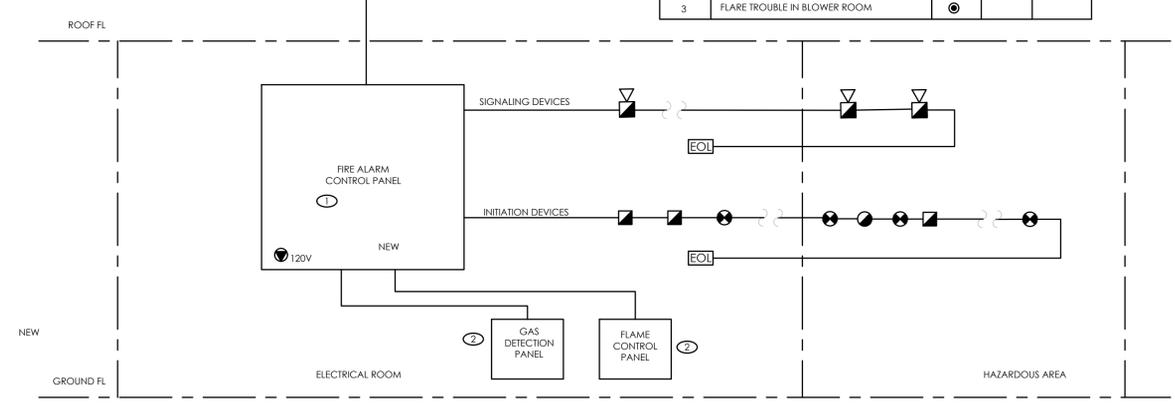
FIRE ALARM ZONE SCHEDULE		NOTIFICATION LED		
ZONE	DESCRIPTION	ALARM	TROUBLE	SUP/MON
1	MAINTENANCE GARAGE EX	●		
2	PUMP HOUSE EX	●		
3	SCALE HOUSE EX	●		
4	CONTAINER STATION EX	●		
5	ADMIN OFFICE EX	●		
6	TRANSFER STATION EX	●		
7	DUCT SUPPLY EX	●		
8	DUCT RETURN EX	●		
9	STORAGE BUILDING NEW	●		
10	LANDFILL GAS COLLECTION BUILDING NEW	●		



FIRE ALARM ZONE SCHEDULE		NOTIFICATION LED		
ZONE	DESCRIPTION	ALARM	TROUBLE	SUP/MON
1	STORAGE 202 & 203	●		
2	STORAGE 201	●		



FIRE ALARM ZONE SCHEDULE		NOTIFICATION LED		
ZONE	DESCRIPTION	ALARM	TROUBLE	SUP/MON
1	GAS DETECTOR IN BLOWER ROOM	●		
2	GAS DETECTOR IN ELECTRICAL ROOM	●		
3	FLARE TROUBLE IN BLOWER ROOM	●		



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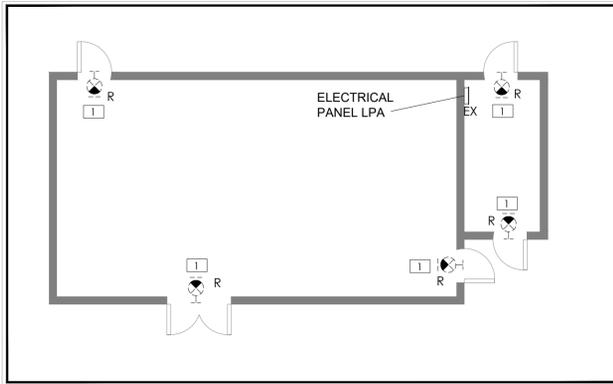
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PROJECT:  
FIRE ALARM REPLACEMENT  
5400 REGIONAL RD 25,  
MILTON ON

DRAWING TITLE:  
FIRE ALARM RISER DIAGRAM

DRAWN BY: F.S	SCALE: AS INDICATED
CHECKED BY: N.A	DRAWING NUMBER: E2.0
DATE: JAN-2024	
PROJECT NUMBER: 23-119	

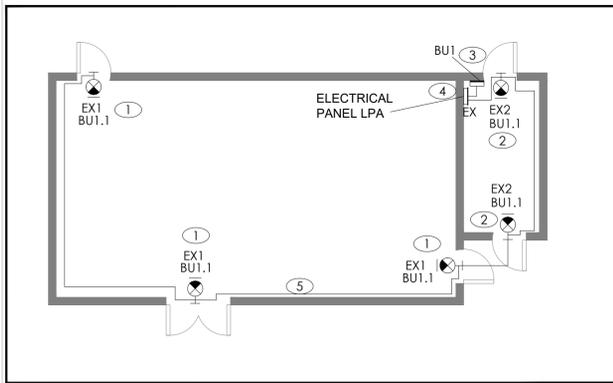
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1 EXIT SIGNS DEMOLITION PLAN  
SCALE: 1:150

**DEMOLITION NOTES**

1 DEMOLISH AND REMOVE THE EXISTING EXIT SIGNS FROM THE BLOWER ROOM AND ELECTRICAL ROOM. REMOVE BACK ALL ELECTRICAL CONNECTIONS FROM THE EXIT SIGNS BACK TO THE SOURCE, IF APPLICABLE, AND MAKE IT SAFE FOR REUSE.



2 EXIT SIGNS PROPOSED PLAN  
SCALE: 1:150

**DRAWING NOTES**

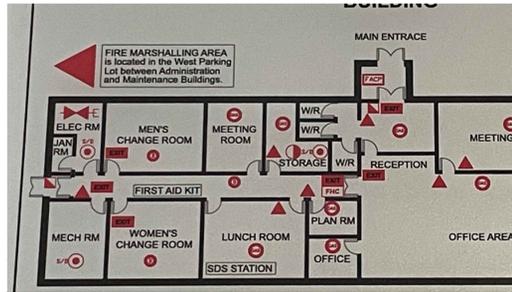
1 PROVIDE NEW EXIT SIGNS IN THE BLOWER ROOM, WIRING/CONDUITS, AND ALL ASSOCIATED ELECTRICAL CONNECTIONS FOR THE INSTALLATION OF THESE DEVICES. EXIT SIGNS FOR THIS ROOM SHALL COMPLY WITH INSTALLATION REQUIREMENTS FOR HAZARD ENVIRONMENT CLASS 1, ZONE 2, GROUP 2A.

2 PROVIDE NEW EXIT SIGNS IN THE ELECTRICAL ROOM, WIRING/CONDUITS, AND ALL ASSOCIATED ELECTRICAL CONNECTIONS FOR THE INSTALLATION OF THESE DEVICES.

3 PROVIDE NEW BATTERY UNIT IN THE ELECTRICAL ROOM, WIRING/CONDUITS, AND ALL ASSOCIATED ELECTRICAL CONNECTIONS FOR BRANCH CIRCUIT OF THE BATTERY TO THE EXISTING ELECTRICAL PANEL LPA.

4 VERIFY AND CONFIRM AVAILABLE SPACE IN THE ELECTRICAL PANEL LPA TO PROVIDE NEW CIRCUIT BREAKER/WIRING/CONDUIT, AND ALL ASSOCIATED ELECTRICAL CONNECTIONS TO CONNECT THE NEW BATTERY UNIT TO THE EXISTING ELECTRICAL PANEL LPA. USE OF TANDEM BREAKER IS ACCEPTABLE FOR THE NEW BATTERY CIRCUIT IF THERE IS NO SPACE AVAILABLE.

5 VERIFY AND CONFIRM AVAILABLE SPACE IN THE ELECTRICAL PANEL LPA TO PROVIDE NEW CIRCUIT BREAKER/WIRING/CONDUIT, AND ALL ASSOCIATED ELECTRICAL CONNECTIONS TO CONNECT THE NEW EXIT SIGNS TO THE EXISTING ELECTRICAL PANEL LPA. USE OF TANDEM BREAKER IS ACCEPTABLE FOR THE NEW BATTERY CIRCUIT IF THERE IS NO SPACE AVAILABLE.



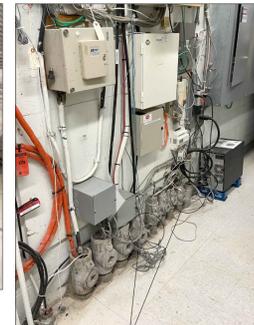
4 ADMINISTRATION BUILDING LAYOUT  
SCALE: N.T.S.



CONFIRM IF AVAILABLE EXISTING UNDERGROUND CONDUITS LOCATED IN THE ELECTRICAL ROOM (ADMINISTRATION BUILDING) ARE SUITABLE FOR WORK.



CLOSE-UP OF EXISTING CONDUIT. CONFIRM IF IT IS SUITABLE FOR WORK.



EXISTING CONDUITS. CONFIRM IF SUITABLE FOR WORK.



NEW WIRING/CONDUITS TO EXISTING FACP SHALL BE ROUTED THROUGH THE CEILING.

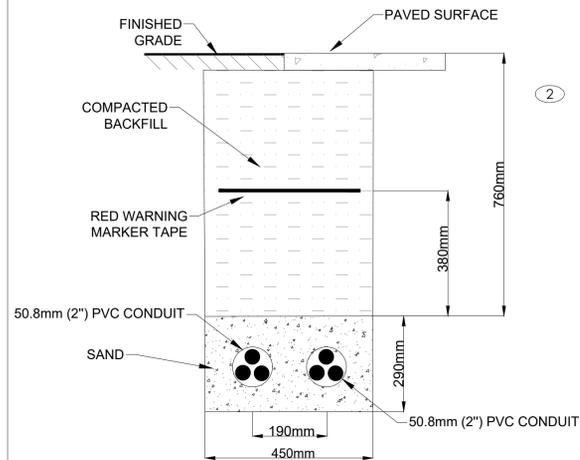
5 PICTURES OF CONDUITS IN THE ADMIN. BUILDING ELECTRICAL ROOM  
SCALE: N.T.S.



EXISTING EXIT SIGNS IN THE LANDFILL GAS COLLECTION BUILDING, BLOWER ROOM.

ONE OF THE EXISTING EXIT SIGNS, IN THE ELECTRICAL ROOM.

3 ADMINISTRATION BUILDING LAYOUT  
SCALE: N.T.S.



**TRENCH NOTES**

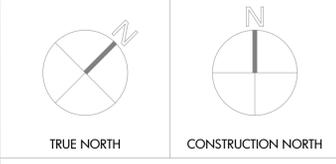
1 PROVIDE 25 MPA CONCRETE ENVELOP.

2 15M CONTINUOUS REINFORCING BARS.

3 MOLDED PLASTIC INTERLOCKING DUCT SPACERS @ 1500MM INTERVALS ALONG ENTIRE LENGTH OF DUCTBANK.

4 1200MM LONG - 10M REINFORCING BARS REQUIRED AS DOWELLING BETWEEN NON-CONTINUOUS POURS - 4 REQUIRED.

6 TRENCH DETAILS  
SCALE: N.T.S.



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CLIENT  
Regional Municipality of Halton

PROJECT:  
FIRE ALARM REPLACEMENT  
5400 REGIONAL RD 25,  
MILTON ON

DRAWING TITLE:  
EXIT SIGNS  
DEMOLITION/PROPOSED PLANS  
& ELECTRICAL DETAILS

DRAWN BY:  
F.S

CHECKED BY:  
N.A

DATE:  
JAN-2024

PROJECT NUMBER:  
23-119

SCALE:  
AS INDICATED

DRAWING NUMBER:  
E3.0