Peel Region

Wednesday, July 2, 2025

DOCUMENT - 2025-366T
HELIPORT RETROFIT IMPLEMENTATION AT 13653 MCLAUGHLIN ROAD, CHELTENHAM, PEEL REGIONAL POLICE FACILITY
ADDENDUM 2

Number of Pages: 12 + Drawings (9 pages)

Referring to the above Document 2025-366T - Heliport Retrofit Implementation at 13653 McLaughlin Road, Cheltenham, Peel Regional Police Facility, please note the following:

1. **General**

The following updates were made to the online bid form:

Table 4 Non – Airside:

- Added line item for all exterior electrical work All exterior electrical work excluding “airside” electrical works detailed in Table 3 or in cash allowances
- Added line item for disconnect and de-commissioning of existing fuel tank in preparation for owner sale and haul away by 3rd party
- Added line item for alternate price for installation of equipment charging backboard at alternate location
- Added line item for replacement of existing main electrical splitter and disconnects with new distribution panel

Table 5 – Cash Allowances

- Clarified line item 5 to be for equipment supply only.
- Added line item 6 for new fuel tank supply and install

List of Suppliers and Subcontractors

- Removed: Shoring, Dewatering, Restoration, Instrumentation, and SCADA

2. **Mechanical:**

Drawing M102

- Existing Exhaust Fan EF-104, existing exhaust Louver and existing intake Louver LV-102 to remain.
- New Exhaust Fan EF-106 complete with Louver LV-106 to be located beside existing EF-104.
- Existing Louver LV-101 to remain.

- New intake Louver LV-108 complete with Motorized Damper MD-108 to be located beside existing LV-101.
- New intake Louver LV-106 complete with Motorized Damper MD-106 to be located beside existing LV-102.

Drawing M103, (see attached drawing for details)

- Existing Exhaust Fan EF-103 and existing exhaust Louver to remain.

Drawing M104, (see attached drawing for details)

- New Exhaust Fan EF-107 complete with Louver LV-107 to be located beside existing EF-103.

Drawing M701, (see attached drawing for details)

- Motorized damper schedules:
  .1 MD-101 tag number changed to MD-106
  .2 MD-102 tag number changed to MD-108
- Fan Schedules:
  .1 EF-103 tag number changed to EF-106
  .2 EF-107 tag number changed to EF-107

3. **Electrical:**

Drawing E-101 (see attached drawing for details)

- Clarified circuiting and labelling for new exhaust fan and damper
- Added new panelboard Panel ‘D’
- Revised circuiting for devices in Van Storage area to be fed from Panel ‘D’ in lieu of Panel ‘B’
- Added disconnects to plan for Panels ‘U’ and ‘B’
- Revised location of Equipment Charging Station and associated devices
- Added alternate pricing for installation of Equipment Charging Station at alternate location. Refer to updated bidding form

Drawing E-103 (see attached drawing for details)

- Clarified circuiting and labelling for new exhaust fan and motorized damper

Drawing E-502 (see attached drawing for details)
New drawing issued

- Added panel schedule for new panelboard Panel ‘D’

Drawing E-601 (see attached drawing for details)

- Updated single line diagram to show new distribution for new Panel ‘D’
- Drawing ES101 (see attached drawing for details)
- Deleted working note #11 as per previous addendum
- Clarified conduit routing in working notes to note start and end points of conduit runs
- Added detail for buried conduits

- Revised nominal dimensions for generator concrete pad.

4. **Attachments:**
   - Revised Drawing M-102 Ground Floor Plan – New & Demolition HVAC (1 – 24x36")
   - Revised Drawing M-103 Second Floor Plan – Demolition HVAC (1 – 24x36")
   - Revised Drawing M-104 Second Floor Plan – New HVAC (1 – 24x36")
   - Revised Drawing M-701 Details & Schedules (1 – 24x36")
   - Revised Drawing ES101 Electrical Site Plan (1 – 24x36")
   - Revised Drawing E-101 Ground Floor – Power Layout (1 – 24x36")
   - Revised Drawing E-103 Second Floor – Power Layout (1 – 24x36")
   - New Drawing E-502 Panel Schedules II (1 – 24x36")
   - Revised Drawing E-601 Single Line Diagram (1 – 24x36")

5. **DELETE**: Specification section 01 45 00 clause 1.2.1 in its entirety.

6. **DELETE**: Instructions to Bidders, item 11.1 in its entirety.

   REPLACE WITH:

   11.1 The Contractor agrees to attain **Substantial Performance of the Work**, by the 29th day of August, in the year 2025, and **Ready-for-Takeover**, by the 6th day of September, in the year 2025 for Phase 1.

   11.2 The Contractor agrees to attain **Substantial Performance of the Work**, by the 12th day of December, in the year 2025, and **Ready-for-Takeover**, by the 29th day of December, in the year 2025 for Phase 2.

7. **DELETE**: SC.2 Article A-1 – THE WORK, item 1 (b) in its entirety.

   REPLACE WITH:

   (b) **delete** everything after "Contract Documents," in paragraph 1.3 and **replace** with the following:
   "attain *Substantial Performance of the Work for Phase 1*, by the 29th day of August, in the year 2025, and *Ready-for-Takeover*, by the 6th day of September in the year 2025, and attain *Substantial Performance of the Work for Phase 2*, by the 12th day of December, in the year 2025, and *Ready-for-Takeover*, by the 29th day of December in the year 2025"

Referring to the above Document 2025-366T - Heliport Retrofit Implementation at 13653 McLaughlin Road, Cheltenham, Peel Regional Police Facility, please note the following responses to questions raised:

Question 1:
List of Suppliers and Subcontractors on Online Bidding System lists Shoring, Dewatering, Restoration, Instrumentation, SCADA which don't seem applicable for this project.

Answer 1:
Not applicable. Online Bidding System has been amended accordingly.

Question 2:
There is electrical civil work shown on drawing ES101 that is neither shown on drawing E101 nor identified in Table 3 of Online Bidding System (i.e. note 5 on drawing ES101 indicates to provide underground empty conduit for security cameras all around perimeter of site; similarly for notes 3, 4 ,6 on same drawing).
2. What is the size, thickness as well as concrete and reinforcing requirements for generator concrete pad (note 7 on drawing ES101).

Answer 2:
Table 4 on the Online Bidding System has been revised to include a line item for the pricing of the work referenced on drawing ES101 for all “landside” electrical work that is not otherwise addressed as a cash allowance or included in Table 3.

Details to follow in a separate addendum regarding conduit and concrete pad.

Question 3:
Clarify / confirm that Cash Allowance #5 for generator includes for both new and temporary generator (drawing E-601).

Answer 3:
Temporary generator is not required by the Client, GC to confirm if otherwise required for construction activities. Cash allowance includes permanent generator, ATS, and connection box to allow for future connection of portable generator and/or portable load bank.

Question 4:
Provide information on base building contractors for following work as a part of mechanical and electrical scope:
- mechanical - controls
- electrical - fire alarm
- communications

Answer 4:
PRP to provide to the successful general contractor the list of PRP-preferred Vendors and required Clearances to be considered.

Question 5:
RFT Document, item 11.1 indicates Ready-for-Takeover date by August 29th, 2025. Please note that due to current market conditions and delivery times, noted date is not feasible. Also, Section 01 32 16.19.1.1.4 indicates Substantial Performance date of July 30th, 2025.

Answer 5:
Project delivery times to be amended as follows:

- Project to be broken into two phases of delivery and substantial performance.

Phase 1 – Substantial Performance date of August 29th, 2025

- All exterior/outdoor works except for the following exclusions to accommodate long lead items:
  - Final installation/connection of generator, ATS, and connection box (all excavation, conduit install, wiring, concrete pad, and supporting works to be completed in phase 1)
  - Installation of new fuel tank and removal of existing fuel tank
- All interior works except for the following exclusions:
  - Installation of fire alarm devices and equipment
  - Installation of new AC/CU unit serving IT closet

Phase 2 – Substantial Performance date of December 12th, 2025

- Final installation/connection of generator, ATS, and connection box
- Installation of new fuel tank and removal of existing fuel tank
- Installation of fire alarm devices and equipment
- Installation of new AC/CU unit serving IT closet

Heliport facility must be operational by no later than December 31, 2025.

Question 6:
What is start date and duration of work described as a part of Cash Allowance #3 - removal of existing fence and provision of new fence?

Answer 6:
Exact scheduling is not yet determined. Work is expected to start mid-August 2025 and run for approximately four (4) weeks, with the exception of the pedestrian and vehicle gates, which will be installed later.

Question 7:
What is delivery date and duration of installation of work described as a part of Cash Allowance #5 - generator, ATS, Load Bank, Connection Box?

Answer 7:
Contractor to make arrangements to collect three (3) quotes from acceptable manufacturers listed in the generator specification section following tender award for these items including cost and lead time. Owner to assist in selecting quote to proceed with. Cash allowance is for equipment supply only of the generator, ATS, and Connection box.

Question 8:
What are the delivery dates of the items indicated as supplied by the Owner:

- heliport perimeter lights,
- obstruction lights,
- illuminated windcone,
- heliport lighting controller

Answer 8:
The lights and controller are expected to be shipped around early July 2025. As of today, the vendor is still waiting on a date for the rest of the items.

Question 9:
Clarify following in regards to Cash Allowances:
Items #1 and #2 listed in Table 5 of Online Bidding System are not listed in Section 01 21 00 Allowances

Answer 9:
Cash allowances to be carried as per online bidding system.

Question 10:
Confirm that Cash Allowance #3 includes for all new fence installation (not just fence gates as indicated in description).

Answer 10:
Cash allowance includes the entire fence and associated gates. Online Bidding System Table 5 has been amended accordingly.

Question 11:
Confirm that Cash Allowance #4 includes for supply and installation of all fence required (i.e. as shown on drawing A-901 and detail 1/C502). Is there any other work part of noted Cash Allowance (noted as 'Non Air-Side Site Work').

Answer 11:
Cash allowance #4 pertains to building signage. Refer to previous response regarding fencing cash allowance.

Question 12:
Section 01 45 00.1.2.1 indicate payment for inspection and testing services from Cash Allowance. Noted Allowance is not identified.

Answer 12:
Specification section 01 45 00 clause 1.2.1 to be deleted.

Question 13:
Clarify requirements / extent of work described as HMAC Paving (Provisional):
- item is noted as Provisional, however it is part of Subtotal of Table 2 of Online Bidding System

Answer 13:
The quantities of Provisional Items may vary significantly, or the item may not be used at all, at the sole discretion of the Owner. The Tenderer shall price these items accordingly and shall not claim any anticipated loss of profit or increased overhead if any or all of these items is deleted, or the quantities are significantly amended.

The anticipated extent of the HMAC Paving (Provisional) is at the interface of the existing HMAC pavement and the new PCC pavement. Ther extent and detail of the proposed implementation of this item is shown on drawing C101 and further detailed in detail 9/C501. Further clarification on the extent of the optional HMAC paving is clarified in Q/A # 14 below.

Question 14:
Detail 2/C501 indicates assembly of existing and proposed pavement structure related to Optional (Provisional) Price. What is extent of noted work (location and total area). Identify quantities for removals, excavation, new granular.

Answer 14:
The optional implementation of HMAC rehabilitation will be determined following tender pricing review. The extent of the HMAC rehabilitation area could be to rehabilitate the two (2) existing Airside HMAC areas with HMAC or PCC following review of the Provisional HMAC Paving item and the PCC Paving Item.

Note that the following items shall be revised to 'PROVISONAL':

- Common Excavation c/w Offsite Disposal OPSS.MUNI 510 is revised to Provisional
- Granular Subbase OPSS.MUNI 206/1004 is revised to Provisional
- Granular Base OPSS.MUNI 206/1004 is revised to Provisional
- PCC Paving c/w Edge Thickening, Reinforcing and Dowel Bars, Finishing, Curing, Joint Sawcutting and Sealing OPSS.MUNI 350 is revised to Provisional

For the purposes of bidding, the Contractor can assume that the Common Excavation, Granular Base and Granular Subbase quantities will at least be as shown in the bid form. PCC Paving could be decreased by 780m2 and HMAC Paving quantity could be as shown in the bid form or reduced to 30t.

Question 15:
Provide specification for sealants (details 3;4;5/C501).

Answer 15:
Specification for sealants is outlined in drawing C503 under **Supply and Place PCC Pavement.**

Question 16:
Confirmation cash allowance for $800,000 is for the Wallace Rampart Fence and gates on the project

Answer 16:
Yes.

Question 17:
Is the contractor to supply the rack or as per drawing E-103 note 16 Rack to be supplied by owner unless noted otherwise?

Answer 17:
Contractor to provide patch panel as indicated on drawing and install in rack. Rack and other rack mounted equipment is supplied by owner and installed by this contractor.

Question 18:
On drawing E-101 Note 12 states to provide 7-foot patch cords quantity shall be total of data/voice ports in the entire project plus 10% spare. Is there a requirement to provide Line cords at the workstation end?

Answer 18:
No.

Question 19:
Are voice cables to terminate on to a BIX field or on patch panels?

Answer 19:
Voice cables to be terminated on patch panel.

Question 20:
How many cables are required for the access points?

Answer 20:
One each.

Question 21:
What is the height of the ground floor?

Answer 21:
Existing height to underside of typical ceiling of ground floor office area is 2870mm. Exact dimensions to be site verified.

Question 22:
No specification for the Photocell/Contactor shown on E-101; who supplies it?

Answer 22:
Photocell and lighting contractor to be supplied and installed by the contractor.

Lighting contactor to be 30A, 600V, 6-pole with a NEMA 1 general purpose enclosure, cover-mounted and factory-wired HAND-OFF-AUTO switch, and 120V control. Acceptable manufacturers: Square “D”, Allen-Bradley, Eaton.

Photocell for general, exterior area lighting to be 120V, SPST, 2000W, weatherproof, adjustable, with gasketed die-cast zinc enclosure and mounting bracket. Approved manufacturer: Tork model # 2101. Approved alternates: Intermatic, Precision, Paragon

Question 23:
Missing First Floor Lighting floor plans; clarify if there is an electrical scope of work.

Answer 23:
There is no first floor lighting scope.

Question 24:
No specification for the New LED strip Light (E-104)

Answer 24:
Refer to legend on sheet E-000.

Question 25:
No specification for the Floor boxes.

Answer 25:
Provide Hubbell Systemone RAFB4 series (or approved equal from Legrand or Leviton) round floor box c/w cover and device plates. Allow for minimum one (1) gang each of AV, power receptacle, and data.

Question 26:
Cash allowance for the Generator Scope of work is contradicting the Generator Scope of work shown on the Electrical Drawings, such as ES-101

Answer 26:
Cash allowance is to include supply of ATS, Generator, and connection box equipment supply only. Include in the base price installation and all other materials including but not limited to conduit, wiring, terminations,

Question 27:
Notes on the ES-101 do not make sense, because rough-ins are not specified as start and end points – and locations.

Answer 27:
Rough-in locations in the field are to be generally located where the working note is placed on the drawing, with exact locations to be coordinated on site.

The following rough-ins are to run back to the IT/Server room from the building exterior: security cameras, card readers, any other security/access control devices.

Working note #6 rough-ins to be run to the closest accessible area within the building and marked as spare for future use.

Question 28:
No Fuel Tank Power requirements shown on the SLD; Provide Electrical Design/Engineering (see below)

Answer 28:
Contractor to allow for 30A, 240V circuit to serve new fuel tank fed from panel A or B. Exact requirements to be confirmed with Fuel Tank shop drawing prior to installation. Existing feed to existing fuel tank to be removed back to source and made safe.

Question 29:
Clarify if existing facility is occupied during construction and if so, if there are any restrictions on working hours (specifically for work inside).

Answer 29:
The existing facility will be occupied from Mon to Fri from 6 am until 5 pm. There are no restrictions on the working hours (specifically on the inside) as the awarded GC and corresponding subcontractors/(sub)trades will require to have PRP security clearances and access cards. Disruptions to building services to be coordinated/scheduled with Owner.

Question 30:
Based on information received during Site Visit (in regards as Generator being part of this Contract and not Cash Allowance), please consider extending closing date for two (2) weeks (request takes in consideration Canada Day holiday and the fact that in lot of businesses there will be extra days holidays during that week). Clarification on generator is required a.s.a.p. so pricing can be procured in timely manner.

Answer 30:
Generator to remain as cash allowance.

Question 31:
Also due to long term delivery for generator as well as some other items (i.e. 'Liebert' ACU and CU) provide more realistic expected completion dates of project.

Answer 31:
Refer to response to question 5.

Question 32:
Drawing M-104 indicates ceiling fan as existing (EX CF-1). Based on site observation, it appears there is no ceiling fan at noted location.

Answer 32:
Owner has retained vendor to install separately. Work is not yet complete.

Question 33:
Clarify / confirm that only location for patch and seal of interior membrane is as shown on picture on drawing A-003-1B.

Answer 33:
Photo shows typical condition. Patch and seal all damaged areas on existing membrane.

Question 34:
Clarify / confirm if existing fuel tank will be removed by others prior construction start. If not, clarify if tank will be emptied of content.

Answer 34:
Scheduling shall be determined with owner for tank to remain operational prior to delivery of new replacement fuel tank. Details for removal as below with the exception that care must be taken during removal/disconnection of all components as the owner has made arrangement for the sale of the existing fuel tank to a 3rd party. Final haul away of fuel tank to be conducted by the 3rd party as arranged by owner.

Existing aboveground Jet A1 fuel storage tank and dispensing cabinet is to be removed in accordance federal and provincial storage tank regulations including:

- *Storage Tank Systems for Petroleum Products and Allied Petroleum Products Regulations SOR-2008/197*, under the Canadian Environmental Protection Act.

The existing storage tank system is a skid mounted 4,500 litre (L) Jet A1 storage tank and fuel-dispensing cabinet. Tank top equipment includes a submersible pump, mechanical meter, emergency vent, thread-on spill container, and hand sample pump. The skid includes a pump start/stop switch, an emergency shutdown device (button), supply line filter and fire extinguisher. The system is serviced by a single underground tech cable from the existing hangar. The system is positioned on a concrete tank pad. The system is not anchored to the concrete pad. There is no traffic protection associated with the storage tank system.

Contractor shall permanently withdrawal and remove from service and dispose the existing skid-mounted fuel-dispensing system, including proper disconnection, and

marking/tagout of the underground tech cable to be removed by others during future work. Contractor shall assume the storage tank is empty at time of removal.

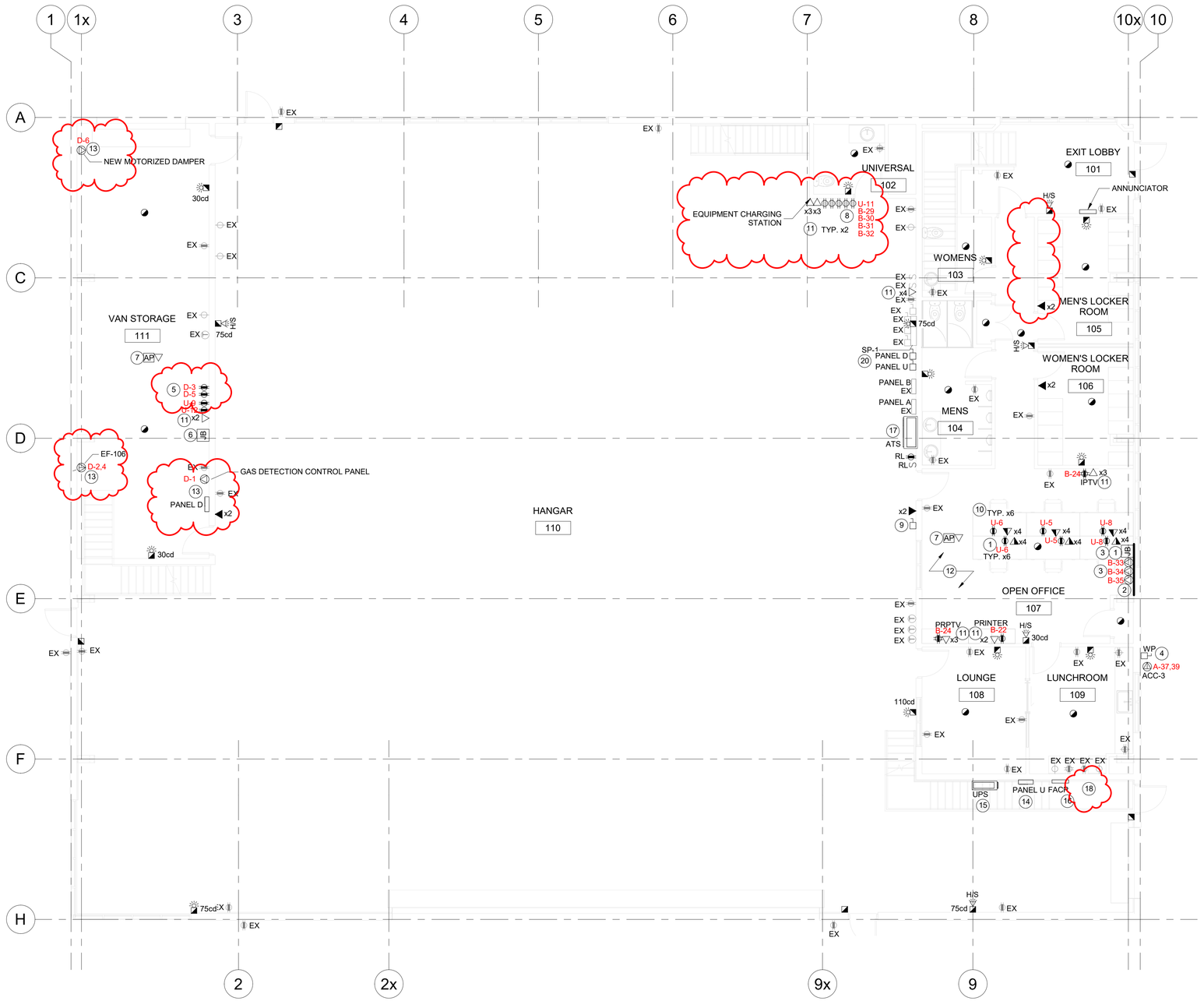
Contractor must be a licensed petroleum mechanic registered with Ontario Technical Standard and Safety Authority (TSSA) for removal of aboveground petroleum storage tanks. The storage tank and associated equipment must be disposed at an approved hazardous waste disposal site. All electrical removal/disconnection will be completed by a licensed electrician.

The storage tank system removal shall be completed in accordance with the federal storage tank regulations SOR-2008/197, and include the following written documentation on the contractor's company letterhead:

- confirmation that all liquid and sludge has been removed from the storage tank system
- confirmation that the storage tank as been purged of flammable vapours to less than 10% of the lower flammable limit (LFL), as measured by a combustible gas meter, prior to removal from site
- confirmation that no visual or olfactory evidence of environmental impacts were observed during the tank withdrawal and removal
- licensed petroleum mechanic's name and TSSA registration documentation who overseen the work
- copies of any storage tank, product, and sludge disposal manifests

If evidence of environmental impacts is observed, contactor shall stop work and immediately contact the owners representative/project manager.

Janice Smith,
Procurement Advisor



1 GROUND FLOOR POWER LAYOUT PLAN
SCALE: 1 : 75

NEW WORKING NOTES:

1. PROVIDE NEW 20A RECEPTACLES MOUNTED DIRECTLY TO DESK. ROUTE ARMOURED CABLE THROUGH DESK TO CONCEAL AS MUCH AS POSSIBLE. EXACT MOUNTING LOCATIONS TO BE COORDINATED WITH OWNER. CIRCUITS TO BE CONNECTED TO SURFACE MOUNTED RACEWAY JUNCTION BOX ON WALL. CIRCUITS TO BE FED FROM PANEL U.
2. PROVIDE NEW SURFACE MOUNTED RACEWAY DOWN CORNER FROM CEILING AND ACROSS BASEBOARD TO BRING POWER AND DATA TO DESK GROUP.
3. PROVIDE CONNECTION AT SURFACE MOUNTED RACEWAY JUNCTION BOX FOR SYSTEM FURNITURE POWER WHIP. FURNITURE WHIP IS CONFGURED FOR THREE (3) CIRCUITS PLUS DEDICATED GROUND.
4. PROVIDE 240V POWER CONNECTION FOR OUTDOOR CONDENSING UNIT. PROVIDE WEATHERPROOF DISCONNECT
5. PROVIDE TWO (2) DUPLEXES FED FROM UPS POWER AND TWO (2) DUPLEXES FED FROM GENERATOR POWER TO VAN STORAGE AREA FOR FUTURE USE. EXACT LOCATION TO BE COOORDINATED WITH OWNER PRIOR TO ROUGH-IN.
6. PROVIDE 53mm CONDUIT PATHWAY TO VAN STORAGE AREA FROM IT ROOM. CONDUIT TO BE ROUTED ALONG PERIMETER OF HANGAR AREA PARALLEL TO EXISTING SECURITY CONDUIT. PROVIDE PULLBOXES AS NECESSARY. PROVIDE 12"x12" JUNCTION BOX IN VAN AREA. THIS PATHWAY IS FOR FUTURE USE. PROVIDE CONDUIT BUSHING AT EACH END.
7. WIRELESS ACCESS POINT PROVIDED BY OWNER AND INSTALLED BY THIS CONTRACTOR.
8. PROVIDE THE FOLLOWING DEVICES TO BE MOUNTED IN CHARGING STATION BACKBOARD. NOT ALL DEVICES SHOWN ON PLAN. TO BE COORDINATED WITH GC PRIOR TO ROUGH-IN.CIRCUITS ALLOCATIONS TO DEVICES TO BE COORDINATED WITH OWNER DURING CONSTRUCTION. PROVIDE ALTERNATE PRICE FOR ALTERNATE LOCATION INDICATED.
   SIX (6) DUPLEX RECEPTACLES FED FROM PANEL B
   SIX (6) QUADRUPLEX RECEPTACLES FED FROM PANEL B
   TWO (2) DUPLEXES FED FROM PANEL U
9. PROVIDE NEW LOCKABLE DISCONNECT FOR NEW ELECTRIC HOIST. EXACT LOCATION TO BE COORDINATED ON SITE PRIOR TO INSTALL
10. PROVIDE 4-PORT WORK AREA OUTLET C/W CONDUIT AND CAT6A CABLING BACK TO IT CLOSET. CABLES SHALL BE 2 DATA, 1 PHONE, 1 SPARE.
11. PROVIDE WORK AREA DATA OUTLET C/W CONDUIT AND CAT6A CABLING BACK TO IT CLOSET. QUANTITY OF CABLES AS INDICATED ON PLAN.
12. CONTRACTOR TO PROVDE PANDUIT 28GA CAT6A COPPER PATCH CABLES. QUANTITY SHALL BE TOTAL DATA/VOICE PORTS IN THE ENTIRE PROJECT PLUS 10% SPARE. CABLE LENGTH SHALL BE 7ft. FINAL LENGTHS TO BE COORDINATED WITH OWNER.
13. PROVIDE EXHAUST FAN CONTROL PANEL SERVING GAS MONITORING/DETECTION SYSTEM. TO BE INTERCONNECTED WITH MOTORIZED DAMPERS AND NEW EXHAUST FANS SERVING HANGER AND GARAGE AREAS FOR FAN START-UP
14. PROVIDE NEW PANELBOARD. REFER TO SINGLE LINE DIAGRAM FOR ADDITIONAL INFORMATION. EXACT LOCATION TO BE COORDINATED ON SITE WITH OWNER.
15. PROVIDE NEW UPS C/W CONCRETE HOUSEKEEPING PAD. EXACT LOCATION TO BE COORDINATED ON SITE. REFER TO SINGLE LINE DIAGRAM FOR ADDITIONAL INFORMATION
16. PROVIDE PHONE CONNECTION FOR FIRE ALARM MONITORING AND NEW DEDICATED 120V, 15A CIRCUIT FOR NEW FIRE ALARM CONTROL PANEL. EXACT LOCATION TO BE COORDINATED ON SITE WITH OWNER.
17. PROVIDE NEW ATS. REFER TO SINGLE LINE DIAGRAM FOR ADDITIONAL INFORMATION. EXACT LOCATION TO BE COORDINATED ON SITE. ALLOW FOR RELOCATION OF EXISTING DEVICES AND CONDUITS TO REMOV INTERFERENCES.
18. PROVIDE ALTERNATE PRICING FOR INSTALLATION OF CHARGING STATION DEVICES AS PER WORKING NOTE #8 AT THIS LOCATION IN LIEU OF THE BASE LOCATION SHOWN.
19. PROVIDE NEW 100A, 120/240V, 42CCT PANELBOARD FED FROM MAIN SPLITTER C/W NEW DISCONNECT. REFER TO SINGLE LINE DIAGRAM FOR ADDITIONAL INFORMATION.. EXACT MOUNTING LOCATION IN VAN STORAGE AREA TO BE COORIDNATED ON SITE WITH OWNER TO ENSURE ADEQUATE CLEARANCES ARE ACHIEVED.
20. PROVIDE UNISTRUT MOUNTING AND ADDITIONAL BACKBOARD FOR MOUNTING OF NEW DISCONNECTS BELOW EXISITNG SPLITTER.

No.	Date	Description	By
E	2025-06-25	ISSUED FOR ADDENDUM NO. 3	RVG
D	2025.05.30	ISSUED FOR TENDER	RVG
C	2025.05.23	ISSUED FOR TENDER REVIEW 100%DD	RVG
B	2025.05.13	ISSUED FOR CLIENT REVIEW	RVG
A	2025.02.21	ISSUED FOR 100% DETAILED DESIGN	RVG

STAMPS:

DESIGNED BY

APPROVED BY

ENGINEER:
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CLIENT:
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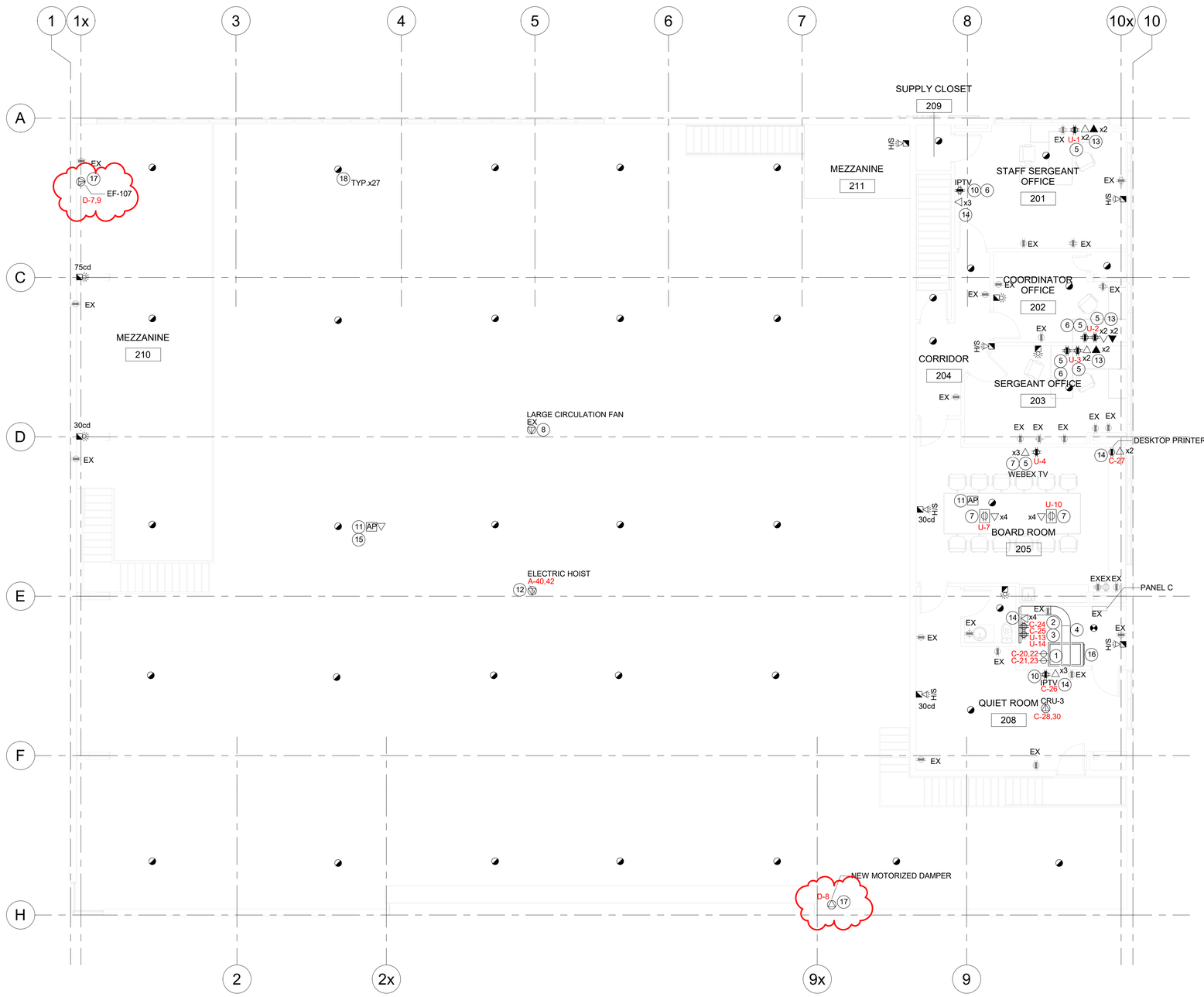
13653 MCLAUGHLIN ROAD
CALEDON, ON L7C 2B2

PROJECT NAME:
HELIPORT RETROFIT

SHEET TITLE:
GROUND FLOOR - POWER LAYOUT

DISCIPLINE:
ELECTRICAL

DRAFTER: RJC	SCALE: AS NOTED
DESIGNER: RVG	DATE: 2025/02/21
APPROVER: LC	CHECKER: RVG
PROJECT No: Z0022639	DRAWING No: E-101
SHEET No: 6 of 11	



1 SECOND FLOOR - POWER LAYOUT
SCALE: 1 : 75

NEW WORKING NOTES:

1. PROVIDE TWO (2) TYPE L6-30 RECEPTACLES INSTALLED DIRECTLY INSIDE DATA RACK.
2. PROVIDE NEW GROUNDING BUS BAR MOUNTED TO TELECOM BACKBOARD.
3. PROVIDE TWO (2) NEW 15A QUAD RECEPTACLES AT TELECOM BACKBOARD FOR SECURITY AND TELECOM EQUIPMENT. EXACT LOCATION TO BE COORDINATED ON SITE.
4. PROVIDE NEW SUSPENDED CABLE TRAY RUNNING FROM TELECOM BACKBOARD OVER DATA RACK.
5. PROVIDE NEW 20A RECEPTACLE FED FROM PANEL AS INDICATED. PROVIDE QUAD WHERE INDICATED
6. EXTEND EXISTING RECEPTACLE CIRCUIT SERVING ROOM TO SUIT NEW DEVICE LOCATION. ALLOW FOR REMOVAL AND BLANK OFF OF ONE EXISTING RECEPTACLE LOCATION IN ROOM.
7. PROVIDE NEW RECESSED FLOOR BOX FOR BOARDROOM TABLE. FLOORBOX SHALL BE PROVISIONED WITH TWO (2) GANGS OF DUPEX RECPETACLES, ONE GANG FOR DATA, AND ONE GANG FOR AV WITH HDMI. FINAL DEVICE PLATES TO BE CONFIRMED WITH OWNER DURING SHOP DRAWING REVIEW. PROVIDE 53MM CONDUIT ROUGH-IN FROM FLOORBOX TO BOARDROOM TV LOCATION FOR AV CABLING. PROVIDE 27mm CONDUIT FROM FLOORBOX LOCATION TO BOARDROOM TV, AND FROM FLOORBOX TO THE IT ROOM. EXACT LOCATION TO BE COORDINATED WITH BOARDROOM TABLE ON SITE.
8. PROVIDE FIRE ALARM CONNECTION TO LARGE OVERHEAD CEILING FAN FOR SHUTDOWN DURING FIRE ALARM.
9. PROVIDE 240V POWER CONNECTION FOR AC UNIT
10. PROVIDE 20A RECEPTACLE AND DATA CONNECTION TO SERVE IPTV. DEVICES TO BE MOUNTED AT HIGH LEVEL. EXACT MOUNTING HEIGHT TO BE COORIDNATED WITH GC AND OWNER TO SUIT TV INSTALL.
11. WIRELESS ACCESS POINT PROVIDED BY OWNER AND INSTALLED BY THIS CONTRACTOR.
12. PROVIDE 240V POWERCONNECTION FOR NEW ELECTIC HOIST. TERMINATE IN JUNCTION BOX WITHIN 5ft OF THE POWER INLET FOR THE HOIST. EXACT LOCATION TO BE COORDINATED WITH HOIST INSTALLER. FINAL TERMINATION TO BE COORDINATED WITH HOIST INSTALLER. PROVIDE 30A LOCKABLE DISCONNECT ON GROUND FLOOR FOR HOIST.
13. PROVIDE 4-PORT WORK AREA OUTLET C/W CONDUIT AND CAT6A CABLING BACK TO IT CLOSET. CABLES SHALL BE 2 DATA, 1 PHONE, 1 SPARE.
14. PROVIDE WORK AREA DATA OUTLET C/W CONDUIT AND CAT6A CABLING BACK TO IT CLOSET. QUANTITY OF CABLES AS INDICATED ON PLAN.
15. EXACT LOCATION OF ACCESS POINT TO BE COORDINATED ON SITE TO AVOID INTERFERENCE WITH ELECTRIC HOIST AND LARGE CIRCULATION FAN. JUNCTION BOX AND ACCESS POINT SHALL BE LOCATED OUTSITE THE AREA OF THE FAN BLADES.
16. PROVIDE AND INSTALL REQUIRED 48-PORT RACK MOUNT PATCH PANELS AND KEYSTONE JACKS IN SERVER RACK. EXACT LOCATION OF PATCH PANEL IN RACK TO BE COORDINATED WITH OWNER. RACK AND ALL OTHER COMPONENTS/RACK-MOUNTED EQUIPMENT TO BE SUPPLIED BY OWNER AND INSTALLED BY THIS CONTRACTOR/VENDOR UNLESS NOTED OTHERWISE. CONTRACTOR TO PROVIDE #6AWG GROUND CABLE FROM GROUND BUS TO SERVER RACK.
17. PROVIDE EXHAUST FAN CONTROL PANEL SERVING GAS MONITORING/DETECTION SYSTEM. TO BE INTERCONNECTED WITH MOTORIZED DAMPERS AND NEW EXHAUST FANS SERVING HANGER AND GARAGE AREAS FOR FAN START-UP
18. PROVIDE UNISTRUT SUPPORT CONNECTING TO STRUCTURAL BEAMS FOR CEILING MOUNT FIRE ALARM DEVICES. DEVICES MAY NOT BE MOUTNED DIRECTLY TO CEILING.

No.	Date	Description	By
E	2025-06-25	ISSUED FOR ADDENDUM NO. 3	RVG
D	2025.05.30	ISSUED FOR TENDER	RVG
C	2025.05.23	ISSUED FOR TENDER REVIEW 100%DD	RVG
B	2025.05.13	ISSUED FOR CLIENT REVIEW	RVG
A	2025.02.21	ISSUED FOR 100% DETAILED DESIGN	RVG

STAMPS:

DESIGNED BY

APPROVED BY

ENGINEER:
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www.cima.ca

CLIENT:
PEEL REGIONAL POLICE
13653 MCLAUGHLIN ROAD
CALEDON, ON L7C 2B2

PROJECT NAME:
HELIPORT RETROFIT

SHEET TITLE:
SECOND FLOOR - POWER LAYOUT

DISCIPLINE:
ELECTRICAL

DRAFTER: RJC	SCALE: AS NOTED
DESIGNER: RVG	DATE: 2025/02/21
APPROVER: LC	CHECKER: RVG
PROJECT No: Z0022639	DRAWING No: E-103
SHEET No: 8 of 11	

Branch Panel: PANEL D

Location: VAN STORAGE 111
Supply From:
Mounting: Surface
Enclosure: NEMA 1 Indoor

Volts: 120/240 Single
Phases: 1
Wires: 3

A.I.C. Rating: UseShortCircuitCurrentRating & Refer to...
Mains Type:
Mains Rating: 100 A
MCB Rating: 1 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		Poles	Trip	Circuit Description	CKT
D-1	GAS DETECTION & FAN CONTROL PANEL	15 A	1	0 VA	0 VA			2	20 A	EXHAUST FAN EF-106 (VAN STORAGE AREA)	D-2
D-3	GARAGE STORAGE RECEPTACLE	20 A	1			180 VA	0 VA	--	--	--	D-4
D-5	GARAGE STORAGE RECEPTACLE	20 A	1	180 VA	0 VA			1	15 A	MOTORIZED DAMPER	D-6
D-7	EXHAUST FAN EF-107 (MEZZANINE)	20 A	2			0 VA	0 VA	1	15 A	MOTORIZED DAMPER	D-8
D-9	--	--	--	0 VA							D-10
D-11											D-12
D-13											D-14
D-15											D-16
D-17											D-18
D-19											D-20
D-21											D-22
D-23											D-24
D-25											D-26
D-27											D-28
D-29											D-30
D-31											D-32
D-33											D-34
D-35											D-36
D-37											D-38
D-39											D-40
D-41											D-42
			Total Load:	180 VA		180 VA					
			Total Amps:	2 A		2 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	0 VA	0.00%	0 VA		
Receptacle	360 VA	100.00%	360 VA	**Total Conn. Load:**	360 VA
				Total Est. Demand:	360 VA
				Total Conn.:	2 A
				Total Est. Demand:	2 A

Notes:

No.	Date	Description	By
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STAMPS:

DESIGNED BY

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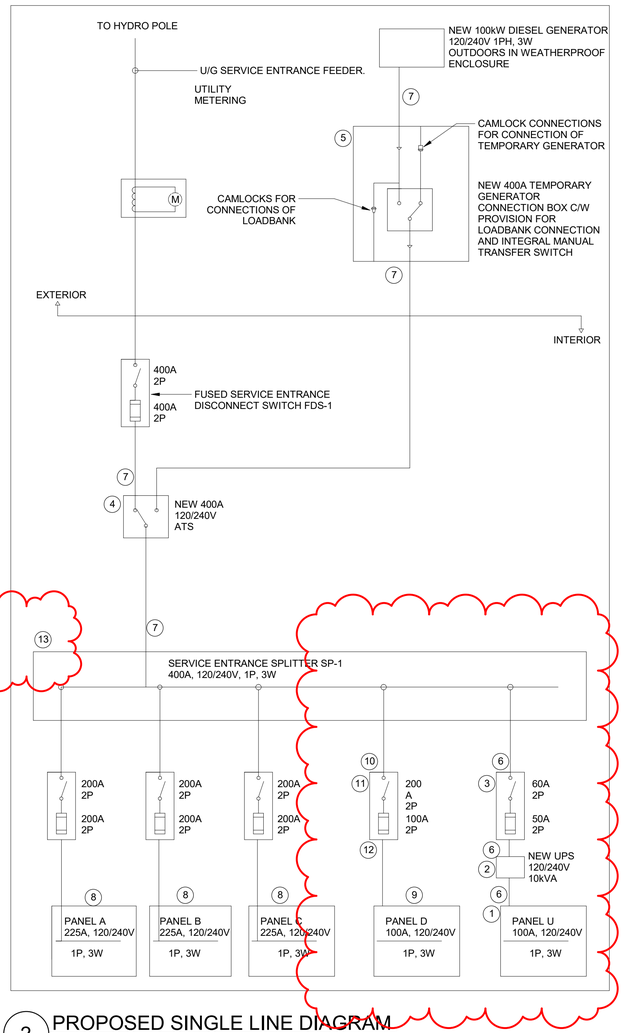
PROJECT NAME:
HELIPORT RETROFIT

SHEET TITLE:
PANEL SCHEDULES II

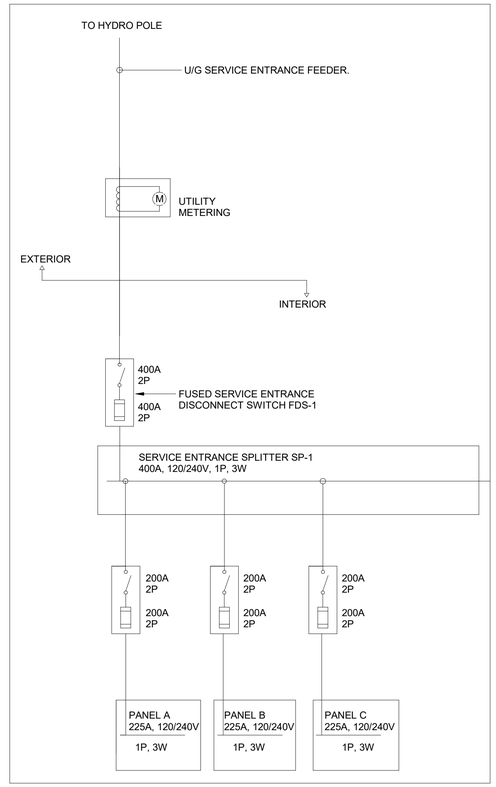
DISCIPLINE:
ELECTRICAL

DRAFTER: RJC	SCALE: AS NOTED
DESIGNER: RVG	DATE: 2025/02/21
APPROVER: LC	CHECKER: RVG
PROJECT No: Z0022639	DRAWING No: E-502
SHEET No: 10 of 11	



2 PROPOSED SINGLE LINE DIAGRAM

SCALE: N.T.S.



1 EXISTING SINGLE LINE DIAGRAM

SCALE: N.T.S.

NEW WORKING NOTES:

1. PROVIDE NEW PANELBOARD, PANEL 'U' TO SERVE UPS LOADS
2. PROVIDE NEW UPS C/W FEEDER MODULE TO ALLOW FOR HARDWIRE FEED TO PANEL 'U'. UPS SHALL BE EATON CAT# 9155 C/W ONE (1) EXTENDED BATTERY MODULE OR APPROVED EQUAL.
3. PROVIDE NEW DISCONNECT SWITCH FED FROM MAIN SPLITTER TO FEED NEW UPS AND UPS POWER PANEL
4. PROVIDE NEW AUTOMATIC TRANSFER SWITCH
5. PROVIDE NEW WEAHTERPROOF CONNECTION BOX FOR LOAD BANK AND PORTBLE GENERATOR CONNECTION WITH INTEGRAL MANUAL TRANSFER SWITCH
5. PROVIDE NEW OUTDOOR DIESEL BACKUP GENERATOR C/W L2 SOUND ATTENUATING ENCLOSURE.
6. PROVIDE 3#4AWG + G IN 35mmC FEEDER
7. PROVIDE 2 x 3#4/0AWG + G EACH IN 63mmC FEEDER
8. CONTRACTOR TO PROVIDE NEW LAMICOD LABELS TO ALL EXISTING PANELBOARDS.
9. PROVIDE NEW 100A, 120/240V PANELBOARD, PANEL 'D', IN VAN STORAGE AREA
10. PROVIDE 3#3/0AWG + G IN 53mmC FEEDER
11. PROVIDE NEW DISCONNECT SWITCH FED FROM MAIN SPLITTER TO FEED NEW PANELBOARD
12. PROVIDE NEW 3#1AWG + G IN 53mmC FEEDER
13. PROVIDE SEPARATE PRICE FOR REPLACEMENT OF EXISTING SPLITTER AND DISCONNECTS WITH NEW 400A, 120/240V DISTRIBUTION PANEL C/W BREAKERS IN LIEU OF DISCONNECTS INCLUDE IN THIS PROCE PROVISION OF BREAKERS IN LIEU OF DISCONNECTS FOR NEW DISCONECTS AS WELL

No.	Date	Description	By
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C	2025.05.23	ISSUED FOR TENDER REVIEW 100%DD	RVG
B	2025.05.13	ISSUED FOR CLIENT REVIEW	RVG
A	2025.02.21	ISSUED FOR 100% DETAILED DESIGN	RVG

STAMPS:

DESIGNED BY

APPROVED BY

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CLIENT:

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CALEDON, ON L7C 2B2

PROJECT NAME:

HELIPORT RETROFIT

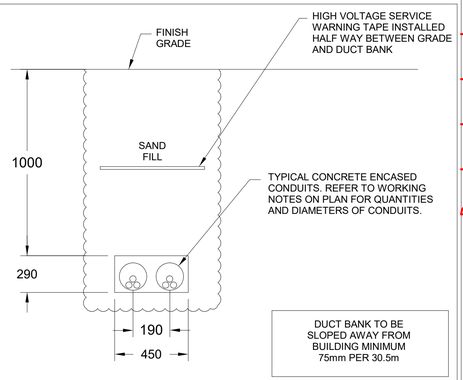
SHEET TITLE:

SINGLE LINE DIAGRAM

DISCIPLINE:

ELECTRICAL

DRAFTER: RJC	SCALE: AS NOTED
DESIGNER: RVG	DATE: 2025/02/21
APPROVER: LC	CHECKER: RVG
PROJECT No: Z0022639	DRAWING No: E-601
SHEET No: 10 of 11	

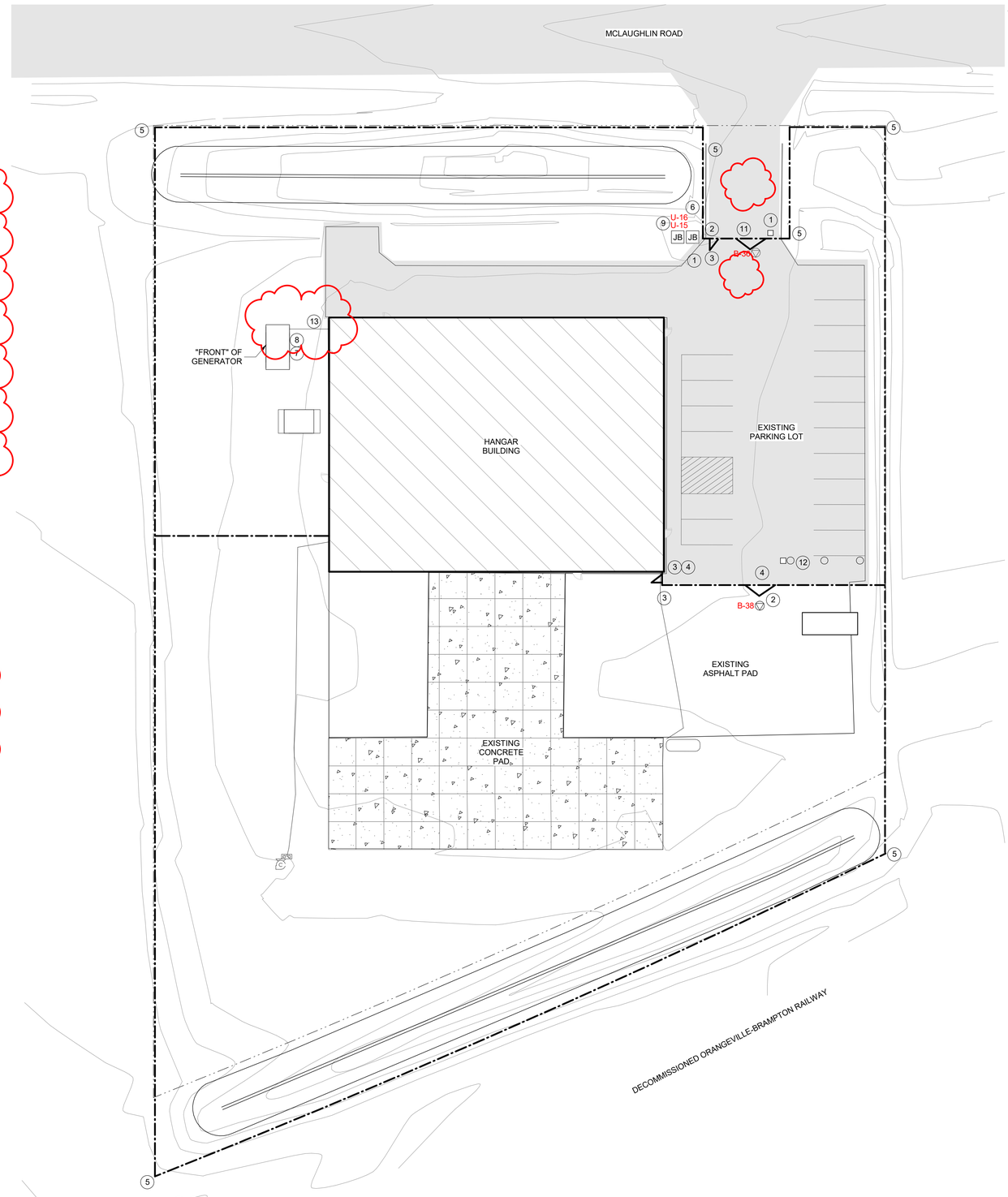


TYPICAL BURIED CONDUIT DETAIL

NTS

NEW WORKING NOTES:

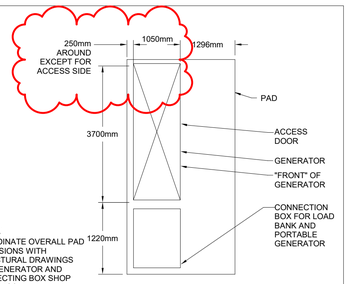
1. PROVIDE DUAL HEIGHT GOOSENECK PEDESTAL C/W CONCRETE BASE FOR SECURITY ACCESS CONTROL OF VEHICLE GATE. PEDESTAL TO SUPPORT VIDEO INTERCOM AND CARD READER AT EACH HEIGHT. PROVIDE ALL CONDUIT, CABLING AND SECURITY DEVICES BY OWNER'S SECURITY VENDOR. EXACT LOCATIONS TO BE COORDINATED ON SITE WITH OWNER PRIOR TO INSTALLATION. PEDESTAL SHALL BE PEDESTAL PRO CAT# 72-9C-D C/W CAT# 1414HOU-RITE-01-CRS HEAD HOUSING OR APPROVED EQUAL.
2. PROVIDE DEDICATED 120V, 20A CIRCUIT TO MOTORIZED VEHICLE GATE. COORDINATE EXACT LOCATION ON SITE WITH GATE INSTALLER. CIRCUIT RATING TO BE CONFIRMED WITH FINAL GATE SHOP DRAWINGS PRIOR TO INSTALLATION.
3. PROVIDE 2x53mm CONDUIT, CABLING, AND BACKBOXES FOR CARD READER TO CONTROL PEDESTRIAN GATE. PROVIDE WEATHERPROOF JUNCTION BOX AND 27mm CONDUIT FOR FINAL RUN TO DEVICES. EXACT LOCATION TO BE COORDINATED WITH GATE INSTALLER AND OWNER. PROVIDE ALL GATORLINK COMPONENTS, ACCESSORIES, AND RACK-MOUNTED GATLORLINK HEAD END IN BUILDING IT ROOM. CONDUITS TO RUN BACK TO BUILDING IT ROOM.
4. PROVIDE 2x53mm CONDUIT, CABLING, AND BACKBOXES FOR WALL MOUNTED CARD READER TO CONTROL VEHICLE ACCESS GATE LEADING TO THE AIR FIELD. PROVIDE WEATHERPROOF JUNCTION BOX AND 27mm CONDUIT FOR FINAL RUN TO DEVICES. EXACT LOCATION TO BE COORDINATED ON SITE WITH GATE INSTALLER AND OWNER PRIOR TO INSTALLATION. PROVIDE ALL GATORLINK COMPONENTS, ACCESSORIES, AND RACK-MOUNTED GATLORLINK HEAD END IN BUILDING IT ROOM.
5. PROVIDE 78mm UNDERGROUND CONDUIT ROUGH-IN C/W OUTDOOR RATED GATORLINK AND CABLING FOR FENCE-MOUNTED SECURITY CAMERAS. CAMERAS PROVIDED BY OWNER AND IS INSTALLED BY THIS CONTRACTOR. PROVIDE ALL GATORLINK COMPONENTS, ACCESSORIES, AND RACK-MOUNTED GATLORLINK HEAD END IN BUILDING IT ROOM. EACH LOCATION TO BE PROVISIONED FOR TWO (2) CAMERAS. CONDUITS TO RUN BACK TO BUILDING IT ROOM.
6. PROVIDE TWO (2) SPARE 53mm EMPTY CONDUITS C/W PULLSTRING UNDERGROUND TO SECURE SIDE OF GATE/FENCE AREA FOR FUTURE USE. EXACT LOCATION TO BE COORDINATED ON SITE WITH OWNER AND GATE/FENCE INSTALLER. CONDUITS TO RUN TO NEAREST ACCESSIBLE AREA OF BUILDING INTERIOR FOR FUTURE USE.
7. PROVIDE 100kW, 120/240V DIESEL BACK-UP GENERATOR MOUNTED ON CONCRETE HOUSEKEEPING PAD.
8. PROVIDE CONNECTION BOX FOR LOAD BANK AND PORTABLE GENERATOR CONNECTIONS C/W INTEGRAL MANUAL TRANSFER SWITCH. CONNECTION BOX TO BE MOUNTED ON CONCRETE PAD WITH GENERATOR
9. PROVIDE TWO (2) 120V, 20A SPARE CIRCUITS FED FROM UPS PANEL TO GATE AREA FOR FUTURE USE. TERMINATE IN WEATHERPROOF JUNCTION BOX AND LABEL.
10. NOT IN USE.
11. DEMOLISH EXISTING CONDUIT AND WIRING SERVING EXISTING MOTORIZED GATE AND SECURITY ACCESS PEDESTAL BACK TO SOURCE AND MAKE SAFE.
12. PROVIDE 2x53mm CONDUIT AND CONCRETE BASE FOR FUTURE SECURITY ACCESS CONTROL PEDESTAL TYPICAL TO PEDESTAL INSTALLED AT MAIN GATE. CAP IN WEATHERPROOF JUNCTIONBOX FOR FUTURE USE. COORDINATE EXACT LOCATION ON SITE WITH GATE INSTALLER AND OWNER PRIOR TO INSTALLATION. CONDUIT TO RUN BACK TO IT ROOM.
13. UNDERGROUND GENERATOR CONDUIT TO RUN TO CORNER BUILDING BEFORE ENTERTING. RISE UP TO MEZZANINE LEVEL WITHIN BUILDING AND CROSS TO ELECTRICAL BACKBOARD AREA AT HIGH LEVEL.



1 ELECTRICAL SITE PLAN
SCALE: 1 : 250

GENERATOR SCOPE NOTES:

1. SUPPLY AND INSTALL 100KW @ 0.8 PF 120/240V DIESEL BACKUP GNERATOR TO BE MOUNTED ON CONCRETE PAD.
2. SUPPLY AND INSTALL 400A, 120/240V 3W AUTOMATIC TRANSFER SWITCH MOUNTED IN HANGAR ELECTRICAL AREA.
3. GENERATOR TO BE EQUIPPED WITH SECOND BREAKER FOR LOAD BANK MAINTENANCE.
4. SUPPLY AND INSTALL LOAD BANK AND PORTABLE GENERATOR CONNECTION BOX ON GENERATOR PAD. CONNECTION BOX SHALL BE EQUAL TO FOXFAB POWER SOLUTIONS FFCC-C2-400-T-C1--GL-304-LA-AA-AJ
5. SUPPLY AND INSTALL POWER FEEDS FOR GENERATOR PANEL FROM 120V PANEL LOCATED IN GENERATOR ROOM.
6. ALLOW FOR ALL START-UP, TESTING AND COMMISSIONING OF GENERATOR AS RECOMMENDED BY MANUFACTURER. ALLOW FOR TRAINING SESSION WITH OWNER AND MAINTENANCE PERSONNEL. TRAINING SESSION TO BE COORDINATED WITH OWNER. SUBMIT TRAINING LOG TO CONSULTANT SIGNED BY ALL ATTENDEES.
7. COMPLETE A DEMAND TEST TO DETERMINE THE RUNNING LOAD OF THE GENERATOR DURING LOSS OF POWER. DEMAND READING SHOULD BE TAKEN DURING REGULAR HOURS OF OPERATION WITH BUILDING OPERATING AT CAPACITY. SUBMIT REPORT TO CONSULTANT.



NOTE:
COORDINATE OVERALL PAD DIMENSIONS WITH STRUCTURAL DRAWINGS AND GENERATOR AND CONNECTING BOX SHOP DRAWINGS.

GENERATOR PAD PLAN
NTS

No.	Date	Description	By
E	2025-06-25	ISSUED FOR ADDENDUM NO. 3	RVG
D	2025.05.30	ISSUED FOR TENDER	RVG
C	2025.05.23	ISSUED FOR TENDER REVIEW 100%DD	RVG
B	2025.05.13	ISSUED FOR CLIENT REVIEW	RVG
A	2025.02.21	ISSUED FOR 100% DETAILED DESIGN	RVG

STAMPS:

DESIGNED BY

APPROVED BY

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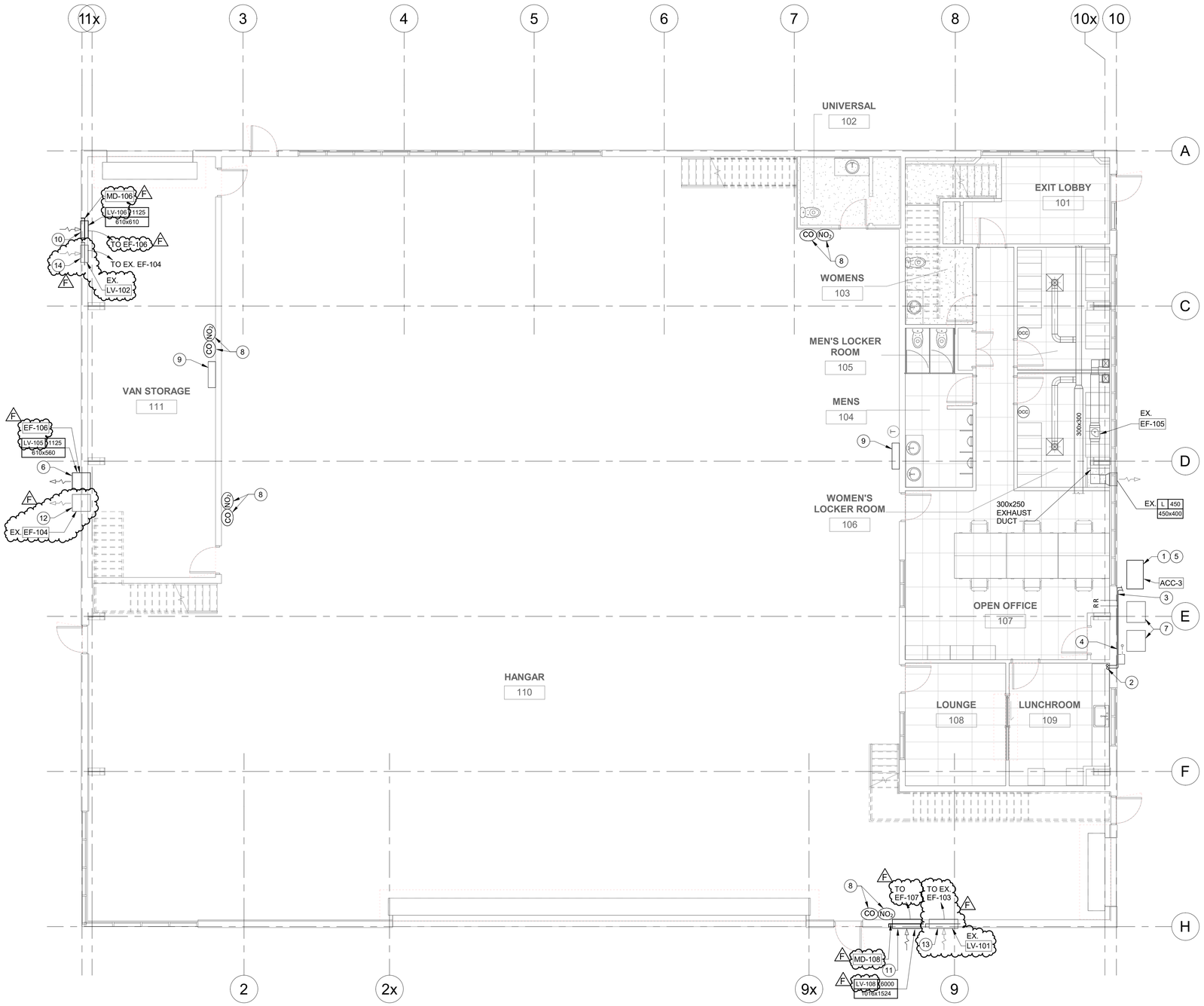
CLIENT:
PEEL REGIONAL POLICE
13653 MCLAUGHLIN ROAD
CALEDON, ON L7C 2B2

PROJECT NAME:
HELIPORT RETROFIT

SHEET TITLE:
ELECTRICAL SITE PLAN

DISCIPLINE:
ELECTRICAL

DRAFTER: RJC	SCALE: AS NOTED
DESIGNER: RVG	DATE: 2025/02/21
APPROVER: LC	CHECKER: RVG
PROJECT No: Z0022639	DRAWING No: ES101
SHEET No: 9 of 11	



1 GROUND FLOOR PLAN - NEW & DEMO HVAC LAYOUT
SCALE: 1 : 75

GENERAL NEW MECHANICAL NOTES:

1. REFER TO ARCHITECTURAL DRAWINGS AND/OR GENERAL CONTRACTOR FOR CEILING HEIGHTS TO ENSURE ALL SERVICES ARE CONCEALED WITHIN AVAILABLE CEILING SPACE. RUN ALL NEW SERVICES UP IN JOIST SPACE AND BETWEEN LIGHTS AS NOTED OR AS REQUIRED.
2. PREPARE INTERFERENCE DRAWINGS AND COORDINATE ALL SERVICES WITH ALL TRADES PRIOR TO INSTALLATION.
3. FIRE STOP ALL NEW PIPING THROUGH RATED WALLS AND FLOORS IN AREA OF WORK.
4. SUPPLY ACCESS DOORS FOR MECHANICAL DEVICES ABOVE ANY DRYWALL CEILINGS AND TURN OVER TO GENERAL CONTRACTOR FOR INSTALLATION.
5. LABEL CEILING GRID AT ACCESS TO MECHANICAL EQUIPMENT AND DEVICES WITH LAMACOID NAMEPLATE.

NEW WORKING NOTES:

1. PROVIDE NEW IT ROOM 207 CONDENSING UNIT (ACC-3) AND MOUNT ON 450mm (18") HEIGHT STANDS WITH ECOFEET OR SIMILAR BASE SUPPORT AS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. NEW LIQUID/VAPOUR REFRIGERANT LINES FROM ACC-3 UP TO NEW A/C UNIT (CRU-3) IN IT ROOM 207.
3. PROVIDE INSULATION AND ALUMINUM JACKETING EQUAL TO 3M "VENTURECLAD" ON ALL REFRIGERATION PIPING EXTERIOR TO BUILDING (BOTH SUCTION AND LIQUID). RUN NEW PIPING ON RUBBER BLOCKS. REFER TO DETAIL.
4. RUN ALL POWER AND CONTROL WIRING TO NEW EQUIPMENT ALONG THE WALL WITH PROPER WALL SUPPORTS.
5. RUN NEW INSULATED REFRIGERANT PIPING THROUGH THE WALL TO THE EXTERIOR OF BUILDING AND CONNECT TO NEW CONDENSING UNIT (ACC-3). WEATHERSEAL ALL PIPING PENETRATIONS.
6. PROVIDE NEW EXHAUST FAN EF-106 AND NEW EXHAUST LOUVER LV-105 INSTALL AT THE WALL C/W BACKDRAFT DAMPER, CONTRACTOR TO MAINTAIN THE WALL OPENING TO SUIT THE NEW EXHAUST FAN AND NEW LOUVER DIMENSION. FAN TO BE INTERLOCKED WITH NEW MOTORIZED DAMPER FOR THE LV-106 AND THE GAS DETECTION SYSTEM
7. EXISTING CONDENSING UNITS TO REMAIN.
8. PROVIDE CO/NO_2 SENSOR AND WIRE BACK TO MASTER CONTROLLER IN VAN STORAGE 111.
9. PROVIDE GAS DETECTION CONTROL PANEL.
10. PROVIDE NEW LOUVER LV-106 C/W MOTORIZED DAMPER, SEE SCHEDULES FOR MORE INFORMATION, MOTORIZED DAMPER TO BE INTERLOCKED WITH GAS DETECTION SYSTEM, CONTRACTOR TO MAINTAIN THE WALL PENETRATION TO SUIT THE NEW LOUVER SIZE.
11. PROVIDE NEW LOUVER LV-108 TO BE REMOVED AND REPLACED WITH NEW LOUVER C/W MOTORIZED DAMPER, SEE SCHEDULES FOR MORE INFORMATION, MOTORIZED DAMPER TO BE INTERLOCKED WITH GAS DETECTION SYSTEM, CONTRACTOR TO MAINTAIN THE WALL PENETRATION TO SUIT THE NEW LOUVER SIZE.
12. EXISTING EXHAUST FAN EF-104 TO REMAIN.
13. EXISTING LOUVER LV-101 TO REMAIN.
14. EXISTING LOUVER LV-102 TO REMAIN.

No.	Date	Description	By
F	2025.06.25	ISSUED FOR ADDENDUM 3	MD
E	2025.06.17	ISSUED FOR ADDENDUM 2	MD
D	2025.05.30	ISSUED FOR TENDER	MD
C	2025.05.23	ISSED FOR TENDER REVIEW 100%DD	MD
B	2025.05.13	ISSUED FOR CLIENT REVIEW	MD
A	2025.02.21	ISSUED FOR 100% DETAILED DESIGN	MD

STAMPS:

DESIGNED BY

APPROVED BY

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CLIENT:
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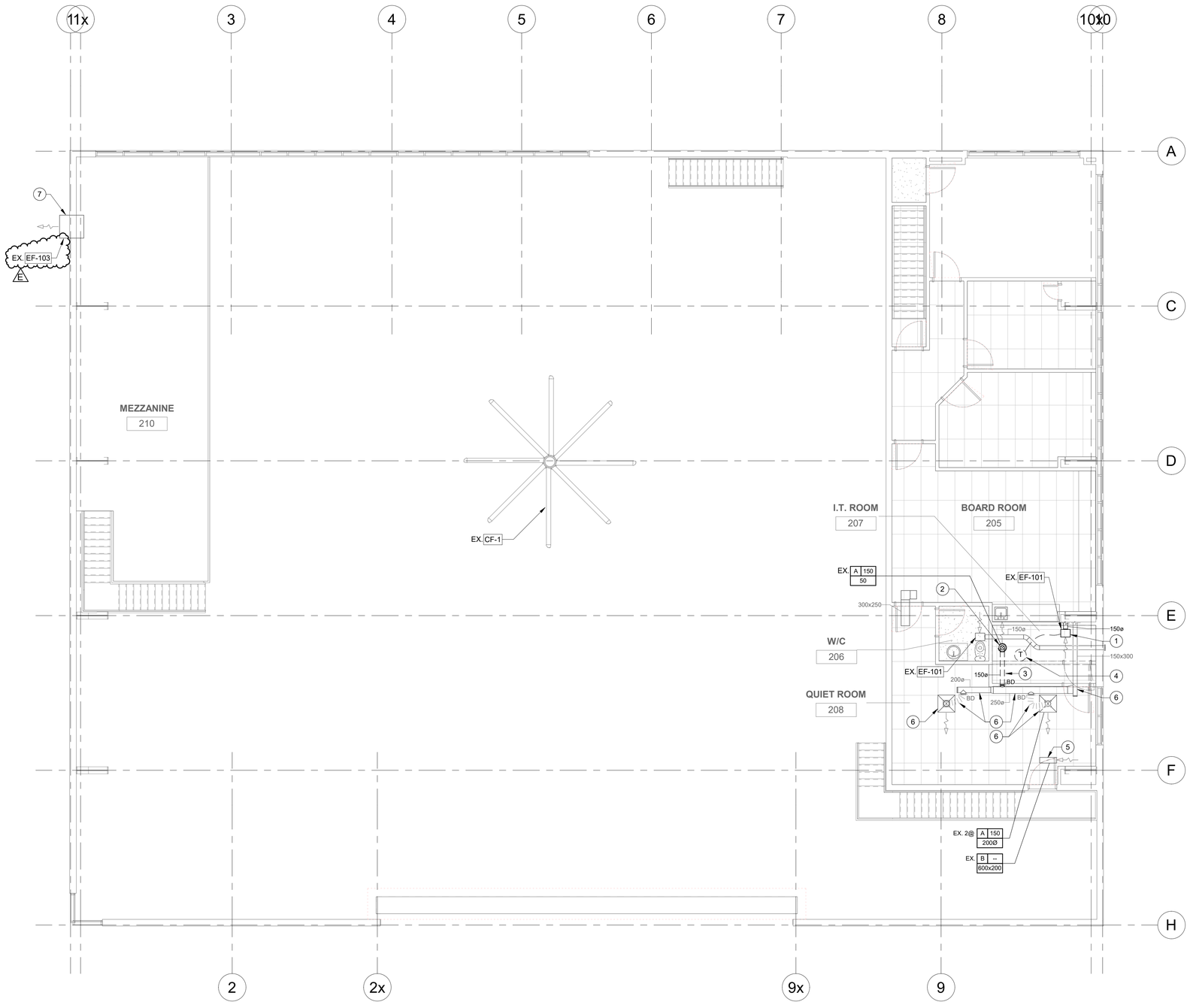
CALEDONIA, ON L7C 3L7

PROJECT NAME:
HELIPORT RETROFIT

SHEET TITLE:
GROUND FLOOR PLAN - NEW & DEMOLITION HVAC

DISCIPLINE:
MECHANICAL

DRAFTER: SR	SCALE: AS NOTED
DESIGNER: MD	DATE: 25/02/21
APPROVER: MD	CHECKER: BRT
PROJECT No: Z0022639	DRAWING No: M-102
SHEET No: 2 of 6	



1 SECOND FLOOR PLAN - DEMOLITION HVAC LAYOUT
SCALE: 1 : 75

GENERAL DEMOLITION MECHANICAL NOTES:

1. THE CONTRACTOR SHALL ALLOW FOR DETAILED SITE INVESTIGATION TO CONFIRM ALL SERVICES PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
2. PRE-CONSTRUCTION PHOTOS: THE CONTRACTOR SHALL TAKE PHOTOS OF THE SITE, BUILDING, SERVICES AND FINISHES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. SUCH PHOTOS SHALL INCLUDE ALL AREAS THAT FORM A PART OF THE CONSTRUCTION, BOTH INTERIOR AND EXTERIOR, AND WILL PROVIDE RECORD OF THE GENERAL CONDITION OF THE SITE PRIOR TO CONSTRUCTION. PHOTOS SHALL BE SHARED WITH THE OWNER AND CONSULTANT PRIOR TO ANY CONSTRUCTION STARTING.
3. DISCONNECT AND REMOVE ALL REDUNDANT EQUIPMENT, FIXTURES, DUCTWORK, PIPING AND OTHER REDUNDANT SERVICES THROUGHOUT AREA OF WORK.
4. REMOVE OBSOLETE ABOVEGROUND SERVICES BACK TO SOURCE/MAINS AND CAP.
5. ANY REDUNDANT RISERS CAN REMAIN WITHIN EXISTING WALLS (WHERE WALLS ARE SCHEDULED TO REMAIN) BUT SERVICES SHALL BE CUT AND CAPPED WITHIN WALL SO FACE OF WALL CAN BE PATCHED AND FINISHED SMOOTH.
6. COORDINATE WITH GENERAL CONTRACTOR TO ENSURE ANY COMBUSTIBLE MATERIAL IS REMOVED FROM CEILING PLENUM PRIOR TO COMPLETION OF CONSTRUCTION.
7. TEMPORARILY SEAL ALL OPEN DUCTS THROUGHOUT CONSTRUCTION TO PREVENT DUST AND DIRT FROM ENTERING THE SYSTEM. WHERE THE CONTRACTOR DOES NOT CONFORM THEY ARE RESPONSIBLE FOR CLEANING OF THE SYSTEMS IN A MANNER APPROVED BY THE CONSULTANT.

DEMOLITION WORKING NOTES:

1. REMOVE EXISTING EXHAUST FAN (EF-101) AND DUCTWORK C/W ALL GRILLES, DAMPERS, HANGERS AND ACCESSORIES. COORDINATE WALL PATCHING WITH GENERAL CONTRACTOR.
2. REMOVE EXISTING SUPPLY AIR DIFFUSER.
3. REMOVE EXISTING S/A DUCT AND FLEX DUCT. CAP AT MAIN DUCT.
4. REMOVE EXISTING THERMOSTAT AND ASOCIATED WIRING.
5. EXISTING RETURN AIR GRILLE TO REMAIN.
6. EXISTING SUPPLY AIR DUCT, FLEXIBLE DUCTS AND SUPPLY DIFFUSERS TO REMAIN.
7. EXISTING EXHAUST FAN EF-103 AND EXHAUST LOUVER TO REMAIN. (E)

No.	Date	Description	By
E	2025.06.25	ISSUED FOR ADDENDUM 3	MD
D	2025.05.30	ISSUED FOR TENDER	MD
C	2025.05.23	ISSED FOR TENDER REVIEW 100%DD	MD
B	2025.05.13	ISSUED FOR CLIENT REVIEW	MD
A	2025.02.21	ISSUED FOR 100% DETAILED DESIGN	MD

STAMPS:

DESIGNED BY

APPROVED BY

ENGINEER:
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CLIENT:
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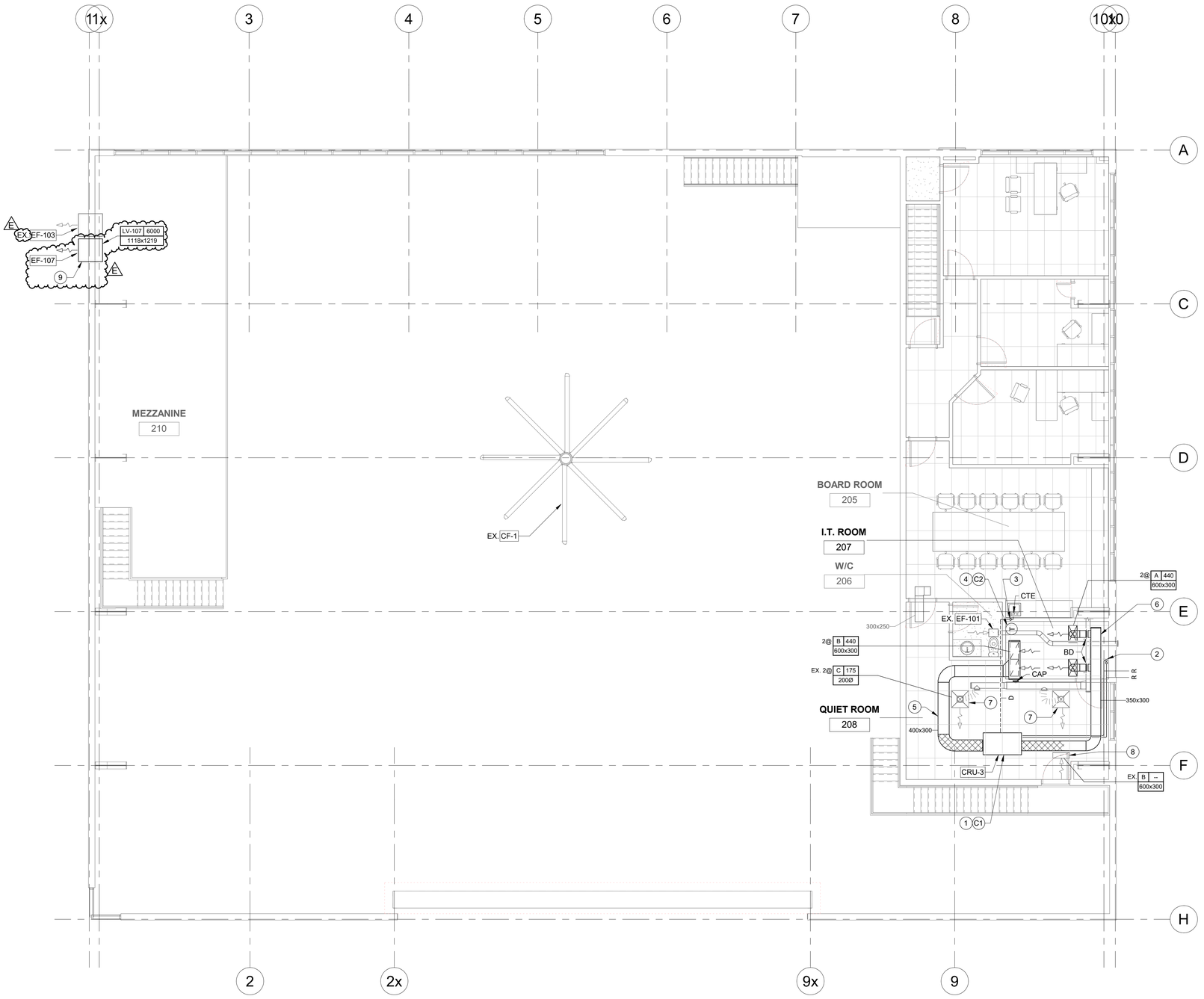
13663 MCLAUGHLIN ROAD
CALEDONIA, ON L7C 3L7

PROJECT NAME:
HELIPORT RETROFIT

SHEET TITLE:
SECOND FLOOR PLAN - DEMOLITION HVAC

DISCIPLINE:
MECHANICAL

DRAFTER: SR	SCALE: AS NOTED
DESIGNER: MD	DATE: 25/02/21
APPROVER: MD	CHECKER: BRT
PROJECT No: Z0022639	DRAWING No: M-103
SHEET No: 3 of 6	



1 SECOND FLOOR PLAN - NEW HVAC LAYOUT
SCALE: 1 : 75

GENERAL NEW MECHANICAL NOTES:

1. REFER TO ARCHITECTURAL DRAWINGS AND/OR GENERAL CONTRACTOR FOR CEILING HEIGHTS TO ENSURE ALL SERVICES ARE CONCEALED WITHIN AVAILABLE CEILING SPACE. RUN ALL NEW SERVICES UP IN JOIST SPACE AND BETWEEN LIGHTS AS NOTED OR AS REQUIRED.
2. PREPARE INTERFERENCE DRAWINGS AND COORDINATE ALL SERVICES WITH ALL TRADES PRIOR TO INSTALLATION.
3. FIRE STOP ALL NEW PIPING THROUGH RATED WALLS AND FLOORS IN AREA OF WORK.
4. SUPPLY ACCESS DOORS FOR MECHANICAL DEVICES ABOVE ANY DRYWALL CEILINGS AND TURN OVER TO GENERAL CONTRACTOR FOR INSTALLATION.
5. LABEL CEILING GRID AT ACCESS TO MECHANICAL EQUIPMENT AND DEVICES WITH LAMACOID NAMEPLATE.

NEW WORKING NOTES:

(1) PROVIDE NEW IT ROOM 207 DX FAN COIL A/C UNIT (CRU-3). NEW UNIT TO BE SUSPENDED WITHIN CEILING SPACE AND INSTALLED IN ACCORDANCE TO MANUFACTURES SPECIFICATIONS. MAINTAIN REQUIRED CLEARANCES AS PER MANUFACTURER'S MANUAL.

(2) RUN NEW INSULATED REFRIGERANT LINES DOWN THROUGH FLOOR IN NEW CHASE AND TO THE EXTERIOR OF THE BUILDING THROUGH THE LUNCH ROOM WALL TO NEW CONDENSING UNIT (ACC-3) ON THE GROUND, EXTERIOR TO THE BUILDING (CHASE BY GENERAL CONTRACTOR). FIRE STOP PIPING AT THE FLOOR PENETRATIONS. SEE M-102 FOR CONTINUATION.

(3) RUN NEW CONDENSATE PIPING DOWN IN CORNER IN NEW CHASE (CHASE BY GENERAL CONTRACTOR). RUN PIPING TIGHT THROUGH BACK OF MILLWORK AND CONNECT INTO EXISTING SINK DRAIN UPSTREAM OF TRAP.

(4) INSTALL NEW SPACE SENSOR AND THERMOSTAT (SUPPLIED BY MANUFACTURER). PROVIDE ALL INTERCONNECT WIRING BETWEEN A/C UNIT (CRU-3), CONDENSING UNIT (ACC-3) AND THERMOSTAT.

(5) PROVIDE NEW 400x300 R/A DUCTWORK C/W TRANSITION DUCTWORK. CONNECT TO NEW FAN COIL A/C UNIT (CRU-3).

(6) PROVIDE NEW 350x300 S/A DUCTWORK C/W TRANSITION DUCTWORK. CONNECT TO NEW FAN COIL A/C UNIT (CRU-3).

(7) EXISTING SUPPLY AIR GRILLES TO REMAIN, REBALANCE SUPPLY AIR GRILLES TO 175 CFM FOR EACH.

(8) EXISTING RETURN AIR GRILLE TO REMAIN.

(9) PROVIDE NEW EXHAUST FAN EF-107 AND NEW EXHAUST LOUVER LV-107 INSTALL AT THE WALL C/W BACKDRAFT DAMPER, CONTRACTOR TO PROVIDE WALL OPENING TO SUIT THE NEW EXHAUST FAN AND LOUVER DIMENSION. FAN TO BE INTERLOCKED WITH NEW MOTORIZED DAMPER FOR THE LV-108, AND THE GAS DETECTION SYSTEM. (E)

NEW CONTROL WORKING NOTES:

(C1) PROVIDE CONTROLS AND CONTROL WIRING FOR NEW A/C UNIT (CRU-3).

(C2) PROVIDE CONTROLS AND CONTROL WIRING FOR NEW THERMOSTAT.

No.	Date	Description	By
E	2025.06.25	ISSUED FOR ADDENDUM 3	MD
D	2025.05.30	ISSUED FOR TENDER	MD
C	2025.05.23	ISSED FOR TENDER REVIEW 100%DD	MD
B	2025.05.13	ISSUED FOR CLIENT REVIEW	MD
A	2025.02.21	ISSUED FOR 100% DETAILED DESIGN	MD

STAMPS:

DESIGNED BY

APPROVED BY

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PROJECT NAME:
HELIPORT RETROFIT

SHEET TITLE:
SECOND FLOOR PLAN - NEW HVAC

DISCIPLINE:
MECHANICAL

DRAFTER: SR	SCALE: AS NOTED
DESIGNER: MD	DATE: 25/02/21
APPROVER: MD	CHECKER: BRT
PROJECT No: Z0022639	DRAWING No: M-104
SHEET No: 4 of 6	

MOTORIZED DAMPER SCHEDULE

TAG		MD-106 E	MD-108 E
SERVICE		HANGAR	VAN STORAGE
MANUFACTURER		TAMCO	TAMCO
MODEL		9000 (INSULATED)	9000 (INSULATED)
SIZE	IN (MM)	610x610	1016x1524
TYPE		FLANGE MOUNT PARALLEL	FLANGE MOUNT PARALLEL
ACTUATOR		OPEN-CLOSE	OPEN-CLOSE
ELECTRICAL	VOLT/PH	24/1	24/1
CONTROLS		- INTERLOCK WITH GAS DETECTION SYSTEM. ACTUATOR SUPPLY BY CONTROLS CONTRACTOR.	- INTERLOCK WITH GAS DETECTION SYSTEM. ACTUATOR SUPPLY BY CONTROLS CONTRACTOR.

FAN SCHEDULE

TAG		EF-106 E	EF-107 E
SERVICE		VAN STORAGE	VAN STORAGE
TYPE		PROPELLER FAN	PROPELLER FAN
MANUFACTURER		COOK	COOK
MODEL		24EW420B	24EW420B
AIR FLOW	CFM	6000	1125
EXTERNAL STATIC	IN. W.C.	0.5	0.5
SOUND		79 dBA/33 SONES	69 dBA/19 SONES
FAN RPM		1628	1016
FAN MOTOR	HP	1-1/2	1/2
FAN TYPE		BELT DRIVE	BELT DRIVE
AMPS	AMPS	10	10
ELECTRICAL	VOLT/PH	240/1	240/1
DIMENSIONS	IN	20 L x 36-3/16 SQ.	20 L x 36-3/16 SQ.
APPROX. WEIGHT	LBS	222	222
CONTROLS		- INTERLOCK WITH GAS DETECTION SYSTEM	- INTERLOCK WITH GAS DETECTION SYSTEM
ACCESSORIES/ NOTES		- NEMA1 DISCONNECT SWITCH - 14GA STEEL FRAME WIRE GUARD (MOTOR SIDE) - HEAVY DUTY GRAVITY SHUTTER - ROTARY BELT TENSIONER	- NEMA1 DISCONNECT SWITCH - 14GA STEEL FRAME WIRE GUARD (MOTOR SIDE) - HEAVY DUTY GRAVITY SHUTTER - ROTARY BELT TENSIONER
ALTERNATE MANUFACTURERS		REFER TO SPECIFICATIONS	

AIR OUTLET SCHEDULE

TAG	A	B	L
TYPE	LOUVERED FACE SUPPLY	LOUVERED FACE RETURN	STORMPROOF LOUVERE
MANUFACTURER	PRICE	PRICE	VENTEX
MODEL	520D-F-L-A	535(D)-F-L-A	2425
SIZE	SEE DRAWINGS	SEE DRAWINGS	SEE DRAWINGS
COLOUR	B12	B12	V1119
NOTES	- DOUBLE DEFLECTION (ADJUSTABLE BLADES)	- SINGLE DEFLECTION (FIXED BLADES) - 1/2" BLADE SPACING	- ALUMINUM CONSTRUCTION - BIRDSCREEN
ALTERNATE MANUFACTURERS	NAILOR, TITUS, METAL AIR		

NEW AIR CONDITIONING UNIT SCHEDULE

TAG		CRU-3
SERVICE		IT ROOM
MANUFACTURER		LIEBERT
TYPE		DX HORIZONTAL FAN COIL
MODEL		MMD24E
REFRIGERANT		R410A
INDOOR COOLING CONDITIONS	°F	75DB/61WB
OUTDOOR COOLING CONDITIONS	°F	95DB/75WB
RATED PIPING LENGTH	ft	150
COOLING CAPACITY	btuh	21,800
SENSIBLE CAPACITY	btuh	19,500
AIR FLOW	cfm	885
EXTERNAL STATIC PRESSURE	in.w.c	0.3
LIQUID PIPE CONNECTION	inches	3/8
SUCTION PIPE CONNECTION	inches	7/8
CONDENSATE CONNECTION	inches	3/4
ELECTRICAL	volt/ph	240/1
FLA	amps	2.8
MOCP	amps	15
UNIT DIMENSIONS	inches	30" x 57" x 24"
APPROX. WEIGHT	lbs	225
CONTROLS		- REFER TO CONTROLS DETAILS
ACCESSORIES		- DISCHARGE PLENUM - SPARE MERV 8 FILTERS - DISCONNECT SWITCH - EC FAN MOTORS - CONDENSATE PUMP

NEW CONDENSING UNIT SCHEDULE

TAG		ACC-3
SERVICE		CRU-3
MANUFACTURER		LIEBERT
TYPE		AIR COOLED
MODEL		PFH027A-2TON
REFRIGERANT		R410A
INDOOR COOLING CONDITIONS	°F	75DB
OUTDOOR COOLING CONDITIONS	°F	95DB/75WB
RATED PIPING LENGTH	ft	150
COOLING SCOP		2.5
ELECTRICAL		240/1
LIQUID PIPE CONNECTION	inches	15.4
FLA	amps	30
MOCP		50
UNIT DIMENSIONS	inches	40" x 23" x 18"
APPROX. WEIGHT	lbs	200
CONTROLS		- REFER TO CONTROLS
ACCESSORIES		- COIL COATING - ECOFEET OR SIMILAR BASE SUPPORT

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PROJECT NAME:
HELIPORT RETROFIT

SHEET TITLE:
DETAILS & SCHEDULES

DISCIPLINE:
MECHANICAL

DRAFTER: SR	SCALE: AS NOTED
DESIGNER: MD	DATE: 25/02/21
APPROVER: MD	CHECKER: BRT
PROJECT No: Z0022639	DRAWING No: M-701
SHEET No: 5 of 6	