



Addendum #5

Bid Opportunity: CPS-RFT-25-03 - North Paris Fire Station

Closing Date: Tuesday, August 19, 2025 2:00 PM

Clarification:

Revised Civil Drawings – Posted under document section – ADDENDUM #5 – Drawings – Civil Combined

Question 1: 1. Please confirm the 12-strand fiber cabling is by the internet service provider (see Communications Riser Diagram).

Answer: Refer to DEI Addendum #1 Electrical Item 1.

Question 2: 2. There is an incoming main telecom backboard, but there is a note stating there is “conduit for fiber to pole splice enclosure” (detail c, drawing E301). Please provide more information. Where are the two 12-strand lines going, there is one entering the bottom of the data cabinet in the network room shown on drawing E601, and there is also another existing the incoming main telecom backboard. Please provide clarification.

Answer: Refer to DEI Addendum #1 Electrical Item 1.

Question 3: 3. How many racks/ cabinets are required for this project. Appendix A - County of Brant Network Infrastructure Design Standards indicated a standard 44U data rack (1148 of 1187), and then in the page (1149 of 1187) under Network Operations Center (NOC) Requirements the following statement is made; “Each NOC shall have a minimum of one four post data rack with vertical cable management, with provision for a second four post rack”. Please clarify the exact racking requirement. How many racks are being installed, are they 2-post or 4-post?

Answer: Refer to DEI Addendum #1 Electrical Item 7.

Question 4: are angled column flange braces permitted throughout?

Answer: Refer to Masri O Architects Addendum #4 item 1.7.

Question 5: Will you accept Hubbell Premise for Division 27 as an equal?
Please advise.

Answer: Refer to Masri O Architects Addendum #4 item 1.6.

Question 6: Will Hubbell Premise Wiring be accepted as an approved equal to the specified manufacturer for Division 27 – Communications?

Answer: Refer to Masri O Architects Addendum #4 item 1.6.

Question 7: Would you approve Hubbell Premise for Div 27 as an equal?

Answer: Refer to Masri O Architects Addendum #4 item 1.6.

Question 8: Will you Accept Hubbell Premise as an alternate cable manufacturer for division 27?

Answer: Refer to Masri O Architects Addendum #4 item 1.6.

Question 9: Would Hubbell Premise be accepted as an approved equal for Division 27?

Answer: Refer to Masri O Architects Addendum #4 item 1.6.

Question 10: The specs for the main service entrance switchboard indicate the amperage is 400A however the SLD is showing 600A. Please confirm which switchboard amperage is correct.

Answer: Refer to Masri O Architects Addendum #4 item 1.5.

Question 11: Is there a borehole log or well record for the existing monitoring well. Please provide size and depth for decommissioning.

Answer: Refer to Masri O Architects Addendum #4 item 1.16.

Question 12: What type of connections or anchors are required for the overhead door bent plates, as detailed in Drawing 2/A7.1?

Answer : Refer to Masri O Architects Addendum #4 item 1.8.

Question 13: What type of connections or anchors are required for the screen head aluminum bent plates, as shown in Drawing 3/A7.1?

Answer: Refer to Masri O Architects Addendum #4 item 1.9.

Question 14: There is a discrepancy between the Geotechnical Report and the Civil Plans in regard to the Granular build up for the Asphalt Parking Lot.

Geo Report states Granular B Type 1 for LD Asphalt is to be 300mm depth / Chart on the Civil drawing states 450mm depth for this item.

HD Asphalt - Geo report states 350mm depth whereas the Civil chart states 450mm depth

NOTE** Granular A for both LD and HD shows 150mm on both documents. No issue here.

Answer: Refer to Masri O Architects Addendum #4 item 1.1.

Question 15: Is it possible to have the PDF files for civil drawings created direct from cad software as it appears as though they have been scanned and do not zoom well or adapt well to other take-off software.

Answer: Refer to Masri O Architects Addendum #4 item 1.10.

Question 16: Please confirm if the city sidewalk beyond property line is to be included with this tender. the civil drawings say future by others. the landscape drawings say proposed new sidewalk.

Answer: Refer to Masri O Architects Addendum #4 clarification item 1.2.

Question 17: My supplier for Ezobord ceiling baffles has suggested this for ACB-2 (training room).....We did 15 pieces at 7320mm long as its more economical. Can you please advise if this is acceptable in the longer length?

Answer: Refer to Masri O Architects Addendum #4 item 1.14.

Question 18: We would like to substitute Richards-Wilcox Alumitite A175 Aluminum Frame Fullview Overhead Door - https://www.rwdoors.com/wp-content/uploads/2025/07/Alumatite_A175-A200-A300_July2025.pdf

Reason for Substitution

We usually do not supply Clopay or Cookson Aluminum Frame doors; we typically supply Richards-Wilcox and are very confident in their quality and workmanship. These doors meet or exceed all the specifications required. Please let me know if you need additional information.

Answer: Refer to Masri O Architects Addendum #4 item 1.11.

Question 19: Please have the consultant provide clarification on the spec'd ceiling tile and grid. Section 09 51 says panels should be based on Armstrong 589 which fits with a 9/16 inch exposed tee grid. However, they have also spec'd a 15/16 inch exposed tee grid. These two products are inconsistent.

Answer: Refer to Masri O Architects Addendum #4 item 2.2 and 2.3.

Question 20: Section 09 51 says panels should be based on Armstrong 589 which fits with a 9/16 inch exposed tee grid. However, they have also spec'd a 15/16 inch exposed tee grid. These two products are inconsistent. Please ask for clarification. FYI - 15/16 grid is most commonly used (i.e. most economical) so it is a good idea to change the ceiling tile type to match grid.

Answer: Refer to Masri O Architects Addendum #4 item 2.2 and 2.3.

Question 21: Please clarify if GC needs to carry the price of the Pre-Engineered metal building part, or if this part will be a separate contract between the owner and Pre-Eng. contractor?

Answer: Refer to Masri O Architects Addendum #4 item 1.3.

Question 22: If GC is to include the automatic door operator in the base bid, please provide the specification and details for the door operators.

Answer: Refer to Masri O Architects Addendum #4 item 2.4.

Question 23: We've reviewed the specifications and drawings and noticed some discrepancies regarding topsoil/planting soil depths. The specification references 150mm and 600mm for sod and planting beds, respectively. However, the drawings and other sections of the spec mention 250mm–450mm for planting beds and 100mm for sod and seeding. Could you please confirm the required topsoil/planting soil depths for both sod and planting areas?

Answer: Refer to Masri O Architects Addendum #4 item 1.4 and 2.1.

Question 24: There is a cash allowance for exterior signage. Please clarify if the following signage is covered by the cash allowance:

- (a) Electronic sign shown on drawing A1.2
- (b) Building signage shown on drawing A4.1

Answer: Refer to Masri O Architects Addendum #4 item 1.15.

Question 25: With reference to the chair rail detail 5/A10.4, please advise where a chair rail is required.

Answer: Refer to Masri O Architects Addendum #4 item 1.13.

Question 26: Please provide more information about the custom printed wall covering required for Corridor 101 (Note #16 on drawing A2.1).

Answer: Refer to Masri O Architects Addendum #4 item 1.12.



Addendum

PROJECT: North Paris Fire Station

ADDENDUM#: 4

OWNER: County of Brant

DATE: Aug 11, 2025

DISTRIBUTION: Prequalified Plan Takers via Bids and Tenders

The following information supplements and/or supersedes the bid documents issued on July 9, 2025.

This Addendum forms part of the Contract Documents and is to be read, interpreted and coordinated with all other parts. The cost of all contained herein is to be included in the Contract Sum. The following revisions supersede the information contained in the original drawings and specifications issued for the above-named project to the extent referenced and shall become part thereof. Acknowledge receipt of this Addendum by inserting its number and date on the Tender Form. Failure to do so may subject bidder to disqualification.

1. CLARIFICATIONS

- 1.1. Refer to Civil Drawing C2.4 for the pavement structure requirements. The requirements on civil engineering drawings supersede requirements on the geotechnical report related to pavement when the requirements on the civil engineering drawings are higher than what is on the geotechnical report. In all other cases, the requirements in the geotechnical report are to be followed.
- 1.2. Refer to Architectural Site Plan Drawing A1.1 – the future sidewalk (outside the property line) is noted “Not in Contract”.
- 1.3. Refer to Specification Section 13 34 19 Pre-Engineered Metal Building RFQ for GC requirements related to this section. The cost of the pre-engineered building is to be included in the Contract Price. For clarity, the GC must carry the price of the Pre-Engineered Metal Building sub-contract.
- 1.4. Refer to Specifications Section 31 22 19.13 Topsoil & Finish Grading for topsoil depth requirements.
- 1.5. Refer to Electrical Drawing E401 – main switchboard amperage is 600A.
- 1.6. Refer to Specifications Section 27 31 40 Telecommunication Network Installations – Hubbell Premise is not an approved manufacturer for cabling.
- 1.7. Angled column flange braces are allowed. A minimum clear headroom of 2.1m must be maintained at all locations including any finishes or attachments at each location.
- 1.8. Reference Overhead Door Bent Plates: Concealed Fasteners with welding tabs to back side bent plate and SMS screw to CFS header are required for the overhead door bent



- plates. Contractor may propose an alternate (concealed) connection for review and approval by the Consultant through shop drawings submittal.
- 1.9. Reference Screen Head Bent Plates: Concealed Fasteners with welding tabs to back side bent plate and SMS screw to CFS header through plywood, are required. Contractor may propose an alternate (concealed) connection for review and approval by the Consultant through shop drawings submittal.
 - 1.10. Refer to re-printed Civil Engineering Drawings attached.
 - 1.11. Refer to Section 01 25 00 Substitutions Procedures for submission required for the evaluation by Consultant related to any suggested products. Submissions for Alternates should include relevant product documents and should clearly demonstrate how the suggested products meet the required specifications.
 - 1.12. Refer to Architectural Drawing A2.1 Note #16 – image for wall covering will be provided by Owner/consultant for submission to wall covering company. Include pricing for supply and install in contract price.
 - 1.13. Refer to Architectural Drawing A10.4, Detail 5 Chair Rail Detail. Chair Rail is required on North and West elevations of Training Room as indicated on details 1 and 3 on the same sheet.
 - 1.14. Refer to Architectural Drawing A10.4 – Detail 3. As an alternative option, 7320mm long sections of Acoustic Baffle (Type ACB-2) can be provided in lieu of 2 each 3660mm. The angle of installation shall be revised to suit the longer length per consultant.
 - 1.15. Reference Architectural Drawing A1.2. Electronic Sign shown on Detail 11 is to be provided by Owner. Contractor to include installation of sign, power and data, supply and installation of Electronic Sign foundation in Contract Price per Detail 11 – A1.2. Building signage shown on Drawing A4.1 is to be provided through Cash Allowance.
 - 1.16. Refer to Civil Drawing C1.1 note regarding decommissioning monitoring well. For pricing purposes, assume well depth of 10mbgs with 2” PVC pipes in 6” boreholes.

2. INSTRUCTIONS

- 2.1. Reference Section 31 22 19.13 Topsoil & Finish Grading and add the following sentence to 3.1.3 – “150mm of topsoil for grass seeded areas”.
- 2.2. Reference Section 09 51 13 Acoustical Panel Ceilings, Sentence 2.3. Ceiling Panel Materials, add Item 2.3.1.11 Acceptable Materials, add sub-item 2 Sereno Fine Fissured High NRC / CAC by Certain Teed.
- 2.3. Reference Section 09 51 13 Acoustical Panel Ceilings Sentence 2.4.1.2 Revise flange size to 9/16” 14mm in lieu of 15/16” 23.8mm, and Sentence 2.4.6.1 Acceptable Materials: revise items 1, 2 and 3 as follows:
 1. SUPRAFINE XL 9/16" Exposed Tee, by Armstrong
 2. 9/16" EZ Stab Bolt Slot System by Certain Teed
- 2.4. Reference Section 08 71 00 Door Hardware and add the following sentence 2.6 Automatic Swing Door Operators – “provide ASSA ABLOY SW60 Swing Door Operator wave to open, clear, or dark bronze anodized to match door frame.”



- 2.5. Refer to Form of Tender Appendix A – delete line item “Hydro Service - \$50,000.00” from the list of Cash Allowances.

END OF ADDENDUM

Prepared By:
Natalie Ryan
Masri O Inc. Architects

August 5, 2025

Client: Masri O Inc. Architects
609 Krumpf Drive, Suite 201
Waterloo, ON N2V 1K8

RE: County of Brant – North Paris Fire Station
Paris, ON

Job #: 24160

Attn: Owen Musial, Dipl.T.Arch, Intern Technologist OAA, Studio Manager/
Reema Masri, B Sc. Arch. Eng., OAA, MRAIC/Natalie Ryan, M.Arch., OAA, MRAIC

ADDENDUM 01

MECHANICAL

Item 1

- 1.0 Reference Attached Reissued Drawings M103, M401, and M402
 - .1 Provide new hot water recirculation pipe to serve emergency shower mixing valve, complete with hot water recirculation pump RP-2. Separate hot water recirculation pipe serving the rest of the building to connect prior to thermostatic mixing valve only.

ELECTRICAL

Item 1

- 1.0 Reference Attached Reissued Drawing E101
 - .1 In the note box, note #4 revised to include that the fibre duct is to be stubbed at location to be confirmed by Owner as indicated on attached reissued drawing E101.

Item 2

- 2.0 Reference Attached Reissued Drawing E104
 - .1 In the light fixture schedule, revisions have been made to equals for fixture types L1, L2, L3, L4, L5, L8, L8A, and L11. In the exterior light fixture schedule, revisions have been made to fixture types P1, P2, and W, as indicated on attached reissued drawing E104.

Item 3

- 3.0 Reference Attached Reissued Drawing E105
 - .1 In the equipment wiring schedule, domestic recirculation pump (RP-2) added to schedule as indicated on attached reissued drawing E105.

Item 4

- 4.0 Reference Attached Reissued Drawing E301
 - .1 On Plan 'C' (Network Rm 108 enlarged plan) delete the 1-78mmC for fibre to pole splice enclosure as indicated on attached reissued drawing E301.

Item 5

- 5.0 Reference Attached Reissued Drawing E302
- .1 On Plan 'B' (Mech. 125 enlarged plan) mechanical item 'RP-1' (domestic recirculation pump) moved and mechanical item 'RP-2' (domestic recirculation pump) added, as indicated on attached reissued drawing E302.

Item 6

- 6.0 Reference Attached Reissued Drawing E402
- .1 In Panel Schedule 'M', the spare 15A-1P circuit 'M-37' to be labelled as 'Domestic Recirc Pump RP-2', as indicated on attached reissued drawing E402.

Item 7

- 7.0 Reference Attached Reissued Drawing E601
- .1 On the Communications Riser diagram, one of the two data racks has been deleted. The 12 strand fibre in 27mmC (from incoming main telecommunications backboard to corridor cable management) has been deleted. The 3-103mmC to property line clarified to include the fibre duct (fibre by others) as indicated on attached reissued drawing E601.



Jesse Anderson, P.Eng.

Lead Mechanical Engineer

24160 Addendum 01 (M&E-Various)(various reissued dwgs) Aug 5 25.docx
sva/cm/sdm



PLUMBING FIXTURE SCHEDULE (2 OF 2)												
Item	Type	Connection Sizes					Fixture		Trim		Accessories	
		HW	CW	TW	Drain	Vent	Acceptable Manufacturer	Fixture Description	Acceptable Manufacturer	Trim Description	Acceptable Manufacturer	Accessory Description
FFD-1	FUNNEL FLOOR DRAIN					NOTED 1 1/2	ZURN ZN-415-BF MIFAB F1100-C-EG CONTOUR C2000-RSHNB WATTS FD-100-C-EG-1	COMBINATION FUNNEL FLOOR DRAIN CAST IRON BODY WITH INTEGRAL SEEPAGE PAN, CLAMPING COLLAR, NICKEL-BRONZE ADJUSTABLE HEAD STRAINER WITH INTEGRAL FUNNEL C/W TRAP PRIMER.				
HD-1	HUB DRAIN					NOTED 1 1/2	ZURN Z415 C/W Z-400-S MIFAB F1100-C-DD CONTOUR C2000-F WATTS FD-100-C-DD	GENERAL DUTY HUB DRAIN CAST IRON BODY, CLAMPING COLLAR, NICKEL-BRONZE ADJUSTABLE HEAD HUB. C/W TRAP PRIMER.				
HB-1	WALL HYDRANT			3/4			WATTS BD SERIES DELTA WALTEC WILKINS EMCO	20 MM (3/4") DIAMETER BRASS CONSTRUCTION, 200 PSI, 180°F PRESSURE AND TEMPERATURE LIMITS, COMPLETE WITH HOSE CONNECTION, AND WHEEL HANDLE STRAIGHT/ANGLE PATTERN TO SUIT. PROVIDE VACUUM BREAKER COMPLETE WITH HOSE CONNECTION.				
HB-2	FIRE HOSE CONNECTION VALVE			2.5			NATIONAL FIRE EQUIPMENT ASSE	FORGED BRASS ANGLE PATTERN HOSE VALVE WITH THREADED CONNECTIONS, 2.5" DIA.				
NFHB-1	NON-FREEZE WALL HYDRANT			3/4			ZURN Z-1300 MIFAB MHY-20 ANCON HY-725	RECESSED, ENCASED, ALL BRONZE CONSTRUCTION, ANTI-SYPHON, NON FREEZE WALL HYDRANT WITH NON-TURNING OPERATING ROD, FREE FLOATING COMPRESSION VALVE, INTEGRAL VACUUM BREAKER, SELF DRAINING, REPLACEABLE SEAT AND SEAT WASHER, NICKEL BRONZE BOX AND HINGED COVER WITH OPERATING KEY LOCK. NPS 20 MM (¾") HOSE OUTLET.				
RD-1	ROOF DRAIN					NOTED	ZURN ZA121-CR MIFAB R1200-BU CONTOUR C1000DMP WATTS RD-100-BED-K SMITH 1015-C-R-AD	STANDARD ROOF DRAIN WITH CAST IRON BODY WITH ALUMINUM DOME, UNDER-DECK CLAMP TO SUIT ROOF CONSTRUCTION, ROOF SUMP RECEIVER, FLASHING CLAMP RING WITH INTEGRAL GRAVEL STOP.				

PLUMBING FIXTURE SCHEDULE (ALTERNATE PRICE #1)												
Item	Type	Connection Sizes					Fixture		Trim		Accessories	
		HW	CW	TW	Drain	Vent	Acceptable Manufacturer	Fixture Description	Acceptable Manufacturer	Trim Description	Acceptable Manufacturer	Accessory Description
L-1	B.F. DOUBLE LAV INTEGRAL COUNTERTOP ELECTRONIC FAUCET	1/2	1/2		1 1/4	1 1/4	SLOAN DSG-82000	ADA COMPLIANT, SOLID CORIAN SURFACE 2-STATION WALL MOUNTED SINK INTEGRAL COUNTERTOP, COUNTERTOP SIZES: 1525mm x 560mm x 125mm. 2 SEPARATE BASINS. STANDARD NEAR WHITE, TEXTURED COLOUR (CONFIRM W/ ARCH).	SLOAN EFX-200	HARDWIRED ELECTRONIC FAUCET. COMMERCIAL GRADE, ADA COMPLIANT, DIE-CAST METAL WITH INTEGRAL WATER PROOF INFRA-RED SENSOR AND CONNECTOR. ADJUSTABLE SENSING RANGE AND TIME OUT, CHROME FINISH. VANDAL RESISTANT AERATOR HAVING INTEGRAL FLOW CONTROL FOR 1.5gpm (5.7 L/MIN) @ 41.3 KPA (60 PSI) MAX. UNDER COUNTER PLASTIC SURFACE MOUNTED HOUSING FOR SOLENOID AND CONTROLLER. HARDWIRED BY ELECTRICAL.		WASTE FITTING: OPEN GRID STRAINER THERMOSTATIC MIXING VALVE UNDER LAV. DELTA R3070-MIXLF, POWERS LM490 OR EQUAL. PROVIDE FLOOR MOUNTED WALL CARRIER. PROVIDE C/W UNDER SINK ENCLOSURE. PROVIDE C/W ESD-400 SOAP DISPENSER

BOILER SCHEDULE								CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.
Item	Type	Input MBH	Output MBH	Flue Vent In.	Electrical Voltage	Heat Exchanger Description	Manufacturer & Model	Remarks
B-1	WALL HUNG COMBINATION BOILER	199.9	185	3	120/1/60	STAINLESS, CONDENSING	LOCHINVAR NKC199	NATURAL GAS CONDENSING MODULATING BURNER CONTROL; DUAL OUTPUT (DHW & HYDRONIC HOT WATER) C/W FACTORY SUPPLIED VENT KIT AND ACID NEUTRALIZING TANK.
B-2	WALL HUNG COMBINATION BOILER	199.9	185	3	120/1/60	STAINLESS, CONDENSING	LOCHINVAR NKC199	NATURAL GAS CONDENSING MODULATING BURNER CONTROL; DUAL OUTPUT (DHW & HYDRONIC HOT WATER) C/W FACTORY SUPPLIED VENT KIT AND ACID NEUTRALIZING TANK.
B-3	WALL HUNG BOILER	199.9	184	3	120/1/60	STAINLESS, CONDENSING	LOCHINVAR WHB199N	NATURAL GAS CONDENSING MODULATING BURNER CONTROL C/W FACTORY SUPPLIED VENT KIT AND ACID NEUTRALIZING TANK.

BUFFER TANK SCHEDULE									CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.
Item	Type	Max. Working Pressure (psig)	Max. Working Temperature (°F)	Total Volume (gal.)	Diam. (in.)	Height (in.)	System Connection (in)	Manufacturer & Model	Remarks
BT-1	BUFFER TANK	150	210	200	32	59.5	3"	LOCHINVAR BVU-200	BUFFER TANK, TOP LEVEL OUTLET, LOW LEVEL OUTLET, TOP LEVEL RETURN, LOW LEVEL RETURN, INSPECTION PORT, BUNGS FOR THERMOSTAT, TEMPERATURE SENSOR, PRESSURE GAUGE, T&P RELIEF VALVE, DRAIN PORT, INSULATED TO ASHRAE 90.1.

VRF SYSTEM HYDRO UNIT HEAT EXCHANGER SCHEDULE										CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.
Item	Type	Source Fluid	PROCESS SIDE			Nominal Capacity Tons	Design Capacity MBH	Acceptable Manufacturer	Remarks	
			In °F	Out °F	Flow GPM					
HX-1	BRAZED PLATE HEAT EXCHANGER	R410A	100	120	10	40% GLYCOL	8	96	LG ARNH963K2A4	208/1/60. VRF SYSTEM REFRIGERANT TO WATER HEAT EXCHANGER
HX-2	BRAZED PLATE HEAT EXCHANGER	R410A	100	120	10	40% GLYCOL	8	96	LG ARNH963K2A4	208/1/60. VRF SYSTEM REFRIGERANT TO WATER HEAT EXCHANGER

ELECTRIC DUCT HEATER SCHEDULE										CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.
Item	Type	CFM	Input Capacity	Input Medium	SIZE	Electrical Voltage	Manufacturer & Model	Remarks		
EDH-1	SLIP IN OPEN COIL	400	6kW	ELEC	10"x10"	575/3/60	DAIKIN HKS*05XC* THERMOLEC SC	SLIP-IN OPEN COIL, COMPLETE WITH SCR CONTROLS AND TEMPERATURE SENSOR.		
EDH-2	SLIP IN OPEN COIL	880	3kW	ELEC	16"x12"	575/3/60	DAIKIN HKS*05XC* THERMOLEC SC	SLIP-IN OPEN COIL, COMPLETE WITH SRC CONTROLS AND TEMPERATURE SENSOR. INSTALL INTEGRAL TO FAN COIL. SUB-FEED POWER THRU FAN COIL AND USE FAN COIL OUTPUTS FOR CONTROL.		
EDH-3	SLIP IN OPEN COIL	400	2kW	ELEC	8"x8"	575/3/60	DAIKIN HKS*05XC* THERMOLEC SC	SLIP-IN OPEN COIL, COMPLETE WITH SCR CONTROLS AND TEMPERATURE SENSOR.		

WATER SOFTENER SCHEDULE												CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.	
Item	Type	Mineral Tank			Brine Tank			Total System Capacity	Critical Flow gpm	Peak Flow (1 Tanks)	Electrical Voltage	Manufacturer & Model	Remarks
		Diameter D(n)	Height H(n)	Quantity	Diameter D(n)	Height H(n)	Quantity						
WS-1 WS-2	DUPLEX	14	65	2	24	37	1	81,000 @10lbs/ft3	15	25 GPM @ 15 psi	120/1/60	CANATURE 95 MTS 90-1.25"	PROVIDE C/W SYSTEM CONTROLLER. PEAK FLOW WITH ONE TANK IN REGEN.

EXPANSION TANK SCHEDULE									CAPACITY INDICATED ON SCHEDULE. REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.
Item	Type	Max. Working Pressure (psig)	Max. Working Temperature (°F)	Total Volume (gal.)	Diam. (in.)	Height (in.)	System Connection (in)	Manufacturer & Model	Remarks
ET-1	DIAPHRAGM PRE-PRESSURED	250	240	53.0	24	38	1"	AMTROL EXTROL 200L	HYDRONIC WATER EXPANSION TANK
ET-2	DIAPHRAGM PRE-PRESSURED	250	240	53.0	24	38	1"	AMTROL EXTROL 200L	HYDRONIC WATER EXPANSION TANK

PUMP SCHEDULE											CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.
Item	Type	Capacity USgpm	Head ft	Rated Power	Speed rpm	Electrical Voltage	Manufacturer & Model	Remarks			
P-1	ECM CIRCULATOR	25	40	454W	4008	120/1/60	GRUNDFOS MAGNA3 40-180 GF	VARIABLE SPEED ECM MOTOR, HYDRONIC CIRCULATOR, FLUID TEMP UP TO 180°F.			
P-2	ECM CIRCULATOR	25	40	454W	4008	120/1/60	GRUNDFOS MAGNA3 40-180 GF	VARIABLE SPEED ECM MOTOR, HYDRONIC CIRCULATOR, FLUID TEMP UP TO 180°F.			
P-3	ECM CIRCULATOR	22	40	432W	4005	208/1/60	GRUNDFOS MAGNA3 40-180 GF	VARIABLE SPEED ECM MOTOR, HYDRONIC CIRCULATOR, FLUID TEMP UP TO 180°F.			
P-4	ECM CIRCULATOR	22	40	432W	4005	208/1/60	GRUNDFOS MAGNA3 40-180 GF	VARIABLE SPEED ECM MOTOR, HYDRONIC CIRCULATOR, FLUID TEMP UP TO 180°F.			
BP-1	ECM CIRCULATOR	20	30	440W	3551	208/1/60	GRUNDFOS MAGNA3 40-120 GF	VARIABLE SPEED ECM MOTOR, HYDRONIC CIRCULATOR, FLUID TEMP UP TO 180°F.			
BP-2	ECM CIRCULATOR	20	30	440W	3551	208/1/60	GRUNDFOS MAGNA3 40-120 GF	VARIABLE SPEED ECM MOTOR, HYDRONIC CIRCULATOR, FLUID TEMP UP TO 180°F.			
BP-3	ECM CIRCULATOR	5	15	38W	-	120/1/60	GRUNDFOS ALPHA 15-58 F	VARIABLE SPEED ECM MOTOR, FLUID TEMP UP TO 180°F. RATED FOR POTABLE HOT WATER USE.			
BP-4	ECM CIRCULATOR	5	15	38W	-	120/1/60	GRUNDFOS ALPHA 15-58 F	VARIABLE SPEED ECM MOTOR, FLUID TEMP UP TO 180°F. RATED FOR POTABLE HOT WATER USE.			
BP-5	ECM CIRCULATOR	20	30	448W	3551	120/1/60	GRUNDFOS MAGNA3 40-120 GF	VARIABLE SPEED ECM MOTOR, HYDRONIC CIRCULATOR, FLUID TEMP UP TO 180°F.			
RP-1	INLINE DOMESTIC RECIRC. PUMP	3	10	38W	-	120/1/60	GRUNDFOS ALPHA	VARIABLE SPEED MOTOR. RATED FOR POTABLE HOT WATER USE.			
RP-2	INLINE DOMESTIC RECIRC. PUMP	3	10	38W	-	120/1/60	GRUNDFOS ALPHA	VARIABLE SPEED MOTOR. RATED FOR POTABLE HOT WATER USE.			
MP-1A	MANIFOLD CIRCULATOR PUMP	22	25	1/2HP	-	120/1/60	GRUNDFOS UPS 26-150 F/SF	VARIABLE SPEED ECM MOTOR, HYDRONIC CIRCULATOR, FLUID TEMP UP TO 120°F.			
MP-1B	MANIFOLD CIRCULATOR PUMP	22	25	1/2HP	-	120/1/60	GRUNDFOS UPS 26-150 F/SF	VARIABLE SPEED ECM MOTOR, HYDRONIC CIRCULATOR, FLUID TEMP UP TO 120°F.			
MP-3	MANIFOLD CIRCULATOR PUMP	28	20	1/2HP	-	120/1/60	GRUNDFOS UPS 43-100 F	VARIABLE SPEED ECM MOTOR, HYDRONIC CIRCULATOR, FLUID TEMP UP TO 120°F.			

AIR SOURCE HEAT PUMP SCHEDULE										CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.	
Item	Type	Cool MBH	Heat MBH	Fluid Type	EER @	Fan Motor hp	Electrical			Manufacturer & Model	Remarks
							Voltage	MCA	Fuse		
ASHP-1	AIR SOURCE HEAT PUMP WATER HEATER	192	216	R410A	-	-	575/3/60	35.7	50	LG ARUM192CTES	-

HOT WATER HEATER SCHEDULE										CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.
Item	Type	Input		Water Side		Electrical Voltage	Manufacturer & Model	Remarks		
		Capacity	Medium	Storage Litres	Recovery l/h					
HHW-1	DOMESTIC WATER HEATER	18kW	ELEC	100	284	575/3/60	A.O. SMITH DSE-100-18	POTABLE HOT WATER HEATER, INSULATED TANK MEETING ASHRAE 90.1-2013, C/W T&P VALVE, MULTIPLE ELEMENTS, SINGLE POWER CONNECTION.		
HHW-2	DOMESTIC WATER HEATER	18kW	ELEC	100	284	575/3/60	A.O. SMITH DSE-100-18	POTABLE HOT WATER HEATER, INSULATED TANK MEETING ASHRAE 90.1-2013, C/W T&P VALVE, MULTIPLE ELEMENTS, SINGLE POWER CONNECTION.		

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REVISIONS:		
NO.:	DATE:	ISSUED:
1.	2024.11.29	ISSUED FOR 60% COORDINATION
2.	2024.12.20	RE-ISSUED FOR 60% COORDINATION
3.	2025.02.14	ISSUED FOR CLASS A COST ESTIMATION
4.	2025.05.20	ISSUED FOR PERMIT
5.	2025.06.05	ISSUED FOR REVIEW
6.	2025.06.13	REISSUED FOR PERMIT
7.	2025.07.09	ISSUED FOR TENDER
A.	2025.08.05	ISSUED FOR ADDENDUM 01



PROJECT: NORTH PARIS FIRE STATION
21 ANN WILSON WAY (SCOTT AVE)



COUNTY PROJECT NO.: CPS-RFT-25-03
DRAWING TITLE: SCHEDULES

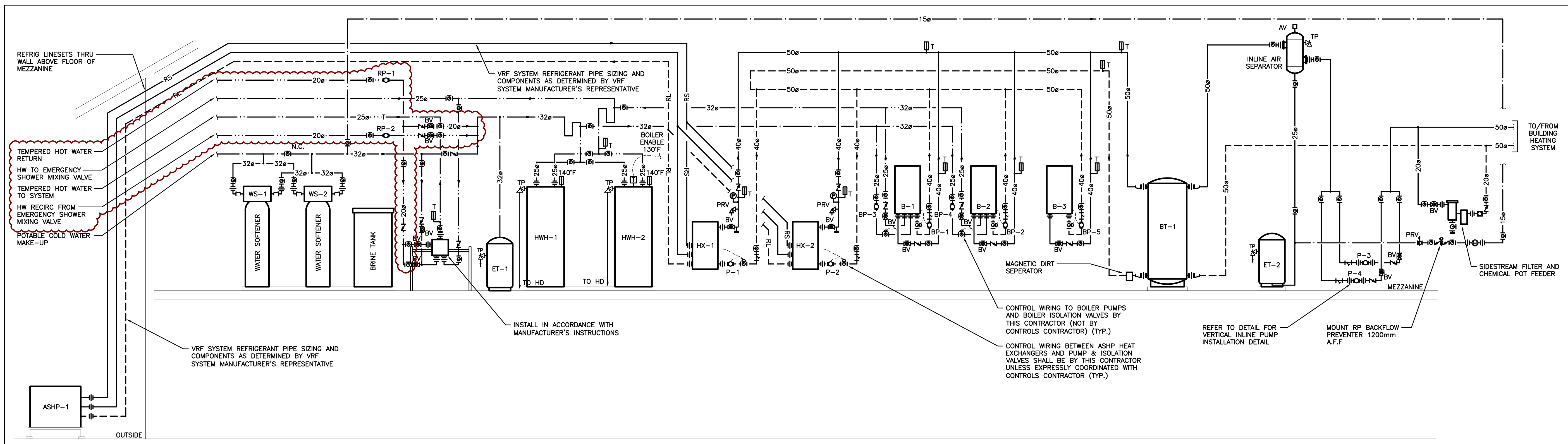
DATE: 2025.07.09
SCALE: As Noted
DRAWN: SVA
STATUS: TENDER
JOB NO.: 2411

DRAWING NO.: M103

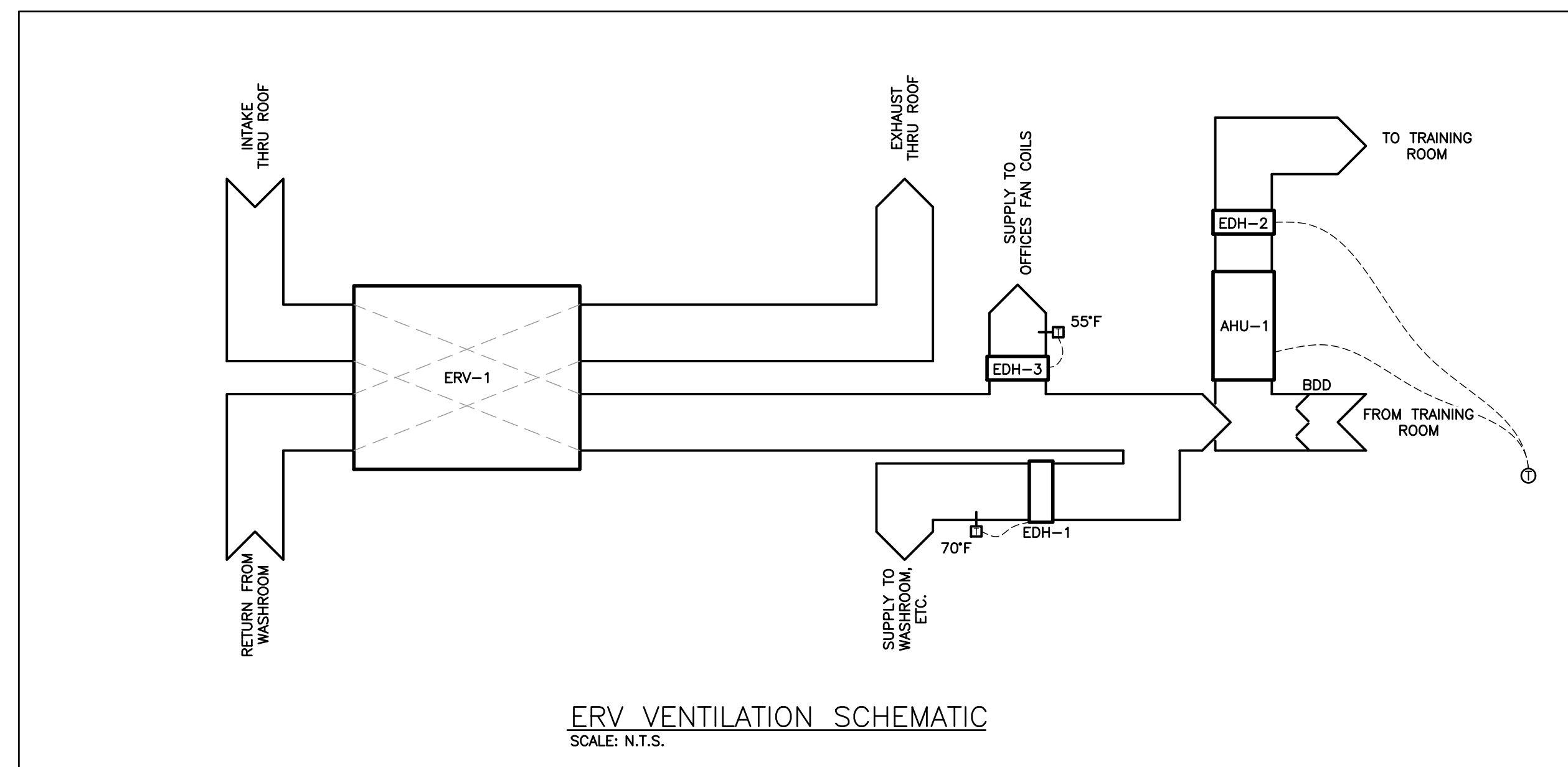
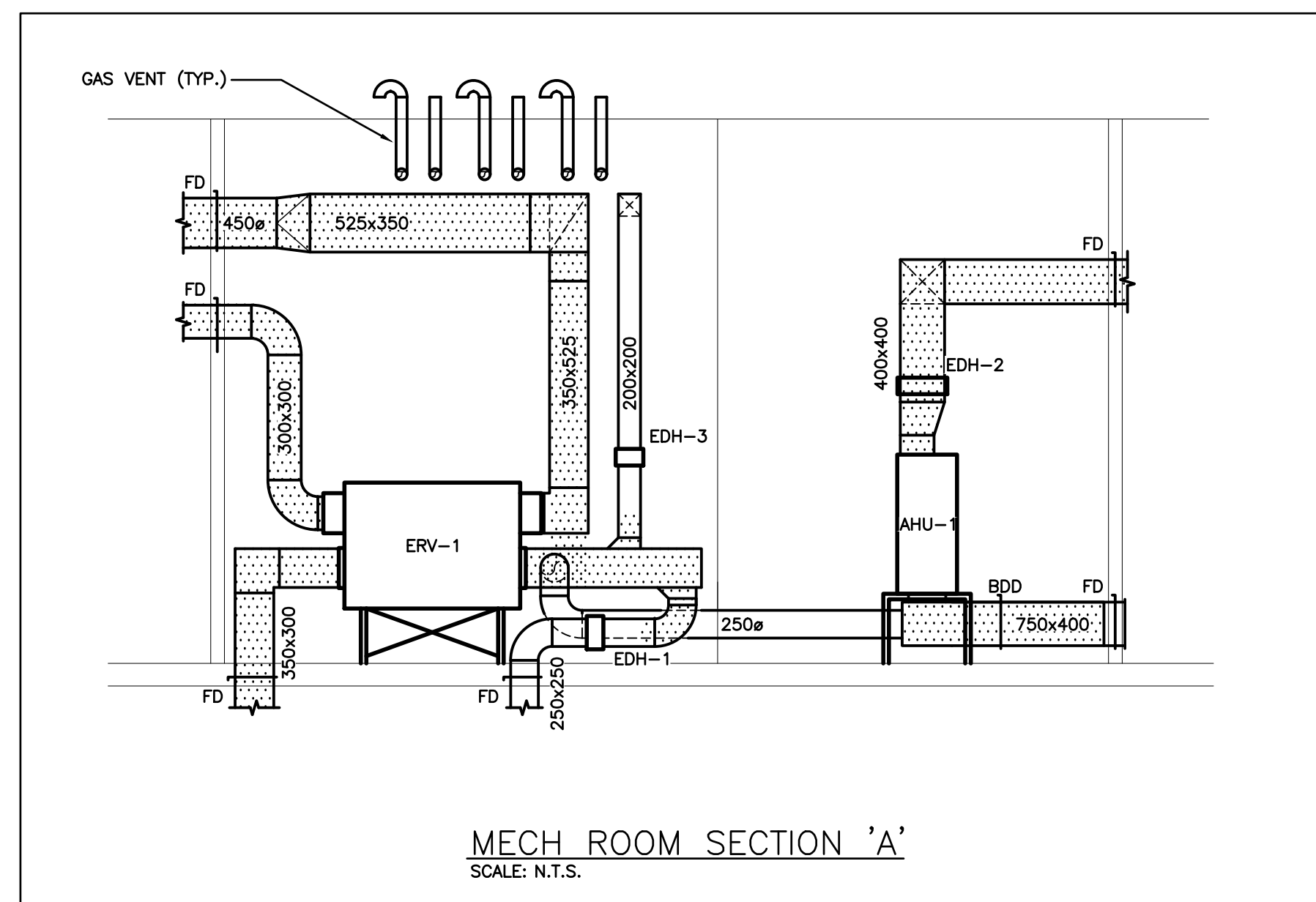


DATE:	2025.07.09	DRAWING NO.:	M401
SCALE:	As Noted		
DRAWN:	SVA		
STATUS:	TENDER		
JOB NO.:	2411		

M401

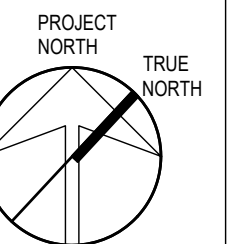


HYDRONIC HEAT + DOMESTIC WATER SCHEMATIC
SCALE: N.T.S.



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DEI
Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC

55 Northland Road,
Waterloo, ON, N2V 1Y8
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Website: deiassociates.ca
Project Number: 24060

NORTH PARIS
FIRE STATION

21 ANN WILSON WAY
(SCOTT AVE)

CLIENT:

COUNTY OF
Brant Simply Grand

COUNTY PROJECT NO.:

CPS-RFT-25-03

DRAWING TITLE:

SCHEMATICS

DATE: 2025.07.09

SCALE: As Noted

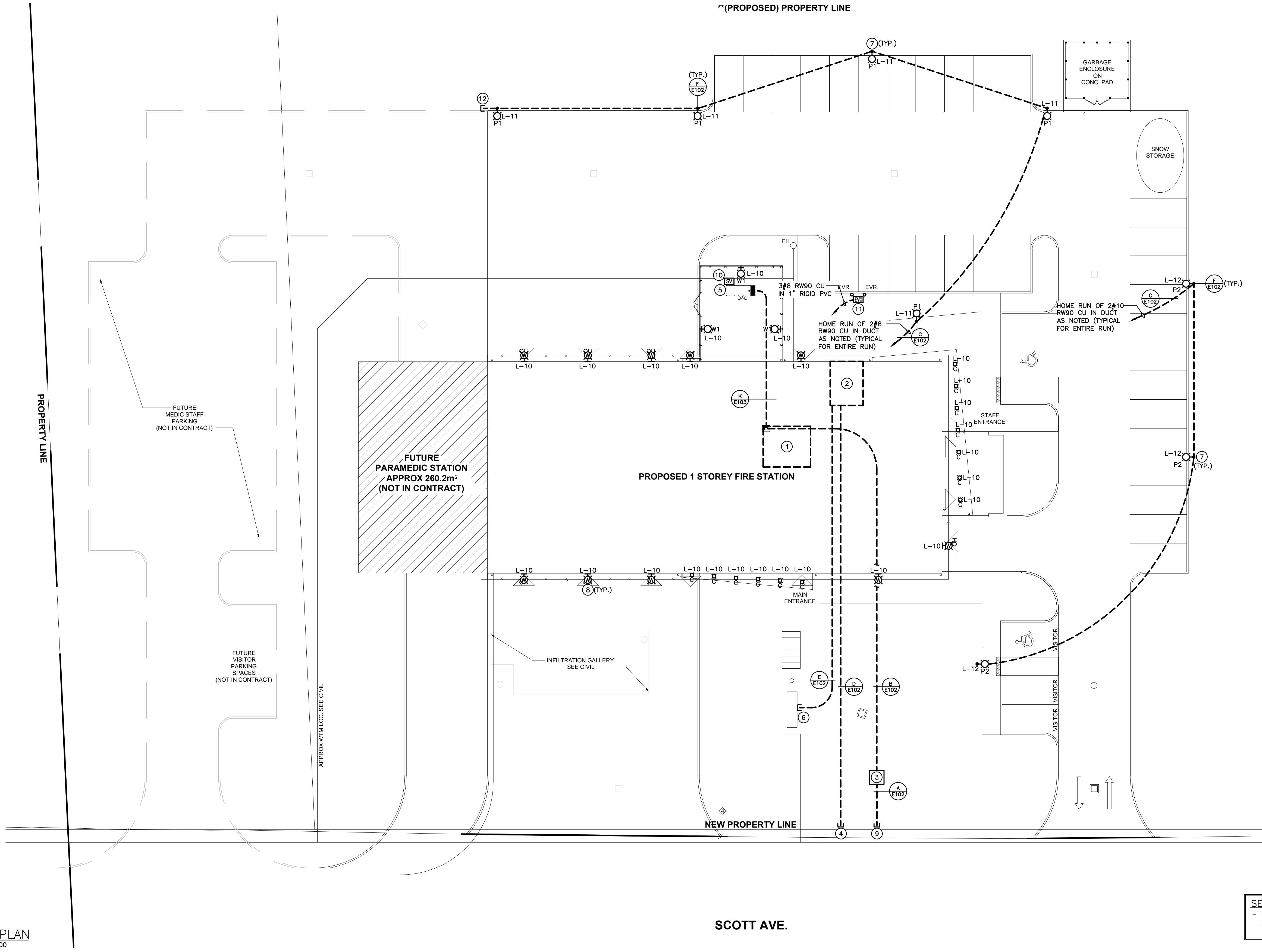
DRAWN: SVA

STATUS: TENDER

JOB NO.: 2411

DRAWING NO.:

M402



SITE PLAN
SCALE: 1:200

SPECIFIC NOTES

- INDICATES APPROXIMATE LOCATION OF MAIN ELECTRICAL ROOM ON MEZZANINE LEVEL.
- INDICATES APPROXIMATE LOCATION OF MAIN I.T. ROOM ON GROUND LEVEL.
- INDICATES LOCATION OF UTILITY PAD MOUNTED TRANSFORMER ON NEW CONCRETE BASE. REFER TO DETAIL H/E102.
- INDICATES COMMUNICATION DUCTS STUBBED AT PROPERTY LINE. FIBRE DUCT TO BE STUBBED AT LOCATION AS DIRECTED BY OWNER.
- INDICATES PROPOSED LOCATION OF NATURAL GAS GENERATOR ENCLOSURE INSTALLED ON CONCRETE ISOLATION PAD.
- INDICATES LOCATION OF FUTURE PYLON SIGN. CONFIRM EXACT LOCATION WITH ARCHITECTURAL DRAWINGS. PROVIDE TWO 50MM (2") DUCTS (1 FOR POWER, 1 FOR COMMUNICATIONS) AND RUN BACK TO I.T. ROOM.
- ENSURE LIGHTS ARE INSTALLED AT 915MM (3'-0") MINIMUM FROM CURB.
- INDICATES EXTERIOR WALL FIXTURE. MOUNT AT AN APPROXIMATE HEIGHT AS PER ARCHITECTURAL ELEVATIONS.
- INDICATES APPROXIMATE LOCATION OF PRIMARY DUCT STUBS AT PROPERTY LINE. REFER TO ELECTRICAL SERVICE SCOPE OF WORK.

- INDICATES LOCATION OF NATURAL GAS ISOLATION VALVE FOR NATURAL GAS SUPPLY TO SAFETY GENERATOR. CONNECT SUPERVISED VALVE TO GENERATOR CONTROLLER FOR MONITORING OF VALVE POSITION UNDER GENERATOR TROUBLE GENERAL FIRE ALARM SUPERVISED ZONE. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL TRADE AND GENERATOR SHOP DRAWINGS.
- PROVIDE EV CHARGER ROUGH-IN AS PER DETAIL J/E102. PROVIDE DUCTBANK AS PER DETAIL C/E102. DUCTBANK TO TERMINATE WITHIN PANEL 'R'.
- STUB AND CAP DUCT AND STAKE LOCATION FOR FUTURE EXTENSION BY OTHERS.

ELECTRICAL SERVICE-SCOPE OF WORK

GRANDBRIDGE ENERGY (UTILITY) WILL PROVIDE THE FOLLOWING WORK. COST WILL BE PART OF THE ALLOWANCE FOR UTILITY WORK AS LISTED IN SPEC SECTION.

- SUPPLY AND INSTALLATION OF PRIMARY FUSING AND PRIMARY CONDUCTORS.
- SUPPLY AND INSTALLATION OF ANY PRIMARY DUCTBANK PAST PROPERTY LINE.
- CONNECTION OF PRIMARY AND SECONDARY CONDUCTORS AT TRANSFORMERS IN ENCLOSURE.
- SUPPLY AND INSTALLATION OF METERING INSTRUMENTATION.
- SUPPLY AND INSTALLATION OF PAD MOUNT TRANSFORMER AND PRECAST CONCRETE ENCLOSURE. CONTACT GRANDBRIDGE ENERGY SERVICE COORDINATOR AT 519-612-3530 WITH SIZE AND NUMBER OF SECONDARY CABLES TO ENSURE TRANSFORMER LUGS ARE IN STOCK PRIOR TO SERVICE CONNECTION REQUEST BY CUSTOMER.
- BUILDING TO BE BULK METERED. BULK METER WILL BE SUPPLIED BY GRANDBRIDGE ENERGY.
- INSTALLATION OF GROUND RODS AND GRID WHILE PIT IS OPEN FOR VAULT.
- SUPPLY GROUNDING AT UTILITY TRANSFORMER.

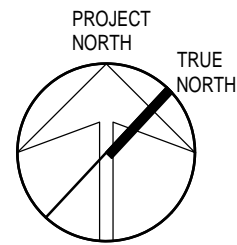
THE ELECTRICAL CONTRACTOR FOR THE BUILDING OWNER (CUSTOMER) SHALL BE RESPONSIBLE FOR THE FOLLOWING.

- SUPPLY AND INSTALLATION OF SECONDARY CABLES AT 600V MAIN SWITCHBOARD AND TRANSFORMER LUGS. PROVIDE 8000mm SLACK CONDUCTORS AT TRANSFORMER ENCLOSURE.
- SUPPLY AND INSTALLATION OF METER CABINET + VOICE LINE AND OUTLET PER PLANS AND TO SUIT UTILITY REQUIREMENTS.
- INSTALLATION OF SERVICE GROUND AT 600V SWITCHBOARD PER ELECTRICAL CODE AND AS SHOWN. PROVIDE COORDINATION STUDY PER SPECIFICATIONS.
- ALL WORK SHALL MEET UTILITY REQUIREMENTS & INSPECTION. ELECTRICAL CONTRACTOR TO CO-ORDINATE WITH GRANDBRIDGE ENERGY PRIOR TO PROCEEDING.
- SUPPLY AND INSTALLATION OF SECONDARY DUCTBANK.
- SUPPLY AND INSTALLATION OF PRIMARY DUCTBANK UP TO PROPERTY.

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A	2025.08.05	ADDENDUM 01



PROJECT:

NORTH PARIS
FIRE STATION

21 ANN WILSON WAY
(SCOTT AVE)

CLIENT:



COUNTY PROJECT NO.:

CPS-RFT-25-03

DRAWING TITLE:

SITE PLAN

DATE: 2025.07.09

SCALE: As Noted

DRAWN: KF

STATUS: TENDER

JOB NO.: 2411

DRAWING NO.:

E101

EXTERIOR LIGHT FIXTURE SCHEDULE									
Item	Manufacturer/Catalog Number	Voltage	Lamp	Mounting	CRI	Listings	LLF	Description	
C	COOPER CAT. #LD6C15D010TR-EU6C10208030-6LBN11H-LGSKT6IP66 LITHONIA CAT. #LDN6-AL01-SWW1-L06-AR-LSS-MVOLT-UGZ LITELINE CAT. #GEN06-IA-30-L-HW-B-N-X-N-N-1	120V	LED 104 LUMENS 3000K 16W	RECESSED	90	WET LOC.	0.90	RECESSED 6" (150mm) DIAMETER LED DOWNLIGHT C/W SELF-FLANGED 50 DEGREE BEAM REFLECTOR, SEMI-SPECULAR CLEAR FINISH, IP66 GASKET KIT, AND 5% 0-10V DIMMING DRIVER. ARCHITECT TO CONFIRM FLANGE FINISH.	
P1	McGraw-EDISON CAT. #GALN-SA2B-830-120-T4W-XX-HSS-FADC POLE: VALMONT CAT. #DS330-4000160-D1-FPGV-XX-FBC-45 OR EQUAL LITHONIA CAT. #D9VA LED SERIES GARDCO CAT. #OFF-S-A01-730-T4W-AR1-UNV-FAWS-X-OFF-S-15-14-1	120V	LED 6578 LUMENS 3000K 82W	POLE	80	DLC IDA	0.90	POLE MOUNTED DECORATIVE LED FIXTURE C/W EXTRUDED ALUMINUM ENCLOSURE, LOW PROFILE DESIGN, TYPE "T4W" DISTRIBUTION OPTICS WITH HOUSE SIDE SHIELD, FULL CUT-OFF DARK SKY COMPLIANCE (DA), FIELD ADJUSTABLE WATTAGE SELECTOR AND 15" (4.6m) X 4" (100mm) SQUARE STRAIGHT STEEL POLE, ENTIRE ASSEMBLY SHALL HAVE FINISH TO SUIT ARCHITECT. NOTES: POLES MUST BE PROVIDED WITH ROUND BOLT/BASE COVERS.	
P2	McGraw-EDISON CAT. #GALN-SA2B-830-120-T4FT-XX-HSS-FADC POLE: VALMONT CAT. #DS330-4000160-D1-FPGV-XX-FBC-45 OR EQUAL LITHONIA CAT. #D9VA LED SERIES GARDCO CAT. #OFF-S-A01-730-T4M-AR1-UNV-FAWS-X-OFF-S-15-14-1	120V	LED 6548 LUMENS 3000K 82W	POLE	80	DLC IDA	0.90	POLE MOUNTED DECORATIVE LED FIXTURE C/W EXTRUDED ALUMINUM ENCLOSURE, LOW PROFILE DESIGN, TYPE "T4FT" DISTRIBUTION OPTICS WITH HOUSE SIDE SHIELD, FULL CUT-OFF DARK SKY COMPLIANCE (DA), FIELD ADJUSTABLE WATTAGE SELECTOR AND 15" (4.6m) X 4" (100mm) SQUARE STRAIGHT STEEL POLE, ENTIRE ASSEMBLY SHALL HAVE FINISH TO SUIT ARCHITECT. NOTES: POLES MUST BE PROVIDED WITH ROUND BOLT/BASE COVERS.	
W	COOPER CAT. #ENC-SA1C-830-U-T4FT LITHONIA CAT. #D9VA LED SERIES GARDCO CAT. #GCS-A03-830-T4M-UNV-FAWS-X	120V	LED 3432 LUMENS 3000K 34W	WALL	80	DLC IDA	0.90	WALL MOUNTED FIXTURE C/W DIE-CAST ALUMINUM HOUSING, TYPE4 FORWARD THROW DISTRIBUTION C/W BACK LIGHT CONTROL, TOOL LESS ENTRY TO HINGED LENS ASSEMBLY AND FINISH TO SUIT ARCHITECT. MOUNT FIXTURE AT HEIGHT AS INDICATED ON ARCHITECTURAL ELEVATIONS, PROVIDE EXTERNAL PHOTOCELL AS PER SPECIFICATIONS.	
W1	COOPER CAT. #XTOR1B-Y-COL LITHONIA CAT. #WPX1-LED-P1-30K-MVOLT-XX GARDCO CAT. #GWS-A01-830-130M-UNV-X	120V	LED 1327 LUMENS 3000K 12W	WALL	80	DLC IDA	0.90	WALL MOUNTED FIXTURE C/W DIE-CAST ALUMINUM HOUSING AND FINISH TO SUIT ARCHITECT. MOUNT FIXTURE AT HEIGHT AS INDICATED ON ARCHITECTURAL ELEVATIONS, PROVIDE EXTERNAL PHOTOCELL AS PER SPECIFICATIONS.	

LED LIGHT FIXTURE SCHEDULE									
Item	Manufacturer/Catalog Number	Voltage	Lamp	Mounting	Description				
EXIT LIGHTS	AIMLITE CAT. #RPALUMWHUNTUNVDC STANPRO CAT. #RMXL0WH-UDC LUMACELL CAT. #LA3WUX	12V/120V	LED 2.5 WATT (MAX.) 2 WATT (MAX.)DC	SURFACE	LED EXTRUDED ALUMINUM PICTOGRAM FIXTURE C/W GREEN FACE AND WHITE LEGEND, UNIVERSAL MOUNTING TO SUIT WALL, END OR CEILING, AND MAXIMUM 2.5" (63mm) THICKNESS. FACES AND CHEVRONS TO SUIT DRAWINGS.				
EMERG. LIGHTS	AIMLITE CAT. #RMSM212V4WLJWH STANPRO CAT. #N2-06-12V4WLJWH LUMACELL CAT. #MQM2LD7	12V	LED 2-4W PAR18	SURFACE	TWIN HEAD LED REMOTE MR16 FIXTURE C/W COMPACT DESIGN, THERMOPLASTIC CONSTRUCTION, WHITE COLOUR, FULL AIMING ADJUSTMENT, AND 360° ROTATION.				
COMBO UNIT	AIMLITE CAT. #CARPW SERIES EM-1 #CARPW12036X2SM4WLJATD STANPRO CAT. #PRMXL SERIES EM-1 #PRMXL10361-2N4LJ-AT LUMACELL CAT. #LAC SERIES EM-1 #LACXW1250LD7ATN	12V/120V	LED 2-4W PAR18	SURFACE	LED EXTRUDED ALUMINUM PICTOGRAM FIXTURE C/W GREEN FACE AND WHITE LEGEND, UNIVERSAL MOUNTING TO SUIT WALL, END OR CEILING, MAXIMUM 2.5" (63mm) THICKNESS, 12V INTERNAL SEALED RECHARGABLE BATTERY PROVIDING MINIMUM EMERGENCY WATTAGE AS NOTED BY THE CATALOGUE NUMBER AND AUTOTEST FEATURE. INTEGRAL 12V LED HEADS TO HAVE COMPACT DESIGN WITH WHITE COLOUR, FULL AIMING ADJUSTMENT, AND 360° ROTATION. WHERE NOTED UNIT SHALL BE C/W WIREGUARD. FACES AND CHEVRONS TO SUIT DRAWINGS.				
COMBO UNIT (WET-PROOF)	AIMLITE CAT. #CRPN SERIES EM-2 #CRPN12072XWH24WLRATDCW1 STANPRO CAT. #PRMRN SERIES EM-2 #PRMRN1072XWH-24LR/AT/CW1	12V/120V	LED 2-4W MR16	SURFACE	LED PICTOGRAM FIXTURE C/W GREEN FACE AND WHITE LEGEND, UNIVERSAL MOUNTING TO SUIT WALL, END OR CEILING, WHITE FINISH, COLD WEATHER RATING, 12V INTERNAL SEALED RECHARGABLE BATTERY PROVIDING MINIMUM EMERGENCY WATTAGE AS NOTED BY THE CATALOGUE NUMBER, AND AUTOTEST FEATURE. INTEGRAL 12V LED HEADS TO HAVE COMPACT DESIGN WITH WHITE COLOUR, FULL AIMING ADJUSTMENT, AND 360° ROTATION. WHERE NOTED UNIT SHALL BE C/W WIREGUARD. FACES AND CHEVRONS TO SUIT DRAWINGS. MUST BE NEMA 4X NSF2.				
EMERG. BATT.	AIMLITE #EBST12 SERIES: EM-3 #EBST12036-2SM4WLRWHT-ATD EM-4 #EBST120100-2SM4WLRWHT-ATD STANPRO CAT. #SLX12 SERIES EM-3 #SLA12036-2N4LJ/AT EM-4 #SLA120100-2N4LJ/AT LUMACELL CAT. #RGS SERIES EM-3 #RG12S361LD7ATN EM-4 #SLA120100-2N4LJ/AT	12V/120V	LED 2-4W MR16	SURFACE	LONG LIFE, SEALED RECHARGABLE BATTERY PROVIDING MINIMUM EMERGENCY WATTAGE AS NOTED BY THE CATALOGUE NUMBER C/W MICRO SIZE 12V 4W (MINIMUM) LED HEADS AND AUTOTEST FEATURE.				

LIGHTING CONTROL SYSTEMS SEQUENCE OF OPERATION		
NOTES:		
1. UPON COMPLETION OF THE INSTALLATION, THE SYSTEM SHALL BE COMMISSIONED BY A MANUFACTURER'S FACTORY AUTHORIZED THIRD PARTY REPRESENTATIVE WHO SHALL PROVIDE FUNCTIONAL TESTING AND DOCUMENTATION CONFORMING TO THE REQUIREMENTS OF ASHRAE 9.4.3. FUNCTIONAL THIRD PARTY TESTING SHALL INCLUDE DIGITAL ROOM CONTROL SYSTEMS. REFER TO RESPECTIVE SPECIFICATION SECTIONS. ALL COSTS SHALL BE INCLUDED IN TENDER PRICE.		
2. ALL INDICATED TIMES SHALL BE COORDINATED WITH OWNER. REPORT ANY DISCREPANCIES BETWEEN SEQUENCE AND CONTROL DEVICES TO ENGINEER PRIOR TO PROGRAMMING. COORDINATE PROGRAMMING OF ANY SPACES NOT LISTED (HEREIN) WITH OWNER.		
ROOM/AREA TYPE	CONTROL SEQUENCE / CONTROL DEVICE(S)	CONTROL SYSTEM
PARKING	ON: LIGHTS TURN ON AUTOMATICALLY AT SUNSET VIA PHOTOCELL OFF: LIGHTS REMAIN AT 50% UNTIL DAWN.	MULTI-POLE CONTACTOR(S)
EXTERIOR - PERIMETER	ON: LIGHTS TURN ON AUTOMATICALLY AT DUSK VIA PHOTOCELL. OFF: LIGHTS TURN-OFF AUTOMATICALLY AT DAWN VIA PHOTOCELL.	MULTI-POLE CONTACTOR(S)
OFFICES	ON: LIGHTS TURN ON AUTOMATICALLY WHEN OCCUPANCY IS DETECTED. OFF: 10 MINUTES AFTER THE ROOM HAS BEEN VACATED, THE LIGHTS WILL AUTOMATICALLY TURN OFF.	OCCUPANCY WALL SWITCH
TRAINING ROOMS, KITCHEN	ON: LIGHTS TURN ON AUTOMATICALLY WHEN OCCUPANCY IS DETECTED. OFF: 10 MINUTES AFTER THE ROOM HAS BEEN VACATED, THE LIGHTS WILL AUTOMATICALLY TURN OFF. ADJUST: OCCUPANT ADJUSTS LIGHT LEVELS IN EACH ZONE VIA WALL STATION.	DIGITAL ROOM CONTROL SYSTEM
WASHROOM, LOCKERS, FITNESS	ON: LIGHTS TURN ON WHEN OCCUPANCY (MOTION) IS DETECTED. OFF: 20 MINUTES AFTER THE ROOM HAS BEEN VACATED, THE LIGHTS WILL AUTOMATICALLY TURN OFF.	DIGITAL ROOM CONTROL SYSTEM
APPARATUS BAY	FIXTURES ARE TO BE CONTROLLED VIA 4-WAY WALL SWITCHES.	TOGGLE WALL SWITCH

LED LIGHT FIXTURE SCHEDULE						
	Manufacturer/Catalog Number	Voltage	Lamp	Mounting	Description	
L1	METALUX CAT. #22C22-32-UNV-L840-CD1-U LITHONIA CAT. #L840-32-UNV-L840-CD1-U CFI CAT. #22C22-32-UNV-L840-CD1-U	120V	LED 3334 LUMENS 4000K 24W	RECESSED	2'X2' (610mmX610mm) RECESSED SHALLOW VOLUMETRIC LED FIXTURE C/W OPAL ACRYLIC LENS AND 0-10V DIMMING DRIVER.	
L2	3G LIGHTING CAT. #3G-4RLJ-D750-S80-40K-UNV-DIM-WI-FL-S4 MARK CAT. #SL4L LOP 4FT FL P FL 80CRI 40K 800LMF MN1 120 FL/XXX-7 AXIS CAT. #EMRLD-795-80-40-L-W-UNV-DP-1-DF	120V	LED 2961 LUMENS 4000K 21W	RECESSED	4' (1220mm) LONG X 4" (102mm) WIDE GYPSUM BOARD FLANGED RECESSED DIRECT LUMINAIRE C/W 1% 0-10V DIMMING DRIVER, EXTRUDED ALUM. HOUSING, AND SATIN WHITE FLUSH DIFFUSER. STANDARD FINISH TO BE SELECTED BY ARCHITECT.	
L3	COOPER CAT. #4SNLED-LD5-44SL-SLW-UNV-L840-WG/SNF-4FT LITHONIA CAT. #4SNLED-LD5-44SL-SLW-UNV-L840-WG/SNF-4FT CFI CAT. #SDS42550LST-UN3-DIM-FKR-126-SDS4-WG	120V	LED 4681 LUMENS 4000K 39W	SUSPENDED /WALL	4' (1219mm) SUSPENDED LED STRIP LIGHT C/W WIDE LENSED OPTICAL DISTRIBUTION, 4' WIRE GUARD AND MOUNTING HARDWARE/SUSPENSION KIT.	
L4	COOPER CAT. #HC410D010-HM412840-41MDHWF LITHONIA CAT. #410D010-HM412840-41MDHWF LIGHTLINE CAT. #GEN04-1B-40-L-HW-S-N-X-N-1	120V	LED 1281 LUMENS 4000K 10W	RECESSED	RECESSED 4" (100mm) DIAMETER LED DOWNLIGHT C/W SELF-FLANGED 60 DEGREE BEAM REFLECTOR, SEMI-SPECULAR CLEAR FINISH, AND 1% 0-10V DIMMING DRIVER. ARCHITECT TO CONFIRM FLANGE FINISH. MUST BE WET LOCATION LISTED.	
L5	COOPER CAT. #4SNLED-LD5-22SL-SLW-UNV-L840-WG/SNF-4FT LITHONIA CAT. #4SNLED-LD5-22SL-SLW-UNV-L840-WG/SNF-4FT CFI CAT. #SDS42550LST-UN3-DIM-SDS4-WG	120V	LED 2200 LUMENS 4000K 20W	WALL	4' (1219mm) WALL MOUNTED LED STRIP LIGHT C/W WIDE LENSED OPTICAL DISTRIBUTION, 4' WIRE GUARD.	
L6	COOPER CAT. #HBLD-LD5-18SE-W-A/WG-120-L840-2-CD-2 LITHONIA CAT. #BG 18000LM SEF AFL GND 120 G210 40K 80CRI SIGNIFY CAT. #FBZ18L840-120-W-LFA	120V	LED 15413 LUMENS 4000K 122W	SUSPENDED	LED HIGHBAY FIXTURE C/W WIDE DISTRIBUTION OPTICS, SEMI-DIFFUSE ACRYLIC LENS AND TWO 0-10V DIMMING DRIVERS. NOTE FIXTURE TO BE FASTENED TO UNISTRUT CHANNELS SPANNING ACROSS THE TOP OF THE BOTTOM CHORD OF THE JOISTS. SUSPEND FIXTURE EVEN WITH THE BOTTOM OF JOISTS. ENTIRE FIXTURE ASSEMBLY IS TO HAVE A WHITE FINISH.	
L7	SISTEMALUX CAT. #1780C-B0-840-50-120-COL-D10 LITHONIA CAT. #X SENSO CAT. #LET11-S-25-40K-S45-CL-X-X-RD-X-1AF-X-010S-NA	120V	LED 2576 LUMENS 4000K 27W	SUSPENDED	LED SUSPENDED CYLINDER FIXTURE C/W DIE CAST ALUMINUM CONSTRUCTION, FLOOD DISTRIBUTION OPTICS, CLEAR PROTECTION GLASS DIFFUSER AND 0-10V DIMMING DRIVER. CONFIRM EXACT MOUNTING HEIGHT/STEM LENGTH WITH ARCHITECT. ENTIRE FIXTURE ASSEMBLY IS TO HAVE FINISH TO SUIT ARCHITECT.	
L7A	SISTEMALUX CAT. #1770C-H0-840-50-120-COL-D10 LITHONIA CAT. #X SIGNIFY CAT. #LET11-S-20-40K-S45-CL-X-X-RD-X-1AF-X-010S-NA	120V	LED 1885 LUMENS 4000K 20W	SUSPENDED	LED SUSPENDED CYLINDER FIXTURE C/W DIE CAST ALUMINUM CONSTRUCTION, FLOOD DISTRIBUTION OPTICS, CLEAR PROTECTION GLASS DIFFUSER AND 0-10V DIMMING DRIVER. CONFIRM EXACT MOUNTING HEIGHT/STEM LENGTH WITH ARCHITECT. ENTIRE FIXTURE ASSEMBLY IS TO HAVE FINISH TO SUIT ARCHITECT.	
L8	3G LIGHTING CAT. #3G-4PLJ-D1000-L250-S80-40K-UNV-DIM-FL-FL-XX-120-1C-S-8 MARK CAT. #S4LD SERIES AXIS CAT. #T30LED-300-1000-80-40-SO-SO-8-COL-UNV-DP-1-CA(120)	120V	LED 4939 LUMENS 4000K 35W	SUSPENDED WITH BOTTOM AFF (TBC WITH ARCHITECT)	8' (2440mm) LONG X 3.5" (89mm) WIDE DIRECT (67%) / INDIRECT (33%) SUSPENDED LUMINAIRE C/W AIRCRAFT CABLE SUSPENSION (CHORD LENGTH TBD ON SITE), STRUCTURE MOUNTING, EXTRUDED ALUMINUM HOUSING, AND 1% 0-10V DIMMING DRIVER, AND SATIN WHITE FLUSH DIFFUSERS (UP/DOWN). STANDARD FINISH TO BE SELECTED BY ARCHITECT.	
L8A	3G LIGHTING CAT. #3G-4PLJ-D1000-L250-S80-40K-UNV-DIM-DASY-XX-120-1C-S-8 MARK CAT. #S4LD SERIES AXIS CAT. #T30LED-1000-80-40-ASO-8-COL-UNV-DP-1-CA(120)	120V	LED 4939 LUMENS 4000K 35W	SUSPENDED WITH BOTTOM AFF (TBC WITH ARCHITECT)	8' (2440mm) LONG X 3.5" (89mm) WIDE DIRECT (100%) SUSPENDED LUMINAIRE C/W ASYMMETRIC DISTRIBUTION, AIRCRAFT CABLE SUSPENSION (CHORD LENGTH TBD ON SITE), STRUCTURE MOUNTING, EXTRUDED ALUMINUM HOUSING, AND 1% 0-10V DIMMING DRIVER, AND SATIN WHITE FLUSH DIFFUSER. STANDARD FINISH TO BE SELECTED BY ARCHITECT.	
L10	COOPER CAT. #VP4-L-A2A-2-40K-L10 STANDARD CAT. #T4-L-S2B-80W/40K/L10 CFI CAT. #VTS42856LBCST-UN3-DIM	120V	LED 4120 LUMENS 4000K 33W	SUSPENDED	4' (1276mm) COMPACT LED FIXTURE C/W DURABLE POLYCARBONATE HOUSING, UV STABILIZED POLYCARBONATE LENS. WET LOCATION AND IP65. MOUNTING HARDWARE/SUSPENSION KIT SHOULD BE CHOSEN ACCORDING TO ARCH. ROOM ELEVATION.	
L11	PRISM CAT. #6020-FL-3W24V-40K-IP43 C/W #6100-AP-SM-1612 AND #5015-PSU-XXW24V-JB-CL2 LIU ARCHITECTURAL CAT. #LLI-L4.4W-20-40K-24V-90-XX C/W #LLI-XS-SQR-SA-F-XXIN AND #LLI-PS-NDF-XXW-24V-90-XX C/W LUMINIX LIGHTING CAT. #LL42-VHO-41K-SL-NC-X C/W KLC-X-F-FC-SA AND #PS-ND-B-96-24 POWER SUPPLY	120V	LED 322 LUMENS 4000K 3W	SURFACE	LED TAPE LIGHT C/W REMOTE NON-DIMMING DRIVER, LOW PROFILE ALUMINUM MOUNTING CHANNEL, AND FROSTED LENS. PROVIDE MOUNTING CLIPS, JOINERS, END CAPS, DRIVERS AS REQUIRED, AND ALL OTHER ACCESSORIES REQUIRED TO PROVIDE A COMPLETE SYSTEM INSTALLATION. THIS CONTRACTOR IS TO COORDINATE LENGTHS OF RUNS REQUIRED WITH RUNS AS SHOWN ON DRAWINGS. COORDINATE EXACT PLACEMENT OF DRIVER WITH MILLWORK AND MANUFACTURER'S INSTALLATION INSTRUCTIONS. NOTE: QUOTED LUMEN AND WATTAGE VALUES ARE PER FOOT.	
NOTES:	① LED LUMEN VALUES QUOTED FOR FIXTURES ARE TO BE CONSIDERED MINIMUM, AND AS ABSOLUTE OR DELIVERED LUMENS. LUMEN VALUES SHOULD NOT EXCEED MORE THAN 10% OF SPECIFIED OUTPUT.					
	② IF THERE ARE ANY DISCREPANCIES BETWEEN THE FIXTURE PART NUMBER AND DESCRIPTION, IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO BRING THESE TO THE ELECTRICAL CONSULTANT'S ATTENTION PRIOR TO TENDER CLOSE. NO EXTRAS WILL BE ENTERTAINED FOR FAILURE TO DO SO. FINAL FIXTURE CHARACTERISTICS AND DESCRIPTION WILL BE MARKED BY CONSULTANT AT TIME OF SHOP DRAWING REVIEW.					

FLOOR BOX SCHEDULE							
ITEM	MANUFACTURER/CATALOG NUMBER	TYPE	CONFIGURATION	FINISH	FIRE RATING	NO. OF GANGS	DESCRIPTION
FB1	HUBBELL BOX CAT. #CFB4G25RCRE COVER CAT. #CFBS1R6CVRXXX	CAST IN PLACE SLAB ON GRADE	ONE (1) 20A DECORA RECEPTACLE. TWO (2) DATA DROPS.	TBD	N/A	4	4 GANG RECESSED CONCRETE FLOORBOX C/W DEVICES AS NOTED AND FLUSH SURFACE ROUND COVER TO SUIT ARCHITECTURAL AND INTERIOR DESIGN FINISH. PROVIDE 1-27mmC FOR POWER AND 1-41mmC FOR DATA UNDERNEATH FLOOR SLAB TO SUIT LOCATION AS SHOWN.
FB2	HUBBELL BOX CAT. #CFB4G25RCRE COVER CAT. #CFBS1R6CVRXXX	CAST IN PLACE SLAB ON GRADE	TWO (2) 20A DECORA RECEPTACLES. TWO (2) DATA DROPS.	TBD	N/A	4	4 GANG RECESSED CONCRETE FLOORBOX C/W DEVICES AS NOTED AND FLUSH SURFACE ROUND COVER TO SUIT ARCHITECTURAL AND INTERIOR DESIGN FINISH. PROVIDE 1-27mmC FOR POWER AND 1-41mmC FOR DATA UNDERNEATH FLOOR SLAB TO SUIT LOCATION AS SHOWN.

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.
The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.
The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions.
Drawings and specifications, etc., prepared and issued by the Consultant are the property of the Consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant.
Do not scale this drawing.
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REVISIONS:		
NO.:	DATE:	ISSUED:
1.	2024.11.29	ISSUED FOR 60% COORDINATION
2.	2024.12.20	RE-ISSUED FOR 60% COORDINATION
3.	2025.02.14	ISSUED FOR CLASS A COST ESTIMATION
4.	2025.05.20	ISSUED FOR PERMIT
5.	2025.06.05	ISSUED FOR REVIEW
6.	2025.06.13	REISSUED FOR PERMIT
7.	2025.07.09	ISSUED FOR TENDER
A.	2025.08.05	ADDENDUM 01

55 Northland Road,
Waterloo, ON N2V 1Y8
Phone: 519-725-3555
Website: deiconsultants.ca
Project Number: 2410

PROJECT:

**NORTH PARIS
FIRE STATION**

21 ANN WILSON WAY
(SCOTT AVE)

COUNTY PROJECT NO.:

CPS-RFT-25-03

DRAWING TITLE:

**LIGHT FIXTURE
SCHEDULE**

DATE: 2025.07.09

SCALE: As Noted

DRAWN: KF

STATUS: TENDER

JOB NO.: 2411

DRAWING NO.:

E104

EQUIPMENT WIRING SCHEDULE

E = ELECTRICAL
M = MECHANICAL
O = OTHERS

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.

The Consultant's management of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.

The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions.

Drawings and specifications, etc., prepared and issued by the Consultant are the property of the Consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant.

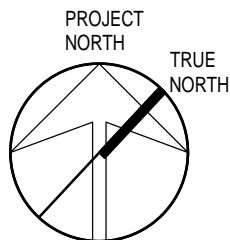
Do not scale this drawing.

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REVISIONS:

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7	2025.07.09	ISSUED FOR TENDER
A	2025.08.05	ADDENDUM 01

Description		Electrical Data		Generator		Starter		Ctrl Device		Isolating Device		Remote Items										Other		Interlock		Remarks																					
Mechanical Item	Description	Provided By	Voltage	Size hp/kW/Amps	Phase	MOCP	Critical Data Infrastructure	Emergency – Smoke Movement & Venting	Standby (Non-Life Safety)	Magnetic	Manual	Combination	Contactors	VFD	ECM	Hand/Off/Auto	On/Off Selector	Hand/Auto	Pilot Light	Disconnect	WP Disconnect	Breaker/Fuse	Starter/Device Wired by	Thermostat	RA Thermostat		Humidistat	Variable Speed Control	Current Sensor	Occ Sensor	Dual Voltage Relay	Interval Timer	VRF System Control Panel	CO/NOX CONTROL PANEL	Control Panel	Wired by	Bldg Auto System	Wired By	Motor Rated Switch with Pilot Light	H.O. and H.O.A. Control Switches	Interlock to	Interlock by					
HWH-1	ELECTRIC HOT WATER HEATER	M	575	18KW	3															E	E	E																									
HWH-2	ELECTRIC HOT WATER HEATER	M	575	18KW	3															E	E	E	E												M	M		BP-1, BP-3	M								
B-1	COMBI BOILER	M	120	2.2 A	1			Y		E							E			E	E	E													M	M		BP-2, BP-4	M								
B-2	COMBI BOILER	M	120	2.2 A	1			Y		E							E			E	E	E													M	M		BP-5	M								
B-3	BOILER	M	120	2.2 A	1			Y		E							E			E	E	E													M	M		EDH-1, 3	M								
ERV-1	ENERGY RECOVERY VENTILATOR – HORIZONTAL	M	208	18.2 FLA	3	25		Y												E	E	E				M			M				M	M	M				ERV-1	M							
EDH-1	ELECTRIC DUCT HEATER (WASHROOMS, ETC)	M	575	6 KW	3			Y												E	E	E	M											M	M	M				ERV-1	M						
EDH-2	ELECTRIC DUCT HEATER (TRAINING ROOM)	M	575	3 KW	3			Y												E	E	E	M											M	M	M				AHU-1	M						
EDH-3	ELECTRIC DUCT HEATER (OFFICES)	M	575	2 KW	3			Y												E	E	E	M											M	M	M				ERV-1	M						
AHU-1	INDOOR SPLIT (TRAINING ROOM/KITCHEN)	M	208	1A	1	15		Y												E	E	E	M										M	M							HP-1, EDH-2	M	SUBFED FROM HP-1				
FC-1	DX FAN COIL (STATION OFFICE 105)	M	208	0.25 A	1	15														E	E	E	M										M	M	M						HP-2		SUBFED FROM HP-2				
FC-2	DX FAN COIL (STATION OFFICE 106)	M	208	0.25 A	1	15														E	E	E	M										M	M	M						HP-2		SUBFED FROM HP-2				
FC-3	DX FAN COIL (STATION OFFICE 112)	M	208	0.25 A	1	15														E	E	E	M										M	M	M						HP-2		SUBFED FROM HP-2				
CRAC-1	COMPUTER ROOM AIR CONDITIONER – LIEBERT PDX	M	208	34.2 FLA	1	45	Y													E	E	E	M			M							M	M	M	M					P-6, DC-1	M					
HP-1	SINGLE ZONE HEAT PUMP – TRAINING ROOM	M	208	32 MCA	1	40		Y													E	E	E											M	M							AHU-1	M				
HP-2	MULTI-ZONE HEAT PUMP – OFFICES	M	208	19 MCA	1	25														E	E	E												M	M							FC-1,2,3	M				
CU-1	DRY COOLER FOR CRAC UNIT	M	208	13.4 FLA	1	25	Y													E	E	E											M	M							CRAC-1	M					
ASHP-1	AIR SOURCE HEAT PUMP	M	575	35.7 MCA	3	50															E	E	E									M			M							HX-1, HX-2	M				
HX-1	ASHP HYDRO KIT	M	208	0.1 MCA	1	15														E	E	E										M		M	M	M						P-1, ASHP-1	M				
HX-2	ASHP HYDRO KIT	M	208	0.1 MCA	1	15														E	E	E										M		M	M	M						P-2, ASHP-1	M				
P-1	CIRCULATION PUMP – ASHP SYSTEM	M	120	454 W	1											M				E	E	E										M		M	M	M						HX-1	M				
P-2	CIRCULATION PUMP – ASHP SYSTEM	M	120	454 W	1											M				E	E	E										M		M	M	M						HX-2	M				
P-3	CIRCULATION PUMP – IN-FLOOR SYSTEM WEST	M	120	432 W	1				Y							M				E	E	E	M											M	M	M	M										
P-4	CIRCULATION PUMP – IN-FLOOR SYSTEM EAST	M	120	432 W	1				Y							M				E	E	E	M											M	M	M	M										
BP-1	BOILER CIRC PUMP	M	208	448 W	1				Y							M				E	E	E	M											M	M	M	M							B-1	M		
BP-2	BOILER CIRC PUMP	M	208	448 W	1				Y							M				E	E	E	M											M	M	M	M							B-2	M		
BP-3	BOILER CIRC PUMP	M	120	38 W	1				Y							M				E	E	E	M											M	M	M	M							B-1	M		
BP-4	BOILER CIRC PUMP	M	120	38 W	1				Y							M				E	E	E	M											M	M	M	M							B-2	M		
BP-5	BOILER CIRC PUMP	M	120	448 W	1				Y							M				E	E	E	M											M	M	M	M							B-3	M		
MP-1	ZONE 1A MANIFOLD PUMP	M	120	1/2 HP	1				Y											E	E	E	M											M	M/E	M	M										
MP-2	ZONE 1B MANIFOLD PUMP	M	120	1/2 HP	1				Y											E	E	E	M											M	M/E	M	M										
MP-3	ZONE 2, 3, & 4 MANIFOLD PUMP	M	120	1/2 HP	1				Y											E	E	E	M											M	M/E	M	M										
RP-1	DOMESTIC RECIRC PUMP	M	120	38 W	1															E	E	E	M											M	M/E	M	M										
WS-1	WATER SOFTENER (DUPELX)	M	120	FHP	1															E	E	E																						PROVIDE RECEPTACLE			
UH-1	HYDRONIC UNIT HEATER	M	120	1/4 HP	1				Y											E	E	E	M											M	M	M											
UH-2	HYDRONIC UNIT HEATER	M	120	1/4 HP	1				Y											E	E	E	M											M	M	M											
UH-3	HYDRONIC UNIT HEATER	M	120	1/4 HP	1				Y											E	E	E	M											M	M	M											
UH-4	HYDRONIC UNIT HEATER	M	120	1/4 HP	1				Y											E	E	E	M											M	M	M											
UH-5	HYDRONIC UNIT HEATER	M	120	1/4 HP	1				Y											E	E	E	M											M	M	M											
UH-6	HYDRONIC UNIT HEATER	M	120	1/4 HP	1				Y											E	E	E	M											M	M	M											
UH-7	HYDRONIC UNIT HEATER	M	120	1/4 HP	1				Y											E	E	E	M											M	M	M											
UH-8	HYDRONIC UNIT HEATER	M	120	1/6 HP	1				Y											E	E	E	M											M	M	M											
EF-1A	EXHAUST FAN (BUNKER GEAR 109) SMALL	M	120	FHP	1															E	E	E																						LIGHTS	E		
EF-1B	EXHAUST FAN (BUNKER GEAR 109) LARGE	M	120	FHP	1															E	E	E			M					M	M			M	M	M									HUMIDISTAT AND INTERVAL TIMER IN PARALLEL		
EF-2	EXHAUST FAN (EXTRACT 118)	M	120	FHP	1															E	E	E		M	M									M													
EF-3	SIDEWALL EXHAUST FAN	M	575	0.75 HP	3						E								E	E	E	E	M											M													
EF-4	EXHAUST FAN (ANTIQUE TRUCK DISPLAY 114) CO/NO2	M	120	FHP	1				Y			E								E	E	E								M			M	M/E	M	M	M										
EF-5	EXHAUST FAN (ELECTRICAL ROOM 123)	M	208	0.33 HP	1				Y											E	E	E		M										E										RA THERMOSTAT			
EF-6	EXHAUST FAN (MECH ROOM 125)	M	120	FHP	1															E	E	E		M										E										RA THERMOSTAT			
EF-7	EXHAUST FAN (ANTIQUE TRUCK DISPLAY 114) SMALL	M	120	5.1 A	1															E	E	E																						LIGHTS	E		
EF-8	EXHAUST FAN (APPARATUS BAY) HEAT	M	575	1.5 HP	3							E							E	E	E	E		M										M	M	M											
EF-9	EXHAUST FAN (APPARATUS BAY) CO/NO2	M	575	1.5 HP	3				Y			E							E	E	E	E												M		M	M	M									
EF-10	EXHAUST FAN (NETWORK ROOM)	M	120	FHP	1															E	E	E							M					M	M	M									LIGHTS, NOVEC-CP	M/E	INTERLOCK TO DRY CHEMICAL FIRE SUPPRESSION
EF																																															



PROJECT

NORTH PARIS FIRE STATION

21 ANN WILSON WAY
(SCOTT AVE)

CLIENT:



COUNTY PROJECT NO.

CPS-RFT-25-03

DRAWING TITLE:

EQUIPMENT WIRING SCHEDULE

DATE: 2025.07.09

SCALE: As Noted

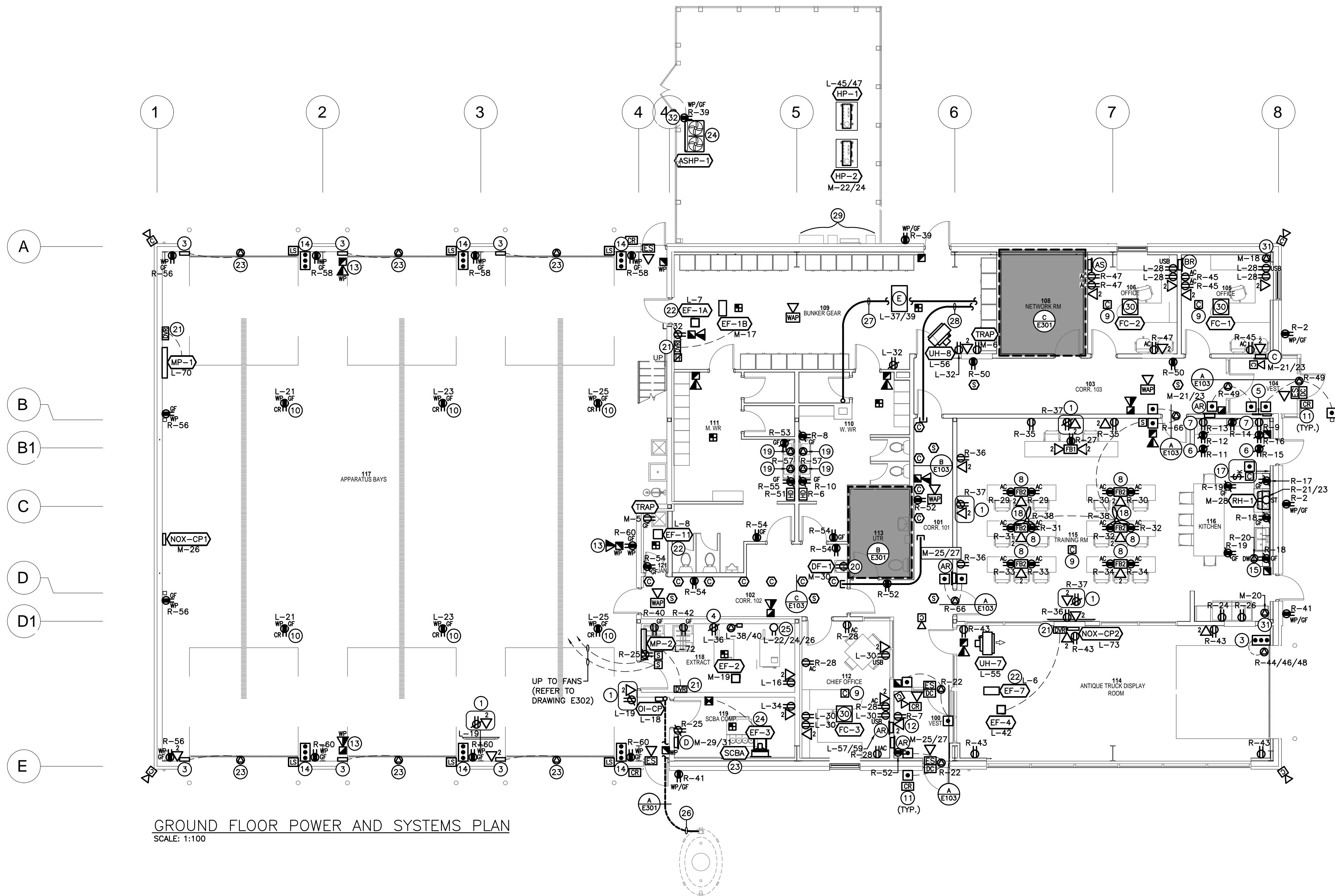
DRAWN: KF

STATUS: TENDER

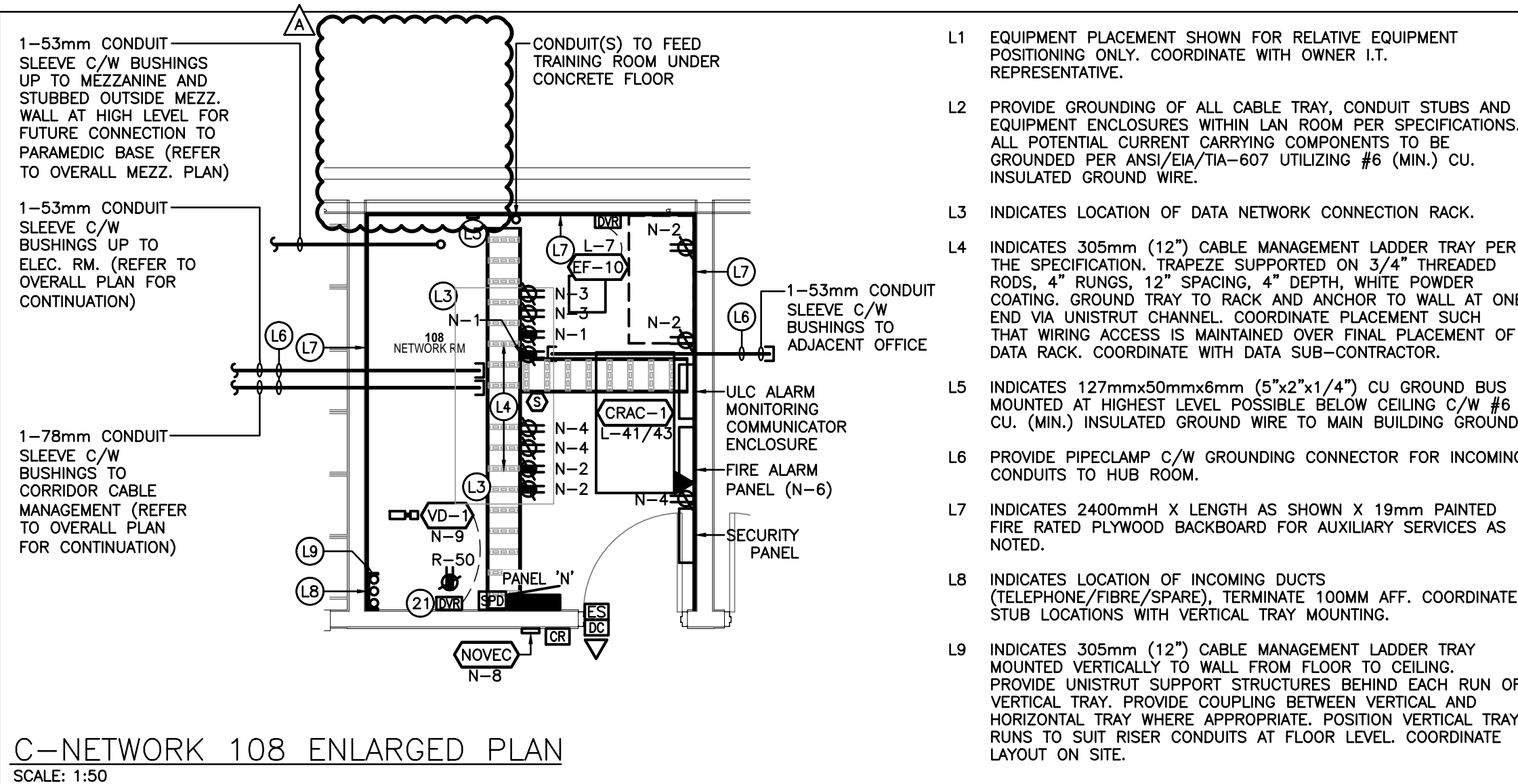
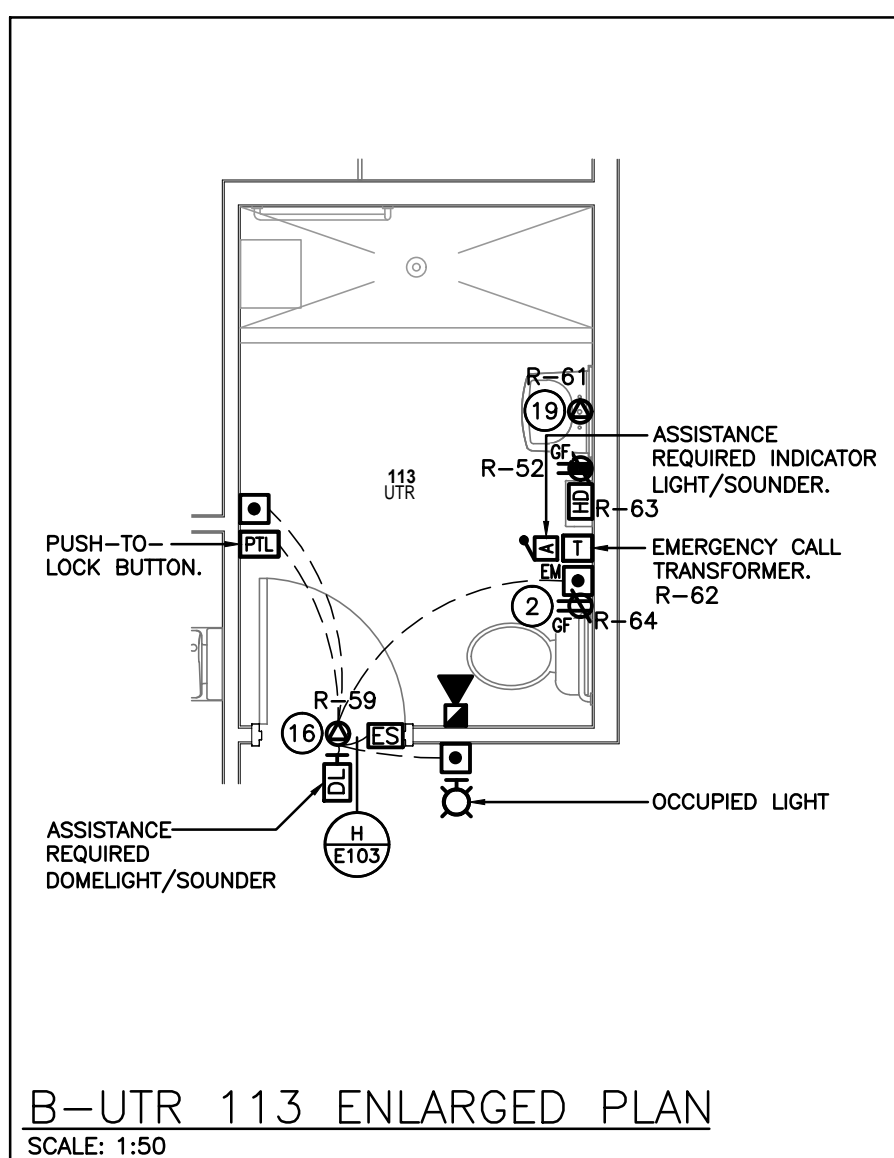
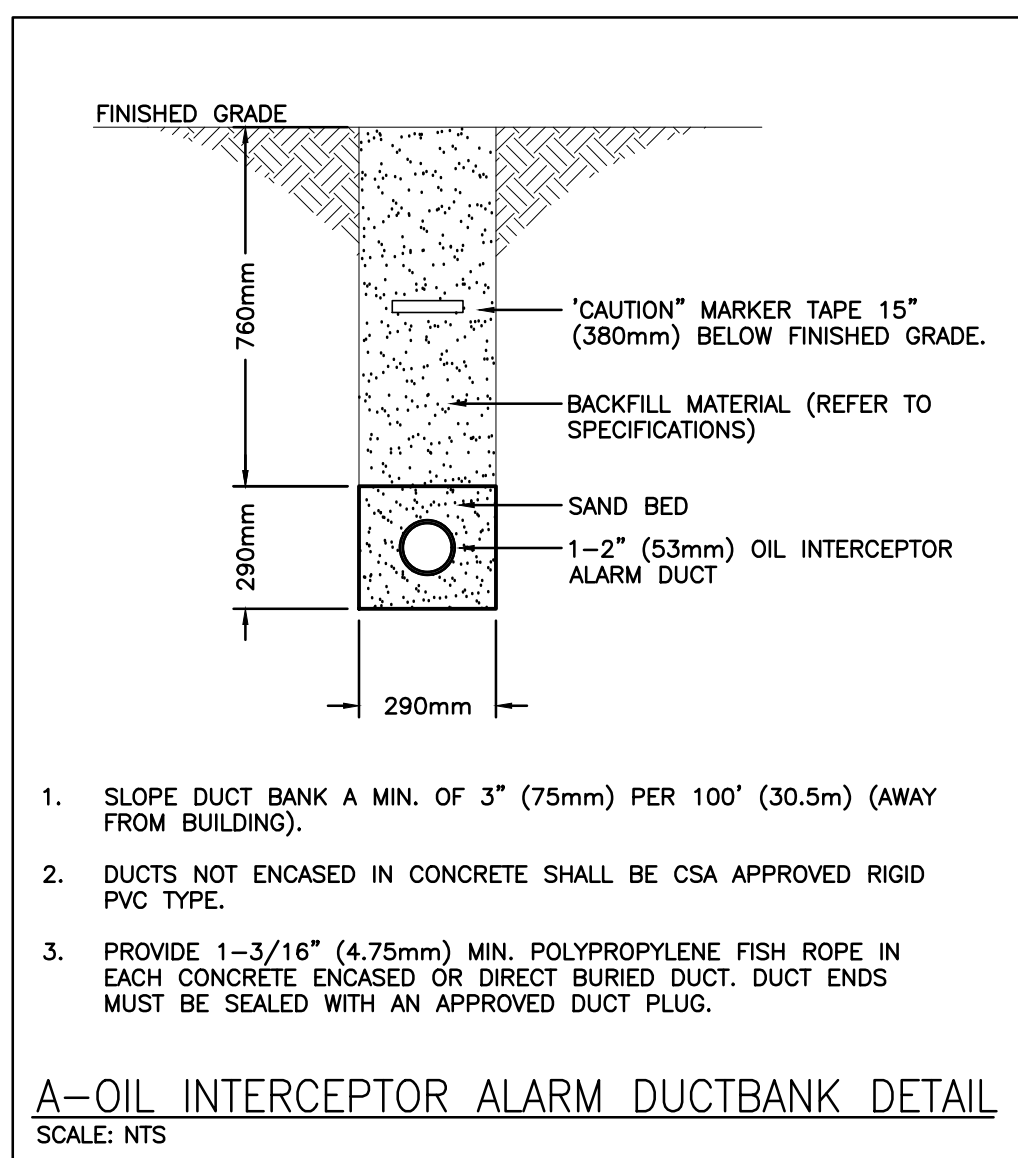
JOB NO.: 2411

DRAWING NO.

E105



GROUND FLOOR POWER AND SYSTEMS PLAN
SCALE: 1:100



SPECIFIC NOTES

- PROVIDE DEVICES FOR OWNER'S TV. CONFIRM EXACT LOCATION AND MOUNTING HEIGHT WITH OWNER/ARCH.
- INDICATES RECEPTACLE MOUNTED AT HIGH LEVEL FOR FUTURE LIFT. CONFIRM EXACT LOCATION AND MOUNTING HEIGHT WITH SCHOOL BOARD.
- INDICATES OVERHEAD DOOR CONTROL PANEL COMPLETE WITH ELECTRIC DOOR OPERATOR / MOTOR AND LIMIT SWITCHES. CONTRACTOR SHALL PROVIDE PER OWNER'S SPECIFICATION. IT'S THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE A COMPLETE INSTALLATION AND FUNCTIONAL SYSTEM.
- INDICATES EXTRACTOR CONNECTION/DISCONNECT AND RECEPTACLE FOR EXTRACTOR CHEMICAL PUMP. COORDINATE EXACT REQUIREMENTS WITH EXTRACTOR PROVIDER.
- INDICATES LOCATION OF FIRE ALARM ANNUNCIATOR AND PASSIVE GRAPHIC.
- PROVIDE RECEPTACLE FOR OWNER'S MICROWAVE. CONFIRM EXACT LOCATION/MOUNTING LOCATION/MOUNTING HEIGHT WITH MILLWORK PROVIDER.
- PROVIDE RECEPTACLE FOR OWNER'S UNDER-COUNTER FRIDGE. CONFIRM EXACT LOCATION/MOUNTING HEIGHT WITH MILLWORK PROVIDER.
- PROVIDE FLOOR BOX C/W POWER CONDUITS TO NEAREST PARTITION.
- INDICATES MULTI-POLE CONTACTOR(S) C/W PILOT LIGHT PER SPECIFICATIONS FOR CONTROL OF NOTED AUTOMATICALLY CONTROLLED RECEPTACLE CIRCUITS (AC) IN OFFICES AND TRAINING ROOM VIA BAS INPUT.
- PROVIDE CORD REEL RECEPTACLE AS PER DETAIL F/E103. CONFIRM EXACT LOCATION IN THE FIELD WITH OWNER PRIOR TO COMMENCEMENT OF WORK.
- PROVIDE DEVICE ROUGH-INS FOR SECURITY SYSTEM ACCESS CONTROL IN LOCATIONS SHOWN. PROVIDE DEVICE BACKBOXES C/W 21mmC TO SECURE SIDE OF DOORWAY IN JUNCTION BOX AT HIGH LEVEL.
- INDICATES DEVICES FOR OWNER'S BOOK VENDING MACHINE. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- INDICATES DEVICE TO BE C/W 75 CANDELA STROBE MINIMUM.
- INDICATES OVERHEAD DOOR OPENER. CONTRACTOR SHALL CONFIRM REQUIREMENTS WITH OWNER.
- PROVIDE CONNECTION FOR OWNER'S UNDERCOUNTER DISHWASHER. CONFIRM EXACT LOCATION/MOUNTING HEIGHT WITH MILLWORK PROVIDER.
- INDICATES HANDICAP DOOR OPERATOR ROUGH-IN PER DETAIL C/W "PUSH TO LOCK" BUTTON (TO LOCK THE DOOR AND DISABLE THE EXTERIOR WALL SWITCH) AND DOME LIGHT IN CORRIDOR. PUSHBUTTON HARDWARE PROVIDED BY DOOR HARDWARE SUPPLIER. THIS CONTRACTOR TO PROVIDE SINGLE GANG BOX ALONG WITH CONDUIT/CONNECTIONS AND DOME LIGHT AS SHOWN. REFER TO DETAIL H/E103.
- INDICATES 208V, 50A-2P, CONTACTOR FOR CONTROLLING KITCHEN/DAY ROOM STOVE. CONTACTOR SHALL BE COMPLETE WITH 120V INTEGRAL CONTROL TRANSFORMER, HAND/OFF/AUTO SELECTOR SWITCH AND RED PILOT LIGHT. CONTACTOR SHALL BE CONTROLLED THROUGH KEYED SWITCH AND EMERGENCY PUSHBUTTON AS PER DETAIL J/E103. MOUNT CONTACTOR ON WALL TO SUIT.
- COORDINATE EXACT LOCATION/MOUNTING HEIGHT OF CEILING FANS WITH LIGHTS/BAFFLES/STRUCTURE/DUCTWORK. CONFIRM WITH ARCHITECT.
- INDICATES CONNECTION FOR AUTOMATIC FAUCET. CONFIRM LOCATION/REQUIREMENTS WITH MECHANICAL TRADE PRIOR TO ROUGH-IN.
- INDICATES RECEPTACLE FOR REFRIGERATED DRINKING FOUNTAIN. CONFIRM LOCATION/REQUIREMENTS WITH MECHANICAL TRADE PRIOR TO ROUGH-IN.
- INDICATES DUAL VOLTAGE RELAY WALL MOUNTED WITHIN CEILING SPACE ADJACENT TO NOTED MECHANICAL EQUIPMENT.
- INDICATED EXHAUST FAN TO BE CONTROLLED WITH LIGHTS. REFER TO EWS.
- INDICATED EQUIPMENT FED FROM DISTRIBUTION PANEL "DP-GEN". REFER TO DISTRIBUTION RISER DIAGRAM.
- INDICATED EQUIPMENT FED FROM MAIN SWITCHBOARD "AAA". REFER TO DISTRIBUTION RISER DIAGRAM.
- INDICATES EXTRACTOR RECEPTACLE. FOR PRICING PURPOSES USE NEMA 15-50R TYPE AND COORDINATE EXACT REQUIREMENTS/BREAKER SIZE WITH EXTRACTOR PROVIDER.
- INDICATES 1-50mm (2") CONDUIT RUN BETWEEN ALARM PANEL AND OIL INTERCEPTOR. CONFIRM EXACT REQUIREMENTS WITH MECHANICAL TRADE. WIRING BY MECHANICAL TRADE.
- INDICATES 1-53mm COMMUNICATIONS CONDUIT (REFER TO ENLARGED PLAN C/E301 FOR CONTINUATION).
- INDICATES 1-63mm COMMUNICATIONS CONDUIT (REFER TO ENLARGED PLAN C/E301 FOR CONTINUATION).
- INDICATES APPROXIMATE LOCATION OF SOLAR EQUIPMENT BY OTHERS.
- INDICATED FC UNIT SUB-FED FROM HP-2. REFER TO EWS.
- INDICATES CONNECTION FOR HEAT TRACING PROVIDED BY MECHANICAL TRADE. THIS CONTRACTOR IS TO PROVIDE 120V CIRCUIT AND CONNECTION TO SUIT. COORDINATE EXACT LOCATION/REQUIREMENTS WITH MECHANICAL TRADE. PRIOR TO ROUGH-IN.

SEISMIC RESTRAINT OF ELECTRICAL SYSTEMS

- IT'S THE CONTRACTOR'S RESPONSIBILITY TO INCLUDE ALL WORK AND MATERIALS RELATED TO SEISMIC RESTRAINT SYSTEMS FOR ALL ELECTRICAL EQUIPMENT AND COMPONENTS ON THIS PROJECT. ALL EQUIPMENT AND COMPONENTS SHALL BE RESTRAINED TO MEET SEISMIC CODE REQUIREMENTS. CONTRACTOR MUST PROVIDE ALL SEISMIC RESTRAINT MATERIALS TO MANUFACTURER'S WRITTEN INSTRUCTIONS.

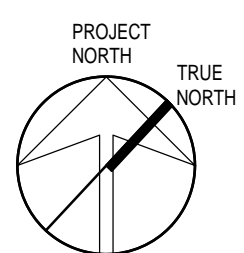
HEATER SCHEDULE

Item	Manufacturer/Catalog Number
AR	1125 WATT 208 VOLT SINGLE PHASE FAN FORCED HEATER C/W RECESSED MOUNTING BOX, INTEGRAL TAMPERPROOF THERMOSTAT AND STANDARD FACTORY FINISH TO SUIT ARCHITECT. OUELLET CAT. #OAC01500-T
AS	1125 WATT 208 VOLT SINGLE PHASE FAN FORCED HEATER C/W SURFACE MOUNTING BOX, INTEGRAL TAMPERPROOF THERMOSTAT AND STANDARD FACTORY FINISH TO SUIT ARCHITECT. OUELLET CAT. #OAC01500-T C/W KIT-OAC-B51
BR	1500 WATT 208 VOLT SINGLE PHASE FAN FORCED HEATER C/W RECESSED MOUNTING BOX, INTEGRAL TAMPERPROOF THERMOSTAT AND STANDARD FACTORY FINISH TO SUIT ARCHITECT. OUELLET CAT. #OAC02000-T
BS	1500 WATT 208 VOLT SINGLE PHASE FAN FORCED HEATER C/W SURFACE MOUNTING BOX, INTEGRAL TAMPERPROOF THERMOSTAT AND STANDARD FACTORY FINISH TO SUIT ARCHITECT. OUELLET CAT. #OAC02000-T C/W KIT-OAC-B51
C	2000 WATT 208 VOLT SINGLE PHASE FAN FORCED HEATER C/W RECESSED MOUNTING BOX, INTEGRAL TAMPERPROOF THERMOSTAT AND STANDARD FACTORY FINISH TO SUIT ARCHITECT. OUELLET CAT. #OAC02008-T
D	3000 WATT 208 VOLT SINGLE PHASE FAN FORCED HEATER C/W SURFACE MOUNTING BOX, INTEGRAL TAMPERPROOF THERMOSTAT AND STANDARD FACTORY FINISH TO SUIT ARCHITECT. OUELLET CAT. #OAC04000-T C/W KIT-OAC-B51
E	3000 WATT 208 VOLT SINGLE PHASE FAN FORCED CEILING HEATER C/W SURFACE MOUNTING BOX, INTEGRAL TAMPERPROOF THERMOSTAT AND STANDARD FACTORY FINISH TO SUIT ARCHITECT. OUELLET CAT. #OACP4000-T

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.
The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.
The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions.
Drawings and specifications, etc., prepared and issued by the Consultant are the property of the Consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant.
Do not scale this drawing.
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REVISIONS:

NO.:	DATE:	ISSUED:
1.	2024.11.29	ISSUED FOR 60% COORDINATION
2.	2024.12.20	RE-ISSUED FOR 60% COORDINATION
3.	2025.02.14	ISSUED FOR CLASS A COST ESTIMATION
4.	2025.05.20	ISSUED FOR PERMIT
5.	2025.06.05	ISSUED FOR REVIEW
6.	2025.06.13	REISSUED FOR PERMIT
7.	2025.07.09	ISSUED FOR TENDER
A	2025.08.05	ADDENDUM 01



Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC

PROJECT:

**NORTH PARIS
FIRE STATION**

**21 ANN WILSON WAY
(SCOTT AVE)**

CLIENT:



COUNTY PROJECT NO.:

CPS-RFT-25-03

DRAWING TITLE:

**GROUND FLOOR POWER
AND SYSTEMS**

DATE: 2025.07.09

SCALE: As Noted

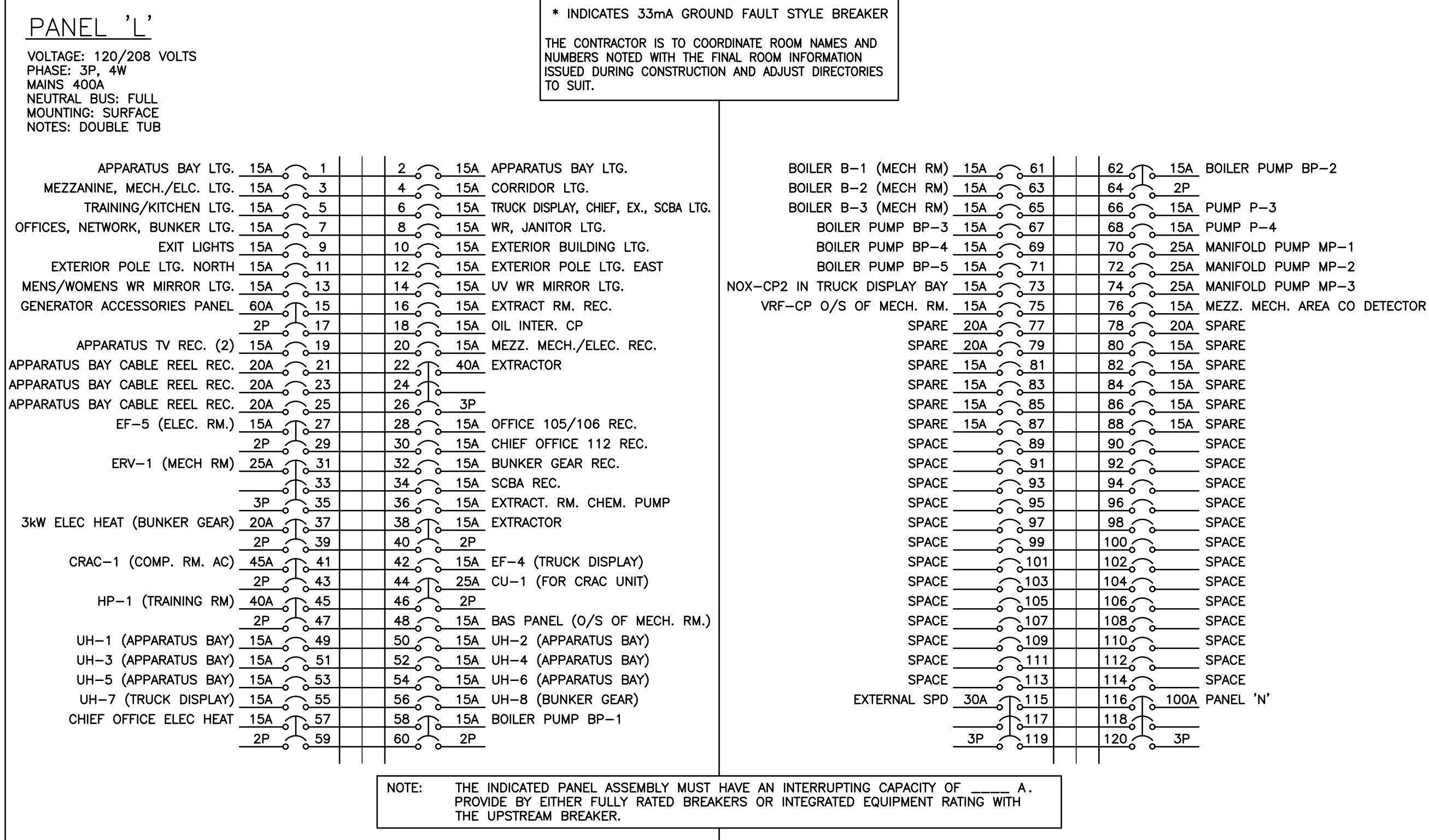
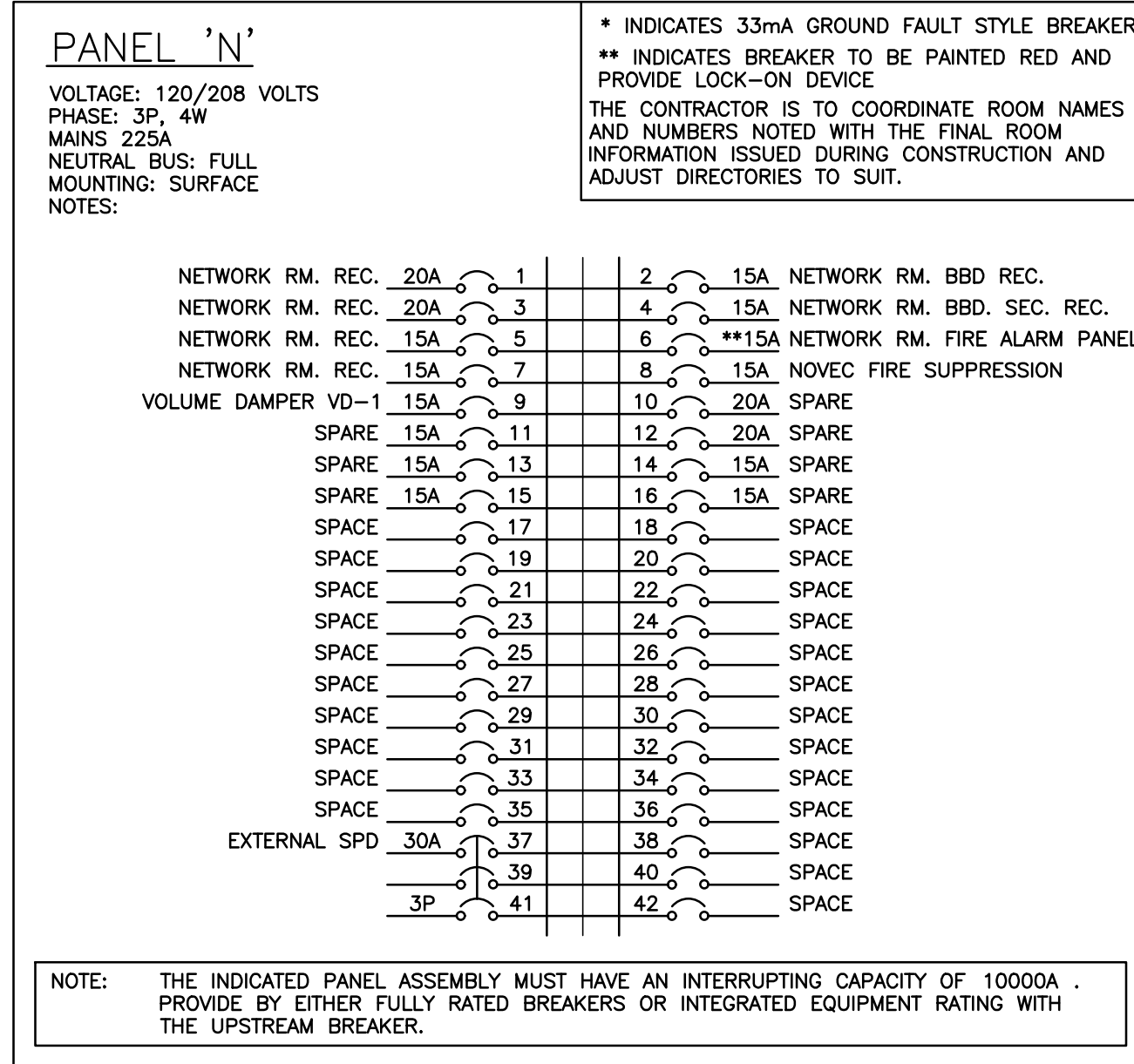
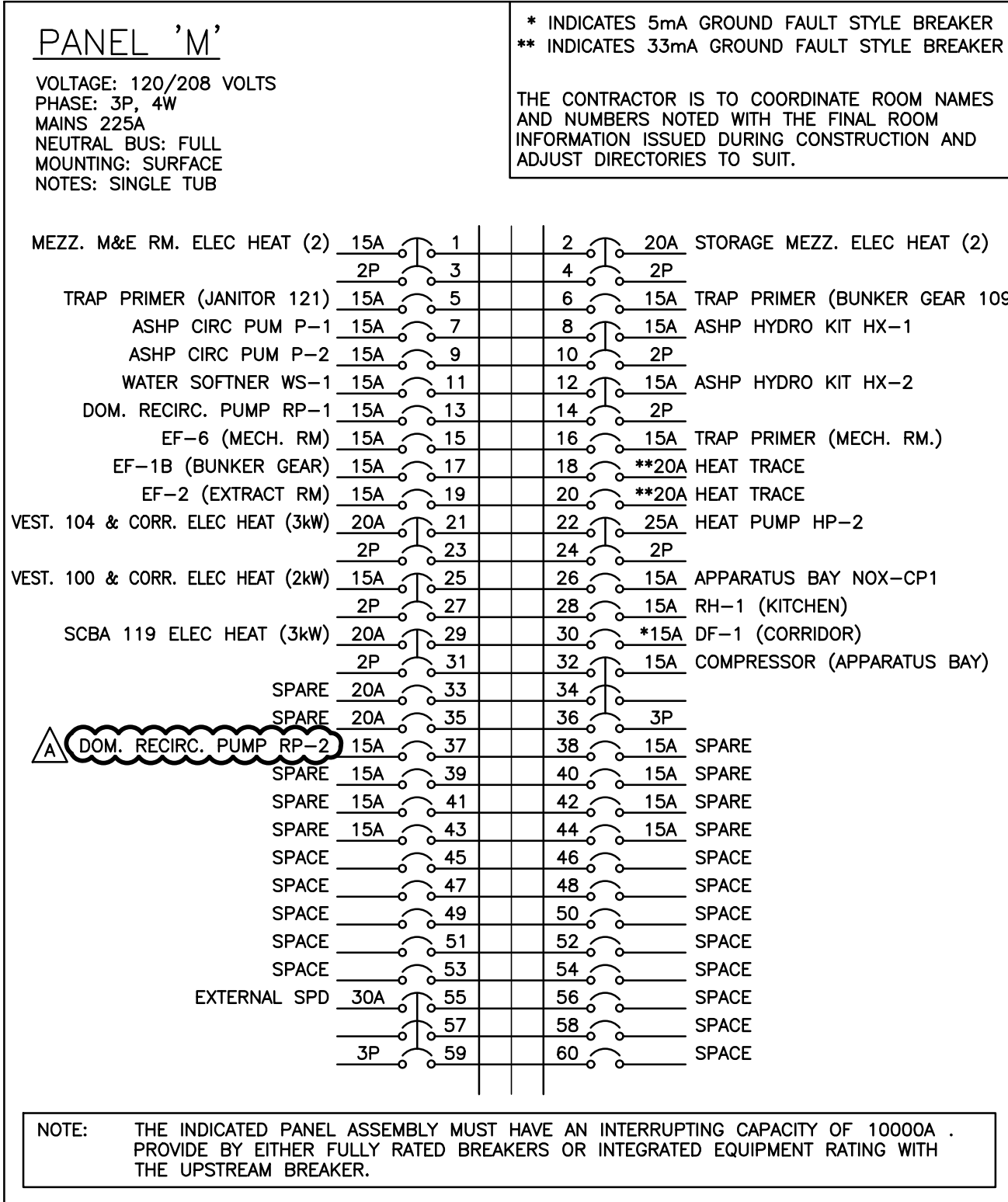
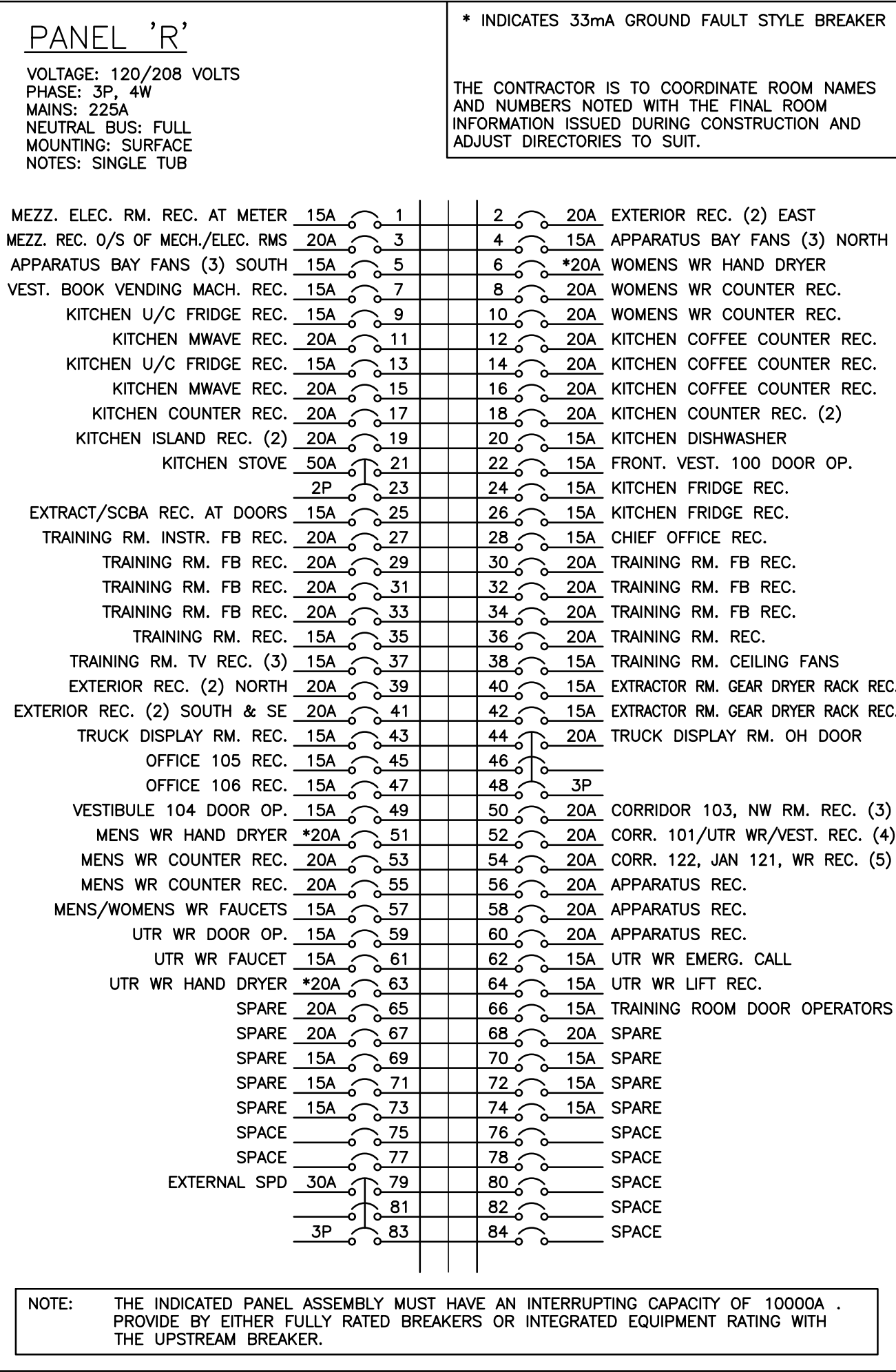
DRAWN: KF

STATUS: TENDER

JOB NO.: 2411

DRAWING NO.:

E301



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PROJECT:

NORTH PARIS
FIRE STATION

21 ANN WILSON WAY
(SCOTT AVE)



COUNTY PROJECT NO.:

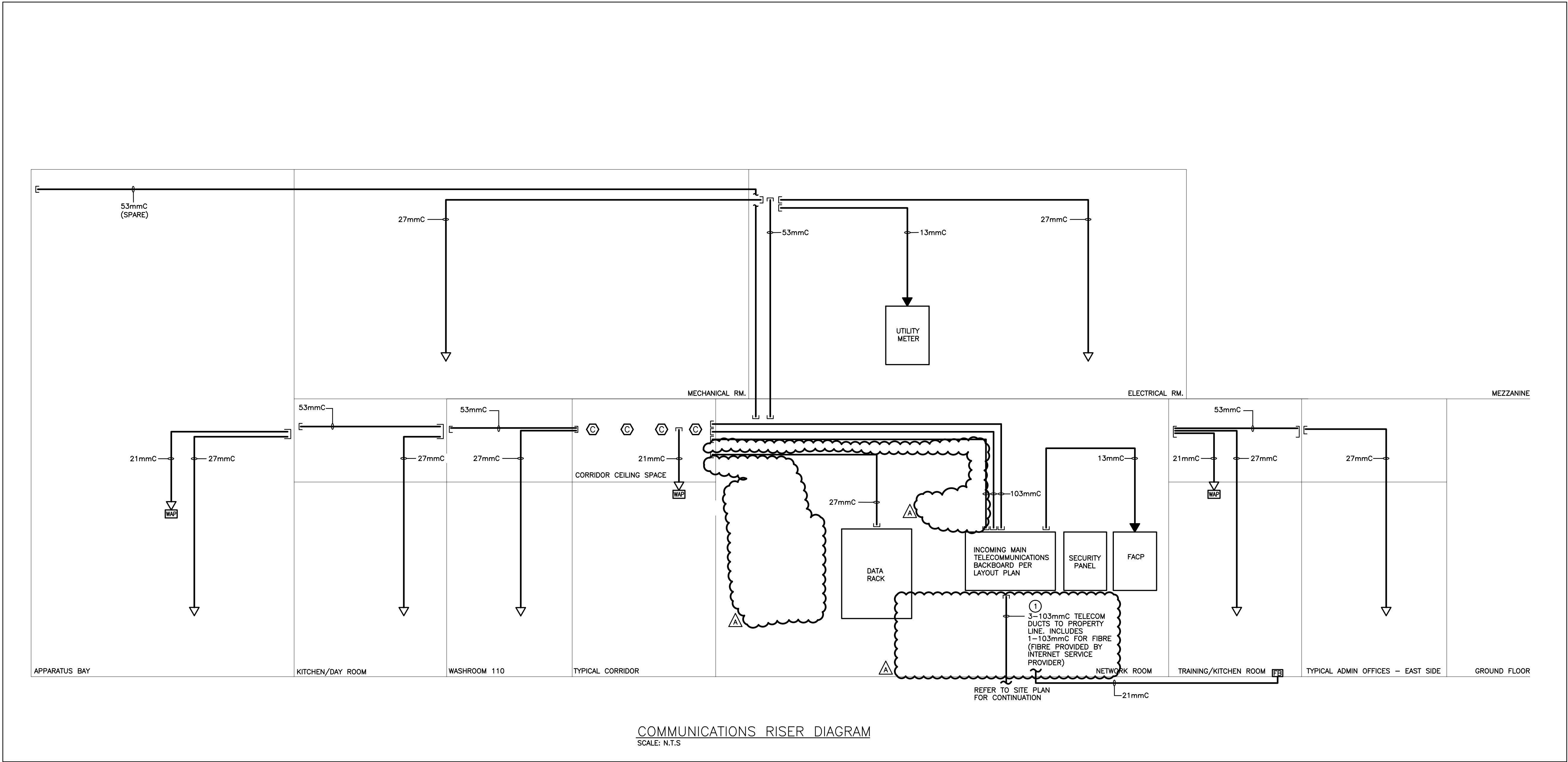
CPS-RFT-25-03

DRAWING TITLE:

PANEL SCHEDULES

DATE:	2025.07.09	DRAWING NO.:	
SCALE:	As Noted		
DRAWN:	KF		
STATUS:	TENDER		
JOB NO.:	2411		

E402



COMMUNICATIONS RISER DIAGRAM
SCALE: N.T.S

SPECIFIC NOTES:

1. INDICATES INCOMING COMMUNICATION DUCTS FROM PROPERTY LINE. CONTRACTOR SHALL CONFIRM WHETHER THESE DUCTS BYPASS THE ELECTRICAL ROOM OR TERMINATE AT THE INCOMING TELECOM BACKBOARD PRIOR TO COMMENCEMENT OF WORK.

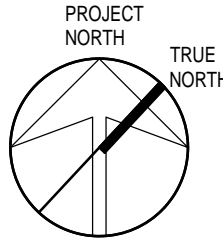
GENERAL NOTES

- RISER IS DIAGRAMMATIC ONLY. ALL CONDUITS, CABLE MANAGEMENT, COMMUNICATION DEVICES, POWER & GROUNDING TO BE PROVIDED BY ELECTRICAL CONTRACTOR.
- REFER TO FLOOR PLANS FOR EXACT LOCATION AND QUANTITY OF DEVICES AND CONDUITS.
- ALL STRUCTURED CABLING TO BE INSTALLED IN CABLE MANAGEMENT HANGERS LOCATED IN CORRIDOR ACCESSIBLE CEILING BY COMMUNICATIONS CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONDUIT (MINIMUM SIZE 21mmC) FROM DATA DEVICES TO CABLE MANAGEMENT HANGERS LOCATED IN THE CORRIDOR CEILING SPACE UNLESS NOTED OTHERWISE AND AS DESCRIBED IN THE SPECIFICATION.
- CONTRACTOR TO PROVIDE FIRE STOPPING AT ALL PENETRATIONS THAT PASS THROUGH FIRE SEPARATIONS.
- READ THIS DRAWING IN CONJUNCTION WITH TELECOM SPECIFICATIONS.

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PROJECT:

NORTH PARIS
FIRE STATION

21 ANN WILSON WAY
(SCOTT AVE)

CLIENT:



COUNTY PROJECT NO.:

CPS-RFT-25-03

DRAWING TITLE:

TELECOMMUNICATIONS
RISER DIAGRAM

DATE: 2025.07.09

SCALE: As Noted

DRAWN: KF

STATUS: TENDER

JOB NO.: 2411

DRAWING NO.:

E601