

1	Α	11/13/2024	ISSUED FOR TENDER		KJM
ISSUE No.	REV. No.	DATE (MM/DD/YY)	REASON FOR ISSUE	BY	APP'D BY

ISSUE



CONSULTANT

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NORTH ARROW

MOHAWK COUNCIL OF AKWESASNE 101 TEWESATENI RD. AKWESASNE, QC K6H 0G5

PROJECT:

ST. REGIS SCHOOL HVAC UPGRADES HEAT PUMP PROTECTION ARCHITECTURAL

DESIGNED BY:		CHECKED BY:
V.BOILEAU	J	K.MacDONALD
DRAWN BY:		APPROVED BY:
V.BOILEAU	J	K.MacDONALD
SCALE: As indicated	d	DRAWING No.
DATE:	PROJECT No.	A I.U
10/29/24	11551	SHEET 1 of 1 REVISION: A

# **EQUIPMENT SPECIFICATIONS**

HEAT PUMPS **HP-1**: COLD CLIMATE HEAT PUMP MINIMUM WORKING TEMPERATURE: -13°F MIN. NOMINAL COOLING CAPACITY: 48,000 BTU/H MIN. NOMINAL HEATING CAPACITY: 48,000 BTU/H MINIMUM SEER: 18.6 ELECTRICAL CONNECTION: 230 V/ 1 PH / 60 HZ

MINIMUM CIRCUIT AMPS: 40 A

BASIS OF DESIGN: MITSUBISHI PUMY-P48NKMU4

# INDOOR UNITS **C-1**:

CEILING MOUNTED CASSETTE UNIT MIN. NOMINAL COOLING CAPACITY: 8,000 BTU/H MIN. NOMINAL HEATING CAPACITY: 8,000 BTU/H COMPLETE WITH INDIVIDUAL, PROGRAMMABLE WALL MOUNTED THERMOSTAT

ELECTRICAL CONNECTION: 230 V/ 1 PH / 60 HZ MINIMUM CIRCUIT AMPS: 0.3 A

BASIS OF DESIGN: MITSUBISHI SLZ-KF09NA1

INDOOR UNITS C-2: CEILING MOUNTED CASSETTE UNIT MIN. NOMINAL COOLING CAPACITY: 12,000 BTU/H MIN. NOMINAL HEATING CAPACITY: 12,000 BTU/H COMPLETE WITH INDIVIDUAL. PROGRAMMABLE WALL MOUNTED THERMOSTAT ELECTRICAL CONNECTION: 230 V/ 1 PH / 60 HZ

BASIS OF DESIGN: MITSUBISHI SLZ-KF12NA1

# INDOOR UNITS **C-3**:

MINIMUM CIRCUIT AMPS: 0.3 A

WALL MOUNTED CASSETTE UNIT MIN. NOMINAL COOLING CAPACITY: 6,000 BTU/H MIN. NOMINAL HEATING CAPACITY: 6,000 BTU/H COMPLETE WITH INDIVIDUAL, PROGRAMMABLE WALL MOUNTED THERMOSTAT ELECTRICAL CONNECTION: 230 V/1 PH/60 HZ MINIMUM CIRCUIT AMPS: 1 A

BASIS OF DESIGN: MITSUBISHI MSZ-GL06NA

# INDOOR UNITS **C-4**:

WALL MOUNTED CASSETTE UNIT MIN. NOMINAL COOLING CAPACITY: 12,000 BTU/H MIN. NOMINAL HEATING CAPACITY: 12,000 BTU/H COMPLETE WITH INDIVIDUAL, PROGRAMMABLE

WALL MOUNTED THERMOSTAT ELECTRICAL CONNECTION: 230 V/1 PH/60 HZ MINIMUM CIRCUIT AMPS: 1 A

BASIS OF DESIGN: MITSUBISHI MSZ-GL12NA

#### BRANCH BOX **BB**: 5 PORT BRANCH BOX

ELECTRICAL CONNECTION: 230 V/ 1 PH / 60 HZ RUNNING CURRENT: 0.15 A

BASIS OF DESIGN: MITSUBISHI PAC-MKA53BC

# NOTES

- 1. SIZE LIQUID & GAS LINES ACCORDING TO MANUFACTURER'S
- RECOMMENDATION. 2. EACH LINE SHOWN DENOTES COMBINATION OF LIQUID & GAS PIPE RUNS
- AS WELL AS POWER AND CONTROLS TO EACH EVAPORATOR HEAD. 3. DRAIN LINES SHALL BE RUN TO EXTERIOR WALL AND DOWN TO 6" ABOVE GROUND. ALL DRAIN LINES SHALL BE COVERED AS TO MAKE GOOD AND TAMPERPROOF. ALL DRAINS FOR ONE SYSTEM SHALL PENETRATE
- BUILDING ENVELOPE IN SAME LOCATION. 4. ALL REFRIGERANT LINES ARE TO BE RUN IN CEILING OR MECHANICAL SPACE AND PENETRATIONS THROUGH FIRE WALLS/CEILINGS ARE TO BE SEALED SO AS TO MAINTAIN THE FIRE RATING.
- CONTRACTOR TO SUPPLY AND INSTALL ALL REQUIRED PIPING, FITTINGS, INSULATION, AND ANY OTHER MATERIALS REQUIRED FOR THE INSTALLATION OF THE EQUIPMENT.

CONTRACTORS FROM EVERY TRADE TO ANCHOR ALL EQUIPMENT SUCH AS ROOF TOP EQUIPMENT, NATURAL GAS PIPING. GEN-SET. VENTILATION UNITS. WATER TANKS. HVAC UNITS. AND WATER PIPING OVER 2" DIA FOR SEISMIC RESTRAINT DESIGNED FOR CORNWALL AREA ZONE. SHOP DRAWINGS OF SUCH EQUIPMENT SHALL INCLUDE SEISMIC DESIGN DETAILS CERTIFIED BY CONTRACTOR'S PROFESSIONAL ENGINEER.

- 6. CONTRACTOR TO PERFORM PROPER STARTUP AND COMMISSIONING AND SUPPLY A REPORT TO THE ENGINEER AND OWNER.
- 7. CONTROLS TO BE ADAPTABLE FOR BAS COMMUNICATION SO THE UNITS CAN WORK WITH FUTURE HVAC UPGRADES.
- 8. RESPECT MINIMUM CLEARANCES DICTATED BY MANUFACTURER WHEN INSTALLING EQUIPMENT.
- 9. SUPPLY & INSTALL RUBBER ISOLATION PADS BETWEEN MOUNTING
- BRACKETS AND UNITS 10. SUPPLY & INSTALL ALL REQUIRED BRACKETS FOR WALL MOUNTING OF ALL
- 11. BRANCH BOXES SHALL BE MOUNTED ABOVE DROP CEILING IN CONDITIONED SPACE LOCAL TO CASSETTE UNIT(S) IN ACCORDANCE WITH MANUFACTURER'S DIRECTION.
- 12. COORDINATE ALL REFRIGERANT PIPING LENGTHS WITH MANUFACTURER OF HEAT PUMP & CASSETTE EQUIPMENT.
- 13. WALL-MOUNTED THERMOSTATS TO BE INSTALLED WHERE INDICATED. THERMOSTATS SHALL CONTROL THE CASSETTES/HEAD UNITS AS INDICATED ON THE DRAWING. THERMOSTATS SHALL BE CAPABLE OF COMMUNICATING WITH A BAS. THERMOSTATS SHALL BE OF THE 7 DAY PROGRAMMABLE TYPE. AND C/W OPAQUE METAL TAMPER PROOF COVER (NON-OPENABLE) MOUNTED DIRECTLY TO WALL OVER THERMOSTAT WITH TAMPERPROOF SCREWS.
- 14. MECHANICAL CONTRACTOR MUST CARRY COST ASSOCIATED WITH SUBCONTRACTOR'S BUILDING AND FINISHING OF DORMERS TO MATCH EXISTING ROOF WHERE INDICATED.

#### SEQUENCE OF OPERATION

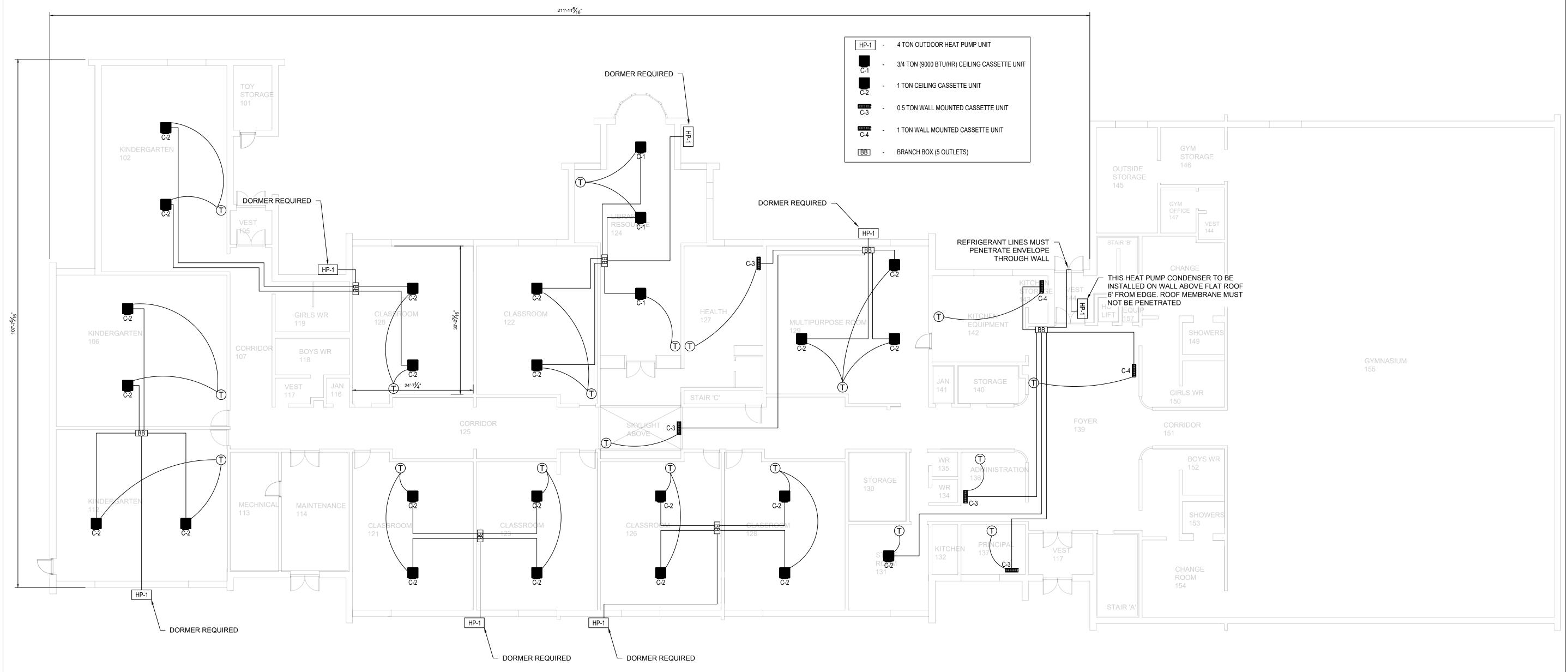
#### IN COOLING MODE:

EACH THERMOSTAT SHALL CONTROL IT'S RESPECTIVE EVAPORATOR(S) & THE RESPECTIVE CONDENSER WILL MODULATE ACCORDING TO ITS EVAPORATORS' REQUIREMENTS.

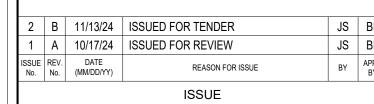
## IN HEATING MODE:

EACH NEW THERMOSTAT SHALL CONTROL IT'S RESPECTIVE EVAPORATOR(S) & THE RESPECTIVE CONDENSER WILL MODULATE ACCORDING TO ITS EVAPORATORS' REQUIREMENTS. (SET NEW THERMOSTATS' HEATING SETPOINT TO 22°C)

WHEN THE OUTDOOR AIR TEMPERATURE IS BELOW THE CUTOFF FOR THE HEAT PUMP (SET TO -15°C, MUST BE ADJUSTABLE), THE HEAT PUMP SHALL BE AUTOMATICALLY DEACTIVATED AND THE EXISTING PERIMETER BASEBOARDS SHALL BE RESPONSIBLE FOR HEATING THE SPACE (SET ALL EXISTING THERMOSTATS' HEATING SETPOINT TO 20°C)



GROUND FLOOR HEAT PUMP & HEAD UNIT PROPOSED LAYOUT SCALE:  $\frac{3}{32}$ " = 1'-0"



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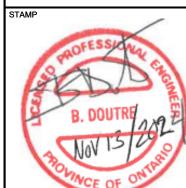
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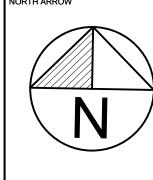
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MOHAWK COUNCIL OF AKWESASNE 101 TEWESATENI RD. AKWESASNE, ON K6H 0G5

ST. REGIS SCHOOL **HVAC UPGRADES** HVAC LAYOUT AND DETAILS

B. DOUTRE 09/17/2024 J. STICKNEY B. DOUTRE AS SHOWN

# **ELECTRICAL SPECIFICATIONS:**

#### 1. GENERAL

ALL INSTALLATIONS SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND BY-LAWS AND BE INSTALLED BY WORKERS LICENSED IN THAT PARTICULAR PORTION OF THE CONTRACT.

ANY CONFLICTS, DISCREPANCIES OR QUESTIONS THAT ARISE IN RELATION TO THE DESIGN DOCUMENTS DURING ANY PHASE OF CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. IF THIS PROCEDURE IS NOT FOLLOWED, REROUTING AND MODIFICATIONS AS RE REQUIRED TO COMPLETE THE WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

2. GENERAL CONTRACTOR AND SUB CONTRACTORS ARE TO BE BILINGUAL SO AS TO COMMUNICATE WITH THE ENGINEER.

#### 3. SITE EXAMINATION

EXAMINE SITE AND LOCAL CONDITIONS AFFECTING WORK UNDER THIS DIVISION TO ENSURE THAT WORK UNDER THIS DIVISION CAN BE SATISFACTORILY CARRIED OUT WITHOUT CHANGES TO DRAWINGS, NO ALLOWANCES WILL BE MADE LATER FOR ANY EXPENSES INCURRED THROUGH FAILURE TO MAKE THIS EXAMINATION. START OF WORK WILL BE DEEMED EVIDENCE OF ACCEPTANCE OF, AND SATISFACTION WITH, EXISTING CONDITIONS.

# 4. GUARANTEE

GUARANTEE ALL WORK FOR TWELVE (12) MONTHS FROM DATE OF ACCEPTANCE.

# 5. PROTECTION

ENSURE THAT ALL PRECAUTIONS ARE TAKEN TO PROTECT ALL PERSONNEL FROM HAZARDS DURING WORK, PROTECT ALL EQUIPMENT FROM DAMAGE FROM ANY CAUSE.

# 6. SCOPE OF WORK

PERFORM ALL WORK AS SHOWN ON DRAWING AND AS COVERED IN THESE SPECIFICATIONS FOLLOW MANUFACTURERS INSTRUCTIONS REGARDING HANDLING, INSTALLING AND TESTING OF EQUIPMENT SPECIFIED HEREIN.

# 7. MATERIALS

USE ONLY NEW MATERIALS, FULLY CERTIFIED (CSA AND ULC APPROVED) FOR USE AS INSTALLED, AND TO MEET THIS SPECIFICATION IN ALL RESPECTS.

# . CLEAN UP

DURING THE COURSE OF CONSTRUCTION AND UPON COMPLETION, REMOVE ALL RUBBISH AND WASTE RESULTING FROM THIS WORK, TO THE SATISFACTION OF THE ENGINEER, CHECK, CLEAN AND REPAINT WHERE NECESSARY, ALL ELECTRICAL EQUIPMENT, AND LEAVE IT IN THE FIRST CLASS CONDITION.

#### 9. GROUNDING

PROVIDE GROUNDING AND BONDING OF ALL EQUIPMENT WITH

APPROVED FITTINGS AND CONDUCTORS OF AMPLE CAPACITY IN ACCORDANCE WITH THE ONTARIO ELECTRICAL SAFETY CODE, ALL CONDUCTORS SHALL HAVE GREEN INSULATION OR BE COLOUR CODED WITH PERMANENTLY ATTACHED GREEN TAPE 21MM [3/4"] WIDE AT EACH END, PROVIDE INSULATED GROUND/BONDING CONDUCTOR IN EACH CONDUIT.

#### 10. WIRING

WIRING TO BE COPPER CONDUCTORS, NO. 12 AWG MINIMUM OR AS INDICATED, CROSS-LINKED POLYETHYLENE INSULATION RW90 EXCEPT AS FOLLOWS: - NO. 14 AWG FOR CONTROL CIRCUITS FOR MECHANICAL EQUIPMENT. -TYPE RWU 90 FOR UNDERGROUND WIRING.

# 11. DISCONNECT SWITCH

PROVIDE IP66 WEATHERPROOF DISCONNECT SWITCH SUITABLE FOR EXTERNAL USE. THE ENCLOSURE SHALL BE MADE OF STAINLESS STEEL OR POLYCARBONATE. THE DISCONNECT SWITCH MUST BE CAPABLE OF OPERATING WITHIN A WIDE AMBIENT TEMPERATURE RANGE AND INCLUDE THE FOLLOWING FEATURES:

- LOCKABLE HANDLE FOR ENHANCED SAFETY.
- CLEAR ON/OFF POSITION INDICATION
- BREATHER DRAIN TO MITIGATE CONDENSATION BUILDUP WITHIN THE ENCLOSURE.

PROVIDE IP20 STANDARD DISCONNECT SWITCH FOR INTERNAL USE. THE ENCLOSURE SHALL BE CONSTRUCTED FROM POWDER-COATED STEEL OR THERMOPLASTIC. THE DISCONNECT SWITCH MUST INCLUDE:

- LOCKABLE HANDLE FOR SAFETY AND UNAUTHORIZED ACCESS PREVENTION.
- CLEARLY LABELED TERMINALS TO FACILITATE INSTALLATION.
- COMPLIANCE WITH APPLICABLE STANDARDS (E.G., CSA, UL).

#### 12. LABELING

FOR ALL NEW, RELOCATED AND EXISTING-TO-REMAIN ELECTRICAL DEVICES WITHIN THE CONTRACT AREA, PROVIDE CLEAR "P-TOUCH" LABELS INDICATING CIRCUIT AND PANEL AT ALL EQUIPMENT, DEVICES, RECEPTACLES AND JUNCTION BOXES. FOR DEDICATED RECEPTACLE, INCLUDE THE WORD "DED" C/W CIRCUIT NUMBER. EXIT LIGHTS, PROVIDE IBLACK] LETTERING ON [RED] BACKGROUND.

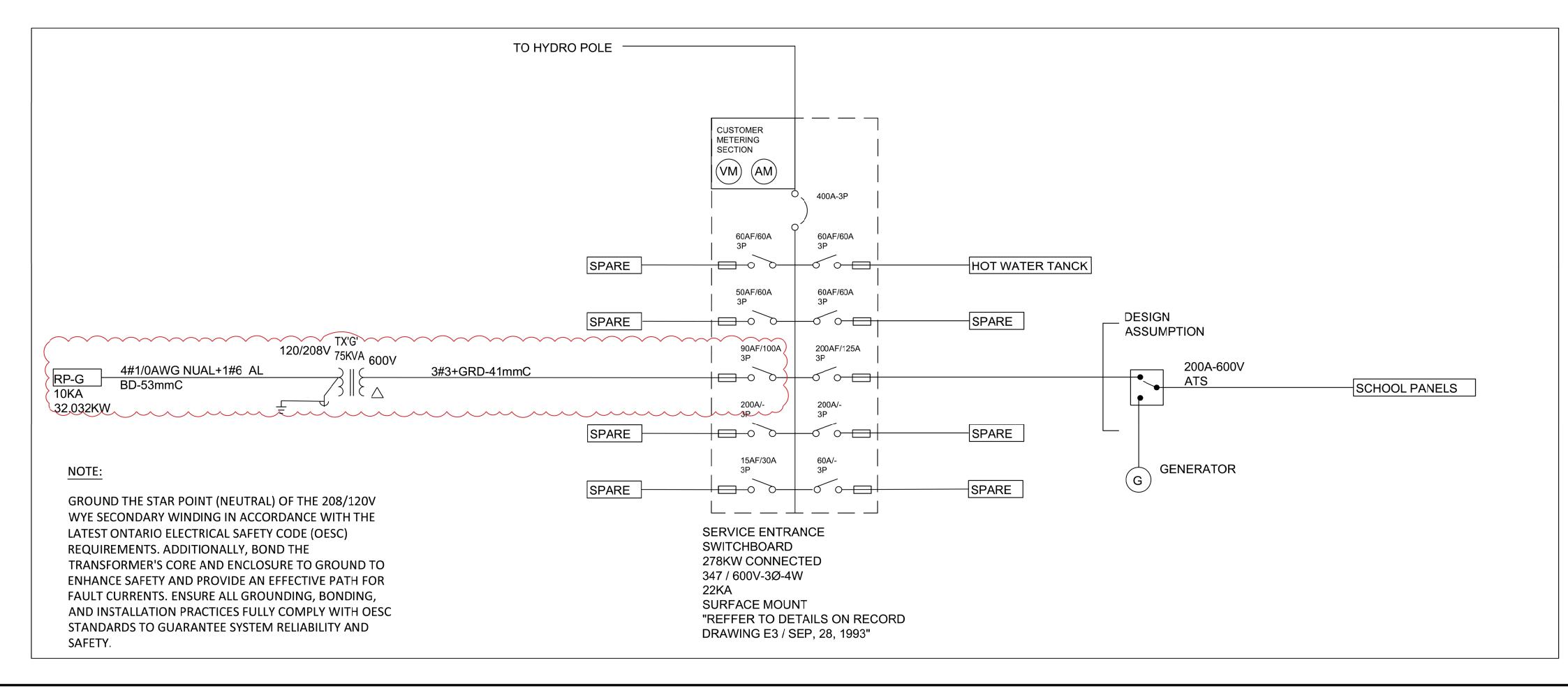
PROVIDE LAMICOID LABELS ON DISCONNECT SWITCHES, MOTOR STARTERS, TRANSFORMERS AND PANELS. CLEARLY INDICATE EQUIPMENT CONTROLLED OR AREA SERVICES AS WELL AS FEEDER SOURCE. INDICATE FUSE SIZE AND TYPE ON DISCONNECT SWITCHES. LETTERING TO BE BLACK ON WHITE BACKGROUND.

#### **CONTRACT DRAWING NOTES:**

- 1. CONTRACT DRAWINGS FOR ELECTRICAL WORK ARE IN PART DIAGRAMMATIC ONLY, THE ELECTRICAL DRAWINGS ARE INTENDED TO CONVEY THE PROPOSED SCOPE OF WORK, THE CONTRACTOR IS RESPONSIBLE TO COORDINATE THE LAYOUT OF ELECTRICAL SYSTEMS WITH ALL TRADES, CONTRACTOR IS TO PROVIDE AT NO ADDITIONAL COST ALL JUNCTION BOXES, PULL BOXES, SUPPORTS AND FITTINGS AS REQUIRED TO COMPLETE THE WORK TO THE REQUIREMENTS SET OUT IN THE ONTARIO ELECTRICAL CODE. THERE WILL BE NO EXTRA PAYMENTS CONSIDERED FROM FAILURE TO COMPLETE THIS COORDINATION.
- 2. EMPHASIZE COORDINATION AND COMMUNICATION BETWEEN THE MECHANICAL AND THE ELECTRICAL CONTRACTOR THROUGHOUT THE DURATION OF THE PROJECT. IT IS ESSENTIAL TO ESTABLISH AND ENSURE SEAMLESS COLLABORATION TO AVOID ANY DELAYS, CONFLICTS, OR REWORK THAT MAY ARISE DUE TO INADEQUATE COORDINATION.

#### **GENERAL DEMO NOTE:**

CONTRACTORS SHALL NOTE THAT THIS CONTRACT IS AN ALTERATION TO AN EXISTING BUILDING AND SHALL THOROUGHLY INVESTIGATE THE EXISTING ELECTRICAL INSTALLATION AND CONDITIONS. CONTRACTORS ARE REQUIRED TO VISIT THE SITE AND ENSURE THAT ALL WORK ASSOCIATED WITH THE ELECTRICAL INSTALLATION REQUIRED TO BE REMOVED OR RELOCATED IS ALLOWED FOR IN THE TENDER PRICE. ALSO CONTRACTORS SHALL ENSURE THAT THE WORK CAN BE CARRIED OUT AS INDICATED ON THE DRAWINGS OR SHALL ADVISE THE ENGINEER IMMEDIATELY OF ANY ANTICIPATED PROBLEMS. CONTRACTOR SHALL ALLOCATE 2 HOURS TO COMPLETE THE SITE INSPECTION.



	DRAWING LIST				
DRAWING NO.	TITLE				
E1.0	ELECTRICAL SINGLE LINE DIAGRAM AND SPECIFICATION				
E2.0	ELECTRICAL LAYOUT AND DETAILS				

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# **CONTRACT DRAWINGS**

2 B 11/13/24 ISSUED FOR TENDER A 10/17/24 ISSUED FOR REVIEW MH S ISSUE REV. DATE (MM/DD/YY) REASON FOR ISSUE ISSUE ONSULTANT HSP Inc. 5715 Warner Drive Long Sault, ON **Engineering** Canada K0C 1P0 T: 613-932-3289 F: 613-937-0125 HIS DRAWING, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE PROPERTY OF HSP INC. AND MUST RETURNED UPON REQUEST. UNAUTHORIZED USE OF THIS DRAWING. DISCLOSURE OF TECHNICAL INFORMAT CONTAINED THEREIN, OR REPRODUCTION EITHER IN WHOLE OR IN PART FOR USE BY ALL THIRD PARTIES, FORBIDDEN UNLESS WITH PRIOR WRITTEN PERMISSION OF ALL HSP INC. ALL SUCH AUTHOR: REPRODUCTIONS SHOULD BEAR THIS NOTICE

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DATE REV. (MM/DD/YY) No.

S. R. BRISCOE 100219940
11551
13 NOVEMBER 2024

MOHAWK COUNCIL OF AKWESASNE 101 TEWESATENI RD. AKWESASNE, ON K6H 0G5

ST. REGIS SCHOOL
HVAC UPGRADES
ELECTRICAL SINGLE LINE DIAGRAM
AND SPECIFICATION

M.HAMADA

MN BY:

M.HAMADA

CHECKED BY:

S.BRISCOE

DRAWING No.

PROJECT No.

11551

SHEET 1 of 2 REVISION:

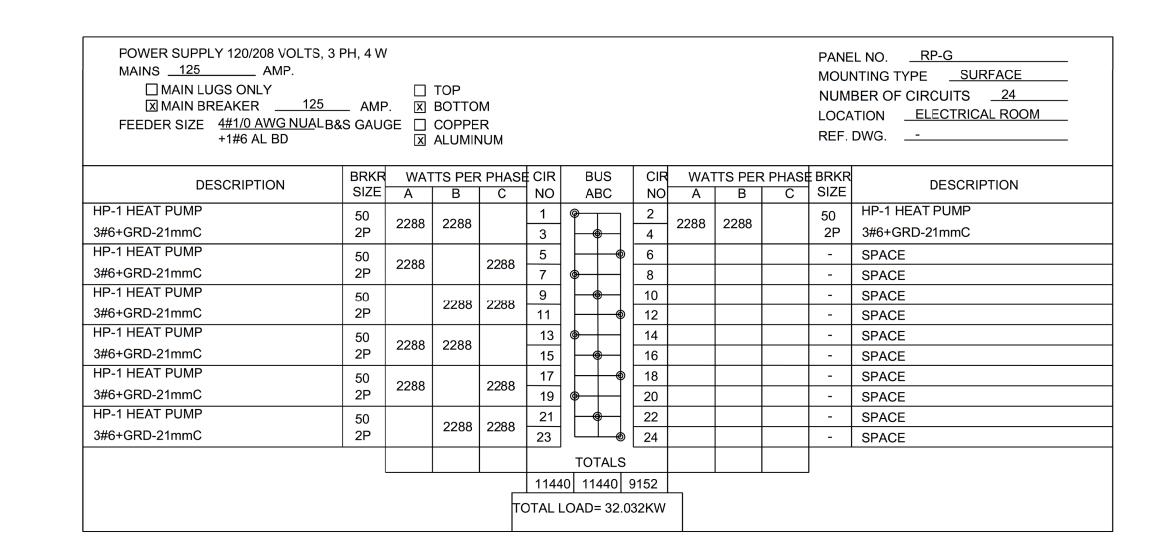
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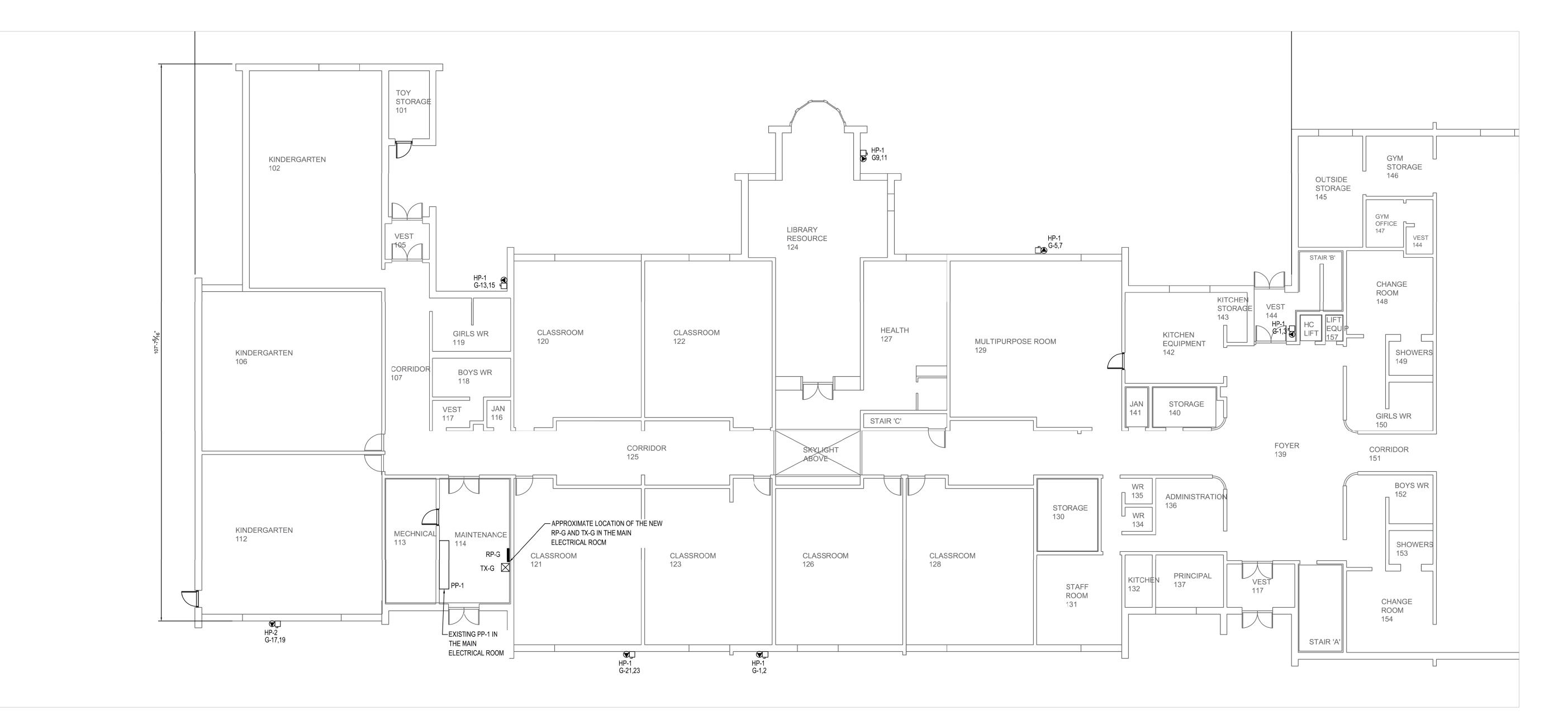
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# **ELECTRICAL PANEL COMMENT:**

THE PANEL AND BREAKER SIZES HAVE BEEN DESIGNED TO ACCOMMODATE THE HP-1 MITSUBISHI PUMY-P48NKMU4 UNIT. IF THE CONTRACTOR CHOOSES TO INSTALL DIFFERENT EQUIPMENT, THEY ARE RESPONSIBLE FOR RECALCULATING THE PANEL SIZE AND ADJUSTING OTHER ELECTRICAL COMPONENTS TO ENSURE PROPER SIZING AND FULL COMPLIANCE WITH APPLICABLE ELECTRICAL

**NOTE:**THE CASSETTE UNITS ARE POWERED DIRECTLY FROM THE OUTDOOR UNITS. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND WIRING OF THE CASSETTE UNITS (TYPICAL).





GROUND FLOOR ELECTRICAL LAYOUT

SCALE:  $\frac{3}{32}$ " = 1'-0"

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**HVAC UPGRADES** 

ELECTRICAL LAYOUT AND DETAILS

11551

M.HAMADA

M.HAMADA

AS SHOWN

09/05/2024

S.BRISCOE

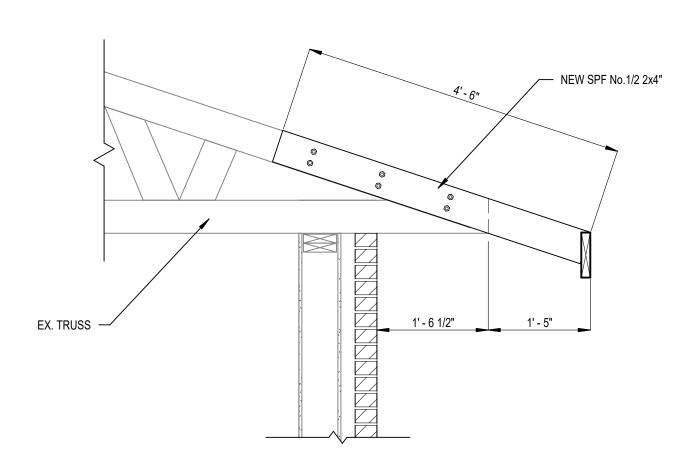
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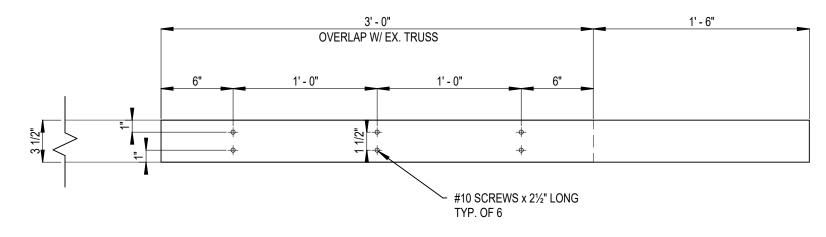
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11/13/2024 8:27 AM



1 SECTION A-A



2 BOLTING DETAIL \$1.0 1.1/2" = 1'-0"

#### **GENERAL NOTES**

- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, STANDARDS, REGULATIONS AND LAWS
- 2. REFERENCED STANDARDS REFER TO THE LATEST EDITION IN FORCE AT THE TIME THAT WORK COMMENCES.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SAFETY AND CONSTRUCTION PROCEDURE.
   THE CONTRACTOR SHALL COORDINATE WORK WITH THE OWNER TO MINIMIZE DISRUPTION TO THE
- OWNER'S OPERATIONS.
- THE CONTRACTOR SHALL MAKE NO DEVIATION FROM THE DOCUMENTS WITHOUT WRITTEN DIRECTION FROM THE ENGINEER.
- THE CONTRACTOR SHALL PROTECT EXISTING FACILITIES, STRUCTURE AND UTILITIES FROM DAMAGE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN UP ON A DAILY BASIS.

#### WOOD NOTES

ALL WOOD ROOF JOISTS ARE TO BE A MINIMUM OF 2x4", GRADE 2 LUMBER.

THE UNDERSIDE OF THE JOISTS, EXPOSED TO THE WEATHER, SHALL HAVE A LAYER OF 1/2" PRESSURE-TREATED PLYWOOD SCREWED TO THE UNDERSIDE AND COVERED WITH METAL FLASHING.

#### CONNECTION NOTES

- 1. NEW JOISTS ARE TO BE SCREWED TO THE EXISTING TOP CHORD OF TRUSSES, AS SHOWN ON THE DRAWING AND ARE TO MATCH ROOF SLOPE.
- 2. MINIMUM CLEARANCES, AS NOTED, ARE TO BE ADHERED TO.

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MOHAWK COUNCIL OF AKWESASNE 101 TEWESATENI RD. AKWESASNE, QC K6H 0G5

PROJECT:

ST. REGIS SCHOOL HVAC UPGRADES HEAT PUMP PROTECTION STRUCTURAL

DESIGNED BY:		CHECKED BY:	
V.BOILEAU	J	K.MacDONALD	
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V.BOILEAU	J	K.MacDONALD	
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10/29/24	11551	SHEET 1 of 1 REVISION: A	

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