\_,,---- POLE-MOUNT UTILITY

**EJ**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ELECTRICAL PANEL** , **A,** | | | | | | | | | | | | | | | | | | | |
| CCT.  No. | CIRCUIT USE | | BREAKER | | VOLTS |  | | | WIRE AND  CONDUIT SIZE |  | CCT.  No. | CIRCUIT USE | BREAKER | | VOLTS |  | | | WIRE AND  CONDUIT SIZE |
| SIZE | POLES | " |  |  | SIZE | POLES | " |  | C, |
|  | WASHER/DRYER RECEPTACLE - ROOM 130 | | 30A | 2 | 208 | 2500 |  |  | 3c#10 AWG | 2 | RANGE RECEPTACLE - ROOM 101S | 40A | 2 | 208 | 4000 |  |  | 3c#8 AWG |
| 3 |  | 2500 |  | 4 |  | 4000 |  |
| 5 | WASHER/DRYER RECEPTACLE - ROOM 1035 | | 30A | 2 | 208 |  |  | 2500 | 3c#10 AWG | 6 | RANGEHOOD - ROOM 101S |  |  | 120 |  |  | 250 | 2c#12 AWG |
| 7 | 2500 |  |  | 8 | DISHWASHER - ROOM 1015 |  |  | 120 | 500 |  |  | 2c#12 AWG |
| 9 | PANEL 'B' & PANEL 'C' | | 125A | 3 | 208 |  |  |  | AS NOTED | 10 | @) CONDENSING UNIT CU-1 | 30A | 2 | 208 |  | 1800 |  | AS NOTED |
| 11 |  |  |  | 12 |  |  | 1800 |
| " |  | |  |  |  |  |  |  |  | 14 | (cu-2) CONDENSING UNIT CU-2 | 30A | 2 | 208 | 1800 |  |  | AS NOTED |
| 15 |  | |  |  |  |  |  |  |  | 16 |  | 1800 |  |
| 17 | GENERATOR SET PANEL | | 30A | 3 | 208 |  |  |  | AS NOTED | 18 | (CU-3) CONDENSING UNIT CU-3 | 30A | 2 | 208 |  |  | 1800 | AS NOTED |
| 19 |  |  |  | 20 | 1800 |  |  |
| 21 |  | |  |  |  |  |  |  |  | 22 | (Ef-12) DRYER EXHAUST FAN EF-12 | 15A |  | 120 |  |  | 1440 | AS NOTED |
| 23 |  | |  |  |  |  |  |  |  | 24 |  |  |  |  |  |  |  |  |
| 25 |  | |  |  |  |  |  |  |  | 26 |  |  |  |  |  |  |  |  |
| 27 |  | |  |  |  |  |  |  |  | 28 |  |  |  |  |  |  |  |  |
| 29 |  | |  |  |  |  |  |  |  | 30 |  |  |  |  |  |  |  |  |
| 31 |  | |  |  |  |  |  |  |  | 32 |  |  |  |  |  |  |  |  |
| 33 |  | |  |  |  |  |  |  |  | 34 |  |  |  |  |  |  |  |  |
| 35 |  | |  |  |  |  |  |  |  | 36 |  |  |  |  |  |  |  |  |
| 37 |  | |  |  |  |  |  |  |  | 38 |  |  |  |  |  |  |  |  |
| 39 |  | |  |  |  |  |  |  |  | 40 |  |  |  |  |  |  |  |  |
| 41 |  | |  |  |  |  |  |  |  | 42 |  |  |  |  |  |  |  |  |
| VOLTAGE: 120/208VAC MAIN BREAKER: 200A MOUNTING: SURFACE | | MAINS: 200A BREAKER I.C.: 10KA | |  | PHASE: 3  WIRE: 4  FEEDER */>S* INDICATED | | |  | FED FROM: AS INDICATED LOCATION: AS SHOWN | | |  |  |  |  |  |  |  |  |

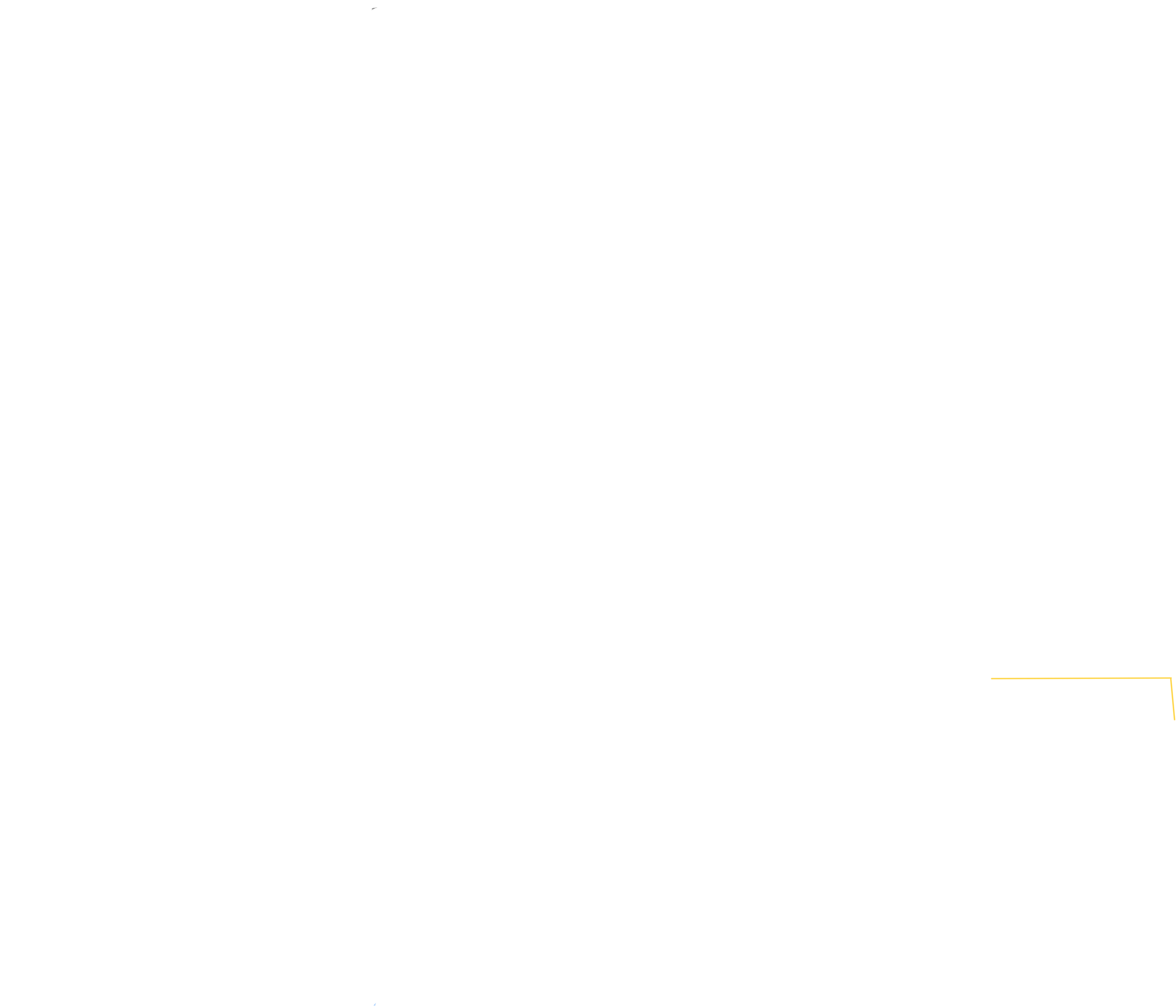
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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MECHANICAL EQUIPMENT SCHEDULE** | | | | | | | | | | | |
| No. | DESCRIPTION | ROOM# | VOLTAGE & PHASE | | BRANCH WIRING | | BREAKER SIZE | CIRCUIT NUMBER | TOTAL VA | | REMARKS |
|  | AIR HANDLING UNIT AHU-1 | 118 | 120V, | 10 | 2c#12 | AWG | 1P-15A | B-23 | 840 | VA | DISCONNECT REQUIRED |
|  | AIR HANDLING UNIT AHU-2 | **118** | 120V, | 10 | 2c#12 | AWG | 1P-15A | B-25 | 840 | VA | DISCONNECT REQUIRED |
|  | AIR HANDLING UNIT AHU-3 | 115S | 120V, | 10 | 2c#12 | AWG | 1P-15A | B-27 | 840 | VA | DISCONNECT REQUIRED |
|  | BOILER B-1 | 118 | 120V, | 10 | 2c#12 | AWG | 1P-15A | B-18 | 1440 | VA | DISCONNECT REQUIRED |
|  | BOILER 8-2 | 118 | 120V, | 10 | 2c#12 | AWG | 1P-15A | B-20 | 1440 | VA | OISCONNECT REQUIREO |
|  | BOILER 8-3 | 118 | 120V, | 10 | 2c#12 | AWG | 1P-15A | B-22 | 1440 | VA | DISCONNECT REQUIRED |
|  | BOILER 8-4 | **118** | 120V, | 10 | 2c#12 | AWG | 1P-15A | B-24 | 1440 | VA | DISCONNECT REQUIRED |
|  | FUEL PUMP FP-1 | **118** | 120V, | 10 | 2c#12 | AWG | 1P-15A | B-26 | 150VA EACH | | DISCONNECTS REQUIRED |
|  | FUEL PUMP FP-2 | **118** |
|  | FUEL PUMP FP-3 | **118** |
|  | FUEL PUMP FP-4 | 118 |
|  | HEAT RECOVERY VENTILATOR HRV-1 | 118 | 120V, | 10 | 2c#12 | AWG | 1P-15A | B-28 | 460 | VA | DISCONNECT REQUIRED |
|  | HEAT RECOVERY VENTILATOR HRV-2 | 115S | 120V, | 10 | 2c#12 | AWG | 1P-15A | B-34 | 250 | VA | RECEPTACLE REQUIRED |
|  | EXHAUST FAN EF-1 | 117 | 120V, | 10 | 2c#12 | AWG | 1P-15A | B-30 | 700 | VA | DISCONNECT REQUIRED |
|  | EXHAUST FAN EF-2 | 114 | 120V, | 10 | 2c#12 | AWG | 1P-15A | C-4 | 135 | VA | CONNECT TO TIMER SWITCH |
|  | EXHAUST FAN EF-3 | 113 | 120V, | 10 | 2c#12 | AWG | 1P-15A | C-22 | 160 | VA | CONNECT TO TIMER SWITCH |
|  | EXHAUST FAN EF-4 | 101 | 120V, | 10 | 2c#12 | AWG | 1P-15A | C-22 | 135 | VA | CONNECT TO TIMER SWITCH |
|  | EXHAUST FAN EF-5 | 133 | 120V, | 10 | 2c#12 | AWG | 1P-15A | C-22 | 135 | VA | CONNECT TO TIMER SWITCH |
|  | EXHAUST FAN EF-6 | 106S | 120V, | 10 | 2c#12 | AWG | 1P-15A | B-12 | 135 | VA | CONNECT TO TIMER SWITCH |
|  | EXHAUST FAN EF-7 | 108S | 120V, | 10 | 2c#12 | AWG | 1P-15A | B-12 | 135 | VA | CONNECT TO TIMER SWITCH |
|  | EXHAUST FAN EF-8 | 108 | 120V, | 10 | 2c#12 | AWG | 1P-15A | B-36 | 135 | VA | CONNECT TO TIMER SWITCH |
|  | EXHAUST FAN EF-9 | 110 | 120V, | 10 | 2c#12 | AWG | 1P-15A | B-40 | 135 | VA | CONNECT TO TIMER SWITCH |
|  | RADON EXHAUST FAN EF-10 | 110 | 120V, | 10 | 2c#12 | AWG | 1P-15A | B-40 | 200 | VA | CONNECT TO TOGGLE SWITCH |
|  | EXHAUST FAN EF-11 | 111 | 120V, | 10 | 2c#12 | AWG | 1P-15A | C-41 | 200 | VA | TIE INTO REVERSE ACTING THERMOSTAT BY MECH |
|  | DRYER EXHAUST FAN EF-12 | 103S | 120V, | 10 | 2c#12 | AWG | 1P-15A | A-22 | 200 | VA | INTERLOCK TO RUN WHEN DRYER IS OPERATIONAL |
|  | CONDENSING UNIT CU-1 | OUTSIDE | 208V, | 10 | 2c#10 | AWG | 2P-30A | A-10/12 | 3600 | VA | DISCONNECT REQUIRED |
|  | CONDENSING UNIT CU-2 | OUTSIDE | 208V, | 10 | 2c#10 | AWG | 2P-30A | A-14/16 | 3600 | VA | DISCONNECT REQUIRED |
|  | CONDENSING UNIT CU-3 | OUTSIDE | 208V, | 10 | 2c#10 | AWG | 2P-30A | A-18/20 | 3600 | VA | DISCONNECT REQUIRED |
|  | PUMP P-1 | 118 | 120V, | 10 | 2c#12 | AWG | 1P-15A | C-24 | 250 | VA | DISCONNECT REQUIRED |
|  | PUMP P-2 | **118** | 250 | VA | DISCONNECT REQUIREO |
|  | PUMP P-3 | **118** | 120V, | 10 | 2c#12 | AWG | 1P-15A | C-26 | 250 | VA | DISCONNECT REQUIRED |
|  | PUMP P-4 | **118** | 250 | VA | DISCONNECT REQUIRED |
|  | PUMP P-5 | **118** | 208V, | 10 | 2c#12 | AWG | 2P-15A | B-29/31 | 850 | VA | DISCONNECT REQUIREO |
|  | PUMP P-6 | **118** | 850 | VA | DISCONNECT REQUIRED |
|  | PUMP P-7 | **118** | 208V, | 10 | 2c#12 | AWG | 2P-15A | B-33/35 | 850 | VA | DISCONNECT REQUIREO |
|  | PUMP P-14 | **118** | 850 | VA | DISCONNECT REQUIRED |
|  | PUMP P-8 | **118** | 120V, | 10 | 2c#12 | AWG | 1P-15A | C-28 | 500 | VA | DISCONNECT REQUIRED |
|  | PUMP P-9 | **118** | 500 | VA | DISCONNECT REQUIRED |
|  | PUMP P-10 | **118** | 208V, | 10 | 2c#12 | AWG | 2P-15A | C-30/32 | 450 | VA | DISCONNECT REQUIRED |
|  | PUMP P-11 | **118** | 450 | VA | OISCONNECT REQUIREO |
|  | PUMP P-12 | **118** | 450 | VA | DISCONNECT REQUIRED |
|  | PUMP P-13 | **118** | 450 | VA | DISCONNECT REQUIRED |
|  | UNIT HEATER UH-1 | 117 | 120V, | 10 | 2c#12 | AWG | 1P-15A | B-32 | 160 | VA | DISCONNECT REQUIRED |
|  | CABINET UNIT HEATER CUH-1 | 100 | 160 | VA | DISCONNECT REQUIRED |
|  | GLYCOL PUMP | 118 | 160 | VA | RECEPTACLE REQUIRED |
|  | SPLIT AIR CONDITIONING UNIT AC-1 | 111/ OUTSIDE | 208V, | 10 | 2c#12 | AWG | 2P-15A | A-22/24 | 1800 | VA | DISCONNECT REQUIRED. FEED INDOOR UNIT FROM OUTOOOR UNIT. PROVIDE MIN 3c#12 FOR POWER & CONTROL WIRING. REFER TO MANUFACTIJRER'S LITERATURE PRIOR TO ROUGH-IN. |

TRANSFORMER

0--4x 250MCM RWU90 ALUMINUM IN 4" DB2 **DUCT.** REFER TO SECONDARY TRENCH **DETAIL.**

200A, 250V, 7-JAW METERBASE

L.:::::J

TO UTILITY STANDARDS

0--4x 250MCM RWU90 ALUMINUM

IN 4" DB2 DUCT.

3P-30A

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3P-125A

6

MAIN PANEL 'A'

200A, 120/208V, 30, 42 **CCT** SERVICE ENTRANCE RATED W/ 200A MAIN BREAKER

l4c#10 AWG RW90 IN **EMT/DB2**

◊

l4c#1/0 AWG

CONTROL WIRING BETWEEN ATS-1 AND GENERATOR SET AS PER MANUFACTURER'S REQUIREMENT

IN 0B2.

---0 ,;

RW90 IN EMT

:-\--- - -e- Q- - - - - - -: !NfEATOR

1. I L4c#1/0 AWG L.---

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ELECTRICAL PANEL** ' **B** ' | | | | | | | | | | | | | | | | | | |
| CCT.  No. | CIRCUIT USE | BREAKER | | VOLTS |  | | | WIRE AND CONDUIT SIZE |  | CCT.  So | CIRCUIT USE | BREAKER | | VOLTS |  | | | WIRE AND CONDUIT SIZE |
| SIZE | POLES | " |  | C, | SIZE | POLES | " |  | C, |
|  | GFI RECEPTACLES - ROOMS 106S, 108S, 116 | 15' |  | 120 | 360 |  |  | 2c#12 AWG | 2 | LIGHTING - ROOMS 106S-114S | 15' |  | 120 | 320 |  |  | 2c#12 AWG |
| 3 | DATA RECEPTACLES - ROOMS 116, 117 | 15' |  | 120 |  | 480 |  | 2c#12 AWG | 4 | LIGHTING - ROOMS 1005-1055 | 15' |  | 120 |  | 430 |  | 2c#12 AWG |
| 5 | RECEPTACLES - ROOM 1095, 111S | 15A |  | 120 |  |  | 480 | 2c#12 AWG | 6 | LIGHTING - ROOM 117 | 15A |  | 120 |  |  | 460 | 2c#12 AWG |
| 7 | RECEPTACLES - ROOM 110S, 113S | 15A |  | 120 | 240 |  |  | 2c#12 AWG | 8 | 20A GFI RECEPTACLE - ROOM 101S | 2°' |  | 120 | 720 |  |  | 2c#12 AWG |
| 9 | RECEPTACLES - ROOM 102S | 15A |  | 120 |  | 460 |  | 2c#12 AWG | 10 | 20A GFI RECEPTACLE - ROOM 101S | 20A |  | 120 |  | 720 |  | 2c#12 AWG |
| 11 | CO DETECTOR - SALLY PORT 117 | 15A |  | 120 |  |  | 500 | 2c#12 AWG | 12 | (EF-6XEF-7) EXHAUST FANS | 15' |  | 120 |  |  | 270 | 2c#12 AWG |
| 13 | RECEPTACLES - SALLY PORT 117 | 15A |  | 120 | 480 |  |  | 2c#12 AWG | 14 | FRIDGE RECEPTACLE - ROOM 1015 | 15A |  | 120 | 500 |  |  | 2c#12 AWG |
| 15 |  | 15A |  | 120 |  | 540 |  | 2c#12 AWG | 16 | FREEZER RECEPTACLE - ROOM 101S | 15A |  | 120 |  | 500 |  | 2c#12 AWG |
|  |
| 17 | RECEPTACLES - RMS 103S, 104S. 107S, 1125, 1155 | 15A |  | 120 |  |  | 600 | 2c:#12 AWG | 18 | BOILER 8-1 | 15A |  | 120 |  |  | 1440 | AS NOTED |
|  |
| 19 | RECEPTACLES - ROOMS 105S | 15A |  | 120 | 540 |  |  | 2c#12 AWG | 20 | BOILER B-2 | 15A |  | 120 | 1440 |  |  | AS NOTED |
| 21 | RECEPTACLES - ROOM 116, 117 | 15A |  | 120 |  |  |  | 2c#12 AWG | 22 | (]TI BOILER 8-3 | 15' |  | 120 |  | 1440 |  | AS NOTED |
|  |
| 23 | <AHU1) AIR HANDLING UNIT AHU-1 | 15A |  | 120 |  |  | 840 | AS NOTED | 24 | BOILER 8-4 | 15A |  | 120 |  |  | 1440 | AS NOTED |
| 25 | (AHU2) AIR HANDLING UNIT AHU-2 | 15A |  | 120 | 840 |  |  | AS NOTED | 26 | ( FP-1 X FP-2 X FP-3X FP-4) FUEL PUMPS | 15A |  | 120 | 600 |  |  | AS NOTED |
| 27 | (AHU3) AIR HANDLING UNIT AHU-3 | 15' |  | 120 |  | 840 |  | AS NOTED | 28 | (HRV1) HEAT RECOVERY VENTILATOR HRV-1 | 15A |  | 120 |  | 480 |  | AS NOTED |
|  |
| 29 | <m(ID PUMP P-5, PUMP P-6 | 15A | 2 | 208 |  |  | 850 | AS NOTED | 30 | EXHAUST FAN EF-1 | 15A |  | 120 |  |  |  | AS NOTED |
| 31 | 850 |  |  | 32 | (UH-1XCUH1XGF-1) HEATERS, PUMP | 15' |  | 120 | 480 |  |  | AS NOTED |
| 33 | @Xill) PUMP P-7, PUMP P-14 | 15A | 2 | 208 |  | 850 |  | AS NOTED | 34 | (HRV2) HEAT RECOVERY VENTILATOR HRV-2 | 15A |  | 120 |  | 250 |  | AS NOTED |
| 35 |  |  | 850 | 36 | (EF-8) EXHAUST FAN EF-8 | 15A |  | 120 |  |  | 200 | AS NOTED |
| 37 | OVERHEAD DOOR MOTOR - SALLY PORT 117 | 20A |  | 120 | 1176 |  |  | 2c#12 AWG | 38 | 20A GFI RECEPTACLES - ROOM 1015 | 20A |  | 120 | 720 |  |  | 2c#12 AWG |
| 39 | OVERHEAD DOOR MOTOR - SALLY PORT 117 | 20A |  | 120 |  | 1176 |  | 2c#12 AWG | 40 | (EF-9XEF-10) EXHAUST FANS EF-9, EF-10 | 15A |  | 120 |  | 600 |  | AS NOTED |
| 41 |  |  |  |  |  |  |  |  | 42 |  |  |  |  |  |  |  |  |
| 43 |  |  |  |  |  |  |  |  | 44 |  |  |  |  |  |  |  |  |
| 45 |  |  |  |  |  |  |  |  | 46 |  |  |  |  |  |  |  |  |
| 47 |  |  |  |  |  |  |  |  | 48 |  |  |  |  |  |  |  |  |
| 49 |  |  |  |  |  |  |  |  | 50 |  |  |  |  |  |  |  |  |
| 51 |  |  |  |  |  |  |  |  | 52 |  |  |  |  |  |  |  |  |
| 53 |  |  |  |  |  |  |  |  | 54 |  |  |  |  |  |  |  |  |
| 55 |  |  |  |  |  |  |  |  | 56 |  |  |  |  |  |  |  |  |
| 57 |  |  |  |  |  |  |  |  | 58 | FIRE ALARM PANEL | 15A |  | 120 |  | 400 |  | 2c#12 AWG |
| 59 |  |  |  |  |  |  |  |  | 60 | EXIT SIGN POWER | 15A |  | 120 |  |  | 200 | 2c#12 AWG |
| VOLTAGE: 120/208VAC MAINS: 200A  MAIN BREAKER: N/A BREAKER I.C.. 10KA MOUNTING: SURFACE | | |  | PHASE: 3  WIRE: 4  FEEDER: */>S* INDICATED | | |  | FED FROM: AS INDICATED LOCATION: AS SHOWN | | |  |  |  |  |  |  |  |  |

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L .,J

TO NON­ ESSENTIAL LOADS

2 30kW/37kVA GENERATOR

H 120/208V,

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| L |  | J | RW90 IN | EMT/DB |
| 0- | L  AUTOMATIC TRANSFER SWITC  (ATS-1). 200A, 250V, 3¢,  --4c#I/O AWG RW90 IN **EMT** | | | |
| 200A, | | | 30 SPLITTER |  |

4 **POLE** 3¢, 4W.

NOTE,

ALL CABLES COPPER UNLESS SPECIFICALLY **INDICATED** OTHERWISE.

SINGLE LINE DIAGRAM

**NOT** TO SCALE

4,#1/0 AWG

RW90 IN EMT

PANEL 'B'

200A, 30,

120/208V,

60 **CCT**

4,#1/0 AWG

RW90 IN EMT

PANEL 'C'

200A, 30,

120/208V,

60 CCT

GENERAL ELECTRICAL SPECIFICATIONS

PUMP /

**HOUS;:1//**

**NEW** UTILITY POLE

NEW BURIED SERVICE FEEDERS. REFER TO SECONDARY TRENCH **DETAIL.**

SUPPLY & INSTALL 4"¢ PVC­ DUCT BETWEEN RADIO TOWER AND GENERAL OFFICE 102. BURY MINIMUM 1m BELOW GRADE.

R O A D

1. INSTALLATION SHALL BE IN ACCORDANCE WITH THE ONTARIO HYDRO ELECTRICAL SAFETY CODE LATEST EDITION & ALL OTHER APPLICABLE CODES & REGULATIONS.
2. ALL EQUIPMENT SHALL BE NEW ANO CSA CERTIFIED.
3. ELECTRICAL CONTRACTOR SHALL SUPPLY EQUIPMENT AS SPECIFIED AS WELL AS ANY MISCELLANEOUS TO COMPLETE THE WORK.
4. IDENTIFY ELECTRICAL EQUIPMENT WITH PROPER NAMEPLATES. IDENTIFY ALL WIRING, MAINTAIN PHASE SEQUENCE & COLOUR CODING.
5. CONTRACTOR TO FURNISH CERTIFICATES OF ACCEPTANCE FROM THE ELECTRICAL INSPECTION DEPARTMENT UPON COMPLETION OF WORK TO THE ENGINEER. VERIFY F/A SYSTEM BY QUALIFIED PERSONNEL. CONDUCT AUDITORY TEST UPON COMPLETION.
6. ALL WIRING SHALL BE MIN. #12 AWG Cu. RW90 IN EMT OR AC90 (UNLESS OTHERWISE NOTED). RESIDENTIAL TYPE WIRING (NMD90) WILL NOT BE ACCEPTED.
7. INSTALL INSULATED GREEN BONDING CONDUCTOR IN ALL EMT CONDUIT.
8. ALL WIRING SHALL BE CONCEALED FROM VIEW UNLESS OTHERWISE NOTED.
9. ELECTRICAL CONTRACTOR SHALL MAKE A PERSONAL SITE VISIT AND CONFIRM ALL QUANTITIES/LOCATION/MOUNTING PRIOR TO SUBMITTING QUOTE.
10. CONTRACTOR SHALL REPAIR ALL SURFACES DAMAGED DUE TO WORK PERFORMED.
11. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, DO NOT SCALE DRAWING.
12. ALL MATERIALS REMOVED AND MADE REDUNDANT BY THIS WORK (UNLESS INDICATED OTHERWISE) SHALL BECOME PROPERTY OF OWNER.

**15-<I**

1. MOUNTING HEIGHTS FOR DEVICES AS PER CODE REQUIREMENTS, UNLESS OTHERWISE NOTED.
2. MOUNT ALL EMERGENCY LIGHTING AT 7'-6" ABOVE FINISHED FLOOR. WHERE CEILING HEIGHT PREVENTS A 7'-6 MOUNTING HEIGHT, LOWER EMERGENCY LIGHTING AS NECESSARY OR MAKE MINOR ADJUSTMENT OF MOUNTING LOCATION. REQUEST APPROVAL FROM CONSULTANT IF MOUNTING HEIGHT LOWER THAN 7'-0" IS NECESSARY. PROVIDE RECEPTACLE ABOVE CEILING AS REQUIRED.
3. COORDINATE ALL LIGHT FIXTURE AND RECEPTACLE INSTALLATION IN MILLWORK WITH CABINET BUILDER.

16. THE INTENT OF THIS PROJECT IS INSTALL A COMPLETE LIGHTING DESIGN. IF SWITCHING FOR AN AREA IS NOT SHOWN, THE ELECTRICAL CONTRACTOR SHALL PROVIDE SWITCHING.

17. ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL ALL FUSED AND NON-FUSED DISCONNECTS AS REQUIRED FOR ALL MECHANICAL EQUIPMENT INDICATED ON ELECTRICAL AND MECHANICAL DRAWING SETS. AMPERAGE, VOLTAGE AND NUMBER OF POLES TO BE CONFIRMED WITH MANUFACTURER'S LITERATURE.

18. COMPLETE TYPEWRITTEN PANEL SCHEDULES ARE TO BE PROVIDED FOR ALL PANELS.

19. ALL ELECTRICAL EQUIPMENT WITHIN SPRINKLERED ROOMS SHALL BE EQUIPPED WITH HOODS SUITED FOR THE APPLICATION. IF HOODS ARE NOT PROVIDED BY THE FACTORY OR IT IS FOR AN EXISTING PIECE OF EQUIPMENT, IT SHALL BE THE ELECTRICAL CONTRACTORS RESPONSIBILllY TO SUPPLY AND INSTALL THESE HOODS ON NEW OR EXISTING EQUIPMENT AS REQUIRED.

20. ALL CEILING SPACES IN RENOVATION AREAS ACT AS RETURN AIR PLENUMS. ALL CABLING IN CEILING SPACE MUST HAVE AN FT6 FIRE RATING OR BE COMPLETELY ENCLOSEDIN CONDUIT.

W/R EMERGENCY CALL SYSTEM

1. PROVIDE LINE VOLTAGE AND LOW VOLTAGE CONNECTIONS FOR ALL COMPONENTS ASSOCIATED WITH THE WASHROOM EMERGENCY CALL SYSTEM INCLUDING, BUT NOT LIMITED TO; OPERATORS, HORNS, PUSHPADS, **ELECTRIC** STRIKE, L.V TRANSFORMERS, STROBES AND OTHER MISCELLANEOUS COMPONENTS.
2. PROVIDE ALL CONDUIT AND WIRING NECESSARY FOR A **COMPLITE**

WORKING SYSTEM.

1. COORDINATE **WITH** DOOR HARDWARE SUPPLIER/INSTALLER
2. PROVIDE POWER FROM BARRIER-FREE DOOR OPERATOR CIRCUIT.

**ELECTRICAL SITE PLAN**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ELECTRICAL PANEL** , **C,** | | | | | | | | | | | | | | | | | | |
| CCT.  No | CIRCUIT USE | BREAKER | | VOLTS |  | | | WIRE AND CONDUIT SIZE |  | C,C,T. | CIRCUIT USE | BREAKER | | VOLTS |  | | | WIRE AND CONDUIT SIZE |
| SIZE | POLES | " |  | C, | SIZE | POLES | " |  | C, |
|  | COPIER RECEPTACLE - ROOM 102 | 15A |  | 120 | 1000 |  |  | 2c#12 AWG | 2 | LIGHTING - ROOMS 100-104 | 15A |  | 120 | 322 |  |  | 2c#12 AWG |
| 3 | DATA RECEPTACLES - ROOMS 103, 104 | 15' |  | 120 |  | 720 |  | 2c#12 AWG | 4 | LIGHTING - ROOMS 105-111, 113-115 (EF-2) | 15A |  | 120 |  | 436 |  | 2c#12 AWG |
| 5 | DATA RECEPTACLES - ROOM 102 | 15A |  | 120 |  |  | 720 | 2c#l2 AWG | 6 | EXTERIOR LIGHTING | 15A |  | 120 |  |  | 500 | 2c#12 AWG |
| 7 | DATA RECEPTACLES - ROOMS 115, 132 | 15A |  | 120 | 720 |  |  | 2c:#12 AWG | 8 | LIGHTING - ROOMS 118, 119, 126 | 15' |  | 120 | 622 |  |  | 2c#12 AWG |
| 9 | DATA RECEPTACLES - ROOM 111 | 15A |  | 120 |  | 360 |  | 2c#12 AWG | 10 | LIGHTING - ROOMS 112, 116, 130, 132, 133 | 15A |  | 120 |  | 400 |  | 2c#12 AWG |
| 11 | DATA RECEPTACLES - ROOMS 105, 106, 109 | 15A |  | 120 |  |  | 360 | 2c#12 AWG | 12 | LIGHTING - ROOMS 120, 122, 123, 125, 128, 129 | 15A |  | 120 |  |  | 550 | 2c#12 AWG |
| 13 | DATA RECEPTACLES - ROOMS 102, 115 | 15' |  | 120 | 360 |  |  | 2c#12 AWG | 14 | EXTERIOR RADIO TOWER LIGHTING | 15A |  | 120 |  |  |  | 2c#12 AWG TECK90 |
| 15 | 20A GFI RECEPTACLES - ROOM 132 | 15A |  | 120 |  | 750 |  | 2c#12 AWG | 16 | RECEPTACLES - ROOMS 105, 106 | 15A |  | 120 |  | 480 |  | 2c#12 AWG |
| 17 | MICROWAVE RECEPTACLE - ROOM 132 | 15A |  | 120 |  |  | 1000 | 2c:#12 AWG | 18 | BARRIER-FREE DOOR OPERATORS - ROOMS 100, 101 | 15A |  | 120 |  |  | 1000 | 2c#12 AWG |
| 19 | u/c FRIDGE RECEPTACLE - ROOM 132 | 15A |  | 120 | 500 |  |  | 2c#12 AWG | 20 | TELEPHONE BOARD RECEPTACLES - ROOM 118 | 15A |  | 120 | 720 |  |  | 2c#12 AWG |
| 21 | FRIDGE RECEPTACLE - ROOM 132 | 15A |  | 120 |  | 500 |  | 2c#12 AWG | 22 | (EF-3XEF-4XEF-5) EXHAUST FANS | 15A |  | 120 |  | 640 |  | 2c#12 AWG |
| 23 | GFI RECEPTACLES - ROOMS 101, 108, 111, 113, 133 | 15A |  | 120 |  |  | 720 | 2c#12 AWG | 24 | PUMP P-1, PUMP P-2 | 15A |  | 120 |  |  | 500 | AS NOTED |
| 25 | GFI RECEPTACLES - EXTERIOR | 15A |  | 120 | 360 |  |  | 2c#12 AWG | 26 | PUMP P-3, PUMP P-4 | 15A |  | 120 | 500 |  |  | AS NOTED |
| 27 | RECEPTACLES - ROOMS 112. 118, 119, 126, 130 | 15A |  | 120 |  | 960 |  | 2c:#12 AWG | 28 | <m(ID PUMP P-8, PUMP P-9 | 15A |  | 120 |  | 500 |  | AS NOTED |
| 29 | RECEPTACLES - ROOMS 104, 107, 109, 115 | 15A |  | 120 |  |  | 600 | 2c#12 AWG | 30 | PUMPS | 15A | 2 | 208 |  |  | 900 | AS NOTED |
| 31 | RECEPTACLES - RMS 100, 102, 103, 104 | 15A |  | 120 | 720 |  |  | 2c#12 AWG | 32 | 900 |  |  |
| 33 | GFI RECEPTACLES - EXTERIOR | 15A |  | 120 |  | 180 |  | 2c#12 AWG | 34 | FUEL MONITORING - ROOM 118 | 15A |  | 120 |  |  |  | 2c#12 AWG |
| 35 | GFI RECEPTACLES - EXTERIOR | 15A |  | 120 |  |  | 180 | 2c#12 AWG | 36 | FLUSH VALVE PWR - 121, 124, 127 | 15A |  | 120 |  |  | 500 | 2c#12 AWG |
| 37 | RECEPTACLES - ROOM 111 | 15' |  | 120 | 360 |  |  | 2c:#12 AWG | 38 | MECH EQUIPMENT CONTROL CIRCUIT - ROOM 118 | 15A |  | 120 | 500 |  |  | 2c#12 AWG |
| 39 | DATA RECEPTACLES - ROOM 102 | 15A |  | 120 |  | 720 |  | 2c#12 AWG | 40 | WATER UNE HEAT TRACE (30mA GFCI-TYPE BREAKER) ROOM 118 | 15' | 2 | 208 |  | 400 |  | 2c#12 AWG |
| 41 | (EF-11) EXHAUST FAN EF-11 | 15A |  | 120 |  |  | 200 | 2c#12 AWG | 42 |  |  | 400 |
| 43 | 20A RACK RECEPTACLE - ROOM 111 | 20A |  | 120 | 720 |  |  | 2c#12 AWG | 44 | SANITARY LINE HEAT TRACE (30mA GFCI-TYPE BREAKER) ROOM 118 | 15A | 2 | 208 | 400 |  |  | 2c#12 AWG |
| 45 |  |  |  |  |  |  |  |  | 46 |  | 400 |  |
| 47 |  |  |  |  |  |  |  |  | 48 |  |  |  |  |  |  |  |  |
| 49 |  |  |  |  |  |  |  |  | 50 |  |  |  |  |  |  |  |  |
| 51 |  |  |  |  |  |  |  |  | 52 |  |  |  |  |  |  |  |  |
| 53 |  |  |  |  |  |  |  |  | 54 |  |  |  |  |  |  |  |  |
| 55 |  |  |  |  |  |  |  |  | 56 |  |  |  |  |  |  |  |  |
| 57 |  |  |  |  |  |  |  |  | 58 |  |  |  |  |  |  |  |  |
| 59 |  |  |  |  |  |  |  |  | 60 |  |  |  |  |  |  |  |  |
| VOLTAGE: 120/208VAC MAINS: 200A PHASE: 3 FED FROM: */>S* INDICATED  MAIN BREAKER: N/A BREAKER I.C.. 10KA WIRE: 4 LOCATION: AS SHOWN MOUNTING: SURFACE FEEDER: */>S* INDICATED | | | | | | | | | | | | | | | | | | |

SECONDARY TRENCH DETAIL

NOT **TO SCALE**

**l=.n**

0 16'

32'

j 1/32"=1'-0" 48'

DEC 14 2021

- **AGEngineering**

14 St. Paul Street, Suite 201 Thunder Bay, Ontario,P7A 4S5

[www.agpeng.com](http://www.agpeng.com/)

PROJECT TITLE

DRAWING TITLE

DRAWING SCALE: As Noted

PROJECT No. : A104-21-003

*r* Thunder Bay Inc.

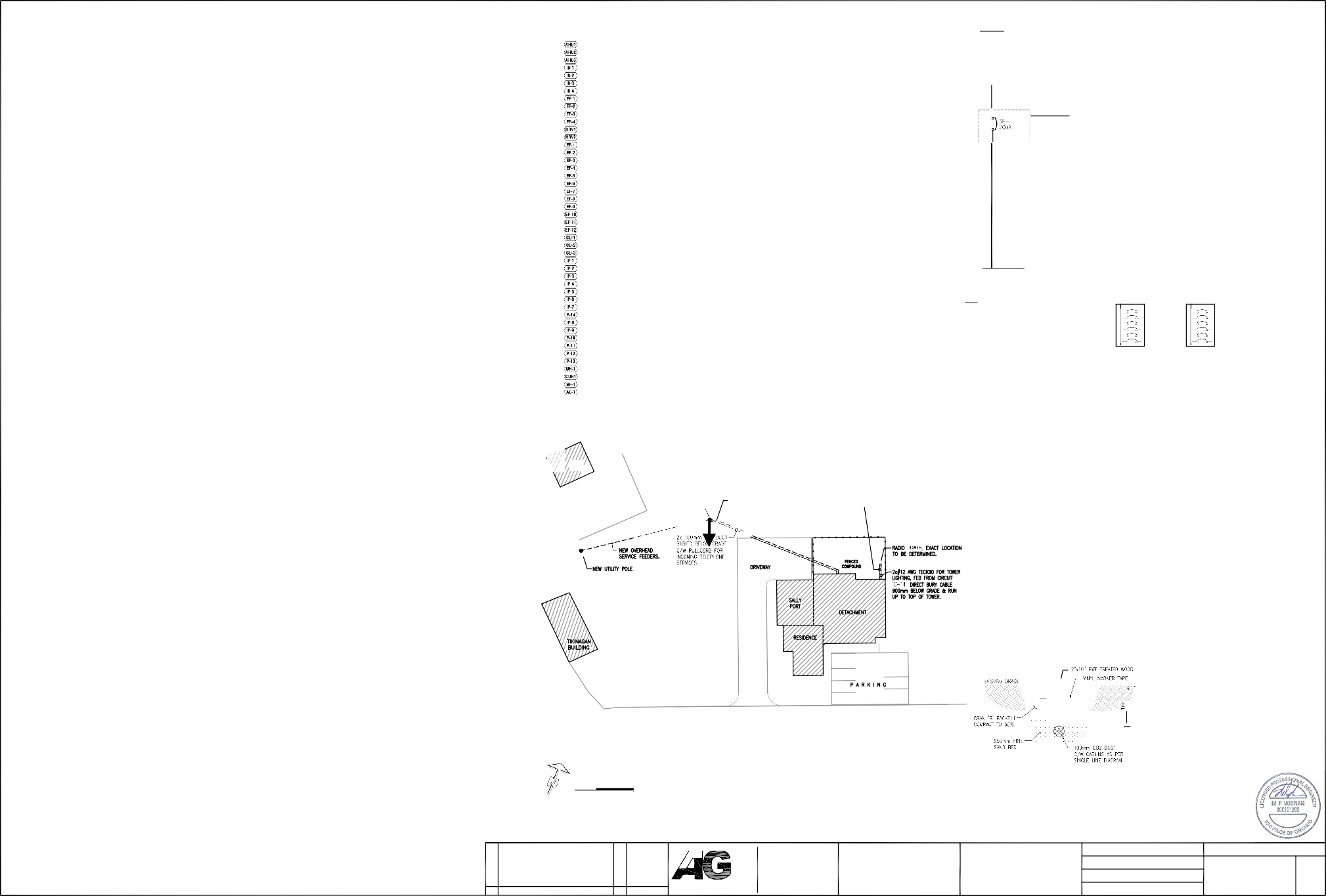
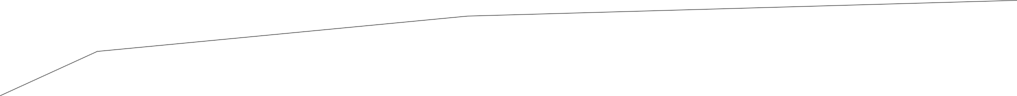
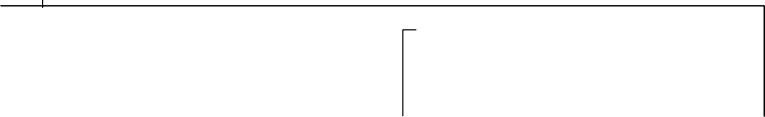
DRAWN BY: GAP

APPROVED BY: MPN

**Nishnawbe Aski Police Service Electrical Site Plan and**

DATE ISSUED: December 2021

DRAWING No. REV No.



0 ISSUED FOR TENDER

No.

DESCRIPTION

GAP DEC 14 2021

BY

DATE

-

-

**Electrical Engineers** 807•622•3554

**New Detachement Building**

**Single Line Diagram**

**Marten Falls First Nation**

**E1** ffi

ENSURE MINIMUM 1m **CLEARANCE** AROUND ,,/ GENERATOR SET. REFER TO ARCHITECTURAL DRAWINGS FDR EXACT LOCATION.

**HEAT TRACE NOTES**

GENERATOR SET

FUEL MONITORING

POWER IDENTIFICATION LEGEND

* 1. FEED HEAT TRACE CABLE (SUPPLIED AND INSTALLED BY MECHANICAL) FROM 2P-15A GFCI TYPE BREAKER W/ 30mA TRIP. FIELD LOCATE.

6

C-34

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<ti> 15A **DUPLEX RECEPTACLE**

$' 4-BUTTON TIMER SWITCH, 1800W RATING, 120V

* 1. COORDINATE INSTALLATION \IHH MECHANICAL TRADES, MAKE **ALL**

120V CONNECTIONS AS NEEDED.

* 1. PROVIDE ADJUSTABLE THERMOSTATIC CONTROL FDR HEAT **TRACE**

CABLING LOCATED ON EXTERIOR FACE OF BUILDING.

,- - - - \_f[ELD\_w\_c r[ \_pJlMPS,\_\_REl:ER \_TD\_.MECl::\_JDWG.5 - - - - - - - - - - - - - - - -- - - - - - - - -UTILITY- - - - - - -

: P-S -,- --, - "-r-' METERBASE THE DESIGNATED CONTROL CIRCUIT SHALL BE USED : p.5 p.7 p.11 1'771

BY THE CONTROLS CONTRACTOR AS NEEDED FDR , c;'- "+'

THEIR EQUIPMENT. COORDINATE WITH AND PROVIDE :

---FT-1--­ LP-1

--FT ----------------------------------------------------------------

LP-2

□

15A TAMPERPROOF DUPLEX RECEPTACLE

15A **GFI RECEPTACLE** - IN OUTDOOR LOCATIONS MOUNT IN WEATHERPROOF

5/10/15/30 MINUTE PRESET BUTTONS LEVITON# LTB30-1L

ELECTRIC MOTOR

LINE VOLTAGE WIRING AS NEEDED TO FACILITATE 1

r--, THEIR INSTALLATION. CIRCUIT 'C-38'. i

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PNL 'A'

BACKBOX W/ SPRING **LOADED** COVER 20A DUPLEX RECEPTACLE

*i i* 20A GFI RECEPTACLE

iZI'

DISCONNECT SWITCH. SIZE AS REQUIRED. OUTDOOR

**RATED** WHERE REQUIRED.

COMBINATION MAGNETIC MOTOR STARTER C/W H/0/A

7 8-37 **n** 8-39 **r( F-1)** MECH/

s-13 I

I I **¢0** IB-13

C-27 IL1Ei I

**'0l>**

*L*WATER LINE **HEAT** LSANITARY LINE HEAT C-20

'0l>

C-2D

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**:l**

RANGE RECEPTACLE

SELECTOR SWITCH AND AUXILIARY CONTRACTS. SIZED TO MOTOR LOADS.

MAGNETIC CONTACTOR. VOLTAGE AND RATING TO

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, \"-, INTERLOCK EF-1 WITH MOTORIZED

: : \ OVERHEAD DOOR MOTORS, :

PROVIDE WIRING TO REMOTE

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PANEL

'B'

TRACE, REFER TO NOTES, C-40/ 42.

TRACE, REFER TO

**NOTES,** C-44/ 46.

TELEPHONE BOARD & GROUND BAR

C-20

AUTO-FLUSH POWER, C-36

BULLPEN 0r

ffiW

AUTO-FLUSH POWER, C-36

fELL#l

SPECIAL CONNECTION FOR POWER SPECIAL **RECEPTACLE**

DATA & TELEPHONE OUTLET. PROVIDE 3/4"

MATCH CONNECTED MOTOR LOAD. LOW VOLTAGE COIL TO MATCH **BUILDING AUTOMATION** SYSTEM.

REVERSE-ACTING THERMOSTAT, SUPPLIED BY MECH, INSTALLED BY ELEC.

CO DETECTOR, SUPPLIED BY MECH, INSTALLED BY

\ DAMPER AND CO DETECTION. I

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\ REFER TO MECHANICAL DRAWINGS

\

FOR SEQUENCE OF OPERATION

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\ AND COORDINATE AS REQUIRED.

I OPERATOR, FIELD LOCATE AS

PER OWNER'S REQUIREMENTS. I u'

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**EMT** RACEWAY FROM DEVICE LOCATION TO THE CEILING SPACE IN THE GENERAL OFFICE AREA C/W PULLCORD.

**ELEC.**

REMOTE FLUSH PUSHBUTTON, SUPPLIED AND

**INSTALLED** BY MECH, WIRED BY ELEC.

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FP ' FP

TELEPHONE OUTLET. PROVIDE 3/ 4'' EMT RACEWAY FROM DEVICE LOCATION TO **THE** CEILING SPACE IN THE GENERAL OFFICE

AREA C/W PULLCORD.

CH 'CH' DENOTES DEVICE WALL-MOUNTED AT COUNTER

**HEIGHT.**

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*J).-r2x* 4"¢ EMT CONDUIT

**BETWEEN** ROOM 118

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**WASHER/**

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BARRIER-FREE DOOR OPERATOR. ALL POWER AND CONTROL WIRING BY ELECTRICAL CONTRACTOR. INSTALL **CONDUIT** AND RECESSED BOXES FDR PUSHBUTTONS AS REQUIRED. **COORDINATE** WITH DOOR HARDWARE SUPPLIER/INSTALLER.

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FINGER PRINTING

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GUARDS AREA

DID

MICROWAVE C-17

U/C FRIDGE

BOOKING AREA

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11

D A-1/3

LAUNDRY/ STORAGE

[I'iQJ

J POWER, C-36

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& BREATH

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GUARDS

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MONITOR DEVICESl I I

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**HALL** CELL

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AT **HIGH** LEVEL C-13

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CClV MONITOR 0

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DEVICES **AT**

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HIGH **LEVEL**

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REFER TO EMERGENCY

*r* SATELLITE PHONE CONDUIT

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CALL SYSTEM NOTES.

NEAR ROOF LEVEL PENETRATE

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CH SATELLITE PHONE 3/4"¢ CO DUIT FROM CONDUIT I

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**(EF-4§)** '$[ :)/ ,,,

SOFFIT AT HIGHEST ROOF PEAK.

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-----,- 1- -- EXTERIOR WALL JUST BELOW

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FREEZER

B-16

FRIDGE 8-8

B-14

B-10

B-38

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8-9

WASHER/ DRYER

A-5/7

**(EF-12)Q**

LAUNDRY/

C-7

C-7

**4**

DVR

I EXTERIOR **WALL** TERMINATED,IN **STANDARD** L /,C-18 DEVICE BOX AT DESKEIGH!

\_..,,---DEVICE BOX FOR 3/4"¢: EMJ BACK TO

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MICROWAVE A-8

STAFF ROOM

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RANGE A-2/4

RANGEHOOD

A-6 B-38

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FITNESS ROOM 1102s I

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STORAGE

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: ACCESS-=: LI \_--HAfCH- JI

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**HARD**

INTERVIEW

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C-29

C-29

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[JJ]J

ROOM

Dill

REFER TO DETAIL

\_,.,..-- SECURITYPANEL. REFE TO:BUILDING ALARM RISER(RADIO **E UIP ENT** LINK)

o, : [2J**PACKPOLE**

*4=* --... RADIO TOWER 4" : C-5 DIA CONDUIT :

ENTRY POINT 1

C-S THROUGH SLAB. :

**GENERAL OFFICE**

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WAITING AREA

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47"AFF►

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,---·1.,,...--12•·x4" WIRE MESH CABLING TRAY IN CEILING SPACE TO :

IALL#I I I ACCOMMODATE FUTURE :

: f'

r 109 : : L D-AT-A-/V-O-IC-E-C-A-B-LI-N-G. 1j

MEZZANINE ELECTRICAL LAYOUT

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**D** C-29

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36"AFFJ

Fl

C-29

***q*** ,....----- CCTV MONITOR

SERGEANT'S OFFICE

[]Q[] C-31

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**WALL** MOUNTED LT. RACK PROVIDE /6 AWG GROUND FOR I.T. RACK BACK TO

MAIN BUILDING GROUND IN MECH ROOM 118.

2"¢ CONDUIT FOR STARLINK EXTENDING FROM ROOM 111 UP THROUGH EXTERIOR WALL JUST BELOW HIGHEST ROOF PEAK.

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**fl,**"AFF

C-16 C-16 EXHIBIT

C-J DEVICES AT

**4** SOFT '

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8-19

BATH 1

GUN ROOM C-16

HIGH **LEVEL**

INTERVIEW C-31

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106S

MUDROOM

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TRAINING ROOM

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20A RACK\_} ,

MOUNTED, C-43

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**36"AFF** '

C-37 '

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12"x4n WIRE MESH CABLING TRAY AT CEILING.

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**CABLE TRAY NOTES**

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CABLOFIL WIRE

TELEPHONE BOARD

DVR ROOM

SUPPLY ANO INSTALL ALL NEW CABLE TRAY IN CEILING SPACE. ALL CABLE TRAY SHALL BE WIRE MESH TYPE SIZED AND ROUTED AS INDICATED ON DRAWINGS. EQUAL TO CABLOFIL.

WALL TYPE SUPPORT FDR VERTICAL APPLICATIONS '

MESH **TRAY**

C-37

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1. INSTALLATION **OF CABLE** TRAY **SHALL** BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.
2. ALL CABLE TRAY SHALL BE A GROUNDED IN ACCORDANCE W/ OESC AND MANUFACTURER'S REQUIREMENTS RUN A #6 BARE COPPER GROUND CABLE ALONG ENTIRE CABLE TRAY

LENGTH. BONO TO CABLE TRAY USING APPROVED GROUND LUGS EVERY 50' OF CABLE TRAY LENGTH. TIE CABLE INTO MAIN BUILDING GROUND.

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MESH TYPE CABLE TRAY.

REFER TO PLAN SHEETS FDR REQUIREMENTS

36"AFF

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TIE INTO

**LIGHTING**

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1. PROVIDE HANGERS, TRANSITIONS, MOUNTING HARDWARE, GROUND LUGS, CLAMPS AND MISCELLANEOUS EQUIPMENT FOR A COMPLETE INSTALLATION.
2. LAY PULL STRING IN CABLE TRAY ALONG ENTIRE CABLE TRAY LENGTH FDR FUTURE CABLE INSTALLATION.
3. MOUNT CABLE TRAY MINIMUM 305mm ABOVE LIGHT FIXTURES.
4. ALL go· BENDS AND 'T's ARE TO BE RADIUS TYPE. NO SHARP CORNERS ARE PERMITTED.

MESH TYPE CABLE TRAY. REFER TO PLAN SHEETS FOR REQUIREMENTS

CIRCUIT.

□RT

*- : OOmm* CONDUIT

STUBS IN CEILING SPACES BETWEEN ROOMS 111 & 109.

NOTE,

FOR ALL **SWITCHED** RECEPTACLES, SWITCH **THE** UPPER OUTLET ONLY.

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**POWER LAYOUT**

IEST 111S

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PROJECT No. : **A104-21-003**

8-7

PROVIDE RADIUS 90' AND 'T' KITS TO SUIT LAYOUT.

1. INSTALL CABLE TRAY IN AVAILABLE CEILING SPACE. TRANSITION HEIGHTS AS NEEDED AND FULLY COORDINATE WITH ALL OTHER TRADES.
2. ADJUST CABLE TRAY ROUTING TO AVOID INTERFERENCE WITH MECHANICAL DUCKWORK AND SPRINKLER PIPING.

IE1S1T3S

CABLE TRAY SUSPENSION

NOT TO SCALE

-

**AGEngineering**

PROJECT TITLE DRAWING TITLE

CABLE TRAY 90° BEND

NOT TO SCALE

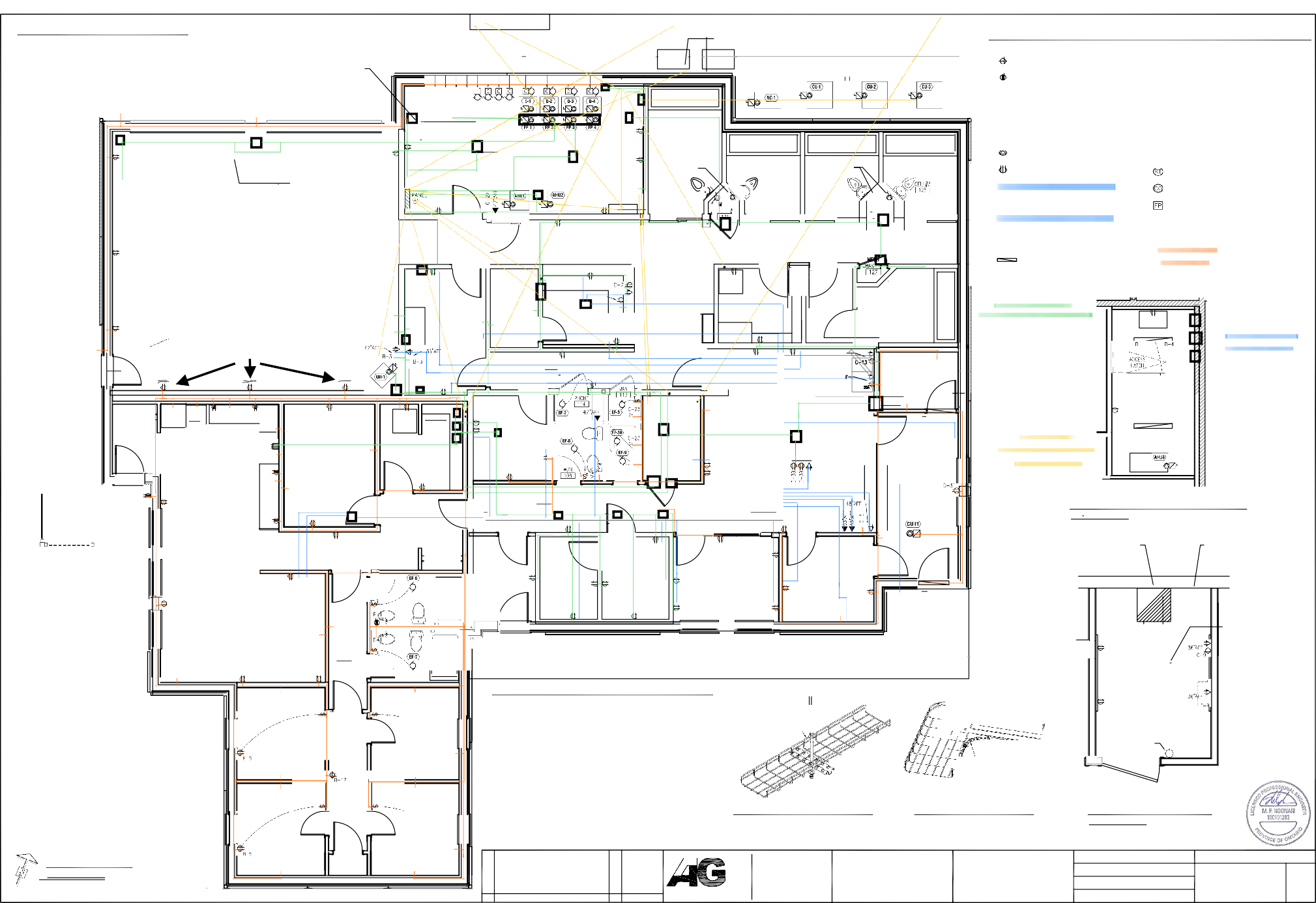
DVR ROOM 111 LAYOUT

1/2"'=1'-0''

0 12" 24' 36"

DRAWING SCALE: As Notsd

DEC 14 2021



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**lddF7=1e==F=91**"'"01·-o' r"

0 2'-0" 4'-0' 6'-0" '

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DJ.m

T T \_

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LINEN

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0 ISSUEDFOR TENDER No. DESCRIPTION

GAP DEC 14 2021

BY DATE

Thunder Bay Inc.

14 St. Paul Street, Suite201

*r*

- Thunder Bay, Ontario, P?A 4S5

**Electrical Engineers** t J P om

Nishnawbe Aski Police Service New Detachement Building Marten Falls First Nation

**Power Layout**

DATE ISSUED: December 2021 DRAWN BY: GAP

APPROVED BY: MPN

DRAWING No. REV No.

**E2** ffi

LIGHTING IDENTIFICATION LEGEND

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**A**

lYPE 'A' - **LED** CONFINEMENT FIXTURE, SURFACE-MOUNT 50W, 120V, 5000"K, 6250 LUMEN C/W 0-IOV DIMMABLE. CAT# 53-14-A-L2-50-1-4/D-UN-DM

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FIELD LOCATE FIXTURES TO SUIT MECHANICAL EQUIPMENT.

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FOR **ALL** CELL **LIGHT** FIXTURES,

* 1. B DIMMER CONTROLS MAIN FIXTURE

lYPE 'B' - LED CONFINEMENT FIXTURE, CORNER-MOUNT

50W, 120V, 5000"K, 5750 LUMEN, c/w 0-IOV DIMMABLE MAIN FIXTURE, INTEGRAL 3500"K NIGHT **LIGHT.**

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SWITCH CONTROLS NIGHT LIGHT

NEW STAR **LIGHTING**

CAT# 554-A-L2-50-1-4/D-UN-LN-DB

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TYPE 'C' - LED CLOSET **LIGHT** FIXTURE C/W INTEGRAL OCCUPANCY SENSOR. LEVITON# 9864-LED

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B C-12 SW5 DM5

fELL#l 123

DM4

fELL#j 125

C-12 B SW4 DM4

**lYPE** 'D' - LED **SURFACE** WRAP **FIXTURE**

D 34W, 120V, 4000-K, 4420 LUMEN, 0-10V DIMMING EIKO LIGHTING

CAT# **LLW-4CP-40K-U**

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lYPE 'E' - LED TROFFER FIXTURE

23W, 120V, 4000-K, 3250 LUMEN, 0-10V DIMMING HIGH EFFICIENCY, MATTE FINISH, 24"x24"

EIKO LIGHTING

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CAT# VOL22-3CP-40K-U

lYPE 'F' - LED WALL-MOUNT FIXTURE, OPAL LENS

F 32W, 120V, 4000"K, 4224 LUMEN, 48" LENGTH

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EIKO LIGHTING

CAT# STR-3C-40K-U

TYPE 'J' - LED LINEAR FIXTURE, 48" LENGTH

J

30W, 120V, 4000-K, 4000 LUMEN, 0-10V DIMMING CREE CANADA CAT#

EM5 B-6

B-6 J

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LS4C-40L-40K-10V-FD/AC5-18/5-48-QI 4B-JB/ ACS-48-QI 4B-TB

KQ lYPE 'K' - LED 6" DOWNLIGHT FIXTURE

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12W, 120V, 4000"K, 1030 LUMEN, 0-10V DIMMING

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MEDIUM BEAM, SEMI-SPECULAR FINISH, CLEAR REFLECTOR

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TRIM CAT# S-DL6T-SS-C

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ORANGE BX WIRE

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TYPE 'p' - LED SURFACE-MOUNT CANOPY FIXTURE 66W, 120V, 4000'K, 7500 LUMEN, WHITE FINISH CREE LIGHTING IG SERIES

CAT# IG-NM-5S-J-40K-UL-WH/IG-JB

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oD lYPE 'Q' - LED ADJUSTABLE WALLPACK FIXTURE

26W, 120V, 4000"K, 2954 LUMEN, PHOTOCELL

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GREEN EMT CONDUITS

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BLUE EMERGENCY LIGHTS

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RAB DESIGN **LIGHTING**

CAT# AWL-LED26W-A-4K-BRZ-PCA

**lYPE** 'N4' - **LED** SURFACE-MOUNT **FIXTURE**

20W, 120V, 4000-K, 2000 LUMEN, WHITE FINISH,

10.4" DIA, LED 0-IOV DIMMING

IMPACT RESISTANT, WHITE **OPAL** POLYCARBONATE **LENS**

FC **LIGHTING#** FCW3050-120V-LED4K- 2000-WH-LD

lYPE 'N5' - LED SURFACE-MOUNT FIXTURE 38W, 120V, 4DOO"K, 3600 **LUMEN. WHITE** FINISH,

14" DIA, LED 0-IOV DIMMING

IMPACT RESISTANT, WHITE **OPAL** POLYCARBONATE **LENS**

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FC LIGHTING# FCW3060-120V-LED4K-3600-WH-LD

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UI lYPE 'UI' - LED UNDERCABINET FIXTURE, 12" LONG

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YELLOW UNDERGROUND CONDUITS

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I OW, 120V, 400D'K, 380 LUMEN C/W CONNECTORS, TERMINATIONS **KITS** AND MISCELLANEOUS FOR A **COMPLETE** INSTALLATION. COORDINATE EXACT MOUNTING LOCATIONS **WITH ARCHITECTURAL** DRAWINGS/ELEVATIONS.

**SSL eCOVELINE# ECVL-1-4K-120**

**TOGGLE** SWITCH

THREE-WAY TOGGLE SWITCH

SLIDE DIMMER SWITCH, lYPE TO **MATCH** FIXTURE AND/OR DRIVER lYPE.

PIR WALL SWITCH OCCUPANCY SENSOR LIGHTING CONTROL RATED 800W @ 120V

LEVITON# ODSIS-1D

COMBINATION DIMMER SWITCH AND PIR OCCUPANCY SENSOR, 0- IOV DIMMING

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INTERVIEW []

LUTRON# NS-Z101

INFRARED OCCUPANCY SENSOR, LINE VOLTAGE, 450 SOFT

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COVERAGE, CEILING MOUNTED.

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LEVITON # ODC04-IDW, OR EQUAL

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REFLECTED CEILING LEGEND

**'NL'**

'NL' DENOTES AN UNSWITCHED **NIGHT LIGHT** FIXTURE.

NEW EMERGENCY 12 voe **LIGHTING** UNIT C/W INTEGRAL 12VDC 6W LED MR16 **HEAD(S)** AS INDICATED.

SIZED FOR 0.5HR COVERAGE.

EMERGI-LITE# JMLC SERIES

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SUSPENDED ACOUSTIC CEILING TILES @ g' -0" AFF

**TILE** TO BE CGC - OLYMPIA - FINE **TEXTURED PANEL**

SECURllY **CEILING SYSTEM** C/W SUSPENSION SYSTEM.

2- 5/8" DRYWALL- PAINTED

5/8" TYPE 'x' DRYWALL CEILING AT g'-o" PAINTED

5/8" PLYWOOD

SECURITY WIRE MESH-AMICO

1/2" lYPE 'X' DRYWALL PAINTED ON 3 5/8"- 16 GA. METAL FURRING @ 16" O.C.

SLOPED 1/2'' DRYWALL **PAINTED** CEILING ON **RESILIENT**

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CHANNELS

**SLOPED** 5/8" lYPE 'X' **DRYWALL** PAINTED **CEILING** ON

0

**RESILIENT** CHANNELS

REMOVABLE ARMSTRONG METALWORKS SECURELOCK CEILING

**SYSTEM** C/W SUSPENSION **SYSTEM.**

EMERGENCY LIGHTING 12 voe 6W LED MR16 DOUBLE REMOTE HEAD(S). WIRED TO PACK EM# (USE #ID AWG AC90 MIN. FOR

1 ZVDC WIRING). WALL/CEILING MOUNT AS INDICATED ON DRAWINGS. EMERGI-LITE# JMLC SERIES

LED "RUNNING MAN" **EXIT** SIGN W/ PICTOGRAM SYMBOLS CONFORMING TO ISO 7010. EXTRUDED ALUMINUM FRAME

W/ **CLEAR** POLYCARBONATE **PANELS** AND PICTOGRAM **FILMS.**

SELF-POWERED WITH NICKLE-CADMIUM BATTERY SIZED FOR

2 HOURS BACKUP. UNIVERSAL VOLTAGE

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5/8" lYPE 'X' DRYWALL

0 1/2" **DRYWALL** PAINTED CEILING ON 2,6 CEILING JOISTS

SECURE ACCESS PANEL LOCATED IN **CEILING**

(120V-347V). SINGLE OR DOUBLE FACED

TO SUIT AND PICTOGRAM FILMS TO DENOTE EXIT DIRECTIONS AS **NOTED** ON DRAWINGS. EMERGI-LITE# EA SERIES

LIGHTING LAYOUT

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EXTERIOR LIGHTING NOTE

ALL EXTERIOR LIGHT FIXTURES **SHALL** BE CONTROLLED BY REMOTE PHOTOCELL. ELECTRICAL CONTRACTOR TO PROVIDE PHOTOCELLS, **LIGHTING** CONTACTORS AND **ALL OTHER** NECESSARY EQUIPMENT

FOR A COMPLETE WORKING SYSTEM.

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**AGEngineering**

Thunder Bay Inc.

PROJECT TITLE DRAWING TITLE

**Nishnawbe Aski Police Service Lighting Layout**

DRAWING SCALE: As Noted

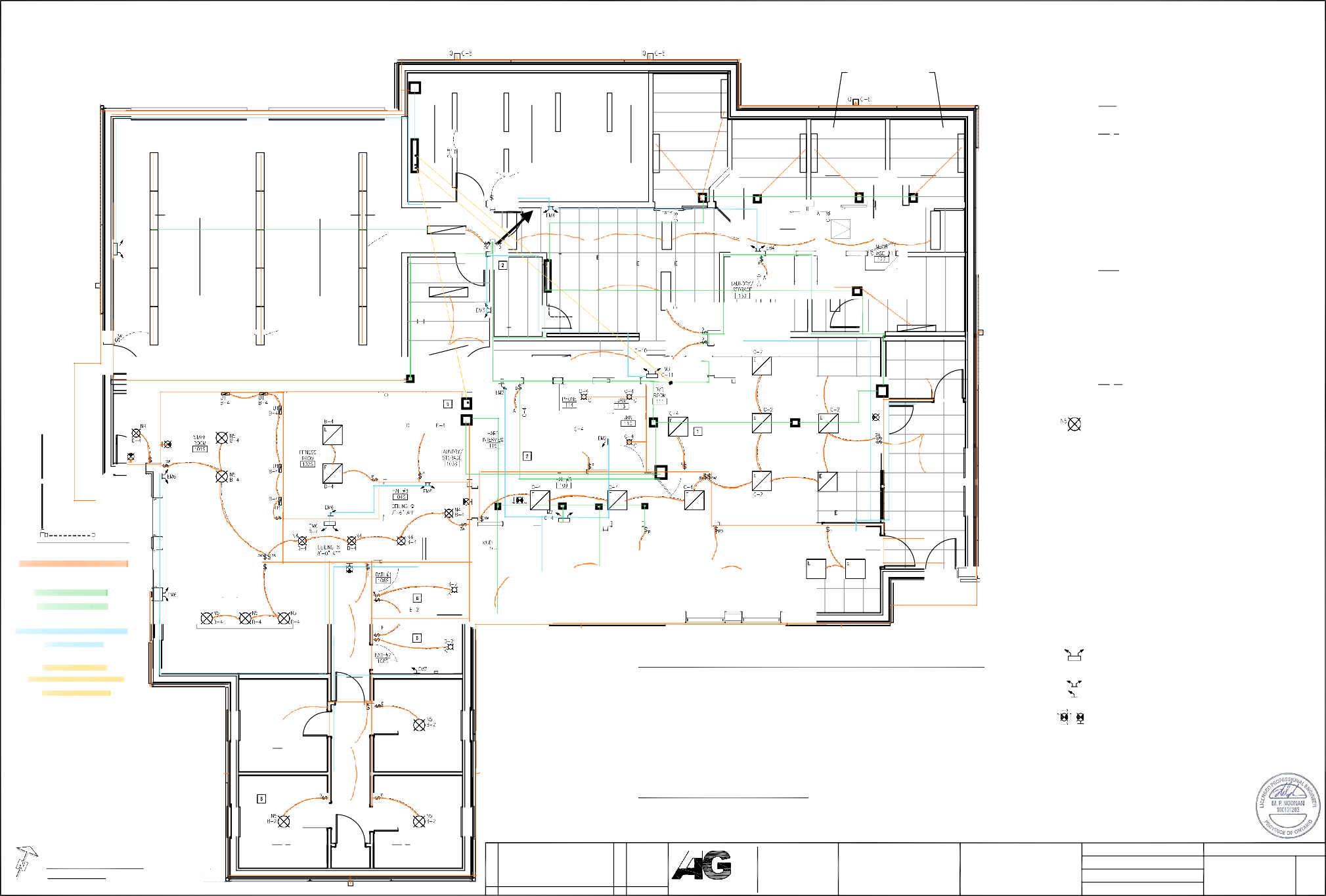
DATE ISSUED: December 2021

DEC 14 2021

PROJECT No. : **A104-21-003**

DRAWING No. REV No.

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No. DESCRIPTION

GAP DEC 14 2021 BY DATE

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**Electrical Engineers**

14 St. Paul Street, Suite 201 Thunder Bay, Ontario,P7A 4S5 807 622 3554

[www.agpeng.com](http://www.agpeng.com/)

• •

**New Detachement Building Marten Falls First Nation**

DRAWN BY: GAP APPROVED BY: MPN

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SYSTEMS IDENTIFICATION LEGEND

.;:] FIRE ALARM **PULLSTATION, 2-STAGE**

FIRE ALARM **HORN/STROBE**

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HEAT DETECTOR

FIXED TEMPERATURE HEAT DETECTOR

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2x 100mm INCOMING TELEPHONE SERVICE CONOUITS ENTRY POINT. 0

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IONIZATION SMOKE DETECTOR

LINE VOLTAGE COMBINATION SMOKE ALARMS C/W VISUAL STROBE, BATTERY BACKUP, TEMPORAL SOUND PATTERN AND SILENCE BUTTON. **BATTERY** SIZED TO PROVIDE 7 DAYS BACKUP POWER. TIE INTO 120V **LIGHTING CIRCUIT** AHEAD OF SWITCHING. INTERCONNECT ALL SMOKE ALARMS SO THAT THE ACTUATION OF ONE COMBINATION SMOKE ALARM WILL CAUSE ALL SMOKE ALARMS TO SOUND. CEILING-MOUNT

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BULLPEN

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VP 'VP' DENOTES DEVICE WITH **PENITENTIARY** GRADE

**VANDAL**-PROOF COVER

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EE SECURITY KEYPAD

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EMERGENCY CALL SYSTEM NOTES ON DWG 'E1'

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MOTION SENSOR (CEILING MOUNT)

CARD ACCESS **LOCATION**

**[I ELECTRIC** STRIKE

@) CELL CEILING MICROPHONE

DURESS PANIC BUTTON

8 B DURESS ALARM SOUNDER

[ill **LOW** TEMPERATURE SENSOR

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MIRCOPHONE ON/OFF **TOGGLE** SWITCH

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\\_ EXTERIOR FIRE ALARM STROBE DEVICE TO ACTIVATE UPON FIRST STAGE ALARM.

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WALL MIRCOPHONE

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FIELD LOCATE PUSHBUTTONS\ IN GENERAL OFFICE FOR

FIRE ALARM ANNUNCIATOR

PANEL

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EXTERIOR CAMERA LOCATION

INTERIOR CAMERA LOCATION

*\;('* INTERVIEW ROOM CAMERA LOCATION

IZ)J CORNER-MOUNT **CELL** CAMERA LOCATION CC#

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REMOTE RELEASE OF DOOR D-4 AND 0-5.

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BUILDING SECURITY SYSTEMS/IT WORK

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THE INSTALLATION OF SECURITY, CARD ACCESS, CCTV, DURESS AND IT SYSTEMS SHALL BE

**1** COMPLETED BY BAY LOCK AND SECURITY. A CASH ALLOWANCE HAS BEEN IDENTIFIED IN THE

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SPECIFICATIONS TO COVER THE SECURITY CONTACTOR'S WORK. THE CONTRACTOR SHALL CARRY BAY LOCK AS A SUB-CONTRACTOR, COORDINATE THE INSTALLATION AS NEEDED AND PROVIDE ANY LINE VOLTAGE POWER CONNECTIONS THAT MAY BE REQUIRED. THE ELECTRICAL CONTRACTOR MUST PROVIDE EMPTY CONDUIT SYSTEMS, RACEWAYS, JUNCTION BOXES, DEVICE BOXES AND OTHER COMPONENTS AS MAY BE NECESSARY TO SUPPORT BAY LOCK AND

SECURITY'S INSTALLATION. BAY LOCK AND SECURITY'S WORK WILL CONSIST OF, BUT MAY NOT

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BE LIMITED TO, THE FOLLOWING:

1. BUILDING AND DURESS ALARM SYSTEMS
   1. SUPPLY AND INSTALLATION OF ALL LOW VOLTAGE WIRING

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I TELEPHONE OUTLET

*{B* I INTERCOM HANDSET,

* 1. SUPPLY AND INSTALLATION OF DURESS PUSHBUTTONS, TEMPERATURE SENSORS AND ALARM SYSTEM HARDWARE.

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FIELD LOCATE.

c. SYSTEM PROGRAMMING, COMMISSIONING AND DEMONSTRATION.

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1. INTERVIEW ROOM CCTV/MIC SYSTEM

a. SUPPLY AND INSTALLATION OF ALL LOW VOLTAGE WIRING

b. SUPPLY AND INSTALLATION OF CAMERAS, MICS, RECORDING DEVICES AND SYSTEM HARDWARE

c. SYSTEM PROGRAMMING, COMMISSIONING AND DEMONSTRATION

.3. BUILDING AND CELL CCTV/MIC SYSTEM

1. SUPPLY AND INSTALLATION OF ALL LOW VOLTAGE WIRING
2. SUPPLY AND INSTALLATION OF CAMERAS, MICS, RECORDING DEVICES, EQUIPMENT RACK AND SYSTEM HARDWARE.

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**SECURITY/CAMERA SYSTEM NOTES**

c. SYSTEM PROGRAMMING, COMMISSIONING AND DEMONSTRATION

* 1. CARD ACCESS SYSTEM
     1. SUPPLY AND INSTALLATION OF ALL LOW VOLTAGE WIRING

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* 1. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL CONDUITS, JUNCTION BOXES, PULL BOXES AND OEVICE BOXES FOR THE NOTEO EQUIPMENT AND LOCATIONS.
  2. ELECTRICAL CONTRACTOR SHALL COORDINATE WORK WITH SECURITY CONTRACTOR FOR EXACT MOUNTING DETAILS.
  3. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL A 3/16" PULLCORD IN ALL CONDUITS FOR INSTALLATION OF CABLES BY THE SECURITY CONTRACTOR.

1. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL CONDUIT BETWEEN THE 40" MONITOR IN THE GENERAL OFFICE 102 TO THE DVR ROOM 111.
2. PROVIDE 2X 1OOMM CONDUIT BETWEEN TELEPHONE BOARD IN ROOM 118 AND TELEPHONE BOARD IN ROOM 111.
3. ALL CELL CAMERA CONDUITS SHALL BE STUBBED INTO CELL.
4. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL THE FOLLOWING DEVICE BOXES:
   1. INTERIOR & EXTERIOR CAMERAS (EXCLUDING CELL CAMERAS) - SINGLE-GANG BOX
   2. CELL CORNER-MOUNT CAMERAS - CONDUIT STUB ONLY. NO BOX.
   3. KEYPADS - SINGLE GANG BOX
   4. DURESS BUTTONS - SINGLE GANG BOX
   5. MICROPHONE TOGGLE SWITCH - SINGLE GANG BOX
   6. CEILING MICROPHONES - CONDUIT STUB ONLY. NO BOX.
   7. WALL MICROPHONE - SINGLE GANG BOX.
5. ALL CONDUIT SHALL BE EMT ANO ALL INTERIOR SURFACE BOXES SHALL BE CAST ALUMINUM. ALL JUNCTION BOXES SHALL BE STAMPED STEEL. NEMA 12. ALL CONDUITS SHALL BE EQUIPPED WITH PLASTIC BUSHINGS WITHIN BOXES AND ENCLOSURES.
   * 1. SUPPLY AND INSTALLATION OF CARD READERS, STRIKES, POWER SUPPLIES AND SYSTEM HARDWARE.

c. SYSTEM PROGRAMMING, COMMISSIONING AND DEMONSTRATION

* 1. IT WIRING

a. SUPPLY AND INSTALLATION OF CAT6 TELEPHONE AND DATA CABLING INCLUDING TERMINATIONS, COVER PLATES, LABELING AND CAT6 VERIFICATION.

b. SUPPLY AND INSTALLATION OF IT RACK INCLUDING CAT6 PATCH PANELS AND HORIZONTAL/VERTICAL CABLE MANAGERS.

c. INSTALLATION AND TERMINATION OF VOICE AND FIBRE RISER CABLES BETWEEN DVR ROOM AND MECHANICAL/SPRINKLER ROOM INCLUDING APPROPRIATE PATCH PANELS AND/OR BIX TERMINATIONS.

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**AGEngineering**

Thunder Bay Inc.

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*r* 14 St. Paul Street, Suite 201

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GAP

DEC 14 2021

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PROJECT TITLE DRAWING TITLE

**Nishnawbe Aski Police Service Systems Layout New Detachement Building**

Thunder Bay, Ontario, P?A 4S5 807 622 3554

DRAWING SCALE: As Noted

DATE ISSUED: December 2021

DRAWN BY: GAP

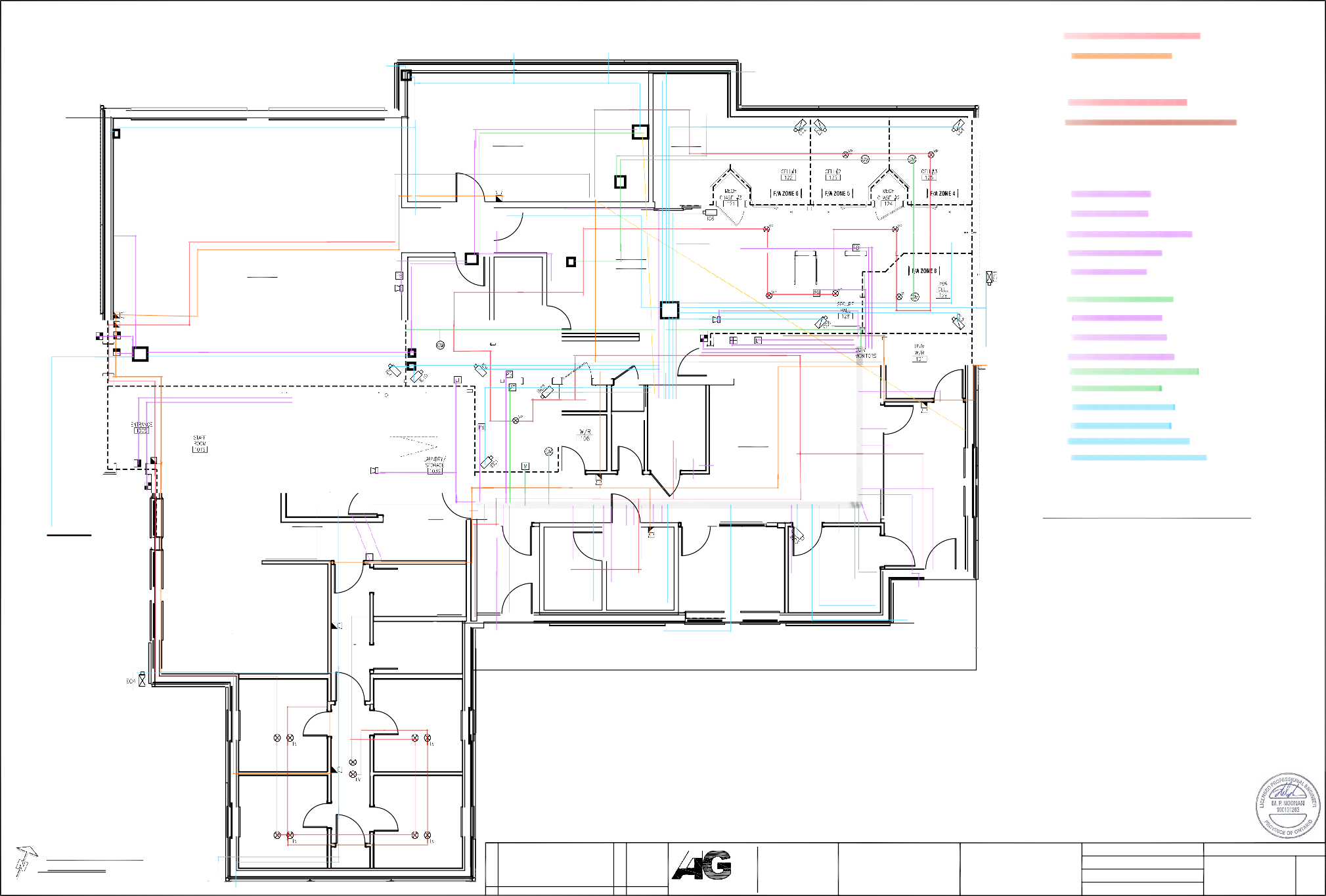
**DEC 14 2021**

PROJECT No. : **A104-21-003**

DRAWING No. REV No.

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No. DESCRIPTION

BY DATE

**Electrical Engineers**

www• .agp•eng.com

**Marten Falls First Nation**

APPROVED BY: MPN

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|  | 3/4"¢ | |
| 6Hx6" JUNCTION BOX | | 6I EMT |
|  | 3/4"; IEMT  6 | |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| GUARD SECURE  ------------------------------7 FIRE ALARM **PANEL** NOTES, AREA **HALL** #1  ZONE 1 - STAFF ROOM / REST ROOMS i 1. REFER TO PLANS FOR QUANTITIES AND LOCATIONS OF 132 119  2-STAGE ------------------------------ **DETECTION** AND SIGNALING DEVICES. '1 Wr  ADDRESSABLE ZONE 2 - OFFICE AREA i 2. ALL FIRE ALARM DEVICES SHALL BE ADDRESSABLE.  DEDICATED - FIRE ALARM ------------------------------ 3. ALL DETECTION DEVICES SHALL BE WIRED AS CLASS 'A'.  CIRCUIT PANEL ZONE 3 - MECHANICAL/ELECTRICAL ROOM i 1/2"¢ Ul L1/2"¢  ------------------------------1 4. ALL SIGNALING DEVICES SHALL BE WIRED AS CLASS 'A'. EMT EMT  ZONE 4 - CELL #1 i 5. THE AUTOMATIC SPRINKLER SYSTEM SHALL BE EQUIPPED  ------------------------------ WITH TAMPER, WATERFLOW AND PRESSURE DETECTING  REMOTE ZONE 5 - CELL #2 I DEVICES FOR EACH SPRINKLER ZONE AND SHALL BE SECURE SALLY SALLY  1  ANNUNCIATOR ------------------------------: MONITORED BY THE FIRE ALARM CONTROL PANEL. HALL #2 **PORT** PORT ZONE 6 - CELL #3 i COORDINATE W/ **MECHANICAL** AND **SPRINKLER** DRAWINGS. 112 117 117  FIRE DEPT­ ------------------------------1 MAKE CONNECTIONS TO **ALL** DITECTION DEVICES. ' !EID B [EID  **CONNECTION** ZONE 7 - BULL PEN i 6. FIRE ALARM ZONE REQUIREMENTS MAY CHANGE AS A D3 D4 DS I 3/4"¢  ------------------------------ RESULT OF SPRINKLER SYSTEM DESIGN. ELECTRICAL t 3/4"¢ t 1/2"¢ 1/2"¢ **EMT**  ZONE 8 - YOA CELL i 6 IRCl  ------------------------------: CONTRACTOR TO COORDINATE W/ SPRINKLER INSTALLER. **EMT EMT EMT** PTZ ZONE 9 - SALLY PORT I 7. PROVIDE SIGNAL **BOOSTERS** AND **ISOLATION** MODULES AS  ------------------------------1I REQUIRED TO MEET APPLICABLE CODES AND FOR A **HARD INTERVIEW**  ZONE 10 - INMATE AREA i COMPLETE WORKING SYSTEM. SECURE SECURE I 3/4"¢ r\ **ROOM 115**  ------------------------------ 8. PROVIDE GENERATOR "RUN" AND GENERATOR "TROUBLE" HALL #3 HALL #3 1/2"0 **EMT** I.T. 6"x6" 6 EMT LJ IRC2 PROVIDE 3x NORMALLY CLOSED SIGNALS TO FIRE ALARM SYSTEM FROM NEW GENERATOR ALARM 126 126 CELL# 1 122 ROOM JUNCTION  RELAY -- DRY CONTACTS FOR TIE-IN TO SET. EACH CONDITION SHALL REGISTER A SEPARATE **CABINET** 111 BOX  BUILDING SECURITY SYSTEM. TROUBLE SIGNAL ON THE FIRE ALARM SYSTEM. SURFACE ? ? 0HC CELL#2 123 r3/4"¢ 3/4"¢ 1/2"¢  L1/2"¢ **EMT L1/2"¢** 1"¢ EMT EMT EMT EMT  MECHANICAL/ TO GUARD AREA 6 --4----0c CELL#3 125  **ATf---,'>------,Mf---<0 {(C**  **EMT** ROUTE CONDUIT  **FIRE ALARM RISER** SPRINKLER SECURE HARD 132 DESK, ROOM 118 HALL #2 INTERVIEW FIELD LOCATE.  NOT **TO** SCALE 112 115 BULLPEN 120  ' ? t !EID 3/4"¢  09 Y.O. CELL 129 6I EMT IRC3  L11r• 1/2"¢ **PTZ**  [] ELECTRIC EMT EMT GENERAL SOFT  STRIKE **WAITING AREA 100** OFFICE **INTERVIEW** 3/4"0 **SOFT INTERVIEW**  3/4"¢ 3/4"¢ EMT **ENTRANCE DOOR** 10t2 103 3/4\;i EMT I.T. 6"x6" 6I EMT **L**r\**J ROOM 103**  *[* EMT CARD ALARM EC2 ROOM JUNCTION IRC4  ACCESS CABINET !EDID10 D!E7ID1 111 BOX JUNCTION BOX 3/4"¢ EMT !Cl  t1/2"¢ 1/2"¢ 6 CJ, 3/4"¢ 3/4"¢ 1/2"¢  ELECTRIC **EMT** ORV ROOM EMT **EMT** '  [] STRIKE 111 *[* EMT EMT EMT  **WAITING AREA 100 TO**  ATf---,'>------,Mf---<0 {(C  3/4"0 3/4"¢ EMT 3/4"¢ EMT- IC3  *[* **EMT** CARD **GENERAL OFFICE 102** D  **ACCESS** NOTE: 3/4"¢ EMT I  PRIOR TO ROUGH-IN. MAKE ADJUSTMENTS AS NECESSARY 6 JUNC D r\  JUNCTION BOX CONFIRM CONDUIT ROUTING **WITH** SECURITY CONTRACTOR 61-1/4"0 EMT IC4 3/4"0  TO FACILITATE SECURITY DEVICES/COMPONENT INSTALLATION. BOX 6I EMT LJ  [] ELECTRIC IC2 IC9  STRIKE **GENERAL OFFICE 102**  3/4"¢ 3/4"¢ EMT **TO HALLWAY #2112** 3/4"¢ EMT **FINGERPRINT** &  *[* **EMT** CARD **DURESS ALARM RISER**  ACCESS I.T. r\ **BREATH ROOM 116**  JUNCTION BOX NOT TO SCALE 3/4"¢ EMT ROOM **LJ** IClO  111  CC!  [] ELECTRIC 1"¢ EMT CC2 1/2"0  STRIKE **DVR ROOM 111 DOOR**  6 JUNC ,; · 3/4"¢ 3/4"¢ EMT BOX CC3 [ffi---B @  *[* EMT CARD  **ACCESS** r=-------r------1 CC4  JUNCTION BOX I EXTERIOR 1/2"¢ I 3/4"¢ EMT NOTE,  [] ELECTRIC I EMT I 1"¢ EMT JUNC ccs CONFIRM CONDUIT ROUTING WITH SECURITY CONTRACTOR STRIKE **ENTRANCE 100S**  6 BOX PRIOR TO ROUGH-IN. MAKE ADJUSTMENTS AS NECESSARY  3/4"¢ 3/4"0 EMT 13/4"¢ FUERANK FUERANK : CC6 TO FACILITATE SECURITY DEVICES/COMPONENT INSTALLATION.  *[* **EMT** CARD **ENTRANCE DOOR EMT** FT-1 FT-1 I  ACCESS FUEL MONITORING I  JUNCTION BOX **(LOW** FUEL) I 3/4"¢ EMT **INTERVIEW & BREATH ROOMS CCTV/MIC RISERS**  L\_ J  1"¢ EMT  r ELECTRIC 6 ,J:;;U;::NC::7--e-tPICS NOT TO SCALE  [] STRIKE **SALLY PORT 117** ,:--------------7 BOX  **ENTRANCE DOOR** I STAFF ROOM 101S 1/2"¢ c ,y ;.,IC6 3/4"¢ 3/4"¢ EMT l I I EMT I r  MECH/ 10"x10" *[* EMT CARD  **SPRINKLER** JUNCTION ACCESS :9 El36 [fl:  ROOM 118 BOX JUNCTION BOX I L 3/4"0 **KEYPAD LOW** TEMP I 3/4"¢ EMT  L EMT ALARM J ROOM JUNCTION 6 CJ, JCS  DVR 12"x12"  l [] ELECTRIC 111 BOX , 7  STRIKE **HALLWAY #1119**  3/4"0 3/4"0 EMT **TO SALLY PORT 117** ,:--------------7 3/4"¢ EMT I **EXHIBIT** ROOM r7 I  *[* **EMT** CARD MECHANICAL/ DVR 1 GENERAL OFFICE 102 .. l ,.----,:,-J:8;}:, EC1 I 105 LJ I  ROOM I I 112 0 I  ACCESS SPRINKLER 111 EMT 1 EMT I IC11 I  JUNCTION BOX ROOM 11r8 I 9 El3 6 [fl I "¢ ,J:;;U;::NC'."f-e-[2JJ EC12 J  I L I 6 I I  ELECTRIC ALARM ALARM I 3/4"¢ KEYPAD LOW TEMP I LB:'.:O'.'..X,..f-'?-[2JJEC13  [] STRIKE CABINET 1 "¢ EMT CABINET L EMT ALARM J II 3/4"0 1/2"¢ 1/2''• II  **EXHIBIT ROOM 105 DOOR** Y'>-j:8;J::,EC14 I **EMT EMT** I **EMT** I  3/4"¢ 3/4"¢ EMT (SURFACE (SURFACE **r-------,** 9 Qfil PIR 6 iQg I  *[* EMT CARD 10"x14" 1o"x14" 3/4"¢ EMT ORV ROOM **111**  ACCESS JUNCTION JUNCTION !ROOM 116 ---- --7 1"¢ EMT **L3/4"¢** JUNCTION CEILING KEYPAD DOOR I  JUNCTION BOX BOX) BOX) I I 6 ,J-U-NC7-A-l"x'hEC3 I EMT BOX MOUNT CONTACT I  I r;,1 I LB:'.:O'.'..X\_!-0- JJEC4 1O"x10" I MOTION I  ELECTRIC l t.lc!J CCTV L SENSOR [] STRIKE II 3/4"¢ LOW TEMP II UNDER  **GUN VAULT 106 DOOR** CABINET  3/4"0 3/4"¢ EMT L EMT ALARM \_J 3/4"¢ EMT  *[* **EMT** CARD  **ACCESS** 611"¢ EMT JUNC ECS , 7  JUNCTION BOX !SALLY-PORT 117- - - - 7 BOX EC6 I GUN **VAULT** r7 I  I I **EMT** I 106 LJ I  0---3/4"¢  [] ELECTRIC I l r;,1 I r I IC12 I  STRIKE **HALLWAY #5109** I t.lc!J I I I  *[* EMT **TO HALLWAY #3104S** EMT ALARM 61"0 EMT 1 EC7 I 3/4"¢ 1/2"¢ 1/2"0 I  3/4"¢ 3/4"¢ EMT I 3/4"¢ LOW TEMP I 3/4"¢ EMT 1 "0  CARD L \_J ALARM **EMT** ALARM II I  ACCESS CABINET CABINET EMT EMT I EMT I  JUNCTION BOX ECB 9 JBf-E>----{IPIR)-B---tt, 6 iQg I  rI G:EN:ER-A-L O-F-FIC-E -1-02--7 EC9 **L3/4"¢** JUNCTION CEILING KEYPAD DOOR I  [] ELECTRIC MECHANICAL/ L \_J I **EMT** BOX **MOUNT** CONTACT 1  STRIKE **MUDROOM 107** : ,,,,+RADIO **EQUIPMENT** LINK, 3/4"¢ EMT SPRINKLER I **MOTION** I  3/4"¢ 3/4"¢ EMT **ENTRANCE DOOR** I l\_ / "¢ LJ' I STANDARD 2, 4" BOX 1"¢ EMT IJ:;;U:::Nc::7-&--C2JJ EC10 ROOM 118 L SENSOR  *[* **EMT** CARD 3 4 6  JUNCTION BOX **ACCESS** IL EMT I LB:'.:O'.'.\_X\_!-0-[8JJ EC11  \_J  NOTE: NOTE: NOTE: NOTE:  CONFIRM CONDUIT ROUTING WITH SECURITY CONTRACTOR CONFIRM CONDUIT ROUTING WITH SECURITY CONTRACTOR CONFIRM CONDUIT ROUTING **WITH** SECURITY CONTRACTOR CONFIRM CONDUIT ROUTING WITH SECURITY CONTRACTOR PRIOR TO ROUGH-IN. MAKE ADJUSTMENTS AS NECESSARY PRIOR TO ROUGH-IN. MAKE ADJUSTMENTS AS NECESSARY PRIOR TO ROUGH-IN. MAKE ADJUSTMENTS AS NECESSARY PRIOR TO ROUGH-IN. MAKE ADJUSTMENTS AS NECESSARY TO FACILITATE SECURITY DEVICES/COMPONENT INSTALLATION. TO **FACILITATE** SECURITY DEVICES/COMPONENT **INSTALLATION.** TO FACILITATE SECURITY DEVICES/COMPONENT INSTALLATION. TO **FACILITATE** SECURITY DEVICES/COMPONENT **INSTALLATION.**  **CARD ACCESS SYSTEM RISER BUILDING ALARMS RISER CAMERA/MIC SYSTEM RISER EXHIBIT & GUN VAULT CCTV *I* ALARM RISER**  DEC 14 2021  NOT TO SCALE NOT TO SCALE NOT TO SCALE NOT TO SCALE | | | | | | | | | | |
|  | 0 | ISSUED FOR TENDER | GAP | DEC 14 2021 | ***r*** - **AGEngineering**  Thunder Bay Inc.  14 St. Paul Street, Suite 201 Thunder Bay, Ontario, P7A 4S5  **Electrical Engineers** 807.622.3654  [www.agpeng.com](http://www.agpeng.com/) | PROJECT TITLE  **Nishnawbe Aski Police Service New Detachement Building Marten Falls First Nation** | DRAWING TITLE  **Systems Riser Diagrams** | DRAWING SCALE: As Noted | PROJECT No. : **A104-21-003** | |
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| No. | DESCRIPTION | BY | DATE |