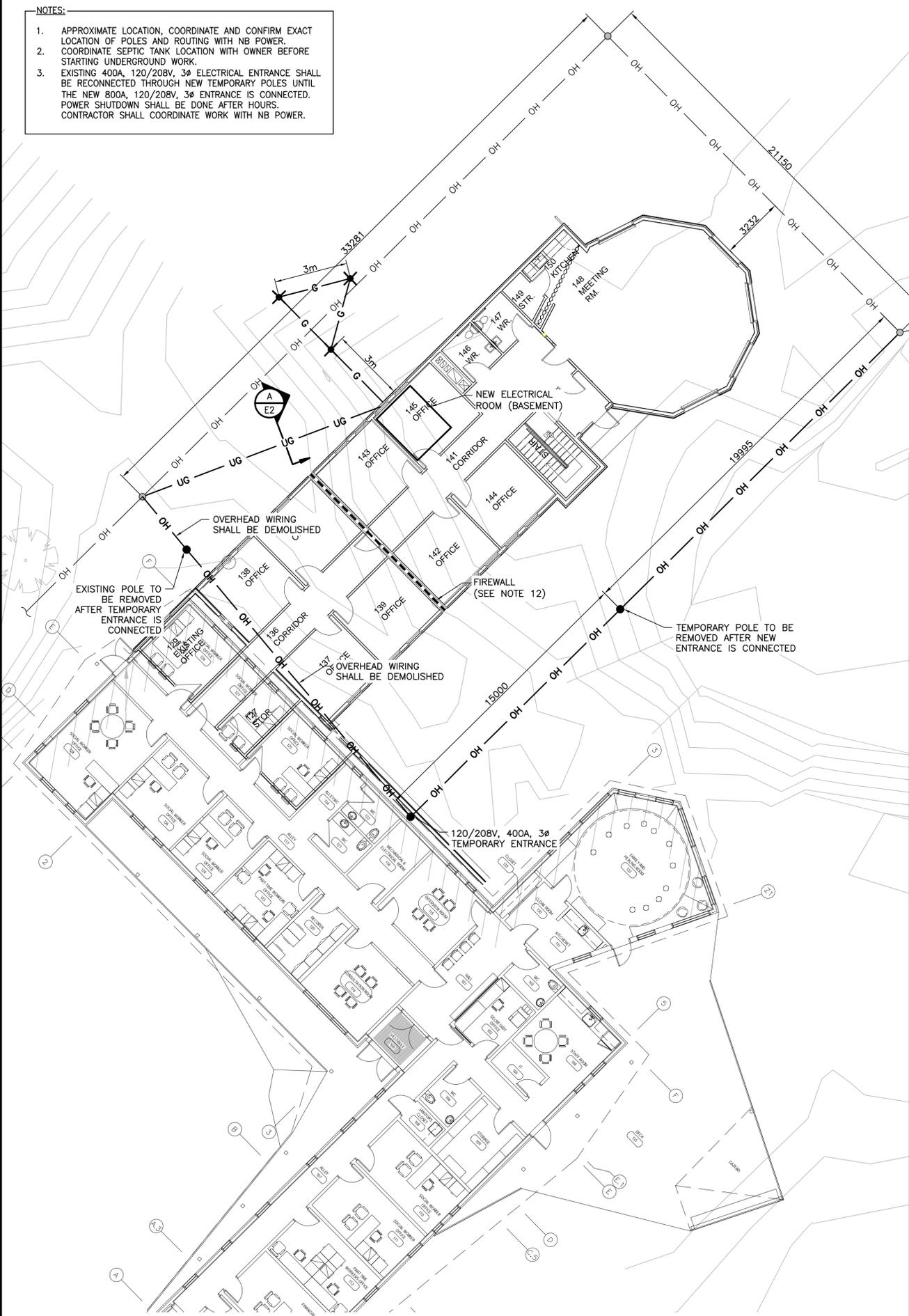


- NOTES:**
- APPROXIMATE LOCATION, COORDINATE AND CONFIRM EXACT LOCATION OF POLES AND ROUTING WITH NB POWER.
  - COORDINATE SEPTIC TANK LOCATION WITH OWNER BEFORE STARTING UNDERGROUND WORK.
  - EXISTING 400A, 120/208V, 3Ø ELECTRICAL ENTRANCE SHALL BE RECONNECTED THROUGH NEW TEMPORARY POLES UNTIL THE NEW 800A, 120/208V, 3Ø ENTRANCE IS CONNECTED. POWER SHUTDOWN SHALL BE DONE AFTER HOURS. CONTRACTOR SHALL COORDINATE WORK WITH NB POWER.

- GENERAL NOTES:**
- THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL LOCATIONS FOR ELECTRICAL EQUIPMENT. THE CONTRACTOR SHALL VERIFY ALL EQUIPMENT LOCATIONS ON-SITE PRIOR TO INSTALLATION AND SHALL COORDINATE LOCATIONS SO AS NOT TO CAUSE INTERFERENCE WITH THE WORK OF OTHER TRADES.
  - THE CONTRACTOR IS RESPONSIBLE TO VISIT THE JOB SITE TO VERIFY ALL EXISTING CONDITIONS WHICH COULD AFFECT THE WORK. NO EXTRA COST WILL BE ALLOWED DUE TO FAILURE TO TAKE SITE CONDITIONS INTO CONSIDERATION. BE FAMILIAR WITH ALL RELATED WORK TO AVOID CONFLICTS WITH OTHER TRADES. IF THERE IS ANY CONFLICTS, REPORT TO THE CONSULTANT.
  - THIS CONTRACTOR SHALL COORDINATE ALL FLOOR, CEILING AND WALL PENETRATION WITH THE GENERAL CONTRACTOR AND/OR OWNER PRIOR TO CUTTING.
  - THIS CONTRACTOR IS RESPONSIBLE TO RELOCATE ANY ELECTRICAL EQUIPMENT THAT COULD INTERFERE WITH THIS WORK AND WORK OF OTHER TRADES. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE CLOSELY WITH OTHER TRADES AND BE FAMILIAR WITH THE EXISTING INSTALLATION PRIOR TO TENDER CLOSING. NO EXTRA ALLOWANCE WILL BE ALLOWED FOR THE RELOCATION OF ELECTRICAL SERVICES IN ORDER TO ACCOMMODATE OTHER TRADES.
  - THE REMOVAL AND INSTALLATION OF CEILING TILES SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
  - ALL CUTTING, PATCHING, CORE DRILLING AND FIRE STOPPING SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
  - THE CONTRACTOR SHALL MAINTAIN INTEGRITY OF FIRE SEPARATION AT ALL FIRE SEPARATION. COORDINATE ALL RELATED WORK WITH THE GENERAL CONTRACTOR.
  - ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS AND THEIR AMENDMENTS, IN A MANNER WITH GOOD WORKMANSHIP. REVIEW MECHANICAL DRAWINGS AND COORDINATE TESTING OF NEW INSTALLATION.
  - ALL NEW MATERIAL SUPPLIED SHALL BE NEW AND CARRY CSA OR ULC CERTIFICATION.
  - ALL WIRES AND CONDUITS SIZES ARE BASED ON THE 75°C COLUMN RATING OF THE 2018 EDITION OF THE CSA CANADIAN ELECTRICAL CODE C22.1-2018. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO ENSURE THAT ALL CABLE TERMINATION POINTS OF THE ASSOCIATED ELECTRICAL SUPPLIED EQUIPMENT BE RATED AT NO LESS THAN 75°C. IN THE EVENT THAT AN EQUIPMENT IS SUPPLIED WITH TERMINATION POINTS RATED BELOW 75°C, IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO SUPPLY AND INSTALL APPROPRIATE WIRES AND CONDUITS AS PER CODE REQUIREMENTS.
  - REFER TO ARCHITECTURAL DRAWING FOR LOCATION OF FIRE RATED WALLS AND THEIR RATING. ALL CABLES ROUTED THROUGH FIREWALL MUST BE DONE THROUGH METAL RACEWAY.



**SITE PLAN**  
SCALE: 1:125

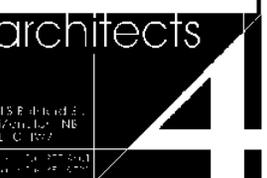
**ELECTRICAL LEGEND**

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	HOME RUN AC WIRING (#12 AWG RW90 CU MIN.)		WALL MOUNTED COMMUNICATION RACK C - INDICATES COMMUNICATION
	GROUND WIRING		SINGLE PHASE ELECTRIC MOTOR F - INDICATES FAN
	UNDERGROUND WIRING		ELECTRIC BASEBOARD HEATER A - INDICATES TYPE (SEE SCHEDULE)
	OVERHEAD WIRING		ELECTRIC DUCT HEATER (BY DIV.23, WIRED BY DIV.26) 1 - INDICATES TYPE (SEE SCHEDULE)
	UTILITY POLE		SURFACE MOUNTED ELECTRIC FORCED AIR HEATER A - INDICATES TYPE (SEE SCHEDULE)
	THERMIT GROUND WELD TO 19x3000mm COPPER CLAD GROUND ROD		ELECTRIC CEILING FORCED AIR HEATER A - INDICATES TYPE (SEE SCHEDULE)
	EXISTING/PROPOSED CEILING MOUNTED LUMINAIRE A - INDICATES TYPE (SEE SCHEDULE)		MOTORIZED DAMPER (BY DIV.23) # - INDICATES MECHANICAL EQUIPMENT NUMBER
	EXISTING/PROPOSED CEILING MOUNTED LUMINAIRE		LOW VOLTAGE THERMOSTAT (BY DIV.23)
	WALL MOUNTED LUMINAIRE		24V RELAY/TRANSFORMER FOR HEATERS (BY DIV.25)
	LUMINAIRE STRIP		TEMPERATURE SENSOR (BY DIV.23)
	DIMMER SWITCH		120V/BATTERY SMOKE ALARM DETECTOR, KIDDE #900-0252 OR APPROVED EQUAL
	O.S. - INDICATES OCCUPANCY SENSOR SWITCH 0-10V DIMMER SENSOR, COOPER #OSW-D-010-W OR APPROVED EQUAL.		SECURITY ALARM MOTION DETECTOR, PARADOX #525DM OR APPROVED EQUAL
	SINGLE-POLE LIGHT SWITCH		SECURITY DOOR CONTACT, GE MAGNETIC CONTACTS #1078W OR APPROVED EQUAL
	VC - INDICATES VACANCY SENSOR SWITCH WITH DUAL TECHNOLOGY (PIR & MICROPHONICS).		CCTV CAMERA, WATCHNET #MP1X-30VDF-IR
	LUTRON #MS-OPS6M2-DV-WH OR APPROVED EQUAL 3 - INDICATES THREE-WAY SWITCH		FLAT SCREEN MONITOR (BY OWNER)
	CEILING MOUNTED EXIT SIGN,		AUDIO SPEAKER, CEILING MOUNTED (SEE DETAIL)
	AIMLITE #RPAW-1-M-WHT-BAT OR APPROVED EQUAL - - DIRECTION AS INDICATED ON DRAWINGS		MULTIMEDIA OUTLET # - INDICATES NUMBER OF DROPS
	WALL MOUNTED EXIT SIGN		HP RATED TOGGLE DISCONNECT SWITCH
	EMERGENCY BATTERY PACK DUAL HEAD LIGHTING UNIT A - AIMLITE #EBQV-12072-2-6WLA-WHT-ATD B - AIMLITE #EBQV-12050-2-6WLA-WHT-ATD		DOMESTIC HOT WATER TANK
	EMERGENCY DUAL REMOTE HEAD LIGHTING UNIT, AIMLITE #RMQVD-1-12-6W-LA-WHT OR APPROVED EQUAL		DISCONNECT SWITCH # - INDICATES DISCONNECT SIZE F - INDICATES FUSE SIZE
	EMERGENCY REMOTE HEAD LIGHTING UNIT, AIMLITE #RMQV-1-12-6W-LA-WHT OR APPROVED EQUAL		6x50x610mm COPPER CLAD WALL MOUNTED GROUND BUS
	PHOTOCELL CONTROL, INTERMATIC #EK4436SM OR APPROVED EQUAL		UTILITY METER SOCKET
	15A/125V, 5-15R DUPLEX U-GROUND RECEPTACLE		TEL. BACKBOARD DEMARCATION POINT BIX PANEL
	GFR - INDICATES GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE		SURFACE MOUNTED ELECTRICAL PANELBOARD
	O.C. - INDICATES 150mm OVER BACKSPLASH		RECESS MOUNTED ELECTRICAL PANELBOARD
	W.P. - INDICATES WEATHERPROOF COVER		EQUIPMENT SHALL BE RELOCATED TO SHOWN LOCATION WITH INDICATED CIRCUIT
	TVSS - INDICATES TVSS PROTECTED RECEPTACLE		RELOCATED EQUIPMENT AT NEW LOCATION
	20A/125V, 5-20R DUPLEX RECEPTACLE		EQUIPMENT RECONNECTED TO EXISTING ROOM CIRCUIT
	TWO 15A/125V, 5-15R DUPLEX U-GROUND RECEPTACLE IN COMMON COVER PLATE		
	POWER RECEPTACLE S - INDICATES 50A/250V, 14-50R STOVE RECEPT.		
	DIRECT CONNECTION		
	COMBINATION POWER/DATA MOUNTED IN 1HR FIRE RATED FLOOR BOX # - INDICATES NUMBER OF DROPS		
	WIRELESS DATA ACCESS POINT (BY OWNER)		
	COMBINED TELEPHONE/DATA OUTLET ## - FIRST NUMBER INDICATES NUMBER OF TELEPHONE DROPS, SECOND NUMBER INDICATES NUMBER OF DATA DROPS		
	DATA OUTLET # - INDICATES NUMBER OF DROPS		

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0	ISSUED FOR TENDER	2022/02/25
C	ISSUED FOR 99% REVIEW	2022/02/04
B	ISSUED FOR COORDINATION	2022/01/28
A	ISSUED FOR COORDINATION	2021/12/17
NO.	REVISION	DATE

A	DETAIL NUMBER
B	REFERENCE DWG NO.
C	DETAIL DWG NO.

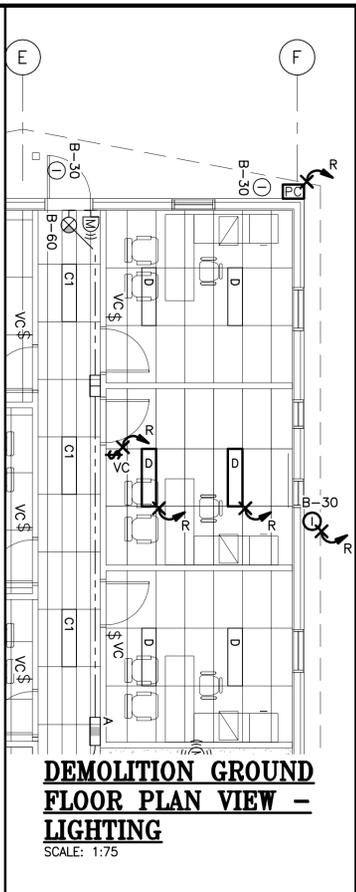
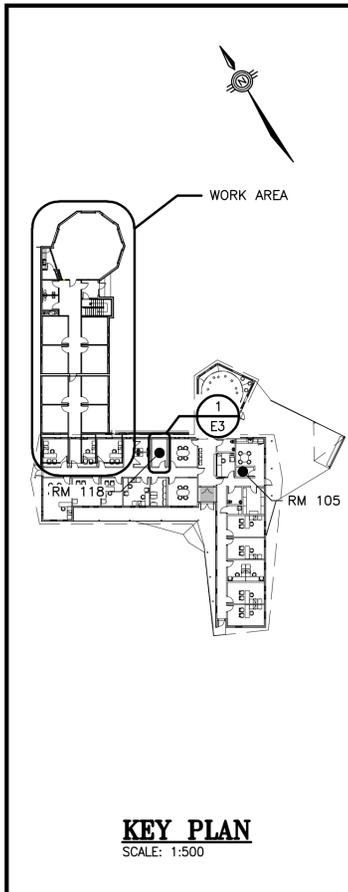


**TCFSA Administration Building Addition**

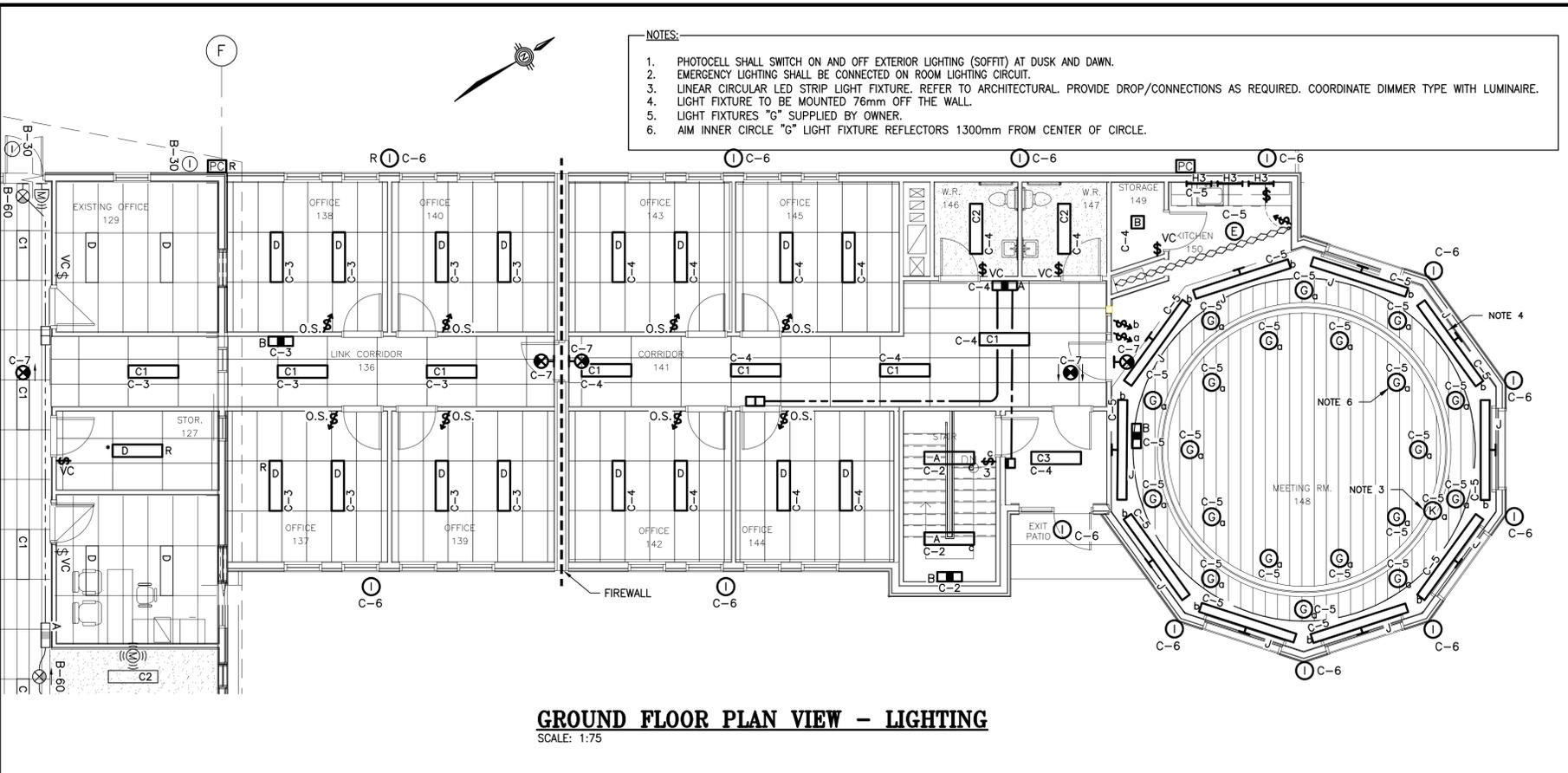
Tobique First Nation, NB

- ELECTRICAL -  
SITE PLAN & LEGEND

SCALE: AS SHOWN  
October, 2021

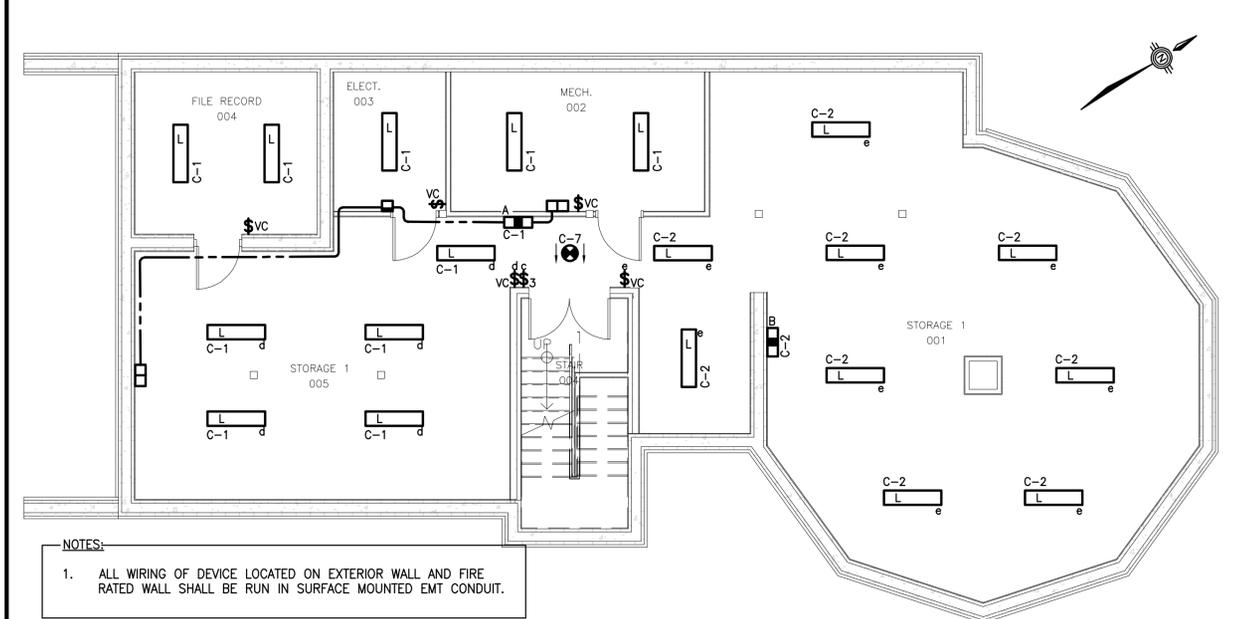


**DEMOLITION GROUND FLOOR PLAN VIEW - LIGHTING**  
SCALE: 1:75



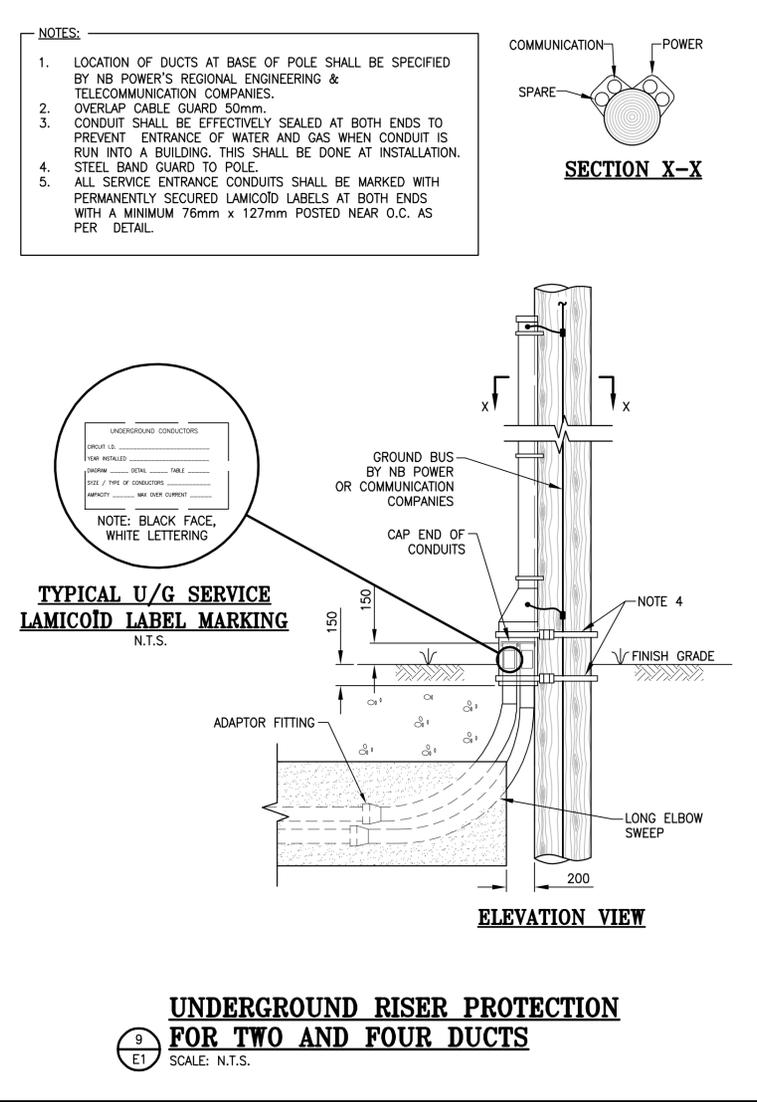
**GROUND FLOOR PLAN VIEW - LIGHTING**  
SCALE: 1:75

- NOTES:**
1. PHOTOCELL SHALL SWITCH ON AND OFF EXTERIOR LIGHTING (SOFFIT) AT DUSK AND DAWN.
  2. EMERGENCY LIGHTING SHALL BE CONNECTED ON ROOM LIGHTING CIRCUIT.
  3. LINEAR CIRCULAR LED STRIP LIGHT FIXTURE. REFER TO ARCHITECTURAL. PROVIDE DROP/CONNECTIONS AS REQUIRED. COORDINATE DIMMER TYPE WITH LUMINAIRE.
  4. LIGHT FIXTURE TO BE MOUNTED 76mm OFF THE WALL.
  5. LIGHT FIXTURES "G" SUPPLIED BY OWNER.
  6. AIM INNER CIRCLE "G" LIGHT FIXTURE REFLECTORS 1300mm FROM CENTER OF CIRCLE.



**BASEMENT FLOOR PLAN VIEW - LIGHTING**  
SCALE: 1:75

- NOTES:**
1. ALL WIRING OF DEVICE LOCATED ON EXTERIOR WALL AND FIRE RATED WALL SHALL BE RUN IN SURFACE MOUNTED EMT CONDUIT.



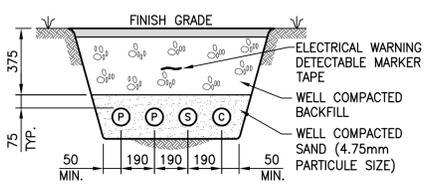
**TYPICAL U/G SERVICE LAMICOID LABEL MARKING**  
N.T.S.

**ELEVATION VIEW**

**UNDERGROUND RISER PROTECTION FOR TWO AND FOUR DUCTS**  
SCALE: N.T.S.

- NOTES:**
- P = POWER, 4C#750 MCM RW90-AL IN 103mm RIGID PVC CONDUIT.  
 C = COMMUNICATION, 50 PAIRS CAT#3, 25 PAIRS CAT#3 AND FIBER OPTIC CABLE IN 103mm RIGID PVC CONDUIT.  
 S = SPARE, 103mm RIGID PVC CONDUIT.
1. 6mm NYLON ROPE OR EQUIVALENT SHALL BE INSTALLED AND SECURED IN EACH CONDUIT.
  2. ALL DUCTS SHALL BE PROPERLY IDENTIFIED AT BOTH ENDS WITH LAMICOID PLATES.
  3. BACKFILL PARTICLES SHALL BE LESS THAN 38mm AND BACKFILL SHALL BE COMPACTED TO AT LEAST 95% MAXIMUM DENSITY TO ASTM D698.
  4. ELECTRICAL WARNING DETECTABLE MARKER TAPE SHALL BE AS PER PANDUIT #HTDU 75mm WIDE.
  5. WATERTIGHT SEAL CONDUIT BUILDING PENETRATION AND INSTALL CONDUIT SLOPPED DOWNWARD FROM BUILDING.

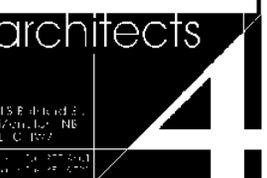
**TRENCH DETAIL**  
SCALE: 1:20



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NO.	REVISION	DATE
0	ISSUED FOR TENDER	2022/02/25
C	ISSUED FOR 99% REVIEW	2022/02/04
B	ISSUED FOR COORDINATION	2022/01/28
A	ISSUED FOR COORDINATION	2021/12/17

Letter	Description
A	DETAIL NUMBER
B	REFERENCE DWG NO.
C	DETAIL DWG NO.

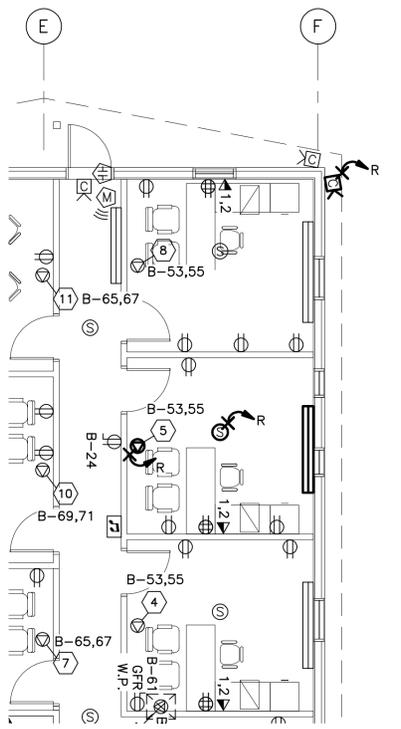


**TCFSA Administration Building Addition**  
 Tobique First Nation, NB

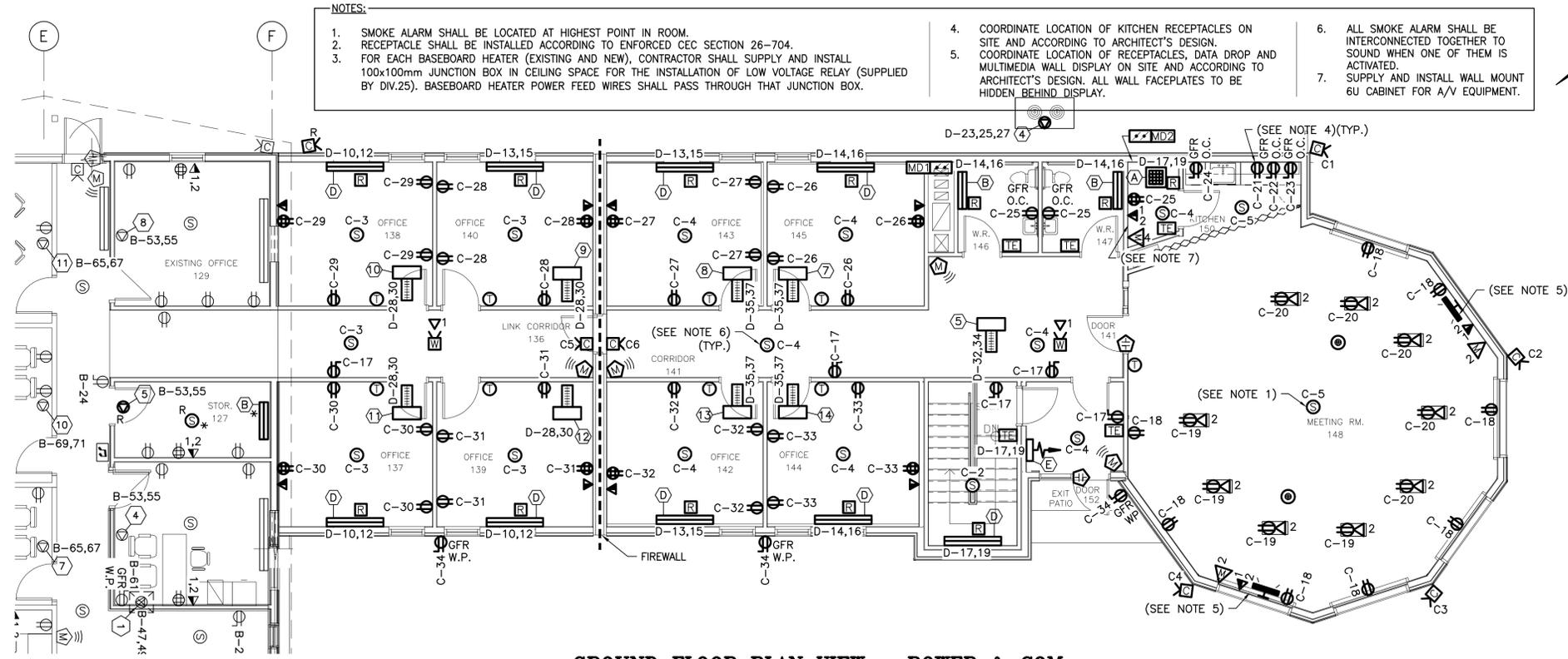
- ELECTRICAL -  
 LIGHTING PLAN VIEWS & DETAILS

SCALE: AS SHOWN  
 October, 2021

PLOT DATE: 2022-02-25



**DEMOLITION GROUND FLOOR  
PLAN VIEW - POWER & COM.**  
SCALE: 1:75



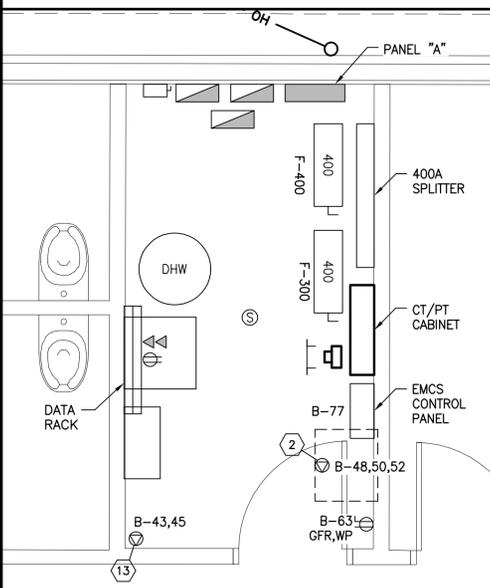
**GROUND FLOOR PLAN VIEW - POWER & COM.**  
SCALE: 1:75

- NOTES:
- SMOKE ALARM SHALL BE LOCATED AT HIGHEST POINT IN ROOM.
  - RECEPTACLE SHALL BE INSTALLED ACCORDING TO ENFORCED CEC SECTION 26-704.
  - FOR EACH BASEBOARD HEATER (EXISTING AND NEW), CONTRACTOR SHALL SUPPLY AND INSTALL 100x100mm JUNCTION BOX IN CEILING SPACE FOR THE INSTALLATION OF LOW VOLTAGE RELAY (SUPPLIED BY DIV.25). BASEBOARD HEATER POWER FEED WIRES SHALL PASS THROUGH THAT JUNCTION BOX.
  - COORDINATE LOCATION OF KITCHEN RECEPTACLES ON SITE AND ACCORDING TO ARCHITECT'S DESIGN.
  - COORDINATE LOCATION OF RECEPTACLES, DATA DROP AND MULTIMEDIA WALL DISPLAY ON SITE AND ACCORDING TO ARCHITECT'S DESIGN. ALL WALL FACEPLATES TO BE HIDDEN BEHIND DISPLAY.
  - ALL SMOKE ALARM SHALL BE INTERCONNECTED TOGETHER TO SOUND WHEN ONE OF THEM IS ACTIVATED.
  - SUPPLY AND INSTALL WALL MOUNT 6U CABINET FOR A/V EQUIPMENT.

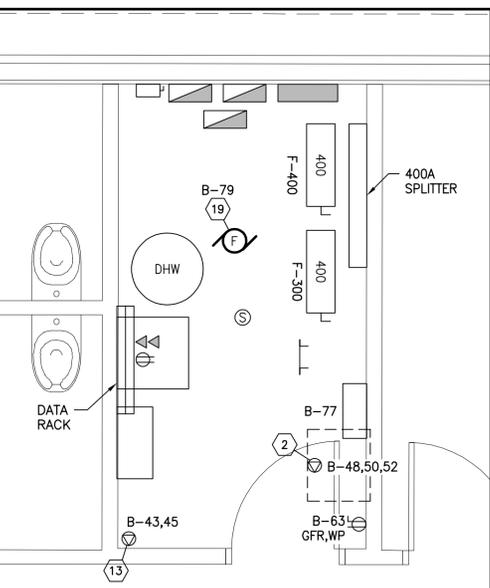
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0	ISSUED FOR TENDER	2022/02/25
C	ISSUED FOR 99% REVIEW	2022/02/04
B	ISSUED FOR COORDINATION	2022/01/28
A	ISSUED FOR COORDINATION	2021/12/17
NO.	REVISION	DATE

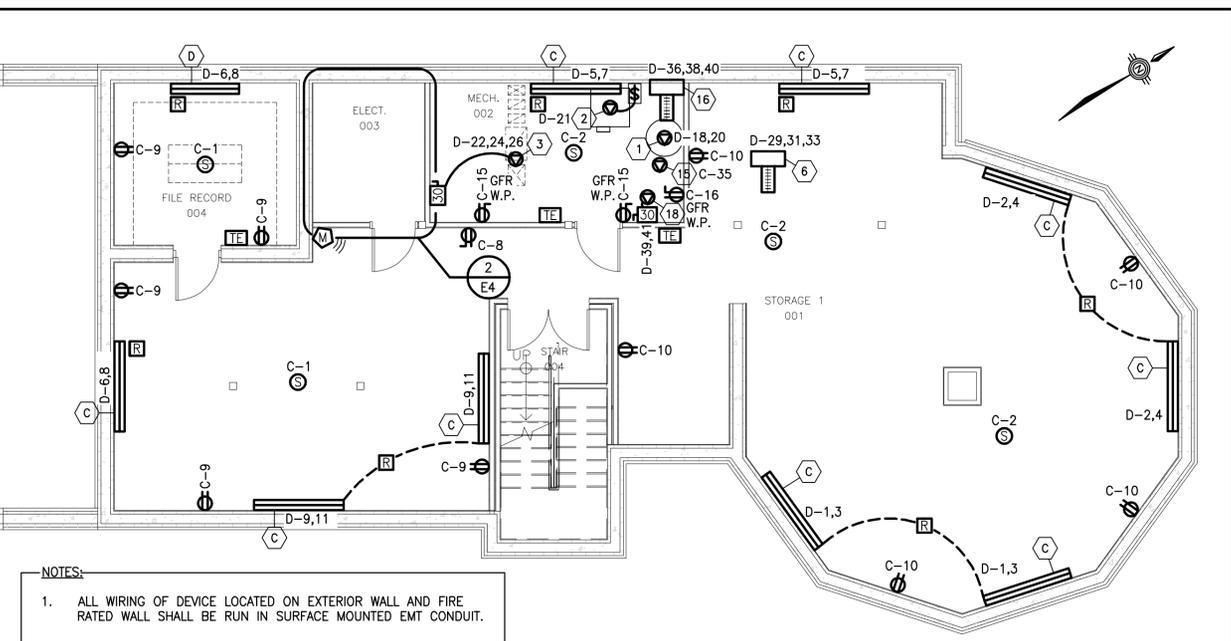
- A DETAIL NUMBER  
B REFERENCE DWG NO.  
C DETAIL DWG NO.



**DEMOLITION EXISTING MECHANICAL & ELECTRICAL ROOM 118**  
SCALE: 1:30

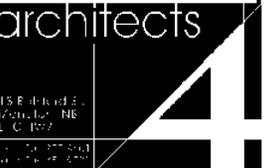


**EXISTING MECHANICAL & ELECTRICAL ROOM 118**  
SCALE: 1:30



**BASEMENT FLOOR PLAN VIEW - POWER & COM.**  
SCALE: 1:75

- NOTES:
- ALL WIRING OF DEVICE LOCATED ON EXTERIOR WALL AND FIRE RATED WALL SHALL BE RUN IN SURFACE MOUNTED EMT CONDUIT.

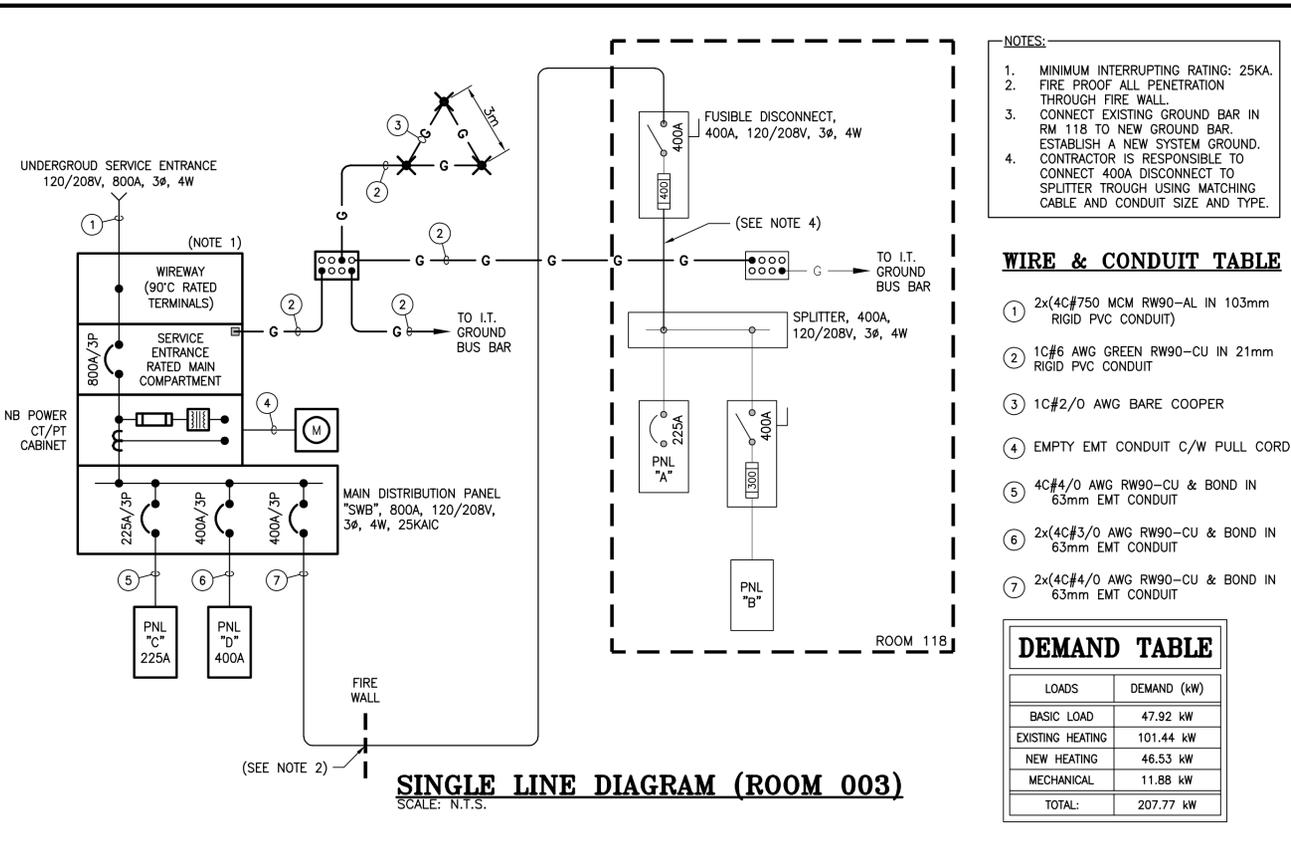
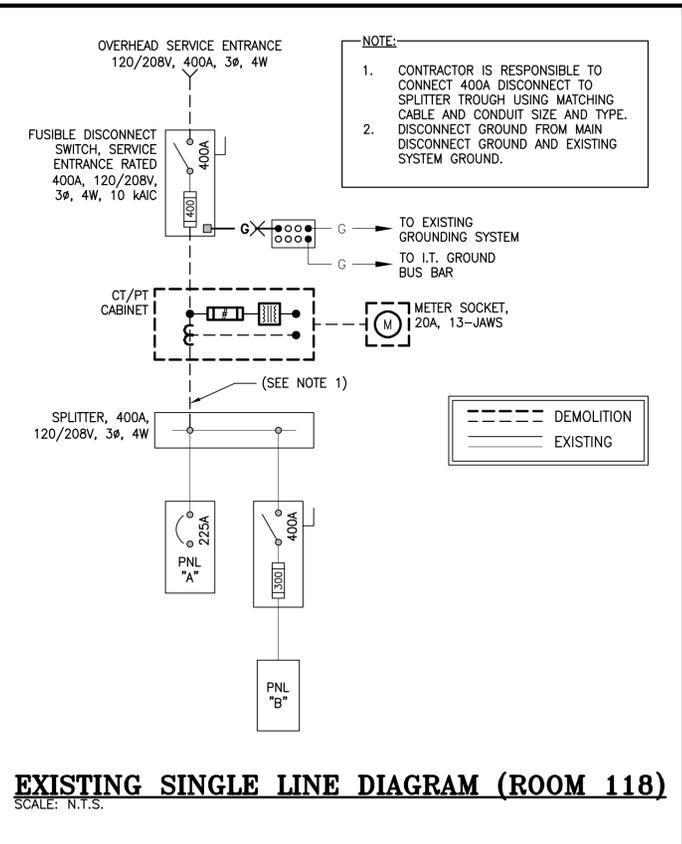
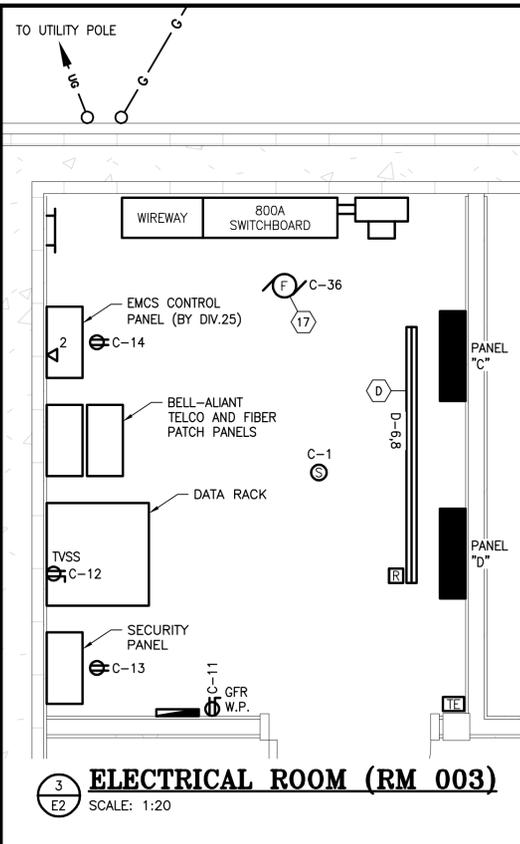


**TCFSA Administration Building Addition**

Tobique First Nation, NB

- ELECTRICAL -  
POWER & COM.  
PLAN VIEWS

SCALE: AS SHOWN  
October, 2021



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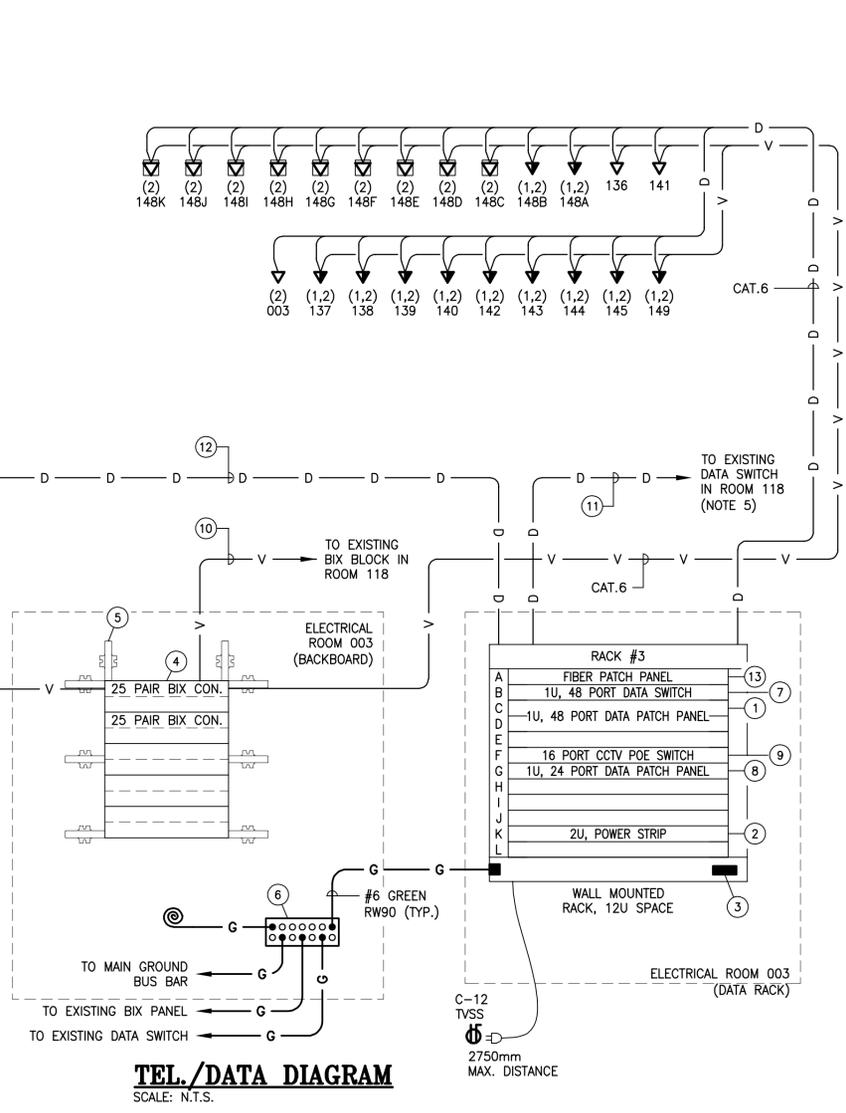
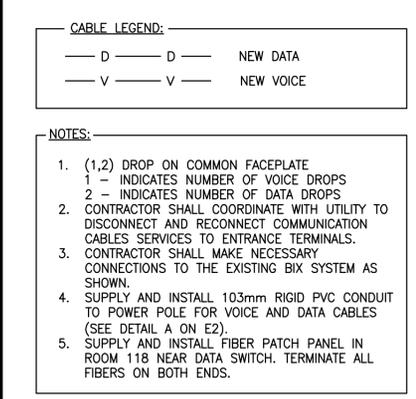
**WIRE & CONDUIT TABLE**

1	2x(4C#750 MCM RW90-AL IN 103mm RIGID PVC CONDUIT)
2	1C#6 AWG GREEN RW90-CU IN 21mm RIGID PVC CONDUIT
3	1C#2/0 AWG BARE COOPER
4	EMPTY EMT CONDUIT C/W PULL CORD
5	4C#4/0 AWG RW90-CU & BOND IN 63mm EMT CONDUIT
6	2x(4C#3/0 AWG RW90-CU & BOND IN 63mm EMT CONDUIT
7	2x(4C#4/0 AWG RW90-CU & BOND IN 63mm EMT CONDUIT

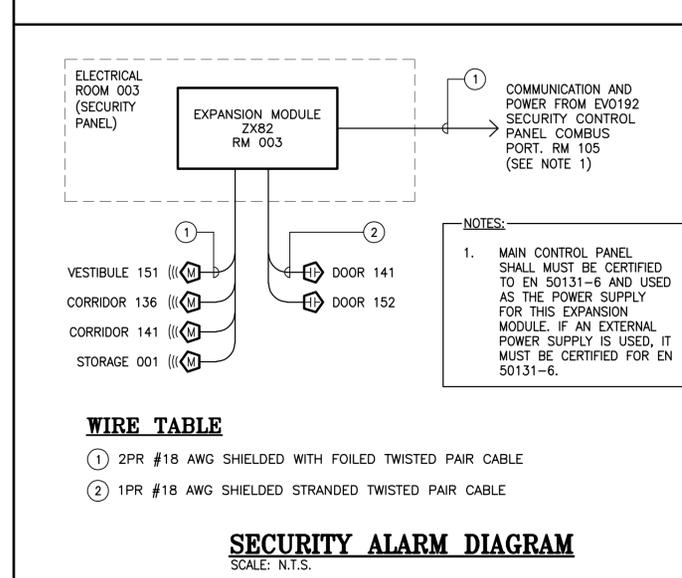
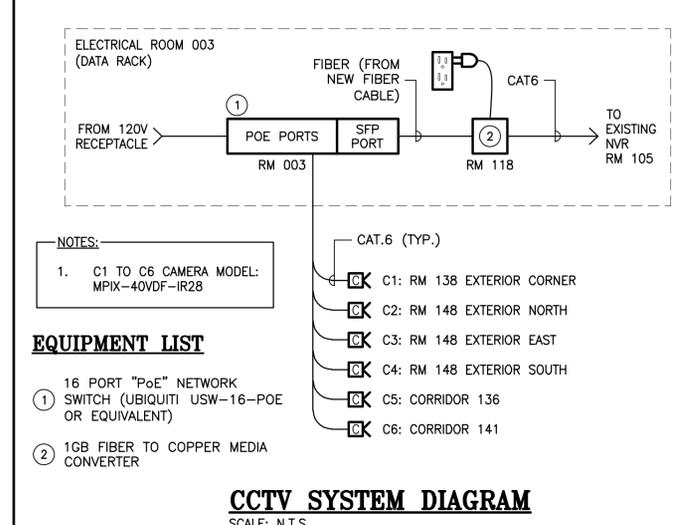
**DEMAND TABLE**

LOADS	DEMAND (kW)
BASIC LOAD	47.92 kW
EXISTING HEATING	101.44 kW
NEW HEATING	46.53 kW
MECHANICAL	11.88 kW
TOTAL:	207.77 kW

NO.	REVISION	DATE
0	ISSUED FOR TENDER	2022/02/25
C	ISSUED FOR 99% REVIEW	2022/02/04
B	ISSUED FOR COORDINATION	2022/01/28
A	ISSUED FOR COORDINATION	2021/12/17



- EQUIPMENT LIST**
- 48 PORTS CAT.6 DATA/VOICE PATCH PANEL (BY OWNER)
  - POWER STRIP, 9 OUTLETS, 20A (BY OWNER)
  - ELECTROSTATIC DISCHARGE (ESD) PORT KIT & WRIST WRAP (BY OWNER)
  - BIX MOUNT 100 PAIR C/W 100 PAIR BIX DISTRIBUTION CONNECTORS
  - DISTRIBUTION RING TO SUITE FOR A NEAT INSTALLATION
  - TELECOMMUNICATION GROUNDING BUS BAR 6x50x300mm
  - 48-PORT GIGABIT POE ETHERNET MANAGED SWITCH WITH 4X10GB SFP+ UPLINKS (BY OWNER)
  - 24 PORTS CAT.6 DATA PATCH PANEL (BY OWNER)
  - 16 PORT CCTV POE SWITCH (UBIQUITI USW-16-POE OR EQUIVALENT)
  - 50 PAIR 24AWG CAT.3 (25 SPARE PAIRS)
  - 12 FIBER SINGLE MODE "HOUSE FIBER" WITH PATCH PANEL ON BOTH ENDS WITH GREEN SCA CONNECTORS.
  - FIBER PATCH CABLE
  - 1U FIBER PATCH PANEL (COMPATIBLE WITH ITEM 11)



**A** DETAIL NUMBER  
**B** REFERENCE DWG NO.  
**C** DETAIL DWG NO.

**PROFESSIONAL ENGINEER**  
M4846  
Marc J. Robichaud  
FEB. 25, 22  
INGENIEUR IMMATRICULE

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125-21-E4

**architects**

**TCFSA Administration Building Addition**  
Tobique First Nation, NB

- ELECTRICAL -  
DETAIL & DIAGRAMS

SCALE: AS SHOWN  
October, 2021

A2135 **E4**

PLOT DATE: 2022-02-25



**SPECIFICATION NOTES SECTIONS, DIVISION 26, 27 AND 28**

**1. SCOPE OF WORK**

- 1.1 THE ELECTRICAL CONTRACTOR SHALL FURNISH ALL LABOUR, MATERIALS, TOOLS, APPLIANCES AND EQUIPMENT TO ENTIRELY COMPLETE AND PROVIDE FOR THE OPERATION OF THE ELECTRICAL SYSTEMS, AS INDICATED IN THESE SPECIFICATIONS, AND AS SHOWN ON DRAWINGS.
- 1.2 THE OVERALL INTENTION IS TO PROVIDE FOR A FINISHED PIECE OF WORK COMPLETE IN ALL ASPECTS, AND ALL ITEMS REASONABLY INFERRABLE AS CALLED FOR BY THE PLANS AND SPECIFICATIONS, AND BY NORMALLY ACCEPTED GOOD PRACTICE, NOTWITHSTANDING THAT EVERY ITEM NECESSARILY REQUIRED MAY NOT BE PARTICULARLY MENTIONED. THIS CONTRACTOR SHALL FULFILL HIS OBLIGATION AND NOT TAKE ADVANTAGE OF ANY UNINTENTIONAL ERRORS OR OMISSIONS SHOULD SUCH EXIST, TO THE DETRIMENT OF THE OWNERS' INTEREST. GENERALLY THE WORK INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:
  - .1 ELECTRICAL DEMOLITION AS INDICATED ON DRAWINGS,
  - .2 PROVIDE AND INSTALL CONDUITS AND WIRING FROM NEW NB POWER TRANSFORMER BANK POLE TO EXISTING BUILDING SERVICE ENTRANCE. COORDINATE WORK WITH NB POWER;
  - .3 PROVIDE AND INSTALL EXTERIOR LIGHTING FIXTURES AND ITS CONTROLS;
  - .4 POWER DISTRIBUTION;
  - .5 WIRING OF EQUIPMENT SUPPLIED BY OTHERS WHICH INCLUDES MECHANICAL SYSTEMS AND BUILDING SERVICE EQUIPMENT;
  - .6 PROVIDE AND INSTALL WIRING DEVICES;
  - .7 PROVIDE AND INSTALL LIGHTING FIXTURES AND ITS CONTROLS;
  - .8 PROVIDE AND INSTALL NEW EMERGENCY LIGHTS AND EXIT LIGHTS;
  - .9 CONDUIT, CABLE TRAY, WIRING AND ITS INSTALLATION;
  - .10 PROVIDE AND INSTALL ELECTRIC HEATING AND ITS CONTROLS, COORDINATE WITH DIV.25;
  - .11 COMMUNICATIONS SYSTEMS:
    - .1 DATA/VOICE SYSTEM,
    - .2 SECURITY SYSTEM,
    - .3 CCTV SYSTEM,
    - .4 AUDIO/VIDEO SYSTEM.
  - .12 TESTING OF SYSTEMS FOR ACCEPTANCE OF INSPECTION AUTHORITY;
  - .13 SUPPLY OF TEMPORARY LIGHTING AND POWER IF NECESSARY;
  - .14 MARK-UP "AS-BUILT" IN RED ON PRINT AND TURN OVER TO CONSULTANT.

**2. GENERAL REQUIREMENTS**

- 2.1 PROVIDE LABOUR, PRODUCTS, CONSTRUCTION TOOLS AND EQUIPMENT, FACILITIES AND SERVICE NECESSARY FOR PERFORMANCE OF WORK AS INDICATED AND SPECIFIED.
- 2.2 CONTRACTOR SHALL VISIT SITE PRIOR TO TENDER CLOSE. NO ALLOWANCE SHALL BE MADE FOR PROBLEMS DUE TO LACK OF KNOWLEDGE OF EXISTING CONDITIONS THAT COULD REASONABLY HAVE BEEN ASCERTAINED BY A CAREFUL INSPECTION.
- 2.3 ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS AND THEIR AMENDMENTS, IN A MANNER CONSISTENT WITH GOOD WORKMANSHIP.
- 2.4 SCHEDULE ALL ELECTRICAL WORK WITH GENERAL CONTRACTOR AND USER. THE DEPARTMENT WILL REMAIN OPEN DURING REGULAR HOURS. ALL WORK SHALL BE PERFORMED IN SUCH A MANNER AS TO AFFECT MINIMAL DISRUPTION TO THE OCCUPANTS. ANY DISRUPTIVE WORK SHALL BE SCHEDULED DURING THE NIGHT OR ON WEEKENDS.
- 2.5 COORDINATE ANY POWER SHUT DOWN WITH OWNER/USER (72 HOURS NOTICE REQUIRED).
- 2.6 OBTAIN PERMITS AND CERTIFICATIONS, SUBMIT DRAWINGS TO INSPECTION AUTHORITY.
- 2.7 COORDINATE WORK WITH OTHERS.
- 2.8 REVIEW MECHANICAL DRAWINGS, PROVIDE POWER TO ALL MECHANICAL EQUIPMENT AND COORDINATE TESTING.
- 2.9 SUBMIT ONE (1) COPY OF ELECTRONIC (PDF) SHOP DRAWINGS FOR REVIEW BY CONSULTANT OF ALL EQUIPMENT AND MATERIAL SPECIFIED.
- 2.10 ALL MATERIAL SUPPLIED SHALL BE NEW AND CARRY CSA OR ULC CERTIFICATION.
- 2.11 SUBMIT THREE (3) COPIES OF OPERATION AND MAINTENANCE INSTRUCTIONS, TOGETHER WITH ALL APPROVED SHOP DRAWINGS, BOUND IN THREE RING BINDERS. INCLUDE IN OPERATION AND MAINTENANCE MANUALS:
  - .1 NAME AND ADDRESS OF ELECTRICAL CONTRACTOR;
  - .2 NAMES AND ADDRESSES OF LOCAL SUPPLIERS;
  - .3 COPY OF ALL PERMITS AND CERTIFICATES;
  - .4 COPY OF GUARANTEE CERTIFICATE OF ALL WORK PERFORMED FOR A PERIOD OF ONE (1) YEAR;
  - .5 DETAILS OF DESIGN ELEMENTS, CONSTRUCTION FEATURES, COMPONENT FUNCTION AND MAINTENANCE REQUIREMENTS, TO PERMIT EFFECTIVE START-UP, OPERATION, MAINTENANCE, REPAIR, MODIFICATION, EXTENSION AND EXPANSION OF ANY PORTION OR FEATURE OF INSTALLATION.
  - .6 TECHNICAL DATA, PRODUCT DATA, SUPPLEMENTED BY BULLETINS, COMPONENT ILLUSTRATIONS, EXPLODED VIEWS, TECHNICAL DESCRIPTIONS OF ITEMS, AND PARTS LISTS. ADVERTISING OR SALES LITERATURE NOT ACCEPTABLE;
  - .7 WIRING AND SCHEMATIC DIAGRAMS AND PERFORMANCE CURVES;
  - .8 COPY OF REVIEWED SHOP DRAWINGS;
  - .9 COPY OF ALL TEST CERTIFICATES;
  - .10 COPY OF ALL FINAL PANELBOARD SCHEDULES;
  - .11 COPY OF THE SIGNED LETTER OF RECEPTION OF ALL SPARE PARTS SUPPLIED.
- 2.12 MAINTAIN ONE (1) SET OF PLANS ON WHICH SHALL BE CLEARLY NOTED ALL CHANGES OR DEVIATIONS FROM THE CONTRACT DRAWINGS, AND SUBMIT THEM AT THE END OF THE PROJECT MARKED "AS-BUILT DRAWINGS".
- 2.13 ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL WALLS AND OPENINGS.
- 2.14 ALL CORE DRILLING, CUTTING, PATCHING AND FIRESTOPPING OF PENETRATIONS THROUGH WALLS AND FLOORS, SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- 2.15 ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH 1/8" (3.2mm) THICK LAMICOLD NAMEPLATES WITH WHITE FACE AND BLACK CORE, MECHANICALLY ATTACHED. IDENTIFICATION TO INDICATE LOAD DESIGNATION AND RATING.
- 2.16 CONTRACTOR SHALL INSTRUCT OWNER IN OPERATION OF EQUIPMENT SUCH AS CCTV SYSTEM, SECURITY SYSTEM, DIMMING SYSTEM, LIGHTING CONTROLS, CARD ACCESS, AUDIO/VIDEO SYSTEM.
- 2.17 PROVIDE IN WRITING A GUARANTEE COVERING ALL LABOR AND MATERIAL FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE OF WORK, AND AGREE TO REPAIR AND MAKE GOOD ALL DEFECTS DURING THAT TIME.

**3. UNDERGROUND DUCTS AND CABLES**

- 3.1 ALL TRENCHING, CONCRETE WORK AND BACKFILLING SHALL BE BY GENERAL CONTRACTOR.
- 3.2 ALL UNDERGROUND SERVICES ARE TO BE LOCATED PRIOR TO EXCAVATION. ANY DAMAGE TO SUCH SERVICE SHALL BE THE RESPONSIBILITY OF, AND CORRECTED AT THE EXPENSE OF THE CONTRACTOR.
- 3.3 THE CONTRACTOR SHALL NOTIFY AND MAKE THE NECESSARY ARRANGEMENTS WITH CITY, TOWN, D.O.T., MUNICIPAL AUTHORITIES, N.B. POWER AND ALIANT PRIOR TO ANY EXCAVATION.
- 3.4 ALL SURFACES SHALL BE RESTORED TO THEIR ORIGINAL CONDITION.

**4. CONDUIT AND WIRING**

- 4.1 ALL WIRING SHALL BE RUN CONCEALED IN FINISHED AREAS AND SHALL BE RUN PARALLEL TO BUILDING LINES.
- 4.2 ALL EXPOSED WIRING SHALL BE RUN PARALLEL TO BUILDING LINES.
- 4.3 WIRING:
  - .1 NMD90 IN WOOD CONSTRUCTION/WALL;
  - .2 AC90 OR TECK CABLE FOR TEMPORARY WORK;
  - .3 AC90 C/W ANTI-SHORT BUSHING IN METAL CONSTRUCTION/WALL;
  - .4 USE FLEXIBLE CONDUIT C/W ANTI-SHORT BUSHINGS FOR MECHANICAL EQUIPMENT;
  - .5 RW90 IN EMT CONDUIT FOR SURFACE MOUNTED INSTALLATION AND AS INDICATED;
  - .6 RWU90 IN RIGID PVC CONDUIT (UNDERGROUND);
  - .7 RW90 IN LIQUID TIGHT FLEX CONDUIT CONNECTED TO MECHANICAL EQUIPMENT;
  - .8 ALL CONDUITS SHALL HAVE INDIVIDUAL BOND AND NEUTRAL CONDUCTORS, MINIMUM #12 AWG;
  - .9 MINIMUM #12 AWG;
  - .10 ALL EMPTY CONDUITS SHALL BE COMPLETE WITH NYLON PULL STRING.
  - .11 ALL CABLES ROUTED IN PLENUM SHALL BE RATED MINIMUM FT6.
  - .12 ALL CABLES ABOVE CEILING TO BE SUPPORTED BY J-HOOK TYPE SUPPORT RACEWAYS, THERE SHALL BE AT LEAST THREE TYPES OF RACEWAYS: POWER, COMMUNICATION AND ALARM WIRING.
- 4.4 RIGID PVC CONDUIT SHALL BE USED FOR ALL UNDERGROUND WORK.
- 4.5 ALL ELECTRICAL AND COMMUNICATION CONDUITS SHALL BE COLOR CODED AS PER OWNER'S REQUIREMENTS AND AS PER EXISTING INSTALLATION.
- 4.6 IDENTIFY WIRING WITH PERMANENT INDELIBLE IDENTIFYING MARKINGS, EITHER NUMBERED OR COLORED TAPES, ON BOTH ENDS OF PHASE CONDUCTORS OF FEEDERS AND BRANCH CIRCUIT WIRING, AND MAINTAIN PHASE SEQUENCE AND COLOR CODING THROUGHOUT. USE CIRCUIT NUMBERS ON WIRING FOR RECEPTACLES LOCATED AT THE BEDHEAD.
- 4.7 INSTALL CONNECTORS ON SURFACE CONDUITS, SO THAT SCREW HEADS DO NOT POSE A DANGER TO OCCUPANTS.
- 4.8 FASTEN EXPOSED CONDUIT OR CABLES TO BUILDING CONSTRUCTION OR SUPPORT SYSTEM USING ONE OR TWO HOLE STEEL STRAPS.
- 4.9 PROVIDE ADEQUATE SUPPORT FOR RACEWAYS AND CABLES DROPPED VERTICALLY TO EQUIPMENT, WHERE THERE IS NO WALL SUPPORT.
- 4.10 DO NOT USE WIRE LASHING OR PERFORATED STRAPPING TO SUPPORT OR SECURE RACEWAYS OR CABLE.
- 4.11 DO NOT USE SUPPORTS OR EQUIPMENT INSTALLED FOR OTHER TRADES FOR CONDUIT OR CABLE SUPPORT, EXCEPT WITH PERMISSION OF OTHER TRADE AND APPROVAL OF CONSULTANT.
- 4.12 SUPPORT ALL BOXES INDEPENDENTLY OF CONNECTING CONDUITS.
- 4.13 INSTALL POLYETHYLENE VAPOR BARRIER BOX ON ALL EXTERIOR WALL OUTLETS TO MAINTAIN VAPOR BARRIER INTEGRITY.
- 4.14 IDENTIFY ALL BOXES IN INTERSTITIAL SPACE WITH ROOM NUMBER AS WELL AS COLOR CODING.
- 4.15 INSTALL BONDING WIRE FOR FLEXIBLE CONDUIT, CONNECTED AT BOTH ENDS TO GROUNDING BUSHING, SOLDERLESS LUG, CLAMP, OR CUP WASHER AND SCREW. NEATLY CLEAT BONDING WIRE TO EXTERIOR OF FLEXIBLE CONDUIT.
- 4.16 ASSURE THAT ALL CONDUCTORS ARE SIZED FOR MAXIMUM VOLTAGE DROP OF:
  - BRANCH CIRCUIT FEEDERS - 2%
  - PANEL FEEDERS - 2%
  - DISTRIBUTION - 1%
- 4.17 SEAL ALL CONDUITS WHICH ENTER AIR HANDLING UNITS IN ACCORDANCE WITH CEC RULE 22-302.

**5. WIRING DEVICES**

- 5.1 WIRING DEVICES IN LEGEND ARE INTENDED TO SET A STANDARD BELOW WHICH EQUIPMENT WILL NOT BE ACCEPTED.
- 5.2 ALL DEVICES SHALL BE HEAVY DUTY, SPEC GRADE, WHITE, WITH WHITE NYLON COVER PLATES. WIRING DEVICES OUTSIDE OF SUITES: "SPEC" GRADE.
- 5.3 RECEPTACLES SHALL BE INSTALLED WITH THE "U" GROUND AT THE TOP.
- 5.4 COVERPLATES SHALL BE NYLON, COLOR WHITE.
- 5.5 MOUNTING HEIGHTS ARE FROM FINISHED FLOOR TO CENTER OF DEVICE. (MATCH EXISTING UNLESS STATED OTHERWISE).
  - .1 RECEPTACLES - 17" (450mm)
  - .2 DATA OUTLETS - 17" (450mm)
  - .3 TELEPHONE OUTLETS - 17" (450mm)
  - .4 SWITCHES - 54" (1370mm)
  - .5 EXIT SIGNS - 12" (300mm) ABOVE DOOR FRAME
  - .6 EMERGENCY LIGHTS - 12" (300mm) ABOVE DOOR FRAME
  - .7 OVER COUNTER - 6" (150mm)
  - .8 OVER CONTINUOUS BASEBOARD HEATER - 8" (200mm)
  - .9 OVER BENCH ROOM 132 - 6" (150mm)
- 5.6 ACCEPTABLE MANUFACTURERS: HUBBELL, LEVITON, PASS & SEYMOUR.

**6. PANELBOARDS / BREAKERS**

- 6.1 PANELBOARDS: TO CSA C22.2 NO.29 AND PRODUCT OF ONE MANUFACTURER.
  - .1 INSTALL CIRCUIT BREAKERS IN PANELBOARDS BEFORE SHIPMENT.
  - .2 IN ADDITION TO CSA REQUIREMENTS MANUFACTURER'S NAMEPLATE MUST SHOW FAULT CURRENT THAT PANEL INCLUDING BREAKERS HAS BEEN BUILT TO WITHSTAND.
- 6.2 250V PANELBOARDS: BUS AND BREAKERS RATED FOR 50kA INTERRUPTING CAPACITY OR AS INDICATED.
- 6.3 SEQUENCE PHASE BUSSING WITH ODD NUMBERED BREAKERS ON LEFT AND EVEN ON RIGHT, WITH EACH BREAKER IDENTIFIED BY PERMANENT NUMBER IDENTIFICATION AS TO CIRCUIT NUMBER AND PHASE.
- 6.4 PANELBOARDS: MAINS, NUMBER OF CIRCUITS, AND NUMBER AND SIZE OF BRANCH CIRCUIT BREAKERS AS INDICATED.
- 6.5 MINIMUM OF 2 FLUSH LOCKS FOR EACH PANELBOARD.
- 6.6 TWO KEYS FOR EACH PANELBOARD AND KEY PANELBOARDS ALIKE.
- 6.7 ALUMINUM BUS WITH NEUTRAL OF SAME AMPERE RATING OF MAINS.
- 6.8 MAINS: SUITABLE FOR BOLT-ON BREAKERS.
- 6.9 TRIM WITH CONCEALED FRONT BOLTS AND HINGES.
- 6.10 TRIM AND DOOR FINISH: BAKED ENAMEL.
- 6.11 ISOLATED GROUND BUS.

- 6.12 INCLUDE GROUNDING BUSBAR WITH 3 OF TERMINALS FOR BONDING CONDUCTOR EQUAL TO BREAKER CAPACITY OF THE PANEL BOARD.
- 6.13 MOUNT SURFACE PANELBOARDS ON PLYWOOD BACKBOARD PAINTED FIRE RETARDANT GRAY.
- 6.14 PROVIDE NEW UPDATED, TYPED DIRECTORIES FOR ALL PANELBOARDS INVOLVED IN THIS RENOVATION, AS TO LOAD AND LOCATION. MARKUP CIRCUITS OF ALL DEVICES SHOWN ON THESE DRAWINGS.
- 6.15 ACCEPTABLE MANUFACTURERS: EATON, SCHNEIDER, SIEMENS.

**7. GROUNDING**

- 7.1 THE ELECTRICAL SYSTEM, AS PERTAINS TO THIS RENOVATION, SHALL BE GROUNDED IN ACCORDANCE WITH THE CANADIAN ELECTRICAL CODE, AND LOCAL AUTHORITY HAVING JURISDICTION OVER INSTALLATION.

**8. LIGHTING**

- 8.1 LUMINAIRES IN SCHEDULE ARE INTENDED TO SET A STANDARD BELOW WHICH EQUIPMENT WILL NOT BE ACCEPTED.
- 8.2 SUPPORT LUMINAIRES INDEPENDENTLY FROM SUSPENDED CEILING.
- 8.3 ALIGN LUMINAIRES MOUNTED IN CONTINUOUS ROWS TO FORM STRAIGHT UNINTERRUPTED LINE.
- 8.4 ACCEPTABLE MANUFACTURERS: EATON, CFI, METALUX, LITHONIA, LIGHTOLIER, BEGHELLI

**9. COMMUNICATION**

- 9.1 SECURITY
  - .1 THE SECURITY SYSTEM SHALL BE TESTED AND VERIFIED TO CONFIRM THAT IT IS OPERATING IN CONFORMANCE WITH THE MANUFACTURERS REQUIREMENTS, BY ULC APPROVED, FACTORY TRAINED PERSONNEL.
- 9.2 DATA
  - .1 DATA CABLING, TERMINATIONS AND TESTING SHALL BE PERFORMED BY AN END TO END "CERTIFIED SYSTEM VENDOR", OR "FACTORY AUTHORIZED CONTRACTOR", AND SHALL BE "IBDN CERTIFIED", AND SHALL HAVE A 20 YEAR PASSIVE COMPONENT GUARANTY. PROVIDE TEST RESULTS AND CERTIFICATION.

**10. EMERGENCY LIGHTING**

- 10.1 EMERGENCY LIGHTING EQUIPMENT: TO CSA C22.2 NO.141.
- 10.2 SUPPLY VOLTAGE: 120V, AC.
- 10.3 OUTPUT VOLTAGE: 12V DC.
- 10.4 OPERATING TIME: 30 MINUTES.
- 10.5 BATTERY: SEALED, MAINTENANCE FREE.
- 10.6 CHARGER: SOLID STATE, MULTI-RATE, VOLTAGE/CURRENT REGULATED, INVERSE TEMPERATURE COMPENSATED, SHORT CIRCUIT PROTECTED WITH REGULATED OUTPUT OF PLUS OR MINUS 0.01V FOR PLUS OR MINUS 10% INPUT VARIATIONS.
- 10.7 SOLID STATE TRANSFER CIRCUIT.
- 10.8 LOW VOLTAGE DISCONNECT: SOLID STATE, MODULAR, OPERATES AT 80% BATTERY OUTPUT VOLTAGE.
- 10.9 SIGNAL LIGHTS: SOLID STATE, FOR "AC POWER ON" AND "HIGH CHARGE".
- 10.10 LAMP HEADS: INTEGRAL ON UNIT, 345 DEGREES HORIZONTAL AND 180 DEGREES VERTICAL ADJUSTMENT. LAMP TYPE: LED, 5.7W, MINIMUM 200 LUMEN MINIMUM OUTPUT.
- 10.11 CABINET: SUITABLE FOR DIRECT OR SHELF MOUNTING TO WALL C/W KNOCKOUTS FOR CONDUIT. REMOVABLE OR HINGED FRONT PANEL FOR EASY ACCESS TO BATTERIES.
- 10.12 AUXILIARY EQUIPMENT:
  - .1 TEST SWITCH.
- 10.13 WIRE GUARDS WHERE INDICATED.
- 10.14 ACCEPTABLE MANUFACTURERS FOR BATTERY PACK FIXTURES:
  - .1 LUMACELL RG12 SERIES.
  - .2 AIM-LITE EBOV SERIES.
  - .3 READY-LITE LDX12 SERIES.
- 10.15 ACCEPTABLE MANUFACTURERS FOR REMOTE HEAD FIXTURES:
  - .1 LUMACELL RSQB2 SERIES.
  - .2 AIM-LITE RMQVD SERIES.
  - .3 READY-LITE VMW SERIES.

**11. DISTRIBUTION / STARTERS, CONTACTORS**

- 11.1 DISCONNECT SWITCHES SHALL BE FUSIBLE, HEAVY DUTY, SPECIFICATION GRADE.
- 11.2 MANUAL STARTERS SHALL BE TOGGLE SWITCH TYPE C/W INDICATING LIGHT AND LOCKING TAB.
- 11.3 COMBINATION MAGNETIC STARTER SHALL BE EEMAC RATED, CIRCUIT BREAKER TYPE, WITH (24 V/120 V) COIL AND CONTROL TRANSFORMER, T.O.A. SWITCH, PILOT LIGHTS, AND ONE N/O, ONE N/C AUXILIARY CONTACTS.
- 11.4 MAGNETIC STARTER SHALL BE COMPLETED WITH H.O.A. SWITCH, CONTROL TRANSFORMER AND HOLDING COIL, INDICATING LIGHTS, ONE N/O, ONE N/C AUXILIARY CONTACTS, ON/OFF LOCKING PROVISIONS.
- 11.5 CONTACTORS SHALL HAVE RED INDICATING LIGHT, AND H.O.A. SWITCH IN COVER.
- 11.6 ALL EQUIPMENT SHALL BE SUITABLE FOR THE ENVIRONMENT IN WHICH IT IS INSTALLED; I.E. WEATHERPROOF, DUSTPROOF, OR WITH SPLASH PROTECTION WHEN SPRINKLERED.

**12. SPLITTERS, JUNCTION, PULL BOX AND CABINETS**

- 12.1 SPLITTERS
  - .1 CONSTRUCTION: SHEET METAL ENCLOSURE, WELDED CORNERS AND FORMED HINGED COVER SUITABLE FOR LOCKING IN CLOSED POSITION.
  - .2 TERMINATIONS: CONNECTION BLOCKS TO MATCH REQUIRED SIZE AND NUMBER OF INCOMING AND OUTGOING CONDUCTORS AS INDICATED.
  - .3 SPARE TERMINALS: MINIMUM THREE SPARE TERMINALS ON EACH CONNECTION OR LUG BLOCK SIZED LESS THAN 400A.
- 12.2 JUNCTION AND PULL BOXES
  - .1 CONSTRUCTION: WELDED STEEL ENCLOSED.
  - .2 COVERS FLUSH MOUNTED: 25mm MINIMUM EXTENSION ALL AROUND.
  - .3 COVERS SURFACE MOUNTED: SCREW-ON FLAT COVERS.
- 12.3 CABINETS
  - .1 CONSTRUCTION: WELDED SHEET STEEL HINGED DOOR, HANDLE, LATCH AND LOCK, 2 KEYS AND CATCH.

**13. DEMOLITION / RENOVATION**

- 13.1 ELECTRICAL CONTRACTOR SHALL ENSURE ELECTRICAL CONTINUITY TO EXISTING DEVICES REMAINING AND THOSE REMOVED.
- 13.2 RELOCATE EXISTING WIRING, RACEWAYS, FIXTURES AND DEVICES AS REQUIRED TO MAINTAIN REASONABLE ACCESSIBILITY, AND TO FACILITATE INSTALLATION OF TOTAL PROJECT WORK.
- 13.3 REMOVE ALL REDUNDANT DEVICES, WIRING AND CONDUIT BACK TO THEIR SOURCE OF SUPPLY.
- 13.4 TURN OVER TO OWNER ALL DEVICES, LIGHTING, EQUIPMENT, BREAKERS, ETC. REMOVED DURING CONSTRUCTION UNLESS REUSED. ALL EQUIPMENT WHICH OWNER REFUSES IS TO BE REMOVED FROM SITE.
- 13.5 WHERE NEW DRYWALL COVERS EXISTING JUNCTION OR PULL BOXES, INSTALL ACCESS HATCHES.
- 13.6 REMOVE CONTAMINATED OR DANGEROUS MATERIALS AS DEFINED BY AUTHORITIES HAVING JURISDICTION RELATING TO ENVIRONMENTAL PROTECTION FROM SITE AND DISPOSE OF IN SAFE MANNER TO MINIMIZE DANGER AT SITE OR DURING DISPOSAL.

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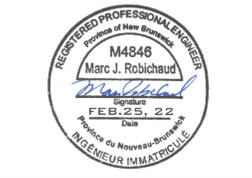
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NO.	REVISION	DATE
0	ISSUED FOR TENDER	2022/02/25
C	ISSUED FOR 99% REVIEW	2022/02/04
B	ISSUED FOR COORDINATION	2022/01/28
A	ISSUED FOR COORDINATION	2021/12/17

**A** DETAIL NUMBER  
**B** REFERENCE DWG NO.  
**C** DETAIL DWG NO.



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**TCFSA Administration Building Addition**  
Tobique First Nation, NB

**- ELECTRICAL - SPECIFICATIONS**

SCALE: AS SHOWN  
October, 2021

PLOT DATE: 2022-02-25