

ARLINGTON WOODS FREE METHODIST CHURCH RENOVATION

225 MCCLELLAN RD, OTTAWA, ON K2H 8N5

ELECTRICAL

Client

POWER & SYSTEMS LEGEND	
SYMBOL	DESCRIPTION
	15A, 120V WALL MOUNTED DUPLEX RECEPTACLE
	DEDICATED DUPLEX RECEPTACLE
	GROUND FAULT INTERRUPTING RECEPTACLE INSTALLED OVER COUNTER
	RECEPTACLE INSTALLED OVER COUNTER
	5-20R RECEPTACLE
	SPECIAL RECEPTACLE - TYPE AS INDICATED
	JUNCTION BOX
	SINGLE PHASE ELECTRIC MOTOR
	DISCONNECT SWITCH
	SURFACE MOUNTED PANEL
	PUSH BUTTON
	BARRIER-FREE DOOR OPERATOR C/W PUSHBUTTONS
	HARD WIRE CONNECTION
	FLEXIBLE CONDUIT
	SPEED SWITCH SUPPLIED BY MECHANICAL CONTRACTOR, INSTALLED & WIRED BY ELECTRICAL CONTRACTOR
	LINE VOLTAGE THERMOSTAT PROVIDED BY ELECTRICAL CONTRACTOR

DRAWING LIST	
ABBREVIATION	DESCRIPTION
E1	ELECTRICAL DRAWING LIST, LEGENDS & LIGHTING FIXTURES SCHEDULE
E2	ELECTRICAL SPECIFICATIONS
E3	ELECTRICAL DEMOLITION WORK PART RISER DIAGRAM & PANEL SCHEDULE
E4	ELECTRICAL NEW WORK PART RISER DIAGRAM & PANEL SCHEDULE
E5	BASEMENT FLOOR ELECTRICAL DEMOLITION WORK LAYOUT
E6	GROUND FLOOR ELECTRICAL DEMOLITION WORK LAYOUT
E7	BASEMENT FLOOR ELECTRICAL LIGHTING & FIRE ALARM NEW WORK LAYOUT
E8	GROUND FLOOR ELECTRICAL LIGHTING & FIRE ALARM NEW WORK LAYOUT
E9	BASEMENT FLOOR ELECTRICAL POWER & SYSTEMS NEW WORK LAYOUT
E10	GROUND FLOOR ELECTRICAL POWER & SYSTEMS NEW WORK LAYOUT

LIGHTING FIXTURE SCHEDULE							
TYPE	DESCRIPTION	CATALOG NUMBER	WATTS	COLOUR	VOLT	MOUNTING	REMARKS
A	24" ROUND LIGHT	LUMENWERX SHLS-S-24-HLO-SW-90-6000-35-120-D1-IDB-1	84.31W	3500K	120V	SURFACE	CONFIRM WITH ARCHITECT FOR FINISH MOUNTING HEIGHT 10 FEET
B	PENDENT LIGHT	LUMENWERX POROPD-48-ULO-XX-LED-80-14000-35-120-D1-1-5WAC36-W	32.5W	3500K	120V	PENDENT	C/W AIR CRAFT CABLE MOUNTING HEIGHT 18 FEET
C1	SUSPENDED LIGHTS	EDISON LIGHTING ED VECTOR+3FEET-7WFTLED-DD-120V-DL-54-XX-XX-35K	21W	3500K	120V	SUSPENSION	CONFIRM WITH ARCHITECT FOR FINISH MOUNTING HEIGHT 8.8 FEET C/W CANOPY AND PENDANTS
C2	SUSPENDED LIGHTS	EDISON LIGHTING ED VECTOR+4FEET-7WFTLED-DD-120V-DL-54-XX-XX-35K	28W	3500K	120V	SUSPENSION	CONFIRM WITH ARCHITECT FOR FINISH MOUNTING HEIGHT 8.8 FEET C/W CANOPY AND PENDANTS
C3	SUSPENDED LIGHTS	EDISON LIGHTING ED VECTOR+6FEET-7WFTLED-DD-120V-DL-54-XX-XX-35K	42W	3500K	120V	SUSPENSION	CONFIRM WITH ARCHITECT FOR FINISH MOUNTING HEIGHT 8.8 FEET C/W CANOPY AND PENDANTS
D1	4" LED LIGHTS	CREE LIGHTING LS4-50L-35K-10V #	48W	3500K	120V	SURFACE	
D2	4" LED LIGHTS	CREE LIGHTING LS8-50L-35K-10V #	80W	3500K	120V	SURFACE	
E1	PENDENT LAMP	KUZCO LIGHTING 492316-BK-GD	60W	3500K	120V	PENDENT	C/W CLOTH CABLE MOUNTING HEIGHT 7.5 FEET
F	EXTERIOR SOFFIT	KUZCO LIGHTING EC34505-120V-BLACK	15W	4000K	120V	SURFACE	C/W MOUNTING ACCESSORIES

NOTE--COORDINATE WITH ARCHITECT FOR LIGHT FIXTURE COLOR FINISH

ABBREVIATION LIST	
ABBREVIATION	DESCRIPTION
C	CEILING MOUNTED
R	DISCONNECT AND REMOVE C/W WIRING AND CONDUIT BACK TO SOURCE
E	EXISTING TO REMAIN
GFI	GROUND FAULT INTERRUPTING RECEPTACLE, AUTOMATIC SELF-TEST/RESET, GREEN/RED PILOT
OC	OVER COUNTER
ER	EXISTING TO BE REMOVED AND RELOCATED C/W CONDUIT AND WIRING
EN	EXISTING RELOCATED IN NEW LOCATION C/W CONDUIT AND WIRING
AFF	ABOVE FINISHED FLOOR

LIGHTING & FIRE ALARM LEGEND	
SYMBOL	DESCRIPTION
	WALL MOUNTED LIGHT FIXTURE - TYPE AS SHOWN
	LIGHT FIXTURE - TYPE AS SHOWN
	CEILING/PENDANT MOUNTED LIGHT - TYPE AS SHOWN
	WALL MOUNTED SWITCH
	WALL MOUNTED DIMMING SWITCH
	CEILING MOUNTED MOTION SENSOR
	EMERGENCY BATTERY UNIT C/W RECEPTACLE AND LIGHTING HEADS
	WALL/CEILING MOUNTED EXIT LIGHT
	REMOTE EMERGENCY LIGHTING DUAL HEAD - CEILING MOUNTED
	FIRE ALARM HEAT DETECTOR, R57°C
	FIRE ALARM PULL STATION
	FIRE ALARM BELL
	FIRE ALARM STROBE LIGHT

ONLINE DIAGRAM LEGEND	
SYMBOL	DESCRIPTION
	CIRCUIT BREAKER - RATING AS INDICATED
	CURRENT TRANSFORMER
	DRY TYPE TRANSFORMER
	GROUND
	METER

GENERAL NOTES

DEMOLITION NOTES:

- UNLESS OTHERWISE NOTED, MATERIALS FOR REMOVAL BECOME THE CONTRACTOR'S PROPERTY AND SHALL BE TAKEN FROM SITE AND DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS AND REGULATIONS.
- DISCONNECT AND MAKE SAFE ALL SYSTEMS TO BE DEMOLISHED INCLUDING PANELS, FEEDERS, BRANCH CIRCUITS AND EQUIPMENT BY OTHER DIVISIONS. COORDINATE WITH OTHER DIVISIONS.
- MAINTAIN EXISTING REMAINING CIRCUITS, SYSTEMS, ETC., WHICH PASS THROUGH AREA OF CONSTRUCTION AND IN CLOSE PROXIMITY. PROVIDE NECESSARY COMPONENTS TO MAINTAIN SYSTEMS. ENSURE COMPONENTS WILL BE CONCEALED WHEN CONSTRUCTION IS COMPLETE.
- REINSTATE IMMEDIATELY ANY REMAINING EXISTING SYSTEMS IN-ADVERTENTLY INTERRUPTED DURING CONSTRUCTION.
- THE DRAWINGS INDICATE KNOWN CONDITIONS AND MAY NOT INDICATE ALL DEMOLITION REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL VISIT THE SITE PRIOR TO TENDER SUBMISSION AND VERIFY REQUIREMENTS AND INCLUDE ALL COSTS IN TENDER.
- REMOVE REDUNDANT CONDUIT AND WIRING BACK TO SOURCE UNLESS OTHERWISE NOTED, AND MAKE SAFE.
- DEVICES FROM DEMOLITION ARE NOT TO BE REUSED UNLESS NOTED OTHERWISE. NEW DEVICES SHALL BE SUPPLIED WHERE NECESSARY.
- ALL FIRE ALARM DEVICES TO REMAIN IN OPERATION. PROTECT SMOKE DETECTORS FROM DUST EXPOSURE DURING CONSTRUCTION.
- ENSURE FIRE ALARM SYSTEM IS OPERATIONAL AT THE END OF EACH SHIFT.
- AFTER DEMOLITION WORK IS COMPLETE AND MINIMUM THREE (3) WORKING DAYS PRIOR TO PROCEEDING WITH NEW WORK, NOTIFY ENGINEER FOR INSPECTION.
- PROPERLY DISPOSE OF ALL TB LIGHT TUBES AND PROVIDE OWNER WITH A COPY OF THE MANIFEST OF DISPOSAL.

GENERAL NOTES:

- ELECTRICAL WORK TO BE DONE IN ACCORDANCE WITH THE ELECTRICAL SAFETY CODE OF ONTARIO, AND WITH NEW ARCHITECTURAL/INTERIOR DESIGNER'S LAYOUT (LOCATION/MOUNTING HEIGHTS). CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS, PAY ALL APPLICABLE FEES AND INSPECTION COSTS.
- COORDINATE WORK WITH ALL OTHER TRADES TO AVOID INTERFERENCE.
- ENSURE ELECTRICAL COMPONENTS (E. WIRING, CONDUIT, ETC.) RELATING TO THE AREA OF WORK ARE INDEPENDENTLY SECURED TO COMPLY WITH CODE REQUIREMENTS. IT IS NOT ACCEPTABLE TO SECURE THE COMPONENTS TO DUCTWORK, DUCT WORK TO CONDUIT, OR ANY OTHER SYSTEMS.
- ENSURE ALL EXISTING CEILING MOUNTED BOXES ARE CLOSED PRIOR TO COMPLETION OF PROJECT. PROVIDE LABELLED AND COLOUR CODED COVER PLATES (E. PANEL NAME AND CIRCUIT NUMBER) AS REQUIRED.
- MINIMUM THREE (3) WORKING DAYS PRIOR TO CLOSING CEILING, NOTIFY THE ENGINEER FOR CEILING INSPECTION.
- THE UP ALL EXISTING CABLEING (ELECTRICAL AND LOW VOLTAGE) IN THE CEILING SPACE USING J HOOKS TO THE BAR JOISTS.

EXIT LIGHTS:

- CONNECT EXIT LIGHTS TO AC AND DC SUPPLIES.
- ADD/REMOVE DIRECTIONAL ARROWS TO SUIT FLOOR PLAN LAYOUT.
- TO MATCH EXISTING.

LIGHTING NOTES:

- LUMINAIRES IN CONSTRUCTION AREA ARE TO BE INDEPENDENTLY SUPPORTED, INCLUDING EXISTING TO REMAIN, RELOCATED AND NEW, TO COMPLY WITH CODE REQUIREMENTS.
- ADD, RELOCATE AND CONNECT LIGHT FIXTURES TO SUIT INDICATED LAYOUT. EXTEND CONDUIT AND WIRING AS NECESSARY AND CONNECT LUMINAIRES TO EXISTING CIRCUITS. TURN OVER SURPLUS FIXTURES TO OWNER.
- WHERE AIR SUPPLY TRUNKS ARE BEING RELOCATED BY MECHANICAL CONTRACTOR TO EXISTING LIGHT FIXTURE, ELECTRICAL CONTRACTOR TO COORDINATE DISCONNECTION AND RECONNECTION AS REQUIRED.
- FIXTURE LAMPS SHALL BE PROPERLY DISPOSED. PROVIDE UDCDB PROJECT MANAGER WITH PROOF OF ENVIRONMENTAL DISPOSAL.
- EXISTING LIGHT FIXTURE IS TO BE REMOVED AND RETURNED OVER TO THE OWNER.

FIRE ALARM NOTES:

- PROVIDE NEW CIRCUITS AS REQUIRED FOR AUDIBLE AND ALARM CIRCUITS.
- TEST FINAL INSTALLATION AND PROVIDE VERIFICATION OF FIRE ALARM SYSTEMS IN ACCORDANCE WITH CAN/ULC S537 LATEST EDITION. VERIFICATION REPORT SHALL INCLUDE MEASURED dB LEVELS.
- ALL NEW DEVICES TO BE EST EDWARDS SYSTEMS TECHNOLOGY AND MATCH EXISTING. PROVIDE SHOP DRAWINGS FOR APPROVAL.

POWER NOTES:

- ENSURE EXISTING REMAINING OUTLETS IN AFFECTED AREA ARE FUNCTIONAL.
- DO NOT MOUNT WALL OUTLETS BACK TO BACK. LEAVE MINIMUM 300mm [12"] SPACE BETWEEN OUTLETS. STAGGER OUTLETS WITHIN ALTERNATE STUD CAVITIES. DO NOT ANCHOR BACK TO BACK OUTLETS TO THE SAME STUD.

COMMUNICATION NOTES:

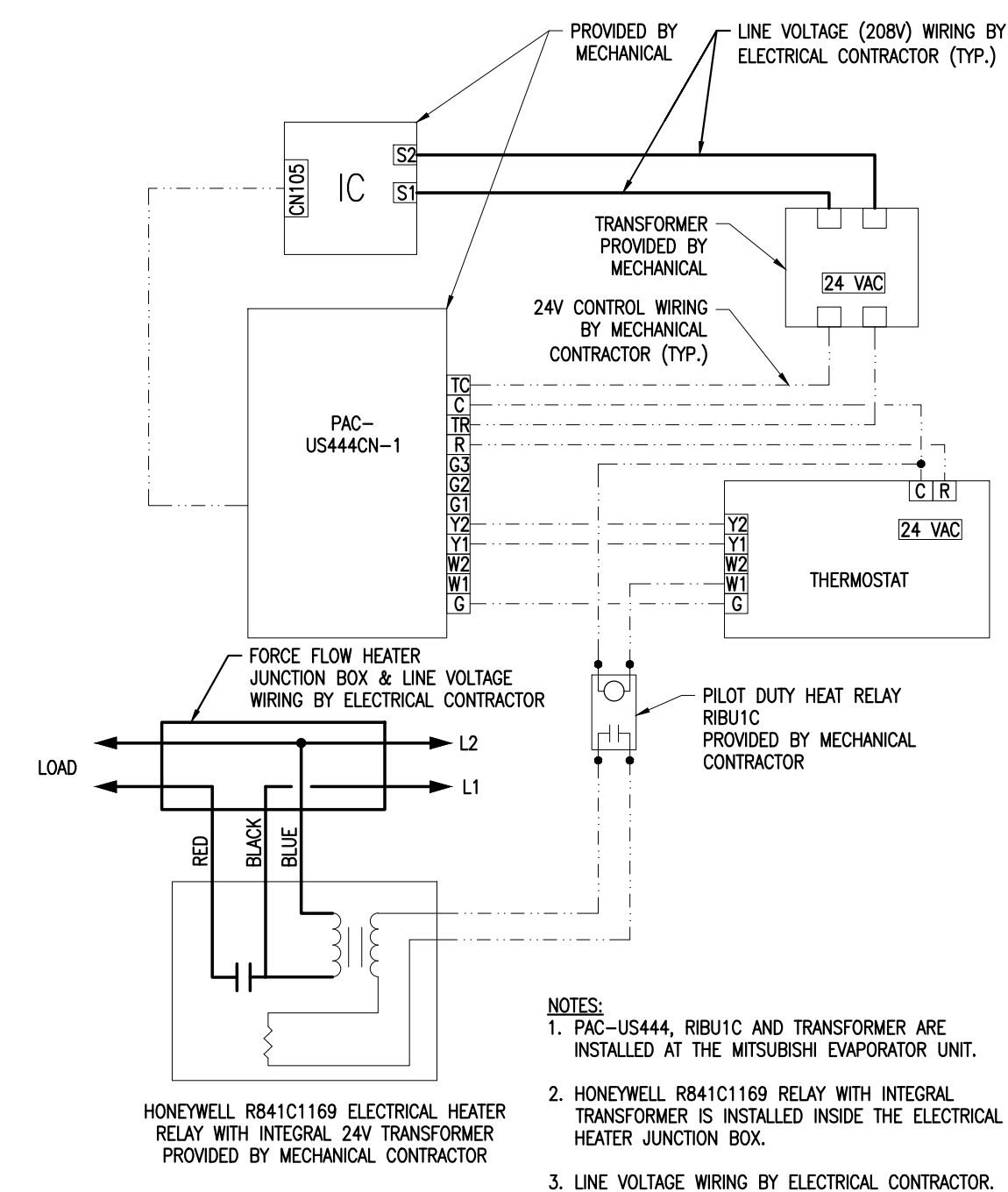
- PROVIDE PLASTER RINGS FOR OUTLETS WITH OUTLET BOXES 108mm SQUARE X 63mm DEEP [4" SQUARE X 2 1/2" DEEP] EACH WITH 21mm [3/4"] EMPTY CONDUIT TO CEILING SPACE C/W BUSHING AND PULL STRINGS. NEW TEL AND/OR DATA CABLES, TERMINAL DEVICES AND COVER PLATES WILL BE SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR. ALL DATA AND COMMUNICATION WIRING TO BE COMPLETE BY OWNERS PA & DATA CONTRACTOR.

OUTLETS LOCATION:

- EXACT LOCATION AND MOUNTING HEIGHTS OF OUTLETS TO BE COORDINATED WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH IN. REFER TO ARCHITECTURAL DRAWINGS FOR REQUIREMENTS.
- BRING TO THE ATTENTION OF THE ARCHITECT DESIGNER AND ENGINEER ANY CONFLICTS OR REQUIRED CLARIFICATION.
- FAILING TO COORDINATE, THE CONTRACTOR WILL MODIFY THE INSTALLATION AT HIS EXPENSE, IF REQUIRED.

HEATING LEGEND	
SYMBOL	DESCRIPTION
	HOT WATER TANK
	BASEBOARD HEATER
	FORCE FLOW HEATER

SECURITY & TELECOMMUNICATION LEGEND	
SYMBOL	DESCRIPTION
	CARD READER
	ELECTRICAL STRIKE
	SECURITY MOTION SENSOR
	DATA OUTLET BOX--NUMBER INDICATED DATA DROPS
	CATV OUTLET BOX
	COMBINATION OF DATA & TELEPHONE OUTLET
	WiFi OUTLET BOX



1 THERMOSTAT DETAIL
E1 N.T.S.

DATE	REVISION	REF
2021-01-14	ISSUED FOR CONSTRUCTION	
2021-01-05	ISSUED FOR POST TENDER ADDENDUM E1	
2020-11-17	ISSUED FOR ADDENDUM E3	
2020-07-24	ISSUED FOR TENDER	--
2020-05-27	ISSUED FOR PERMIT	--
2020-05-08	ISSUED FOR REVIEW	--

THE ENGINEER WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND THE DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHER FAILURE TO OBTAIN AND / OR FOLLOW THE ENGINEER'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS WHICH ARE ALLEGED.

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NE PAS MESURER LES Dessins A L'ÉCHELLE

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Project north Nord du projet	Seal/Scieu
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Project/Projet

ARLINGTON WOODS FREE METHODIST CHURCH RENOVATION

225 McClellan Rd, Ottawa, ON K2H 8N5

Drawing titre/Titre du dessin

ELECTRICAL DRAWING LIST, LEGENDS & LIGHTING FIXTURES SCHEDULE

Scale Échelle	AS NOTED 2019-333-1	Project no./No. du projet 2019-333-1
Design by Conçu par	J.ANTALA	Drawing/Dessin
Drawn by Dessiné par	J.ANTALA	E1
Reviewed by Examiné par	D.VYAS	OF 10
Date Date	JANUARY 2021	Revision no: Acad file/Fichier:

ELECTRICAL SPECIFICATIONS:

1. COMPLY WITH THE REQUIREMENTS OF THE INSTRUCTIONS TO BIDDERS, THE GENERAL CONDITIONS OF THE CONTRACT AND THE SUPPLEMENTARY GENERAL CONDITIONS INCLUDED IN THE TENDER DOCUMENTS.
2. CONTRACTOR SHALL FOLLOW THE BIDDING DOCUMENT PROJECT SCHEDULE. UPON AWARD, CONTRACTOR SHALL SUBMIT WORK SCHEDULE AND EQUIPMENT DELIVERY SCHEDULE TO PROJECT MANAGER & ENGINEER FOR REVIEW AND APPROVAL.
3. ALL WORK TO BE CONDUCTED DURING HOURS SPECIFIED BY THE PROJECT MANAGER.
4. ALL INSTALLATIONS SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND BY-LAWS AND BE INSTALLED BY LICENSED WORKMEN SKILLED IN THAT PARTICULAR PORTION OF THE CONTRACT.
5. ANY CONFLICT OR QUESTIONS THAT ARISE IN RELATION TO THE DESIGN DOCUMENTS DURING THE TENDER PERIOD SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. IF THIS PROCEDURE IS NOT FOLLOWED, REWORKING AND MODIFICATION AS REQUIRED TO COMPLETE THE WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
6. GIVE ALL NOTICES, OBTAIN ALL NECESSARY PERMITS AND PAY ALL APPLICABLE FEES AND INSPECTION COSTS AND DELIVER TO ENGINEER ALL NECESSARY FINAL CERTIFICATES OF INSPECTION AND APPROVAL WHICH MAY BE REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER WORK, AS EVIDENCE THAT WORK INSTALLED CONFORMS WITH LAWS AND REGULATIONS OF ALL GOVERNING AUTHORITIES, BEFORE FINAL CERTIFICATE OF PAYMENT MAY BE CONSIDERED DUE. FURNISH COPIES OF ALL DRAWINGS AS MAY BE REQUIRED TO COMPLY WITH ABOVE. NOTIFY INSPECTION AUTHORITIES IN SUFFICIENT TIME FOR THEM TO INSPECT WORK.
7. 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 ALLOWANCE WILL BE MADE LATER FOR ANY EXPENSE INCURRED THROUGH FAILURE TO MAKE THIS EXAMINATION. START OF WORK WILL BE DEEMED EVIDENCE OF ACCEPTANCE OF, AND SATISFACTION WITH, EXISTING CONDITIONS.
8. GUARANTEE ALL WORK FOR [12 MONTHS] FROM THE DATE OF ACCEPTANCE.
9. ENSURE THAT ALL PRECAUTIONS ARE TAKEN TO PROTECT ALL PERSONNEL FROM HAZARDS DURING THE WORK. PROTECT ALL EQUIPMENT FROM DAMAGE FROM ANY CAUSE INCLUDING WEATHER.
10. USE ONLY NEW, FULLY CSA AND ULC APPROVED FOR USE AS INSTALLED MATERIALS, AND TO MEET THIS SPECIFICATION IN ALL RESPECTS.
11. INSPECT ALL EQUIPMENT UPON DELIVERY AND NOTIFY PROJECT ENGINEER OF ANY DAMAGE OR DEFICIENCIES.
12. COORDINATE MATERIAL STORAGE WITH THE SITE SUPERINTENDENT AND OTHER TRADES.
13. CONTRACTOR TO NOTIFY PROJECT MANAGER IN WRITING MINIMUM OF THREE (3) WORKING DAYS BEFORE SCHEDULED SUBSTANTIAL COMPLETION TO ARRANGE INTERIM INSPECTION AND EQUIPMENT COMMISSIONING. NOTIFY PROJECT MANAGER IN WRITING OF ANY CHANGES IN SCHEDULE.
14. 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 IN A FIRST CLASS CONDITION.
15. THE WORK AS COVERED BY THESE SPECIFICATIONS AND PLANS IS INTENDED TO COMPLY EXACTLY WITH THE LATEST RULES AND REGULATIONS OF THE INSPECTION AUTHORITIES, AND THESE RULES ARE TO BE CONSIDERED AN INTEGRAL PART OF THESE SPECIFICATIONS. IN CASE OF CONFLICT, ANY RULING BY THE INSPECTION AUTHORITY SHALL BE FINAL. ALL CHANGES AND ALTERATIONS TO THE CONTRACTOR'S WORK REQUIRED BY AN AUTHORIZED INSPECTOR OR ANY AUTHORITY HAVING JURISDICTION DUE TO THE CONTRACTORS WORK SHALL BE CARRIED OUT AT NO EXPENSE TO THE OWNER.
16. MANUFACTURER'S INSTRUCTIONS REGARDING THE HANDLING, INSTALLATION AND TESTING OF EQUIPMENT SPECIFIED HEREIN SHALL BE CONSIDERED PART OF THIS SPECIFICATION.
17. PROVIDE ELECTRONIC COPY (PDF FORMAT) OF SHOP DRAWINGS FOR ALL SYSTEMS AND EQUIPMENT FOR REVIEW. SHOP DRAWINGS SHALL INCLUDE BUT NOT BE LIMITED TO, THE FOLLOWING INFORMATION:
 - a. FLOOR ANCHORING METHOD AND FOUNDATION TEMPLATE.
 - b. DIMENSIONED CABLE ENTRY AND EXIT LOCATIONS.
 - c. DIMENSIONED POSITION AND SIZE OF BUS.
 - d. OVERALL WEIGHT, LENGTH, HEIGHT AND DEPTH, GAUGE AND TYPE OF MATERIALS.
 - e. DIMENSIONED LAYOUT OF INTERNAL AND FRONT PANEL.
 - f. MOUNTED COMPONENTS.
 - g. ELECTRICAL CHARACTERISTICS AND PERFORMANCE DATA.
 - h. WIRING DIAGRAMS.
 - i. NAME OF CONTRACTOR C/W SIGNED REVIEW STAMP.
 - j. NAME OF COMPONENT, SERVICE OR SYSTEM.
 - k. NUMBER OF PAGES FOR EACH TYPED PAGE (IE. PG 1 OF 5).
18. SUBMIT ELECTRONIC (PDF FORMAT) COPY OF OPERATION & MAINTENANCE (O&M) MANUALS FOR APPROVAL. PROVIDE A COPY OF THE FOLLOWING IN THE MANUALS:
 - a. LETTER OF WARRANTY
 - b. ELECTRICAL SAFETY AUTHORITY (ESA) INSPECTION CERTIFICATE.
 - c. CITY INSPECTION REPORT
 - d. FIRE ALARM VERIFICATION REPORT
 - e. UPDATED PANEL SCHEDULES, C/W ELECTRICAL COMPANY'S NAME AND DATED
 - f. SHOP DRAWINGS
 - g. AS BUILDS
 - h. LOAD BALANCING REPORT.
 - i. MECHANICAL EQUIPMENT START UP REPORTS.
 - j. LIST OF SUPPLIERS C/W ADDRESS AND PHONE NUMBERS.
 - k. SEISMIC REVIEW LETTER.
19. SUPPLY ALL NECESSARY TOOLS, EQUIPMENT AND PERSONNEL AND PROVIDE DEMONSTRATION AND TRAINING TO OPERATING AND MAINTENANCE PERSONNEL IN OPERATING, CONTROLLING, ADJUSTING, TROUBLESHOOTING AND SERVICING OF ALL SYSTEMS AND EQUIPMENT DURING REGULAR WORK HOURS, PRIOR TO ACCEPTANCE.
20. AFTER AWARD OF CONTRACT, SUBMIT A DETAILED COST BREAKDOWN INDICATING MATERIAL AND LABOUR COSTS FOR EACH PORTION OF THE WORK, INCLUDING DEMOLITION, LIGHTING, POWER DISTRIBUTION, COMMUNICATIONS, FIRE ALARM, ETC. TO BE APPROVED BY THE ENGINEER.
21. EXISTING ELECTRICAL SYSTEMS HAVE BEEN ONLY PARTIALLY INDICATED. REGARD INFORMATION RELATED TO EXISTING INSTALLATION AS A GUIDE ONLY. DETERMINE STATUS, QUANTITIES AND LOCATION OF EQUIPMENT AND SYSTEMS, ON SITE, PRIOR TO COMMENCEMENT OF REMOVAL AND/OR EXTENSION OF SAME.
22. THE DRAWINGS SHALL BE CONSIDERED TO SHOW THE GENERAL CHARACTER AND SCOPE OF THE WORK AND NOT THE EXACT DETAILS OF THE INSTALLATION. THE INSTALLATION SHALL BE COMPLETE WITH ALL ACCESSORIES REQUIRED FOR A COMPLETE AND OPERATIVE INSTALLATION.
23. THESE ELECTRICAL DRAWINGS AND SPECIFICATIONS MUST BE READ IN CONJUNCTION WITH THE ARCHITECTURAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS.
24. THE WORD "PROVIDE" SHALL DENOTE "SUPPLY, INSTALL, CONNECT AND TEST".
25. LABELING:
 - a. FOR ALL NEW, RELOCATED AND EXISTING-TO-REMAIN ELECTRICAL DEVICES WITHIN THE CONTRACT AREA, PROVIDE CLEAR "BROTHER 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. FOR EXIT LIGHTS, PROVIDE [BLACK] LETTERING ON [RED] BACKGROUND.
 - b. PROVIDE LAMACOID LABELS ON DISCONNECT SWITCHES, MOTOR STARTERS, TRANSFORMERS AND PANELS. CLEARLY INDICATE EQUIPMENT CONTROLLED OR AREA SERVICED AS WELL AS FEEDER SOURCE, INDICATE FUSE SIZE AND TYPE ON FUSED DISCONNECTS SWITCHES. LETTERING TO BE BLACK ON WHITE BACKGROUND, MINIMUM 25mm [1"] HIGH.
 - c. TRACE EXISTING CIRCUITS AND UPDATE PANEL SCHEDULES.
26. PROVIDE CUTTING, PATCHING AND CORING OF ALL WALLS, CEILINGS AND OTHER SURFACES REQUIRED TO FIT THE ELECTRICAL EQUIPMENT. CHECK WITH BUILDING MANAGEMENT PRIOR TO CORE DRILLING AND CUTTING OF FLOOR SLAB. REGARDING BUILDING REQUIREMENTS AND POLICIES. PRIOR TO SLAB CUTTING OR CORING, FIRST SCAN THE SLAB AND COORDINATE DRILLING TO MINIMIZE CUTTING OF THE REINFORCING STEEL. FIRE STOP ALL NEW FIRE RATED PENETRATIONS. THE CONTRACTOR IS TO INCLUDE IN TENDER PRICE ALL WORK ASSOCIATED WITH CORE DRILLING AFTER NORMAL WORKING HOURS. OBTAIN WRITTEN VERIFICATION OF THE LOCATIONS FROM THE ARCHITECT PRIOR TO DRILLING. CUTTING TORCHES SHALL NOT BE USED FOR MAKING HOLES. PATCH ALL HOLES THROUGH SLAB WITH FIRE-STOP CAULKING (ULC LISTED). PATCHED SURFACES ARE TO BE PRIME FINISHED, READY FOR FINAL COVERING BY OTHERS.
27. SEISMIC RESTRAINT SYSTEM (SRS):
 - a. GENERAL:
 - i. PROVIDE DESIGN, SUPPLY AND INSTALLATION OF COMPLETE SRS FOR ALL SYSTEMS, EQUIPMENT SPECIFIED FOR INSTALLATION ON THIS PROJECT AS PER ONTARIO BUILDING CODE (2006) [NATIONAL BUILDING CODE 2010], CSA S812-06(R-2011).
 - ii. DESIGN TO BE BY PROFESSIONAL ENGINEER SPECIALIZING IN DESIGN OF SRS AND REGISTERED IN PROVINCE OF ONTARIO. INCLUDE ALL COSTS ASSOCIATED WITH THIS WORK AS IT RELATES TO DIVISION [16] [26] [27] [28] INSTALLATIONS. SUBMIT DESIGN SKETCHES C/W PROFESSIONAL STAMP PRIOR TO START OF INSTALLATIONS, C/W INSTALLATION REQUIREMENTS.
 - iii. ACCEPTABLE MATERIALS: KORBAND-SAMPSON, MASON INDUSTRIES, TELCOUSTICS, VIBRA-SONIC CONTROL, VIBRON.
 - iv. SUBMITTALS TO INCLUDE FULL DETAILS OF DESIGN CRITERIA.
 - v. SUBMIT ADDITIONAL COPY OF SHOP DRAWINGS AND PRODUCT DATA TO STRUCTURAL ENGINEER FOR REVIEW OF CONNECTION POINTS TO BUILDING STRUCTURE.
 - b. INSTALL VIBRATION ISOLATION EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND ADJUST MOUNTINGS TO LEVEL EQUIPMENT. ENSURE PIPE, DUCT AND ELECTRICAL CONNECTIONS TO ISOLATED EQUIPMENT DO NOT REDUCE SYSTEM FLEXIBILITY. ENSURE THAT PIPE, CONDUIT AND DUCT PASSING THROUGH WALLS AND FLOORS DO NOT TRANSMIT VIBRATIONS.
28. ANCHORING METHODS:
 - a. ELECTRICAL EQUIPMENT FIXTURES, CONDUIT AND CABLEING IS TO BE SECURELY ANCHORED OR FASTENED TO THE BUILDING STRUCTURE USING DRILLED HOLE WEDGE ANCHORS FOR CONCRETE STRUCTURES OR STEEL CLAMPS FOR STEEL STRUCTURES.
 - i. AIR, FUEL OR POWDER ACTUATED DEVICES OR ANY OTHER EQUIVALENT TYPE OF FASTENING DEVICES ARE NOT TO BE USED.
 - ii. WHERE ANCHORING METHOD FORMS PART OF SEISMIC RESTRAINT REQUIREMENTS, ANCHORING METHODS TO COMPLY WITH SEISMIC RESTRAINT SYSTEMS (SRS).
 - b. LUMINAIRE SUPPORTS:
 - i. FOR RECESSED OR SURFACE MOUNTED LIGHTING IN SUSPENDED CEILING INSTALLATIONS, SUPPORT LUMINAIRES INDEPENDENTLY FROM CEILING, BY MEANS OF A MINIMUM OF TWO CHAIN HANGERS BOLTED TO DIAGONAL CORNERS OF THE FIXTURE BODY AND SECURED TO BUILDING STRUCTURE IN ACCORDANCE WITH ESA, AND SEISMIC RESTRAINT SYSTEMS (SRS).
 - ii. FOR GYMNASIUM OR OTHER TYPE OF HIGH-BAY LIGHT FIXTURES, PROVIDE A SAFETY CABLE BETWEEN FIXTURE HOUSING AND LENS OR REFRACTOR.

29. GROUNDING AND BONDING:
 - a. PROVIDE GROUNDING AND BONDING OF ALL EQUIPMENT WITH APPROVED FITTINGS AND CONDUCTORS OF AMPLE CAPACITY IN ACCORDANCE WITH 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.
30. WIRING AND RACEWAYS:
 - a. ALL INTERIOR WIRING SHALL BE COPPER RW90 T90 FOR 120V #12 CONDUCTOR MINIMUM.
 - b. ALL EXTERIOR UNDERGROUND WIRING TO BE COPPER RWJ-90, MINUS 40 C RATED.
 - c. AC-90 (BX) MAY BE USED IN REMOVABLE CEILINGS AND METAL PARTITION WALLS, MAXIMUM LENGTH 3 METERS.
 - d. ALL NEW RACEWAYS SHALL BE THIN WALL ELECTRICAL METALLIC TUBING (EMT) RAIN-TIGHT COUPLING AND CONN. UNLESS OTHERWISE INDICATED. CONDUITS TO BE COMPLETE WITH STEEL SET-SCREW COUPLINGS AND CONNECTORS AND NYLON BUSHING.
 - e. USE LIQUID TIGHT FLEXIBLE METAL CONDUIT FOR CONNECTION TO MOTORS.
 - f. USE LIQUID TIGHT FLEXIBLE METAL CONDUIT FOR CONNECTION TO EQUIPMENT IN DAMP, WET OR CORROSIVE LOCATIONS.
 - g. SURFACE CONDUIT TO RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES.
 - h. ALL CONDUITS AND JUNCTION BOXES TO BE ANCHORED TO THE BUILDING STRUCTURE.
 - i. PROVIDE A POLYPROPYLENE PULL STRING IN ALL EMPTY CONDUITS.
 - j. EXISTING FEEDERS RELOCATED UNDER THIS CONTRACT TO BE REWIRED: SPICE NEW WIRE TO EXISTING WIRE FROM JUNCTION BOX TO JUNCTION BOX, OR FROM JUNCTION BOX TO EXISTING EQUIPMENT.
 - k. CONTRACTOR MAY RE-USE EXISTING CONDUIT AND/OR GRID PULL BOXES WHERE SUITABLE FOR RE-USE WITH NEW OR RELOCATED RUNS.
 - l. REMOVE AND DISPOSE OF ANY REDUNDANT EXISTING WIRING.
 - m. 120V CIRCUITS OF LENGTH GREATER THAN 25m [85'] TO BE #10 AWG MINIMUM OR AS REQUIRED TO LIMIT VOLTAGE DROP WITHIN CODE SPECIFIED VALUE.
 - n. MINIMUM SIZE CONDUIT TO BE 21mm [3/4"] UNLESS SPECIFIED OTHERWISE.
31. ALL NEW SURFACE MOUNTED EQUIPMENT IS TO BE SPRINKLERPROOF, EIMAC TYPE 2, IN SPRINKLERED AREAS.

32. DEVICES: SWITCHES AND RECEPTACLES TO BE SPECIFICATION GRADE WITH COVER PLATES AND COLOUR TO CONFORM WITH ARCHITECTURAL DESIGNER'S DRAWINGS. INSTALL & MOUNT TO CODES AND STANDARDS. COORDINATE EXACT LOCATIONS WITH ARCHITECTURAL DESIGNER'S DRAWINGS.

WIRING DEVICES COLOUR CODING:

DEVICE	COVER	PLATE
STANDARD RECEPTACLE	AS PER ARCH/DESIGNER	AS PER ARCH/DESIGNER-STAINLESS STEEL
ISOLATED GROUND RECEPT.	AS PER ARCH/DESIGNER	AS PER ARCH/DESIGNER-STAINLESS STEEL
LIGHT SWITCH	AS PER ARCH/DESIGNER	AS PER ARCH/DESIGNER-STAINLESS STEEL

CONFIRM DESIRED HEIGHT WITH CLIENT/ARCHITECT/INTERIOR DESIGNER

33. MOUNTING HEIGHTS:

UNLESS NOTED OTHERWISE, MOUNTING HEIGHT FOR ALL ELECTRICAL DEVICES SHALL MEET "BARRIER-FREE" CODE REQUIREMENTS:

- a. 400mm [16"] A.F.F. FOR RECEPTACLES, VOICE/DATA OUTLETS, ETC.
- b. 1200mm [48"] A.F.F. FOR LIGHT SWITCHES, THERMOSTATS, ETC.
- c. 175mm [6-3/4"] ABOVE TOP OF COUNTERS OR COUNTER BACK SPLASHES.
- d. 1200mm [48"] A.F.F. FOR PULL STATIONS
- e. 2100mm [82-1/2"] A.F.F. FOR WALL MOUNTED SPEAKERS, BELLS, CLOCKS, ETC.

34. LUMINAIRES:

- a. PROVIDE LIGHTING FIXTURES, COMPLETE WITH LAMPS, AS INDICATED IN LIGHT FIXTURE SCHEDULE.

35. FIXTURE INSTALLATION: DO NOT MOUNT FIXTURES ABOVE PIPES, DUCTS OR EQUIPMENT. CHECK LAYOUTS OF WORK BY OTHER TRADES ON PROJECTS AND PLAN COOPERATIVELY WITH OTHERS TO AVOID CONFLICT. PROVIDE LONGER HANGERS TO CLEAR OBSTRUCTIONS, IN EVENT OF UNAVOIDABLY TIGHT LOCATIONS. PROVIDE CHAIN HANGERS FOR ALL FIXTURES IN T-BAR CEILINGS.

36. EXIT LIGHTS:

- a. EXIT:
 - i. TO CSA C22.2 No.141[-02][[-10] AND CSA C860.
 - ii. HOUSING: EXTRUDED ALUMINUM, BRUSHED ALUMINUM FINISH.
 - iii. FACE AND BACK PLATES: EXTRUDED ALUMINUM.
 - iv. LAMPS: LED WITH 25-YEAR RATED LIFE.

- b. PICTOGRAM: ALUMINUM FRAME, OPAL DIFFUSER PANEL, PICTOGRAM PANEL WITH MULTIPLE FILMS FOR DIRECTION SELECTION, AND CLEAR PROTECTIVE PANEL. PICTOGRAM PANEL SHALL CONSIST OF GREEN PICTOGRAM AND WHITE GRAPHIC SYMBOL, MEETING THE VISIBILITY SPECIFICATIONS REFERRED TO IN ISO 3864-1, AND CONFORM TO THE DIMENSIONS INDICATED IN ISO 7010.
- c. SUITABLE FOR 120V NORMAL SUPPLY AND 12VDC EMERGENCY SUPPLY.
- d. DIE CAST MOUNTING BRACKET FOR WALL, CEILING, OR END MOUNTING AS INDICATED.
- e. PROVIDE CIRCUIT LABELS AT ALL EXIT SIGNS.
- f. EQUAL TO: EMERGI-LITE EA SERIES.

37. UNIT EQUIPMENT FOR EMERGENCY LIGHTING:

- a. REMOVE LIGHTING HEADS TO BE [5W], [12V], 100 HOUR MR16 LED LAMPS IN DIE CAST METAL HEAD WITH FULLY ADJUSTABLE AMING. RUN WIRING IN CONDUIT MINIMUM #10 AWG OR AS RECOMMENDED BY MANUFACTURER, VOLTAGE DROP AT ANY REMOVE HEAD SHALL NOT EXCEED 5%.
- b. FEED EMERGENCY SOCKET IN EXIT LIGHTS FROM A BATTERY UNIT, AND CONNECT REMOVE LIGHTING HEADS.

38. FIRE ALARM:

- a. EXISTING FIRE ALARM SYSTEM IS EDWARDS-6616
- b. ALL NEW FIRE ALARM SYSTEM COMPONENTS TO BE CAN/ULC APPROVED AND MATCH EXISTING.
- c. FIRE ALARM MAINTENANCE CONTRACTOR IS TOTAL FIRE PROTECTION.
- d. ALL NEW DEVICES TO BE LABELED WITH CORRECT IDENTIFICATION, INCLUDING THE LOOP AND THE DEVICE NUMBER, ON THE BASE OF THE DEVICE IN ACCORDANCE WITH BUILDING STANDARD. LABELING OF THE DEVICE MUST BE VISIBLE ON THE OUTSIDE FOR EASY IDENTIFICATION BY MAINTENANCE PERSONNEL.
- e. ALL NEW DEVICES TO BE VERIFIED BY MANUFACTURER & FIRE ALARM AGENCY RESPONSIBLE FOR MAINTENANCE OF THE SYSTEM.
- f. THE FIRE ALARM DEVICE LEGEND MUST BE UPDATED IMMEDIATELY TO ADD NEW DEVICES AND TO REMOVE ANY DEVICES THAT HAVE BEEN ELIMINATED AS A RESULT OF THE PROJECT. AT THE COMPLETION OF THE PROJECT AN UPDATED FIRE ALARM ADDRESSABLE DEVICE LEGEND FOR THE BUILDING MUST BE SUBMITTED TO THE PROJECT MANAGER.
- g. THE SEQUENCE OF OPERATIONS OF FIRE SAFETY SYSTEMS MUST BE PROVIDED TO THE PROJECT MANAGER (ie. DOOR HOLDERS, EPO SHUTDOWNS, FAN SHUTDOWNS, DAMPER OPERATION, AC SHUTDOWNS ETC.)
- h. ALL WORK BEING CARRIED OUT ON THE FIRE SAFETY SYSTEMS MUST BE RECORDED IN THE LOGBOOK EVERY DAY, IN ADDITION TO THE REQUIREMENT OF A SIGNED WORK PERMIT.
- i. IF THE CONTRACTOR DOING WORK ON THE FIRE ALARM SYSTEM IS NOT THE "MAINTENANCE" CONTRACTOR, THE MAINTENANCE CONTRACTOR MUST BE ADVISED IN ADVANCE AND BE PRESENT AT ALL OR PART OF THE VERIFICATION FOR THE PURPOSES OF ACCEPTING THE WORK THAT WAS CARRIED OUT BY THE PROJECT CONTRACTOR. A MINIMUM OF [THREE (3)] HOURS SHALL BE CARRIED FOR THE MAINTENANCE CONTRACTOR.
- j. NOTIFY AND DEMONSTRATE THE COMPLETE SYSTEM TO OWNER'S AND BUILDING INSPECTION'S REPRESENTATIVES ONLY AFTER TESTING AND VERIFICATION PERFORMANCES HAVE BEEN COMPLETED AND ALL DEFICIENCIES RECTIFIED. IN THEIR PRESENCE, DEMONSTRATE THE PROPER FUNCTIONING OF THE SYSTEM. HAVE SYSTEM MANUFACTURER'S CERTIFIED TECHNICIAN PRESENT.

39. DISCONNECT SWITCHES:

- a. HEAVY DUTY FUSIBLE AND NON-FUSIBLE DISCONNECT SWITCH IN CSA ENCLOSURE 2 (SPRINKLER PROOF), SIZED AS INDICATED, CSA 3 ENCLOSURE IN OUTDOOR OR DAMP LOCATIONS. ARC QUENCHER AND VISIBLE BLADE, QUICK MAKE, QUICK BREAK TYPE.
- b. PROVISION FOR PADLOCKING IN [ON-OFF SWITCH POSITION.
- c. MECHANICALLY INTERLOCKED DOOR TO PREVENT OPENING WHEN HANDLE IN ON POSITION.
- d. FUSES: SIZE AS INDICATED, HRC (TIME DELAY TYPE).

40. MOTOR STARTERS:

- a. MANUAL MOTOR STARTERS: HEAVY DUTY C/W ONE OVERLOAD PER PHASE, PILOT LIGHT, QUICK MAKE, QUICK BREAK TOGGLE SWITCH, LOCKING TABS IN "OFF" POSITION. CSA CERTIFIED AS A DISCONNECTING MEANS.

41. MECHANICAL EQUIPMENT WIRING: PROVIDE ALL WIRING TO MECHANICAL EQUIPMENT, OBTAIN MECHANICAL SHOP DRAWINGS AND RECONFIRM FEEDER AND BREAKER REQUIREMENTS PRIOR TO INSTALLATION.

42. PANELBOARDS:

- a. INSTALL CIRCUIT BREAKERS IN PANELBOARDS BEFORE SHIPMENT.
- b. IN ADDITION TO CSA REQUIREMENTS MANUFACTURER'S NAMEPLATE MUST SHOW FAULT CURRENT THAT PANEL INCLUDING BREAKERS HAS BEEN BUILT TO WITHSTAND.
 - i. 250V BUSES AND BREAKERS RATED FOR 100A AND 144A (SYMMETRICAL) INTERRUPTING CAPACITY MINIMUM RESPECTIVELY, OR AS INDICATED OTHERWISE.
- c. 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.
- d. MAINS, NUMBER OF CIRCUITS, AND NUMBER AND SIZE OF BRANCH CIRCUIT BREAKERS AS INDICATED.
- e. TWO KEYS FOR EACH PANELBOARD AND KEY PANELBOARDS ALIKE.
- f. MAINS SUITABLE FOR BOLT-ON BREAKERS.
- g. TRM WITH CONCEALED FRONT BOLTS AND RINGS. 14 GAUGE UP TO 24 CIRCUIT, 12 GAUGE FOR LARGER PANELS.
- h. DISTRIBUTION PANELS SHALL BE MINIMUM 12 GAUGE CONSTRUCTION.
- i. COPPER BUSSING AND GROUND.

47. MOLDED CASE CIRCUIT BREAKERS:

- a. BOLT-ON MOLDED CASE CIRCUIT BREAKER: QUICK-MAKE, QUICK-BREAK TYPE, FOR MANUAL AND AUTOMATIC OPERATION WITH TEMPERATURE COMPENSATION FOR 40 C AMBIENT.
- b. COMMON-TRIP BREAKERS WITH SINGLE HANDLE FOR MULTI-POLE APPLICATIONS.
- c. CIRCUIT BREAKERS WITH INTERCHANGEABLE TRIPS AS INDICATED.
- d. MOLDED CASE CIRCUIT BREAKER TO OPERATE AUTOMATICALLY BY MEANS OF THERMAL AND MAGNETIC TRIPPING DEVICES TO PROVIDE INVERSE TIME CURRENT TRIPPING AND INSTANTANEOUS TRIPPING FOR SHORT CIRCUIT PROTECTION.

48. FIELD QUALITY CONTROL

- a. CONDUCT AND PAY FOR THE FOLLOWING TESTS:
 - i. POWER GENERATION, 600V AND 120V POWER DISTRIBUTION INCLUDING PHASING, VOLTAGE, GROUNDING AND LOAD BALANCING.
 - ii. LIGHTING AND CONTROLS
 - iii. MOTORS, HEATERS AND ASSOCIATED CONTROL EQUIPMENT
 - iv. INSULATION INTEGRITY TESTING
- b. SYSTEMS: FIRE ALARM, COMMUNICATION, ACCESS CONTROL AND SECURITY, PUBLIC ADDRESS.
- c. SUBMIT TEST PROCEDURES AND INFORM ENGINEER AT LEAST 7 DAYS BEFORE SCHEDULED TESTS. ENGINEER TO WITNESS TESTS AT HIS DISCRETION.

PA CONTRACTOR CONTACT INFO

NAME: LEE WEBER
EMAIL: leemonweber@gmail.com
cell number: 226-789-1171

Client

DATE	REVISION	REF
2021-01-14	ISSUED FOR CONSTRUCTION	
2020-07-24	ISSUED FOR TENDER	--
2020-05-27	ISSUED FOR PERMIT	--
2020-05-08	ISSUED FOR REVIEW	--

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Project/north Nord du projet	Seed/Scéou
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Project/Projet

**ARLINGTON WOODS
FREE METHODIST CHURCH
RENOVATION**

225 McClellan Rd, Ottawa, ON K2H 8N5

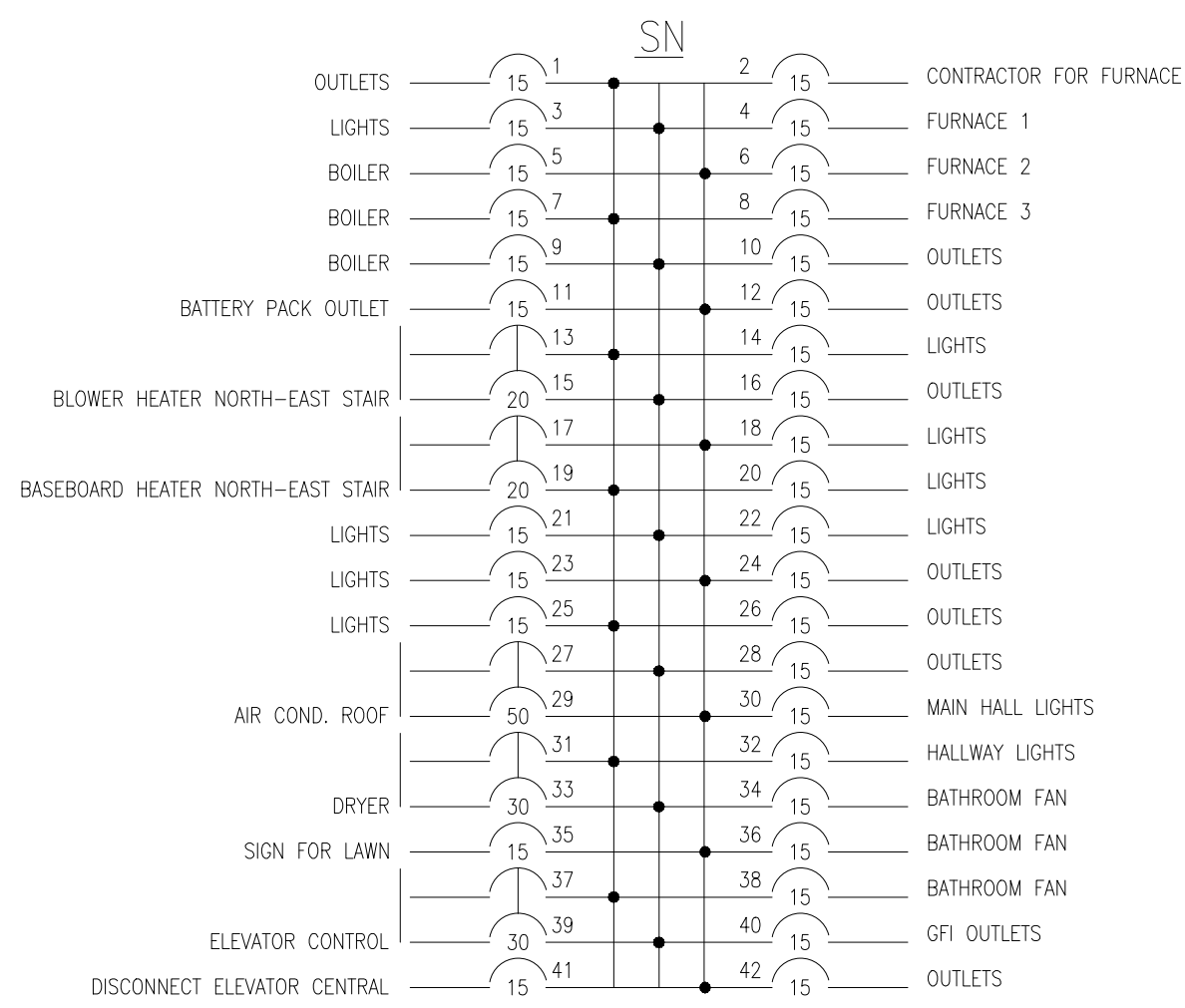
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**ELECTRICAL
SPECIFICATIONS**

Scale Échelle	AS NOTED	Project no./No. du projet 2019-333-1
Design by Conçu par	J.ANTALA	Drawing/Dessein
Drawn by Dessiné par	J.ANTALA	E2
Reviewed by Examiné par	D.VYAS	
Date	JANUARY 2021	Revision no: Acad file/Fichier:

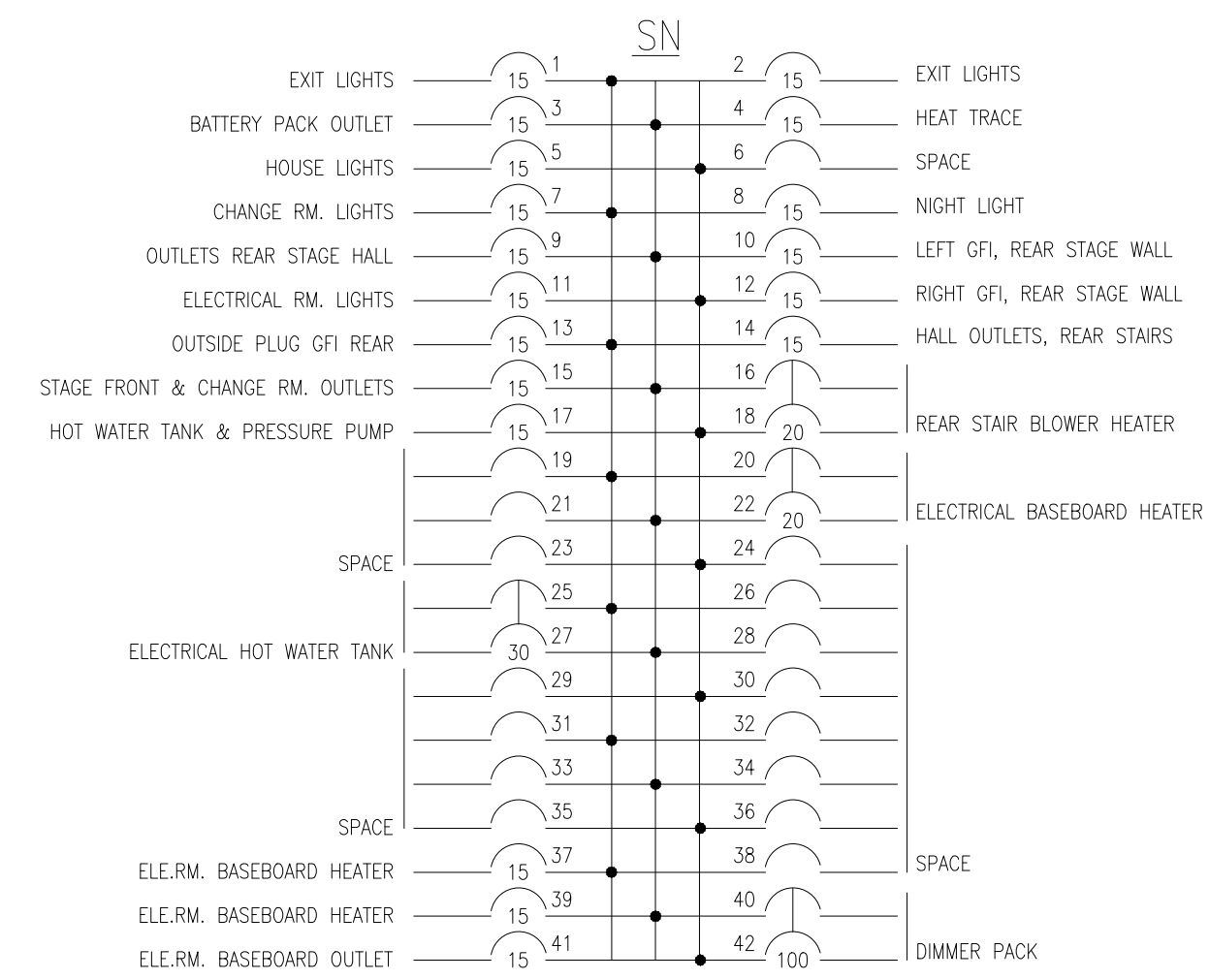
**MECHANICAL ROOM
EXISTING PANEL A**

VOLTAGE	120/208V
PHASE	3ø
WIRE	4W
RATING AMPS	225A
TRIM	SURFACE



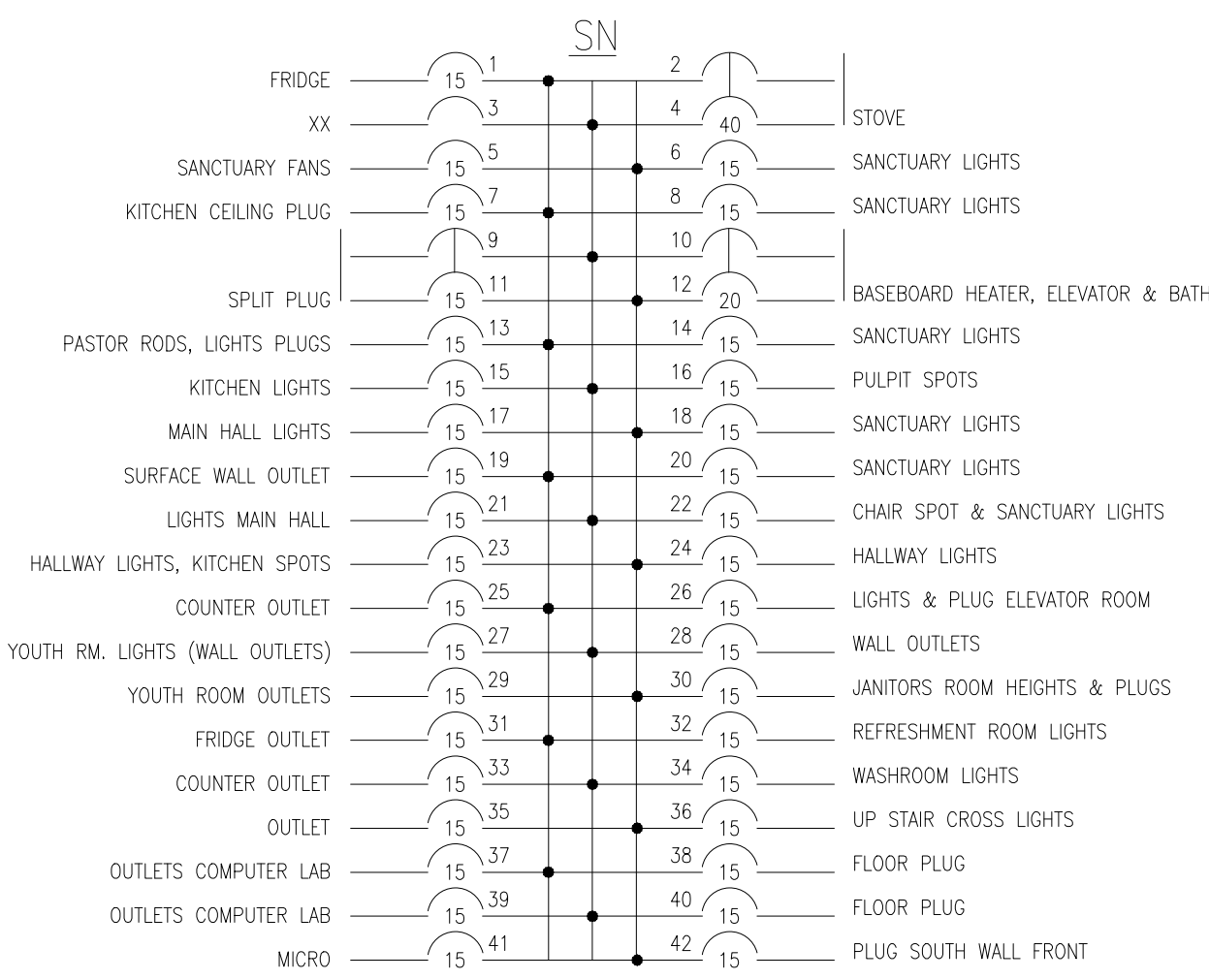
**ELECTRICAL ROOM PANEL #1
EXISTING PANEL EB**

VOLTAGE	120/208V
PHASE	3ø
WIRE	4W
RATING AMPS	225A
TRIM	SURFACE



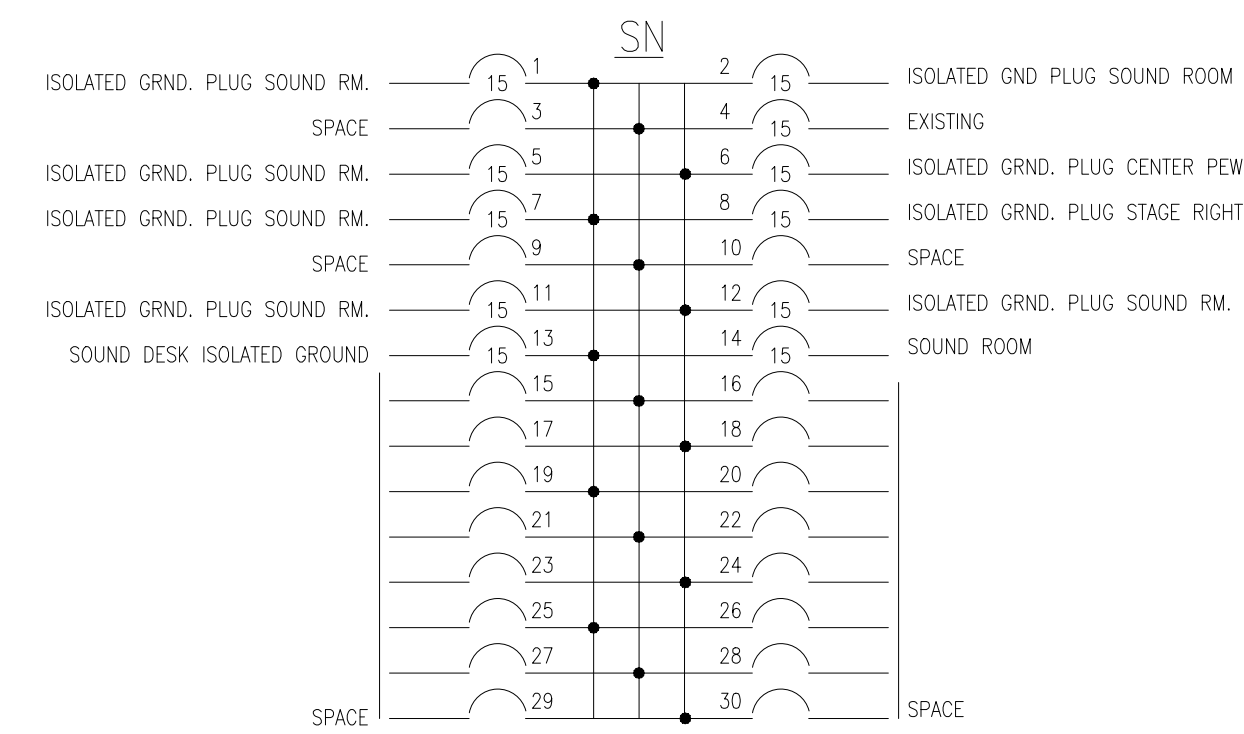
**YOUTH ROOM PANEL
EXISTING PANEL Y**

VOLTAGE	120/208V
PHASE	3ø
WIRE	4W
RATING AMPS	225A
TRIM	SURFACE



**PRAYER ROOM
EXISTING PANEL P**

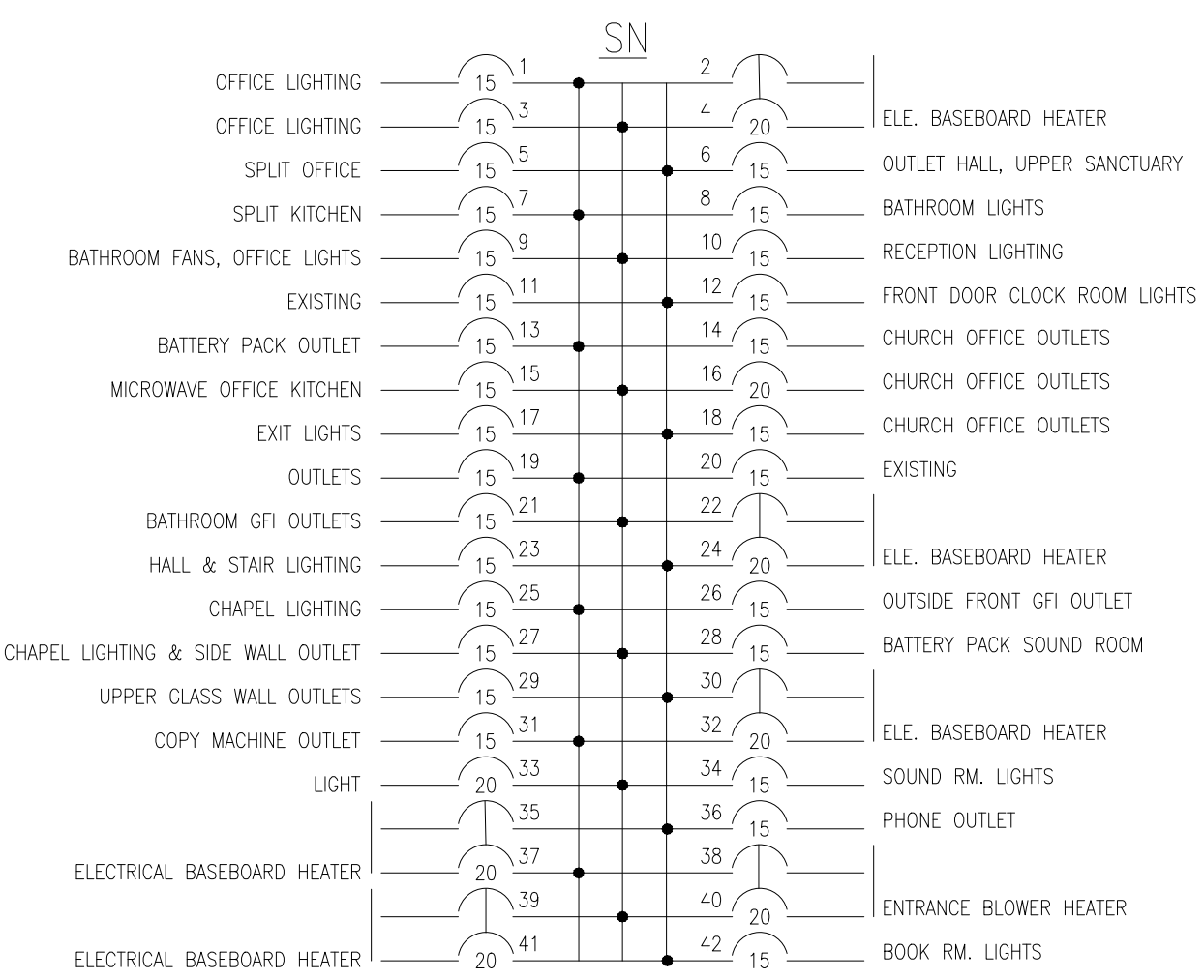
VOLTAGE	120/208V
PHASE	3ø
WIRE	4W
RATING AMPS	225A
TRIM	FLUSH



TYPICAL FOR ALL PANELS
NOTE:- ELECTRICAL CONTRACTOR TO TRACE EXISTING CIRCUIT & UPDATE PANEL DIRECTORY.
THERE ARE NO PANEL NAME ON SITE, CONTRACTOR TO ADD PANEL NAME LABELS AS INDICATED ON DRAWINGS.

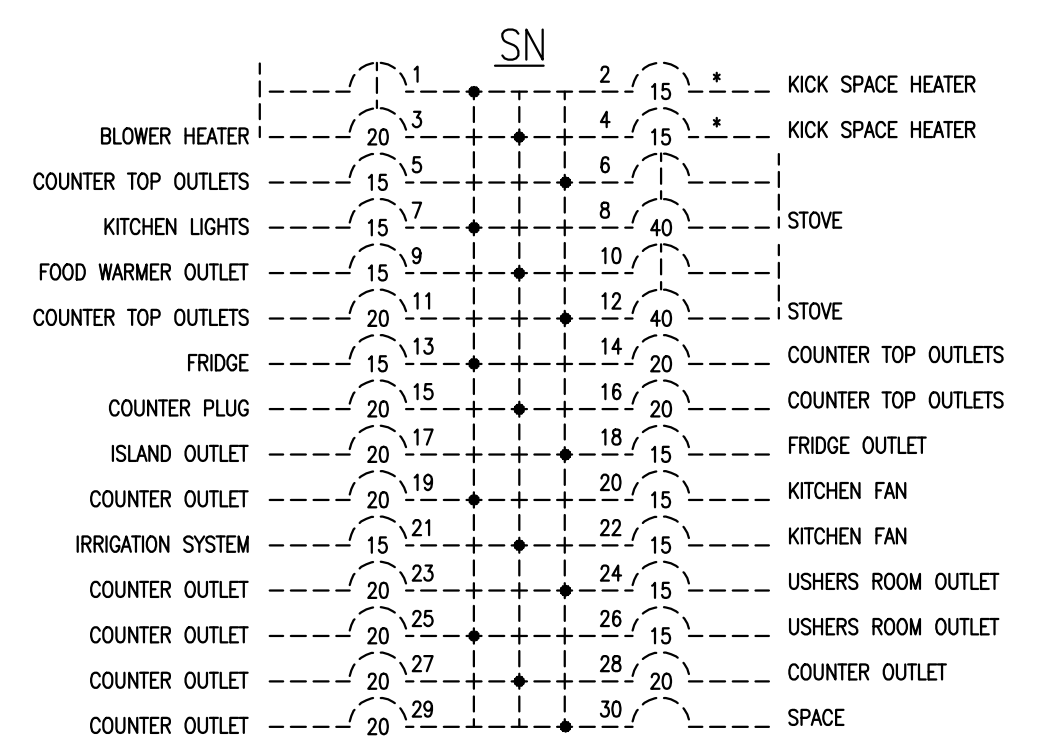
**2ND FL. HALLWAY PNL
EXISTING PANEL H**

VOLTAGE	120/208V
PHASE	3ø
WIRE	4W
RATING AMPS	225A
TRIM	SURFACE



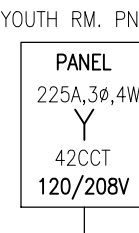
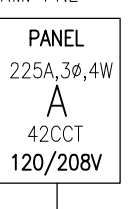
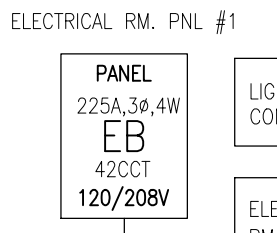
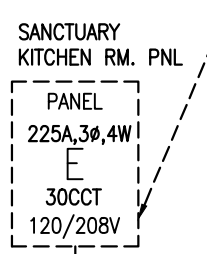
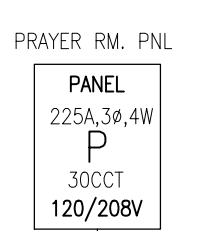
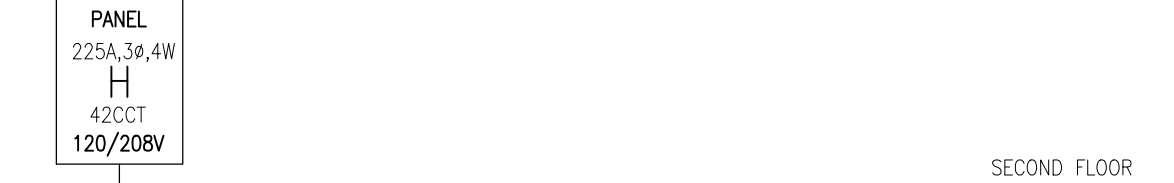
**SANCTUARY KITCHEN RM. PNL
EXISTING PANEL E**

VOLTAGE	120/208V
PHASE	3ø
WIRE	4W
RATING AMPS	125A
TRIM	FLUSH

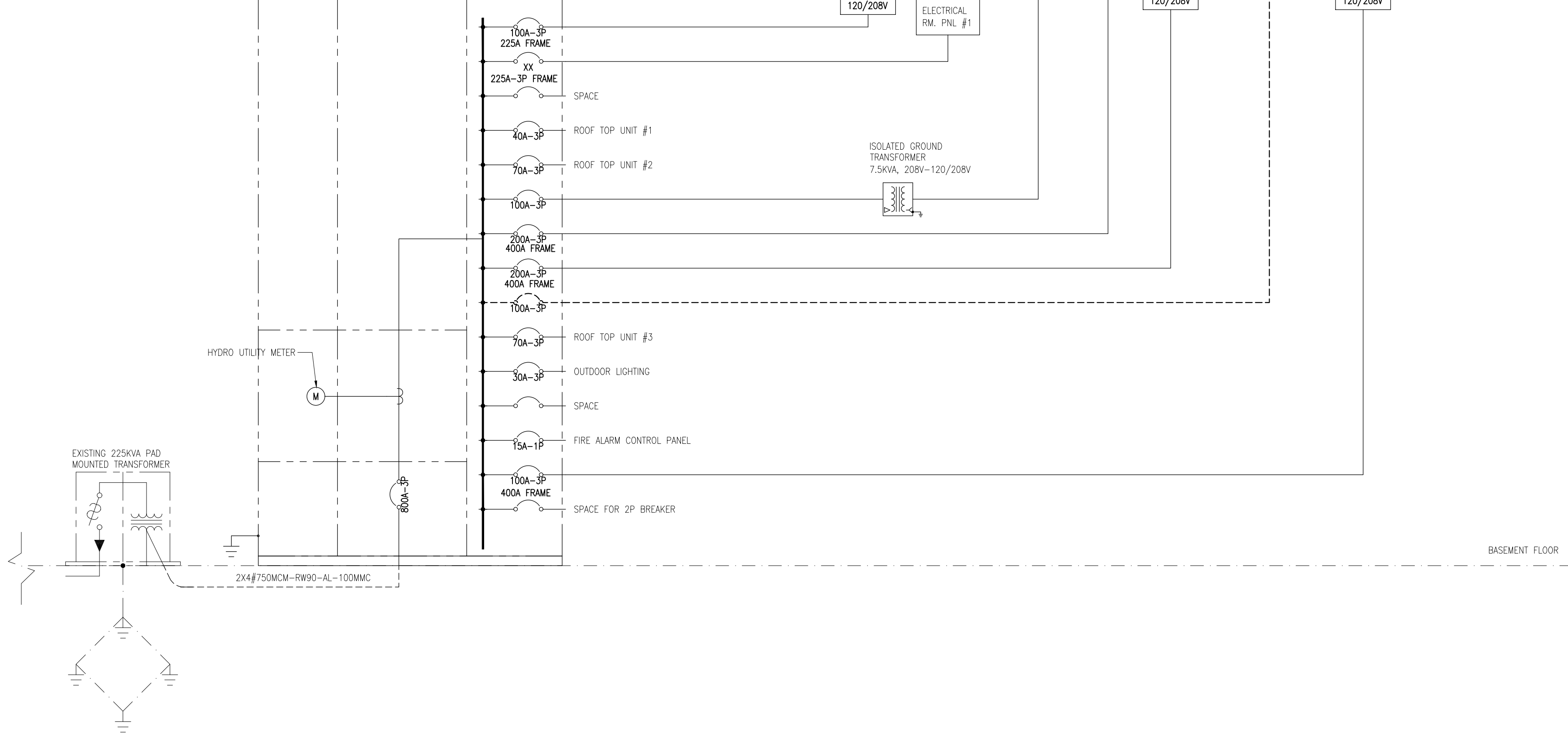


* REPLACE TWO 15A-1P BREAKER WITH ONE 15A-2P BREAKER FOR KICK SPACE HEATER

2ND FL. HALLWAY PNL



NOTE:- ELECTRICAL CONTRACTOR TO VERIFY EXISTING TRIP SETTING & LABEL ON SWITCH BOARD.
WESTINGHOUSE SWITCHBOARD
800A, 120/208V, 3ø, 4W SERVICE ENTRANCE SWITCHBOARD



Client

DATE	REVISION	REF
2021-01-14	ISSUED FOR CONSTRUCTION	
2020-07-24	ISSUED FOR TENDER	--
2020-05-27	ISSUED FOR PERMIT	--
2020-05-08	ISSUED FOR REVIEW	--

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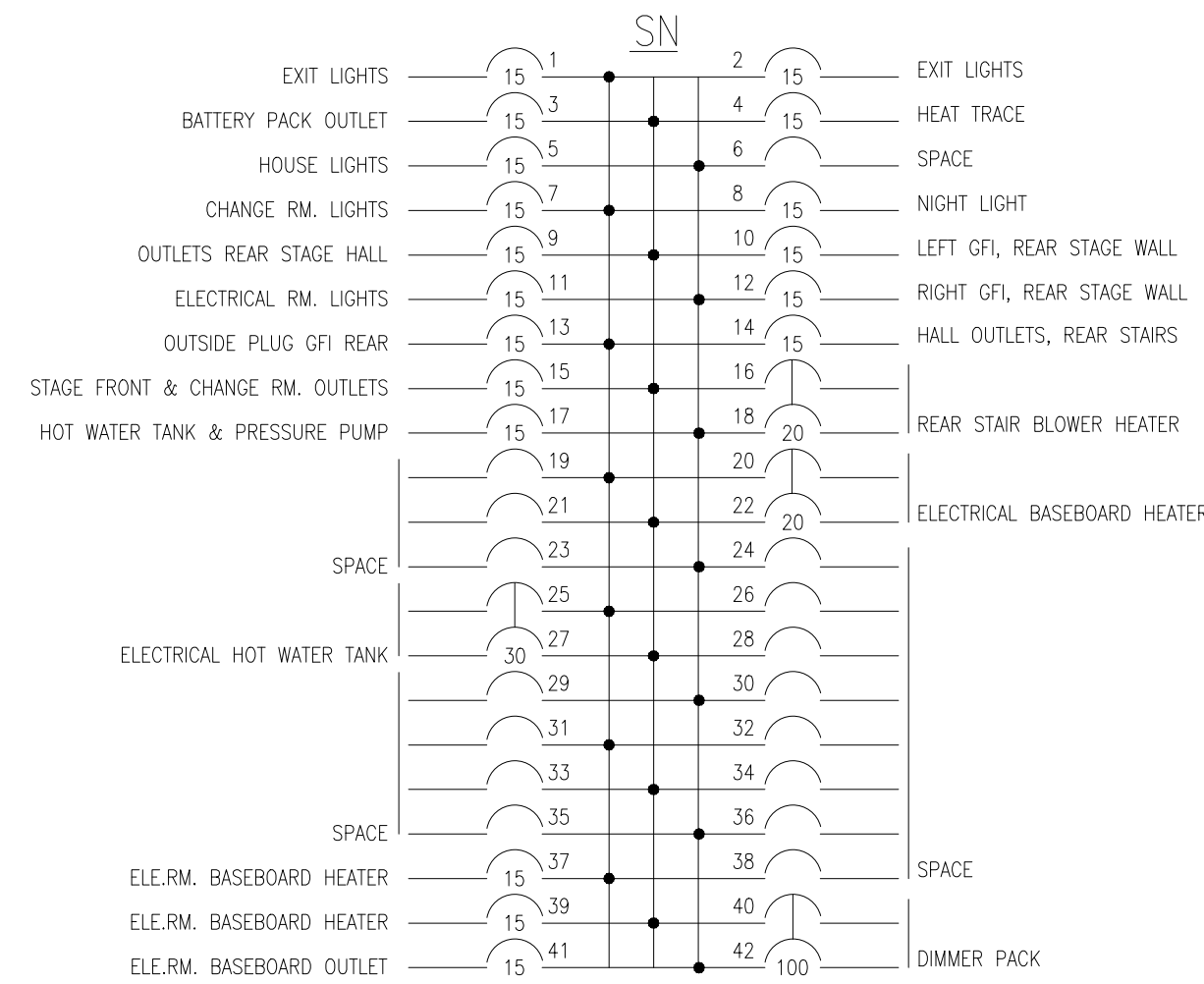
Project north Nord du projet	Seal/Scieu
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Project/Projet
**ARLINGTON WOODS
FREE METHODIST CHURCH
RENOVATION**
225 McClellan Rd, Ottawa, ON K2H 8N5
Drawing titre/Titre du dessin
**ELECTRICAL DEMOLITION
WORK PART RISER DIAGRAM
& PANEL SCHEDULE**

Scale Échelle	AS NOTED 2019-333-1	Project no./No. du projet 2019-333-1
Design by Conçu par	J.ANTALA	Drawing/Dessin
Drawn by Dessiné par	J.ANTALA	E3
Reviewed by Examiné par	D.VYAS	
Date	JANUARY 2021	Revision no. Acad file/Fichier: 10

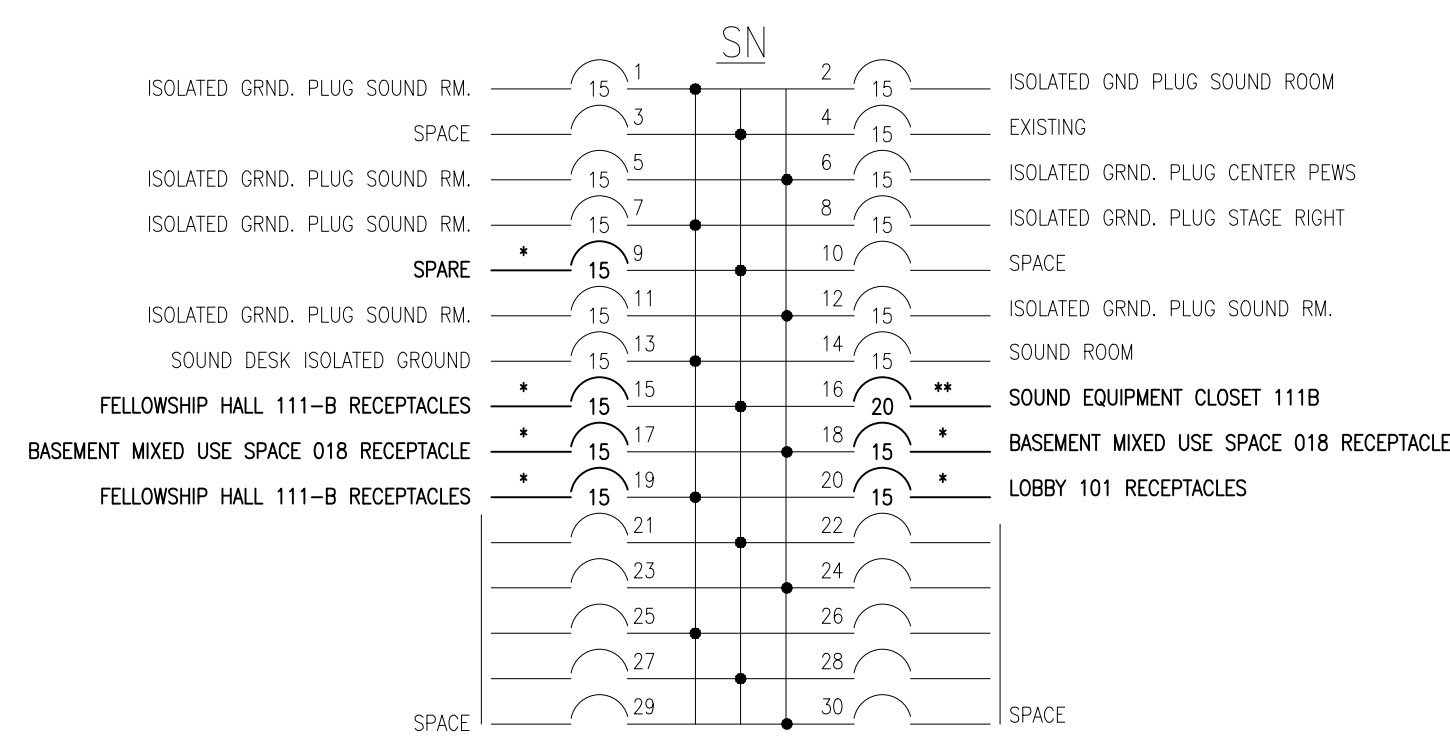
**ELECTRICAL ROOM PANEL #1
EXISTING PANEL EB**

VOLTAGE	120/208V
PHASE	3Ø
WIRE	4W
RATING AMPS	225A
TRIM	SURFACE



**PRAYER ROOM
EXISTING PANEL P**

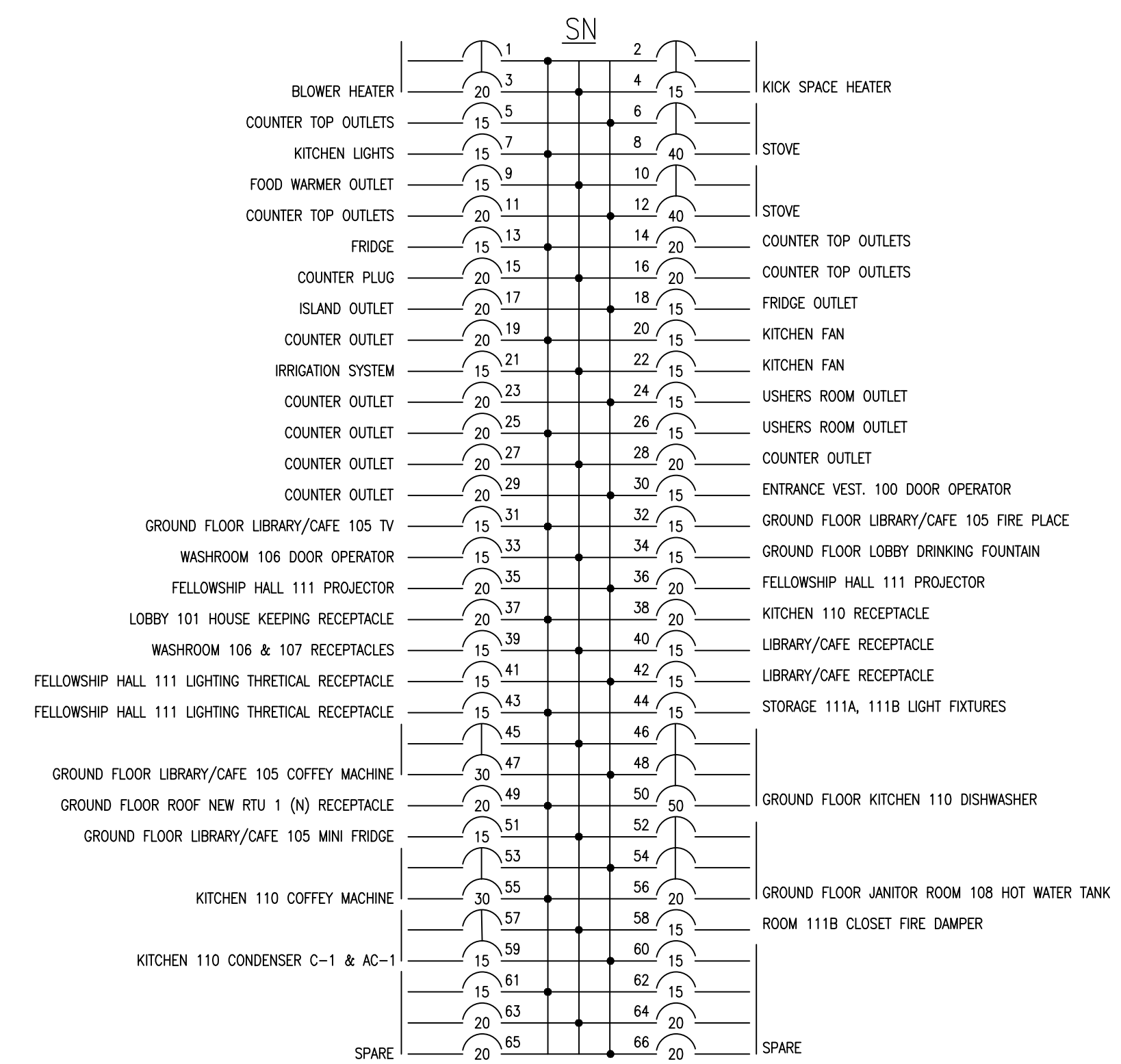
VOLTAGE	120/208V
PHASE	3Ø
WIRE	4W
RATING AMPS	225A
TRIM	FLUSH



- * PROVIDE NEW 6X15A-1P BREAKERS AS INDICATED IN PANEL SCHEDULE
- ** PROVIDE NEW 1X20A-1P BREAKERS AS INDICATED IN PANEL SCHEDULE

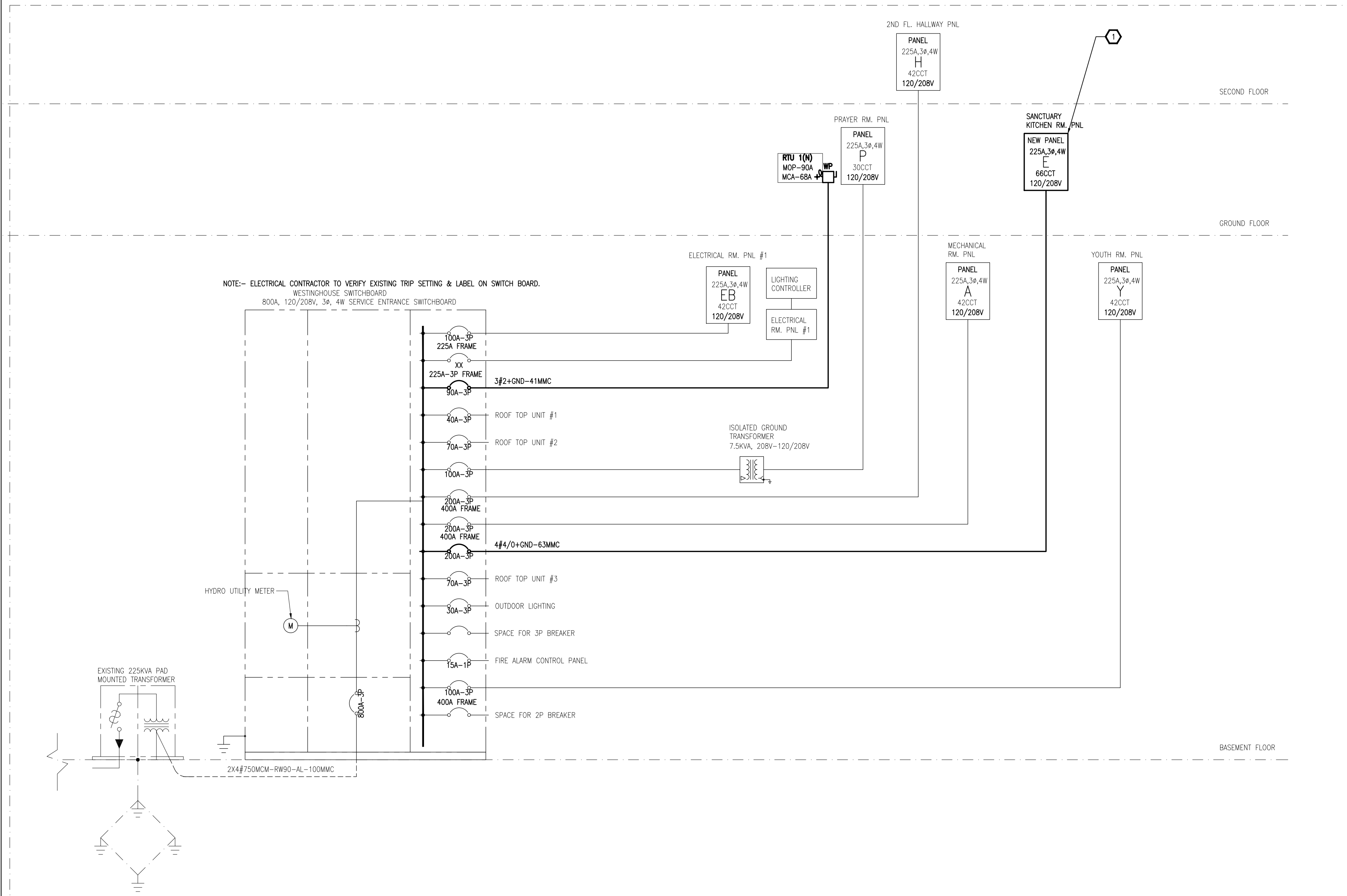
**SANCTUARY KITCHEN RM. PNL
NEW PANEL E**

VOLTAGE	120/208V
PHASE	3Ø
WIRE	4W
RATING AMPS	225A
TRIM	FLUSH



NOTE:- PROVIDE NEW BREAKERS AS INDICATED IN PANEL SCHEDULE. RECONNECT ALL EXISTING TO REMAIN CIRCUIT.

TYPICAL FOR ALL PANELS
NOTE:- ELECTRICAL CONTRACTOR TO TRACE EXISTING CIRCUIT & UPDATE PANEL DIRECTORY.
THERE ARE NO PANEL NAME ON SITE, CONTRACTOR TO ADD PANEL NAME LABELS AS INDICATED ON DRAWINGS.



GENERAL NOTES

1. PROVIDE NEW 200A, 3POLE BREAKER IN MAIN SWITCHBOARD C/W NEW FEEDER. PROVIDE NEW PANEL C/W BRANCH BREAKERS, CONDUIT & WIRING. WIRE ALL NEW & EXISTING TO REMAIN BRANCH WIRING. PROVIDE OVERSIZE COVER FOR NEW PANEL. CUT & PATCH EXISTING WALL BY GENERAL CONTRACTOR.

DATE	REVISION	REF
2021-01-14	ISSUED FOR CONSTRUCTION	
2021-01-05	ISSUED FOR POST TENDER ADDENDUM E1	
2020-07-24	ISSUED FOR TENDER	--
2020-05-27	ISSUED FOR PERMIT	--
2020-05-08	ISSUED FOR REVIEW	--

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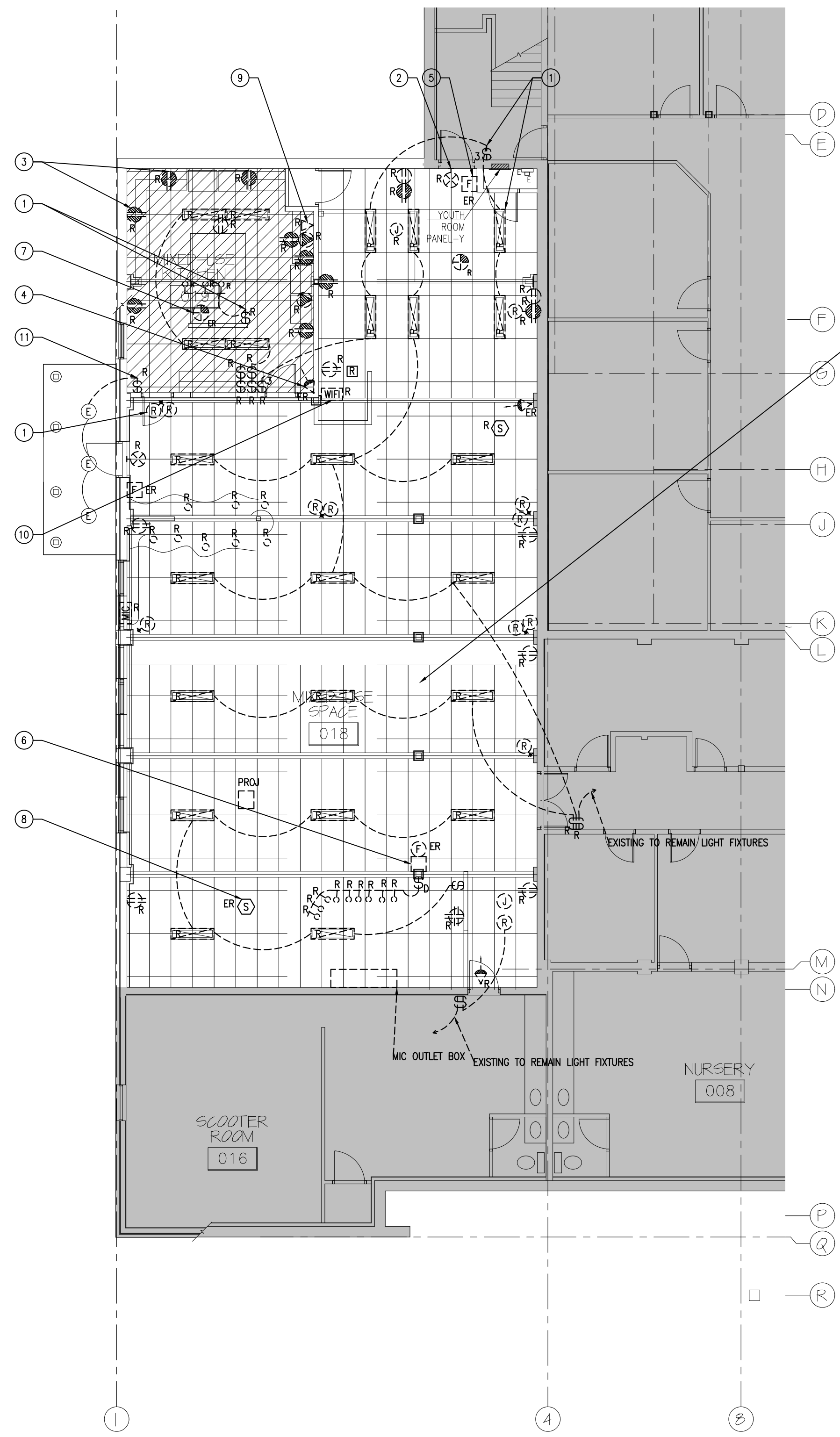
Goodkey Weedmark Consulting Engineers

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Project/Projet	Nord du projet	Seal/Sceau
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Project/Projet
**ARLINGTON WOODS
FREE METHODIST CHURCH
RENOVATION**
225 McClellan Rd, Ottawa, ON K2H 8N5
Drawing title/Titre du dessin
**ELECTRICAL NEW WORK
PART RISER DIAGRAM &
PANEL SCHEDULE**

Scale/Echelle	AS NOTED	Project no./No. du projet	2019-333-1
Design by/Conçu par	J.ANTALA	Drawn by/Dessiné par	J.ANTALA
Reviewed by/Examiné par	D.VYAS	Acad file/Fichier:	
Date	JANUARY 2021	Revision no.	
			10



TYPICAL FOR MIXED USE SPACE 018 & MIXED USE KITCHEN 019 & OTHER DEMOLITION AREA
 DISCONNECT AND REMOVE ALL EXISTING BX CABLES C/W JUNCTION BOXES & REMOVE ALL
 EXISTING LOOSE POWER & COMMUNICATION WIRING FOR EXISTING TO REMAIN DEVICES AND
 MAKE SAFE. PROVIDE NEW CONDUIT C/W JUNCTION BOX TO EXTEND ALL EXISTING TO REMAIN
 WIRING AND TEST. PROVIDE FIRE RATED ACCESS PANEL WHERE ACCESS IS REQUIRED.
 CONTRACTOR TO VISIT SITE PRIOR TENDER.

- ### DEMOLITION NOTES
- 1 TYPICAL
DISCONNECT & REMOVE EXISTING LIGHT FIXTURES C/W SWITCHES, JUNCTION
BOXES, CONDUIT & WIRING BACK TO SOURCE. TRACE & REUSE EXISTING
CIRCUIT FOR NEW LIGHT FIXTURES.
 - 2 TYPICAL
DISCONNECT & REMOVE EXISTING EXIT LIGHTS C/W CONDUIT & WIRING BACK
TO SOURCE. TRACE & REUSE EXISTING CIRCUIT FOR NEW EXIST LIGHTS.
 - 3 TYPICAL
DISCONNECT & REMOVE EXISTING RECEPTACLES C/W CONDUIT & WIRING BACK
TO SOURCE. TRACE & REUSE EXISTING CIRCUIT FOR NEW RECEPTACLES.
 - 4 TYPICAL
DISCONNECT, REMOVE & REINSTALL EXISTING SECURITY DEVICES C/W WIRING.
 - 5 TYPICAL
DISCONNECT, REMOVE & REINSTALL EXISTING FIRE ALARM PULL STATION C/W
CONDUIT & WIRING.
 - 6 TYPICAL
DISCONNECT, REMOVE & REINSTALL EXISTING FIRE ALARM BELL C/W CONDUIT
& WIRING.
 - 7 TYPICAL
DISCONNECT, REMOVE & REINSTALL EXISTING FIRE ALARM HEAT DETECTOR C/W
CONDUIT & WIRING.
 - 8 TYPICAL
DISCONNECT, REMOVE & REINSTALL EXISTING SPEAKERS, WIRING BY PA
CONTRACTOR.
 - 9 DISCONNECT & REMOVE DATA OUTLET C/W CABLING.
 - 10 DISCONNECT & REMOVE WIFI OUTLET C/W CABLING.
 - 11 DISCONNECT & REMOVE EXISTING SWITCH C/W WIRING & CONDUIT FOR
EXTERIOR LIGHTS. PROVIDE NEW SWITCH & RECONNECT EXTERIOR LIGHTS C/W
CONDUIT & WIRING ONCE DEMOLITION WORK IS DONE.

1
E5
1:100
**BASEMENT FLOOR
 ELECTRICAL DEMOLITION WORK LAYOUT**

Client

DATE	REVISION	REF
2021-01-14	ISSUED FOR CONSTRUCTION	
2020-07-24	ISSUED FOR TENDER	-
2020-05-27	ISSUED FOR PERMIT	-
2020-05-08	ISSUED FOR REVIEW	-

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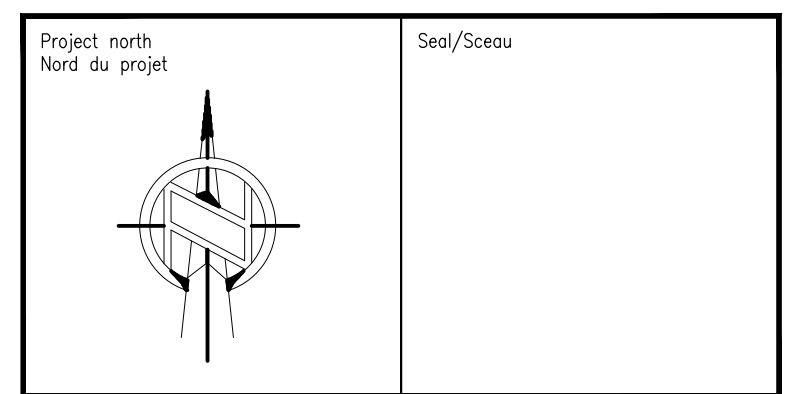
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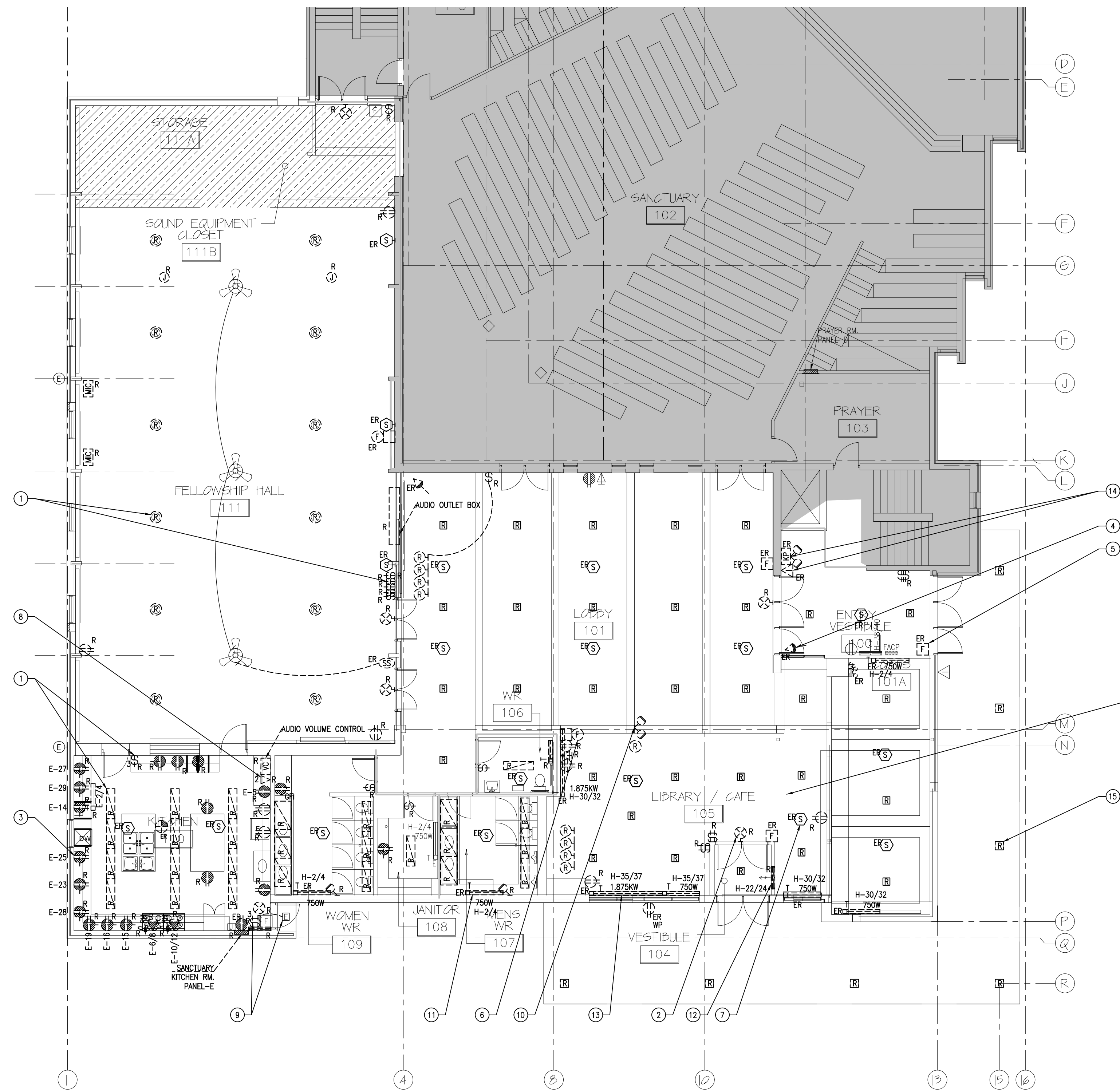


Project/Projet
**ARLINGTON WOODS
 FREE METHODIST CHURCH
 RENOVATION**
 225 McClellan Rd, Ottawa, ON K2H 8N5

Drawing title/Titre du dessin
**BASEMENT FLOOR
 ELECTRICAL DEMOLITION
 WORK LAYOUT**

Scale Échelle	AS NOTED 2019-333-1	Project no./No. du projet 2019-333-1
Design by Conçu par	J.ANTALA	Drawing/Dessin
Drawn by Dessiné par	J.ANTALA	E5
Reviewed by Examiné par	D.VYAS	
Date Date	JANUARY 2021	Revision no: Acad file/Fichier:

OF 10



1
E6 1:100
GROUND FLOOR ELECTRICAL DEMOLITION WORK LAYOUT

- DEMOLITION NOTES**
- 1 TYPICAL DISCONNECT & REMOVE EXISTING LIGHT FIXTURES C/W SWITCHES, JUNCTION BOXES, CONDUIT & WIRING BACK TO SOURCE. TRACE & REUSE EXISTING CIRCUIT FOR NEW LIGHT FIXTURES.
 - 2 TYPICAL DISCONNECT & REMOVE EXISTING EXIT LIGHTS C/W CONDUIT & WIRING. TRACE & REUSE EXISTING CIRCUIT FOR NEW EXIST LIGHTS.
 - 3 TYPICAL DISCONNECT & REMOVE EXISTING RECEPTACLES C/W CONDUIT & WIRING BACK TO SOURCE. TRACE & REUSE EXISTING CIRCUIT FOR NEW RECEPTACLES.
 - 4 TYPICAL DISCONNECT, REMOVE & REINSTALL EXISTING SECURITY DEVICES C/W WIRING.
 - 5 TYPICAL DISCONNECT, REMOVE & REINSTALL EXISTING FIRE ALARM PULL STATION C/W CONDUIT & WIRING.
 - 6 TYPICAL DISCONNECT, REMOVE & REINSTALL EXISTING FIRE ALARM BELL STATION C/W CONDUIT & WIRING.
 - 7 TYPICAL DISCONNECT, REMOVE & REINSTALL EXISTING SPEAKERS C/W WIRING.
 - 8 DISCONNECT & REMOVE DATA OUTLET C/W CABLING.
 - 9 DISCONNECT & REMOVE EXISTING SWITCH C/W WIRING & CONDUIT FOR EXTERIOR LIGHT. PROVIDE NEW SWITCH & RECONNECT EXTERIOR LIGHTS C/W CONDUIT & WIRING ONCE DEMOLITION WORK IS DONE.
 - 10 TYPICAL DISCONNECT & REMOVE EMERGENCY REMOTE HEADS C/W CONDUIT & WIRING.
 - 11 TYPICAL DISCONNECT & REMOVE EXISTING ELECTRIC BASEBOARD HEATERS C/W CONDUIT & WIRE BACK TO JUNCTION BOX IN WASHROOMS. PROVIDE NEW 1KW BASEBOARD HEATERS & REUSE EXISTING CIRCUIT.
 - 12 DISCONNECT & REMOVE EXISTING FORCE FLOW HEATER C/W CONDUIT & WIRING. BACK TO PANEL, REVERSE BREAKER SIZE 20A-2P(CIRCUIT # H-22/24) TO 15A-2P BREAKER IN SECOND FLOOR HALL WAY PANEL. REUSE CIRCUIT FOR NEW BASEBOARD HEATER LOCATED IN STAIR.
 - 13 TYPICAL DISCONNECT & RELOCATE EXISTING ELECTRIC BASEBOARD HEATERS C/W CONDUIT & WIRING. EXTEND WIRING & RELOCATE EXISTING BASEBOARD HEATERS C/W CONDUIT AT NEW LOCATION AS INDICATED ON NEW WORK LAYOUT.
 - 14 TEMPORARY REMOVE & REINSTALL EXISTING SECURITY KEYPAD & TELEPHONE BY PA CONTRACTOR TO ALLOW DEMOLITION WORK.
 - 15 TYPICAL DISCONNECT & REMOVE EXTERIOR SOFFIT LIGHT FIXTURE C/W CONDUIT & WIRING. TRACE & REUSE EXISTING CIRCUIT FOR NEW LIGHT FIXTURES.

TYPICAL FOR LOBBY 101 & LIBRARY/CAFE 105 DISCONNECT AND REMOVE ALL EXISTING LIGHT-FIXTURES C/W WIRING & PROVIDE NEW LIGHT FIXTURES AS INDICATED IN NEW WORK LAYOUT. PROVIDE FIRE RATED ACCESS PANEL WHERE ACCESS IS REQUIRED. CONTRACTOR TO VISIT SITE PRIOR TENDER.

Client

DATE	REVISION	REF
2021-01-14	ISSUED FOR CONSTRUCTION	
2020-11-17	ISSUED FOR ADDENDUM E3	
2020-07-24	ISSUED FOR TENDER	-
2020-05-27	ISSUED FOR PERMIT	-
2020-05-08	ISSUED FOR REVIEW	-

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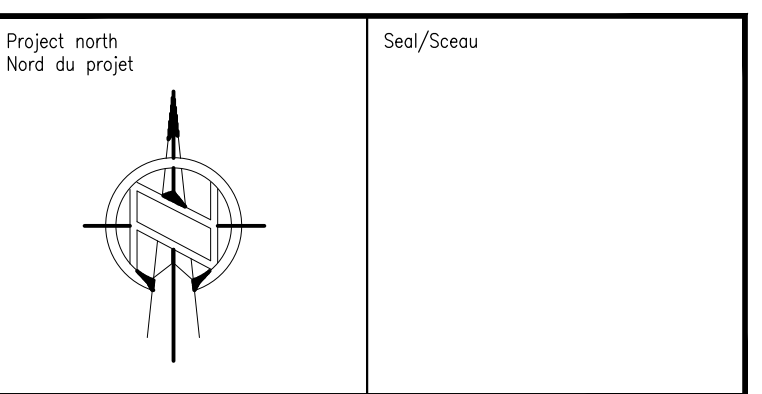
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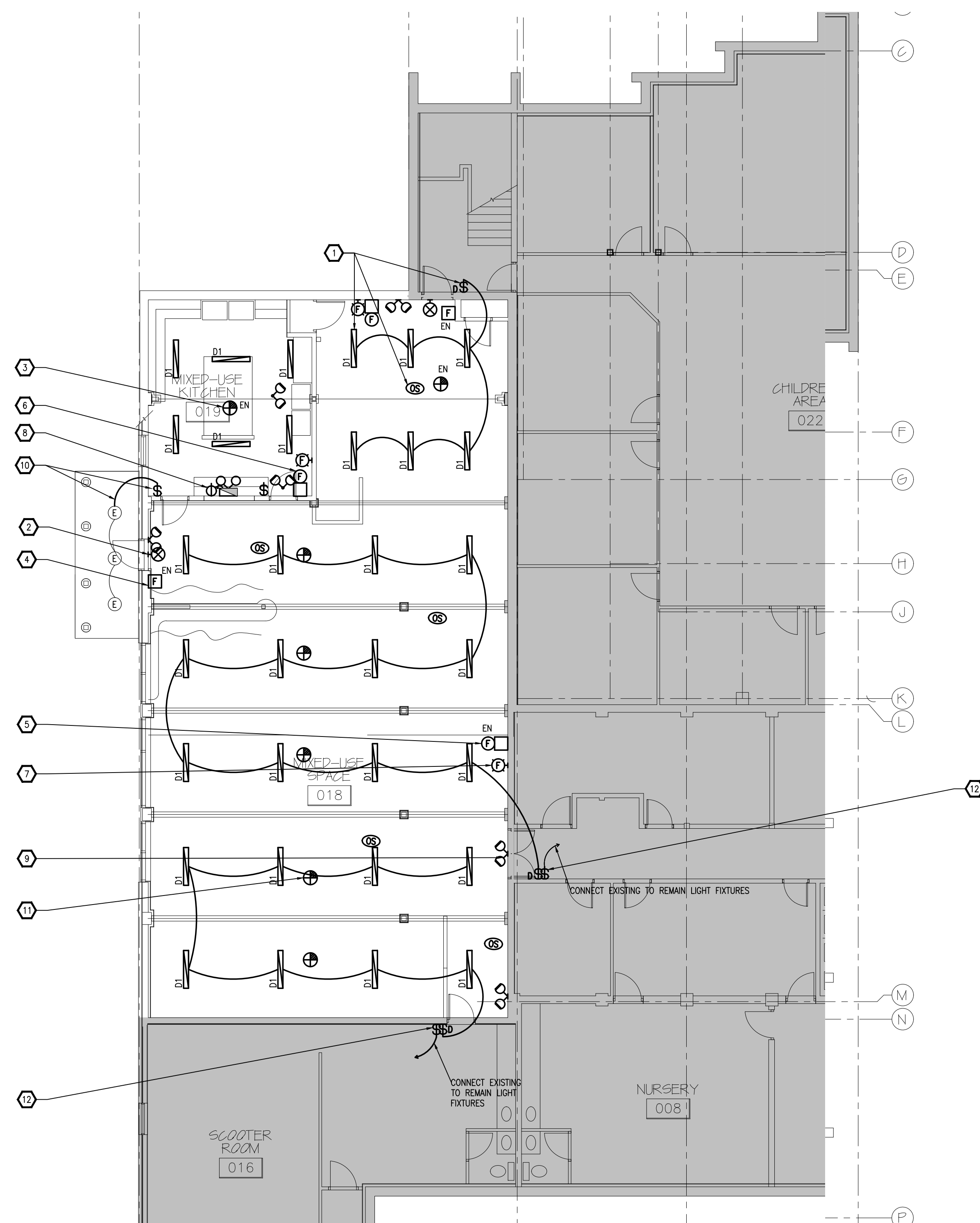
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Project/Projet
**ARLINGTON WOODS
 FREE METHODIST CHURCH
 RENOVATION**
 225 McClellan Rd, Ottawa, ON K2H 8N5

Drawing title/Titre du dessin
**GROUND FLOOR
 ELECTRICAL DEMOLITION
 WORK LAYOUT**

Scale Échelle	AS NOTED 2019-333-1	Project no./No. du projet 2019-333-1
Design by Conçu par	J.ANTALA	Drawing/Dessin
Drawn by Dessiné par	J.ANTALA	E6 OF 10
Reviewed by Examiné par	D.VYAS	
Date Date	JANUARY 2021	Revision no: Acad file/Fichier:



**BASEMENT FLOOR
ELECTRICAL LIGHTING & FIRE ALARM NEW WORK LAYOUT**
1
E7 1:100

- NEW WORK NOTES**
- 1 TYPICAL
PROVIDE NEW LIGHT FIXTURES C/W LOW VOLTAGE DIMMING SWITCH, OCCUPANCY SENSORS, CONDUIT, WIRING & POWER PACK AS REQUIRED. REUSE EXISTING RECESSES BOX & CONDUIT. REFER TO PANEL SCHEDULE. REUSE EXISTING CIRCUIT FOR NEW LIGHT FIXTURES. OCCUPANCY SENSOR WILL CONTROL EACH ZONE INDEPENDENTLY.
 - 2 TYPICAL
PROVIDE NEW EXIT LIGHT C/W CONDUIT & WIRING. TRACE & REUSE EXISTING CIRCUIT FOR NEW EXIT LIGHTS & CONNECT TO EMERGENCY BATTERY UNITS.
 - 3 TYPICAL
REINSTALL EXISTING HEAT DETECTOR C/W CONDUIT & WIRING. VERIFY & UPDATE PROGRAMMING.
 - 4 TYPICAL
REINSTALL EXISTING FIRE ALARM PULL STATION C/W CONDUIT & WIRING. VERIFY & UPDATE PROGRAMMING.
 - 5 TYPICAL
REINSTALL EXISTING FIRE ALARM BELL C/W CONDUIT & WIRING. VERIFY & UPDATE PROGRAMMING.
 - 6 TYPICAL
PROVIDE NEW FIRE ALARM BELL C/W CONDUIT & WIRING.
 - 7 TYPICAL
PROVIDE NEW FIRE ALARM STROBE LIGHTS. PROVIDE NEW CIRCUIT FROM THE FIRE ALARM PANEL.
 - 8 PROVIDE NEW 250W EMERGENCY BATTERY UNIT C/W LED 5W REMOTE HEAD CONDUIT & WIRING & CONNECT TO LIGHTING CIRCUIT.
 - 9 TYPICAL
PROVIDE NEW 5W REMOTE HEADS C/W WIRING & CONNECT TO EMERGENCY BATTERY UNIT.
 - 10 PROVIDE NEW SWITCH FOR EXTERIOR LIGHTS C/W CONDUIT & WIRING & CONNECT TO EXTERIOR LIGHTS.
 - 11 TYPICAL
PROVIDE NEW HEAT DETECTOR C/W CONDUIT & WIRING. VERIFY & UPDATE PROGRAMMING.
 - 12 TYPICAL
PROVIDE NEW LIGHT SWITCH & CONNECT TO EXISTING TO REMAIN LIGHT FIXTURES.

Client

DATE	REVISION	REF
2021-01-14	ISSUED FOR CONSTRUCTION	
2020-11-09	ISSUED FOR ADDENDUM E2	
2020-07-24	ISSUED FOR TENDER	-
2020-05-27	ISSUED FOR PERMIT	-
2020-05-08	ISSUED FOR REVIEW	-

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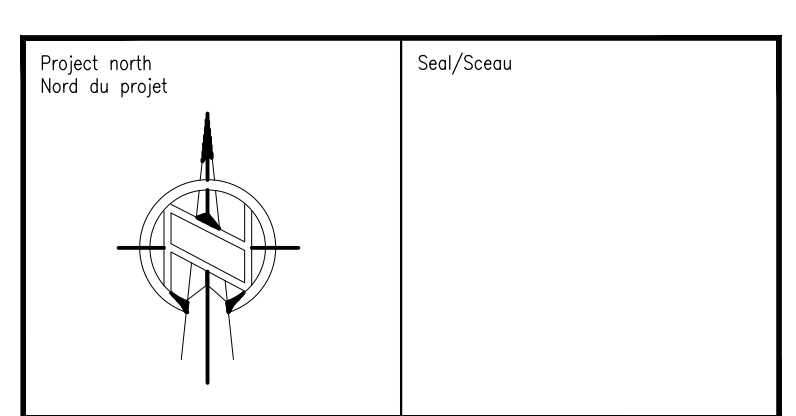
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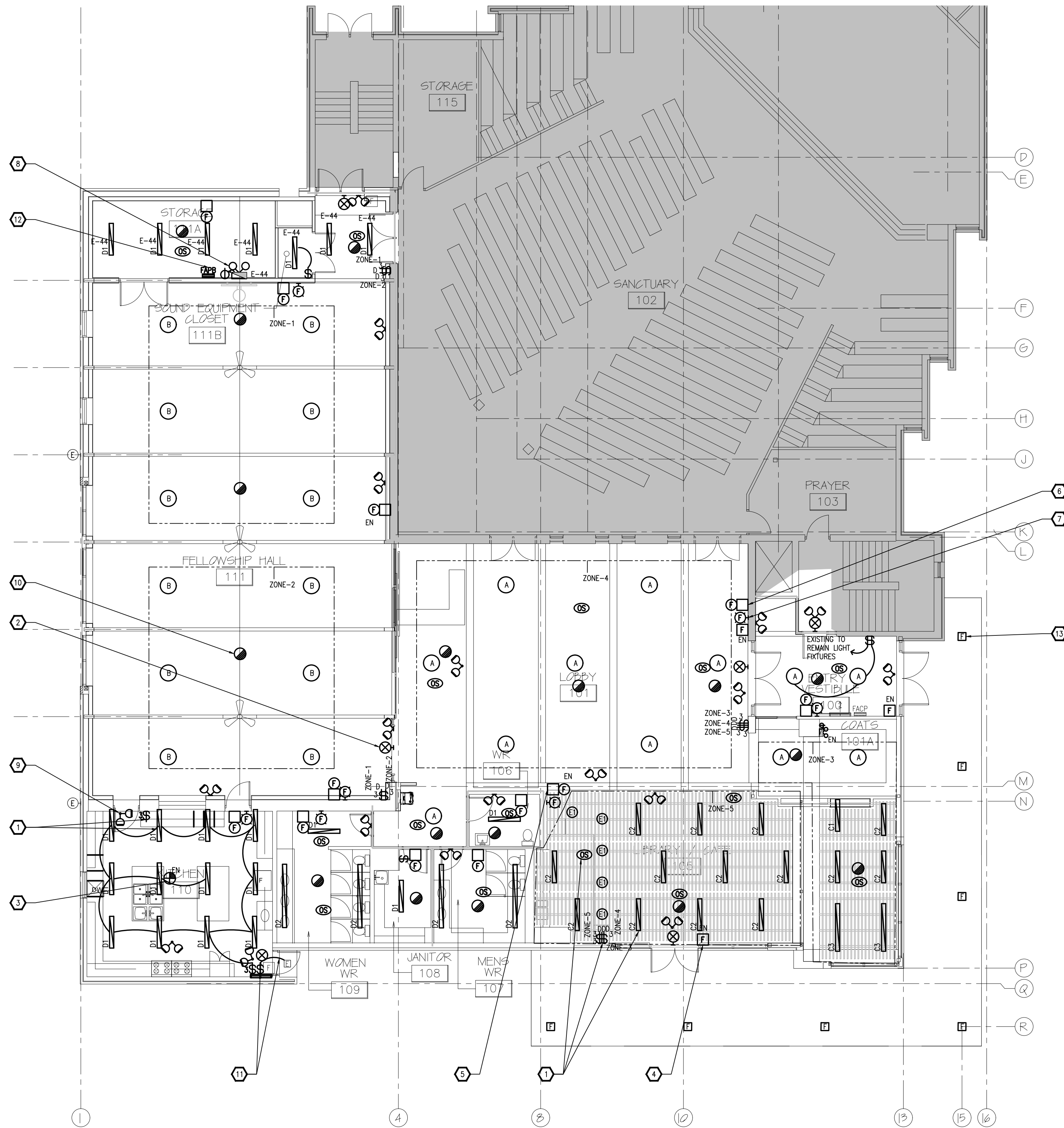


Project/Projet
**ARLINGTON WOODS
FREE METHODIST CHURCH
RENOVATION**
225 McClellan Rd, Ottawa, ON K2H 8N5

Drawing title/Titre du dessin
**BASEMENT FLOOR
ELECTRICAL LIGHTING &
FIRE ALARM
NEW WORK LAYOUT**

Scale Échelle	AS NOTED	Project no./No. du projet 2019-333-1
Design by Conçu par	J.ANTALA	Drawing/Desin
Drawn by Dessiné par	J.ANTALA	E7
Reviewed by Examiné par	D.VYAS	
Date	JANUARY 2021	Revision no: Acad file/Fichier:

OF 10



GROUND FLOOR
ELECTRICAL LIGHTING & FIRE ALARM NEW WORK LAYOUT
1
E8
1:100

- NEW WORK NOTES**
- 1 TYPICAL
PROVIDE NEW LIGHT FIXTURES C/W LOW VOLTAGE DIMMING SWITCHES, OCCUPANCY SENSORS, CONDUIT, WIRING & POWER PACK AS REQUIRED. REFER TO PANEL SCHEDULE. REUSE EXISTING CIRCUIT FOR NEW LIGHT FIXTURES. OCCUPANCY SENSOR WILL CONTROL EACH ZONE INDEPENDENTLY.
 - 2 TYPICAL
PROVIDE NEW EXIT LIGHT C/W CONDUIT & WIRING. TRACE & REUSE EXISTING CIRCUIT FOR NEW EXIT LIGHTS & CONNECT TO EMERGENCY BATTERY UNITS.
 - 3 TYPICAL
REINSTALL EXISTING HEAT DETECTOR C/W CONDUIT & WIRING. VERIFY & UPDATE PROGRAMMING.
 - 4 TYPICAL
REINSTALL EXISTING FIRE ALARM PULL STATION C/W CONDUIT & WIRING. VERIFY & UPDATE PROGRAMMING.
 - 5 TYPICAL
REINSTALL EXISTING FIRE ALARM BELL C/W CONDUIT & WIRING. VERIFY & UPDATE PROGRAMMING.
 - 6 TYPICAL
PROVIDE NEW FIRE ALARM BELL C/W CONDUIT & WIRING.
 - 7 TYPICAL
PROVIDE NEW FIRE ALARM STROBE LIGHTS C/W CONDUIT & WIRING.
 - 8 TYPICAL
PROVIDE NEW 200W EMERGENCY BATTERY UNIT C/W REMOTE HEADS CONDUIT & WIRING & CONNECT TO LIGHTING CIRCUIT.
 - 9 TYPICAL
PROVIDE NEW 5W EMERGENCY REMOTE HEADS C/W WIRING & CONNECT TO EMERGENCY BATTERY UNIT.
 - 10 TYPICAL
PROVIDE NEW SMOKE DETECTORS C/W CONDUIT & WIRING.
 - 11 TYPICAL
PROVIDE NEW SWITCH FOR EXTERIOR LIGHTS C/W CONDUIT & WIRING & CONNECT TO EXTERIOR LIGHTS.
 - 12 TYPICAL
PROVIDE FIRE ALARM POWER BOOSTER C/W CONDUIT & WIRING.
 - 13 TYPICAL
PROVIDE NEW EXTERIOR SOFFIT LIGHTS C/W CONDUIT & NEW WIRING. TRACE & REUSE EXISTING CIRCUIT. REFER TO PANEL SCHEDULE.

Client

DATE	REVISION	REF
2021-01-14	ISSUED FOR CONSTRUCTION	
2020-07-24	ISSUED FOR TENDER	-
2020-05-27	ISSUED FOR PERMIT	-
2020-05-08	ISSUED FOR REVIEW	-

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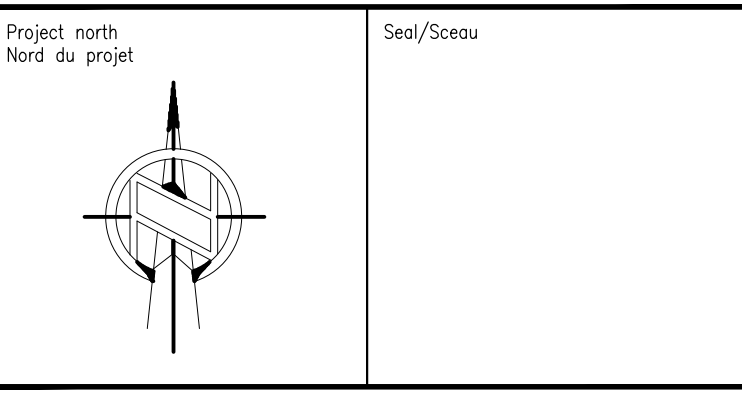
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Project/Projet
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FREE METHODIST CHURCH
RENOVATION**
225 McClellan Rd, Ottawa, ON K2H 8N5

Drawing title/Titre du dessin
**GROUND FLOOR
ELECTRICAL LIGHTING &
FIRE ALARM
NEW WORK LAYOUT**

Scale
Échelle AS NOTED
Project no./No. du projet
2019-333-1

Design by
Conçu par J.ANTALA

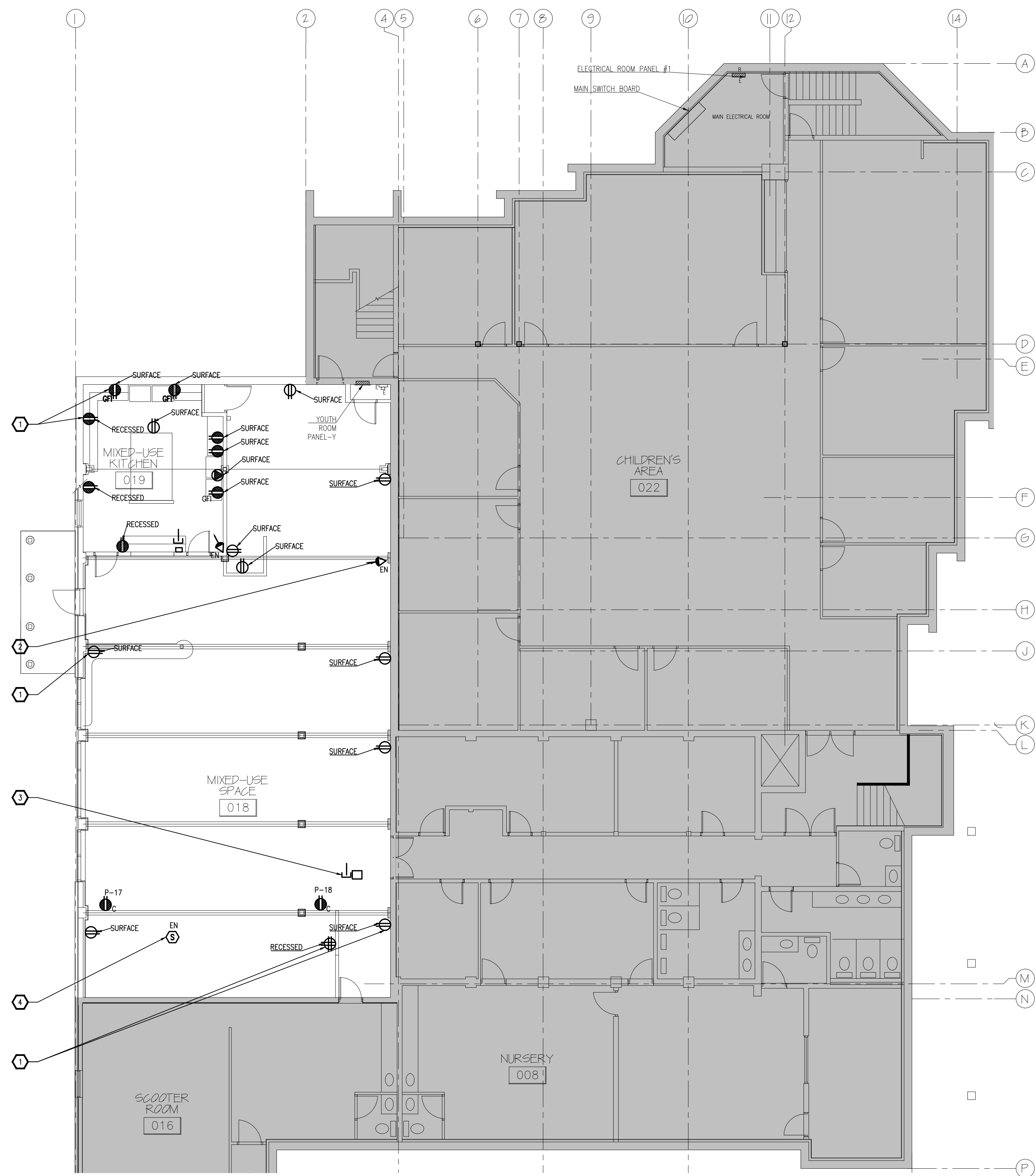
Drawn by
Dessiné par J.ANTALA

Reviewed by
Examiné par D.VYAS

Date
Date JANUARY 2021

Revision no.
Acad file/Fichier: -

E8
OF 10



**BASEMENT FLOOR
ELECTRICAL POWER & SYSTEMS NEW WORK LAYOUT**
1
E9 1:100

- NEW WORK NOTES**
- 1 TYPICAL
PROVIDE NEW RECESSED/SURFACE MOUNTED RECEPTACLES C/W CONDUIT & NEW WIRING. REUSE EXISTING CIRCUIT FOR NEW RECEPTACLES. PROVIDE FS BOX(SURFACE MOUNT BOX) FOR SURFACE MOUNTED RECEPTACLES.
 - 2 TYPICAL
REINSTALL EXISTING SECURITY DEVICES C/W WIRING.
 - 3 PROVIDE OCTAGON BACK BOX C/W 21MM CONDUIT & PULL ROPE FROM SOUND EQUIPMENT CLOSET 111B LOCATED IN GROUND FLOOR FOR WIFI. COORDINATE EXACT CONDUIT ROUTE ON SITE.
 - 4 TYPICAL
REINSTALL EXISTING PA SPEAKERS. WIRING BY PA CONTRACTOR.

- GENERAL NOTES**
- 1. TYPICAL
ALL EXISTING TO REMAIN AND NEW WIRING IN CEILING SPACE SHALL BE IN CONDUIT ONLY. TIE NEATLY ALL COMMUNICATION AND SECURITY CABLING. PROVIDE REQUIRED JUNCTION BOXES, FIRE RATED ACCESS PANELS AS REQUIRED. COORDINATE WITH OWNERS DATA, PA AND SECURITY CONTRACTOR. PROVIDE REQUIRED CONDUITS AND POWER.

Client

DATE	REVISION	REF
2021-01-14	ISSUED FOR CONSTRUCTION	
2020-11-09	ISSUED FOR ADDENDUM E2	
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2020-05-27	ISSUED FOR PERMIT	-
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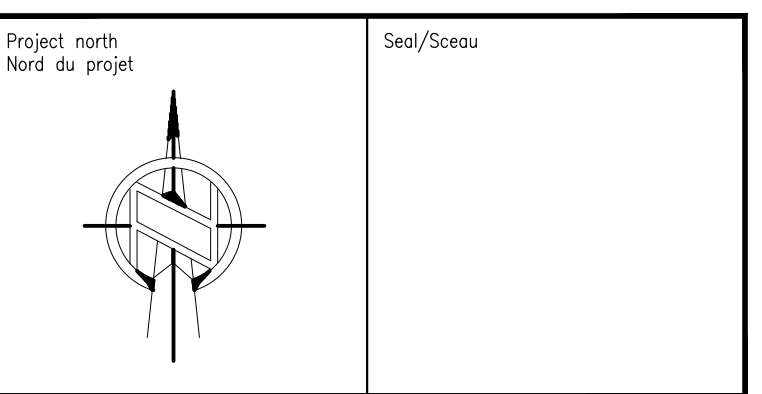
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Consulting Engineers**

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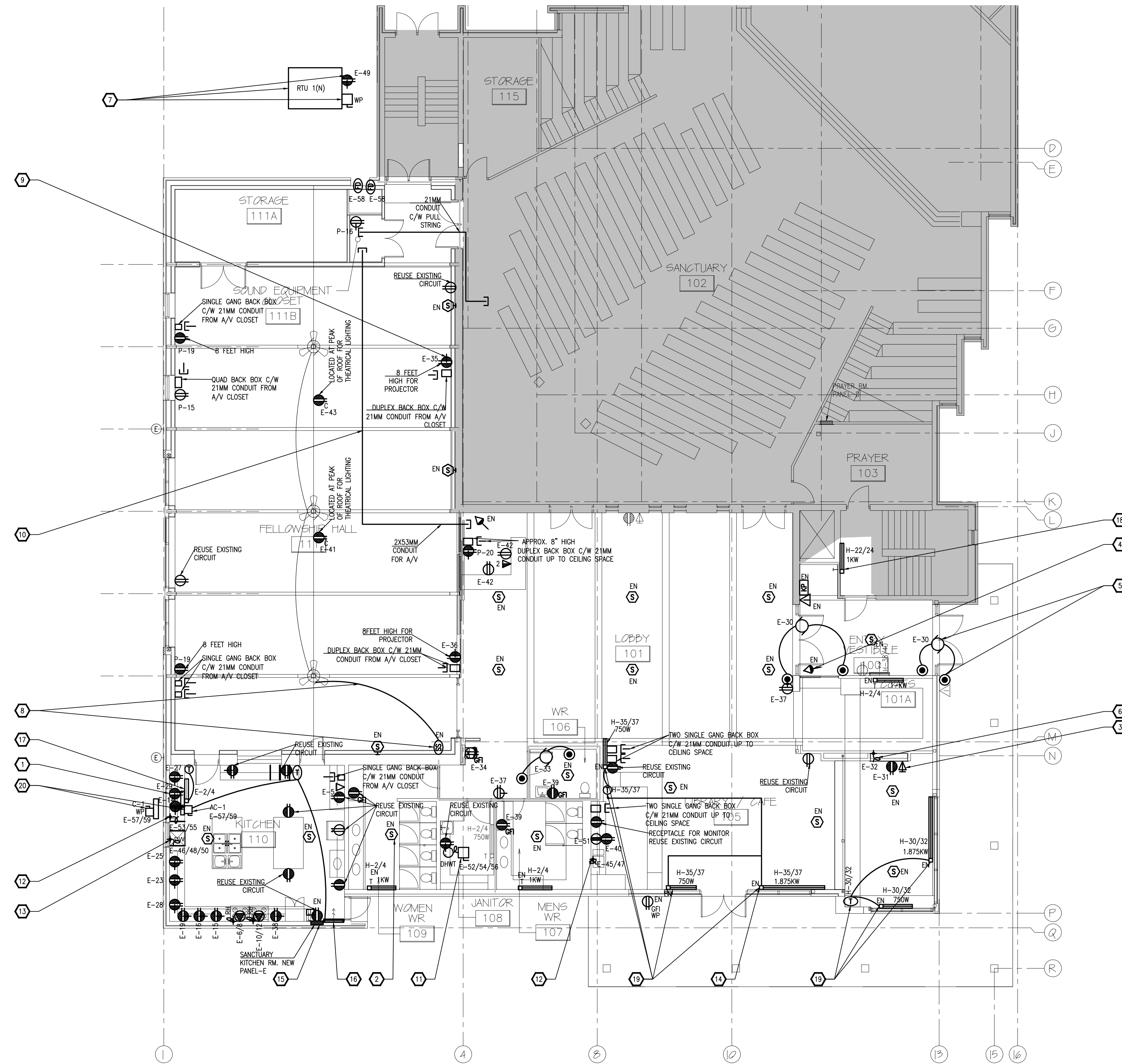


Project/Projet
**ARLINGTON WOODS
FREE METHODIST CHURCH
RENOVATION**
225 McClellan Rd, Ottawa, ON K2H 8N5

Drawing title/Titre du dessin
**BASEMENT FLOOR
ELECTRICAL POWER &
SYSTEMS
NEW WORK LAYOUT**

Scale Échelle	AS NOTED 2019-333-1	Project no./No. du projet 2019-333-1
Design by Conçu par	J.ANTALA	Drawing/Dessin
Drawn by Dessiné par	J.ANTALA	E9
Reviewed by Examiné par	D.VYAS	
Date	JANUARY 2021	Revision no. Acad file/Fichier:

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GROUND FLOOR
ELECTRICAL POWER & SYSTEM NEW WORK LAYOUT
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E10 1:100

NEW WORK NOTES

1. TYPICAL
PROVIDE NEW RECEPTACLES C/W CONDUIT & WIRING. REUSE EXISTING CIRCUIT FOR NEW RECEPTACLES. ALL NEW RECEPTACLES SHALL BE RECESSED.
2. TYPICAL
REINSTALL EXISTING SPEAKERS. WIRING BY PA CONTRACTOR.
3. PROVIDE TV OUTLET C/W 21MM CONDUIT UP TO CEILING SPACE. COORDINATE EXACT LOCATION ON SITE WITH PA CONTRACTOR.
4. TYPICAL
REINSTALL EXISTING SECURITY DEVICES C/W WIRING.
5. PROVIDE 120V WIRING FOR DOOR OPERATOR. PROVIDE BACK BOX C/W 21MM CONDUIT & NYLON PULL STRING TO PUSH BUTTON.
6. PROVIDE HARDWARE CONNECTION FOR ELECTRICAL FURNACE C/W CONDUIT & WIRING. OCT AS INDICATED.
7. RTU-1(N) 208V, 3A, MCA-64A, MOP 90A. PROVIDE WEATHER PROOF DISCONNECT C/W CONDUIT & WIRING FROM MAIN SWITCHBOARD. REFER TO RISER DIAGRAM. COORDINATE EXACT CONDUIT ROUTE IN SITE. 5-20R RECEPTACLE COMES WITH UNIT. ELECTRICAL CONTRACTOR TO PROVIDE WIRING C/W CONDUIT FROM KITCHEN PANEL E. CIRCUIT AS INDICATED.
8. EXTEND WIRING & RELOCATE EXISTING SPEED SWITCH FOR CEILING FAN C/W CONDUIT.
9. TYPICAL
PROVIDE 2X 20A RECEPTACLES FOR PROJECTOR C/W CONDUIT & WIRING. PROVIDE 2X21MM CONDUIT FROM SOUND EQUIPMENT CLOSET 111B. COORDINATE EXACT MOUNTING HEIGHT WITH OWNERS PA CONTRACTOR.
10. PROVIDE TWO 53MM CONDUIT FROM SOUND EQUIPMENT CLOSET 111B TO LOBBY 101 FOR PA. COORDINATE WORK WITH OWNERS PA CONTRACTOR.
11. HOT WATER TANK 6KW, 208V, 3A, 4W+GND. PROVIDE DISCONNECT C/W CONDUIT & WIRING. CIRCUIT AS INDICATED. COORDINATE WORK WITH MECHANICAL CONTRACTOR & FINAL BREAKER SIZE WITH EQUIPMENT SHOP DRAWING.
12. TYPICAL
COFFEE MACHINE 120-208V, 1A, 3W+GND. PROVIDE HARD WIRE CONNECTION C/W CONDUIT & WIRING. CIRCUIT AS INDICATED. COORDINATE FINAL BREAKER SIZE WITH EQUIPMENT SHOP DRAWING. COORDINATE EXACT LOCATION ON SITE WITH CLIENT PRIOR ROUGH-IN.
13. DISHWASHER 120/208V, 3A, 4W+GND. PROVIDE HARD WIRE CONNECTION C/W CONDUIT & WIRING. CIRCUIT AS INDICATED. COORDINATE FINAL BREAKER SIZE WITH EQUIPMENT SHOP DRAWING.
14. TYPICAL
EXTEND EXISTING WIRING C/W CONDUIT & RELOCATE EXISTING ELECTRIC BASEBOARD HEATERS. RATING AS INDICATED. COORDINATE EXACT LOCATION ON SITE. TRACE & REUSE EXISTING CIRCUIT.
15. PROVIDE NEW 200A-3P BREAKER IN MAIN SWITCHBOARD. PROVIDE NEW PANEL C/W JUNCTION BOX, CONDUIT, BRANCH BARKERS & WIRING. RECONNECT ALL EXISTING TO REMAIN CIRCUIT. CUT & PATCH EXISTING WALL BY GENERAL CONTRACTOR. REFER TO RISER DIAGRAM.
16. PROVIDE NEW RECESSED WALL MOUNTED FORCE FLOW HEATER 3KW, 208V, 1-PHASE EQUAL TO DIMPLEX MAKE RP/RV SERIES C/W CONDUIT & WIRING. HONEYWELL RBH101169 ELECTRICAL HEATER RELAY & PILOT DUTY HEAT RELAY RBL1C SUPPLIED BY MECHANICAL CONTRACTOR. PROVIDE LINE VOLTAGE WIRING AS INDICATED ON DETAIL 1/E1. LOW VOLTAGE WIRING BY MECHANICAL CONTRACTOR. REUSE EXISTING CIRCUIT.
17. PROVIDE NEW KICK SPACE HEATER 1KW, 208V, 1-PHASE EQUAL TO CHROMALOX OR STELPRO MAKE C/W CONDUIT & WIRING. PROVIDE WALL MOUNTED LINE VOLTAGE THERMOSTAT & CONNECT TO KICK SPACE HEATER. REUSE EXISTING CIRCUIT.
18. PROVIDE NEW BASEBOARD HEATER 1KW, 208V, 1-PHASE EQUAL TO STELPRO MAKE AB SERIES C/W BUILT-IN THERMOSTAT, CONDUIT & WIRING IN STAIR. REUSE EXISTING CIRCUIT.
19. REMOVE WIRING FROM BUILT-IN THERMOSTATS. GROUP AND CONNECT ALL BASEBOARD HEATERS ON CIRCUIT AS SHOWN. PROVIDE NEW WALL MOUNTED LINE VOLTAGE 208V, 20A THERMOSTAT & CONNECT ALL BASEBOARD HEATERS IN LIBRARY CAFE AS INDICATED. TEST & VERIFY.
20. CONDENSER UNIT C-1, MCA-14A, 208V, 1-PHASE. PROVIDE WEATHER PROOF DISCONNECT C/W CONDUIT & WIRING. DUCTLESS SPLIT UNIT AC-1, MCA-1A, 208V, 1-PHASE. PROVIDE DISCONNECT C/W CONDUIT & WIRING FROM CONDENSER UNIT C-1. PROVIDE LINE VOLTAGE WIRING FROM IC CN105 TO LOW VOLTAGE TRANSFORMER FOR THERMOSTAT. REFER TO DETAIL 1/E1. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION.

GENERAL NOTES

1. TYPICAL
ALL EXISTING TO REMAIN AND NEW WIRING IN CEILING SPACE SHALL BE IN CONDUIT ONLY. TIE NEATLY ALL COMMUNICATION AND SECURITY CABLING. PROVIDE REQUIRED JUNCTION BOXES, FIRE RATED ACCESS PANELS AS REQUIRED. COORDINATE WITH OWNERS DATA, PA AND SECURITY CONTRACTOR. PROVIDE REQUIRED CONDUITS AND POWER.
2. TYPICAL
PA & SECURITY WIRING & DEVICES BY OWNERS PA CONTRACTOR.
3. TYPICAL
PATCH & REPAIR EXISTING WALL & CEILING BY GENERAL CONTRACTOR. PROVIDE PULL BOX AT EVERY 3RD BEND & IDENTIFY CIRCUIT NUMBER ON PULL BOX. SCAN SLAB PRIOR CORING. PROVIDE FIRE AND SMOKE AT ALL NEW PENETRATIONS IN FIRE RATED WALLS/SLAB WITH FIRE STOP AND SEALANT. COORDINATE EXACT CONDUIT ROUTE ON SITE.
4. COORDINATE KITCHEN EQUIPMENT (COFFEE MACHINES, DISHWASHER & DHWT LOCATION WITH ARCHITECT & CLIENT PRIOR ROUGH-IN.

Client

DATE	REVISION	REF
2021-01-14	ISSUED FOR CONSTRUCTION	
2021-01-05	ISSUED FOR POST TENDER ADDENDUM E1	
2020-11-17	ISSUED FOR ADDENDUM E3	
2020-07-24	ISSUED FOR TENDER	-
2020-05-27	ISSUED FOR PERMIT	-
2020-05-08	ISSUED FOR REVIEW	-

THE ENGINEER WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND THE DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHER FAILURE TO OBTAIN AND / OR FOLLOW THE ENGINEER'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS WHICH ARE ALLEGED.

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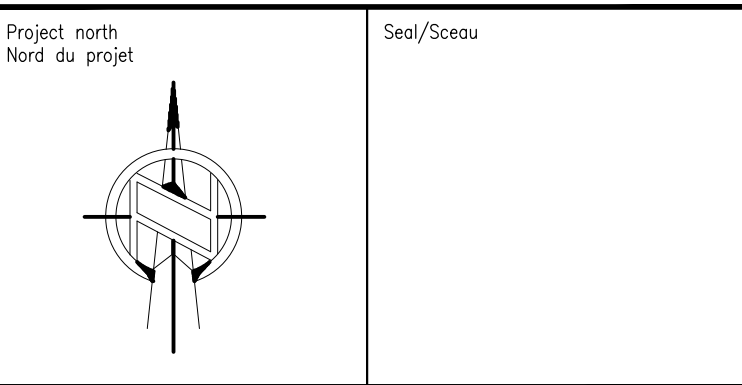
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