

ADDENDUM



Project:	Arlington Woods Free Methodist Church Renovation	Post Tender Addendum No.:	A04
Tender #	N/A	No. of Pages:	10 (including cover page)
Project #	1846	Date:	January 07, 2021

The following change(s) in the Tender Documents are effective immediately. This Addendum forms part of the Contract Documents.

Acknowledge receipt of this Addendum by inserting its number and date on the Tender Form. Failure to do so may subject bidder to disqualification.

Item Description

- 1.1 Incorporate Changes identified in Architectural Post Tender Addendum No. A04 (1 page) prepared by Hobin Architecture Incorporated and attached.
- 1.2 Incorporate Changes identified in Post Tender Mechanical Addendum PTM1 (4 pages) prepared by Goodkey Weedmark & Associates and attached.
- 1.3 Incorporate Changes identified in Post Tender Electrical Addendum PTE1 (4 pages) prepared by Goodkey Weedmark & Associates and attached.

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The following information supplements and/or supersedes the bid documents.

This addendum forms part of the contract documents and is to be read, interpreted, and coordinated with all other parts. The cost of all contained herein is to be included in the contract sum. The following revisions supplements and/or supercede the information contained in the original drawings and specifications issued for the above-named project to the extent referenced and shall become part thereof.

Item No.	Drawing or Spec Section	Description
PT-A4.1 General		
PT-A4.1.1	PTM1	Post-Tender Mechanical Addendum PTM1: Refer to the attached PTM1 for new mechanical provisions to add cooling to Kitchen 110. Mount AC-1 unit above existing upper cabinets on east wall of Kitchen 110. Optional location for placement of exterior condensing unit on roof above Kitchen 110 area. Provide precast concrete pavers on 50mm rigid insulation anchored into roof system. Seismically-restrain slab & unit to building structure.
PT-A4.1.2	PTE1	Post Tender Electrical Addendum PTE1: Refer to the attached PTE1 for electrical provisions to supplement new cooling system in Kitchen 110 per PTM1.

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END OF POST TENDER ADDENDUM

January 6, 2021

The following additions, deletions & revisions form part of the drawings and specifications for the above referenced project:

DRAWINGS

1. Reference Attached Revised Drawing M1:

- .1 RTU and ductworks details have been relocated from Drawing M2 to Drawing M1.
- .2 Refrigerant and condensate piping symbols added to legends.
- .3 Thermostat details added as 3/M1.

1. Reference Attached Revised Drawing M2:

- .1 RTU and ductworks details have been relocated from Drawing M2 to Drawing M1.
- .2 Sections "25. Wall mounted ductless split" and "26. Refrigerant piping" added to specifications.
- .3 Ductless split unit and condenser unit schedules added to drawing.

1. Reference Attached Revised Drawing M5:

- .1 Contractor to provide new wall mounted ductless split unit and condenser unit c/w refrigerant piping and accessories.
- .2 Contractor to provide new thermostat c/w accessories and wiring. Refer to detail 3/M1 for complete control scope of work.

Enclosures: Revised Drawings M1, M2 & M5

- END OF POST-TENDER MECHANICAL ADDENDUM NO. PTM-1-

Goodkey, Weedmark & Associates Limited

Issued by: Hamidreza (Hamid) Fallah, M.A.Sc, E.I.T /cb



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January 6, 2021

The following additions, deletions & revisions form part of the drawings and specifications for the above referenced project:

DRAWINGS

1. Reference Attached Revised Drawing E1:

- .1 Add Thermostat detail 1/E1 as indicated on attached revised Drawing E1.

2. Reference Attached Revised Drawing E4:

- .1 Revise 15A-1P breakers (CCT# E-57 and E-59) with 15A-2P breaker (CCT# 57/59) in Kitchen Room Panel E for Kitchen 110 Condenser C-1 and AC-1 as indicated on attached revised Drawing E4.

3. Reference Attached Revised Drawing E10:

- .1 Provide weather proof disconnect for kitchen condenser C-1 c/w conduit and wiring. Provide disconnect for Ductless split AC-1 c/w conduit and wiring in Kitchen 110 as indicated on attached revised Drawing E10.
- .2 Delete line voltage thermostat for 3 kW wall mounted force flow heater in Kitchen 110. Revise drawing Note '16' as indicated on attached revised Drawing E10.
- .3 Drawing Note '20' added as indicated on attached revised Drawing E10.

Enclosures: Revised Drawings E1, E4 & E10.

- END OF POST-TENDER ELECTRICAL ADDENDUM NO. PTE3 -

Goodkey, Weedmark & Associates Limited

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13. PLUMBING FIXTURE AND TRIM:

1. FIXTURE PIPING:
 1. HOT AND COLD WATER SUPPLIES TO EACH FIXTURE:
 1. SUPPLY STOPS SHALL BE ALL BRASS WITH FULL TURN BRASS SEAMS AND REPLACEABLE WASHER ATTACHMENT SHALL BE IPS INLET X COMPRESSION OD OUTLET TO FIXTURE. ALL FIXTURE STOP VALVES SHALL BE SCREW DRIVER TYPE.
 2. CHROME PLATED IN ALL EXPOSED PLACES.
2. WASTES:
 1. CAST BRASS ADJUSTABLE STYLE P-TRAP WITH CLEANOUT ON EACH FIXTURE NOT HAVING INTEGRAL TRAP.
 2. CHROME PLATED IN ALL EXPOSED PLACES.
 3. SINK AND LAVATORY HEAVY GAUGE P-TRAPS SHALL BE CAST BRASS ADJUSTABLE STYLE WITH 17 GA SEAMLESS BRASS WALL BEND. ATTACHMENT NUTS SHALL BE BRASS, NO ZINC ALLOWED. P-TRAPS TO BE REMOVABLE/UNION TYPE OR TO INCLUDE CLEANOUT.
 4. LAVATORY STRAINERS SHALL BE CHROME PLATED CAST BRASS WITH 17 GA SEAMLESS BRASS TAILPIECE.
 5. ALL BARRIER-FREE LAVATORIES AND SINKS SHALL HAVE CHROME PLATED OFFSET TAIL PIECE IN ADDITION TO P-TRAP WITH CLEANOUT. INSULATE P-TRAP AND HOT & COLD WATER PIPES WITH PRE-FORMED & FINISHED SURFACE INSULATION. ARMAFLEX INSULATION AND TAPE NOT ACCEPTABLE.
 6. URINAL WASTE PIPE & FITTINGS SHALL BE DOW PVC EQUIVALENT TO IPEX SYSTEM 15. EXTEND PLASTIC PIPING UP TO COMBINED WASTE FROM ADJACENT LAVATORY OR OTHER PLUMBING FIXTURES ALLOWING DILUTION OF WASTE.

16. THERMAL INSULATION FOR DUCTING:

1. FLAME AND SMOKE:
 1. IN ACCORDANCE WITH CAN/ULC S102:
 1. MAXIMUM FLAME SPREAD RATING: 25.
 2. MAXIMUM SMOKE DEVELOPED RATING: 50.
2. INSULATION:
 1. MINERAL FIBRE AS SPECIFIED HEREIN INCLUDES GLASS FIBRE, ROCK WOOL, SLAG WOOL, ETC.
 2. THERMAL CONDUCTIVITY ("K" FACTOR) NOT TO EXCEED SPECIFIED VALUES AT 24°C MEAN TEMPERATURE WHEN TESTED IN ACCORDANCE WITH ASTM C335/C335M.
 3. RIGID MINERAL FIBRE BOARD TO CAN/CGSB-51.10, WITH FACTORY APPLIED VAPOUR RETARDER JACKET TO CGSB 51-51-52MA.
 4. MINERAL FIBRE BLANKET TO CAN/CGSB-51.11 FACED WITH FACTORY APPLIED VAPOUR RETARDER JACKET TO CGSB 51-51-52MA.
 1. MINERAL FIBRE: TO CAN/CGSB-51.11.
 2. JACKET: TO CGSB 51-51-52MA.
 3. MAXIMUM "K" FACTOR: TO CAN/CGSB-51.11.
 4. DENSITY: 24 KG/M3.

4. RECTANGULAR AND FITTINGS: GALVANIZED SHEET STEEL NOT LESS THAN THE FOLLOWING THICKNESS: 24 GA. - 75MM (30") WIDE SMOKESTRIKE; 20 GA. - 75MM (30") WIDE SMOKESTRIKE.
5. ROUND & OVAL DUCT AND FITTINGS SHALL BE SPIRAL GALVANIZED STEEL MEETING THE ASTM A-527-71 & NOT LESS THAN THE FOLLOWING THICKNESS: 20 GA. - 75MM TO 350MM (1" TO 14") DIA. 24 GA. - 350MM (14") DIA. & LARGER.
6. SEAL CLASSIFICATION: SMA2CA SEAL CLASS A.

3. UNIT TOP:
 1. THE TOP COVER SHALL BE ONE PIECE CONSTRUCTION OR, WHERE SEAMS EXIST, IT SHALL BE DOUBLE-HEMMED AND GASKET-SEALED. THE ROBBED TOP ADDS EXTRA STRENGTH AND FINANCES WATER REMOVAL FROM UNIT TOP.
4. COMPRESSORS:
 1. ALL UNITS SHALL HAVE DIRECT-DRIVE, HERMETIC, SCROLL TYPE COMPRESSORS WITH CENTRIFUGAL TYPE OIL PUMPS. MOTOR SHALL BE SUCTION GAS-COOLED AND SHALL HAVE A VOLTAGE UTILIZATION RANGE OF PLUS OR MINUS 10 PERCENT OF UNIT NAMEPLATE VOLTAGE. INTERNAL OVERLOADS SHALL BE PROVIDED WITH THE SCROLL COMPRESSORS.
 2. THIS 3-POLE, MOLDED CASE, DISCONNECT SWITCH WITH PROVISIONS FOR THROUGH THE BASE ELECTRICAL CONNECTIONS. THE DISCONNECT SWITCH SHALL BE INSTALLED IN THE UNIT IN A WATER TIGHT ENCLOSURE WITH ACCESS THROUGH A SWINGING DOOR. WIRING SHALL BE PROVIDED FROM THE SWITCH TO THE UNIT HIGH VOLTAGE TERMINAL BLOCK. THE SWITCH SHALL BE UL/CSA AGENCY RECOGNIZED.
 3. NUMBER AND LOCATION OF VERIFIED RESULTS TO BE AT DISCRETION OF ENGINEER.
 4. BEAR COSTS TO REPEAT TAB AS REQUIRED TO SATISFACTION OF ENGINEER.
 5. PRODUCE "AS-BUILT" FULL SYSTEM SCHEMATICS. USE AS-BUILT DRAWINGS FOR REFERENCE.

2. DO TAB TO FOLLOWING TOLERANCES OF DESIGN VALUES:
 1. HVAC SYSTEMS: PLUS OR MINUS 5%.
 2. ADJUST OR REPLACE SHEAVES AS REQUIRED TO MEET DESIGN PERFORMANCE.
 3. HEATING SECTION:
 1. THE HEATING SECTION SHALL HAVE A PROGRESSIVE TUBULAR HEAT EXCHANGER DESIGN USING STAINLESS STEEL BURNERS AND CORROSION RESISTANT STEEL THROUGHOUT. AN INDUCED DRAW COMBUSTION BLOWER SHALL BE USED TO PULL THE COMBUSTION PRODUCTS THROUGH THE FIRING TUBES. THE HEATER SHALL USE A DIRECT SPARK IGNITION (DSI) SYSTEM.
 4. CONVENIENCE OUTLET:
 1. GFCI, 120V /15AMP, 2 PLUG, CONVENIENCE OUTLET. THE CONVENIENCE OUTLET IS POWERED FROM THE LINE SIDE OF THE DISCONNECT OR CIRCUIT BREAKER.
 5. ECONOMIZER:
 1. THE ASSEMBLY INCLUDES FULLY MODULATING 0-100 PERCENT MOTOR AND DAMPERS, MINIMUM POSITION SETTING, PRESET LINKAGE, WIRING HARNESS WITH PLUG, SPRING RETURN ACTUATOR AND FIXED DRY BULB CONTROL. THE BAROMETRIC RELIEF SHALL PROVIDE A PRESSURE OPERATED DAMPER THAT SHALL BE GRANTY CLOSING AND SHALL PROHIBIT ENTRANCE OF OUTSIDE AIR DURING THE EQUIPMENT OFF CYCLE.
 6. AIR SYSTEMS:
 1. INCLUDE BOTH SPECIFIED AND MEASURED DATA:
 1. MINIMUM & MAXIMUM PRIMARY & SECONDARY AIRFLOWS
 2. OPERATING PRESSURES
 3. DUCT SIZE & TRANSVERSE READINGS
 4. MOTOR VOLTS, AMPS & POWER
 2. FOR THE FOLLOWING EQUIPMENT:
 1. RTU'S
 2. SUPPLY DUCTWORK
 3. DIFFUSERS/GRILLES

25. WALL MOUNTED DUCTLESS SPLIT:

1. GENERAL:
 1. INTEGRATED PACKAGE: TO CAN/CSA C656.
 2. SYSTEM TYPE:
 1. AIR FLOW ARRANGEMENT: WALL MOUNTED CASSETTE.
 2. COOLING: DIRECT EXPANSION WITH MATCHING AIR COOLED CONDENSING UNIT.
 3. UNIT CAPACITY: REFER TO EQUIPMENT SCHEDULE.
 4. UNIT CAPACITY: TO BE SIZED USING INDOOR AIR AT 22°C AND 50% RH & OUTDOOR AIR AT 35°C.
 5. CAPABLE OF OPERATING WITH A REFRIGERANT PIPING LENGTH OF 20 METERS (65 FT.).
 6. UNIT TO BE EQUIPPED WITH UNIT MOUNTED CONDENSATE PUMP.
 7. ACCEPTABLE MATERIALS: MITSUBISHI OR APPROVED EQUIVALENT BY ADDENDUM.
2. CABINET:
 1. GALVANIZE STEEL FRAME, EPOXY COATED FINISH. READY FOR CEILING MOUNTING COMPLETE WITH WHITE PLASTIC COVER.
 2. CABINET TO HOUSE: COOLING COIL, FANS, FILTERS AND ELECTRICAL CONTROLS.
 3. PROVIDE ADEQUATE ACCESS TO COMPONENTS FOR SERVICING.
3. FILTER HOUSING:
 1. THE FILTER CHAMBER SHALL BE AN INTEGRAL PART OF THE CABINET AND LOCATED AT THE ENTRANCE OF THE RETURN AIR PATH AND SHOULD BE SERVICABLE FROM BELOW.
 2. FILTER SHALL BE A REMOVABLE AND WASHABLE.
4. FAN:
 1. DIRECT DRIVE, DOUBLE WIDTH FAN WHEELS WITH FORWARD CURVED BLADES, STATIONALLY AND DYNAMICALLY BALANCED.
5. COMPRESSORS:
 1. HERMETIC TYPE, WITH VIBRATION ISOLATORS, ADJUSTABLE HIGH AND LOW PRESSURE SWITCHES, ANTI-SLUG DEVICE, MOTOR OVERLOAD AND OVERTEMPERATURE PROTECTION PUMP DOWN CONTROLS, REFRIGERANT SERVICE VALVES AND CAPACITY CONTROLS.
6. COOLING COIL:
 1. ALUMINUM FINNS, MECHANICALLY BONDED TO COPPER TUBES, TESTED TO 1.7 MPA, MAXIMUM FACE VELOCITY 2.8 M/S, WITH STAINLESS STEEL INSULATED CONDENSATE TRAY AND DRAIN CONNECTIONS.
 2. DIRECT EXPANSION, WITH SEPARATE REFRIGERANT CIRCUIT FOR EACH COMPRESSOR AND SHALL BE SPLIT.
 3. COOLING COIL CONDENSATE DRAIN PANS: DESIGNED TO AVOID ANY STANDING WATER, TO BE EASILY CLEANED OR REMOVABLE FOR CLEANING.
 7. AIR COOLED CONDENSER:
 1. AIR COOLED: FREE STANDING, WELDED STEEL UNIT CONSTRUCTION, CORROSION PROTECTED.
 2. ALUMINUM FINNS, MECHANICALLY BONDED TO COPPER TUBES, TESTED TO 3.1 MPA.
 3. PROPPELLER TYPE FANS, DIRECT DRIVE.
 4. ELECTRICAL AND CONTROL COMPONENTS HOUSED IN WEATHER-TIGHT ACCESS PANELS WITH ELECTRICAL DISCONNECT SWITCH AND CONTROL CABLE FOR CONTROL INTERCONNECTION.
 5. VIBRATION ISOLATION: PROVIDING AT LEAST 95% ISOLATION EFFICIENCY.
8. REFRIGERANT PIPING, VALVES, FITTINGS AND ACCESSORIES WITHIN UNIT:
 1. INCLUDE FOR EACH REFRIGERANT CIRCUIT:
 1. GAS & LIQUID LINE INSULATION: FLEXIBLE ELASTOMERIC UNICULAR TO CAN/CGSB 51.40, 12 MM MINIMUM THICKNESS.
 2. THE SYSTEM SHALL INCORPORATE A PROGRAMMABLE TEMPERATURE CONTROLLER. THE CONTROLLER SHALL BE SHIPPED LOOSE FOR FIELD MOUNTING WITH FACTORY WIRED AIR TEMPERATURE SENSOR. THE CONTROLLER SHALL INDICATE TEMPERATURE AND INCLUDE THE FOLLOWING: FAN SELECTOR, BUILT-IN SHORT CYCLE PROTECTION, NIGHT SET BACK AND MANUAL OVERRIDE.
 10. REFRIGERANT CHARGE:
 1. CHARGE REFRIGERANT SYSTEM AT FACTORY, SEAL AND TEST.

3. SOFT COPPER: ANNEALED, TO ASTM B280, WITH MINIMUM WALL THICKNESS AS PER CSA B52 SMART AND ASME B31.5, BARE OR PRE-INSULATED.
2. FITTINGS:
 1. SERVICE: DESIGN PRESSURE 300 PSI AND TEMPERATURE 121°C.
 2. BRAZED:
 1. FITTINGS: WROUGHT COPPER TO ASME B16.22.
 2. JOINTS: SILVER SOLDER, 45% 40-15% CU AND NON-CORROSIVE FLUX.
 3. FLANGED:
 1. BRONZE OR BRASS, TO ASME B16.24, CLASS 150 AND SORE RA1 & OUTDOOR AIR AT 35°C.
 2. GASKETS: SUITABLE FOR SERVICE.
 3. BOLTS, NUTS AND WASHERS: TO ASTM A307, HEAVY SERIES.
 4. FLARED:
 1. BRONZE OR BRASS, FOR REFRIGERATION, TO ANS/ASME16.26.
3. PIPE SLEEVES:
 1. HARD COPPER OR STEEL, SIZED TO PROVIDE 7 MM (1/4") CLEARANCE ALL AROUND BETWEEN SLEEVE AND UNINSULATED PIPE OR BETWEEN SLEEVE AND INSULATION.
4. VALVES:
 1. 20 MM (3/4") AND UNDER: CLASS 500, 3,450 KPA (500 PSIG), GLOBE OR ANGLE NON-DIRECTIONAL TYPE, DIAPHRAGM, PACKLESS TYPE, WITH FORGED BRASS BODY AND BONNET, MOISTUREPROOF SEAL FOR BELOW FREEZING APPLICATIONS, BRAZED CONNECTIONS.
 2. OVER 20 MM (3/4") - CLASS 375, 2,585 KPA (375 PSIG), GLOBE OR ANGLE TYPE, DIAPHRAGM, PACKLESS TYPE, BACK-SEATING, CAP SEAL, WITH CAST BRONZE BODY AND BONNET, MOISTUREPROOF SEAL FOR BELOW FREEZING APPLICATIONS, BRAZED CONNECTIONS.
5. INSULATION:
 1. TAC CODE A-6: FLEXIBLE UNICELLULAR TUBULAR ELASTOMER.
 1. TO ASTM C634 WITH ANTI-MICROBIAL PROTECTION.
 2. "K" VALUE: 0.04 W/m°C AT 24°C MEAN TEMPERATURE.
 3. TEMPERATURE RANGE: -4°C TO 100°C.
 4. 25/50 RATED TO ASTM E84.
 5. THICKNESS: 13 MM UNLESS OTHERWISE INDICATED.
 6. ACCEPTABLE MATERIAL: ARMACELL AP ARMAFLEX BLACK LAP SEAL, AEROCEL SPTI, OR APPROVED EQUAL.
 6. INSULATION SECUREMENT: TAPE: SELF-ADHESIVE, REINFORCED, 50 MM WIDE MINIMUM TO INSULATION MANUFACTURER'S RECOMMENDATION.
7. JACKETS:
 1. ALUMINUM ON ALL OUTDOOR PIPING:
 1. TO ASTM B209.
 2. THICKNESS: 0.50 MM SHEET.
 3. FINISH: EMBOSSED.
 4. JOINTS: LONGITUDINAL AND CIRCUMFERENTIAL SLIP JOINTS WITH 10 MM LAPS.
 5. FITTINGS: 0.5 MM THICK DEE-SHAPED FITTING COVERS WITH FACTORY-ATTACHED PROTECTIVE LINER.
 6. METAL JACKET BANDING AND MECHANICAL SEALS: STAINLESS STEEL, 19 MM WIDE, 0.5 MM THICK AT 300 MM SPACING.
 8. INSTALLATION:
 1. HARD DRAWN COPPER TUBING: DO NOT BEND. MINIMIZE USE OF FITTINGS.
 2. SUPPORT PIPING USING UNISTRUT WITH CUSHION CLAMPS.
 3. HOT GAS LINES:
 1. PITCH AT LEAST 1:240 DOWN IN DIRECTION OF FLOW TO PREVENT OIL RETURN TO COMPRESSOR DURING OPERATION.
 2. PROVIDE TRAP AT BASE OF RISERS GREATER THAN 2,400 MM (8 FEET) HIGH.
 3. PROVIDE INVERTED DEEP TRAP AT TOP OF EACH RISER.
 4. PROVIDE DOUBLE RISERS FOR COMPRESSORS HAVING CAPACITY MODULATION.
 1. LARGE RISER: INSTALL TRAPS AS SPECIFIED ABOVE.
 2. SMALL RISER: SIZE FOR 5.1M/S AT MINIMUM LOAD. CONNECT UPSTREAM OF TRAPS ON LARGE RISER.
 4. PRESSURE AND LEAK TEST TO MANUFACTURER'S RECOMMENDATIONS.

Client

DATE	REVISION	REF
2021-01-06	ISSUED FOR POST TENDER ADDENDUM	-
2020-07-24	ISSUED FOR TENDER	-
2020-05-27	ISSUED FOR PERMIT	-
2020-05-08	ISSUED FOR REVIEW	-

THE ENGINEER MAKES 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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Projet north Nord du projet

Seal/Sciau

Project/Projet

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Drawing title/Titre du dessin

MECHANICAL SPECIFICATIONS, SCHEDULES & DETAILS

Scale	AS NOTED	Project no./No. du projet	2019-333-1
Échelle			
Design by	P. LABELLE	Drawing/Desain	
Drawn by	H. FALLAH		
Designé par			
Reviewed by	F. BANN		
Examiné par			
Date	JANUARY 2021	Revision no.	-
Date		Acad file/Fichier:	-

ROOFTOP UNIT SCHEDULE WITH HEAT RECOVERY

TAG	2500	AREA SERVED	SUPPLY FAN DATA (VSD)				GAS HEATING SECTION				DX COOLING COIL DATA				ELECTRICAL DATA		REMARKS						
			FAN TYPE	AIR FLOW (L/s)	EXTERNAL STATIC PRESSURE (Pa)	TOTAL STATIC PRESSURE (Pa)	MOTOR SIZE (HP)	INPUT (kW)	OUTPUT (kW)	E.A.T. (°C)	L.A.T. (°C)	MODULATION	TOTAL CAPACITY (kW)	SENSIBLE CAPACITY (kW)	E.A.T. (DB/WB) (°C)	L.A.T. (DB/WB) (°C)		STAGES	MCA/MOP	V/PH/Hz			
																					SOUND POWER LEVEL (dB)		
RTU-1	GROUND FLOOR (BESIDE THE BLD.)	FELLOWSHIP HALL (#111)	FC CENTRIFUGAL	2360	250	260	3	102	82	21	50	2.5 : 1	49.3	37	26.6/19.4	13.8/13.3	2	68/90	208/3/60	DISCHARGE LW(dB)/RETURN LW(dB)	86/92 80/79 71/72 70/67 66/61 67/62	TRANE VOYAGER	YH1803R/B

NOTES: 1. FOR DETAILS REFER TO SPECIFICATIONS.
2. MANUFACTURER NAME & MODEL NUMBER REPRESENTS ACCEPTABLE QUALITY STANDARD ONLY. ALTERNATIVE MATERIALS MAY BE APPROVED AFTER REVIEW OF TECHNICAL INFORMATION BY ENGINEER.

FIXTURE CONNECTION SCHEDULE

TAG	DOMESTIC COLD WATER (Ømm)	DOMESTIC HOT WATER (Ømm)	SANITARY (Ømm)	COMMENTS	BASIS OF DESIGN
WC1	13	-	75	381 MM HIGH TOILET, VITREOUS CHINA, FLOOR MOUNTED, 4.8 L PER FLUSH, TWO PIECE, ELONGATED BOWL, HEAVY DUTY TOILET SEAT, SOLID PLASTIC, OPEN FRONT LESS COVER.	AMERICAN STANDARD #215CA.104.020, CADET PRO ELONGATED, CENTICO #50051SC.001
WC2	13	-	75	419 MM HIGH TOILET, VITREOUS CHINA, FLOOR MOUNTED, 4.8 L PER FLUSH, TWO PIECE, ELONGATED BOWL, HEAVY DUTY TOILET SEAT, SOLID PLASTIC, OPEN FRONT WITH COVER. PROVIDE BOLTED TANK COVER TO MEET LOCAL CODES.	AMERICAN STANDARD #215AA.164.020, CADET PRO RIGHT HEIGHT ELONGATED, CENTICO #82051S.001
U1	20	-	50	URINAL, WHITE FINISH VITREOUS CHINA, OPERATES IN THE RANGE OF 0.5 L TO 3.8 L PER FLUSH, WALL HUNG, CHROME PLATED, NON-METALLIC STRAINER, EXPOSED MANUAL FLUSHMETER FOR TOP SPUD URINAL, 1.9 L FACTORY SET FLOW, MOUNTED ON CONCRETE FLOOR, FIXTURE CARRIER.	AMERICAN STANDARD #8590.001.020, WASHBROOK FLOWISE SLOAN #RECAL 166-0.5-XL, REGAL WATTS #CA-321
LAV1	13	13	40	BASIN, WHITE FINISH, SELF-RIMMING / DROP-IN, SINGLE HANDLE FAUCET, BELOW DECK MECHANICAL WATER MIXING VALVE, INTEGRAL CHECKS, OPEN GRID DRAIN, POLISHED BRASS FAUCET SUPPLIES	AMERICAN STANDARD #9494.001.020 "CADET UNIVERSAL ACCESS CHICAGO FAUCETS #420-ABCP LAWLER #1MM-1070
LAV2	13	13	40	WALL HUNG BASIN - TWO HANDLES MANUAL FAUCET BELOW DECK MECHANICAL WATER MIXING VALVE, OPEN GRID DRAIN, BASIN CARRIER	AMERICAN STANDARD #095A.004EC.020/0059.020EC.020 "MURRO WITH EVERCLEAN CHICAGO FAUCETS #895-317FCBPC LAWLER #1MM-1070 WATTS #WCA-411-CA-481,
KS	13	13	40	COUNTER MOUNTED COUNTERTOP MOUNT SINK - SINGLE HANDLE FAUCET/BELW DECK MECHANICAL WATER MIXING VALVE	FRANKE COMMERCIAL #LBS6808-1/3 AMERICAN STANDARD #4175300.002, LAWLER #1MM-1070
MS	20	20	75	FLOOR MOUNTED SERVICE / MOP SINK - TWO HANDLES FAUCET, BUMPER GUARD 610 MM (24") EXTRUDED VINYL, MOP HANGER 22 GA. (0.8 MM) TYPE 304 STAINLESS STEEL	FIAT #MSB2424100, "MODESTO FIAT #830-4A,
BFS1	20	-	50	DRINKING FOUNTAIN & BOTTLE FILLING STATION WITH SINGLE FILTERED WATER COOLER, SENSOR TOUCHLESS ACTIVATION	ELKAY #LZ38WSLPL WATTS #CA-311
FD	-	-	75	REVERSIBLE FLASHING CLAMP WITH PRIMARY AND SECONDARY WEEPHOLES, NO HUB OUTLET, TRAP PRIMER CONNECTION WITH PLUG, 75 MM ADJUSTABLE ROUND STRAINER, 127 MM DIAMETER, NICKEL BRONZE	WATTS FD-103-C-AS-1-7-61

NOTES: 1. COORDINATE EXACT PIPING LOCATIONS ON SITE.
2. VENT TO MEET OBC REQUIREMENTS, VENTING THROUGH SLOPED ROOFS NOT PERMITTED.
3. MANUFACTURER NAME & MODEL NUMBER REPRESENT ACCEPTABLE QUALITY STANDARD ONLY.
4. INSTALLATION OF BARRIER FREE FIXTURES SHALL COMPLY WITH BARRIER FREE REQUIREMENTS OF OBC.
5. FOR BARRIER FREE SINKS & LAVATORIES, INSULATE DOMESTIC HOT WATER AND DRAIN PIPING UNDER COUNTER. SEE ARCH. DWG FOR DETAILS. ACCEPTABLE MATERIAL: CABINET/GUARD WHITE OR MINERAL FIBRE WITH WHITE PVC JACKET.

FINNED TUBE RADIATION SCHEDULE

TAG	CABINET (SLOPED TOP / TOP OUTLET / FRONT OUTLET)	ARRANGEMENT (WALL MOUNTED / FREE STANDING)	PIPE SIZE (NPS-mm)	FN SIZE (mmW x mmH)	FINS/METRE	EW (°C)	LWT (°C)	EAT (°C)	DIMENSIONS WxH(mm)	BASIS OF DESIGN	REMARKS
WF	FLAT TOP	FLOOR MOUNTED	20	100X100	170	82.2	71.1	18	133X250	ROSME-RVP-ARG-A-RAF4C1	-

NOTES: 1. FOR DETAILS REFER TO SPECIFICATIONS.
2. DISCONNECT SWITCH BY D16.

ELECTRIC DOMESTIC WATER HEATER SCHEDULE

TAG	LOCATION	INPUT (kW)	STORAGE CAPACITY (L)	RECOVERY RATE (L/h) @ 56°C	ELECTRICAL DATA	BASIS OF DESIGN	REMARKS
					AMPS	V/PH/Hz	
DHWT-1	JANITOR ROOM	2 x 3kW	303	46	14.4	208/3/60	RHEEM ED80

NOTES: 1. FOR DETAILS REFER TO SPECIFICATIONS.
2. MANUFACTURER NAME & MODEL NUMBER REPRESENT ACCEPTABLE QUALITY STANDARD ONLY.
3. ALTERNATIVE MATERIALS MAY BE APPROVED AFTER REVIEW OF TECHNICAL INFORMATION BY ENGINEER.

GRILLE AND DIFFUSER SCHEDULE

UNIT NO.	TYPE	MODULE (mm)	INLET (mm)	MOUNT	FINISH	BASIS OF DESIGN	REMARKS
SSD-1	INTEGRATED DUCT SUPPLY DIFFUSER	AS INDICATED	AS INDICATED	DUCT	CUSTOM	NAD KLIMA 2000mm LONG 3 SLOTS	
SG1	SUPPLY AIR GRILLE	AS INDICATED	AS INDICATED	DUCT	B12	EH PRICE 520	ADJUSTABLE DOUBLE DEFLECTION
RG1	RETURN AIR GRILLE	AS INDICATED	AS INDICATED	WALL	WHITE	EH PRICE 510 SERIES	

NOTES: 1. FOR DETAILS REFER TO SPECIFICATIONS.

DUCTLESS SPLIT UNIT SCHEDULE

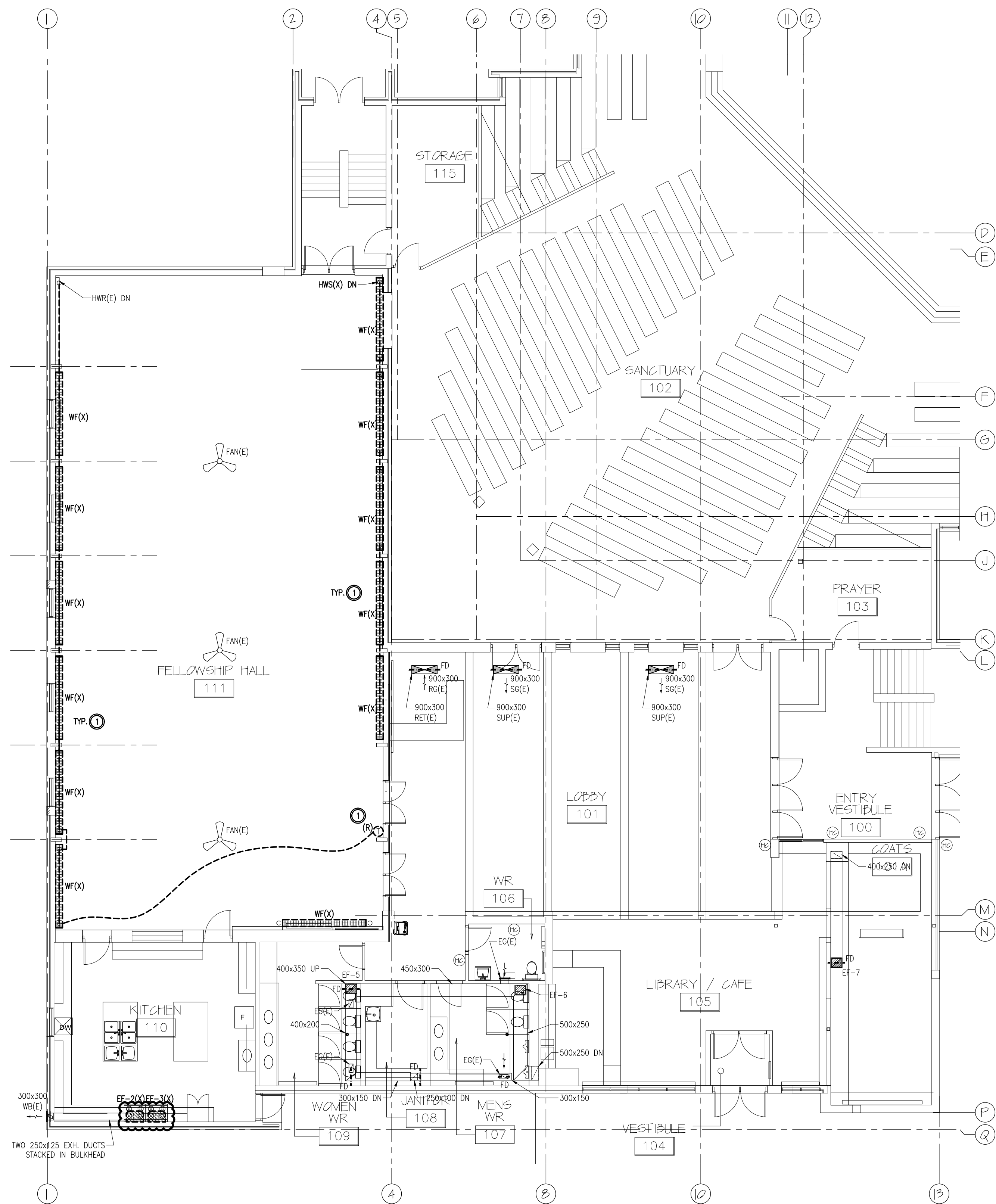
TAG	LOCATION	AIR FLOW (L/s)	COOLING TOTAL CAPACITY (kW)	ELECTRICAL DATA MOTOR SIZE (W) V/PH/Hz	REFRIGERANT TYPE	BASIS OF DESIGN	REMARKS
AC-1	KITCHEN	245	5.27	30 208/1/60	R410A	MITSUBISHI-MSY-G118NA-U1	-

NOTES: 1. FOR DETAILS REFER TO SPECIFICATIONS.

CONDENSER UNIT SCHEDULE

TAG	LOCATION	FUNCTION	CAPACITY (kW)	ELECTRICAL DATA FLA/MCA V/PH/Hz	BASIS OF DESIGN	REMARKS
C-1	OUTSIDE ON THE GROUND	AC-1	5.27	0.93/14 208/1/60	MITSUBISHI-MWY-G118NA-U1	-

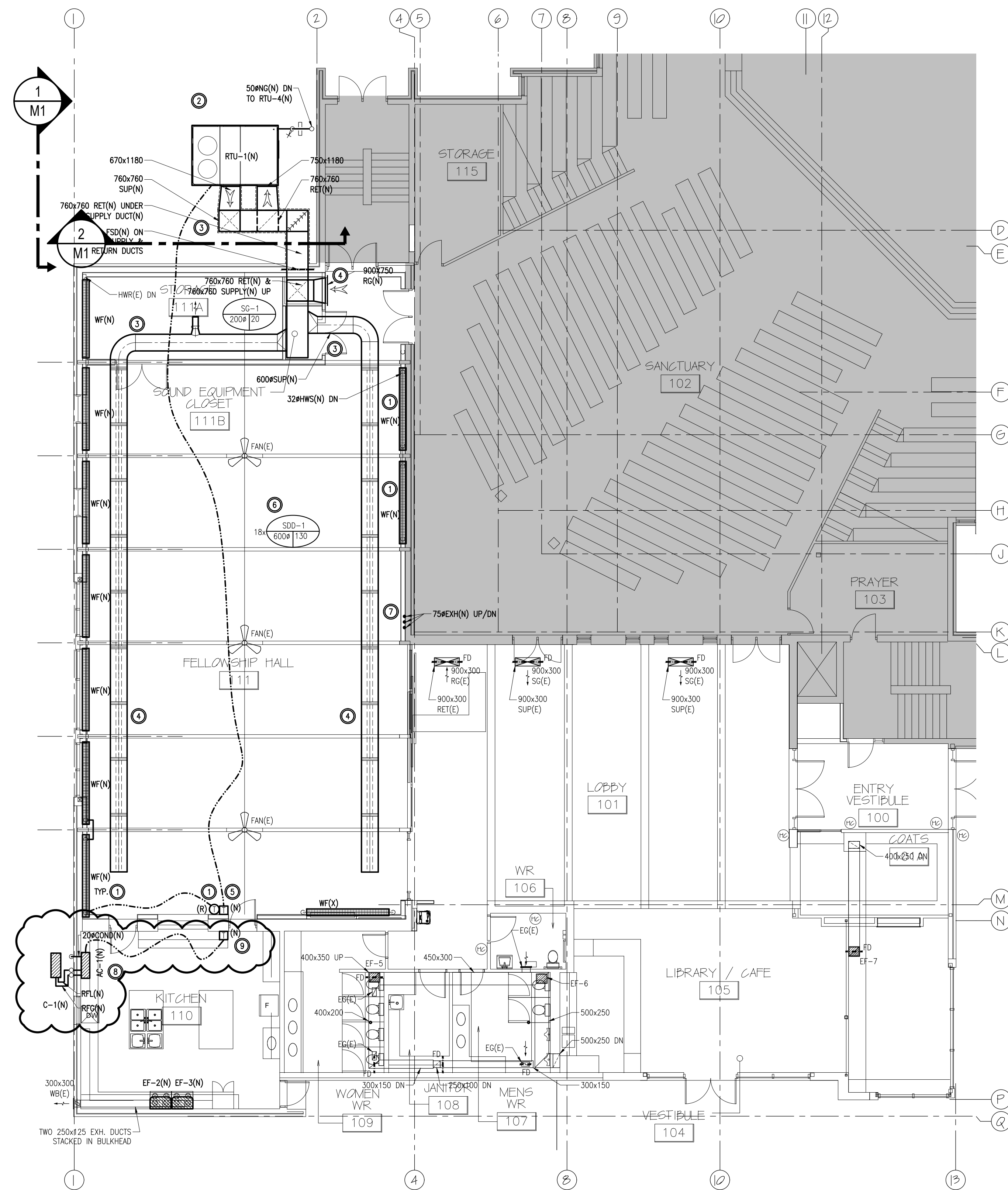
NOTES: 1. FOR DETAILS REFER TO SPECIFICATIONS.



**GROUND FLOOR LEVEL
MECHANICAL - HVAC & UTL - REMOVALS**
1:100

DRAWING NOTES - REMOVALS (GROUND FLOOR)

- CONTRACTOR TO REMOVE SECTIONS OF WALL FIN AS INDICATED C/W PIPING AND ACCESSORIES. REMOVE THE THERMOSTAT AND RETAIN FOR NEW WORK.



**GROUND FLOOR LEVEL
MECHANICAL - HVAC & UTL - NEW WORK**
1:100

DRAWING NOTES - NEW WORK (GROUND FLOOR) CONTINUED

- PROVIDE NEW WALL MOUNTED DUCTLESS SPLIT UNIT & NEW CONDENSER UNIT C/W ASSOCIATED ACCESSORIES.
- PROVIDE NEW THERMOSTAT C/W ASSOCIATED ACCESSORIES AND WIRING. REFER TO DETAILS 3/M1 FOR COMPLETE SCOPE OF WORK.

DRAWING NOTES - NEW WORK (GROUND FLOOR)

- CONTRACTOR TO PROVIDE NEW WALL FIN C/W PIPING, VALVES AND ACCESSORIES. RELOCATE THERMOSTAT AND PROVIDE REQUIRED ACCESSORIES.
- CONTRACTOR TO PROVIDE NEW RTU UNIT ON CONCRETE BASE LOCATED AT GRADE.
- CONTRACTOR TO PROVIDE SUPPLY AND RETURN AIR DUCTWORK C/W INSULATION, SUPPORTS AND ACCESSORIES.
- CONTRACTOR TO PROVIDE SUPPLY AIR DUCT DIFFUSER AND RETURN GRILL C/W ACCESSORIES.
- CONTRACTOR TO PROVIDE THERMOSTAT C/W CONTROL WIRING FOR NEW RTU.
- CONTRACTOR TO BALANCE AND ADJUST RTU AND SUPPLY DIFFUSERS TO CAPACITIES INDICATED. SUBMIT REPORT TO ENGINEER FOR REVIEW.
- CONTRACTOR TO EXTEND THE FURNACE BREACHING FROM BASEMENT THROUGH GROUND FLOOR AND UP TO ROOF LINE WITHIN RATED SHAFT. PROVIDE FIRE CALLER AT CEILING AT UNDER SIDE OF THE ATTIC. CONTRACTOR TO PROVIDE FIRE WRAP ON BREACHING LOCATED IN ATTIC UP TO ROOF LINE.

Client

DATE	REVISION	REF
2021-01-06	ISSUED FOR POST TENDER ADDENDUM	-
2020-07-24	ISSUED FOR TENDER	-
2020-05-27	ISSUED FOR PERMIT	-
2020-05-08	ISSUED FOR REVIEW	-

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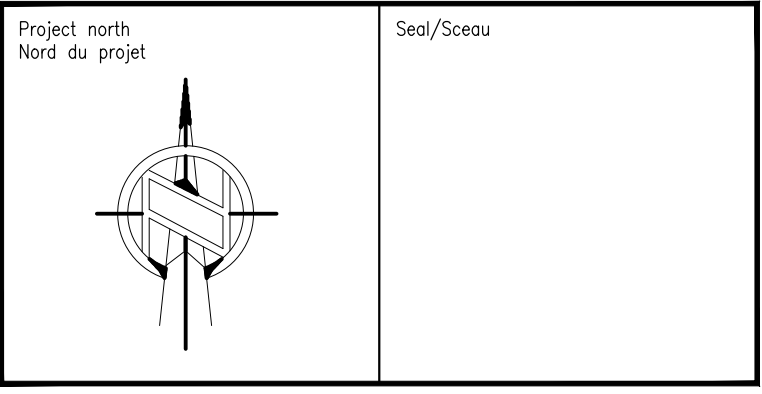
L'INGÉNIEUR DÉCLINE TOUTE RESPONSABILITÉ DÉCOULANT DE PROBLÈMES FASANT SUITE AU NON RESPECT DES PLANS, DEVS ET DE L'INTENTION DU CONCEPT QU'ILS INDIQUENT OU DE TOUTS LES PROBLÈMES POUVANT RÉSULTER DU DÉFAUT D'OBTENIR ET / OU DE SUIVRE LES CONSEILS DE L'INGÉNIEUR EN CE QUI CONCERNE LES ERREURS, OMISSIONS, INCONSISTENCES, AMBIGUITÉS OU CONFLITS ALLEGUÉS.

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Project/Projet
**ARLINGTON WOODS
FREE METHODIST CHURCH
RENOVATION**
225 McClellan Rd, Ottawa, ON K2H 8N5
Drawing title/Titre du dessin

**MECHANICAL
GROUND FLOOR
HVAC AND UTILITIES
REMOVALS & NEW WORK**

Scale Échelle	AS NOTED	Project no./No. du projet 2019-333-1
Design by Conçu par	P. LABELLE	Drawing/Dessin
Drawn by Dessiné par	H. FALLAH	M5
Reviewed by Examiné par	F. BANN	
Date	JANUARY 2021	Revision no. Acad file/Fichier: -

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-SMAC36-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/PENDENT 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, R57C
	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

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

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 (IE. 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 (IE. 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:

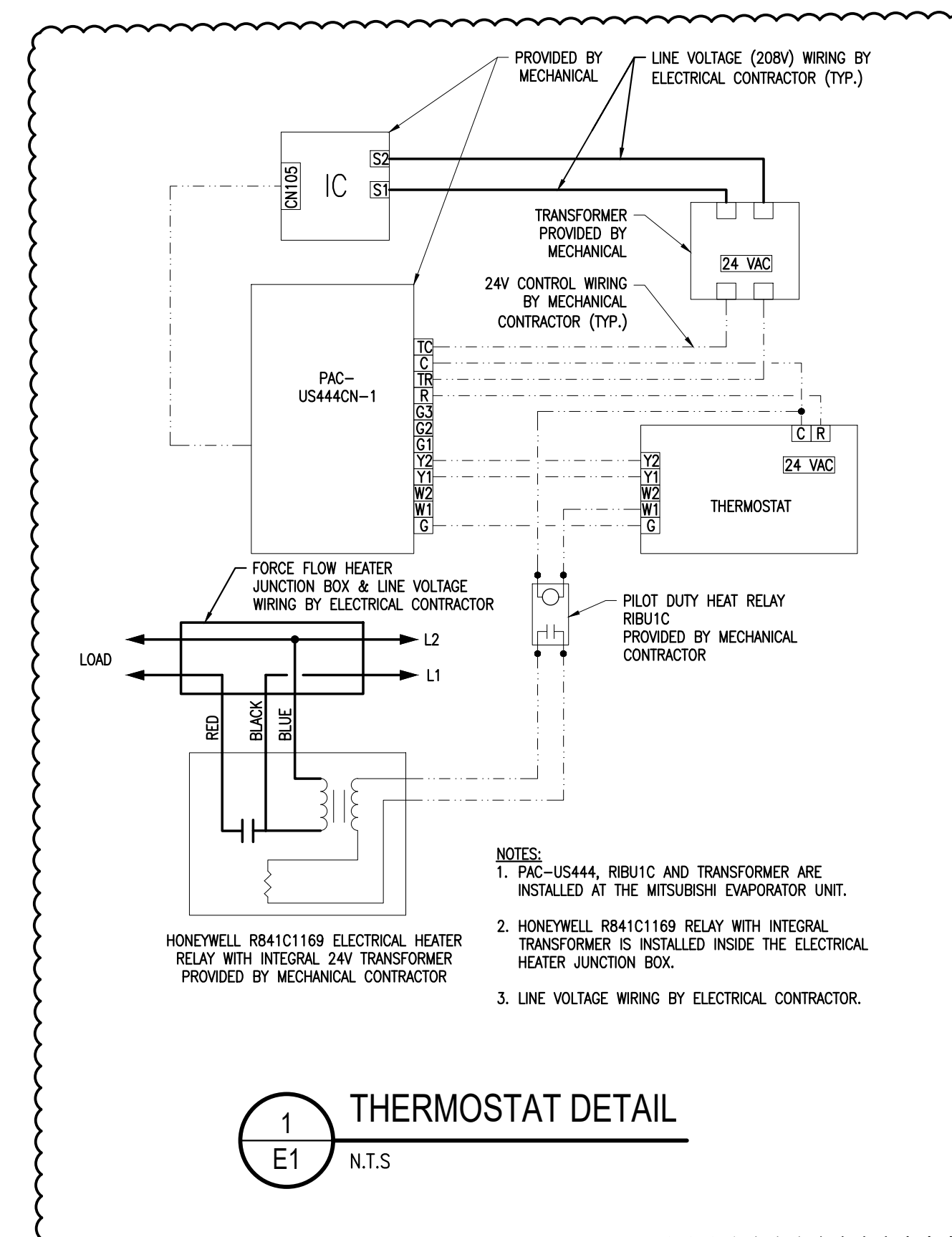
- ENSURE EXISTING REMAINING OUTLETS IN AFFECTED AREA ARE FUNCTIONAL.
- DO NOT MOUNT WALL OUTLETS BACK TO BACK. LEAVE MINIMUM 300mm [12"] SPACE BETWEEN OUTLETS. STAGGER OUTLETS WITHIN ALTERNATE STUD CAVITIES. DO NOT ANCHOR BACK TO BACK OUTLETS TO THE SAME STUD.

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.



DATE	REVISION	REF
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	--

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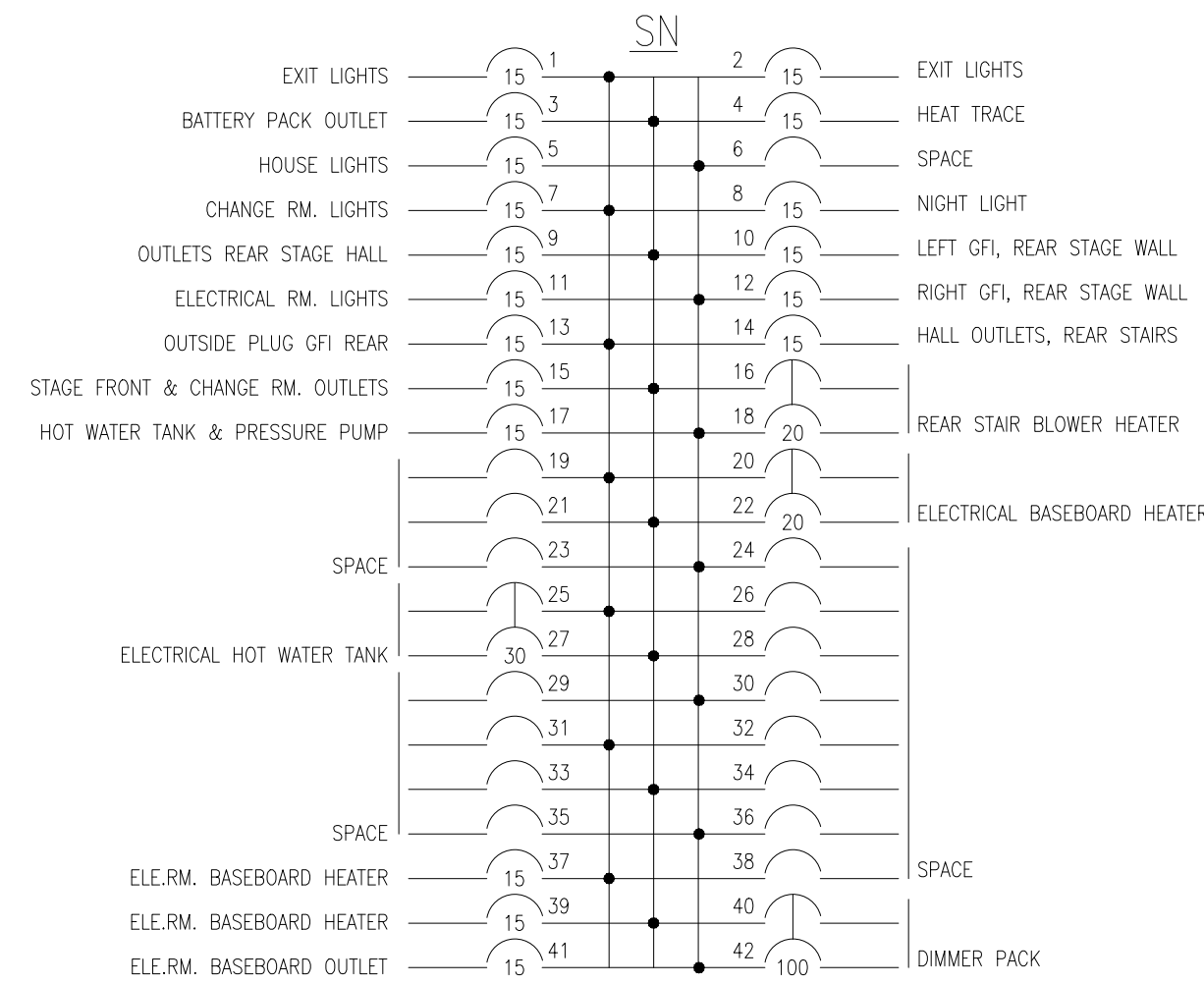
Project/Projet
ARLINGTON WOODS FREE METHODIST CHURCH RENOVATION
225 McClellan Rd, Ottawa, ON K2H 8N5

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 E1
Drawn by Dessiné par	J.ANTALA	of 10
Reviewed by Examiné par	D.VYAS	
Date Date	JANUARY 2021	Revision no: Acad file/Fichier:

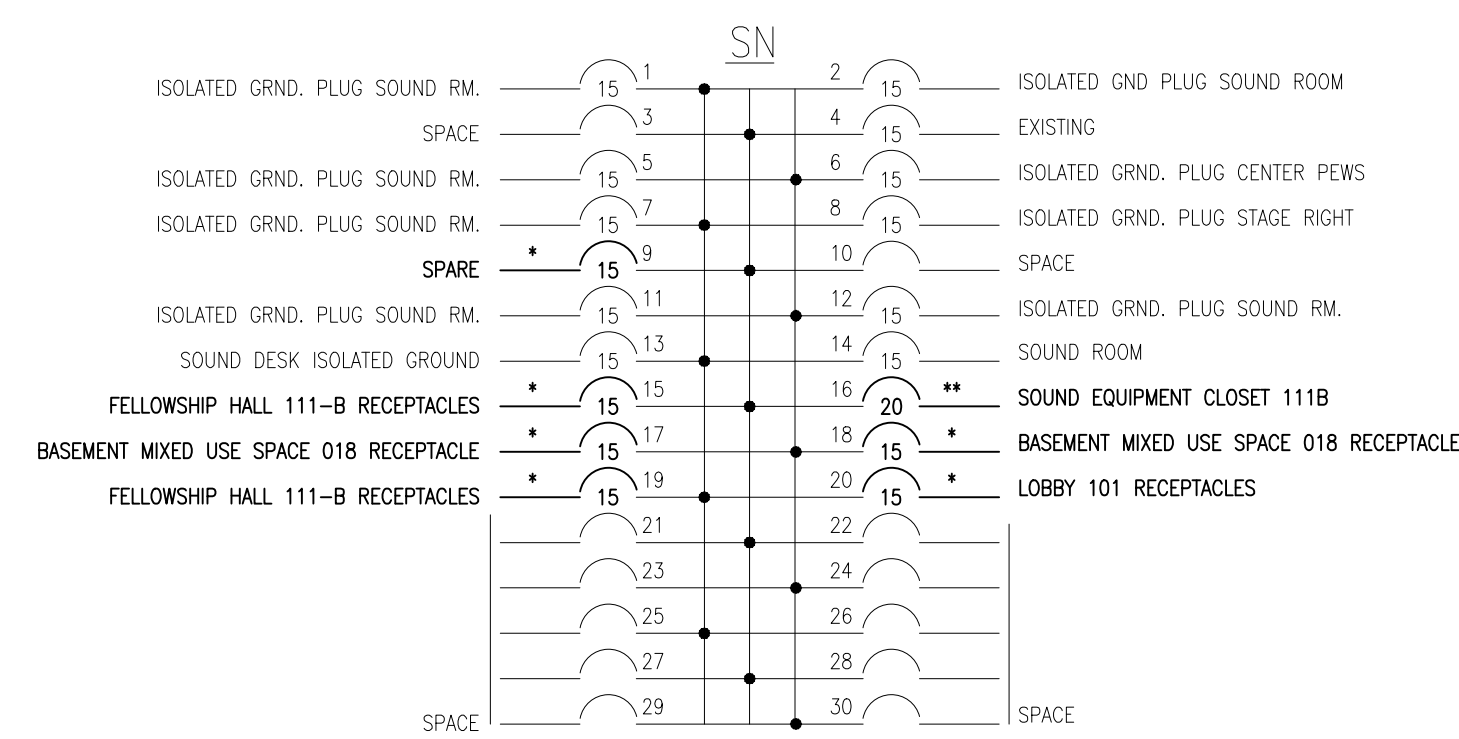
**ELECTRICAL ROOM PANEL #1
EXISTING PANEL EB**

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



**PRAYER ROOM
EXISTING PANEL P**

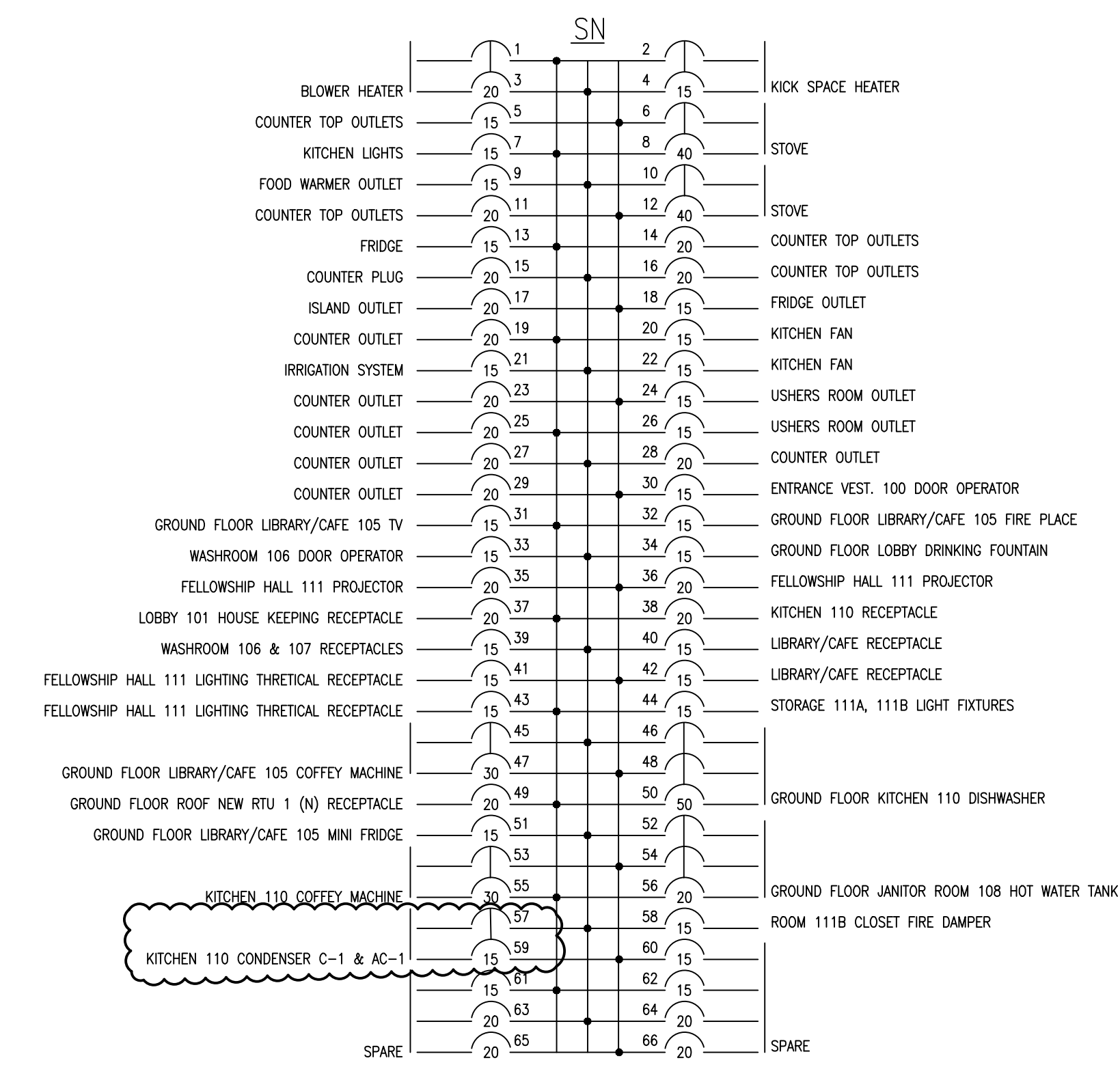
VOLTAGE	120/208V
PHASE	3Ø
WIRE	4W
RATING AMPS	225A
TRIM	FLUSH



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

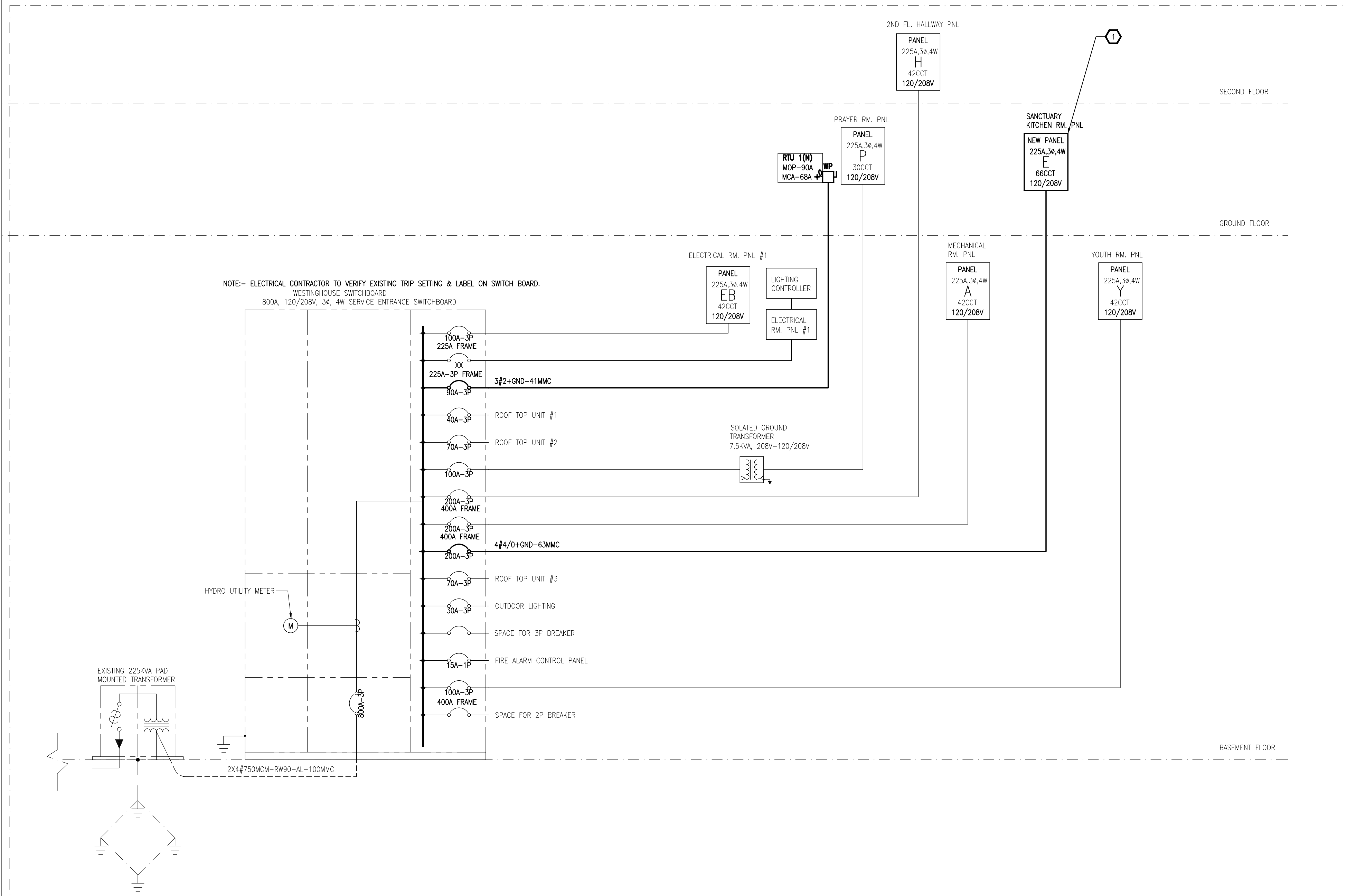
**SANCTUARY KITCHEN RM. PNL
NEW PANEL E**

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.

Client

DATE	REVISION	REF
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	--

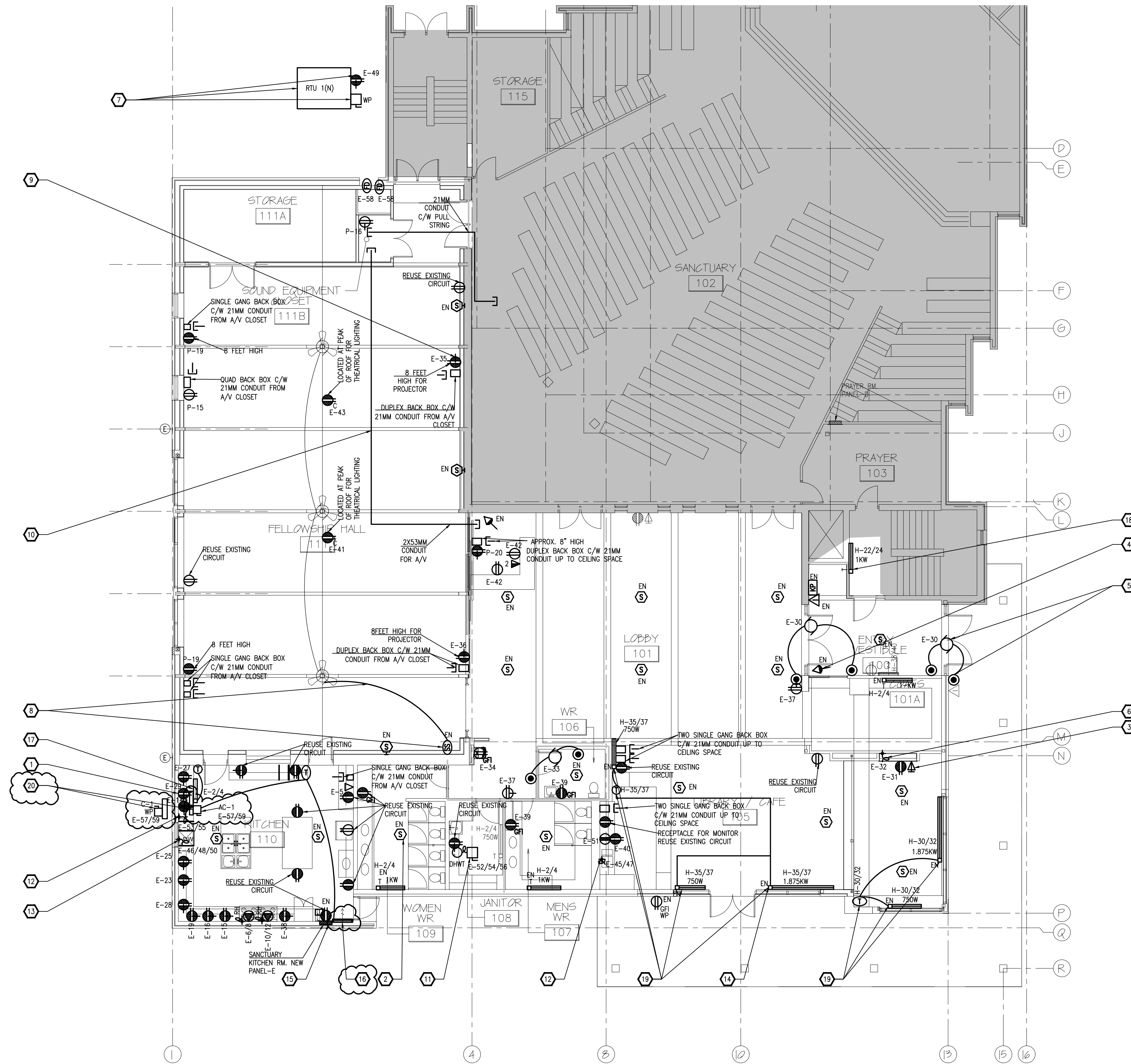
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Project/Projet	Nord du projet	Seal/Sceau
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Project/Projet
**ARLINGTON WOODS
FREE METHODIST CHURCH
RENOVATION**
225 McClellan Rd, Ottawa, ON K2H 8N5
Drawing title/Titre du dessin
**ELECTRICAL NEW WORK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

Scale 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	E4
Reviewed by Examiné par	D.VYAS	OF 10
Date Date	JANUARY 2021	Revision no: Acad file/Fichier:



GROUND FLOOR
ELECTRICAL POWER & SYSTEM NEW WORK LAYOUT
1
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-6AA, 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 2X 21MM CONDUIT FROM SOUND EQUIPMENT CLOSET 111B. COORDINATE EXACT MOUNTING HEIGHT WITH OWNERS PA CONTRACTOR.
10. PROVIDE TWO 5MM 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 FINAL BREAKER SIZE WITH EQUIPMENT SHOP DRAWING. COORDINATE EXACT LOCATION ON SITE WITH CLIENT PRIOR ROUGH-IN.
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 RB4101B9 ELECTRICAL HEATER RELAY & PILOT DUTY HEAT RELAY RELIUC1 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.

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2020-05-27	ISSUED FOR PERMIT	-
2020-05-08	ISSUED FOR REVIEW	-

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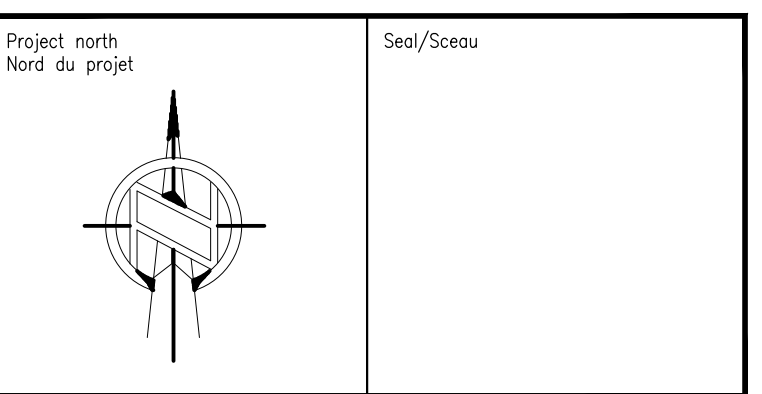
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Drawing title/Titre du dessin
**GROUND FLOOR
ELECTRICAL POWER &
SYSTEM
NEW WORK LAYOUT**

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:
E10
of 10