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ARCHITECTURAL ADDENDUM #1

APRIL 19, 2024

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ADDITIONAL DRAWINGS:

- 1. STRUCTURAL ENGINEERING DRAWINGS AS LISTED:
 - S-1 Foundation Plan
 - S-2 Roof Framing Plan
 - S-3 Sections
 - S-4 Section and Detail

2. MECHANICAL ENGINEERING DRAWINGS AS LISTED:

- M1.0 General Notes, Drawing List, Key Map, Site Map, & Legend
- M1.1 Mechanical Schedules & Details
- M2.1 Proposed Demolition HVAC Plan
- M2.2 Proposed HVAC Plan
- M2.3 Proposed HVAC Roof Plan
- P1.1 Proposed Demolition Plumbing Plan
- P1.2 Proposed Plumbing Plan

3. ELECTRICAL ENGINEERING DRAWINGS AS LISTED:

- E1.1 Electrical Notes & Key Plan
- E1.2 Legends, Light Schedule, Details, Panel Schedule & Coordination Table
- E2 Electrical Site Plan
- E3 Electrical & Lighting Demolition Plans
- E4 Electrical & Lighting Plans

NOTES OF CONCRETE CONSTRUCTION 1. Concrete work and detailing of reinforcing shall comply with CSA A23.3, latest edition.

- Column and Beam 50mm Slab and Wall Not Exposed to Weather - 25mm Slab and Wall Exposed Directly to Weather : 38mm for 15 M or Smaller Bar, 50mm for 20 M or larger Bar.
- opening or typical detail, whichever is larger. Provide 2 -15 m x 2000mm diagonal rebar at opening corner wherever opening is wider than 1200 mm.
- corner for a length of 36 x bar dia. for 400 MPa yield stress steel, unless otherwise noted.
- between keyed construction joints. Chases for slab and pockets for beam shall be provided.
- 6. Contractor shall verify dimensions and locations of slot, pipes, sleeves, embedment plates, inserts, etc., as required for other trades before concrete is poured.
- 8. Provide 100 mm P.V.C. water stop at all construction

- Call "SOLID BLOCK" on drawing.
- etc." shall be solid filled full floor height by concrete grout (3000 psi), on block width minimum.
- design and construction for buildings.
- Independent qualified inspection of masonry construction.
- (heavy-duty wire size 3/16" dia.) at 16" o.c. vertically, corrosion-resistant steel rods, or
- 1/2"x 10" with anchors 2-15m x 12"lg., unless heavier plate marked on drawing.
- slump concrete. (For location see plan)











GENERAL NOTES

1. <u>GENERAL</u>

- 1.1. ALL WORK SHALL BE PERFORMED IN A CLEAN AND WORKMANLIKE MANNER. CARE SHALL BE EXERCISED TO MINIMIZE ANY INCONVENIENCE OR DISTURBANCE TO OTHER AREAS OF THE BUILDING WHICH ARE TO REMAIN IN OPERATION. ISOLATE WORK AREAS BY MEANS OF TEMPORARY PARTITIONS AND/OR TARPS TO KEEP DUST AND DIRT WITHIN THE CONSTRUCTION AREA.
- 1.2. THE PLANS ARE INTENDED TO BE DIAGRAMMATIC AND ARE BASED ON ONE MANUFACTURER'S EQUIPMENT. THEY ARE NOT INTENDED TO SHOW EVERY ITEM IN ITS EXACT LOCATION, THE EXACT DIMENSIONS, OR ALL THE DETAILS OF THE EQUIPMENT. THE CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS OF THE EQUIPMENT PROPOSED TO ENSURE THAT THE EQUIPMENT WILL FIT IN THE AVAILABLE SPACE.
- 1.3. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO PROCEEDING WITH ANY WORK. WHERE DISCREPANCIES OCCUR BETWEEN THESE DOCUMENTS AND EXISTING CONDITIONS, THE DISCREPANCY SHALL BE REPORTED TO THE OWNER AND/OR ENGINEER FOR EXPEDITING AND RESOLVE.
- 1.4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFEKEEPING OF HIS OWN PROPERTY ON THE JOB SITE. OWNER ASSUMES NO RESPONSIBILITY FOR PROTECTION OF PROPERTIES AGAINST FIRE, THEFT AND ENVIRONMENTAL CONDITIONS.
- 1.5. PRIOR TO STARTING CONSTRUCTION, DETERMINE EXACT INVERT ELEVATION, SIZE, DEPTH AND LOCATION OF EXISTING UTILITIES WHERE CONNECTIONS ARE TO BE MADE OR INTERSECTIONS OCCUR. NOTIFY ARCHITECT OR ENGINEER OF ANY DISCREPANCY BETWEEN DRAWINGS AND ACTUAL FIELD CONDITIONS. WORK BACK TOWARD BUILDING FROM UTILITY CONNECTION FOR ALL PIPING SYSTEMS.
- 1.6. ALL APPLICABLE CODES, LAWS AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS, AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR WHO SHALL INFORM THE OWNER, PRIOR TO SUBMITTING A PROPOSAL, OF ANY WORK OR MATERIALS WHICH VIOLATE ANY OF THE ABOVE LAWS AND REGULATIONS. ANY WORK DONE BY THE CONTRACTOR CAUSING SUCH VIOLATIONS SHALL BE CORRECTED BY THE CONTRACTOR.
- 1.7. INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES WHICH INVOLVE EXTRA COST SHALL NOT BE MADE WITHOUT APPROVAL.
- 1.8. REMOVAL AND RELOCATION OF CERTAIN EXISTING WORK WILL BE NECESSARY FOR THE PERFORMANCE OF THE GENERAL WORK. ALL EXISTING CONDITIONS CANNOT BE COMPLETELY DETAILED ON THE DRAWINGS, THE CONTRACTOR SHALL SURVEY THE SITE AND INCLUDE ALL CHANGES IN MAKING UP THE WORK PROPOSAL.
- 1.9. SEAL ALL OPENINGS AROUND PIPES & DUCTS THROUGH PARTITIONS AND WALLS WITH APPROVED FIRESTOPPING MATERIAL MEETING ONTARIO BUILDING CODE, ASTM E814 AND NFPA-101, AS APPLICABLE.
- 1.10. MATERIALS AND WORKMANSHIP, UNLESS OTHERWISE NOTED, SHALL BE IN ACCORDANCE WITH BUILDING STANDARDS.
- 1.11. EQUIPMENT SUPPLIED BY CONTRACTOR THAT FALLS UNDER THE JURISDICTION OF ASHRAE 90.1-2010 SHALL MEET THE REQUIREMENTS OF THIS STANDARD IN ALL REGARDS.
- 1.12. THE WORK IN THE BUILDING SHALL BE DONE WHEN AND AS DIRECTED AND IN A MANNER SATISFACTORY TO THE OWNER.
- 1.13. CONTRACTOR TO SUBMIT A SET OF AS-BUILT DRAWINGS TO THE CONSULTANT FOR TRANSFER TO CAD FILE. INCLUDE FOR CONSULTANTS COST TO UPDATE DRAWING TO AS-BUILT & PLOT. CONTRACTOR TO CARRY \$500 FOR CONSULTANTS COST.
- 2. <u>SCOPE OF WORK</u>
- 2.1. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND LABOR TO SATISFY A COMPLETE WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED.
- 2.2. THE WORK UNDER CONTRACT INCLUDES ALL LABOR, MATERIALS, AND APPLIANCES NECESSARY FOR THE FURNISHING, INSTALLATION AND TESTING, COMPLETE AND READY FOR SAFE OPERATION OF THE SYSTEMS. WORK SHALL BE INSTALLED IN A NEAT, WORKMANLIKE MANNER. INCLUDE ALL COSTS FOR PERMITS, LICENSES AND CERTIFICATE FILING AND INSPECTIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
- 2.3. ALL EQUIPMENT AND MATERIALS SHALL BE AS SPECIFIED OR "APPROVED EQUAL" BY ENGINEER OR ARCHITECT.
- 2.4. CONTRACTOR MAY ELECT TO SUBMIT ALTERNATES IN PLACE OF SPECIFIED MECHANICAL EQUIPMENT. CONTRACTOR SHALL INCLUDE ALL SPECIFIED MAJOR EQUIPMENT IN THE BASE BID, AND SHALL SHOW LINE ITEM PRICE REDUCTIONS FOR ANY PROPOSED ALTERNATES. ALTERNATES FOR MINOR EQUIPMENT MAY BE SUBSTITUTED WITHOUT PRESENTING LINE ITEM PRICE REDUCTIONS. FINAL APPROVAL OF ALL ALTERNATES SUBJECT TO THE ENGINEER'S REVIEW.
- 2.5. CONTRACTOR IS RESPONSIBLE FOR ALL COSTS OF ALL TRADES ASSOCIATED WITH ANY SUBSTITUTION OF AN ALTERNATE. INCLUDING CHANGES IN DUCT OR PIPING ARRANGEMENT OR SIZE, BREAKER SIZE, REQUIRED ANCILLARY COMPONENTS, ADDITIONAL SUPPORTS, WIRING, ETC., TO ACHIEVE A FULLY COMPLIANT AND OPERATIONAL SYSTEM TO MATCH THE BASE BID SPECIFICATION.
- 3. PERMITS
- 3.4. THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND PAY ANY AND ALL FEES.
- SHOP DRAWINGS
- 4.1. SUBMIT EQUIPMENT AND FIXTURE SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO PURCHASE, INSTALLATION OR FABRICATION. THE CONTRACTOR SHALL NOT PROCEED UNTIL APPROVED SHOP DRAWINGS ARE RETURNED FROM THE ENGINEER.
- 4.2. DO NOT SUBSTITUTE ANY HARDWARE OR FIXTURES WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
- 4.3. CLEARLY INDICATE ON THE SHOP DRAWINGS THE NAME OF THE PROJECT AS STATED ON THE MECHANICAL DRAWINGS.
- 4.4. CLEARLY INDICATE ON THE SHOP DRAWINGS. THE ITEM OR TYPE REFERENCE NUMBER FROM THE MECHANICAL DRAWING SCHEDULES. WHERE NO SCHEDULE ITEM OR TYPE IS PRESENT, INDICATE DRAWING NUMBER, REVISION AND EQUIPMENT TAG.
- 5. COMMISSIONING
- 5.1. THE MECHANICAL CONTRACTOR SHALL TEST, ADJUST, STARTUP, AND PLACE INTO PROPER OPERATION ALL EQUIPMENT AND SYSTEMS INSTALLED UNDER THIS CONTRACT. PRIOR TO THE STARTUP OF ANY EQUIPMENT OR SYSTEM, THE CONTRACTOR SHALL MAKE CERTAIN THAT ALL EQUIPMENT IS CLEAN AND FREE OF FOREIGN MATTER, ALL BEARINGS ARE LUBRICATED AND ALL PRECAUTIONS HAVE BEEN FOLLOWED IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S INSTRUCTIONS.
- 6. GUARANTEE
- 6.1. FURNISH A WRITTEN GUARANTEE TO REPLACE OR REPAIR PROMPTLY AND ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED FOR ANY WORKMANSHIP AND EQUIPMENT IN WHICH DEFECTS DEVELOP WITHIN ONE YEAR FROM THE DATE OF ACTUAL USE OF EQUIPMENT OR OCCUPANCY OF SPACES BY OWNER, WHICHEVER DATE IS EARLIER. THIS WORK SHALL BE DONE AS DIRECTED BY THE OWNER. WHERE DEFECTS OCCUR, ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED IN REPAIRING AND REPLACING WORK OF THE OTHER TRADES AFFECTED BY DEFECTS.

HVAC NOTES

- 1. <u>GENERAL</u>
- 1.1. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE ONTARIO BUILDING CODE, ONTARIO ENERGY EFFICIENCY ACT, THE ONTARIO CONSTRUCTION SAFETY ACT AND REGULATIONS AND THE MINISTRY OF LABOUR GUIDELINES.
- 1.2. CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AT THE SITE BEFORE PROCEEDING WITH ANY WORK.
- 1.3. INSTALLATION IN ACCORDANCE WITH THE LATEST EDITION OF THE ONTARIO BUILDING CODE AND NFPA 90A "STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATING SYSTEMS."
- 1.4. ALL SHEET METAL WORK MUST BE PERFORMED BY LICENSED. JOURNEYMAN SHEET METAL WORKERS POSSESSING A VALID CERTIFICATE 1. GENERAL OF QUALIFICATION (308A) FROM THE MINISTRY OF TRAINING, COLLEGES AND UNIVERSITIES IN THE PROVINCE OF ONTARIO.
- MATERIALS AND INSTALLATION
- 2.1. LOCATION OF DUCTWORK AND EQUIPMENT.
 - 2.1.1. INSTALL AS REQUIRED FOR PROPER INSTALLATION IN AVAILABLE SPACE AVOIDING INTERFERENCE WITH ARCHITECTURAL AND STRUCTURAL MEMBERS AND WORK OF OTHER TRADES.
- 2.1.2. PRESERVE HEADROOM AND KEEP OPENINGS AND PASSAGE WAYS CLEAR.
- 2.1.3. INSTALL DUCTS AS SHOWN IN A NEAT MANNER, SYMMETRICAL WITH BUILDING LINES, LIGHTS, ACOUSTICAL TILE PATTERN, ETC. 1.4.
- 2.1.4. DRAWINGS ARE DIAGRAMMATIC AND APPROXIMATE AND ARE SUBJECT TO REARRANGEMENT FOR PROPER INSTALLATION. CERTAIN RUNS OF DUCTWORK AND PIPING SHOWN DISTORTED TO AVOID CONFUSION.
- 2.2. ACCESS TO DUCTS AND CONCEALED EQUIPMENT. IT SHALL BE THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR TO PROVIDE GENERAL CONTRACTOR WITH THE DESIRED LOCATION OF EACH ACCESS DOOR OR PANEL REQUIRED IN CEILING OR WALLS FOR ACCESS TO ALL CONCEALED DAMPERS, CONTROLLERS, ETC.
- 2.3. CONTRACTOR IS RESPONSIBLE FOR CLEANING OF PREMISES, REMOVAL OF SCRAPS AND INSTALLATION RELATED DEBRIS FROM AREA. LEAVE ENTIRE INSTALLATION IN A NEAT, CLEAN AND USABLE CONDITION.
- 2.4. CONTRACTOR IS RESPONSIBLE FOR HOISTING AND SETTING IN PLACE OF ALL FURNISHED HEATING, AIR CONDITIONING, EXHAUST AND

MAKE-UP AIR EQUIPMENT, UNLESS OTHERWISE SPECIFIED.

- 2.5. EQUIPMENT. TYPE AND SIZE AS SHOWN AND DESCRIBED ON THE DRAWINGS. PERFORMANCE IN CONFORM ENERGY EFFICIENCY ACT.
- 2.6. SHEET METAL WORK
 - 2.6.1. GAUGE AND CONSTRUCTION: GALVANIZED SHEET METAL IN ACCORDANCE WITH RECOMMENDA LOW VELOCITY DUCTWORK, LATEST EDITION, AND IN COMPLIANCE WITH ALL NATIONAL AND LO REQUIREMENTS.
 - 2.6.2. ALL HORIZONTAL DUCTS SHALL BE SUPPORTED ON AT LEAST 6'-9" CENTERS.
 - 2.6.3. ALL ROUND DUCTS SHALL BE SUPPORTED WITH 1" 18 GAUGE GALVANIZED STEEL STRAP HANGI

2.7. FLEXIBLE DUCT:

- 2.7.1. MATERIAL: PRE-INSULATED U.L. LISTED CLASS 1 FLEXIBLE FIBERGLASS AIR DUCT, ENCASED IN A JACKET, CONSTRUCTED OF REINFORCED METALLIZED POLYESTER. DUCTS TO MEET REQUIREN DUCTS. ALL FLEX DUCT TO HAVE SAMPSON BAND REINFORCING.
- 2.7.2. MANUFACTURER: DEFLECT-O DUCT OR APPROVED EQUAL.
- 2.7.3. INSTALLATION: INSTALL IN FULLY EXTENDED POSITION. SUPPORT FLEX DUCT WITH 1 1/2" WIDE S DUCT RUNS SHALL NOT EXCEED 4' IN LENGTH.
- 2.8. DUCT SEALING (1" WC PRESSURE CLASS): ALL DUCT JOINTS, SEAMS, FITTINGS, ETC. SHALL BE SEALED TO WATER AND AIR TIGHTNESS WITH DUCT SEALANT CARLISLE DUCT-SEAL 321 OR EQUAL, APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- 2.9. MANUAL VOLUME (BALANCING) DAMPERS:
 - 2.9.1. DAMPERS WITH EXTENDED HANDLES, LOCKING AND INDICATING QUADRANTS TO BE INSTALLED AS SHOWN ON DRAWINGS IN ADDITION TO ANY VOLUME CONTROLS AT OUTLETS.
 - 2.9.2. AFTER FINAL ADJUSTMENT OF SYSTEM, LOCK QUADRANTS AND MARK CLEARLY SHOWING DAMPER POSITION, OPEN AND SHUT 4.6. VENT PIPING IS NOT SHOWN ON DRAWING. SUPPLY AND INSTALL AS PER THE REQUIREMENTS OF THE ONTARIO BUILDING CODE POSITION.
 - 2.9.3. DAMPERS IN ROUND DUCTS SHALL BE OF THE SINGLE BLADE TYPE.
 - 2.9.4. DAMPERS IN RECTANGULAR DUCTS:
 - 2.9.4.1. DUCTS 11" IN HEIGHT OR LESS SHALL BE OF THE SINGLE BLADE TYPE. DUCTS 12" IN HEIGHT OR HIGHER SHALL BE OF THE OPPOSED BLADE TYPE. 2.9.4.2.

2.10. INSULATION

- 2.10.1. DUCT LINING: FIRST 10' OF SUPPLY AND RETURN DUCT OF ALL RTU'S TO BE ACOUSTICALLY LINED WITH LINING MEETING REQUIREMENTS OF N.F.P.A. 90A AND INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS. DUCT DIMENSIONS SHOWN ON DRAWINGS ALLOW FOR THICKNESS OF ACOUSTIC INSULATION.
- 2.10.2. DUCT INSULATION DUCT IN CONCEALED SPACES: ALL SUPPLY AIR, EXHAUST AIR AND FRESH AIR DUCTWORK INSTALLED IN CONCEALED SPACES SHALL BE WRAPPED WITH ULC APPROVED 1 1/2" THICK 3/4 LB DENSITY FIBERGLASS FOIL FACED BLANKET WITH REINFORCED FIBERGLASS SCRIM. INSULATION SHALL BE ADHERED WITH 3" TAPE ON ALL JOINTS . DUCTS OVER 36 " SHALL BE PINED ON BOTTOM WITH 1" 12 GAUGE PINS ALL CLIPS SHALL BE COVERED WITH FOIL FACED TAPE. SAGGING OF INSULATION SHALL NOT BE ALLOWED.
- 2.10.3. DUCT INSULATION EXPOSED DUCT: SUPPLY AIR, FRESH AIR AND EXHAUST AIR DUCT EXPOSED TO VIEW SHALL SHALL BE WRAPPED WITH ULC APPROVED DUCT INSULATION 1" THICK 3.5 LB DENSITY RIGID FIBERGLASS INSULATION WITH FOIL FACE REINFORCED SCRIM JACKETING. ALL EXPOSED DUCT WORK SHALL HAVE A LAYER OF 60Z UL LABELED CANVAS EMBEDDED IN A COATING OF 120-18 LAGGING ADHESIVE WITH A FINAL COAT OF LAGGING ADHESIVE TO BE LEFT READY FOR PAINTING. ALL RIGID INSULATION TO BE ADHERED WITH 12 GAUGE PINS AND CLIPS TO DUCTWORK . CLIPS TO BE COVERED WITH FOIL TAPE BEFORE CANVAS IS APPLIED.
- 2.10.4. DO NOT INSULATE THE FOLLOWING:
- 2.10.4.1. RETURN AIR DUCTWORK
 - 2.10.4.2. DUCT WORK WITH ACOUSTIC LINING, BUT OVERLAP THE LINED DUCT BY 1 FOOT WITH THERMAL INSULATION. 2.10.4.3. SUPPLY AIR DUCTWORK IN RETURN AIR PLENUM OR EXPOSED IN THE ROOM IT SERVES
- 2.11. BALANCING
 - 2.11.1. BALANCE, ADJUST AND TEST ALL AIR MOVING EQUIPMENT, AIR DISTRIBUTION, HEATING SYSTEMS, EXHAUST SYSTEMS, EXHAUST AND MAKE-UP SYSTEMS AS SPECIFIED AND AS INDICATED ON DRAWINGS TO N.E.B.B. STANDARD. BALANCING TO BE PERFORMED BY A THIRD PARTY. ALL COSTS FOR THE BALANCING SUB-CONTRACTOR TO BE CARRIED BY THE HVAC CONTRACTOR.
 - 2.11.2. BALANCING AND TESTING SHALL NOT BEGIN UNTIL ALL SYSTEMS ARE COMPLETED AND IN FULL WORKING ORDER.
 - 2.11.3. CHANGES IN FILTERS, DRIVES, AND DAMPERS OR THE ADDITION OF DAMPERS, CONTROL DEVICES OR GAUGES REQUIRED TO CORRECT BALANCE AS REQUIRED SHALL BE MADE AT NO ADDITIONAL COST TO OWNER.
 - 2.11.4. ALL EQUIPMENT AND SYSTEMS SHALL BE RUN THROUGH THEIR CYCLE TO CHECK FOR CORRECT WIRING AND SEQUENCING.
 - 2.11.5. ALL INSTRUMENTS FORMS AND PROCEDURES SHALL MEET THE REQUIREMENTS SET FORTH BY THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (N.E.B.B.).
 - 2.11.6. A COPY OF THE BALANCING REPORT SHALL BE SENT TO THE ENGINEER FOR APPROVAL.

2.12. INSTALLATION

- 2.12.1. EXHAUST FANS SHALL BE AT LEAST 10'-0" FROM ANY FRESH AIR INTAKE AS PER ONTARIO BUILDING CODE.
- 2.12.2. H.V.A.C. UNITS SHALL BE AT LEAST 6'-0" FROM ANY PLUMBING VENT AS PER CODE OR VENT END SHALL BE AT LEAST 3'-0" HIGHER THAN THE AIR INTAKE.
- 2.12.3. INSTALLATION TO BE IN ACCORDANCE WITH NFPA 90A "STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATING SYSTEMS".
- 2.12.4. LOCATE DIFFUSERS, GRILLES & REGISTERS TO SUIT LIGHTING AND CEILING PLAN.

2.13. VIBRATION ISOLATION

- 2.13.1. PROVIDE FLEXIBLE CONNECTIONS BETWEEN ALL DUCTWORK AND VIBRATING EQUIPMENT, INCLUDING FANS.
- 2.13.2. VIBRATION ISOLATION HANGERS AND SUPPORTS SHALL BE USED TO INSTALL ALL VIBRATING EQUIPMENT, INCLUDING FANS.
- CONTROLS
- CONTRACTOR TO SUPPLY & INSTALL CONTROL WIRING AND CONDUIT FOR EQUIPMENT WHERE REQUIRED. CONTROL WIRING SHALL BE SIZED TO HAVE NO MORE THAN 10 PERCENT VOLTAGE DROP. SUPPLY AND INSTALL FT-6 RATED WIRING WHEN THE SPACE IS OPEN AND ACCESSIBLE (IE, CEILING PLENUM WITH ACT) OTHERWISE PROVIDE EMT FOR WRING THAT WILL BE EXPOSED AND/OR INACCESSIBLE.
- 3.2. CONTRACTOR TO INSTALL COMPLETE ZONED HVAC SYSTEMS INCLUDING ALL 24 V WIRING, CONTROLS, INTERLOCKS AND THERMOSTATS TO EFFECT A COMPLETE OPERATIONAL SYSTEM.

PIPING & PLUMBING NOTES

- 1.1. THE ENTIRE PLUMBING SYSTEM SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE ONTARIO BUILDING CODE, NATIONAL PLUMBING CODE, LOCAL BYLAWS AND THESE DRAWINGS. ANY DISCREPANCIES WILL BE RESOLVED WITH ENGINEER PRIOR TO PROCEEDING.
- 1.2. THE EXISTING PIPING INDICATED ON THESE PLANS SHALL BE VERIFIED IN THE FIELD FOR EXACT LOCATIONS, QUANTITY, AND PIPE SIZES.
- 1.3. THE PIPING INDICATED ON THESE PLANS ARE DIAGRAMMATIC. ALL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION. CONTRACTOR SHALL COORDINATE ROUTING OF ALL PIPING WITH EXISTING CONDITIONS AND SHALL PROVIDE ANY NECESSARY OFFSETS, REROUTING, TEES, ELBOWS, ETC. REQUIRED FOR A COMPLETE AND COORDINATED INSTALLATION.
- CONTRACTOR SHALL COORDINATE AND PROVIDE ALL NECESSARY PIPING & PLUMBING FITTINGS, PIPING, MISCELLANEOUS ITEMS REQUIRED FOR A COMPLETE INSTALLATION OF ALL PLUMBING RELATED ITEMS.
- 1.5. ALL PIPES, VALVES, PIPE FITTINGS AND PLUMBING FIXTURES ANTICIPATED TO CONVEY OR DISPENSE WATER FOR HUMAN CONSUMPTION THROUGH DRINKING AND COOKING SHALL HAVE NO MORE THAN A WEIGHTED AVERAGE LEAD CONTENT OF 0.25% ON WETTED SURFACES.
- PIPING AND EQUIPMENT SUPPORT
- ALL PLUMBING & PIPING SYSTEMS SHALL BE SUPPORTED AS REQUIRED BY THE CODE REQUIREMENTS AND PER MANUFACTURER'S 2.1 RECOMMENDATIONS.
- SUPPORT NEW PIPING FROM BUILDING STRUCTURE AND OR FRAMING IN AN APPROVED MANNER. WHERE OVERHEAD EQUIPMENT EXISTS, 2.2. FURNISH ADDITIONAL FRAMING.

MANCE WITH THE ONTARIO	2.3.	BELOW GRADE: EARTH SHALL BE EXCAVATED TO A MINIMUM DEPTH WITH AN EVEN SURFACE TO INSURE SOLID BEARING OF PIPE FOR ITS ENTIRE LENGTH.	DRAWING	LIST
	2.4.	INTERIOR: THE PIPE SHALL BE INSTALLED (UNLESS OTHERWISE SPECIFIED) A MINIMUM OF 4 INCHES BELOW THE BOTTOM OF THE SLAB AND SHALL NOT BE IN ANY DIRECT CONTACT WITH THE CONCRETE AT ANY POINT.	M1.1	MECHANICAL NOTES,
ATIONS OF S.M.A.C.N.A. FOR	3.	DOMESTIC COLD WATER AND HOT WATER PIPING		LEGEND
CAL CODES AND	3.1.	DOMESTIC HOT AND COLD PIPING - HARD DRAWN TYPE "L" COPPER, (TYPE "K" BELOW GRADE), WITH CAST BRONZE OR WROUGHT	M1.2	MECHANICAL SCHED
		COPPER FITTINGS, SOLDER JOINT FITTINGS WITH THIRD PARTY VERIFICATION.	M2.1	PROPOSED DEMOLITI
ERS AT 4'-0" CENTERS.	3.2.	ALTERNATIVELY, THE CONTRACTOR MAY ELECT TO USE PEX TUBING, SUBJECT TO APPROVAL OF THE ENGINEER. HOWEVER, THE USE OF PEX TUBING WILL REQUIRE THE CONTRACTOR TO ENSURE THAT PIPE SIZES SHOWN ON DRAWINGS WILL BE INCREASED BY ONE PIPE SIZE.	M2.2	PROPOSED HVAC PL/
	3.3.	VALVES - COLD AND HOT WATER, BALL VALVES, 2 INCHES AND SMALLER, 150 PSI SOLDER JOINT, FULLPORT BALL VALVES, CRANE 9322.	M2.3	PROPOSED ROOF PL/
MENTS OF N.F.P.A. 90A FOR AIR	4.	SANITARY DRAINAGE, STORM DRAINAGE AND VENT PIPING	P1.1	PROPOSED DEMOLITI
	4.1.	ABS-DWV PLASTIC PIPE AND FITTINGS CERTIFIED TO CSA STANDARD B181-1 BELOW GRADE, IPEX SYSTEM 15 DWV PVC PIPE ABOVE GRADE. USE IPEX XFR IN RETURN AIR PLENUMS. PVC SHALL NOT BE USED IN VERTICAL SERVICE SPACE. SANITARY, STORM AND VENT PIPING IN VERTICAL CHASE SHALL BE CAST IRON OR COPPER PIPE INSTALLED AS PER O.B.C. EXCEPT WHERE COPPER PIPE IS USED	P1.2	PROPOSED PLUMBIN
STEEL STRAPS AT 3'-0" MAX.		JOINTS TO BE MADE WITH 95-5 SOLDER.		
SEAL CLASS A. TO ENSURE	4.2.	DRAINAGE PIPING SHALL BE RUN AS STRAIGHT AS POSSIBLE AND SHALL HAVE LONG TURN FITTINGS.		
RDANCE WITH	4.3.	CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER FLASHING OF THE VENT PIPING RUN THROUGH THE ROOF.		

PROVIDE CLEANOUTS AT THE BASE OF ALL SANITARY DRAINAGE AND RAIN WATER CONDUCTORS. CLEANOUTS SHALL EXTEND THROUGH

FINAL LOCATIONS OF ALL VENT THRU ROOF PENETRATIONS (VTR'S) SHALL BE COORDINATED WITH ALL TRADES. ALL VTR'S SHALL BE A

ALL PIPES SHALL BE INSULATED WITH JOHNS MANVILLE MICRO-LOK FIBERGLASS PIPE INSULATION, 1" THICKNESS C/W ASJ. HOT AND

TEMPERED WATER PIPING 1¹/₂" AND LARGER TO HAVE 1¹/₂" THICK INSULATION. FLAME SPREAD RATING AND SMOKE DEVELOPED

CLASSIFICATION IN ACCORDANCE WITH THE ONTARIO BUILDING CODE. PVC JACKET IN SERVICE AREAS.

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6. <u>TESTING</u>

5. INSULATION

4.4.

4.5

6.1. TEST COLD & HOT WATER SYSTEMS IN ACCORDANCE WITH THE ONTARIO BUILDING CODE

AND TERMINATE FLUSH WITH THE FINISHED WALL OR FLOOR.

MINIMUM OF 10'-0" FROM ALL FRESH AIR INTAKE OPENINGS.

3. DRAWING LIST, KEY MAP, SITE MAP &

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____-

- ULE & DETAILS
- TION HVAC PLAN

- TION PLUMBING PLAN
- ig plan

SYMBOL I	LEGEND
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- SAN — —	SANITARY LINE
. <u> </u>	DOMESTIC COLD WATER LINE
	DOMESTIC HOT WATER LINE
	DOMESTIC HOT WATER RETURN LINE
- CD <u> </u>	CONDENSATE DRAIN
- RLL	REFRIGERANT LQUID LINE
— RGL —— ——	REFRIGERANT GAS LINE
ERV	ENERGY RECOVERY VENTILATOR
HP	HEAT PUMP
AC	INDOOR AC UNIT
BBH	BASEBOARD HEATER
	SUPPLY AIR DUCT UP
\times	SUPPLY AIR DUCT DOWN
	SUPPLY/RETURN AIR GRILLE
	RETURN/EXHAUST AIR DUCT UP
	RETURN/EXHAUST AIR DUCT DOWN
Ū	THERMOSTAT
*	BALANCE DAMPER
12"x6" 200	— DIFFUSER / GRILLE SIZE — DIFFUSER TYPE — AIR QUANTITY (CFM)
exx	PREFIX "e" DENOTES EXISTING (LINE TYPES WILL APPEAR THINNER)



KEY MAP SCALE: NTS

— AREA OF WORK.





SITE MAP SCALE: NTS

	PROFESSION PROFESSION T. A. KESZTHELYI FI D. 04/15/2024 240305 TROMINCE OF ONTARIO
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ł	CLIENT:
	NIAGARA CATHOLIC DISTRICT SCHOOL BOARD 427 RICE ROAD WELLAND, ONTARIO L3C 7C1 PROJECT: ST. THERESE CATHOLIC
B Haiy-St	ELEMENTARY SCHOOL 530 KILLALY ST. EAST PORT COLBORNE, ONTARIO L3K 1P5 SHEET TITLE: MECHANICAL NOTES, DRAWING LIST, KEY MAP, SITE MAP &
	LEGEND JOB NUMBER: 240305 DATE: MARCH 12, 2024 DRAWN BY: JDP DESIGNED BY: JDP
	CHECKED BY: TK
	SCALE: AS SHOWN

							El	NERG	Y RECO	OVER	YENT	LATC	OR SCHEDULE
T 10		NODEL			20)	ELEC	TRICAL		DIMENSIONS	WxHxD	WEIGHT		D.5.
TAG	MANUFACTURER	MODEL	AIRFLOW (CFW)	ESP (IN W	V	OLTAGE	MCA N	MOCP	(IN)		(LBS)		KEN
ERV-1	LIFE BREATH	METRO 120ERV	119	0.5	1	20/1/60	1.4	15	20 3/4" x 9 3/4"	x 19 3/8"	34	ENERGY WASHAE	RECOVERY VENTILATOR c/w 20 GAUGE PREPAINTED GALVANIZED STEEL C/ SLE MERV-13 AIR FILTERS & FAN DEFROST. CONTRACTOR TO PROVIDE TIME
				NOM	COOLING	HEATING	DU	ICTLE	SS AIR				NIT SCHEDULE
TAG	MANUFACTURER	LOCATION	MODEL	TONS	CAPACITY (MBH)	CAPACITY (MBH)	VOLTAGE	MCA	MOCP	(LBS)	LxWxH	(IN)	
AC-1		-	LMN079HVT	0.5	0.6	8.1	208-230/1/60	0.4	15	18.3	32 15"x7 7	5"x12 ¹ 8"	- INDOOR UNIT WALL MOUNT c/w CROSS FLOW FAN, BRUSHLESS DIGITALL SECONDARY FILTER, R410A REFRIGERANT TYPE, 4-WAY AUTO SWING, 24 COIL & SLEEP MOTE CONDENSATE SENSOR CONNECTION. PROVIDE LG P
AC-2		HEALTH ROOM 102	LMN079HVT	0.5	0.6	9.1	208-230/1/60	0.4	15	18.3	32 <u>15</u> "x7 7	₅ "x12 <u>1</u> "	- INDOOR UNIT WALL MOUNT c/w CROSS FLOW FAN, BRUSHLESS DIGITALL SECONDARY FILTER, R410A REFRIGERANT TYPE, 4-WAY AUTO SWING, 24 COIL & SLEEP MOTE CONDENSATE SENSOR CONNECTION. PROVIDE LG P
AC-3	LG	PRINCIPAL'S OFFICE 101A	LMN079HVT	0.5	0.6	10.1	208-230/1/60	0.4	15	18.3	32 <u>15</u> "x7 <u>7</u>	5"x12 ¹ 8"	- INDOOR UNIT WALL MOUNT c/w CROSS FLOW FAN, BRUSHLESS DIGITALL SECONDARY FILTER, R410A REFRIGERANT TYPE, 4-WAY AUTO SWING, 24 COIL & SLEEP MOTE CONDENSATE SENSOR CONNECTION. PROVIDE LG P
AC-4		RECEPTION 101	LSN120HSV5	1	12	13.6	208-230/1/60	0.4	15	18.3	32 15"x7 7	5"x12 ¹ 8"	- INDOOR UNIT WALL MOUNT c/w CROSS FLOW FAN, BRUSHLESS DIGITALL SECONDARY FILTER, R410A REFRIGERANT TYPE, 4-WAY AUTO SWING, 24 COIL & SLEEP MOTE CONDENSATE SENSOR CONNECTION. PROVIDE LG P
HP-1		ROOF	LMU303HV	2.5	30	32	208-230/1/60	18.4	25	138.9	37 <u>13</u> "x15 ½	"x32 ²⁷ "	- OUTDOOR HEAT PUMP UNIT c/w TWIN ROTARY TYPE COMPRESSOR, PRC OPERATION, AUTO RESTART, INVERTER (VARIABLE SPEED COMPRESSOR AMBIENT COOLING, PROVIDE LOW AMBIENT WIND BAFFI F KIT & STAND.

AIR DISTRIBUTION SCHEDULE							
TAG	MANUFACTURER	MODEL	DESCRIPTION				
А	PRICE	510 / (UNIT SIZE) / (COLOUR)	LOUVERED SUPPLY AIR GRILLE c/w STEEL CONSTRUCTION, ³ / ₄ BLADE SPACING, 45° DOUBLE DEFLECTION & SUITABLE FOR DUCT MOUNTING. COLOUR SELECTION BY ARCHITECT.				
В	PRICE	510Z / (UNIT SIZE) / (COLOUR)	LOUVERED RETURN AIR GRILLE c/w STEEL CONSTRUCTION, ³ / ₄ BLADE SPACING, 0° DOUBLE DEFLECTION & SUITABLE FOR DUCT MOUNTING. COLOUR SELECTION BY ARCHITECT.				

								ME	CHANIC	AL / ELEC	TRI	CA	LC	00	R)IN/	ATION SCHEE)UL	E		
	DEVICE DETAILS		ELECTRICAL CHARACTERISTICS							F/A SHUTDOWN (BY DIV. 16.)	F/A SHUTDOWN (BY DIV. 16.) CONTROL (THIS COLUMN REFERS TO INTERLOCKING ONLY. NOT THE EQUIPMENT ITSELF)										
TAG	DESCRIPTION	LOCATION	HORSEPOWER	KW	FULL LOAD AMPS	MINIMUM CIRCUIT AMPS	VOLTAGE	PHASE	ISOLATING DEVICE	EQUIPMENT TO SHUTDOWN	THERMOSTAT	R/A THERMOSTAT	BMS	SWITCH	SENSOR	TIMER	INTERLOCKED WITH	CONTROL INTERLOCKED BY	CONTROL SUPPLIED BY	CONTROL INSTALLED BY	LEGEND: E = ELECTRICAL CONTRAC M = MECHANICAL CONTRA O = OTHER
ERV-1	ENERGY RECOVERY VENTILATOR	CORRIDOR (1.02)					120	1	PANEL A							х		М	M	М	LOW VOLTAGE CONNECTION
AC-1	INDOOR AC UNIT				0.40		208	1	PANEL A		Х						HP-1	М	М	М	LOW VOLTAGE CONNECTION ON/OFF OPERATION.
AC-2	INDOOR AC UNIT	HEALTH ROOM (102)			0.40		208	1	PANEL A		х						HP-1	М	М	М	LOW VOLTAGE CONNECTION
AC-3	INDOOR AC UNIT	PRINCIPAL'S OFFICE (101A)			0.40		208	1	PANEL A		х						HP-1	М	М	М	LOW VOLTAGE CONNECTION
AC-4	INDOOR AC UNIT	RECEPTION (101)			0.40		208	1	PANEL A		х						HP-1	М	М	М	LOW VOLTAGE CONNECTION
HP-1	HEAT PUMP	ROOF (SEE PLAN)				18.4	208	1	PANEL A								AC-1, AC-2, AC-3 & AC-4	М	М	М	LOW VOLTAGE CONNECTION

MARKS

CASE, INDEPENDENT CENTRIFUGAL BLOWER w/ MULTIPLE FAN SPEED OPERATION,

REMARKS

LLY CONTROLLED DIRECT DRIVE MOTOR, WASHABLE PRE-FILTER, 3M MICRO DUCT 24 OUR ON/OFF TIMER, AUTO OPERATION, AUTO RESTART, SELF CLEANING INDOOR PREMTB100 STANDARD III WIRED REMOTE CONTROLLER.

LLY CONTROLLED DIRECT DRIVE MOTOR, WASHABLE PRE-FILTER, 3M MICRO DUCT 24 OUR ON/OFF TIMER, AUTO OPERATION, AUTO RESTART, SELF CLEANING INDOOR PREMTB100 STANDARD III WIRED REMOTE CONTROLLER.

LLY CONTROLLED DIRECT DRIVE MOTOR, WASHABLE PRE-FILTER, 3M MICRO DUCT 4 OUR ON/OFF TIMER, AUTO OPERATION, AUTO RESTART, SELF CLEANING INDOOR PREMTB100 STANDARD III WIRED REMOTE CONTROLLER.

LLY CONTROLLED DIRECT DRIVE MOTOR, WASHABLE PRE-FILTER, 3M MICRO DUCT 24 OUR ON/OFF TIMER, AUTO OPERATION, AUTO RESTART, SELF CLEANING INDOOR PREMTB100 STANDARD III WIRED REMOTE CONTROLLER.

ROPELLER FAN, BRUSHLESS DIGITALLY CONTROLLED DIRECT DRIVE MOTOR, AUTO OR), DEFROST/DEICING, RESTART DELAY, SELF DIAGNOSIS, SOFT START & LOW



NOTES

CTOR ACTOR

IONS BY DIV. 23. HIGH VOLTAGE CONNECTIONS BY DIV. 26. IONS BY DIV. 23. HIGH VOLTAGE CONNECTIONS BY DIV. 26. INTERLOCKED w/ TIMER FOR

IONS BY DIV. 23. HIGH VOLTAGE CONNECTIONS BY DIV. 26.

TONS BY DIV. 23. HIGH VOLTAGE CONNECTIONS BY DIV. 26.

IONS BY DIV. 23. HIGH VOLTAGE CONNECTIONS BY DIV. 26.

IONS BY DIV. 23. HIGH VOLTAGE CONNECTIONS BY DIV. 26.

GENERAL DEMOLITION NOTES:

- 1. DEMOLITION SHALL BE CARRIED OUT SO THAT THE WORK WILL NOT INTERFERE WITH THE OWNER'S BUSINESS OPERATIONS.
- LIMIT ACCESS BY CONSTRUCTION PERSONNEL TO ONLY THOSE AREAS REQUIRED 2 FOR NEW WORK OR TO ACCESS NEW WORK. MAKE GOOD ALL EXISTING SURFACES DISTURBED BY NEW WORK.
- LIMIT REMOVAL OF ITEMS TO SMALLEST AREA POSSIBLE AND MAKE GOOD ALL EXISTING SURFACES DISTURBED BY NEW WORK.
- 4. TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE EXISTING STRUCTURE, ETC. NOT PART OF THE DEMOLITION WORK. PROVIDE AND PLACE BRACING OR SHORING AS REQUIRED. BE RESPONSIBLE FOR SAFETY AND SUPPORT ALL PARTS OF THE BUILDING STRUCTURE, UTILITIES OR PARTS OF SUCH BUILDING OR STRUCTURE AND BE LIABLE FOR ANY MOVEMENT, SETTLEMENT, DAMAGE OR INJURY.
- ALL WASTE MATERIALS SHALL BE REMOVED FROM SITE AND DISPOSED OF, 5. UNLESS OTHERWISE SPECIFIED BY THE OWNER.
- 6. PATCH AND MAKE GOOD ALL SURFACES WHERE DEMOLITION, REMOVAL OR ALTERATIONS OCCUR. SURFACES TO BE FINISHED FLUSH WITH ADJACENT PLANES. TEXTURE AND PAINT TO MATCH EXISTING ADJACENT SURFACES.
- ALL DEMOLITION WORK TO BE CARRIED OUT WITH RESPECT TO CANADIAN SAFETY 7 RULES.

SPECIFIC DEMOLITION NOTES:

- 1 EXISTING EXHAUST FAN REMOVED BY ELECTRICAL CONTRACTOR. MECHANICAL CONTRACTOR TO CAP EXHAUST FAN DUCT IN CEILING.
- 2 CONTRACTOR TO REMOVE EXISTING EXHAUST FAN & ASSOCIATED DUCTWORK UP TO ROOF LEVEL. PATCH & REPAIR ROOF PENETRATIONS. PATCHED ROOF TO MATCH EXISTING ROOF CONSTRUCTION.
- 3 CONTRACTOR TO REMOVE EXISTING BASEBOARD HEATER.
- 4 CONTRACTOR TO REMOVE EXISTING WALL HEATER (eWH) CASING & TURN OVER TO THE GENERAL CONTRACTOR FOR CLEANING & PAINTING.



GENERAL HVAC NOTES:

- 1. CONTRACTOR SHALL PROVIDE FIRE DAMPERS IN ALL NEW DUCTWORK AT ALL DUCT PENETRATIONS OF FIRE SEPARATIONS, INCLUDING LOCATIONS NOT SPECIFICALLY INDICATED ON THESE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE SEPARATION LOCATIONS AND RATINGS.
- 2. ALL LOW VOLTAGE WIRING IN CONDUIT AHLL BE BY DIV 15.
- 3. THIS DRAWING IS DIAGRAMMATIC AND APPROXIMATE AND IS SUBJECT TO REARRANGEMENT FOR PROPER INSTALLATION. THEY ARE NOT INTENDED TO SHOW EVERY ITEM IN ITS EXACT LOCATION, THE EXACT DIMENSIONS, OR ALL THE DETAILS OF THE EQUIPMENT. CERTAIN RUNS OF DUCTWORK AND PIPING SHOWN DISTORTED TO AVOID CONFUSION. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
- 4. DUCT CONSTRUCTION SHALL COMPLY WITH SMACNA STANDARDS.
- 5. CONTRACTOR TO COORDINATE WITH EQUIPMENT SUPPLIERS PRIOR TO INSTALLATION OF MECHANICAL SERVICES TO EQUIPMENT SUPPLIED BY OTHERS.
- 6. ALL EXHAUST TERMINATIONS TO BE A MINIMUM OF 10 FEET AWAY (ANY DIRECTION) FROM ANY MECHANICAL AIR INTAKE. ALL FLUE VENT TERMINATIONS FROM ANY GAS FIRED EQUIPMENT TO BE A MINIMUM OF 6 FEET AWAY (ANY DIRECTION) FROM ANY MECHANICAL AIR INTAKE.

SPECIFIC HVAC NOTES:

- 1 REFRIGERANT LINES FROM HP-1 ON ROOF TO AC-1, AC-2, AC-3 & AC-4.
- 2 ERV FRESH AIR INTAKE FROM ROOF LEVEL. PROVIDE GOOSENECK TERMINATION.
- 3 ERV EXHAUST AIR OUTLET TO ROOF LEVEL. PROVIDE GOOSENECK TERMINATION.
- 4 NEW ENERGY RECOVERY VENTILATOR (ERV-1) TO BE INSTALLED ABOVE CEILING LEVEL IN CORRIDOR.
- 5 CONTRACTOR TO CLEAN EXISTING WALL HEATER (eWH) FINS & PIPING & REINSTALL eWH CASING.



PROPOSED HVAC PLAN SCALE: 1/4" = 1'-0"



GENERAL MECHANICAL NOTES:

- CONTRACTOR SHALL PROVIDE FIRE DAMPERS IN ALL NEW DUCTWORK AT ALL 1. DUCT PENETRATIONS OF FIRE SEPARATIONS, INCLUDING LOCATIONS NOT SPECIFICALLY INDICATED ON THESE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE SEPARATION LOCATIONS AND RATINGS.
- 2. ALL LOW VOLTAGE WIRING IN CONDUIT SHALL BE BY DIV 15.
- THIS DRAWING IS DIAGRAMMATIC AND APPROXIMATE AND IS SUBJECT TO 3 REARRANGEMENT FOR PROPER INSTALLATION. THEY ARE NOT INTENDED TO SHOW EVERY ITEM IN ITS EXACT LOCATION, THE EXACT DIMENSIONS, OR ALL THE DETAILS OF THE EQUIPMENT. CERTAIN RUNS OF DUCTWORK AND PIPING SHOWN DISTORTED TO AVOID CONFUSION. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
- 4. DUCT CONSTRUCTION SHALL COMPLY WITH SMACNA STANDARDS.
- CONTRACTOR TO COORDINATE WITH EQUIPMENT SUPPLIERS PRIOR TO 5. INSTALLATION OF MECHANICAL SERVICES TO EQUIPMENT SUPPLIED BY OTHERS.
- 6. ALL EXHAUST TERMINATIONS TO BE A MINIMUM OF 10 FEET AWAY (ANY DIRECTION) FROM ANY MECHANICAL AIR INTAKE. ALL FLUE VENT TERMINATION'S FROM ANY GAS FIRED EQUIPMENT TO BE A MINIMUM OF 6 FEET AWAY (ANY DIRECTION) FROM ANY MECHANICAL AIR INTAKE.

SPECIFIC MECHANICAL NOTES:

- 1 REGRIGERANT LINES FROM GP-1 TO AC-1 & AC-2 AT FIRST FLOOR.
- 2 FRESH AIR INTAKE FOR ERV-1. TO BE MIN. 10' AWAY FROM ANY EXHAUST.
- 3 EXHAUST AIR FROM ERV-1



GENERAL DEMOLITION NOTES:

- 1. DEMOLITION SHALL BE CARRIED OUT SO THAT THE WORK WILL NOT INTERFERE WITH THE OWNER'S BUSINESS OPERATIONS.
- 2. LIMIT ACCESS BY CONSTRUCTION PERSONNEL TO ONLY THOSE AREAS REQUIRED FOR NEW WORK OR TO ACCESS NEW WORK. MAKE GOOD ALL EXISTING SURFACES DISTURBED BY NEW WORK.
- LIMIT REMOVAL OF ITEMS TO SMALLEST AREA POSSIBLE AND MAKE GOOD ALL 3 EXISTING SURFACES DISTURBED BY NEW WORK.
- 4. TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE EXISTING STRUCTURE, ETC. NOT PART OF THE DEMOLITION WORK. PROVIDE AND PLACE BRACING OR SHORING AS REQUIRED. BE RESPONSIBLE FOR SAFETY AND SUPPORT ALL PARTS OF THE BUILDING STRUCTURE, UTILITIES OR PARTS OF SUCH BUILDING OR STRUCTURE AND BE LIABLE FOR ANY MOVEMENT, SETTLEMENT, DAMAGE OR INJURY.
- 5. ALL WASTE MATERIALS SHALL BE REMOVED FROM SITE AND DISPOSED OF, UNLESS OTHERWISE SPECIFIED BY THE OWNER.
- 6. PATCH AND MAKE GOOD ALL SURFACES WHERE DEMOLITION, REMOVAL OR ALTERATIONS OCCUR. SURFACES TO BE FINISHED FLUSH WITH ADJACENT PLANES. TEXTURE AND PAINT TO MATCH EXISTING ADJACENT SURFACES.
- 7. ALL DEMOLITION WORK TO BE CARRIED OUT WITH RESPECT TO CANADIAN SAFETY RULES.

SPECIFIC DEMOLITION NOTES:

- 1 REMOVE EXISTING SINK & COUNTER, CAP DCW & DHW LINES IN WALL. CAP EXISTING SANITARY IN WALL OR BELOW FLOOR, MAKE GOOD FLOOR LEVEL AND SURFACE.
- 2 REMOVE EXISTING SINK, CAP DCW & DHW LINES IN WALL. CAP EXISTING SANITARY IN WALL OR BELOW FLOOR, MAKE GOOD FLOOR LEVEL AND SURFACE.
- REMOVE EXISTING TOILET, CAP DCW LINE IN WALL. CAP EXISTING SANITARY 3 BELOW FLOOR, MAKE GOOD FLOOR LEVEL AND SURFACE.



PROPOSED DEMOLITION PLUMBING PLAN SCALE: 1/4" = 1'-0"

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GENERAL PLUMBING NOTES:

- 1. SITE VERIFY ALL EXISTING PIPING LOCATIONS AND SIZES BEFORE PROCEEDING. REPORT ANY DISCREPANCIES TO ENGINEER.
- CONTRACTOR SHALL PROVIDE FIRE STOPPING OF ALL NEW PLUMBING AT ALL PENETRATIONS OF FIRE SEPARATIONS, INCLUDING LOCATIONS NOT SPECIFICALLY INDICATED ON THESE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE SEPARATION LOCATIONS AND RATINGS.
- VENTING FOR SANITARY SYSTEM (NOT SHOWN ON DRAWING) SHALL BE FIELD-RUN BY CONTRACTOR IN ACCORDANCE WITH ONTARIO BUILDING CODE REQUIREMENTS. CONTRACTOR SHALL ENSURE ALL VENT PENETRATIONS THROUGH ROOF ARE PROPERLY FLASHED AND WATERPROOFED.
- 4. THIS DRAWING IS DIAGRAMMATIC AND APPROXIMATE AND IS SUBJECT TO REARRANGEMENT FOR PROPER INSTALLATION. THEY ARE NOT INTENDED TO SHOW EVERY ITEM IN ITS EXACT LOCATION, THE EXACT DIMENSIONS, OR ALL THE DETAILS OF THE EQUIPMENT. CERTAIN RUNS OF PIPING SHOWN DISTORTED TO AVOID CONFUSION. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
- MECHANICAL CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR AND ALL EQUIPMENT SUPPLIERS PRIOR TO INSTALLATION OF MECHANICAL SERVICES TO EQUIPMENT SUPPLIED BY OTHERS.
- ALL DOMESTIC HOT, COLD AND RECIRC. WATER PIPING TO BE INSTALLED AT THE HIGHEST LEVEL. (TYPICAL)

SPECIFIC PLUMBING NOTES:

- 1 TIE NEW SANITARY INTO EXISTING, CONTRACTOR TO ENSURE EXISTING SANITARY INVERT IS ADEQUATE TO RECEIVE LATERAL SLOPES AND SUITABLE FOR CONNECTION. MAKE GOOD FLOOR SURFACE WITH MATERIAL IN KIND.
- 2 TIE NEW 1/2"Ø DCW & DHW INTO EXISTING AND RUN ABOVE CEILING AND DOWN WALL TO NEW SINK.



PROPOSED PLUMBING PLAN SCALE: 1/4" = 1'-0"

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1.	GENERAL	4.	SUBMITTALS FOR PROJECT CLOSEOUT
1.1.	CONTRACTOR IS RESPONSIBLE FOR READING AND UNDERSTANDING ALL NOTES SHOWN ON ALL DRAWINGS.	4.1.	THE FOLLOWING SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO SIGN OFF FOR OCCUPANCY:
1.2.	ANY QUESTIONS WHICH ARISE DURING / AFTER READING THE NOTES ON THE DRAWINGS ARE TO BE SUBMITTED TO THE ENGINEER FOR CLARIFICATION BEFORE TENDER SUBMISSION OR WORK BEGINS.	5	-ELECTRICAL SAFELY AUTHORITY CERTIFICATE, -FIRE ALARM VERIFICATION REPORT.
1.3.	ANY ADDITIONAL MATERIAL / LABOR COSTS RESULTING FROM A FAILURE TO COMPLY WITH NOTES 1.1 & 1.2 ABOVE WILL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR. AT TIME OF BID, FOR ANY DISCREPANCIES ON THE PLANS THIS CONTRACTOR SHALL PRESUME THAT THE ITEM WITH HIGHER COST SHALL BE PROVIDED.	5 .1.	THE CONTRACTOR MUST CARRY PROPER AND ADEQUATE LIABILITY INSURANCE TO PROTECT BOT
1.4.	CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO PROCEEDING WITH ANY WORK. WHERE DISCREPANCIES OCCUR BETWEEN THESE DOCUMENTS AND EXISTING CONDITIONS, THE DISCREPANCY SHALL BE REPORTED TO THE OWNER AND/OR ENGINEER FOR EXPEDITING AND RESOLVE.	- 0	
1.5.	ALL EQUIPMENT AND MATERIALS SHALL BE AS SPECIFIED OR "APPROVED EQUAL" BY ENGINEER OR ARCHITECT.	5.2.	WHICH DEFECTS DEVELOP WITHIN ONE YEAR FROM THE DATE OF ACTUAL USE OF EQUIPMENT OR SHALL BE DONE AS DIRECTED BY THE OWNER, WHERE DEFECTS OCCUR, ASSUME RESPONSIBILIT
1.6.	INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR, MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES WHICH INVOLVE EXTRA COST SHALL NOT BE MADE WITHOUT APPROVAL.	0	
1.7.	PROVIDE ALL NECESSARY FLASHING AND COUNTER FLASHING TO MAINTAIN THE WATERPROOFING INTEGRITY OF THIS BUILDING AS REQUIRED BY THE INSTALLATION OF PIPES, DUCTS, CONDUIT AND EQUIPMENT.	6.	METHODS
1.8.	WHERE COMPLETION OF THE WORK REQUIRES COORDINATION WITH OTHER TRADES, NOTIFY ALL TRADES ABOUT INTENDED ACTIONS. THIS CONTRACTOR SHALL COORDINATE HIS	6.1. 6.2	ALL EQUIPMENT AND LOCATIONS TO BE CONFIRMED. ANY DISCREPANCIES SHALL BE BROUGHT TO
1.9.	WORK WITH ALL OTHER TRADES. PRIOR TO STARTING CONSTRUCTION, DETERMINE EXACT INVERT ELEVATION, SIZE, DEPTH AND LOCATION OF EXISTING UTILITIES WHERE CONNECTIONS ARE TO BE MADE OR INTERSECTIONS OCCUR. NOTIFY ARCHITECT OR ENGINEER OF DISCREPANCY BETWEEN DRAWINGS AND ACTUAL FIELD CONDITIONS. WORK BACK TOWARD BUILDING FROM UTILITY CONNECTION FOR ALL PIPING SYSTEMS.	0.2.	ENGRAVED SHEET, BLACK FACE, WHITE CORE, MECHANICALLY ATTACHED WITH SELF TAPPING SC WHITE LETTERS 12mm (1/2in) HIGH FOR JUNCTION BOXES, DISCONNECTS, ETC. IDENTIFICATION TO EMERGENCY POWER, BLUE NAMEPLATES FOR UPS POWER.
1.10.	CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL DEBRIS, RUBBISH, ETC, ON A DAILY BASIS.	6.3.	REFER TO MECHANICAL DRAWINGS FOR EQUIPMENT NOT SPECIFICALLY INDICATED ON ELECTRIC
1.11.	ALL WORK SHALL BE PERFORMED IN A CLEAN AND WORKMANLIKE MANNER.	0.4. 6.5	ALL RELISED EQUIPMENT TO BE ELECTRICALLY TESTED AND VISUALLY INSPECTED
1.12.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFEKEEPING OF HIS OWN PROPERTY ON THE JOB SITE. OWNER ASSUMES NO RESPONSIBILITY FOR PROTECTION OF PROPERTIES AGAINST FIRE, THEFT AND ENVIRONMENTAL CONDITIONS.	6.6.	PROVIDE APPROPRIATELY SIZED CONCRETE HOUSEKEEPING PADS (MIN. 2" HEIGHT) FOR ANY FLO
1.13.	THE WORK IN THE BUILDING SHALL BE DONE WHEN AND AS DIRECTED AND IN A MANNER SATISFACTORY TO THE OWNER.	6.7.	PROVIDE ALL SLEEVES, INSERTS AND HANGERS REQUIRED FOR THE ELECTRICAL WORK. TREAT A
1.14.	CARE SHALL BE EXERCISED TO MINIMIZE ANY INCONVENIENCE OR DISTURBANCE TO OTHER AREAS OF THE BUILDING WHICH ARE TO REMAIN IN OPERATION. ISOLATE WORK AREAS BY MEANS OF TEMPORARY PARTITIONS AND/OR TARPS TO KEEP DUST AND DIRT WITHIN THE CONSTRUCTION AREA.	6.8.	ALL OPENINGS AROUND INSTALLATIONS OF THIS DIVISION PIERCING FIRE OR SMOKE SEPARATION ENSURE THAT VAPOR BARRIER CONTINUITY IS MAINTAINED THROUGHOUT INSTALLATION. FOR EA
1.15.	PROVIDE ALL POWER AND CONTROL WIRING AS WELL AS DISCONNECT SWITCHES AND ASSOCIATED EQUIPMENT REQUIRED BY THE OTHER TRADES IN THE EXECUTION OF THE PROJECT. THE CONTRACTOR SHALL REFER TO THE MECHANICAL DRAWING M1 AS WELL AS ALL OTHER DRAWINGS AND SECTIONS OF THE SPECIFICATIONS TO DETERMINE THE		EQUAL VAPOR BARRIER BOX SURROUNDING OUTLET BOX TO SEAL ALL AIR LEAKS.
	ACTUAL REQUIREMENTS OF ALL OTHER TRADES. ANY QUESTIONS OR AREAS OF CONCERN SHOULD BE ADDRESSED TO THE ENGINEER PRIOR TO THE TIME OF BID. ANY QUESTIONS AFTER THAT TIME SHALL BE ANSWERED BY THE ENGINEER BUT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.	6.9.	SUPPLY AND INSTALL WIRING DEVICES EQUAL TO HUBBELL COMMERCIAL SPECIFICATION GRADE.
1.16.	REFER TO MECHANICAL DRAWINGS FOR EQUIPMENT NOT SPECIFICALLY INDICATED ON ELECTRICAL DRAWINGS.	6.10.	ANY ELECTRICAL DEVICE BOXES (RECEPTACLES, TELEVISION, TELEPHONE, FIRE ALARM, ETC.,) LO 1 STUD SPACE OR 300mm FOR CONCRETE WALLS. WHERE STAGGERING OF THESE BOXES IS NOTE ROXES
1.17.	ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR 120V AND ABOVE POWER AND CONTROL WIRING FOR EQUIPMENT SPECIFIED IN MECHANICAL SCHEDULES.	6.11.	ALL RECEPTACLES EXPOSED TO THE WEATHER OF CSA CONFIGURATION 5-15R, 5-20R, 5-20RA, 6-1
1.18.	ENGINEER SHALL HAVE ACCESS TO WORK AT ALL TIMES AND SHALL BE NOTIFIED AT AGREED UPON TIMES OF STAGES OF WORK. WHERE WORK DOES NOT COMPLY WITH STANDARDS OR WORK SPECIFIED OR IMPLIED. THE DEFICIENCY SHALL BE CORRECTED AS DIRECTED BY THE ENGINEER. ALL SUBSEQUENT TESTING TO VERIFY OPERATION OR PERFORMANCE		LOCATIONS WHETHER OR NOT PLUG IS INSTALLED AS PER OESC RULE 26-708(2).
	SHALL BE THE CONTRACTOR'S EXPENSE.	7.	CONDUCTORS AND RACEWAY
1.19.	INVESTIGATE EACH SPACE THROUGH WHICH EQUIPMENT MUST BE MOVED. WHERE NECESSARY, EQUIPMENT SHALL BE SHIPPED FROM THE MANUFACTURER IN SECTIONS OF SIZE SUITABLE FOR MOVING THROUGH AVAILABLE RESTRICTIVE SPACES. ASCERTAIN FROM BUILDING OWNER AND TENANT AT WHAT TIMES OF THE DAY EQUIPMENT MAY BE MOVED THROUGH ALL AREAS	7.1.	THE CONDUIT LAYOUT IS TO BE BASED ON MOST EFFICIENT ROUTING WITHIN CONSTRAINTS OF AC
1.20.	MATERIALS AND WORKMANSHIP, UNLESS OTHERWISE NOTED, SHALL BE IN ACCORDANCE WITH BUILDING STANDARDS.	7.2.	SUPPORT ALL CONDUITS, RACEWAYS AND CABLES WITH APPROVED CLIPS AND SCREWS.
1.21.	SUPPLY ALL ITEMS, ARTICLES, MATERIALS, USING METHODS, OPERATIONS OR TECHNIQUE MENTIONED, SHOWN, SCHEDULED OR REASONABLY IMPLIED BY THE DRAWINGS AND	7.4.	FEEDER CIRCUITS ARE TO HAVE A MAXIMUM VOLTAGE DROP OF 2% BASED UPON ACTUAL LENGTH
	SPECIFICATIONS. THIS SHALL INCLUDE ALL LABOUR, MATERIAL, EQUIPMENT, TOOLS, APPARATUS AND INCIDENTALS REQUIRED TO PROVIDE A COMPLETE AND SAFELY OPERABLE ELECTRICAL SYSTEM OR SYSTEMS. INCLUDE ALL COSTS FOR PERMITS, LICENSES AND CERTIFICATE FILING AND INSPECTIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION.		MAXIMUM VOLTAGE DROP OF 3%.
1.22.	CONFIRM REQUIREMENT OF BIDDING DOCUMENTS AND DIVISION1.	7.5.	WIRING AND RACEWAY IN PLENUM SPACE ABOVE CEILING IS TO BE RATED AS SUCH (EG. F16, F14) NEED NOT CONFORM PROVIDED THAT THE LENGTH IS 3M OR LESS AND IT IS RATED FOR AT LEAST
1.23.	UNLESS OTHERWISE STATED, ALL SPECIFIED MATERIALS ARE PER BASE BID SPECIFICATION. PROVIDE PRICING FOR THESE MATERIALS. ALTERNATES MAY BE PROPOSED AND EVALUATED FROM SUCCESSFUL BIDDER ONLY, AFTER TENDER HAS BEEN AWARDED, WITH ANY CHANGE IN COST, LEAD TIMES, ETC.	7.6.	ALL EXISTING WIRING TO BE MEGGERED BEFORE STARTING CONSTRUCTION. REPORT FINDINGS C
1.24.	THE ELECTRICAL AND LIGHTING PLANS ARE INTENDED TO BE DIAGRAMMATIC AND ARE BASED, IN PART, ON OTHER'S DRAWINGS AND/OR TYPE OF EQUIPMENT. THEY ARE NOT INTENDED TO SHOW EVERY ITEM IN ITS EXACT LOCATION, THE EXACT DIMENSIONS OR ALL THE DETAILS OF THE EQUIPMENT.	7.7.	
1.25.	ANY EQUIPMENT SHOWN ON THE PLANS SHALL BE RELOCATED WITHIN 3m WITHOUT ANY ADDITIONAL COST DUE TO SITE CONDITIONS, OWNER REQUEST, COORDINATION WITH OTHER	ð.	
1.26.	COORDINATE NOISY WORK WITH OTHER TRADES TO MINIMIZE NOISE DISTURBANCES. SCHEDULE AT TIMES APPROVED BY THE OWNER.	8.1. 8.2	TELEPHONE AND DATA OUTLETS TO BE PROVIDED AS SHOWN ON THE DRAWING
2.	COMPLIANCE, REGULATIONS AND PERMITS	8.3.	PROVIDE EMPTY DEVICE BOXES, CONDUITS (MINIMUM 1/2") AND PULL CORDS FOR ALL COMMUNICA
2.1.	ALL APPLICABLE CODES, LAWS AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE	0 /	CONTAINING BACKBOARD. WHERE DROP CEILINGS EXIST AND AT THE DISCRETION OF THE OWNER
	SPECIFICATIONS, AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR WHO SHALL INFORM THE OWNER, PRIOR TO SUBMITTING A PROPOSAL, OF ANY WORK OR MATERIALS WHICH VIOLATE ANY OF THE ABOVE LAWS AND REGULATIONS. ANY WORK DONE BY THE CONTRACTOR CAUSING SUCH VIOLATIONS SHALL BE CORRECTED BY THE	8.5.	ALL WORK IS TO BE COORDINATED WITH THE INFORMATION TECHNOLOGY CONTRACTOR AND/OR
1 1		8.6.	TYPE AND LOCATION OF DATA EQUIPMENT TO BE DETERMINED BY INFORMATION TECHNOLOGY CO
2.2.	ELECTRICAL MATERIAL AND EQUIPMENT SUPPLIED SHALL BE APPROVED FOR USE IN ONTARIO AND BEAR ONE OF ESA CERTIFICATION MARKINGS OR ESA APPROVED FIELD	9.	OUTDOOR LIGHTING
		9.1.	ALL LIGHT FIXTURES TO BE CONFIRMED BY OWNER.
2.4. 2.5	EQUIPMENT AND APPLIANCES TO COMPLY TO THE LATEST REVISION OF: ASHRAE 90.1, ONTARIO EFFICIENCY ACT.	9.2.	LIGHTING SHALL BE AS SHOWN ON THE DRAWING. ANY DEVIATION BY CONTRACTOR SHALL SATISF
2.0.	UNDERGROUND SYSTEMS CSA C22.3 NO.7.	9.3.	ALL EXTERIOR BUILDING GROUNDS LUMINAIRES GREATER THAN 100W TO HAVE LAMPS WITH MINIM
2.6.	IT IS CONTRACTORS RESPONSIBILITY TO PROVIDE ESA INSPECTIONS AS REQUIRED AND ESA CERTIFICATE OF APPROVAL UPON COMPLETION OF WORK	9.4.	ALL EXTERIOR LIGHTING TO BE OPERATIONAL AT -29°C.
2.7.		9.5.	LIGHTING CONTROLLED BY PHOTOCELL & TIMER.
2.0.	THE WORK COVERED IN THE ELECTRICAL DRAWINGS, DESCRIBED HEREIN AND/OR IMPLIED BY THE DRAWINGS AND/OR THE NOTES, IS THE RESPONSIBILITY OF THE ELECTRICAL	9.6. 1 0	
2.10.	CONTRACTOR. THE WORK UNDER CONTRACT INCLUDES ALL LABOR, MATERIALS, AND APPLIANCES NECESSARY FOR THE FURNISHING, INSTALLATION AND TESTING, COMPLETE AND READY FOR SAFE OPERATION OF THE SYSTEMS. WORK SHALL BE INSTALLED IN A NEAT, WORKMANLIKE MANNER. INCLUDE ALL COSTS FOR PERMITS. LICENSES AND CERTIFICATE FILING AND	IU. 10.1.	FIRE ALARIVI INSTALL ALARM SYSTEM COMPONENTS AS INDICATED ON THE DRAWINGS AND IN ACCORDANCE TO
	INSPECTIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION.	10.2.	PROVIDE SHOP DRAWINGS AND THIRD PARTY CERTIFICATION OF VERIFICATION, EG. SIMPLEXGRIN
2.11.	THE CONTRACTOR SHALL SECURE ALL PERMITS, APPLICATIONS AND INSPECTIONS WITH THE AUTHORITIES HAVING JURISDICTION (SPECIFICALLY THE ELECTRICAL SAFETY AUTHORITY OF ONTARIO) AND PAY ANY AND ALL FEES THAT ARISE FROM THESE PERMITS, APPLICATIONS AND INSPECTIONS.	10.3.	FIRE ALARM SYSTEMS MUST BE INSTALLED IN CONFORMANCE WITH CAN/ULC-S524, "INSTALLATION
3.	SHOP DRAWINGS	10.5.	ANY SINGLE FIRE ALARM HORN/STROBE IN ALARM STATE IS TO ACTIVATE ALL FIRE ALARM HORN/S
3.1.	SUBMIT EQUIPMENT AND FIXTURE SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO PURCHASE, INSTALLATION OR FABRICATION. THE CONTRACTOR SHALL NOT PROCEED UNTIL APPROVED SHOP DRAWINGS ARE RETURNED FROM THE ENGINEER.	11.	MANDATORY ASHRAE 90.1/OBC REQUIREMENTS
3.2.	DO NOT SUBSTITUTE ANY HARDWARE OR FIXTURES WITHOUT PRIOR APPROVAL FROM THE ENGINEER.	11.1.	ALL NEW NEMA CLASS 1 LOW VOLTAGE DRY TYPE TRANSFORMERS ARE TO MEET NOMINAL EFFICI VALUES FOR DRY-TYPE TRANSFORMERS".
3.3.	CLEARLY INDICATE ON THE SHOP DRAWINGS THE NAME OF THE PROJECT AS STATED ON THE ELECTRICAL DRAWINGS.	11.2.	CONTRACTOR IS TO INSTALL OCCUPANCY SENSORS FOR AUTOMATIC LIGHTING SHUTOFF OF FIXT
3.4.	CLEARLY INDICATE ON THE SHOP DRAWINGS, THE ITEM OR TYPE REFERENCE NUMBER FROM THE ELECTRICAL DRAWING SCHEDULES. WHERE NO SCHEDULE ITEM OR TYPE IS PRESENT, INDICATE DRAWING NUMBER, REVISION AND EQUIPMENT TAG.	11.3.	APPROVED BY ENGINEER. FUNCTIONAL TESTING OF ALL LIGHTING CONTROL DEVICES AND SYSTEMS IS TO RE PERFORMED F
3.5.	AS A MINIMUM, SHOP DRAWINGS TO BE INCLUDED ARE AS FOLLOWS: -LIGHT FIXTURES, OCCUPANCY SENSORS		
3.6. 2 7			
5.1.	ANT NUTFICATIONS FROM THE SUPPLIER / MANUFACTURER TO THE CONTRACTOR PERTAINING TO EQUIPMENT DELAYS SHALL BE PROMPTLY FORWARDED TO THE ELECTRICAL ENGINEER.		
3.8.	UPON NOTIFICATION OF EXCESSIVE DELAYS FROM THE SUPPLIER / MANUFACTURER THE CONTRACTOR IS TO PROVIDE ALTERNATE ELECTRICAL EQUIPMENT OF EQUIVALENT FUNCTIONALITY TO ENSURE PROJECT COMPLETION IS NOT JEOPARDIZED. CONTRACTOR TO PROVIDE NEW LEAD TIME AND COSTING FOR ENGINEER AND CLIENT REVIEW AND APPROVAL.		

ROJECT CLOSEOUT

ER AND ADEQUATE LIABILITY INSURANCE TO PROTECT BOTH HIMSELF AND THE OWNER FROM ALL CLAIMS RELATED TO HIS WORK FOR THIS

EPLACE OR REPAIR PROMPTLY AND ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED FOR ANY WORKMANSHIP AND EQUIPMENT IN YEAR FROM THE DATE OF ACTUAL USE OF EQUIPMENT OR OCCUPANCY OF SPACES BY OWNER, WHICHEVER DATES IS EARLIER. THIS WORK WNER, WHERE DEFECTS OCCUR, ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED IN REPAIRING AND REPLACING WORK OF THE

E CONFIRMED. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.

BY CONTRACTOR SHALL BE IDENTIFIED BY LAMACOID IDENTIFICATION PLATES. LAMACOID PLATES ARE TO BE 3mm (1/8in) THICK PLASTIC CORE, MECHANICALLY ATTACHED WITH SELF TAPPING SCREWS. WHITE LETTERS 20mm (3/4in) HIGH FOR MAJOR ELECTRICAL EQUIPMENT, JUNCTION BOXES, DISCONNECTS, ETC. IDENTIFICATION TO BE IN ENGLISH. BLACK NAMEPLATES FOR NORMAL POWER, RED NAMEPLATES FOR

R EQUIPMENT NOT SPECIFICALLY INDICATED ON ELECTRICAL DRAWINGS.

DISCONNECT SWITCHES FOR ROOF TOP HVAC EQUIPMENT IF NOT PROVIDED AS PART OF EQUIPMENT SUPPLY PACKAGE.

RETE HOUSEKEEPING PADS (MIN. 2" HEIGHT) FOR ANY FLOOR MOUNTED ELECTRICAL DISTRIBUTION EQUIPMENT.

ANGERS REQUIRED FOR THE ELECTRICAL WORK. TREAT ALL SLEEVES OR HOLES PIERCING ACOUSTICAL SEPARATIONS FOR INSTALLATIONS TICAL RATINGS. ALL GAPS SHALL BE PACKED WITH ACOUSTICAL INSULATION AND SEALED AT BOTH ENDS WITH ACOUSTICAL CAULKING. PATCH IS OF THIS DIVISION PIERCING FIRE OR SMOKE SEPARATIONS WITH AN APPROVED WATERTIGHT SMOKE AND FIRE STOP SEALANT.

UITY IS MAINTAINED THROUGHOUT INSTALLATION. FOR EACH APPLICABLE OUTLET BOX, PROVIDE AN APPROPRIATELY SIZED HUBBLE OR DING OUTLET BOX TO SEAL ALL AIR LEAKS.

EQUAL TO HUBBELL COMMERCIAL SPECIFICATION GRADE. COLOUR OF DEVICES AND WALL PLATES ARE SUBJECT TO ARCHITECT APPROVAL.

PTACLES, TELEVISION, TELEPHONE, FIRE ALARM, ETC..) LOCATED BACK-TO-BACK IN DEMISING WALLS ARE TO BE STAGGERED BY A MINIMUM OF TE WALLS. WHERE STAGGERING OF THESE BOXES IS NOTE POSSIBLE, PEARLITE OR PUTTY PADS ARE REQUIRED ON THE BACKSIDE OF THE

EATHER OF CSA CONFIGURATION 5-15R, 5-20R, 5-20RA, 6-15R, 6-20R AND 6-20RA SHALL BE PROVIDED WITH COVER PLATE SUITABLE FOR WET INSTALLED AS PER OESC RULE 26-708(2).

O ON MOST EFFICIENT ROUTING WITHIN CONSTRAINTS OF ACCESS, WALL OPENINGS AND CONDUIT ENTRY TO EQUIPMENT.

INCLUDING 100 AMPS TO BE COPPER, MINIMUM #12 AWG. ALL WIRING CONDUCTING GREATER THAN 100 AMPS TO BE ALUMINUM.

IMUM VOLTAGE DROP OF 2% BASED UPON ACTUAL LENGTH OF CONDUCTORS UPON INSTALLATION. BRANCH CIRCUITS ARE TO HAVE A

CE ABOVE CEILING IS TO BE RATED AS SUCH (EG. FT6, FT4 OR NON-COMBUSTIBLE). FLEXIBLE CORD TO LIGHT FIXTURES IN PLENUM SPACE HE LENGTH IS 3M OR LESS AND IT IS RATED FOR AT LEAST 90 DEGREES CELSIUS AND IS OTHERWISE PROPERLY RATED FOR SPACE.

D BEFORE STARTING CONSTRUCTION. REPORT FINDINGS OF FAILED WIRING TO ENGINEER PRIOR TO REPLACEMENT.

JITS (MINIMUM 1/2") AND PULL CORDS FOR ALL COMMUNICATION OUTLET LOCATIONS SHOWN ON DRAWINGS. TERMINATE CONDUITS IN ROOM P CEILINGS EXIST AND AT THE DISCRETION OF THE OWNER, CONDUITS MAY BE TERMINATED ABOVE THE FINISHED CEILING SPACE.

E OUTLETS TO BE REMOVED UNLESS INDICATED ON DRAWING.

H THE INFORMATION TECHNOLOGY CONTRACTOR AND/OR OWNER

MENT TO BE DETERMINED BY INFORMATION TECHNOLOGY CONTRACTOR.

DRAWING. ANY DEVIATION BY CONTRACTOR SHALL SATISFY ASHRAE 90.1. INAIRES GREATER THAN 100W TO HAVE LAMPS WITH MINIMUM EFFICACY OF 60 LUMENS/W

S AS INDICATED ON THE DRAWINGS AND IN ACCORDANCE TO OBC 3.2.4.

PARTY CERTIFICATION OF VERIFICATION, EG. SIMPLEXGRINNEL, CHUBB EDWARDS, ETC.

LED IN CONFORMANCE WITH CAN/ULC-S524, "INSTALLATION OF FIRE ALARM SYSTEMS".

ORMANCE WITH CAN/ULC-S537 "VERIFICATION OF FIRE ALARM SYSTEMS".

BE IN ALARM STATE IS TO ACTIVATE ALL FIRE ALARM HORN/STROBE UNITS SIMULTANEOUSLY.

E 90.1/OBC REQUIREMENTS

DRY TYPE TRANSFORMERS ARE TO MEET NOMINAL EFFICIENCY LEVELS AS PER CAN/CSA C802.2-18, "TEST METHOD AND MINIMUM EFFICIENCY

CY SENSORS FOR AUTOMATIC LIGHTING SHUTOFF OF FIXTURES INDICATED. SHUT OFF BY ALTERNATE AUTOMATIC CONTROL DEVICES IS TO BE

G CONTROL DEVICES AND SYSTEMS IS TO BE PERFORMED BY A THIRD PARTY.



KEY PLAN SCALE: 1/32" = 1'-0"

DRAWING LIST

- E1.1 ELECTRICAL NOTES & KEY PLAN
- E1.2 LEGENDS, LIGHT SCHEDULE, DETAILS, PANEL SCHEDULE & COORDINATION TABLE
- E2 ELECTRICAL SITE PLAN
- E3 ELECTRICAL & LIGHTING DEMOLITION PLANS
- E4 ELECTRICAL & LIGHTING PROPOSED PLANS

E1.1

r									
PROFESSION PROFESSION MATTWRIGH P 04/15/2024 240305 P 04/15/2024 240305 PROFESSION PROFESSIO	AV ENGINEER								
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Do not scale drawings. Report any discrepancies to Hallex Engineering Ltd. before proceeding. This drawing must be signed and sealed by the Engineer prior to use in construction or submission for building permit. All construction shall be in accordance with latest edition of the Ontario Building Code and all applicable Ontario regulations. No part of this drawing including details, calculations or schedules may be reproduced in any form, either in part or whole, without the prior written consent of Hallex Engineering Ltd.									
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REV. ISSUED FOR: 0 PERMIT/TENDER	YYYY/MM/DD 2024/04/15								
CLIENT: WHITELINE ARCHITECTS INC. 146 JAMES STREET ST. CATHARINES, ON. L2R 5C5									
L2R 5C5									
L2R 5C5 PROJECT: NCDSB ST. THERESE INTERIOR RENOVATIO 530 KILLALY ST. EAST PORT COLBORNE, ON	CES DNS I.								
L2R 5C5 PROJECT: NCDSB ST. THERESE INTERIOR RENOVATIO 530 KILLALY ST. EAST PORT COLBORNE, ON SHEET TITLE: ELECTRICAL NOTES 8	CES DNS I.								
L2R 5C5 PROJECT: NCDSB ST. THERESE INTERIOR RENOVATIO 530 KILLALY ST. EAST PORT COLBORNE, ON SHEET TITLE: ELECTRICAL NOTES 8 JOB NUMBER: 240305 DATE: NAP. 05	CES DNS I. KEY PLAN								
L2R 5C5 PROJECT: NCDSB ST. THERESE INTERIOR RENOVATIO 530 KILLALY ST. EAST PORT COLBORNE, ON SHEET TITLE: ELECTRICAL NOTES 8 JOB NUMBER: 240305 DATE: MAR. 05, DRAWN BY: MW DESIGNED BY: MW	CES DNS I. KEY PLAN 2024								
L2R 5C5 PROJECT: NCDSB ST. THERESE INTERIOR RENOVATIO 530 KILLALY ST. EAST PORT COLBORNE, ON SHEET TITLE: ELECTRICAL NOTES 8 JOB NUMBER: 240305 DATE: MAR. 05, DRAWN BY: MW DESIGNED BY: MW CHECKED BY: MW SCALE: AS SHOW	CES DNS I. KEY PLAN 2024 2024								

	ELECTRICAL LEGEND							LIGH	T SCHEDULE			
Φ	DUPLEX RECEPTACLE, 15A/120V	ITEM	SYMBOL	No. LAMPS	VOLTS	LAMP TYPE	WATTS		DESCRIPTION			
DUPLEX RECEPTACLE, 20A/120V				-	120	-	-	EXISTING 2'x4' RECESSED FIXTURE TO BE				
DUPLEX RECEPTACLE MOUNTED OVER COUNTER, COORDINATE WITH ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING HEIGHT, 15A/120V				-	120	-	-	EXISTING 1'x4' RECESSED FIXTURE TO BE	-			
●☆⊕₩	GROUND FAULT TYPE DUPLEX RECEPTACLE, , 15A/120V, 15A/120V OVER COUNTER, 20A/120V, 20A/120V OVER COUNTER	C	g	-	120	-	-	EXISTING SURFACE MOUNTED DOME FIXT	_			
	SPECIAL RATED RECEPTACLE, AMP & VOLT RATING INDICATED OR DIRECT CONNECTION AS REQUIRED				120	LED	55	NEW LITHONIA LIGHTING 2'x4' RECESSED I	-			
	ELECTRICAL PANEL, RECESSED MTD., SEE SCHEDULE FOR DETAILS			-	120	LED	41	NEW LITHONIA LIGHTING 1'x4' RECESSED I	FLAT PANEL. CPANL 1X4 AL01 SWW4 M2, ENSURE 4000K COI	LOUR TEMPERATURE AND NOMINAL LUMENS OF 4400		_
	ELECTRICAL PANEL, SURFACE MTD., SEE SCHEDULE FOR DETAILS	 F	 X	-	120	LED	14	NEW LITHONIA LIGHTING 6" DOWNLIGHT, V	NF6 LED 40K 90CRI MW M6, ENSURE 4000K COLOUR TEMPER	RATURE		_
\$	OCCUPANCY SENSOR, REFER TO LIGHTING NOTES 3 & 4 ON THIS DRAWING	SLA		-	120	LED	47	NEW GARDCO PUREFORM WALLPACK, 400	00K, PWS-48L-300-NW-G2-4-UNC-PCB-BK, 'WG' = C/W WIREGL	-		
\$	TOGGLE SWITCH, 'D' - DIMMER SWITCH	SLB#		-	120	LED	16	NEW ADONIS LINER LED UNDER CANOPY F	FIXTURE, ADONIS-HYDRAHD0628, # INDICATES LENGTH OF F	-		
\$	3-WAY SWITCH											
D#	DATA OUTLET, # INDICATES QUANTITY OF JACKS, C/W 1/2" EMT CONDUIT FROM JUNCTION BOX TO CEILING SPACE, MOUNTED 18" A.F.F. UNLESS NOTED OTHERWISE. IF OUTLET IS IN A			LIGHT TAG LEGEND STANDARD MOUNTING HEIGHTS								
	TELEDHONE OUTLET # INDICATES OUANTITY OF IACKS, CAN 4/2" ENT CONDUIT FROM UNICTION DOY TO CEILING SPACE, MOUNTED 49" A FE LINUESS NOTED OTHERWISE, JE OUTLET IS	A-C (\)7 1 a דייריי							1150 mm	DM	
T#	IN A ROOM WITH AN OPEN CEILING, RUN CONDUIT ALONG CEILING TO NEAREST DROP CEILING OR DATA RACK, WHICHEVER IS CLOSER			NTROLLING L GHT LIGHT, 'F(.IGHT SWITC)' = CONTR(H REFERENCE	1 TO 3 CHAF RE MOUNTEI	RACTERS), 'PC' = PHOTOCONTROL, 'NL' =		350 mm		
JB	JUNCTION BOX		$ \longrightarrow FL $	OOR DESIGNA	TION (1 OR	2 CHARACTERS	, 'R' = ROOF	, 'E' = EXTERIOR	COUNTER SPLASH BACKS	175 mm		
٨	AUTOMATIC DOOR OPERATOR PUSH BUTTON, MOUNTED BETWEEN 900mm & 1100mm A.F.F. PROVIDE 2"X4" BOX AND 16mm EMT CONDUIT AS REQUIRED. FOR W/R POWER DOOR REFER TO			CUIT NUMBE	R (2 CHARA	CTERS)			WALL RECEPTACLES - IN ELECTRICAL/MECHANICAL	700 mm	ER FX	EXISTING TO BE RELOCATED
ГМ	INTERMATIC 7-DAY TIMER ET1705C OR EQUIVALENT		> PANEL DESIGNATION (1 TO 3 CHARACTERS) TELEPHONE AND DATA OUTLETS 350 mm								FD	FUSED DISCONNECT SWITCH
	CARD READER. C/W 1/2" EMT CONDUIT FROM JUNCTION BOX TO CEILING SPACE. MOUNTED 12" A.F.F. UNLESS NOTED OTHERWISE. IF CARD READER IS IN A ROOM WITH AN OPEN	EX.ABOVE								1000 mm	00	MOUNTED OVER COUNTER/SINK
	CEILING, RUN CONDUIT ALONG CEILING TO NEAREST DROP CEILING OR DATA RACK, WHICHEVER IS CLOSER	A-C071a							MANUAL PULL STATION, THERMOSTATS, BARRIER - FREE	1200 mm	PC	PHOTOCELL CONTROL
	WEATHERPROOF NON-FUSED DISCONNECT SWITCH	J - TIEM /	A IN LIGHT SCH L C	DULE					OTHER DEVICES, SWITCHES, ETC., IN BARRIER - FREE	4000	PP	POWER PANEL
	FIRE DETECTION I EGEND	- CIRCL	JIT 7 P 1						PATH OF TRAVEL	1000 mm	RL	RELOCATED ITEM
	HEAT DETECTOR, RATE-OF-RISE	- SWIT(CHa						FIRE ALARM HORN/STROBE, EMERGENCY CALL SYSTEM	2350 mm TO TOP OF DEVICE (ADJUST IN ANY CASE FOR A MINIMUM OF 150 mm SPACE BETWEEN THE	RM	EXISTING TO BE REMOVED
			G NOTES:						VISUAL INDICATOR	CEILING AND THE TOP OF DEVICE)	WP	WEATHER PROOF
		1. L	GHT SWITCHES	WITH THE SA	AME LIGHTIN	IG DESIGNATIO	I, BUT NOT S	SHOWN AS 3-WAY SWITCHES ARE TO	EMERGENCY LIGHTING REMOTE HEADS	2450 mm	WG	WIREGUARD
		B 2. C	E WIRED IN SEF	RES. IAL LOCATION	I OF ALL LIG	HTING WITH ME	CHANICAL D	RAWINGS.	PANELBOARDS	AS REQUIRED BY CODE OR AS INDICATED	NOTE:	1
	CEILING MOUNTED OCCUPANCY SENSORS TO BE SENSORSWITCH CMR-PDT-10 UNLESS NOTED OTHERWISE. ALTERNATIVES TO BE APPROVED BY ENGINEER. WALL MOUNTED OCCUPANCY SENSORS TO BE SENSORSWITCH WSY PDT-D-WH UNLESS NOTED									REFER TO MECHANICAL DRAWINGS FOR ALI MECHANICAL/PLUMBING EQUIPMENT ABBREVIATIONS		

- WALL MOUNTED OCCUPANCY SENSORS TO BE SENSORSWITCH WSX-PDT-D-WH UNLESS NOTED OTHERWISE. LIGHTS TO TURN ON TO 50% LIGHT LEVEL UPON INITIAL OCCUPANCY. ALTERNATIVES TO BE APPROVED BY ENGINEER.
- ELECTRICAL LEGENDS & LIGHT SCHEDULE

SCALE: N.T.S.

	MECHANICAL / ELECTRICAL COORDINATION SCHEDULE																			
	ELECTRICAL CHARACTERISTICS				F/A SHUTDOWN (BY DIV. 16.)	F/A SHUTDOWN (BY DIV. 16.) REMOTE CONTROL (THIS COLUMN REFERS TO INTERLOCKING ONLY. NOT THE EQUIPMENT ITSELF)								LF)	NOTES					
TAG	DESCRIPTION	LOCATION	HORSEPOWER	KW	FULL LOAD AMPS	MINIMUM CIRCUIT AMPS	VOLTAGE	PHASE	ISOLATING DEVICE	EQUIPMENT TO SHUTDOWN	THERMOSTAT	KA THERMOSTAT	BMS	SENSOR	TIMER	INTERLOCKED WITH	CONTROL INTERLOCKED BY	CONTROL SUPPLIED BY	CONTROL INSTALLED BY	LEGEND: E = ELECTRICAL CONTRACTOR M = MECHANICAL CONTRACTOR O = OTHER
ERV-1	ENERGY RECOVERY VENTILATOR	CORRIDOR (1.02)					120	1	PANEL A						X		М	М	М	LOW VOLTAGE CONNECTIONS BY DIV. 15. HIGH VOLTAGE CONNECTIONS BY DIV. 16.
AC-1	INDOOR AC UNIT				0.40		208	1	PANEL A		х					HP-1	М	М	М	LOW VOLTAGE CONNECTIONS BY DIV. 15. HIGH VOLTAGE CONNECTIONS BY DIV. 16. INTERLOCKED w/ TIMER FOR ON/OFF OPERATION.
AC-2	INDOOR AC UNIT	HEALTH ROOM (102)			0.40		208	1	PANEL A		Х					HP-1	М	М	М	LOW VOLTAGE CONNECTIONS BY DIV. 15. HIGH VOLTAGE CONNECTIONS BY DIV. 16.
AC-3	INDOOR AC UNIT	PRINCIPAL'S OFFICE (101A)			0.40		208	1	PANEL A		Х					HP-1	М	М	М	LOW VOLTAGE CONNECTIONS BY DIV. 15. HIGH VOLTAGE CONNECTIONS BY DIV. 16.
AC-4	INDOOR AC UNIT	RECEPTION (101)			0.40		208	1	PANEL A		Х					HP-1	М	М	М	LOW VOLTAGE CONNECTIONS BY DIV. 15. HIGH VOLTAGE CONNECTIONS BY DIV. 16.
HP-1	HEAT PUMP	ROOF (SEE PLAN)				18.4	208	1	PANEL A							AC-1, AC-2, AC-3 & AC-4	М	М	М	LOW VOLTAGE CONNECTIONS BY DIV. 15. HIGH VOLTAGE CONNECTIONS BY DIV. 16.

MECHANICAL/ELECTRICAL COORDINATION TABLE

SCALE: N.T.S.

EXISTIN	IG HO	USE PANEL A				36 CIRCUIT 2 MOUNTED	25A, 3PH SUF	RFACE
CIRCU	IT #	DESCRIPTION	AMPS A	AMPS B	AMPS C	VOLTS	PHASE	C.B.A.T.
1		EX. PHOTOCELL	Х			120	1	15
3		EX. POLE LIGHTS		Х		120	1	15
5		EX. HONEYWELL PANEL			Х	120	1	15
7		EX. FURNACE AIR	Х			120	1	15
9		EX. SPARE		Х		120	1	15
11		EX. FREEZER			Х	120	1	15
13		EX. FRIDGE RANGE	Х			120	1	15
15		EX. COMPUTER HUB		Х		120	1	15
17		EX. WEST ENTRY POLE LIGHTS			Х	120	1	20
19			Х					
21		- EX. SPARE		Х		208	1	30
23		EX. PANEL PLUG			Х	120	1	15
25		EX. KEY SCAN	Х			120	1	15
27								
29		EX. PRINCIPAL COMPUTER			Х	120	1	15
31			X					
33		- EXSITING OFFICE HEATER TO BE SPARE		X		208	1	20
35		NEW POWER DOOR OPERATORS			12	120	1	15*
	2	EX. PROGRAMMABLE TIMER	Х			120	1	15
	4	EX. OUTSIDE LIGHTS		Х		120	1	15
	6	EX. JOHNSON CONTROLS			Х	120	1	15
	8	EX. HOT WATER PLUG	Х			120	1	15
	10	EX. DISHWASHER		Х		120	1	15
	12	EX. HEAT TRACE			Х	120	1	15
	14	EX. HEAT TRACE	Х			120	1	15
	16	EX. SPARE		Х		120	1	15
	18	EX. PHOTOCOPIER			Х	120	1	20
	20	EX. SECURITY	Х			120	1	15
	22	EX. COMPUTER ROOM 3		Х		120	1	15
	24	EX. COMPUTER ROOM 3			Х	120	1	15
	26		Х					
	28	- EX. STAFF RANGE		Х		208	1	30
	30				18			
	32	NEW HEAT PUMP HP-1 AND AC UNITS	18			208	1	25*
	34	NEW ERV-1		2		120	1	15*
	36	NEW ROOFTOP MAINTANENCE RECEPTACLE			16	120	1	20*
THE ELECTRIC	AL CONTRA	CTOR IS TO CONFIRM FINAL CIRCUIT LOAD AND ENSURE C	IRCUIT PROTECT	TION, WIRING A	AND CONDUI	T IS SIZED TO S	SATISFY THE	ONTARIO
		TOTAL PHASE A	18					
		TOTAL PHASE B		2		1		
		TOTAL PHASE C			46	1		
		1		1				

UPDATED PANEL SCHEDULE

SCALE: N.T.S.

	- 055	100							
	PROFE	WRIGHT							
	BROUTINCE	5/2024 0305 0F ONTARIO	/						
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LIGHTING DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

	510				PROFE	SSIONAL
1	NE(CESSARY TO EXTEND CONDUCTORS TO NEV	RECEPTACLE AND DATA. INSTALL BLANKING COVERS AS		Level Charles	
2	DIS REI	SCONNECT AND STORE IN A CLEAN SAFE SPA MOVAL OF THE EXISTING CEILING.	CE ALL HEAT DETECTORS TO FACILITATE THE			
3	DIS UNI	CONNECT, REMOVE AND TURN OVER TO TH DERNEATH THE SINK. PULL BACK CONDUCT	E BOARD THE EXISTING PANEL MOUNTED DRS TO NEAREST DISCONNECTING MEANS.		17 04/15 240	1305 11 TARIO
4	DIS	CONNECT, REMOVE AND TURN OVER TO TH	E BOARD ALL EXISTING LIGHT FIXTURES IN GOOD		WCE C	OF ON
5	DIS BAS OFI	SCONNECT, PULL BACK AND REMOVE CONDL SEBOARD HEATER AND EXHAUST FAN AS SH F POSITION.	CTORS TO HOUSE PANEL A FOR THE EXISTING OWN. LABEL BREAKER AS 'SPARE' AND TURN TO TH	E		
		ABBREVIATION TABLE				
	DM DP	DIMMING SWITCH				
	EF	EXHAUST FAN		-		
	ER	EXISTING TO BE RELOCATED				N X V.
_	EX FD	EXISTING TO REMAIN				
	00	MOUNTED OVER COUNTER/SINK				
	PC	PHOTOCELL CONTROL				
	PP DI			Do not Hallex I	scale drawings. Re Engineering Ltd. be	eport any discrepancies to effore proceeding.
	RM	EXISTING TO BE REMOVED		This dra	awing must be sigr	ned and sealed by the
	WP	WEATHER PROOF		Engine for build	er prior to use in co ding permit.	onstruction or submission
	WG	WIREGUARD		All cons	struction shall be in	n accordance with latest
<u>NO</u> 1.	REI	FER TO MECHANICAL DRAWINGS FOR ALL		applica	ble Ontario regulat	ions.
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