

The following information changes the competitive process documents issued on January 30, 2025.

GENERAL INFORMATION

Item 1: Refer to revised Form of Tender in the Bidding System. The cash allowance has been revised.

Item 2: See 'Addendum No. 1' dated February 11, 2025 issued by the Consultant (10 pages)

Item 3: See 'MTE Addendum No. 1' dated February 10, 2025 issued by MTE (1 page)

End of Addendum #1

ARCHITECTURAL

Item 1 Clarification: The classroom alcove labelled as room 213A should be labelled as room 211A.

Item 2 Revision: in Section 01020 Cash Allowances, paragraph 2.13:
Revise: Cash Allowance amount to **Forty Thousand Dollars (\$40,000)**
ADD new item: 3. Data Cabling Supply & Installation.

MECHANICAL

Refer to attached Dynamis **Addendum M-1** dated February 10, 2025: 1 page + 5 drawing attachment.

ELECTRICAL

Refer to attached SEI **Addendum E-1** dated February 10, 2025: 1 page.

Question & Responses: Architectural Responses

Q2 What is the finish floor on Rooms 116 and 213

R2 Floor finishes in rooms 116 and 213 is porcelain tile as noted in the room finish schedule on drawing A1.35

Q3 What is the finish floor on Rooms 203A, 213A, 129 and 129A

R3 Floor finishes: room 213 is porcelain tile, rooms 129A, 203A and 211A is VCT, and 129 (elevator cab floor) is porcelain tile. Refer to finish schedule on A1.35.

Q8 According to detail 1/A2.01 Ground Floor Universal Washroom noted 'Space for adult-size change table' please confirm the change table is not part of the scope of work.

R8 The adult sized change table in not part of this project scope and tender.

Q9 Regarding the elevator scope. The spec lists an Xpress II unit, but the drawings show the unit rounding the corner to park. This would be an Artira if that is the case. Please verify the equipment so we can price correctly.

R9 In reference to Section 14423 Elevating Devices Stair Lift, under Part 2 Products, REVISE the Garaventa basis-of-design model from Xpress II to the Artira model.

Q13 Is cove base required at terrazzo patches?

R13 Correct, new cove bases, matching the existing cove base, are to be provided at the terrazzo patch locations and per note C2 on drawings A1.25 and A1.30

Q14 Can you please confirm that the data cabling is under the GC scope for this project. The N-8 note on E3.1 seems to indicate that the cabling work will be directly with HWDSB.

R14 Supply, installation and all wiring connections for the new data cabling is under this contract scope of work and to be covered under Cash Allowances. Refer to New Architectural Item 2 of this addendum.

Q15 Please clarify the following if required:- 2. Specifications are not provided for metal toilet partitions for 2 new stalls. 2. The hand dryer is shown in the elevation drawing for Barrier Free and Universal Washroom however no specs were provided.

R15 Refer to the attached electrical addendum regarding the hand dryer specification. See below for the metal toilet partitions specification:

Metal Toilet Partitions: Doors, stiles and panels: 25 mm thick and 0.76 mm thick steel sheet faces with honeycomb core and internal reinforcing. Barrier-free stall doors to be min. 810mm wide and swing out. Pilasters: 32 mm thick with 0.9 mm thick steel sheet facing. Height to suit. Floor mounted and overhead braced. Hardware: .67 institutional extra heavy duty, type 304 satin finish stainless steel, angle brackets, U-channels and spring-loaded, self-closing hinge run full height of panel and door; for emergency access, door lift from outside. Vandal resistant doorstops. All fasteners to be pin-head Torx screws. One piece shoe to conceal stile leveling device.

Acceptable Manufacturers: Bradley Corporation, Hadrian Manufacturing, ASI Group Watrous, Global Steel Products Corporation & General Storage Systems.

Q16 1. Specifications are not provided for metal toilet partitions for 2 new stalls. 2. The hand dryer is shown on elevation drawing for Barrier Free and Universal Washroom however no specs were provided.

R16 Refer to response R15.

Q17 Please provide the specifications for the metal toilet partitions for 2 new stalls.

R17 Refer to response R15.

Q18 The hand dryer is shown in the elevation drawing for Barrier Free and Universal Washroom however no specs are provided. Please provide.

R18 Refer to response R15.

Q19 Please clarify the question below. 1. Specifications are not provided for metal toilet partitions for 2 new stalls. 2. The hand dryer is shown in the elevation drawing for Barrier Free and Universal Washroom however no specs were provided. 3. Please provide base building approved roofing contractor, Fire Alarm, BAS & Sprinkler contractor detail.

R19 Refer to response R15.

Q20 The Please confirm how much asbestos plaster ceiling on the 2nd floor Corridor is required to be removed for installation of the new fire door assembly. Assuming 3' on each side of the door frame should suffice.

R20 Above the new fire rated partition in Corridor 210, allow for the removal of approximately 900mm of the existing plaster ceiling, across the full width of the corridor, to permit the installation and anchorage of the upper portion of the new stud wall assembly. Carry the rated gypsum board to underside of roof deck. Over this same extent of plaster ceiling, patch new ceiling using the gypsum board assembly described in construction note C1 on A1.40.

End of Addendum

ADDENDUM M-1

Date: February 10, 2025

DE Project#: 24-923

Client Project#: P02106

Project Name: **Parkdale Elementary School Accessibility Renovations**

Project Location: 139 Parkdale Avenue, Hamilton, ON

Attachments: Mechanical Drawings M101, 102, 300, 301, 302

This Addendum shall be read, coordinated, and interpreted with all other Documents issued for Tender on December 6, 2024. The following revisions supersede, or supplement previously issued documentation for the above noted project. Proponents shall acknowledge the receipt of this Addendum on the relevant submission forms; failure to do so may result in disqualification.

Clarifications:

1. **M101** – individual tags assigned to exhaust fans, added specification for hydronic piping.
2. **M102** – added detail for pipe support.
3. **M300** – added existing convectors in washrooms 108A and 108B for reference.
4. **M301** – added tag for EF-2; removed note#5 from detail 3.
5. **M302** – drawing added to the package to include for removal and reconfiguration of heating water mains and branch piping in crawl space to allow for installation of new elevator shaft and structural steel.

END OF ADDENDUM#1

HVAC SPECIFICATIONS

1. DUCTWORK
 - 1.1. DUCTWORK SHALL BE CONSTRUCTED TO ASHRAE/SMACNA STANDARDS.
 - 1.2. DUCT SIZES ARE LISTED ON DRAWINGS. ALL DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS.
 - 1.3. ALL FLEXIBLE DUCTWORK TO DIFFUSERS SHALL BE ALUMINUM SPIRAL, MAXIMUM LENGTH 5FT.
 - 1.4. SEAL ALL NEW LOW PRESSURE DUCTS (<2IN.WC.) AND LOW PRESSURE DUCT MODIFICATIONS TO SMACNA SEAL CLASS 'C' USING SEALANT OR ALUMINUM TAPE; OR A COMBINATION THEREOF.
 - 1.5. HIGH PRESSURE DUCTS (=>2IN.WC.) SHALL BE CONSTRUCTED OF FACTORY FABRICATED, SPIRAL WOUND, GALVANIZED STEEL WITH MATCHING FITTINGS AND SPECIALS. USE SPLIT TYPE JOINTS WITH SEALANT FOR DUCTS UP TO 36IN.
 - 1.6. SEAL ALL NEW HIGH PRESSURE DUCTS (=>2IN.WC.) AND HIGH PRESSURE DUCT MODIFICATIONS TO SMACNA SEAL CLASS 'A' USING SEALANT.
2. ELBOWS
 - 2.1. FOR LOW PRESSURE SYSTEM: ELBOWS SHALL HAVE RADIUS OF NOT LESS THAN DUCT WIDTH, ELBOWS WITH RADIUS LESS THAN DUCT WIDTH SHALL BE PROVIDED WITH TURNING VANES (DUCTMATE OR APPROVED EQUAL).
 - 2.2. FOR HIGH PRESSURE SYSTEM: SMOOTH RADIUS AND/OR 5-PIECE (FOR 90°), 3-PIECE (FOR 45°) WITH CENTRELINE RADIUS AT 1.5 X DIAMETER. USE 45° CONICAL TRANSITIONS FOR BRANCH CONNECTIONS.
3. BALANCING DAMPERS
 - 3.1. BALANCING DAMPERS SHALL BE MANUALLY OPERATED OPPOSED BLADE OR SPLITTER TYPE. SPLITTER DAMPERS SHALL BE COMPLETE WITH CONTROL ROD, PIVOT BRACKET AND BALL JOINT FITTING WITH LOCKING SETSCREW.
 - 3.2. SPLITTER DAMPERS SHALL BE INSTALLED ON ALL BRANCH DUCT CONNECTIONS (OR TAKE-OFFS) FROM DUCTS.
 - 3.3. OPPOSED BLADE DAMPERS SHALL BE USED FOR ALL DIFFUSER/GRILLE BALANCING DAMPERS.
4. FIRE RATED DAMPERS (FRD)
 - 4.1. FIRE DAMPER (FRD) SHALL BE CURTAIN TYPE WITH 135'F FUSIBLE LINK SUITABLE FOR HORIZONTAL OR VERTICAL INSTALLATION, ULC RATED (FIRE RATING TO MATCH OR EXCEED ENCLOSURE FIRE RESISTANCE RATING).
 - 4.2. FRD SHALL BE RUSKIN MODEL DIB02 STYLE B (OR EQUAL FOR DUCT HEIGHTS NOT EXCEEDING 305mm, AND DIB02 STYLE A (OR EQUAL) FOR DUCT HEIGHTS EXCEEDING 305mm.
 - 4.3. PROVIDE ACCESS PANELS AT EACH FRD, MIN SIZE SHALL BE 300x300mm.
5. BALANCING
 - 5.1. EMPLOY THE SERVICES OF AABC OR NEBB CERTIFIED BALANCING COMPANY TO BALANCE THE AIR SYSTEMS TO ACHIEVE THE AIRFLOW SHOWN. THE BALANCING COMPANY SHALL SUBMIT A COMPLETE REPORT. ACCEPTANCE OF BALANCING AND REPORT WILL BE SUBJECT TO ON SITE MEASUREMENT AND/OR VERIFICATION OF THE REPORT BY THE ENGINEER. NOTIFY ENGINEER OF ANY DISCREPANCIES GREATER THAN ±5% OF DESIGN VALUES PRIOR OF SUBMISSION OF REPORT.
 - 5.2.
6. FLEXIBLE CONNECTIONS
 - 6.1. FLEXIBLE CONNECTIONS TO BE FIRE RESISTANT NEOPRENE COATED GLASS FABRIC.
 - 6.2. INSTALL DUCT FLEXIBLE CONNECTIONS AT INLETS AND OUTLETS OF SUPPLY AND EXHAUST AIR UNITS AND WHERE INDICATED ON DRAWINGS.
7. GRILLES, REGISTERS AND DIFFUSERS
 - 7.1. PROVIDE ALL REGISTERS, GRILLES AND DIFFUSERS WITH BAKED ENAMEL FINISH TO MATCH ADJACENT FINISHES.
 - 7.1.1. TYPE A - 19mm BLADE SPACING, DOUBLE DEFLECTION SUPPLY AIR STEEL REGISTER C/W OPPOSED BLADE DAMPER, EH PRICE 620 OR EQUIVALENT.
 - 7.2. ALL DIFFUSER/GRILLE/REGISTER COLOURS SHALL BE CONFIRMED AT THE SHOP DRAWING STAGE BY THE ARCHITECT OR INTERIOR DESIGNER. PROVIDE SAMPLES OF FINISHES WITHIN SHOP DRAWING.
 - 7.3. PROVIDE REQUIRED DUCT TRANSITIONS, ADAPTERS AND OTHER FITTINGS TO COMPLETE CONNECTION BETWEEN DUCTWORK AND GRILLES.
 - 7.4. REFER TO DRAWINGS FOR SIZES AND LOCATIONS.
8. THERMAL INSULATION FOR DUCTS
 - 8.1. INSULATION THICKNESS AND PERFORMANCE SHALL MEET ASHRAE 90.1-2013 REQUIREMENTS.
 - 8.2. BLANKET OR RIGID THERMAL INSULATION ON INDOOR DUCTS SHALL BE PROVIDED AND INSTALLED AS FOLLOWS UNLESS OTHERWISE INDICATED:
 - 8.2.1. INSULATE FULL LENGTH OF FRESH AIR SUPPLY DUCTS.
 - 8.2.2. INSULATE FIRST 4.6m (15 FT) OF EXHAUST DUCTS FROM EXTERIOR WALL OR ROOF.
 - 8.2.3. INSULATE FULL LENGTH OF SUPPLY AND RETURN DUCTS THAT ARE ROUTED THROUGH A NON-CONDITIONED SPACE.
 - 8.2.4. THERMAL INSULATION IS NOT REQUIRED ON SUPPLY AND RETURN DUCTS CONFINED WITHIN A CONDITIONED SPACE (INCLUDING RETURN PLENUM CEILINGS).
 - 8.2.5. USE RIGID INSULATION AND DRYWALL TYPE CORNER BEADS IN AREAS WHERE INSULATION IS EASILY SUSCEPTIBLE TO DAMAGE.
 - 8.3. INSULATION SHALL BE FOIL FACED HAVING FLAME SPREAD RATING OF 25 OR LESS AND A SMOKE DEVELOPMENT CLASSIFICATION OF 50 OR LESS.
 - 8.4. THERMAL INSULATION SHALL BE 1-1/2" THICK BLANKET MINERAL FIBER OR 1" THICK RIGID MINERAL FIBERBOARD FOR WARM AIR DUCTS AND DUCTS BETWEEN OUTSIDE WALLS AND MIXING PLENUMS.
 - 8.5. THERMAL INSULATION FOR COLD AIR DUCTS SHALL BE 1-1/2" THICK RIGID INSULATION, OR 2" THICK BLANKET MINERAL FIBRE.
 - 8.6. VAPOUR-RETARDER MEMBRANE SHALL BE INSTALLED WITH INSULATION ON COLD, DUAL-TEMP AND FRESH AIR AIR SUPPLY DUCTS.
 - 8.7. ACCEPTABLE BLANKET MINERAL FIBER SHALL BE JOHNS MANVILLE MICROLITE DUCT WRAP TYPE 100 OR EQUIVALENT.
 - 8.8. ACCEPTABLE RIGID MINERAL FIBERBOARD SHALL BE JOHNS MANVILLE 800 SERIES SPAN-GLASS TYPE OR EQUIVALENT.
 - 8.9. SEAL ALL JOINTS WITH ULC LISTED SELF-ADHESIVE INSULATION TAPE FOR INDOOR DUCTS AND INSULATION.
 - 8.10. USE RIGID INSULATION AND DRYWALL TYPE CORNER BEADS IN AREAS WHERE INSULATION IS EASILY SUSCEPTIBLE TO DAMAGE.
 - 8.11. EXTERIOR DUCTWORK INSULATION SHALL BE COVERED BY A .04" THICK ALUMINUM JACKET (FORMING THE DOUBLE SKIN). ALL LONGITUDINAL SEAMS SHALL BE FORMED ALONG THE BOTTOM. ENSURE THAT ALUMINUM JACKET IS FASTENED WITH SECURE, WATERIGHT MECHANICAL CONNECTIONS. APPLY EXTERIOR GRADE SEALANT AT ALL SEAMS.
9. REFRIGERANT TUBING
 - 9.1. HARD COPPER TYPE ACR-B TO ASTM B280.
 - 9.2. FITTINGS SHALL BE BRAZED TYPE, TYPE ACR COPPER.
 - 9.3. JOINT SHALL BE COPPER-PHOSPHOROUS (95%CU-5%P) SOLDER AND NON-CORROSIVE FLUX.
 - 9.4. ALL REFRIGERANT PIPING, SPECIALTIES AND FITTINGS SHALL BE SUITABLE FOR PRESSURE RATING OF THE SYSTEM.
 - 9.5. PROVIDE STEEL PIPE SLEEVES SIZED FOR 6mm (1/4") CLEARANCE BETWEEN PIPE SLEEVE AND PIPE INSULATION.
 - 9.6. VALVES SHALL BE WELDED FULL FLOW BALL VALVE SUITABLE FOR REFRIGERANT SYSTEM, MINIMUM WORKING PRESSURE OF 4,500kPa (650PSIG).
 - 9.7. WHERE INDICATED ON DRAWINGS, PROPOSED PIPE ROUTING AND SIZES ARE FOR REFERENCE. REFRIGERANT PIPING SYSTEM SHALL BE DESIGNED BY LICENSED REFRIGERATION TECHNICIAN, SUBMIT SHOP DRAWING INDICATING EXACT PIPE ROUTING, INCLUDING OFFSETS AND VERTICAL RISERS, PIPE SIZES AND ALL FITTINGS, TRAPS, EXPANSION JOINTS AND SPECIALTIES SUPPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. COORDINATE PIPE ROUTING WITH EXISTING CEILING SERVICES AND ALL PROPOSED WORK PRIOR TO SUBMITTING SHOP DRAWING.
 - 9.8. CONTRACTOR TO PRESSURE AND LEAK TEST THE SYSTEM AND PROVIDE FULL REFRIGERANT CHARGE.
 - 9.9. MINIMUM INSULATION THICKNESS SHALL BE IN ACCORDANCE WITH LATEST EDITION OF ASHRAE STD. 90.1. ALL REFRIGERANT PIPING SHALL BE INSULATED WITH 3/4" FLEXIBLE CLOSED CELL ELASTOMERIC THERMAL INSULATION ("ARMAFLEX ARMACELL AP" OR APPROVED EQUIVALENT). OUTDOOR JACKETING SHALL ALUMINUM CLADDING, INSIDE JACKETING SHALL BE PVC TO MATCH CEILING FINISHES (BLACK OR WHITE).
 - 9.10. CONTRACTOR TO PROVIDE TSSA REFRIGERANT PIPING CERTIFICATE TO CSA B31.5 AND ODP TAGS.
10. CONTROLS
 - 10.1. ALL CONTROLS WORK SHALL BE COMPLETED BY THE BASE BUILDING CONTROLS CONTRACTOR - SIEMENS CANADA.
 - 10.2. ALL LOW VOLTAGE CONTROL WIRING (<50V) SHALL BE BY THE CONTROL DIVISION.
 - 10.3. ALL NEW EQUIPMENT CONTROL SHALL BE COMPATIBLE WITH THE EXISTING BASE BUILDING CONTROL SYSTEM.
 - 10.4. PROVIDE ALL REQUIRED CONTROL DEVICES INCLUDED BUT NOT LIMITED DAMPER C/W ACTUATORS, RELAYS, CONTROLLERS, WIRING, CONDUIT, PNEUMATIC/DDC SIGNAL CONVERTER AND ACCESSORIES FOR A FULLY FUNCTIONING SYSTEM.
 - 10.5. REFER TO DRAWINGS FOR PROPOSED LOCATION OF THE EQUIPMENT, COORDINATE FINAL LOCATIONS WITH MECHANICAL AND ELECTRICAL CONTRACTORS.
 - 10.6. TEST AND VERIFY ALL DEVICES LOCALLY AT THE DEVICE LEVEL AND AT THE BAS GRAPHICS.
 - 10.7. CONTROLS CONTRACTOR SCOPE OF WORK SHALL INCLUDE SUPPLY AND INSTALL OF: CONTROL WIRING OR PNEUMATIC TUBING, INTERLOCKS, SEQUENCING AND BASE BUILDING AUTOMATION SYSTEM TIE-INS (AS REQUIRED AND SPECIFIED).
 - 10.8. PROVIDE TRAINING TO FACILITY OPERATIONS ON ALL NEW AND EXISTING (WHERE REUSED) EQUIPMENT.

PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE	SPECIFICATION	PLUMBING SERVICES			
			DCW Ø(mm)	DHW Ø(mm)	SAN Ø(mm)	VENT Ø(mm)
WC-1	TOILET FLOOR MOUNTED	TOILET: AMERICAN STANDARD MODEL NO. 3451001 TOILET - MADERA FLOWISE, 15" RIM HEIGHT, FLOOR MOUNTED WITH FLOOR OUTLET, TOP SPUD, HIGH EFFICIENCY 4.2 LPF (1.1 GPF), WHITE FINISH VITREOUS CHINA, EVERCLEANANTIMICROBIAL SURFACE, ELONGATED BOWL, DIRECT-FED SIPHON JET ACTION, TWO (2) BOLT CAPS, 10" OR 12" ROUGH-IN - CONTRACTOR TO CONFIRM THE ROUGH-IN WITH THE EXISTING SITE CONDITION PRIOR TO ORDERING TOILETS. AMERICAN STANDARD #5905.100 EXTRA HEAVY DUTY OPEN FRONT SEAT LESS COVER. FLUSH VALVE: DELTA 81T201 MANUAL FLUSH VALVE - QUIET ACTION, EXPOSED DIAPHRAGM FLUSH VALVE, RIGHT HAND SUPPLY INSTALLATION, CHLORIMINE RESISTANT DIAPHRAGM, RENEWABLE SEAT, VACUUM BREAKER, COVER TUBE WITH STAINLESS STEEL WALL FLANGE, ADJUST TO 4.9LPF (1.27 GPF).	25	--	75	50
WC-2	TOILET FLOOR MOUNTED BARRIER FREE DESIGN	TOILET: AMERICAN STANDARD MODEL NO. 3641.001 TOILET - RIGHT WIDTH FLOWISE, 17" RIM HEIGHT, FLOOR MOUNTED WITH FLOOR OUTLET, TOP SPUD, HIGH EFFICIENCY 4.9 LPF (1.28 GPF), WHITE FINISH VITREOUS CHINA, TESTED TO SUPPORT STATIC LOAD OF 908 kg (2,000 lbs), TWO (2) BOLT CAPS, 10" OR 12" ROUGH-IN - CONTRACTOR TO CONFIRM THE ROUGH-IN WITH THE EXISTING SITE CONDITION PRIOR TO ORDERING TOILETS. AMERICAN STANDARD #5905.100 EXTRA HEAVY DUTY OPEN FRONT SEAT LESS COVER. FLUSH VALVE: DELTA 81T201 MANUAL FLUSH VALVE - QUIET ACTION, EXPOSED DIAPHRAGM FLUSH VALVE, RIGHT HAND SUPPLY INSTALLATION, CHLORIMINE RESISTANT DIAPHRAGM, RENEWABLE SEAT, VACUUM BREAKER, COVER TUBE WITH STAINLESS STEEL WALL FLANGE, ADJUST TO 4.9LPF (1.3 GPF).	25	--	75	50
L-1	LAVATORY WALL MOUNTED	SINK: AMERICAN STANDARD DECOURM SERIES MODEL NO. 9024.004EC - 20"x18" VITREOUS CHINA LAVATORY, WHITE FINISH, REAR OVERFLOW, 4" CENTRES, RECESSED SELF-DRAINING DECK WITH MINIMAL BACKSPASH, C/W WALL SUPPORT AND DRAIN GRID, ADA AND TAS COMPLIANT, SUPPLIES, 1-1/4" TRAP.HEAVY DUTY CAST BRASS CENTERSET. FAUCET: DELTA MODEL NO. 591-TFLGHMDF - HANDS FREE (TOUCHLESS) ACTIVATION, ALL METAL FAUCET CONSTRUCTION, INTERGATED FAUCET HOSE, 1.9 LPM (0.5 GPM) VANDAL RESISTANT LAMINAR OUTLET, 45 SECOND MAXIMUM RUNTIME, 102mm (4" CENTRES) WITH COVER PLATE WITH LOCKING MECHANISM, PLUG-IN POWER (PART NO. 061405A), TRANSFORMER, 600mm (24") EXTENSION CABLE.	15	15	40	40
L-2	LAVATORY WALL MOUNTED	SINK: AMERICAN STANDARD MURRO SERIES MODEL NO. 0954004EC - 22-1/16"x17-5/8" VITREOUS CHINA LAVATORY, WHITE FINISH, REAR OVERFLOW, 4" CENTRES, RECESSED SELF DRAINED DECK, CONCEALED ARM OR WALL SUPPORT, ACRYLIC SHROUD/KNEE GUARD (PART NO 0062.000), ADA AND TAS COMPLIANT, SUPPLIES, 1-1/4" TRAP, HEAVY DUTY CAST BRASS CENTERSET. FAUCET: DELTA MODEL NO. 591-TFLGHMDF - HANDS FREE (TOUCHLESS) ACTIVATION, ALL METAL FAUCET CONSTRUCTION, INTERGATED FAUCET HOSE, 1.9 LPM (0.5 GPM) VANDAL RESISTANT LAMINAR OUTLET, 45 SECOND MAXIMUM RUNTIME, 102mm (4" CENTRES) WITH COVER PLATE WITH LOCKING MECHANISM, PLUG-IN POWER (PART NO. 061405A), TRANSFORMER, 600mm (24") EXTENSION CABLE.	15	15	40	40

- COORDINATE FIXTURE FINISHES WITH ARCHITECT AT SHOP DRAWING STAGE

EXHAUST FAN SCHEDULE

TAG	SERVICE	LOCATION	MANUFACTURER	MODEL	PERFORMANCE		MOTOR			WEIGHT (KG)	NOTES
					AIR FLOW (L/s)	ESP (Pa)	W	RPM	POWER		
EF-1	VARIOUS, REFER TO DRAWINGS	CEILING	GREENHECK	SP-B80	33	62	18	900	120/1/60	9	C/W ISOLATION KIT, ALUMINUM GRILLE, INTEGRAL BACKDRAFT DAMPER, INTERLOCK OPERATION WITH LIGHT SWITCH
EF-2	VARIOUS, REFER TO DRAWINGS	CEILING	GREENHECK	SP-B80	33	62	18	900	120/1/60	9	C/W ISOLATION KIT, ALUMINUM GRILLE, INTEGRAL BACKDRAFT DAMPER, INTERLOCK OPERATION WITH LIGHT SWITCH

HEAT PUMP SYSTEM SCHEDULE

TAG	MANUF.	REFERENCE MODEL	QTY / TYPE	AIR FLOW LOW/MED/HIGH (CFM)	CAPACITY COOLING (BTU/HR)	SOUND LEVEL LOW/MED/HIGH (dB(A))	REFRIGERANT CONNECTION SIZE		CONDENSATE CONNECTION SIZE mm (IN)	ELECTRICAL SERVICE			DIMENSIONS WxLxH (IN)	WEIGHT (LB)	FILTER	ACCESSORIES
							LIQUID LINE (IN)	GAS LINE (IN)		V/PH/Hz	MCA	MOCp				
IDU-1	MITS AIR OR EQUAL.	MSY-GS09NA-U1	(1) INDOOR WALL MOUNTED	134-222-381	9,000	19-30-43	1/4	3/8	16 (5/8)	208/1/60	1	-	9 1/8 x 31 7/16 x 11 5/8	23	PP HONEYCOMB	- INDOOR UNIT C/W REMOTE WIRED THERMOSTAT. - C/W CONDENSATE PUMP, REFERENCE MODEL: DELTA PACK DP10U02UN23 - C/W WIRED CONTROLLER PAR-41MAA
COND-1	MITS AIR OR EQUAL.	MUY-GS09NA-U1	(1) ROOF MOUNTED	584-1,156-1,152	9,000	47	1/4	3/8	--	208/1/60	19	26	11 1/4 x 31 1/2 x 21 5/8	79	--	- ROOF MOUNTED - REFRIGERANT PIPING WITH ARMAFLEX INSULATION AND ALL ACCESSORIES PER MANUFACTURER SPECIFICATION.

1. UNIT SHALL BE INSTALLED BY CERTIFIED REFRIGERATION TECHNICIAN.
2. PROVIDE REFRIGERANT LINES, INSULATION AND REQUIRED ACCESSORIES PER MANUFACTURER INSTRUCTIONS.
3. REFRIGERANT LINES SCHEMATIC INCLUDING PIPE SIZES SHALL BE SUBMITTED AS PART OF THE SHOP DRAWING SUBMITTAL.
4. PROVIDE CONNECTION TO THE BAS FOR STATUS.

HVAC - HYDRONIC SPECIFICATIONS

1. GENERAL
 - 1.1. DRAWING INDICATE GENERAL PIPING DISTRIBUTION LAYOUTS AND DO NOT INCLUDE ALL OFFSETS, FITTINGS, VALVES, CONTRACTOR SHALL FIELD VERIFY FINAL ROUTING PRIOR TO ANY WORK AND INCLUDE FOR ALL REQUIRED FITTINGS.
 - 1.2. ALL PIPING SHALL BE C/W SUPPORTS, HANGERS, INSULATION, JACKETING AND IDENTIFICATION.
 - 1.3. ALL VALVES AND FITTINGS SHALL BE INSTALLED TO ALLOW FOR SERVICING WITHOUT REMOVAL OF ANY COMPONENTS OF PIPING SYSTEM OR ASSOCIATED EQUIPMENT. PROVIDE ACCESS PANELS FOR ALL CONCEALED VALVES, FITTINGS REQUIRING ACCESS FOR INSPECTION OR SERVICING.
 - 1.4. ALL VALVES AND FITTINGS UNDER 50mm (NPS 2) SHALL BE RATED FOR 600 PSI COLD WORKING PRESSURE (CWP).
 - 1.5. USE ONLY LONG RADIUS ELBOWS.
 2. PIPE
 - 2.1. STEEL PIPE TO ASTM A53/A53M, SCHEDULE 40, GRADE B.
 - 2.2. COPPER PIPE TO ASTM B88M-B6, TYPE K OR TYPE L HARD DRAWN COPPER TUBING.
 3. JOINTS
 - 3.1. 50mm (NPS 2 AND UNDER): SCREWED FITTING WITH PTFE TAPE.
 - 3.2. 65mm (NPS 2-1/2 AND OVER): WELDED FITTINGS AND FLANGES TO CSA W48.
 - 3.3. FLANGES: PLAN OR RAISED FACE, WELD NECK TO ANSI/AWWA C111/A21.11.
 - 3.4. FLANGE GASKETS: TO ANSI/AWWA C111/A21.11.
 - 3.5. BOLTS AND NUTS: TO ASME B18.2.1 AND ASME B18.2.2.
 - 5.1. COPPER JOINTS: SOLDER, TIN-ANTIMONY, 95.5, TO ASTM B32.
 - 5.2. NOT PERMITTED: GROOVED, PRO-PRESS FITTINGS AND JOINTS.
 6. FITTINGS - STEEL
 - 6.1. SCREWED FITTINGS: MALLEABLE IRON, TO ASME B16.3, CLASS 150.
 - 6.2. PIPE FLANGES AND FITTINGS: CAST IRON TO ASME B16.1, CLASS 125 OR STEEL TO ASME B16.5.
 - 6.3. BUTT WELD FITTINGS: STEEL TO ASME B16.9.
 - 6.4. UNIONS: MALLEABLE IRON TO ASTM A47/A47M AND ASME B16.3.
 7. FITTINGS - COPPER
 - 7.1. CAST BRONZE THREADED FITTINGS: TO ANSI/ASME B16.15.
 - 7.2. WROUGHT COPPER AND COPPER ALLOY SOLDER JOINT PRESSURE FITTINGS: TO ANSI/ASME B16.22/.
 - 7.3. CAST IRON THREADED FITTINGS: TO ANSI/ASME B16.4.
 - 7.4. CAST COPPER ALLOY SOLDER JOINT PRESSURE FITTINGS: TO ANSI B16.18.
 8. VALVES
 - 8.1. ALL VALVES SHALL BE OF SAME MANUFACTURER.
 - 8.2. GATE VALVES
 - 8.2.1. TO MSS-SP-70 AND MSS-SO-80
 - 8.2.2. 50mm (NPS 2) AND UNDER: CLASS 125, RISING STEM, WEDGE DISC.
 - 8.2.3. 65mm (NPS 2-1/2) AND OVER: CLASS 125, 1,400KPA (200 PSI) CWP, OUTSIDE SCREW AND YOKE (OS&Y), RISING STEM, SOLID WEDGE DISC TO ASTM B62 UP TO 75MM (NPS 3) AND CAST IRON WITH BRONZE DISC RING FOR 100MM (NPS 4) AND LARGER, DISC SECURED TO STEM THROUGH INTEGRAL FORGED CONNECTION, BRONZE TRIM, RENEWABLE BRONZE SEAT RINGS SCREWED INTO BODY, NICKEL PLATED STEEL STEM, INTEGRAL SEAT RINGS.
 - 8.2.4. STANDARD OF ACCEPTANCE: KITS 72, TOYO 421.
 - 8.3. BUTTERFLY VALVES
 - 8.3.1. TO MSS-SP-67.
 - 8.3.2. CLASS 125, 1,400KPA (200 PSI) CWP, OUTSIDE SCREW AND YOKE (OS&Y), RISING STEM, SOLID WEDGE DISC TO ASTM B62 UP TO 75MM (NPS 3) AND CAST IRON WITH BRONZE DISC RING FOR 100MM (NPS 4) AND LARGER, DISC SECURED TO STEM THROUGH INTEGRAL FORGED CONNECTION, BRONZE TRIM, RENEWABLE BRONZE SEAT RINGS SCREWED INTO BODY, NICKEL PLATED STEEL STEM, INTEGRAL SEAT RINGS.
 - 8.3.3. STANDARD OF ACCEPTANCE: KITZ 6122EL, DEMCO, NIBCO LD-2100 OR BRAY 31H-119.
9. PIPING THERMAL INSULATION
 - 9.1. REMOVE INSULATION ON ENTIRE HEATING WATER PIPING DISTRIBUTION, CLEAN ALL PIPE SURFACES AND PROVIDE NEW IN ACCORDANCE WITH THESE SPECIFICATIONS.
 - 9.2. UNLESS OTHERWISE INDICATED, INSULATION SHALL BE MINERAL CLASS FIBER WITH FACTORY APPLIED VAPOUR BARRIER JACKETING. INSULATION SHALL BE JOHNS MANVILLE MICRO-LOK HP OR EQUIVALENT.
 - 9.3. THERMAL CONDUCTIVITY: 0.034 W/m °C AT 24°C MEAN TEMPERATURE.
 - 9.4. MAXIMUM FLAME SPREAD OF 25 AND MAXIMUM SMOKE DEVELOPMENT RATING OF 50 IN ACCORDANCE WITH CAN/ULC-S102.
 - 9.5. JACKETING:
 - 9.5.1. INDOORS: SINGLE PIECE MOULDED AND PRE-FORMED PVC, COLOR TO MATCH ADJACENT FINISHES (WHITE OR BLACK) IN EACH AREA.
 - 9.5.2. OUTDOORS: 0.5mm THICK ALUMINUM TO ASTM B209, CORRUGATED FINISH OR 0.25mm THICK TYPE 304 STAINLESS STEEL.
 - 9.6. INSULATION THICKNESS - AT MINIMUM COMPLY WITH ASHRAE 90.1 REQUIREMENTS AND AS FOLLOWS:
 - 9.6.1. HEATING WATER UNDER 38mm (NPS 1-1/2): 38mm (1 1/2")
 - 9.6.2. HEATING WATER 38mm (NPS 1-1/2) AND ABOVE: 50mm (2")
 - 9.7. PROVIDE REMOVABLE INSULATION ON ALL FITTINGS REQUIRING SERVICING OR ADJUSTMENT (STRAINERS, CIRCUIT BALANCING VALVES, ETC).
10. PIPE HANGERS AND SUPPORTS
 - 10.1. ALL PIPING SHALL BE INDEPENDENTLY SUPPORTED FROM STRUCTURE.
 - 10.2. HANGER/SUPPORT SPACING SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND DETAILS.
 - 10.3. PIPE HANGERS SHALL ADJUSTABLE CLEVIS TYPE OR EQUIVALENT.
 - 10.4. PROVIDE INSULATION SHIELD AND HIGH DENSITY INSULATION (CALCIUM CHLORIDE OR EQUIVALENT) FOR ALL INSULATED PIPING.



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2	ISSUED FOR PERMIT	2024-11-14
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139 PARKDALE AVENUE HAMILTON, ONTARIO

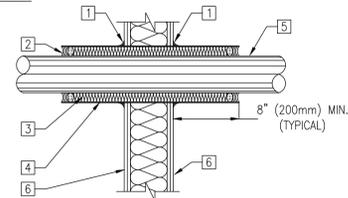
MECHANICAL SCHEDULES

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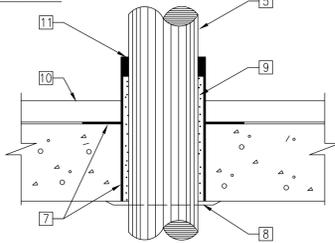
SCALE: AS NOTED	PROJECT: 24-293
DATE: NOV-2024	
DRAWN RG	DRAWING
CHECKED DB	M101
PRINT DATE	

DETAIL 1 – FIRE STOP NOT TO SCALE

WALL PENETRATION

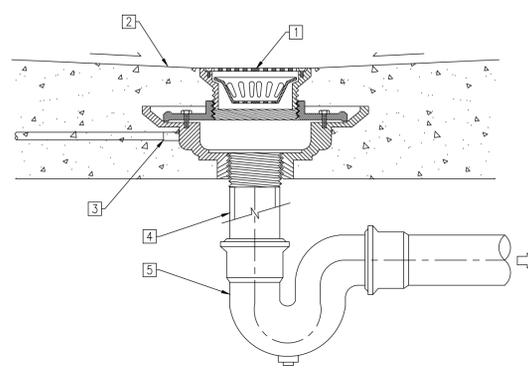


FLOOR PENETRATION



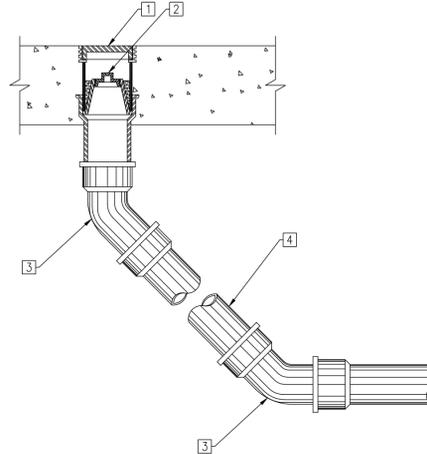
- 1 SEALANT. CONNECT TO STUD WITH "L" BRACKET IF NECESSARY (BOTH SIDES)
- 2 BACKER ROD & SEALANT
- 3 13 (1/2") RIGID FIBERGLASS INSULATION
- 4 SHEET METAL SLEEVE (SCHEDULE 10 STEEL)
- 5 DUCT OR PIPE
- 6 WALL (TYPE VARIES - FOR CAVITY WALL USE SPLIT SLEEVE)
- 7 PIPE SLEEVE WITH ANCHOR RING
- 8 PIPE ESCUTCHEON PLATE
- 9 FIRE-STOPPING MATERIAL
- 10 FINISHED FLOOR
- 11 NON-HARDENING SEALANT

DETAIL 2 – FLOOR DRAIN NOT TO SCALE



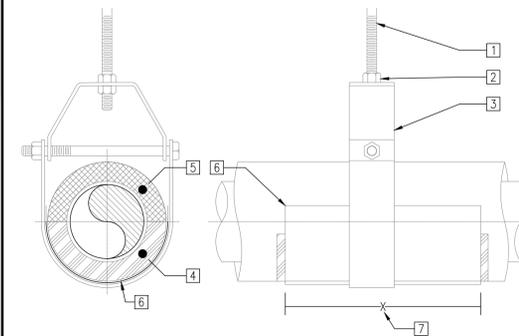
- 1 ADJUSTABLE STRAINER
- 2 FINISHED FLOOR, SLOPING AND WATER PROOFING AS SPECIFIED
- 3 TRAP SEAL PRIMER CONNECTION, PROVIDE TRAP SEAL PRIMER STATION C/W PIPING
- 4 CAST IRON CONNECTION TO SUIT P-TRAP SIZE
- 5 CAST IRON P-TRAP C/W CLEANING EYE

DETAIL 3 – FLOOR CLEANOUT NOT TO SCALE



- 1 HEAVY DUTY CLEAN COVER C/W FRAME
- 2 COUNTER SUNK CLEANOUT PLUG
- 3 45 DEG CAST IRON ELBOW
- 4 CAST IRON PIPE

DETAIL 8 – PIPE HANGER NOT TO SCALE



- 1 THREADED HANGER ROD
- 2 LOCK NUTS
- 3 HEAVY DUTY CLEVIS HANGER, SIZE FOR OUTSIDE PIPE INSULATION.
- 4 HIGH-DENSITY CALCIUM SILICATE INSULATION INSTALLED ON PIPE BOTTOM, TO MATCH OR EXCEED LENGTH OF SADDLE.
- 5 PIPE INSULATION C/W JACKETING AND INSULATION AS SPECIFIED
- 6 GALVANIZED PIPE SADDLE, MINIMUM 16 GAUGE THICKNESS. REQUIRED ONLY FOR THE INSULATED PIPE.
- 7 SADDLE SHALL EXTEND MINIMUM 2 PIPE INSULATION DIAMETERS

HANGER ROD SIZES

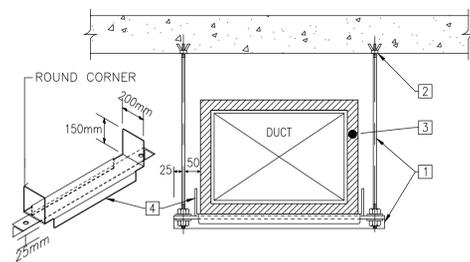
PIPE SIZES	UP TO 50	65-80	100-125	150-300
HANGER ROD DIAMETER	10#	15#	18#	22#

MAXIMUM HANGER SPACING(*)

NPS (mm)	25	32	40	50	65	80	100	125	150	200	250	300
SPACING (m)	2	2	2.5	3	3	3.5	4	4.5	5	5.5	6.5	7

(*) THE SPACING APPLY ONLY FOR THE WELDED AND FLANGED PIPING. FOR THE GROOVED PIPING (WHERE PERMITTED BY SPECIFICATIONS), EACH PIPE SECTION SHALL BE SUPPORTED INDEPENDENTLY BEFORE GROOVE CONNECTORS ARE INSTALLED.

DETAIL 4 – DUCT HANGER NOT TO SCALE



- 1 PROVIDE THREADED RODS AND ANGLE SUPPORT AS FOLLOWS

DUCT SIZE (mm)	ANGLE SIZE (MM)	ROD SIZE (MM)
UP TO 750	25 X 25 X 3	6
751 TO 1500	40 X 40 X 3	10
1501 TO 2100	50 X 50 X 3	10
2101 TO 2400	50 X 50 X 5	10
2401 AND OVER	50 X 50 X 6	10

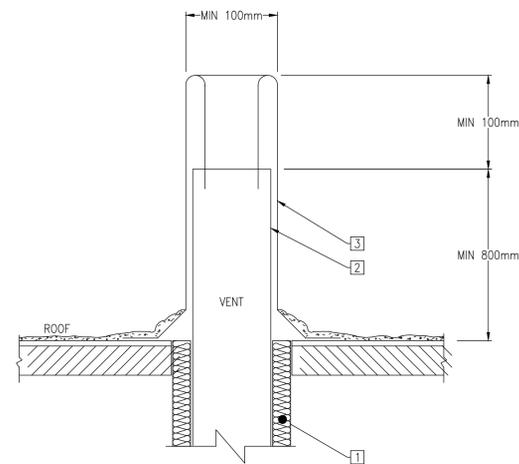
- 2 SUPPORT UPPER HANGER FROM STRUCTURE AS FOLLOWS:

CONCRETE:	MANUFACTURED CONCRETE INSERTS
STEEL JOIST:	MANUFACTURED JOIST CLAMP
STEEL BEAM:	MANUFACTURED BEAM CLAMP

- 3 DUCT INSULATION, WHERE SPECIFIED.
- 4 PROVIDE 20 GAUGE GALVANIZED STEEL SUPPORT BELOW ALL INSULATED DUCTWORK.

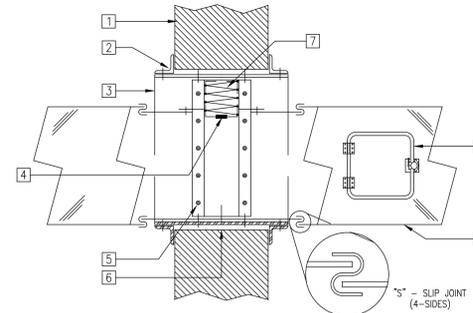
GENERAL NOTES:
 1. ALL STEEL SUPPORTS SHALL BE PAINTED WITH ZINC RICH PAINT. PROVIDE PAINT TO MATCH CEILING FINISHES (FINAL FINISH TO BE APPROVED BY CONSULTANT OR ARCHITECT) IN ALL EXPOSED AREAS.
 2. HANGER SPACING SHALL BE IN ACCORDANCE WITH SMACNA AND AT MINIMUM EVERY 3m FOR DUCTS WIDTHS UNDER 1,500mm AND EVERY 2.5m FOR DUCTS WIDTHS ABOVE 1,500mm.

DETAIL 5 – PLUMBING VENT NOT TO SCALE



- 1 INSULATE FIRST 3m (10FT) OF VENT PIPE
- 2 VENT STACK, SIZE AND QUANTITY TO COMPLY WITH OBC PART 7
- 3 FLASHING BY BASEBUILDING ROOFING CONTRACTOR

DETAIL 7 – DUCT PENETRATION C/W FIRE DAMPER NOT TO SCALE



- 1 WALL/FIRE SEPARATION
- 2 STEEL RETAINING ANGLES 38x38x3mm; ALL AROUND 4-SIDES. FASTEN TO COLLAR ONLY.
- 3 COLLAR
- 4 FUSIBLE LINK (71°C)
- 5 FIRE DAMPER SECURED TO COLLAR ALL AROUND.
- 6 MAINTAIN MIN. 6mm EXPANSION CLEARANCE ALL AROUND (SEE NOTE #3)
- 7 TYP. CURTAIN; GALVANIZED STEEL INTERLOCKING BLADES
- 8 AIR TIGHT ACCESS DOOR, c/w PIANO HINGE & SASH LOCK. MOUNT ON SIDE OR BOTTOM OF DUCT
- 9 DUCT THROUGH FIRE SEPARATION WALL.

NOTES:
 1. FRAME, BLADES, AND COLLAR SHALL BE Min. 14 Gs (2.0mm thk) GALV. STEEL CONSTRUCTION.
 2. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR THE INSTALLATION OF FIRE DAMPERS.
 3. STANDARD OF ACCEPTANCE: RUSKIN MANUFACTURING, OR NAILOR INDUSTRIES INC.
 4. DO NOT SEAL AROUND RETAINING ANGLES w FIRESTOP CAULKS and/or PUTTYS. DO NOT FILL ANNULAR SPACE (EX-PANSION VOID) WITH FIRESTOP MATERIAL.
 5. HORIZONTAL INSTALLATION SIMILAR, c/w STAINLESS STEEL CLOSURE SPRING.
 6. SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO INSTALLATION.



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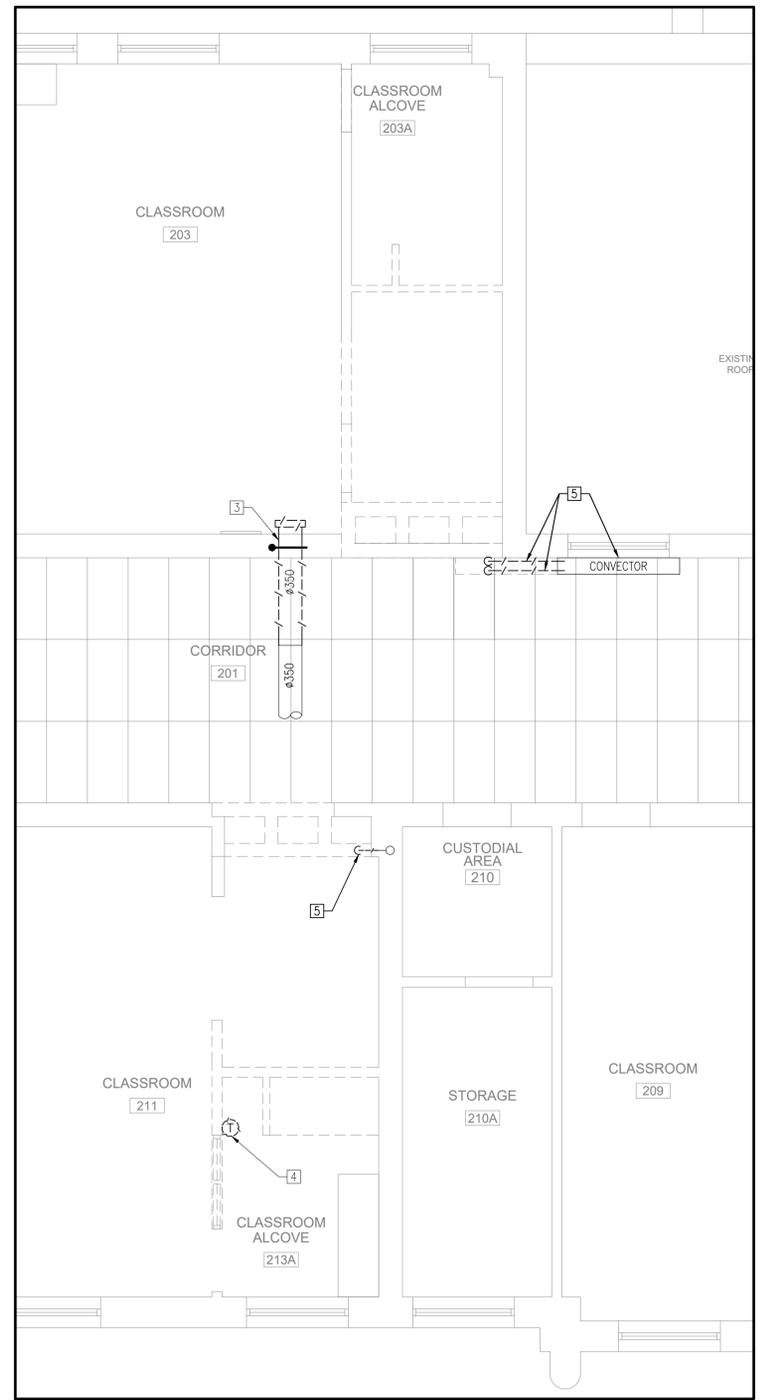
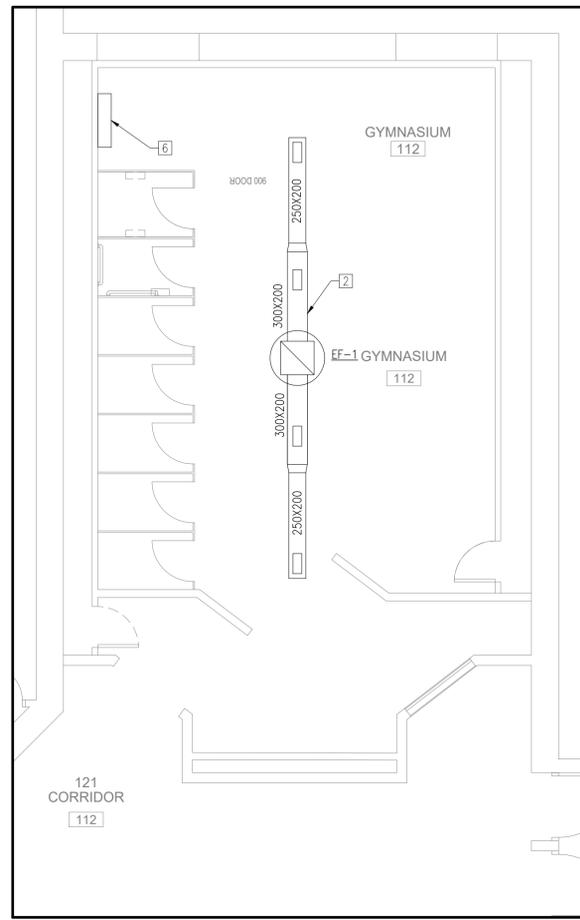
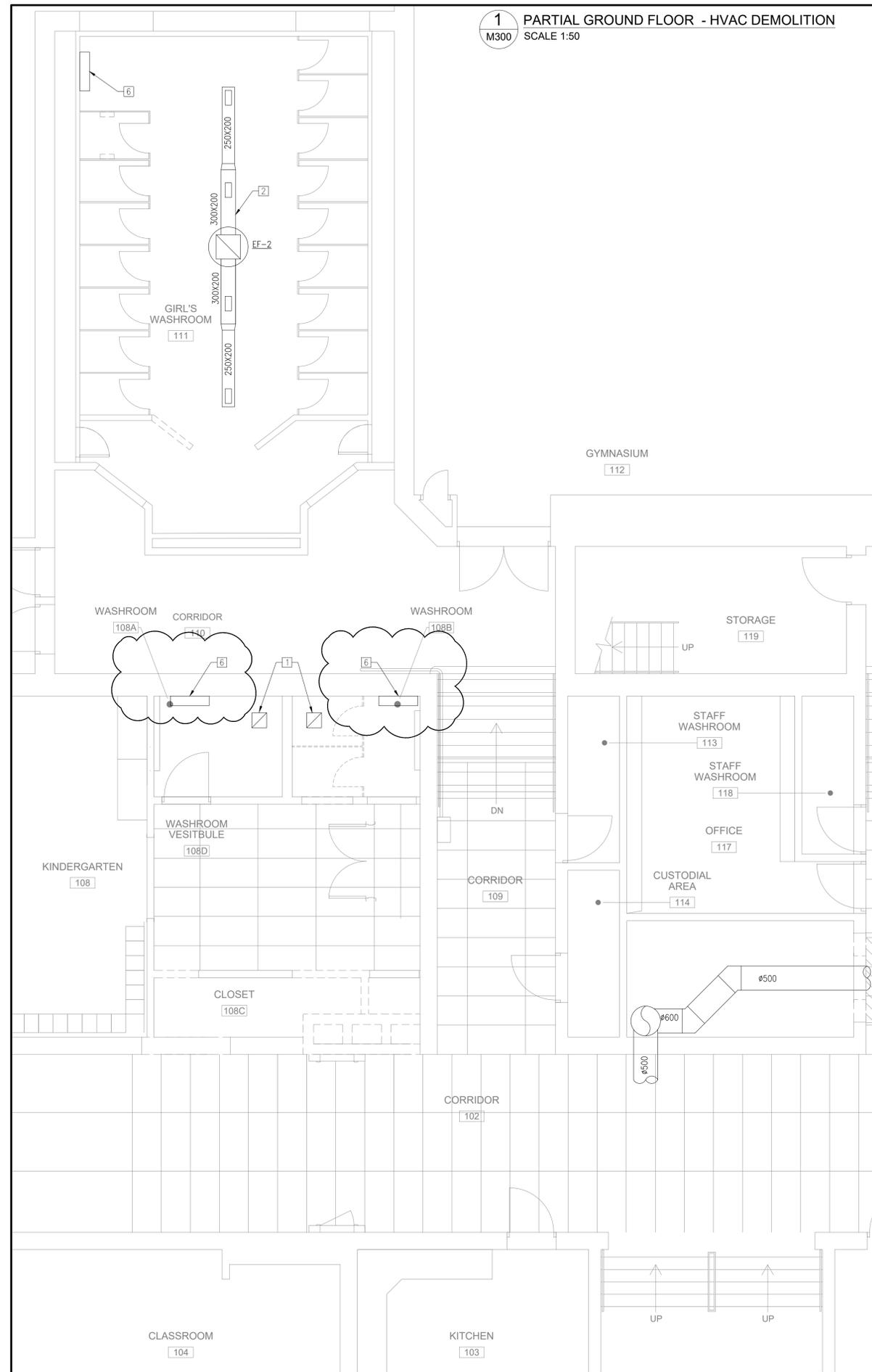
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MECHANICAL
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PRINT DATE	



- REFERENCE NOTES**
- 1 EXISTING EXHAUST FAN IN WASHROOM TO REMAIN, TEST AND VERIFY OPERATION.
 - 2 EXISTING EXHAUST AIR DUCTWORK UP TO ROOF MOUNTED EXHAUST FAN TO REMAIN, FOR REFERENCE ONLY. TEST AND VERIFY OPERATION OF THE EXHAUST FAN.
 - 3 DEMOLISH SECTION OF THE EXISTING SUPPLY AIR DUCT C/W FIRE&SMOKE DAMPER. FIELD VERIFY SIZE OF THE EXISTING DUCT AND GRILLE PRIOR TO DEMOLITION WORK.
 - 4 EXISTING THERMOSTAT TO BE RELOCATED.
 - 5 EXISTING CONVECTOR, CUT EXISTING #20 PIPING AT ENCLOSURE AND REMOVE BRANCH PIPING AT FLOOR LEVEL DOWN TO PIPING IN CEILING OF FIRST FLOOR TO CLEAR WALL AREA FOR NEW ELEVATOR ENTRANCE. PROVIDE PIPE FREEZING TO ISOLATE BRANCH PIPING. REMOVE EXISTING ISOLATION VALVE (IF PRESENT) AND PROVIDE NEW ISOLATION VALVE ON BRANCH PIPING. FIELD VERIFY PIPE SIZING AND ROUTING ON SITE. ALLOW FOR REMOVAL AND REINSTATEMENT OF ACOUSTIC CEILING PANELS ON 1ST FLOOR, AT THE FLOOR OPENINGS.
 - 6 EXISTING CONVECTOR TO REMAIN, PROTECT ENCLOSURE AND PIPING DURING RENOVATION WORK.



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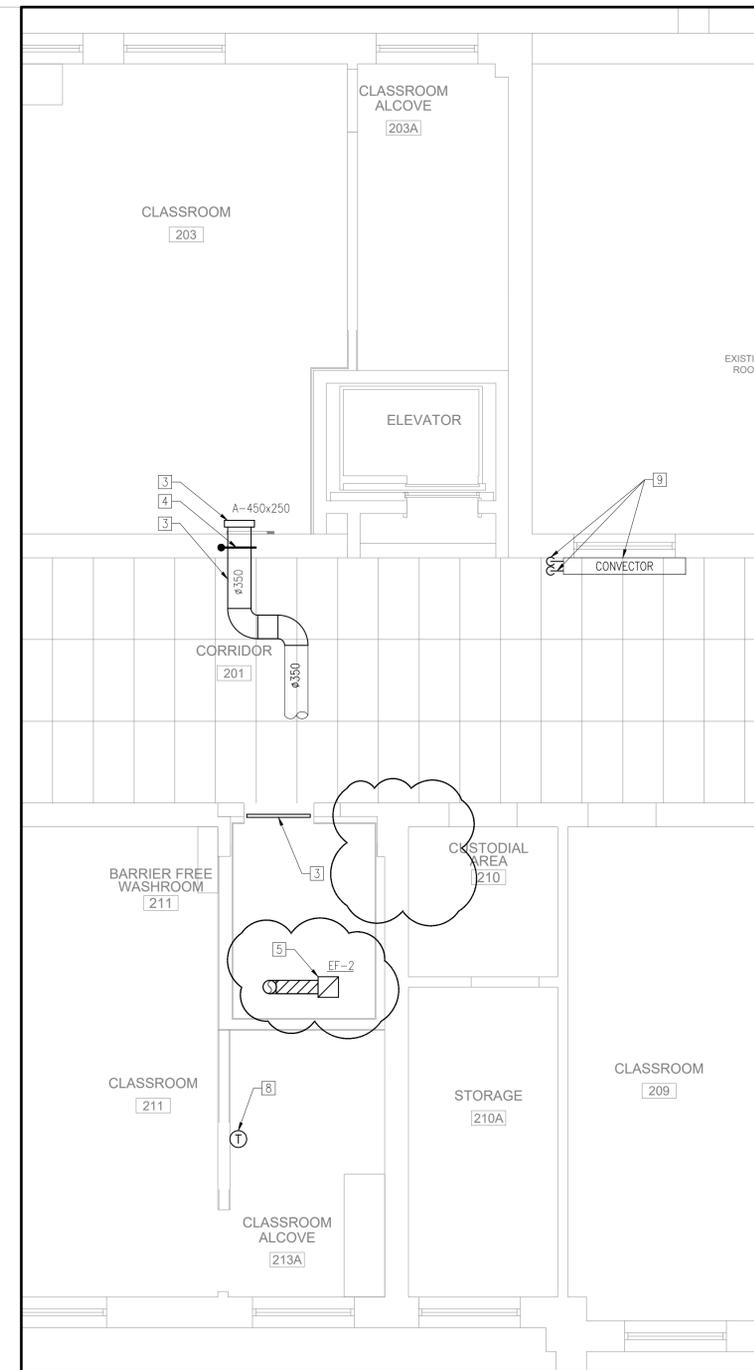
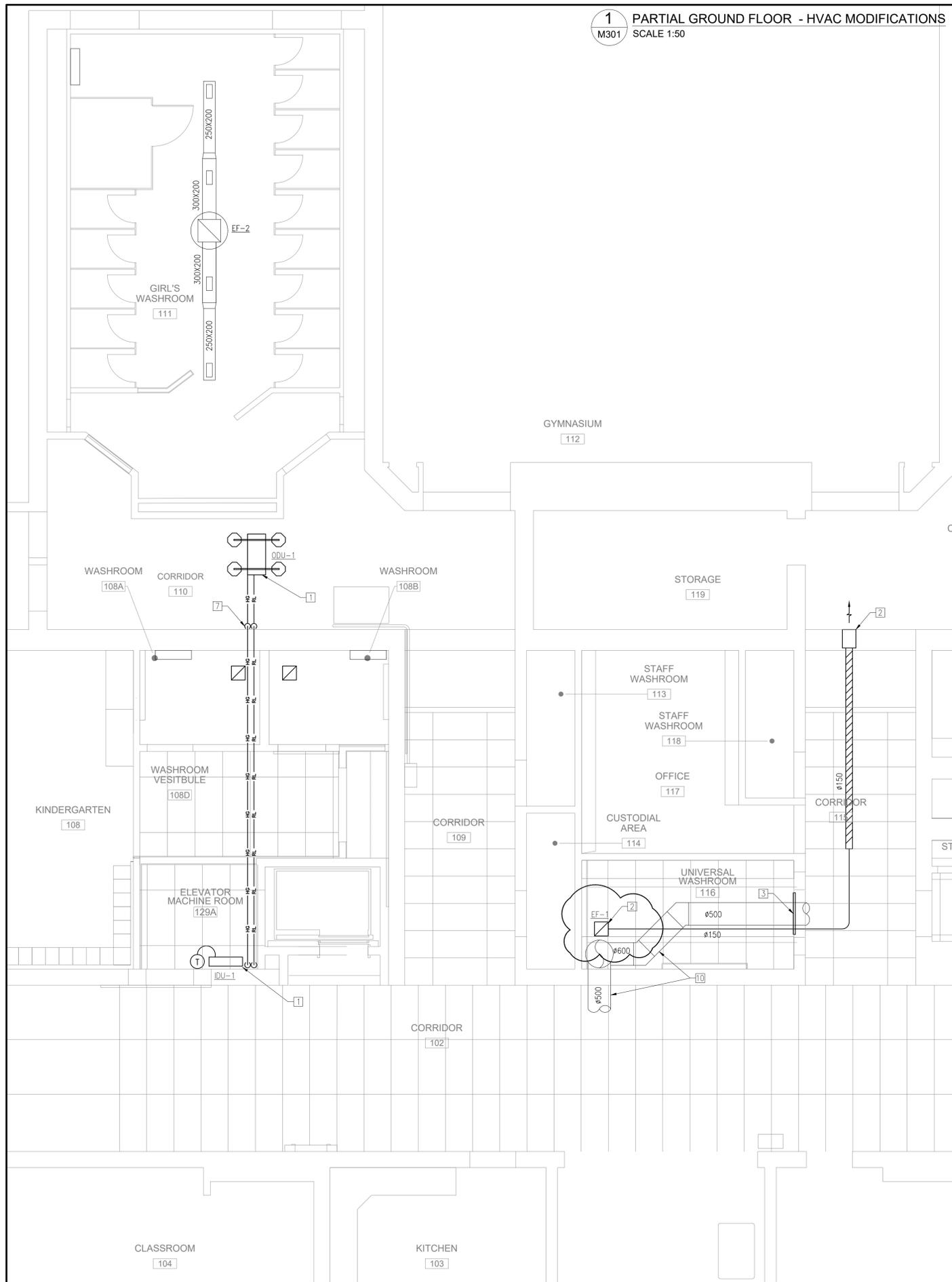
PARTIAL
GROUND & SECOND FLOOR
HVAC - MODIFICATIONS

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SCALE: AS NOTED	PROJECT: 24-293
DATE: NOV-2024	DRAWING M300
DRAWN RG	CHECKED DB
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1 PARTIAL GROUND FLOOR - HVAC MODIFICATIONS
M301 SCALE 1:50



3 PARTIAL SECOND FLOOR - HVAC MODIFICATIONS
M301 SCALE 1:50

REFERENCE NOTES

- 1 PROVIDE NEW SPLIT UNIT INCLUDING INDOOR UNIT IDU-1 ON THE WALL AND OUTDOOR UNIT ODU-2 AT LOW ROOF LEVEL, REFER TO SCHEDULES FOR PERFORMANCE. PROVIDE REFRIGERANT PIPING C/W CLOSED CELL INSULATION 'ARMALFLEX AP' OR EQUIVALENT AND WHITE PVC JACKETING IN ALL EXPOSED AREAS, ACCESSORIES IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. COORDINATE FINAL PIPE ROUTING ON SITE. ALL REFRIGERATION PIPING SHALL BE SIZED BY A LICENSED REFRIGERATION TECHNICIAN, PROVIDE SUBMITTAL FOR ENGINEER'S REVIEW PRIOR TO ANY WORK.
- 2 PROVIDE NEW EXHAUST FAN C/W DUCTWORK DISTRIBUTION AS INDICATED, REFER TO SCHEDULES FOR PERFORMANCE. THERMALLY INSULATE FIRST 4m OF EXHAUST AIR DUCTWORK FROM EXTERIOR WALL, TERMINATE WITH INSULATED WALLBOX WITH INTEGRAL BACKDRAFT DAMPER. FAN SHALL BE SUPPORTED FROM CEILING WITH ISOLATION HANGERS AND FLEXIBLE CONNECTOR AT FAN OUTLET.
- 3 PROVIDE 20mm DOOR UNDERCUT.
- 4 PROVIDE FIRE AND SMOKE DAMPER AT WALL PENETRATION, MODIFY EXISTING WALL OPENING TO SUIT, PROVIDE ALL REQUIRED FRAMING, ACCESS DOORS, ETC. IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND DETAILS. COORDINATE INSTALLATION WITH DIVISION 26 FOR FIRE ALARM INTEGRATION.
- 5 PROVIDE NEW EXHAUST FAN C/W 150mm DUCT THROUGH ROOF AND TERMINATE C/W GOOSENECK AND BIRD SCREEN AT MIN 600mm ABOVE ROOF LEVEL. INSULATE INDOOR DUCTWORK WITH 25mm THERMAL INSULATION WITH VAPOUR BARRIER. PROVIDE ROOF OPENING, REPAIR ROOFING MEMBRANE AND PROVIDE COUNTER FLASHING/WATERPROOFING AROUND DUCT PENETRATION. FAN SHALL BE SUPPORTED FROM ROOF STRUCTURE WITH ISOLATION HANGERS AND FLEXIBLE CONNECTOR AT FAN OUTLET.
- 6 600mm CONDENSING UNIT SUPPORT.
- 7 DROP REFRIGERANT PIPING DOWN TO LOW ROOF LEVEL FLOOR, PROVIDE REQUIRED OPENINGS, CAULKING AND SECURE ALL HORIZONTAL AND VERTICAL PIPING.
- 8 RELOCATE EXISTING THERMOSTAT, PROVIDE NEW WIRING TO SUIT.
- 9 PROVIDE NEW #20 HEATING WATER SUPPLY/RETURN PIPING FROM EXISTING CONVECTOR DOWN TO MAIN HEATING DISTRIBUTION IN 1ST FLOOR CEILING SPACE. PROVIDE CORING, NEW FLOOR OPENINGS, OFFSET PIPING AS REQUIRED.
- 10 EXISTING DUCTWORK DISTRIBUTION IN CEILING SPACE TO REMAIN.



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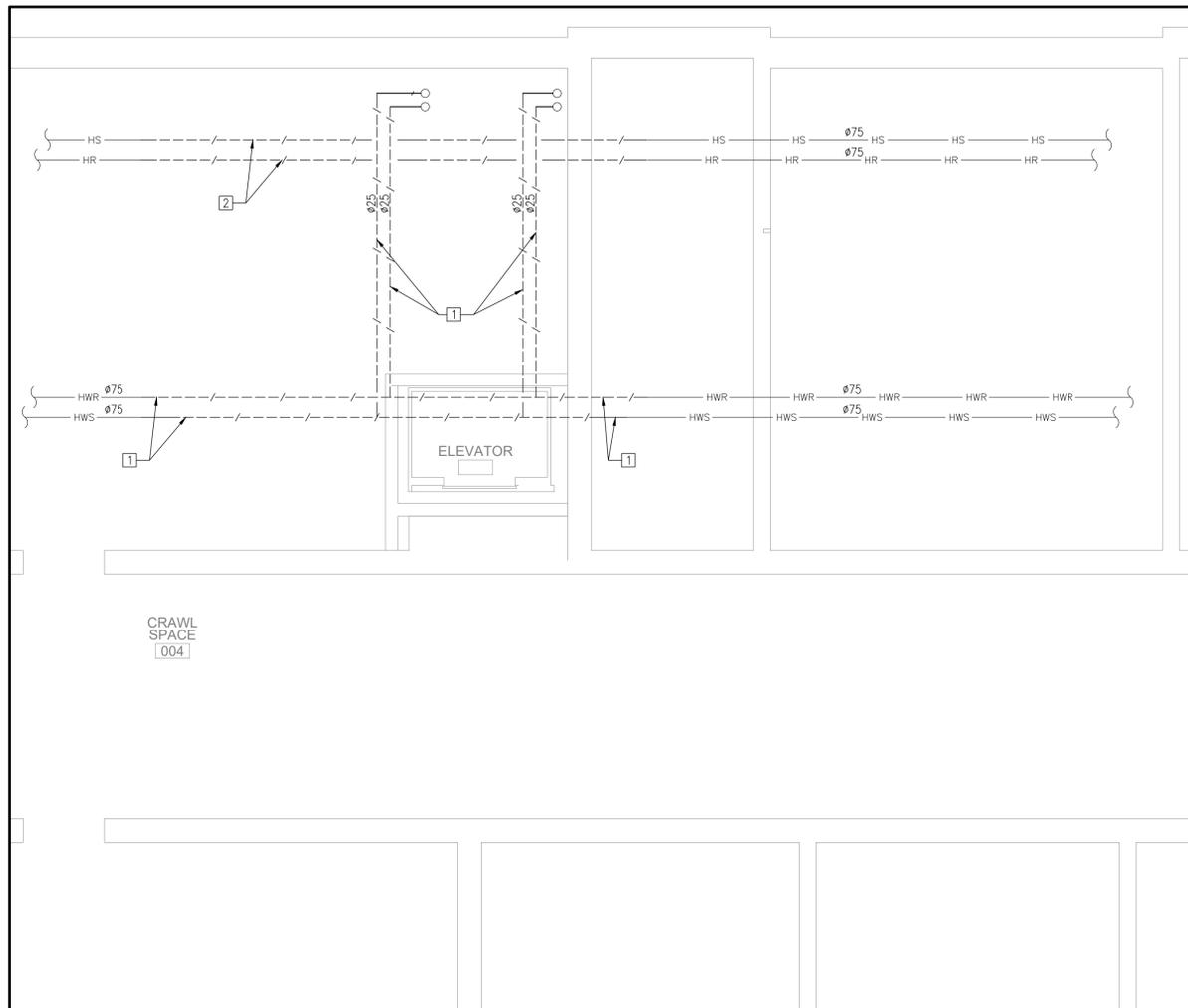
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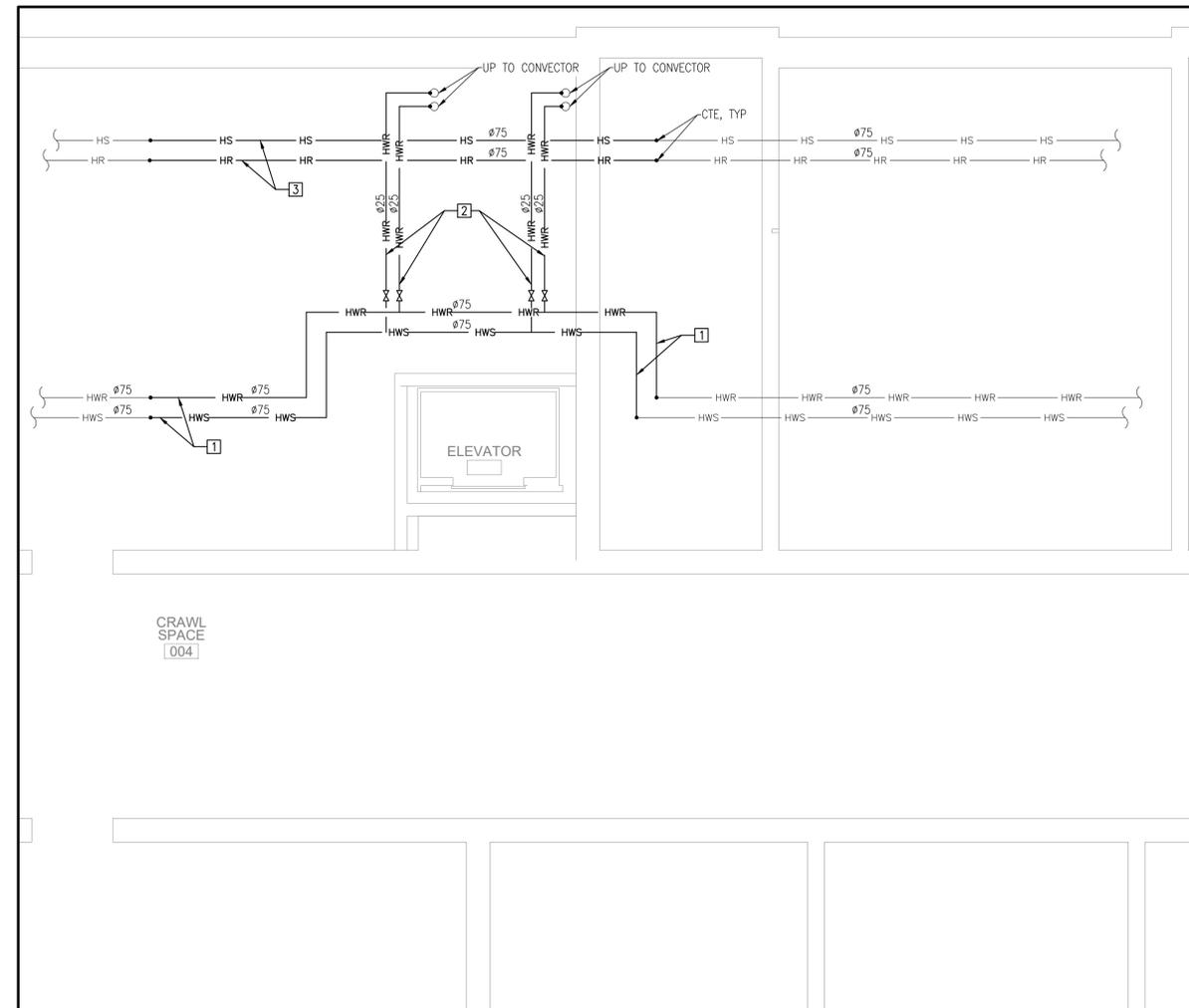


1 PARTIAL CRAWL SPACE - PLUMBING DEMOLITION PLAN
M302 SCALE 1:50

REFERENCE NOTES

1 DEMOLISH SECTION OF EXISTING #75 HEATING WATER DISTRIBUTION AND BRANCH PIPING IN CEILING OF THE CRAWL SPACE AS INDICATED, CONTRACTOR TO FIELD VERIFY EXACT ROUTING AND SIZING. ALLOW FOR SYSTEM SHUT DOWN, DRAIN, REFILL OR PIPE FREEZING TO COMPLETE THE WORK.

2 DEMOLISH SECTION OF EXISTING #75 HEAT PUMP LOOP IN CEILING OF THE CRAWL SPACE AS INDICATED, CONTRACTOR TO FIELD VERIFY EXACT ROUTING AND SIZING. ALLOW FOR SYSTEM SHUT DOWN, DRAIN, REFILL OR PIPE FREEZING TO COMPLETE THE WORK.



2 PARTIAL CRAWL SPACE - NEW PLUMBING
M302 SCALE 1:50

REFERENCE NOTES

1 PROVIDE HEATING WATER PIPE OFFSETS AS INDICATED TO CLEAR NEW ELEVATOR SHAFT AND ALLOW FOR INSTALLATION OF NEW STRUCTURAL STEEL, COORDINATE PIPE ROUTING WITH THE NEW STRUCTURAL BEAMS IN CEILING SPACE. PROVIDE PIPE SUPPORTS, THERMAL INSULATION, JACKETING AND IDENTIFICATION ON ALL PIPING.

2 PROVIDE NEW HEATING WATER BRANCH CONNECTIONS TO CONVECTORS ON GROUND FLOOR AS INDICATED, PROVIDE NEW ISOLATION VALVES ON EACH BRANCH CONNECTION. PROVIDE ALL REQUIRED PIPE OFFSETS. COORDINATE ROUTING WITH THE STRUCTURAL BEAM IN CEILING SPACE.

3 PROVIDE NEW HEAT PUMP LOOP PIPING AS INDICATED TO ALLOW FOR INSTALLATION OF NEW STRUCTURAL STEEL, COORDINATE PIPE ROUTING WITH STRUCTURAL DRAWINGS. PROVIDE PIPE SUPPORTS, THERMAL INSULATION, JACKETING AND IDENTIFICATION ON ALL PIPING.



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PARTIAL CRAWL SPACE PLAN
PLUMBING
NEW AND DEMOLITION

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SCALE: AS NOTED	PROJECT: 24-293
DATE: NOV-2024	
DRAWN RG	DRAWING M302
CHECKED DB	
PRINT DATE	

ELECTRICAL ADDENDUM

TO:
Walter Paolone, OAA, MRAIC

ADDENDUM #
E-1

COMPANY:
GRGURIC ARCHITECTS
INCORPORATED
28 King Street East, Unit B
Stoney Creek, Ontario L8G 1J8

DATE
February 10, 2025

PROJECT #
24027

PROJECT NAME:
HWDSB Parkdale ES Accessibility

THIS ADDENDUM IS ISSUED PRIOR TO TENDER CLOSING TO PROVIDE CERTAIN REVISIONS TO THE WORKS. REVISIONS COVERED BY THIS ADDENDUM SHALL BE IN ACCORDANCE WITH SPECIFICATION REQUIREMENTS AND CONTRACT DOCUMENTS. INCORPORATE THE REVISIONS REQUESTED HEREIN IN THE TENDER PRICE.

DESCRIPTION

Electrical changes and/or additions.

No drawings issued for this addendum

1. Clarifications

- a) All conduits for data cabling to be supplied by the electrician under the base bid and all data and comms work, including cabling is to be part of the cash allowance. Allowance carried in General conditions under Architectural scope.
- b) All fire alarm work shall be completed by the Electrical contractor under their scope and the owners stipulated fire vendor is Hamilton Fire Control (905-527-7042, Michael Fleet), coordinate all requirements and verification with same.
- c) Include supply and installation of hand dryers where noted in plans, refer to Architectural for locations and mounting heights. STELPRO SHDXL-XLERATOR, white finish, 120V, 1000W, Cat No. SHDXLAS1.

End of Addendum #E-1



Project Name: T24-189 – Parkdale Elementary School Accessibility Project
Client: Hamilton-Wentworth District School Board
MTE Addendum No.: 1

MTE File No.: 56043-100
Date: February 10, 2025

This Addendum consists of 1 page. This Addendum is to include the removal of additional asbestos-containing floor tile mastic

QUESTIONS:

Question 1: *We previously performed a project at Parkdale ES. Asbestos plaster walls was noted by Pinchin in their report. 4.1.5 Plaster and Stucco Plaster, containing asbestos, is present as a wall finish in the building (previously sampled, photos 1 and 2). Non-asbestos texture finish is present on the bottom half of plaster walls. MTE report on this project says plaster is non-asbestos. THROUGHOUT INTERIOR PLASTER ND NO GREY BACKING ND NO Need confirmation as this affects wall demolition in the corridors.*

Response 1: The Board’s Asbestos Survey Report indicates that extensive sampling of plaster walls has been completed within the Building. All historical samples from the Board’s record which were collected within the area of proposed construction have reported non-detect for asbestos. The single positive result for asbestos was in a separate area of the Building which will not be impacted by the proposed construction activities.

MTE collected an additional set of 7 plaster wall samples within the area of proposed construction which all came back non-detect for asbestos.

While asbestos-containing plaster walls may be present at select locations within the school, historical and current sampling data indicates that plaster walls specific to the areas of proposed construction (as noted in in MTE’s report) are non-asbestos.

Defer to the findings with MTE’s Designated Substance Audit Report, dated November 15, 2025 (revised January 20, 2025).

End of Addendum 1