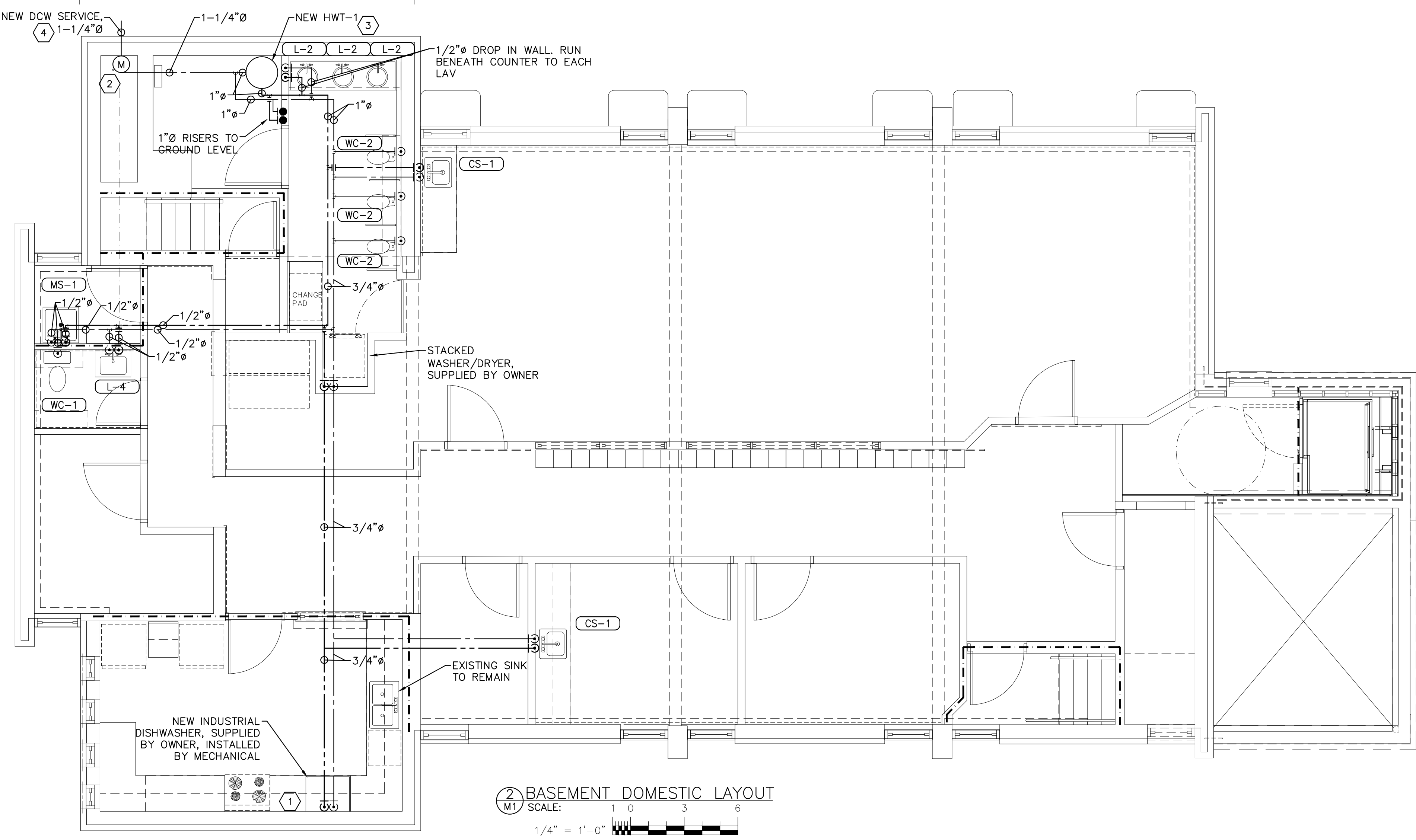


1 FIRST FLOOR DOMESTIC LAYOUT
 M1 SCALE: 1/4" = 1'-0"



2 BASEMENT DOMESTIC LAYOUT
 M1 SCALE: 1/4" = 1'-0"

GENERAL NOTES

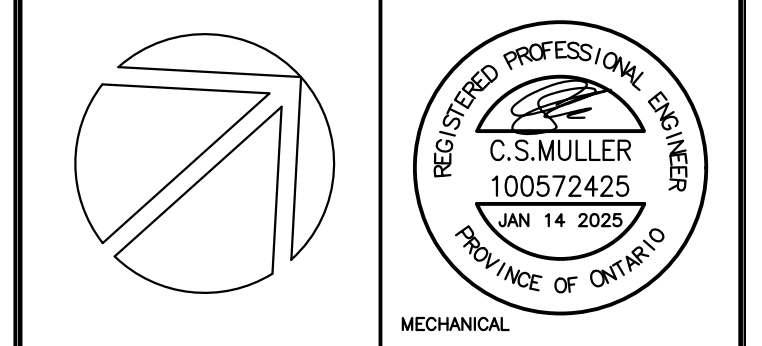
1. DISHWASHER REQUIRES 140 DEG F SUPPLY WATER. ALL SINKS WHICH CHILDREN MAY HAVE ACCESS TO MUST SUPPLY HOT WATER AT A MAXIMUM OF 110 DEG F (43 DEG C). THESE SINKS AND LAVS SHALL EITHER HAVE DEDICATED POINT OF USE THERMOSTATIC MIXING VALVES OR THE BRANCH WHICH SERVES A GROUP OF SINKS SHALL BE SUPPLIED WITH THERMOSTATIC MIXING VALVE.
2. THERMOSTATIC MIXING VALVE IS NOT REQUIRED FOR KITCHEN SINK.
3. FIXTURES AND FAUCETS ARE TO BE SELECTED BY OWNER. LAVATORY FAUCETS ARE TO BE EQUIPPED WITH AUTOMATIC SHUTOFF. TOILETS ARE TO ELONGATED WITH OPEN FRONT SEATS AND ARE TO BE FLUSH TANK TOILETS. AS PER OBC 7.6.4 TOILETS TO HAVE A MAX FLOW RATE OF 6.0L PER FLUSH, LAVS AND CLASSROOM SINKS TO HAVE A MAX FLOW RATE OF 1.9L/MIN AND 8.35L/MIN, RESPECTIVELY, AT A TEST PRESSURE OF 413KPA.
4. 1/2"Ø TO ALL FIXTURES UNLESS OTHERWISE NOTED

DRAWING NOTES

- 1 3/4"Ø FEEDS TO NEW DISHWASHER BASED ON INITIAL SELECTION FROM OWNER. VERIFY CONNECTION REQUIREMENTS ONCE DISHWASHER SELECTION HAS BEEN FINALIZED
- 2 CONTRACTOR TO COORDINATE NEW WATER METER WITH UTILITY PROVIDER
- 3 COORDINATE VENTING AND COMBUSTION AIR FOR NEW GAS FIRED WATER HEATER. UTILIZE THE VENTING AND COMBUSTION AIR PENETRATIONS FOR DEMOLISHED BOILERS WHERE POSSIBLE.
- 4 PRICE NEW DCW SERVICE AS A SEPARATE, OPTIONAL, LINE ITEM.

REVISIONS			
NO.	DESCRIPTION	DATE	BY
0	ISSUED FOR PERMIT AND TENDER	2025.01.14	CSM

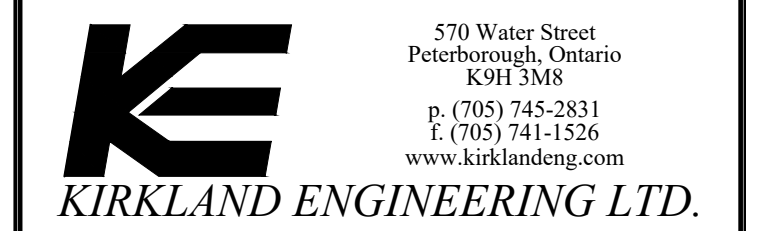
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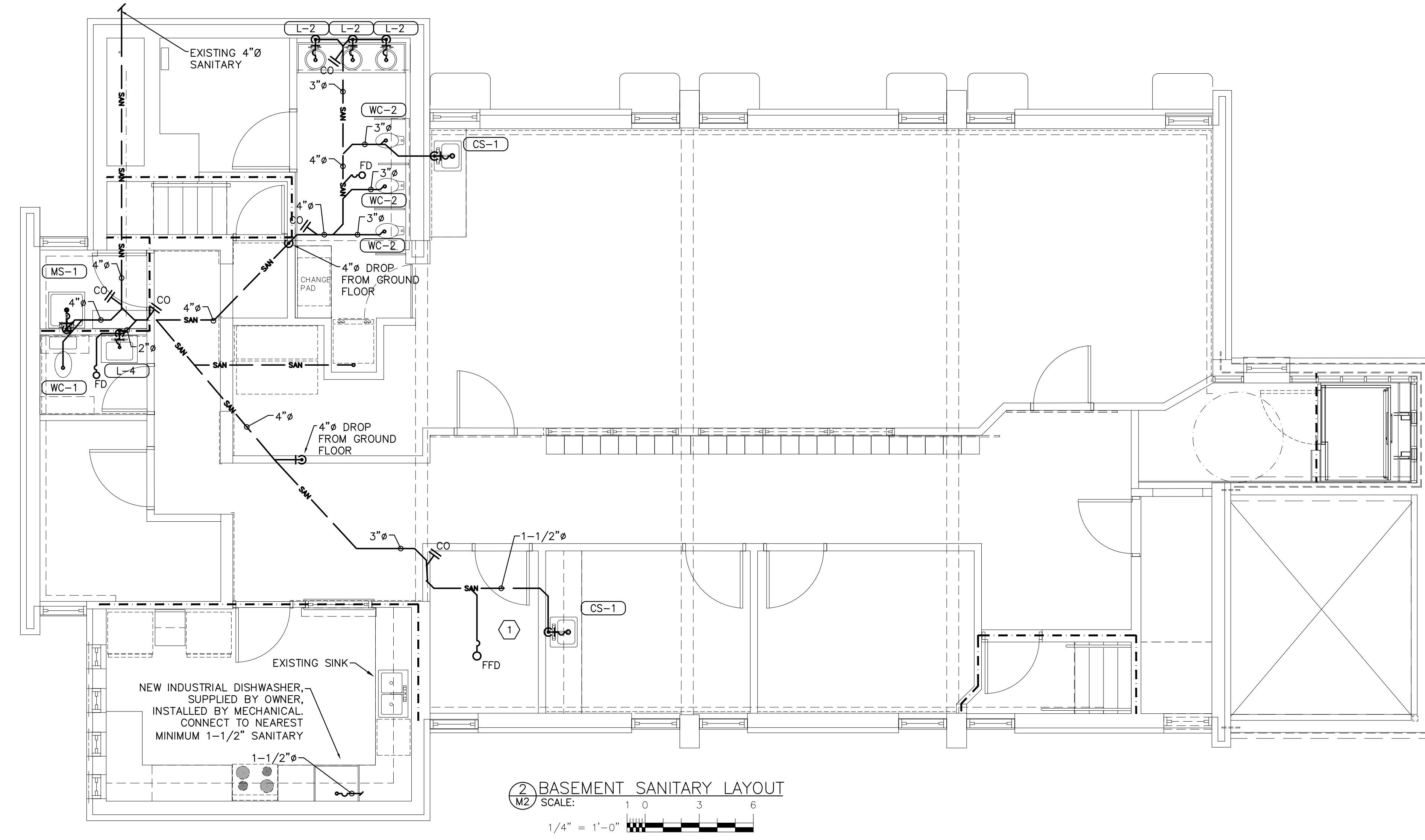
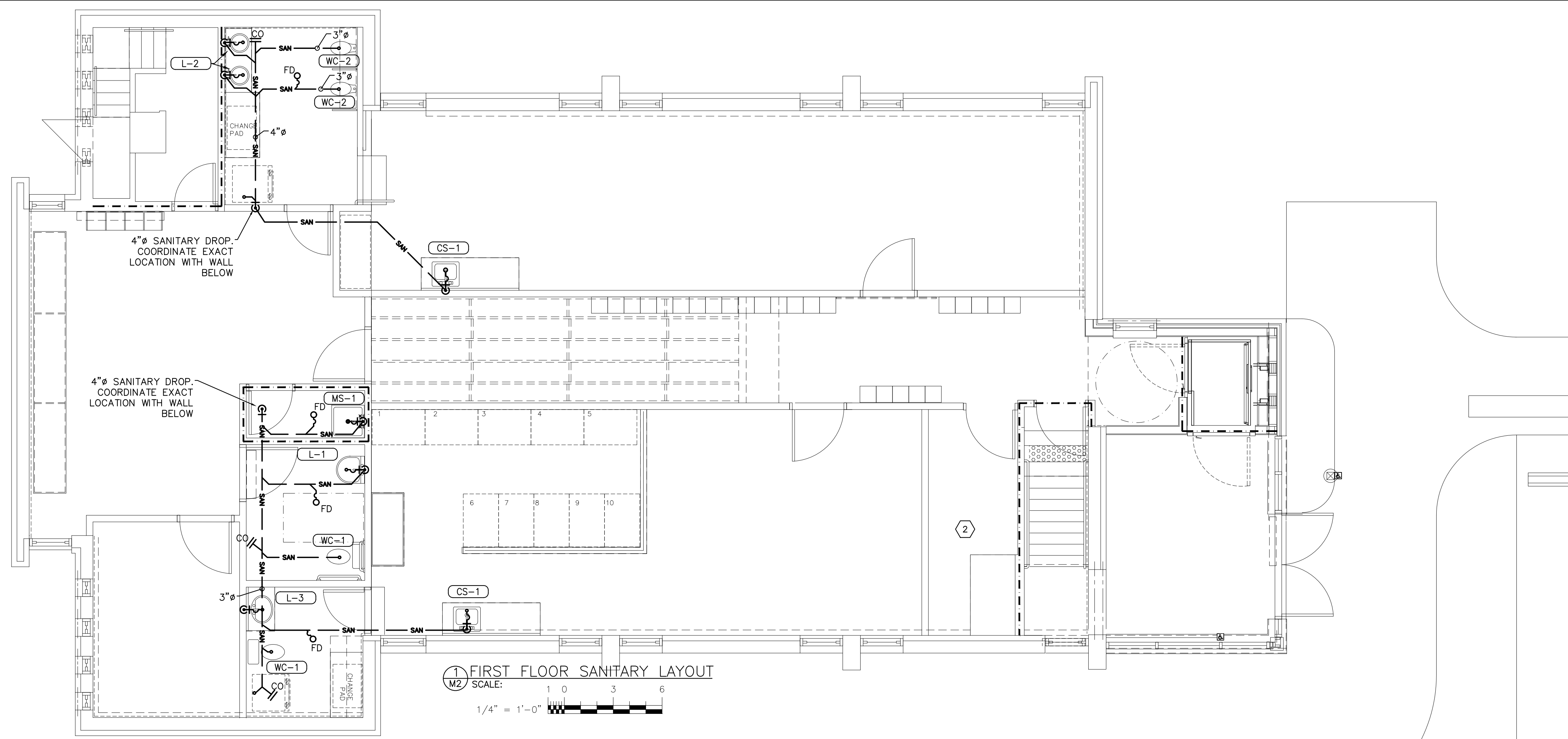
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PROJECT
**SAINT ALBANS NURSERY
 TWO CHILDCARE
 RENOVATIONS**
 567 Monaghan Road
 Peterborough, ON.

TITLE
**UPPER & LOWER FLOOR
 DOMESTIC LAYOUT**

DESIGN	CSM	SCALE AS NOTED
DRAWN	KCS	DWG NO.
CHECKED	CSM	M1
APPROVED	CSM	
PROJECT	7465	



GENERAL NOTES

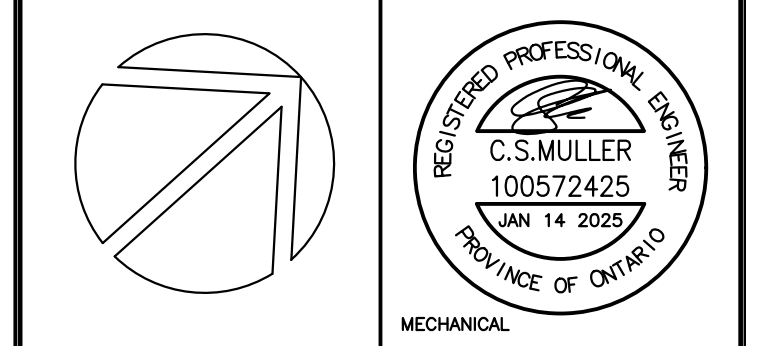
1. WITH THE INCREASED NUMBER OF PLUMBING FIXTURES THE SANITARY, WITH THE EXCEPTION OF THE MAIN SANITARY LEAVING THE BUILDING, IS SHOWN AS NEW. CONTRACTOR MAY TIE INTO EXISTING SANITARY AS APPLICABLE PROVIDED THAT THE EXISTING SANITARY MEETS THE MINIMUM SIZE REQUIREMENT AS SHOWN ON THE DRAWING

DRAWING NOTES

- 1 ROUTE CONDENSATE FROM HRV TO FUNNEL FLOOR DRAIN IN MECHANICAL ROOM.
- 2 ROUTE CONDENSATE TO NEAREST DRAIN CONNECTION IN BASEMENT.

REVISIONS			
NO.	DESCRIPTION	DATE	BY
0	ISSUED FOR PERMIT AND TENDER	2025.01.14	CSM

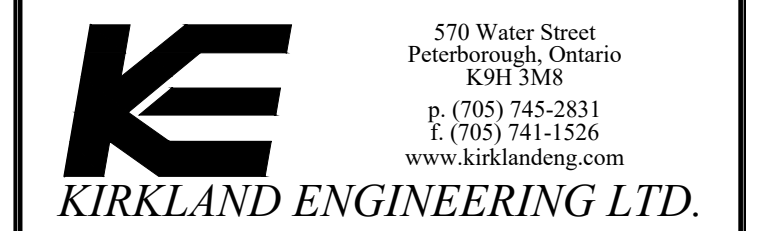
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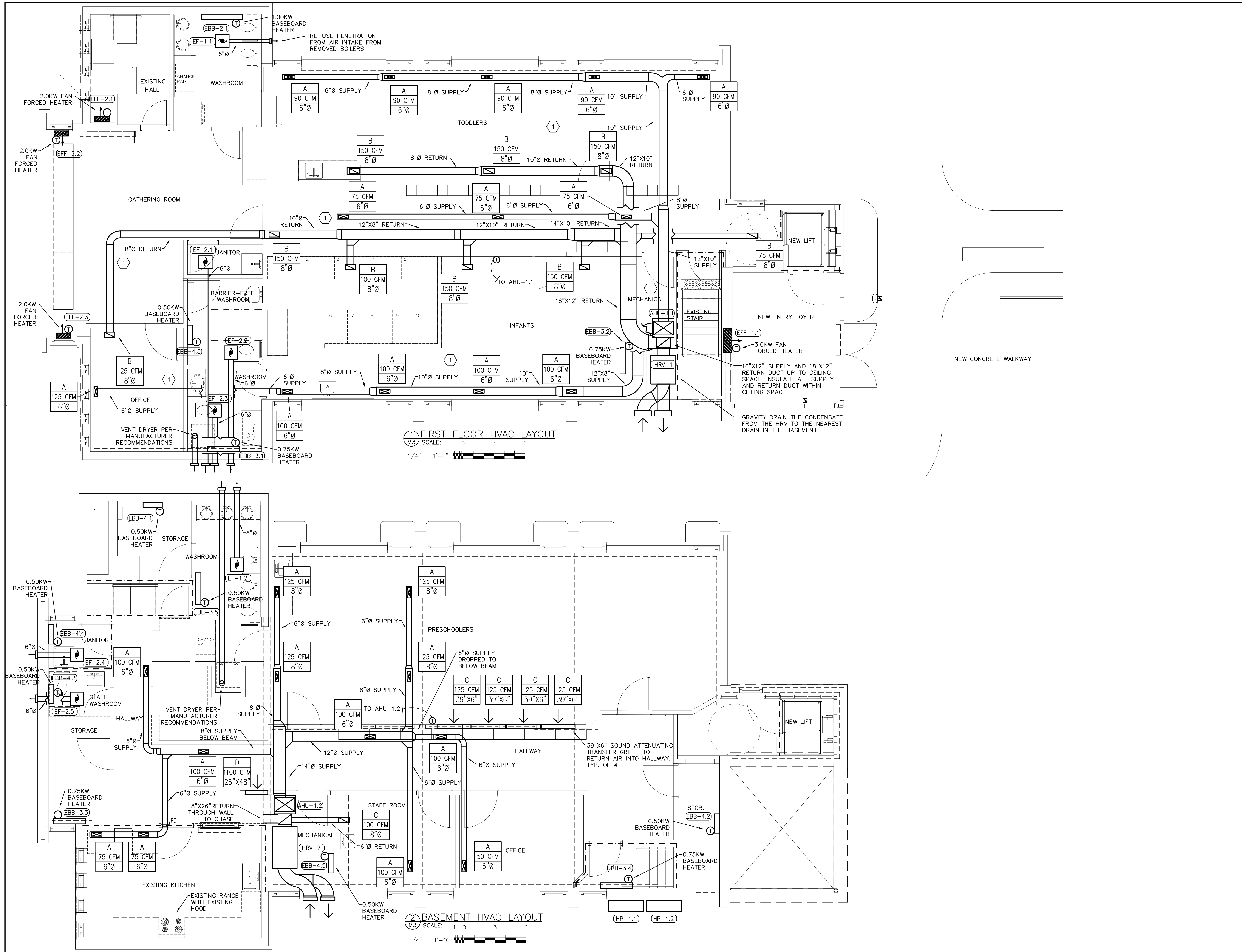
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PROJECT
**SAINT ALBANS NURSERY
 TWO CHILDCARE
 RENOVATIONS**
 567 Monaghan Road
 Peterborough, ON.

TITLE
**UPPER & LOWER FLOOR
 SANITARY LAYOUT**

DESIGN	CSM	SCALE AS NOTED
DRAWN	KCS	DWG NO.
CHECKED	CSM	M2
APPROVED	CSM	
PROJECT	7465	

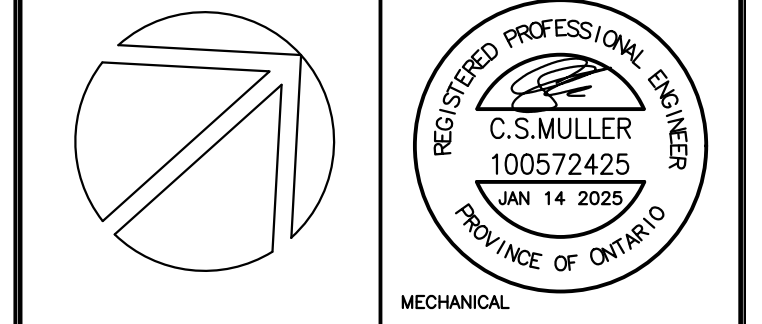


DRAWING NOTES
 1 INSULATE ALL SUPPLY AND RETURN DUCTS IN CEILING SPACE

0	ISSUED FOR PERMIT AND TENDER	2025.01.14	CSM
NO.	DESCRIPTION	DATE	BY

REVISIONS

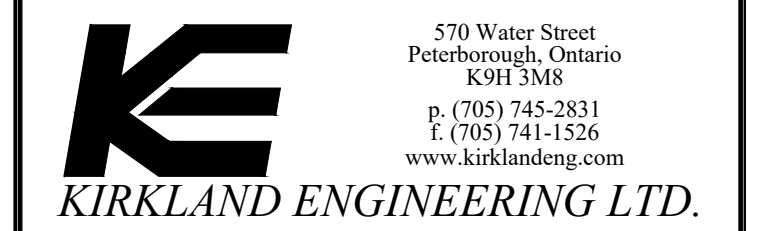
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PROJECT
**SAINT ALBANS NURSERY
 TWO CHILDCARE
 RENOVATIONS**
 567 Monaghan Road
 Peterborough, ON.

TITLE
**UPPER & LOWER FLOOR
 HVAC LAYOUT**

DESIGN	CSM	SCALE AS NOTED
DRAWN	KCS	DWG NO.
CHECKED	CRM	M3
APPROVED	CRM	
PROJECT	7465	

GENERAL MECHANICAL SPECIFICATIONS

- THE MECHANICAL DRAWINGS DO NOT SHOW ALL THE ARCHITECTURAL, STRUCTURAL AND ELECTRICAL DETAILS. INFORMATION INVOLVING ACCURATE DIMENSIONING OF THE SITE CONDITIONS SHALL BE TAKEN FROM SITE BY CONTRACTOR. CONTRACTOR TO MAKE ANY NECESSARY MODIFICATIONS OR ADDITIONS, WITHOUT CHARGE, TO ACCOMMODATE THE SITE CONDITIONS.
- EQUIPMENT TO BE AS SPECIFIED OR APPROVED EQUIVALENT. DESIGN BASED ON EQUIPMENT AS SPECIFIED IN EQUIPMENT SCHEDULE AND IS NOT INTENDED TO SHOW EQUIPMENT IN EXACT LOCATIONS. CONTRACTOR IS RESPONSIBLE TO VERIFY EQUIPMENT DIMENSIONS TO ENSURE THAT EQUIPMENT WILL FIT SITE CONDITIONS. ANY COST ASSOCIATED WITH USING EQUIPMENT OTHER THAN WHAT IS SPECIFIED IS THE FULL RESPONSIBILITY OF THE CONTRACTOR AND NO EXTRA WILL BE ALLOWED FOR THESE COSTS.
- ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS, THE SPECIFICATION, AND ALL OTHER TENDER DOCUMENTS.
- ALL PIPING AND DUCT WORK TO BE LABELED INCLUDING DIRECTION OF FLOW EVERY 8' AND EACH CHANGE IN DIRECTION.
- CONTRACTOR IS RESPONSIBLE TO ENSURE ALL EQUIPMENT AND MATERIALS CAN FIT INTO MECHANICAL ROOM OR ITS PLACE, THROUGH FINISHED OPENINGS, OR THAT MATERIAL IS PLACED IN MECHANICAL ROOM AT APPROPRIATE PHASE OF CONSTRUCTION.
- PRIOR TO SUBMITTING TENDERS, THE CONTRACTOR SHALL VISIT THE SITE TO DETERMINE ALL EXISTING CONDITIONS. ALLOW FOR ALL COSTS ASSOCIATED WITH COMPLETING THE WORK OF MECHANICAL DIVISION IN ACCORDANCE WITH EXISTING SITE AND BUILDING CONDITIONS. CONTRACTOR TO VERIFY LOCATION OF EXISTING UTILITY CONNECTIONS WHERE CONNECTIONS ARE REQUIRED. CONTRACTOR TO VERIFY LOCATION, DEPTH, ELEVATION, AND SIZE OF INVERT. NO ALLOWANCE FOR EXTRA PAYMENTS TO THE CONTRACTOR WILL BE MADE BY THE OWNER FOR FAILING TO VISIT AND EXAMINE SITE CONDITIONS.
- SUB-CRONTACTOR SHALL MAINTAIN SUCH INSURANCE AS WILL FULLY PROTECT BOTH THE OWNER AND THE SUB-CRONTACTOR FROM ANY AND ALL CLAIMS UNDER THE WORKMEN'S COMPENSATION ACT, ALSO ALL INSURANCE AS NOTED WITHIN ARCHITECTURAL GENERAL CONDITIONS.
- MAINTAIN A SEPARATE SET OF WHITE PRINTS ON THE SITE AND NOTE ALL CHANGES AND DEVIATIONS FROM THE ORIGINAL DESIGN. TWO SETS OF THESE DRAWINGS SHOWING ALL AS-BUILT CONDITIONS SHALL BE FORWARDED TO THE ARCHITECT AT THE COMPLETION OF THIS CONTRACT AND BEFORE APPLYING FOR FINAL PAYMENT.
- ADDITIONAL MONEY OVER THE CONTRACT PRICE SHALL NOT BE PAID UNLESS AN APPROVED CHANGE ORDER IS ISSUED BY THE ARCHITECT. CLAIMS FOR EXTRAS SHALL BE SUBMITTED WITH A COMPLETE BREAKDOWN OF MATERIAL, LABOUR, HOURLY RATES, ETC.
- BE RESPONSIBLE TO KEEP THE AREA CLEAN AT ALL TIMES AND TO PERIODICALLY REMOVE ALL DEBRIS. CONSTRUCTION AREA TO BE ISOLATED BY MEANS OF TARPS AND/OR TEMPORARY PARTITIONS.
- ALL CUTTING AND PATCHING REQUIRED FOR THE WORK OF THIS DIVISION SHALL BE CARRIED OUT BY THIS DIVISION. CUTTING AND DRILLING SHALL BE PERFORMED IN A MANNER SO AS TO CAUSE LITTLE DAMAGE. BE RESPONSIBLE AND PAY FOR ANY DAMAGE TO THE BUILDING INCURRED BY WORK OF THIS DIVISION.
- BE RESPONSIBLE TO COORDINATE THE INSTALLATION OF EQUIPMENT, DUCTING, PIPING, ETC. WITH OTHER TRADES AND THE OWNER'S REPRESENTATIVE PRIOR TO THE ACTUAL INSTALLATION.
- BE RESPONSIBLE FOR MECHANICAL WORK UNTIL THE COMPLETION AND FINAL ACCEPTANCE, FOR REPLACING ANY ITEM THAT MAY BE DEFECTIVE, DAMAGED, LOST OR STOLEN WITHOUT ADDITIONAL COST TO THE OWNER OR DELAY TO THE COMPLETION OF THE PROJECT.
- SHOP DRAWINGS AND PRODUCT DATA. 'SHOP DRAWINGS' MEANS DRAWINGS, DIAGRAMS, ILLUSTRATIONS, SCHEDULES, PERFORMANCE, CHARTS, BROCHURES, AND OTHER DATA WHICH ARE TO BE PROVIDED BY THE CONTRACTOR TO ILLUSTRATE DETAILS OF A PORTION OF THE WORK. INDICATE MATERIALS METHODS OF CONSTRUCTION AND ATTACHMENT OR ANCHORAGE, NECESSARY FOR COMPLETION OF WORK. ADJUSTMENTS MADE ON SHOP DRAWINGS BY OWNER OR ENGINEER ARE NOT INTENDED TO CHANGE CONTRACT PRICE. MAKE CHANGES IN SHOP DRAWINGS AS OWNER OR ENGINEER MAY REQUIRE. SUBMIT 6 HARD COPIES, OR 1 HIGH QUALITY ELECTRONIC COPY OF PRODUCT DATA SHEETS OR BROCHURES FOR ALL MECHANICAL EQUIPMENT. PROVIDE 2 MAINTENANCE MANUALS COMPLETE WITH WARRANTY, CERTIFICATE OF INSPECTIONS, AND COPY OF ALL PRODUCT LITERATURE AND MAINTENANCE INFORMATION.
- PRIOR TO FINAL INSPECTION DEMONSTRATE OPERATION OF EACH SYSTEM TO OWNER AND ENGINEER. INSTRUCT PERSONNEL IN OPERATION ADJUSTMENT AND MAINTENANCE OF EQUIPMENT AND SYSTEMS, USING PROVIDED OPERATION AND MAINTENANCE DATA AS BASIS FOR INSTRUCTION.
- AFTER THE WORK IS COMPLETED, GIVE A WRITTEN GUARANTEE FOR ONE YEAR COVERING WORKMANSHIP AND MATERIALS. REPAIR OR REPLACE, WITHOUT EXPENSE TO THE OWNER, ANY DEFECTS DUE TO WORKMANSHIP OR MATERIALS WHICH IN THE OWNER'S OPINION, ARE NOT DUE TO MISUSE OR NEGLIGENCE.
- THE MECHANICAL CONTRACTOR SHALL ENSURE THAT EVERY FIXTURE, PLUMBING APPLIANCE, INTERCEPTOR, CLEANOUT, VALVE, DEVICE OR PIECE OF EQUIPMENT SHALL BE LOCATED IN A MANNER THAT IT IS READILY ACCESSIBLE FOR USE, CLEANING, MAINTENANCE OR REPAIR. MECHANICAL CONTRACTOR SHALL PROVIDE ACCESS DOORS LARGE ENOUGH TO PERMIT EASY ACCESS TO CONCEALED FIXTURES, PLUMBING APPLIANCES, FIRE DAMPERS, INTERCEPTORS, CLEANOUTS, VALVES, DEVICES OR PIECES OF EQUIPMENT.
- CONTRACTOR SHALL CARRY THE SERVICES OF AN APPROVED FIRE STOPPING INSTALLER AND SHALL PROVIDE ALL FIRE STOPPING FOR ALL MECHANICAL AND ELECTRICAL PENETRATIONS. PROVIDE SHOP DRAWINGS FOR FIRE STOPPING MATERIALS USED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SECURITY OF THEIR PROPERTY. THE OWNER BEARS NO RESPONSIBILITY FOR PROTECTION FROM THEFT, FIRE, OR ENVIRONMENTAL CONDITIONS.
- ALL PIPING AND DUCTING SHOWN FOR SCHEMATIC AND SCOPE OF WORK PURPOSES IN GENERAL LOCATION OF USE. COORDINATE EXACT ROUTING ON SITE AND WITH BEST PRACTICES.
- ALL EQUIPMENT (PUMPS, HVAC UNITS, ROOFTOP FANS, ETC.) TO BE PROVIDED WITH VIBRATION ISOLATION DEVICES.

GENERAL HVAC SPECIFICATIONS

- PROVIDE DUCTWORK IN ACCORDANCE WITH A.S.H.R.A.E. AND INTERNATIONAL MECHANICAL CODES CHAPTER 5 SECTION 506., LATEST EDITION. ALL DUCTS SHALL BE FABRICATED FROM PRIME QUALITY GALVANIZED STEEL AS PER A.S.H.R.A.E. STANDARDS. DUCTS SHALL BE INSTALLED AS HIGH AS POSSIBLE. PROPER ANGLE IRON SUPPORTS, HANGERS, ETC., SHALL BE PROVIDED FOR ALL DUCTS. SEAL ALL JOINTS OF DUCTS WITH HIGH PRESSURE SEALER. APPLY SEALANT TO OUTSIDE OF JOINTS AS PER MANUFACTURERS RECOMMENDATIONS. CONSTRUCT DUCTS IN ACCORDANCE WITH THE FOLLOWING:

MAX DUCT DIMENSION	U.S. GAUGE
UP TO 12"	26
13" TO 30"	24
31" TO 54"	22

CONSTRUCT ROUND DUCTS IN ACCORDANCE WITH THE FOLLOWING:
 4" TO 8" DIAMETER - 26 GAUGE
 9" TO 24" DIAMETER - 24 GAUGE
- EQUIVALENT DUCT SIZES MAY BE SUBSTITUTED IN LIEU OF THOSE SHOWN, IN ORDER TO AVOID INTERFERENCE WITH STRUCTURE AND OTHER MECHANICAL SERVICES. CONTRACTOR TO PROVIDE DRAWINGS OF ANY PROPOSED CHANGES TO ENGINEER FOR APPROVAL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN DESIGN AIR FLOW WITH DUCT INSTALLATION. ALL SUPPLY & RETURN BRANCHES SHALL BE AT 45° TAKE OFFS.
- THE CONTRACTOR SHALL VERIFY EXACT LOCATION OF EQUIPMENT PRIOR TO FABRICATION AND INSTALLATION OF DUCTWORK. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED ELBOWS, DUCT ACCESSORIES, ETC. TO COMPLETE THE INTENT OF THE MECHANICAL DRAWINGS.
- HVAC EQUIPMENT MUST NOT BE USED DURING CONSTRUCTION. DUCT OPENINGS SHALL BE COVERED TO KEEP OUT DUST AND DEBRIS. COMMISSIONING MUST NOT BE PERFORMED UNTIL ALL INTERIOR FINISHES ARE COMPLETE.
- INSULATE ALL DUCTS IN ACCORDANCE WITH ASHRAE 90.1, LATEST EDITION.
- MECHANICAL EQUIPMENT TO BE ISOLATED FROM DUCT WORK USING 6" FLEXIBLE DUCT CONNECTORS ON BOTH THE SUPPLY AND RETURN DUCTS.
- ALL MITERED ELBOWS TO BE COMPLETE WITH DOUBLE THICKNESS AIR VANES. ALL RADIUS ELBOWS TO BE COMPLETE WITH SPLITTER VANES PER SMACNA DUCT CONSTRUCTION STANDARDS.
- PROVIDE VOLUME DAMPERS AT ALL DUCT BRANCHES AND TAKE-OFFS.
- PROVIDE AN INDEPENDENT FIRM CERTIFIED BY NEBB TO CONDUCT TESTING, ADJUSTING AND BALANCING OF ALL MECHANICAL SYSTEMS AND COMPONENTS, INCLUDING ALL DUCTS AND HYDRONIC PIPING. SUBMIT WRITTEN REPORT IN TRIPLICATE TO MECHANICAL ENGINEER UPON COMPLETION.
- MAXIMUM LENGTH OF FLEX DUCT PERMITTED IS 10' PER DIFFUSER. NO FLEX DUCT IS PERMITTED ON EXPOSED DUCT WORK.
- PROVIDE FIRE DAMPERS IN DUCTS AT FLOOR, WALL, CEILING, AND ROOF PENETRATIONS WHERE FIRE SEPARATIONS ARE CROSSED, AND WHERE REQUIRED BY LOCAL AUTHORITIES AND CODES. FIRE DAMPERS SHALL MAINTAIN 100% FREE AREA OF DUCTWORK (TYPE 'B' FIRE DAMPERS). RATE FIRE DAMPERS TO MATCH THE FIRE RATING OF SEPARATION CROSSED. PROVIDE ONLY ULC LABELED DAMPERS AND INSTALL AS SPECIFIED IN NFPA/CSA 90A.
- SUPPLY AND RETURN DUCTS SHALL BE CONNECTED TO THE HVAC UNIT THROUGH A FLEXIBLE NON METALLIC DUCT.
- 10' OF ACOUSTIC SOUND INSULATION SHALL BE PROVIDED TO THE DUCTS AT THE BEGINNING NEAR THE HVAC UNIT.
- SMOKE DETECTORS AT SUPPLY DUCTS SHALL BE PROVIDED TO AUTOMATICALLY SHUT DOWN UNITS UPON DETECTION OF SMOKE.

ELECTRIC HEATERS SCHEDULE							
IDENT.	MANUFACTURER	TYPE	POWER	MODEL	FINISH	CONTROL	REMARKS
EFF-1.1	OUELLET	ELECTRIC FAN FORCED	240/1/60 3000W	OCA03000	BY ARCHITECT	BUILT-IN THERMOSTAT	BUILT-IN TAMPER PROOF THERMOSTAT, 24V RELAY, SUPPLIED AND SUPPLIED BY MECHANICAL, POWER BY ELECTRICAL.
EFF-2.1 TO EFF-2.3	OUELLET	ELECTRIC FAN FORCED	240/1/60 2000W	OAC02000-T	BY ARCHITECT	BUILT-IN THERMOSTAT	BUILT-IN TAMPER PROOF THERMOSTAT, 24V RELAY, SUPPLIED AND SUPPLIED BY MECHANICAL, POWER BY ELECTRICAL.
EBB-1 REMOVED FROM DESIGN	OUELLET	ELECTRIC BASEBOARD	240/1/60 2000W	DEH2000	BY ARCHITECT	BUILT-IN THERMOSTAT	BUILT-IN TAMPERPROOF THERMOSTAT, 24V RELAY, SUPPLIED AND SUPPLIED BY MECHANICAL, POWER BY ELECTRICAL.
EBB-2.1	OUELLET	ELECTRIC BASEBOARD	120/1/60 1000W	OFM1002	BY ARCHITECT	BUILT-IN THERMOSTAT	BUILT-IN TAMPERPROOF THERMOSTAT, 24V RELAY, SUPPLIED AND SUPPLIED BY MECHANICAL, POWER BY ELECTRICAL.
EBB-3.1 TO EBB-3.5	OUELLET	ELECTRIC BASEBOARD	120/1/60 750W	OFM0752	BY ARCHITECT	BUILT-IN THERMOSTAT	BUILT-IN TAMPERPROOF THERMOSTAT, 24V RELAY, SUPPLIED AND SUPPLIED BY MECHANICAL, POWER BY ELECTRICAL.
EBB-4.1 TO EBB-4.5	OUELLET	ELECTRIC BASEBOARD	120/1/60 500W	OFM0502	BY ARCHITECT	BUILT-IN THERMOSTAT	BUILT-IN TAMPERPROOF THERMOSTAT, 24V RELAY, SUPPLIED AND SUPPLIED BY MECHANICAL, POWER BY ELECTRICAL.

AIR HANDLER UNIT SCHEDULE									
IDENT.	LOCATION	MANUFACTURER	TYPE	POWER	MODEL	CAPACITY (MBH)	CFM/STATIC PRESSURE	CONTROL	REMARKS
AHU-1.1	MECHROOM	MITSUBISHI	AIR HANDLER INDOOR UNIT	208/230-1-60 MCA: 5.5A MCCP: 15A	PVA-A42AA7	HEATING: 42,000 BTU/H COOLING 42,000 BTU/H	1200CFM @ 0.5"	PROGRAMMABLE THERMOSTAT: HONEYWELL RTH2300 OR EQUIVALENT	ROUTE CONDENSATE TO NEAREST DRAIN AND CONNECT INDIRECTLY. c/w COOLING COIL TO SUIT CONDENSING UNIT. CONNECT TO OUTDOOR UNIT HP-1.1.
AHU-1.2	MECHROOM	MITSUBISHI	AIR HANDLER INDOOR UNIT	208/230-1-60 MCA: 5.5A MCCP: 15A	PVA-A42AA7	HEATING: 42,000 BTU/H COOLING 42,000 BTU/H	1200CFM @ 0.5"	PROGRAMMABLE THERMOSTAT: HONEYWELL RTH2300 OR EQUIVALENT	ROUTE CONDENSATE TO NEAREST DRAIN AND CONNECT INDIRECTLY. c/w COOLING COIL TO SUIT CONDENSING UNIT. CONNECT TO OUTDOOR UNIT HP-1.2.

GENERAL PLUMBING SPECIFICATIONS

- UNLESS OTHERWISE NOTED ALL HOT AND COLD WATER PIPING AFTER THE MAIN BUILDING CWS ISOLATION VALVE SHALL BE HARD COPPER TYPE L PIPING WHICH SHALL CONFORM TO ASTM B42 AND ASTM B88.
- ALL DOMESTIC WATER PIPING TO BE INSULATED c/w VAPOUR BARRIER. PIPE INSULATION TO CONFORM O.B.C. TABLE 12.3.4.5.
- ALL DRAINAGE, WASTE, AND VENT PIPE TO BE PVC DWV WITH FLAME SPREAD RATING < 25. PIPES TO BE XFR WHERE PENETRATING FIRE RATED WALLS.
- WATER HAMMER ARRESTORS TO BE STAINLESS STEEL BELLOWES TYPE; WATTS SS-A OR APPROVED EQUIVALENT.
- ROUTE ABOVE GROUND PIPING IN CEILING SPACE OF WALL INTERIORS FOR CONCEALMENT WHERE EVER POSSIBLE UNLESS SPECIFICALLY NOTED OTHERWISE ON DRAWINGS. COORDINATE PIPE INSTALLATION IN WALLS WITH MASON AND OR DRYWALLER OR APPROPRIATE TRADE INVOLVED.
- INSTALL ISOLATION VALVES IN EACH BRANCH LINE FROM COLD AND HOT WATER MAINS, AT BASE OF EACH RISER, AND BEFORE EACH FIXTURE OR EQUIPMENT CONNECTED TO COLD/HOT WATER SYSTEM. PROVIDE A FIRE RATED ACCESS DOOR AT EACH CONCEALED VALVE.
- INSTALL FLANGES OR UNIONS TO PERMIT REMOVAL OF EQUIPMENT WITHOUT DISTURBING PIPING SYSTEMS.
- PROVIDE COMPLETE DRAINAGE AND VENT SYSTEMS TO SERVE FIXTURES AND ITEMS SPECIFIED AND AS SHOWN ON PLANS.
- WHERE EXPOSED PIPES PASSES THROUGH FINISHED FLOORS, WALLS, OR CEILINGS, PROVIDE CHROME PLATED ESCUTCHEON WITH SET SCREW.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL NECESSARY MATERIALS & LABOUR TO MAINTAIN ALL FIRE SEPARATIONS AFFECTED BY THE WORK PERFORMED.
- GRADE HORIZONTAL SANITARY DRAINAGE AND VENT PIPING AT MINIMUM 1:50.
- ALL FAUCET AND TOILET SUPPLY LINES SHALL BE STAINLESS BRAIDED HOSE.
- ALL FLOOR DRAINS TO BE TRAPPED, PRIMED, AND VENTED WITH STRAINER INSTALLED FLUSH WITH FINISHED FLOOR. SUPPLY AND INSTALL PRIMER AND TUBING FROM CLOSEST COLD WATER BRANCH, C/W SPECIALTY BLEED VALVE (P.P.P. OR EQUAL), UNLESS OTHERWISE SPECIFIED IN DRAWINGS.
- EXPOSED P-TRAPS SHALL BE CHROME PLATED BRASS.
- SIZE OF DRAINAGE PIPE SERVING FIXTURES:

DISHWASHER	1-1/2" (38mm)	LAVATORY	1-1/2" (38mm)
SINK	1-1/2" (38mm)	SHOWER	1-1/2" (38mm)
SERVICE SINK	1-1/2" (38mm)	URINAL	2" (51mm)
WC	3" (76mm)	FLOOR DRAIN	2" (51mm)
- SIZE OF EITHER CWS & HWS ISOLATION VALVES SERVING FIXTURES:

DISHWASHER	1/2" (13mm)	LAVATORY	1/2" (13mm)
SINK	1/2" (13mm)	SHOWER	1/2" (13mm)
SERVICE SINK	1/2" (13mm)	URINAL	3/4" (19mm)
WC	1/2" (13mm)	WF	1/2" (13mm)
- ALL PIPING FITTINGS WITH TERMINAL EQUIPMENT SHALL BE LEAD FREE.
- THE CONTRACTOR IS RESPONSIBLE FOR THE INSULATION OF THE STORM PIPES INSIDE THE BUILDING.
- ALL PIPING IS TO BE STRAIGHT, PARALLEL AND PERPENDICULAR TO THE BUILDING STRUCTURE. SLOPE ALL PIPING TO DRAIN POINTS.
- WHEN PIPE LAYING NOT IN PROGRESS, CLOSE OFF OPEN ENDS OF PIPE WITH WATER TIGHT PLUG OR CAP.
- INSTALL CLEANOUTS AS REQUIRED BY PLUMBING CODES. SIZE OF CLEANOUTS TO MATCH SIZE OF ASSOCIATED SANITARY PIPE. ENSURE CLEAN OUTS ARE MADE ACCESSIBLE.
- CONNECT FIXTURES COMPLETE WITH SUPPLIES AND DRAINS, TRAPPED, SUPPORTED, SANITARY LEVEL AND SQUARE WITH HOT WATER FAUCETS ON THE LEFT.

WATER HEATER							
IDENT.	MANUFACTURER	MODEL	CAPACITY	EFFICIENCY	GAS CONNECTION	BTU	NOTES
HWT-1	AO SMITH	BTH-1520	100 GALLONS	98%	3/4"	150,000 INPUT	GAS FIRED COMMERCIAL WATER HEATER. ORDERED COMPLETE WITH VENTING KIT BY MANUFACTURER.

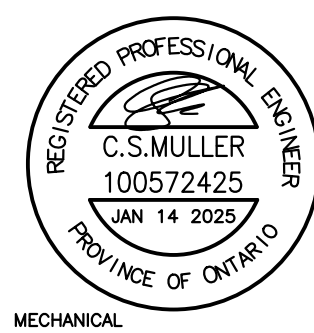
HRV SCHEDULE							
IDENT.	MANUFACTURER	MODEL	POWER	DUCT SIZE	CFM/STATIC PRESSURE	CONTROL	NOTES
HRV-1	LIFEBREATH	455DD	120/1/60 MCA: 4.8A MOP: 15A	14"x8" (X4)	525 CFM @0.1 IN.W.G (HIGH)	WALL MOUNT CONTROLLER (H)	c/w 99-DXPL02 DIGITAL CONTROLLER, MOUNTING BRACKETS
HRV-2	LIFEBREATH	350 DCS	120/1/60 MCA: 6.3A MOP: 15A	14"x8" (X4)	450 CFM @0.1 IN.W.G (HIGH)	WALL MOUNT CONTROLLER (H)	c/w 99-DXPL02 DIGITAL CONTROLLER, MOUNTING BRACKETS

DIFFUSER SCHEDULE					
IDENT.	MANUFACTURER	MODEL	DIFFUSER/GRILLE SIZE	COLOUR/FINISH	DESCRIPTION
A	NAILOR	48LL1	AS NOTED	BY ARCHITECT	LINEAR LOUVER DIFFUSER
B	NAILOR	6100 SERIES	24"x10"	BY ARCHITECT	SQUARE LOUVERED FACE GRILLE STEEL
C	ETS NORD	RSL	1000X150 (mm)	BY ARCHITECT	SOUND ATTENUATING TRANSFER GRILLE
D	NAILOR	6100 SERIES	26"x48"	BY ARCHITECT	SQUARE LOUVERED FACE GRILLE STEEL

EXHAUST FAN SCHEDULE									
IDEN.	LOCATION	MANUFACTURER	TYPE	POWER	DUCT SIZE	MODEL	CFM/STATIC PRESSURE	OPER. FAN (RPM)	NOTES
EF-1	CHILDREN WASHROOMS	GREENHECK	CEILING MTD.	120V/1/60 1.70A 128 MAX INPUT WATTS	6"	SP-B150	155 CFM @ 0.125" WG	1050	c/w BACKDRAFT DAMPER, DISCONNECT, MOUNTING BRACKETS, CONTROLLED BY OCCUPANCY SENSOR.
EF-2	STAFF WASHROOMS JANITOR ROOM B.F WASHROOM	GREENHECK	CEILING MTD.	120V/1/60	6"	SP-LP0511-1	55 CFM @ 0.125" WG	685	c/w BACKDRAFT DAMPER, DISCONNECT, MOUNTING BRACKETS, CONTROLLED BY OCCUPANCY SENSOR.

REVISIONS			
NO.	DESCRIPTION	DATE	BY
0	ISSUED FOR PERMIT AND TENDER	2025.01.14	CSM

Kirkland Engineering Ltd BCIN: 28857



NOT TO BE USED FOR CONSTRUCTION UNLESS SIGNED BY THE ENGINEER.

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PROJECT
**SAINT ALBANS NURSERY
 TWO CHILDCARE
 RENOVATIONS**
 567 Monaghan Road
 Peterborough, ON.

TITLE
**MECHANICAL
 SPECIFICATIONS**

DESIGN	CSM	SCALE N.T.S.
DRAWN	KCS	DWG NO.
CHECKED	CRM	M4
APPROVED	CRM	
PROJECT	7465	

WC-1: TOILET – FLOOR MOUNTED WITH FLOOR OUTLETAmerican STANDARD 215AA104.020 TOILET – CADET® PRO™, TANK TYPE TOILET, FLOOR MOUNTED WITH FLOOR OUTLET, HIGH EFFICIENCY HET 4.8 LPF (1.28 GPF), VITREOUS CHINA, WHITE FINISH, EVERCLEAN® ANTIMICROBIAL SURFACE, ELONGATED BOWL, RIGHT HEIGHT* RIM AT 419 MM (16-1/2”), MINIMUM 305 MM (12”) ROUGH-IN FROM WALL TO THE CENTER OF WASTE OUTLET, SIPHON JET PLASTIC ACTION, MANUAL, POLISHED CHROME FINISH, LEFT-HAND TRIP LEVER (7381231–200.0020A), TANK NOT LINED, WITHOUT TANK COVER LOCKING DEVICE, GRAVITY-ASSISTED FLUSH, CADET® FLUSHING SYSTEM, 76 MM (3”) FLUSH VALVE, METAL SHANK FILL VALVE, TANK COUPLING COMPONENTS, 229 X 203 MM (9” X 8”) WATER SURFACE AREA, FULLY-GLAZED 54 MM (2-1/8”) TRAPWAY, POWERWASH™ RIM SCRUBS BOWL WITH PRESSURIZED WATER EVERY FLUSH, INCLUDES EZ–INSTALL TOOLS, TRADE EXCLUSIVE TANK, TOILET SEAT NOT INCLUDED, COLOUR–MATCHED BOLT CAPS, 441 MM (17-3/8”) WIDE, 765 MM (30-1/8”) FROM FINISHED WALL, 772 MM (30-3/8”) HIGH, ASME A112.19.2 COMPLIANT, CSA B45.1 COMPLIANT, EPA WATERSENSE® COMPLIANT.

MCQUIRE LFBV172 SUPPLY – CONVERTIBLE™ COMMERCIAL TOILET SUPPLY KIT, CONSISTING OF (1) STOP VALVE, (1) RISER, (1) FLANGE, LEAD FREE BRASS BODY, CHROME–PLATED FINISH, 138 – 862 KPA (20 – 125 PSI) OPERATING PRESSURE, CONVERTIBLE LOOSE KEY/TRIANGLE HANDLE, QUARTER TURN BALL VALVE, ANGLE STOP, C.P. WROUGHT STEEL DEEP BELL WALL FLANGE (STANDARD), C.P. PREFABRICATED 127 MM (5”) COPPER SWEAT TUBE EXTENSION NIPPLE, 305 MM (12”) C.P. TOILET FLEXIBLE COPPER RISER TUBE (STANDARD), 13 MM (1/2”) SWEAT INLET X 10 MM (3/8”) O.D. OUTLET, AB 100 COMPLIANT, ASME A112.18.1 COMPLIANT, ASME A112.18.2–2 (RISERS), CSA B125.2 COMPLIANT (RISERS), CERTIFIED TO NSF/ANSI 372, CERTIFIED TO NSF/ANSI 61, UPC COMPLIANT.

CENTOCO 8202SFE–001 SEAT – FAST–N–LOCK, FOR ELONGATED BOWL, OPEN FRONT, HEAVY–DUTY, FOR COMMERCIAL APPLICATIONS, POLYPROPYLENE, TOILET SEAT, WITH SEAT COVER, PLASTIC COMMERCIAL CHECK HINGES, AND STAINLESS STEEL HINGE PIN, SPECIFIED IN WHITE FINISH, FAST–N–LOCK MOUNTING SYSTEM TAKES THE GUESS WORK OUT WHEN TIGHTENING THE HARDWARE, THE SPECIALLY DESIGNED FASTENERS IN CLICK® WHEN THE APPROPRIATE TORQUE IS REACHED. THE BOLT AND NUT MATERIAL SHALL BE STAINLESS STEEL, 25 MM (1”) HIGH, 470 MM (18-1/2”) LONG, 362 MM (14-1/4”) WIDE.

WC-2: TOILET – FLOOR MOUNTED WITH FLOOR OUTLETAmerican STANDARD 231522B.020 TOILET – BABY DEVORO™ FLOWISE®, TANK TYPE TOILET, FLOOR MOUNTED WITH FLOOR OUTLET, HIGH EFFICIENCY HET 4.8 LPF (1.28 GPF), VITREOUS CHINA, WHITE FINISH, JUNIOR BOWL, 260 MM (10-1/4”) RIM HEIGHT FOR TODDLERS, MINIMUM 254 MM (10”) ROUGH-IN FROM WALL TO THE CENTER OF WASTE OUTLET, SIPHON JET FLUSH ACTION, MANUAL, WHITE LEFT–HAND TRIP LEVER (738903–0200A), TANK NOT LINED, WITHOUT TANK COVER LOCKING DEVICE, GRAVITY–ASSISTED FLUSH, TANK COUPLING COMPONENTS, FULLY–GLAZED TRAPWAY, SANITARY DAM ON BOWL, TOILET SEAT NOT INCLUDED, TWO (2) COLOUR–MATCHED BOLT CAPS, 438 MM (17-1/4”) WIDE, 635 MM (25”) FROM FINISHED WALL, 622 MM (24-1/2”) HIGH, ASME A112.19.2 COMPLIANT, CSA B45.1 COMPLIANT.

AMERICAN STANDARD 5001G055.020 SEAT – BABY DEVORO, FOR BABY SEAT, OPEN FRONT, HEAVY–DUTY, FOR COMMERCIAL APPLICATIONS, SOLID PLASTIC, TOILET SEAT, LESS SEAT COVER, SPECIFIED IN WHITE FINISH, AND EVERCLEAN® ANTIMICROBIAL SURFACE, 44 MM (1-3/4”) HIGH, 403 MM (15-7/8”) LONG, 343 MM (13-1/2”) WIDE.

MCQUIRE LFBV172 SUPPLY – CONVERTIBLE™ COMMERCIAL TOILET SUPPLY KIT, CONSISTING OF (1) STOP VALVE, (1) RISER, (1) FLANGE, LEAD FREE BRASS BODY, CHROME–PLATED FINISH, 138 – 862 KPA (20 – 125 PSI) OPERATING PRESSURE, CONVERTIBLE LOOSE KEY/TRIANGLE HANDLE, QUARTER TURN BALL VALVE, ANGLE STOP, C.P. WROUGHT STEEL DEEP BELL WALL FLANGE (STANDARD), C.P. PREFABRICATED 127 MM (5”) COPPER SWEAT TUBE EXTENSION NIPPLE, 305 MM (12”) C.P. TOILET FLEXIBLE COPPER RISER TUBE (STANDARD), 13 MM (1/2”) SWEAT INLET X 10 MM (3/8”) O.D. OUTLET, AB 100 COMPLIANT, ASME A112.18.1 COMPLIANT, ASME A112.18.2–2 (RISERS), CSA B125.2 COMPLIANT (RISERS), CERTIFIED TO NSF/ANSI 372, CERTIFIED TO NSF/ANSI 61, UPC COMPLIANT.

LAV-1: LAVATORY –AMERICAN STANDARD 0955001EC.020 0059020EC.020 BASIN – MURRO, WALL–HUNG LAVATORY, VITREOUS CHINA, EVERCLEAN® ANTIMICROBIAL SURFACE, WHITE FINISH, SINGLE HOLE CENTERSET, REAR OVERFLOW, FAUCET, LEDGE WITH RECESSED SELF–DRAINING DECK, FOR CONCEALED ARM OR WALL SUPPORT, VITREOUS CHINA SHROUD/KNEE CONTACT GUARD WITH EVERCLEAN (0059020EC), SOAP DISPENSER, WHEN INSTALLED WITH A BELOW DECK ELECTRONICS FAUCET WHICH HAS THE CONTROL BOX, THE ACCESSORIES WILL NOT FIT UNDER THE SHROUD AND WILL NEED TO BE INSTALLED OUTSIDE THE SHROUD, OVERALL DIMENSIONS: 545 MM (21-7/16”) LONG, 540 MM (21-1/4”) WIDE, 152 MM (6”) HIGH, BOWL DIMENSIONS: 343 MM (13-1/2”) LONG, 394MM (15-1/2”) WIDE, 127 MM (5”) DEEP.

SLOAN EFX-250–BAT–CP–0.5GPM–IR–FCT FAUCET – BASYS®, COUNTER MOUNTED, AUTOMATIC NO–TOUCH, BATTERY POWERED, LAVATORY FAUCET, POLISHED CHROME FINISH, SINGLE HOLE CENTERSET, METAL, FLEXIBLE HIGH PRESSURE SUPPLY HOSES WITH 10 MM (3/8”) COMPRESSION CONNECTIONS, 1.9 LPM (0.5 GPM) MAXIMUM FLOWRATE, MULTI–LAMINAR SPRAY OUTLET, FIXED FIXED SPOUT, 133 MM (5-1/4”) SPOUT REACH, 164 MM (6-7/16”) HIGH, DOUBLE INFRARED SENSORS WITH AUTOMATIC SETTING FEATURE, SOLENOID HOUSED IN REMOVABLE CARRIER THAT INCLUDES SUPPLY STRAINER, ABOVE DECK INDIVIDUAL DIAGNOSTIC INDICATORS FOR BATTERY LIFE, SOLENOID CONDITION, AND POWER–UP MODE, FOUR (4) AA–SIZE ALKALINE BATTERIES, MIXING VALVE ORDERED SEPARATELY, INCLUDES ALL MOUNTING HARDWARE, VANDAL–RESISTANT SPRAY INSERT, KEY HOUSED INSIDE FAUCET BODY, INTEGRAL ABOVE DECK WATER SUPPLY SHUT OFF, LINE PURGE MODE.

LAWLER 570–86820 MIXING VALVE – POINT OF USE AND MASTER CONTROLLED FIXTURES, THERMOSTATIC MASTER WATER MIXING CONTROL VALVE, THE TEMPERATURE IS ADJUSTED WITH THE HELP OF SPINDLE.

MCQUIRE 155A FIXTURE DRAIN – STRAIGHT DRAIN, CAST BRASS, CHROME–PLATED FINISH, OPEN GRID PO PLUG, 7/32” (5.5 MM) Ø HOLES SIZE, 17 GAUGE 32 MM (1-1/4”) Ø TAILPIECE, 17 GAUGE 152 MM (6”) LONG, BRASS LOCKNUT, HEAVY RUBBER BASIN WASHER FIBER FRICTION WASHER, ASME A112.18.2 CSA B125.2, CSA COMPLIANT

MCQUIRE LFBV170 SUPPLY – CONVERTIBLE™ COMMERCIAL FAUCET SUPPLY KIT, CONSISTING OF (2) STOP VALVES, (2) RISERS, (2) FLANGES (STANDARD), LEAD FREE BRASS BODY, CHROME–PLATED FINISH, 138 – 862 KPA (20 – 125 PSI) OPERATING PRESSURE, 4 TO 60 °C (40 TO 140 °F) OPERATING TEMPERATURE, CONVERTIBLE LOOSE KEY/TRIANGLE HANDLE, QUARTER TURN BALL VALVE, ANGLE STOP, C.P. WROUGHT STEEL DEEP BELL WALL FLANGE (STANDARD), C.P. PREFABRICATED 127 MM (5”) COPPER SWEAT TUBE EXTENSION NIPPLE, 305 MM (12”) C.P. LAVATORY FLEXIBLE COPPER RISER TUBES (STANDARD), 13 MM (1/2”) SWEAT INLET X 10 MM (3/8”) O.D. OUTLET, 82 °C (180 °F) MAXIMUM DURING HIGH–TEMPERATURE SYSTEM FLUSH, AB 100 COMPLIANT, ASME A112.18.1 COMPLIANT, ASME A112.18.2–2 (RISERS), CSA B125.2 COMPLIANT (RISERS), CERTIFIED TO NSF/ANSI 372, CERTIFIED TO NSF/ANSI 61, UPC COMPLIANT.

MCQUIRE 8872C P–TRAP – HEAVY CAST BRASS, ADJUSTABLE P–TRAP, 292 MM (11-1/2”) DISTANCE, WITH CLEANOUT PLUG, STEEL SHALLOW FLANGE, NEOPRENE GASKET, SLIPNUTS, 17 GAUGE SEAMLESS TUBULAR WALL BEND, ASME A112.18.2 CSA B125.2, CSA COMPLIANT

WATTS WCA–411–CA–481 CARRIER – WCA–411/WCA–411–WC, LAVATORY CARRIER, SINGLE FLOOR–MOUNTED LAVATORY CARRIER WITH CONCEALED ARMS, FOR CONCEALED ARM CARRIER, ADJUSTABLE ARMS, EPOXY COATED CAST IRON, INTEGRAL WELDED FEET, UPPER TIE ROD, HEAVY GAUGE STEEL OFFSET UPRIGHTS, BASIN LOCKING DEVICE, PLATED HARDWARE, LEVELLING SCREWS, WALL MOUNTED STEEL SUPPORT PLATE WITH PLATED HARDWARE.

LAV-2: LAVATORY –AMERICAN STANDARD 0495221.020 BASIN – OVALYN, UNDERMOUNT LAVATORY, VITREOUS CHINA, WHITE FINISH, FRONT OVERFLOW, UNGLAZED RIM, MOUNTING KIT SUPPLIED (047194–0070A), OVERALL DIMENSIONS: 435 MM (17-1/8”) LONG, 359 MM (14-1/8”) WIDE, 191 MM (7-1/2”) HIGH, BOWL DIMENSIONS: 383 MM (15-1/16”) LONG, 306 MM (12-1/16”) WIDE, 140 MM (5-1/2”) DEEP.

SLOAN EFX-250–BAT–CP–0.5GPM–IR–FCT FAUCET – BASYS®, COUNTER MOUNTED, AUTOMATIC NO–TOUCH, BATTERY POWERED, LAVATORY FAUCET, POLISHED CHROME FINISH, SINGLE HOLE CENTERSET, METAL, FLEXIBLE HIGH PRESSURE SUPPLY HOSES WITH 10 MM (3/8”) COMPRESSION CONNECTIONS, 1.9 LPM (0.5 GPM) MAXIMUM FLOWRATE, MULTI–LAMINAR SPRAY OUTLET, FIXED FIXED SPOUT, 133 MM (5-1/4”) SPOUT REACH, 164 MM (6-7/16”) HIGH, DOUBLE INFRARED SENSORS WITH AUTOMATIC SETTING FEATURE, SOLENOID HOUSED IN REMOVABLE CARRIER THAT INCLUDES SUPPLY STRAINER, ABOVE DECK INDIVIDUAL DIAGNOSTIC INDICATORS FOR BATTERY LIFE, SOLENOID CONDITION, AND POWER–UP MODE, FOUR (4) AA–SIZE ALKALINE BATTERIES, MIXING VALVE ORDERED SEPARATELY, INCLUDES ALL MOUNTING HARDWARE, VANDAL–RESISTANT SPRAY INSERT, KEY HOUSED INSIDE FAUCET BODY, INTEGRAL ABOVE DECK WATER SUPPLY SHUT OFF, LINE PURGE MODE.

MCQUIRE 155A FIXTURE DRAIN – STRAIGHT DRAIN, CAST BRASS, CHROME–PLATED FINISH, OPEN GRID PO PLUG, 7/32” (5.5 MM) Ø HOLES SIZE, 17 GAUGE 32 MM (1-1/4”) Ø TAILPIECE, 17 GAUGE 152 MM (6”) LONG, BRASS LOCKNUT, HEAVY RUBBER BASIN WASHER FIBER FRICTION WASHER, ASME A112.18.2 CSA B125.2, CSA COMPLIANT

MCQUIRE LFBV170 SUPPLY – CONVERTIBLE™ COMMERCIAL FAUCET SUPPLY KIT, CONSISTING OF (2) STOP VALVES, (2) RISERS, (2) FLANGES (STANDARD), LEAD FREE BRASS BODY, CHROME–PLATED FINISH, 138 – 862 KPA (20 – 125 PSI) OPERATING PRESSURE, 4 TO 60 °C (40 TO 140 °F) OPERATING TEMPERATURE, CONVERTIBLE LOOSE KEY/TRIANGLE HANDLE, QUARTER TURN BALL VALVE, ANGLE STOP, C.P. WROUGHT STEEL DEEP BELL WALL FLANGE (STANDARD), C.P. PREFABRICATED 127 MM (5”) COPPER SWEAT TUBE EXTENSION NIPPLE, 305 MM (12”) C.P. LAVATORY FLEXIBLE COPPER RISER TUBES (STANDARD), 13 MM (1/2”) SWEAT INLET X 10 MM (3/8”) O.D. OUTLET, 82 °C (180 °F) MAXIMUM DURING HIGH–TEMPERATURE SYSTEM FLUSH, AB 100 COMPLIANT, ASME A112.18.1 COMPLIANT, ASME A112.18.2–2 (RISERS), CSA B125.2 COMPLIANT (RISERS), CERTIFIED TO NSF/ANSI 372, CERTIFIED TO NSF/ANSI 61, UPC COMPLIANT.

MCQUIRE 8872C P–TRAP – HEAVY CAST BRASS, ADJUSTABLE P–TRAP, 292 MM (11-1/2”) DISTANCE, WITH CLEANOUT PLUG, STEEL SHALLOW FLANGE, NEOPRENE GASKET, SLIPNUTS, 17 GAUGE SEAMLESS TUBULAR WALL BEND, ASME A112.18.2 CSA B125.2, CSA COMPLIANT

LAV-3:LAVATORY –AMERICAN STANDARD 0475047.020 BASIN – DROP–IN LAVATORY, VITREOUS CHINA, WHITE FINISH, SINGLE HOLE CENTERSET, FRONT OVERFLOW, WITH FAUCET LEDGE, OVERALL DIMENSIONS: 518 MM (20–3/8”) LONG, 441 MM (17–3/8”) WIDE, 178 MM (7”) HIGH, BOWL DIMENSIONS: 406 MM (16”) LONG, 254 MM (10”) WIDE, 143 MM (5–5/8”) DEEP.

SLOAN EFX-250–BAT–CP–0.5GPM–IR–FCT FAUCET – BASYS®, COUNTER MOUNTED, AUTOMATIC NO–TOUCH, BATTERY POWERED, LAVATORY FAUCET, POLISHED CHROME FINISH, SINGLE HOLE CENTERSET, METAL, FLEXIBLE HIGH PRESSURE SUPPLY HOSES WITH 10 MM (3/8”) COMPRESSION CONNECTIONS, 1.9 LPM (0.5 GPM) MAXIMUM FLOWRATE, MULTI–LAMINAR SPRAY OUTLET, FIXED FIXED SPOUT, 133 MM (5-1/4”) SPOUT REACH, 164 MM (6-7/16”) HIGH, DOUBLE INFRARED SENSORS WITH AUTOMATIC SETTING FEATURE, SOLENOID HOUSED IN REMOVABLE CARRIER THAT INCLUDES SUPPLY STRAINER, ABOVE DECK INDIVIDUAL DIAGNOSTIC INDICATORS FOR BATTERY LIFE, SOLENOID CONDITION, AND POWER–UP MODE, FOUR (4) AA–SIZE ALKALINE BATTERIES, MIXING VALVE ORDERED SEPARATELY, INCLUDES ALL MOUNTING HARDWARE, VANDAL–RESISTANT SPRAY INSERT, KEY HOUSED INSIDE FAUCET BODY, INTEGRAL ABOVE DECK WATER SUPPLY SHUT OFF, LINE PURGE MODE.

MCQUIRE 155A FIXTURE DRAIN – STRAIGHT DRAIN, CAST BRASS, CHROME–PLATED FINISH, OPEN GRID PO PLUG, 7/32” (5.5 MM) Ø HOLES SIZE, 17 GAUGE 32 MM (1-1/4”) Ø TAILPIECE, 17 GAUGE 152 MM (6”) LONG, BRASS LOCKNUT, HEAVY RUBBER BASIN WASHER FIBER FRICTION WASHER, ASME A112.18.2 CSA B125.2, CSA COMPLIANT

MCQUIRE LFBV170 SUPPLY – CONVERTIBLE™ COMMERCIAL FAUCET SUPPLY KIT, CONSISTING OF (2) STOP VALVES, (2) RISERS, (2) FLANGES (STANDARD), LEAD FREE BRASS BODY, CHROME–PLATED FINISH, 138 – 862 KPA (20 – 125 PSI) OPERATING PRESSURE, 4 TO 60 °C (40 TO 140 °F) OPERATING TEMPERATURE, CONVERTIBLE LOOSE KEY/TRIANGLE HANDLE, QUARTER TURN BALL VALVE, ANGLE STOP, C.P. WROUGHT STEEL DEEP BELL WALL FLANGE (STANDARD), C.P. PREFABRICATED 127 MM (5”) COPPER SWEAT TUBE EXTENSION NIPPLE, 305 MM (12”) C.P. LAVATORY FLEXIBLE COPPER RISER TUBES (STANDARD), 13 MM (1/2”) SWEAT INLET X 10 MM (3/8”) O.D. OUTLET, 82 °C (180 °F) MAXIMUM DURING HIGH–TEMPERATURE SYSTEM FLUSH, AB 100 COMPLIANT, ASME A112.18.1 COMPLIANT, ASME A112.18.2–2 (RISERS), CSA B125.2 COMPLIANT (RISERS), CERTIFIED TO NSF/ANSI 372, CERTIFIED TO NSF/ANSI 61, UPC COMPLIANT.

MCQUIRE 8872C P–TRAP – HEAVY CAST BRASS, ADJUSTABLE P–TRAP, 292 MM (11-1/2”) DISTANCE, WITH CLEANOUT PLUG, STEEL SHALLOW FLANGE, NEOPRENE GASKET, SLIPNUTS, 17 GAUGE SEAMLESS TUBULAR WALL BEND, ASME A112.18.2 CSA B125.2, CSA COMPLIANT

LAV-4: LAVATORY –AMERICAN STANDARD 0356421.020 BASIN – WALL–HUNG LAVATORY, VITREOUS CHINA, WHITE FINISH, SINGLE HOLE CENTERSET, FRONT OVERFLOW, WITH FAUCET LEDGE, 102 MM (4”) HIGH BACKSPASH, FOR WALL, HANGER (INCLUDED) OR CONCEALED ARMS (BY OTHERS), OVERALL DIMENSIONS: 540 MM (21-1/4”) LONG, 464 MM (18-1/4”) WIDE, BOWL DIMENSIONS: 254 MM (10”) LONG, 381 MM (15”) WIDE, 165 MM (6-1/2”) DEEP.

AMERICAN STANDARD 7075100.002 FAUCET – COLONY®, COUNTER MOUNTED, MANUAL, SINGLE HANDLE, LAVATORY FAUCET, POLISHED CHROME FINISH, SINGLE HOLE CENTERSET, LEAD FREE ANSI/NSF 61 AND ANSI/NSF 372 COMPLIANT METAL BODY, 610 MM (24”) COLOUR–CODED BRAIDED FLEXIBLE SUPPLY HOSES WITH 10 MM (3/8”) COMPRESSION CONNECTIONS, CERAMIC DISC CARTRIDGE, 4.5 LPM (1.2 GPM) MAXIMUM FLOWRATE, PRESSURE COMPENSATING AERATOR, FIXED MID–ARC SPOUT, 111 MM (4-3/8”) SPOUT REACH, 157 MM (6-3/16”) HIGH, LEVER HANDLE, METAL POP–UP DRAIN.

MCQUIRE 155A FIXTURE DRAIN – STRAIGHT DRAIN, CAST BRASS, CHROME–PLATED FINISH, OPEN GRID PO PLUG, 7/32” (5.5 MM) Ø HOLES SIZE, 17 GAUGE 32 MM (1-1/4”) Ø TAILPIECE, 17 GAUGE 152 MM (6”) LONG, BRASS LOCKNUT, HEAVY RUBBER BASIN WASHER FIBER FRICTION WASHER, ASME A112.18.2 CSA B125.2, CSA COMPLIANT

MCQUIRE LFBV170 SUPPLY – CONVERTIBLE™ COMMERCIAL FAUCET SUPPLY KIT, CONSISTING OF (2) STOP VALVES, (2) RISERS, (2) FLANGES (STANDARD), LEAD FREE BRASS BODY, CHROME–PLATED FINISH, 138 – 862 KPA (20 – 125 PSI) OPERATING PRESSURE, 4 TO 60 °C (40 TO 140 °F) OPERATING TEMPERATURE, CONVERTIBLE LOOSE KEY/TRIANGLE HANDLE, QUARTER TURN BALL VALVE, ANGLE STOP, C.P. WROUGHT STEEL DEEP BELL WALL FLANGE (STANDARD), C.P. PREFABRICATED 127 MM (5”) COPPER SWEAT TUBE EXTENSION NIPPLE, 305 MM (12”) C.P. LAVATORY FLEXIBLE COPPER RISER TUBES (STANDARD), 13 MM (1/2”) SWEAT INLET X 10 MM (3/8”) O.D. OUTLET, 82 °C (180 °F) MAXIMUM DURING HIGH–TEMPERATURE SYSTEM FLUSH, AB 100 COMPLIANT, ASME A112.18.1 COMPLIANT, ASME A112.18.2–2 (RISERS), CSA B125.2 COMPLIANT (RISERS), CERTIFIED TO NSF/ANSI 372, CERTIFIED TO NSF/ANSI 61, UPC COMPLIANT.

MCQUIRE 8872C P–TRAP – HEAVY CAST BRASS, ADJUSTABLE P–TRAP, 292 MM (11-1/2”) DISTANCE, WITH CLEANOUT PLUG, STEEL SHALLOW FLANGE, NEOPRENE GASKET, SLIPNUTS, 17 GAUGE SEAMLESS TUBULAR WALL BEND, ASME A112.18.2 CSA B125.2, CSA COMPLIANT

WATTS WCA–411 CARRIER – WCA–411/WCA–411–WC, LAVATORY CARRIER, SINGLE FLOOR–MOUNTED LAVATORY CARRIER WITH CONCEALED ARMS, FOR CONCEALED ARM CARRIER, ADJUSTABLE ARMS, EPOXY COATED CAST IRON, INTEGRAL WELDED FEET, UPPER TIE ROD, HEAVY GAUGE STEEL OFFSET UPRIGHTS, BASIN LOCKING DEVICE, PLATED HARDWARE, LEVELLING SCREWS.

MS-1: FLOOR MOUNTED, MOP SERVICE SINKS STERN WILLIAMS SB-900–T–35–T–40–BP SINK – SINGLE COMPARTMENT SINK, MOP SERVICE SINKS, WITH OVERALL DIMENSION 610 MM (24”) LONG, 610 MM (24”) WIDE, 305 MM (12”) HIGH, CONSTRUCTION FROM PRECAST TERRAZZO, BOWL DIMENSIONS ARE 546 MM (21-1/2”) LONG, 546 MM (21-1/2”) WIDE, 254 MM (10”) DEEP, PEARL GREY MARBLE CHIPS AND WHITE PORTLAND CEMENT, 76 MM (3”) PIPE SIZE, CAST INTEGRALLY AND PROVIDES FOR A CAULKED LEAD CONNECTION NOT LESS THAN 25 MM (1”) DEEP TO A 76 MM (3”) PIPE, FLAT STAINLESS STEEL STRAINER, WITHOUT TILING FLANGE, WITH STAINLESS STEEL CAP, HOSE AND WALL HOOK, MOP HANGER, SPLASH CATCHER.

CHICAGO FAUCETS 897–RCF FAUCET – WALL–HUNG, MANUAL, TWO HANDLES, MOP SINK FAUCET, ROUGH CHROME PLATED FINISH, 194 – 213 MM (7-5/8” TO 8-3/8”) ADJUSTABLE CENTERSET, ROUND WALL ESCUTCHEONS, BRASS CONSTRUCTION, ADJUSTABLE SUPPLY ARMS, 1/4 TURN CERAMIC CARTRIDGE, NO FLOW RESTRICTOR, THREADED HOSE END, SPOUT WITH PAIL HOOK, 146 MM (5-3/4”) SPOUT REACH, 273 MM (10-3/4”) HIGH, TOP BRACE, 60 MM (2-3/8”) LEVER HANDLE WITH INDEXED BUTTONS.

LAWLER 570–86820 MIXING VALVE – POINT OF USE AND MASTER CONTROLLED FIXTURES, THERMOSTATIC MASTER WATER MIXING CONTROL VALVE, LEAD FREE BRASS BODY CONSTRUCTION, NICKEL PLATED FINISH, 1.9 – 30 LPM (0.5 – 8 GPM) RANGE FOR FLOWRATE ,11 LPM (3 GPM) TEMPERED FLOWRATE @ 5 PSI PRESSURE DROP, 4–7/8” (124 MM) HEIGHT, ASSE 1070 APPROVED CERTIFIED TO CSA B125.3 FOR ASSE 1070 APPLICATIONS, 3/8” MNPT (9.5 MM) INLET, 95–115 °F OUTLET WATER TEMPERATURE RANGE, 3/8” MNPT (9.5 MM) OUTLET, INTERNAL CHECKS, 7 GPM FLOWRATE @ 45 PSI

CS-1: BF COUNTER MOUNTED, DROP–IN, COMMERCIAL SINKS FRANKE COMMERCIAL ALBS4606P–1–1 SINK – SINGLE COMPARTMENT SINK, SINGLE HOLE CENTERSET, COMMERCIAL SINKS, WITH OVERALL DIMENSION 460 MM (18-1/8”) LONG, 478 MM (18-13/16”) WIDE, 152 MM (6”) HIGH, CONSTRUCTED FROM 18 GAUGE TYPE 304 STAINLESS STEEL, BOWL DIMENSIONS ARE 406 MM (16”) LONG, 356 MM (14”) WIDE, 152 MM (6”) DEEP, POLISHED TO #4 SATIN FINISH, CENTER WASTE LOCATION, 38 MM (1-1/2”) (DN38) BRASS TAILPIECE, 89 MM (3-1/2”) CRUMB CUP STRAINER, CODES AND COMPLIANCES: ANSI A117.1 COMPLIANT, ASME A112.19.3 COMPLIANT, CSA B45.4 COMPLIANT.

CHICAGO FAUCETS 430–ABCP FAUCET – COUNTER MOUNTED, MANUAL, SINGLE HANDLE, SINK FAUCET, POLISHED CHROME FINISH, SINGLE HOLE CENTERSET, LEAD FREE ANSI/NSF 61 COMPLIANT, CERAMIC CARTRIDGE WITH VOLUME CONTROL, 5.7 LPM (1.5 GPM) MAXIMUM FLOWRATE, PRESSURE COMPENSATING ECONO–FLO™ NON–AERATED LAMINAR SPRAY OUTLET, TUBULAR CAST BRASS SPOUT, 229 MM (9”) SPOUT REACH, 146 MM (5-3/4”) HIGH, 108 MM (4-1/4”) LEVER HANDLE, 13 MM (1/2”) NPSM SUPPLY INLET, INCLUDES HOT LIMIT SAFETY STOP.

LAWLER 570–86820 MIXING VALVE – POINT OF USE AND MASTER CONTROLLED FIXTURES, THERMOSTATIC MASTER WATER MIXING CONTROL VALVE, LEAD FREE BRASS BODY CONSTRUCTION, NICKEL PLATED FINISH, 1.9 – 30 LPM (0.5 – 8 GPM) RANGE FOR FLOWRATE, 11 LPM (3 GPM) TEMPERED FLOWRATE @ 5 PSI PRESSURE DROP, THE TEMPERATURE IS ADJUSTED WITH THE HELP OF SPINDLE, 4-7/8” (124 MM) HEIGHT, ASSE 1070 APPROVED CERTIFIED TO CSA B125.3 FOR ASSE 1070 APPLICATIONS, 3/8” MNPT (9.5 MM) INLET, 7 GPM FLOWRATE @ 45 PSI

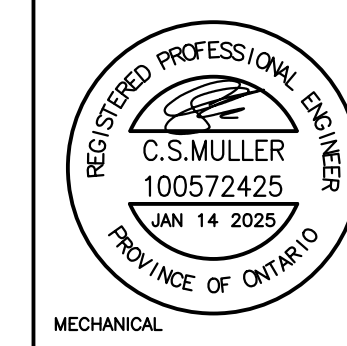
MCQUIRE LFCX165LK SUPPLY – ICV DEFENDER, LEAD FREE, WITH CHROME–PLATED FINISH, INTEGRAL CHECK SUPPLY KIT, FAUCET, PIPE TO COMPRESSION CONNECTION, 3/8” I.P.S X 3/8” O.D CONNECTION, SHALLOW WALL FLANGE, LOOSE KEY HANDLE, FULL TURN BRASS STEM, 305 MM (12”) CHROME–PLATED RISERS, CODES AND COMPLIANCES: NSF/ANSI 61 & 372, UPC

MCQUIRE PWB089 P–TRAP – MOLDED CLOSED CELL VINYL (ANTI–MICROBIAL) WRAPPED CAST BRASS, GLOSSY WHITE, WITH CLEANOUT, ASME A112.18.2, CSA B125.2

0	ISSUED FOR PERMIT AND TENDER	2025.01.14	CSM
NO.	DESCRIPTION	DATE	BY

REVISIONS

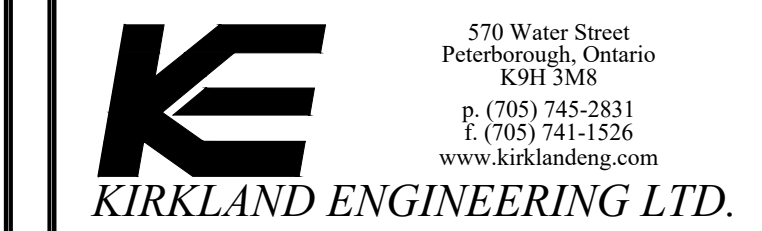
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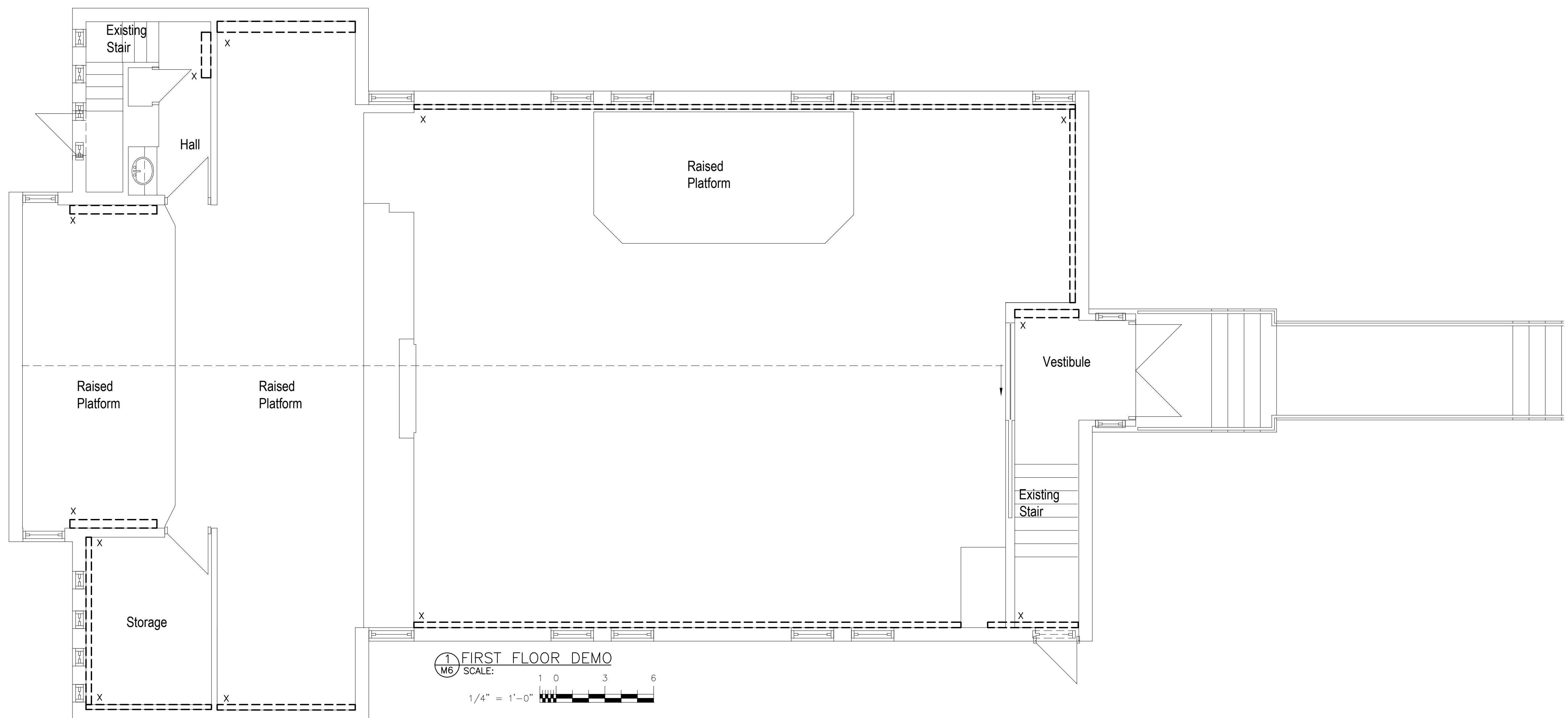
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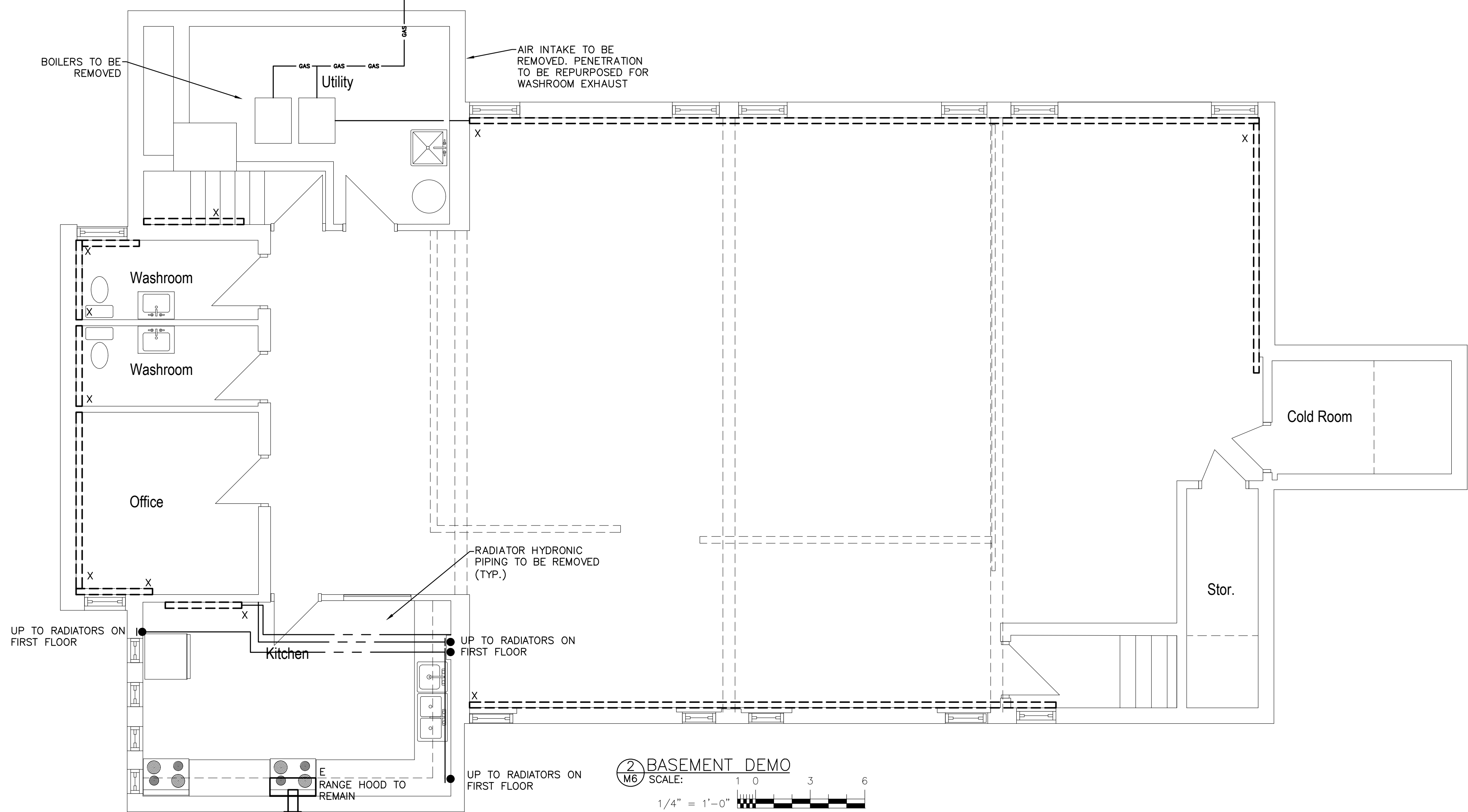
PROJECT
**SAINT ALBANS NURSERY
 TWO CHILDCARE
 RENOVATIONS**
 567 Monaghan Road
 Peterborough, ON.

TITLE
**PLUMBING FIXTURE
 SPECIFICATIONS**

DESIGN	CSM	SCALE N.T.S.
DRAWN	KCS	DWG NO.
CHECKED	CRM	M5
APPROVED	CRM	
PROJECT	7465	



1 FIRST FLOOR DEMO
 SCALE: 1/4" = 1'-0"
 1 0 3 6



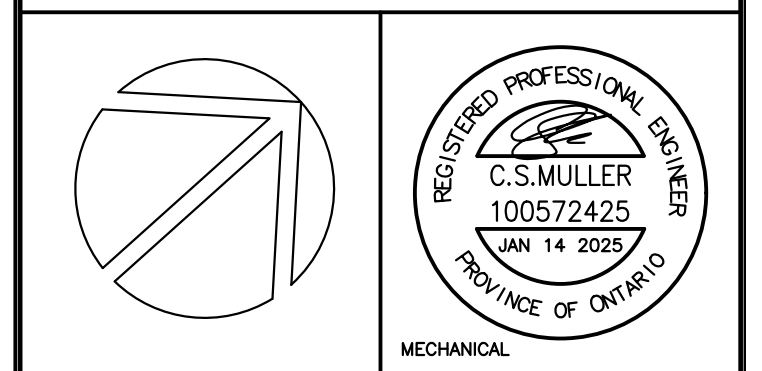
2 BASEMENT DEMO
 SCALE: 1/4" = 1'-0"
 1 0 3 6

NOTES:
 1. ALL RADIATORS AND THEIR PIPING TO BE REMOVED.

LEGEND
 X EXISTING TO BE REMOVED
 E EXISTING TO REMAIN

NO.	DESCRIPTION	DATE	BY
0	ISSUED FOR PERMIT AND TENDER	2024.01.14	CSM

REVISIONS
 Kirkland Engineering Ltd BCIN: 28857



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PROJECT
SAINT ALBANS NURSERY RENOVATIONS

567 Monaghan Road
 Peterborough, ON.

TITLE
UPPER & LOWER FLOOR DEMOLITION PLAN

DESIGN	CSM	SCALE AS NOTED
DRAWN	KCS	DWG NO.
CHECKED	CRM	M6
APPROVED	CRM	
PROJECT	7465	