

LEGEND - PLUMBING	
ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS.	
REFER	DESCRIPTION
---	DOMESTIC COLD WATER PIPING
---	DOMESTIC HOT WATER PIPING
---	DOMESTIC HOT WATER RECIRC. PIPING
---	VENT PIPING
---	SANITARY PIPING ABOVE FLOOR
---	SANITARY PIPING BELOW GRADE OR FLOOR
~~~~~	PIPING TO BE REMOVED
~~~~~	HEAT TRACED PIPING
---	CONNECTION OF NEW AND EXISTING PIPING
---	CAPPED PIPE
FD	FLOOR DRAIN
FFD	FUNNEL FLOOR DRAIN
HD	HUB DRAIN
RD	ROOF DRAIN
RD	ROOF DRAIN ABOVE
CO	CLEANOUT IN FLOOR
CO	CLEANOUT IN LINE OR STACK
M	WATER METER
IS	ISOLATION VALVE
CB	CIRCUIT BALANCING VALVE
CV	CHECK VALVE
ST	STRAINER
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
3-W	3-WAY VALVE
TR	TEMPERATURE & PRESSURE RELIEF VALVE
CTE	CONNECT TO EXISTING
U	UNION
PG	PRESSURE GAUGE
T	THERMOMETER
P	PUMP
PD	PIPE DOWN
PU	PIPE UP
PU & PD	PIPE UP & DOWN
PT	PIPE TEE
E	DENOTES EXISTING
E	EXISTING PIPING
FE	FIRE EXTINGUISHER - SURFACE MOUNTED

LEGEND - HVAC	
ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS.	
REFER	DESCRIPTION
---	EXISTING PIPING TO REMAIN
---	POSITIVE PRESSURE (SUPPLY) DUCT UP
---	POSITIVE PRESSURE (SUPPLY) DUCT UP
---	NEGATIVE PRESSURE (RETURN) DUCT UP
---	POSITIVE PRESSURE (SUPPLY) DUCT DOWN
---	POSITIVE PRESSURE (SUPPLY) DUCT DOWN
---	NEGATIVE PRESSURE (RETURN) DUCT DOWN
---	EXISTING DUCTWORK TO BE REMOVED
---	EXISTING DUCTWORK TO REMAIN
---	NEW DUCTWORK
---	SUPPLY AIR DIFFUSER (SQUARE)
---	SUPPLY AIR DIFFUSER (ROUND)
---	SIDEWALL GRILLE
---	RETURN/EXHAUST GRILLE
---	FULL RADIUS DUCT CONNECTION
---	TAP-IN DUCT CONNECTION
---	ROUND DUCT CONNECTION
---	TURNING VANES
FD	FIRE DAMPER
FE	EXISTING FIRE DAMPER
MD	MOTORIZED DAMPER
EXMD	EXISTING MOTORIZED DAMPER
AD	ACCESS DOOR
BD	BALANCING DAMPER
OBDD	OPPOSED BLADE BALANCING DAMPER
OD	OPEN ENDED DUCT
OT	THERMOSTAT
CAP	CAP

MECHANICAL DRAWING LIST	
M1.0	LEGENDS, GENERAL NOTES, EQUIPMENT SCHEDULE KEY PLANS
M2.0	DEMOLITION PLAN
M3.0	PROPOSED PLUMBING AND DRAINAGE LAYOUT PROPOSED HVAC LAYOUT
M4.0	MECHANICAL SPECIFICATIONS AND DETAILS

GENERAL NOTES	
REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR COORDINATION OF GRILLES, DIFFUSERS AND OTHER ELEMENTS.	
IN ALL INSTANCES THE NEED FOR ACCESS DOORS IN GWB CEILINGS SHOULD BE AVOIDED IF POSSIBLE. WHERE INSTALLATION OF COMPONENTS WHICH REQUIRE ACCESS CANNOT BE AVOIDED, SUBMIT (DIMENSIONED) LAYOUT ON ARCHITECTURAL REFLECTED CEILING PLANS TO CONSULTANTS FOR APPROVAL PRIOR TO INSTALLATION OF COMPONENT.	
EXISTING ITEMS TO BE REMOVED REMAIN THE PROPERTY OF THE OWNER AND SHALL BE DELIVERED TO A LOCATION ON SITE DESIGNATED BY THE OWNER. IF THE OWNER DECLARES NO INTEREST IN THE REMOVED ITEMS, ASSUME OWNERSHIP AND REMOVE THE ITEMS FROM THE SITE.	
REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATION FOR PHASING AND STAGING.	

PLUMBING NOTES	
1. CONTRACTOR IS TO VERIFY CONNECTION POINTS TO SERVICES WITH OTHER TRADES ON SITE.	
2. CONTRACTOR IS TO CLEAR DUCTWORK WHEN INSTALLING NEW PIPING. CLEARANCES TO BE VERIFIED ON SITE.	
3. PROVIDE A CLEANOUT AT THE BOTTOM OF EVERY SOIL AND WASTE STACK THAT CONNECTS TO A HORIZONTAL DRAINAGE PIPE.	
4. PROVIDE A CLEANOUT FROM EACH PLUMBING FIXTURE WHERE REQUIRED BY BUILDING CODE, PART 7 - PLUMBING.	
5. CHECK AND VERIFY LOCATION OF ALL PIPES, DUCTS AND EQUIPMENT WITH ALL OTHER TRADES TO PREVENT INTERFERENCE. REMOVAL OR RELOCATION OF ANY SUCH WORK INTERFERING WITH WORK OF OTHER TRADES IS THE RESPONSIBILITY OF THE MECHANICAL TRADE CONCERNED UNLESS OTHERWISE APPROVED IN WRITING.	
6. ALL PLUMBING FIXTURES INCLUDING FLOOR DRAINS (HUB, FUNNEL, FLOOR DRAINS, TRENCH DRAINS) TO BE TRAPPED AND VENTED AS REQUIRED BY BUILDING CODE, PART 7 - PLUMBING.	
7. FOR MOUNTING HEIGHT OF ALL PLUMBING FIXTURES REFER TO ARCHITECTURAL DRAWINGS.	
8. PROVIDE ACCESS DOOR FOR ALL VALVES LOCATED ABOVE DRY WALL CEILING.	
9. PROVIDE ACCESS DOOR FOR ALL CLEANOUTS LOCATED ABOVE DRY WALL CEILING.	
10. IN ALL INSTANCES THE NEED FOR ACCESS DOOR IN GWB CEILINGS SHOULD BE AVOIDED IF POSSIBLE. WHERE INSTALLATION OF COMPONENTS WHICH REQUIRE ACCESS CANNOT BE AVOIDED, SUBMIT (DIMENSIONED) LAYOUT ON ARCHITECTURAL REFLECTED CEILING PLANS TO CONSULTANTS FOR APPROVAL PRIOR TO INSTALLATION OF COMPONENT.	
11. ALL DISTURBED SERVICES AFTER PIPE REMOVAL OR REROUTING TO BE FILLED-IN WITH APPROPRIATE MATERIAL TO MAINTAIN FIRE SEPARATION AND PATCHED TO MATCH EXISTING OR NEW FINISHES.	
12. CONTRACTOR IS TO REMOVE ALL OBSOLETE PIPING WHEREVER POSSIBLE.	
13. CONTRACTOR IS TO ENSURE THAT ALL EXISTING PIPING SERVING EXISTING AREAS REMAIN IN SERVICE UNTIL THESE AREAS ARE RECONNECTED TO NEW SERVICES. ONLY THEN OBSOLETE PIPING IS TO BE REMOVED AS SHOWN.	
14. BEFORE CUTTING ANY HOLES THROUGH THE EXISTING SLAB REFER TO EXISTING STRUCTURAL DRAWINGS FOR GENERAL REQUIREMENTS.	
15. AFTER PIPE REMOVAL ALL EXISTING OPENINGS IN FIRE SEPARATION ARE TO BE FILLED-IN TO MAINTAIN INTEGRITY OF THAT FIRE SEPARATION.	
16. RECONNECT VENTS FROM EXISTING EQUIPMENT AND PLUMBING FIXTURES WHICH ARE TO REMAIN TO NEW VENTS AS REQUIRED.	
17. PROVIDE SIGN IDENTIFYING LOCATION OF ALL VALVES INSTALLED IN CEILING SPACE.	
18. ALL WATER, SANITARY, SEWER AND VENT COPPER PIPING WITH SOLDER JOINTS SHALL BE LEAD FREE. DO NOT INSTALL WATER LINES IN OUTSIDE WALL WHERE THEY MAY FREEZE, UNLESS BOTH THE WALL AND THE PIPES ARE PROPERLY INSULATED.	
19. INSTALL SHUT-OFF VALVES AT EACH PLUMBING FIXTURE AND EACH EQUIPMENT CONNECTION.	
20. REFER TO ARCHITECTURAL FOR OWNER SUPPLIED EQUIPMENT. CONFIRM ALL MECHANICAL REQUIREMENTS AND PROVIDE TO SUIT.	

EXHAUST FAN SCHEDULE											
REFER	AREA SERVED	AIR FLOW CFM	E.S.P. IN.W.C.	ELECTRICAL		DRIVE	FAN SPEED RPM	UNIT WEIGHT LBS	SOUND LEVEL dBA	CONTROL	MANUFACTURER, MODEL AND ACCESSORIES
				MOTOR SIZE HP	VOLTAGE						
EF-1	UNIVERSAL WASHROOM	122	0.744	1/3	120V/1Ø/60Hz	DIRECT	1725	31	-	SENSOR	COOK 101C17D OR60; COMPLETE WITH ROOF CURB

NOTES: 1. ALL FANS SHALL INCLUDE VIBRATION ISLOATION AND STARTERS.
2. REFER TO THE CONTROL SCHEMATICS AND SEQUENCES OF OPERATION.
3. ACCEPTABLE MANUFACTURERS SUBJECT TO SHOP DRAWING REVIEW: CARNES, GREENHECK, REVERSOMATIC, BROAN.

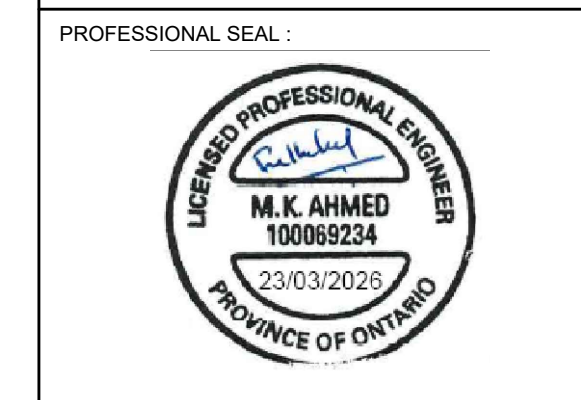
PLUMBING FIXTURE CONNECTION SCHEDULE												
TAG	FIXTURE NAME	SANITARY		VENT		DCWS		DHWS		TEMPERED		REMARKS
		MM	INS	MM	INS	MM	INS	MM	INS	MM	INS	
W1-BF	WATER CLOSET FLOOR MOUNTED- FLUSHOMETER -EXPOSED-MANUAL	75	3	38	1.5	38	1.50	-	-	-	-	1. American Standard Madera FloWise 3461001.020 Barrier free Toilet, Floor mounted with floor outlet, Toilet operates in the range of 4.2 to 6.0 LPF (1.1 - 1.6 GPF), Vitreous china, White finish, Ever Clean antimicrobial surface, Elongated bowl, 419 mm (16-1/2") rim height, 254 mm (10") to 305 mm (12") rough-in from wall to the center of waste outlet, Direct-fed siphon jet flush action, 38 mm (1-1/2") top spud, Flush valve by others, Fully-glazed 54 mm (21/8") trapway, Condensation channel, Toilet seat not included, Two (2) colour matched bolt caps with retainers (481310-100). Overall Dimensions: 356 mm (14") wide x 718 mm (28-1/4") from finished wall Water Surface: 254 x 305 mm (10" x 12") water surface are. 2. Centoco #500STSCFE-001 FAST-N-LOCK, for elongated bowl, Open front, Heavy-duty, For commercial applications, Polypropylene, Toilet seat, Less seat cover, Plastic commercial check hinges, and Stainless-steel hinge pin, Specified in White finish, 3. SL-ROYAL 111-1.28 ROYAL Manual Exposed Water closet flushometer, 38 mm (1-1/2") spud coupling For top spud toilet, constructed from Semi-red brass, Polished chrome finish, High Efficiency 4.8 LPF (1.28 GPF), Chloramine resistant PERMEX®synthetic rubber diaphragm, Metal oscillating handle with triple seal handle packing, Flush tube for 292 mm (11-1/2") rough-in, Adjustable tailpiece, 25mm (1") I.P.S. screwdriver Bak-Chek®angle control stop with free spinning vandal-resistant stop cap, Dual-filtered fixed bypass, Sweat solder adapter kit with cover tube, High back pressure vacuum breaker, Inlet located right of valve, 25 mm (1") supply pipe, Cast wall flange with set screw, Non-hold-open, no external volume adjustment, Pressure Range: 103 - 552 kPa (15 - 80 PSI) operating water pressure Compliances and certifications: Requires less than 5 pounds of force to activate (push-button), cUPC compliant. 4. CM-16104 wall mounting, back rest, solid core plastic laminate panel back, Antique white, 305 mm (12") wide, 102 mm (4") high, 8" (204 mm), 18 gauge stainless steel bar with #4 gloss with flanges and covers, concealed snap flanges and mounting hardware included, Provide adequate backing in wall for support and comply to local codes for barrier free requirements
L1-BF	WALL HUNG LAVATORY- TWO HANDLE FAUCET	50	2	32	1.25	13	0.50	13	0.50	13	0.5	1. American Standard Murro with Ever clean #0954.004EC/0059.020EC Basin, 540mm x 520mm x 165mm (21-1/4" x 20-1/2" x 6-1/2") high, vitreous china, for carrier with concealed arms, rear overflow, recessed self-draining faucet ledge, semi-pedestal P-trap cover. 2. Chicago Faucets #802-VCP-317VP-XK-E2805 Two handle faucet, 4" (102mm) centerset, solid brass body construction, ceramic 1/4 turn cartridge, with Vandal Resistant 1.9LPM (0.5 GPM), aerator outlet, metal red and blue index buttons 102mm (4") long wrist blade handle with vandal resistant screw. 3. McGuire #155AC open grid drain, chrome plated cast brass one piece top, 1.5mm (1/16") tubular 32mm (1-1/4") tailpiece. 4. McGuire #H170BVRB Faucet Supplies, chrome finish polished brass, 13mm (1/2") I. D. Inlet x 127mm (5") horizontal extension tubes, combination V. P. Loose key handle, escutcheon and stainless steel braided flexible riser. 5. McGuire #8872C P-Trap, heavy cast brass adjustable body, with slip nut, 32mm (1-1/4") size, shallow wall flange and seamless tubular wall bend 6. Watts #TCA-411, Carrier, mounted on concrete floor, with epoxy coated cast iron concealed arms with sliding adjustable arm brackets, heavy gauge steel uprights with integral welded feet. Minimum space required: for one unit: 102mm (4") for two to six units in a row: 152mm (6") finished metal stud wall to back of pipe space.
FD	FLOOR DRAIN	75	3	38	1.5	-	-	-	-	-	-	REFER TO SPECIFICATIONS
TSP	TRAP SEAL PRIMER	-	-	-	-	10/13	0.38/0.50	-	-	-	-	ONE - 10MM/0.38" PER FD, FFD, HD, PD

ELECTRIC HEATER SCHEDULE					
REFER	HEATING	ELECTRICAL	DIMENSIONS LXWXH MM	WEIGHT KG	MANUFACTURER, MODEL AND ACCESSORIES
	TOTAL MBH	VOLTAGE			
EH-1	3.5	240V/1/60Hz	690 X 132 X 357	14.5	OUELLET ELECTRIC HEATING, MODEL: OPI1000.

The Contractor shall verify all dimensions prior to commencement of the work. All print and specifications are the property of the Architect and must be returned upon completion of the work.

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1	Issued for Tender	24 th Mar-2026
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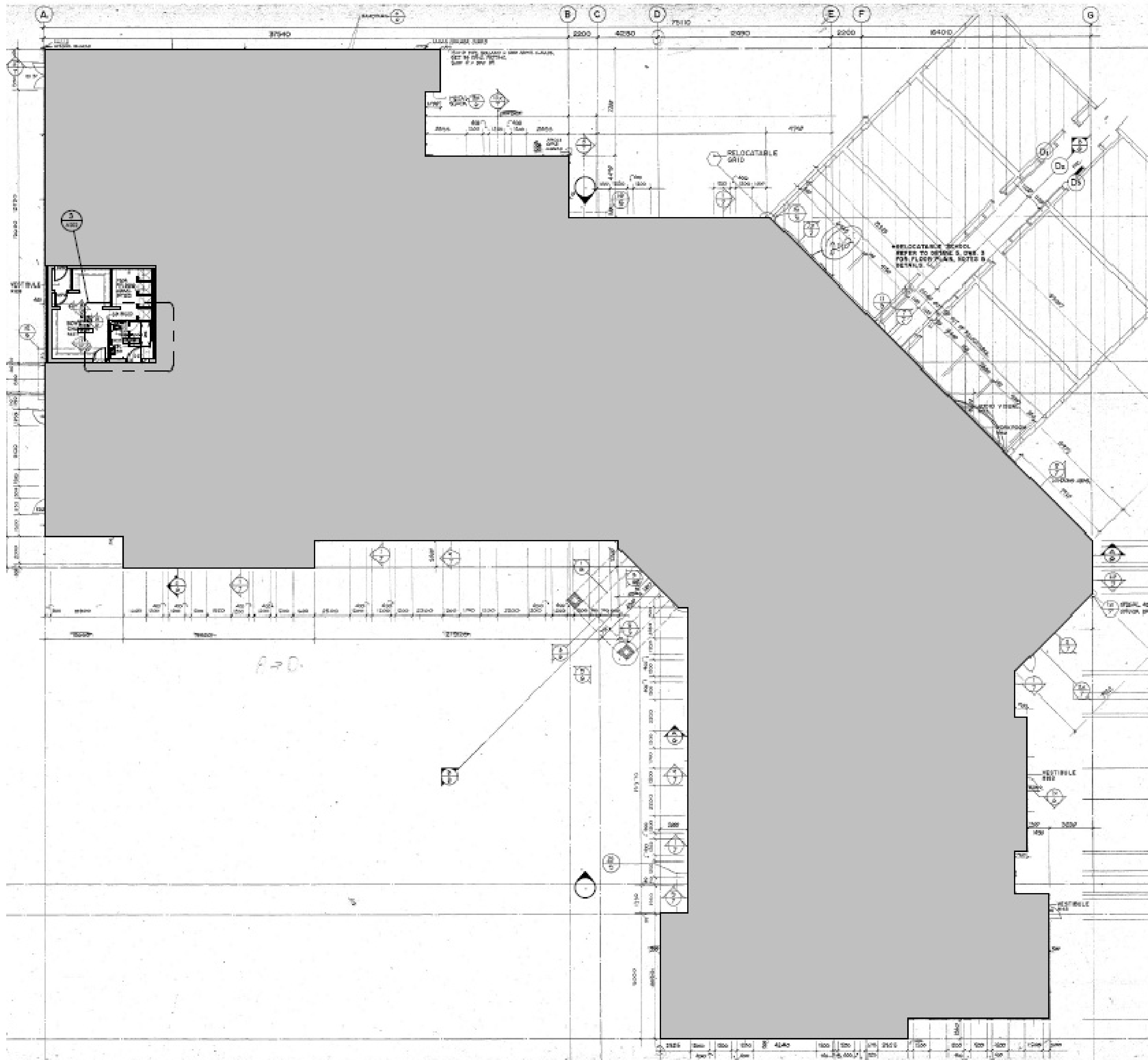
PROJECT: **ST. JAMES CATHOLIC SCHOOL**
10 CLOVER RIDGE WEST, AJAX, ONTARIO



DWG TITLE: **LEGENDS, GENERAL NOTES, EQUIPMENT SCHEDULE**



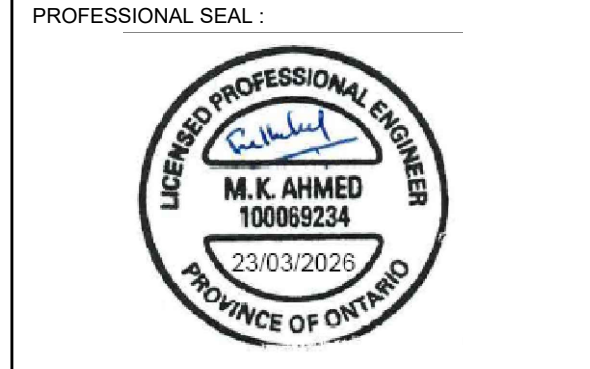
DATE:	MAR 2026
SCALE:	NTS
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DWG STATUS:	
PROJECT No.:	2025-504-3
DRAWING No.:	M1.0
REVISION:	



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PROJECT:
ST. JAMES CATHOLIC SCHOOL
 10 CLOVER RIDGE WEST, AJAX, ONTARIO



DWG TITLE:
KEY PLAN



DATE:	MAR 2026
SCALE:	NTS
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PROJECT No.:	2025-504-3
DRAWING No.:	M1.1
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PROJECT:
ST. JAMES CATHOLIC SCHOOL
 10 CLOVER RIDGE WEST, AJAX, ONTARIO

PROFESSIONAL SEAL:



DWG TITLE:
DEMOLITION PLAN



REGAL CONSULTING ENGINEERS INC.
 CONSULTING MECHANICAL & ELECTRICAL ENGINEERS
 205 Wyecroft Road, Suite 200, Oakville, ON L6K 3S3
 PHONE: (905) 844-3913
 www.regal-eng.com

DATE: **MAR 2026**

SCALE: **AS SHOWN**

DRAWN BY: **TD**

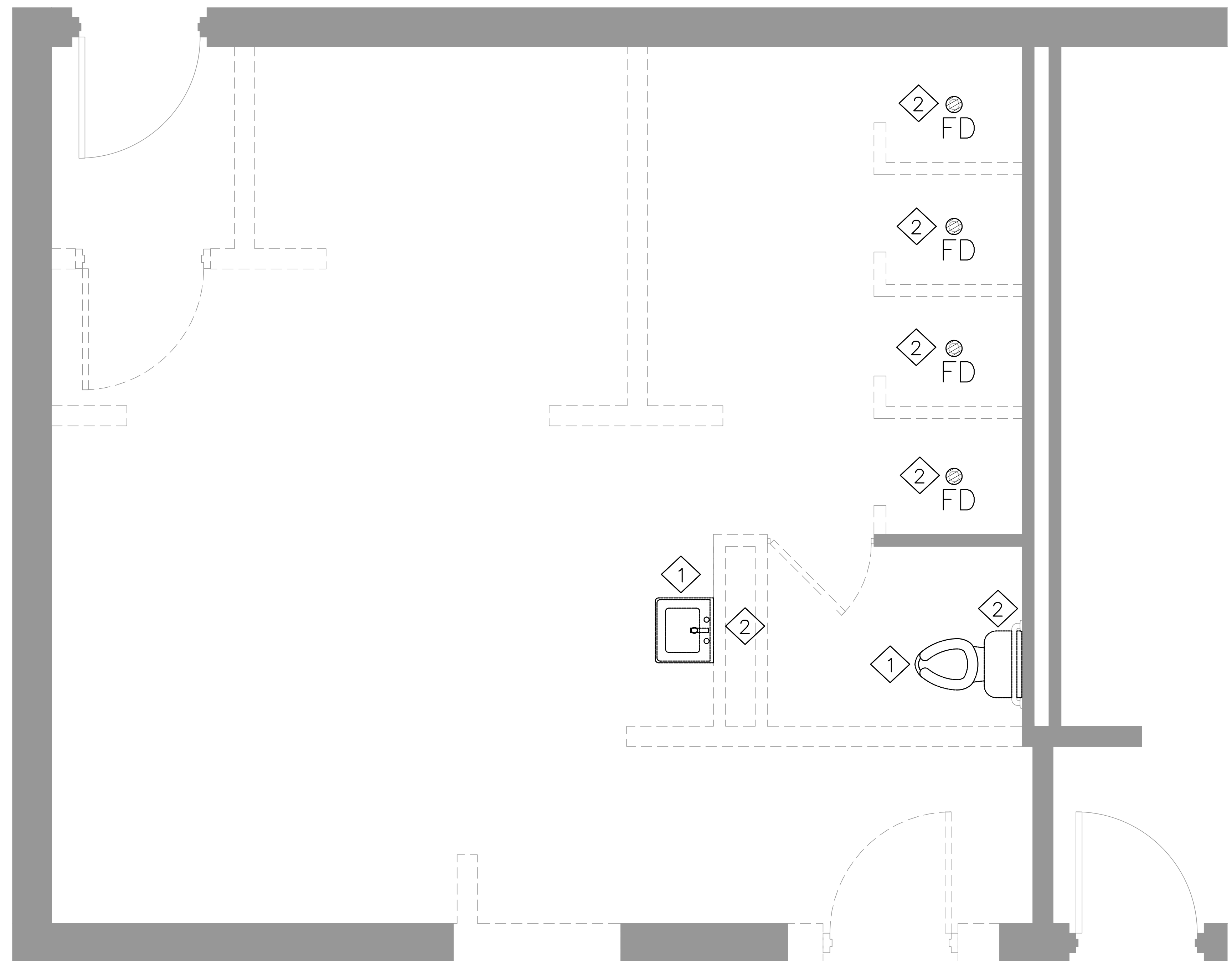
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DWG STATUS:

PROJECT No.: **2025-504-3**

DRAWING No.: **M2.0** REVISION

DRAWING NOTES	
1	DISMANTLE AND REMOVE THE EXISTING PLUMBING FIXTURES AND ASSOCIATED ACCESSORIES.
2	DISMANTLE, CAP AND SEAL THE EXISTING DRAIN LINE AND ASSOCIATED ACCESSORIES.
3	CONTRACTOR TO PERFORM A FLOOR SCAN AND LOCATE THE EXACT LOCATION OF THE EXISTING SANITARY DRAIN PIPE, BEFORE THE COMMENCEMENT OF WORK.



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PROJECT:
ST. JAMES CATHOLIC SCHOOL
 10 CLOVER RIDGE WEST, AJAX, ONTARIO

PROFESSIONAL SEAL:



DWG TITLE:

PROPOSED PLUMBING AND DRAINAGE LAYOUT



REGAL CONSULTING ENGINEERS INC.
 CONSULTING MECHANICAL & ELECTRICAL ENGINEERS
 205 Wyecroft Road, Suite 200, Oakville, ON L6K 3S3
 PHONE: (905) 844-3913
 www.regal-eng.com

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SCALE: AS SHOWN

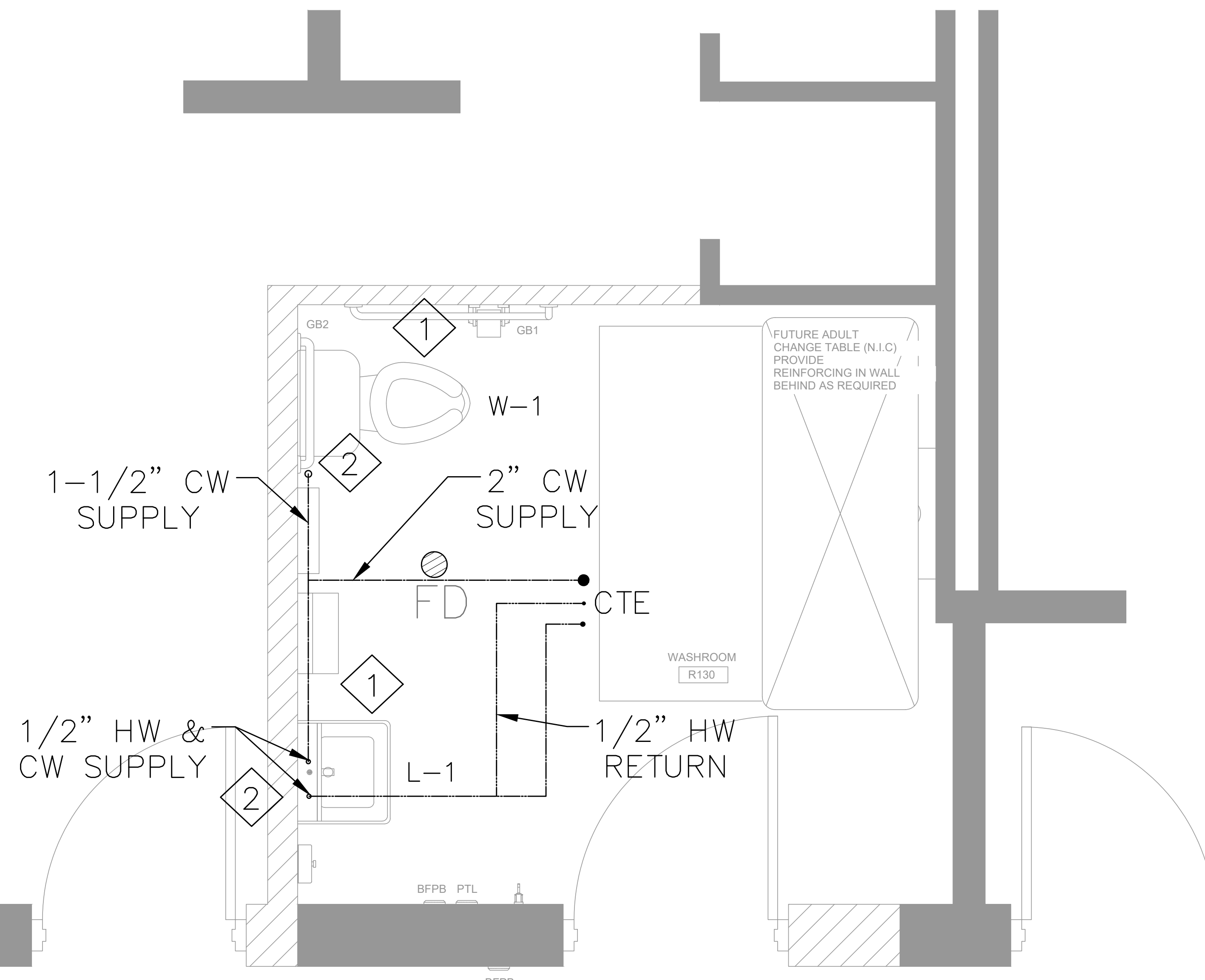
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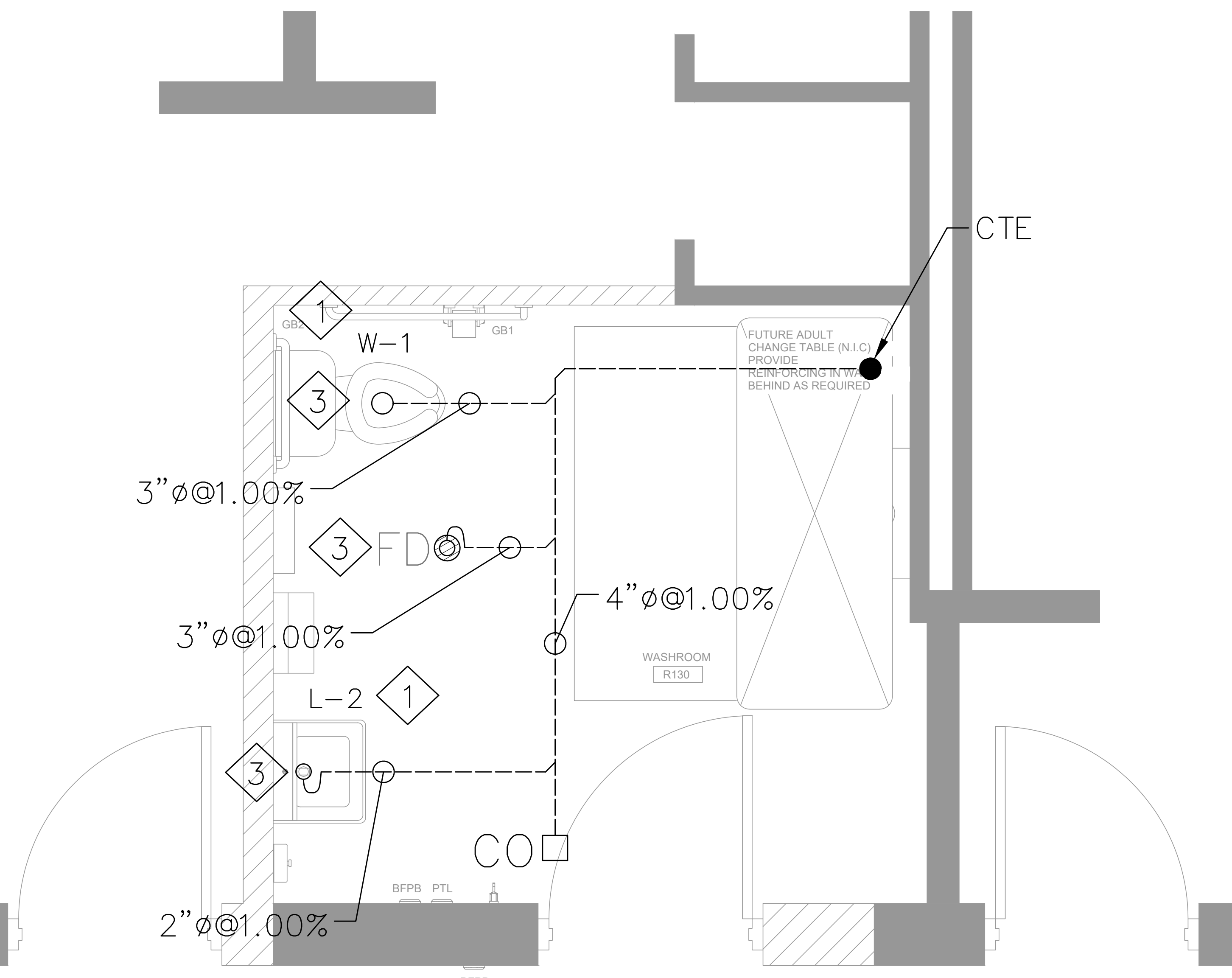
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PROJECT No.: 2025-504-3

DRAWING No.: M3.0 REVISION



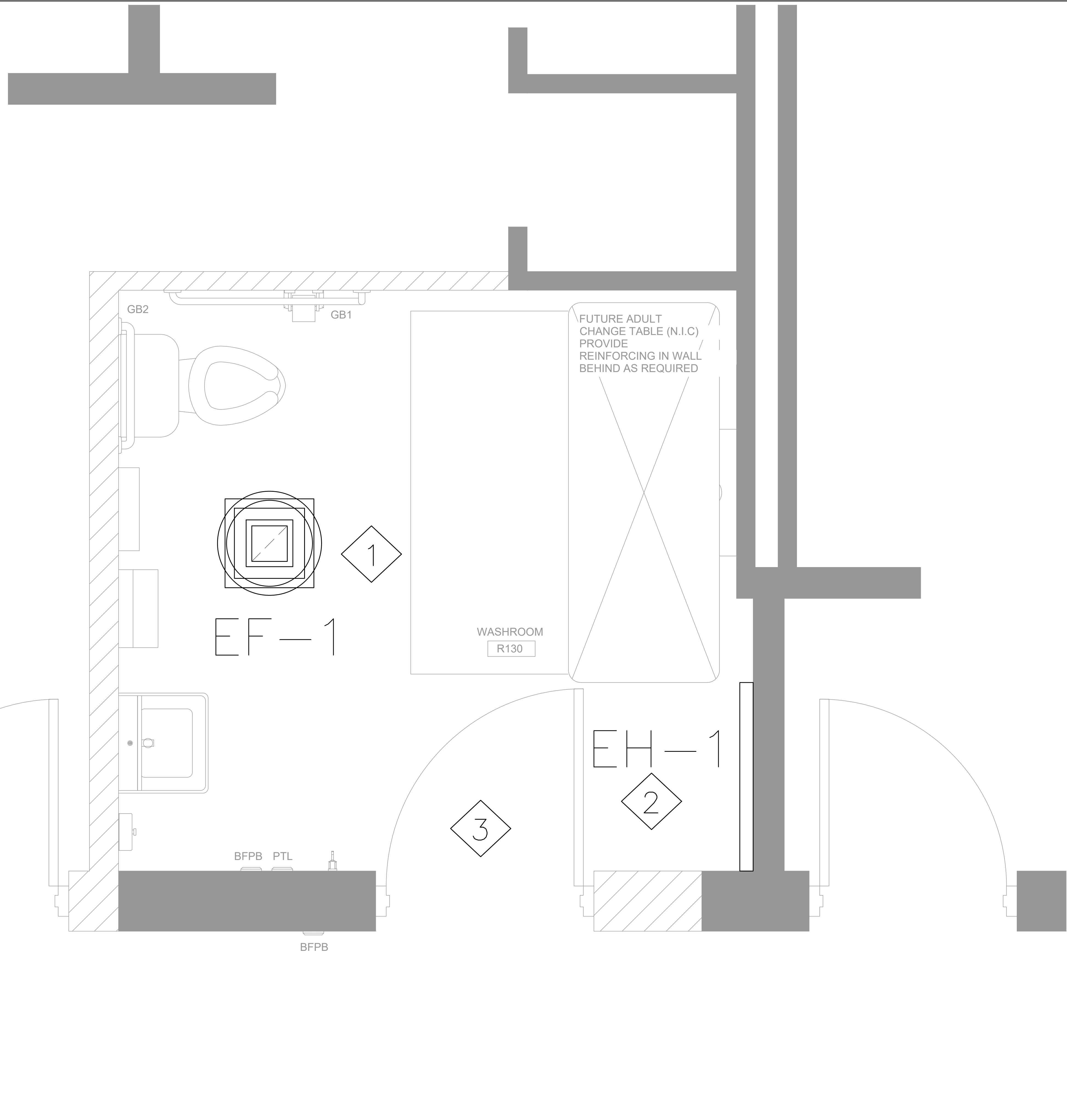
1 PROPOSED PLUMBING PLAN
 M3.0 SCALE 1:15



1 PROPOSED DRAINAGE PLAN
 M3.0 SCALE 1:15

DRAWING NOTES

1	SUPPLY AND INSTALL NEW FIXTURE UNITS AT THE LOCATION SHOWN. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION. PROVIDE HOT, COLD WATER AND HOT WATER RE-CIRCULATION CONNECTIONS, SANITARY DRAIN CONNECTIONS, P-TRAPS AND ALL ACCESSORIES AS NEEDED TO MAKE A COMPLETE INSTALLATION AS SHOWN.
2	PROVIDE AND INSTALL NEW DOMESTIC COLD WATER, HOT WATER AND HOT WATER RE-CIRCULATION PIPES FROM THE CEILING SPACE AND CONNECT TO THE NEW PLUMBING FIXTURES ALONG WITH FITTINGS, SUPPORT, VALVES, INSULATION ETC.
3	PROVIDE AND INSTALL NEW SANITARY DRAIN PIPES ALONG WITH P TRAPS, CLEAN OUT AND ALL ASSOCIATED ACCESSORIES AND CONNECT TO THE NEW PLUMBING FIXTURES AS SHOWN.
4	CONTRACTOR TO PROVIDE 3"Ø VENT PIPE RISER TO THE CEILING SPACE AND CONNECT TO THE EXISTING VENTING SYSTEM AS PER OBC AND LOCAL AHJ.
5	MECHANICAL TRADE TO SCAN THE FLOOR TO FIND THE EXACT LOCATION OF THE UNDERGROUND EXISTING SANITARY LINE. CONNECT THE NEW SANITARY LINE TO THE EXISTING.

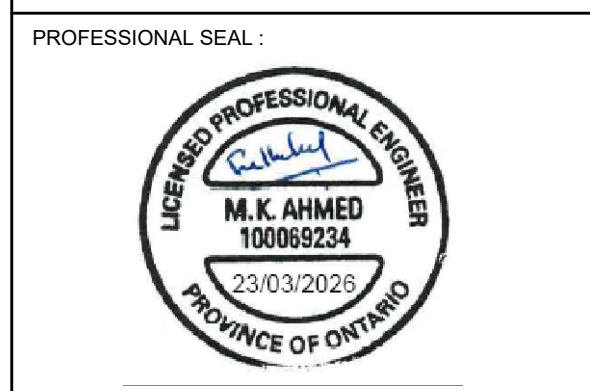


DRAWING NOTES	
1	SUPPLY AND INSTALL NEW EXHAUST FAN WITH A ROOF CURB. ROOFING WORK TO BE DONE 3FT AROUND THE EQUIPMENT BY THE APPROVED ROOFING CONTRACTOR FOR THE SCHOOL BOARD
2	SUPPLY AND INSTALL AN ELECTRIC HEATER.
3	ARCHITECT TO PROVIDE A DOOR WITH AN UNDERCUT

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PROJECT:
ST. JAMES CATHOLIC SCHOOL
 10 CLOVER RIDGE WEST, AJAX, ONTARIO



DWG TITLE:
PROPOSED HVAC LAYOUT



DATE :	MAR 2026
SCALE :	AS SHOWN
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DWG STATUS :	
PROJECT No. :	2025-504-3
DRAWING No. :	M3.1
REVISION	

1 PROPOSED HVAC PLAN
 M2.0 SCALE 1:10

GENERAL SPECIFICATION

DEFINITIONS

- WHEREVER THE TERM "INSTALL" IS USED IT MEANS INSTALL AND CONNECT COMPLETE.
- WHEREVER THE TERM "SUPPLY" IS USED IT MEANS SUPPLY ONLY.
- WHERE THE TERM "PROVIDE" IS USED IN RELATION TO EQUIPMENT, ETC., IT MEANS "SUPPLY, INSTALL, CONNECT, AND COMMISSION.
- WHEREVER THE TERM "REMOVE" IS USED IT MEANS DISCONNECT AND DISPOSE FROM THE BUILDING AND SITE.

ABBREVIATIONS

- "N" NEW ITEM TO BE SUPPLIED AND INSTALLED.
- "EX" EXISTING ITEM TO REMAIN.
- "REL" RELOCATE EXISTING ITEM TO NEW LOCATION.
- "REM" REMOVE EXISTING ITEM.

ABBREVIATIONS

- THE DRAWINGS AND SPECIFICATIONS WILL BE READ WITH ARCHITECTURAL DRAWINGS. THE OWNER'S BUILDING REQUIREMENTS, THE LEGEND, AND SPECIFICATIONS OF THE DRAWING. MAXIMUM CONDITIONS WILL GOVERN. REVIEW MECHANICAL DRAWINGS AND PROVIDE POWER TO ALL MECHANICAL DEVICES WITH MAY BE ABSENT FROM THE ELECTRICAL DRAWINGS.
- ACCURATE DIMENSIONS FOR THE WORK MUST BE OBTAINED FROM ARCHITECTURAL OR ACTUAL MEASUREMENT ON THE SITE.
- VISIT THE SITE PRIOR TO TENDER AND VERIFY ALL CONDITIONS AND DIMENSIONS, INCLUDING LOCATIONS OF EXISTING CAPPED SERVICES, AND ALL FOR ANY REROUTING OF EXISTING AND/OR NEW SERVICES AND EQUIPMENT IN TENDER PRICE. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY.
- REPORT TO THE ENGINEER ALL AMBIGUITIES, DISCREPANCIES, OMISSIONS, ERRORS, DEPARTURES FROM BUILDING BYLAWS AND/OR FROM GOOD PRACTICE PRIOR TO TENDER CLOSING.
- PROVIDE ALL WORK IN ACCORDANCE WITH THE ONTARIO BUILDING CODE, AND THE REQUIREMENTS OF ALL GOVERNING AUTHORITIES, AND LOCAL BY-LAWS.
- APPLY FOR, OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED PRIOR TO COMMENCEMENTS OF CONSTRUCTION. INCLUDE ALL PROVINCIAL AND FEDERAL SALES TAXES.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE APPROVED SCHEDULE TO MEET THE PROJECT COMPLETION DATE AND ALL SPECIFIED INTERIM SCHEDULES.
- COMPLY WITH THE GENERAL CONTRACTOR'S CONSTRUCTION SCHEDULE.
- MAKE GOOD ALL DAMAGES TO ADJACENT WORK, PROVIDE ALL CUTTING, PATCHING, FLASHING WORK AND CLEAN-UP OF FLOORS, WALLS, CEILINGS, ETC.
- PROVIDE PROPER SHOP DRAWINGS OF ALL SPECIFIED PRODUCTS AND SUBMIT FOR APPROVAL TO THE ARCHITECT AND ENGINEER.
- DURING PROGRESS OF WORK, SUBSTITUTE PRODUCTS WILL ONLY BE CONSIDERED WHEN TENDERED PRODUCTS BECOME UNOBTAINABLE AND WRITTEN PROOF IS SUBMITTED.
- THE QUALITY AND PERFORMANCE CHARACTERISTICS OF SUBSTITUTE PRODUCTS SHALL BE EQUAL TO THE SPECIFIED PRODUCTS. IMPLEMENTATION OF SUBSTITUTE PRODUCTS IS SUBJECT TO THE REVIEW OF PROPERLY SUBMITTED SHOP DRAWINGS TO THE ARCHITECT AND ENGINEER.
- ASSUME RESPONSIBILITY AND PAY FOR ANY ADDITIONAL INSTALLATION COSTS INCURRED BY ALL DIVISIONS RESULTING FROM THE ALTERNATES AND/OR SUBSTITUTIONS. MAKE REVISIONS TO RECORD DRAWINGS INCORPORATING ALL ALTERNATES AND/OR SUBSTITUTIONS AND ALL RELATED CHANGES.
- PROVIDE THE OWNER WITH A WRITTEN WARRANTY, FOR ALL LABOUR, MATERIALS, AND EQUIPMENT IN THIS CONTRACT, FOR A PERIOD OF ONE YEAR COMMENCING AT SUCH TIME AS THE OWNER, OR HIS REPRESENTATIVE, DEEMS THE WORK ACCEPTABLE.
- OBTAIN AND PAY FOR ONE (1) SET OF TRANSPARENCIES AND ONE (1) SET OF WHITE PRINTS. MARK PRINTS TO ACCURATELY INDICATE INSTALLED WORK AND TRANSFER ALL INFORMATION ONTO THE SET OF TRANSPARENCIES. UPON COMPLETION OF THE WORK SUBMIT THE COMPLETED RECORD DRAWINGS AND TRANSPARENCIES TO THE ENGINEER AND THE OWNER.
- ASSEMBLE THREE (3) MANUALS, EACH CONTAINING DATA SHEETS, BROCHURES, OPERATING, MAINTENANCE, RECOMMENDED SPARE PARTS, AND LUBRICATING INSTRUCTIONS AND A COMPLETE SET OF REVIEWED SHOP DRAWINGS AND BIND IN HARD SECTIONS AND VOLUMES. PRESENT ONE (1) COPY FOR REVIEW BY CONSULTANT. MAKE ALL CORRECTIONS REQUESTED BY THE CONSULTANT AND RESUBMIT FOR REVIEW.
- INCLUDE COST OF PREMIUM THE IN TENDER PRICE FOR WORK DURING NIGHTS, WEEKENDS OR OTHER TIME OUTSIDE NORMAL WORKING HOURS NECESSARY TO MAINTAIN ALL MECHANICAL SERVICES IN OPERATIONS, AND TO COMPLETE THE WORK SUBMISSION FOR EXTRA OR DELETED WORK.
- PROVIDE A COMPLETE COST BREAKDOWN OF ALL MATERIALS, EQUIPMENTS AND LABOUR COSTS ASSOCIATED WITH EACH SUBMISSION FOR EXTRA OR DELETED WORK.
- CONFER WITH ALL TRADES INSTALLING EQUIPMENT WHICH MAY AFFECT THE MECHANICAL WORK AND ARRANGE THE WORK IN PROPER RELATION WITH EQUIPMENT INSTALLED UNDER ALL DIVISIONS OF THE CONTRACT.
- INSTALL ALL PIPING IN THE BEST WORKMANLIKE MANNER AND IN ACCORDANCE WITH THE BEST PRACTICES OF THE TRADES.
- PROVIDE SLEEVES FOR ALL NEW PIPING THROUGH EXISTING SLAB, BEAMS, SLAB TO SLAB WALL ETC. WHERE INDICATED AND/OR REQUIRED. OBTAIN BASE BUILDING STRUCTURAL ENGINEER'S APPROVAL PRIOR TO COMMENCEMENT OF WORK.
- IDENTIFY EACH PIPED AND DUCTED SERVICE COMPLETE WITH DIRECTIONAL FLOW ARROWS. LOCATE IDENTIFICATION AND FLOW ARROWS NOT MORE THAN 12M (40') APART IN STRAIGHT RUNS OF PIES AND DUCTS. USE WORDING INDICATED ON THE MECHANICAL LEGEND. USE 50MM(2") HIGH STENCIL LETTERS.
- ALL WALL AND FLOOR OPENINGS SHALL BE PACKED AND SEALED WITH AN APPROVED FIRE RESISTANT INSULATION TO 25MM (1") FROM END SIDE OF OPENING ON BOTH SIDES OF FLOOR OR WALL. REMAINING PORTION SHALL BE SEALED WITH AN APPROVED FIRE STOP SUBSTANCE EQUAL TO "DOW CORNING #3-6548 SILICON RTV FOAM PENETRATION SEALANT.
- IN ALL AREAS REQUIRING CORE DRILLING THROUGH EXISTING FLOOR SLAB FOR MECHANICAL SERVICES, ETC. ALLOW FOR ALL NECESSARY RADIOGRAPHY TO LOCATE HIDDEN ELECTRICAL SERVICES, STRUCTURAL REINFORCING, ETC., AND INCLUDE ALL COSTS IN TENDER PRICE. CO-ORDINATE THIS WORK WITH OWNER COORDINATOR FOR TIME DURATION AND LOCATION REQUIRED AND ADHERE TO THE OWNER'S REQUIREMENTS. SUBMIT CORE DRILLING PLAN TO THE STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF WORK.
- CHECK AND VERIFY LOCATION OF EXISTING MECHANICAL AND ELECTRICAL INTERFERENCES IN CEILING SPACE OF FLOOR BELOW AND/OR BELOW FLOOR SLAB IN ALL AREAS REQUIRING COR DRILLING AND/OR CUTTING OF FLOOR SLAB ON GRADE AND ENSURE COMPATIBILITY OF AREA BELOW TO THE SATISFACTION OF THE OWNER.

- ALL SHUTDOWNS OF ANY PORTION OF THE EXISTING BASE BUILDING SYSTEMS SHALL BE PERFORMED BY THE OWNER'S BUILDING OPERATIONS STAFF AND/OR COORDINATED WITH THE OWNER FOR TIME AND DURATION OF INTERRUPTIONS AND ADHERE TO THE OWNER'S INSTRUCTIONS IN THE REGARD. COST FOR SHUTDOWNS, DRAINING AD REFILLING OF BASE BUILDING SYSTEMS SHALL BE INCLUDED IN THE TENDER PRICE.
- PROVIDE ALL ACCESS DOORS WHERE SHOWN AND/OR REQUIRED BY SITE CONDITIONS. IN CEILINGS OR WALLS. ACCESS DOORS SHALL BE EQUAL TO MILCOR OR LEHAAGE, AND MUST BE COMPATIBLE WITH CEILING/WALL TYPE AND FINISH INSTALLATION TO COMPLY WITH THE ARCHITECT'S APPROVAL. ACCESS DOORS IN RATED CEILINGS OR WALLS SHALL BE ULC APPROVED FOR THE APPLICATION.
- RE-USE EXISTING MATERIALS AND EQUIPMENT WHEREVER POSSIBLE AND PROVIDE NEW ONLY WHERE REQUIRED AND AS SPECIFIED TO ENSURE A COMPLETE INSTALLATION. ALL EQUIPMENT, MATERIALS AND ASSOCIATED CONTROLS NOT USED IN THIS CONTACT SHALL BE RETURNED TO OWNER.
- CHECK AND VERIFY ON SITE FOR ROUTING OF NEW DUCT WORK, PIPING AND LOCATION OF NEW EQUIPMENT AND INCLUDE IN TENDER PRICE FOR ANY RELOCATIONS OF EXISTING SERVICES OR ADJUSTMENTS OF NEW SERVICES OF EQUIPMENTS AS REQUIRED TO SUIT SITE CONDITIONS. PROVIDE OFFSETS IN PIPING AND CUT WORK AS REQUIRED TO AVOID INTERFERENCES.
- SEAL AIR TIGHT ALL AROUND DUCT WORK AND PIPING PENETRATIONS THROUGH PARTITIONS ABOVE CEILING WITH APPROVED SEALANT FOR FIRE RATED ASSEMBLIES.
- ALL DEFICIENCIES MUST BE COMPLETE WITH 4 WEEKS UPON NOTICE ISSUED BY THE ENGINEER. THE ENGINEER MAY HAVE THE DEFICIENCIES COMPLETED BY OTHERS AT THE CONTRACTOR'S EXPENSE, IF THE DEFICIENCIES ARE NOT CORRECTED.
- ALL ELECTRIC BASEBOARD AND FORCED FLOW HEATER SHALL BE SUPPLIED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. ALL ELECTRIC DUCT HEATERS ARE SUPPLIED AND INSTALLED BY THE MECHANICAL CONTRACTOR, BUT WIRED BY ELECTRICAL.

MECHANICAL SPECIFICATION

PLUMBING

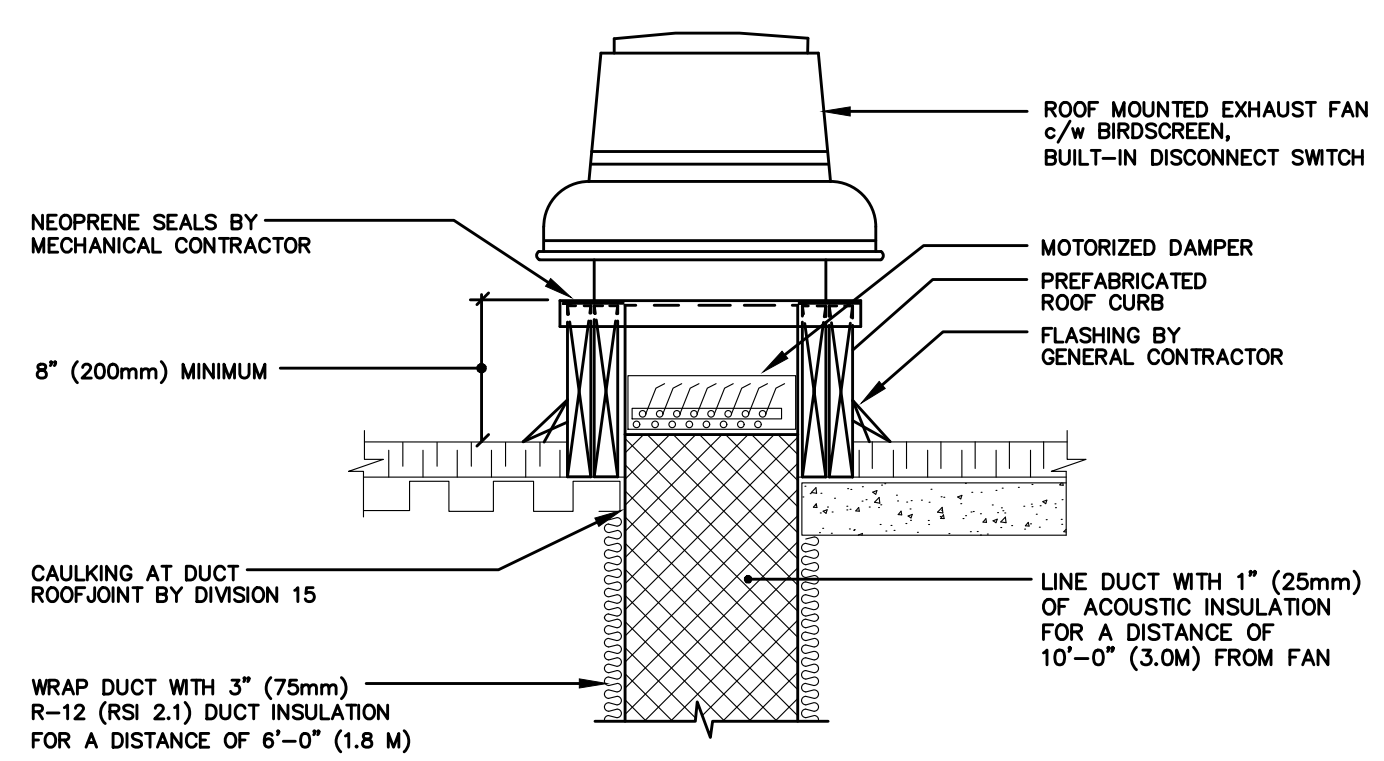
- PLUMBING SERVICES ARE TO BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH:
 - THE ONTARIO BUILDING CODE (2006)
 - THE WATER RESOURCES ACT (REG. 815)
 - ASHRAE/IES 90.1 (2004)
 - FEDERAL, PROVINCIAL OR LOCAL AUTHORITIES HAVING JURISDICTION.
- HOT AND COLD PORTABLE WATER PIPING TO BE TYPE-L COPPER (CONFORM TO ASTM-B88) WITH SOLDER-JOINT FITTINGS (CONFORM TO ANSI-B16.18 OR ANSI-B16.22).
- BURIED DRAINAGE PIPING INSIDE THE BUILDING TO BE ABS PLASTIC (CERTIFIED TO CAN/CSA-B181.1) WITH SOLVENT CEMENT JOINT (CONFORM TO CAN/CSA-181.1).
- ALL ABOVE GRADE SANITARY DRAINS AND VENT STACKS TO BE CAST IRON, NO HUB, WITH MJ JOINTS (CERTIFIED TO CSA-B70). BRANCH VENTS AND ABOVE GRADE SANITARY DRAINS MAY BE COPPER DRAINAGE TUBE (DWV) (COMPLY WITH ASTM-B306) WITH SOLDER JOINT FITTINGS (CONFORM TO ANSI-B16.29).
- STANDARD FLOW ROOF DRAINS TO BE SMITH SERIES 1010ERCCID ROOF DRAIN, ALL DUCO COATED 15" (380MM) DIA.. CAST IRON BODY, WITH UNDER DECK CLAMP, ADJUSTABLE EXTENSION AND SUMP RECEIVER, 11" (280MM) SECURED C.I. DOME. ON SMALL AREA ROOFS PROVIDE SERIES 1330ERCCID DRAIN, WITH 8 1/2" (212MM) ALUMINUM DOME. IN PATIO AND TRAFFIC AREAS PROVIDE SERIES 1470ERCNB DRAIN, WITH ADJUSTABLE SLOTTED EXTENSIONS AND 8" X 8" (200MM X 200MM) NICKEL BRONZE SQUARE PROMENADE TOP. INVERTED ROOF INSTALLATION USE SERIES 1017EPRCCID DRAINS.
- FLOW CONTROL ROOF DRAINS SMITH SERIES 1083ERCCID FLOW CONTROL ROOF DRAIN SLOPED ROOF ALL DUCO COATED CST IRON BODY, WITH ECK CLAMP, ADJUSTABLE DETENTION AND SUM RECEIVER, 11" (280MM) SECURED C.I. DOME AND 6" HIGH (150MM) FLOW RATE CONTROL WEIR. INVERTED ROOF INSTALLATION US SERIES 1017-85-ERPCID DRAINS.
- PARAPET, SCUPPER DRAINS, GUTTER, AND PIT DRAINS TO BE SMITH SERIES 1510/30SG SCUPPER DRAIN, ALL DUCO COATED CAST IRON BODY, WITH SECURED ANGLED GRATE, FLASHING CLAMP AND 45 DEGREE OR 90 DEGREE OUTLETS. FOR GUTTER INSTALLATION USE SMITH SERIES 1630, WITH 4 1/2 (114MM) HIGH DOME.
- FLOOR DRAINS IN FINISHED AREAS TO BE SMITH SERIES 2005A FLOOR DRAIN, ALL DUCO COATED CAST IRON BODY, REVERSIBLE CLAMP DEVICE AND ADJUSTABLE 5" DIAMETER (127MM) NICKEL BRONZE 1/4" (6.35MM) THICK STRAINER, SECURED WITH I.S.S. SCREWS, 4" (100MM) THROAT ON STRAINER. IN QUARRY OR MOSAIC TILED AREAS, PROVIDE SQUARE 'B' - 5"x5" (127MM X 127MM) POLISHED BRONZE (PB) SQUARE STRAINER. FLOOR DRAIN WITH FUNNEL PROVIDE 2005A-3580NB.
- FLOOR DRAINS IN MECHANICAL ROOMS AND UNFINISHED AREAS TO BE SMITH SERIES 2320 FLOOR DRAIN, ALL DUCO COATED CAST IRON BODY, SEEPAGE FLANGE, ADJUSTABLE COLLAR, CALMING DEVICE AND 8" (200MM) DIAMETER GRATE. FLOATING FLOORS PROVIDE 9340, WITH MOMENT COMPENSATOR AND VIBRATION ISOLATOR.
- FLOOR DRAINS WITH COMBINATION FUNNEL TO BE SMITH SERIES 2320-3591FUNNEL FLOOR DRAIN, ALL DUCO COATED CAST IRON BODY, SEEPAGE FLANGE, ADJUSTABLE COLLAR, CLAMPING DEVICE AND 8-1.2, (216MM) WITH 4" X 9" (101.6MM X 228.6MM) OVAL FUNNEL. FLOATING FLOOR PROVIDE 9340*-3591, WITH MOVEMENT COMPENSATOR AND VIBRATION ISOLATOR.
- EXTERIOR NON-FREEZE WALL HYDRANT TO BE SMITH SERIES 5609QTNB HYDRANT, 1/4 TURN NON-DRIOP, CERAMIC CARTRIDGE, 3/4" (19MM) NON-FREEZE WALL TYPE WITH BRONZE FACE, ADJUSTABLE WALL-OFLANGE OPERATION KEY AND SERF-DRAINING INTEGRAL VACUUM BREAKER. LENGTH TO SUIT WALL THICKNESS.
- INTERIOR HOSE BIBB TO BE CAMBRIDGE BRASS #32W201 HOSE BIBB, 1/2" (12.7MM) SIZE, WALL TYPE ROUGH BRONZE WITH HOSE END VACUUM BREAKER.
- LINE CLEANOUTS TO BE SMITH SERIES #4420 LINE CLEANOUTS, IN CAST IRON PIPE WITH BOLTED NEOPRENE CASKETED COVER SECURED TO BODY WITH BRASS BOLTS, WITH FULL SIZE PIPE OPENING.
- STACK CLEANOUT TO BE SMITH SERIES #4510 STACK CLEANOUT, IN BASE OF CAST IRON STACK WITH NEOPRENE CASKETED SECURED COVER. WHERE CLEANOUTS ARE CONCEALED BEHIND FINISHED WALLS ACCESS SHALL BE MADE BY SMITH 4530 ROUND STAINLESS STEEL PLATE AND SLOTTED FLAT HEAD STAINLESS STEEL SCREWS.
- URINAL CLEANOUT TO BE SMITH SERIES SQ4-1819 URINAL WALL ACCESS CLEANOUT , WITH S.S BOLT AND WING NUT, COMPLETE WITH ROUND POLISHED S.S. ACCESS COVER AND SECURED WITH V.P. SCREW.

- FLOOR CLEANOUTS IN UNFINISHED AREAS AND OUTSIDE AREAS, SMITH SERIES 4220 FLOOR CLEANOUT, DUCO COATED CAST IRON BODY WITH INTEGRAL CLAMP DEVICE, AND REMOVABLE POSITIVE SEAL CLOSURE PLUG AND HEAVY DUTY 6" (150MM) ADJUSTABLE COVER SECURED WITH STAINLESS STEEL SCREWS.
- FLOOR CLEANOUTS IN TILED AREAS, SMITH SERIES 4140 FLOOR CLEANOUT, SAME AS ABOVE WITH SQUARE NICKEL BRONZE COVER AND FRAME RECESSED FOR TILE. COVER CAN BE ADJUSTED TO SUIT FLOOR LINES WHEN INSTALLING FINISHED FLOOR.
- FLOOR CLEANOUTS IN TERRAZZO AREAS, SMITH SERIES 4180 FLOOR CLEANOUT, SAM AS ABOVE WITH SQUARE NICKEL BRONZE COVER AND FRAME RECESS FOR TERRAZZO. COVER CAN BE ADJUSTED TO SUIT FLOOR LINES WHEN INSTALLING FINISHED FLOOR.
- FLOOR CLEANOUTS IN CARPETED AREAS, SMITH SERIES 4020Y FLOOR CLEANOUT, SAME AS ABOVE WITH NICKEL BRONZE COVER AND FRAME.
- FLOOR CLEANOUTS IN OTHER FINISHED AREAS, SMITH SERIES 4020 FLOOR CLEANOUT, SAME AS ABOVE WITH NICKEL BRONZE FRAME AND COVER.
- FLOOR CLEANOUTS FOR HEAVY TRAFFIC AREAS, SMITH SERIES 4100 FLOOR CLEANOUT, SAME AS ABOVE WITH EXTRA HEAVY NICKEL BRONZE COVER AND FRAME.
- TRAP SEAL PRIMER SERVING 1 OR 2 DRAINS TO BE P.P.P. INC. MODEL PO-500 AUTOMATIC TRAP SEAL PRIMER VALVE, SEARING INDIVIDUAL OR REMOTE AREA DRAINS WITH 1/2" NPT (MTOF) CONNECTIONS WITH STRAINER AND INTEGRAL BACK FLOW PREVENTER & VACUUM BREAKER.
- PROVIDE ISOLATION VALVES ON ALL MAIN LINES, BRANCH LINES AND AT PIECES OF EQUIPMENT. ALL VALES SHALL BE JENKINS, CRANE OR EQUAL WITH A MINIMUM RATING OF 125% OF THE SYSTEM DESIGN PRESSURE.
- ALL ABOVE GRADE PIPING IS TO BE INSULATED WITH FIBREGLASS INSULATION TO PREVENT CONDENSATION OR TO RETAIN HEAT FOR ENERGY EFFICIENCY. INSULATION SYSTEM TO BE SCHULLER MICRO-LOK OR EQUAL, WITH SIZES AS SHOWN BELOW.

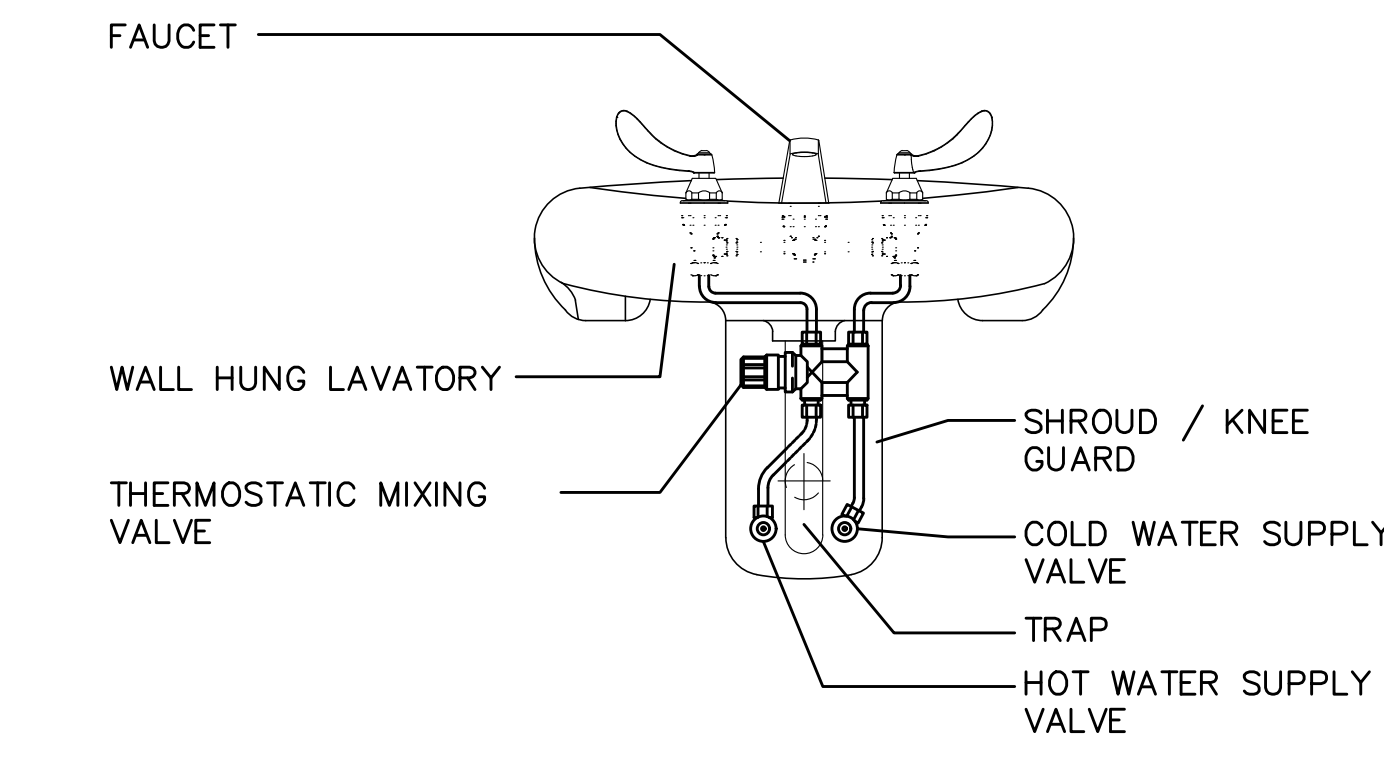
SERVICE & PIPE SIZE	INSULATION REQUIRED
RAIN WATER LEADERS (ANY SIZE)	1"
SANITARY DRAINS (ANY SIZE)	1"
DOMESTIC COLD WATER (ANY SIZE)	1"
DOMESTIC HOT WATER (2" & SMALLER)	1"
DOMESTIC HOT WATER (2 1/2" & LARGER)	1 1/2"
DOMESTIC HOT WATER RECIRC.(ANY SIZE)	1"
DOMESTIC WATER (HOT OR COLD) BRANCHES	1/2"

- IDENTIFY ALL PIPE OR PIPE COVERING WITH SMILLIE MCADAMS SUMMERLIN LTD.COIL-MARK OR ADHESIVE STYLE BUILDING SERVICE PIE MARKER. ALL IDENTIFICATION SHALL INCORPORATE DIRECTION OF FLOW ARROW AND THE MANUFACTURES STANDARD SYSTEM DESIGNATION. IDENTIFICATION MUST BE APPLIED AT INTERVALS NOT GREATER THAN 40 FT. (12M). ADJACENT TO VALVES, BEHIND ACCESS DOORS, AT CHANGES IN DIRECTION AND WHERE PIPES PASS THROUGH WALLS OR FLOORS, INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- IDENTIFY AL VALVES BY MEANS OF A 1-1/4" (32MM) DIAMETER BRASS TAG WITH 3/8" (9.5 MM) STAMPED BLACK PAINT FILLED CHARACTERS, OR A 1-1/4" (32MM) SQUARE ENGRAVED TWO-PLY PLASTIC TAG WITH 3/8" (9.5MM) BLACK CHARACTERS ON WHITE BACKGROUND, TAGS TO BE CONSECUTIVELY NUMBERED AND SECURED TO VALVES BY A BRASS BEAD CHAIN. PROVIDE AND MOUNT FOR OWNER A TYPED VALVE DIRECTORY IN A BLACK DOCUMENT FRAME, LISTING VALVE NUMBER, LOCATION, AND SERVICE. INDIVIDUAL FIXTURE VALVES NEED NOT BE IDENTIFIED.
- IDENTIFY ALL EQUIPMENT SUCH AS, BUT NOT LIMITED TO FANS, PUMPS, MOTORS AHU'S AND THEIR RELATED STARTERS BY MEANS OF ON ENGRAVED TWO-PLY PLASTIC I.D. PLATE. EQUIPMENT I.D. PLATES SHALL HAVE 3/8" (9.5 MM) WHITE CHARACTERS ON BLACK BACKGROUND: STARTER I.D. PLATES SHALL BE AS ABOVE WITH 1/8"(3.1MM)CHARACTERS. ALL PLATES SHALL BE SIZED TO ACCOMMODATE REQUIRED DESCRIPTION BEARING TYPE OF EQUIPMENT, NUMBER AND SERVICE. LOCATE CONSPICUOUSLY AND SECURE WITH SELF ADHESIVE TAPE. RECOGNIZED ABBREVIATIONS WILL BE ACCEPTABLE. OTHER PROPOSED ABBREVIATIONS TO BE APPROVED BY THE CONSULTANT.
- PROVIDE ACCESS PANELS TO ALL CONCEALED VALVES OR EQUIPEMNT. SIZE OF PANELS TO ALLOW FOR MAINTENANCE OR REMOVAL OF ITEM.
- UNIVERSAL ACCESS DOORS FOR WALLS AND CEILINGS TO BE ACUDOR SERIES UF-5000 ACCESS DOORS, 14 GA. (17MM) STEEL, RUST RESISTANT, CONTINUOUS CONCEALED HINGE, WITH POSITIVE AND SELF-OPENING SCREWDRIVER OPERATED LOCK. DOORS IN TILE WALLS SHALL BE STAINLESS STEEL AND SHALL SUIT TILE PATTERN. ALL OTHER PANELS SHALL BE PRIME PAINTED STEEL. MINIMUM SIZE OF PANELS SHALL BE 12" X 18" (300MM X450MM). WHEREVER POSSIBLE 24" X 24" (600MM X 600MM) PANELS SHALL BE USED.
- RECESSED ACCESS DOOR FOR TILE APPLICATIONS TO BE ACUDOR SERIES AT-5020 RECESSED ACCESS DOOR FOR CEILING TILE, 16 GA. (1.5MM) STEEL WITH CONCEALED PIVOTING ROD TYPE HINGE AND ALLEN KEY OPERATED LOCK. DOOR TO BE RECESSED 5/8" (14MM) TO RECEIVE CEILING TILE. FOR CERAMIC WALL TILE PROVIDE #AT-5020SS STAINLESS STEEL RECESSED ACCESS DOOR WITH ALLEN KEY LOCK.
- RECESSED ACCESS DOOR FOR DRYWALL APPLICATIONS TO BE ACUDOR SERIES DW-5015 RECESSED ACCESS DOOR, 16 GA. (1.5MM) STEEL WITH CONCEALED PIVOTING ROD TYPE HIGH AND SELF-OPENING SCREWDRIVER OPERATED LOCK. DOOR TO BE RECESSED 5/8"(14MM) TO RECEIVE DRYWALL. FLANGE OF DOOR TO BE GALVANIZED STEEL TAPING BEADING TO PROVIDE FINISH OF DRYWALL JOINTS.
- FIRE RATED ACCESS DOORS TOBE INSULATED ACUDOR SERIES FW-5050 FIRE RATED ACCESS DOORS, FOR WALLS AND CEILING UL/ULC 1-1/2 HOUR 'B' LABEL WITH MAXIMUM TEMPERATURE RISE OF 250 DEGRES AFTER 30 MINUTES. DOOR WITH 2" (50MM) INSULATION, STEEL. 20 GA (1MM) WITH 16 GA. (1.6MM) FRAME, CONCEALED HINGE, SELF LATCHING RING PULL AND GREY BAKED ENAMEL FINISH.
- PROVIDE PLUMBING FIXTURES AND EQUIPMENT AS SPECIFIED ON THE DRAWINGS. ALL ITEMS TO BE NEW AND OF THE HIGHEST QUALITY. ALL ITEMS INSTALLED BY THIS CONTRACTOR MUST BE INSTALLED COMPLETE AND INCLUDE ALL PIPING, VALVES AND MISCELLANEOUS FITTINGS, CONTROLS, SUPPORT BASE OR STRUCTURE, TO ENSURE A TOTALLY FUNCTIONAL UNIT OR SYSTEM. COORDINATE INSTALLATION WITH OTHER TRADES AS REQUIRED.
- ALL PLUMBING INSTALLATIONS ARE TO BE IN THE BEST WORKMANLIKE MANOR AND IN ACCORDANCE WITH THE BEST PRACTICES OF THE TRADE.
- SUPPORT ALL PIPING AS FOLLOWS:

PIPE SIZE	DISTANCE BETWEEN SUPPORTS
1" & SMALLER (METALLIC)	6'-0" MAXIMUM
1 1/4" & SMALLER (METALLIC)	8'-0" MAXIMUM
1/2" & SMALLER (PLASTIC)	3'-0" MAXIMUM
1 1/4" & SMALLER (PLASTIC)	4'-0" MAXIMUM
- PROVIDE SLEEVES FOR ALL PIPING PENETRATING WALLS AND FLOORS. ENSURE ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES ARE PROPERLY SEALED WITH AN APPROVED COMPOUND.
- ALL TRENCHING, BEDDING, AND BACKFILL OF BURIED PIPING IS THE RESPONSIBILITY OF THE CONTRACTOR.



DETAIL OF ROOF MOUNTED EXHAUST FAN

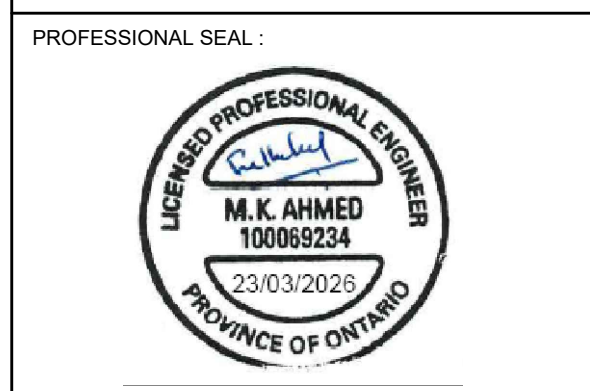


DETAILS OF UNDER LAVATORY THERMOSTATIC MIXING VALVE

The Contractor shall verify all dimensions prior to commencement of the work. All print and specifications are the property of the Architect and must be returned upon completion of the work.

ISSUE OR REVISION		
No.	Description	Date
1	Issue for Tender	24 th Mar-2026
2		
3		
4		
5		
6		
7		
8		

PROJECT:
ST. JAMES CATHOLIC SCHOOL
10 CLOVER RIDGE WEST, AJAX, ONTARIO



DWG TITLE: **MECHANICAL SPECIFICATIONS AND DETAILS**



DATE:	MAR 2026
SCALE:	N.T.S
DRAWN BY:	TD
CHECKED BY:	MA
DWG STATUS:	
PROJECT No.:	2025-504-3
DRAWING No.:	M4.0
REVISION	