



**DURHAM CATHOLIC  
DISTRICT SCHOOL BOARD**  
*Learning and Living in Faith*

**DYNAMIS**  
ENGINEERING INC

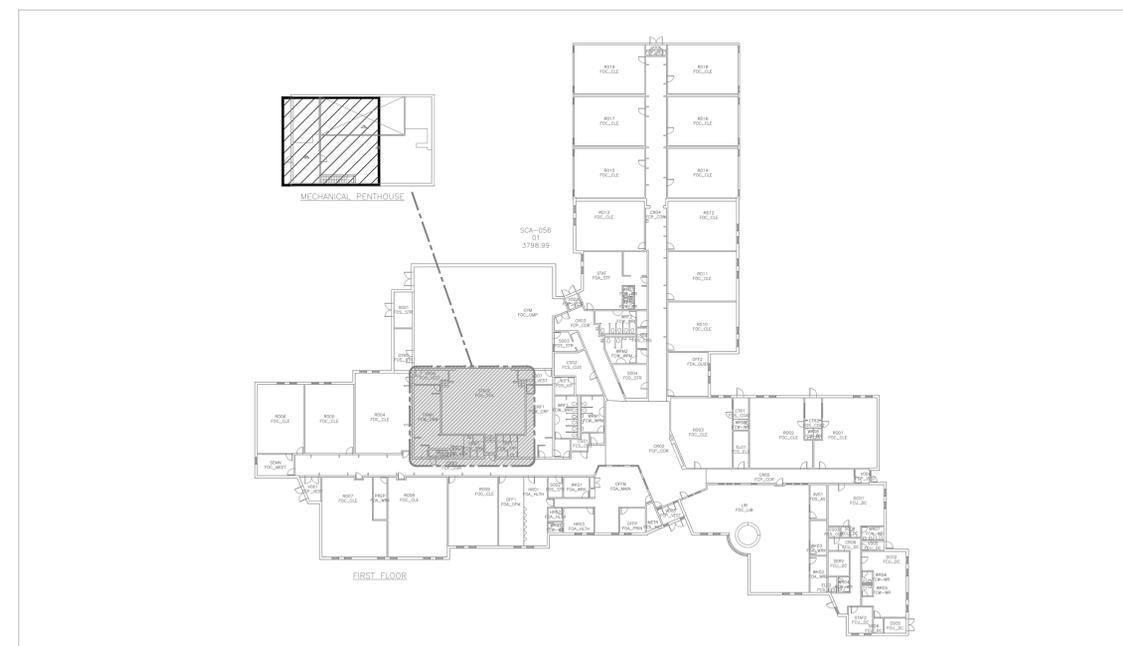
ST. CATHERINE OF SIENA CATHOLIC SCHOOL  
GLYCOL BOILER TO HEAT EXCHANGER REPLACEMENT

15 BENNETT AVENUE  
AJAX, ON L1T 3P1

DCDSB TENDER NUMBER	T26-05
DYNAMIS PROJECT NUMBER	26-485
ISSUANCE	TENDER
DATE	FEBRUARY 27, 2026
MECHANICAL	DYNAMIS ENGINEERING INC.
ELECTRICAL	DYNAMIS ENGINEERING INC.



DRAWING LIST				90% REVIEW	TENDER	CONSTRUCTION	AS-BUILT
DISCIPLINE	DWG NO.	DRAWING TITLE					
MECHANICAL	CP	TITLE PAGE			●		
	M1.1	SCHEDULES AND DRAWING LEGEND			●		
	M1.2	DETAILS			●		
	M1.3	CONTROL SCHEMATIC			●		
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	M2.3	DISTRIBUTION DIAGRAM - NEW CONSTRUCTION			●		
ELECTRICAL	E1.1	SCHEDULES AND DRAWING LEGEND			●		
	E2.1	BOILER ROOM - ELECTRICAL - DEMOLITION			●		
	E2.2	BOILER ROOM - ELECTRICAL - NEW CONSTRUCTION			●		



PUMP SCHEDULE														
TAG	QTY	LOCATION	SYSTEM	MANUFACTURER	MODEL	TYPE	WEIGHT (kg)	FLOW (L/s)	HEAD (m)	FLANGE (mm)	MOTOR			REMARKS
											HP	RPM	V-PH-Hz	
P-3	1	BOILER ROOM	GLYCOL HEATING (50% PROPYLENE)	ARMSTRONG	4380-1.5x1.5 x8-4p-2hp	VERTICAL INLINE	100	2.84	16	INLET 38 OUTLET 38	2	1,800	208-3-60	- C/W INVERTER DUTY MOTOR, FLANGED SUCTION DIFFUSER (64mmIN/38mmOUT) - SUPPLY LOOSE VFD WITH BYPASS (SEE SPECIFICATION FOR MORE INFO)
P-4	1	BOILER ROOM	GLYCOL HEATING (50% PROPYLENE)	ARMSTRONG	4380-1.5x1.5 x8-4p-2hp	VERTICAL INLINE	100	2.84	16	INLET 38 OUTLET 38	2	1,800	208-3-60	- C/W INVERTER DUTY MOTOR, FLANGED SUCTION DIFFUSER (64mmIN/38mmOUT) - SUPPLY LOOSE VFD WITH BYPASS (SEE SPECIFICATION FOR MORE INFO)
P-7	1	BOILER ROOM	HYDRONIC LOOP (HEAT EXCHANGER)	ARMSTRONG	4380-1.5x1.5 x6-4p-0.75hp	VERTICAL INLINE	100	2.84	6.5	INLET 38 OUTLET 38	0.75	1,800	208-3-60	- C/W INVERTER DUTY MOTOR, FLANGED SUCTION DIFFUSER (64mmIN/38mmOUT) - SUPPLY LOOSE VFD WITH BYPASS (SEE SPECIFICATION FOR MORE INFO)
P-8	1	BOILER ROOM	HYDRONIC LOOP (HEAT EXCHANGER)	ARMSTRONG	4380-1.5x1.5 x6-4p-0.75hp	VERTICAL INLINE	100	2.84	6.5	INLET 38 OUTLET 38	0.75	1,800	208-3-60	- C/W INVERTER DUTY MOTOR, FLANGED SUCTION DIFFUSER (64mmIN/38mmOUT) - SUPPLY LOOSE VFD WITH BYPASS (SEE SPECIFICATION FOR MORE INFO)

SCHEDULE INDICATES BASIS ON DESIGN MANUFACTURER AND MODEL, ACCEPTABLE ALTERNATE MANUFACTURERS ARMSTRONG, BELL & GOSSETT, TACO;

PLATE HEAT EXCHANGER																
TAG	QTY	LOCATION	SYSTEM	MANUFACTURER	MODEL	HOT SIDE					COLD SIDE					REMARKS
						FLUID	FLOW	TEMP. IN	TEMP. OUT	PRES. DROP	FLUID	FLOW	TEMP. IN	TEMP. OUT	PRES. DROP	
HX-1	1	BOILER ROOM	HYDRONIC HEATING	ALFA LAVAL	AQ2L-FG	WATER	4.29 L/s (68 USGPM)	82.2C (180F)	71.1C (160F)	3.5m (5PSI)	50% PROPYLENE GLYCOL	4.64 L/s (73.6 USGPM)	68.3C (155F)	79.4C (175F)	3.5m (5psi)	- FLANGE CONNECTION - SIZE: 1,300mm x 320mm x 460mm, WEIGHT 300 kg - PLATE MATERIAL SS304, GASKET MATERIAL NITRILE HT

EXPANSION TANK SCHEDULE												
TAG	QTY	LOCATION	SYSTEM	MANUFACTURER	MODEL	TYPE	TANK VOLUME (l)	MAXIMUM ACCEPTANCE VOLUME (l)	DIMENSION DIA X H (mm)	SYSTEM CONN. (ø mm)	DRAIN PLUG (ø mm)	REMARKS
EXP-2	1	BOILER ROOM	GLYCOL HEATING	AMTROL	AX-180V	VERTICAL DIAPHRAGM	340	128	ø610x1524	25	--	- ASME CONSTRUCTION, 862kPa WORKING PRESSURE C/W CHARGE VALVE; PRE-CHARGED TO SYSTEM PRESSURE (12 PSIG) - FLUID: 50% PROPYLENE GLYCOL

LEGEND	
SYMBOL	DESCRIPTION
	EXISTING TO BE REMOVED
	EXISTING TO REMAIN
	NEW WORK
	HYDRONIC HEATING WATER SUPPLY
	HYDRONIC HEATING WATER RETURN
	GLYCOL SUPPLY
	GLYCOL RETURN
	NATURAL GAS LINE
	ISOLATION VALVE (BUTTERFLY)
	ISOLATION GATE VALVE
	PUMP
	SUCTION GUIDE
	CIRCUIT BALANCING VALVE (CBV)
	FLOW VERIFICATION / MEASURING FITTING
	CHECK VALVE
	PRESSURE REDUCING VALVE
	STRAINER
	PRESSURE RELIEF VALVE
	LOW WATER CUT OFF
	FLOW SWITCH
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
	TEMPERATURE GAUGE
	PRESSURE GAUGE
	NATURAL GAS REGULATOR
	BACK FLOW PREVENTER (DOUBLE CHECK VALVE ASSEMBLY)
	BACK FLOW PREVENTER (REDUCED PRESSURE ZONE ASSEMBLY)
	WATER METER
	DDC TEMPERATURE SENSOR
	DDC PRESSURE SENSOR
	ABOVE FINISHED FLOOR
	BACK DRAFT DAMPER
	CONNECT TO EXISTING
	FINISHED FLOOR LEVEL
	FLOOR DRAIN
	FLOOR FUNNEL DRAIN
	HUB DRAIN
	VARIABLE FREQUENCY DRIVE
	TYPICAL
	BUILDING AUTOMATION SYSTEM
	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	NORMALLY OPENED / NORMALLY CLOSED
	HIGH LIMIT TEMPERATURE SENSOR
	LOW LIMIT TEMPERATURE SENSOR
	SMOKE SENSOR
	CARBON MONOXIDE SENSOR
	PRESSURE DIFFERENTIAL SENSOR
	FLOOR DRAIN
	FUNNEL FLOOR DRAIN

2	ISSUED FOR TENDER	DE	2026-02-27
1	ISSUED FOR 90% REVIEW	DE	2026-02-13
REV.	DESCRIPTION:	BY:	DATE:

**DYNAMIS ENGINEERING INC**  
222 ISLINGTON AVENUE, SUITE 260  
TORONTO, ON M8V 3W7  
www.dynamiseng.com



PROJECT INFORMATION:  
TITLE: ST. CATHERINE OF SIENA C.S. GLYCOL BOILER TO HEAT EXCHANGER REPLACEMENT  
ADDRESS: 15 BENNETT AVE. AJEX, ONTARIO  
CLIENT ID: T26-05  
DYNAMIS ID: 26-485

DRAWING TITLE: SCHEDULES AND DRAWING LEGEND			
DRAWING SCALE: NTS	YYYY-MM-DD: 2026-01-12	DRAWN BY: TK	CHECKED BY: MT
DRAWING NUMBER: M1.1		REVISION: R00	

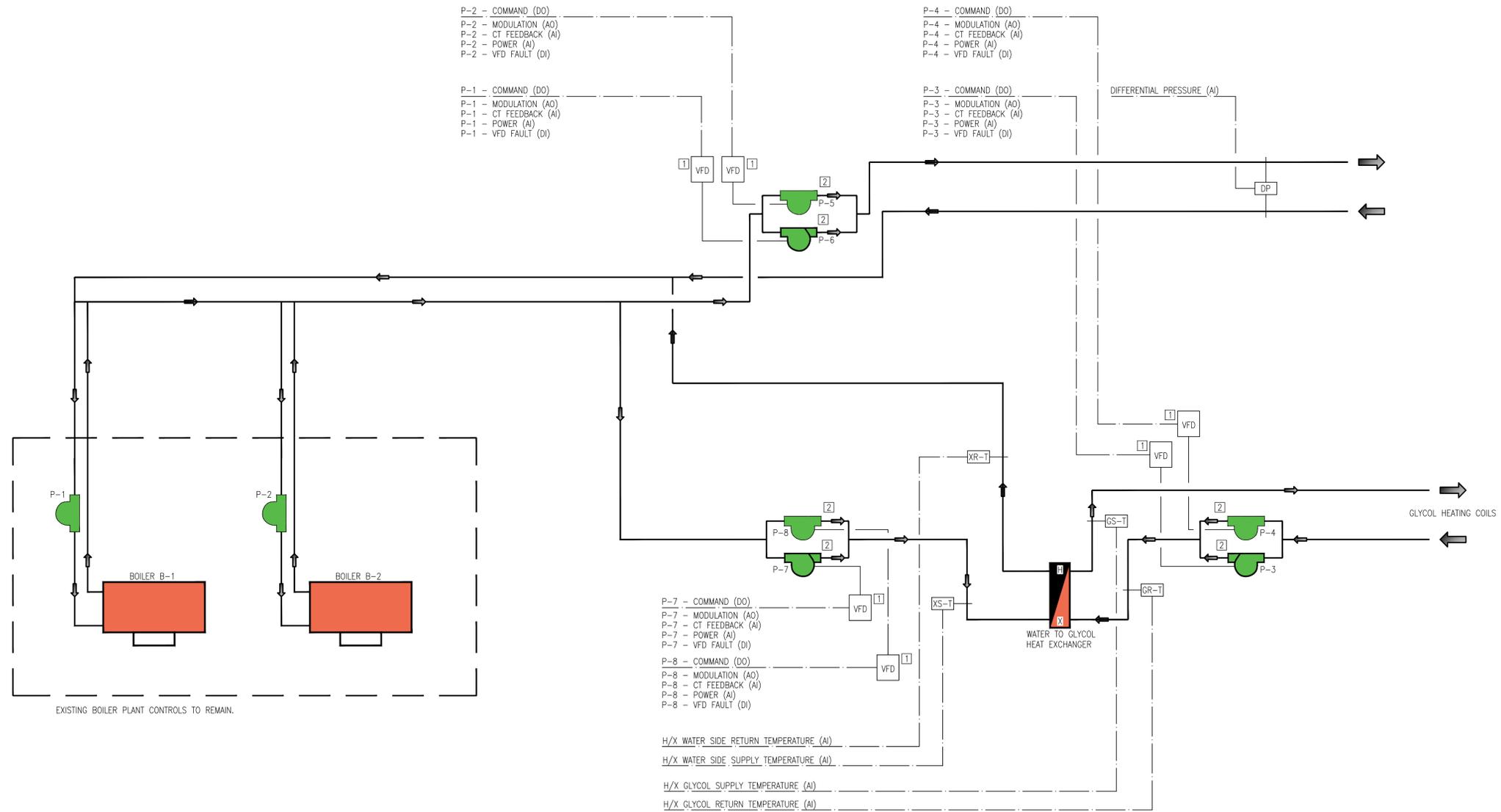


CONTROLS DETAIL 1 - GLYCOL LOOP

NOT TO SCALE

- 1 SUPPLY AND INSTALL NEW VARIABLE FREQUENCY DRIVE, INTEGRATE INTO THE NEW CONTROL NETWORK, BACnet TO BE INTEGRATED WITH THE BAS. BAS TO MONITOR KILOWATTS (KW) VIA BACnet.
- 2 SUPPLY AND INSTALL NEW CURRENT TRANSDUCER FOR FEEDBACK TO THE BAS.

NOTE:  
ALL CONTROL WIRING SHALL BE IN CONDUITS.  
BAS VENDOR: AUTOMATIC LOGIC. SEE SPECIFICATION FOR CONTACT.



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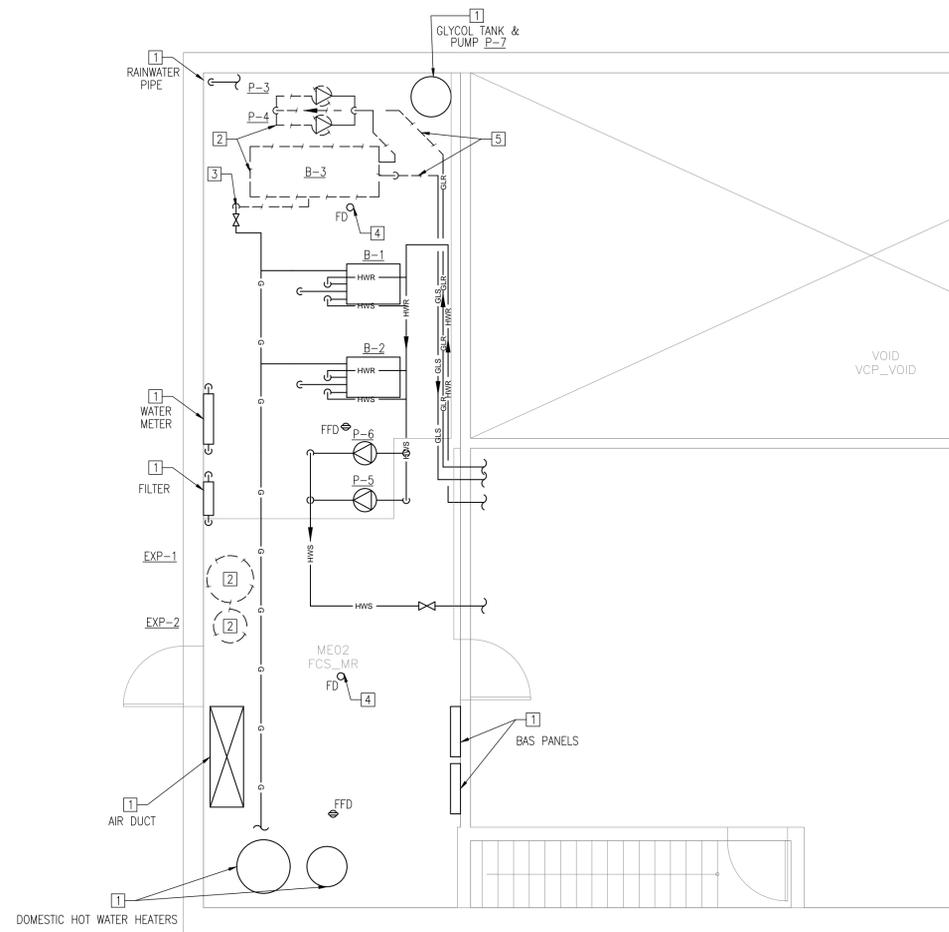
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DRAWING TITLE: CONTROL SCHEMATIC

DRAWING SCALE: NTS	YYYY-MM-DD: 2026-01-12	DRAWN BY: TK	CHECKED BY: MT
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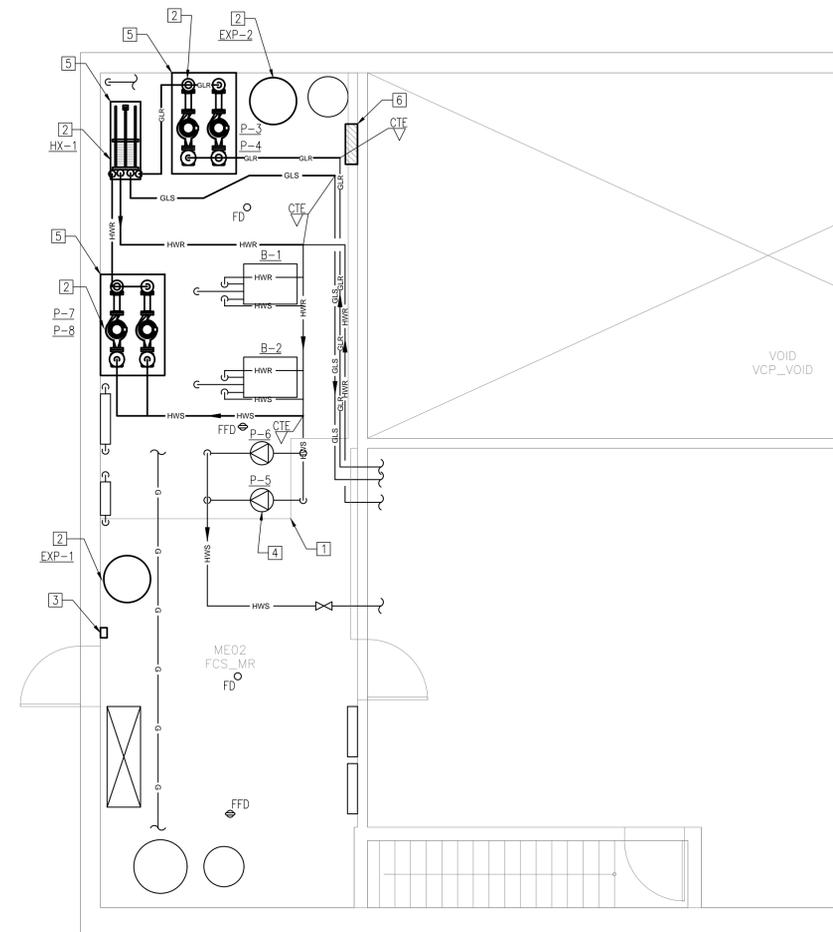
**1**  
M2.1 **DEMOLITION**

**REFERENCE NOTES**

- [1] EXISTING EQUIPMENT TO REMAIN, INCLUDING BOILERS B-1, B-2, BOILER PUMPS P-1, P-2, HEATING PUMPS P-5, P-6, DOMESTIC WATER HEATER, ELECTRICAL PANELS, BAS PANELS, GLYCOL TANK UNIT HEATER AND DUCT DISTRIBUTION. PROVIDE PROTECTION AT ALL TIME DURING CONSTRUCTION.
- [2] DISCONNECT, REMOVE AND DISPOSE EXISTING BOILERS B-3, PUMPS P-3, P-4, EXPANSION TANKS, HYDRONIC PIPES, CONDENSATE PIPE TO FLOOR DRAIN, BOILER VENT, INSULATION, SUPPORT, CONTROLS AND ACCESSORIES. SEAL, PATCH AND REPAIR PENETRATION OF ROOF. ALL ROOFING WORK TO COMPLETED BY DCDSB APPROVED VENDOR.
- [3] DISCONNECT, REMOVE BACK TO THE MAIN OF EXISTING GAS PIPING CONNECTING TO THE REMOVED BOILER.
- [4] EXISTING FLOOR FUNNEL DRAIN(S) AND FLOOR DRAIN(S) TO REMAIN. CAP AND PROTECT DURING CONSTRUCTION. POWER FLUSH DRAIN UPON COMPLETION. TYPICAL FOR ALL.
- [5] CUT PIPE AS INDICATED AND TEMPORARY CAP DURING CONSTRUCTION. REFER TO DISTRIBUTION DIAGRAM FOR MORE INFORMATION. CAPTURE AND REFILL GLYCOL UPON COMPLETION OF WORK.

**GENERAL NOTES**

PRIOR TO DEMOLITION, COMPLETE PRE-CONSTRUCTION WATER AUDIT VIA CLAMP-ON (ULTRASONIC) METER TO DETERMINE FLOW RATE AT EACH LOOP. AUDIT TO BE OBTAINED WITH ALL TERMINAL UNITS CONTROL VALVES IN FULLY OPEN POSITION. CONTROLS CONTRACTOR TO PROVIDE ASSISTANCE AS REQUIRED. MEASURED FLOWS TO BE RECORDED AND USED TO RE-BALANCE SYSTEM FOLLOWING INSTALLATION.



**2**  
M2.1 **NEW CONSTRUCTION**

**REFERENCE NOTES**

- [1] CLEAN, SCRAPE EXISTING FLOOR, LEVEL AND PATCH THE FLOOR AND PADS. EPOXY PAINT BOILER ROOM FLOOR INCLUDING NEW AND EXISTING PADS. BEFORE INSTALLING NEW EQUIPMENT. FLOORS SHALL BE LIGHT GREY WITH CURBS AND PAD EDGES YELLOW. PAINT SHALL BE SHERWIN WILLIAMS, WATER BASED 2-COMPONENT EPOXY, REFERENCE B70-200. PAINTING PROCEDURE SHALL FOLLOW MANUFACTURER'S MANUAL.
- [2] SUPPLY AND INSTALL NEW HEAT EXCHANGER, PUMPS AND EXPANSION TANK. PROVIDE HYDRONIC PIPING, INSULATION, SUPPORT AND ACCESSORIES. REFER TO THE SPECIFICATION AND SCHEMATIC DRAWING M2.3 FOR DETAIL AND PIPE SIZE.
- [3] PROVIDE WALL BOLTED HOLDER FOR THE CLOSEOUT DOCUMENTS FOLDER.
- [4] EXISTING HEATING PUMPS P-5 & P-6 TO BE CONVERTED TO VFD CONTROL. ARMSTRONG, 4380 3x3x10, 208V-3PH, 5HP. SUPPLY NEW VFDs.
- [5] PROVIDE NEW 100mm CONCRETE PAD FOR THE NEW EQUIPMENT.
- [6] HYDRONIC HEATING WATER CHEMICAL TREATMENT (POT FEEDER AND FILTER) LOCATION.

**GENERAL NOTE**

RE-BALANCE BRANCH PIPING TO FLOWS OBTAINED DURING PRE-CONSTRUCTION AUDIT.

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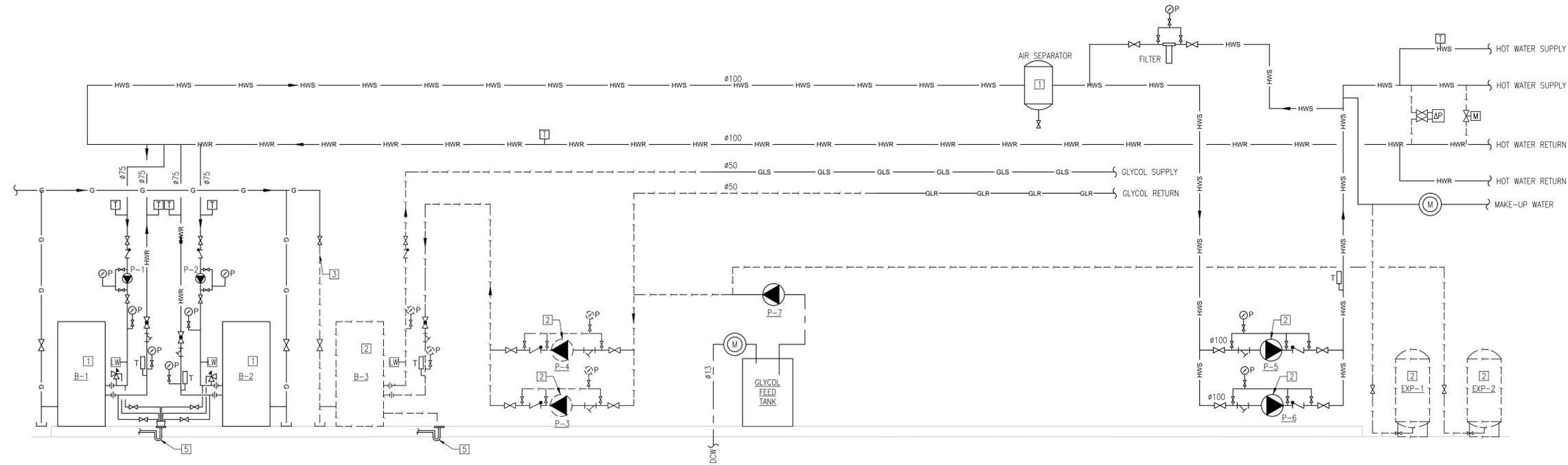
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CLIENT ID: T26-05  
DYNAMIS ID: 26-485

**DRAWING TITLE:**  
BOILER ROOM - DEMOLITION AND NEW CONSTRUCTION

DRAWING SCALE:	1:50	YYYY-MM-DD:	2026-01-12	DRAWN BY:	TK	CHECKED BY:	MT
DRAWING NUMBER:	M2.1	REVISION:	ROO				



**REFERENCE NOTES**

- 1 EXISTING EQUIPMENT TO REMAIN, INCLUDING BOILERS B-1, B-2, BOILER PUMPS P-1, P-2, HEATING PUMPS P-5, P-6, DOMESTIC WATER HEATER, ELECTRICAL PANELS, BAS PANELS, GLYCOL TANK UNIT HEATER AND DUCT DISTRIBUTION. PROVIDE PROTECTION AT ALL TIME DURING CONSTRUCTION.
- 2 DISCONNECT, REMOVE AND DISPOSE EXISTING BOILERS B-3, PUMPS P-3, P-4, EXPANSION TANKS, HYDRONIC PIPES, CONDENSATE PIPE TO FLOOR DRAIN, BOILER VENT, INSULATION, SUPPORT, CONTROLS AND ACCESSORIES. SEAL, PATCH AND REPAIR PENETRATION OF ROOF. ALL ROOFING WORK TO COMPLETED BY DCDSB APPROVED VENDOR.
- 3 DISCONNECT, REMOVE BACK TO THE MAIN OF EXISTING GAS PIPING CONNECTING TO THE REMOVED BOILER.
- 4 EXISTING FLOOR FUNNEL DRAIN(S) AND FLOOR DRAIN(S) TO REMAIN. CAP AND PROTECT DURING CONSTRUCTION. POWER FLUSH DRAIN UPON COMPLETION. TYPICAL FOR ALL.
- 5 CUT PIPE AS INDICATED AND TEMPORARY CAP DURING CONSTRUCTION. REFER TO DISTRIBUTION DIAGRAM FOR MORE INFORMATION. CAPTURE AND REFILL GLYCOL UPON COMPLETION OF WORK.

**GENERAL NOTES**

PRIOR TO DEMOLITION, COMPLETE PRE-CONSTRUCTION WATER AUDIT VIA CLAMP-ON (ULTRASONIC) METER TO DETERMINE FLOW RATE AT EACH LOOP. AUDIT TO BE OBTAINED WITH ALL TERMINAL UNITS CONTROL VALVES IN FULLY OPEN POSITION, CONTROLS CONTRACTOR TO PROVIDE ASSISTANCE AS REQUIRED. MEASURED FLOWS TO BE RECORDED AND USED TO RE-BALANCE SYSTEM FOLLOWING INSTALLATION.

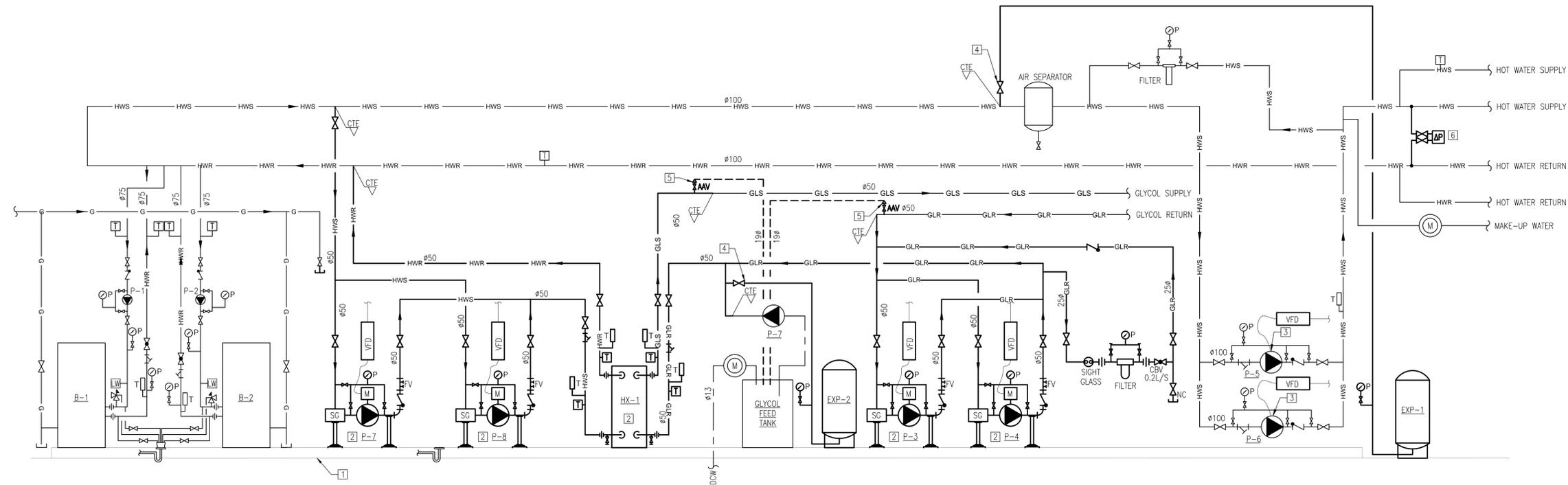
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DRAWING TITLE: DISTRIBUTION DIAGRAM DEMOLITION			
DRAWING SCALE: NTS	YYYY-MM-DD: 2026-01-12	DRAWN BY: TK	CHECKED BY: MT
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**REFERENCE NOTES**

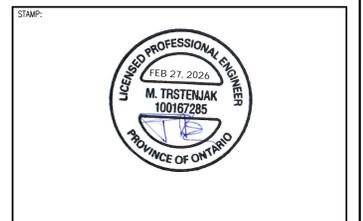
- [1] CLEAN, SCRAPE EXISTING FLOOR, LEVEL AND PATCH THE FLOOR AND PADS. EPOXY PAINT WHOLE ROOM FLOOR INCLUDING PADS, BEFORE INSTALLING NEW EQUIPMENT. FLOORS SHALL BE LIGHT GREY WITH CURBS AND PAD EDGES YELLOW. PAINT SHALL BE SHERWIN WILLIAMS, WATER BASED 2-COMPONENT EPOXY, REFERENCE B70-200. PAINTING PROCEDURE SHALL FOLLOW MANUFACTURER'S MANUAL.
- [2] SUPPLY AND INSTALL NEW HEAT EXCHANGER, PUMPS AND EXPANSION TANK. PROVIDE HYDRONIC PIPING, INSULATION, SUPPORT AND ACCESSORIES. REFER TO DRAWING M1.2 FOR INSTALLATION DETAILS.
- [3] EXISTING HEATING PUMPS P-5 & P-6 TO BE CONVERTED TO VFD CONTROL. SUPPLY NEW VFDs.
- [4] ISOLATION VALVES TO BE COMPLETED WITH LOCKSHIELD.
- [5] PIPE ALL RELIEFS AND DRAINS OF GLYCOL SYSTEM BACK TO GLYCOL FEED TANK.
- [6] DIFFERENTIAL PRESSURE SENSOR ASSEMBLY. SEE DETAIL 2 ON M1.2 FOR MORE INFORMATION.
- [7] SUPPLY AND INSTALL HYDRONIC HEATING WATER CHEMICAL TREATMENT (POT FEEDER AND FILTER).

**GENERAL NOTE**

RE-BALANCE BRANCH PIPING TO FLOWS OBTAINED DURING PRE-CONSTRUCTION AUDIT.  
ALL SHUTOFF VALVES SHALL BE GATE VALVES. OTHER ISOLATION VALVES SHALL BE BUTTERFLY (REFER TO THE SPECIFICATION) OR GLOBE.

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DRAWING TITLE:  
**DISTRIBUTION DIAGRAM  
NEW CONSTRUCTION**

DRAWING SCALE:	NTS	YYYY-MM-DD:	2026-01-12	DRAWN BY:	TK	CHECKED BY:	MT
DRAWING NUMBER:	M2.3			REVISION:	R00		

MECHANICAL EQUIPMENT SCHEDULE															
TAG	QTY	EQUIPMENT	LOCATION	VOLTAGE (V)	PHASES (#)	MOTOR (HP)	MCA (A)	FEED FROM	BREAKER (A)	FUSE (A)	POLES	WIRES (RWSO Cu)	CONDUIT	CONTROL DEVICES	REMARKS
P-3	1	GLYCOL HEATING PUMP	BOILER ROOM	208	3	2	--	MCC	-	15	3	3#12+G	3/4"	VFD	-PROVIDE POWER FROM THE EXISTING BUCKET IN THE MCC. PROVIDE NEW FUSES , WIRING AND CONDUITS. RUN POWER TO THE VFD, AND FROM VFD TO THE PUMP MOTOR. FINAL CONNECTION TO THE PUMP MOTOR IN FLEXIBLE WATERTIGHT CONDUIT.
P-4	1	GLYCOL HEATING PUMP	BOILER ROOM	208	3	2	--	MCC	-	15	3	3#12+G	3/4"	VFD	-PROVIDE POWER FROM THE EXISTING BUCKET IN THE MCC. PROVIDE NEW FUSES , WIRING AND CONDUITS. RUN POWER TO THE VFD, AND FROM VFD TO THE PUMP MOTOR. FINAL CONNECTION TO THE PUMP MOTOR IN FLEXIBLE WATERTIGHT CONDUIT.
P-7	1	HEAT EXCHANGER PUMP	BOILER ROOM	208	3	0.75	--	MCC	-	5	3	3#12+G	3/4"	VFD	-PROVIDE POWER FROM THE EXISTING BUCKET IN THE MCC. PROVIDE NEW FUSES , WIRING AND CONDUITS. RUN POWER TO THE VFD, AND FROM VFD TO THE PUMP MOTOR. FINAL CONNECTION TO THE PUMP MOTOR IN FLEXIBLE WATERTIGHT CONDUIT.
P-8	1	HEAT EXCHANGER PUMP	BOILER ROOM	208	3	0.75	--	MCC	-	5	3	3#12+G	3/4"	VFD	-PROVIDE POWER FROM THE EXISTING BUCKET IN THE MCC. PROVIDE NEW FUSES , WIRING AND CONDUITS. RUN POWER TO THE VFD, AND FROM VFD TO THE PUMP MOTOR. FINAL CONNECTION TO THE PUMP MOTOR IN FLEXIBLE WATERTIGHT CONDUIT.
<p>1. CONFIRM LOCATION OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION, LOCATE ELECTRICAL DISTRIBUTION EQUIPMENT TO MAINTAIN ALL REQUIRED CLEARANCES;  2. CONFIRM ELECTRICAL REQUIREMENTS (VOLTAGE/BREAKER/FUSE SIZE) OF THE MECHANICAL EQUIPMENT WITH THE SHOP DRAWING PRIOR TO ORDERING DISTRIBUTION;</p>															

LEGEND	
SYMBOL	DESCRIPTION
---	EXISTING TO BE REMOVED
---	EXISTING TO REMAIN
---	NEW WORK
\$	SINGLE POLE TOGGLE SWITCH
\$	DOUBLE POLE TOGGLE SWITCH
\$SW	3-WAY SINGLE POLE TOGGLE SWITCH
⊕	DUPLEX RECEPTACLE 120V-1PH 15A
⊕	DUPLEX RECEPTACLE 120V-1PH 15A WITH ISOLATED GROUND
⊕	DUPLEX RECEPTACLE 120V-1PH 15A, SPLIT WIRED
⊕	SPECIAL RECEPTACLE, AS INDICATED ON THE DRAWINGS
⊕	DIRECT POWER CONNECTION 120V-1PH.
⊕	DIRECT POWER CONNECTION 208V-1PH.
⊕	DIRECT POWER CONNECTION 208V-3PH.
⊕	DIRECT POWER CONNECTION 575V-3PH.
⊕	DATA/NETWORK OUTLET
⊕	TELEPHONE OUTLET
⊕	COMBINATION DATA/NETWORK AND TELEPHONE OUTLET
⊕	UNFUSED DISCONNECT SWITCH
⊕	COMBINATION UNFUSED DISCONNECT AND MAGNETIC STARTER
⊕	FUSED DISCONNECT SWITCH
⊕	EMERGENCY SWITCH - MUSHROOM TYPE PUSH BUTTON
⊕	MAGNETIC MOTOR STARTER (HAND-OFF-AUTO)
AFF	ABOVE FINISHED FLOOR
GFI	GROUND FAULT INTERRUPTER
WP	WATER PROOF
A/F	FUSE RATING (AMPS)
EMT	ELECTRICAL METALLIC TUBING
EC	EMPTY CONDUIT
XP	EXPLOSION PROOF
'EX'	EXISTING TO REMAIN
'R'	REMOVE
'REL'	RELOCATE TO NEW LOCATION AS INDICATED
'N'	NEW
X.3	DENOTES CIRCUIT 3 IN THE PANEL X
TYP	TYPICAL
⊕	ELECTRIC MOTOR
⊕	PUMP WITH ELECTRIC MOTOR
VFD	VARIABLE FREQUENCY DRIVE
HOA	MAGNETIC MOTOR STARTER HAND-OFF-AUTO
TYP	TYPICAL



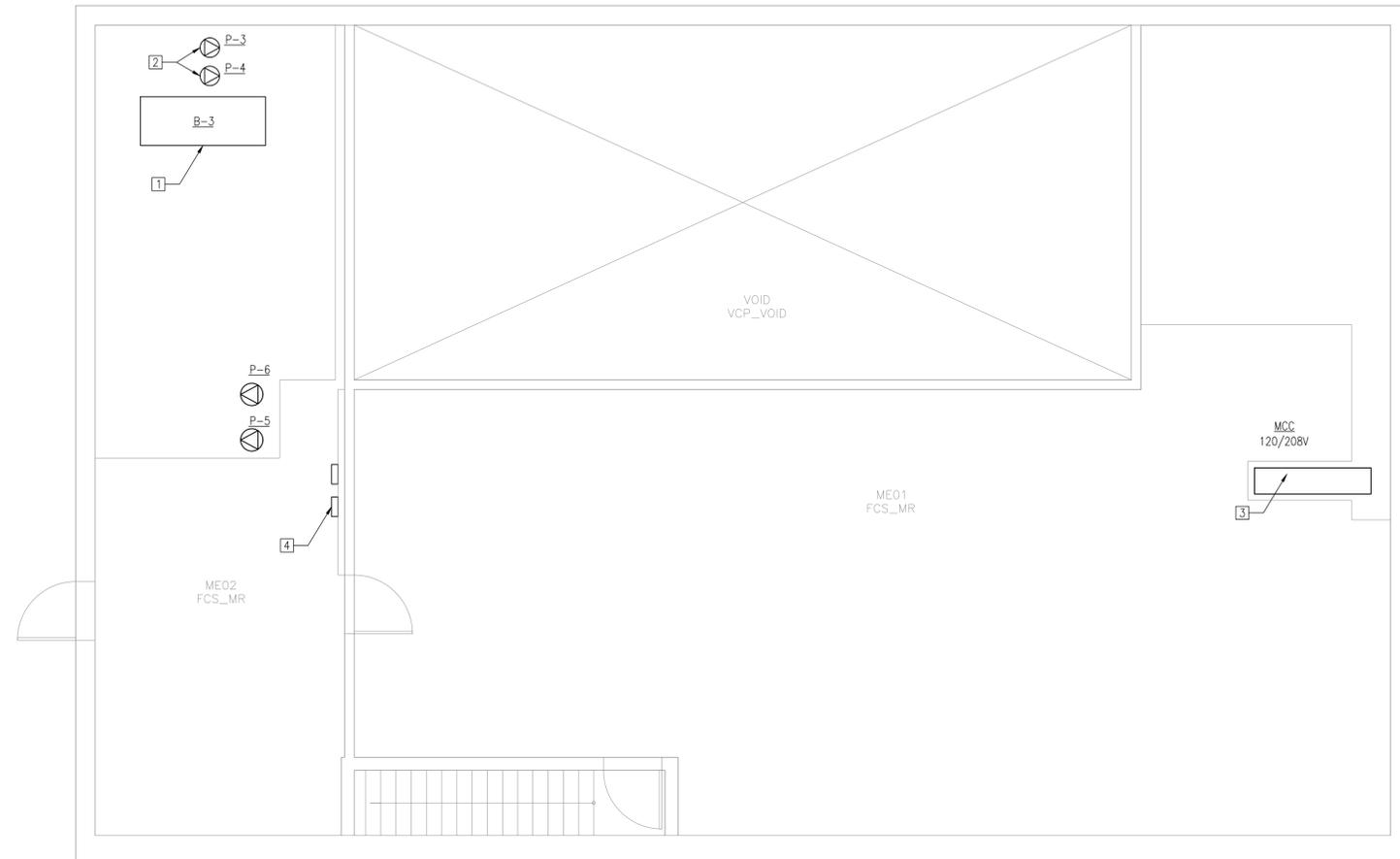
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CLIENT ID: T26-05  
DYNAMIS ID: 26-485

DRAWING TITLE: SCHEDULES, DETAILS AND DRAWING LEGENDS			
DRAWING SCALE: NTS	YYYY-MM-DD: 2026-01-12	DRAWN BY: TK	CHECKED BY: MT
DRAWING NUMBER: E 1.1	REVISION: R00		



**REFERENCE NOTES**

- 1 EXISTING BOILER B-3, FED FROM MCC IN THE AHU ROOM. DISCONNECT FROM POWER, REMOVE ALL EXISTING CONDUITS, WIRING AND BREAKER. MAKE SAFE. EXISTING STARTERS FOR BOILER SHALL BE REMOVED FROM THE BUCKET AND PLATE SHALL BE INSTALLED ON THE BUCKET DOOR. BUCKET TO REMAIN AS THE FUSED DISCONNECT SWITCH ONLY.
- 2 EXISTING PUMPS P-3 AND P-4, FED FROM MCC IN THE AHU ROOM. DISCONNECT AND REMOVE CONDUITS AND WIRING, MAKE SAFE. EXISTING STARTERS FOR PUMPS SHALL BE REMOVED FROM THE BUCKET AND PLATE SHALL BE INSTALLED ON THE BUCKET DOOR. BUCKET TO REMAIN AS THE FUSED DISCONNECT SWITCH ONLY. TYPICAL FOR 2.
- 3 EXISTING MCC IN THE AHU ROOM TO REMAIN. FEDERAL PIONEER, 120/208V, 800A, NO. 45221-02, TYPE QMQB.
- 4 DISCONNECT AND REMOVE EXISTING PUMPS STARTER OF P-3 AND P-4. PATCH AND REPAIR THE WALL. TRACE THE CABLE TO THE MCC/ PANEL, REMOVE ALL EXISTING CONDUITS, WIRING AND BREAKER. MAKE SAFE.

2	ISSUED FOR TENDER	DE	2026-02-27
1	ISSUED FOR 90% REVIEW	DE	2026-02-13
REV:	DESCRIPTION:	BY:	DATE:

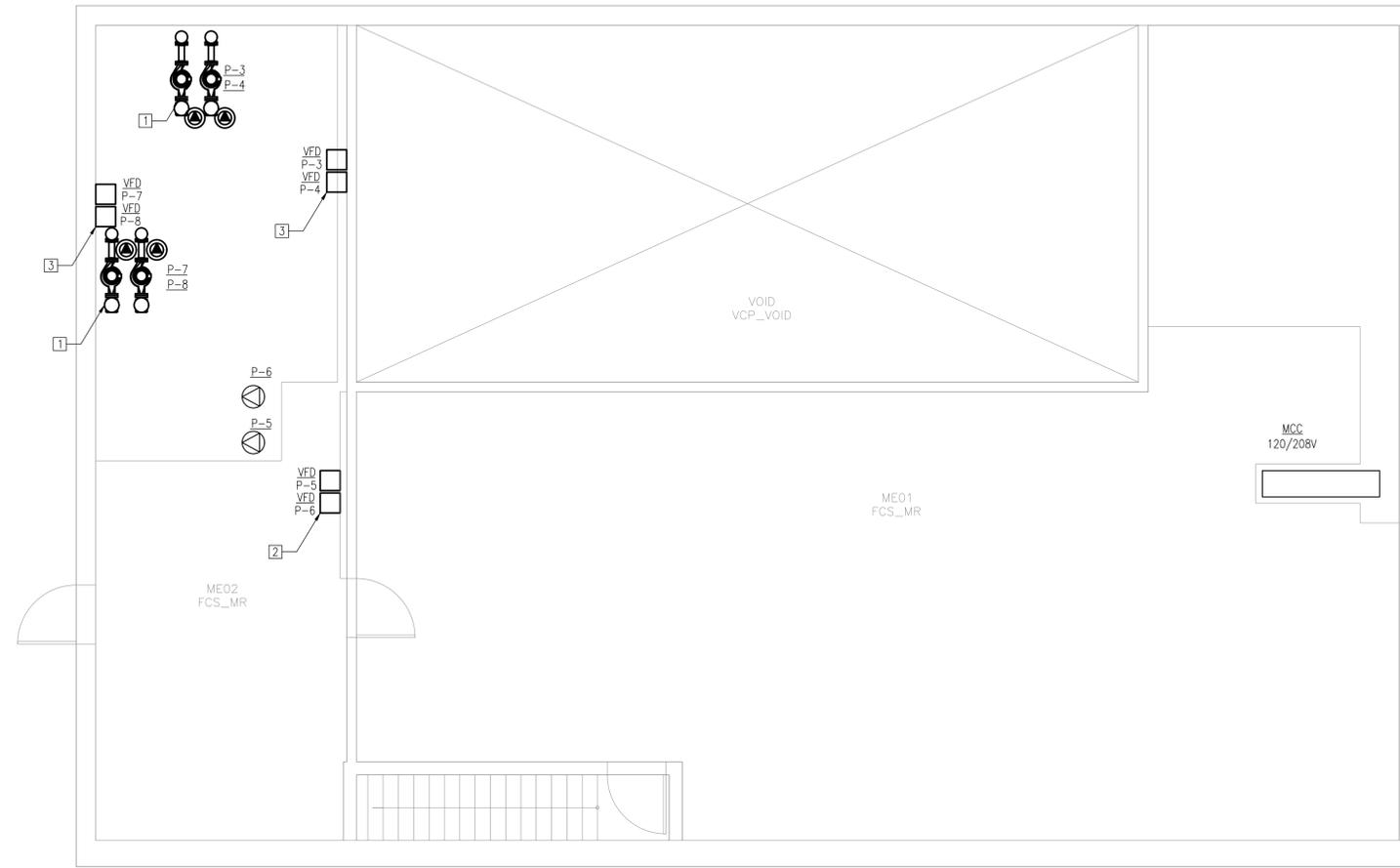
**DYNAMIS ENGINEERING INC**  
222 ISLINGTON AVENUE, SUITE 260  
TORONTO, ON M8V 3W7  
www.dynamiseng.com



PROJECT INFORMATION:  
TITLE: ST. CATHERINE OF SIENA C.S.  
GLYCOL BOILER TO HEAT EXCHANGER REPLACEMENT  
ADDRESS: 15 BENNETT AVE.  
AJEX, ONTARIO  
CLIENT ID: T26-05  
DYNAMIS ID: 26-485

DRAWING TITLE:  
BOILER ROOM - ELECTRICAL - DEMOLITION

DRAWING SCALE:	1:50	YYYY-MM-DD:	2026-01-12	DRAWN BY:	TK	CHECKED BY:	MT
DRAWING NUMBER:	E2.1	REVISION:					



- REFERENCE NOTES**
- 1 PROVIDE POWER FOR THE NEW EQUIPMENT AS INDICATED, FROM EXISTING PANEL OR MCC.
  - 2 INSTALL NEW VFDs FOR THE EXISTING PUMPS P-5 & P-6 ON THE WALL, AS INDICATED.
  - 3 INSTALL NEW VFDs FOR THE NEW PUMPS ON THE WALL, AS PER MANUFACTURER RECOMMENDATIONS AND ELECTRICAL CODE. EXISTING HEATING PUMPS P-5 & P-6 (ARMSTRONG 4380, 3x3x10, 208V, 3Ø, 5HP) TO BE CONVERTED TO VFD CONTROL.

REV.	DESCRIPTION:	BY:	DATE:
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1	ISSUED FOR 90% REVIEW	DE	2026-02-13

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**DRAWING TITLE:**  
BOILER ROOM - ELECTRICAL - NEW CONSTRUCTION

DRAWING SCALE: 1:50	YYYY-MM-DD: 2026-01-12	DRAWN BY: TK	CHECKED BY: MT
DRAWING NUMBER: E2.1		REVISION: ROO	