

HVAC LEGEND	
	SUPPLY OR OUTDOOR AIR DUCTWORK
	RETURN OR EXHAUST AIR DUCTWORK
	LOW VELOCITY ACOUSTIC INSULATION
	TURNING VANES
	EXISTING EQUIPMENT/DUCTWORK TO REMAIN
	EQUIPMENT/DUCTWORK
	EXISTING TO BE REMOVED
	S/A SUPPLY AIR DUCTWORK
	R/A RETURN AIR DUCTWORK
	O/A OUTDOOR AIR DUCTWORK
	E/A EXHAUST AIR DUCTWORK
	MANUAL BALANCING DAMPER
	BACK DRAFT DAMPER
	BLAST GATE DAMPER
	MOTORIZED DAMPER
	OPPOSED BLADE VOLUME CONTROL DAMPER
	FIRE DAMPER
	SMOKE DAMPER
	FIRE/SMOKE DAMPER
	CUBIC FEET PER MINUTE
	DIFFUSER DESIGNATION - NECK DIA.
	CUBIC FEET PER MINUTE
	GRILLE DESIGNATION
	ACCESS DOOR
	(E) EXISTING
	CONNECT TO EXISTING

PIPING/ PLUMBING LEGEND	
	EXISTING HEAT PUMP SUPPLY TO REMAIN
	HEAT PUMP SUPPLY
	EXISTING HEAT RETURN TO REMAIN
	HEAT PUMP RETURN
	EXISTING COLD WATER TO REMAIN
	COLD WATER
	EXISTING HOT WATER TO REMAIN
	HOT WATER
	EXISTING HOT WATER RECIRC. TO REMAIN
	HOT WATER RECIRC.
	FLOOR DRAIN
	FUNNEL FLOOR DRAIN
	SHUT-OFF VALVE
	STRAINER
	UNION
	BACKFLOW PREVENTER
	MOTOR
	METER
	INLINE PUMP
	STEAM TRAP
	CAP
	PIPING UP
	PIPING DOWN
	FLOOR DRAIN
	FLOW ARROW
	CONCENTRIC REDUCER
	UNION
	EXISTING
	CONNECT TO EXISTING

VALVE LEGEND	
	SHUT-OFF VALVE - SEE SPECIFICATIONS
	BUTTERFLY VALVE
	CIRCUIT BALANCING VALVE
	GLOBE VALVE
	ELECTRICALLY SUPERVISED VALVE
	ELECTRICALLY SUPERVISED 3-WAY VALVE
	3-WAY VALVE
	AUTOMATIC CONTROL VALVE (ACV)
	GAS SHUT-OFF VALVE
	PNEUMATIC 3-WAY VALVE
	PRESSURE REDUCING VALVE
	PRESSURE RELIEF VALVE
	STRAINER
	ELECTRIC 2-WAY VALVE
	AUTOMATIC AIR VENT
	CHECK VALVE
	THERMOMETER
	THERMOSTATIC MIXING VALVE
	CONNECT TO EXISTING

DRAWING LIST	
SHEET NUMBER	SHEET NAME
M001	LEGEND AND DRAWING LIST AND MECHANICAL SCHEDULES
ME100	G WING - ROOF PLAN - HVAC DEMO. & MOD. PLANS AND ELEC. NOTES
ME101	G WING - MECH. ROOM - HVAC AND PIPING DEMO. & MOD. PLANS AND ELEC. NOTES
M700	EXISTING HEATING FLOW PIPING SCHEMATIC

No.	ISSUANCE	DATE
0	ISSUED FOR BID	04.10.24

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COOLING TOWER SCHEDULE

TAG	SERVICE	MAKE	MODEL	FLUID	FLOW [USGPM]	FLUID PD [PSI]	FLUID		HEAT REJECTION [MBH]	EAT [F] WB	AIRFLOW [CFM]	ESP [IN WC]	FAN			SPRAY PUMP		UNIT ELECTRICAL				DIMENSIONS [IN]			WEIGHT [LBS]	NOTES		
							EWT [F]	LWT [F]					HP	RPM	QTY	HP	RPM	QTY	VOLT	PH	HZ	MCA	MOCAP	LENGTH			WIDTH	HEIGHT
CT-01	HEAT PUMP SYSTEM	BAC	NXF-0403N-CS2TS-H3	100% WATER	293	1.66	102	92.04	1464	75.92	25248	0.5	5	1800	3	0.5	3500	3	460	3	60	28.1	30	118.5	49.625	101.75	8512	1-11

DIV 15 TO PROVIDE ALL CONTROL WIRING. POWER WIRING TO UNIT BY DIV 16

- NOTES
- MODULAR COOLING TOWER THREE MODULE UNIT COMPLETE WITH UNIT MOUNT CONTROL PANEL, SINGLE POINT ELECTRICAL CONNECTION WITH DISCONNECT SWITCH
 - WIRE INTAKE DAMPER TO COOLING TOWER CONTROL PANEL
 - PIPE BASIN OVERFLOW AND DRAIN LINES TO LOCAL HUB DRAIN
 - PROVIDE AIR VENT AND DRAIN VALVE ON COOLING TOWER PROCESS FLUID HEADERS
 - PROVIDE MAKE UP WATER CONNECTION TO BASIN. PROVIDE ISOLATION VALVE
 - PROVIDE CONDUCTIVITY PROBE, CHEMICAL FEED SUPPLY/RETURN LINE TO BASIN
 - WIRE TEMPERATURE SENSOR IN PROCESS WATER LINE TO CONTROL PANEL
 - UNIT C/W INTAKE DUCT ADAPTERS
 - UNIT C/W TAPERED DISCHARGE HOOD WITH POSITIVE CLOSE DAMPERS
 - PROVIDE BASE RAILS WITH VIBRATION ISOLATION
 - WIRE UNIT CONTROL PANEL TO BUILDING BAS SYSTEM.

DAMPER SCHEDULE

TAG	MAKE	MODEL	SERVING	AIRFLOW [CFM]	PRESS DROP [IN WC]	DIMENSION [IN]		ELECTRICAL			NOTES
						LENGTH	HEIGHT	VOLT	PH	HZ	
DMP01	TAMCO	9000	COOLING TOWER SUPPLY AIR	25248		148"	52"	120	1	60	1,2

- NOTES
- PROVIDE BELIMO ACTUATOR C/W NEMA 4X ENCLOSURE, SIZED FOR TIGHT SHUTOFF
 - WIRE DAMPER TO COOLING TOWER CONTROL PANEL. DAMPER TO OPEN ON ENABLE SIGNAL FROM COOLING TOWER

CONTROL VALVE SCHEDULE

TAG	MAKE	MODEL	TYPE	SIZE [IN]	FLOW [USGPM]	VOLT	ELECTRICAL		NOTES
							PH	HZ	
CV01	SESTO	MM1F-06-C8LF-E724H-FAK-S007	BALL	6	255	120	1	60	1,2,3

- NOTES
- MM1F-06-C8LF-L, 6" SESTO SERIES MM1F 3-WAY FLOATING BALL VALVE, (L-PORT) CLASS 150, RF, ASTM A216 WCB BODY, SS316 BALL AND STEM, TFM1600 SEAT, 4-SEAT DESIGN, ISO NON-DIRECT MOUNT PAD.
MAX-AIR MODEL#: MESH089-120A0007, RATED TORQUE : 8855 IN-LBS / 1000 NM, OPERATING VOLTAGE: 120VAC 50/60HZ, CONTROL TYPE: OPEN/CLOSE/JOG STD. DUTY: 100% (EN 60034) / CLASS B (ISO 22513), MANUAL OVERRIDE: CLUTCH-FREE HANDWHEEL, ELECTRICAL ENTRY: (2) X 3/4" NPT PORTS, AUX SWITCHES: (2) FORM C RATED 5A @ 250VAC RESISTIVE, ANTI-CONDENSATE HEATER - THERMOSTATICALLY CONTROLLED, MOUNT: ISO5211 F1/2 / ONLY X 36 DSO X 50MM DEEP, OPERATING TEMPERATURE: -22 F → 149 F (-30 C → 65 C), ANGLE OF ROTATION: 90 DEG, SPEED: 50 SEC AT RATED TORQUE AND VOLTAGE, ENCLOSURE: NEMA 4X, 5 & IP67, COLOR: RAL7045, PRODUCT WEIGHT: 32 KG / 70.4LB, FIELD WIRING DIAGRAM: WDME-10M-67, MOUNTING KIT.
 - INCLUDE INTEGRATION OF CONTROL VALVE IN TO BAS SYSTEM.

WALL LOUVER SCHEDULE

TAG	MAKE	MODEL	AIRFLOW [CFM]	PRESS DROP [IN WC]	FREE AREA [FT2]	FPM	DIMENSIONS [IN]			WEIGHT [LBS]	NOTES
							LENGTH	WIDTH	HEIGHT		
WL01	POTTORFF	EFD-435	25248	0.11	30.31	833	148	4	52	150	1,2

- NOTES
- EXTRUDED ALUMINUM LOUVER, 4" DEEP, 35 DEGREE DRAINABLE BLADES, HIDDEN MULLION, BIRDSCREEN
 - CONTRACTOR TO BUILD GALVANIZED STEEL PLENUM ON ROOF FOR INSTALLATION OF LOUVER

PUMP SCHEDULE

TAG	MAKE	MODEL	SIZE	FLOW [USGPM]	TDH [FT]	FLUID		PUMP HP	MOTOR RPM	MOTOR ENCL	CONN [IN]	ELECTRICAL			WEIGHT [LBS]	NOTES
						TYPE	TEMP [F]					VOLT	PH	HZ		
P01	XYLEM	2ST	2ST2CCH4	20	16	WATER	85	0.5	1750	TEFC	1.25	575	3	40	60	1,2,3,4

- NOTES
- STAINLESS STEEL BODY, STAINLESS STEEL IMPELLER, MECHANICAL SEAL
 - INTERLOCK CIRCULATION PUMP WITH CHEMICAL FEED CONTROLLER AND FLOAT SWITCH. PUMP TO OPERATE WHEN BASIN IS FULL
 - PROVIDE LOSE STARTER FOR PUMP
 - CLOSE COUPLED END SUCTION PUMP

BACKFLOW PREVENTER SCHEDULE

TAG	MAKE	MODEL	SERVING	SIZE [IN]	FLOW [USGPM]	PRESS DROP [PSI]	NOTES
BFPO1	WATTS	009M2QT	COOLING TOWER MAKE UP WATER	1	20	10	1,2

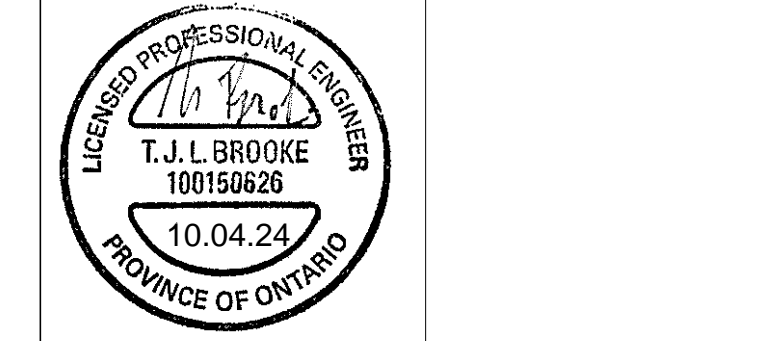
- NOTES
- REDUCED PRESSURE BACK FLOW PREVENTER ASSEMBLY, LISTED TO CSA B64.4
 - PROVIDE AIR GAP. PIPE TO LOCAL HUB DRAIN

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PROJECT
MOHAWK COLLEGE G-WING COOLING TOWER REPLACEMENT

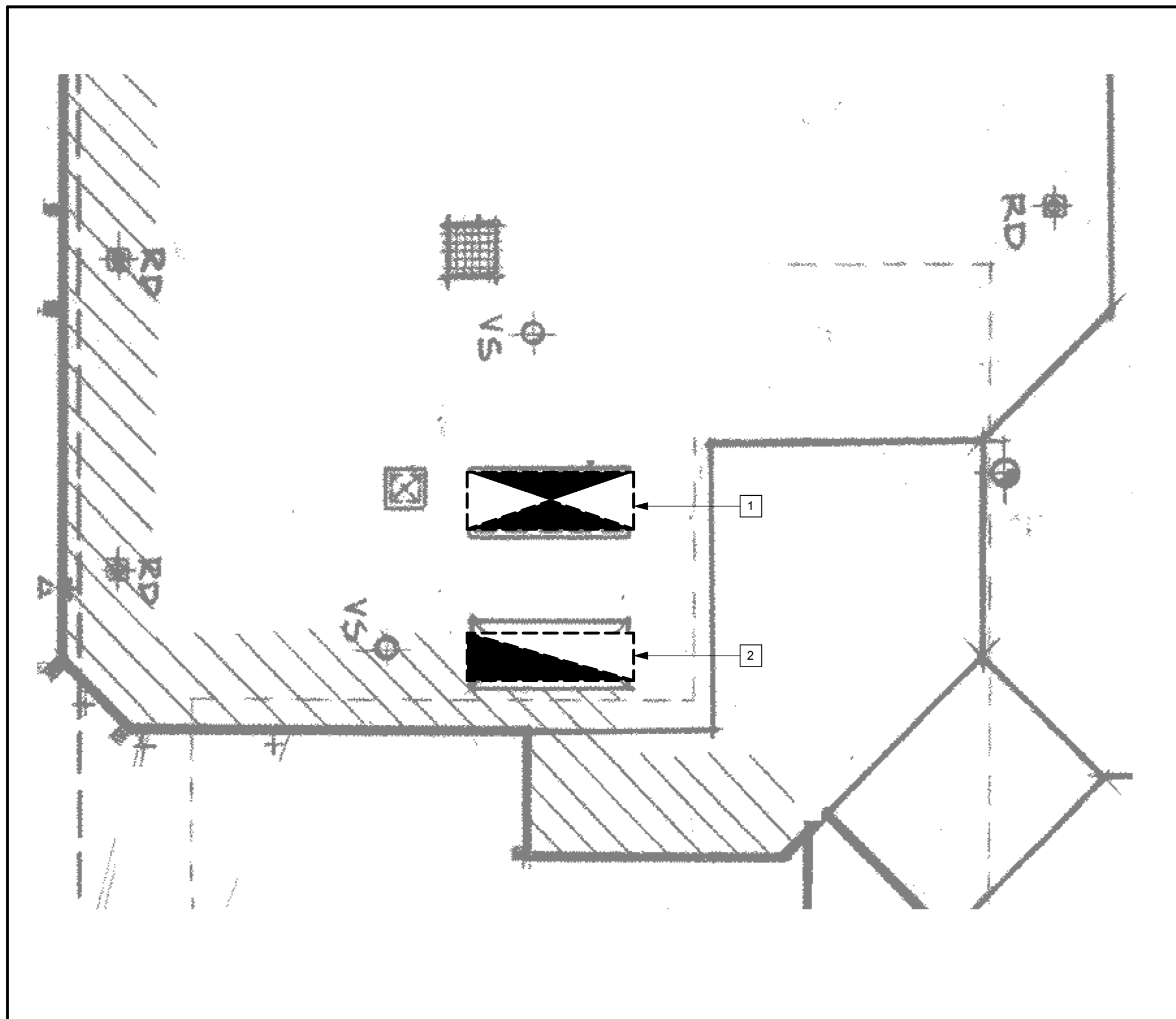
TITLE
LEGEND AND DRAWING LIST AND MECHANICAL SCHEDULES

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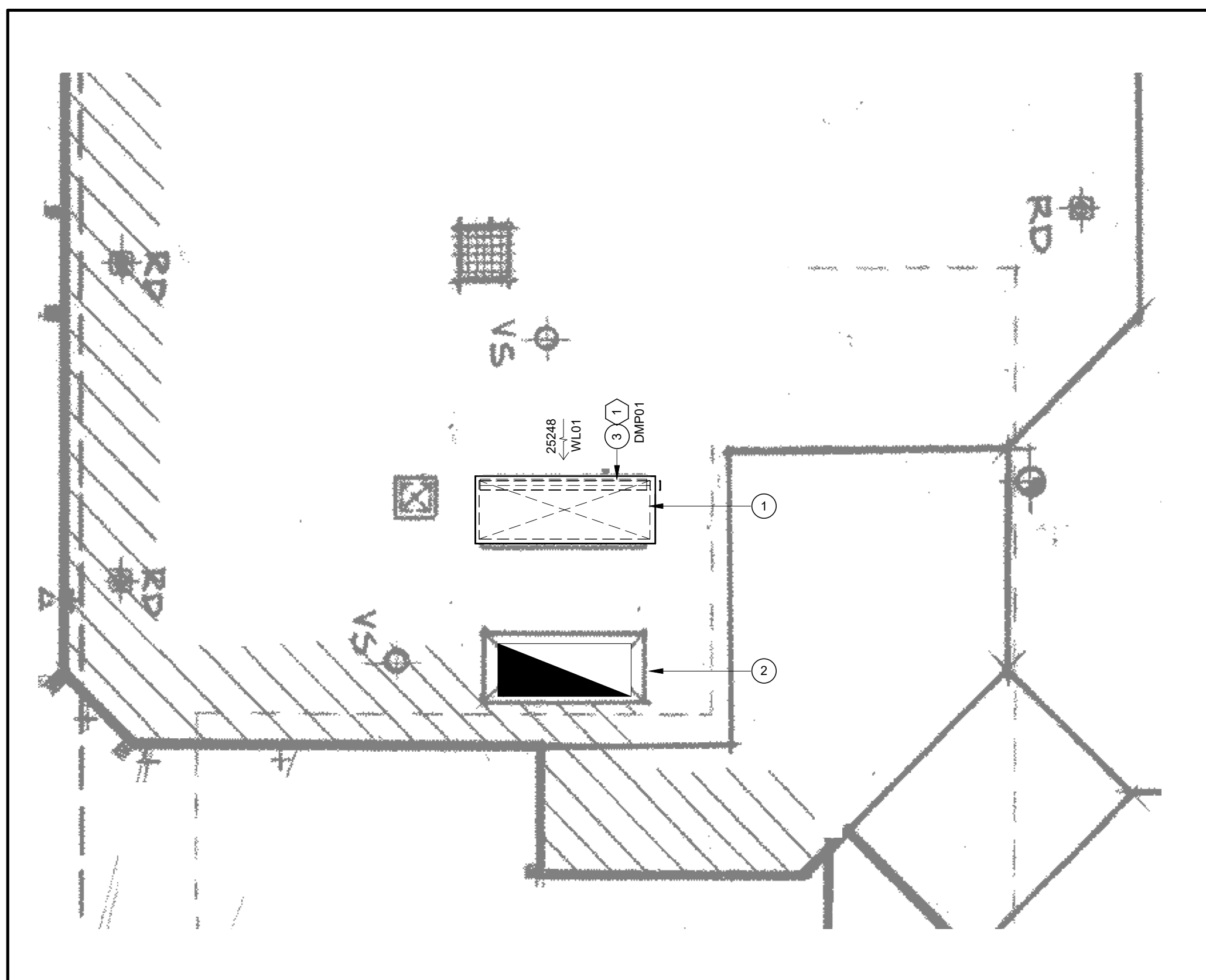
1 G WING - ROOF PLAN - HVA/C DEMOLITION
ME100 Scale: 1 : 100



3 EXISTING COOLING TOWER LOUVERED SUPPLY PENTHOUSE
ME100 N.T.S.



4 EXISTING COOLING TOWER DISCHARGE HOOD
ME100 N.T.S.



2 G WING - ROOF PLAN - HVA/C MODIFICATION
ME100 Scale: 1 : 100

DEMOLITION NOTES

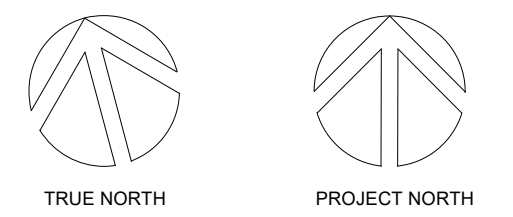
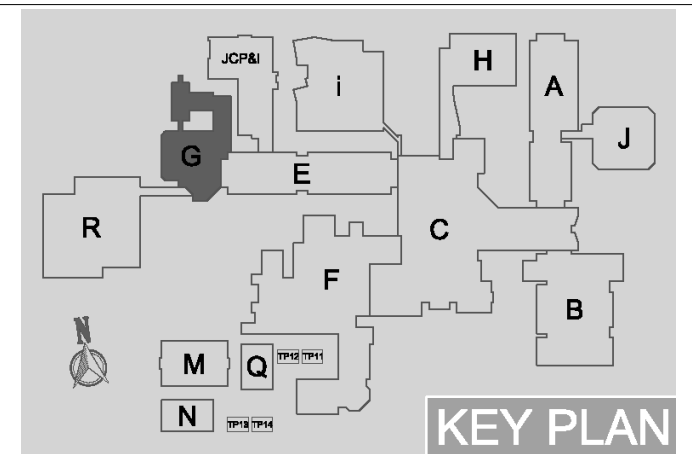
- EXISTING LOUVERED SUPPLY PENTHOUSE TO BE REMOVED. RE-USE EXISTING ROOF CURB. CONTRACTOR TO PROTECT OPENINGS DURING CONSTRUCTION FROM WEATHER.
- EXISTING DISCHARGE HOOD, DAMPER TO BE REMOVED. RE-USE EXISTING ROOF CURB. CONTRACTOR TO PROTECT OPENINGS DURING CONSTRUCTION FROM WEATHER.

DRAWING NOTES

- INSTALL NEW FULLY WELDED GALVANIZED STEEL PLENUM 4064x1524x1524 (16'0"x6'0"x6'0") HIGH. INSTALL NEW WALL LOUVERS AND DAMPERS. WIRE DAMPER ACTUATORS TO COOLING TOWER CONTROL PANEL. REUSE EXISTING ROOF CURB. PROVIDE ACCESS DOOR TO ACCESS DAMPER ACTUATOR.
- EXTEND EXHAUST DUCT TO 4.572 M (15 FT) ABOVE ROOF. INSTALL TAPERED DISCHARGE HOOD C/W DAMPER. WIRE DAMPER TO COOLING TOWER CONTROL PANEL.
- MOUNT DAMPER ON BACK SIDE OF WALL LOUVER. WIRE DAMPER TO COOLING TOWER CONTROL PANEL.

ELECTRICAL DRAWING NOTES

- PROVIDE POWER FOR DAMPER AND CONTROL VALVE FROM AVAILABLE SPARE CIRCUIT IN PANEL LPL. PROVIDE 1X15A-1P BREAKER AND 24'12AWG + 18'12GND IN 27MM CONDUIT FOR EACH LOCATION. PROVIDE LOCAL DISCONNECT SWITCH IN THE MECHANICAL ROOM NEAR THE DAMPER IN AN ACCESSIBLE LOCATION.



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PROJECT
MOHAWK COLLEGE G-WING COOLING TOWER REPLACEMENT

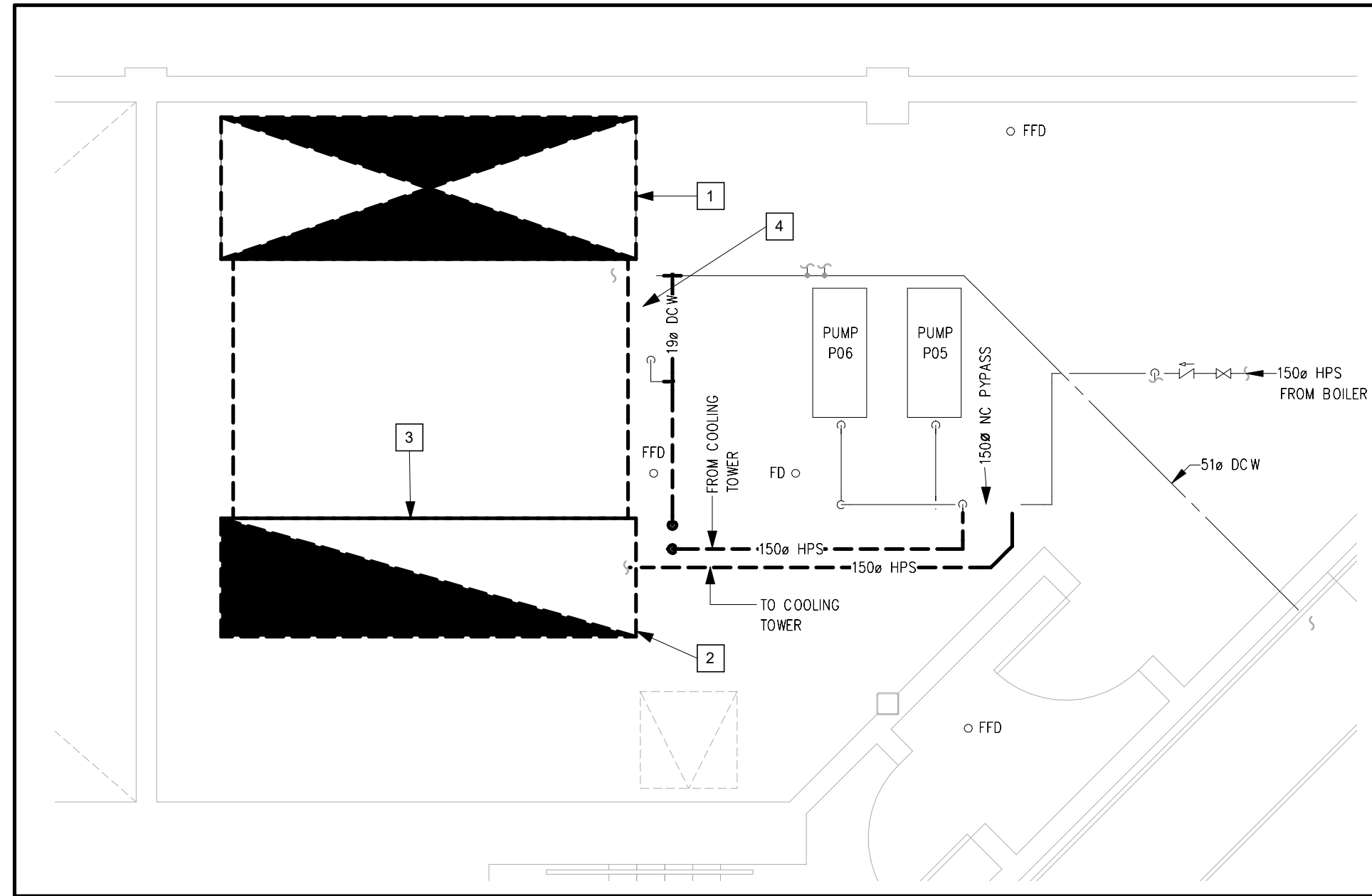
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G WING - ROOF PLAN - HVA/C DEMO. & MOD. PLANS AND ELEC. NOTES

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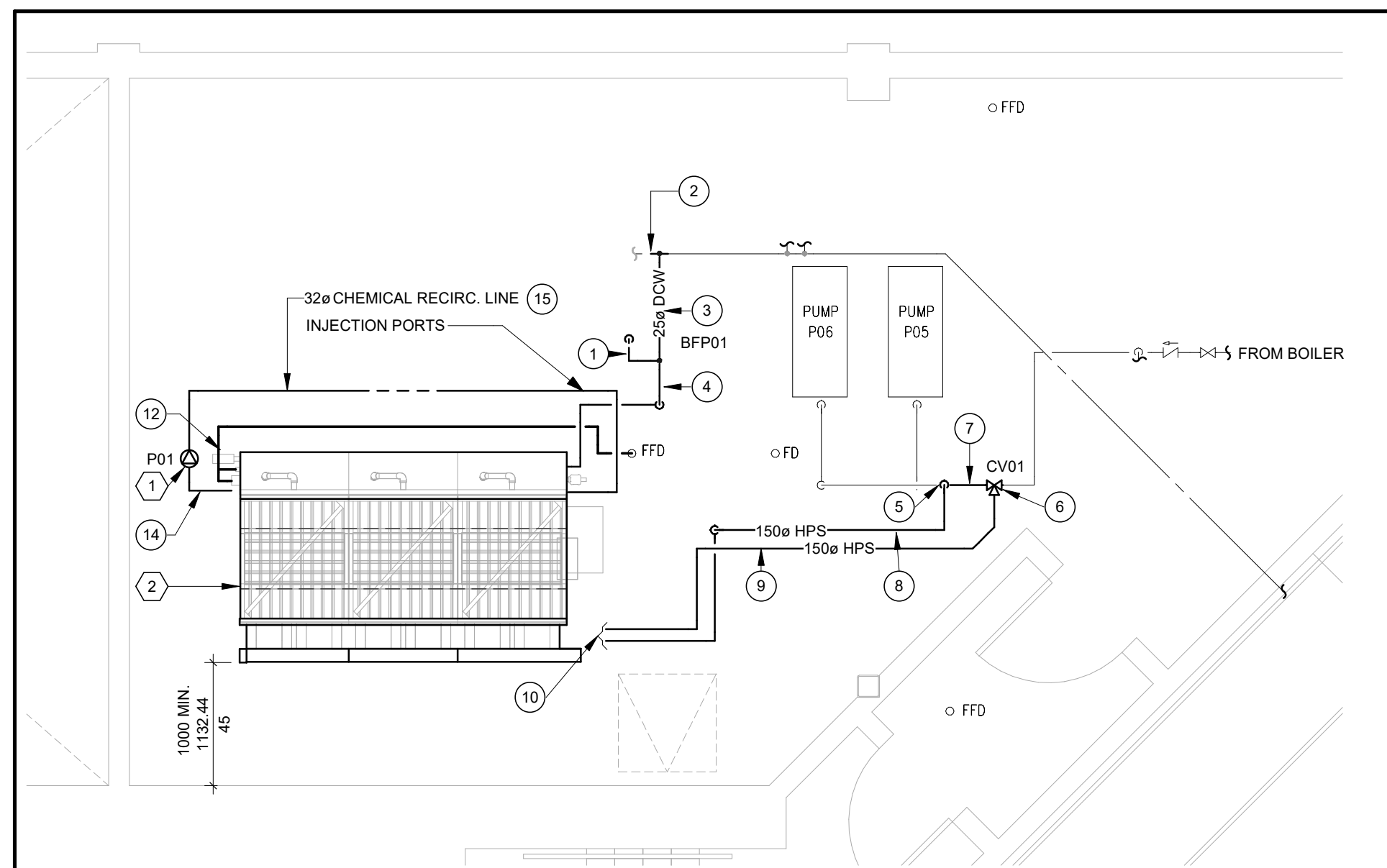
1 MECHANICAL ROOM - HVAC AND PIPING DEMOLITION PLAN
ME101 Scale: 1 : 50



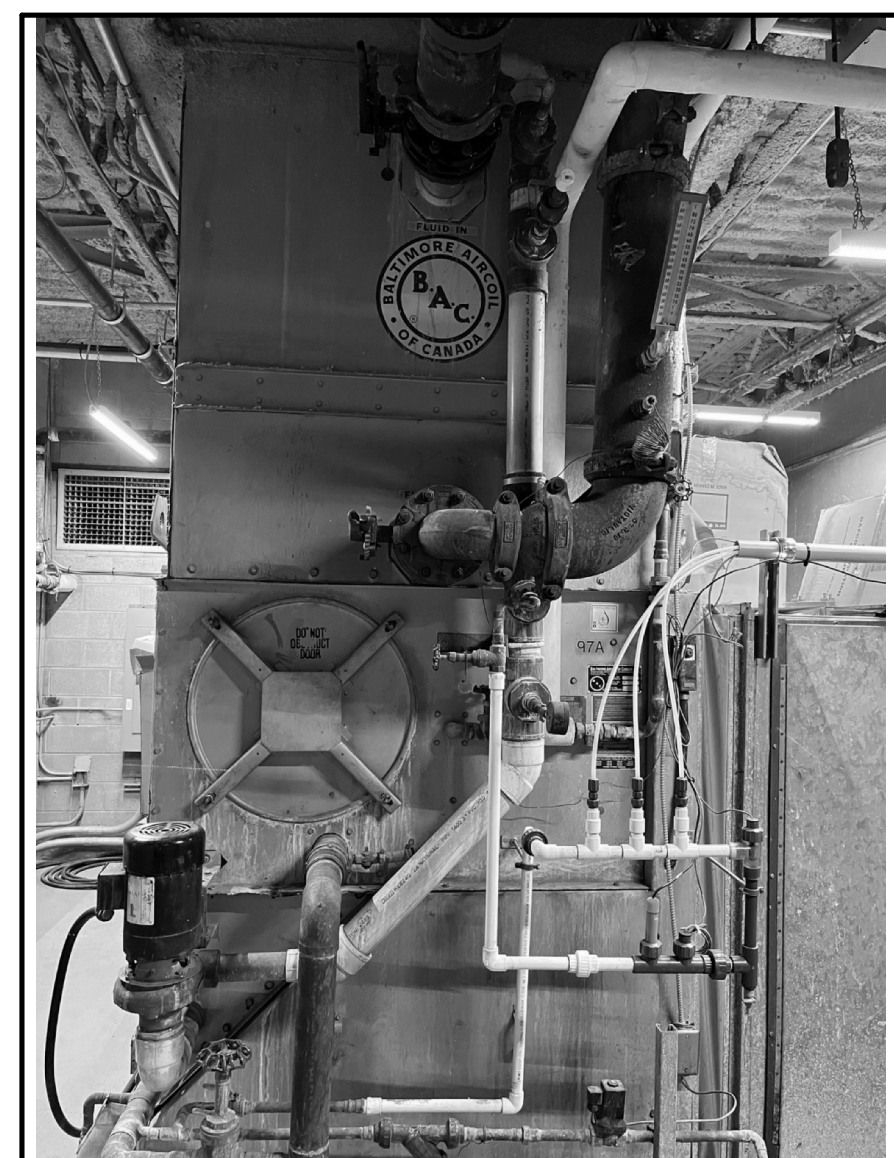
4 EXISTING COOLING TOWER SUPPLY DUCTWORK FROM ROOF.
ME101 N.T.S.



7 EXISTING COOLING TOWER OVER FLOW PIPE AND PURGE LINE
ME101 N.T.S.



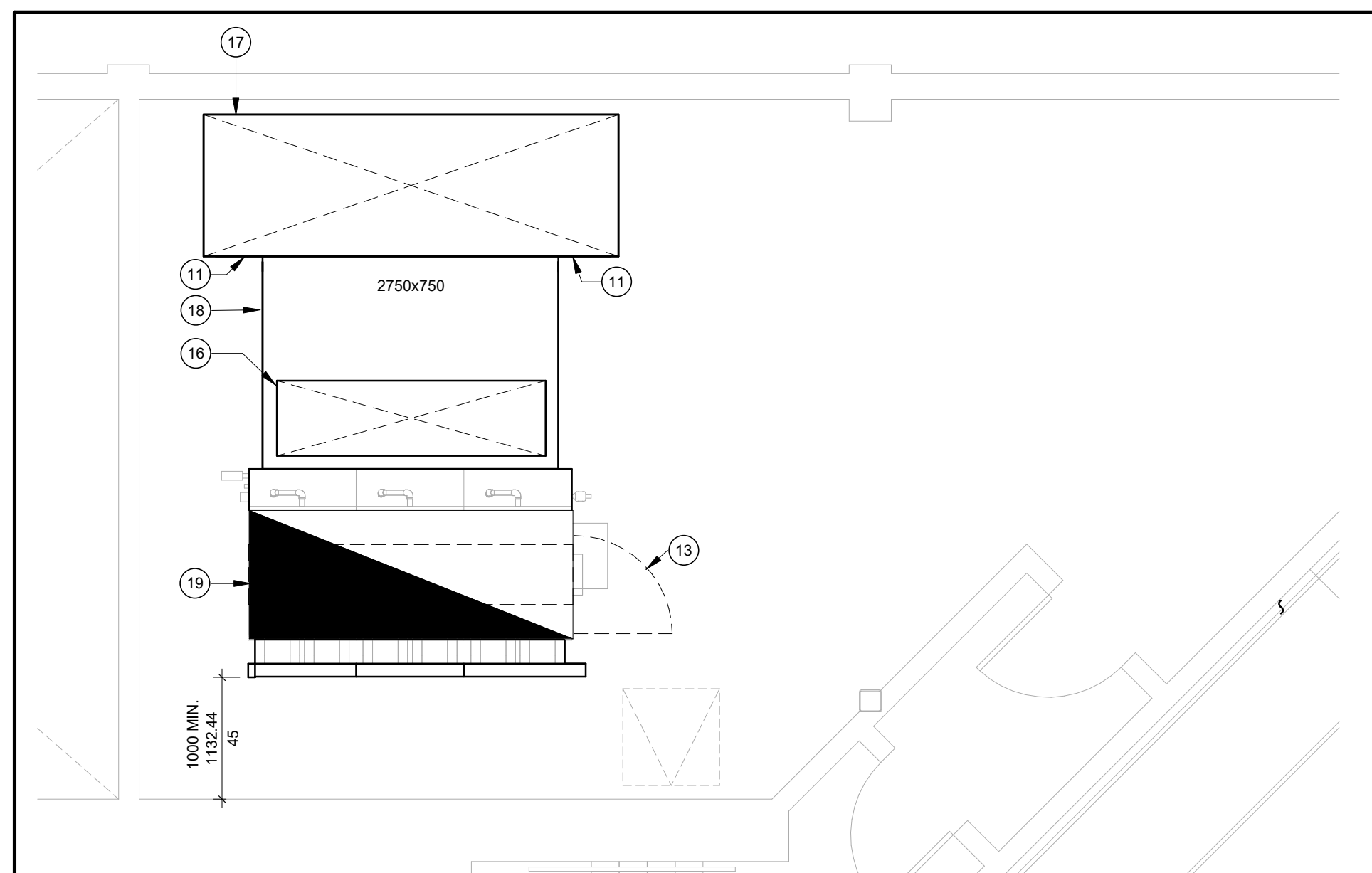
2 MECHANICAL ROOM - PIPING MODIFICATION PLAN
ME101 Scale: 1 : 50



5 EXISTING COOLING TOWER SUPPLY AND RETURN WATER CONNECTIONS
ME101 N.T.S.



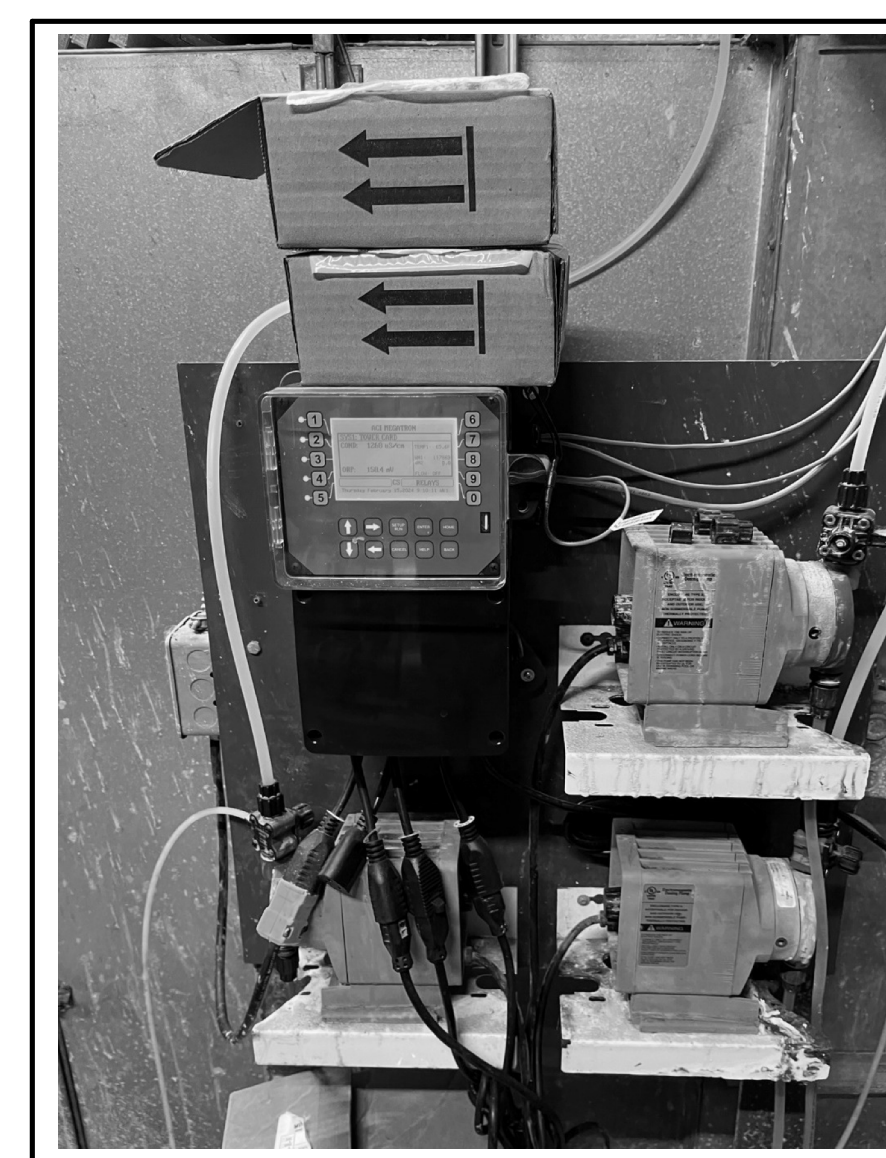
8 EXISTING COOLING TOWER DRAIN PIPING
ME101 N.T.S.



3 MECHANICAL ROOM - HVAC MODIFICATION PLAN
ME101 Scale: 1 : 50



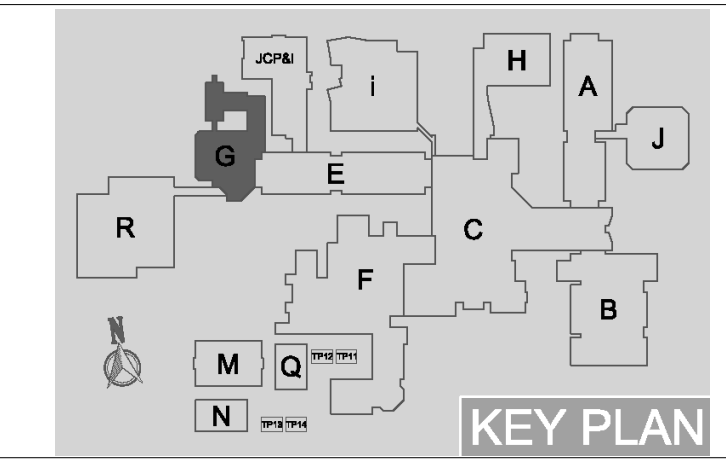
6 EXISTING COOLING TOWER SUPPLY & RETURN PIPING AND BYPASS
ME101 N.T.S.



9 EXISTING COOLING TOWER CHEMICAL FEED PUMPS AND CONTROLLER
ME101 N.T.S.

GENERAL DRAWING NOTES

- A DRAWINGS ARE GENERALLY DIAGRAMATIC. CONTRACTOR IS RESPONSIBLE FOR LAYING OUT MATERIAL IN CONJUNCTION WITH THE INTENT OF THESE DRAWINGS.
- B DRAWINGS ARE TO BE INTERPRETED IN CONJUNCTION WITH ALL OTHER DISCIPLINE DRAWINGS AND SPECIFICATIONS.
- C SYSTEMS CONNECT TO EXISTING SERVICES. ALLOW FOR ADDITIONAL FITTINGS AND OFFSETS AS REQUIRED IN ORDER TO CONNECT TO EXISTING DESIGNS TO AVOID INTERFERENCE WITH EXISTING SERVICES.
- D TEMPORARY MEASURES SHALL BE DONE IN ORDER TO MAINTAIN SERVICES TO ALL OCCUPIED PORTIONS OF THE BUILDING DURING CONSTRUCTION. COORDINATE WITH THE OWNER FOR ANY REQUIRED SHUT-DOWNS, WHICH SHALL BE AFTER-HOURS OR WEEKENDS. PROVIDE TEMPORARY MATERIALS TO ALLOW FOR SWITCH-OVERS OR SHUT-DOWNS. TEMPORARY SERVICES MATERIAL AND INSTALLATION SHALL MEET THE SPECIFICATIONS UNLESS SPECIFICALLY APPROVED BY THE CONSULTANT.
- E INCLUDE PASSIVATION OF COOLING TOWER AND DUCTWORK.
- F DUCT ELBOWS TO BE FULL RADIUS OR WITH TURNING VANES. REFER TO SPECIFICATIONS.
- G NEW CHEMICAL TREATMENT SYSTEM FOR COOLING TOWER INCLUDED IN THIS SCOPE OF SUPPLY. COORDINATE WITH MOHAWK COLLEGE OPERATIONS AND CHEMICAL SUPPLY VENDOR.
- H CONTRACTOR TO ASSESS CONDITION OF EXISTING DUCTWORK PRIOR TO CONNECTIONS/MODIFICATIONS FOR SUITABILITY OF RE-USE. ANY DAMAGES TO DUCTWORK TO BE REPORTED TO CONSULTANT/ARCHITECT.
- I COORDINATE LOCATION OF ACCESS DOORS IN GWB CEILINGS WITH OTHER TRADES. PROVIDE REFLECTED CEILING PLAN INDICATING LOCATIONS OF ALL ACCESS DOORS FOR APPROVAL PRIOR TO FINAL INSTALLATION.
- J CONTRACTOR IS TO REVIEW EXISTING EQUIPMENT CONNECTIONS AND LAYOUT BEFORE DEMOLITION. ANY EQUIPMENT TO BE RE-INSTALLED SHALL BE INSTALLED PER MANUFACTURERS WRITTEN INSTRUCTIONS AND APPLICABLE CODES.
- K FOR DUST CONTROL, CAP EXISTING DUCTS IN THE CONSTRUCTION AREA. CONNECTION TO EXISTING AIR DUCTS TO BE DONE AFTER COMPLETION OF ALL DUST PRODUCING TASKS.
- L RELOCATE OR REROUTE EXISTING MECHANICAL EQUIPMENT AS REQUIRED TO ACCOMMODATE THE SCOPE OF NEW WORK.
- M FIRE DAMPERS ARE REQUIRED TO BE INSTALLED ON NEW AND EXISTING DUCTS PASSING THROUGH RATED WALLS, CEILING AND FLOORS.
- N CONTRACTOR RESPONSIBLE FOR COMPLETE WORKING SYSTEM.



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DEMOLITION NOTES

- 1 REUSE SUPPLY DUCTWORK TO BE REMOVED COMPLETE WITH ALL ASSOCIATED ACCESSORIES.
- 2 EXISTING EXHAUST DUCTWORK TO BE REMOVED COMPLETE WITH ALL ASSOCIATED ACCESSORIES.
- 3 EXISTING COOLING TOWER TO BE REMOVED COMPLETE WITH ALL DRAIN AND CHEMICAL FEED PIPING. REMOVE EXISTING COOLING TOWER THROUGH ROOF OPENING.
- 4 REMOVE EXISTING CHEMICAL FEED SYSTEM. TURN PUMPS CONTROLS AND INSTRUMENTATION OVER TO OWNER.

DRAWING NOTES

- 1 PROVIDE 19mm PCW DROP TO NEW CHEMICAL EQUIPMENT
- 2 INSTALL NEW 25mm DCW LINE TO EXISTING 50MM DCW.
- 3 INSTALL NEW BACK FLOW PREVENTER IN 25mm DCW LINE. PIPE BACK FLOW PREVENTER DRAIN TO LOCAL HUB DRAIN
- 4 PIPE 25MM PCW LINE TO COOLING TOWER BASIN.
- 5 CONNECT NEW 150mm HPS SUPPLY AND RETURN FROM COOLING TOWER IN TO EXISTING 150mm HEADER.
- 6 INSTALL NEW 150mm THREE WAY CONTROL VALVE IN SUPPLY LINE TO COOLING TOWER. WIRE ACTUATOR TO BUILDING AUTOMATION SYSTEM AND COORDINATE WITH AINSWORTH.
- 7 INSTALL NEW 150MM BYPASS LINE.
- 8 INSTALL NEW 150mm HPS. CONNECT TO COOLING TOWER FLUID OUTLET.
- 9 INSTALL NEW 150mm HPS. CONNECT TO COOLING TOWER FLUID INLET.
- 10 CONNECT NEW 150mm HPS SUPPLY TO COOLING TOWER 100 MM HEADER (TOP) CONNECT NEW 150mm HPS RETURN LINE TO COOLING TOWER 10mm HEADER (BOTTOM).
- 11 SEAL EXISTING DUCT OPENING AS REQUIRED.
- 12 PIPE 75mm OVERFLOW AND 32mm DRAIN LINE TO LOCAL FUNNEL FLOOR DRAIN. PROVIDE ISOLATION VALVE ON DRAIN LINE.
- 13 COOLING TOWER FAN SWING OUT. ENSURE SPACE REQUIRED FOR SWING OUT IS UNOBSTRUCTED.
- 14 75mm OVER FLOW AND DRAIN LINE ON THIS SIDE PIPE TO FFD NOTE 12.
- 15 PROVIDE NEW CHEMICAL TREATMENT SYSTEM COMPLETE WITH CHEMICAL FEED PUMPS AND CONTROLLER. PIPE ALL PUMPS TO CHEMICAL RECIRCULATION LINE INJECTION PORTS. WIRE FLOW SWITCH, P01, BLEED SOLENOID VALVE AND SENSORS TO CHEMICAL TREATMENT CONTROL PANEL.
- 16 REMOVABLE ACCESS HATCH IN TOP OF DUCTWORK.
- 17 REUSE EXISTING VERTICAL SUPPLY DUCT.
- 18 HORIZONTAL DUCTWORK 2750x750 (108"x30").
- 19 EXHAUST DUCTWORK 2950x1175 (118"x47").

ELECTRICAL DRAWING NOTES

- 1 PROVIDE POWER TO THE PUMP. PROVIDE 1X15A-3P BREAKER AND 3#10AWG+1#12GND IN 27MM CONDUIT CIRCUITED TO PANEL PPS. PROVIDE LOCAL 15A-3P (MINIMUM) DISCONNECT.
- 2 PROVIDE POWER TO THE COOLING TOWER. PROVIDE 1X30kVA STEP DOWN 3-PHASE TRANSFORMER FROM 600V-3P TO 480V-3P FED FROM PANEL PPS WITH A 40A-3P BREAKER FOR PRIMARY PROTECTION, 3#8 AWG +1#10 GND IN 27MM CONDUIT AND THE SECONDARY IS 3#8 AWG +1#8 GND IN 35MM CONDUIT. PROVIDE A 40A-3P LOCAL DISCONNECT FOR THE COOLING TOWER.

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MOHAWK COLLEGE

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PROJECT
MOHAWK COLLEGE G-WING COOLING TOWER REPLACEMENT

TITLE
G WING - MECH. ROOM - HVAC AND PIPING DEMO. & MOD. PLANS AND ELEC. NOTES

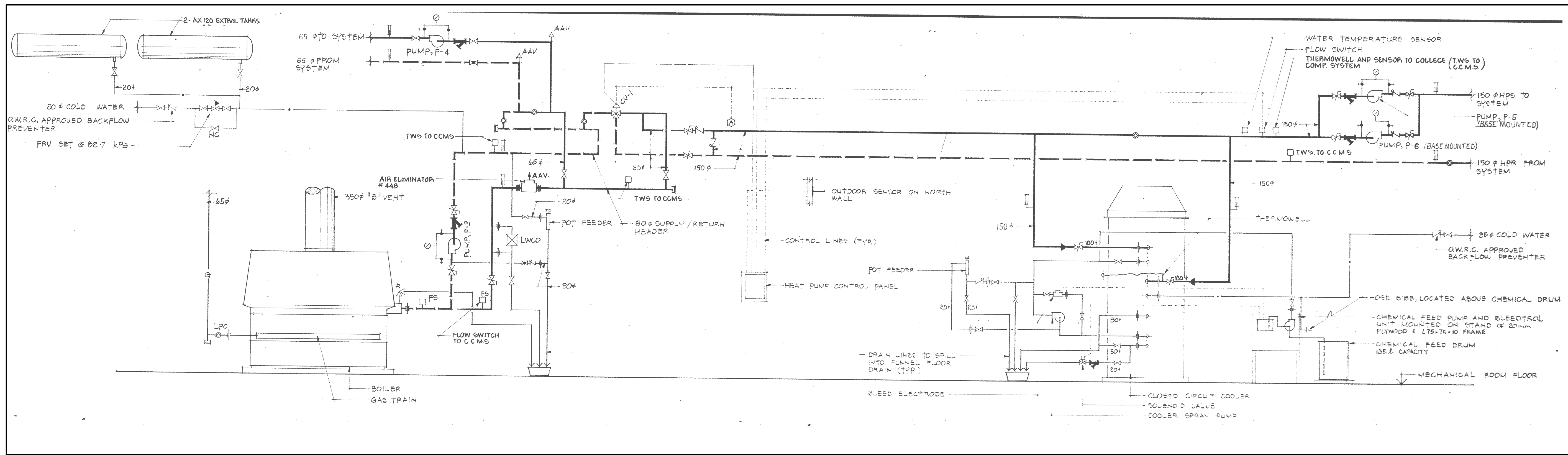
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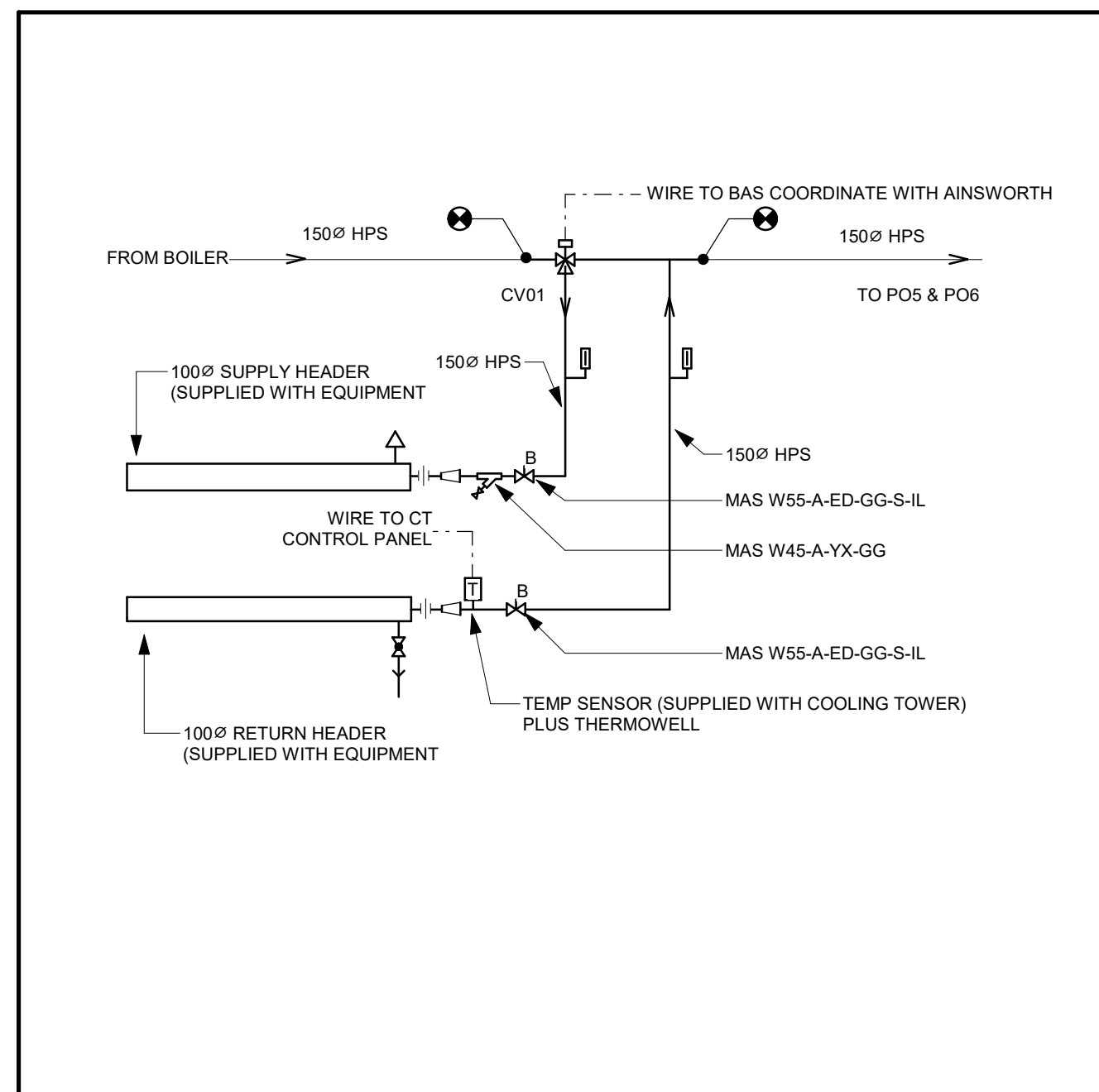
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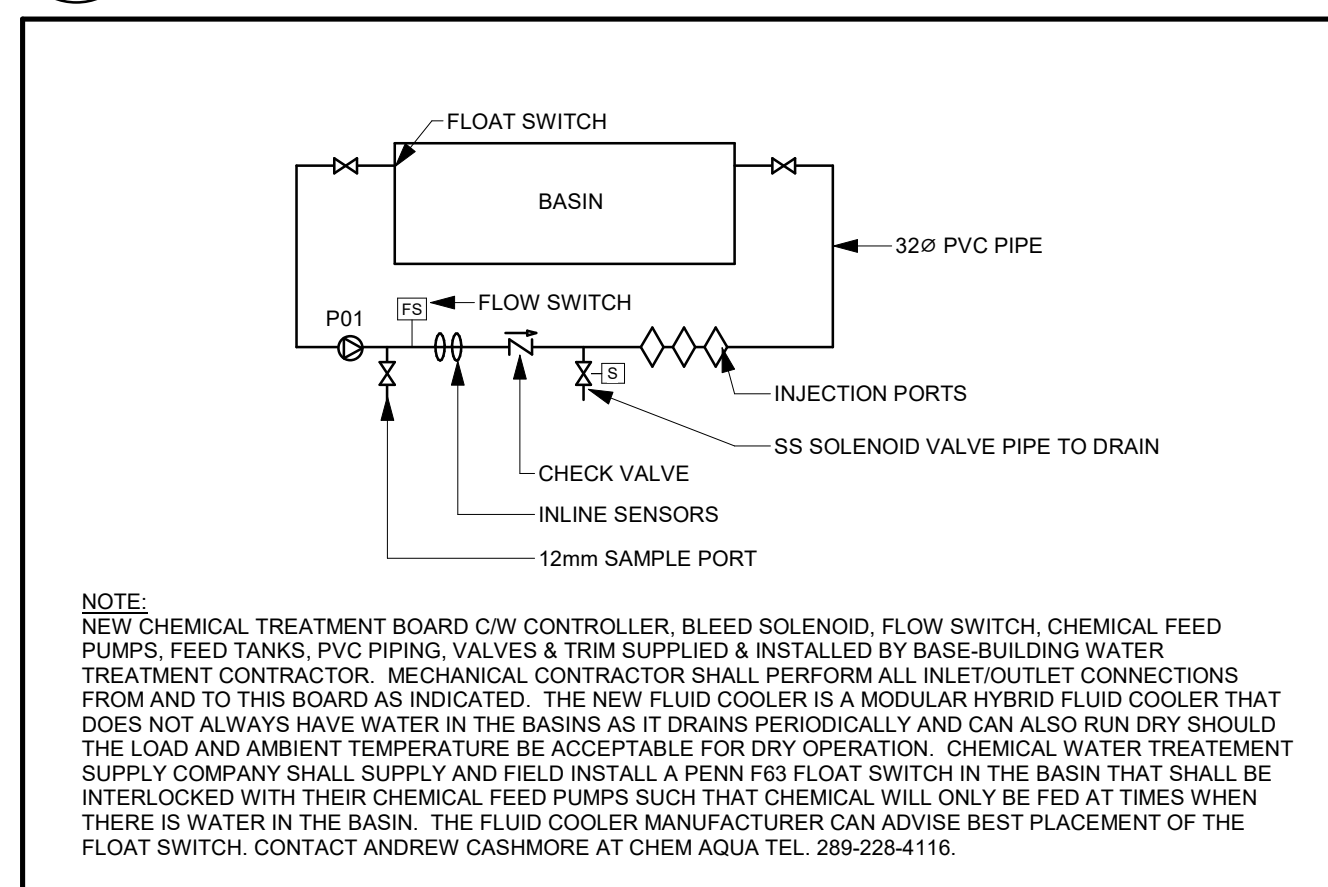
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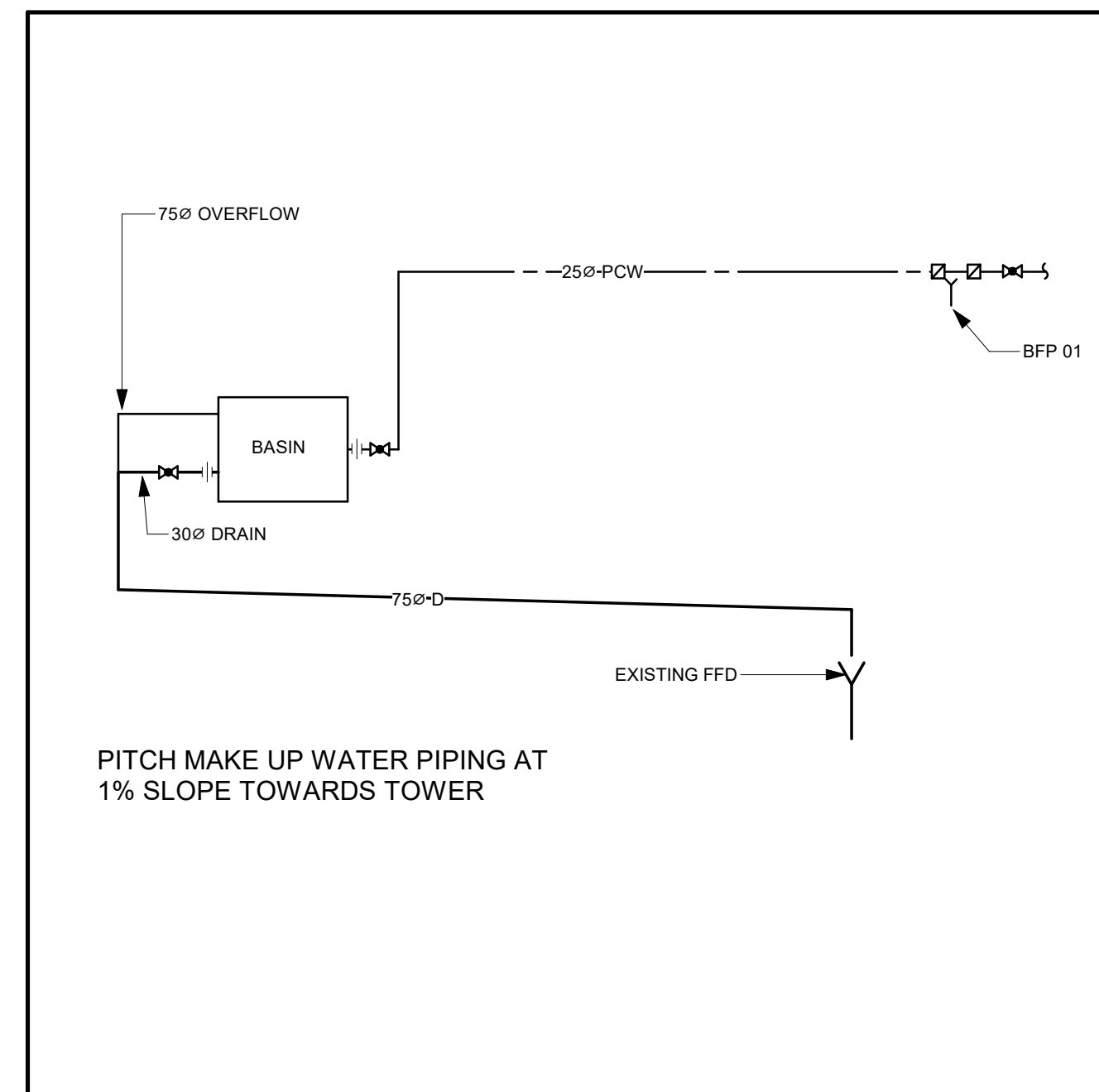
1 EXISTING SYSTEM FLOW PIPING SCHEMATIC
M700 N.T.S.



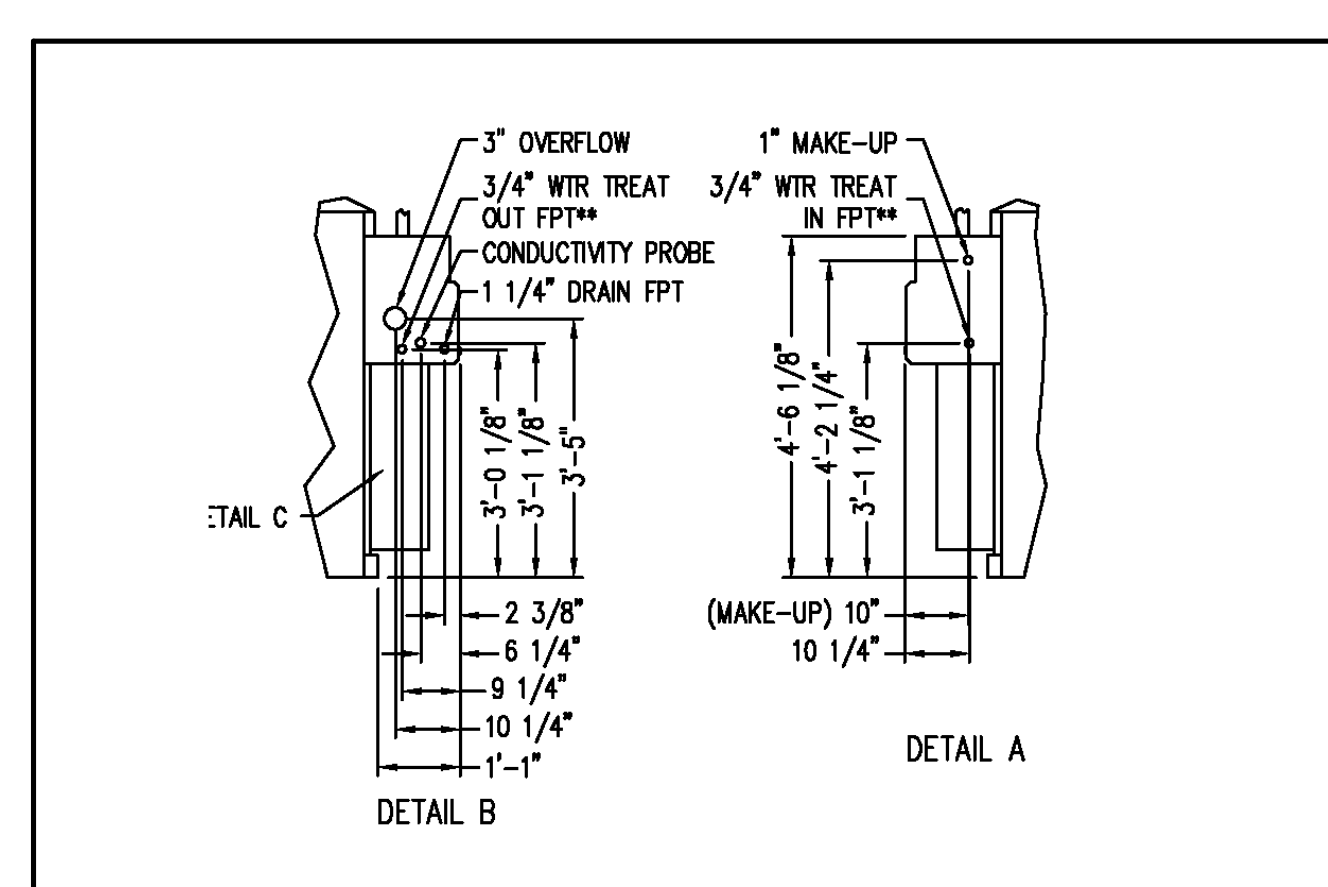
2 PROCESS WATER CONNECTIONS
M700 N.T.S.



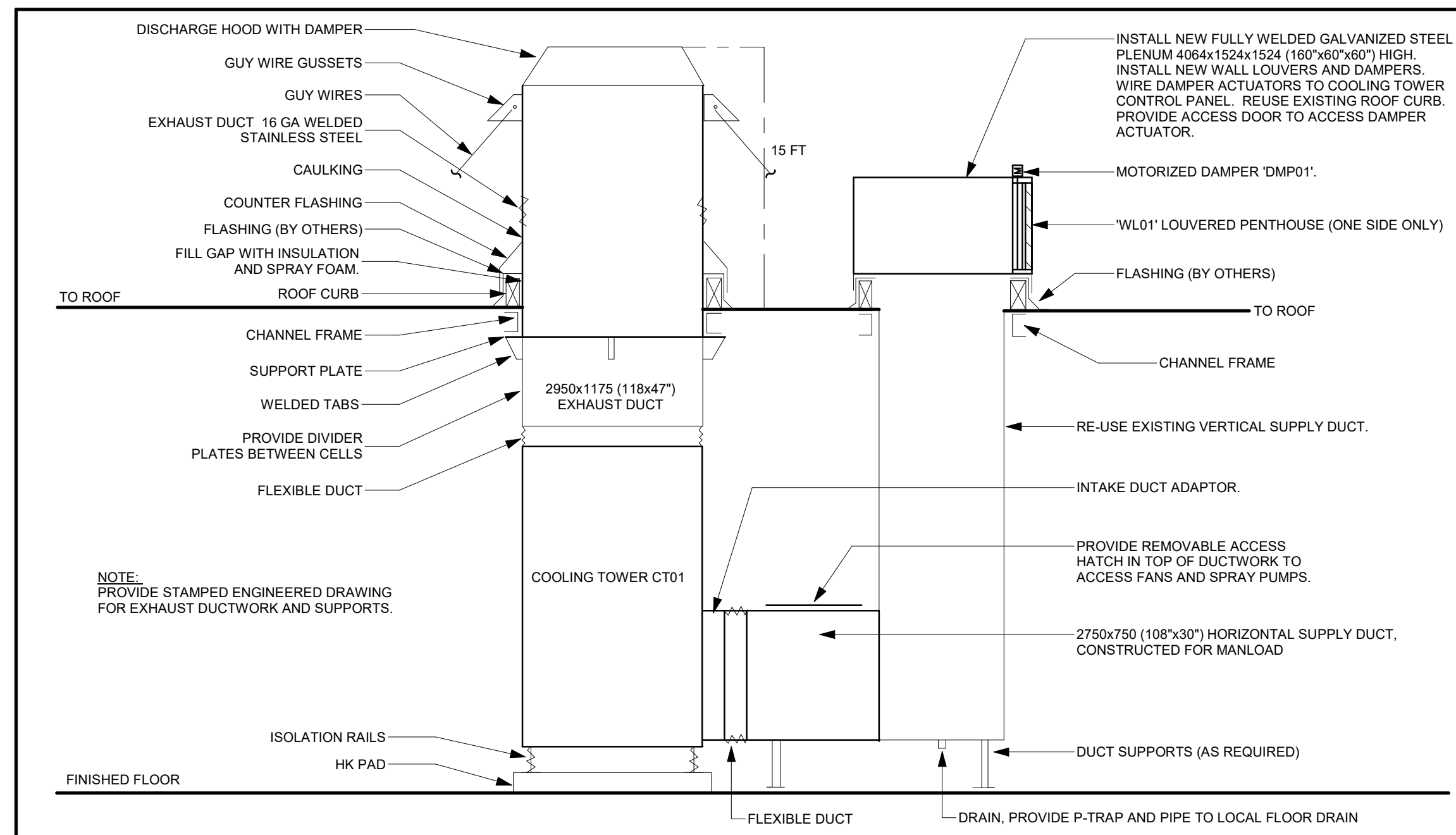
5 CHEMICAL TREATMENT CONNECTIONS
M700 N.T.S.



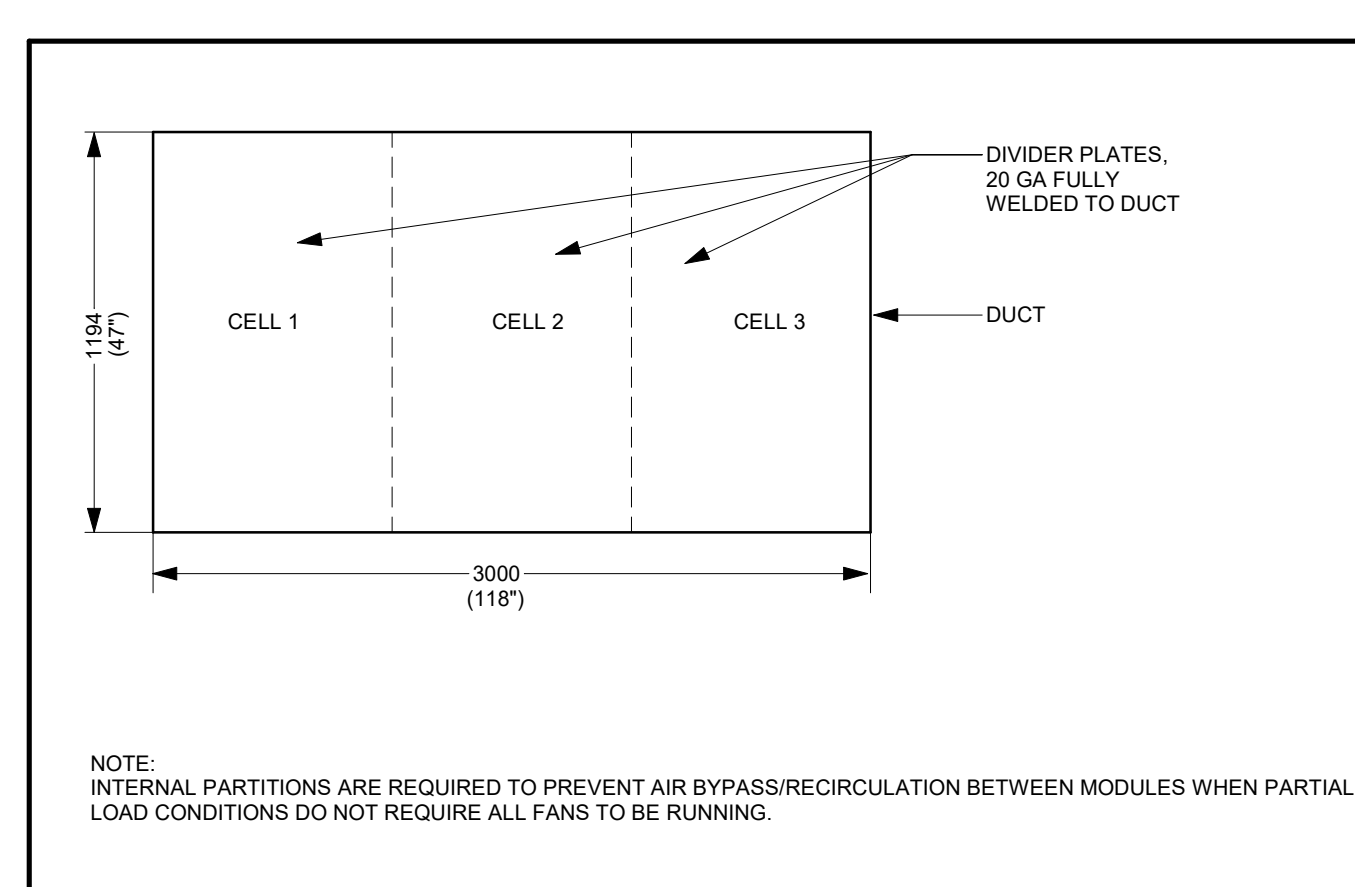
3 MAKE-UP WATER AND DRAIN CONNECTIONS
M700 N.T.S.



6 COOLING TOWER BASIN
M700 N.T.S.



4 COOLING TOWER DUCTWORK
M700 N.T.S.



7 EXHAUST DUCT PLAN VIEW
M700 N.T.S.

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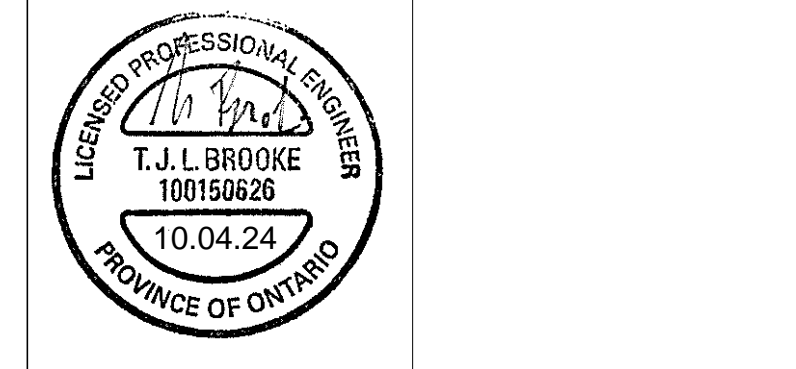
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TITLE
EXISTING HEATING FLOW PIPING SCHEMATIC

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