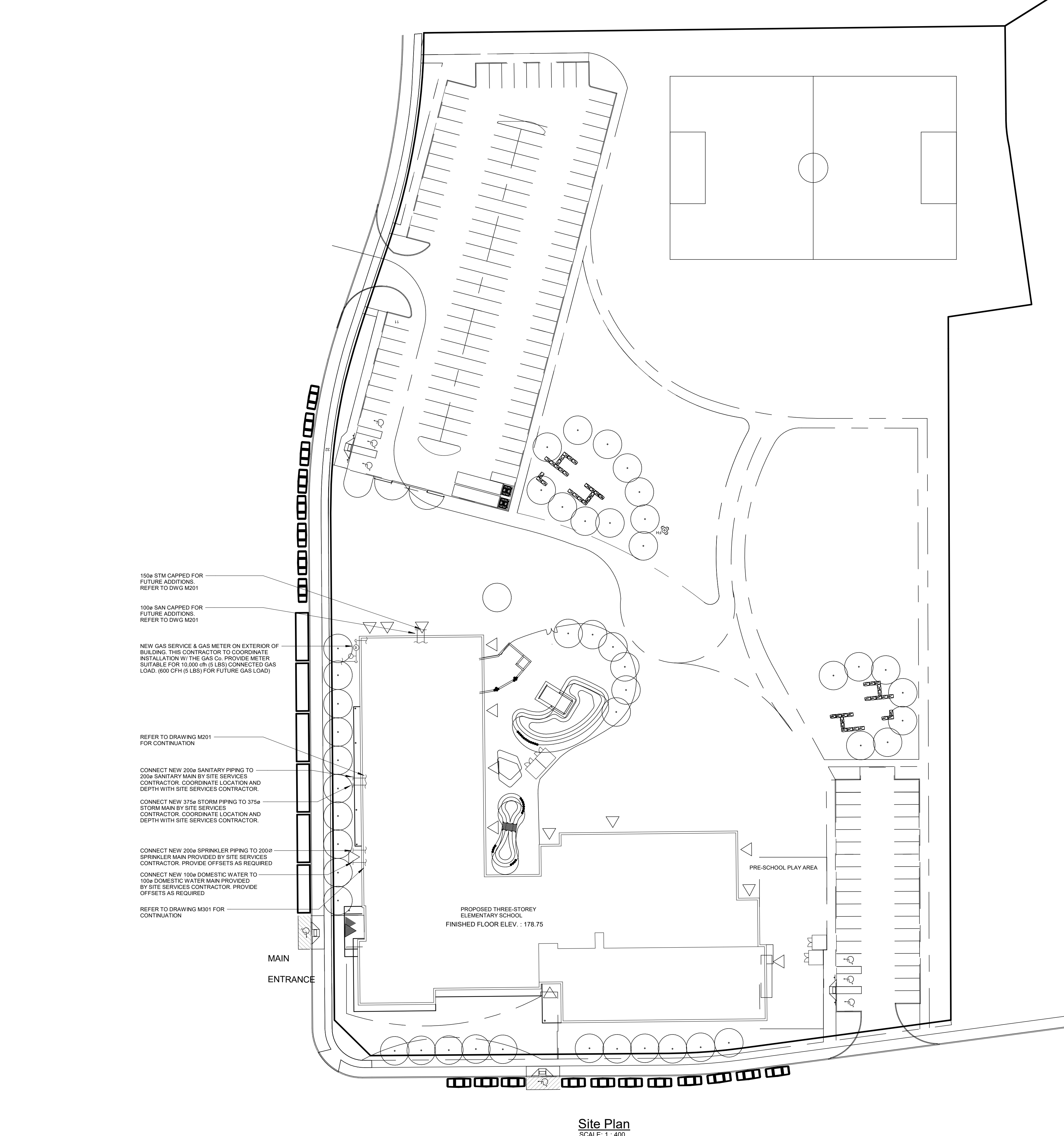




Site Plan
SCALE: 1" = 40'

GRILLE SCHEDULE

(CAPACITY INDICATED ON SCHEDULE. REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.)					
GENERAL DIFFUSER/GRILLE NOTES: 1. ACCEPTABLE MANUFACTURERS: BY PRICE, MAJOR, TITUS, KRUEGER, CARNES, METALARE, TUTTLE & BAILEY 2. GRILLE COLOURS ARE SELECTED BY ARCHITECT FROM STANDARD COLOUR CHART. UNLESS OTHERWISE NOTED. 3. PAINT INTERIOR OF DUCTWORK BEHIND GRILLE MATTE BLACK (WHERE VISIBLE THROUGH GRILLE).					
Mark	Type	Capacity (m³/min)	Material	Notes	Description
D1	SQUARE CEILING DIFFUSER	1400A	4 CONE STEEL, SLIDING ADJUSTMENT NOT ACCEPTABLE		
D2	ROUND DIFFUSER (EXPOSED)	KRUEGER R42	4 CONE STEEL, C/W SAFETY CHAINS, SLIDING ADJUSTMENT NOT ACCEPTABLE		
D3	LINEAR BAR	KRUEGER 1900	ALUMINUM LINEAR SUPPLY, 25mm SLOTS, SUITABLE FOR DUCT MOUNTING		
D4	ROUND CEILING DIFFUSER	KRUEGER R42	4 CONE STEEL, C/W SAFETY CHAINS, SLIDING ADJUSTMENT NOT ACCEPTABLE		
D5	DIRECTIONAL CEILING DIFFUSER (3 WAY)	KRUEGER 5HPC	STEEL, 3WAY AS NOTED; SUITABLE FOR 6" BARE AND DRYWALL INSTALLATIONS		
D6-1	DOOR GRILLE	KRUEGER 600A	C/W 600mm HIGH INERTIAL BASE, SUITABLE FOR 6" BARE AND DRYWALL INSTALLATIONS		
R1	CEILING RETURN GRILLE (NON-DUCTED)	KRUEGER 585	C/W SCREWED FASTENING		
R2	CEILING RETURN GRILLE (DUCTED)	KRUEGER 585	C/W SCREWED FASTENING		
R3	SECEWALL RETURN GRILLE	KRUEGER 585	C/W SCREWED FASTENING		
R4	SECEWALL SUPPLY	KRUEGER 585	C/W SCREWED FASTENING		
S2	LINEAR BAR	KRUEGER 1850	C/W SCREWED FASTENING		

PACKAGED HVAC UNIT SCHEDULE

(CAPACITY INDICATED ON SCHEDULE. REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.)									
GENERAL HVAC UNIT NOTES: 1. ACCEPTABLE MANUFACTURERS: CARRIER, TRANE, LENNOX. 2. UNITS HAVE 2 STAGE NATURAL GAS PROPANE HEAT, 2 STAGE DX COOLING PLANT ECONOMIZER (1 STAGE ON SMALLER UNITS), BELT DRIVE FANS. 3. PROVIDE STANDARD INSULATED BY HIGH ROOF CURB, ADDITIONAL INSULATION (R-19) ON EXTERIOR OF CURB, STAINLESS STEEL GAS HEAT EXCHANGER, CONDENSER COIL, GUARD, STAINLESS STEEL FLUE GAS EXTENSION, POWER EXHAUST ON UNITS 1-70TONS AND LARGER, ECONOMIZER, AND ALL HOODS & BELT SCREENS, AND 2 SETS MERV 13 DISPOSABLE FILTERS. 4. CONTROLS: SYSTEM CONTROLS BY BAS CONTRACTOR, PROVIDE INTERNAL CONTROLLER MATCHED TO BAS MANUFACTURER. 5. CONTROLS: 7-DAY PROGRAMMABLE THERMOSTAT AND LOCKING COVER.									
Mark	Type	Capacity (Tons)	Flow (CFM)	Heating Capacity (MBH)	ESP (in. wg)	Service Gas	Heating Capacity (MBH)	Minimum Position of Outdoor Air (%)	Electrical Data
HVAC-1	PACKAGED ROOFTOP HVAC UNIT	17.5	7,500	360,000	1.40	Gas	20	575/300	MCA 40
HVAC-2	PACKAGED ROOFTOP HVAC UNIT	6.0	2,400	130,000	1.40	Stage	Gas	30	575/300 11.0 15

PUMP SCHEDULE

(CAPACITY INDICATED ON SCHEDULE. REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.)									
Mark	Type	Flow (GPM)	Head (ft)	Horsepower	Voltage	Speed (rpm)	Acceptable Manufacturer	Description	
BP-1	LINEAR	194	20	2	575/300	1800	BAG e-80 3x3x3C	BAG TO WIRE CORD CORD, THREE ROLLER	
BP-2	LINEAR	194	20	2	575/300	1800	BAG e-80 3x3x3C	BAG TO WIRE CORD CORD, THREE ROLLER	
C-1	BASE MOUNTED END SUCTION	420	85	15	575/300	1800	BAG e-150 3B-80	GPM 150HM HERTAL BASE, SUCTION STRAINER DIFFUSER MOTOR RATED FOR 150	
C-2	BASE MOUNTED END SUCTION	420	85	15	575/300	1800	BAG e-150 3B-80	GPM 150HM HERTAL BASE, SUCTION STRAINER DIFFUSER MOTOR RATED FOR 150	
C-3	MAIN HEATING CIRCULATION PUMP	420	20	5	575/300	1800	BAG e-150 3B-80	GPM 150HM HERTAL BASE, SUCTION STRAINER DIFFUSER MOTOR RATED FOR 150	
C-4	HEATING CIRCULATION PUMP	400	50	10	575/300	1800	BAG e-805C 4448-58	SUITABLE FOR GLYCOL	
C-5	HEATING CIRCULATION PUMP	400	50	10	575/300	1800	BAG e-805C 4448-58	SUITABLE FOR GLYCOL	
RP-1	DOMESTIC INLINE RECIRC PUMP	5	10	FHP	120/160	1800	BELL & GOSSETT EGOORIC AL 30-35	SUITABLE FOR PORTABLE WATER USE	
RP-2	DOMESTIC INLINE RECIRC PUMP	3	3	FHP	120/160	1800	BELL & GOSSETT EGOORIC AL 30-35	SUITABLE FOR PORTABLE WATER USE	

COOLING TOWER SCHEDULE

(CAPACITY INDICATED ON SCHEDULE. REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.)									
Item	Type	tons	MBH	Working Fluid	Air Flow (CFM)	Flow Rate (GPM)	PD (PSI)	EVT (°F)	LWT (°F)
CT-1	CLOSED CIRCUIT COOLING TOWER	190	2275	WATER	53,340	455.00	3.5	100	90

BOILER SCHEDULE

(CAPACITY INDICATED ON SCHEDULE. REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.)							
Mark	Type	Input (Btu/h)	Output (Btu/h)	Flue Vent (mm)	Electrical	Acceptable Manufacturer	Remarks
B-1	CONDENSING BOILER	2,000,000	1940000	200	120/160	VEISSMANN VITOCROSSAL 200 (02-2000)	C/W STAINLESS STEEL HEAT EXCHANGER & CONDENSATE NEUTRALIZING CARTRIDGE, COMBUSTION AIR KIT, LOW WATER CUT-OFF, AND PRESSURE RELIEF VALVE
B-2	CONDENSING BOILER	2,000,000	1940000	200	120/160	VEISSMANN VITOCROSSAL 200 (02-2000)	C/W STAINLESS STEEL HEAT EXCHANGER & CONDENSATE NEUTRALIZING CARTRIDGE, COMBUSTION AIR KIT, LOW WATER CUT-OFF, AND PRESSURE RELIEF VALVE

WATER HEATER SCHEDULE

(CAPACITY INDICATED ON SCHEDULE. REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.)							
Mark	Type	Heating Capacity (MBH)	Medium	Volume	Hot Water Recovery	Acceptable Manufacturer	Description
WH-1	DOMESTIC WATER HEATER	74.8	HEAT PUMP	120.00	90 gph at 100°F rise	A.O. Smith CAHR-120 AMP	HIGH EFFICIENCY, HEAT PUMP WATER HEATER C/W 12kW ELECTRIC BACK-UP BOOST. PROVIDE BACNET INTEGRATION, 208/160 MCA 67
WH-2	DOMESTIC WATER HEATER	74.8	HEAT PUMP	120.00	90 gph at 100°F rise	A.O. Smith CAHR-120 AMP	HIGH EFFICIENCY, HEAT PUMP WATER HEATER C/W 12kW ELECTRIC BACK-UP BOOST. PROVIDE BACNET INTEGRATION, 208/160 MCA 67
WH-3	DOMESTIC WATER HEATER	102.5	ELECTRIC	120.00	123 gph at 100°F rise	A.O. Smith Gold-DRE-120-30	HIGH EFFICIENCY, 575/300 AMP

DUCT HEATER SCHEDULE

(CAPACITY INDICATED ON SCHEDULE. REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.)									
Mark	Type	Size		Capacity		Acceptable Manufacturer	Description		
		Width	Height	Heating Capacity	Electrical				
DH-1	ELECTRIC DUCT HEATER	360	300	150	18	575/300	C/W ACCESS PANEL, AUTOMATIC RESET THERMAL CUT-OFF, AIR FLOW SENSOR, MANUAL RESET THERMAL CUT-OFF, 24V SCR CONTROL, DUCT TSTAT, INTERLOCK WITH HP 6.1.		
DH-2	ELECTRIC DUCT HEATER	200	200	150	1	575/300	C/W ACCESS PANEL, AUTOMATIC RESET THERMAL CUT-OFF, AIR FLOW SENSOR, MANUAL RESET THERMAL CUT-OFF, 24V SCR CONTROL, WALL MOUNTED THERMOSTAT		

AHU SCHEDULE

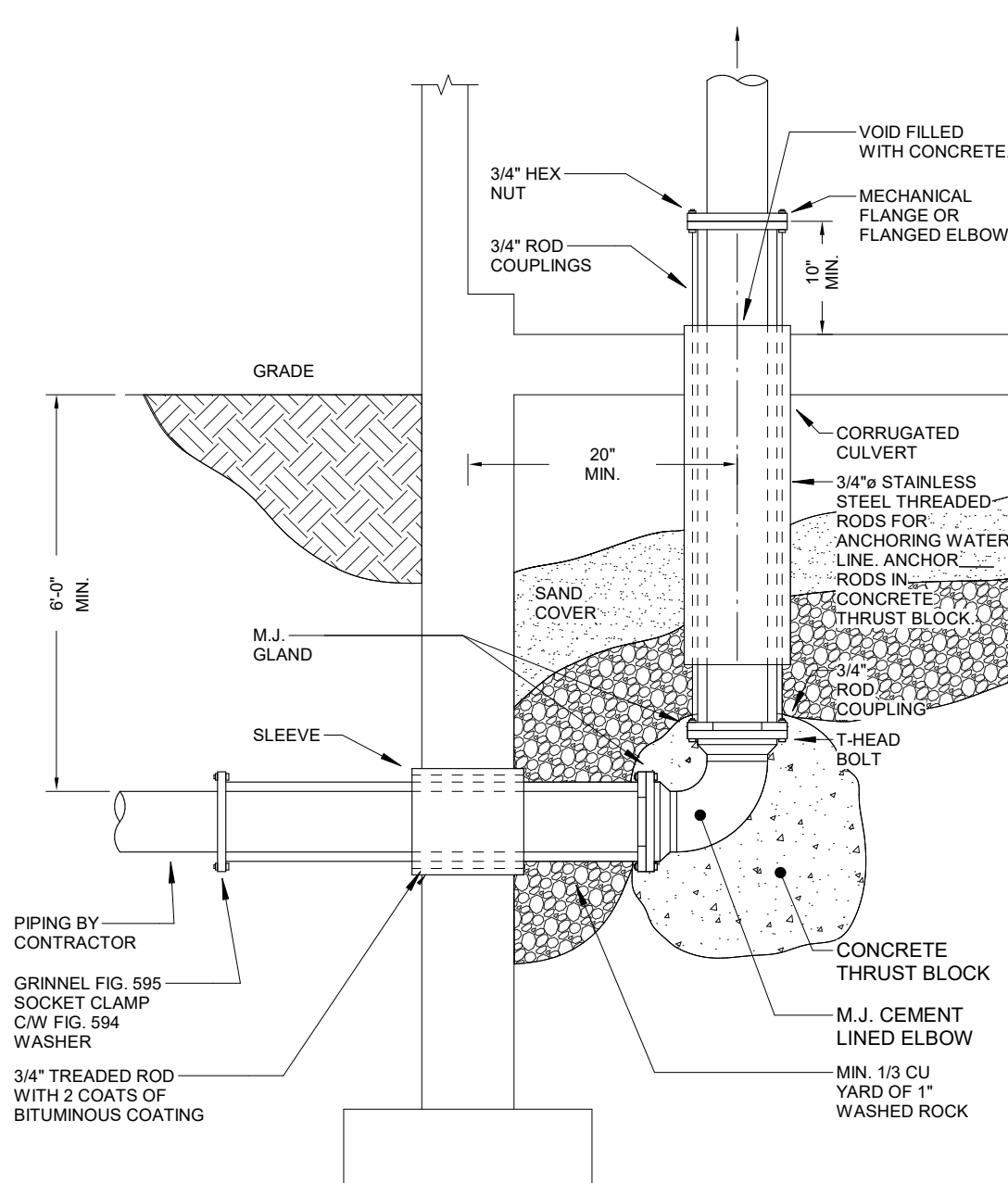
(CAPACITY INDICATED ON SCHEDULE. REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.)									
Mark	Type	Service Air Flow (cfm)	Design Air Flow (cfm)	Future Air Flow (cfm)	Size (in)	Divs	Variable Frequency Drive	Electrical	Remarks
MUA-1	OUTDOOR BUILT-UP ROOF MUA - HEAT RECOVERY	3200	CFM	3200	24	2	VAR	575/300	C/W 100mm HIGH INERTIAL BASE, SUCTION STRAINER/ DIFFUSER, MOTOR RATED FOR VFD
MUA-2	OUTDOOR BUILT-UP ROOF MUA - HEAT RECOVERY	3200	CFM	3200	24	2	VAR	575/300	C/W 100mm HIGH INERTIAL BASE, SUCTION STRAINER/ DIFFUSER, MOTOR RATED FOR VFD
MUA-3	OUTDOOR BUILT-UP ROOF MUA - HEAT RECOVERY	3200	CFM	3200	24	2	VAR	575/300	C/W 100mm HIGH INERTIAL BASE, SUCTION STRAINER/ DIFFUSER, MOTOR RATED FOR VFD
MUA-4	OUTDOOR BUILT-UP ROOF MUA - HEAT RECOVERY	3200	CFM	3200	24	2	VAR	575/300	C/W 100mm HIGH INERTIAL BASE, SUCTION STRAINER/ DIFFUSER, MOTOR RATED FOR VFD
MUA-5	OUTDOOR BUILT-UP ROOF MUA - HEAT RECOVERY	3200	CFM	3200	24	2	VAR	575/300	C/W 100mm HIGH INERTIAL BASE, SUCTION STRAINER/ DIFFUSER, MOTOR RATED FOR VFD

GENERAL NOTES

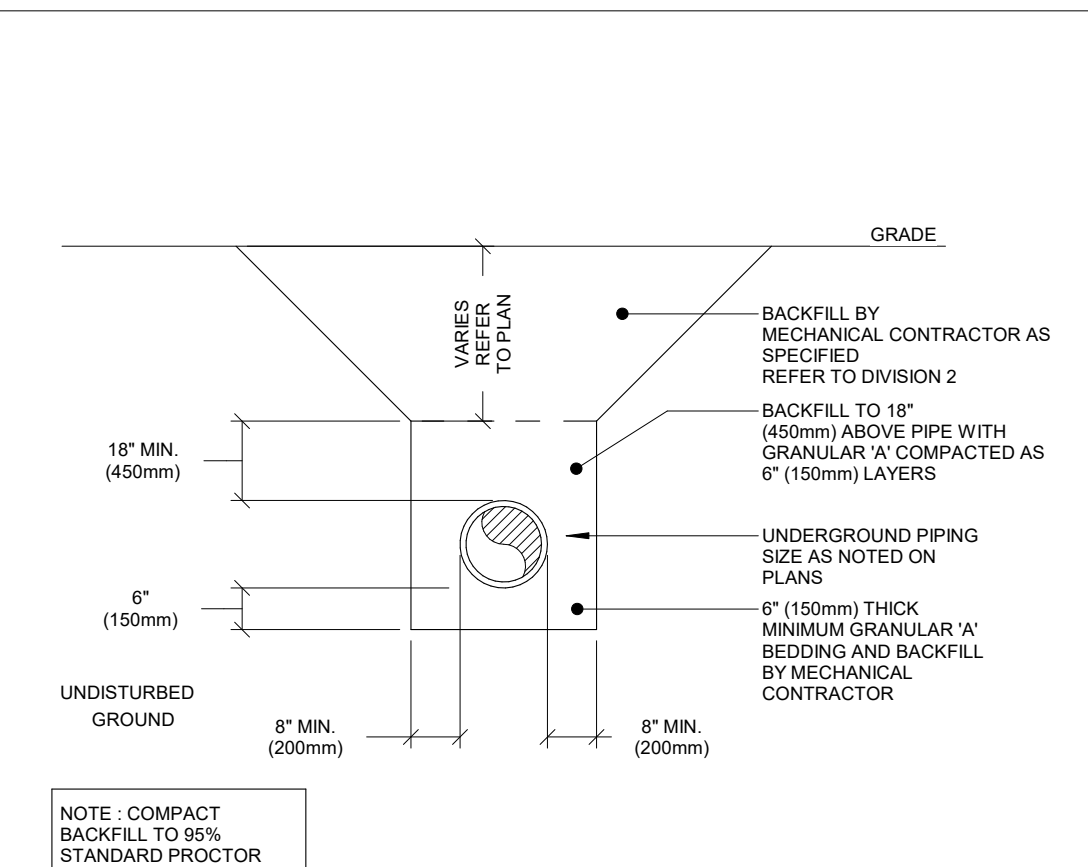
- ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PREPARED SPECIFICATION
- ALL PIPING, DUCTWORK, AND EQUIPMENT IS TO BE RESTRAINED TO MEET SEISMIC CODE REQUIREMENTS. SUPPLY AND INSTALL ALL SEISMIC RESTRAINT MATERIALS TO MANUFACTURERS WRITTEN INSTRUCTIONS. REFER TO SPECIFICATION.
- UPON COMPLETION OF THE PROJECT OR UPON COMPLETION OF EACH INDIVIDUAL PHASE OF THE PROJECT THE CONTRACTORS SHALL PROVIDE THE FOLLOWING CERTIFICATES BEFORE COMMENCEMENT OF LETTERS ARE ISSUED BY THE CONSULTANT:
 - POTABLE WATER TEST (SEE SPEC 22.11.6 PART 3)
 - SACPLIOW TEST CERTIFICATE FOR ALL TESTABLE DEVICES
 - COPY OF MANDATORY TSSAC/CAH/4 GAS PRESSURE TEST TAG
 - NFPA-15 SPRINKLER CONTRACTORS MATERIAL & TEST CERTIFICATE
 - NFPA-15 FIRE PROTECTION BYPASS FLOW TEST
 - FIRE PROTECTION ENGINEERS INSPECTION COMPLIANCE LETTER
 - NFPA-96 KITCHEN HOOD FIRE SUPPRESSION SYSTEM TEST
 - FIRE PROTECTION ENGINEERS INSPECTION COMPLIANCE LETTER
 - TSSA CERTIFICATE OF AUTHORIZATION FOR SPLIT REFRIGERATION SYSTEMS (EXCEEDING 5 TONS)
 - TSSA REPORT FOR NEW BOILER/PRESSURE VESSEL INSTALLATION
- ALL CERTIFICATES ARE TO BE SUBMITTED TOGETHER IN A SINGLE PACKAGE.

PIPE DIA.	NO. OF 3/4" RODS REQD
4"	2
6"	2
8"	4
10"	4
12"	4
14"	4
16"	6

NOTE:
1. ALL 3/4" TREATED RODS TO BE GREASED.
2. ALL 3/4" ROD HEX NUTS, BOLTS AND ROD COUPLINGS TO BE COVERED WITH BUTYRUSK PART



UNDERGROUND CONNECTIONS TO WATERMAIN



PIPE BEDDING

FAN SCHEDULE

(CAPACITY INDICATED ON SCHEDULE. REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.)									
GENERAL FAN NOTES: 1. ACCEPTABLE MANUFACTURERS: GREENHECK, PENN-BARRY, COOK, ACME, TWIN CITY, JENCO, BUFFALO, (CEILING FANS: BROWN, GREENHECK, ZOMEX)									
Mark	Type	Service	Airflow rate (CFM)	ESP (in. wg)	TP	Motor Voltage	Acceptable Manufacturer	Remarks	
EP-1	CEILING MOUNTED EXHAUST	LOCAL EXHAUST	100	0.125	FHP	120/160	PENN BARRY 21H	C/W VIBRATION ISOLATION HANGERS, SPEED CONTROLLER, ALUMINUM GRILLE. FOR NUMBER & LOCATION OF FANS REFER TO PLAN.	
EP-2	RANGEHOOD DUCTED EXHAUST	RANGE EXHAUST	300	0.250	FHP	120/160	BROWN BGF130S8	C/W TWO (2) FILTERS FOR NUMBER & LOCATION OF FANS REFER TO PLAN.	
EP-3	LINE DUCT MTD. DRYER EXHAUST	DRYER BOOSTER	100	0.200	FHP	120/160	REVERCOMATIC TL2000	C/W DRYER AMP SENSOR FAN CONTROL, (MODEL: DAS200) SENSOR INSTALLED BY ELECTRICAL DIVISION	
EP-4	LINE DUCT MOUNTED EXHAUST	UNIVERSAL WASHROOM EXHAUST	300	0.625	FHP	120/160	PENN BARRY 210S	C/W VIBRATION ISOLATION HANGERS, SPEED CONTROLLER, & TDA INLINE KIT	
EP-5	LINE DUCT MOUNTED EXHAUST	DAYCARE WASHROOM EXHAUST	1200	0.500	FHP	120/160	PENN BARRY 212H	C/W VIBRATION ISOLATION HANGERS, SPEED CONTROLLER, DVR BY BAS CONTRACTOR	
EP-6	ROOF MOUNTED EXHAUST	DAYCARE WASHROOM EXHAUST	1200	0.750	12HP	208/300	PENN BARRY FX1621	C/W 600mm (24") HIGH VENTED ROOF CURB, SUITABLE FOR NFPA 96 KITCHEN EXHAUST ULTRIX ULTR2, UL3-SAS BACKDRAFT DAMPER, GREASE CUP, INTERLOCK OPERATION WITH EXHAUST HOOD.	
EP-7	CEILING MOUNTED EXHAUST	ELECTRICAL ROOF EXHAUST	700	0.250	FHP	120/160	PENN BARRY 212S	C/W VIBRATION ISOLATION HANGERS, ALUMINUM GRILLE, SPEED CONTROLLER AND REVERSE ACTING THERMOSTAT BY BAS CONTRACTOR.	
EP-8	ROOF MOUNTED EXHAUST	MECHANICAL ROOF EXHAUST	1200	0.375	12HP	208/160	PENN BARRY DX168	C/W 600mm (24") HIGH ROOF CURB, BACKDRAFT DAMPER, SPEED CONTROLLER, AND REVERSE ACTING THERMOSTAT BY BAS CONTRACTOR.	
EP-9	ROOF MOUNTED EXHAUST	ENTRANCE ROOF EXHAUST	400	0.250	FHP	120/160	PENN BARRY DX100	C/W 600mm (24") HIGH ROOF CURB, SPEED CONTROLLER, & BACKDRAFT DAMPER, REVERSE ACTING THERMOSTAT BY BAS CONTRACTOR.	
EP-10	ROOF MOUNTED EXHAUST	SECOND FLOOR ROOF EXHAUST	500	0.375	FHP	120/160	PENN BARRY DX11X	C/W 600mm (24") HIGH ROOF CURB, SPEED CONTROLLER, & BACKDRAFT DAMPER, DVR BY BAS CONTRACTOR.	
EP-11	RANGEHOOD DUCTED EXHAUST	RANGE EXHAUST	300	0.250	FHP	120/160	BROWN BGF130S8	C/W TWO (2) FILTERS FOR NUMBER & LOCATION OF FANS REFER TO PLAN. C/W S.S. SHROUD EXTENSION UP TO CEILING FINISH TO MATCH HOOD MATERIAL FINISH.	
EP-12	CEILING MOUNTED EXHAUST	ELECTRICAL ROOF EXHAUST	300	0.250	FHP	120/160	PENN BARRY 2BH	C/W VIBRATION ISOLATION HANGERS, ALUMINUM GRILLE, SPEED CONTROLLER, AND REVERSE ACTING THERMOSTAT BY BAS CONTRACTOR.	
EP-13	ROOF MOUNTED EXHAUST	ROOF MOUNTED EXHAUST	3700	0.625	3/4HP	208/300	PENN BARRY DX168	C/W 600mm (24") HIGH ROOF CURB, SPEED CONTROLLER, & BACKDRAFT DAMPER, DVR BY BAS CONTRACTOR.	
EP-14	ROOF MOUNTED EXHAUST	ELEVATOR MACHINE ROOM EXHAUST	400	0.375	FHP	120/160	PENN BARRY DX100	C/W 600mm (24") HIGH ROOF CURB, SPEED CONTROLLER, BACKDRAFT DAMPER AND REVERSE ACTING THERMOSTAT, DVR BY BAS CONTRACTOR, REVERSE ACTING THERMOSTAT BY ELECTRICAL CONTRACTOR.	
RF-1	LINE RETURN FAN	MUA RETURN FAN	1600	1.000	3/4HP		PENN BARRY SX1380C	C/W BELT DRIVE, VIBRATION ISOLATION HANGERS, BELT & OUTLET DUCT COLLARS/LANGES, SAFETY SERVICE SWITCH, BACKDRAFT DAMPER, SIDE MOTOR MOUNTING OPTION	
SF-1	SECEWALL EXHAUST FAN	MECHANICAL ROOM INTAKE	1600	1.000	FHP	208/160	PENN BARRY SX1380C	C/W FACTORY MOUNTED SPEED CONTROLLER MOUNTED ON FLEXIM, MOTORIZED INTAKE DAMPER & MOTOR GUARD, DVR BY BAS CONTRACTOR.	

GAS FIRED UNIT HEATER SCHEDULE

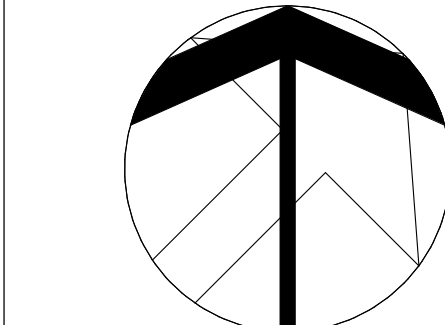
(CAPACITY INDICATED ON SCHEDULE. REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.)								
Mark	Type	Capacity Btuh	Fuel Type	Voltage	MCA	MOCP	Acceptable Manufacturer	Remarks
UH-1	HORIZONTAL GAS FIRED UNIT HEATER	60000 Btuh	GAS	120/160	1.5	15	REZOR UDAS-60	CW VIBRATION ISOLATION HANGERS, SEPARATED COMBUSTION AIR, VERTICAL VENT TERMINATION

EXHAUST HOOD SCHEDULE

(CAPACITY INDICATED ON SCHEDULE. REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.)						
Item	Type	Capacity cfm	SP in WC	Dimensions (inches)	Manufacturer & Model	Remarks
NFPA EXHAUST HOOD	BOX CANOPY FILTER HOOD	1200	0.44	72 L x 53 W	SPRING AIR F8-BMB	CAN 55 SHROUD TO CLG (No. 4 FINISH) AND DUCT COLLAR. FIRE SUPPRESSION SYSTEM AND CONTROL PANEL. PROVIDE LED LIGHT AS SPECIFIED

LOUVRED PENTHOUSE SCHEDULE

(CAPACITY INDICATED ON SCHEDULE. REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.)							
No.	Type	Air Flow cfm	SP.	Throat in.	Dimensions (LxWxH)mm	# of Louvers	Remarks
1	INTAKE	1200 CFM	0.05	16x24	900x600x300	3	C/W 600mm TALL ROOF CURB



—	FLOW DIRECTION	—	GLOBE VALVE
—	DOMESTIC COLD WATER PIPING	—	3-WAY MIXING VALVE
—	DOMESTIC HOT WATER PIPING	—	3-WAY DIVERTING VALVE
—	DOMESTIC HOT WATER RECIRC. PIPING	—	4-WAY VALVE
—	DOMESTIC TEMPERED WATER PIPING	—	VALVE RISER
— SAN —	SANITARY PIPING	— BV —	BALANCING VALVE
— STM —	STORM PIPING	— S —	SUPERISING VALVE
— CD —	CONDENSATE DRAIN	— R —	RUNE PUMP
— SP —	SPRINKLER PIPING	— I —	INDICATING VALVE
— HWS —	HOT WATER SUPPLY PIPING	— TCV —	TEMPERATURE CONTROL VALVE
— HWR —	HOT WATER RETURN PIPING	— W —	WATER METER
— GHS —	HOT GLYCOL SUPPLY PIPING	— CO —	FLOOR CLEANOUT
— GHR —	HOT GLYCOL RETURN PIPING	— GCO —	GROUND CLEANOUT
— HPS —	DUAL TEMP SUPPLY PIPING	—	LINE CLEANOUT
— HPR —	DUAL TEMP RETURN PIPING	— TP —	TEMPERATURE & PRESSURE RELIEF VALVE
— G —	NATURAL GAS PIPING	—	PRESSURE GAUGE
— HPG —	HIGH PRESSURE NATURAL GAS PIPING	—	TEMPERATURE GAUGE
— RL —	REFRIGERANT LIQUID PIPING	—	THERMOMETER
— RS —	REFRIGERANT SUCTION PIPING	— FS —	FIRE SWITCH
— HG —	HOT GAS PIPING	— FM —	FLOW METER
— FD —	FLOOR DRAIN	— PRV —	PRESSURE REDUCING VALVE
— BWS —	BACKWATER VALVE	— G —	THERMOSTAT (WITH GUARD WHERE INDICATED)
—	PIPE DOWN	—	TURNING VANES
—	PIPE UP	—	RETURN AIR DUCT
—	FLEXIBLE CONNECTION	—	EXHAUST AIR DUCT
—	REDUCER / INCREASER	—	ACOUSTIC DUCT LINING
—	CHECK VALVE	—	THERMAL INSULATION
—	DOUBLE CHECK VALVE ASSEMBLY	—	BRANCH LINE SPIN IN COLLAR C/W BALANCING DAMPER
—	REDUCED PRESSURE BACKFLOW PREVENTOR	— BD —	BALANCING DAMPER
—	UNION	— OBD —	OPPOSED BLADE DAMPER
—	STRAINER	—	MOTORIZED DAMPER
—	DRAIN (SCHEMATICS)	—	FIRE SMOKE DAMPER
—	SCREWED OR WELDED PIPE CAP	—	SMOKE DAMPER
— NO —	NORMALLY OPEN	—	DYNAMIC FIRE DAMPER
— NC —	NORMALLY CLOSED	—	FLEXIBLE ROUND DUCT
—	FLUID VALVE	—	OPTIONAL/AVAILABLE SIZE (WHS) TYPE & CAPACITY (HRS)
—	BALL VALVE	— AD —	ACCESS DOOR
—	BUTTERFLY VALVE	—	RETURN IN CABINET
—	GATE VALVE	— AFF —	ABOVE FINISHED FLOOR
— AV —	AIR VENT	—	

HEAT PUMP SCHEDULE

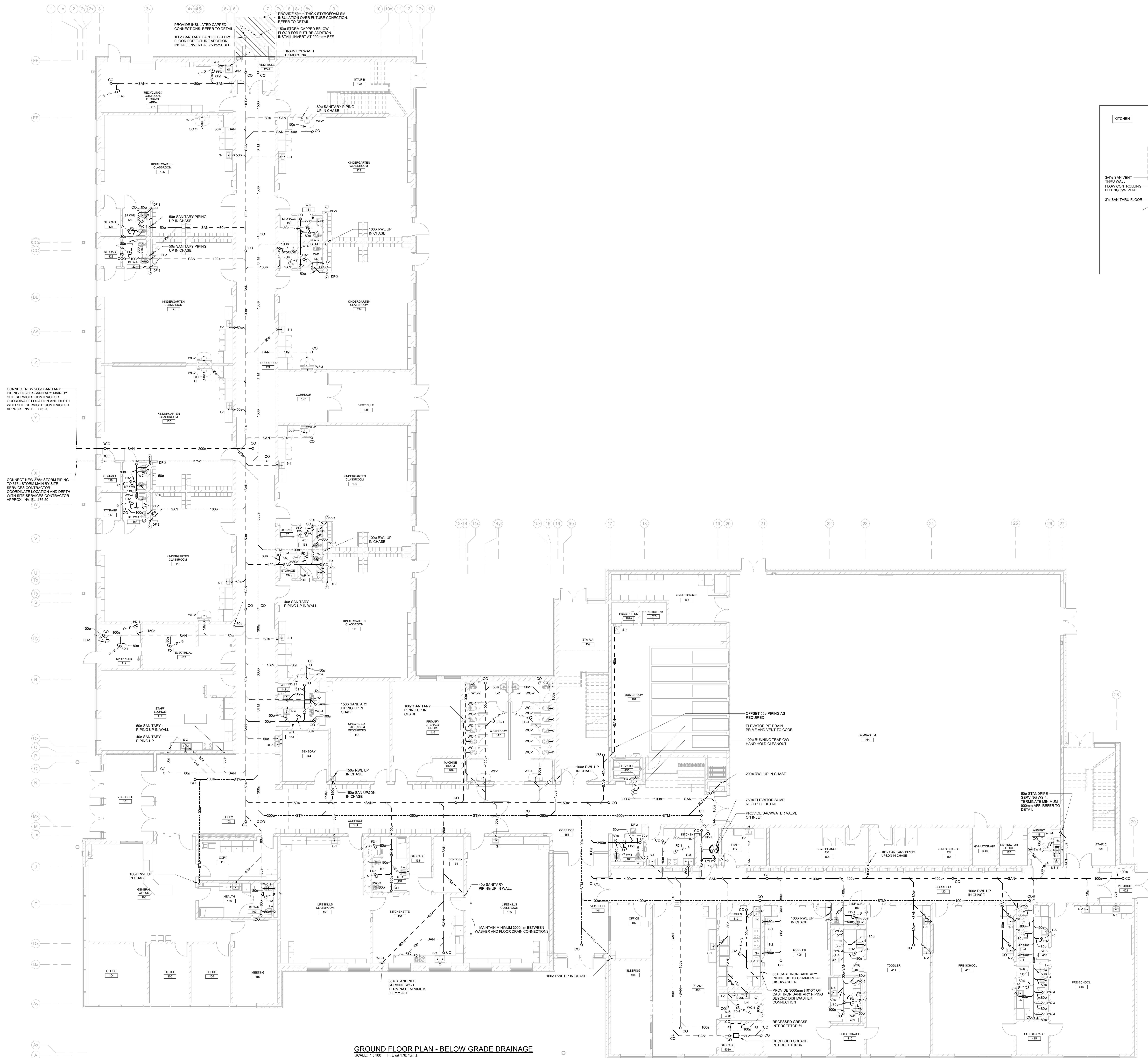
(CAPACITY INDICATED ON SCHEDULE. REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.)														
Mark	Room	Non.	Area	Feet	Coilng Capacity	Heating	Heating	Electrical	Electrical	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable
		sqm	sqm	sqm	sqm	sqm	sqm	sqm	sqm	sqm	sqm	sqm	sqm	sqm
HP-1.1	CORRIDOR 158	0.75	350	300	9,600	2.4	12,600	2.4	WATER	11/10	200/180	6.30	15	DAKIN WSO409
HP-1.2	KITCHENETTE 159	0.75	200	100	9,600	2.4	12,600	2.4	WATER	11/10	200/180	6.30	15	DAKIN WSO409
HP-1.3	LIFESILLS CLASSROOM 155	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-1.4	KITCHENETTE 161 & SENSIORY 154	2.00	700	350	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-1.5	LIFESILLS CLASSROOM 150	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-1.6	PRIMARY LITERACY ROOM 146	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-1.7	SPECIAL ED. STORAGE & RESOURCES 145 & SENSIORY 144	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-1.8	GENERAL OFFICE 103	1.25	450	225	10,000	3.0	16,000	3.0	WATER	11/10	200/180	7.90	15	DAKIN WSO409
HP-1.9	GENERAL OFFICE 103	1.25	450	225	10,000	3.0	16,000	3.0	WATER	11/10	200/180	7.90	15	DAKIN WSO409
HP-1.10	GENERAL OFFICE 103	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-1.11	GENERAL OFFICE 103	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-1.12	LOBBY 102	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-1.13	STAFF LOUNGE 111	1.50	700	350	19,700	5.3	23,800	5.3	WATER	13/10	200/180	11.80	15	DAKIN WSO419
HP-1.14	WASTE & CUSTODIAN STORAGE AREA 114	1.00	400	200	13,000	3.0	16,000	3.0	WATER	11/10	200/180	7.90	15	DAKIN WSO409
HP-1.15	KINDERGARTEN CLASSROOM 141	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-1.16	KINDERGARTEN CLASSROOM 138	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-1.17	KINDERGARTEN CLASSROOM 115	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-1.18	KINDERGARTEN CLASSROOM 115	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-1.19	KINDERGARTEN CLASSROOM 134	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-1.20	KINDERGARTEN CLASSROOM 121	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-1.21	KINDERGARTEN CLASSROOM 120	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-1.22	KINDERGARTEN CLASSROOM 126	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-2.1	OFFICE 402	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-2.2	SLEEPING 404	1.00	380	200	13,000	3.0	16,000	3.0	WATER	11/10	200/180	7.90	15	DAKIN WSO409
HP-2.3	INMATE 405	1.25	450	225	10,000	3.0	16,000	3.0	WATER	11/10	200/180	7.90	15	DAKIN WSO409
HP-2.4	KITCHEN 419	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-2.5	TOILET 406	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-2.6	TOILET 411	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-2.7	PRESCHOOL 412	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-2.8	PRESCHOOL 416	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-2.9	STAFF 417	0.50	250	125	7,600	2.0	10,000	2.0	WATER	11/10	200/180	5.19	15	DAKIN WSO407
HP-3.1	LIBRARY 208	1.00	1200	600	30,000	9.0	42,400	9.0	WATER	13/10	200/180	17.30	25	DAKIN WSO424
HP-3.2	LIBRARY 208	1.00	1200	600	30,000	9.0	42,400	9.0	WATER	13/10	200/180	17.30	25	DAKIN WSO424
HP-3.3	LIBRARY MEZZANE SEMINAR 305	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-3.4	COLLAB 210	1.00	400	200	13,000	3.0	16,000	3.0	WATER	11/10	200/180	7.90	15	DAKIN WSO409
HP-3.5	ACAD STORAGE & STAFF RESOURCE 208	1.25	450	225	10,000	3.0	16,000	3.0	WATER	11/10	200/180	7.90	15	DAKIN WSO409
HP-3.6	SEMINAR 218A	1.00	380	200	13,000	3.0	16,000	3.0	WATER	11/10	200/180	7.90	15	DAKIN WSO409
HP-3.7	RESOURCE ROOM 211	1.50	600	300	19,700	5.3	23,800	5.3	WATER	13/10	200/180	11.80	15	DAKIN WSO419
HP-3.8	CLASSROOM 227	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-3.9	CLASSROOM 228	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-3.10	SPECIAL EDUCATION CLASSROOM 212	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-3.11	CLASSROOM 213	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-3.12	CLASSROOM 214	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-3.13	CLASSROOM 225	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-3.14	CLASSROOM 224	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-3.15	CLASSROOM 115	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-3.16	CLASSROOM 216	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-3.17	CLASSROOM 217	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-3.18	CLASSROOM 222	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-3.19	CLASSROOM 212	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-3.20	CLASSROOM 218	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-3.21	RESOURCE 221	1.00	400	200	13,000	3.0	16,000	3.0	WATER	11/10	200/180	7.90	15	DAKIN WSO409
HP-4.1	COLLAB 307	1.00	400	200	13,000	3.0	16,000	3.0	WATER	11/10	200/180	7.90	15	DAKIN WSO409
HP-4.2	COLLAB 304	1.00	400	200	13,000	3.0	16,000	3.0	WATER	11/10	200/180	7.90	15	DAKIN WSO409
HP-4.3	CLASSROOM 308	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-4.4	RESOURCE 308	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-4.5	CLASSROOM 309	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-4.6	CLASSROOM 301	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-4.7	CLASSROOM 310	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-4.8	CLASSROOM 311	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-4.9	CLASSROOM 320	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-4.10	CLASSROOM 319	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-4.11	APPLICATIONS 312	1.00	1200	600	30,000	9.0	42,400	9.0	WATER	13/10	200/180	17.30	25	DAKIN WSO424
HP-4.12	CLASSROOM 318	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-4.13	SCIENCE 317	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-4.14	ART 313	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-4.15	RESOURCE ROOM 314	1.00	400	200	13,000	3.0	16,000	3.0	WATER	11/10	200/180	7.90	15	DAKIN WSO409
HP-4.16	SEMINAR 303A	1.00	380	200	13,000	3.0	16,000	3.0	WATER	11/10	200/180	7.90	15	DAKIN WSO409
HP-4.17	CLASSROOM 255	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-4.18	CLASSROOM 256	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-4.19	CLASSROOM 217	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-4.20	CLASSROOM 253	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-4.21	CLASSROOM 252	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-4.22	CLASSROOM 251	2.00	900	450	23,800	6.2	27,300	6.2	WATER	13/10	200/180	15.70	25	DAKIN WSO424
HP-4.23	SEMINAR 204	1.00	380	200	13,000	3.0	16,000	3.0	WATER	11/10	200/180	7.90	15	DAKIN WSO409
HP-4.24	INPA ROOM 251	1.00	1150	575	11,500	2.9	14,800	2.9	N/A	N/A	N/A	N/A	N/A	N/A
(CONNECT TO CU-2)														

NOTES:

PROVIDE ONE MOTOR, 2-WAY CONTROL, VALVE CW STRAINER, MANUAL BALANCING VALVE, MERV 13 FILTER FOR ALL HEAT PUMP UNITS TO BE COMPLETED BY 3-WAY CONTROL VALVES, SUITABLE FOR GAS, GLYCOL SOLUTION

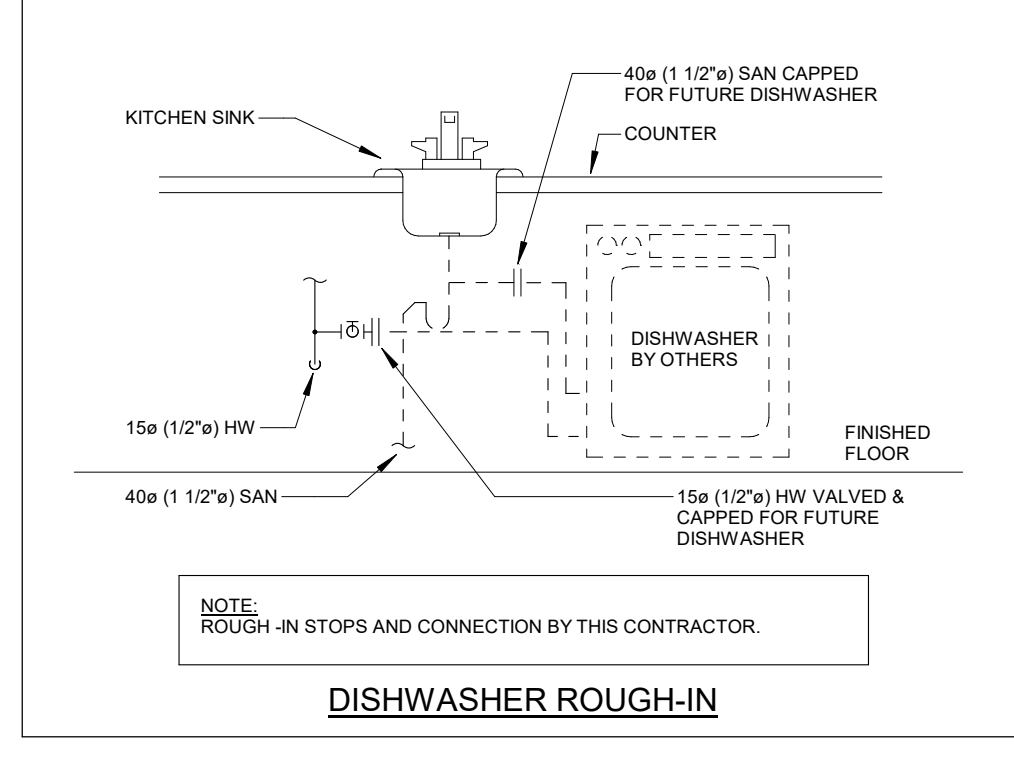
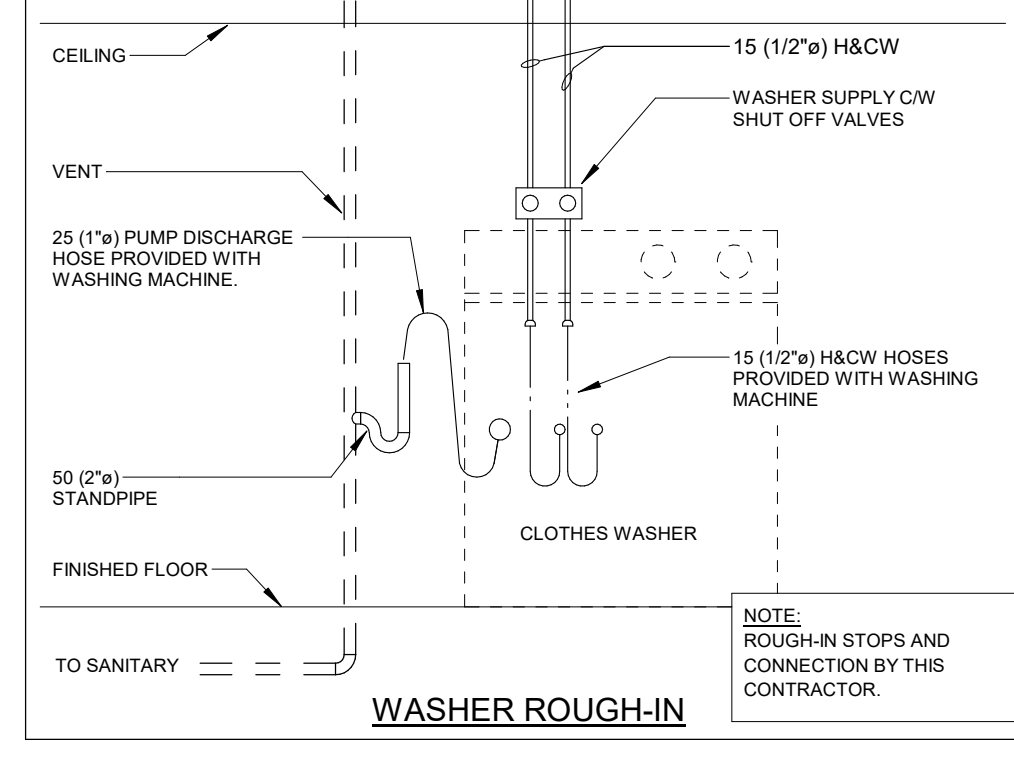
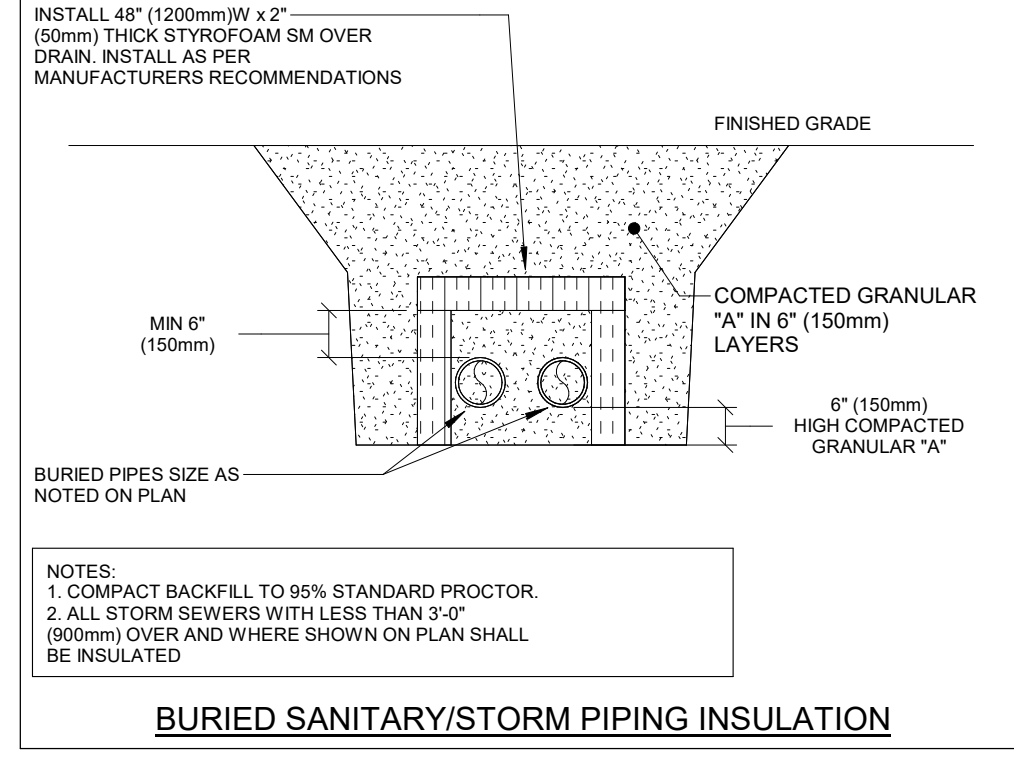
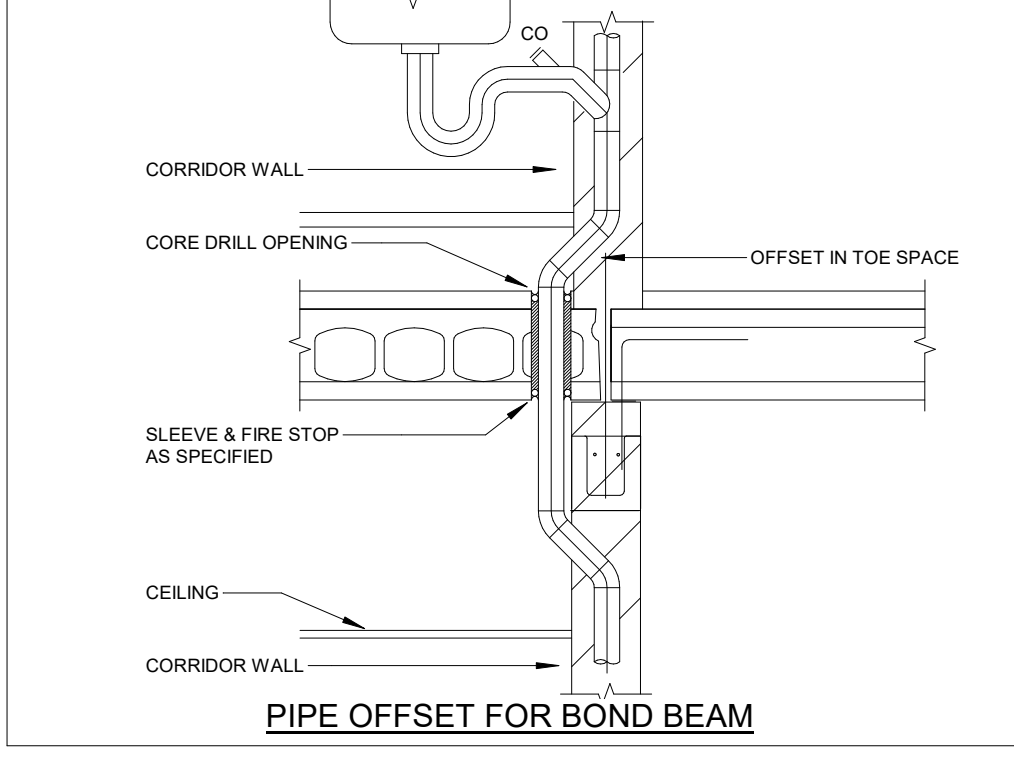
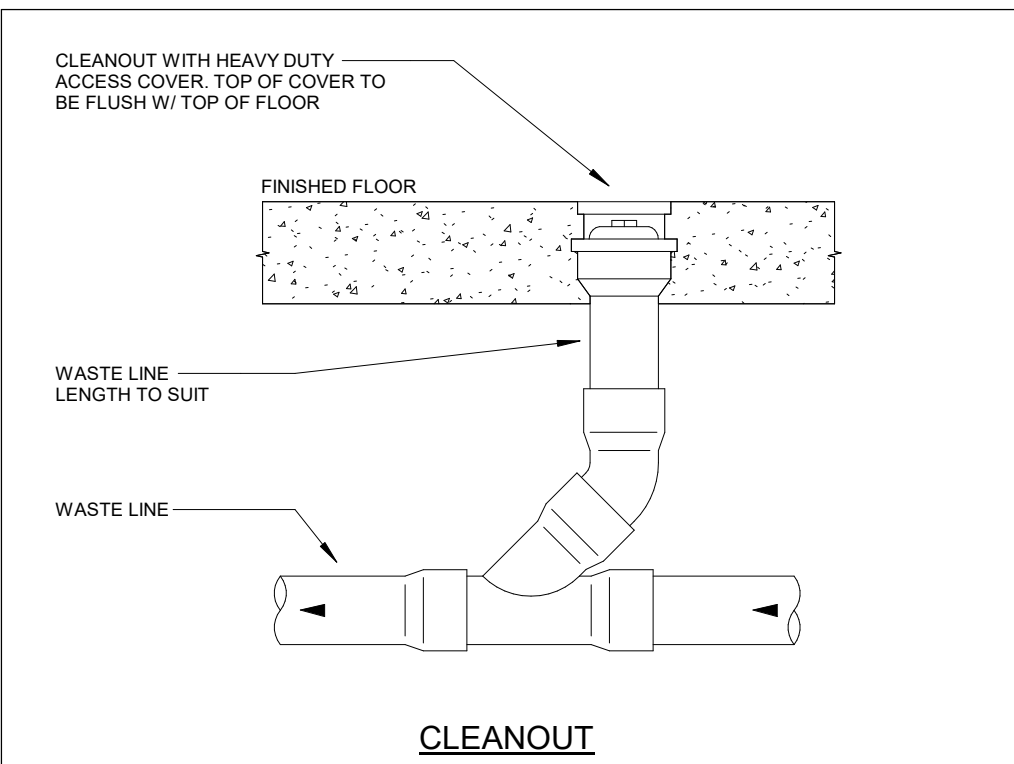
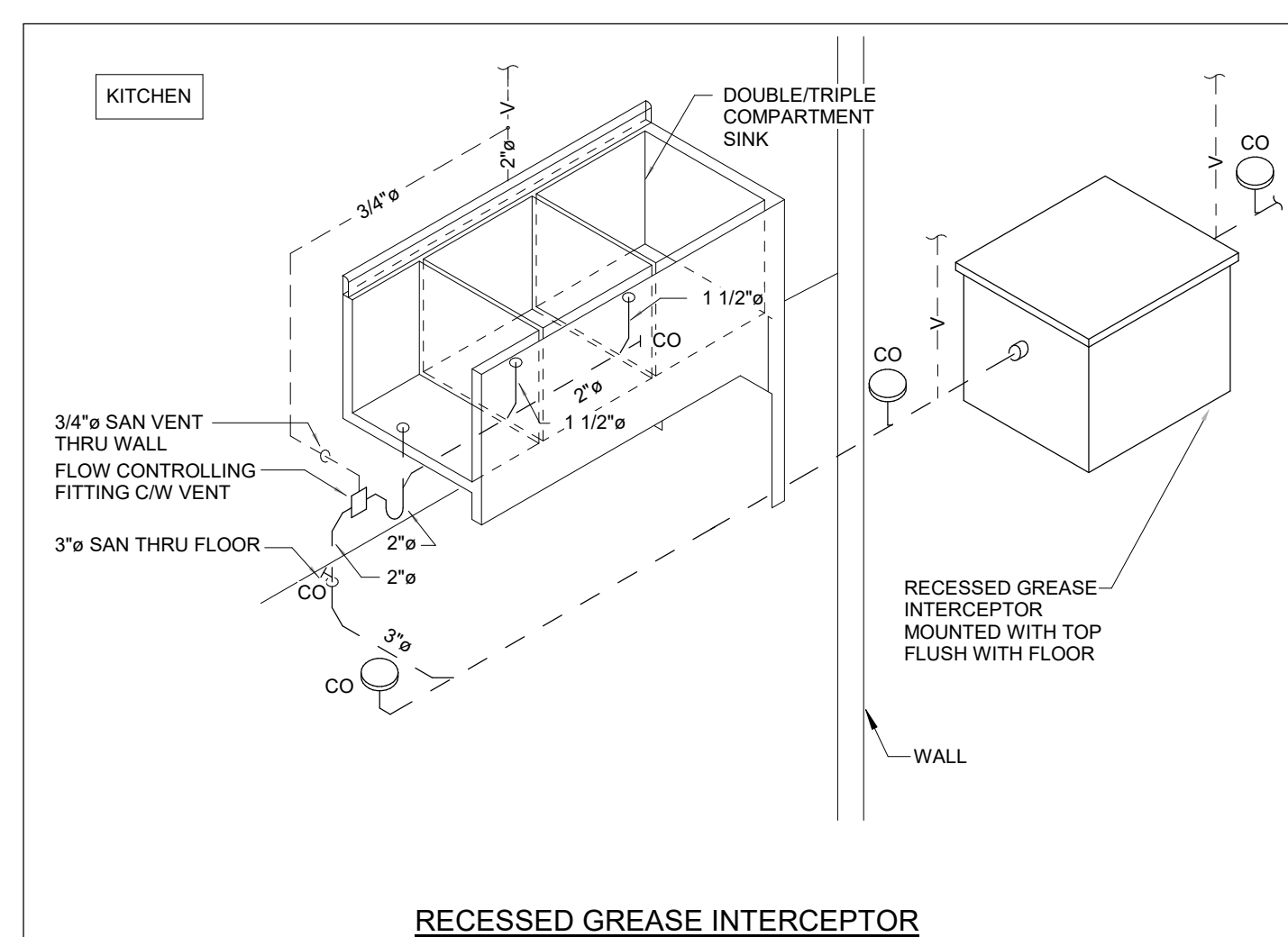
VIBRATION ISOLATION SCHEDULE

Mark	Base Type	Isolator Series	Static Deflection	Isolator Category	Remarks
CU-1	RAIL		1.0	3	ISOLATING RAILS BY COOLING TOWER MANUFACTURER, INCLUDE IN SHOP DRAWING SUBMITTAL
CU-1	-	VSV	1.0	3	PROVIDE CONTINUOUS SUPPORT
CU-2	-	VSV	1.0	3	PROVIDE CONTINUOUS SUPPORT



GROUND FLOOR PLAN - BELOW GRADE DRAINAGE
SCALE: 1:100 F.T.E @ 1/8"=1'-0"

- GENERAL NOTES**
- COORDINATE ROUGH-IN AND MOUNTING HEIGHTS OF FIXTURES WITH MILLWORK AND ARCHITECTURAL DETAILS.
 - SANITARY VENT PIPING IS NOT SHOWN. PROVIDE ALL NECESSARY VENT PIPING FROM ALL FIXTURES FOR A COMPLETE SYSTEM TO ALL LOCAL PLUMBING CODE & LOCAL AUTHORITY REQUIREMENTS. CONNECTED TO EXISTING VENTS OR NEW VENTS AS REQUIRED. CO-ORDINATE VENT LOCATIONS WITH GENERAL CONTRACTOR. MAINTAIN MINIMUM 4200mm (14'-0") FROM ANY AIR INLET. INSTALL VENT PIPING HIGH IN JOIST SPACE.
 - COORDINATE UNDERGROUND STORM AND SANITARY PIPING WITH KEEPING TILE SYSTEM. REFER TO ARCHITECTURAL DRAWINGS FOR PROPOSED LOCATIONS.
 - ALL FLOOR DRAINS ARE TO BE VENTED AND TRAP SEAL PRIMED. PROVIDE AUTOMATIC TRAP SEAL PRIMERS, MANIFOLDS AND ASSOCIATED PIPING AS REQUIRED.



NO.	DESCRIPTION	DATE
11	ISSUED FOR TENDER	26.01.13
12	PRE-ISSUED FOR PERMIT	25.04.08
13	ISSUED FOR PERMIT & TENDER	24.03.04
14	ISSUED FOR TENDER	24.01.16
15	ISSUED FOR PERMIT	23.12.15
16	ISSUED FOR 90% REVIEW	23.12.07
17	ISSUED FOR 90% REVIEW	23.11.24
18	ISSUED FOR 90% REVIEW	23.10.30
19	ISSUED FOR 90% REVIEW	23.10.13
20	ISSUED FOR 75% REVIEW	23.10.04
21	DATE	

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.
The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.
The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions. Drawings and specifications, etc., prepared and issued by the consultant are the property of the consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant.
Do not scale the drawing.
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OAKVILLE #5 PUBLIC SCHOOL
3480 PRESERVE DRIVE, OAKVILLE, ON

LEGAL DESCRIPTION
BLOCK XX
REGISTERED PLAN XXXXX
TOWN OF OAKVILLE
REGION OF HALTON

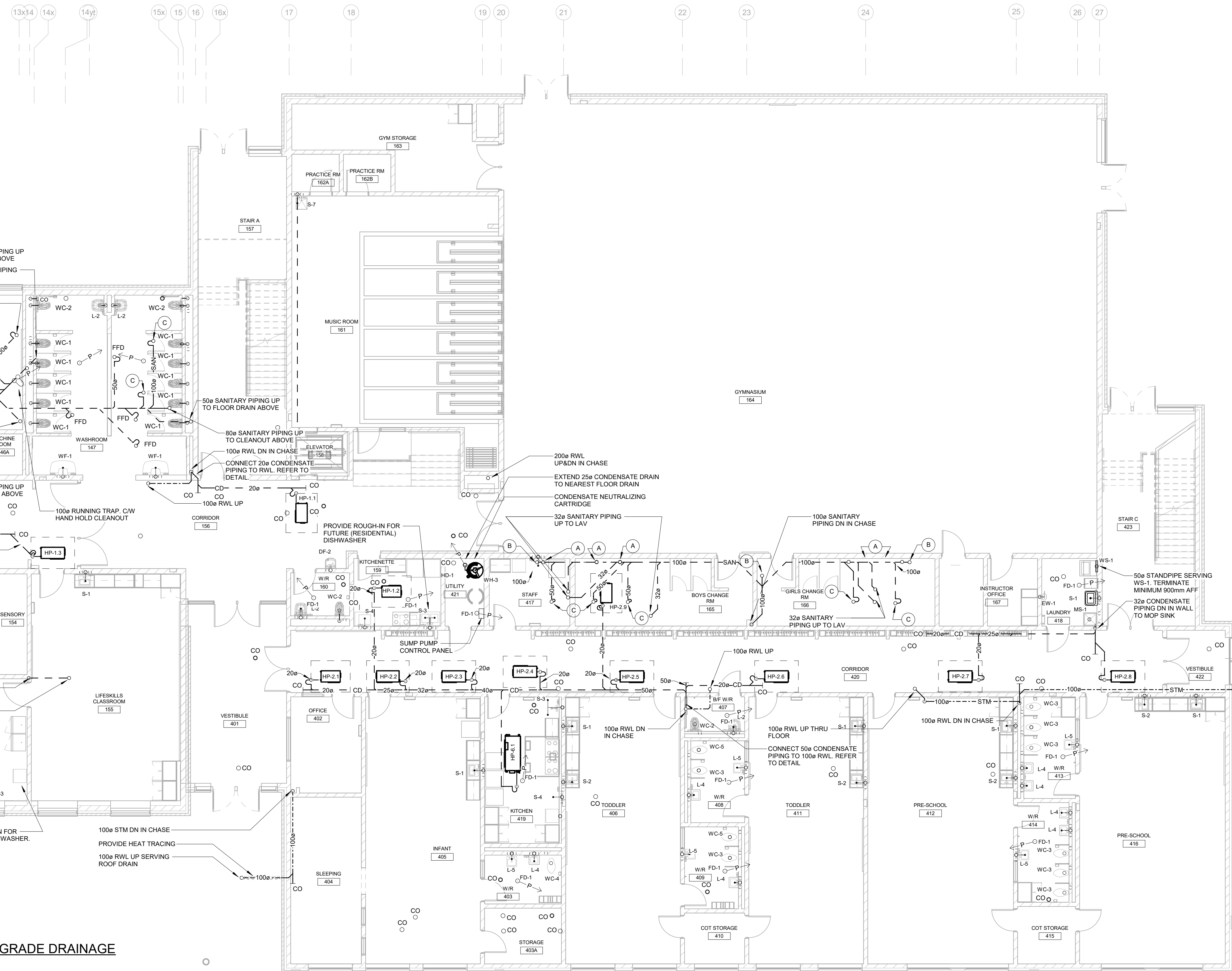
MALTON DISTRICT SCHOOL BOARD
1100 KINGSTON EDUCATION CENTRE
BURLINGTON, ON L7R 5Z2
TEL (905) 335-3683
FAX (905) 335-3682

GROUND FLOOR PLAN - BELOW GRADE DRAINAGE

25 Northland Road
Windsor, ON, N9A 1Y8
Phone: 519-755-0555
Windsor@dei.ca
Project Number: 22075

Consulting Engineers

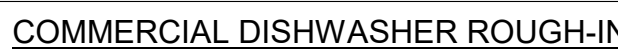
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CHECKED	SM	M201
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SCALE: 1 : 100 FFE @ 178.75m ±

- CO-ORDINATE UNDERGROUND STORM AND SANITARY PIPING WITH WEEPING TILE SYSTEM. REFER TO ARCHITECTURAL DRAWINGS FOR PROPOSED LOCATIONS.
- ALL FLOOR DRAINS ARE TO BE VENTED AND TRAP SEAL PRIMED. PROVIDE AUTOMATIC TRAP SEAL PRIMERS, MANIFOLDS AND ASSOCIATED PIPING AS REQUIRED.

C. 500 SANITARY PIPING UP TO FLOOR DRAIN ABOVE



The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.

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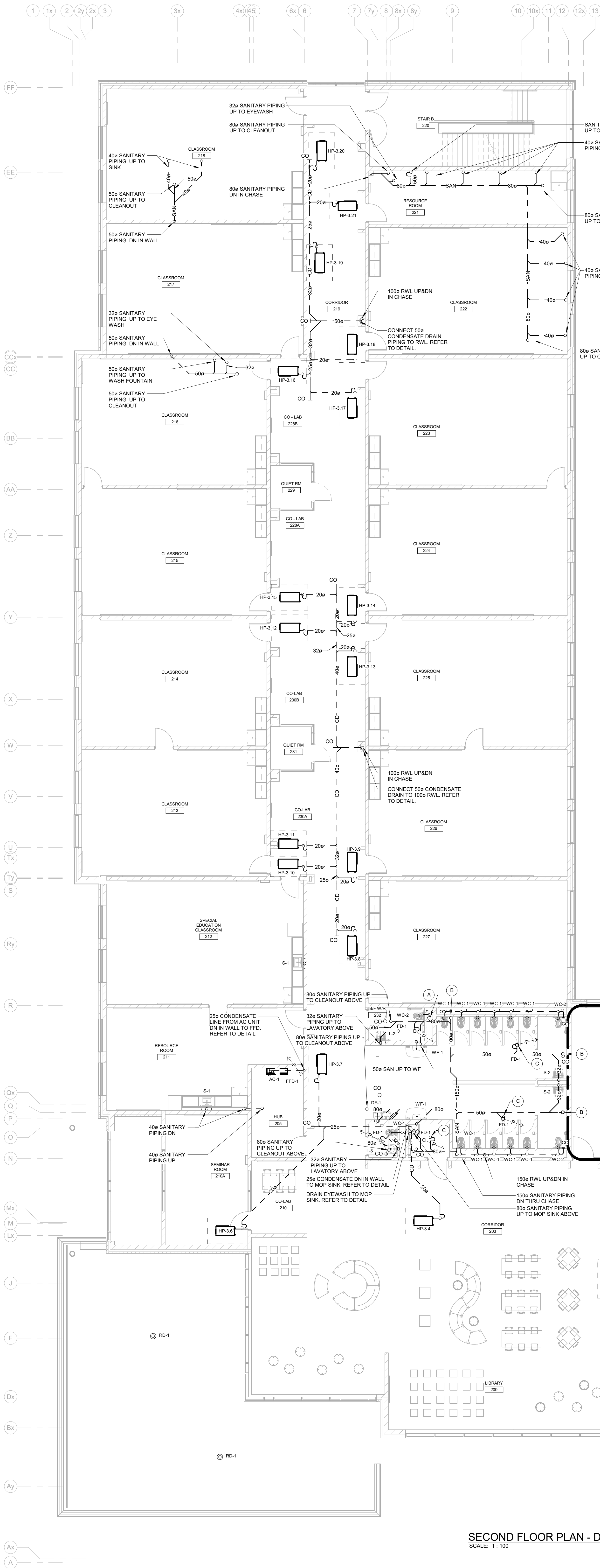
Do not scale this drawing.

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BLOCK XX
REGISTERED PLAN XXXXX
TOWN OF OAKVILLE
REGION OF HALTON

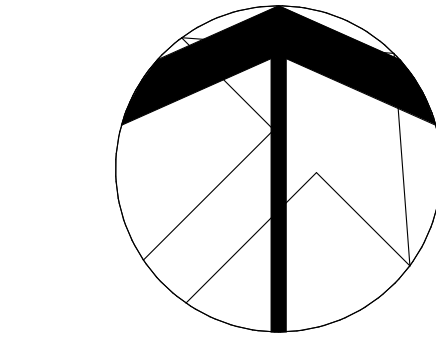
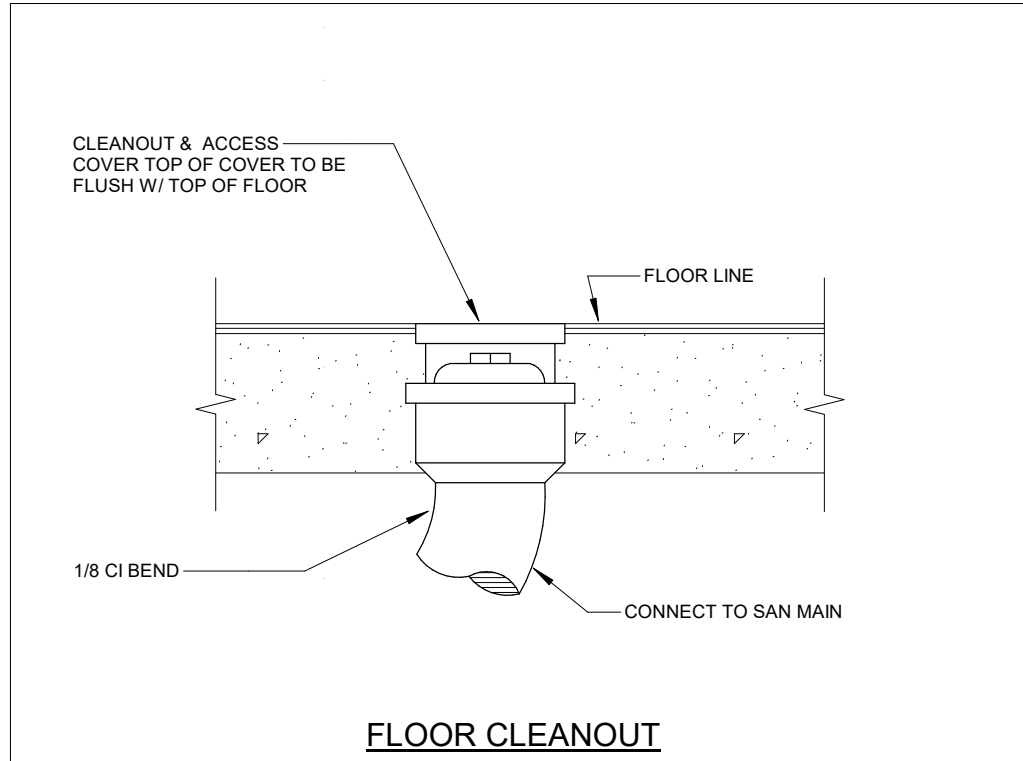
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SECOND FLOOR PLAN - DRAINAGE
SCALE: 1/100

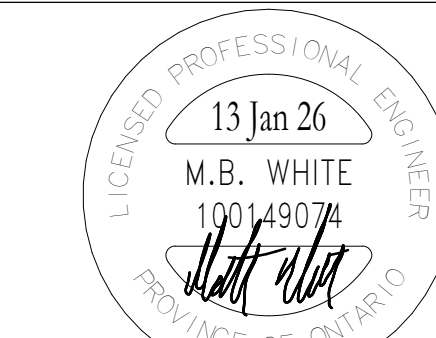
- GENERAL NOTES**
- CO-ORDINATE ROUGH-IN AND MOUNTING HEIGHTS OF FIXTURES WITH MILLWORK AND ARCHITECTURAL DETAILS.
 - SANITARY VENT PIPING IS NOT SHOWN. PROVIDE ALL NECESSARY VENT PIPING FROM ALL FIXTURES FOR A COMPLETE SYSTEM TO ALL LOCAL PLUMBING CODE & LOCAL AUTHORITY REQUIREMENTS, CONNECTED TO EXISTING VENTS OR NEW VENTS AS REQUIRED. CO-ORDINATE VENT LOCATIONS WITH GENERAL CONTRACTOR. MAINTAIN MINIMUM 4200mm (14'-0") FROM ANY AIR INLET. INSTALL VENT PIPING HIGH IN JOIST SPACE.
 - CO-ORDINATE UNDERGROUND STORM AND SANITARY PIPING WITH WEeping TILE SYSTEM. REFER TO ARCHITECTURAL DRAWINGS FOR PROPOSED LOCATIONS.
 - ALL FLOOR DRAINS ARE TO BE VENTED AND TRAP SEAL PRIMED. PROVIDE AUTOMATIC TRAP SEAL PRIMERS, MANIFOLDS AND ASSOCIATED PIPING AS REQUIRED.
 - EXTEND CLEANOUTS UP THROUGH FLOOR (TYPICAL).

- SPECIFIC NOTES**
- A. 80mm SANITARY PIPING UP TO WATER CLOSET ABOVE.
B. 100mm SANITARY PIPING UP TO CLEANOUT ABOVE. EXTEND PIPING THRU FLOOR. REFER TO DETAIL.
C. 50mm SANITARY PIPING UP TO FLOOR DRAIN ABOVE.



11	ISSUED FOR TENDER	26.01.13
9	REVISED FOR PERMIT	25.04.08
8	ISSUED FOR PERMIT & TENDER	24.03.04
7	ISSUED FOR TENDER	24.01.16
6	ISSUED FOR PERMIT	23.12.15
5	ISSUED FOR 90% REVIEW	23.12.07
4	ISSUED FOR 90% REVIEW	23.11.24
3	ISSUED FOR 90% REVIEW	23.10.30
2	ISSUED FOR 90% REVIEW	23.10.13
1	ISSUED FOR 75% REVIEW	23.10.04
NO	DATE	

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.
The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.
The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions. Drawings and specifications, etc., prepared and issued by the consultant are the property of the consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant.
Do not scale the drawing.
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OAKVILLE #5 PUBLIC SCHOOL
3480 PRESERVE DRIVE, OAKVILLE, ON

LEGAL DESCRIPTION

BLOCK XX
REGISTERED PLAN XXXXX
TOWN OF OAKVILLE
REGION OF HALTON

MALTON DISTRICT SCHOOL BOARD
L.V. SINGLETON EDUCATION CENTRE
1050 QUELPH LINE
BURLINGTON, ON, L7R 5Z2
TEL (905) 335-3863
FAX (905) 335-3862

SECOND FLOOR PLAN - DRAINAGE

HOSSACK & ASSOCIATES ARCHITECTS
15 Northland Road
Windsor, ON, N9A 1Y8
Phone: 519-253-0554
Website: hossaack.com
Project Number: 22-05

DEI Consulting Engineers

MECHANICAL ELECTRICAL AQUATIC

SCALE: As Indicated

PROJECT: 22383

DATE: SEPT 2023

DRAWN: AP/IE

CHECKED: SM

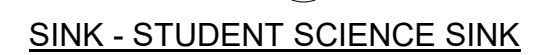
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M203



- CO-ORDINATE ROUGH-IN AND MOUNTING HEIGHTS OF FIXTURES WITH MILLWORK AND ARCHITECTURAL DETAILS.
- SANITARY VENT PIPING IS NOT SHOWN. PROVIDE ALL NECESSARY VENT PIPING FROM ALL FIXTURES FOR A COMPLETE SYSTEM TO ALL LOCAL PLUMBING CODE AND LOCAL AGENCY REQUIREMENTS. CONNECTED TO EXISTING VENTS OR NEW VENTS AS REQUIRED. CO-ORDINATE VENT LOCATIONS WITH GENERAL CONTRACTOR. MAINTAIN MINIMUM 4200mm (14'-0") FROM ANY AIR INLET. INSTALL 150mm (6") CHIMNEY CAP.
- CO-ORDINATE UNDERGROUND STORMS AND SANITARY PIPING WITH WEEPING TILE SYSTEM. REFER TO ARCHITECTURAL DRAWINGS FOR PROPOSED LOCATIONS.
- ALL FLOOR DRAINS ARE TO BE VENTED AND TRAP SEAL PRIMED. PROVIDE AUTOMATIC TRAP SEAL PRIMERS, MANIFOLDS AND ASSOCIATED PIPING AS REQUIRED.
- EXTEND CLEANOUTS UP THROUGH FLOOR (TYPICAL).



11	ISSUED FOR TENDER	26.01.13
9	RE-ISSUED FOR PERMIT	25.04.09
8	ISSUED FOR PERMIT & TENDER	24.03.04
7	ISSUED FOR TENDER	24.01.16
6	ISSUED FOR PERMIT	23.12.15
5	ISSUED FOR 99% REVIEW	23.12.15
4	ISSUED FOR 95% REVIEW	23.11.24
3	ISSUED FOR 90% REVIEW	23.10.30
2	ISSUED FOR 85% REVIEW	23.10.13
1	ISSUED FOR 75% REVIEW	23.10.04
NO.	DESCRIPTION	DATE

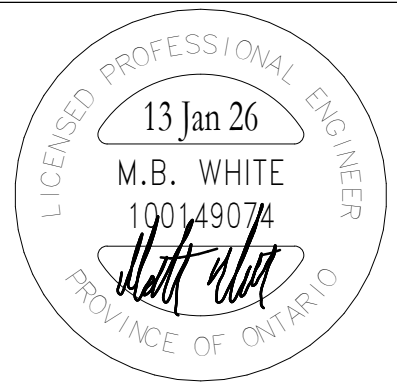
The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.

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Do not scale this drawing.

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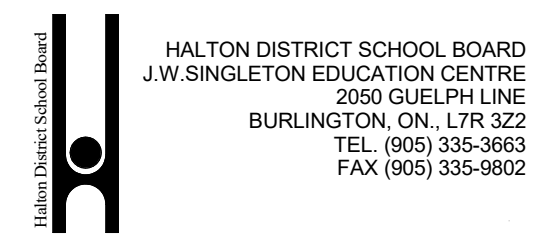


OAKVILLE #5 P
SCHOOL

3490 PRESERVE DRIVE, OAKVILLE, ON

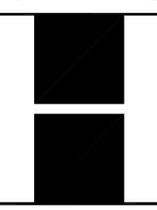
LEGAL DESCRIPTION

BLOCK XX
REGISTERED PLAN XXXXX
TOWN OF OAKVILLE
REGION OF HALTON



THIRD FLOOR PLAN - DRAINAGE

HOSSACK
& ASSOCIATES
ARCHITECTS



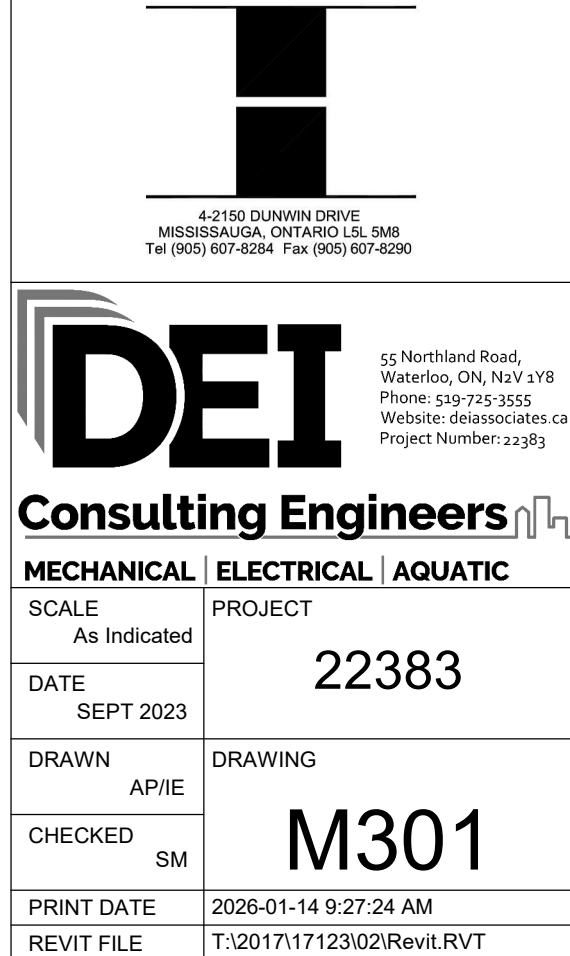
4-2102 DUNN DRIVE
MISSISSAUGA, ONTARIO L5B 5M0
Tel (905) 607-6284 Fax (905) 607-6280

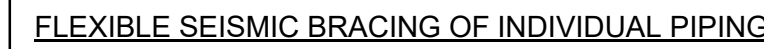
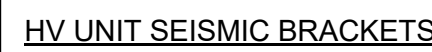
DEI

55 Northland Road,
Warkton, ON, N2V 1Y8
Phone: 519-757-3555
WebSite: deiconsult.ca
Project Number: 12373

Consulting Engineers

MECHANICAL		ELECTRICAL	AQUATIC
SCALE	As Indicated	PROJECT	
DATE	SEPT 2023	22383	
DRAWN	APIVE	DRAWING	
CHECKED	SM	M204	
PRINT DATE	2026-01-14 9:27:15 AM		
REVIT FILE	T:\2017-17\12302\Revit.RVT		





-



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A circular professional seal for a Licensed Professional Engineer in the Province of Ontario. The seal contains the following text: "LICENSED PROFESSIONAL ENGINEER" around the top arc, "13 Jan 26" in the center, "M.B. WHITE" below the date, "100149074" below the name, a handwritten signature, and "PROVINCE OF ONTARIO" around the bottom arc.

OAKVILLE #5 PUBLIC
SCHOOL

3400 PRESERVE DRIVE, OAKVILLE, ON

<u>LEGAL DESCRIPTION</u>

BLOCK XX
REGISTERED PLAN XXXXX
TOWN OF OAKVILLE
REGION OF HALTON

REGION OF HALTON

 HALTON DISTRICT SCHOOL BOARD

HATHORN DISTRICT SCHOOL BOARD
J.W. SINGLETON EDUCATION CENTRE
2050 GUELPH LINE
BURLINGTON, ON., L7R 3Z2
TEL. (905) 335-3863
FAX (905) 335-9002

SECOND FLOOR
PLAN - PIPING

HOSSACK

**HOSSACK
& ASSOCIATES**

ARCHITECTS

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1000

4-2150 DUNWYN DRIVE
MISSISSAUGA, ONTARIO L9S 5M0

Tel (905) 807-6284 Fax (905) 607-8290

DET 55 Northland Road,
Singapore 437000

DEL Associates Ltd.
Waterloo, ON, N2Z 3T0
Phone: 519-745-3555
Website: delassociates.ca
Project Number: 11-001

Consulting Engineers

MECHANICAL | ELECTRICAL | AQUATIC

SCALE As Indicated	PROJECT
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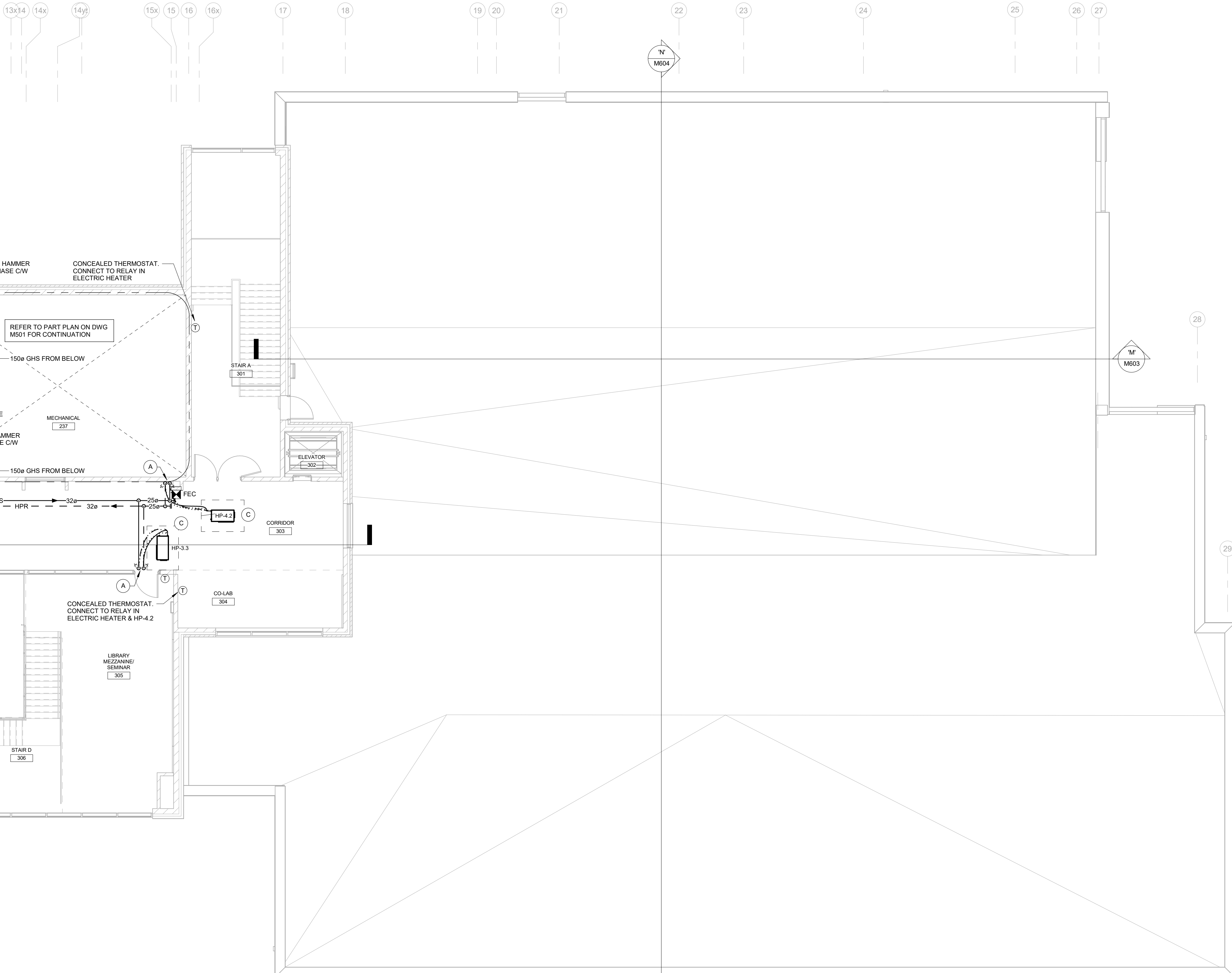
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SEPT 2023	

DRAWN	DRAWING
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REVIT FILE	T:\2017\17123\02\Revit.RVT
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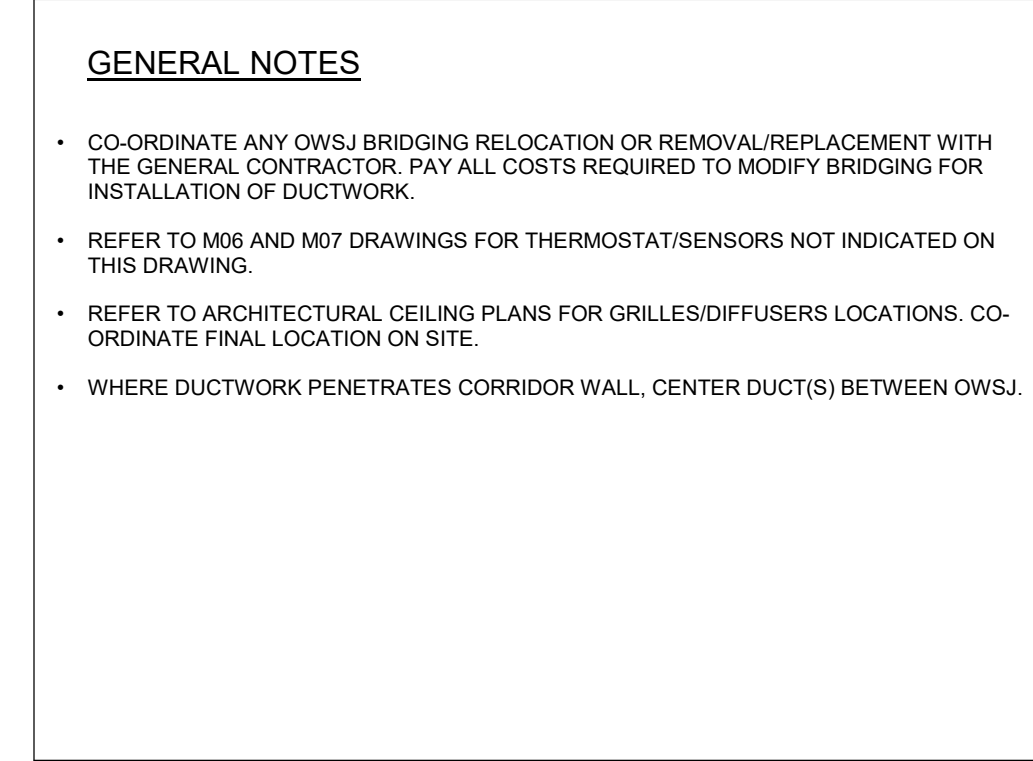
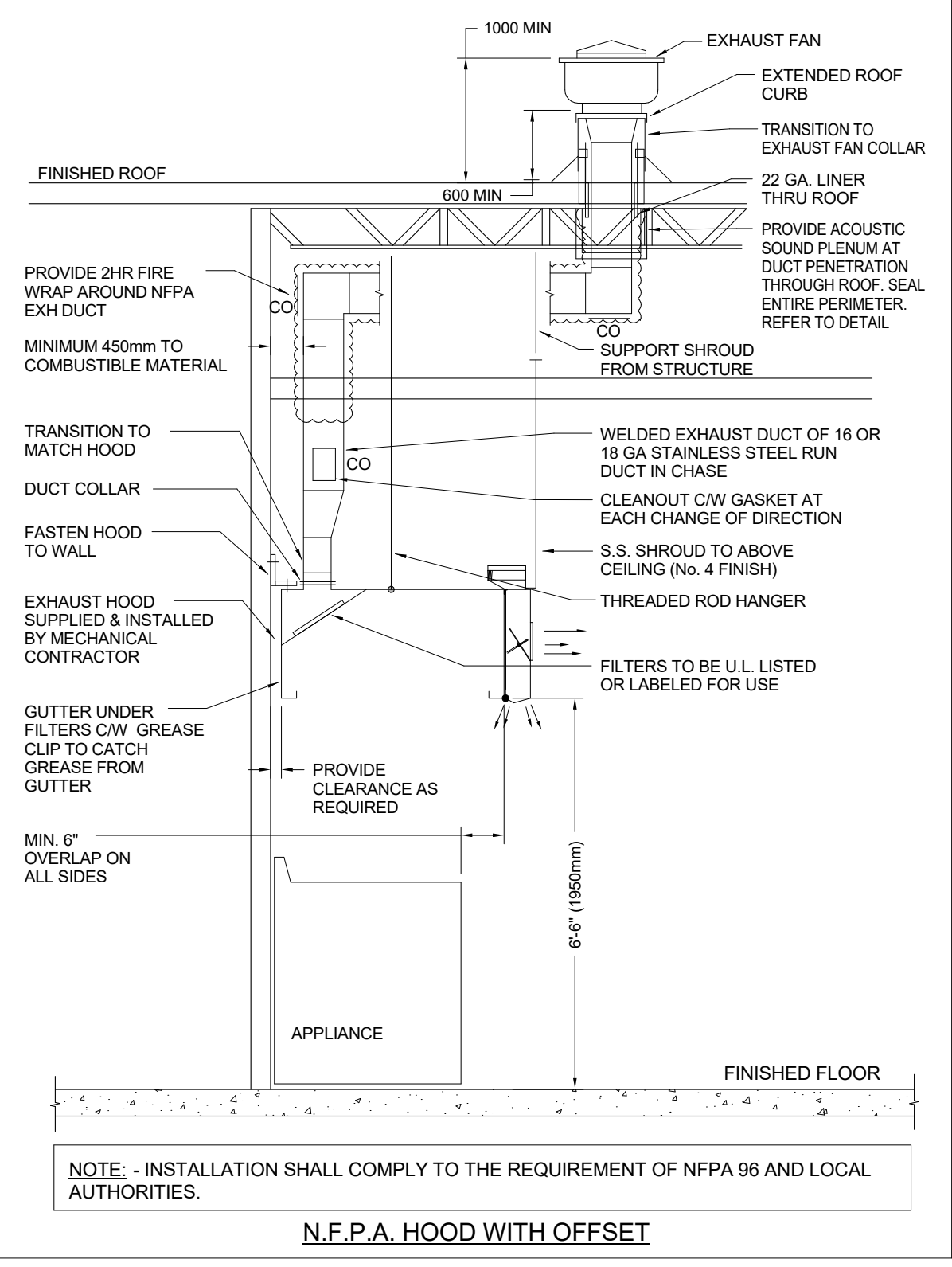
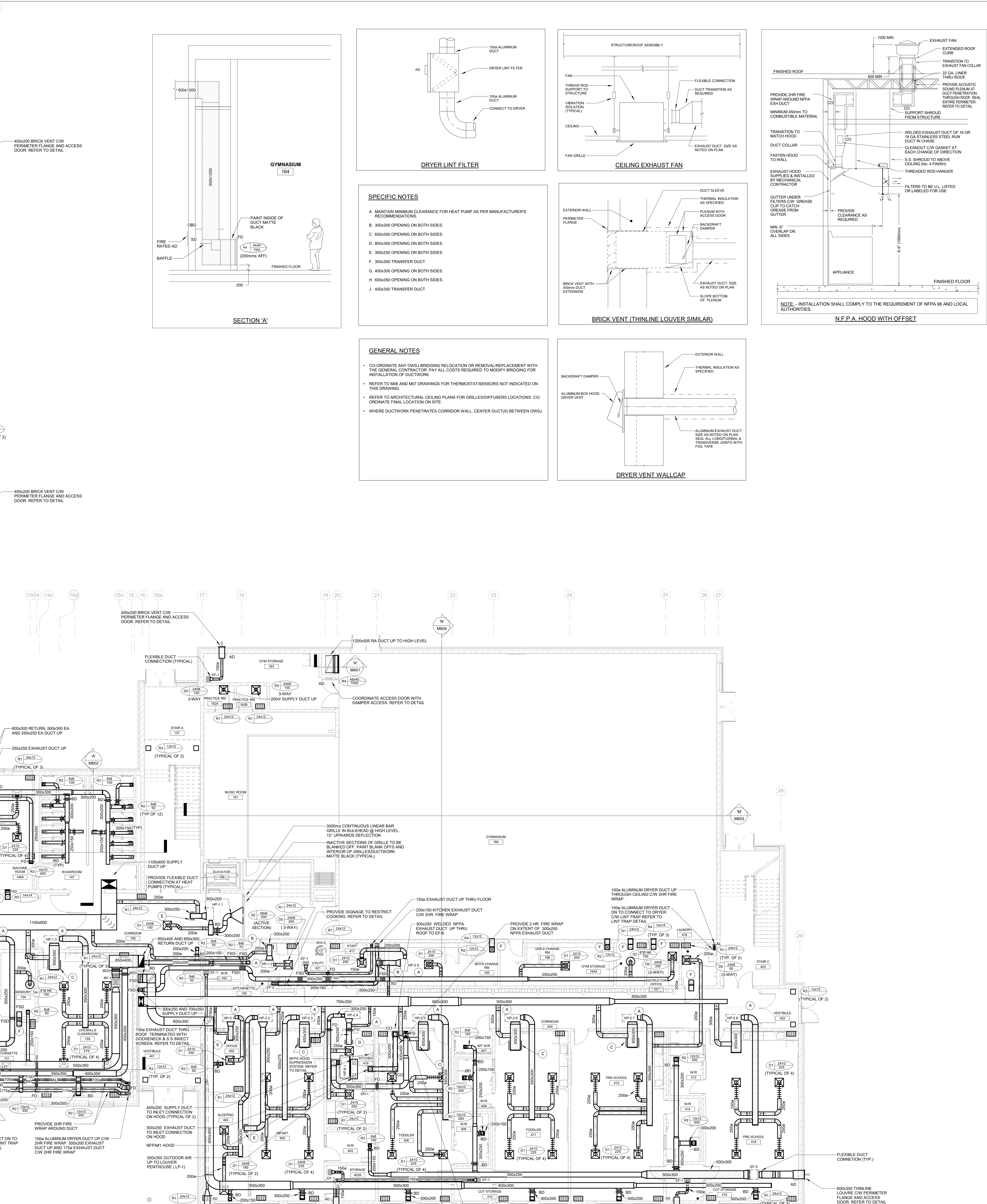




55 Northland Road,
Windsor, ON N4V 1V9
Phone: 519-757-3555
Website: dnamscotes.ca
Project Number: 12375

Consulting Engineers

MECHANICAL	ELECTRICAL	AQUATIC
SCALE As Indicated	PROJECT	22383
DATE SEPT 2023		
DRAWN AP/IE	DRAWING	
CHECKED SM		
PRINT DATE REVIT FILE	2026-01-14 9:27:35 AM T:\2017\1712302\Revit\RVT	



LEGAL DESCRIPTION

REGISTERED PLAN XXXXX
TOWN OF OAKVILLE
REGION OF HALTON

HALTON DISTRICT SCHOOL BOARD
J.W. SINGLETON EDUCATION CENTRE
2050 GUELPH LINE
BURLINGTON, ON. L7R 3Z2
TEL. (905) 335-3863
FAX (905) 335-9802

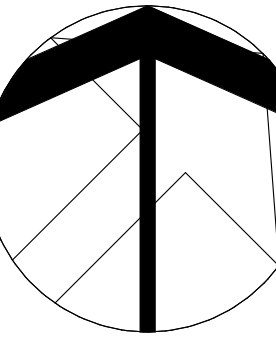
GROUND FLOOR PLAN - VENTILATION

**HOSSACK
& ASSOCIATES
ARCHITECTS**

DEI
Consulting Engineers

55 Northland Road,
Waterloo, ON, N2V 1Y8
Phone: 519-725-3555
Website: delassociates.ca
Project Number: 12303

MECHANICAL		ELECTRICAL AQUATIC
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DATE SEPT 2023		
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PRINT DATE		
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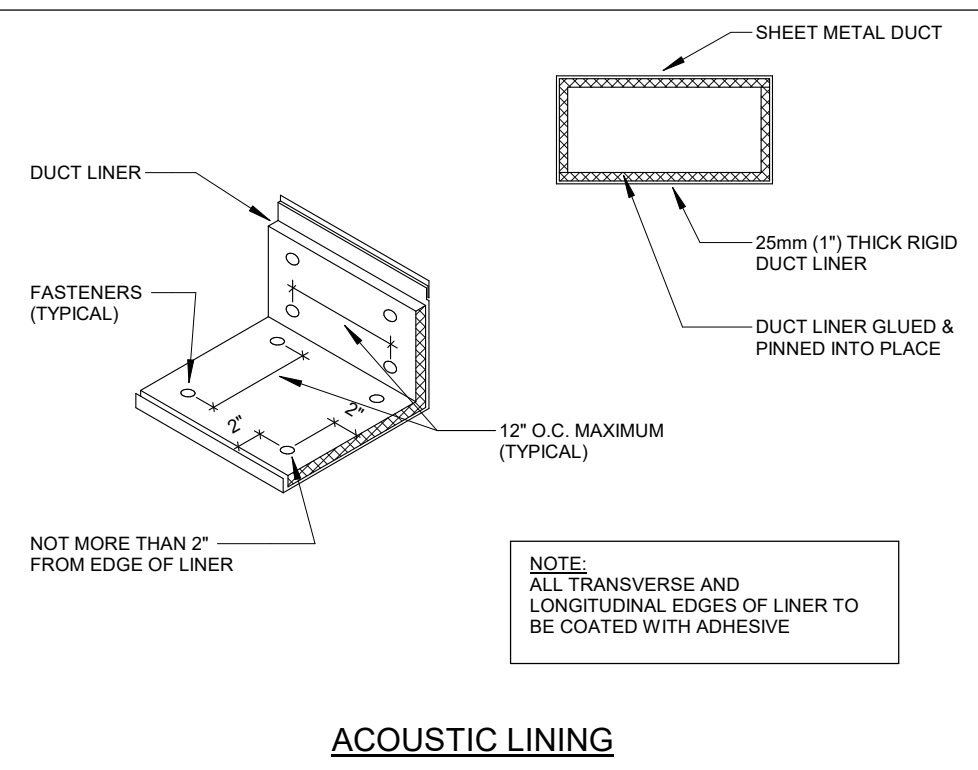
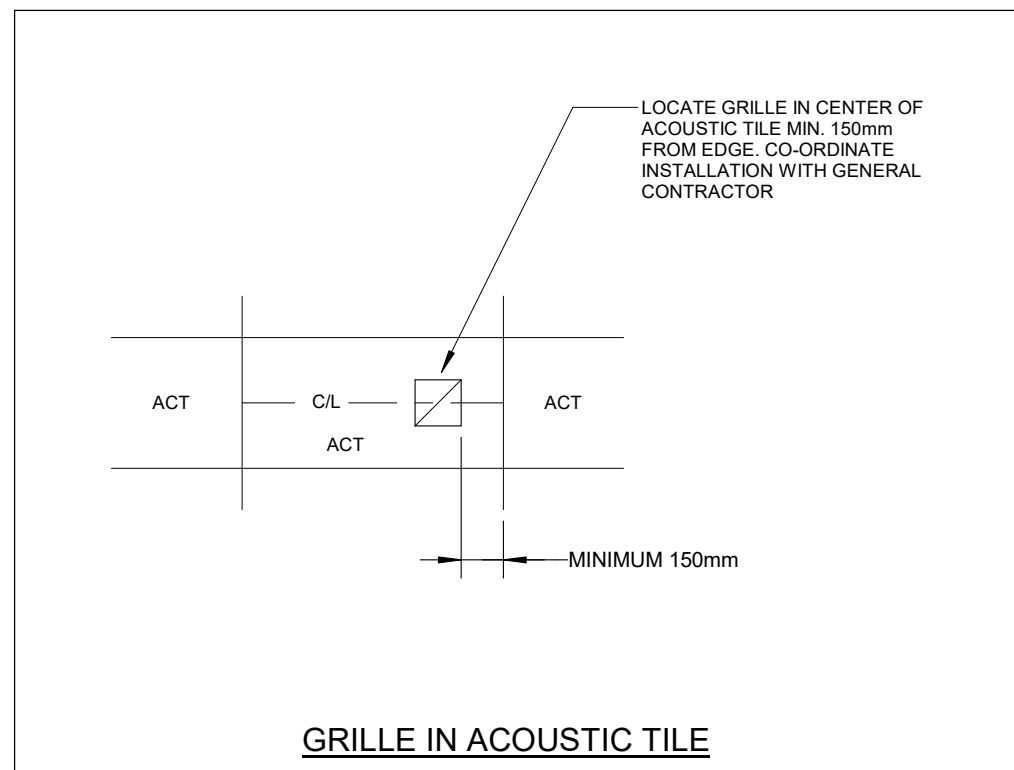
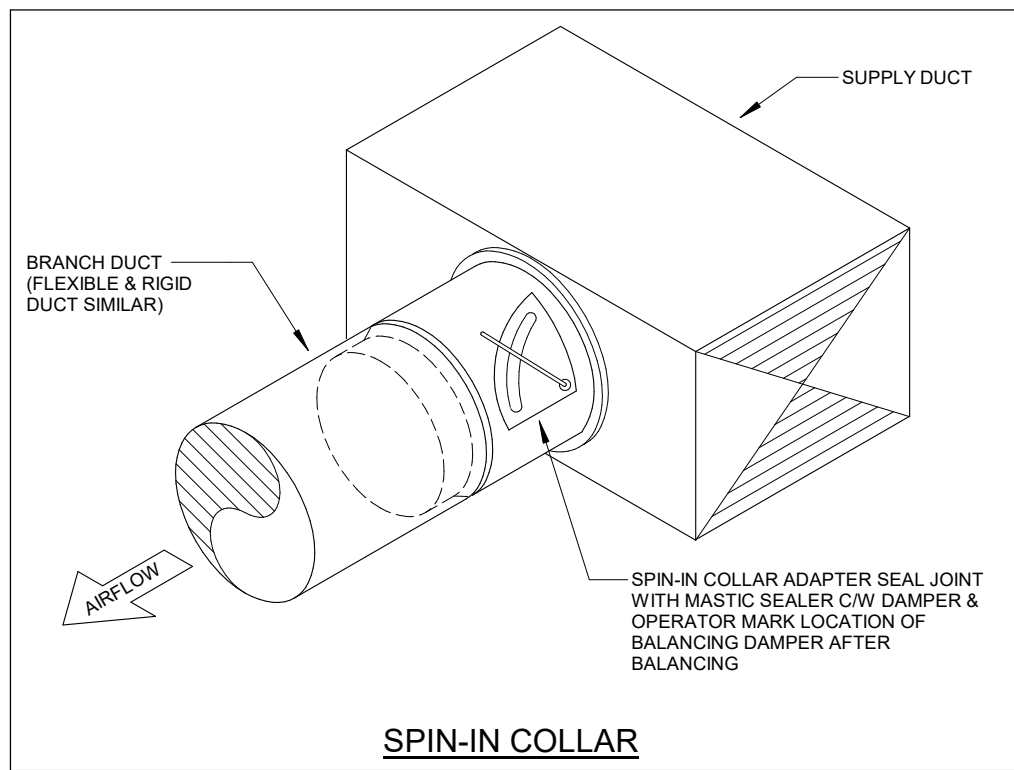
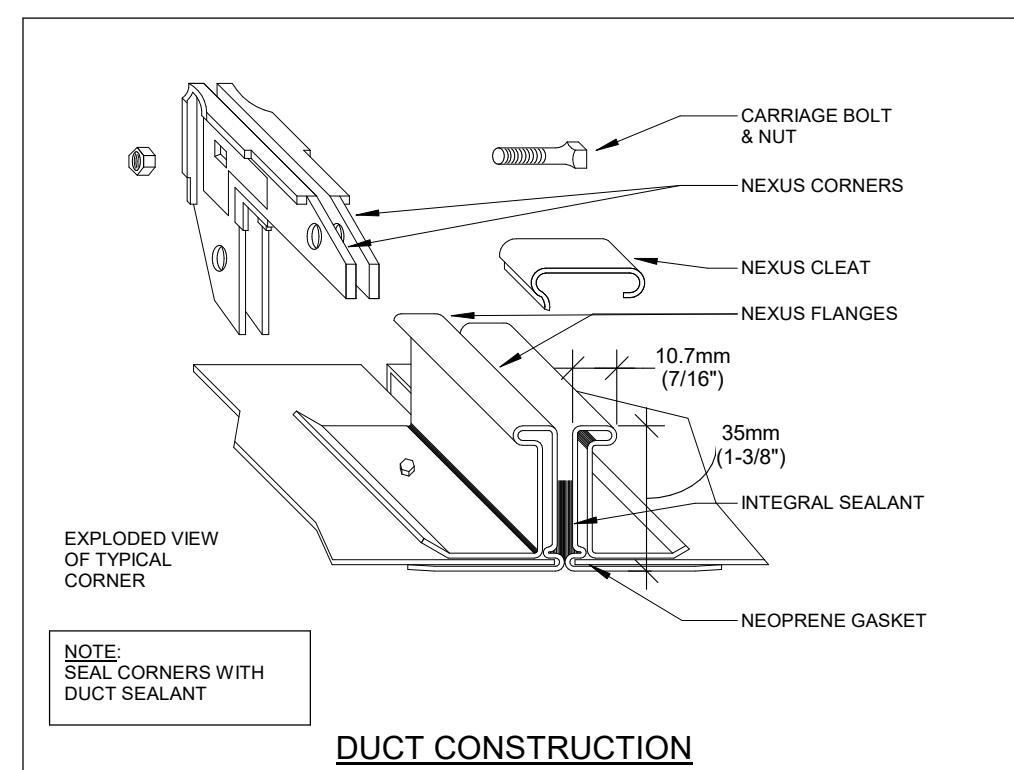
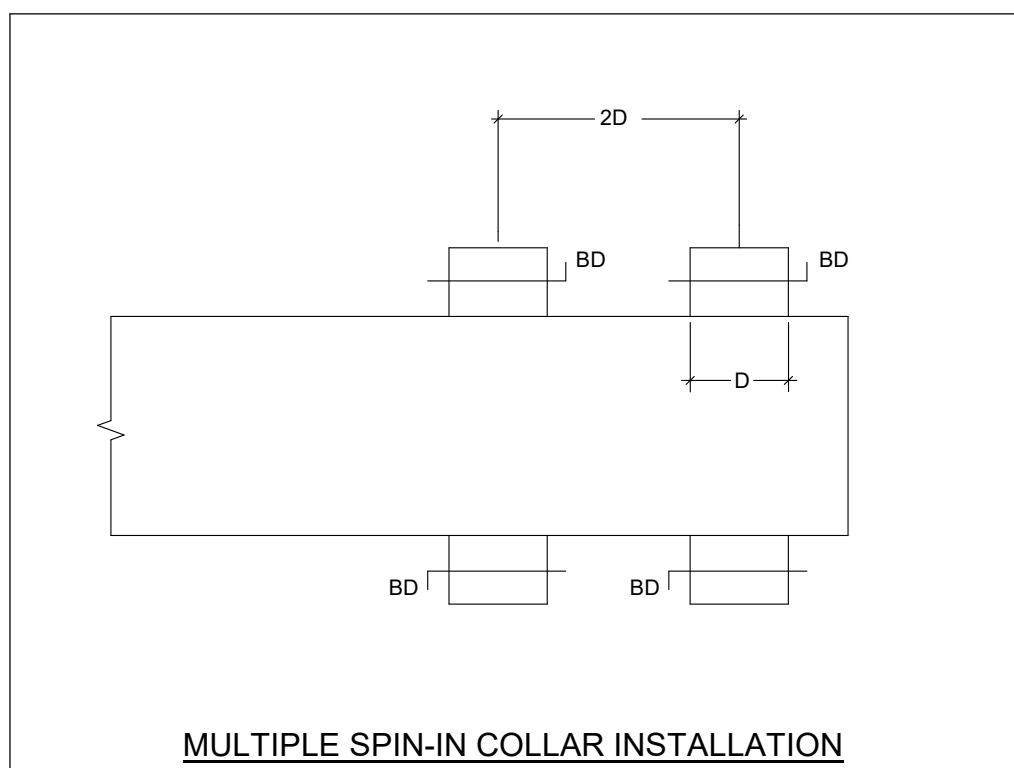
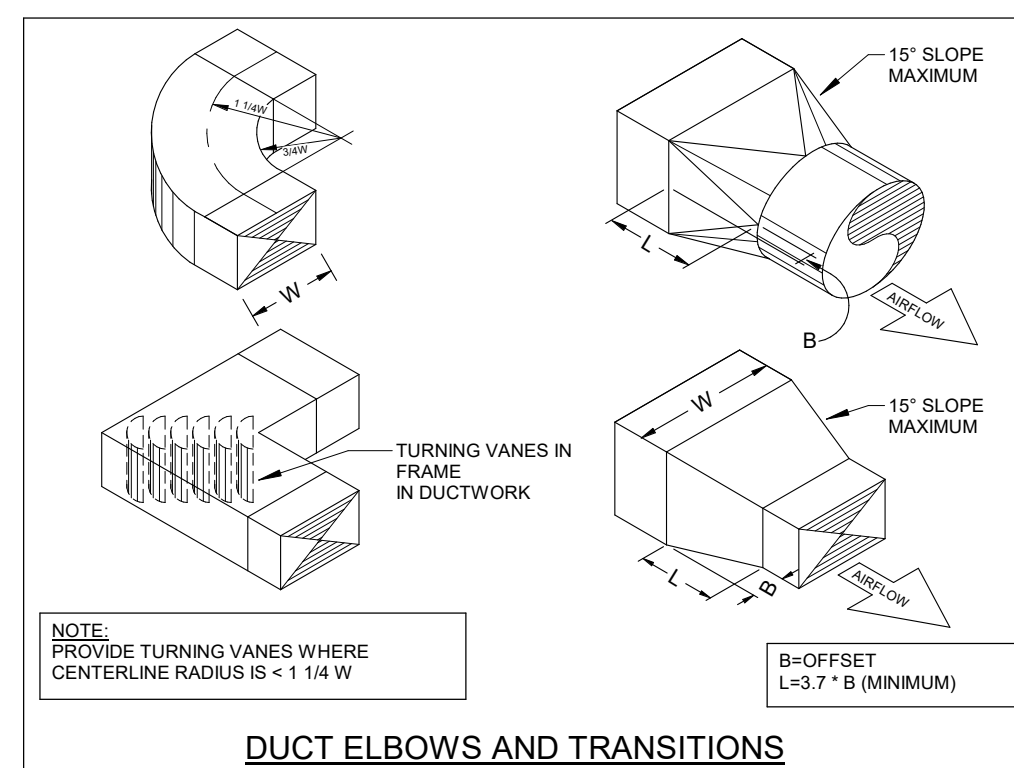


GENERAL NOTES

- COORDINATE ANY DWSJ BRIDGING RELOCATION OR REMOVAL/REPLACEMENT WITH THE GENERAL CONTRACTOR. PAY ALL COSTS REQUIRED TO MODIFY BRIDGING FOR INSTALLATION OF DUCTWORK.
- REFER TO M&M AND M&T DRAWINGS FOR THERMOSTAT/SENSORS NOT INDICATED ON THIS DRAWING.
- REFER TO ARCHITECTURAL CEILING PLANS FOR GRILLES/OFFUSERS LOCATIONS. COORDINATE FINAL LOCATION ON SITE.
- WHERE DUCTWORK PENETRATES CORRIDOR WALL, CENTER DUCT(S) BETWEEN CWS.

SPECIFIC NOTES

- A. MAINTAIN MINIMUM CLEARANCE FOR HEAT PUMP AS PER MANUFACTURER'S RECOMMENDATIONS.
- B. 300x200 OPENING ON BOTH SIDES.
- C. 600x300 OPENING ON BOTH SIDES.
- D. 800x300 OPENING ON BOTH SIDES.
- E. 300x250 OPENING ON BOTH SIDES.
- F. 300x300 TRANSFER DUCT.
- G. 450x300 OPENING ON BOTH SIDES.
- H. 600x350 OPENING ON BOTH SIDES.
- I. 450x350 TRANSFER DUCT.



NO.	DESCRIPTION	DATE
11	ISSUED FOR TENDER	26.01.13
9	RE-ISSUED FOR PERMIT	25.04.08
8	ISSUED FOR PERMIT & TENDER	24.03.04
7	ISSUED FOR TENDER	24.01.16
6	ISSUED FOR PERMIT	23.12.15
5	ISSUED FOR 90% REVIEW	23.12.07
4	ISSUED FOR 90% REVIEW	23.11.24
3	ISSUED FOR 90% REVIEW	23.10.30
2	ISSUED FOR 90% REVIEW	23.10.04
1	ISSUED FOR 75% REVIEW	23.10.04

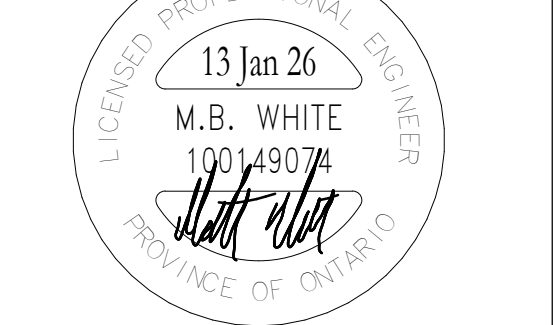
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OAKVILLE #5 PUBLIC SCHOOL

3480 PRESERVE DRIVE, OAKVILLE, ON

LEGAL DESCRIPTION

BLOCK XX
REGISTERED PLAN XXXXX
TOWN OF OAKVILLE
REGION OF HALTON

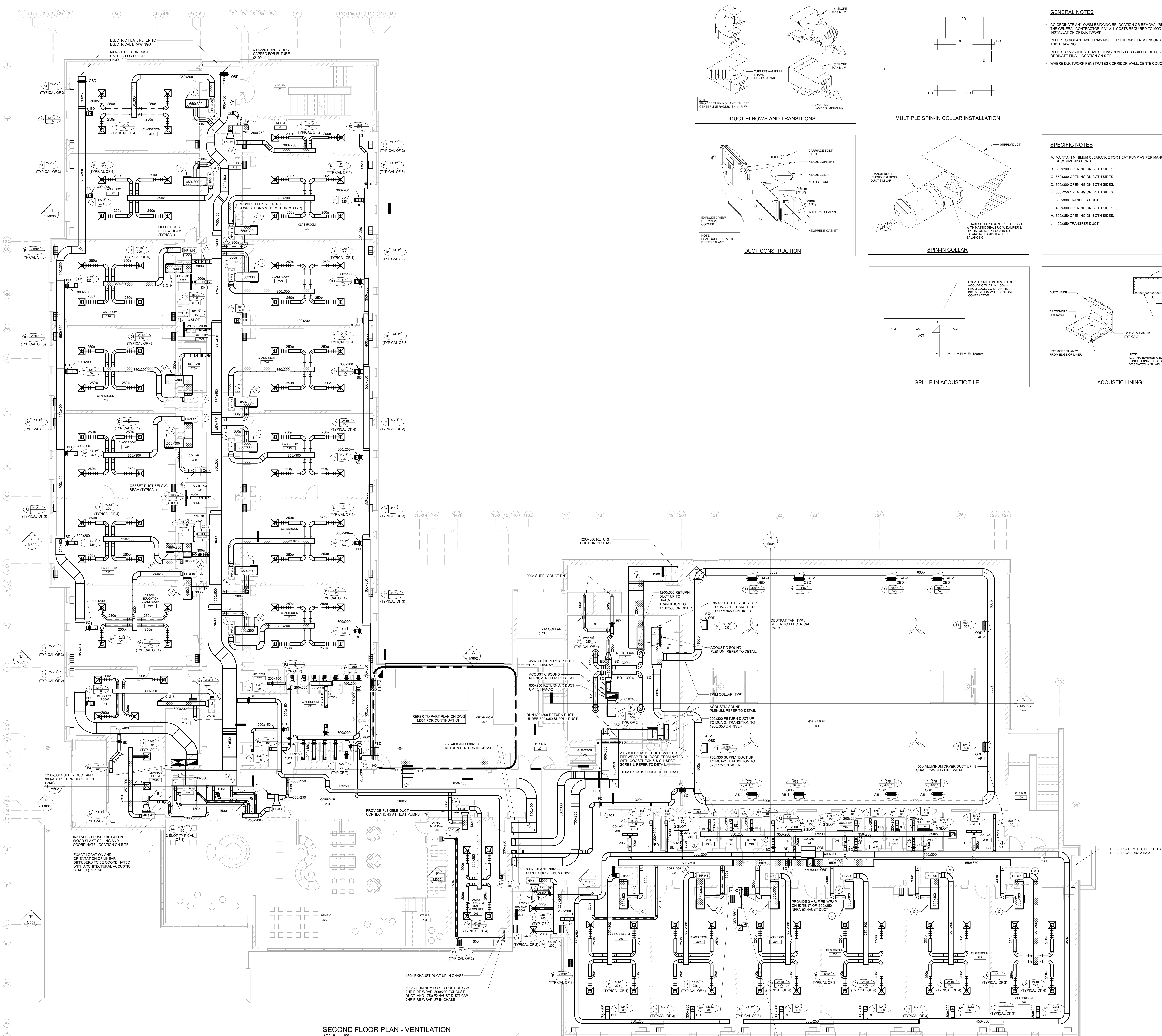
MALTON DISTRICT SCHOOL BOARD
LAW SINGHTON EDUCATION CENTRE
1050 QUELPH LINE
BURLINGTON, ON, L7R 5Z2
TEL: (905) 335-3883
FAX: (905) 335-3882

SECOND FLOOR PLAN - VENTILATION

HOSSACK & ASSOCIATES ARCHITECTS

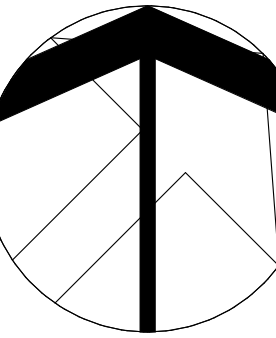
DEI
Consulting Engineers

MECHANICAL	ELECTRICAL	AQUATIC
SCALE	PROJECT	
DA	22383	
SEPT 2023		
DRAWN	APPE	DRAWING
CHECKED	SM	M402
PRINT DATE	2028-01-14 9:27:55 AM	
REVIT FILE	T:\07171712\02\Revit\RVT	



SECOND FLOOR PLAN - VENTILATION

SCALE: 1:100

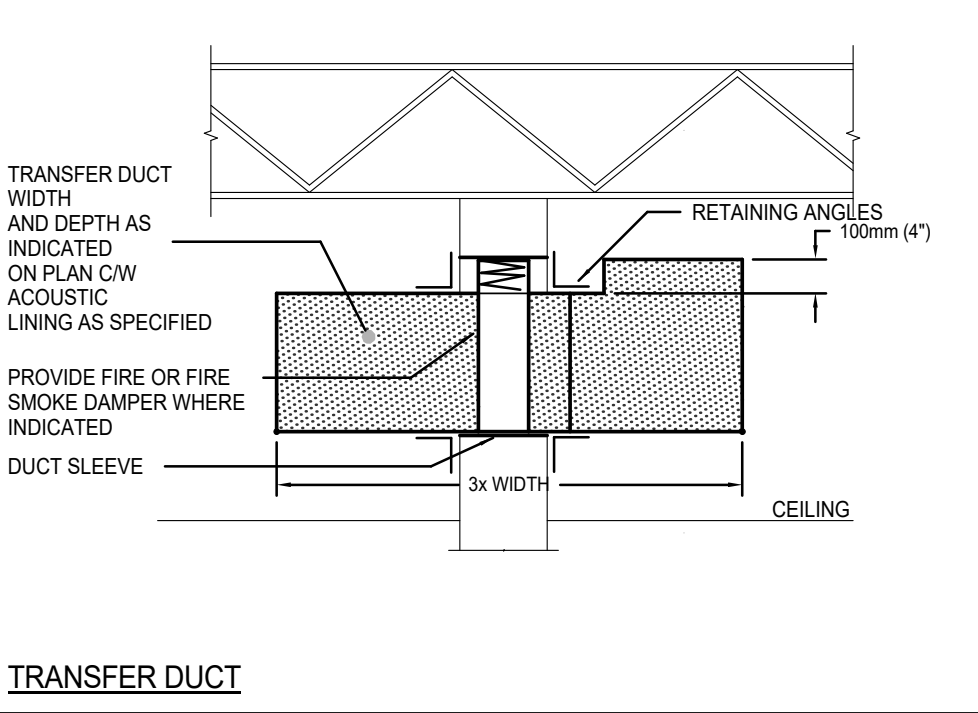


GENERAL NOTES

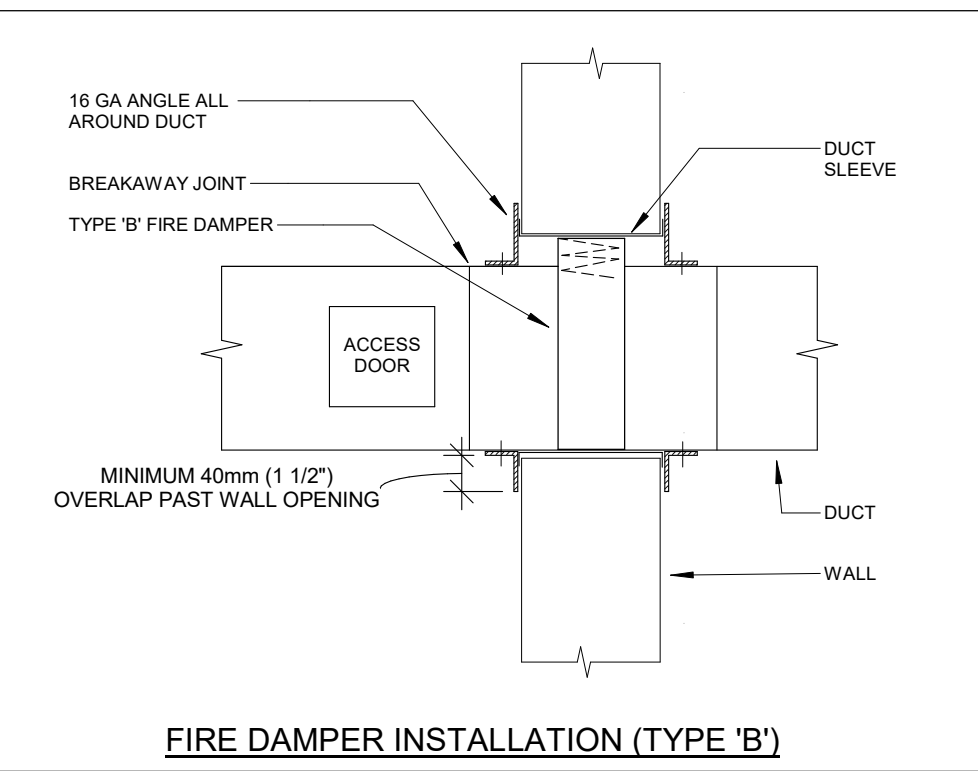
- CO-ORDINATE ANY DWS BRIDGING RELOCATION OR REMOVAL/REPLACEMENT WITH THE GENERAL CONTRACTOR. PAY ALL COSTS REQUIRED TO MODIFY BRIDGING FOR INSTALLATION OF DUCTWORK.
- REFER TO M&M AND M&T DRAWINGS FOR THERMOSTAT/SENSORS NOT INDICATED ON THIS DRAWING.
- REFER TO ARCHITECTURAL CEILING PLANS FOR GRILLES/DIFFUSERS LOCATIONS. CO-ORDINATE FINAL LOCATION ON SITE.
- WHERE DUCTWORK PENETRATES CORRIDOR WALL, CENTER DUCT(S) BETWEEN DWS.

SPECIFIC NOTES

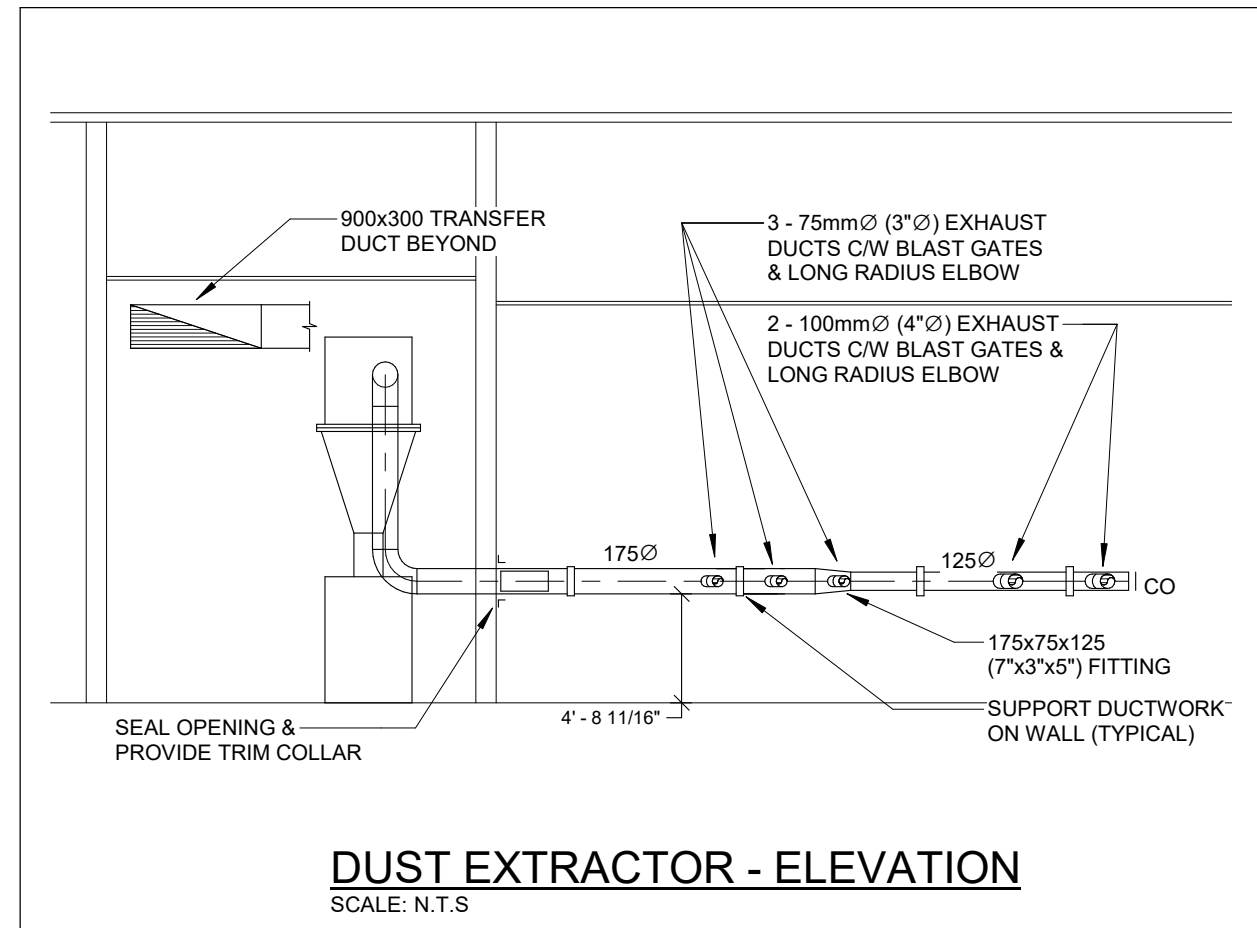
- A. MAINTAIN MINIMUM CLEARANCE FOR HEAT PUMP AS PER MANUFACTURERS RECOMMENDATIONS.
- B. 300x200 OPENING ON BOTH SIDES.
- C. 650x300 OPENING ON BOTH SIDES.
- D. 600x300 OPENING ON BOTH SIDES.
- E. 300x250 OPENING ON BOTH SIDES.
- F. 300x300 TRANSFER DUCT.
- G. 450x300 OPENING ON BOTH SIDES.
- H. 650x300 OPENING ON BOTH SIDES.
- I. 450x350 TRANSFER DUCT.



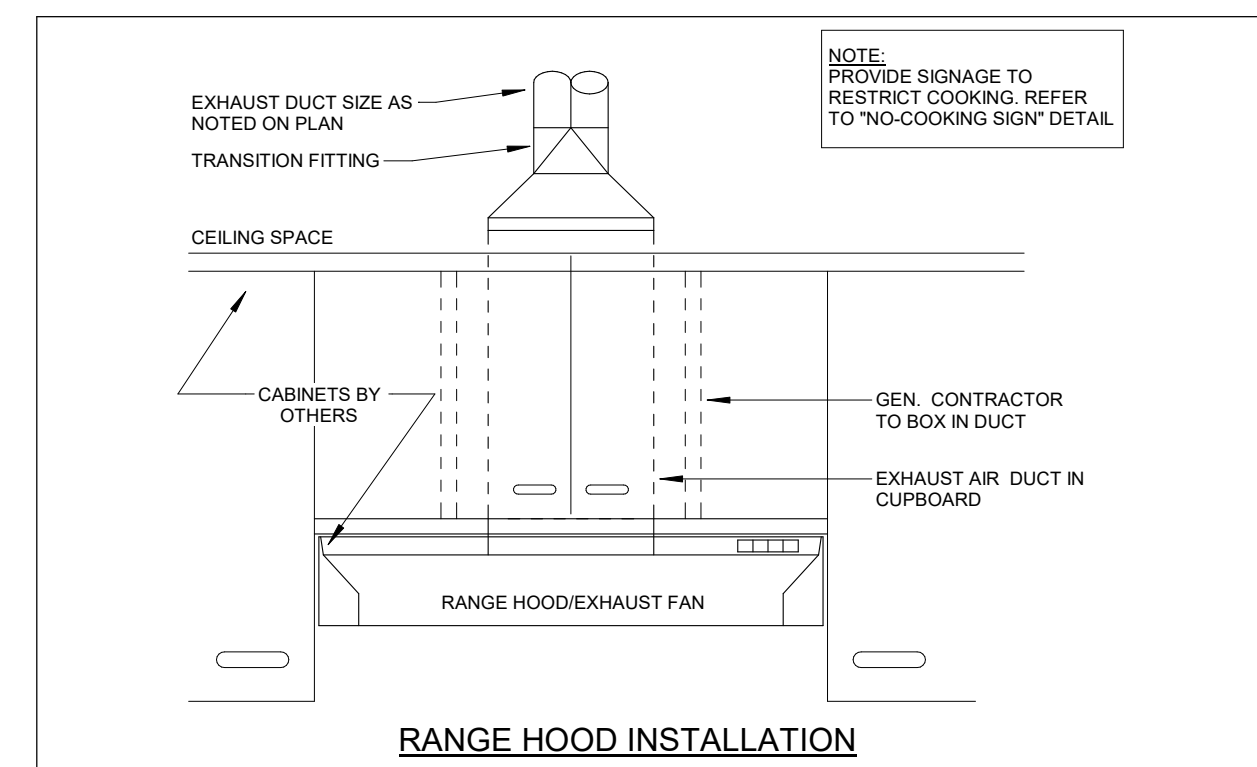
TRANSFER DUCT



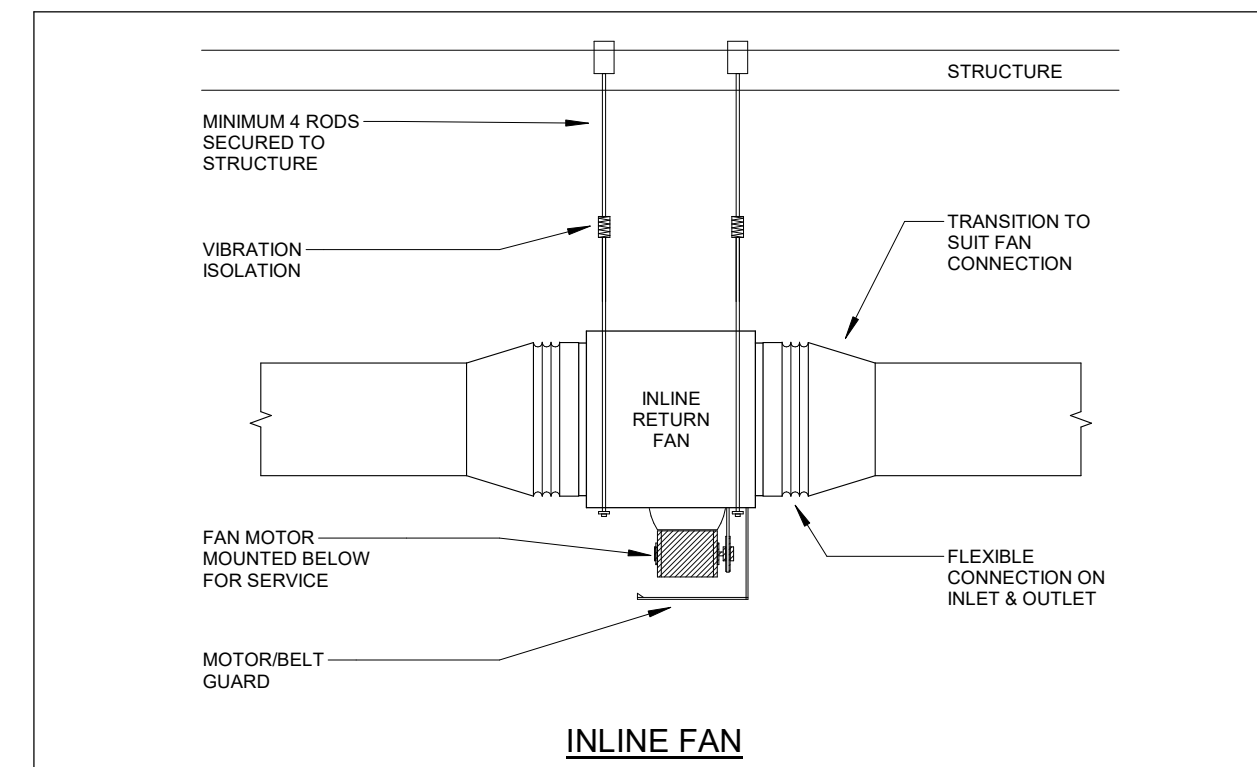
FIRE DAMPER INSTALLATION (TYPE 'B')



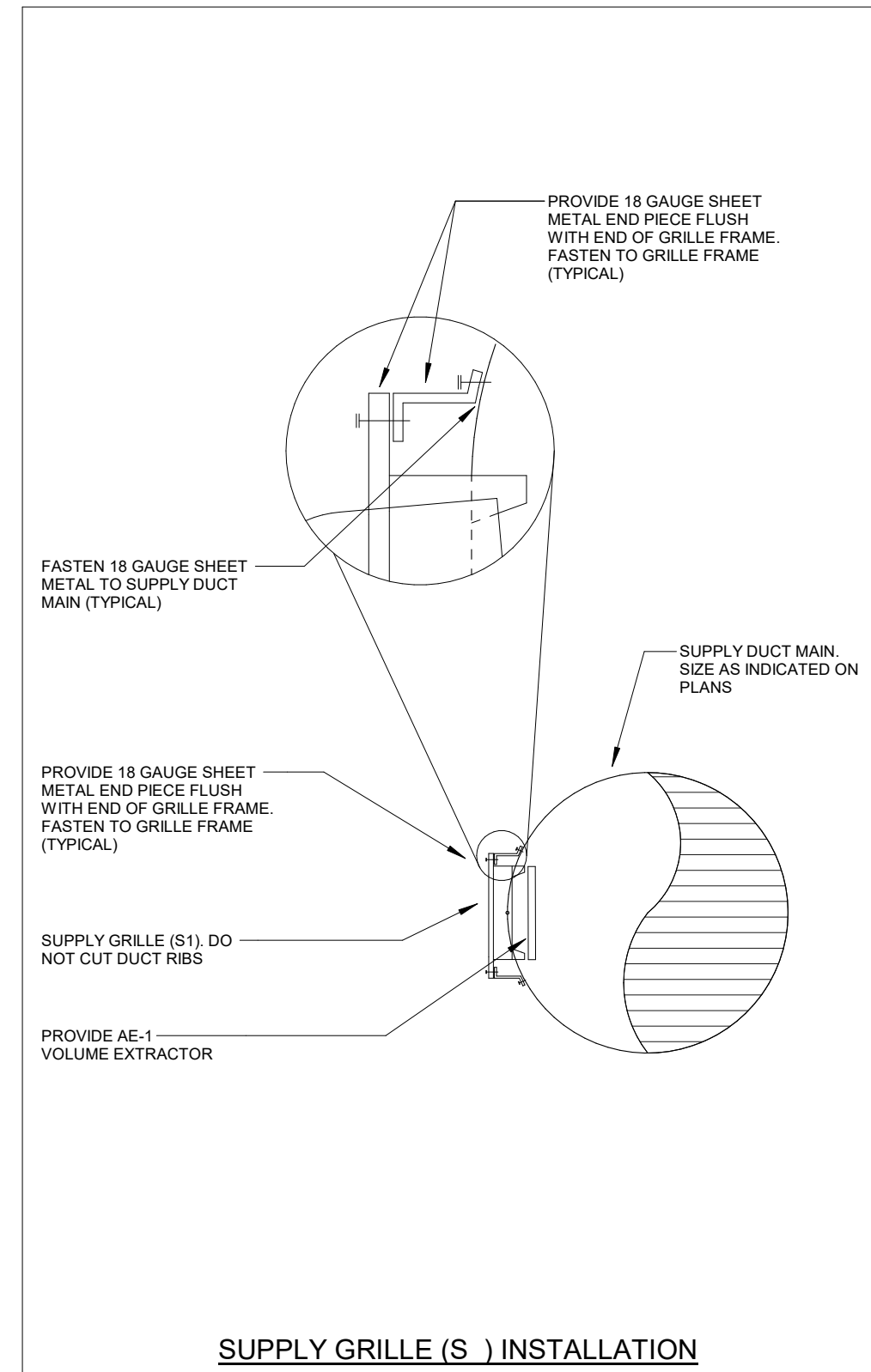
DUST EXTRACTOR - ELEVATION



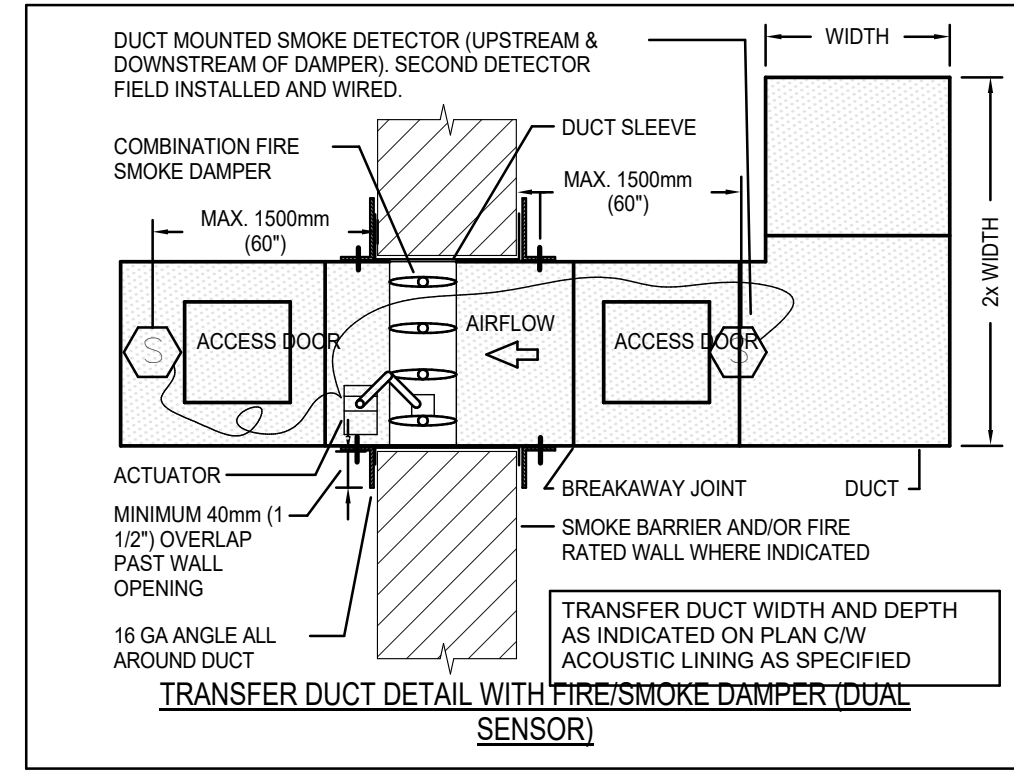
RANGE HOOD INSTALLATION



INLINE FAN



SUPPLY GRILLE(S) INSTALLATION



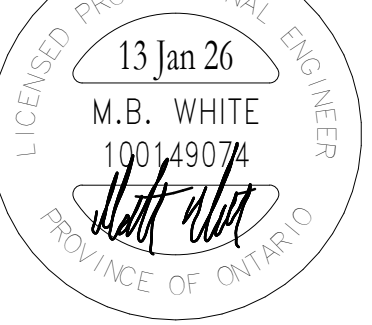
TRANSFER DUCT DETAIL WITH FIRE/SMOKE DAMPER DUAL SENSOR

THIRD FLOOR PLAN - VENTILATION

SCALE: 1:100

11	ISSUED FOR TENDER	26.01.13
9	REVISED FOR PERMIT	25.04.08
8	ISSUED FOR PERMIT & TENDER	24.03.04
7	ISSUED FOR TENDER	24.01.16
6	ISSUED FOR PERMIT	23.12.15
5	ISSUED FOR 90% REVIEW	23.12.07
4	ISSUED FOR 90% REVIEW	23.11.24
3	ISSUED FOR 90% REVIEW	23.10.30
2	ISSUED FOR 90% REVIEW	23.10.13
1	ISSUED FOR 75% REVIEW	23.10.04
NO	DATE	

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OAKVILLE #5 PUBLIC SCHOOL

3480 PRESERVE DRIVE, OAKVILLE, ON

LEGAL DESCRIPTION

BLOCK XX
REGISTERED PLAN XXXXX
TOWN OF OAKVILLE
REGION OF HALTON

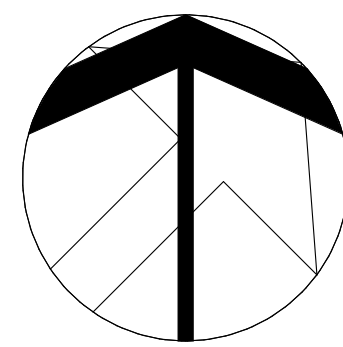
WALTON DISTRICT SCHOOL BOARD
1111 SINGLETON ROAD, SUITE 100
BURLINGTON, ON L7R 5Z2
TEL: (905) 335-3863
FAX: (905) 335-3862

THIRD FLOOR PLAN - VENTILATION

HOSSACK & ASSOCIATES ARCHITECTS

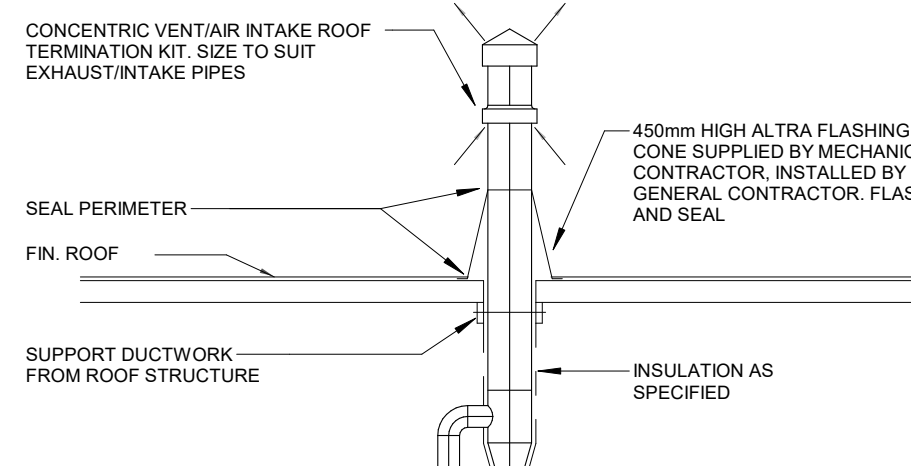


MECHANICAL ELECTRICAL / AQUATIC	PROJECT
SCALE: As Indicated	22383
DATE: SEPT 2023	DRAWN: AP/IE
CHECKED: SM	M403
REVIT FILE: T:\01717123\02\Revit\RVT	



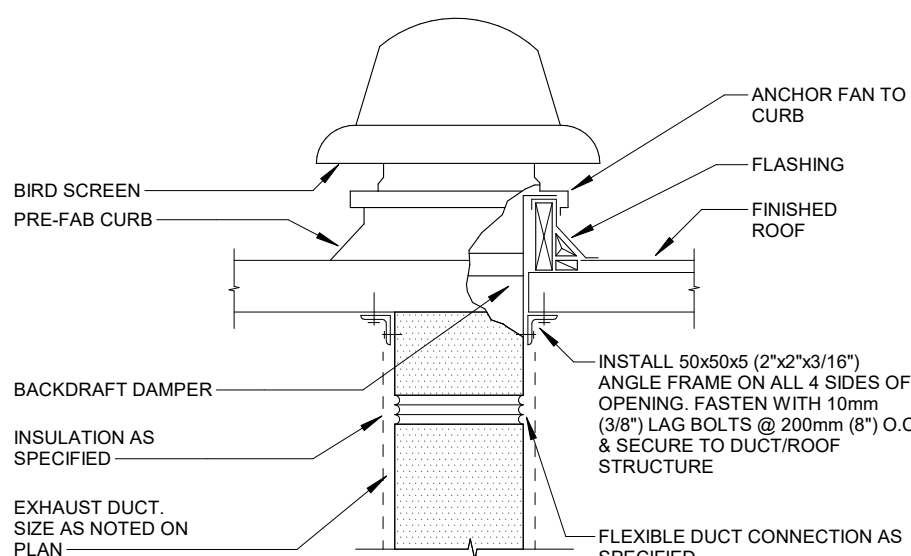
GENERAL NOTES

- MAINTAIN MINIMUM 4200mm (14'-0") LATERAL DISTANCE BETWEEN SANITARY AND/OR PRV VENTS AND ALL AIR INTAKE/EXHAUST OPENINGS.
- ALL EQUIPMENT SHALL BE MINIMUM 3.0m FROM EDGE OF ROOF.

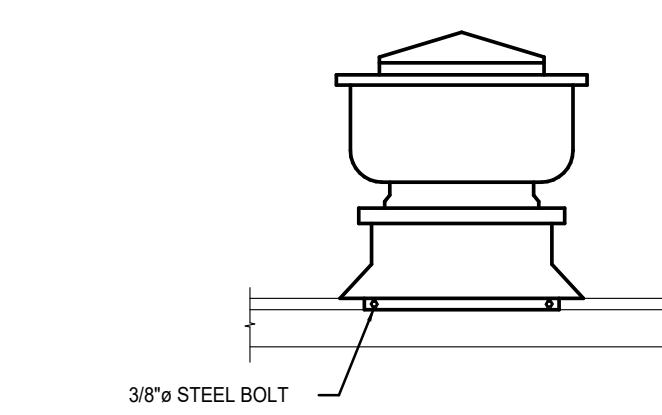


NOTE:
USE EXTENSION KIT NECESSARY TO ACHIEVE 300mm CLEARANCE ABOVE FINISH LEVEL.

DOMESTIC WATER HEATER ROOF TERMINATION



EXHAUST FAN ON ROOF

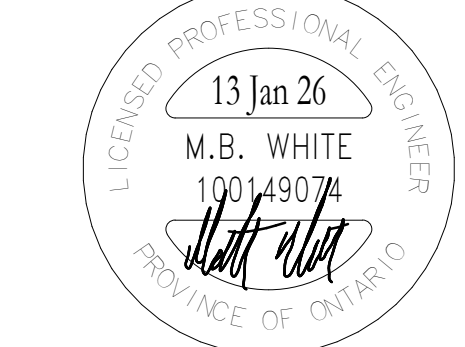


INSTALL ON EACH SIDE OF THE EQUIPMENT
2 x 3/8\"/>

SEISMIC MEASURES FOR EXHAUST FAN (187lb AND LESS)

NO.	DESCRIPTION	DATE
11	ISSUED FOR TENDER	26.01.13
9	PRE-ISSUED FOR PERMIT	25.04.08
8	ISSUED FOR PERMIT & TENDER	24.03.04
7	ISSUED FOR TENDER	24.01.16
6	ISSUED FOR PERMIT	23.12.15
5	ISSUED FOR 90% REVIEW	23.12.07
4	ISSUED FOR 90% REVIEW	23.11.24
3	ISSUED FOR 90% REVIEW	23.10.30
2	ISSUED FOR 90% REVIEW	23.10.13
1	ISSUED FOR 75% REVIEW	23.10.04
NO.	DATE	

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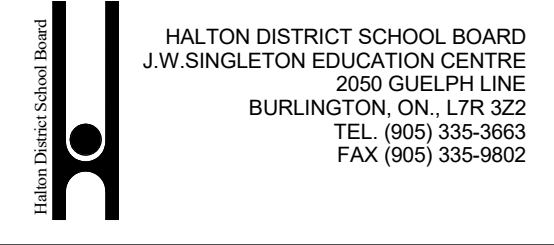


OAKVILLE #5 PUBLIC SCHOOL

3480 PRESERVE DRIVE, OAKVILLE, ON

LEGAL DESCRIPTION

BLOCK XX
REGISTERED PLAN XXXXX
TOWN OF OAKVILLE
REGION OF HALTON

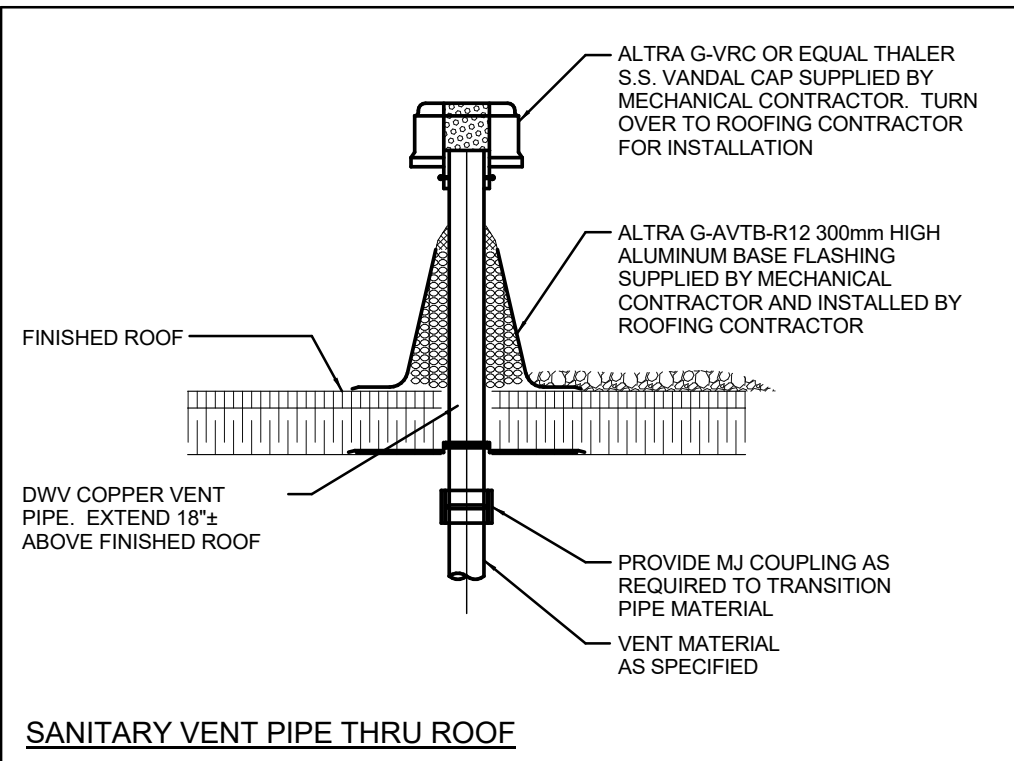


ROOF PLAN & DETAILS

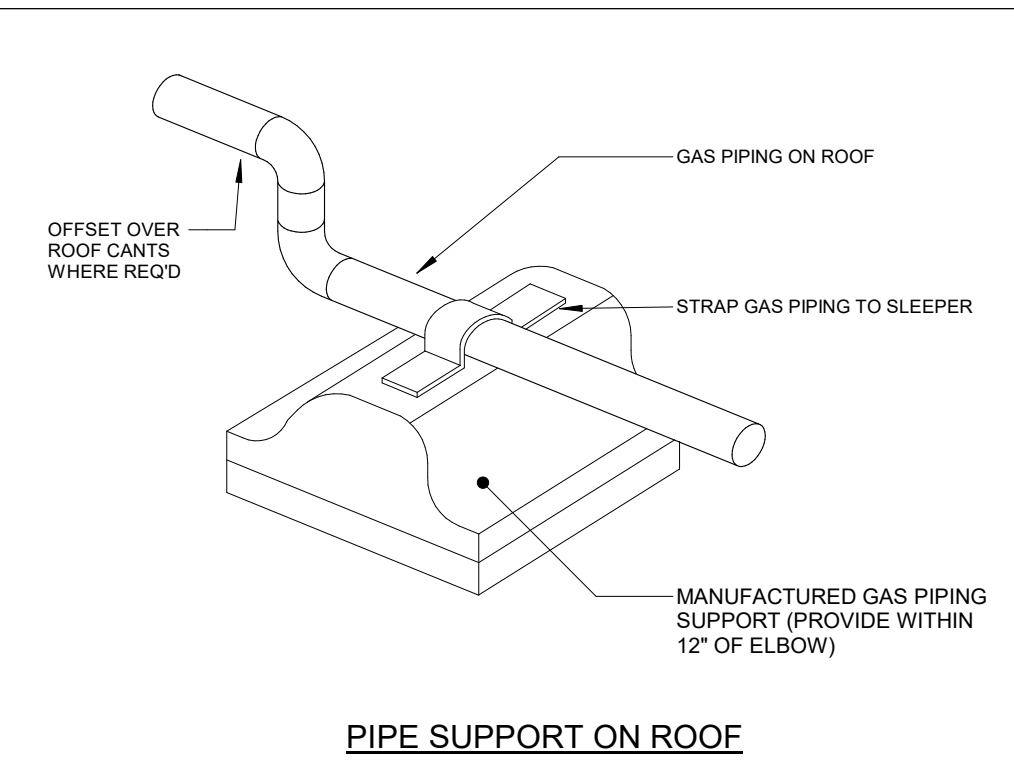
HOSSACK & ASSOCIATES ARCHITECTS



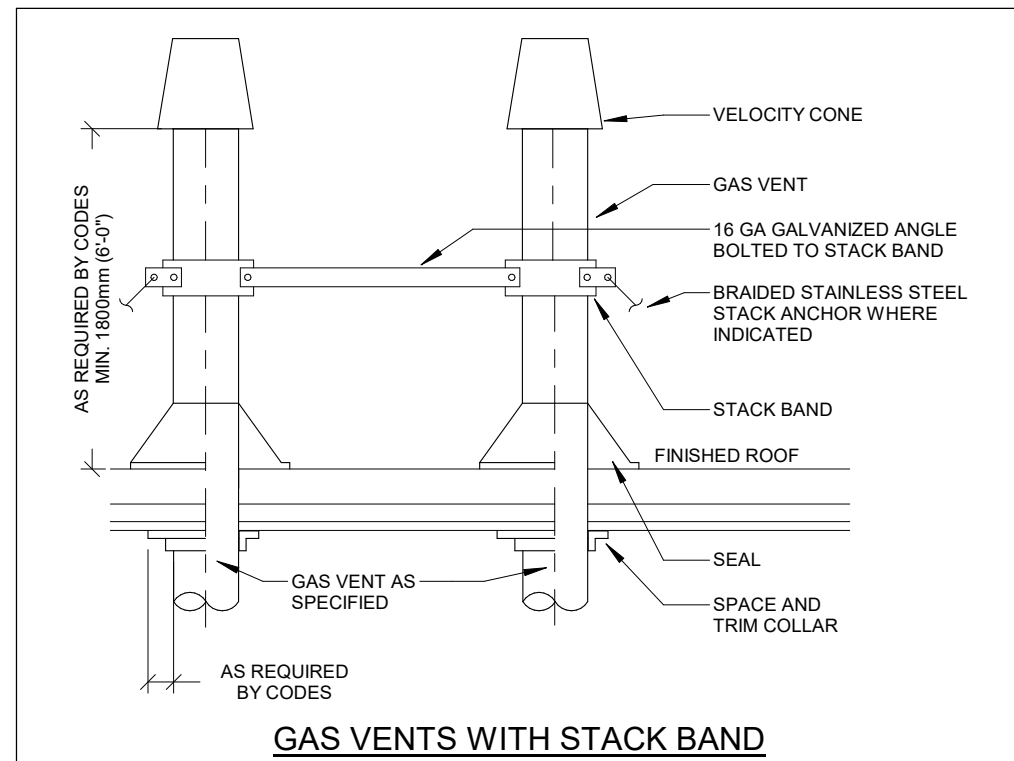
MECHANICAL ELECTRICAL AQUATIC PROJECT	22383
DATE	As Indicated
DATE	SEPT 2023
DRAWN	AP/PE
CHECKED	SM
REVIT FILE	T:\01717123\02\Revit\RYT



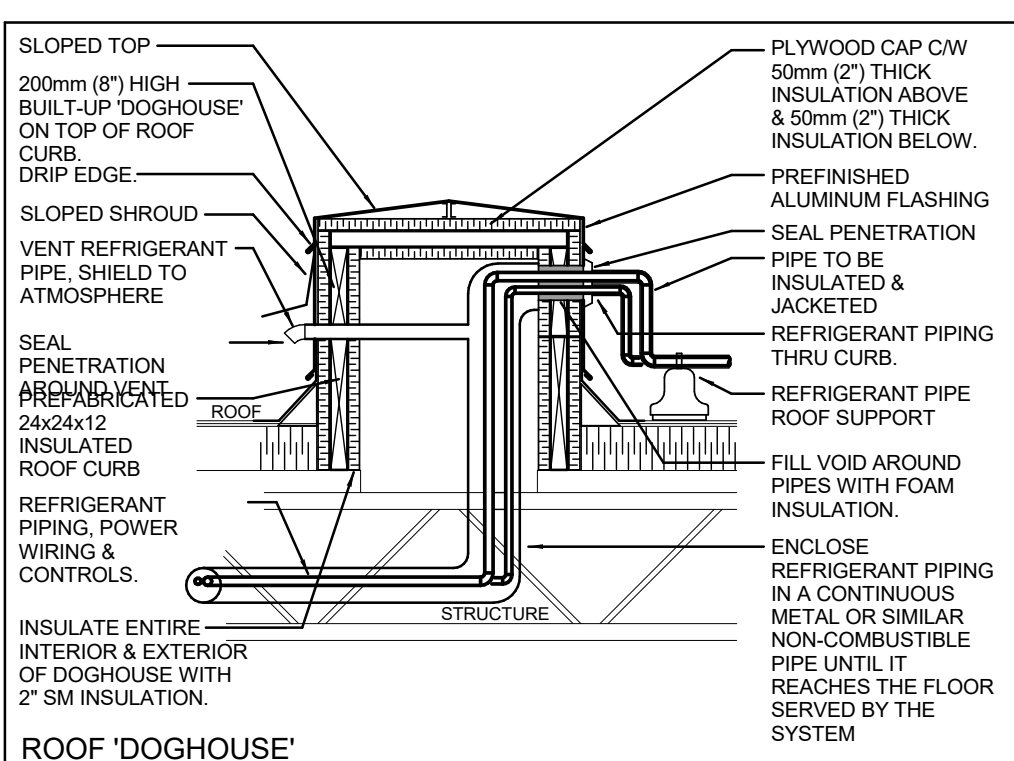
SANITARY VENT PIPE THRU ROOF



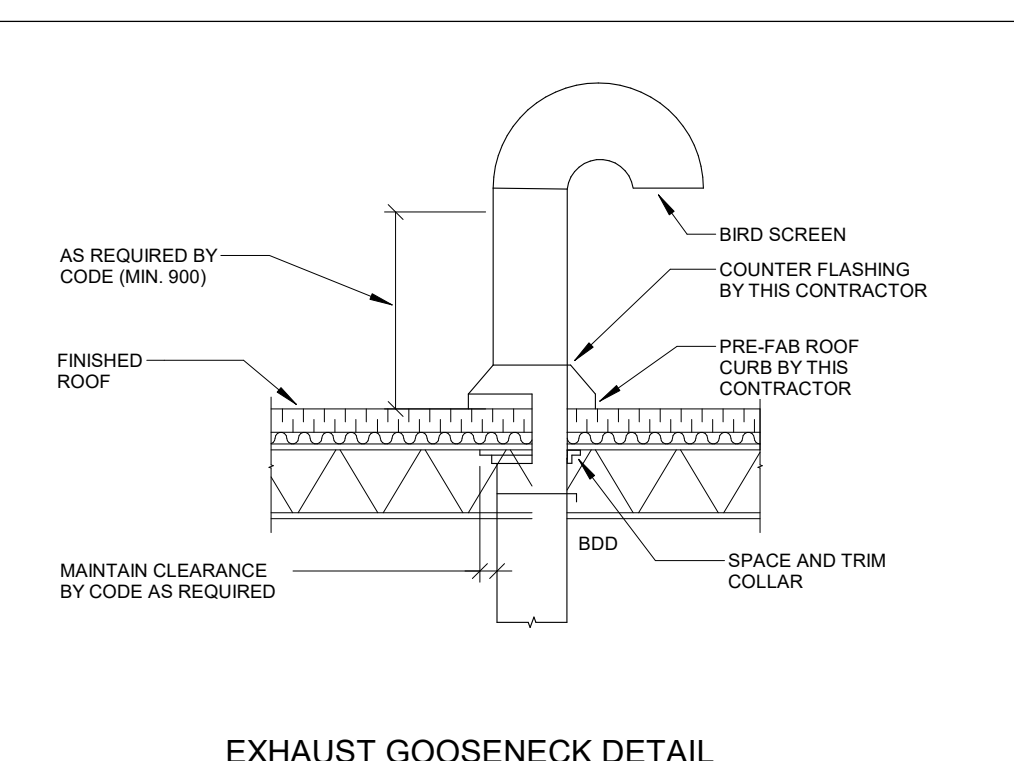
PIPE SUPPORT ON ROOF



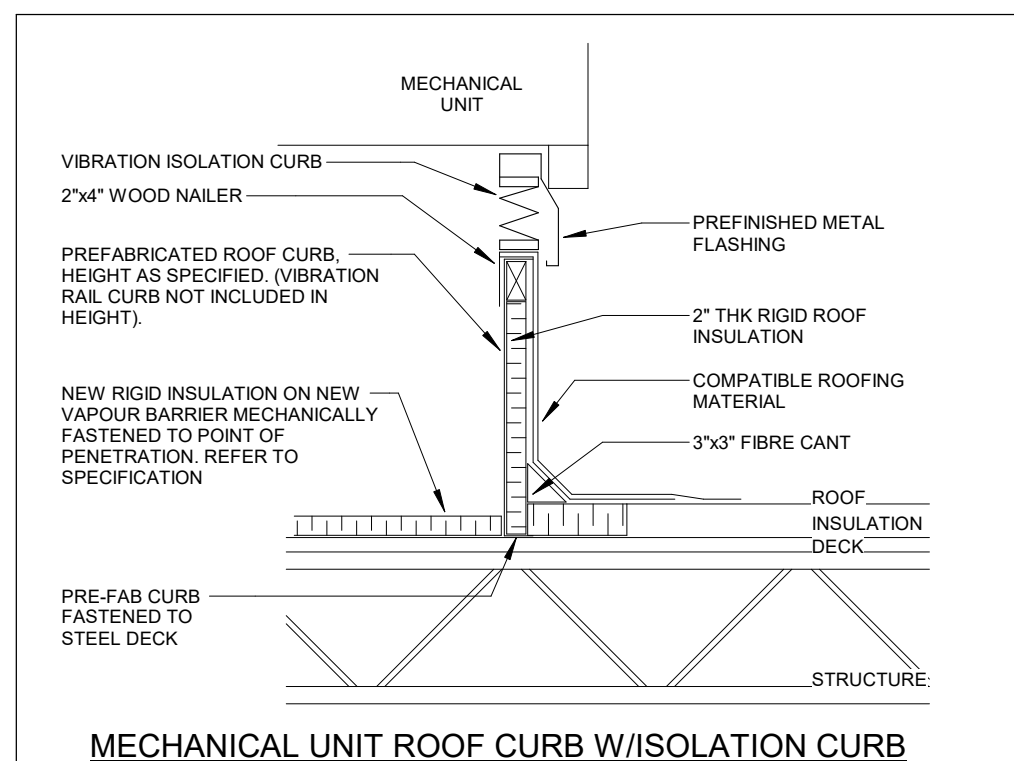
GAS VENTS WITH STACK BAND



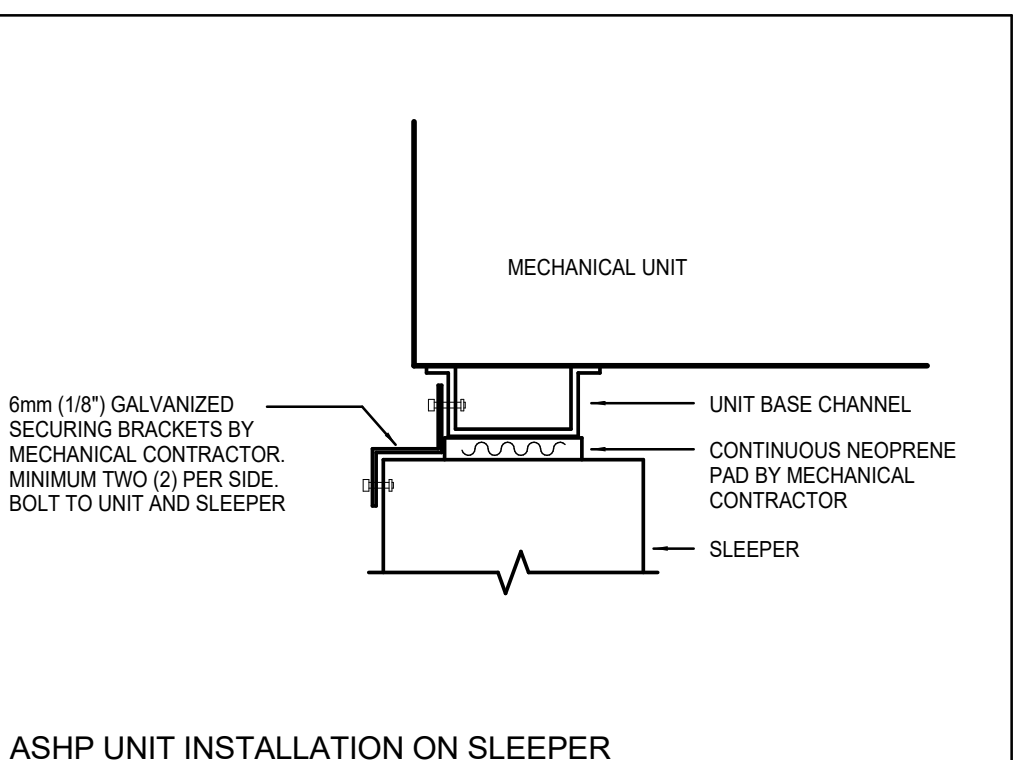
ROOF DOGHOUSE



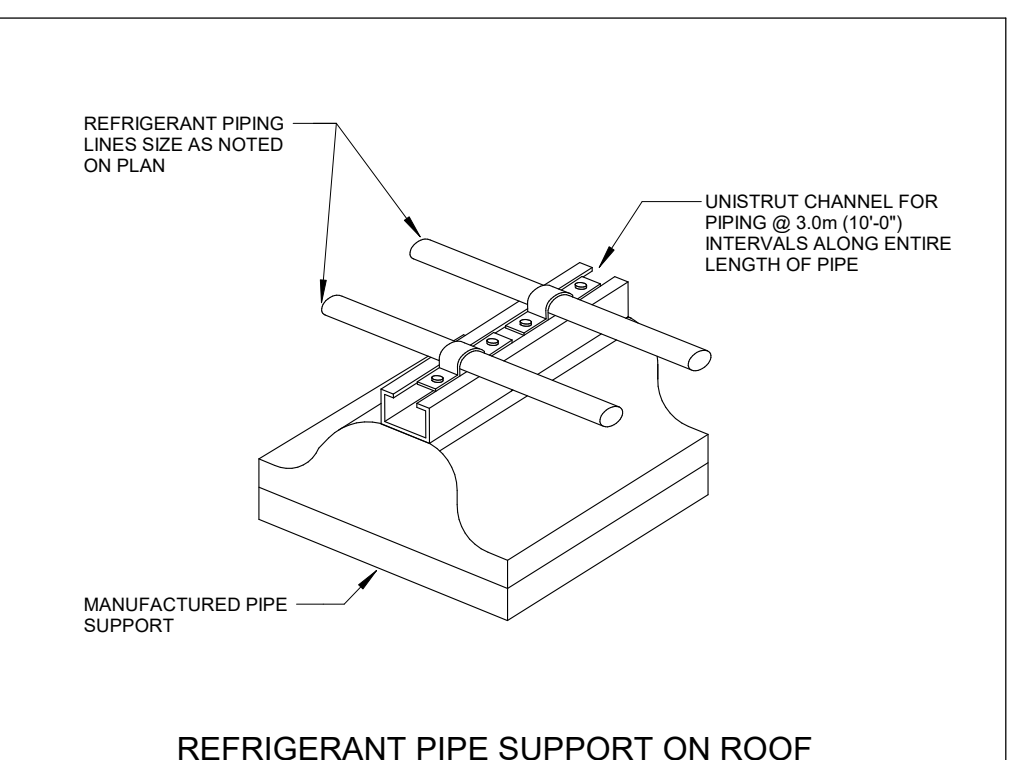
EXHAUST GOOSENECK DETAIL



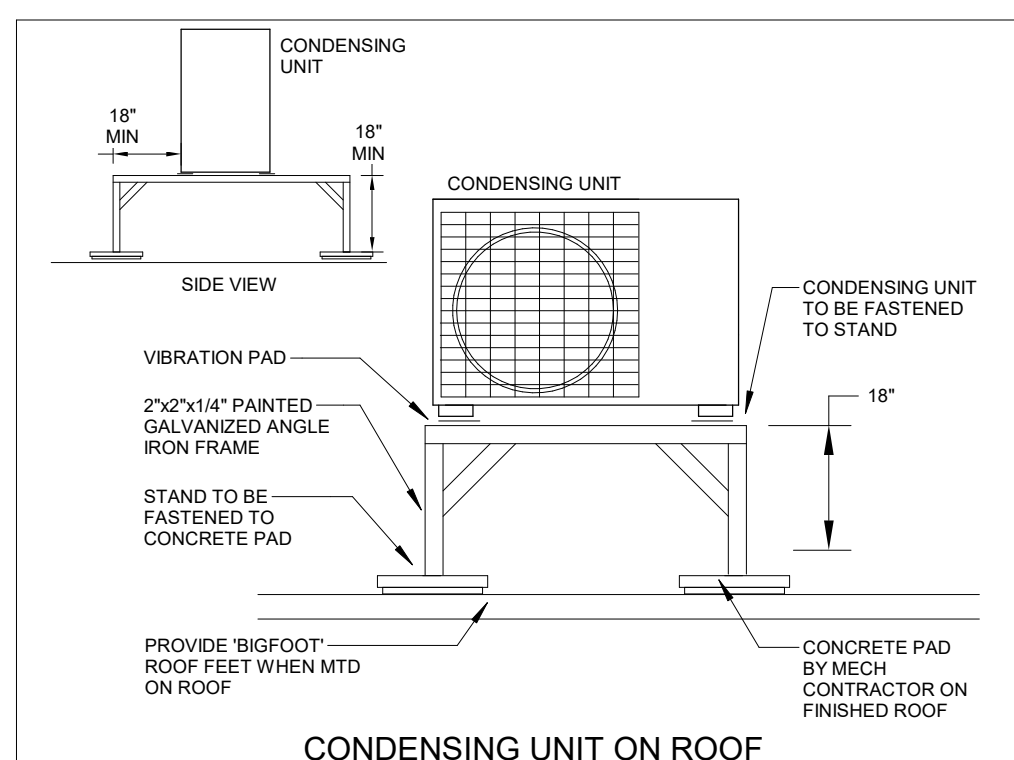
MECHANICAL UNIT ROOF CURB W/ISOLATION CURB



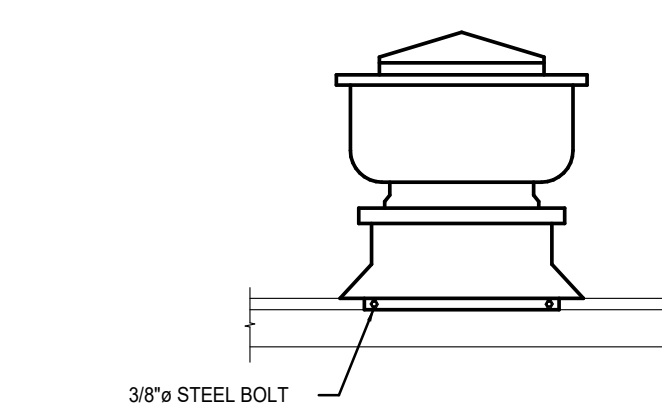
ASHP UNIT INSTALLATION ON SLEEPER



REFRIGERANT PIPE SUPPORT ON ROOF



CONDENSING UNIT ON ROOF

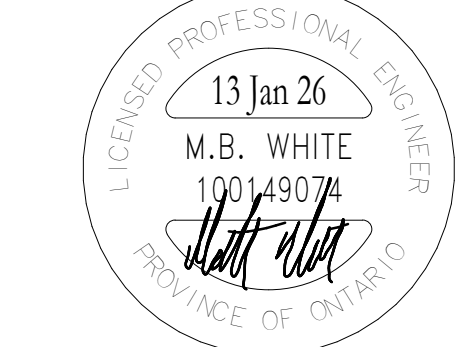


INSTALL ON EACH SIDE OF THE EQUIPMENT
2 x 3/8\"/>

SEISMIC MEASURES FOR EXHAUST FAN (187lb AND LESS)

NO.	DESCRIPTION	DATE
11	ISSUED FOR TENDER	26.01.13
9	PRE-ISSUED FOR PERMIT	25.04.08
8	ISSUED FOR PERMIT & TENDER	24.03.04
7	ISSUED FOR TENDER	24.01.16
6	ISSUED FOR PERMIT	23.12.15
5	ISSUED FOR 90% REVIEW	23.12.07
4	ISSUED FOR 90% REVIEW	23.11.24
3	ISSUED FOR 90% REVIEW	23.10.30
2	ISSUED FOR 90% REVIEW	23.10.13
1	ISSUED FOR 75% REVIEW	23.10.04
NO.	DATE	

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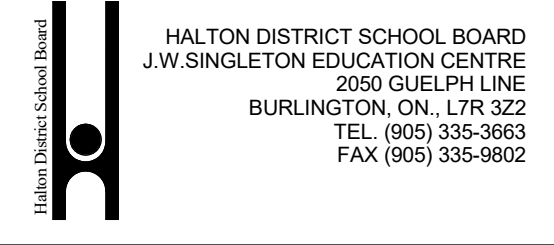


OAKVILLE #5 PUBLIC SCHOOL

3480 PRESERVE DRIVE, OAKVILLE, ON

LEGAL DESCRIPTION

BLOCK XX
REGISTERED PLAN XXXXX
TOWN OF OAKVILLE
REGION OF HALTON

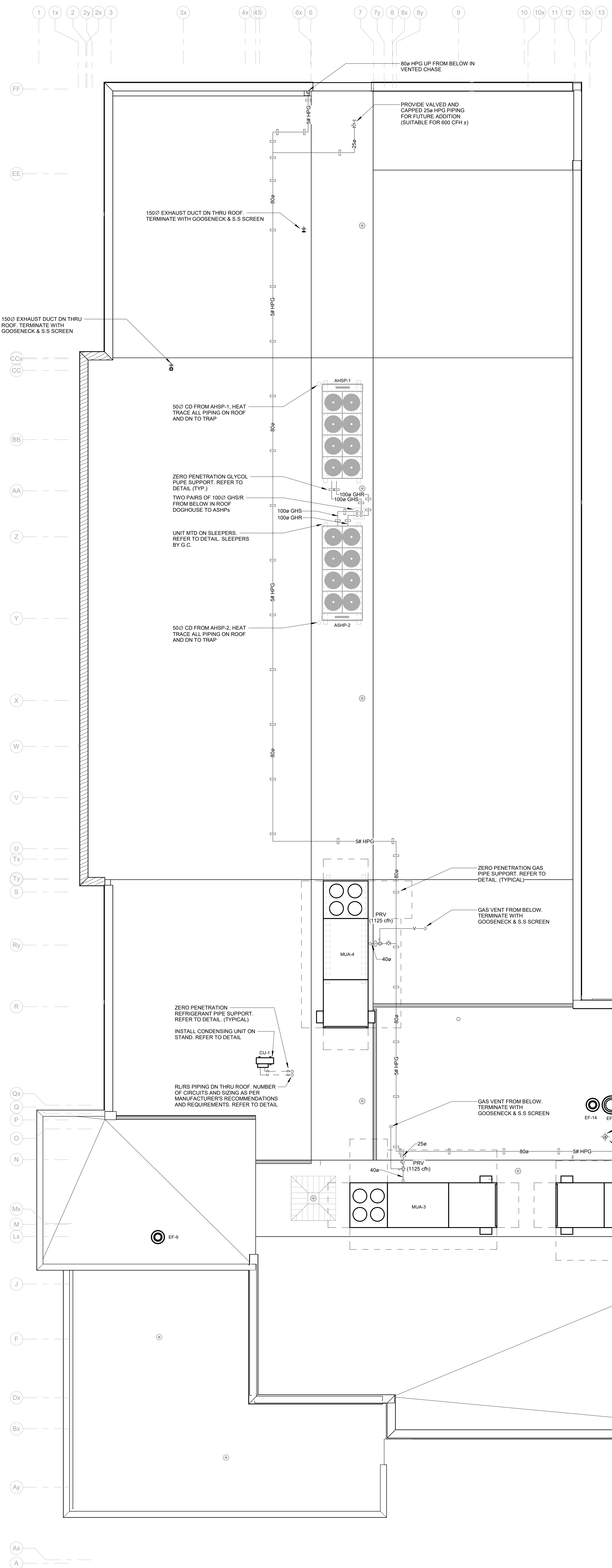


ROOF PLAN & DETAILS

HOSSACK & ASSOCIATES ARCHITECTS

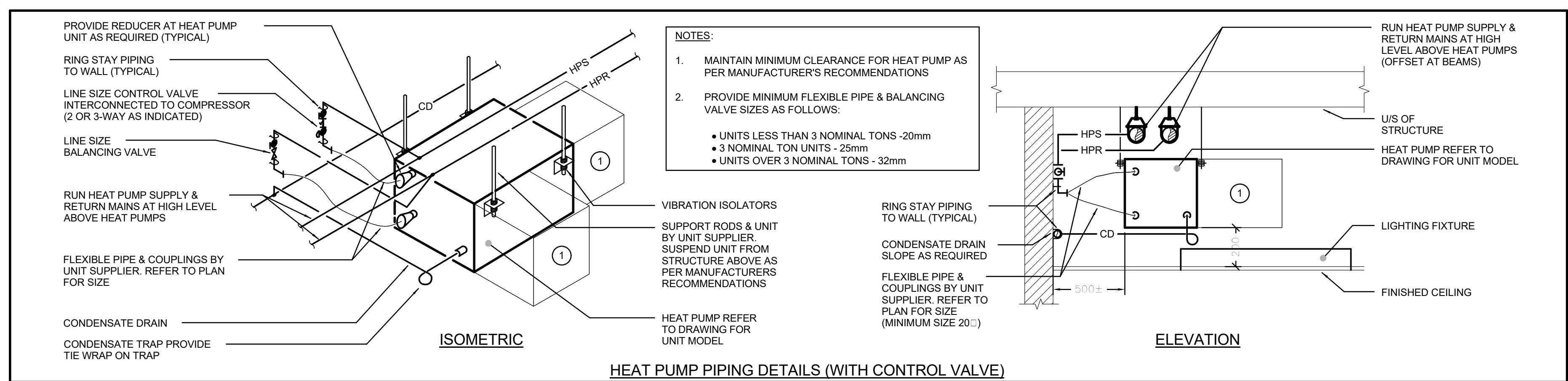
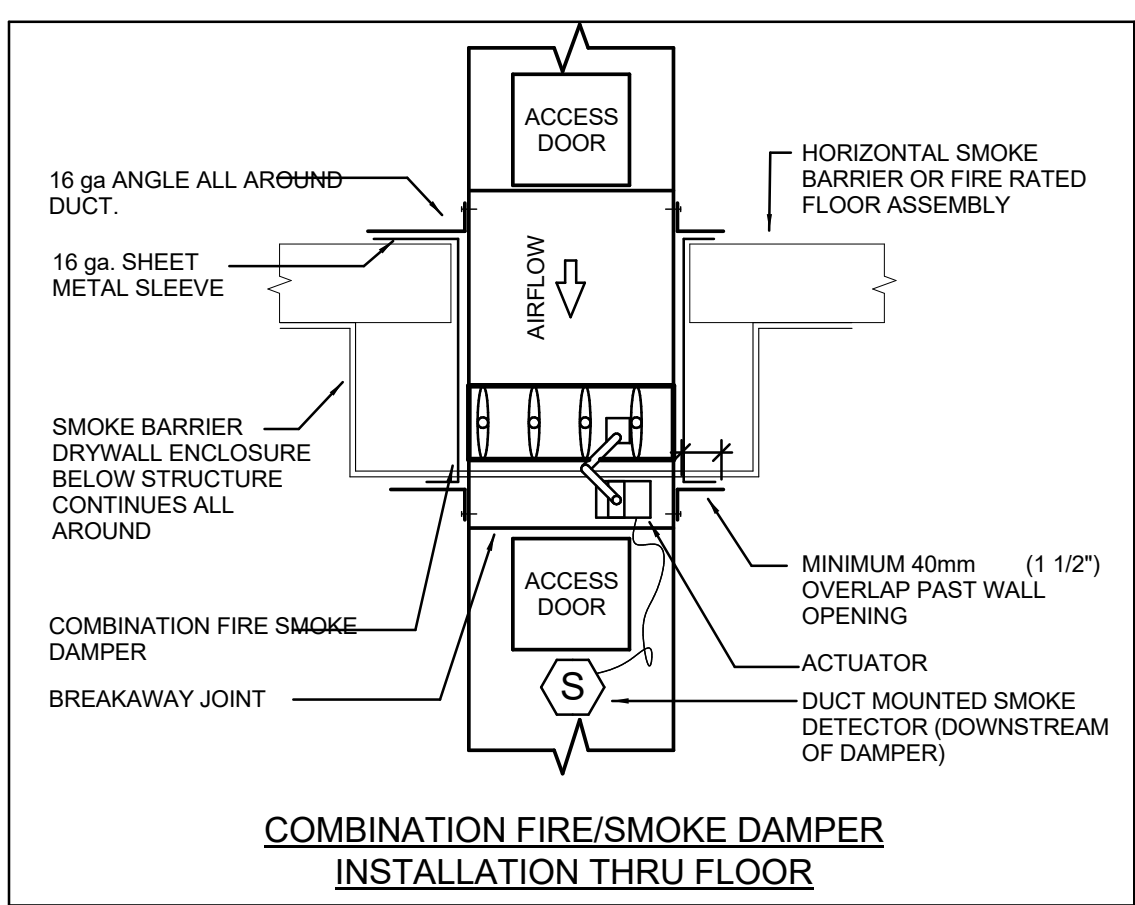
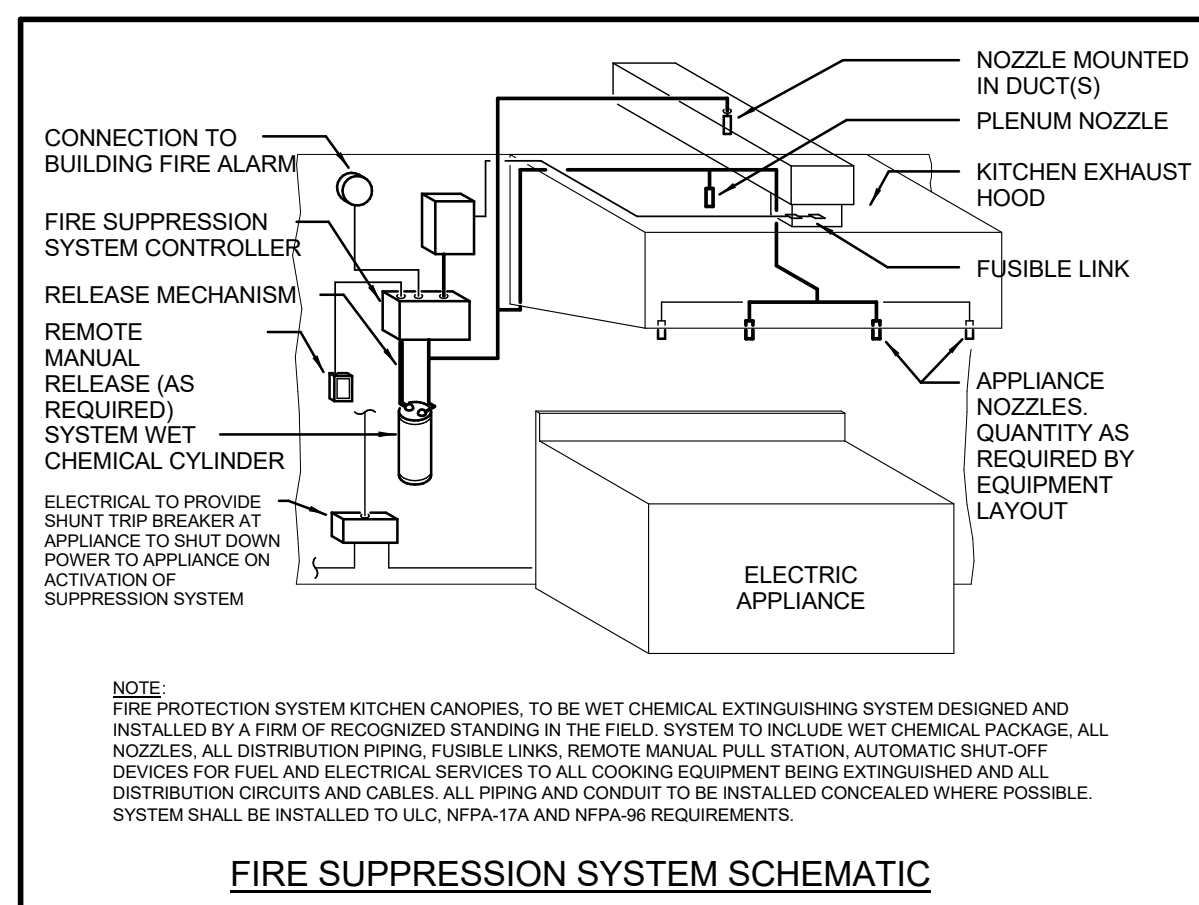
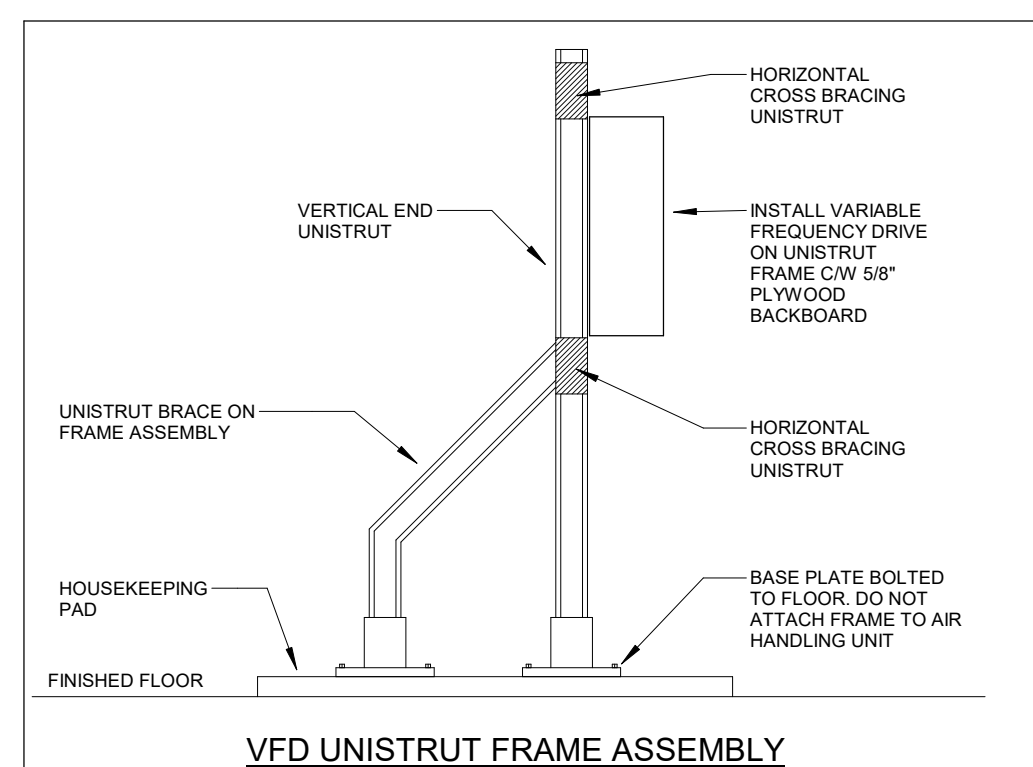
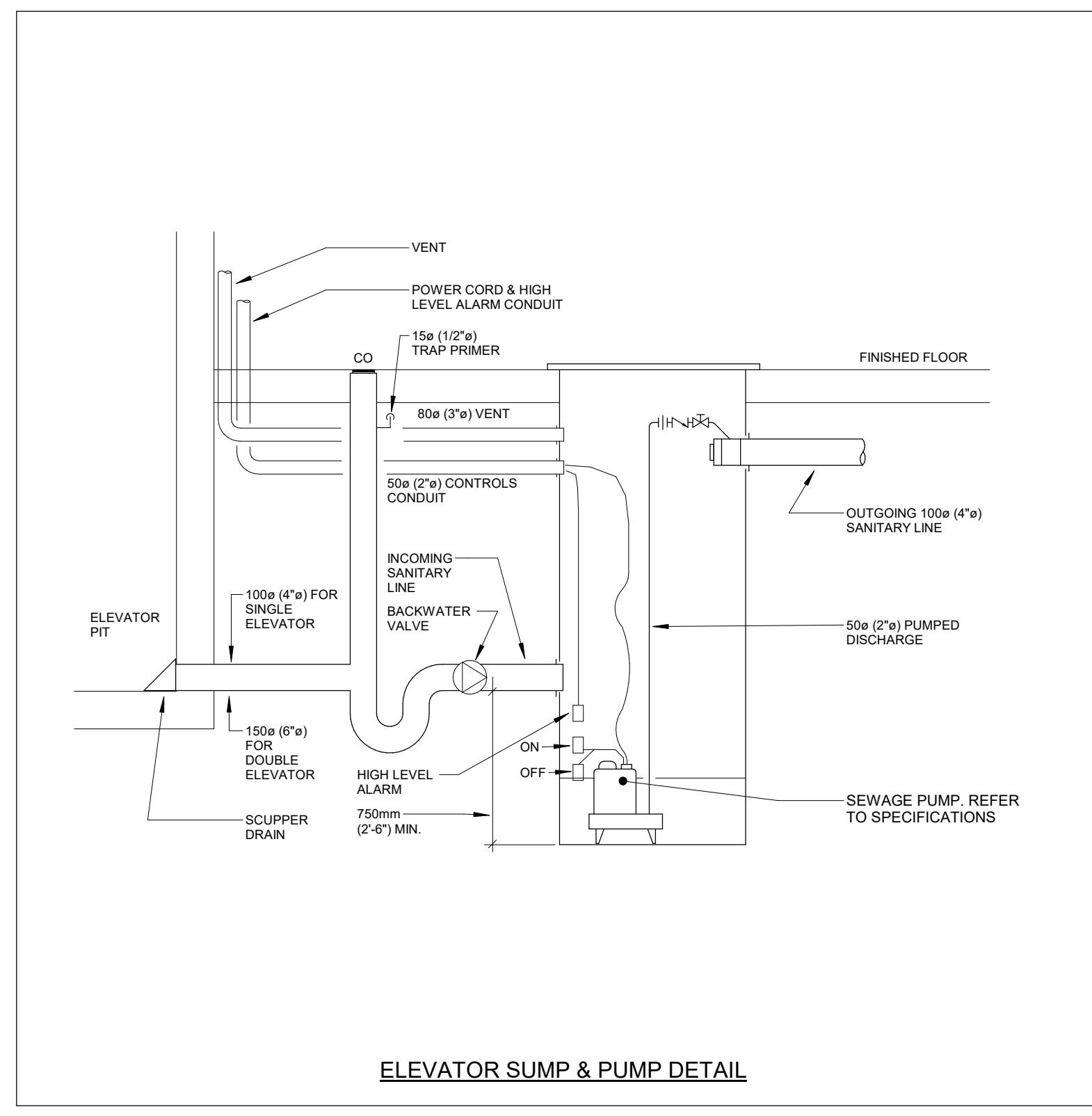
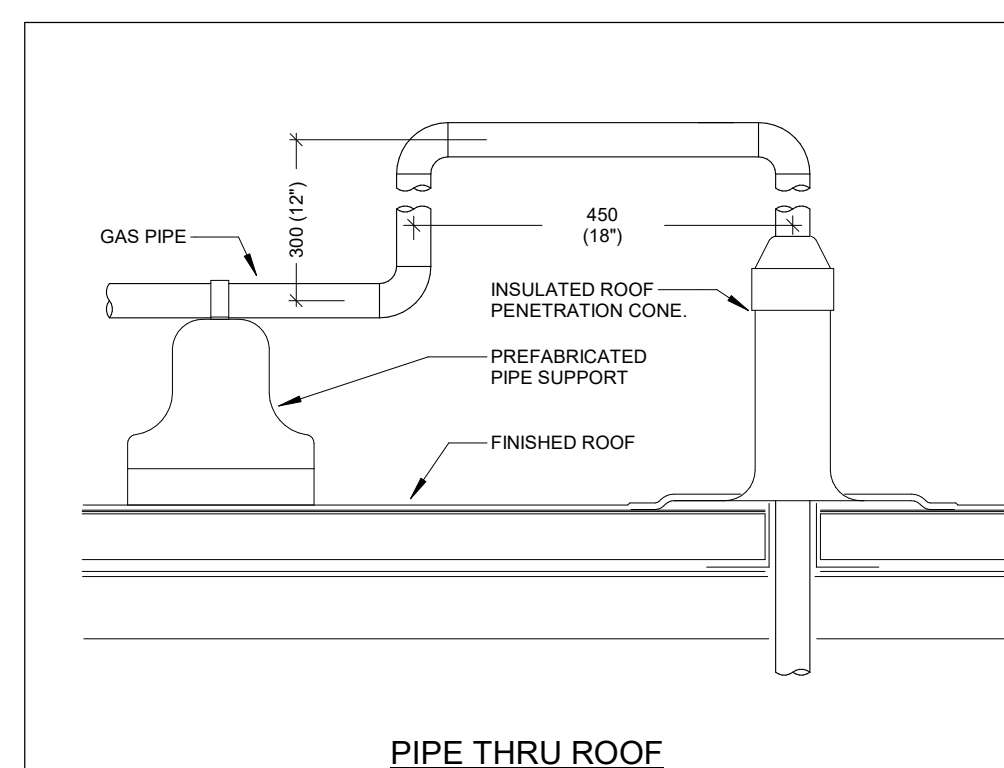
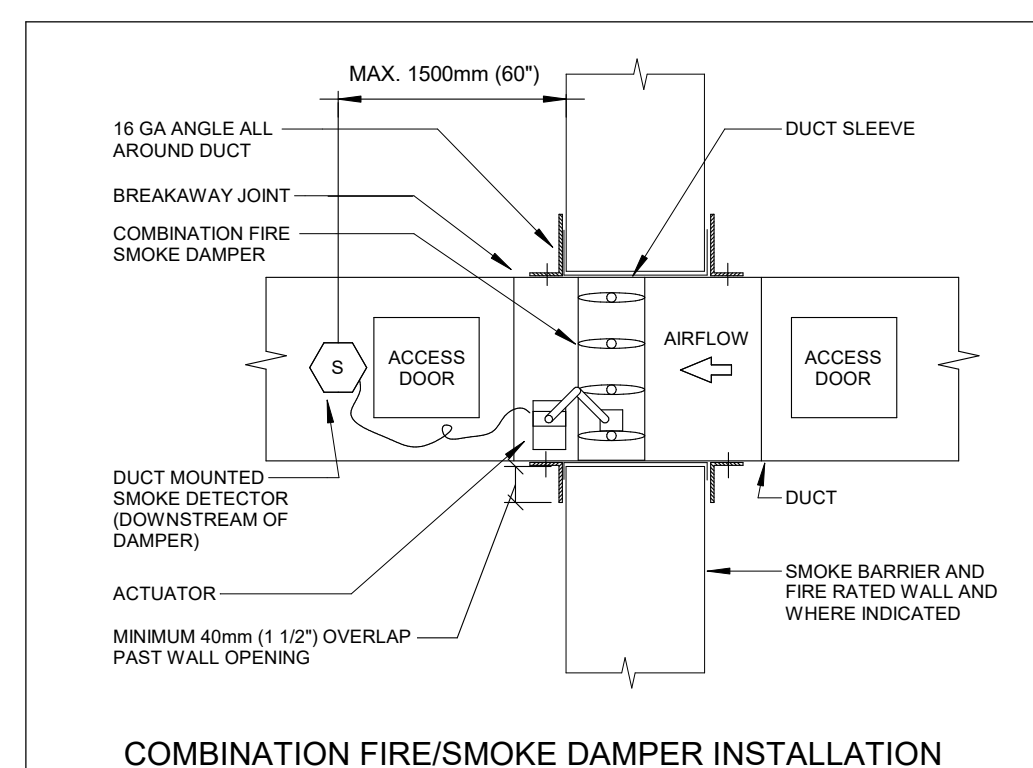
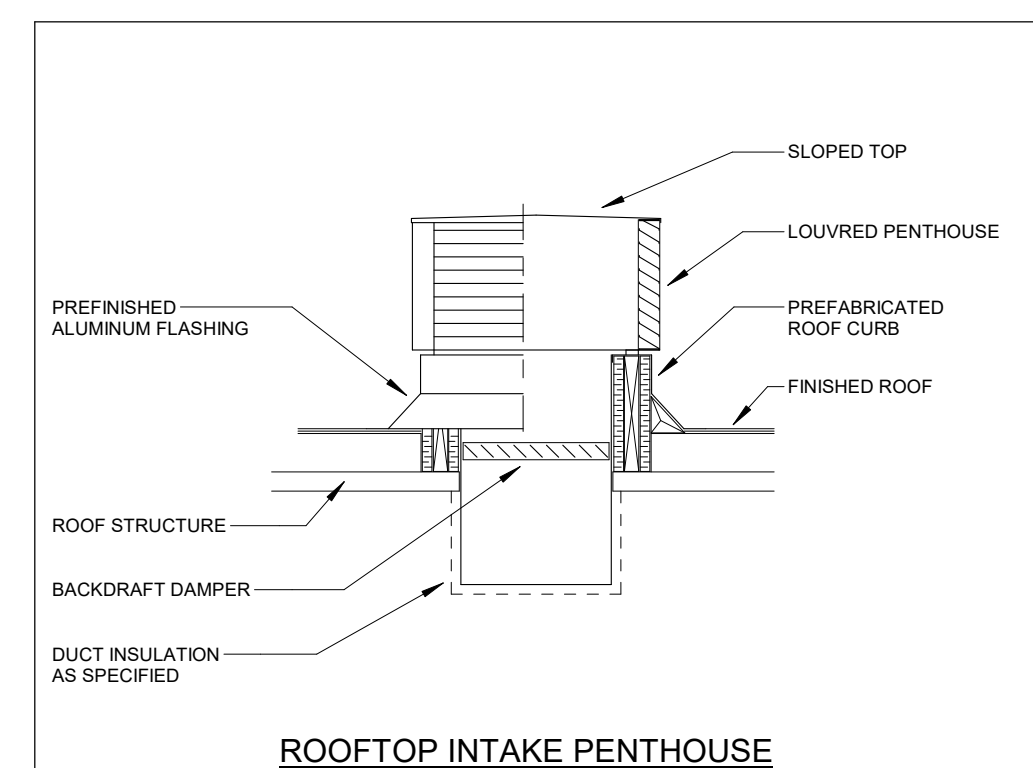
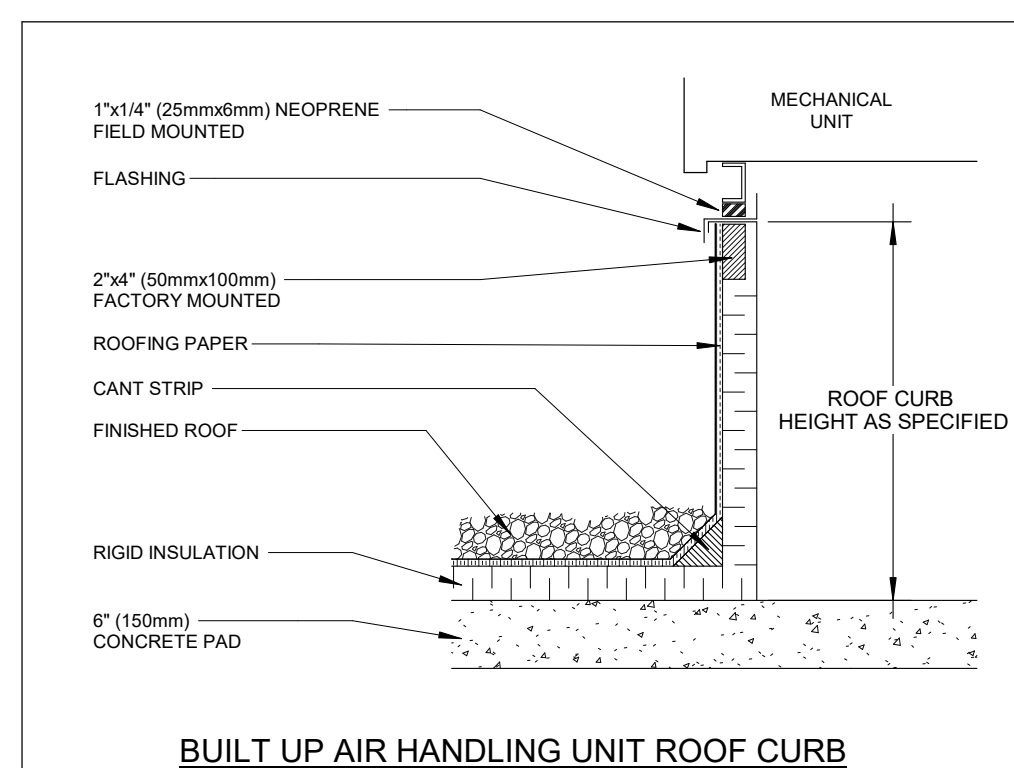
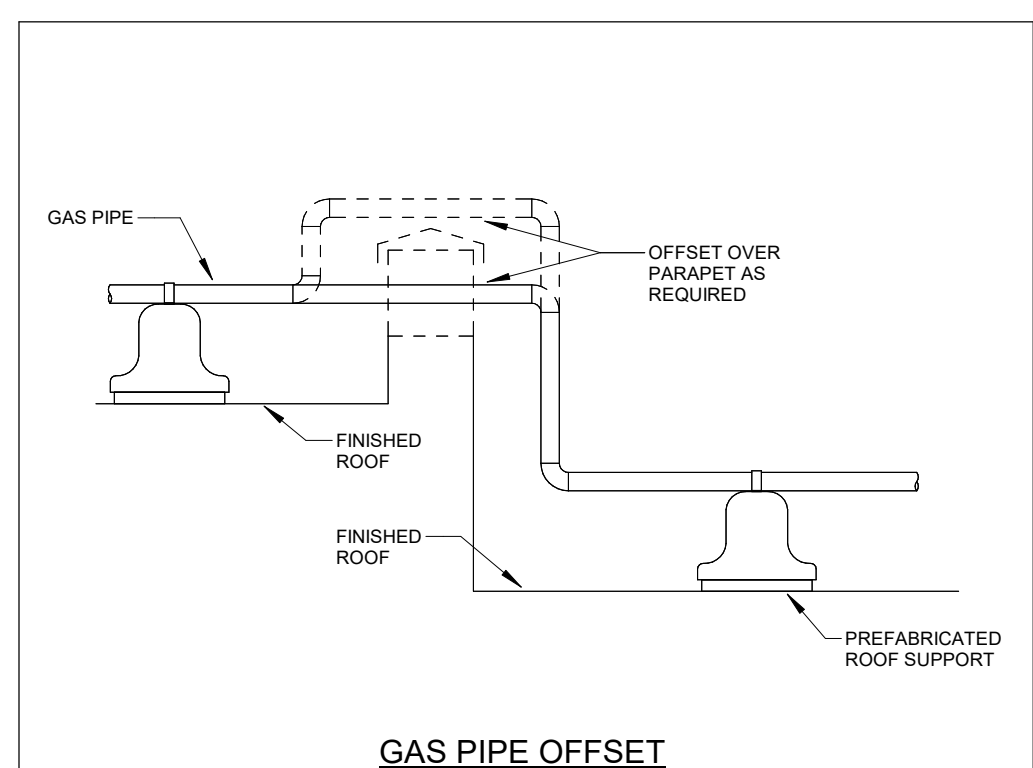
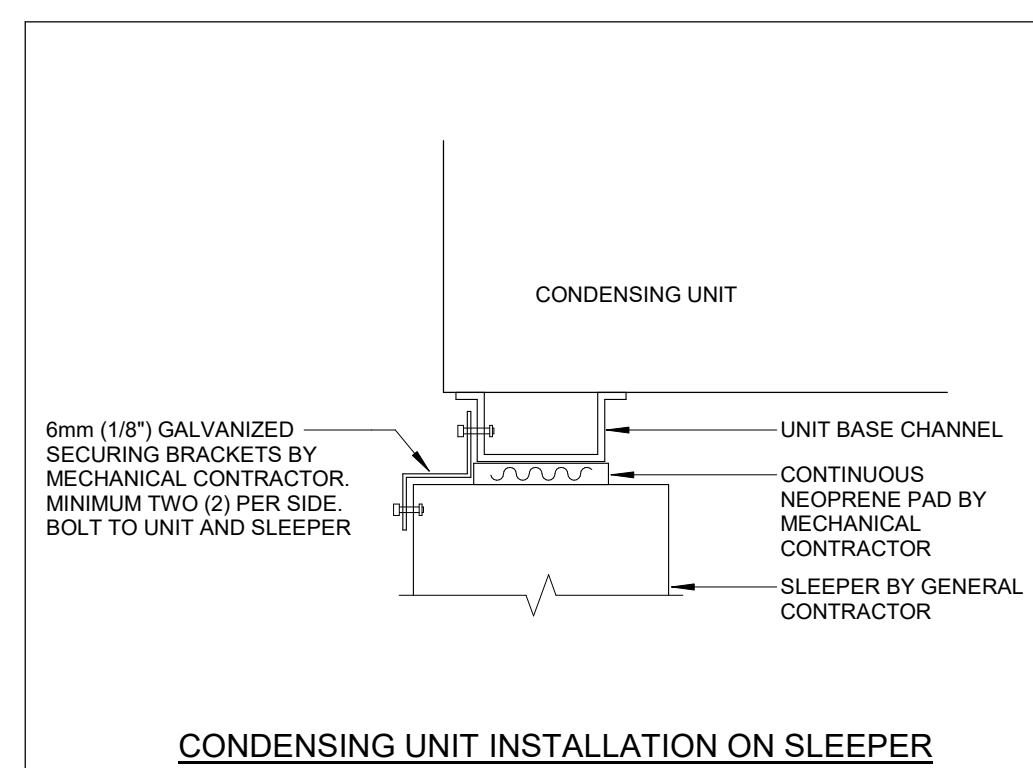
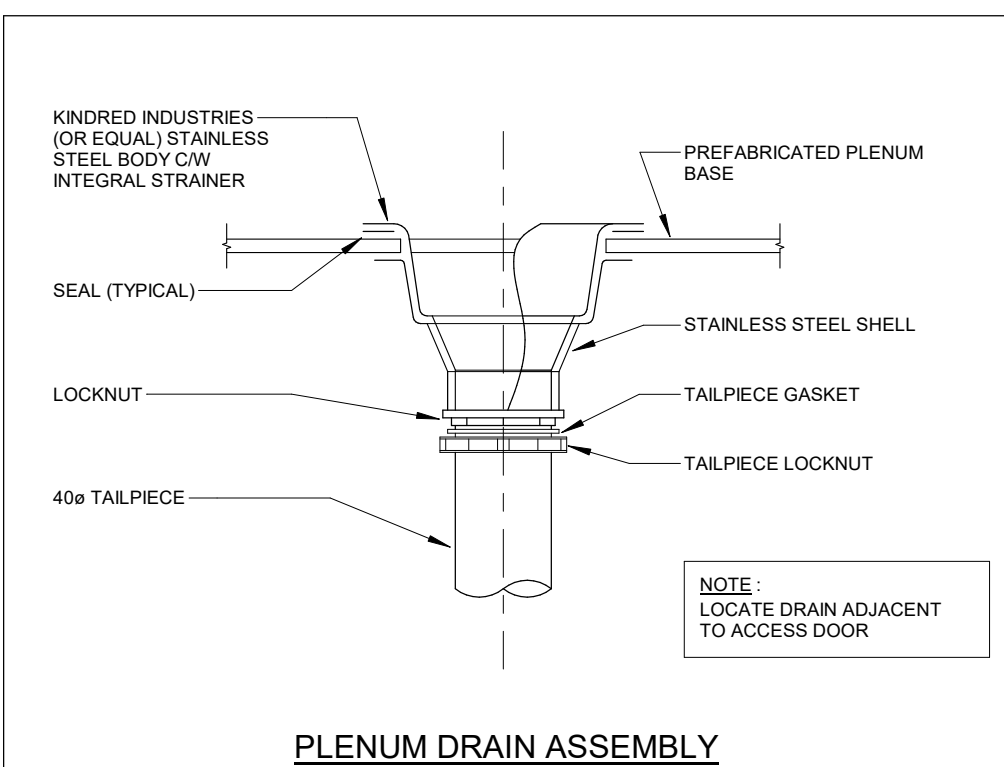
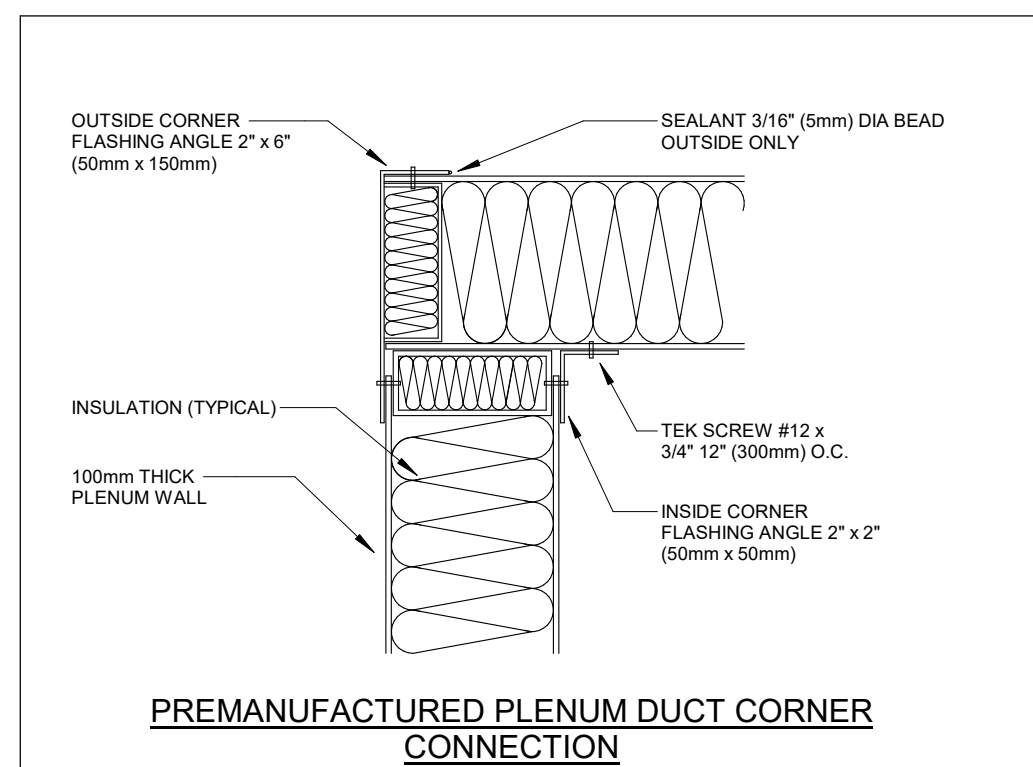
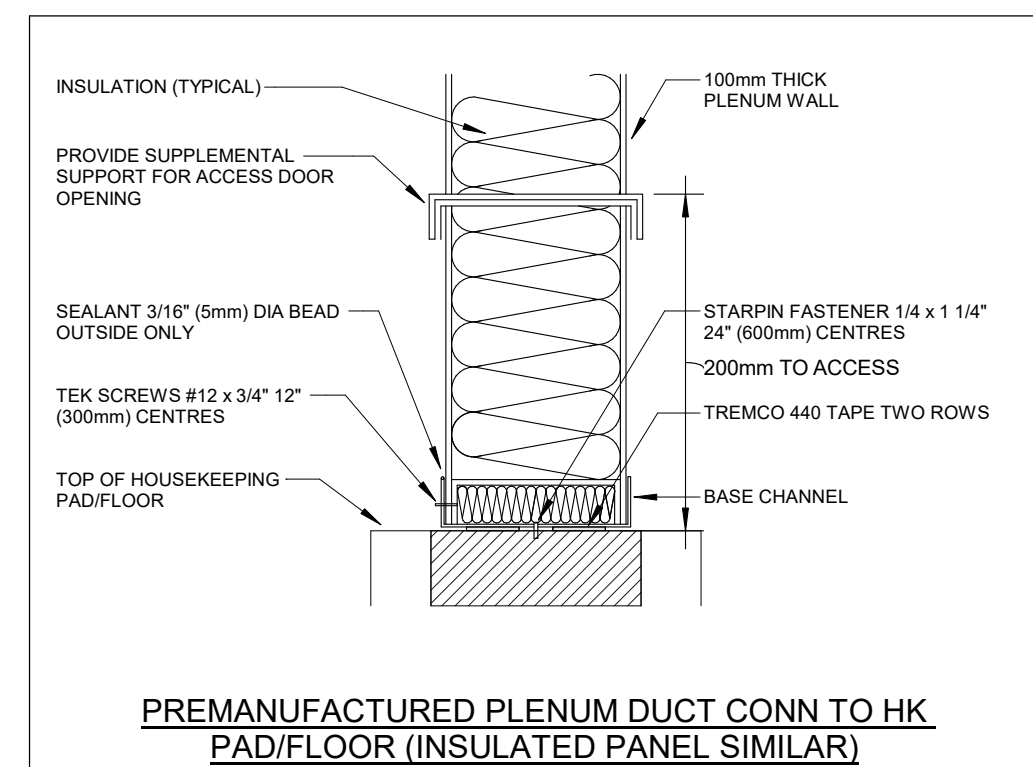
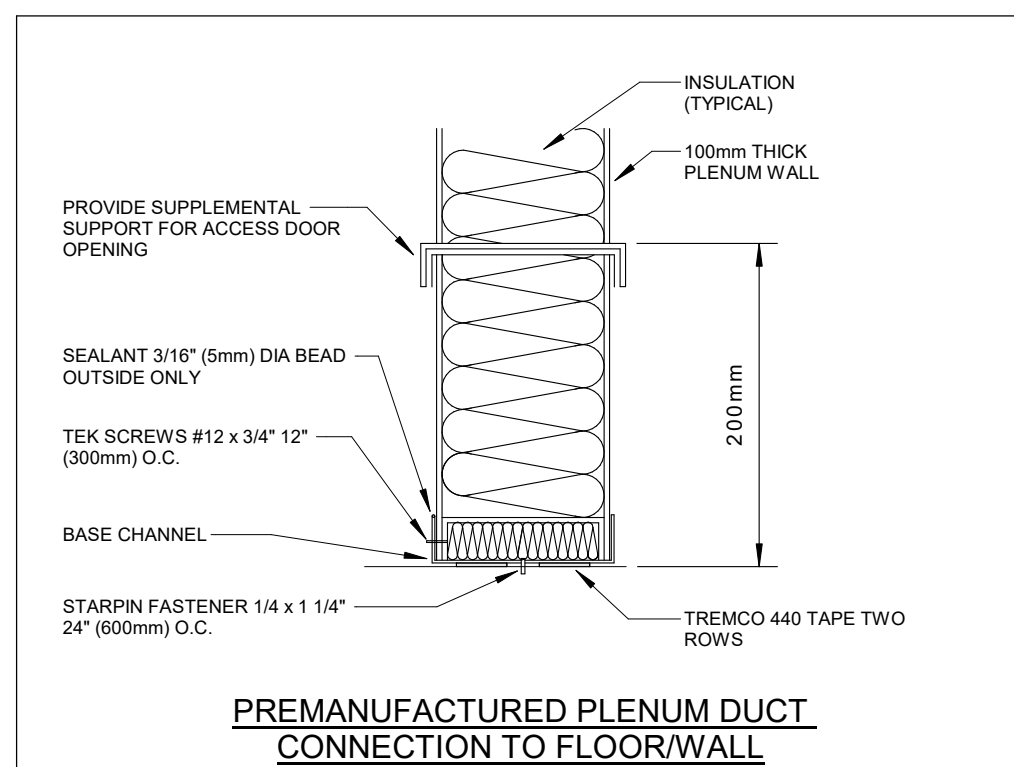
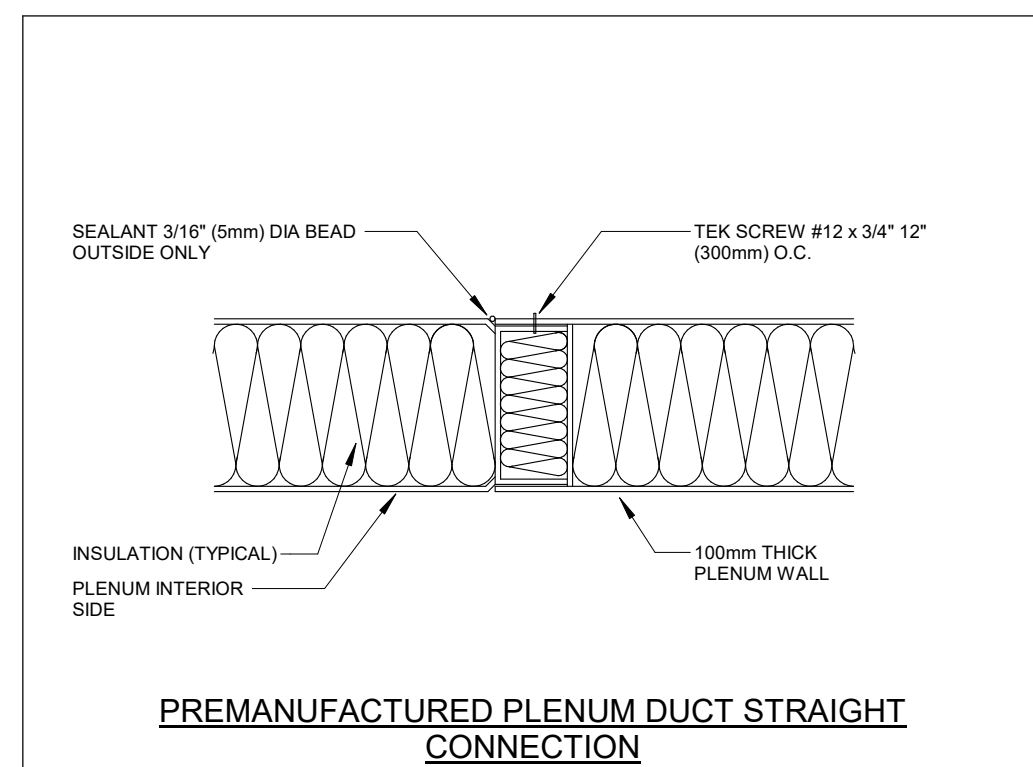
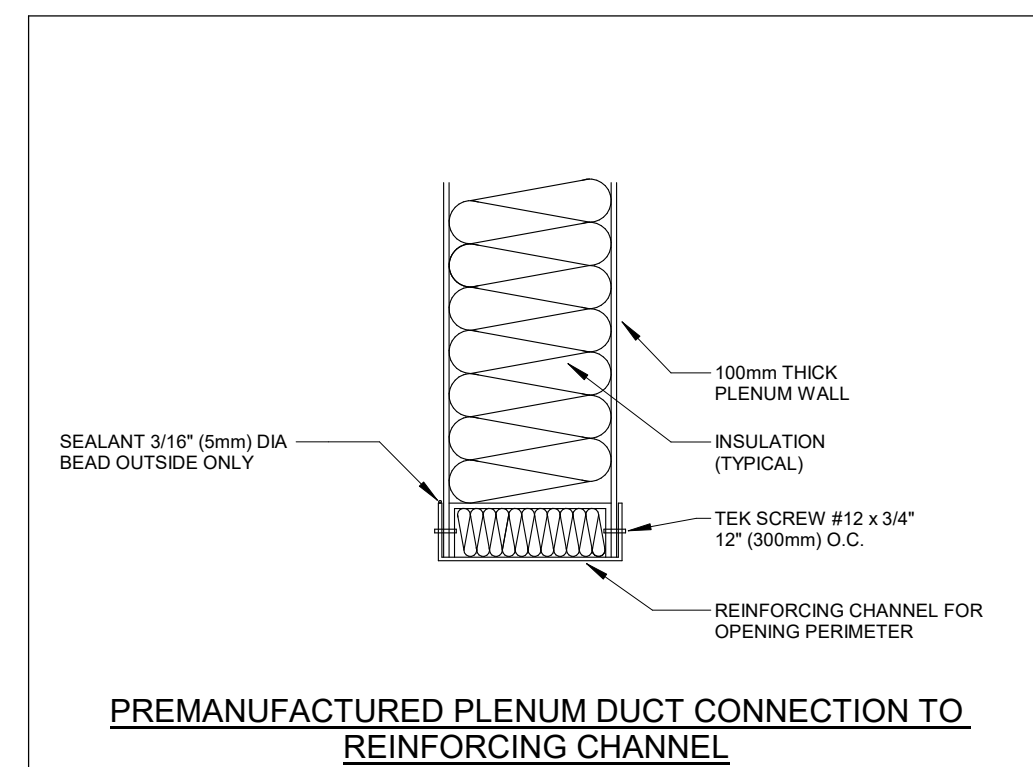
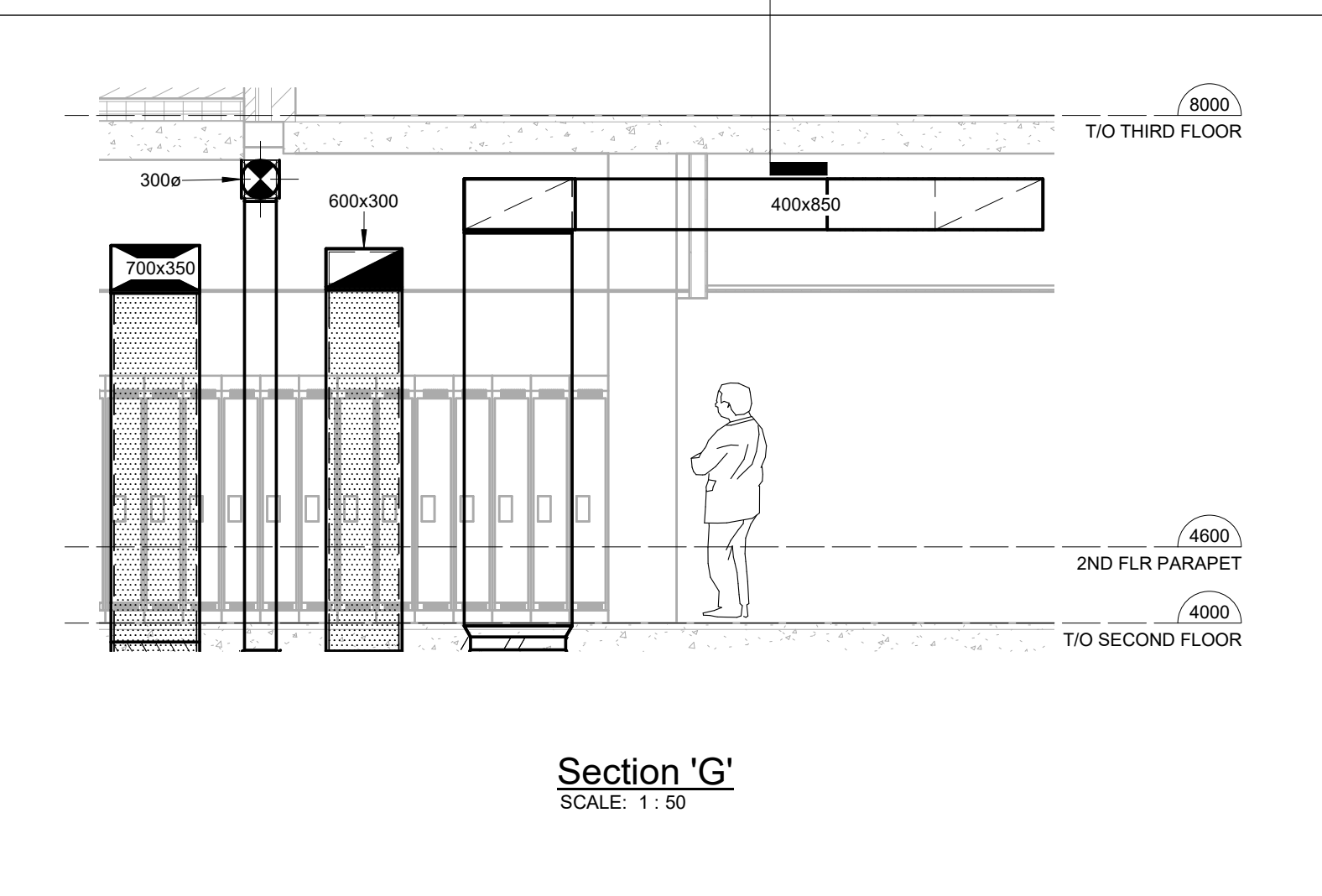
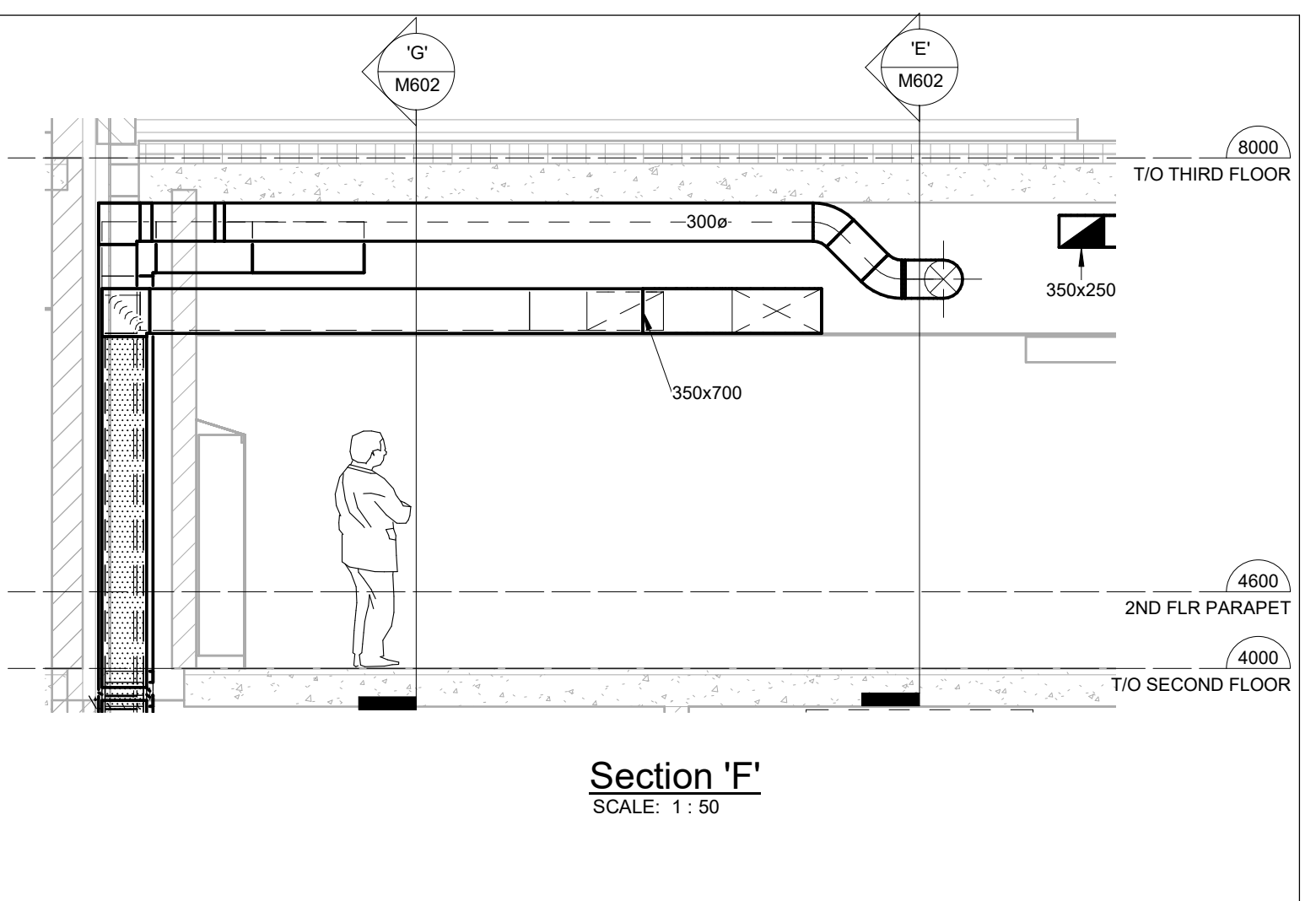
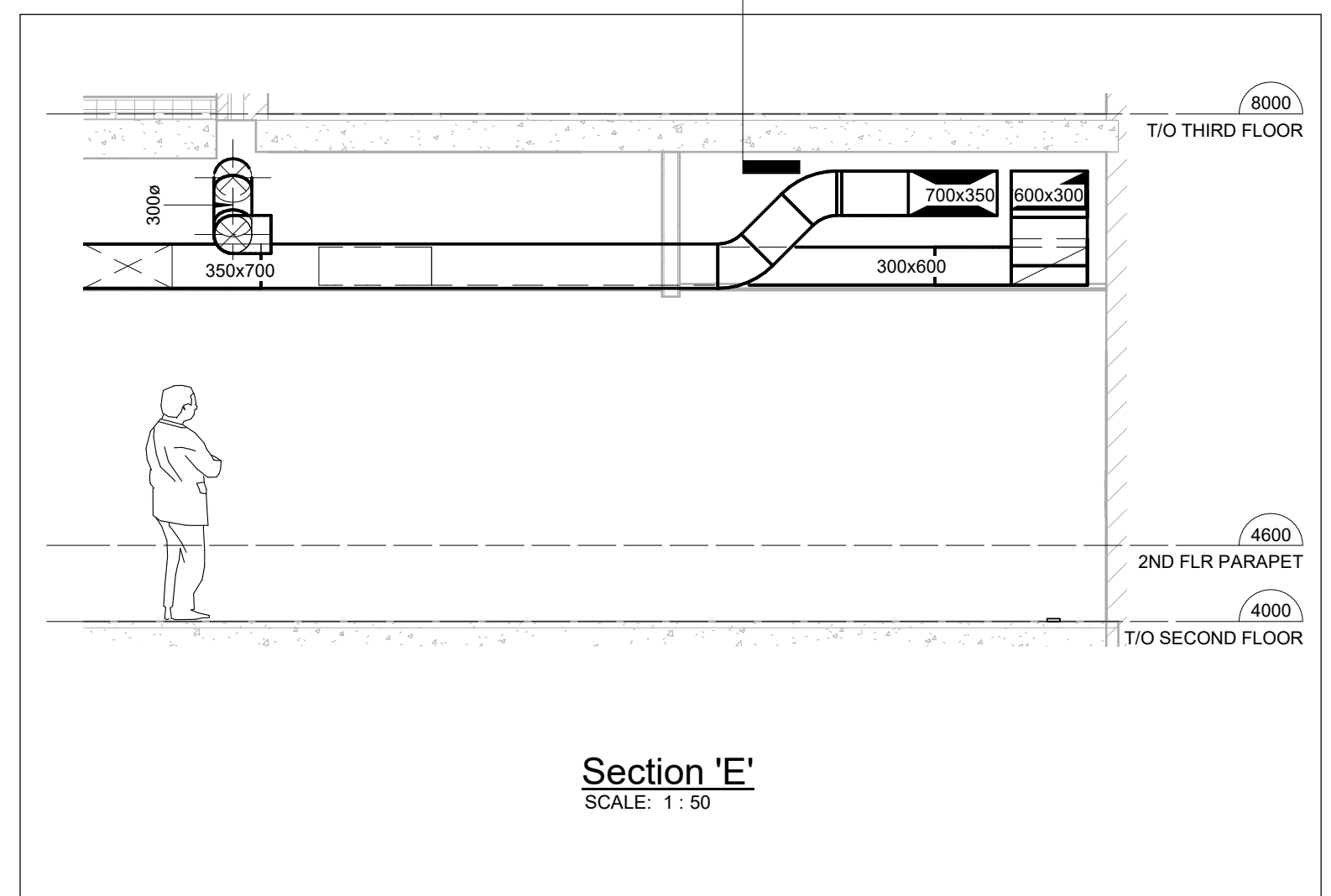
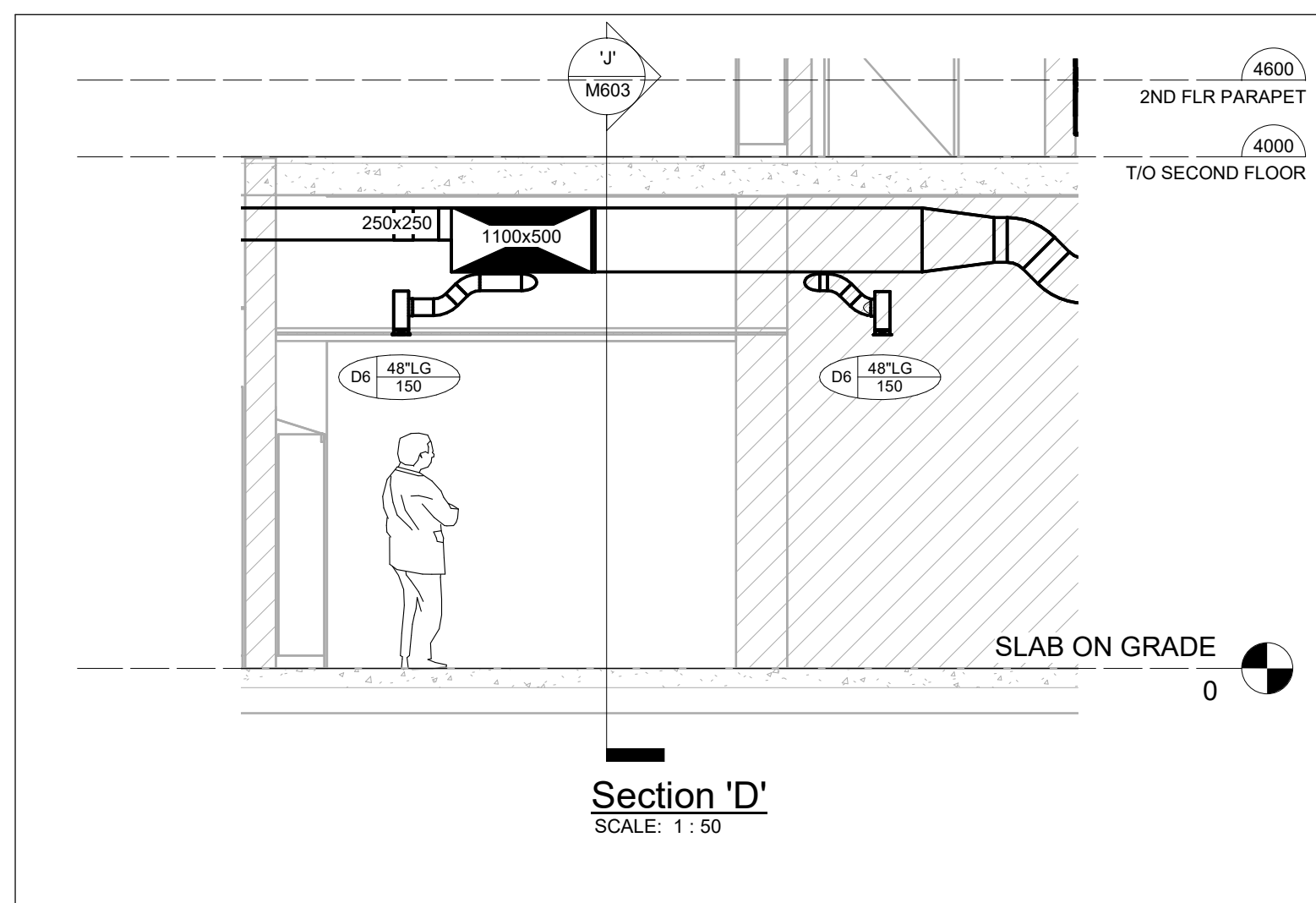
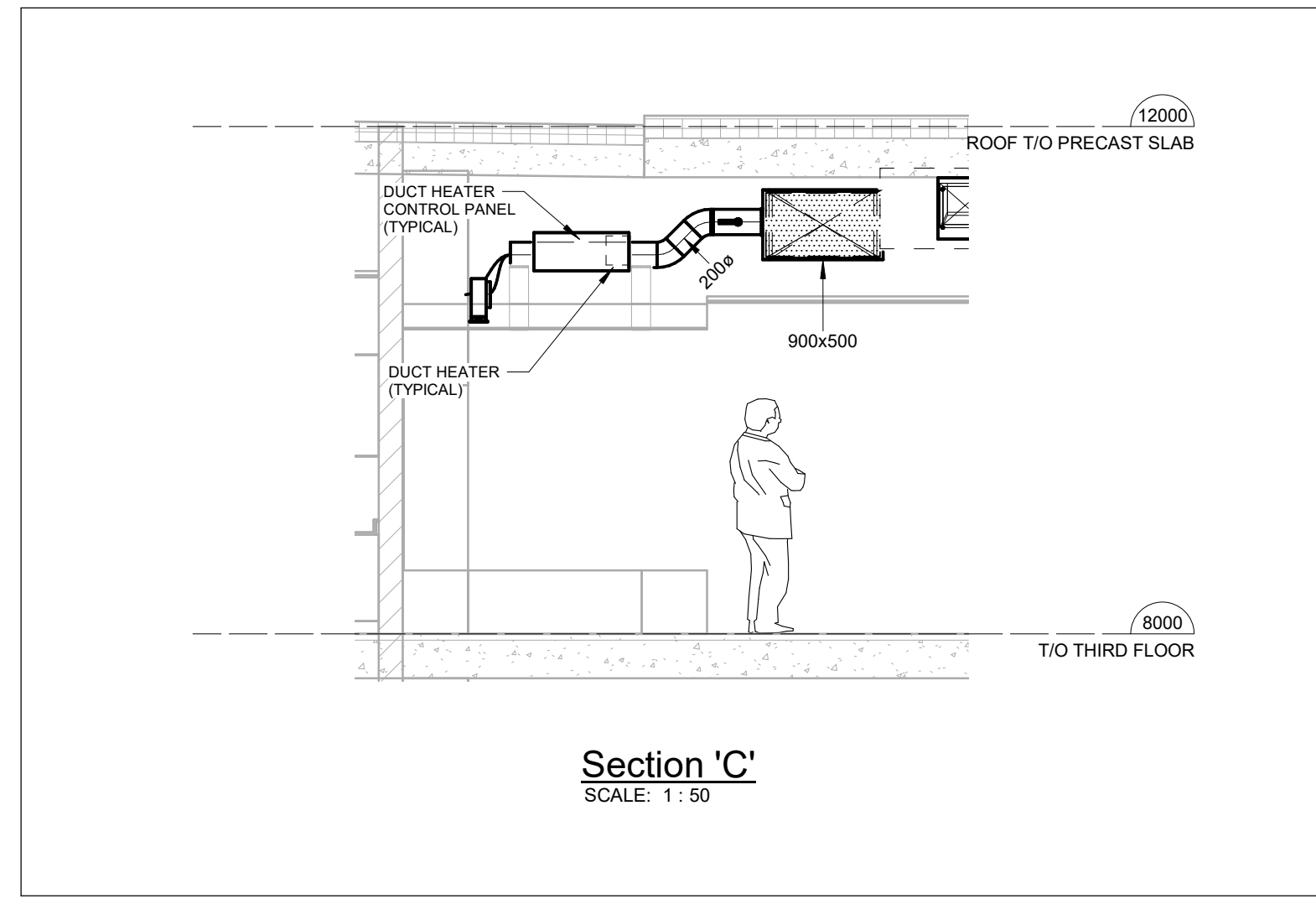
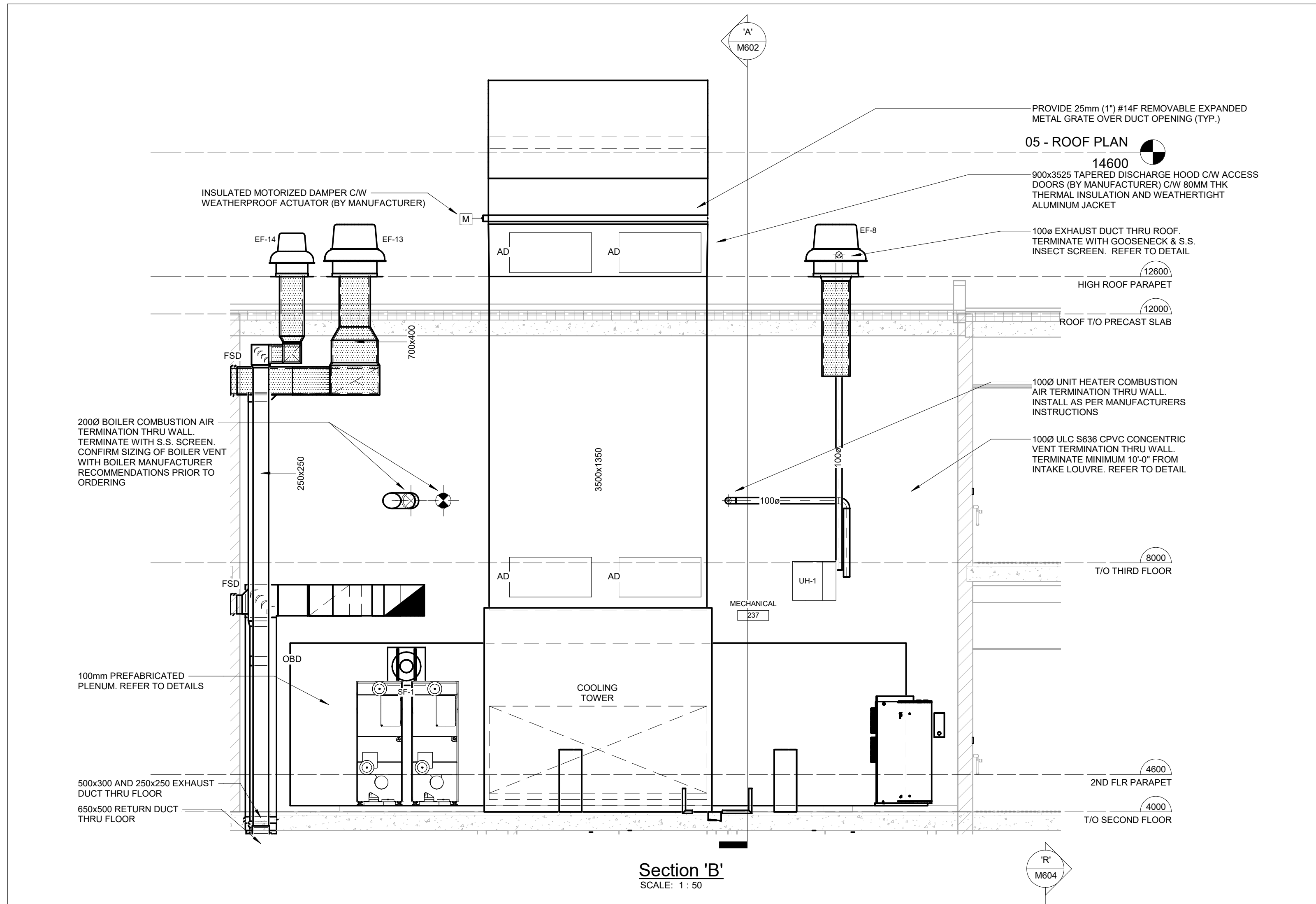
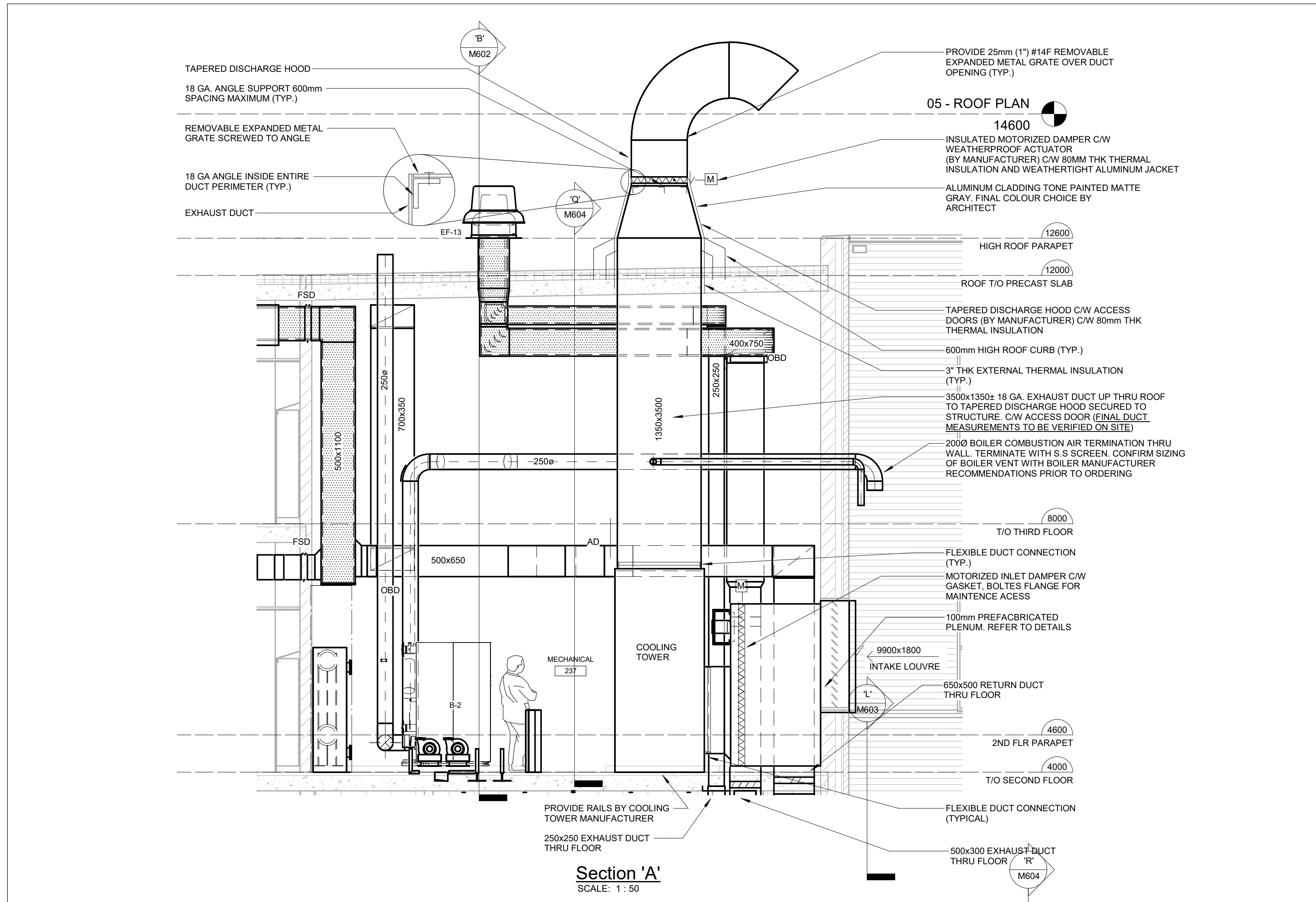


MECHANICAL ELECTRICAL AQUATIC PROJECT	22383
DATE	As Indicated
DATE	SEPT 2023
DRAWN	AP/PE
CHECKED	SM
REVIT FILE	T:\01717123\02\Revit\RYT



ROOF PLAN

SCALE: 1:100



11	ISSUED FOR TENDER	26.01.13
9	RE-ISSUED FOR PERMIT	25.04.08
8	ISSUED FOR PERMIT & TENDER	24.03.04
7	ISSUED FOR TENDER	24.01.16
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1	ISSUED FOR 75% REVIEW	23.10.04
NO	DESCRIPTION	DATE

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OAKVILLE #5 PUBLIC SCHOOL

3480 PRESERVE DRIVE, OAKVILLE, ON

LEGAL DESCRIPTION

BLOCK XX
TOWN OF OAKVILLE
REGION OF HALTON

HOSSACK & ASSOCIATES ARCHITECTS

15 Northland Road
Oakville, ON L6M 4K9
Phone: (905) 232-2255
Mobile: (416) 335-3683
Fax: (905) 335-3682

DEI Consulting Engineers

MECHANICAL ELECTRICAL AQUATIC

SCALE: As Indicated PROJECT: 22383

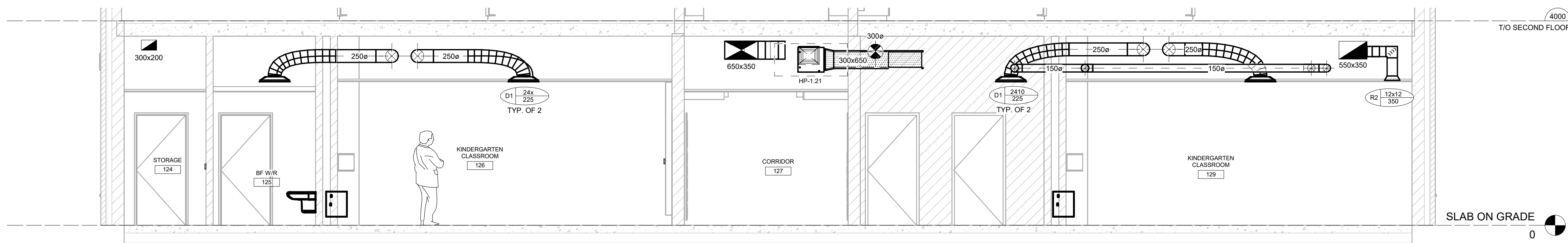
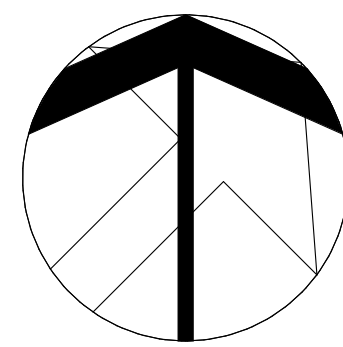
DATE: SEPT 2023

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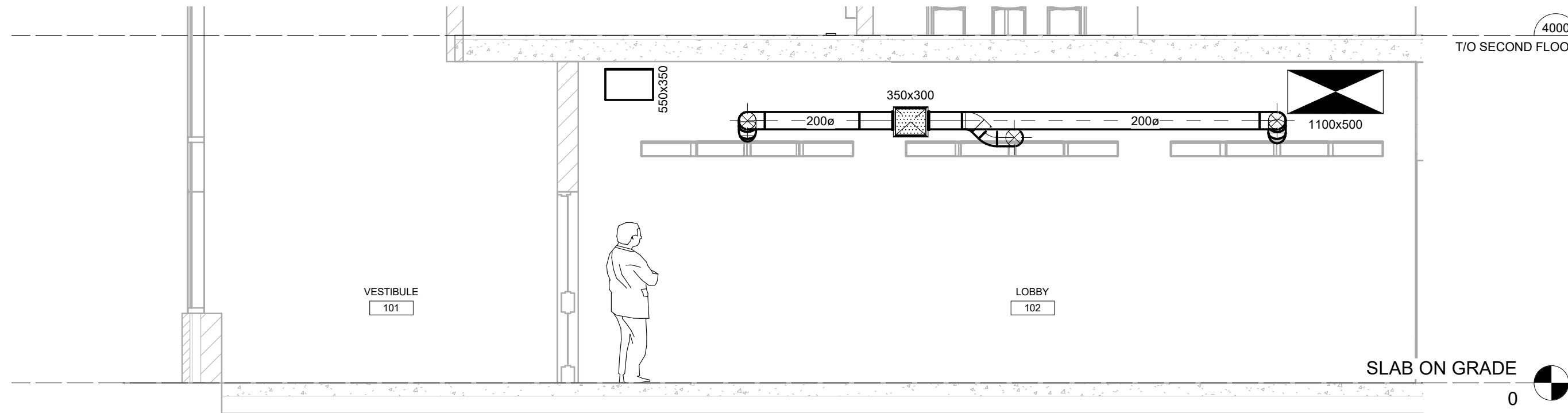
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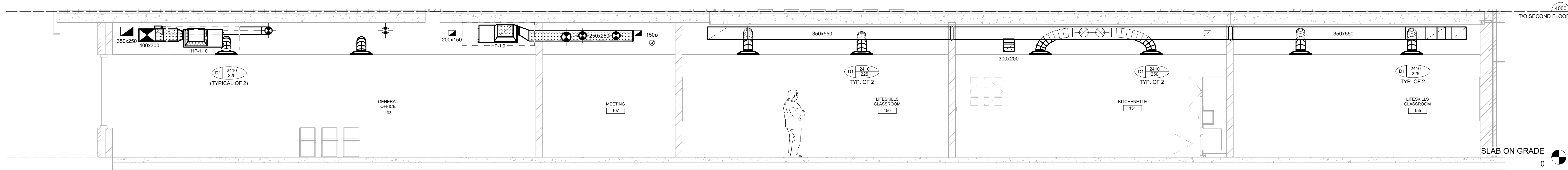
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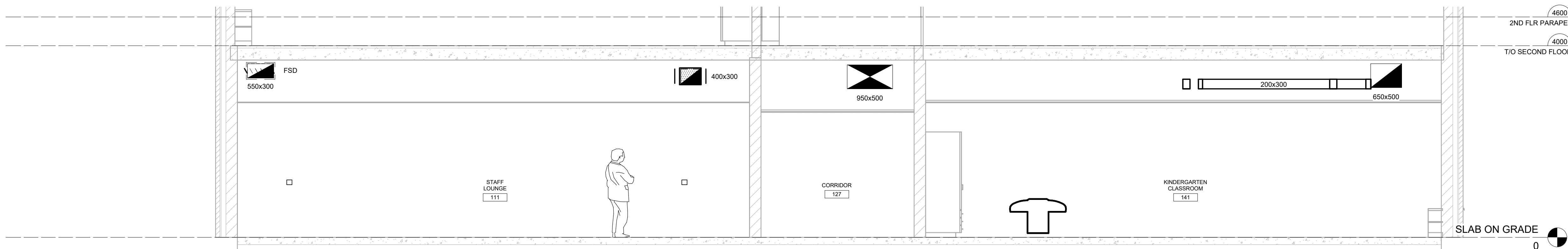
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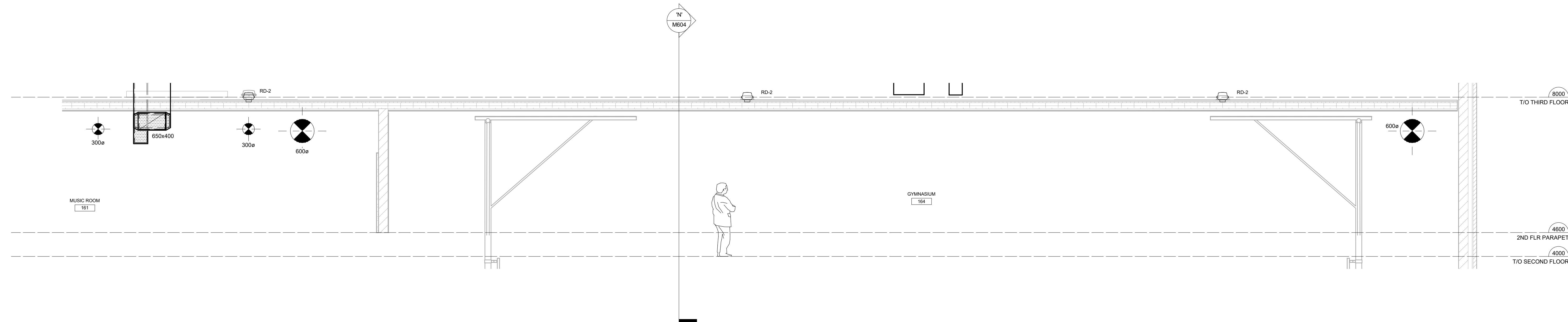
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SECTION 'L'
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SECTION 'M'
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NO.	DESCRIPTION	DATE
11	ISSUED FOR TENDER	26.01.13
9	RE-ISSUED FOR PERMIT	25.04.08
8	ISSUED FOR PERMIT & TENDER	24.03.04
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2	ISSUED FOR 90% REVIEW	23.10.13
1	ISSUED FOR 75% REVIEW	23.10.04

NO. DESCRIPTION DATE

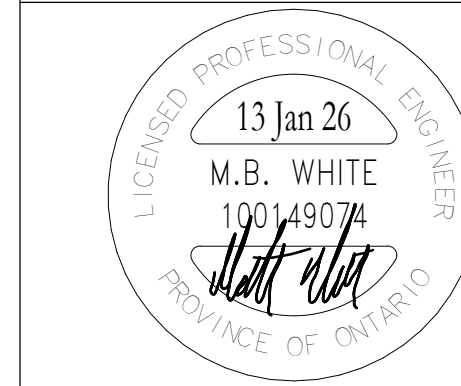
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OAKVILLE #5 PUBLIC
SCHOOL

3480 PRESERVE DRIVE, OAKVILLE, ON

LEGAL DESCRIPTION

BLOCK XX
REGISTERED PLAN XXXXX
TOWN OF OAKVILLE
REGION OF HALTON

WALTON DISTRICT SCHOOL BOARD
1111 SINGLTON EDUCATION CENTRE
BURLINGTON, ON L7R 5Z2
TEL (905) 335-3863
FAX (905) 335-3862

SECTIONS

HOSSACK & ASSOCIATES
ARCHITECTS

8000 Highway 10 East
Mississauga, Ontario L4W 1A6
Tel: (905) 276-1111 Fax: (905) 276-1112

DEI
Consulting Engineers

MECHANICAL ELECTRICAL AQUATIC

SCALE: As Indicated PROJECT: 22383

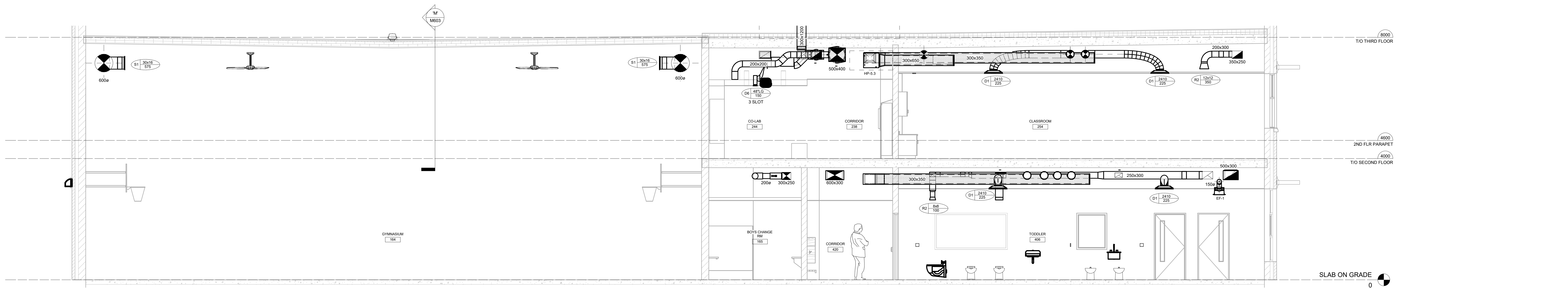
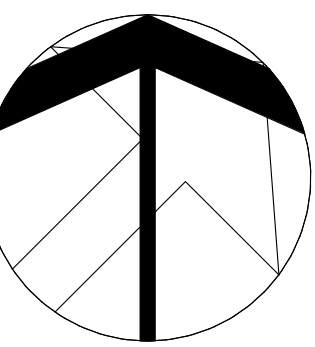
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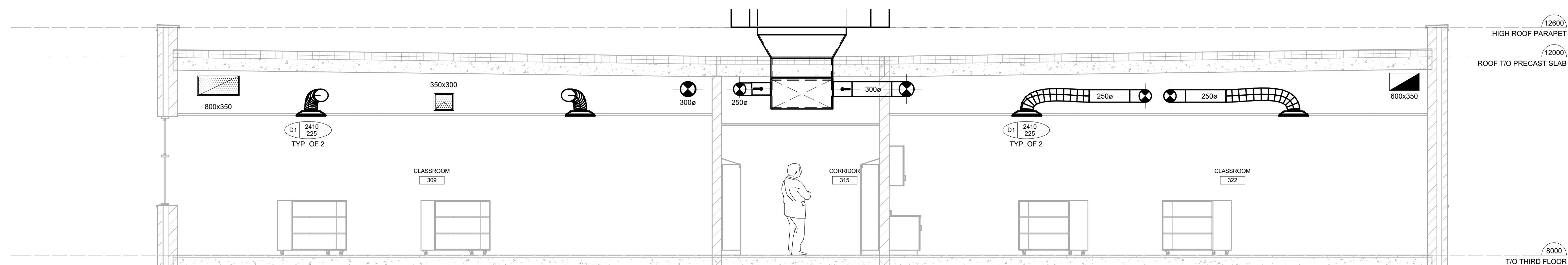
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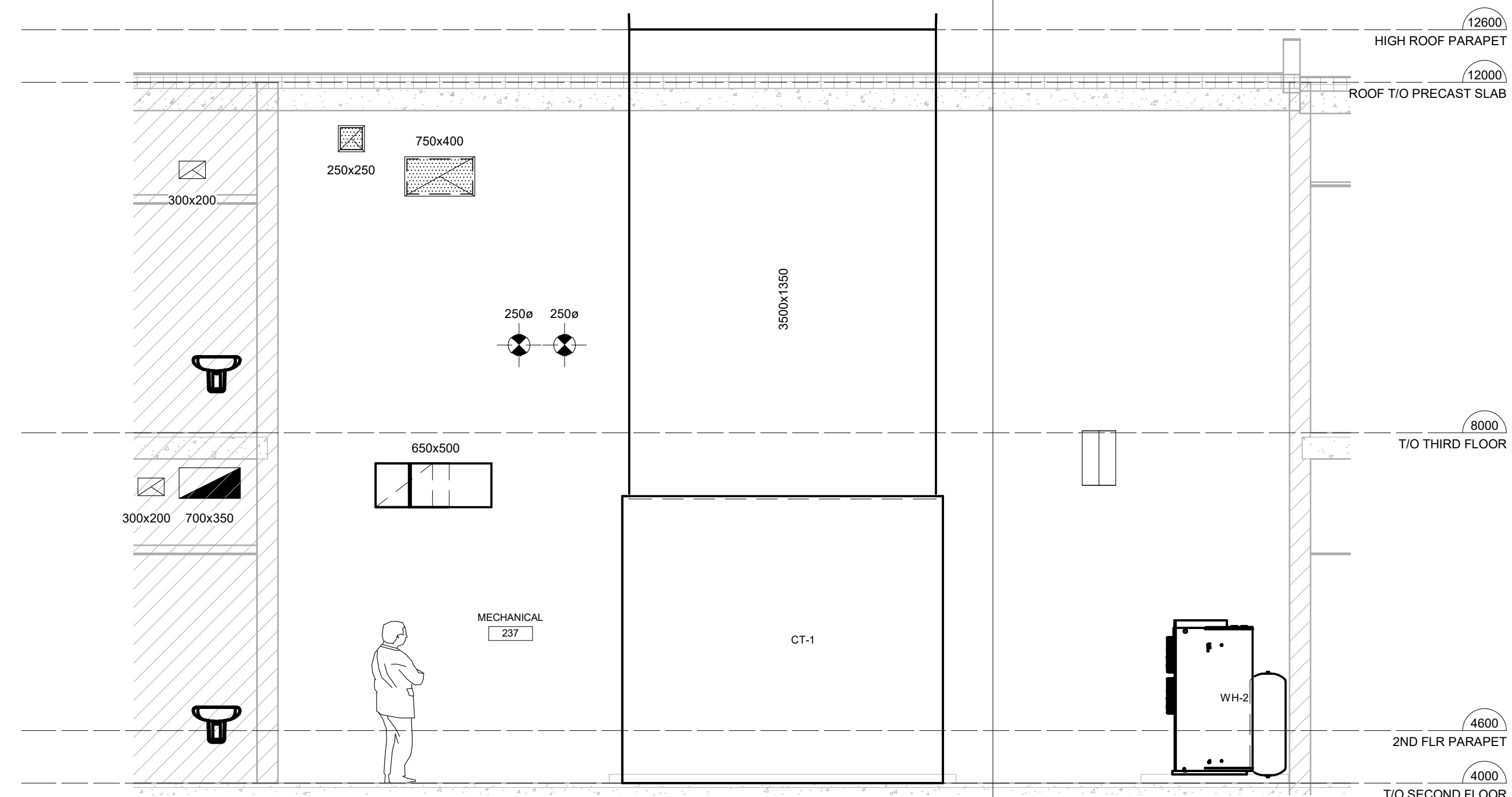


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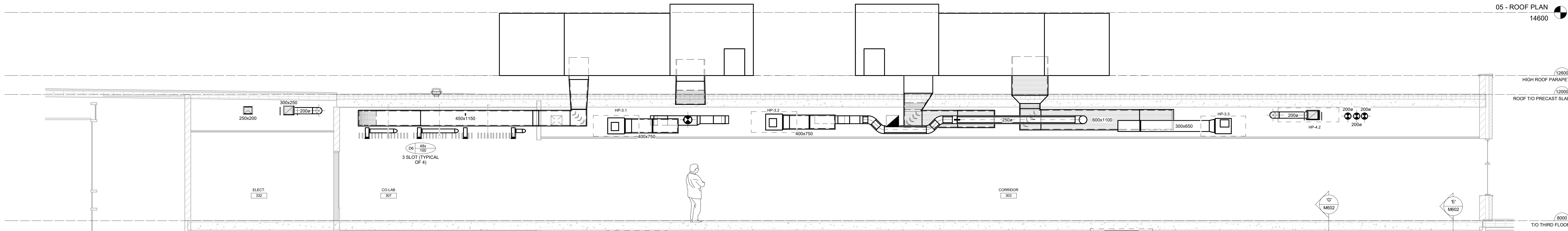


SECTION 'P'
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SECTION 'Q'
SCALE: 1:50



05 - ROOF PLAN
14600



SECTION 'R'
SCALE: 1:50

NO	DESCRIPTION	DATE
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9	REVISED FOR PERMIT	25.04.08
8	ISSUED FOR PERMIT & TENDER	24.03.04
7	ISSUED FOR TENDER	24.01.16
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REGION OF HALTON

MALTON DISTRICT SCHOOL BOARD
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650 QUELPH LINE
BURLINGTON, ON L7R 5Z2
TEL (905) 335-3863
FAX (905) 335-3862

SECTIONS

HOSSACK & ASSOCIATES
ARCHITECTS

DEI
Consulting Engineers

MECHANICAL ELECTRICAL AQUATIC

SCALE: As Indicated

DATE: SEPT 2023

DRAWN: AP/IE

CHECKED: SM

PRINT DATE: 2028-01-14 9:28:27 AM

REVIT FILE: T:\0171712302\Revit\RYT

PROJECT: 22383

DRAWING: M604