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SHEET INDEX		ABBREVIATIONS		GENERAL		GENERAL PIPING		PLUMBING	
M0.01	LEGEND AND ABBREVIATIONS	@	AND	IN HG	INCHES MERCURY				
M0.02	MECHANICAL SCHEDULES	#	NUMBER	IN WC	INCHES WATER COLUMN				
M0.03	MECHANICAL SCHEDULES	%	PERCENT	INSUL	INSULATION				
M0.04	MECHANICAL SCHEDULES	AD	ACCESS DOOR	IPS	INTERNATIONAL PIPE STANDARD				
M1.01	SITE AND ROOF PLAN - MECHANICAL	AAP	AREA ALARM PANEL	K	THERMAL CONDUCTIVITY				
M1.02	FIRST FLOOR - HVAC SYSTEMS MAP	ADA	AMERICANS WITH DISABILITIES ACT	KWH	KILOWATT HOUR				
M1.03	SECOND FLOOR - HVAC SYSTEMS MAP	AFF	ABOVE FINISHED FLOOR	LAT	LEAVING AIR TEMPERATURE				
M1.04	FIRST FLOOR - HVAC ZONE MAP	AFG	ABOVE FINISHED GRADE	LB/HR	POUNDS PER HOUR				
M1.05	SECOND FLOOR - HVAC ZONE MAP	AHU	AUTHORITY HAVING JURISDICTION	LBS	POUNDS				
M1.06	FIRST FLOOR - PRESSURE MAP	AHU	AIR-HANDLING UNIT	LF	LINEAR FEET				
M1.07	SECOND FLOOR - PRESSURE MAP	ALT	ALTERNATE	L	LENGTH				
M2.00	UNDERFLOOR - PLUMBING	AMB	AMBIENT	LWT	LEAVING WATER TEMPERATURE				
M2.01	FIRST FLOOR - PLUMBING	AMCA	AIR MOVEMENT AND CONTROL ASSOCIATION	LOC	LOCATION/LOCATED				
M2.02	SECOND FLOOR - PLUMBING	ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	LP	LOW PRESSURE				
M2.03	ENLARGED PLANS AND DIAGRAMS - PLUMBING	APD	AIR PRESSURE DROP	LR	LONG RADIUS				
M2.04	ENLARGED PLANS AND DIAGRAMS - PLUMBING	APPROX	APPROXIMATE	MAN	MANUAL				
M3.01	FIRST FLOOR PLAN - HEATING & COOLING PIPING	AR	ACID RESISTANT	MAT	MIXED AIR TEMPERATURE				
M3.02	SECOND FLOOR PLAN - HEATING & COOLING PIPING	ARCH	ARCHITECTURAL	MAV	MANUAL AIR VENT				
M4.01	FIRST FLOOR PLAN - VENTILATION	ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	MAX	MAXIMUM				
M4.02	SECOND FLOOR PLAN - VENTILATION	ATM	ATMOSPHERE	MBH	THOUSAND BTU PER HOUR				
M5.01	ENLARGED PLANS AND SECTIONS	AUTO	AUTOMATIC	MECH	MECHANICAL				
M5.02	ENLARGED PLANS AND SECTIONS	AVG	AVERAGE	MFR	MANUFACTURER				
M5.03	ENLARGED PLANS AND SECTIONS	AWG	AMERICAN WIRE GAUGE	MH	MANHOLE				
M6.01	DETAILS & DIAGRAMS - PLUMBING	BAS	BUILDING AUTOMATION SYSTEM	MIN	MINIMUM, MINUTE				
M6.02	DETAILS & DIAGRAMS - PLUMBING	BDD	BACKDRAFT DAMPER	MPH	MILES PER HOUR				
M6.03	DETAILS & DIAGRAMS - PLUMBING	BHP	BRAKE HORSEPOWER, BOILER HORSEPOWER	MTD	MOUNTED				
M7.01	DETAILS & DIAGRAMS - HEATING & COOLING	BLDG	BUILDING	N/A	NOT APPLICABLE				
M7.02	DETAILS & DIAGRAMS - HEATING & COOLING	BLW	BELOW	NC	NOISE CRITERIA, NORMALLY CLOSED				
M7.03	DETAILS & DIAGRAMS - HEATING & COOLING	BOD	BOTTOM OF DUCT	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION				
M7.04	DETAILS & DIAGRAMS - HEATING & COOLING	BOP	BOTTOM OF PIPE	NIC	NOT IN CONTRACT				
M7.05	DETAILS & DIAGRAMS - HEATING & COOLING	BTM	BOTTOM	NO	NORMALLY OPEN, NUMBER				
M8.01	DETAILS & DIAGRAMS - VENTILATION	BTUH	BTU PER HOUR	NTS	NOT TO SCALE				
M8.02	DETAILS & DIAGRAMS - VENTILATION	C	COMMON, CONDENSATE	OD	OUTSIDE DIAMETER				
M8.03	DETAILS & DIAGRAMS - VENTILATION	C-C	CENTER TO CENTER	OFOI	OWNER FURNISHED, OWNER INSTALLED				
		CAP	CAPACITY, END CAP	OSA	OUTSIDE AIR				
		CCW	COUNTER-CLOCKWISE	OZ	OUNCE				
		CF	COOLING FAN, CIRCULATING FAN, CUBIC FOOT	PD	PRESSURE DROP OR DIFFERENCE				
		CFM	CUBIC FEET PER MINUTE	PG	PROPYLENE GLYCOL				
		CI	CAST IRON	POC	POINT OF CONNECTION				
		CL	CENTER LINE	PNL	PANEL				
		CLG	CEILING	PH	PHASE (ELECTRICAL)				
		CMR	COMPRESSOR	PPM	PARTS PER MILLION				
		COEF	COEFFICIENT	PSI	POUNDS PER SQUARE INCH				
		CONC	CONCRETE	PSIA	POUNDS PER SQUARE INCH - ABSOLUTE				
		COND	CONDENSER	PSID	POUNDS PER SQUARE INCH - DIFFERENTIAL				
		CTR	CENTER	PSIG	POUNDS PER SQUARE INCH - GAUGE				
		CU	COPPER, CONDENSING UNIT	PRESS	PRESSURE				
		CU IN	CUBIC INCH	PRI	PRIMARY				
		CV	VALVE FLOW COEFFICIENT	R-407C, R-410A	REFRIGERANT (407C,410A,ETC.)				
		CW	CLOCKWISE	RA	RETURN AIR				
		DB	DECIBEL	RAD	RADIANT OR RADIATION				
		DBT	DRY-BULB TEMPERATURE	RCVR	RECEIVER				
		DDC	DIRECT DIGITAL CONTROL	RECIRC	RECIRCULATE				
		DEG OR °	DEGREE	RED	REDUCER				
		DEG C	DEGREE CENTIGRADE	REFRIG	REFRIGERATION				
		DEG F	DEGREE FAHRENHEIT	REV	REVOLUTIONS				
		DEMO	DEMOLITION	RF	RELIEF FAN OR RETURN FAN				
		DENS	DENSITY	RH	RELATIVE HUMIDITY				
		DGM	DIAGRAM	RM	ROOM				
		DI	DUCTILE IRON	RPM	REVOLUTIONS PER MINUTE				
		DIA OR ø	DIAMETER	RPS	REVOLUTIONS PER SECOND				
		DIFF	DIFFERENCE OR DELTA	S/A	SUPPLY AIR				
		DIP	DUCTILE IRON PIPE	SAT	SATURATION				
		DN	DOWN	SCHD	SCHEDULE				
		DO	DITTO	SCFM	STANDARD CUBIC FEET PER MINUTE				
		DTL	DETAIL	SD	STORM DRAIN				
		DWDI	DOUBLE WIDTH DOUBLE INLET	SEC	SECONDARY				
		DWG	DRAWING	SF	SQUARE FEET				
		(E)	EXISTING	SH	SENSIBLE HEAT				
		EA	EACH	SHG	SENSIBLE HEAT GAIN				
		EAT	ENTERING AIR TEMPERATURE	SHR	SENSIBLE HEAT RATIO				
		EF	EXHAUST FAN	SHT	SHEET				
		EFF	EFFICIENCY	SHWR	SHOWER				
		EG	ETHYLENE GLYCOL, EXHAUST GRILLE	SP	STATIC PRESSURE				
		ELEC	ELECTRICAL	SPD	STATIC PRESSURE DROP				
		ELEV	ELEVATION	SPEC	SPECIFICATION, SPECIFIED				
		EMB	EMBEDMENT	SPKLR	SPRINKLER				
		ENT	ENTERING	SR	SHORT RADIUS				
		EQUIV FT	EQUIVALENT FEET	SWSI	SINGLE WIDTH SINGLE INLET				
		ESP	EXTERNAL STATIC PRESSURE	SQ	SQUARE				
		EVAP	EVAPORATOR	SS	STAINLESS STEEL, SANITARY SEWER				
		EXP	EXPANSION	STD	STANDARD				
		EWT	ENTERING WATER TEMPERATURE	SUCT	SUCTION				
		°F	FAHRENHEIT	TA	TRANSFER AIR				
		FA	FACE AREA	TEMP	TEMPERATURE, TEMPORARY				
		F-F	FACE TO FACE	THRU	THROUGH				
		FD	FIRE DAMPER	TOD	TOP OF DUCT				
		FLEX	FLEXIBLE	TONS	TONS OF REFRIGERATION				
		FLR	FLOOR	TOP	TOP OF PIPE				
		FOB	FLAT ON BOTTOM	TYP	TYPICAL				
		FOT	FLAT ON TOP	UG	UNDERGROUND				
		FP	FREEZING POINT	UNO	UNLESS NOTED OTHERWISE				
		FPM	FEET PER MINUTE	UPC	UNIFORM PLUMBING CODE				
		FPS	FEET PER SECOND	V	VOLTS OR VOLTAGE				
		FSD	FIRE-SMOKE DAMPER	VAC	VACUUM				
		FSDM	FIRE-SMOKE DAMPER, MODULATING	VAC	VOLTS (ALTERNATING CURRENT)				
		FT	FOOT OR FEET	VAL	VALVE				
		FV	FACE VELOCITY	VAP PR	VAPOR PRESSURE				
		GA	GAGE OR GAUGE	VAR	VARIABLE				
		GAL	GALLONS	VAV	VARIABLE AIR VOLUME				
		GPD	GALLONS PER DAY	VDC	VOLTS (DIRECT CURRENT)				
		GPH	GALLONS PER HOUR	VEL	VELOCITY				
		GPM	GALLONS PER MINUTE	VERT	VERTICAL				
		GR	GRAINS	VFD	VARIABLE FREQUENCY DRIVE				
		GRD	GRILLES, REGISTERS, DIFFUSERS	VOL	VOLUME				
		HD	HEAD	VP	VELOCITY PRESSURE				
		HDPE	HIGH DENSITY POLYETHYLENE	VSD	VARIABLE SPEED DRIVE				
		HG	HEAT GAIN	VTR	VENT THROUGH ROOF				
		HT	HEIGHT	W	WATT				
		HP	HORSEPOWER	W/	WITH				
		HR	HOUR(S)	W/O	WITHOUT				
		HVAC	HEATING, VENTILATING & AIR-CONDITIONING	WB	WET BULB TEMPERATURE				
		HZ	FREQUENCY	WC	WATER COLUMN				
		ID	INSIDE DIAMETER	WH	WATT-HOUR				
		IE	INVERT ELEVATION	WP	WEATHER PROOF, WATER PROOF				
		IBC	INTERNATIONAL BUILDING CODE	WPD	WATER PRESSURE DROP				
		IFC	INTERNATIONAL FIRE CODE	WT	WEIGHT				
		IMC	INTERNATIONAL MECHANICAL CODE	YD	YARD				
		IN	INCH	ZVB	ZONE VALVE BOX				

NOTE: THIS IS A STANDARD LEGEND, SOME OF THE SYMBOLS SHOWN ON LEGEND ARE NOT NECESSARILY ON THE DRAWINGS.

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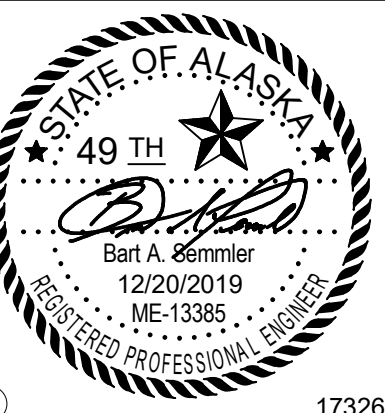
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HEALTH CENTER
YAKUTAT, ALASKA

Revisions

No.	Description	Date

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Sheet Contents
LEGEND AND ABBREVIATIONS

Sheet No.

M0.01

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Plot Date Time: 12/20/2019 4:57:03 PM

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PLUMBING FIXTURE CONNECTION SCHEDULE															
SYMBOL		FIXTURE		WASTE (INCH)		VENT (INCH)		HW (INCH)		CW (INCH)		POWER		REMARKS, BASIS OF DESIGN	
SECTION 224000 - PLUMBING FIXTURES															
P-1		WATER CLOSET		4		2		-		1		-		WALL MOUNTED, ELONGATED BOWL, BATTERY POWERED SENSOR OPERATED FLUSH VALVE.	
P-1H		WATER CLOSET		4		2		-		1		-		WALL MOUNTED, ELONGATED BOWL, BATTERY POWERED SENSOR OPERATED FLUSH VALVE, ADA COMPLIANT.	
P-1B		BARIATRIC WATER CLOSET		4		2		-		1		-		FLOOR MOUNTED, ELONGATED BOWL, BATTERY POWERED SENSOR OPERATED FLUSH VALVE, RATED FOR BARIATRIC USE, ADA COMPLIANT.	
P-2H		URINAL		2		1-1/2		-		3/4		-		WALL MOUNTED, BATTERY POWERED SENSOR OPERATED FLUSH VALVE, ADA COMPLIANT.	
P-3H		LAVATORY		1-1/2		1-1/2		1/2		1/2		-		COUNTER MOUNTED, VITREOUS CHINA, BATTERY POWERED SENSOR OPERATED FAUCET, ADA COMPLIANT, ASSE 1070 THERMOSTATIC MIXING VALVE.	
P-4H		LAVATORY		1-1/2		1-1/2		1/2		1/2		-		WALL MOUNTED, VITREOUS CHINA, BATTERY POWERED SENSOR OPERATED FAUCET, ADA COMPLIANT, ASSE 1070 THERMOSTATIC MIXING VALVE.	
P-5		EXAM ROOM SINK		1-1/2		1-1/2		1/2		1/2		-		INTEGRAL COUNTER-MOUNTED SINK, MANUAL FAUCET WITH VANDAL PROOF WRISTBLADE HANDLE, GOOSENECK SPOUT, LAMINAR FLOW, 4" FIXED CENTERS. SEE ARCHITECTURAL FOR SINK, ROUGH IN AND CONNECT.	
P-6H		STAFF LUNCHROOM SINK		1-1/2		1-1/2		1/2		1/2		-		STAINLESS STEEL, DOUBLE BOWL, 6-1/2" DEPTH, WITH SINGLE LEVER FAUCET, ADA COMPLIANT.	
P-7		LABORATORY SINK		1-1/2		1-1/2		1/2		1/2		-		INTEGRAL COUNTER-MOUNTED SINK, DOUBLE BOWL, 12" DEPTH, VACUUM BREAKER, VANDAL PROOF WRISTBLADE HANDLE, GOOSENECK SPOUT, LAMINAR FLOW.	
P-8H		SHOWER		-		-		1/2		1/2		-		PRESSURE BALANCING MIXING VALVE, HANDSHOWER WITH FLEXIBLE HOSE AND SLIDE BAR, SHOWERHEAD, ADA COMPLIANT. SEE FD-3 FOR SHOWER DRAIN.	
P-9		MOP SINK		3		2		3/4		3/4		-		FLOOR MOUNTED, 24" x 24", WITH MOP HANGER AND WALL-MOUNT FAUCET WITH VACUUM BREAKER.	
P-10		WASHER MACHINE SUPPLY & DRAIN		2		1-1/2		1/2		1/2		-		STEEL WITH EPOXY FINISH, HOT AND COLD ANGLED VALVES, 2" DRAIN CONNECTION.	
P-11		SANITARY CLINIC SINK		4		2		1/2		1		-		WALL MOUNTED, SINGLE-COMPARTMENT SCRUB SINK, REAR CENTER DRAIN, MANUAL FLUSH VALVE, FAUCET WITH WRISTBLADE HANDLES AND BEDPAN SPRAYER.	
EWS-1		EMERGENCY EYE WASH STATION		-		-		1/2		1/2		-		DECK MOUNTED, AUTOMATIC FLOW, 90 DEGREE SWING DOWN, STAINLESS STEEL, THERMOSTATIC MIXING VALVE.	
DF-1H		DRINKING FOUNTAIN		1-1/2		1-1/2		-		1/2		120V, 1PH 0.1 FLA		WALL MOUNTED, DUAL HEIGHT, NON-REFRIGERATED, BOTTLE FILL STATION, ADA COMPLIANT.	
HB-1		HOSE BIBB		-		-		-		3/4		-		FREEZE PROOF, AUTOMATIC DRAINING, INTEGRAL VACUUM BREAKER, FLUSH MOUNTED, KEY OPERATED DOOR.	
TV-1		DOMESTIC WATER TEMPERING VALVE		-		-		1-1/4		1-1/4		-		HI/LOW PACKAGED TEMPERING VALVE, WALL MOUNTED STAINLESS STEEL ENCLOSURE, 1-1/2" TEMPERED WATER OUTLET.	
FD-1		FLOOR DRAIN		3		2		-		-		-		MEDIUM DUTY, CAST IRON BODY WITH ADJUSTABLE POLISHED NICKEL BRONZE TOP.	
FD-2		FLOOR DRAIN		2		1-1/2		-		-		-		CAST IRON BODY WITH ADJUSTABLE POLISHED NICKEL BRONZE TOP.	
FS-1		FLOOR SINK		3		2		-		-		-		CAST IRON, WHITE ACID RESISTANT COATED INTERIOR, BRONZE TOP, HALF GRATE, DOME STRAINER.	
TP-1		NON-ELECTRONIC TRAP PRIMER		-		-		-		1/2		-		TRAP PRIMER WITH DISTRIBUTION UNIT.	
TP-2		ELECTRONIC TRAP PRIMER		-		-		-		1/2		120V, 1PH 0.23A		ELECTRONIC TRAP PRIMER WITH SURFACE OR RECESSED MOUNT CABINET, SOLENOID VALVE WITH DISTRIBUTION UNIT.	

MISCELLANEOUS EQUIPMENT SCHEDULE															
SYMBOL		LOCATION		MOTOR (HP,V,PH)		WEIGHT (LBS)		REMARKS, BASIS OF DESIGN							
SECTION 221100 - DOMESTIC WATER PIPING AND SPECIALTIES															
WH-1A WH-1B		MECH RM 149		-		855		DOMESTIC HOT WATER HEATER: 60-GALLON STORAGE CAPACITY, DOUBLE-WALL COIL, DIAL AQUASTAT. MFR: AMTROL COMMERCIAL PREMIER WHS-602C-DW							
SECTION 232113 - HYDRONIC PIPING AND SPECIALTIES															
AS-1		MECH RM		-		150		COMBINATION AIR AND DIRT AIR SEPARATOR: 4" FLANGED CONNECTIONS, 150 PSIG MAX WORKING PRESSURE, 270 DEG F MAX OPERATING TEMPERATURE. MFR: SPIROTHERM SPIROVENT VDT-400 FA.							
AS-2		MECH RM		-		140		COMBINATION AIR AND DIRT AIR SEPARATOR: 3" FLANGED CONNECTIONS, 150 PSIG MAX WORKING PRESSURE, 270 DEG F MAX OPERATING TEMPERATURE. MFR: SPIROTHERM SPIROVENT VDT-300 FA.							
GM-1		CENTRAL CHILLED GLYCOL MAKE-UP SYSTEM		0.7A, 120, 1		495		GLYCOL MAKE-UP PACKAGE; COMPLETE WITH PUMP, LOW LEVEL CUT-OFF AND ALARM ARRANGEMENT, PRIMING VALVE, SHUTOFF VALVE, STRAINER, PRESSURE TANK WITH PRESSURE CONTROL, REDUCING VALVE AND GAUGE, AND 55 GALLON CROSSLINKED POLYETHYLENE TANK WITH LID MOUNTED ON STEEL FRAME, 1.4 GPM MAKE-UP CAPACITY AT 50 PSI. FOR CENTRAL CHILLED GLYCOL SYSTEM. MFR: AXIOM SF100.							
GM-2		AHU-4 HEAT RECOVERY LOOP GLYCOL MAKE-UP SYSTEM		50W, 120, 1		175		GLYCOL MAKE-UP PACKAGE; COMPLETE WITH PUMP, LOW LEVEL CUT-OFF AND ALARM ARRANGEMENT, PRIMING VALVE, SHUTOFF VALVE, STRAINER, PRESSURE TANK WITH PRESSURE CONTROL, REDUCING VALVE AND GAUGE, AND 19 GALLON CROSSLINKED POLYETHYLENE TANK, 0.7 GPM MAKE-UP CAPACITY AT FREE FLOW. MFR: AXIOM MF300.							
SECTION 231113 - FUEL OIL PIPING AND SPECIALTIES															
DT-1		MECH RM		1/2, 120, 1		-		FUEL OIL DAY TANK: U.L. LISTED, 75 GALLON CAPACITY, SECONDARY CONTAINMENT, 7 GPM OVERFILL RETURN PUMP, PACKAGED TANK LEVEL CONTROL SYSTEM, HAND TRANSFER PUMP, LEAK SENSOR, GAS ALARM, MONITORING CONTACT, REMOTE FUEL TRANSFER FILL PUMPS (SEE RFP-1). MFRS: SIMPLEX.							
RFP-1		BLDG EXTERIOR AST-1 SITE		1/3, 120, 1		-		REMOTE FUEL TRANSFER PUMP SET: REMOTE MOUNTED ADJACENT TO AST-1 IN NEMA 4X (STAINLESS STEEL) CABINET, SUPPLY PUMP, STARTER, DOOR MOUNTED DISCONNECT WITH INTERLOCK, SHUT-OFF VALVES, PRESSURE RELIEF VALVE, CHECK VALVE, CONTAINMENT SUMP WITH LEAK SENSOR. MFR: SIMPLEX.							
SECTION 238123 - DEDICATED AIR-CONDITIONING UNITS															
AC-1		COMM RM (EVAPORATOR)		30W,208,1 MCA = 1A		30		PACKAGED AIR CONDITIONING UNIT: SPLIT-SYSTEM, R-410A REFRIGERANT, NOMINAL 1.5 TON CAPACITY, ONE 1.5 TON INDOOR EVAPORATING UNIT WALL MOUNTED IN COMM ROOM WITH INTEGRAL CONDENSATE PUMP AND ONE 1.5 TON OUTDOOR CONDENSING UNIT WALL MOUNTED IN GARAGE, PROVIDE WALL CONTROLLER. MFR: MITSUBISHI PKA-A18HA7 (INDOOR) AND PUY-A18NKA7 (OUTDOOR).							
		GARAGE (CONDENSER)		46W,208,1 MOCOP = 28A		100									

BOILER SCHEDULE						
SYMBOL	LOCATION	MOTOR (HP,V,PH)	INPUT (MBH)	OUTPUT (MBH)	WEIGHT (LBS)	REMARKS, BASIS OF DESIGN
SECTION 235223 - CAST IRON BOILERS AND ACCESSORIES						
BLR-1 BLR-2	MECHANICAL 149	1/3,120,1	770 (5.5 GPH OIL)	634	2,100	OIL-FIRED CAST IRON SECTIONAL WATER BOILER WITH LOW-HIGH-LOW-OFF POWER BURNER: 80 PSIG MAX WORKING PRESSURE, 30 PSIG ASME SAFETY RELIEF VALVE, GAUGES AND PACKAGED CONTROLS, R8184G COMBUSTION CONTROL, BACK OUTLET FLUE. BOILER: WEIL MCLEIN 680 BURNER: POWERFLAME WCR1-0.

EXPANSION TANK SCHEDULE						
SYMBOL	LOCATION	ACCEPTANCE VOL (GAL)	TANK VOL (GAL)	PRE-CHARGE (PSIG)	WEIGHT (LBS)	REMARKS, BASIS OF DESIGN
SECTION 221100 - DOMESTIC WATER PIPING AND SPECIALTIES						
ET-P1	MECH RM	9	14	55	185	DOMESTIC HOT WATER THERMAL EXPANSION TANK: ASME STAMPED, STEEL SHELL WITH BUTYL DIAPHRAGM, 175 PSIG MAX WORKING PRESSURE, 200 DEG F MAX OPERATING TEMPERATURE, RATED FOR POTABLE WATER USE. MFR: AMTROL ST-30VC
SECTION 232113 - HYDRONIC PIPING AND SPECIALTIES						
ET-1	MECH RM	34	68	18.0	500 (WET)	HYDRONIC HEATING SYSTEM EXPANSION TANK: ASME STAMPED, STEEL SHELL WITH BUTYL DIAPHRAGM, 125 PSIG MAX WORKING PRESSURE, 240 DEG F MAX OPERATING TEMPERATURE, WITH MFR'S SEISMIC RESTRAINTS. AMTROL EXTROL AX-120V.
ET-2	MECH RM	11.3	21.7	18.0	200 (WET)	GLYCOL COOLING SYSTEM EXPANSION TANK: ASME STAMPED, STEEL SHELL WITH BUTYL DIAPHRAGM, 125 PSIG MAX WORKING PRESSURE, 240 DEG F MAX OPERATING TEMPERATURE, WITH MFR'S SEISMIC RESTRAINTS. AMTROL EXTROL AX-40V.
ET-3	FAN RM	2.4	8.0	12.0	60 (WET)	AHU-4 GLYCOL HEAT RECOVERY EXPANSION TANK: ASME STAMPED, STEEL SHELL WITH BUTYL DIAPHRAGM, 125 PSIG MAX WORKING PRESSURE, 240 DEG F MAX OPERATING TEMPERATURE, WITH MFR'S SEISMIC RESTRAINTS. AMTROL EXTROL AX-15V.

PUMP SCHEDULE								
SYMBOL	LOCATION	SERVICE	FLUID	TEMP. (DEG F)	GPM	HEAD (FT)	MOTOR (HP,V,PH)	REMARKS BASIS OF DESIGN
SECTION 213000 - FIRE PUMPS								
FP-1	FIRE PUMP 154	FIRE WATER	WATER	60	500	40 (PSI)	20,208.3	FIRE SUPPRESSION BOOSTER PUMP: 6-4-INCH IMPELLER, UL AND FM CERTIFIED. A-C FIRE PUMP 4X4X7F
JP-1	FIRE PUMP 154	FIRE WATER	WATER	60	7	80 (PSI)	3/4,208.3	FIRE SUPPRESSION PRESSURE MAINTENANCE PUMP: 7 STAGE, 3,500 RPM. A-C FIRE PUMP E-SV SERIES MODEL 1SV
SECTION 221100 - DOMESTIC WATER PIPING AND SPECIALTIES								
PMP-P1	MECH RM	DOMESTIC HWC	WATER	115	14	12	1/12,115.1	DOMESTIC HOT WATER CIRCULATION PUMP: STAINLESS STEEL FOR POTABLE WATER. ECM MOTOR. B&G ECOCIRC XL N 20-35
SECTION 221300 - SANITARY WASTE AND VENT PIPING AND SPECIALTIES								
PMP-P2	ELEVATOR PIT SUMP	SUMP PUMP	WATER	70	50	20	1/2,115.1	PACKAGED SUBMERSIBLE SUMP PUMP: 2" DISCHARGE CONNECTION, STAINLESS STEEL CONSTRUCTION WITH PUMP BASE, CONTROL ALARM PANEL, OIL AND LEVEL SENSOR PROBES. STANCOR SE-50
SECTION 232114 - HVAC PUMPS								
PMP-1 PMP-2	MECH RM	BOILER CIRC	WATER	190	45	15	1/2,115.1	INLINE CENTRIFUGAL CIRCULATOR PUMP: CAST IRON CONSTRUCTION, 2" FLANGE CONNECTIONS, 3450 RPM. TACO 2400-70-3F.
PMP-3A PMP-3B	MECH RM	BLDG HEATING CIRC	WATER	190	120	40	3,208.3 (VSD)	VERTICAL INLINE CENTRIFUGAL PUMP: CAST IRON CONSTRUCTION, 2" FLANGE CONNECTIONS, 1760 RPM. TACO 1941.
PMP-4A PMP-4B	MECH RM	BLDG COOLING CIRC	40% PG	42	65	60	3,208.3	VERTICAL INLINE CENTRIFUGAL PUMP: CAST IRON CONSTRUCTION, 1-1/2" FLANGE CONNECTIONS, 3500 RPM. TACO 1911.
PMP-5A PMP-5B	FAN RM	AHU-4 HEAT RECOVERY CIRC	40% PG	40	15	50	3/4,208.3 (VSD)	INLINE CENTRIFUGAL CIRCULATOR PUMP: DUCTILE IRON CONSTRUCTION, 1-1/2" FLANGE CONNECTIONS, ECM MOTOR. TACO 1915E-F.
PMP-6	EXERCISE EQPT CEILING	RADIANT FLOOR CIRC	WATER	130	1.5	12	1/25,115.1	INLINE CARTRIDGE CIRCULATOR PUMP: CAST IRON CONSTRUCTION, 3/4" FLANGE CONNECTIONS. TACO 008-F6
PMP-7A PMP-7B	FAN RM	AHU-1 HEATING COIL CIRC	WATER	190	8	6	1/25,115.1	INLINE CENTRIFUGAL CIRCULATOR PUMP: CAST IRON CONSTRUCTION, 1" FLANGE CONNECTIONS. TACO 008-F6
PMP-8A PMP-8B	FAN RM	AHU-2 HEATING COIL CIRC	WATER	190	7	6	1/25,115.1	INLINE CENTRIFUGAL CIRCULATOR PUMP: CAST IRON CONSTRUCTION, 1" FLANGE CONNECTIONS. TACO 008-F6
PMP-9A PMP-9B	FAN RM	AHU-3 HEATING COIL CIRC	WATER	190	10	4	1/25,115.1	INLINE CENTRIFUGAL CIRCULATOR PUMP: CAST IRON CONSTRUCTION, 1" FLANGE CONNECTIONS. TACO 008-F6

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AIR-COOLED CHILLER SCHEDULE

SYMBOL	LOCATION	CAPACITY (TON)	REFRIGERANT TYPE	EVAPORATOR				MOTOR (HP,V,PH)	WEIGHT (LBS)	REMARKS, BASIS OF DESIGN
				EFT (DEG F)	LFT (DEG F)	FLOW (GPM)	MAX PD (PSI)			
SECTION 236400 - PACKAGED WATER CHILLERS										
CH-1	BLDG EXTERIOR	34.0	R-410A	56	42	63	3	142 MCA, 175 MOP, 208V, 3PH	3,000	AIR-COOLED CHILLER: TWO REFRIGERANT CIRCUITS, 4 SCROLL COMPRESSORS, ELECTROFIN CONDENSER COILS, STAINLESS STEEL BRAZED PLATE EVAPORATOR, 4 CONDENSER FANS, CAPACITY BASED UPON 40% PG SOLUTION. MFR: MULTISTACK MODEL: ASC031XC-410A.

TERMINAL HEATING UNIT SCHEDULE

SYMBOL	LOCATION	OUTPUT (MBH) (1)	FLUID	FLOW (GPM)	MAX WPD (FT)	FLUID TEMP IN/OUT (DEG F)	MOTOR (HP,V,PH)	WEIGHT (LBS)	REMARKS, BASIS OF DESIGN
SECTION 238200 - TERMINAL HEATING AND COOLING UNITS									
CUH-1	ENTRY VESTIBULE 100	28.9	WATER	2.0	1.4	190/160	1/30,115,1	100	RECESSED CEILING-MOUNTED CABINET UNIT HEATER: 2 ROW COIL, 2-SPEED FAN (325 CFM, HIGH SPEED), 1 FAN MOTOR, FLAT FILTER, KEYLOCK ACCESS DOORS, TAMPER PROOF FASTENERS, INVERTED FLOW. MODINE CW 003
CUH-2	VESTIBULE 155 (NORTH)	20.1	WATER	1.5	1.1	190/160	1/30,115,1	100	RECESSED CEILING-MOUNTED CABINET UNIT HEATER: 2 ROW COIL, 2-SPEED FAN (250 CFM, HIGH SPEED), 1 FAN MOTOR, FLAT FILTER, KEYLOCK ACCESS DOORS, TAMPER PROOF FASTENERS, INVERTED FLOW. MODINE CW 002
CUH-3	STAIR 2 S2-1	28.9	WATER	2.0	1.4	190/160	1/30,115,1	100	SURFACE WALL-MOUNTED CABINET UNIT HEATER: 2 ROW COIL, 2-SPEED FAN (325 CFM, HIGH SPEED), 1 FAN MOTOR, FLAT FILTER, KEYLOCK ACCESS DOORS, TAMPER PROOF FASTENERS, INVERTED FLOW. MODINE CW 003
UH-1	GARAGE 136	69.5	WATER	5.0	1.0	190/160	1/8,115,1	80	HORIZONTAL UNIT HEATER: 2010 CFM, AIR DEFLECTORS, SAFETY GUARD. MODINE HC 108
UH-2	ELECTRICAL 137	13.5	WATER	1.0	0.3	190/160	1/25,115,1	20	HORIZONTAL UNIT HEATER: 370 CFM, AIR DEFLECTORS, SAFETY GUARD. MODINE HC 24
UH-3	MECHANICAL 153	47.7	WATER	3.0	0.3	190/160	1/8,115,1	55	HORIZONTAL UNIT HEATER: 1340 CFM, AIR DEFLECTORS, SAFETY GUARD. MODINE HC 86
UH-4	FAN ROOM 211 (NORTH)	16.2	WATER	1.0	0.01	190/160	1/25, 115,1	40	HORIZONTAL UNIT HEATER: 630 CFM, AIR DEFLECTORS, SAFETY GUARD, MODINE HC 33
UH-5	FAN ROOM 201 (SOUTH)	16.2	WATER	1.0	0.01	190/160	1/25,115,1	40	SAME AS UH-4.
UH-6	FIRE PUMP ROOM 154	13.5	WATER	1.0	0.3	190/160	1/25,115,1	20	SAME AS UH-2.
FT-1	SEE PLANS	1110 BTULF	WATER	SEE PLANS	-	190/160	-	-	FINNED TUBE BASEBOARD: FLAT TOP ENCLOSURE, 14 INCH CABINET HEIGHT, 3/4 INCH COPPER TUBING, SINGLE TIER OF FINS, 4-1/4 INCH BY 3-5/8 INCH ALUMINUM FINS, 50 FINS PER FOOT. STERLING JVB-AR C3/4-435 14B ENCLOSURE.
RP-1	SEE PLANS	438 BTULF	WATER	SEE PLANS	-	190/160	-	-	RADIANT CEILING PANEL: 4 PASS 24" WIDE LINEAR METAL PANEL, FLUSH SURFACE MOUNT WITH BORDER FOR GYP CEILING, MULTIPLE PANELS IN SAME ZONE PIPED IN PARALLEL. STERLING LINEAR.

NOTES:
(1) SCHEDULED MBH OUTPUT IS REQUIRED HEAT LOAD FOR ROOM CONDITIONING.

HEAT EXCHANGER SCHEDULE

SYMBOL	LOCATION	HOT SIDE FLUID	GPM	TEMP IN (F)	TEMP OUT (F)	MAX WPD (PSI)	COLD SIDE FLUID	GPM	TEMP IN (F)	TEMP OUT (F)	MAX WPD (PSI)	MIN OUTPUT (MBH)	WEIGHT (LBS)	REMARKS BASIS OF DESIGN
SECTION 232113 - HYDRONIC PIPING AND SPECIALTIES														
HX-1	FAN RM	WATER	8.0	190.0	161.6	0.25	40% PG	15.0	41.0	57.0	2.50	111.0	7.5	AHU-4 HEAT RECOVERY HEAT EXCHANGER: BRAZED PLATE TYPE, 10 PLATES. B&G BP411-10

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EXTERIOR FUEL OIL TANK SCHEDULE

SYMBOL	LOCATION	NOMINAL SIZE (GAL)	DIA (INCHES)	LENGTH (INCHES)	FOS CONN		FOR CONN		NORMAL VENT INNER (INCH)	NORMAL VENT OUTER (INCH)	EMER VENT INNER (INCH)	EMER VENT OUTER (INCH)	FILL SIZE (INCH)	GAGE CONN (INCH)	WEIGHT (LBS)	REMARKS, BASIS OF DESIGN
					QTY	SIZE (INCH)	QTY	SIZE (INCH)								
SECTION 231323 - ABOVE GROUND STORAGE TANKS																
AST-1	BLDG EXTERIOR	3,000	76	168	1	3/4	1	1	2	2	6	6	4	2	6,400 DRY WEIGHT	ABOVE GROUND FUEL OIL STORAGE TANK: UL 142 LISTED, TYPE 1 DOUBLE-WALL STEEL CONSTRUCTION, SKID-MOUNT BASE WITH TOW BAR, TOP CONNECTIONS FOR FILL, GAUGES, VENT, EMERGENCY VENT, ACCESS LADDER. MFR: ANCHORAGE TANK AND WELDING.

RADIANT HEATING ZONE SCHEDULE

SYMBOL	AREA SERVED	SERVICE	AREA (SF)	MBH	NO. OF CIRCUITS	GPM	HEAD LOSS (FEET)	FLUID TEMP SUP / RTN (DEG F)	FLUID	TUBE DIA (INCH)	TUBE SPACING (INCH)	CIRCUIT LENGTH (FEET)
SECTION 238300 - RADIANT FLOOR HEATING EQUIPMENT												
RHZ-1	SAUNAS, LOCKER RM SHOWER AREAS	RADIANT FLOOR HEATING	205	4.6	2	1.2	2.0	92/82	WATER	5/8	9	200
NOTES: (1) CIRCUIT LENGTHS INCLUDE 10 FOOT LEADER LENGTHS. (2) INSTALL TUBES EMBEDDED IN CONCRETE.												

HEATING COIL SCHEDULE

SYMBOL	LOCATION	MBH	SCFM	AIR TEMP (IN/OUT)	SIZE (INCH)	MAX VEL (FPM)	MAX APD (IN WC)	FLUID	GPM	FLUID TEMP IN/OUT (DEG F)	MAX WPD (FT)	REMARKS BASIS OF DESIGN
SECTION 237000 - CENTRAL AIR HANDLING UNITS												
HC-1	AHU-1	118	4,000 (HEAT) 5,000 (MAX)	41/68	48" H X 30" L	500	0.13	WATER	8.0	190/160	2.5	AHU-1 HEATING COIL: 1 ROW, 6 FPI, WITH TURBULATORS. PRECISION COILS HW58S01S06-48X30-RH
HC-2	AHU-2	102	3,200 (HEAT) 5,000 (MAX)	42/71	48" H X 30" L	500	0.11	WATER	6.8	190/160	3.1	AHU-2 HEATING COIL: 1 ROW, 6 FPI, WITH TURBULATORS. PRECISION COILS HW58S01S06-48X30-RH
HC-3	AHU-3	141	5,000 (HEAT) 9,000 (MAX)	53/79	78" H X 34" L	500	0.10	WATER	9.6	190/160	0.1	AHU-3 HEATING COIL: TWO 39" H x 34" L COILS STACKED VERTICALLY IN AHU CABINET, 1 ROW, 6 FPI, WITH TURBULATORS. PRECISION COILS HW58F01H06-39X34-RH
HC-4	AHU-4	44	1,500 (HEAT) 2,000 (MAX)	40/67	24" H X 24" L	500	0.10	WATER	3.0	190/160	5.0	AHU-4 HEATING COIL: 1 ROW, 6 FPI, WITH TURBULATORS. PRECISION COILS HW58F01A06-24X24-RH
RC-4A	AHU-4 OSA INTAKE	52	2,000	16/40	24" H X 24" L	500	0.41	40% PG	15.0	48/40	10.1	AHU-4 HEAT RECOVERY COIL: 6 ROWS, 8 FPI, WITH TURBULATORS. PRECISION COILS HW58S06S08-24X24-RH
RC-4B	AHU-4 EXHAUST	52	2,000	70/46	24" H X 24" L	500	0.51	40% PG	15.0	40/48	11.3	AHU-4 HEAT RECOVERY COIL: 6 ROWS, 8 FPI, WITH TURBULATORS. PRECISION COILS CW58S06S08-24X24-RH
NOTES: (1) USE HEATING CFM FOR MBH, AIR TEMP, FLUID TEMP IN/OUT, AND GPM VALUES. USE MAX CFM FOR MAX VELOCITY AND MAX APD.												

EXHAUST AIR VALVE SCHEDULE

VALVE NO.	ROOM NO.	ROOM NAME	SERVICE DESCRIPTION	EXHAUST SYSTEM	MIN UNOCC CFM	MIN OCC CFM	MAX CFM	MAX SPD (IN WC)	CONTROL TYPE	ACTUATOR SPEED (2)	MATERIAL (3)	SIZE (4)
SECTION 233600 - AIR TERMINAL UNITS												
EAV-401	226	DENTAL PROC CLOSED	ROOM EXHAUST	AHU-4	80	350	350	0.05	(1)	SA	GS	8
EAV-402	227	DENTAL STERILE	ROOM EXHAUST	AHU-4	70	350	650	0.05	(1)	SA	GS	10
EAV-403	224	DENTAL PROC OPEN	ROOM EXHAUST	AHU-4	0	250	300	0.05	(1)	SA	GS	8
EAV-404	225	DENTAL LAB	ROOM EXHAUST	AHU-4	70	200	350	0.05	(1)	SA	GS	8
EAV-405	222/223	DENTAL TOILET/OFFICE	ROOM EXHAUST	AHU-4	0	100	100	0.05	(1)	SA	GS	6
EAV-406	238	DENTAL OFFICE	ROOM EXHAUST	AHU-4	0	100	150	0.05	(1)	SA	GS	6
(1) SUPPLY AND EXHAUST CFM OFFSET. (2) FA = FAST SPEED ACTUATOR. SA = STANDARD SPEED ACTUATOR. (3) SS = STAINLESS STEEL CONSTRUCTION. GS = GALVANIZED STEEL CONSTRUCTION. (4) BASIS OF DESIGN: TITUS DECV.												

VAV BOX LIST

BOX TYPE	MIN CFM	MAX CFM	MAX APD (1) (IN WC)	MAX COIL GPM	MAX COIL WPD, (FT)	WEIGHT (LBS) (5)	REMARKS (2) (3)
SECTION 233600 - AIR TERMINAL UNITS							
A	80	400	0.25	1.00	0.5	37	6" INLET, 12"W X 8"H OUTLET WITH 1 ROW COIL.
B	110	550	0.25	1.50	1.5	39	7" INLET, 12"W X 10"H OUTLET WITH 1 ROW COIL.
C	150	700	0.25	2.00	2.6	39	8" INLET, 12"W X 10"H OUTLET WITH 1 ROW COIL.
D	180	900	0.20	2.50	1.1	46	9" INLET, 14"W X 12.5"H OUTLET WITH 1 ROW COIL.
E	230	1,100	0.25	2.50	1.1	46	10" INLET, 14"W X 12.5"H OUTLET WITH 1 ROW COIL.
F	330	1,600	0.25	4.00	3.3	53	12" INLET, 16"W X 15"H OUTLET WITH 1 ROW COIL.
G	450	2,400	0.30	5.00	2.5	54	14" INLET, 20"W X 17.5"H OUTLET WITH 1 ROW COIL.
H	580	3,200	0.35	7.00	4.8	68	16" INLET, 24"W X 18"H OUTLET WITH 1 ROW COIL.
J	1,400	4,000	0.25	8.00	7.1	100	24"X16" INLET, 38"W X 18"H OUTLET WITH 1 ROW COIL.
NOTES: (1) AIR SIDE PRESSURE DROP FOR ENTIRE VAV ASSEMBLY, INCLUDING HEATING COIL. (2) BASIS OF DESIGN: TITUS DESV. (3) REFER TO VAV BOX LIST FOR HEATING COIL CAPACITIES. (4) HEATING FLUID IS WATER, EFT: 190 DEGREES F, LFT: 160 DEGREES F. (5) INCLUDES VAV BOX AND COIL, NOT PLENUM.							

VAV TERMINAL UNIT SCHEDULE

VAV- NUMBER	SERVES	AHU	MIN CFM	MAX HEAT. CFM	MAX COOL. CFM	EAT (DEG F)	LAT (DEG F)	MAX APD (IN WC)	COIL MBH (1)	COIL ROWS	COIL GPM	BOX TYPE (2)
SECTION 233600 - AIR TERMINAL UNITS												
101	SUPPLY 135	AHU-1	200	200	200	55	90	0.25	7.6	1	0.55	A
102	EXAM TYP 133	AHU-1	150	150	150	55	97	0.25	6.8	1	0.55	A
103	EXAM PEDS 131	AHU-1	150	150	150	55	97	0.25	6.8	1	0.55	A
104	PHARMACY 132	AHU-1	150	150	150	55	97	0.25	6.8	1	0.55	A
105	CLEAN 134	AHU-1	100	100	100	55	100	0.25	4.9	1	0.33	A
106	EXAM ISOLATION 124	AHU-1	200	200	200	55	90	0.25	7.6	1	0.55	A
107	EXAM BARIATRIC 122	AHU-1	150	150	150	55	97	0.25	6.8	1	0.55	A
108	LAB 123	AHU-1	350	350	350	55	88	0.25	12.5	2	0.55	A
109	CONFERENCE 143	AHU-1	250	250	450	55	90	0.25	9.6	1	0.55	C
110	BEHAVIORAL HEALTH 141	AHU-1	160	160	160	55	95	0.25	7.0	1	0.55	A
111	CIRCULATION 120	AHU-1	450	450	450	55	86	0.25	15.3	2	0.55	C
112	TREATMENT 145	AHU-1	230	230	230	55	90	0.25	8.7	1	0.75	A
113	TREATMENT 147	AHU-1	230	230	230	55	90	0.25	8.7	1	0.75	A
114	PARAMEDIC 149	AHU-1	100	100	180	55	98	0.25	4.7	1	0.55	A
115	SOILED UTILITY 138	AHU-1	150	150	150	55	88	0.25	5.4	1	0.33	A
116	CLEAN LAUNDRY 152	AHU-1	100	100	150	55	97	0.25	4.5	1	0.33	A
117	MORGUE 154	AHU-1	100	100	100	55	100	0.25	4.9	1	0.33	A
118	BREAKROOM 212	AHU-1	350	350	500	55	88	0.25	12.5	1	1.00	C
119	BUNK 214	AHU-1	120	120	120	55	95	0.25	5.3	1	0.33	A
120	BUNK 216	AHU-1	120	120	120	55	95	0.25	5.3	1	0.33	A
201	LOCKERS/SAUNAS	AHU-2	400	400	400	55	86	0.25	13.1	1	1.00	C
202	MASSAGE 117	AHU-2	250	250	250	55	86	0.25	8.5	1	0.55	A
203	WELLNESS EXERCISE 118	AHU-2	2,490	2,490	4,150	55	80	0.25	68.7	1	3.00	J
301	IN-OUT 107/108	AHU-3	440	440	440	55	94	0.25	18.5	2	0.75	C
302	LOBBY 101	AHU-3	1,350	1,350	2,700	55	80	0.25	36.3	1	1.50	H
303	EAST OFFICES	AHU-3	180	180	300	55	93	0.25	7.3	1	0.55	A
304	WORK ROOM 129	AHU-3	700	700	1,400	55	86	0.25	23.2	1	1.50	F
305	CIRCULATION 200	AHU-3	500	500	500	55	90	0.25	19.2	2	0.75	C
306	CONFERENCE 220	AHU-3	400	400	650	55	85	0.25	13.2	1	1.00	C
307	FLEX SPACE 209	AHU-3	300	300	700	55	89	0.25	11.1	1	0.75	C
308	SUPPLY ADMIN 202	AHU-3	70	70	150	55	110	0.25	4.2	1	0.33	A
309	OPEN OFFICE 207A	AHU-3	250	250	400	55	90	0.25	9.6	1	0.55	C
310	WEST OFFICES	AHU-3	180	180	450	55	90	0.25	6.9	1	0.33	C
311	OPEN OFFICE 207B	AHU-3	325	325	650	55	88	0.25	11.6	1	0.75	C
312	FLEX SPACE 210	AHU-3	450	450	900	55	86	0.25	15.4	1	1.00	E
401 (3)	CLOSED DENTAL 226	AHU-4	250	250	250	55	88	0.25	9.0	1	0.75	A
402 (3)	DENTAL STERILE 227	AHU-4	250	250	550	55	90	0.25	9.6	1	0.55	C
403 (3)	OPEN PROCEDURE 224	AHU-4	250	250	300	55	90	0.25	9.8	1	0.55	C
404 (3)	DENTAL LAB 225	AHU-4	100	100	250	55	98	0.25	4.7	1	0.33	A
405 (3)	DENTAL OFFICE 222	AHU-4	100	100	100	55	100	0.25	4.9	1	0.33	A
406 (3)	DENTAL OFFICE 238	AHU-4	100	100	150	55	100	0.25	4.9	1	0.33	A
407 (3)	CIRCULATION 221	AHU-4	400	400	400	55	85	0.25	13.2	1	1.00	C
NOTES: (1) SUBMITTALS SHALL INDICATE HEATING CAPACITY AT HEATING CFM (2) REFERENCE VAV BOX SCHEDULE FOR BOX DESCRIPTION. (3) VAV-407 MINIMUM CFM DURING UNOCCUPIED MODE IS 220 CFM; REMAINDER OF VAV BOXES ON AHU-4 MINIMUM CFM DURING UNOCCUPIED IS 0 CFM.												

FAN SCHEDULE

SYMBOL	LOCATION	USE	SCFM	SP (IN WC)	FAN RPM	MOTOR (HP,V,PH)	WEIGHT (LBS)	REMARKS BASIS OF DESIGN
SECTION 233400 - FANS								
EF-1	FAN RM 211	CLINIC GENERAL EXHAUST	1,300	0.85	1,588	1/2,115,1	56	INLINE EXHAUST FAN: EC MOTOR WITH SPEED CONTROL FOR BALANCING AND CONTROL, MOTORIZED ISOLATION DAMPER. GREENHECK SQ-120-VG
EF-2	FAN RM 201	WELLNESS AREA EXHAUST	1,050	0.65	1,647	1/4,115,1	47	INLINE EXHAUST FAN: EC MOTOR WITH SPEED CONTROL FOR BALANCING AND CONTROL, MOTORIZED ISOLATION DAMPER. GREENHECK SQ-100-VG
EF-3	FAN RM 201	LOBBY & OFFICES GENERAL EXHAUST	1,280	0.85	1,576	1/2,115,1	56	INLINE EXHAUST FAN: EC MOTOR WITH SPEED CONTROL FOR BALANCING AND CONTROL, MOTORIZED ISOLATION DAMPER. GREENHECK SQ-120-VG
EF-4	FAN RM 211	MORGUE EXHAUST	200	0.65	1,670	1/4,115,1	49	INLINE EXHAUST FAN: EC MOTOR WITH SPEED CONTROL FOR BALANCING AND CONTROL, MOTORIZED ISOLATION DAMPER. GREENHECK SQ-97-VG
EF-5	FAN RM 211	AIRBORNE INFECTION ISOLATION EXHAUST	300	1.1	2,294	1/2,115,1	54	INLINE EXHAUST FAN: EC MOTOR WITH SPEED CONTROL FOR BALANCING AND CONTROL, MOTORIZED ISOLATION DAMPER. GREENHECK SQ-97-VG
EF-6	GARAGE	GARAGE EXHAUST	350	0.5	1,570	1/10,115,1	50	INLINE EXHAUST FAN: EC MOTOR WITH SPEED CONTROL FOR BALANCING AND CONTROL, MOTORIZED ISOLATION DAMPER. GREENHECK SQ-90-VG
EF-7	LAUNDRY - SOILED	DRYER BOOSTER EXHAUST	500	1.0	-	1/2,115,1	40	INDOOR BOOSTER FAN: CONSTANT OPERATING PRESSURE CONTROLLER, SIDEWALL VENT HOOD, IN-LINE ELBOW KIT. TJERNLUND CDB8
SCF-1	MECH RM	MECH RM COOLING	850	0.5	2,271	3/4,208,3	287	MODULAR SMALL CABINET FAN. MIXING BOX WITH FILTERS, RETURN DAMPER ON BOTTOM, BELT DRIVE FAN. GREENHECK MSCF-20L-FC

LOUVER SCHEDULE

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AIR INLET/OUTLET SCHEDULE							
SYMBOL	SCFM MAX	MAX NC	MAX APD (IN WC)	ACTIVE FACE SIZE (INCH)	DUCT SIZE (INCH)	BASIS OF DESIGN	REMARKS
SECTION 233700 - AIR OUTLETS AND INLETS							
SA	100	19	0.05	24X24	6 DIA	TITUS MCD-AA	CEILING SUPPLY DIFFUSER: ALUMINUM, 24X24 MODULE, ADJUSTABLE PATTERN, ROUND NECK, COORDINATE BORDER TYPE WITH RCP.
SB	200	19	0.03	24X24	8 DIA	TITUS MCD-AA	SAME AS SA, EXCEPT SIZE.
SC	300	18	0.04	24X24	10 DIA	TITUS MCD-AA	SAME AS SA, EXCEPT SIZE.
SD	400	18	0.04	24X24	12 DIA	TITUS MCD-AA	SAME AS SA, EXCEPT SIZE.
SE	550	19	0.12	18X8	18X8	TITUS S-DL	DUCT MOUNTED DRUM LOUVER DIFFUSER: ALUMINUM, ADJUSTABLE HORIZONTAL AND VERTICAL THROW, FELT SEAL FOR DIRECT DUCT MOUNTING.
SF	530	22	0.07	18X8	18X8	TITUS S300FL	DUCT MOUNTED DIFFUSER: ALUMINUM, ADJUSTABLE HORIZONTAL AND VERTICAL THROW, FOAM GASKET FOR DIRECT DUCT MOUNTING.
SG	650	-	0.04	15 DIA	14 DIA	SEIHO NX14	ROUND WALL SUPPLY DIFFUSER: ALUMINUM, ADJUSTABLE AIR DIRECTION, REVERSIBLE CENTER CONES FOR NARROW OR WIDE JET PATTERN.
EA	150	-	0.01	8x8	8x8	TITUS 50F	CEILING EXHAUST GRILLE: ALUMINUM, 1/2" X 1/2" X 1/2" EGGCRATE GRID, COORDINATE BORDER TYPE WITH RCP.
EB	400	-	0.02	12x12	12x12	TITUS 50F	CEILING EXHAUST GRILLE: ALUMINUM, 1/2" X 1/2" X 1/2" EGGCRATE GRID, COORDINATE BORDER TYPE WITH RCP.
EC	300	-	0.02	18X10	18X10	TITUS 350RL	WALL EXHAUST GRILLE: STEEL, 3/4" BLADE SPACING, 35 DEGREE DEFLECTION, BLADES PARALLEL TO LONG DIMENSION, SURFACE MOUNT BORDER.
RA	160	-	0.06	24X24	8 DIA	TITUS PAR-AA	CEILING RETURN GRILLE: ALUMINUM, PERFORATED FACE, 3/16" HOLES ON STAGGERED CENTERS. COORDINATE BORDER TYPE WITH RCP.
RB	230	-	0.06	24X24	10 DIA	TITUS PAR-AA	CEILING RETURN GRILLE: ALUMINUM, PERFORATED FACE, 3/16" HOLES ON STAGGERED CENTERS. COORDINATE BORDER TYPE WITH RCP.
RC	325	12	0.06	24X24	12 DIA	TITUS PAR-AA	CEILING RETURN GRILLE: ALUMINUM, PERFORATED FACE, 3/16" HOLES ON STAGGERED CENTERS. COORDINATE BORDER TYPE WITH RCP.
RD	450	15	0.06	24X24	14 DIA	TITUS PAR-AA	CEILING RETURN GRILLE: ALUMINUM, PERFORATED FACE, 3/16" HOLES ON STAGGERED CENTERS. COORDINATE BORDER TYPE WITH RCP.
RE	1,050	14	0.05	24X14	24X14	TITUS 350RL	WALL RETURN GRILLE: STEEL, 3/4" BLADE SPACING, 35 DEGREE DEFLECTION, BLADES PARALLEL TO LONG DIMENSION, SURFACE MOUNT BORDER.

SILENCER SCHEDULE							
SYMBOL	LOCATION	FLOW (SCFM)	MAX APD (IN WC)	FACE AREA (SQ FT)	LENGTH (INCH)	WEIGHT (LBS)	REMARKS, BASIS OF DESIGN
SECTION 233300 - DUCT ACCESSORIES							
SDS-3	WOMENS LOCKER 115	2,140	0.10	16" DIA (1.4 SF)	60	90	SUPPLY AIR DUCT SILENCER FOR AHU-3 ROUND SILENCER, FORWARD AIR DIRECTION. PRICE MODEL CS
RDS-1	FAN ROOM 211	4,000	0.10	22" DIA (2.2 SF)	60	180	RETURN AIR DUCT SILENCER FOR AHU-1 ROUND SILENCER, REVERSE AIR DIRECTION. PRICE MODEL CS
RDS-2	CIRCULATION WELNESS 112	4,160	0.10	26X26 (4.7 SF)	60	100	RETURN AIR DUCT SILENCER FOR AHU-2 ELBOW SILENCER, REVERSE AIR DIRECTION. PRICE MODEL ERM
RDS-3	CIRCULATION 104	4,400	0.10	26" DIA (3.7 SF)	60	210	RETURN AIR DUCT SILENCER FOR AHU-3 ROUND SILENCER, REVERSE AIR DIRECTION. PRICE MODEL CS
RDS-4	FAN ROOM 211	2,000	0.10	16" DIA (1.4 SF)	60	110	RETURN AIR DUCT SILENCER FOR AHU-4 ROUND SILENCER, REVERSE AIR DIRECTION. PRICE MODEL CS

DYNAMIC INSERTION LOSS (dB)										
SILENCER	OCTAVE BAND	1	2	3	4	5	6	7	8	FACE VELOCITY, FPM
	FREQ.	63	125	250	500	1K	2K	4K	8K	
SDS-3	DIL SN	5 41	8 33	21 30	39 27	38 27	22 10	16 12	17 10	+1550
RDS-1	DIL SN	5 48	7 40	16 38	35 35	37 34	26 18	19 21	15 10	-1550
RDS-2	DIL SN	8 43	13 37	18 31	22 16	25 33	22 31	20 28	18 19	-900
RDS-3	DIL SN	5 46	8 39	19 35	38 33	42 32	35 15	23 17	19 10	-1200
RDS-4	DIL SN	6 44	9 36	24 33	41 31	44 30	34 13	28 16	22 10	-1450
NOTE: DIL=DYNAMIC INSERTION LOSS, MINIMUM SN=RESULTANT SELF GENERATED NOISE, MAXIMUM										

AIR HANDLING UNIT SCHEDULE												
SYMBOL	LOCATION AND SERVICE	FAN SERVICE	SCFM	EXT / INT SP (IN WC)	FAN				MOTOR (HP,V,PH)	COIL NO	WEIGHT (LBS)	REMARKS, BASIS OF DESIGN
					SIZE (INCH)	TYPE	RPM	EFF				
SECTION 237000 - CENTRAL AIR HANDLING UNITS												
AHU-1	FAN ROOM 235	S/A	5,000	2.0 / 2.6	15 (x2)	PLENUM (TYP OF 2)	2,795	65%	5,208.3 (TYP OF 2)	HC-1 CC-1	5,850	INDOOR CUSTOM AIR HANDLING UNIT: 2" INSULATED DOUBLE WALL CONSTRUCTION, DUAL DIRECT DRIVE PLENUM SUPPLY FANS, DUAL DIRECT DRIVE PLENUM RETURN FANS. DEDICATED VSD FOR EACH FAN. HAAKON.
	MEDICAL CLINIC	R/A	4,000	1.0 / 0.4	15 (x2)	PLENUM (TYP OF 2)	1,744	65%	2,208.3 (TYP OF 2)			
AHU-2	FAN ROOM 216	S/A	5,000	1.5 / 2.6	15 (x2)	PLENUM (TYP OF 2)	2,569	65%	5,208.3 (TYP OF 2)	HC-2 CC-2	5,480	INDOOR CUSTOM AIR HANDLING UNIT: 2" INSULATED DOUBLE WALL CONSTRUCTION, DUAL DIRECT DRIVE PLENUM SUPPLY FANS, DUAL DIRECT DRIVE PLENUM RETURN FANS. DEDICATED VSD FOR EACH FAN. HAAKON.
	WELLNESS ACTIVITY	R/A	4,500	0.8 / 0.4	15 (x2)	PLENUM (TYP OF 2)	1,689	65%	2,208.3 (TYP OF 2)			
AHU-3	FAN ROOM 216	S/A	9,000	2.0 / 2.6	20 (x2)	PLENUM (TYP OF 2)	2,125	73%	7.5,208.3 (TYP OF 2)	HC-3 CC-3	8,230	INDOOR CUSTOM AIR HANDLING UNIT: 2" INSULATED DOUBLE WALL CONSTRUCTION, DUAL DIRECT DRIVE PLENUM SUPPLY FANS, DUAL DIRECT DRIVE PLENUM RETURN FANS. DEDICATED VSD FOR EACH FAN. HAAKON.
	OFFICE SPACES	R/A	9,000	1.1 / 0.4	22 (x2)	PLENUM (TYP OF 2)	1,055	76%	3,208.3 (TYP OF 2)			
AHU-4	FAN ROOM 235	S/A	2,000	1.6 / 3.1	12	PLENUM	3,392	65%	3,208.3	HC-4 CC-4 RC-4A RC-4B	4,720	INDOOR CUSTOM AIR HANDLING UNIT: 2" INSULATED DOUBLE WALL CONSTRUCTION, 100% OUTSIDE AIR WITH HEAT RECOVERY COILS. DIRECT DRIVE PLENUM SUPPLY AND EXHAUST FANS. DEDICATED VSD FOR EACH FAN. HAAKON.
	DENTAL CLINIC	E/A	2,000	1.6 / 1.5	15	PLENUM	2,271	65%	2,208.3			

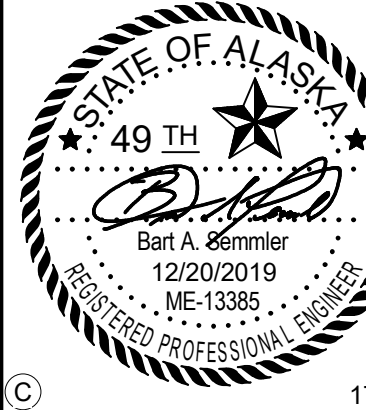
AHU AND FAN SOUND POWER LEVELS												
(dB Re: 10E-12 WATTS)												
SYMBOL	OCTAVE BAND	1	2	3	4	5	6	7	8	REMARKS		
	FREQ.	63	125	250	500	1K	2K	4K	8K			
SECTION 237000 - CENTRAL AIR HANDLING UNITS												
AHU-1	INLET	73	77	78	72	75	75	71	65			
	OUTLET	74	72	78	79	76	76	75	70			
	RADIATED	68	68	64	60	60	60	60	60			
AHU-2	INLET	72	76	77	70	74	74	70	64			
	OUTLET	74	74	80	78	75	75	73	68			
	RADIATED	67	68	66	60	60	60	60	60			
AHU-3	INLET	74	76	76	70	69	66	61	60			
	OUTLET	77	76	84	80	78	75	71	63			
	RADIATED	69	69	68	60	60	60	60	60			
AHU-4	INLET	74	77	81	77	76	77	75	70			
	OUTLET	73	71	73	77	74	72	72	66			
	RADIATED	65	65	61	60	60	60	60	60			

AIR HANDLING UNIT CABINET SCHEDULE													
SYMBOL	CABINET (DIMENSIONS IN INCHES)					COMPONENTS (DIMENSIONS IN INCHES)							REMARKS
	LEN	WIDTH	CAB HT	RAIL HT	WALL	INLET PLENUM	RF SECT	MIX BOX	PRE FILTER	SF SECT	HC/CC	FINAL FILTER	
SECTION 237000 - CENTRAL AIR HANDLING UNITS													
AHU-1	296.5	44.25	71.3	6	2	37.75	56.75	29.25	30.5	59.25	43.25	42	HAAKON UNIT WITH CUSTOM CABINET. DISCHARGE DUCTS WITH BELLMOUTH FITTINGS. SUPPLY AIR DISCHARGE PLENUM INCLUDED IN FINAL FILTER SECTION.
AHU-2	268.25	44.25	71.3	6	2	37.75	59	27	42.25	59.25	45.25	-	HAAKON UNIT WITH CUSTOM CABINET. DISCHARGE DUCTS WITH BELLMOUTH FITTINGS. SUPPLY AIR DISCHARGE PLENUM INCLUDED IN HC/CC SECTION. FINAL FILTER INCLUDED IN PRE-FILTER SECTION.
AHU-3	306	49	93.8	6	2	49.75	70	31	43.25	66.75	45.25	-	HAAKON UNIT WITH CUSTOM CABINET. DISCHARGE DUCTS WITH BELLMOUTH FITTINGS. SUPPLY AIR DISCHARGE PLENUM INCLUDED IN HC/CC SECTION. FINAL FILTER INCLUDED IN PRE-FILTER SECTION.
AHU-4	286	39	72.9	6	2	-	-	-	-	-	-	-	HAAKON UNIT WITH CUSTOM CABINET. DISCHARGE DUCTS WITH BELLMOUTH FITTINGS. EXHAUST INLET PLENUM, HEAT RECOVERY COIL, AND FILTER STACKED ON TOP OF UNIT. SUPPLY INLET PLENUM SUMMER FILTER, AND HEAT RECOVERY COIL STACK ON TOP OF UNIT.
COMPONENTS:													
INLET PLENUM	RETURN FAN INLET PLENUM SECTION.												
RF SECT	RETURN FAN SECTION.												
MIX BOX	MIX BOX OR INLET PLENUM SECTION.												
PRE FILTER	PRE FILTER SECTION.												
HRC RETURN	RETURN SECTION HEAT RECOVERY COIL.												
SF SECT	SUPPLY FAN SECTION.												
HC/CC	COMBINED HEATING COIL AND COOLING COIL SECTION.												
HRC SUPPLY	SUPPLY SECTION HEAT RECOVERY COIL.												
FINAL FILTER	FINAL FILTER SECTION.												
MFR*: PROVIDE MANUFACTURER'S FAN SECTION IN STANDARD LENGTH.													

COOLING COIL SCHEDULE													
SYMBOL	LOCATION	MBH TOT / SENS	SCFM	AIR TEMP IN (DB/WB)	AIR TEMP OUT (DB)	SIZE (INCH)	MAX VEL (FPM)	MAX APD (IN WC)	FLUID	GPM	FLUID TEMP IN/OUT (DEG F)	MAX WPD (FT)	REMARKS BASIS OF DESIGN
SECTION 237000 - CENTRAL AIR HANDLING UNITS													
CC-1	AHU-1	81/81	5,000	70/57	55	48" H X 30" W	500	0.40	40% PG	15.0	44/56	9.0	COOLING COIL: 4 ROW COIL, 9 FINS PER INCH, SINE-WAVE ALUMINUM FINS.
CC-2	AHU-2	81/81	5,000	70/57	55	48" H X 30" W	500	0.40	40% PG	15.0	44/56	9.0	COOLING COIL: 4 ROW COIL, 9 FINS PER INCH, SINE-WAVE ALUMINUM FINS.
CC-3	AHU-3	146/146	9,000	70/57	55	78" H X 34" W	489	0.45	40% PG	27.0	44/56	6.5	COOLING COIL: 4 ROW COIL, 10 FINS PER INCH, SINE-WAVE ALUMINUM FINS. TWO 38" X 34" COILS STACKED VERTICALLY.
CC-4	AHU-4	33/33	2,000	70/57	55	24" H X 24" W	500	0.46	40% PG	6.0	44/56	3.0	COOLING COIL: 4 ROW COIL, 10 FINS PER INCH, SINE-WAVE ALUMINUM FINS.



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Sheet Contents

MECHANICAL SCHEDULES

Sheet No.

M0.04

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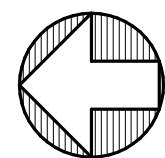
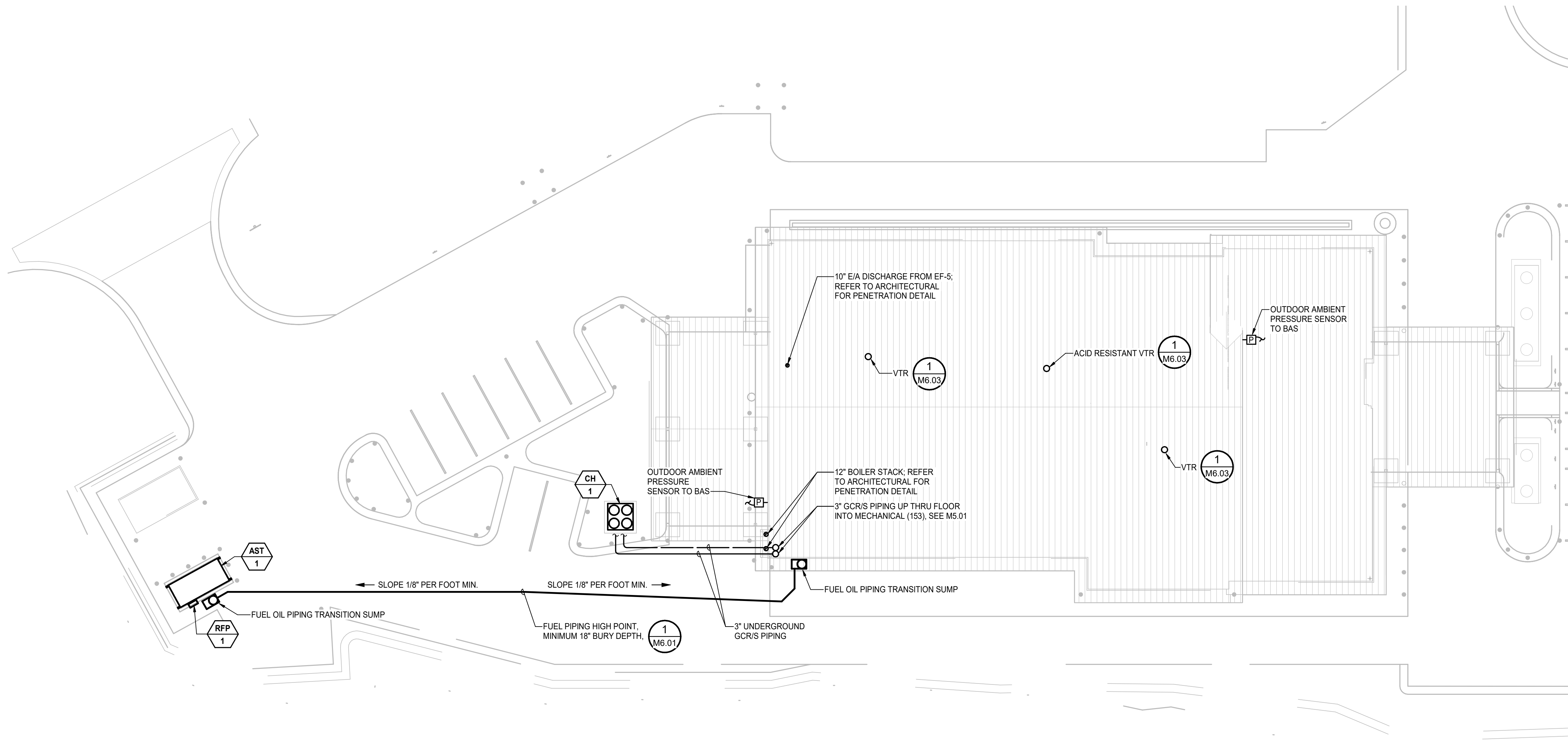
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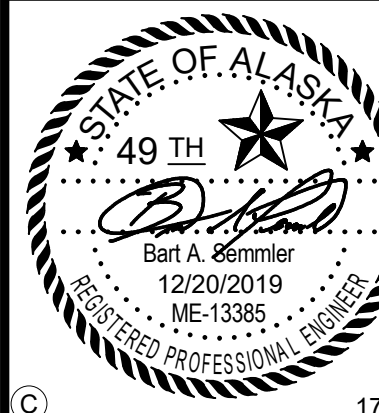
1 SITE PLAN AND ROOF PLAN - MECHANICAL
M1.01 Scale: 1/16" = 1'-0"



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SITE AND ROOF PLAN -
MECHANICAL

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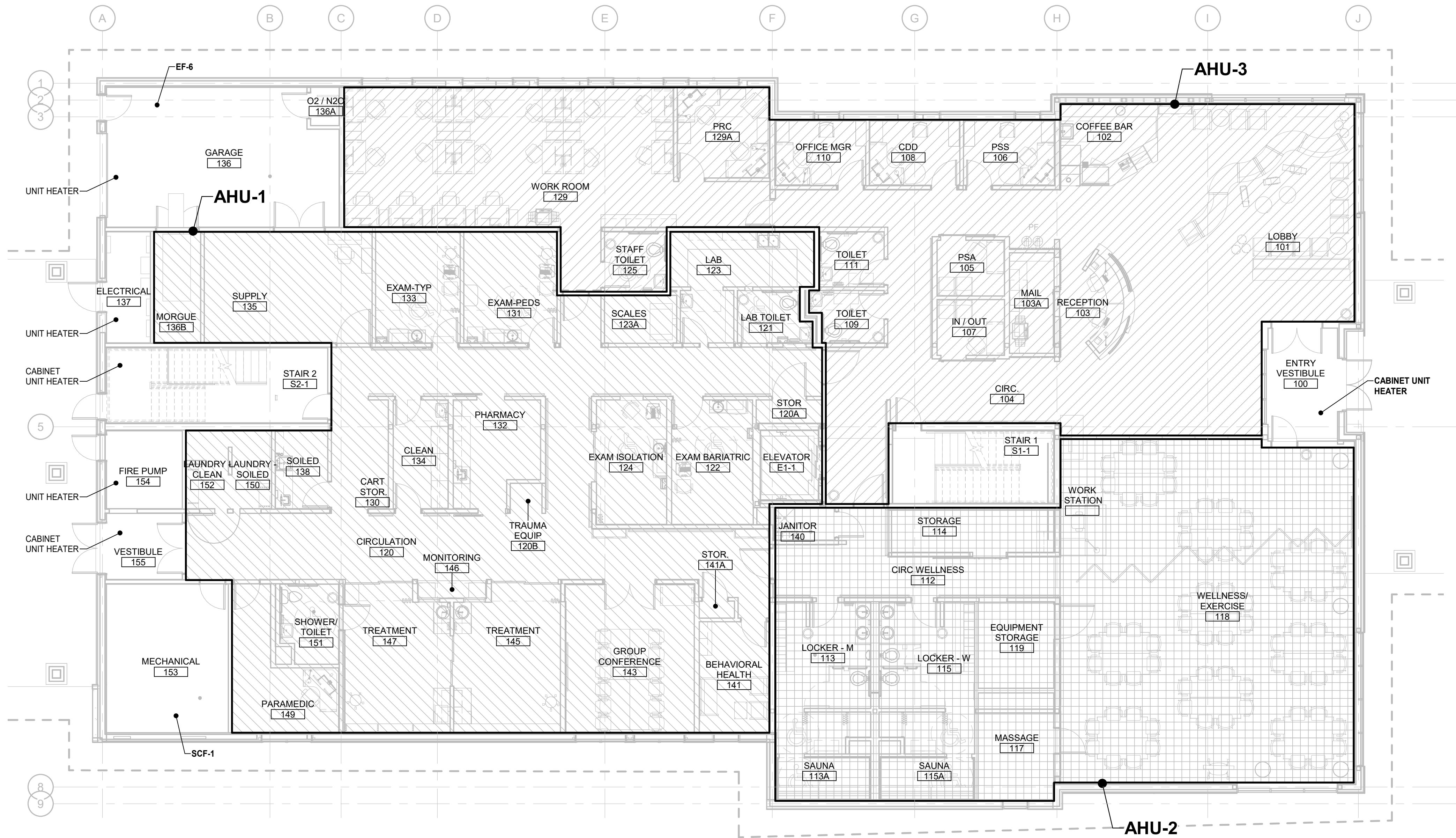
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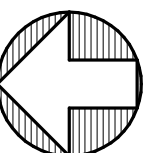


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FIRST FLOOR PLAN - HVAC SYSTEMS MAP

M1.02

Scale: 1/8" = 1'-0"



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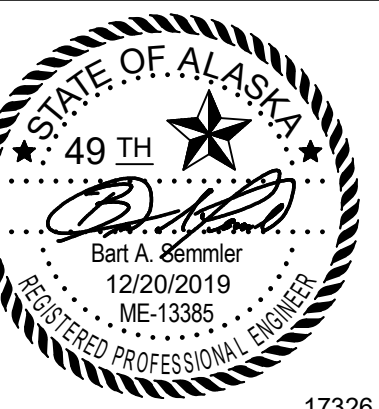
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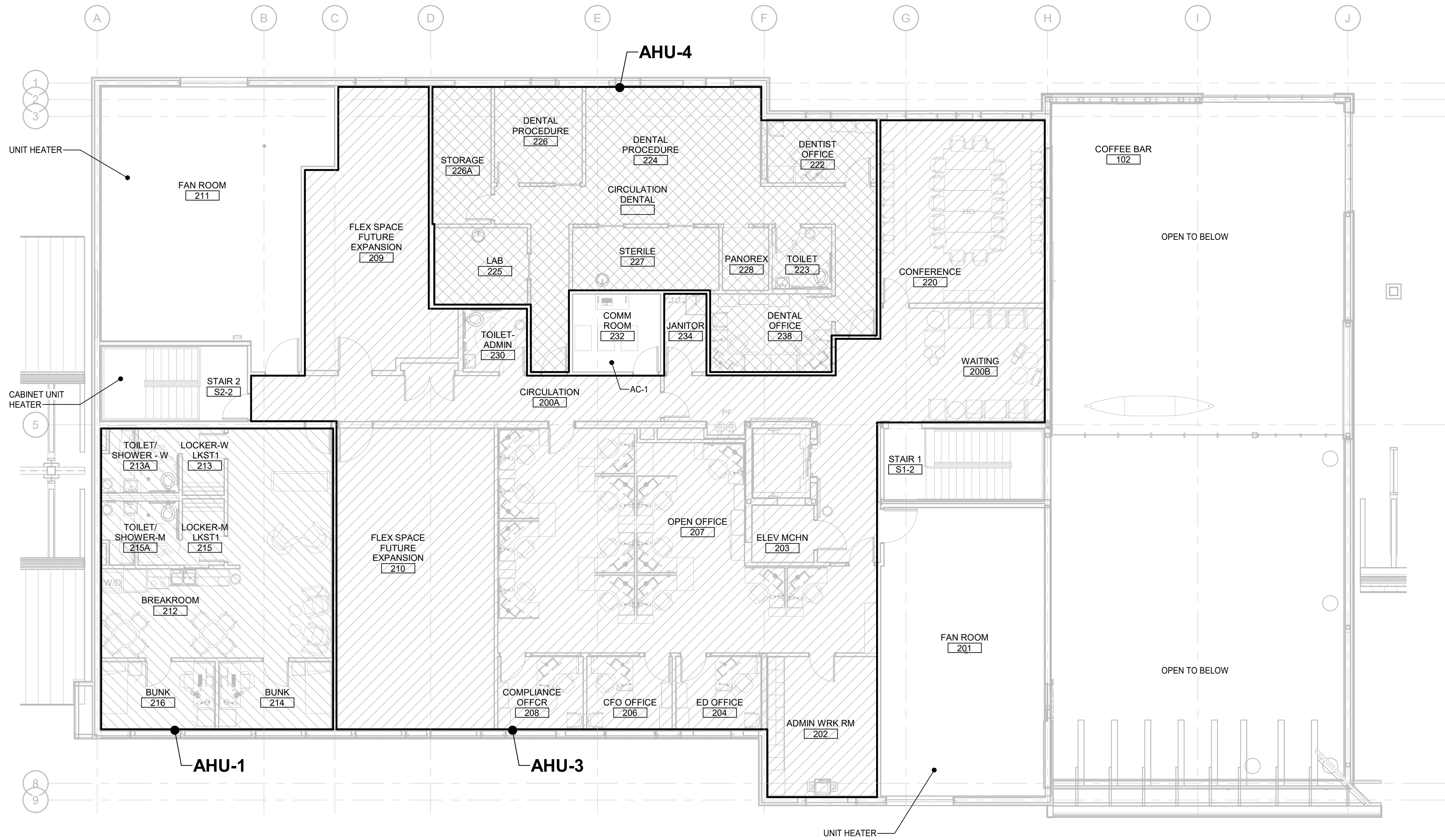
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FIRST FLOOR - HVAC SYSTEMS
MAP

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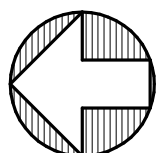
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1 SECOND FLOOR PLAN - HVAC SYSTEMS MAP
M1.03 Scale: 1/8" = 1'-0"



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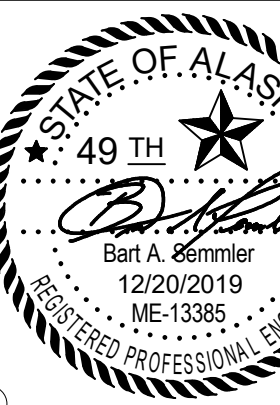
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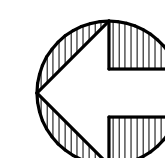
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SECOND FLOOR - HVAC

SYSTEMS MAP

Sheet No.

M1.03



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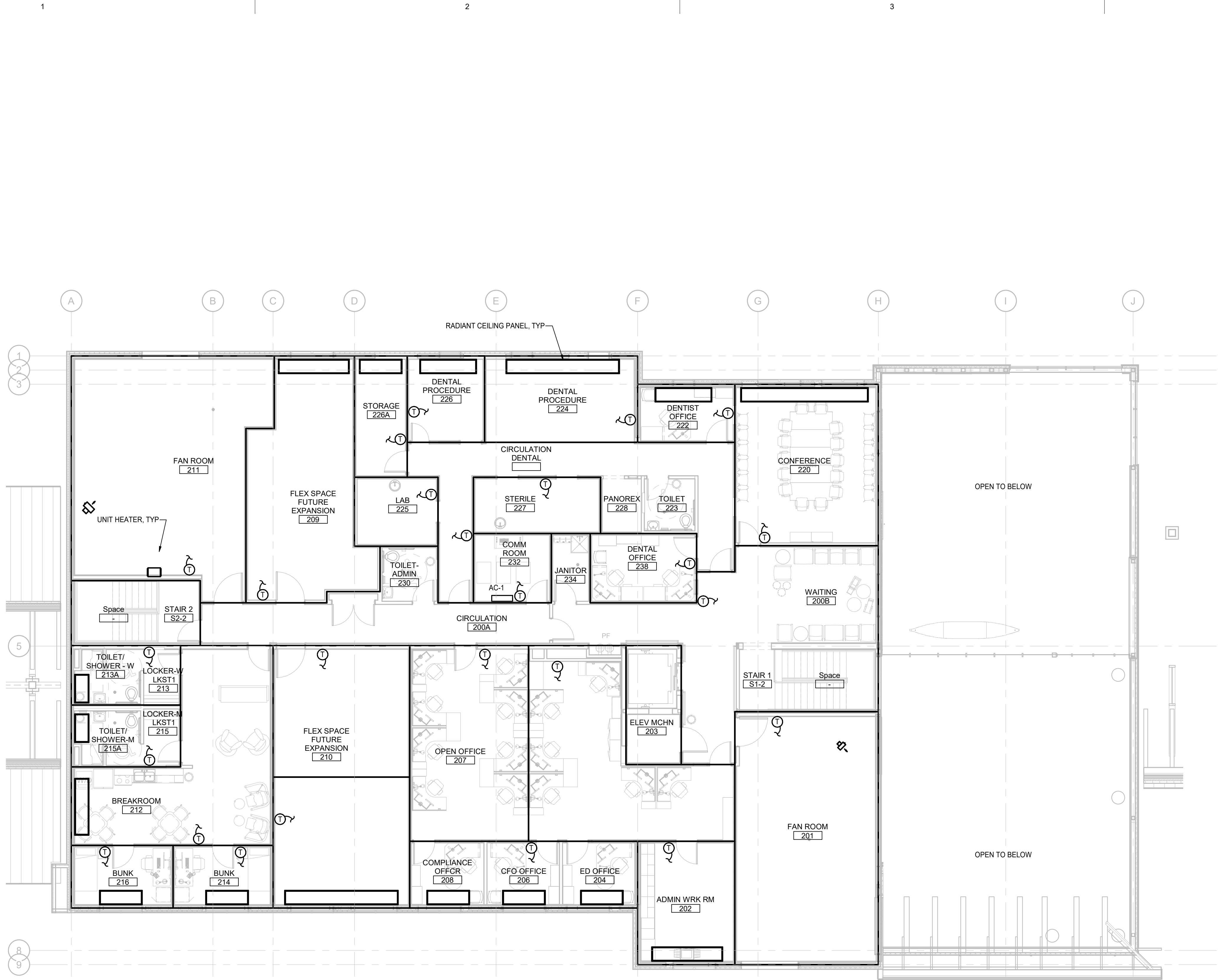
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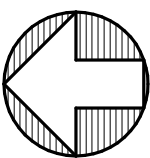


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SECOND FLOOR - HVAC ZONE MAP

M1.05

Scale: 1/8" = 1'-0"



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SECOND FLOOR - HVAC ZONE
MAP

Sheet No.
M1.05

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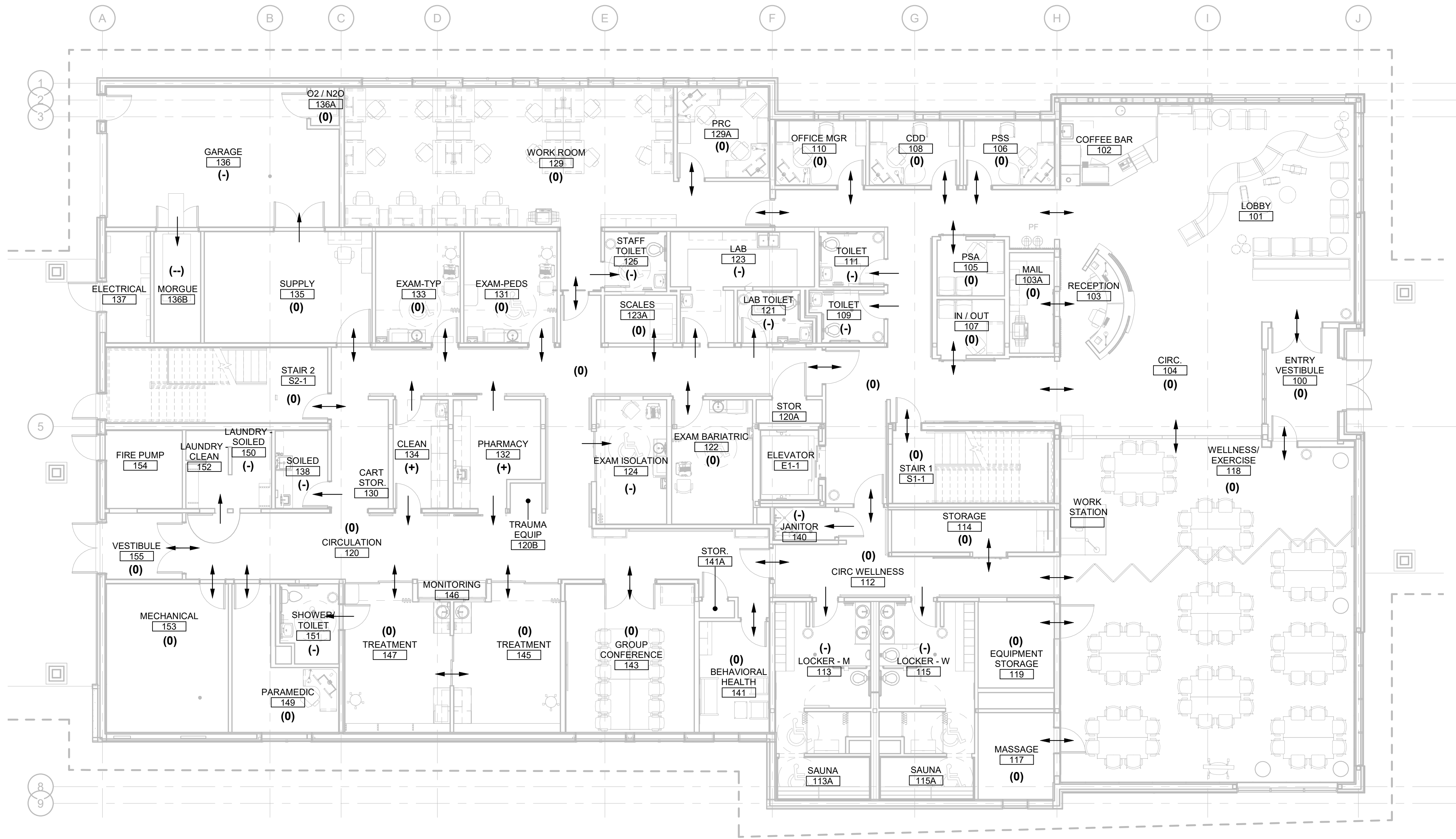
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PRESSURE MAP NOTES

- (0) = NEUTRAL PRESSURE
(+) = POSITIVE PRESSURE
(-) = NEGATIVE PRESSURE
(--) = NEGATIVE PRESSURE IN RELATION TO A NEGATIVE PRESSURE SPACE
↓ = DIRECTION OF AIRFLOW BETWEEN ADJACENT SPACES

PRESSURE RELATIONSHIPS SHOWN ARE WHEN VENTILATION SYSTEMS ARE UNDER NORMAL OPERATING CONDITIONS.



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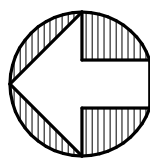
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Sheet Contents
FIRST FLOOR - PRESSURE MAP

Sheet No.

M1.06



1 FIRST FLOOR - PRESSURE MAP

M1.06 Scale: 1/8" = 1'-0"

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PRESSURE MAP NOTES

- (0) = NEUTRAL PRESSURE
- (+) = POSITIVE PRESSURE
- (-) = NEGATIVE PRESSURE
- ↓ = DIRECTION OF AIRFLOW BETWEEN ADJACENT SPACES

PRESSURE RELATIONSHIPS SHOWN ARE WHEN VENTILATION SYSTEMS ARE UNDER NORMAL OPERATING CONDITIONS.

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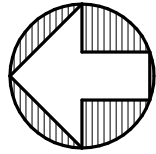
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Sheet Contents SECOND FLOOR - PRESSURE MAP
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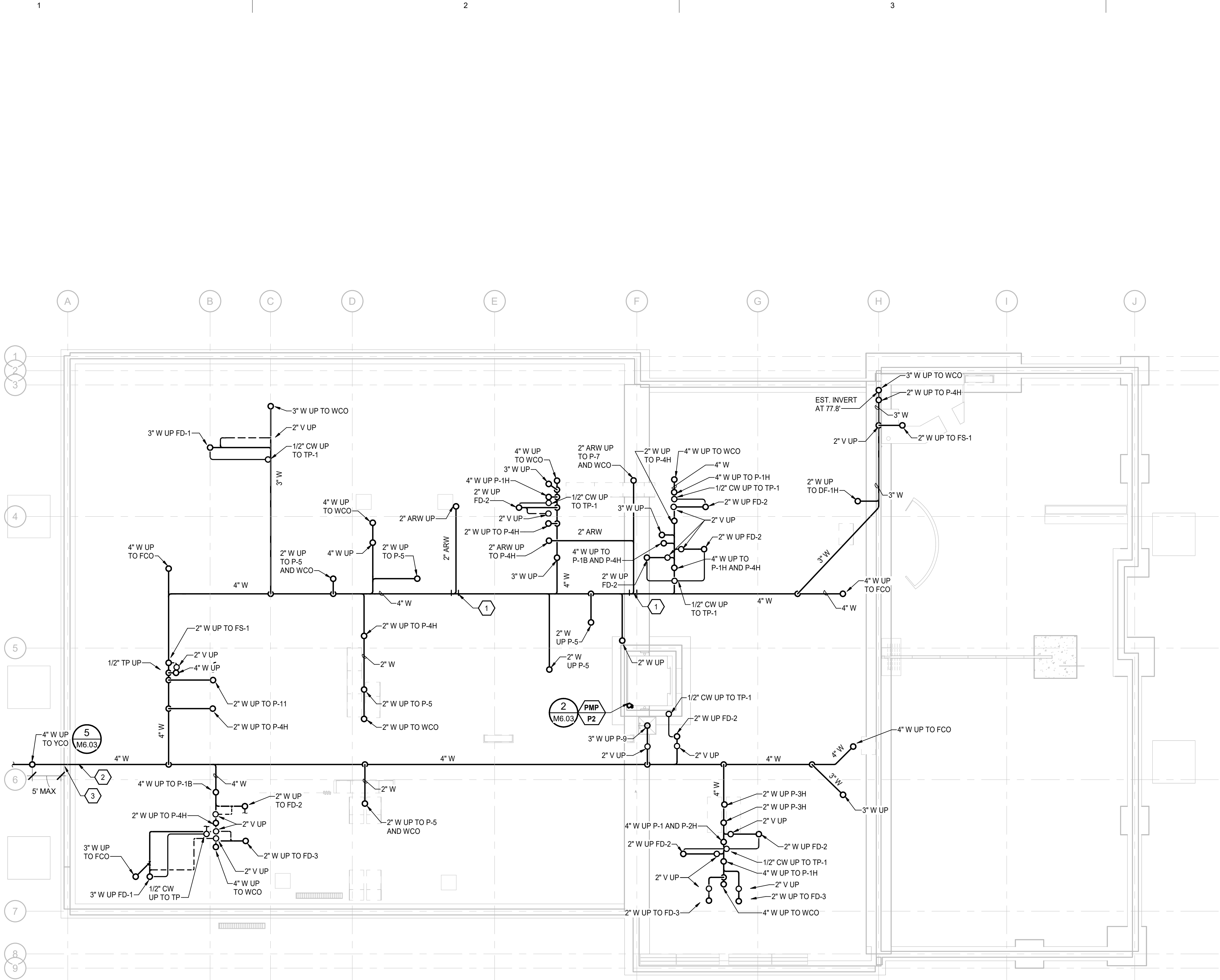
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GENERAL NOTES

1. WASTE PIPING SLOPED AT 1/4" PER FOOT.
2. WASTE PIPE ROUTED MINIMUM 6" BELOW SLAB.

SHEET NOTES

1. CONNECTION BETWEEN ACID RESISTANT WASTE & CAST IRON WASTE PIPE. WYE FITTINGS TO BE ACID RESISTANT.
2. SEE CIVIL FOR CONTINUATION. PROVIDE YCO AT BUILDING EXTERIOR. YCO INVERT AT 74.71'.
3. SEE 2/M7.03 FOR PENETRATION DETAIL.

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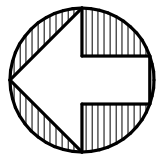
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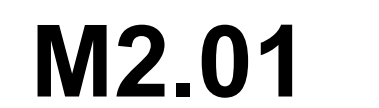
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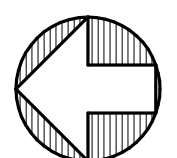
Sheet Contents UNDERFLOOR - PLUMBING

Sheet No. M2.00





M2.01 Scale: 1/8" = 1'-0"



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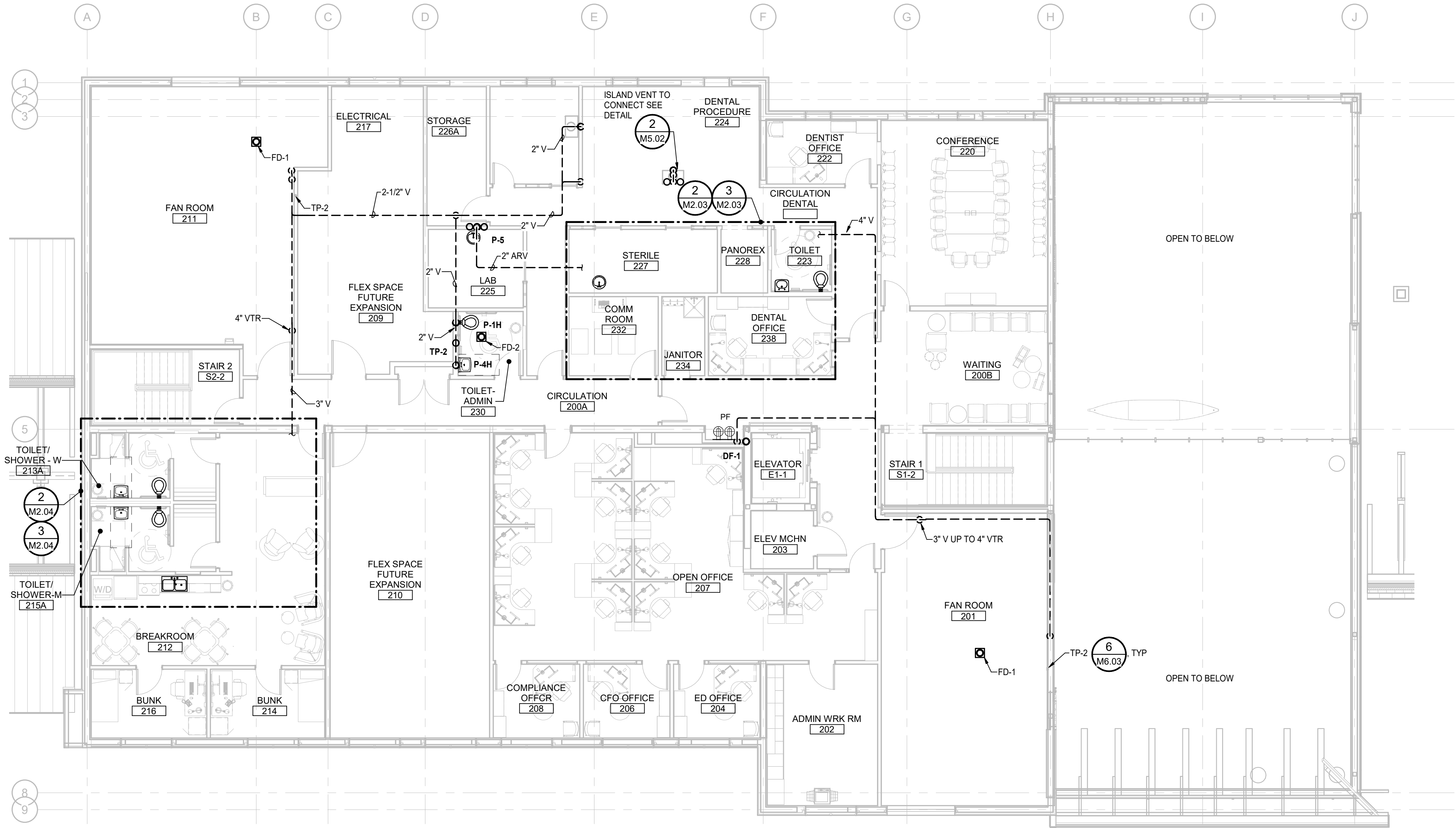
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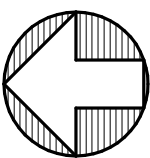
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GENERAL NOTES

1. FIXTURES HW & CW SERVICE IS FROM BELOW. SEE M2.01



1 SECOND FLOOR - PLUMBING
M2.02 Scale: 1/8" = 1'-0"



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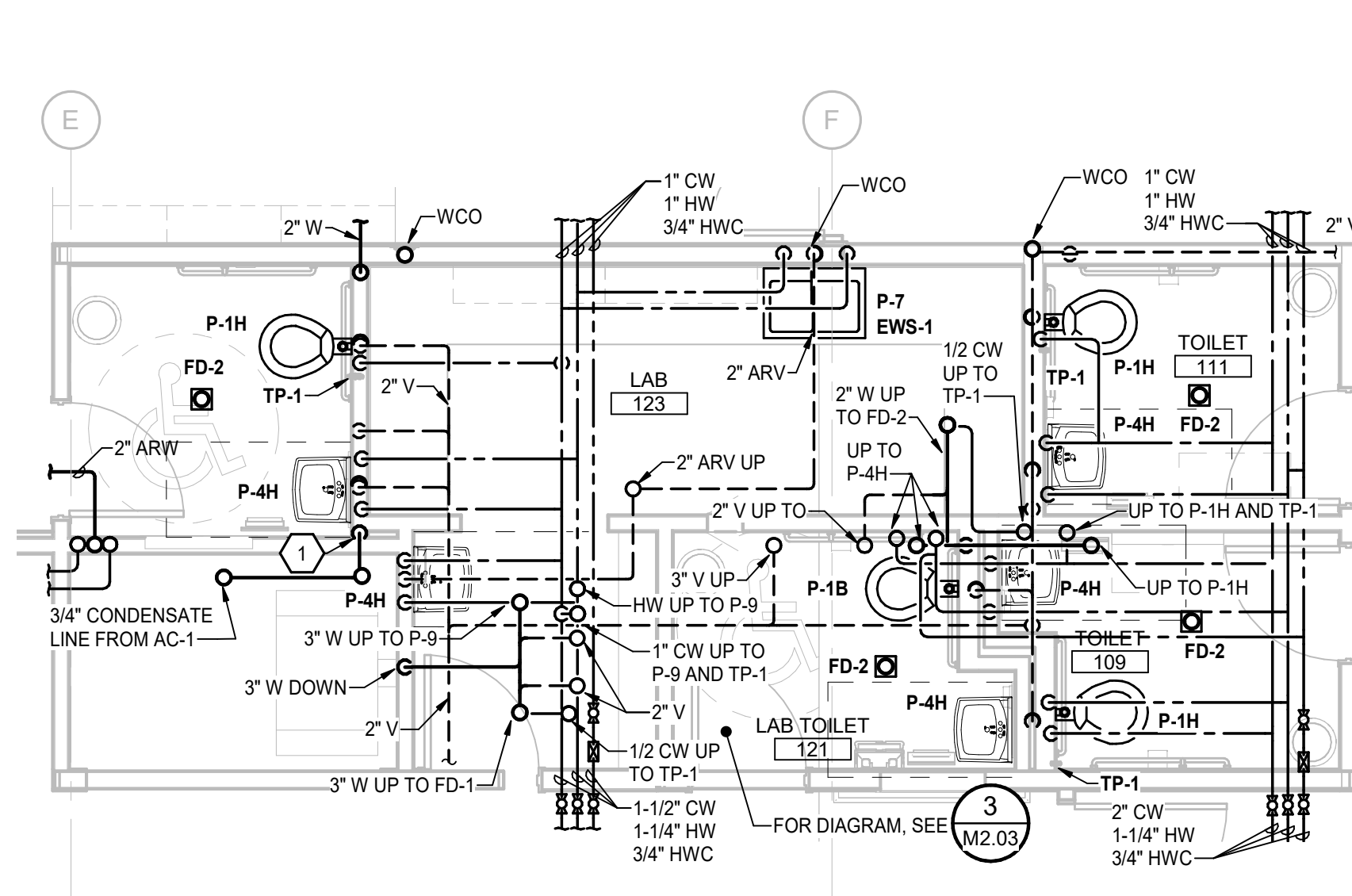
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Sheet Contents
SECOND FLOOR - PLUMBING

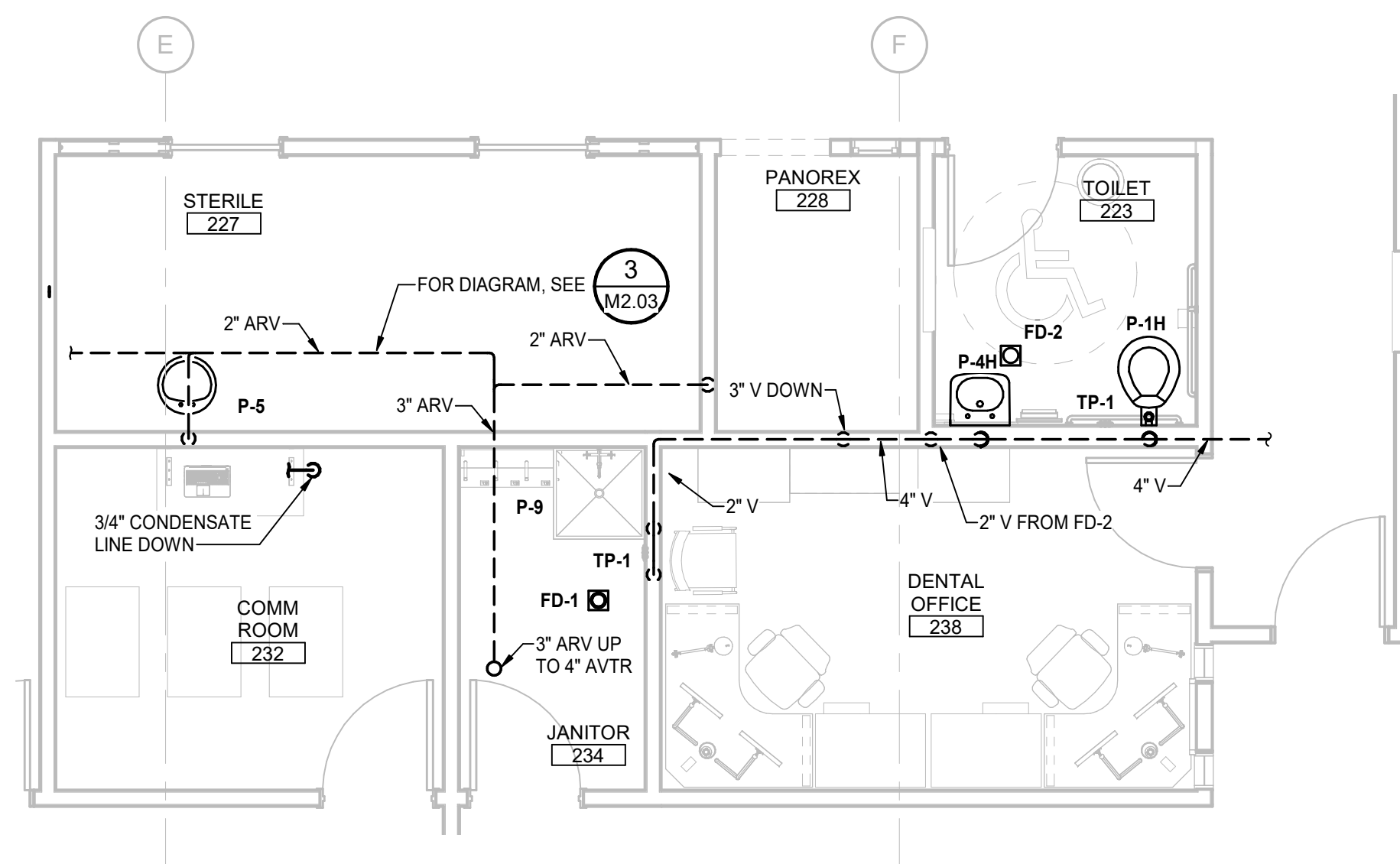
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M2.02

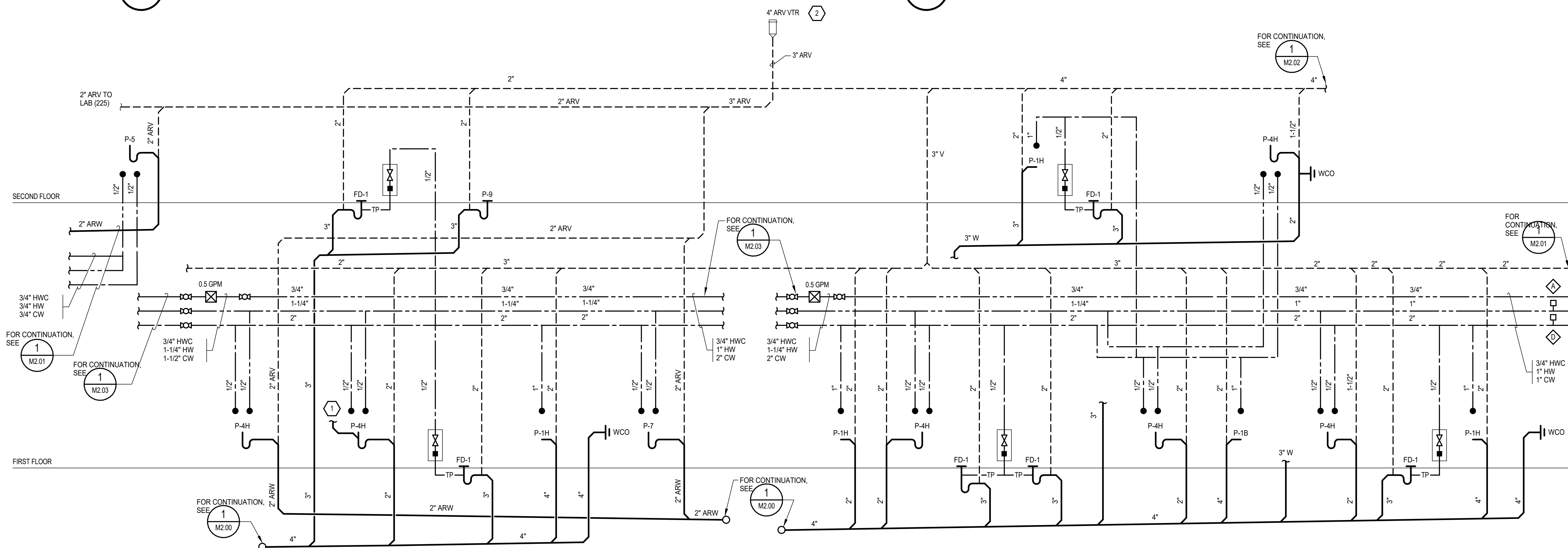
1. TIE AC-1 CONDENSATE LINE INTO P-4H TAILPIECE.
2. ALL ACID RESISTANT VENT PIPE TO TO TO ACID RESISTANT VENT THROUGH THE ROOF.



1 ENLARGED FIRST FLOOR - LAB, AND TOILET ROOMS
M2.03 Scale: 1/4" = 1'-0"



2 ENLARGED SECOND FLOOR - PLUMBING - LAB AND TOILET
M2.03 Scale: 1/4" = 1'-0"



3 DIAGRAM - PLUMBING

Revisions

No.	Description	Date

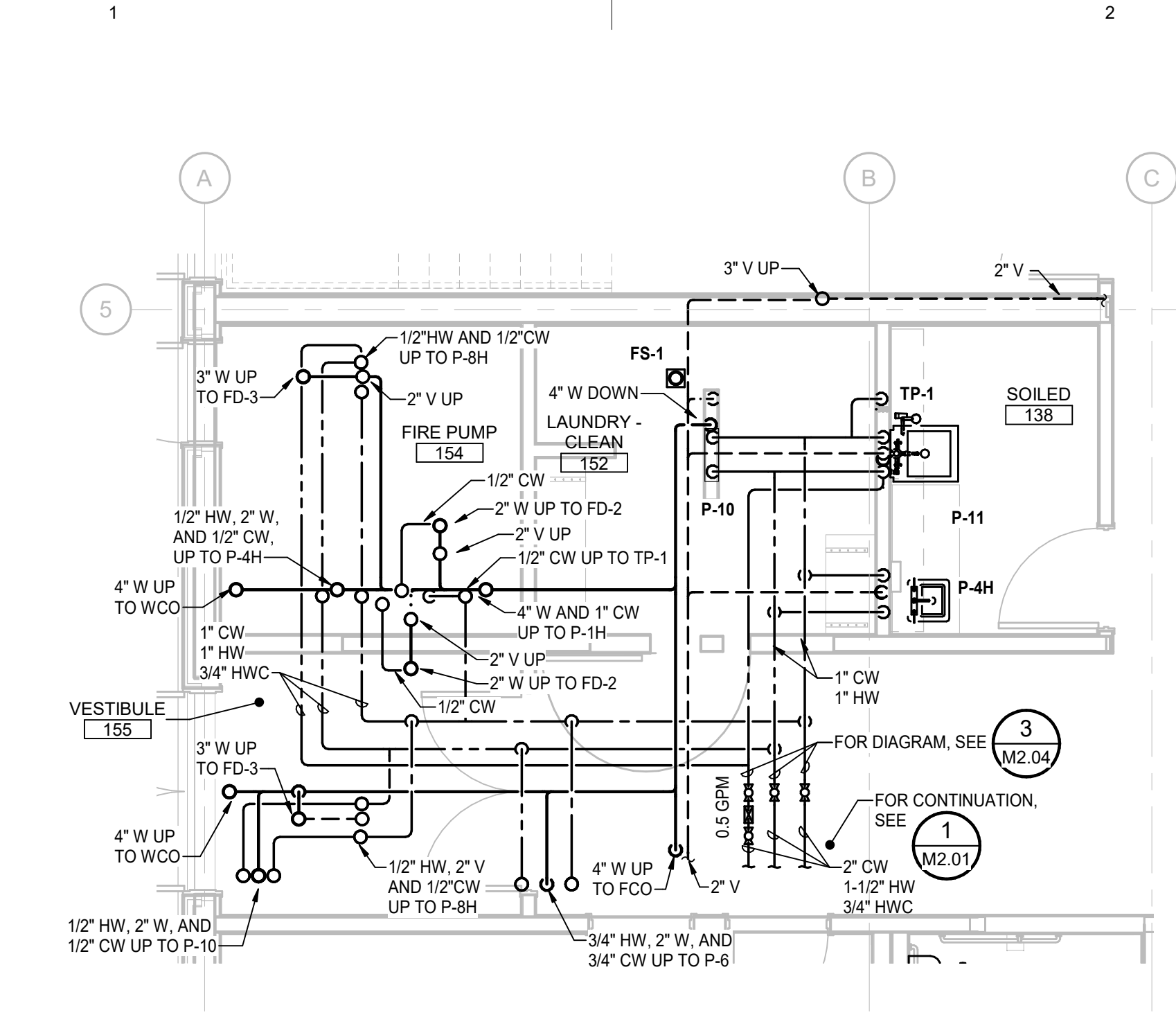
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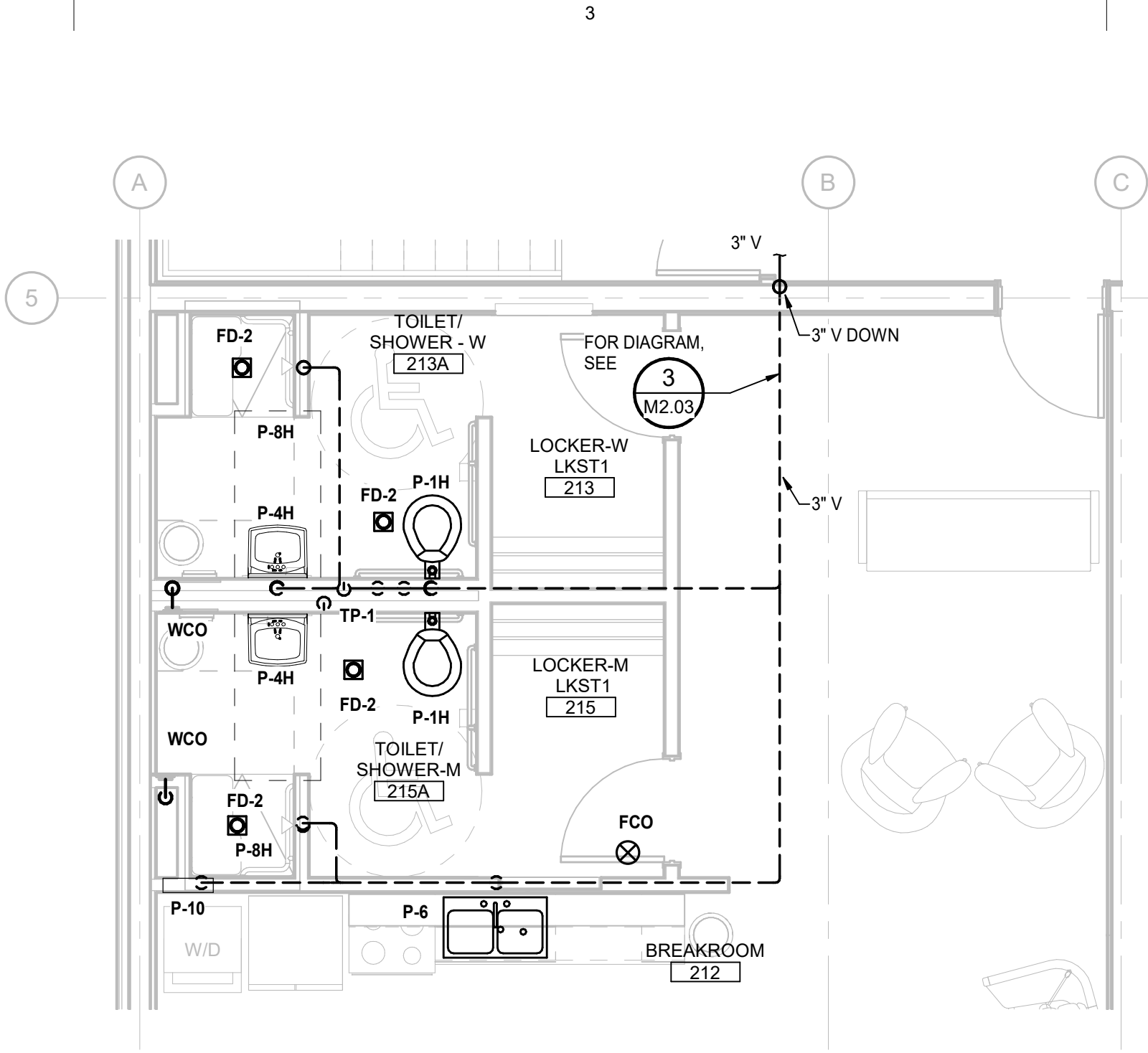
ENLARGED PLANS AND
DIAGRAMS - PLUMBING

Sheet No.

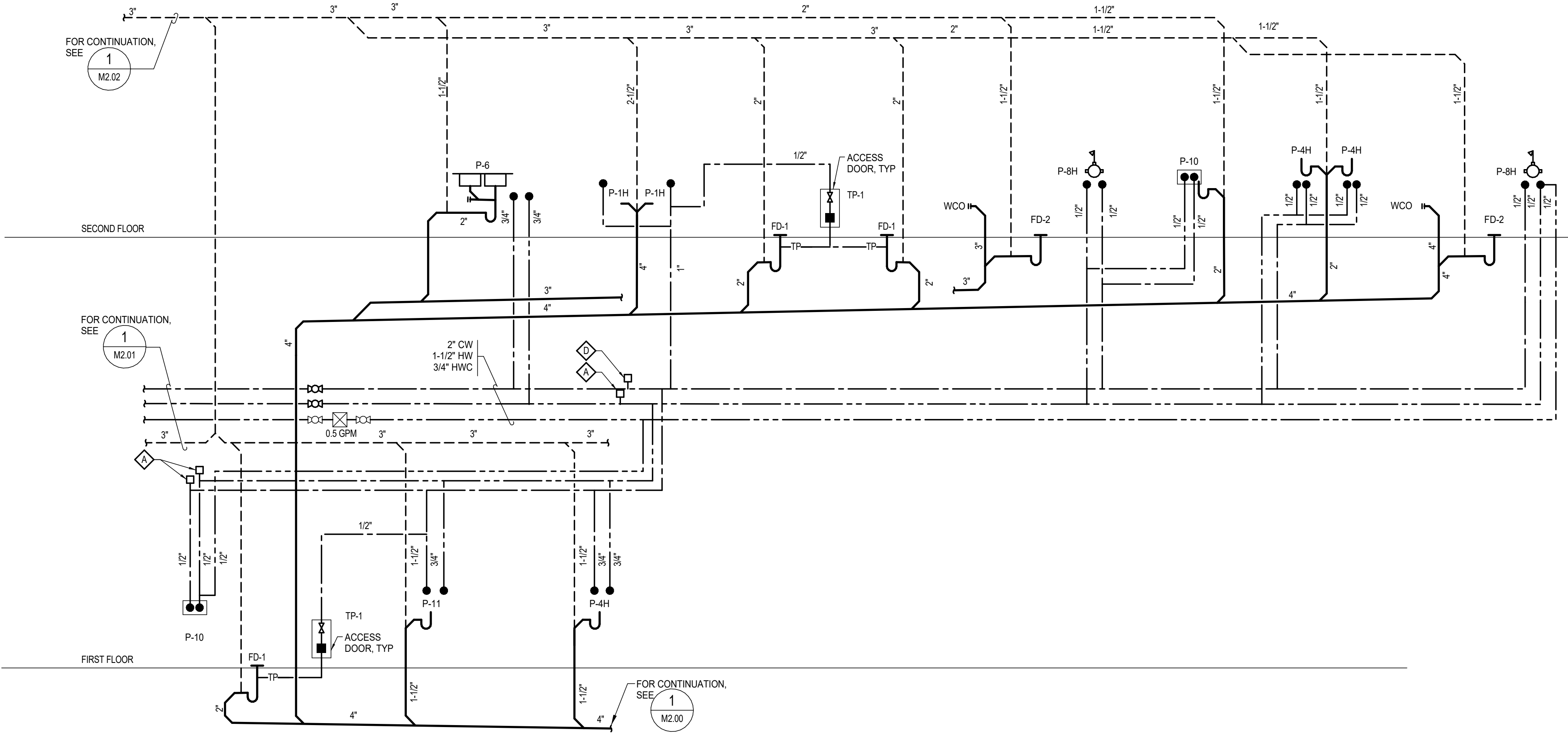
M2.03



1 ENLARGED FIRST FLOOR - PLUMBING - LAUNDRY
M2.04 Scale: 1/4" = 1'-0"



2 ENLARGED SECOND FLOOR - PLUMBING - TOILET ROOMS & KITCHEN
M2.04 Scale: 1/4" = 1'-0"



3 DIAGRAM - PLUMBING
M2.04 Scale: NONE

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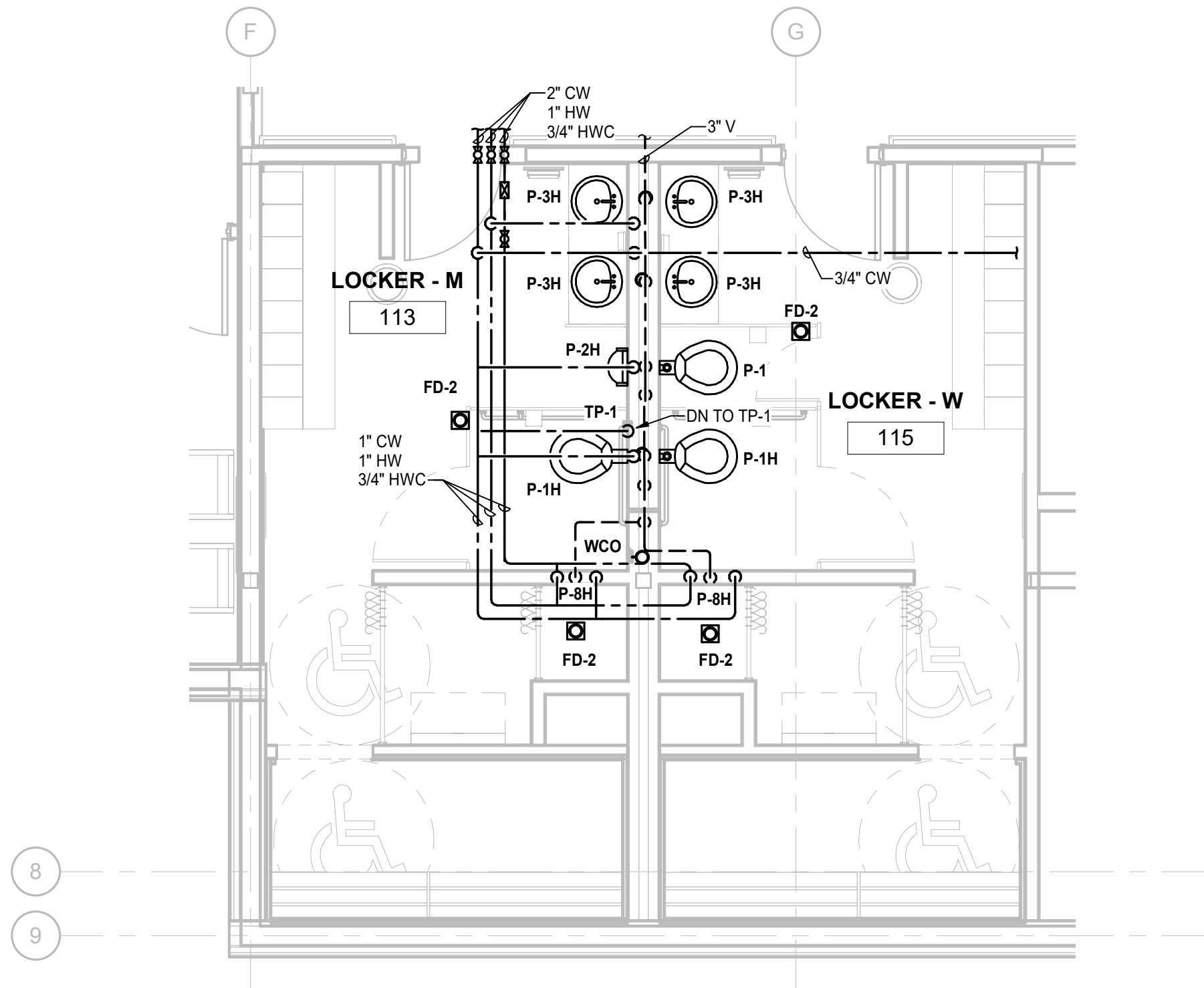
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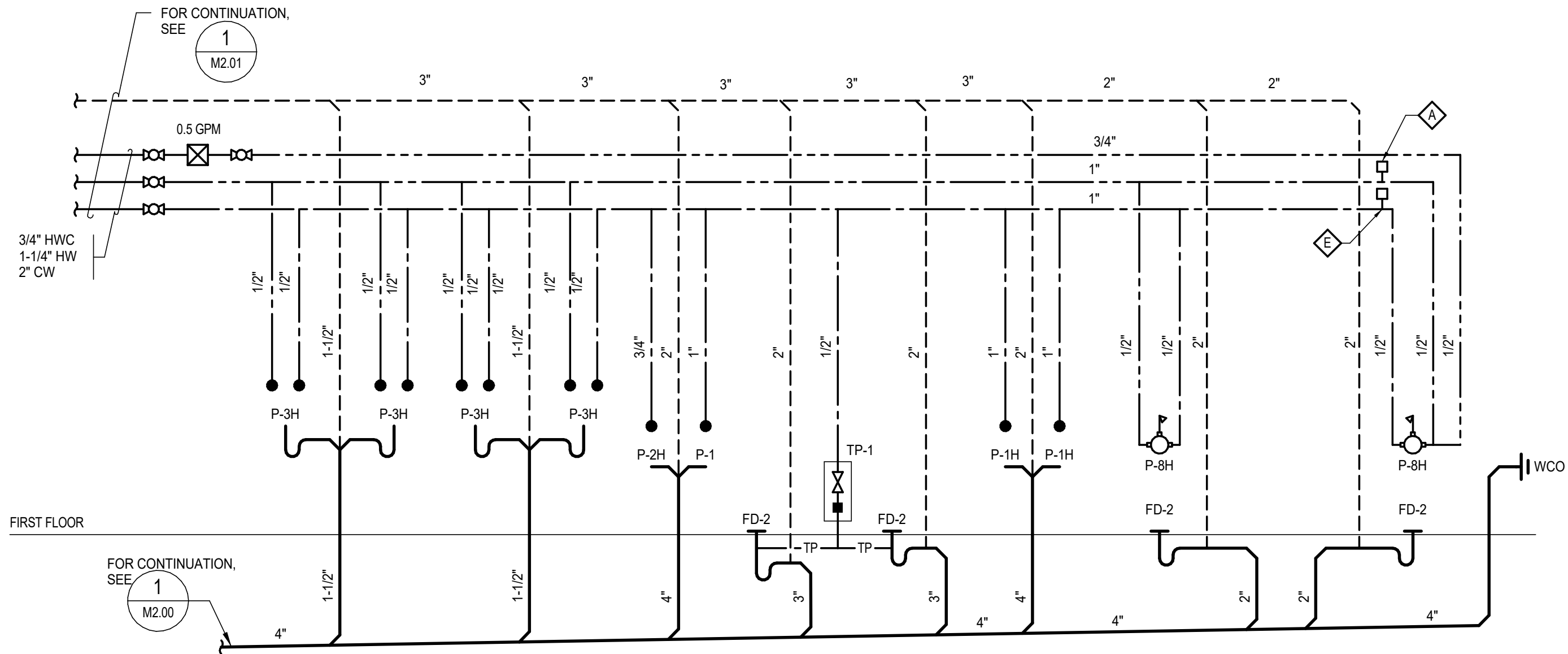
Sheet Contents
ENLARGED PLANS AND DIAGRAMS - PLUMBING

Sheet No.
M2.04

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1 ENLARGED FIRST FLOOR - PLUMBING - LOCKERS
M2.05 Scale: 1/4" = 1'-0"

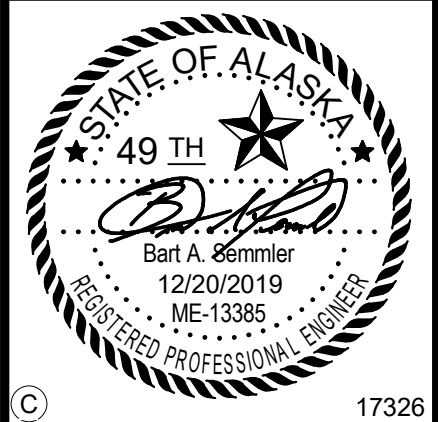


2 DIAGRAM - PLUMBING
M2.05 Scale: NONE

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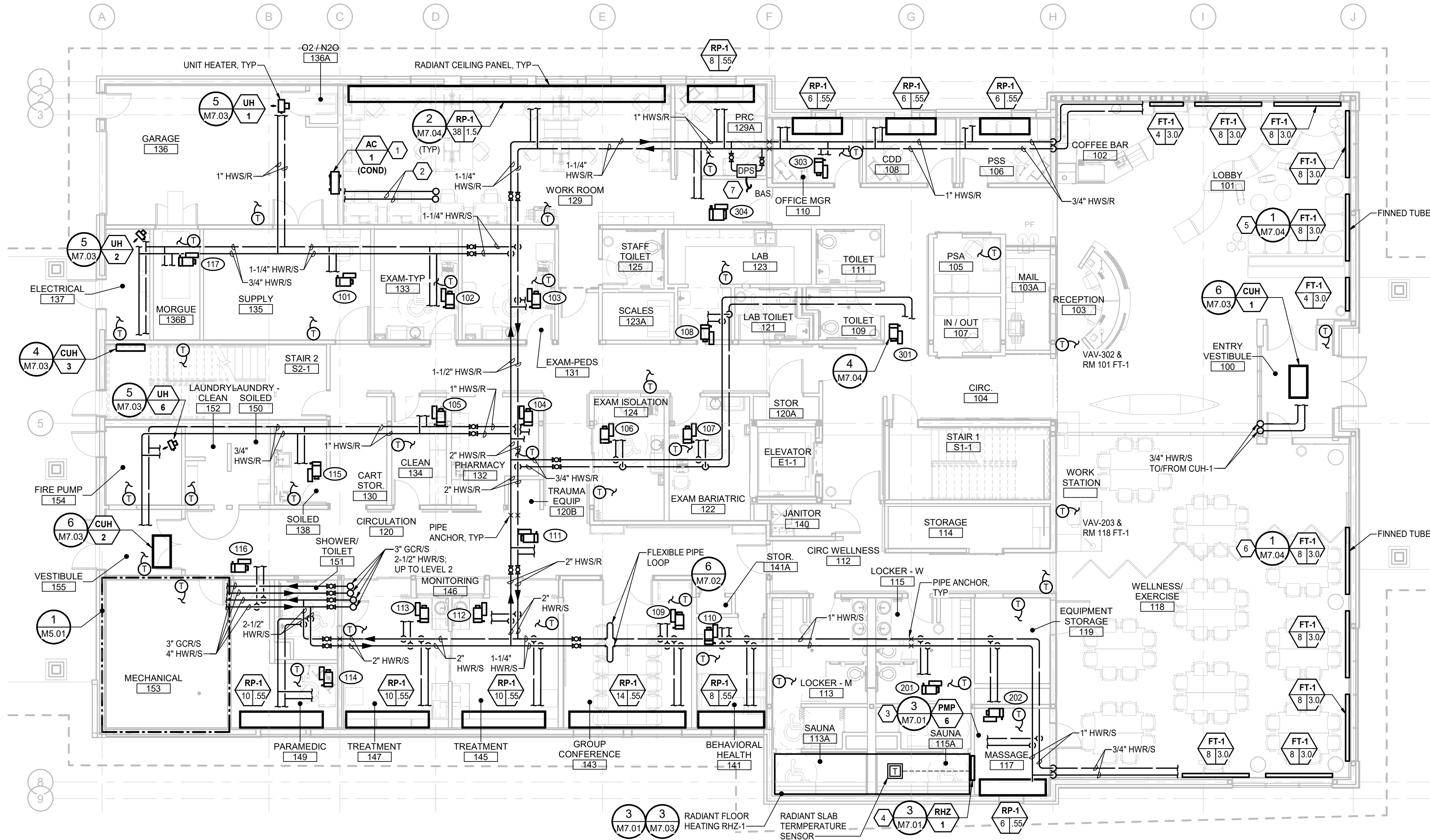
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Sheet Contents
ENLARGED PLANS AND
DIAGRAMS - PLUMBING

Sheet No.
M2.05

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GENERAL NOTES

1. MINIMUM PIPE SIZE IS 3/4" UNLESS NOTED OTHERWISE.
2. WHERE COILS OR OTHER HYDRONIC EQUIPMENT AND ACCESSORIES REQUIRING MAINTENANCE ARE LOCATED ABOVE A HARD-LID CEILING, PROVIDE CEILING ACCESS DOORS WHICH MATCH THE CEILING FIRE AND SMOKE RATING FOR PROPER MAINTENANCE ACCESSABILITY.
3. LOCATE REHEAT COIL PIPING AND VALVES ON THE SAME SIDE OF VAV TERMINAL UNIT AS CONTROL BOX, AND COIL ACCESS DOORS TO ALLOW MAINTENANCE FROM A SINGLE LOCATION.
4. MOUNT ROOM THERMOSTATS AT 48 INCHES AFF, TYPICAL. PROVIDE MANUAL HIGH POINT VENTS, LOW POINT DRAINS WITH CAPPED HOSE CONNECTIONS, AND SLOPE PIPING AS NECESSARY TO ALLOW FOR DRAINAGE OF BOTH HYDRONIC HEATING AND COOLING SYSTEMS.
6. FOR TYPICAL 2-WAY VAV BOX WITH REHEAT COIL PIPING DETAIL, SEE 3/M7.04.
7. FOR PIPE WALL PENETRATION DETAIL, SEE 1/M7.03; FOR PIPE FLOOR PENETRATION DETAIL, SEE 2/M7.03.

SHEET NOTES

1. MOUNT AC-1 CONDENSING UNIT ON WALL. BOTTOM OF UNIT LOCATED 10' AFF, SUPPORT STRUCTURE.
2. FIELD ROUTE AND INSTALL REFRIGERANT PIPING FOR AC-1 IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
3. LOCATE PUMP, PMP-6, ABOVE CEILING WITH CEILING ACCESS PANEL.
4. RADIANT HEATING ZONE, RHZ-1, MANIFOLD IS TO BE RECESSED IN WALL.
5. PROVIDE 40 FEET OF ACTIVE FINNED TUBE ELEMENT AT 3.0 GPM IN TOTAL FOR ENTIRE LOBBY AREA. FINTUBE ENCLOSURE TO BE CONTINUOUS FROM WALL TO WALL.
6. PROVIDE 40 FEET OF ACTIVE FINNED TUBE ELEMENT AT 3.0 GPM IN TOTAL FOR ENTIRE WELLNESS/EXERCISE AREA. FINTUBE ENCLOSURE TO BE CONTINUOUS FROM WALL TO WALL.
7. HYDRONIC DIFFERENTIAL PRESSURE SENSOR TO CONTROL PMP-3A/B VSD.

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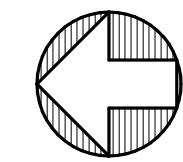
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No.	Description	Date

Drawn by DNS	Date 12/23/19
Checked BAS	Job No. 17046.01

Sheet Contents
FIRST FLOOR PLAN - HEATING & COOLING PIPING

Sheet No.
M3.01

1 FIRST FLOOR PLAN - HEATING & COOLING PIPING
M3.01 Scale: 1/8" = 1'-0"



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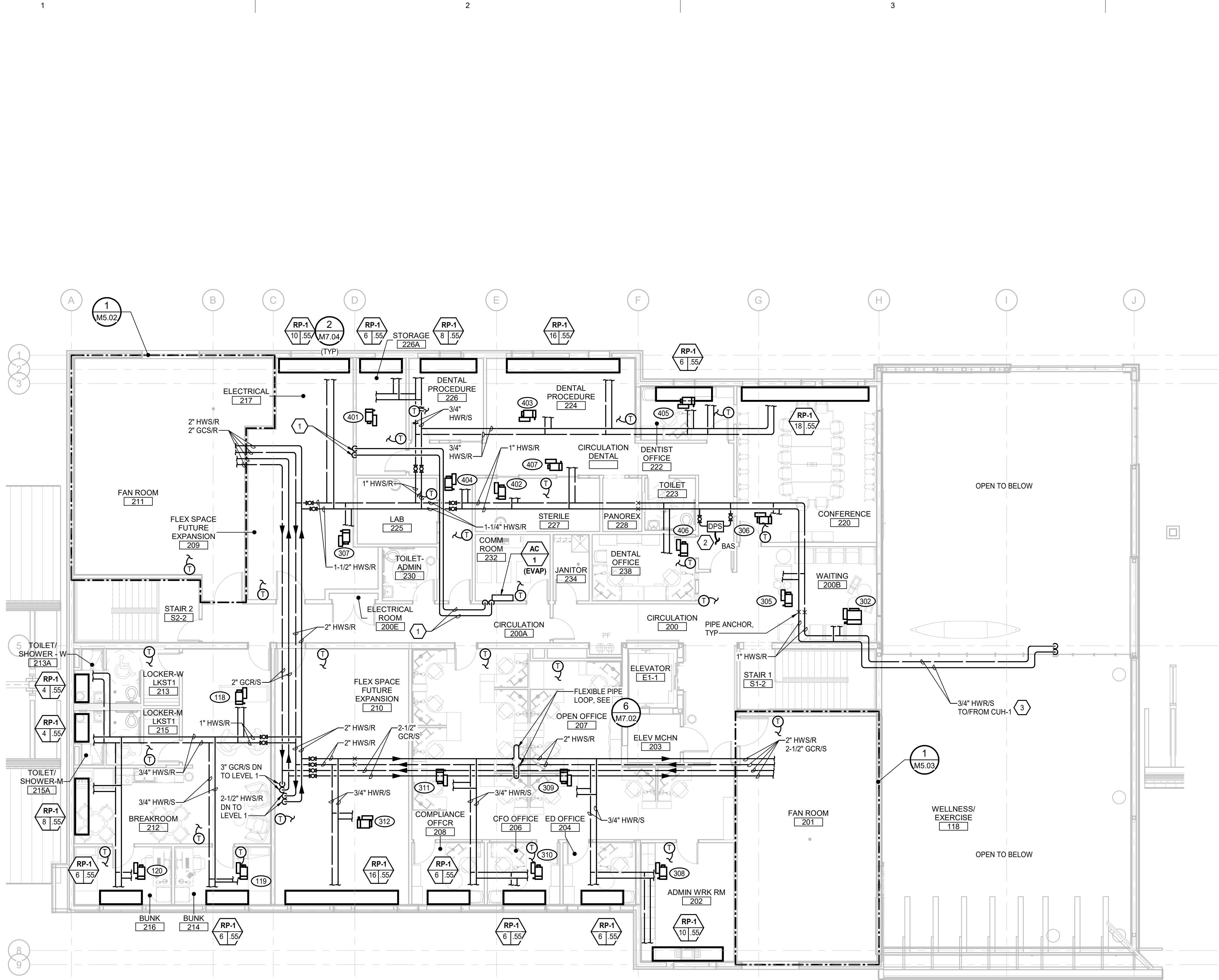
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GENERAL NOTES

1. MINIMUM PIPE SIZE IS 3/4" UNLESS NOTED OTHERWISE.
2. WHERE COILS OR OTHER HYDRONIC EQUIPMENT AND ACCESSORIES REQUIRING MAINTENANCE ARE LOCATED ABOVE A HARD-LID CEILING, PROVIDE CEILING ACCESS DOORS WHICH MATCH THE CEILING RATING FOR PROPER MAINTENANCE ACCESSABILITY.
3. LOCATE REHEAT COIL PIPING AND VALVES ON THE SAME SIDE OF VAV TERMINAL UNIT AS CONTROL BOX, AND COIL ACCESS DOORS TO ALLOW FULL MAINTENANCE FROM A SINGLE LOCATION.
4. MOUNT ROOM THERMOSTATS AT 48 INCHES AFF, TYPICAL. PROVIDE MANUAL HIGH POINT VENTS, LOW POINT DRAINS WITH CAPPED HOSE CONNECTIONS, AND SLOPE PIPING AS NECESSARY TO ALLOW FOR COMPLETE DRAINAGE OF BOTH HYDRONIC HEATING AND COOLING SYSTEMS.
6. FOR TYPICAL 2-WAY VAV BOX WITH REHEAT COIL PIPING DETAIL, SEE 3/M7.04.
7. FOR PIPE WALL PENETRATION DETAIL, SEE 1/M7.03; FOR PIPE FLOOR PENETRATION DETAIL, SEE 2/M7.03.

SHEET NOTES

1. ROUTE AND INSTALL REFRIGERANT PIPING FOR AC-1 IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. HYDRONIC DIFFERENTIAL PRESSURE SENSOR TO CONTROL PMP-3A/B VSD.
3. ROUTE HWS/R PIPING TO/FROM CUH-1 IN SOFFIT. COORDINATE ELEVATION WITH ARCHITECTURAL.

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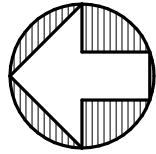
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No.	Description	Date

Drawn by DNS	Date 12/23/19
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Sheet Contents SECOND FLOOR PLAN - HEATING & COOLING PIPING

Sheet No.
M3.02

1 SECOND FLOOR PLAN - HEATING & COOLING PIPING
M3.02 Scale: 1/8" = 1'-0"



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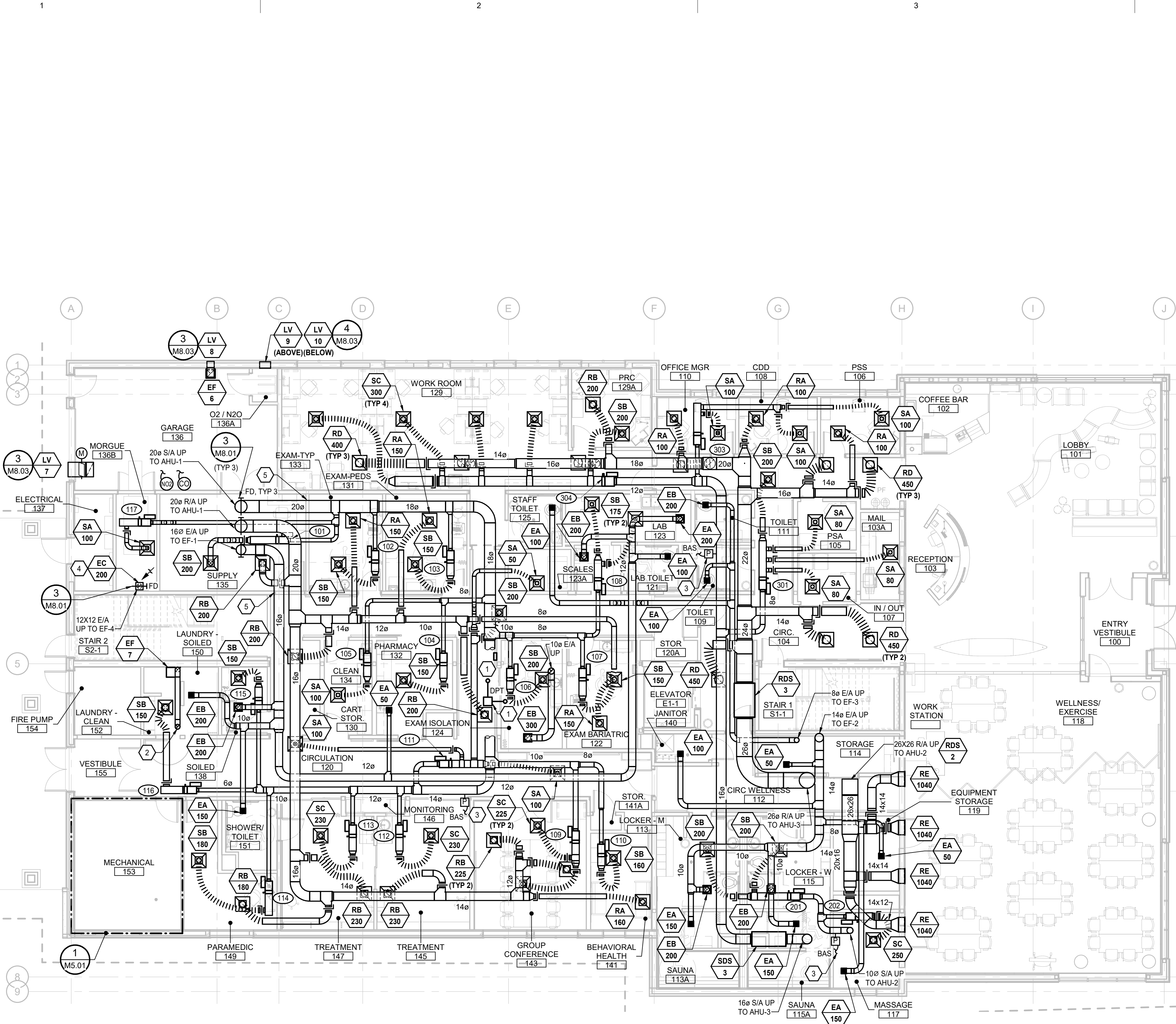
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GENERAL NOTES

1. FLEX DUCT CONNECTION DIAMETER EQUALS AIR OUTLET NECK SIZE. SEE AIR INLET/OUTLET SCHEDULE.
2. REFER TO HEATING SHEETS FOR ZONE THERMOSTAT LOCATIONS.
3. LOCATE BOTTOM OF VAV/EA V TERMINAL UNIT BETWEEN SIX (6) INCHES AND EIGHTEEN (18) INCHES ABOVE TOP OF CEILING GRID FOR ACCESSIBILITY.
4. FOR TYPICAL 2-WAY VAV BOX WITH REHEAT COIL DETAIL, SEE 3/M7.04.
5. FOR TYPICAL 3-WAY VAV BOX WITH REHEAT COIL DETAIL, SEE 4/M7.04. SEE M3.01 FOR 3-WAY VALVE LOCATIONS.
6. FOR DUCT WALL PENETRATION DETAIL, SEE 1/M7.03; FOR DUCT FLOOR PENETRATION DETAIL, SEE 2/M7.03.
7. FOR TYPICAL DUCT FITTINGS DETAIL, SEE 1/M8.03.
8. FOR TYPICAL E/A GRILLE DETAIL, SEE 2/M8.03.
9. FOR TYPICAL FLEXIBLE DUCT CONNECTION DETAIL, SEE 5/M8.03.

SHEET NOTES

1. EXAM ISOLATION (124) PRESSURE MONITORING SYSTEM TO INCLUDE ROOM DIFFERENTIAL PRESSURE TRANSMITTER (DPT) AND WALL-MOUNT DIGITAL DISPLAY. MOUNT DIGITAL DISPLAY ON WALL AT 5 FT AFF. MOUNT DPT ABOVE CORRIDOR CEILING IN ACCESSIBLE LOCATION. MOUNT DPT ORIFICE PLATES IN CEILING OF EXAM ISOLATION ROOM AND CORRIDOR AS SHOWN. LOCATE ORIFICE PLATES AS FAR AS PRACTICABLE FROM SUPPLY AIR DIFFUSERS TO AVOID INDUCED PRESSURES FROM AIRFLOW PATTERNS.
2. 8Ø DRYER VENT UP IN RATED CHASE, COORDINATE WITH ARCHITECTURAL.
3. DUCT STATIC PRESSURE SENSOR TO AIR HANDLER SUPPLY FAN VSD CONTROLLER.
4. BOTTOM OF EXHAUST AIR GRILLE LOCATED APPROXIMATELY 12 INCHES AFF.
5. PROVIDE LISTED THROUGH FIRESTOP PENETRATION PER UL 1479 OR ASTM E814, TYPICAL AT ALL RATED WALL PENETRATIONS.

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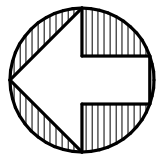
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Sheet Contents FIRST FLOOR PLAN - VENTILATION

Sheet No.
M4.01

1 FIRST FLOOR - VENTILATION
M4.01 Scale: 1/8" = 1'-0"



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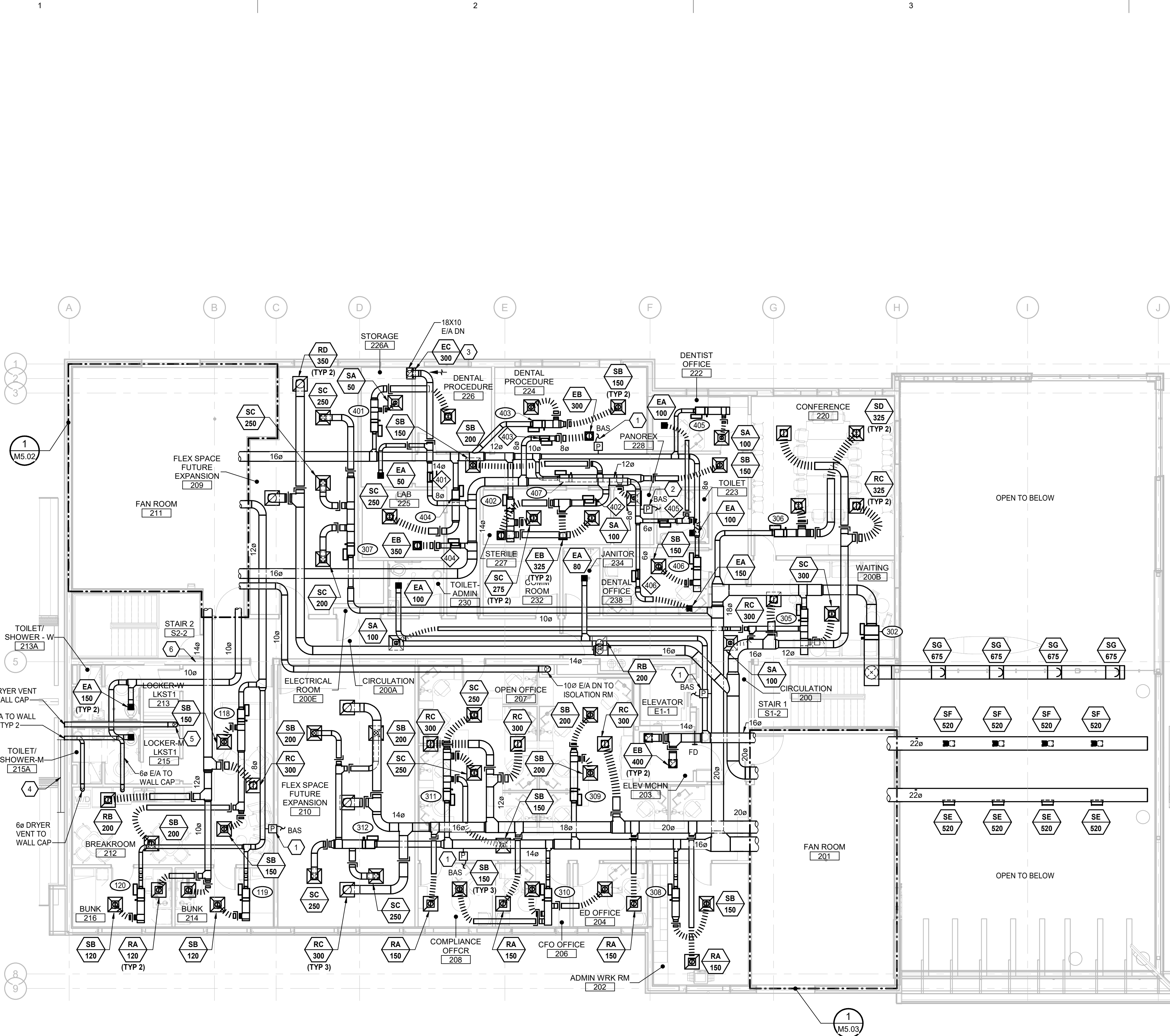
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GENERAL NOTES

1. FLEX DUCT CONNECTION DIAMETER EQUALS AIR OUTLET NECK SIZE. SEE AIR INLET/OUTLET SCHEDULE.
2. REFER TO HEATING SHEETS FOR ZONE THERMOSTAT LOCATIONS.
3. LOCATE BOTTOM OF VAV/EA/V TERMINAL UNIT BETWEEN SIX (6) INCHES AND EIGHTEEN (18) INCHES ABOVE TOP OF CEILING GRID FOR ACCESSIBILITY.
4. FOR TYPICAL 2-WAY VAV BOX WITH REHEAT COIL DETAIL, SEE 3/M7.04.
5. FOR TYPICAL 3-WAY VAV BOX WITH REHEAT COIL DETAIL, SEE 4/M7.04. SEE M3.02 FOR 3-WAY VALVE LOCATIONS.
6. FOR DUCT WALL PENETRATION DETAIL, SEE 1/M7.03; FOR DUCT FLOOR PENETRATION DETAIL, SEE 2/M7.03.
7. FOR TYPICAL DUCT FITTINGS DETAIL, SEE 1/M8.03.
8. FOR TYPICAL E/A GRILLE DETAIL, SEE 2/M8.03.
9. FOR TYPICAL FLEXIBLE DUCT CONNECTION DETAIL, SEE 5/M8.03.

SHEET NOTES

1. DUCT STATIC PRESSURE SENSOR TO AIR HANDLER SUPPLY FAN VSD CONTROLLER.
2. DUCT STATIC PRESSURE SENSOR TO AIR HANDLER EXHAUST FAN VSD CONTROLLER.
3. MOUNT BOTTOM OF EXHAUST GRILLE APPROXIMATELY 12 INCHES AFF.
4. LOCATE DRYER VENT AND RANGE HOODVENT A MINIMUM OF 10'-0" AWAY FROM OPERABLE WINDOW.
5. 80 E/A DOWN TO EF-7 AND LEVEL 1 DRYER.
6. PROVIDE LISTED THROUGH FIRESTOP PENETRATION PER UL 1479 OR ASTM E814, TYPICAL AT ALL RATED WALL PENETRATIONS.

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Sheet Contents SECOND FLOOR PLAN - VENTILATION
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Sheet No. M4.02

1 SECOND FLOOR - VENTILATION
M4.02 Scale: 1/8" = 1'-0"



1. ROUTE BOILER STACKS UP EXTERIOR OF BUILDING WITHIN EXTERIOR ENCLOSURE. SLOPE STACKS TO DRAIN INSIDE OF MECHANICAL ROOM AND PROVIDE DRAIN SECTION.
2. BOILER SHUT-DOWN SWITCH, SEE ELECTRICAL.
3. 3-1/2" REINFORCED CONCRETE HOUSEKEEPING PAD; REFER TO STRUCTURAL CRITERIA. COORDINATE PAD SIZE WITH CONTRACTOR'S SHOP DRAWINGS AND SEISMIC RESTRAINT DESIGN TO MAINTAIN REQUIRED ANCHOR BOLT EDGE DISTANCE.



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M5.01



1. FOR FLOOR PIPE SUPPORTS DETAIL, SEE 1/M7.05.

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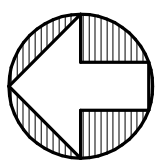
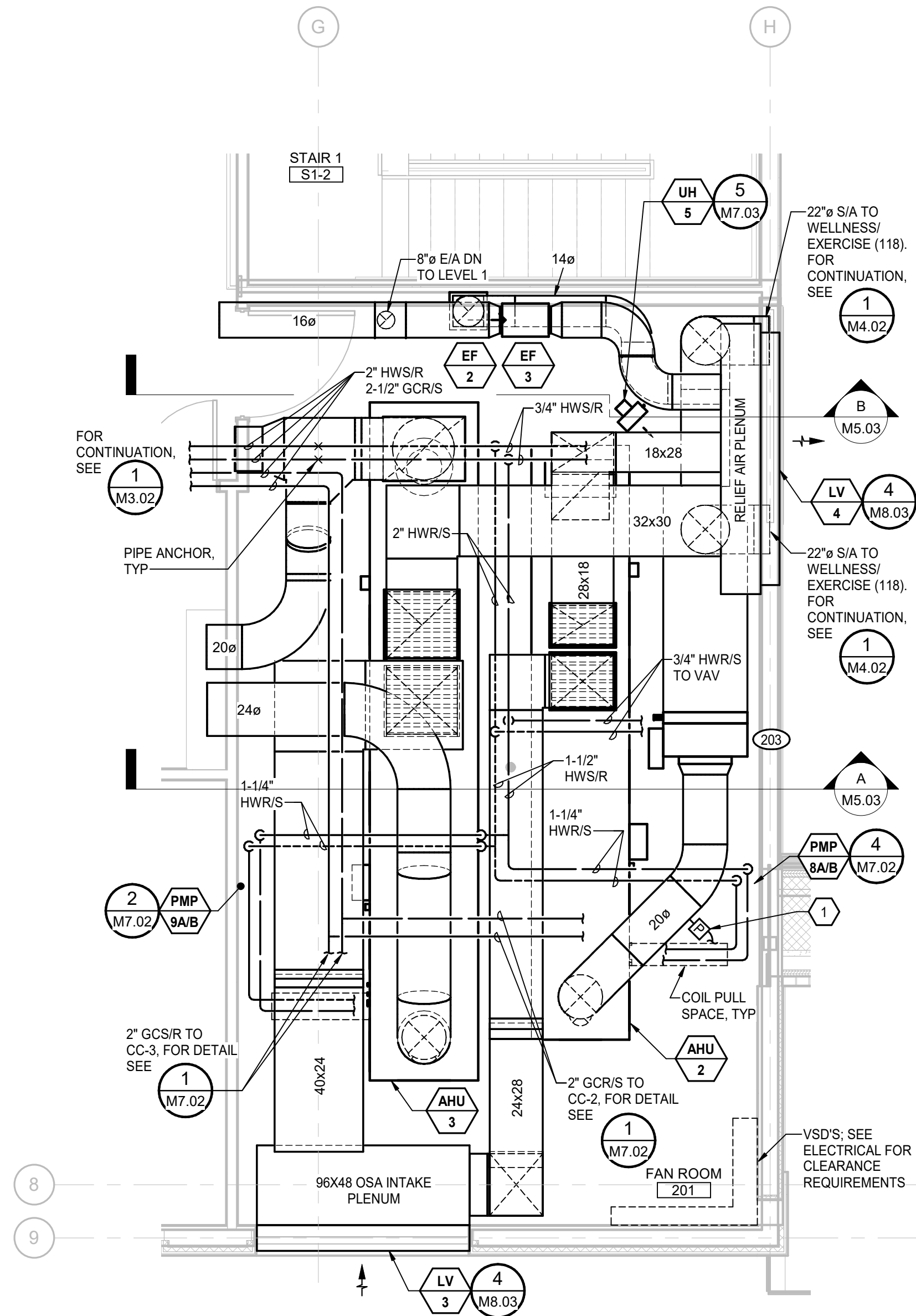
ENLARGED PLANS AND
SECTIONS

Sheet No.

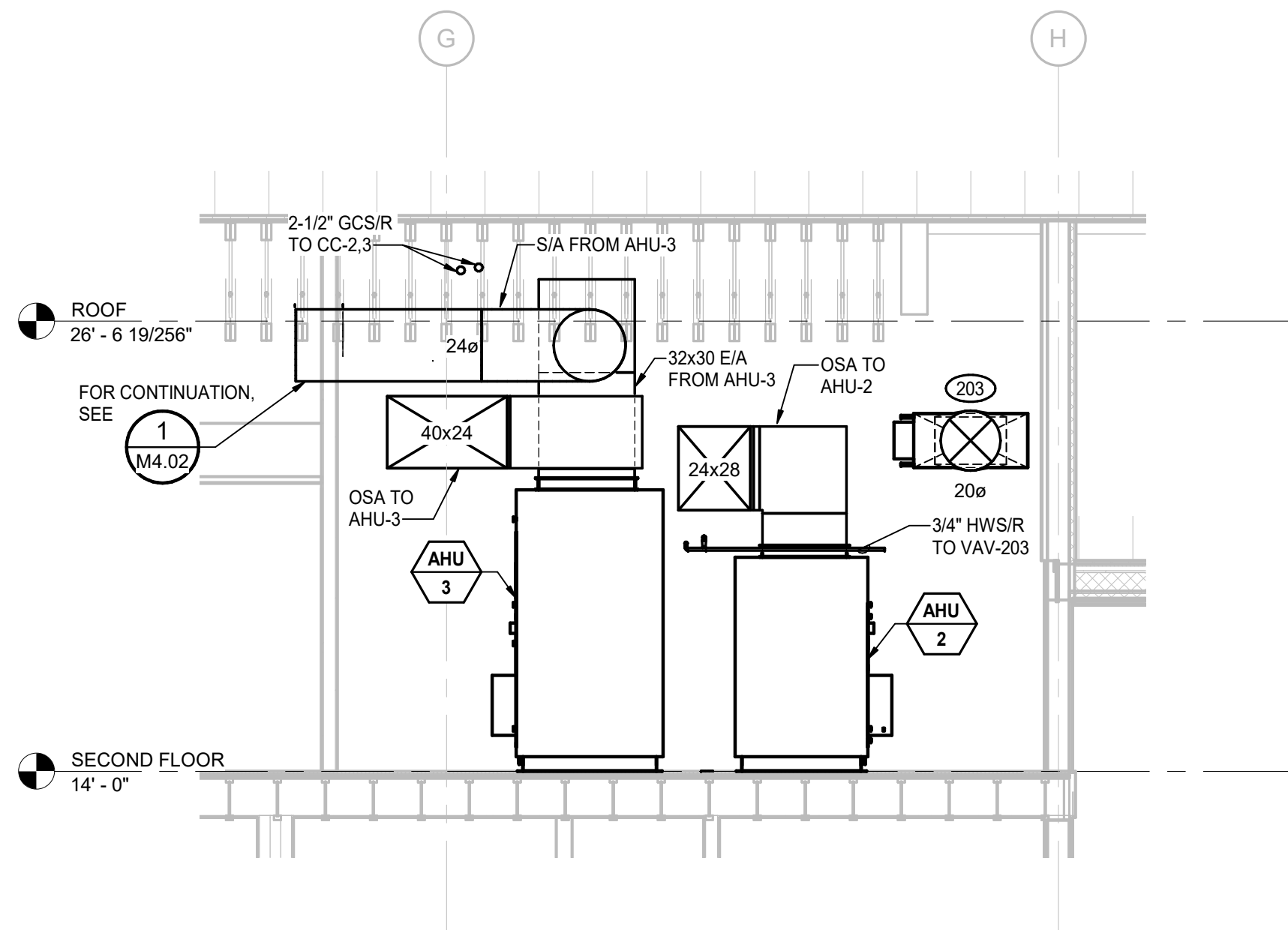
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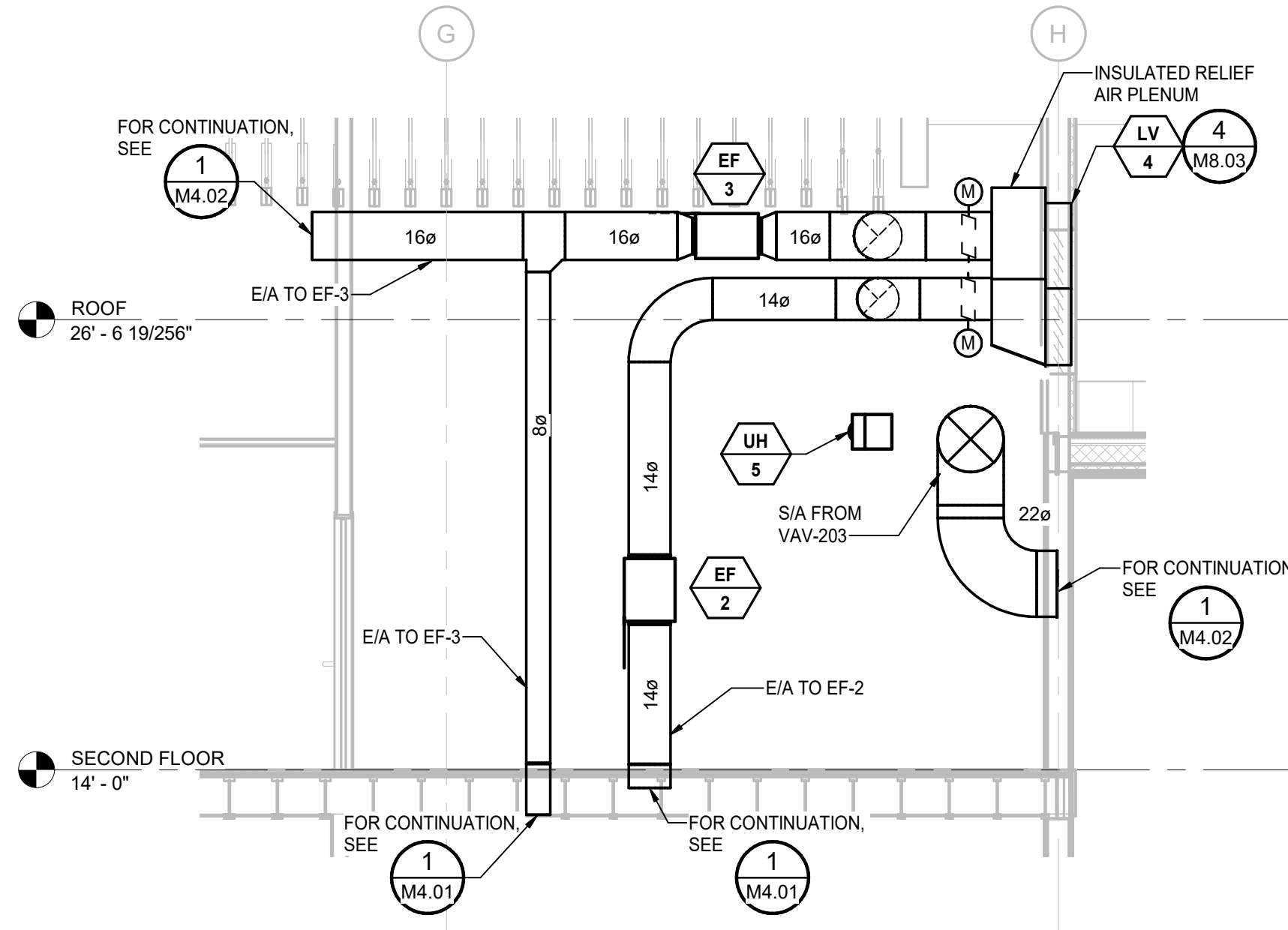
1 ENLARGED PLAN - FAN ROOM - SOUTH - MECH
M5.03 Scale: 1/4" = 1'-0"



A SECTION - FAN ROOM - SOUTH (EAST) 1
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B SECTION - FAN ROOM - SOUTH (EAST) 2
M5.03 Scale: 1/4" = 1'-0"



GENERAL NOTES

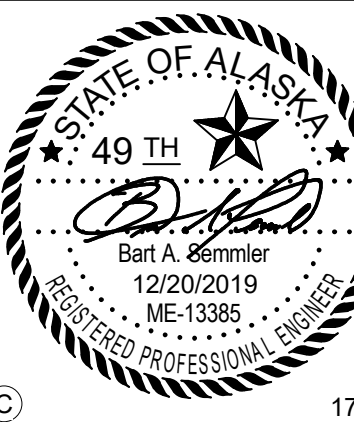
- FOR FLOOR PIPE SUPPORTS DETAIL, SEE 1/M7.05.

SHEET NOTES

- DUCT STATIC PRESSURE SENSOR TO AIR HANDLER SUPPLY FAN VSD CONTROLLER.



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ENLARGED PLANS AND
SECTIONS

Sheet No.
M5.03

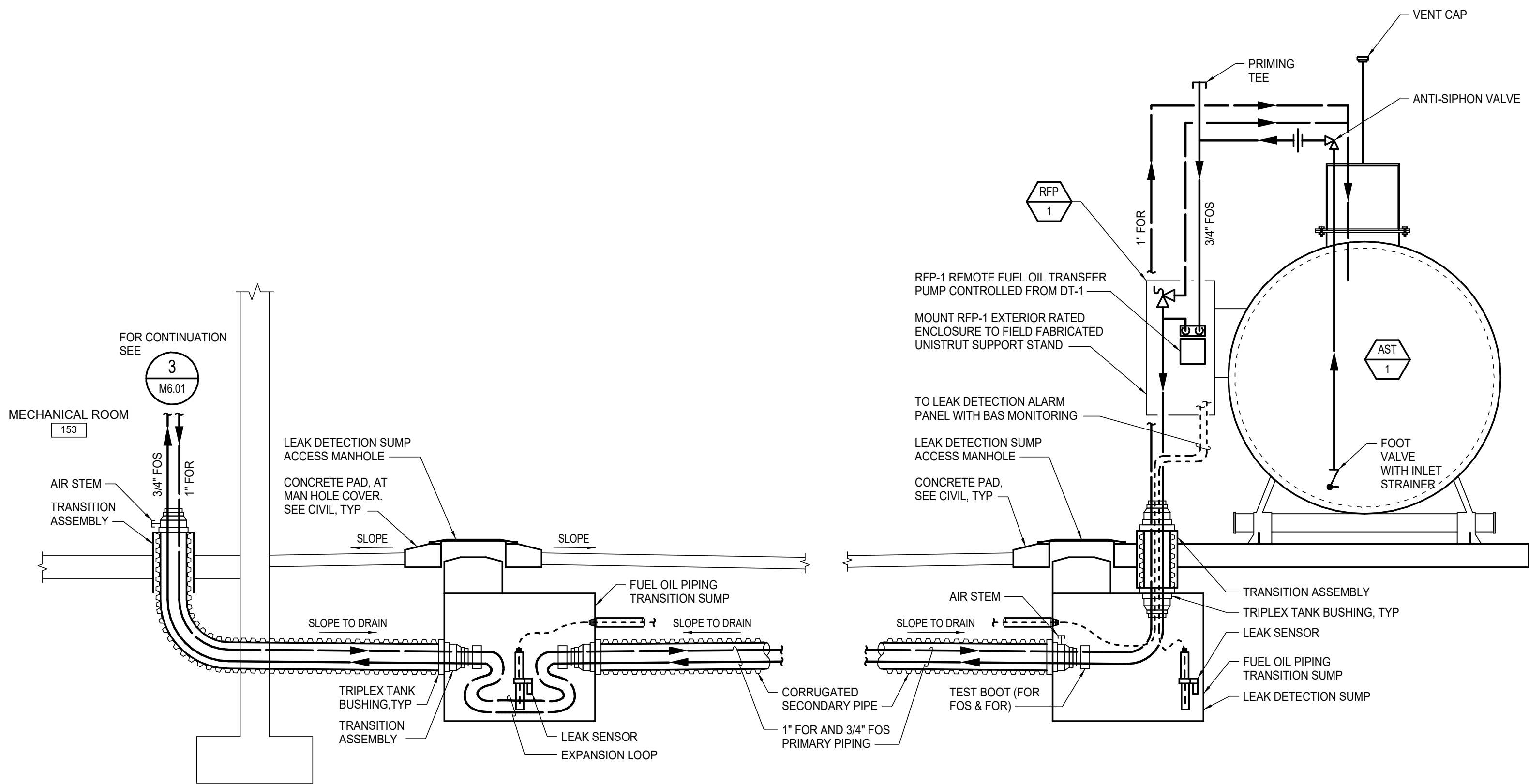
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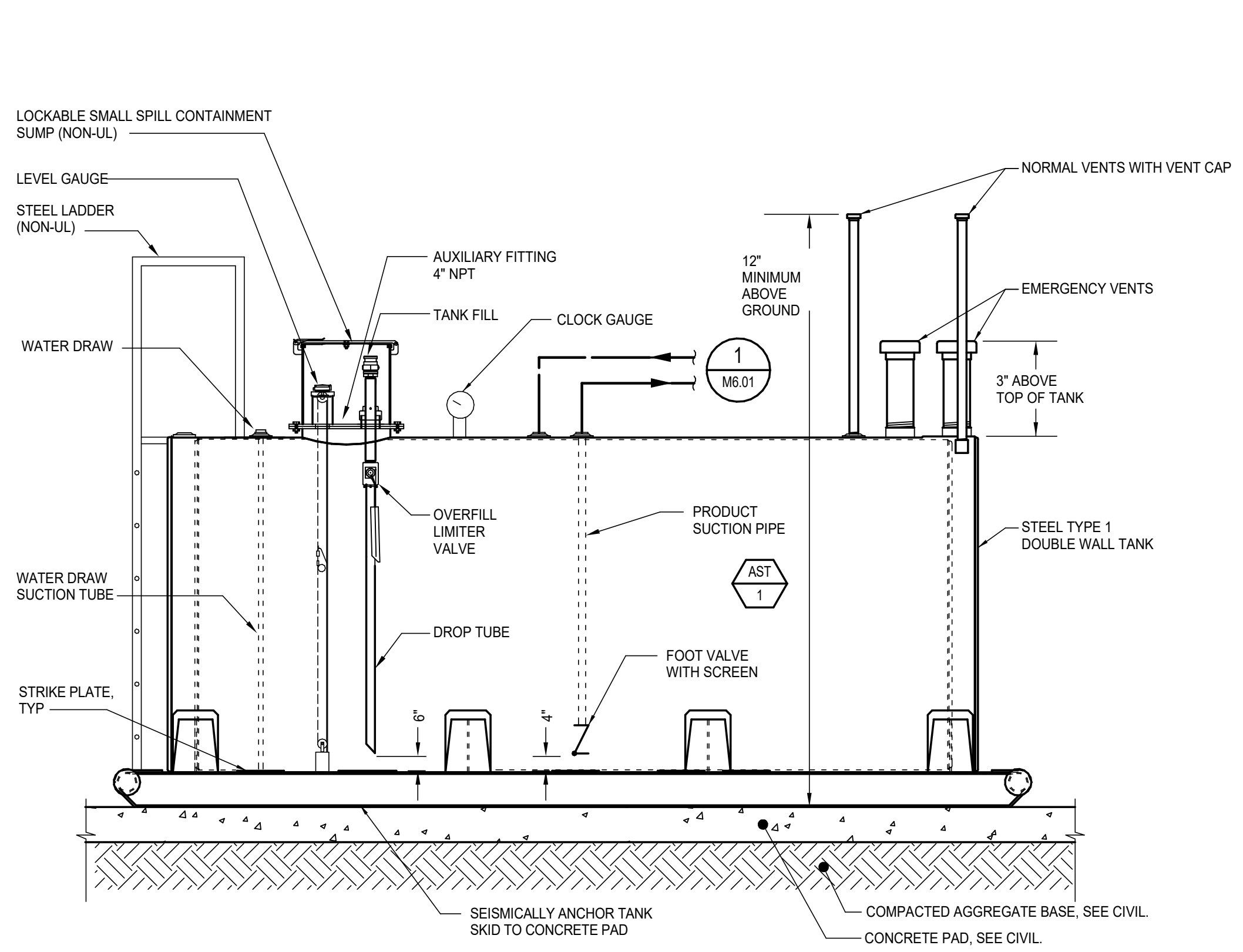
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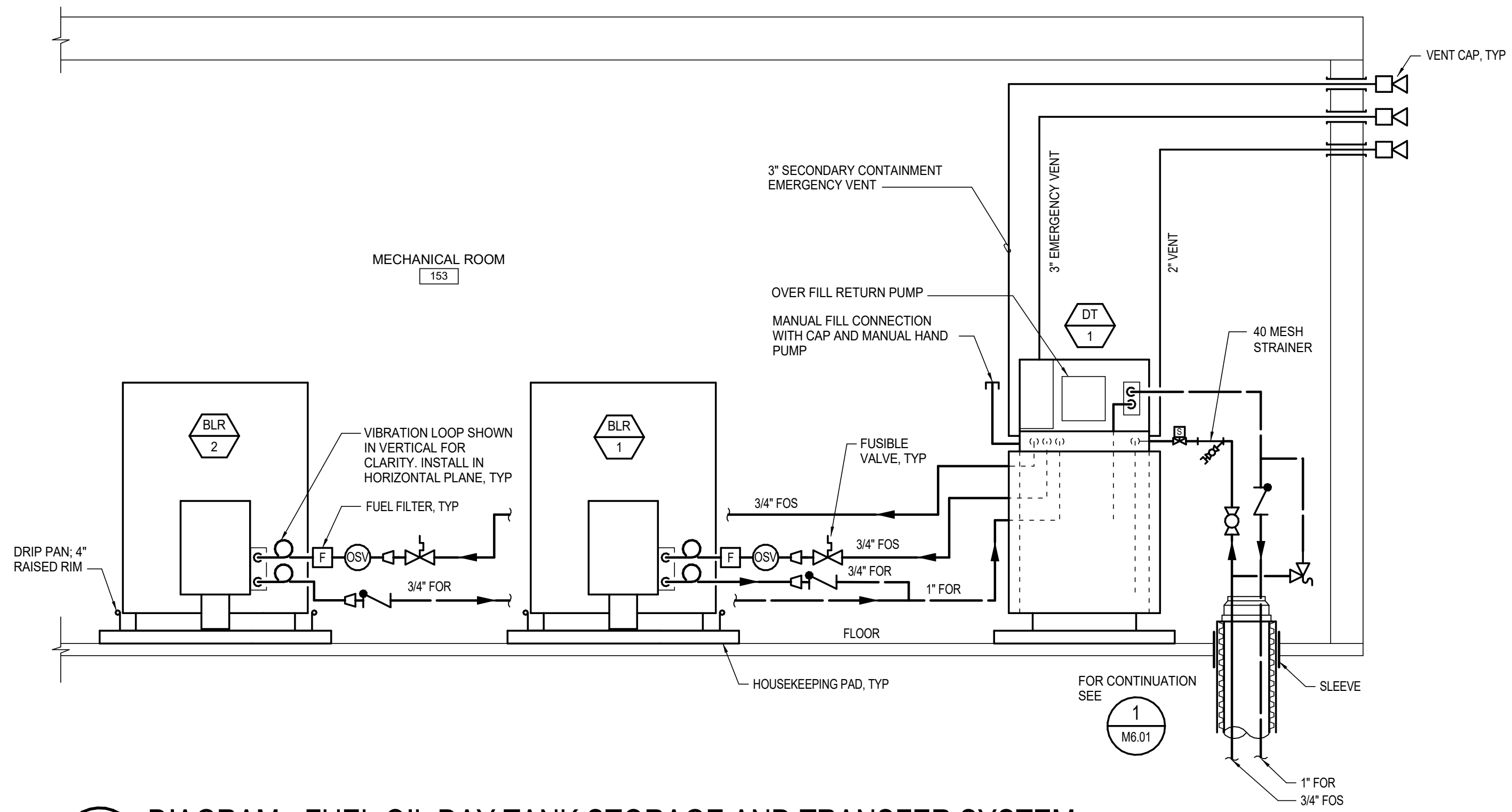
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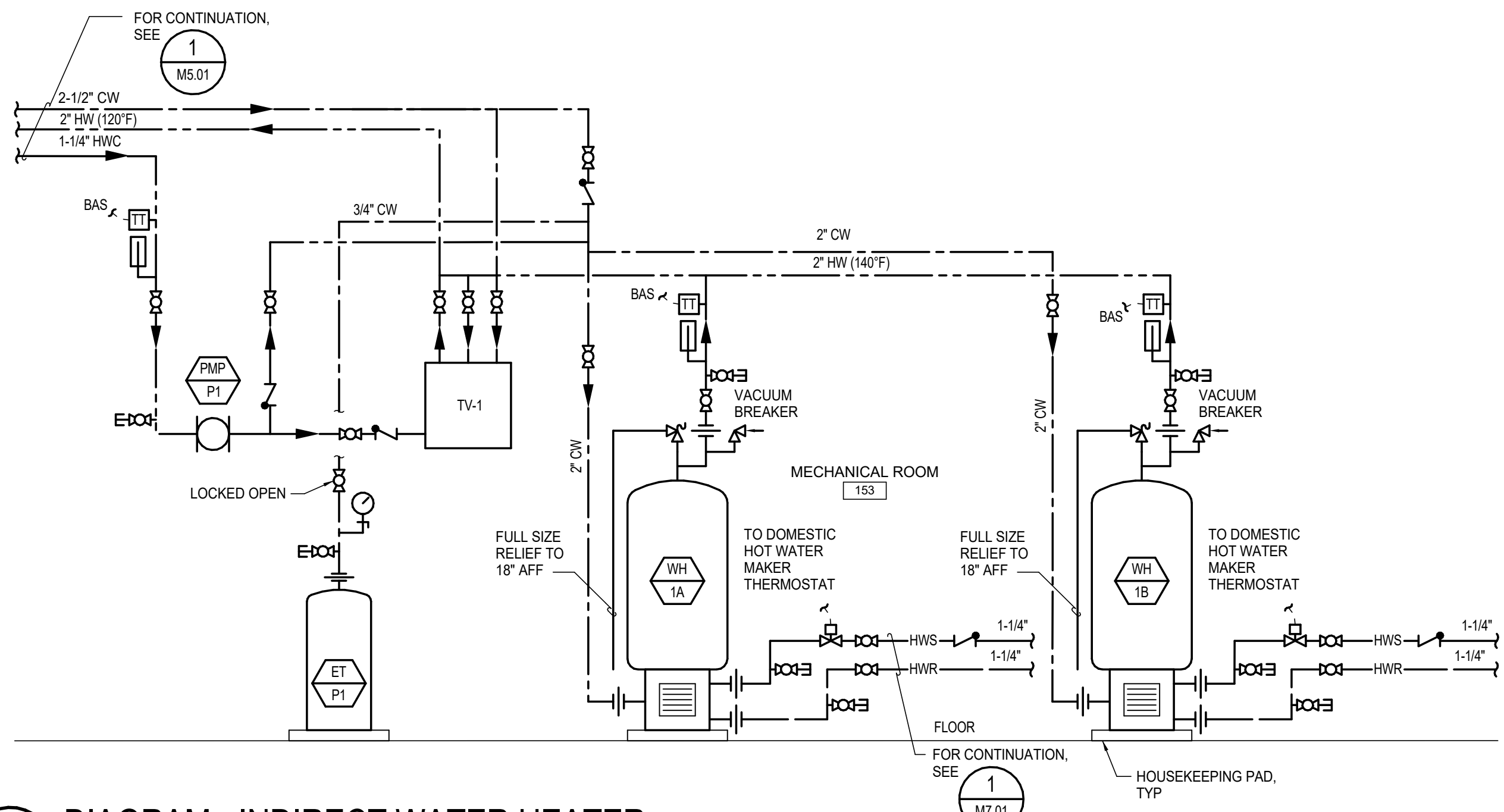
1 DIAGRAM - FUEL OIL STORAGE AND TRANSFER SYSTEM
M6.01 SCALE: NONE



2 DETAIL - ABOVEGROUND FUEL OIL STORAGE TANK (AST-1)
M6.01 SCALE: NONE



3 DIAGRAM - FUEL OIL DAY TANK STORAGE AND TRANSFER SYSTEM
M6.01 SCALE: NONE



4 DIAGRAM - INDIRECT WATER HEATER
M6.01 SCALE: NONE

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YAKUTAT, ALASKA

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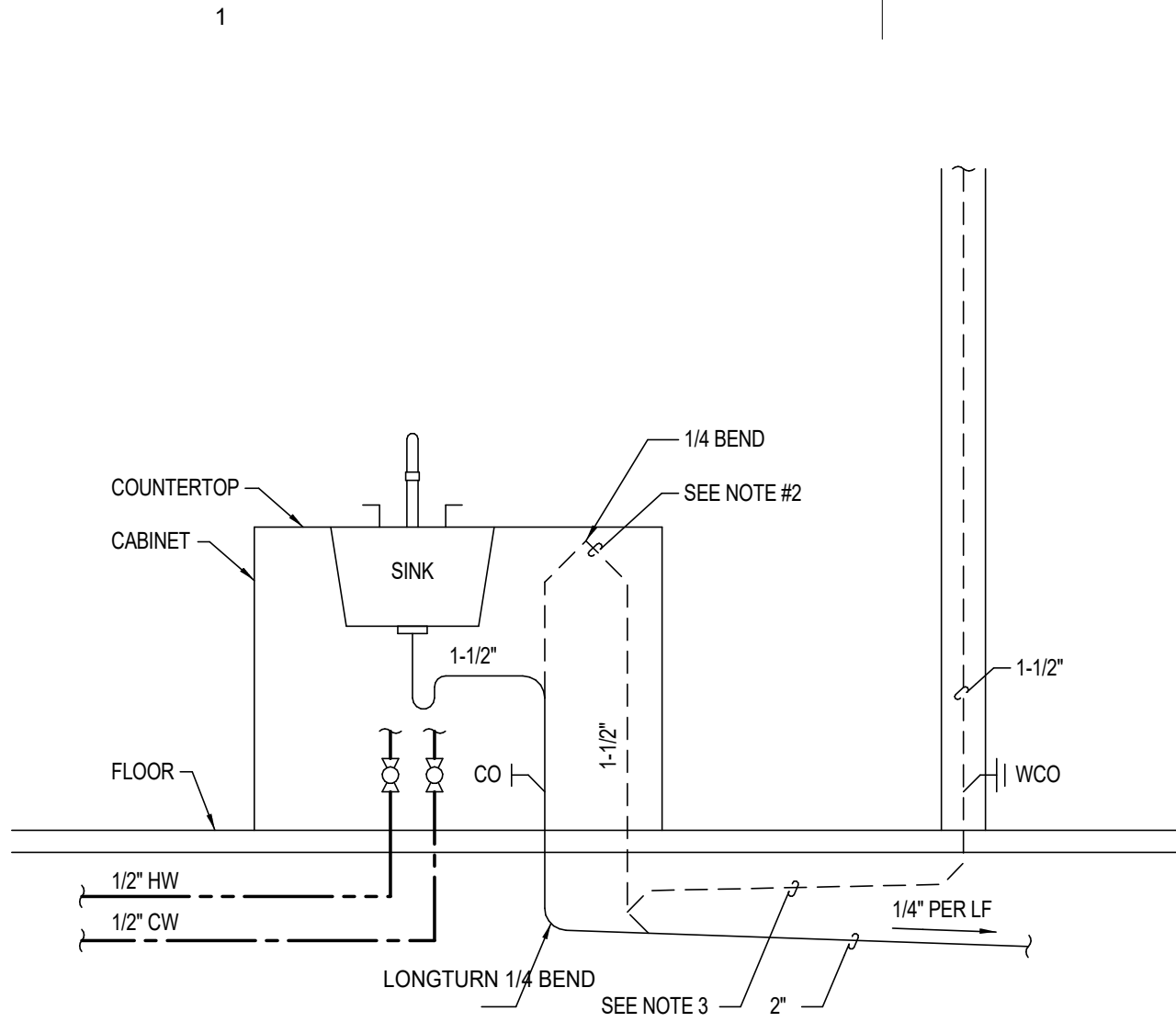
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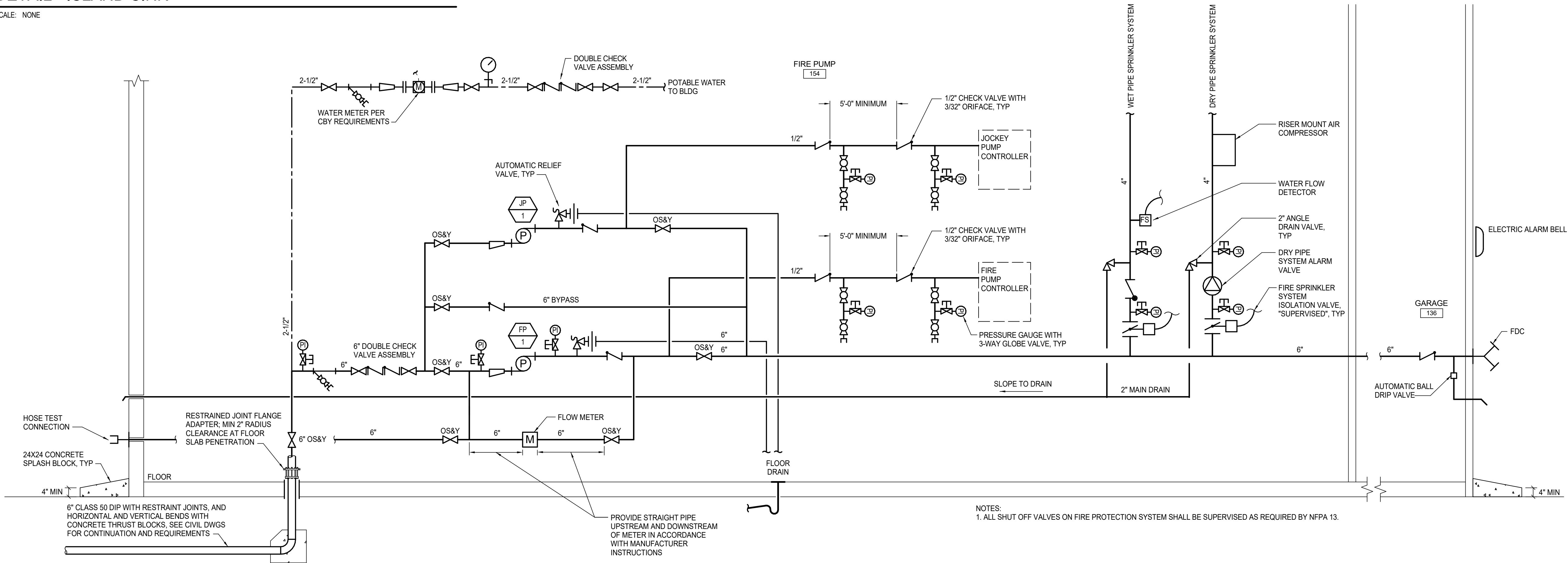
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- NOTE
- COORDINATE LOCATION OF VENT PIPING WITH CABINET CONSTRUCTION.
 - VENT PIPE MUST EXTEND ABOVE SINK DRAIN ELEVATION.
 - SLOPE HORIZONTAL PORTION OF VENT 1/4" PER LINEAL FOOT BACK TO WASTE CONNECTION. HORIZONTAL LENGTH MUST BE LESS THAN 20 FEET.

2 DETAIL - ISLAND SINK

M6.02 SCALE: NONE



1 DIAGRAM - FIRE WATER AND DOMESTIC WATER SERVICE ENTRY

M6.02 SCALE: NONE

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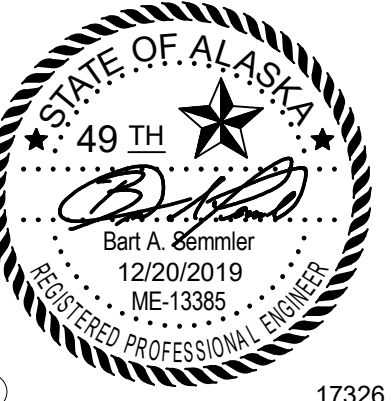
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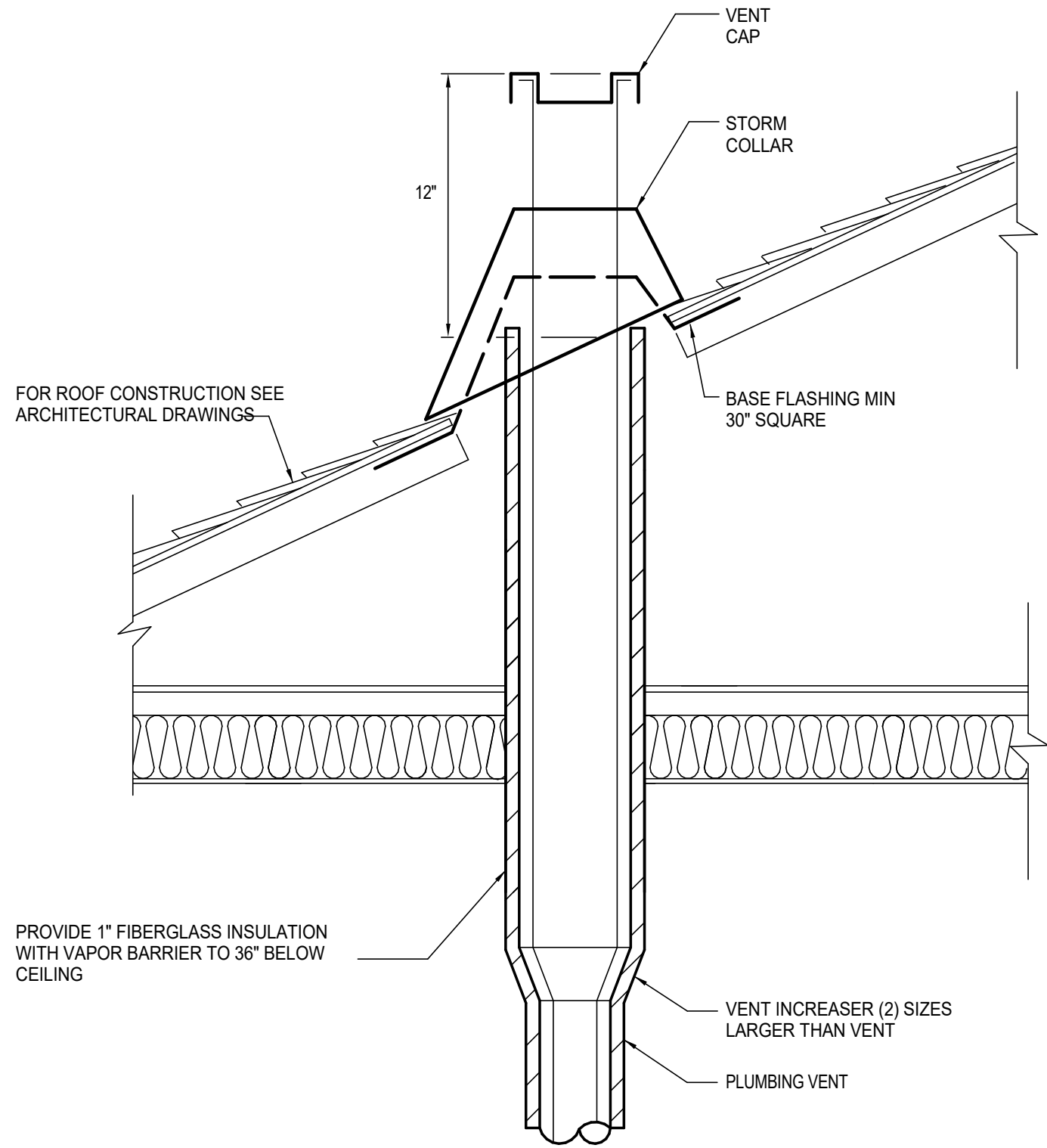
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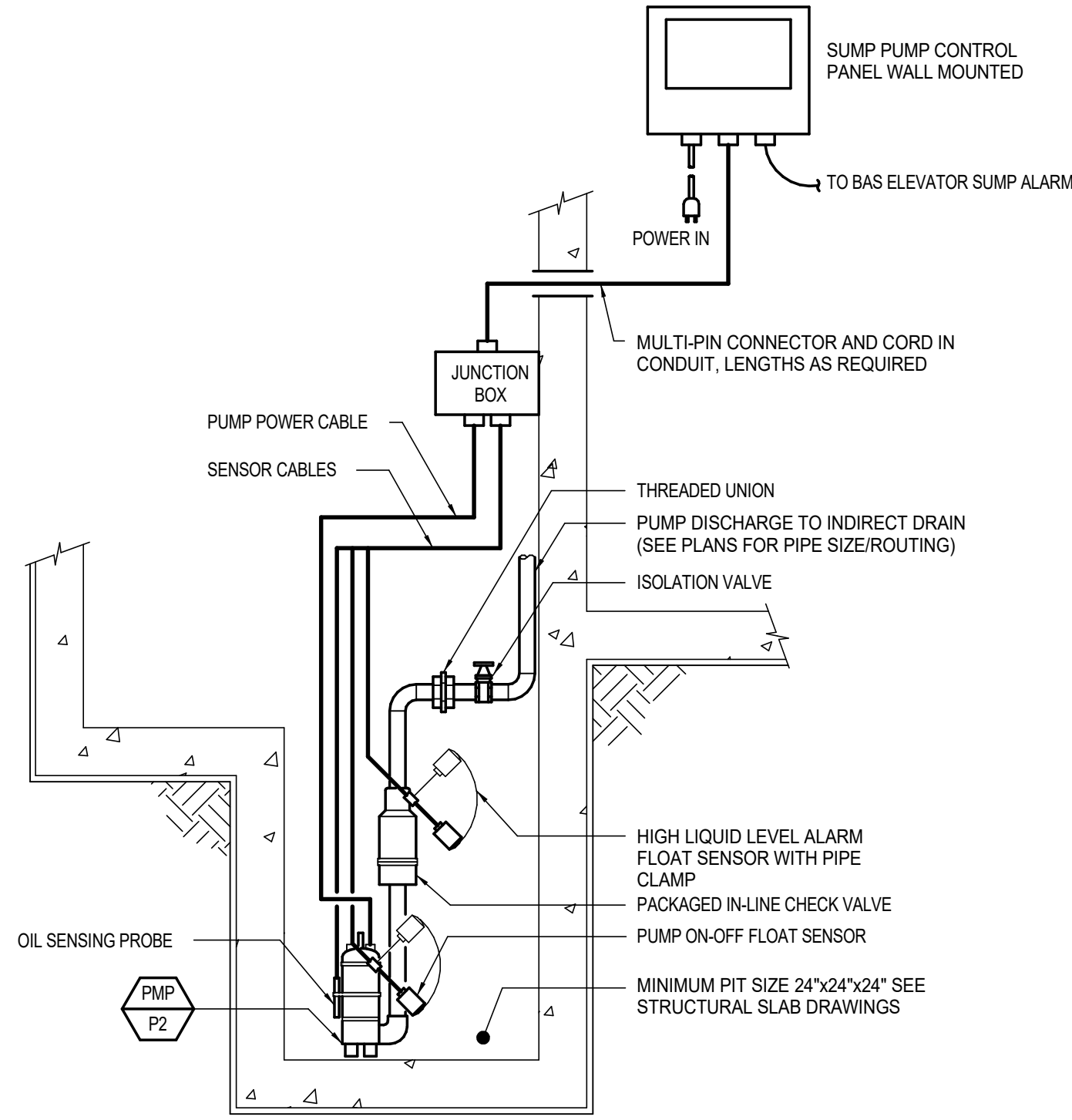
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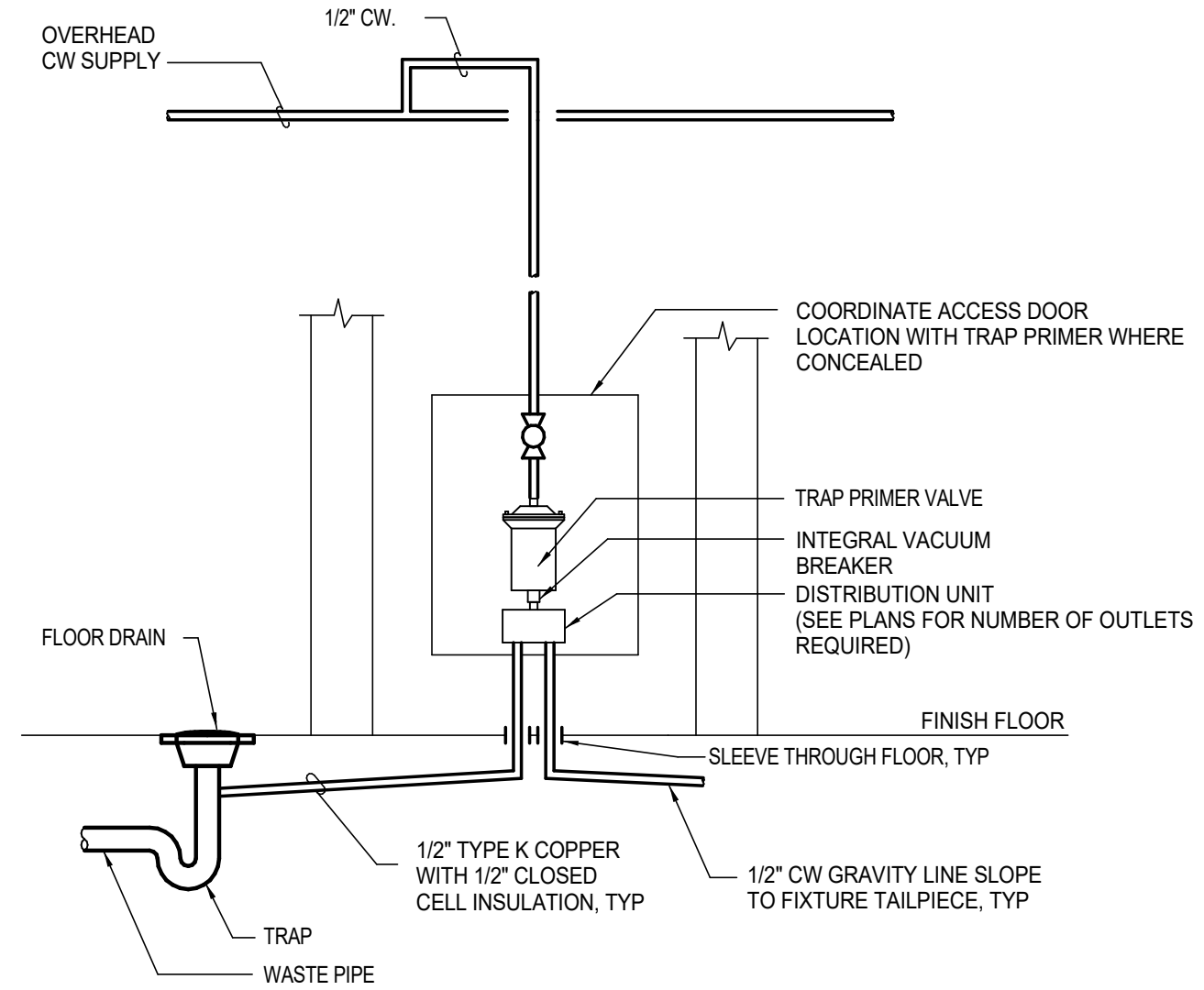
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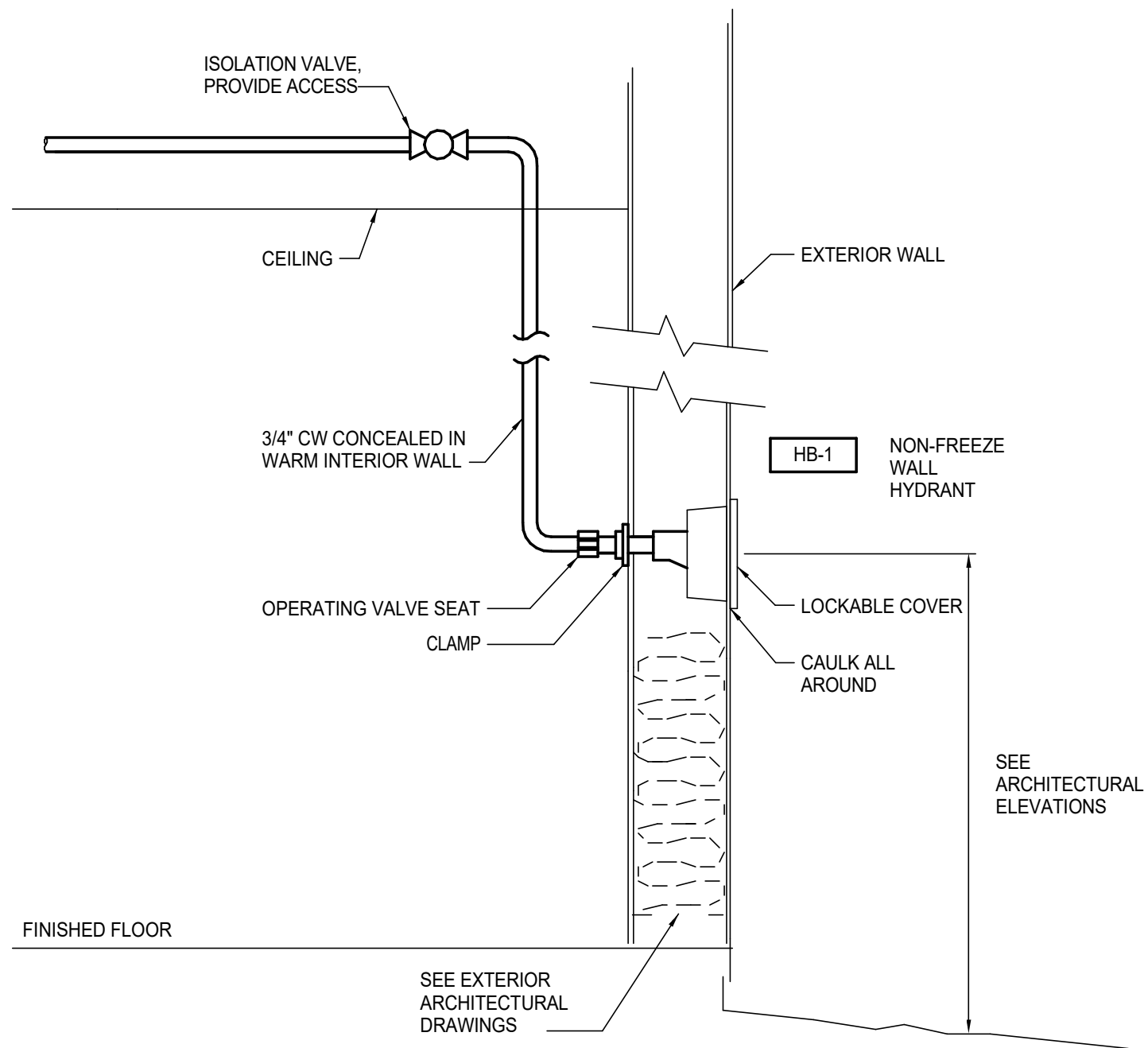
1 DETAIL - VENT THRU ROOF
M6.03 SCALE: NONE



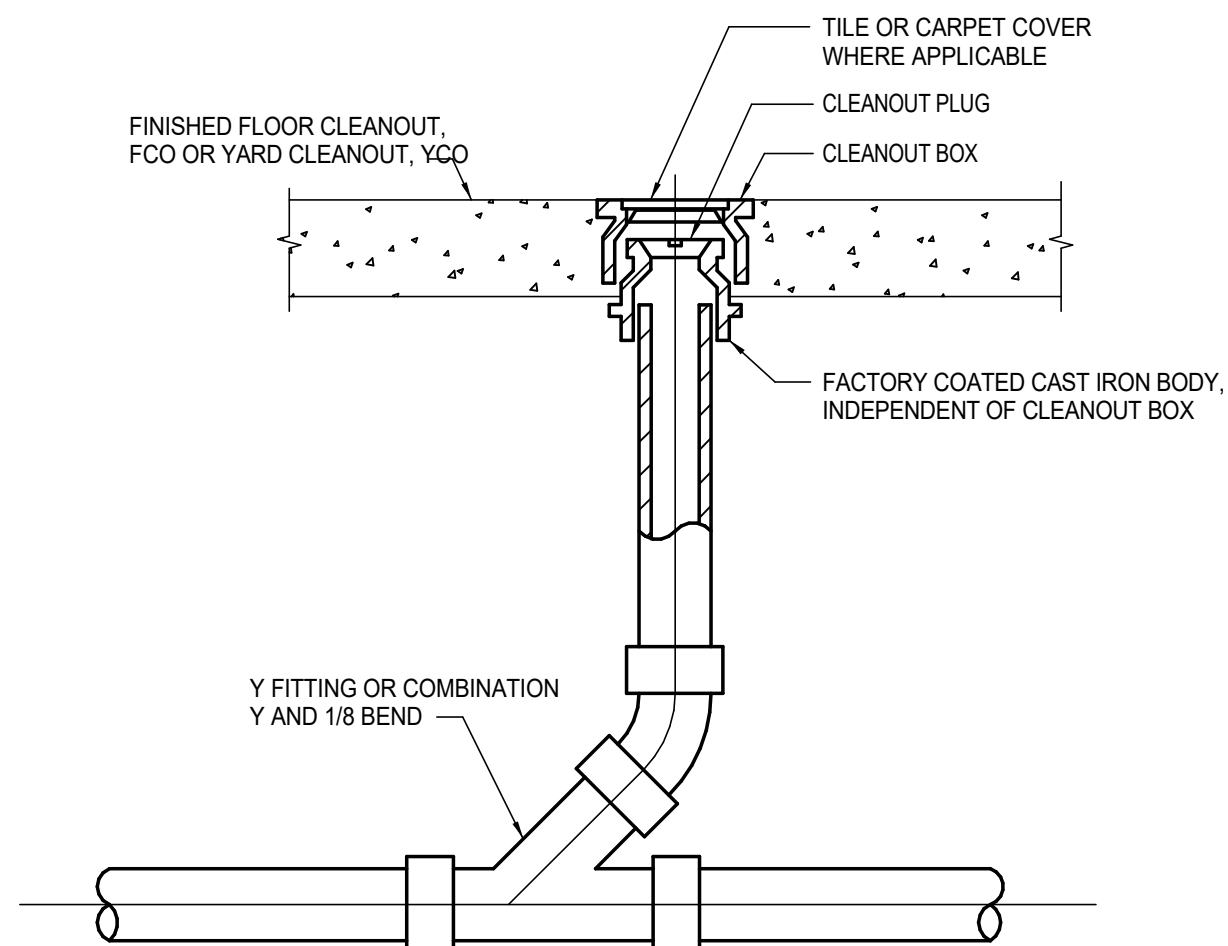
2 DETAIL - ELEVATOR SUMP PUMP
M6.03 SCALE: NONE



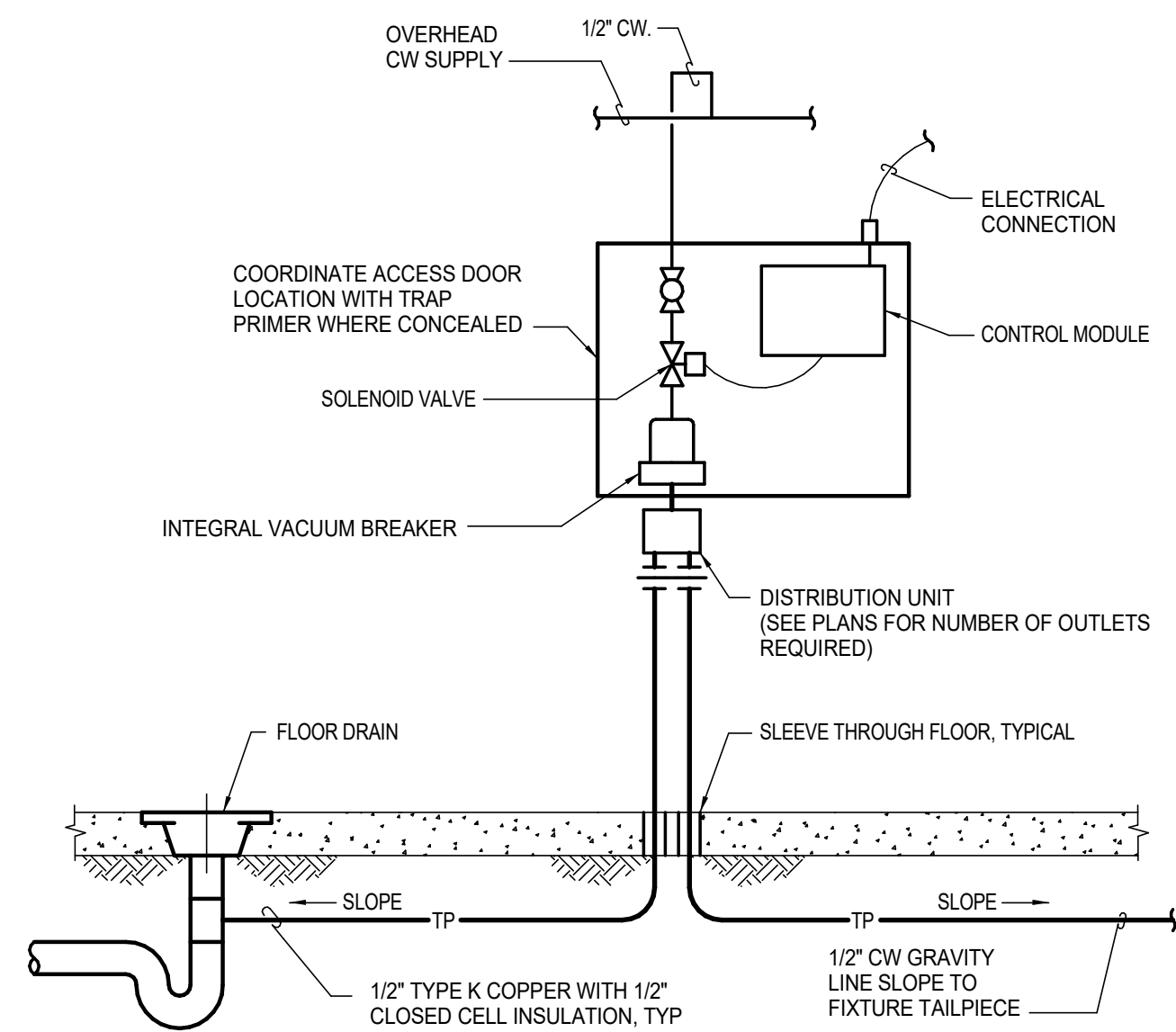
3 DETAIL - FLOOR DRAIN TRAP PRIMER (TP-1)
M6.03 SCALE: NONE



4 DETAIL - NON-FREEZE HOSE BIBB
M6.03 SCALE: NONE



5 DETAIL - FLOOR/YARD CLEAN OUT
M6.03 SCALE: NONE



6 DETAIL - ELECTRONIC FLOOR DRAIN TRAP PRIMER (TP-2)
M6.03 SCALE: NONE

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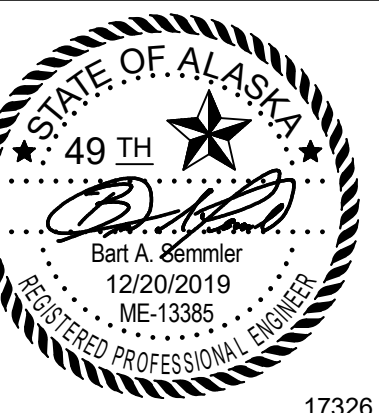
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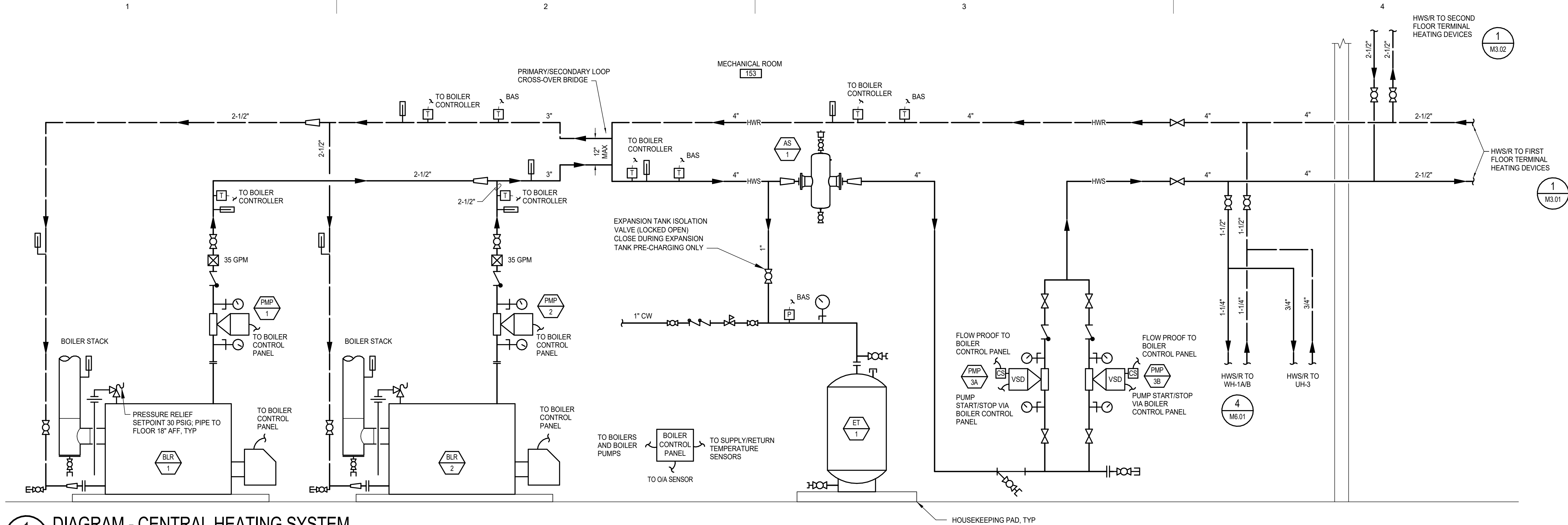
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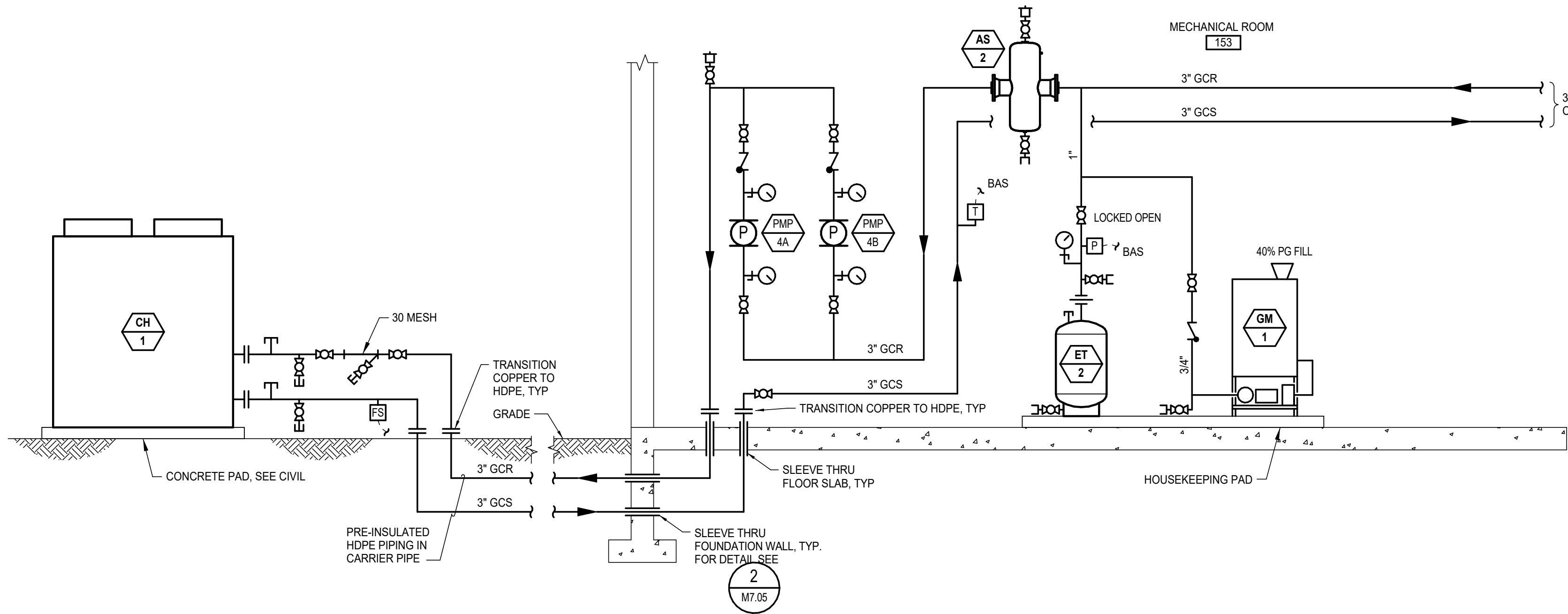
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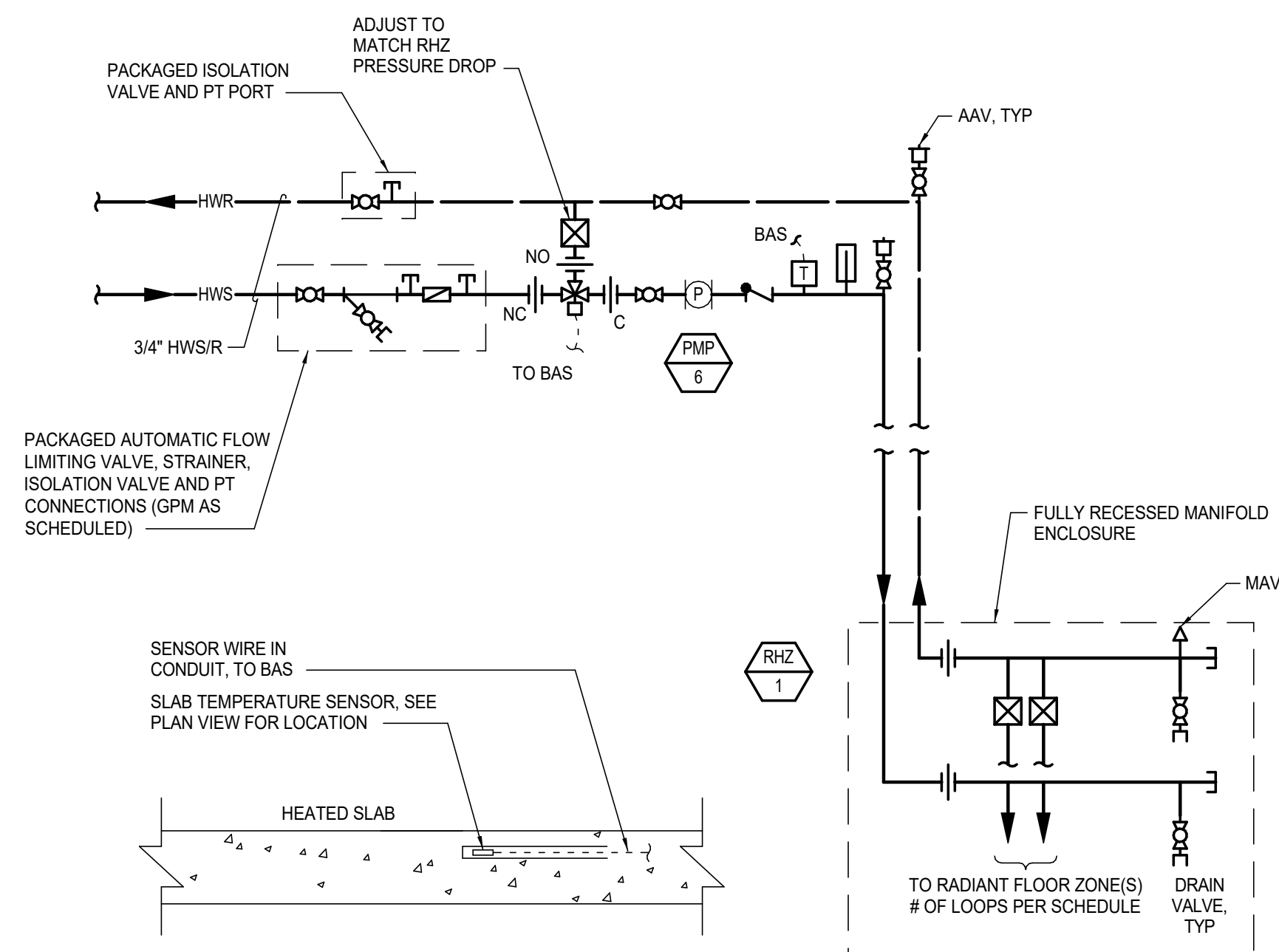
1 DIAGRAM - CENTRAL HEATING SYSTEM
M7.01 SCALE: NONE

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A



2 DIAGRAM - CENTRAL CHILLED GLYCOL SYSTEM
M7.01 SCALE: NONE



3 DIAGRAM - RADIANT FLOOR HEATING ZONE (3-WAY)
M7.01 SCALE: NONE

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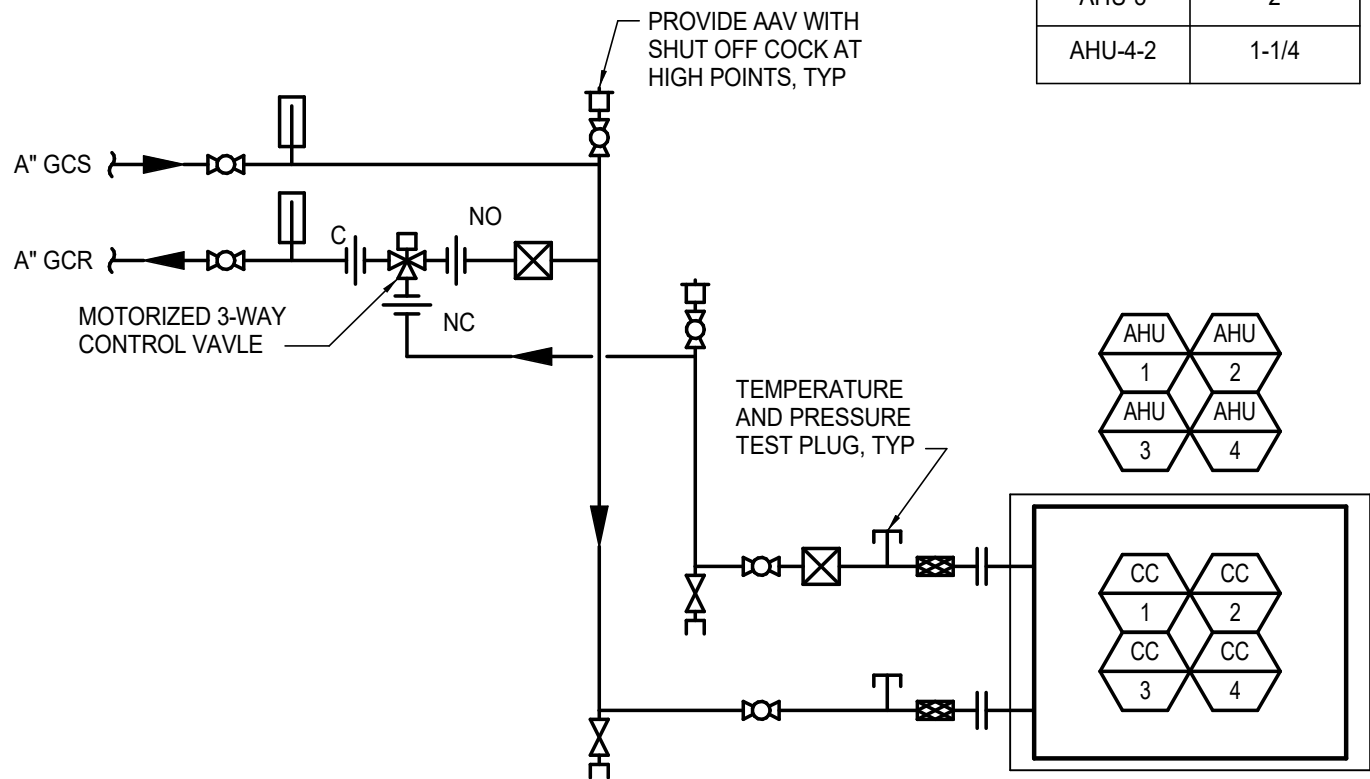
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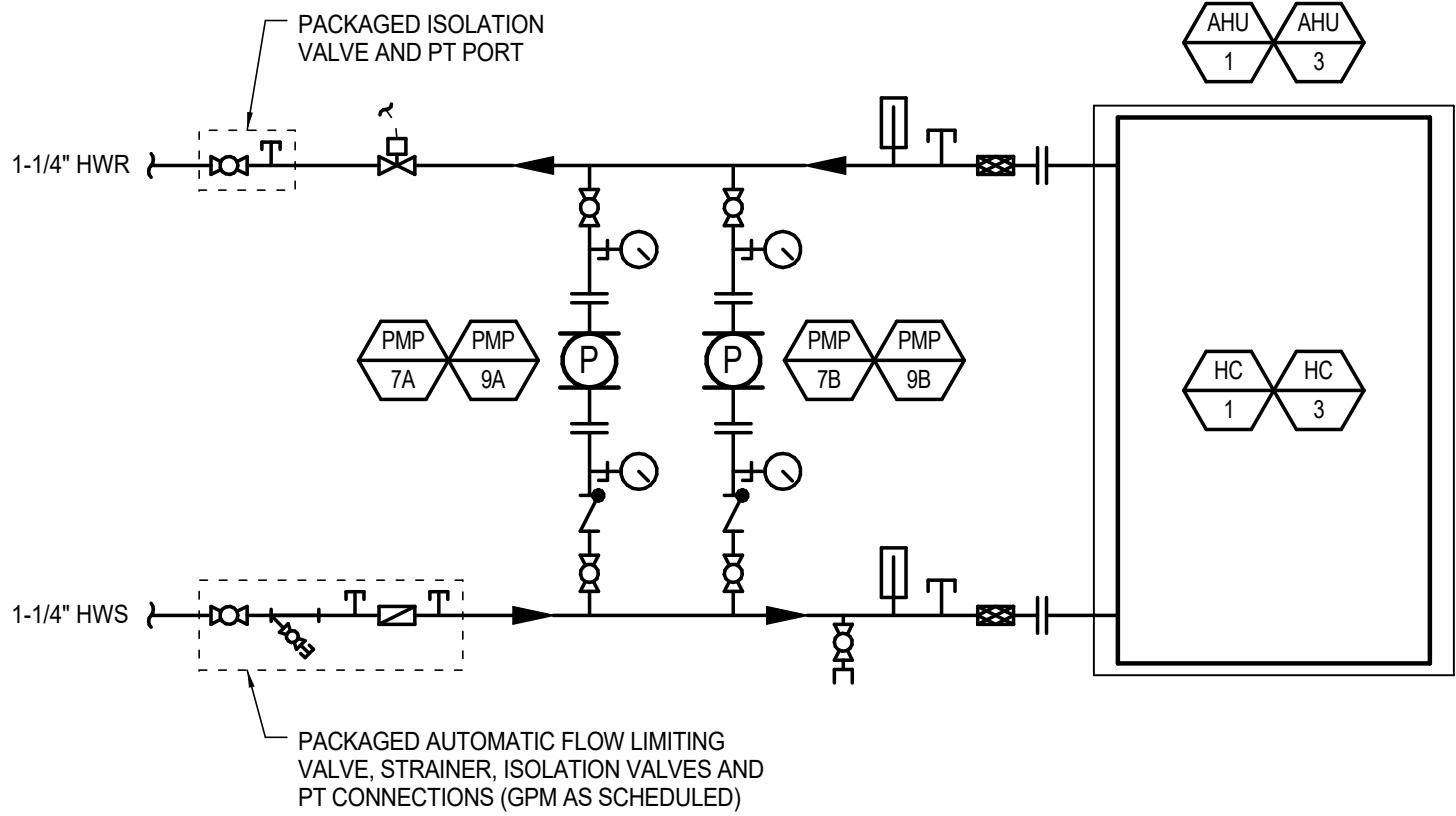
PIPE SIZE	
AHU NUMBER	A (INCHES)
AHU-1	2
AHU-2	2
AHU-3	2
AHU-4-2	1-1/4



DETAIL NOTES

- LAYOUT FLANGES AND FITTINGS TO ALLOW REMOVAL OF COIL WITHOUT HAVING TO REMOVE ANY OTHER FITTINGS

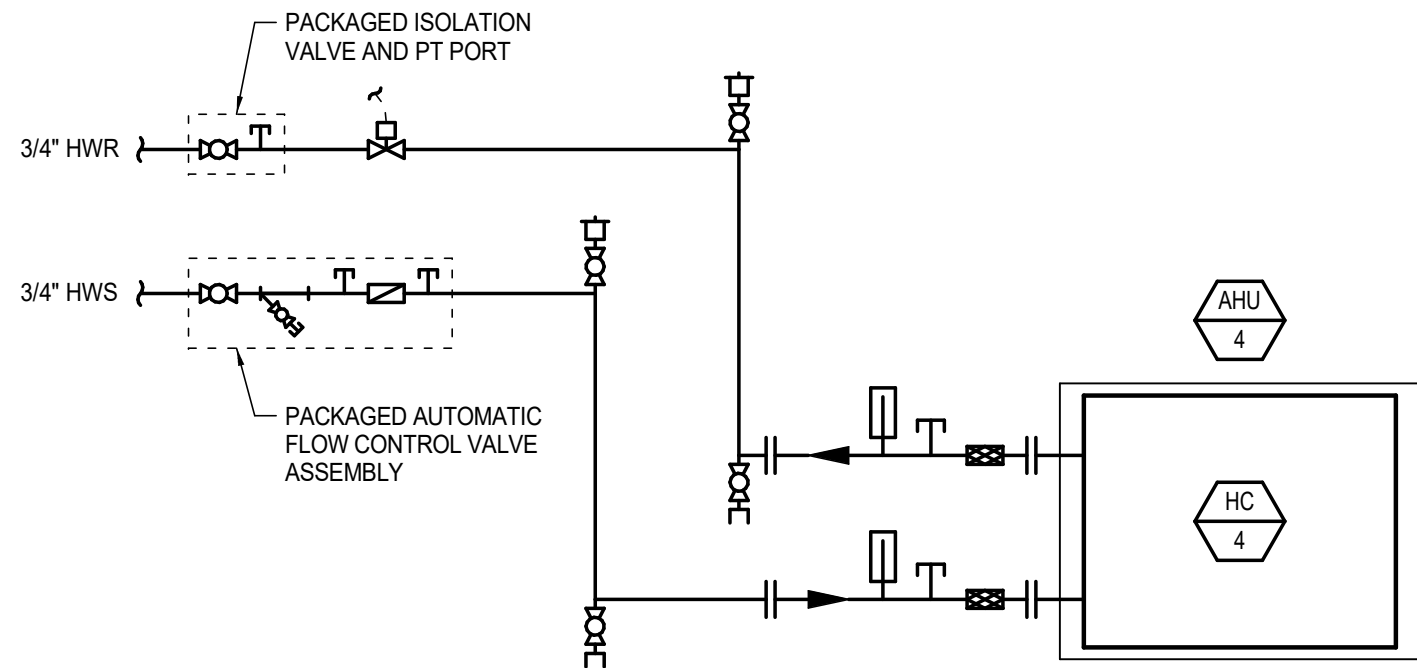
1 DIAGRAM - TYPICAL COOLING COIL PIPING
SCALE: NONE



DETAIL NOTES

- LAYOUT FLANGES AND FITTINGS TO ALLOW REMOVAL OF COIL WITHOUT HAVING TO REMOVE ANY OTHER FITTINGS

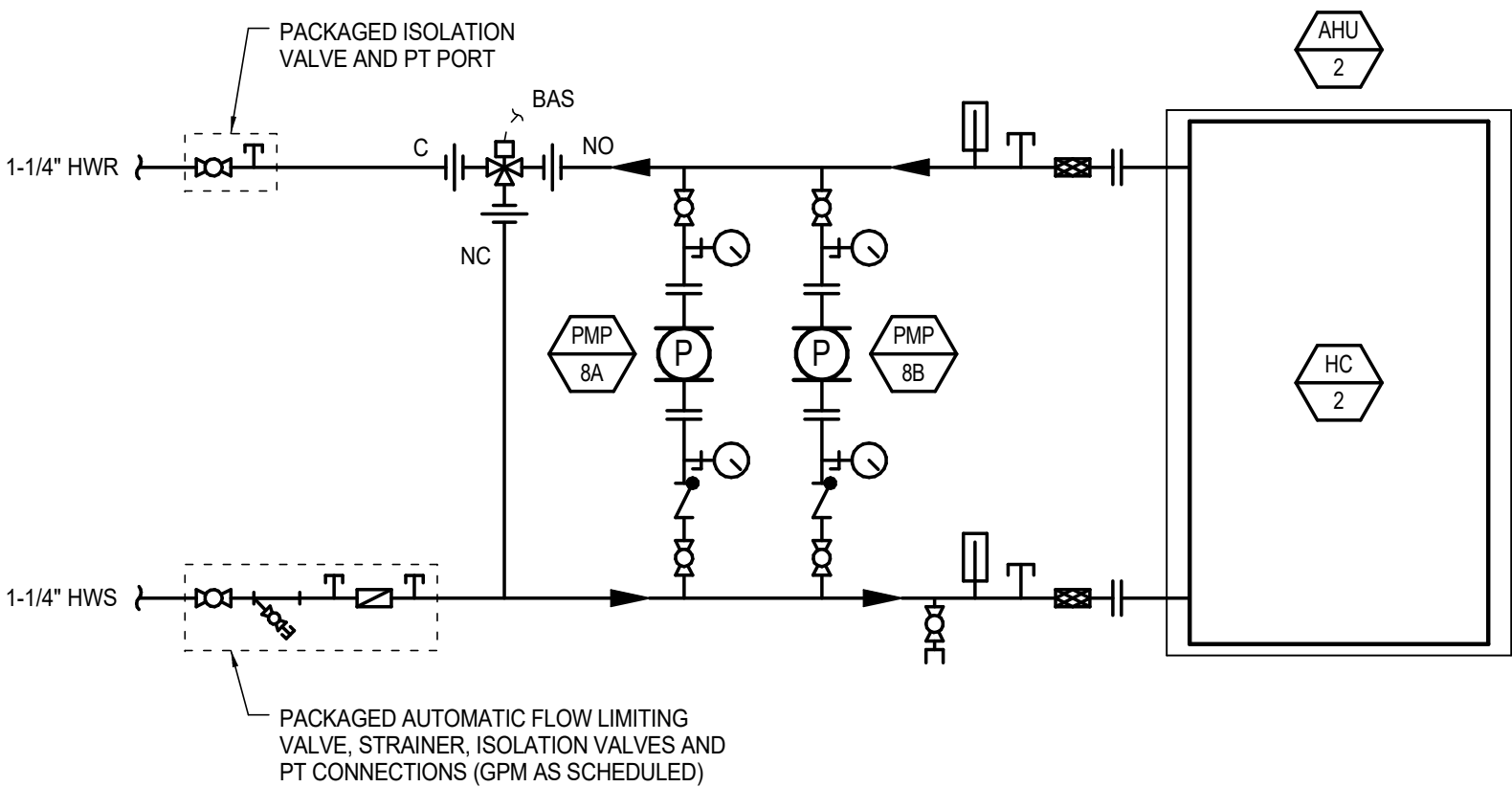
2 DIAGRAM - PUMPED AHU HEATING COIL (2-WAY)
SCALE: NONE



DETAIL NOTES

- LAYOUT FLANGES AND FITTINGS TO ALLOW REMOVAL OF COIL WITHOUT HAVING TO REMOVE ANY OTHER FITTINGS

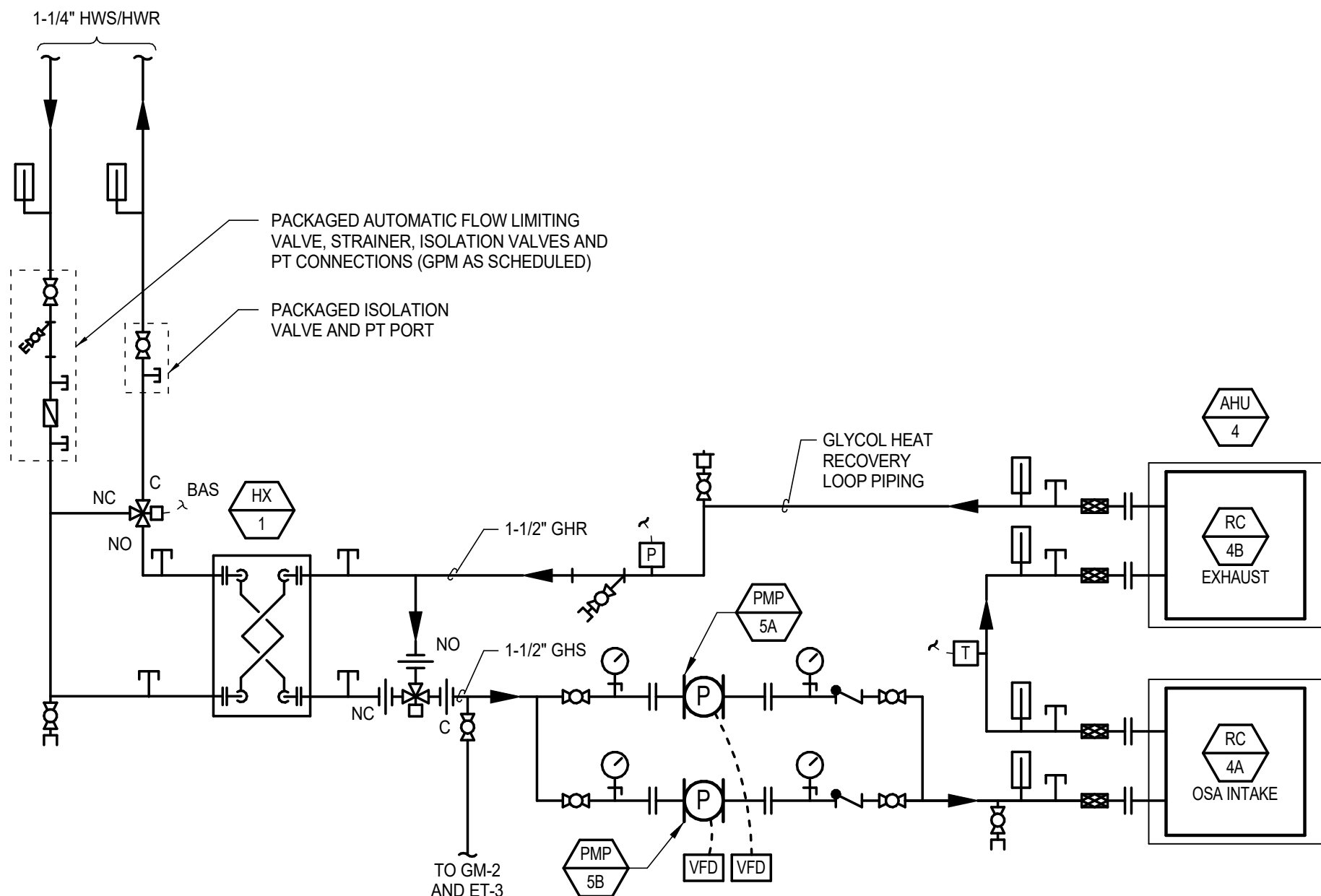
3 DIAGRAM - AHU HEATING COIL PIPING (NON PUMPED)
SCALE: NONE



DETAIL NOTES

- LAYOUT FLANGES AND FITTINGS TO ALLOW REMOVAL OF COIL WITHOUT HAVING TO REMOVE ANY OTHER FITTINGS

4 DIAGRAM - PUMPED AHU HEATING COIL (3-WAY)
SCALE: NONE

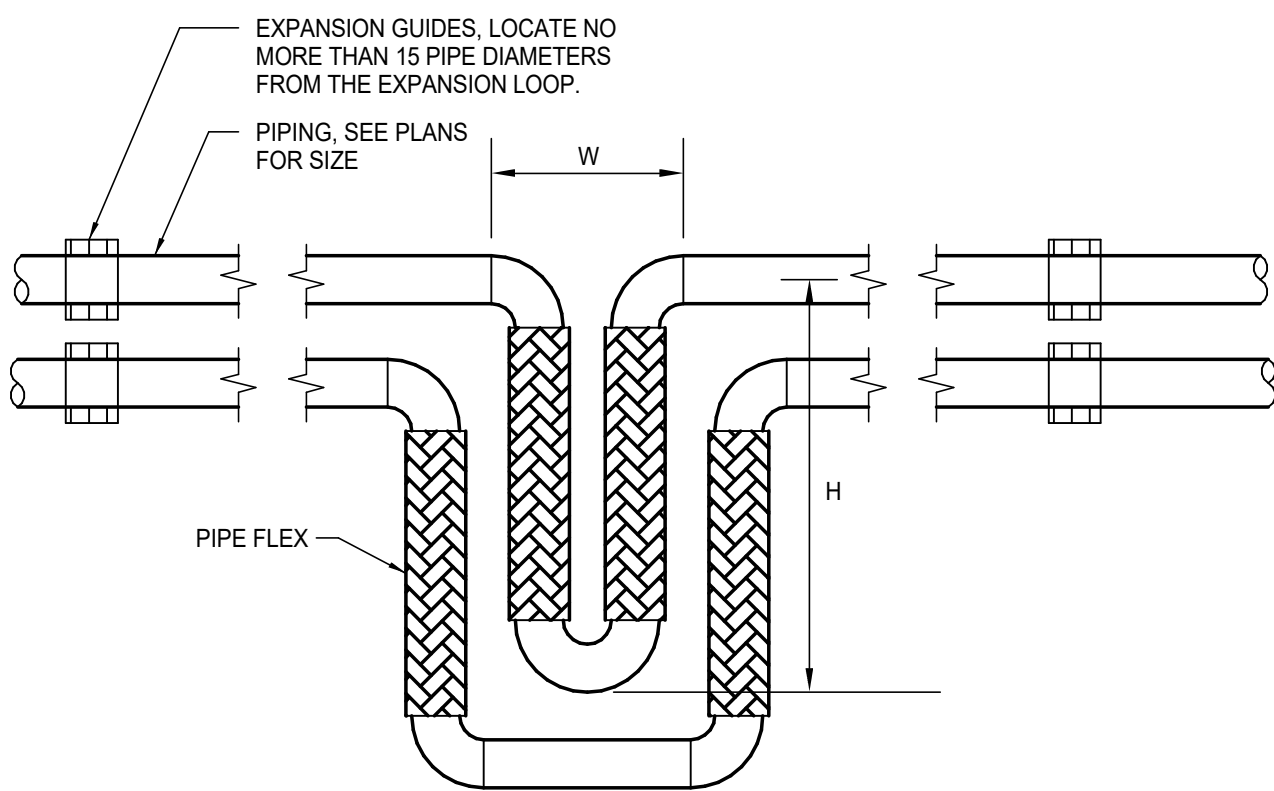


DETAIL NOTES

- LAYOUT FLANGES AND FITTINGS TO ALLOW REMOVAL OF COIL WITHOUT HAVING TO REMOVE ANY OTHER FITTINGS

5 AHU-4 HEAT RECOVERY LOOP PIPING
SCALE: NONE

PIPE SIZE	MODEL #	H	W
1"	MLS80100	21"	10-1/4"
1-1/4"	MLS80125	22"	11-1/4"
1-1/2"	MLS80150	24"	11-3/4"
2"	MLS80200	26"	14"
2-1/2"	MLS80250	27"	15"



DETAIL NOTES

- METRAFLEX METRALOOPS BASIS OF DESIGN.
- ALL EXPANSION LOOPS SIZED FOR A 4" CONTRACTION OR EXPANSION.
- PROVIDE ADDITIONAL SUPPORT FOR HORIZONTAL INSTALLATION, PER MANUFACTURER'S RECOMMENDED INSTALLATION INSTRUCTIONS.

6 DETAIL - PIPE EXPANSION LOOP
SCALE: NONE

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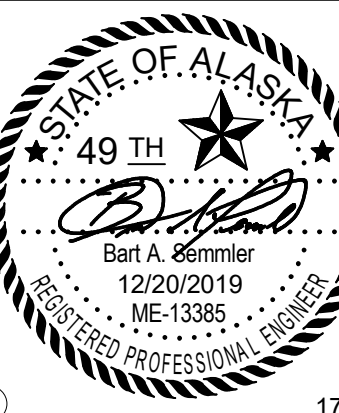
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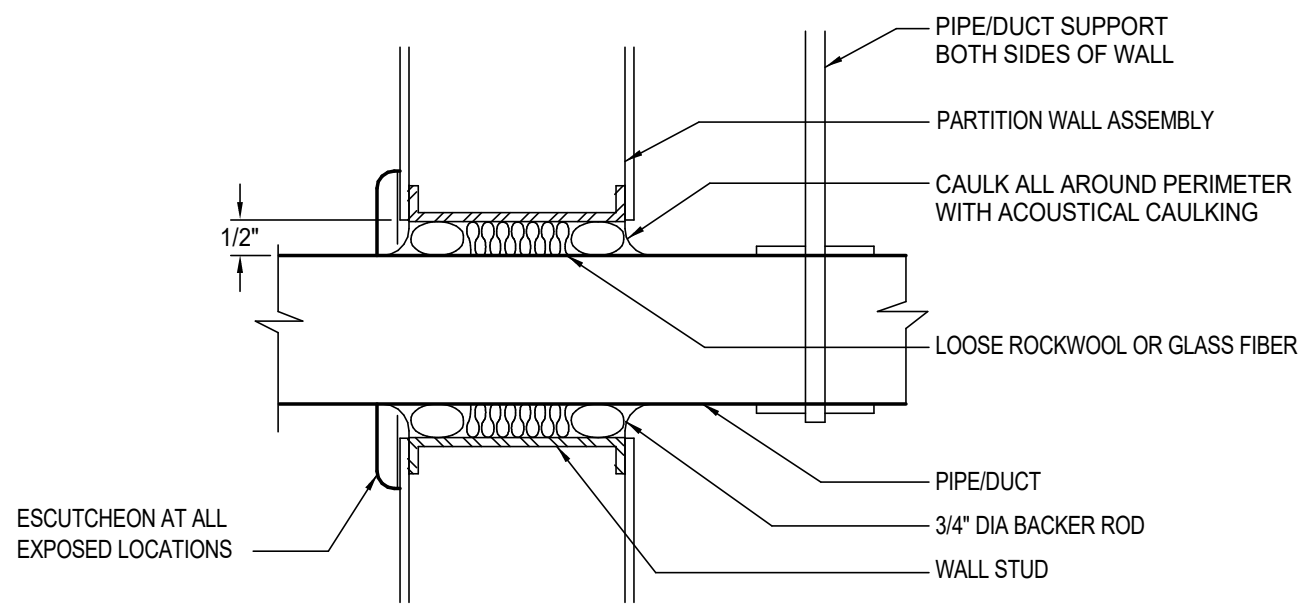
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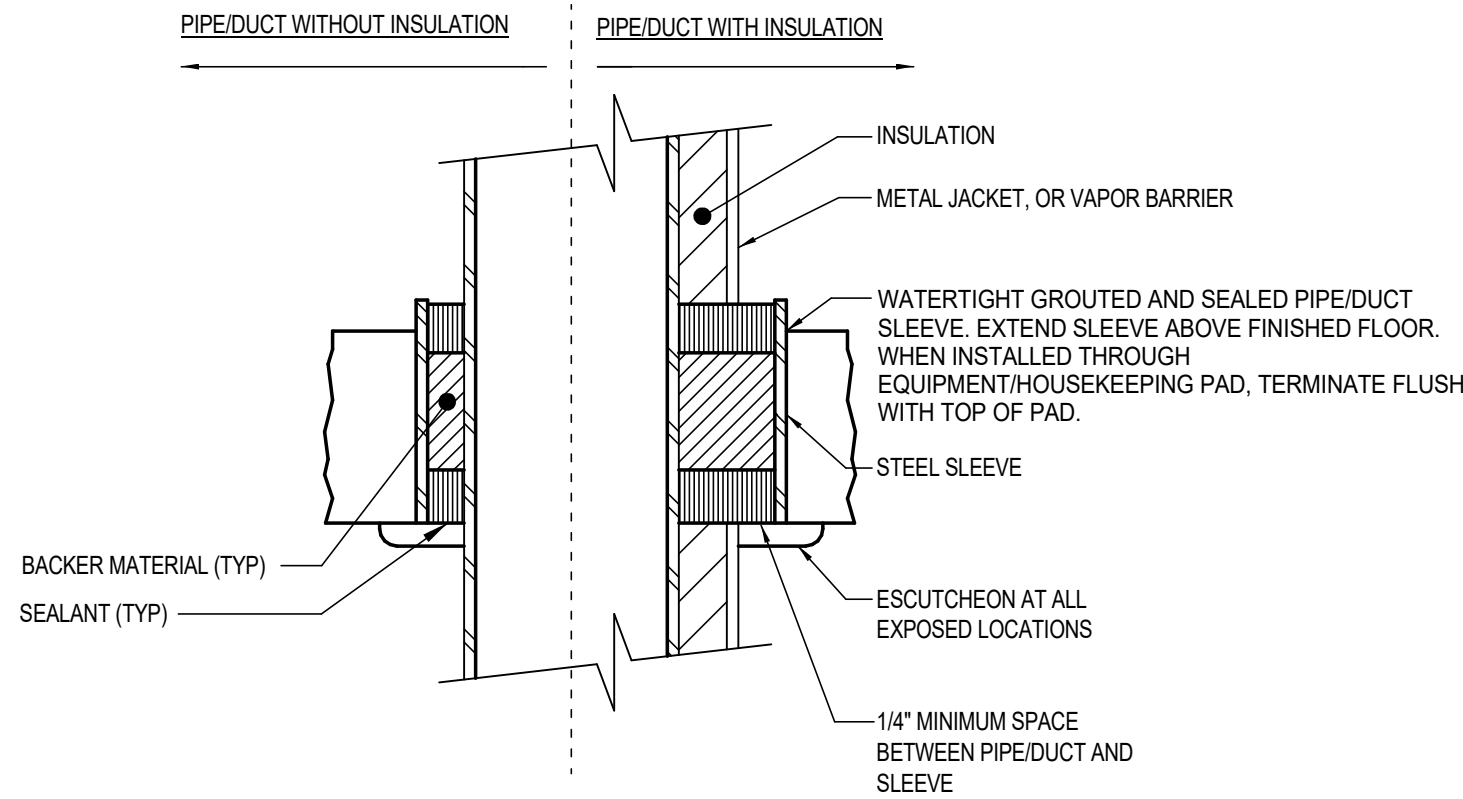
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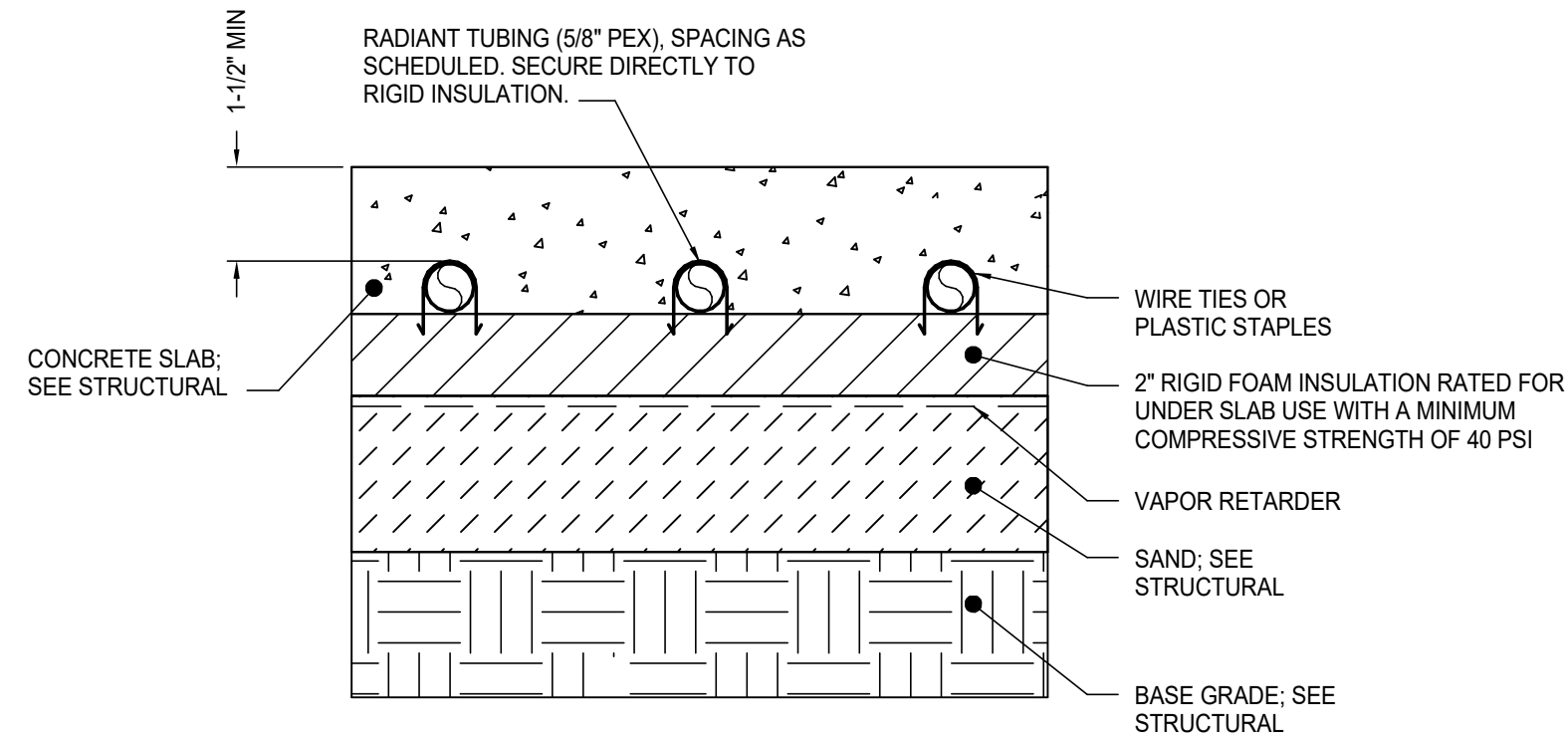
DETAIL NOTES

- PIPE/DUCT SHALL NOT CONTACT WALL.
- CAULKING SHALL FORM AIR-TIGHT SEAL AROUND PIPE/DUCT.
- INSTALL PENETRATIONS THRU FIRE RATED WALLS IN ACCORDANCE WITH APPROVED UL ASSEMBLY LISTING.



DETAIL NOTES

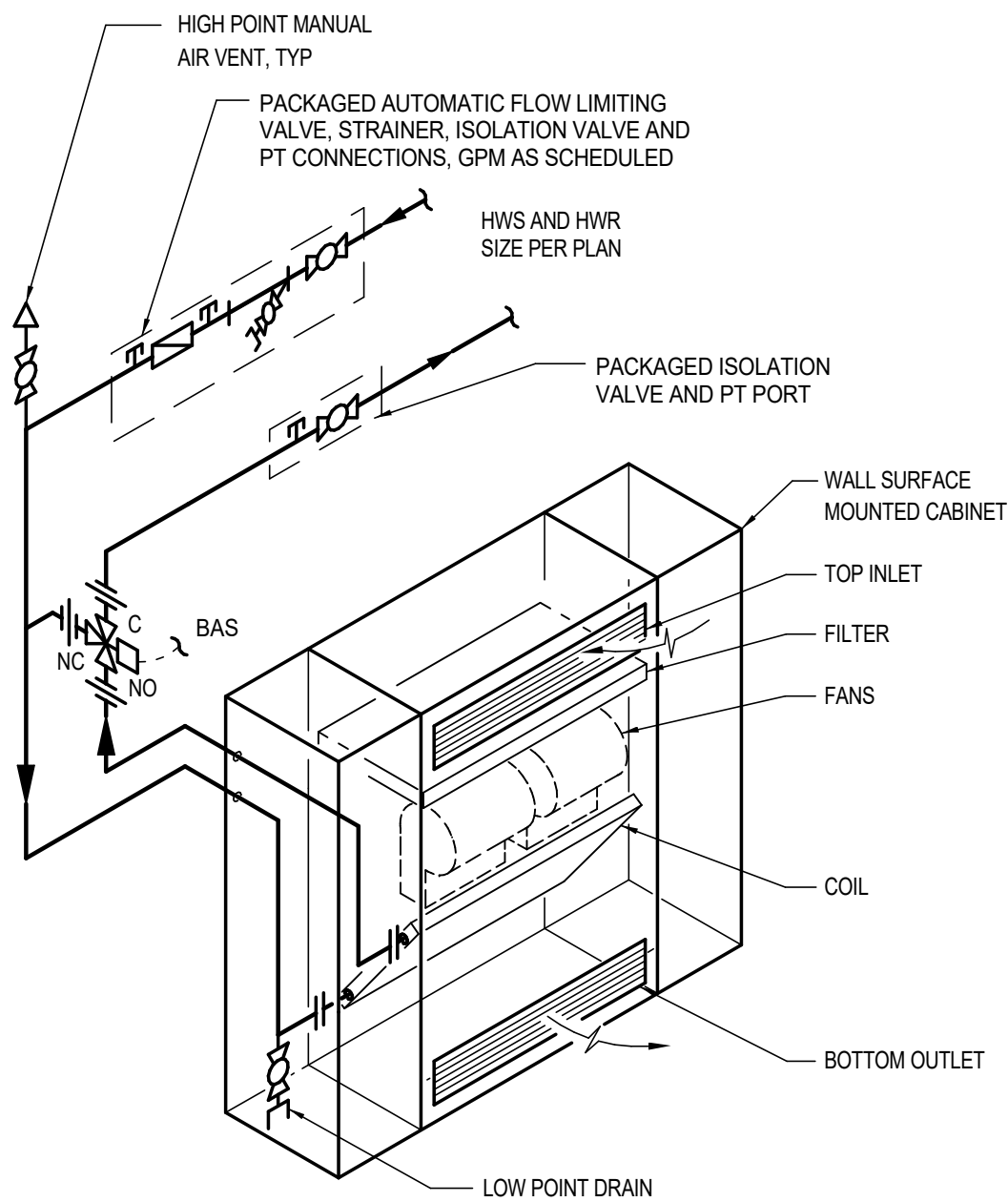
- DISCONTINUE INSULATION THROUGH PENETRATION.
- SEAL FLOOR PENETRATION WATER TIGHT.
- INSTALL PENETRATIONS THRU FIRE RATED FLOORS IN ACCORDANCE WITH APPROVED UL ASSEMBLY LISTING.



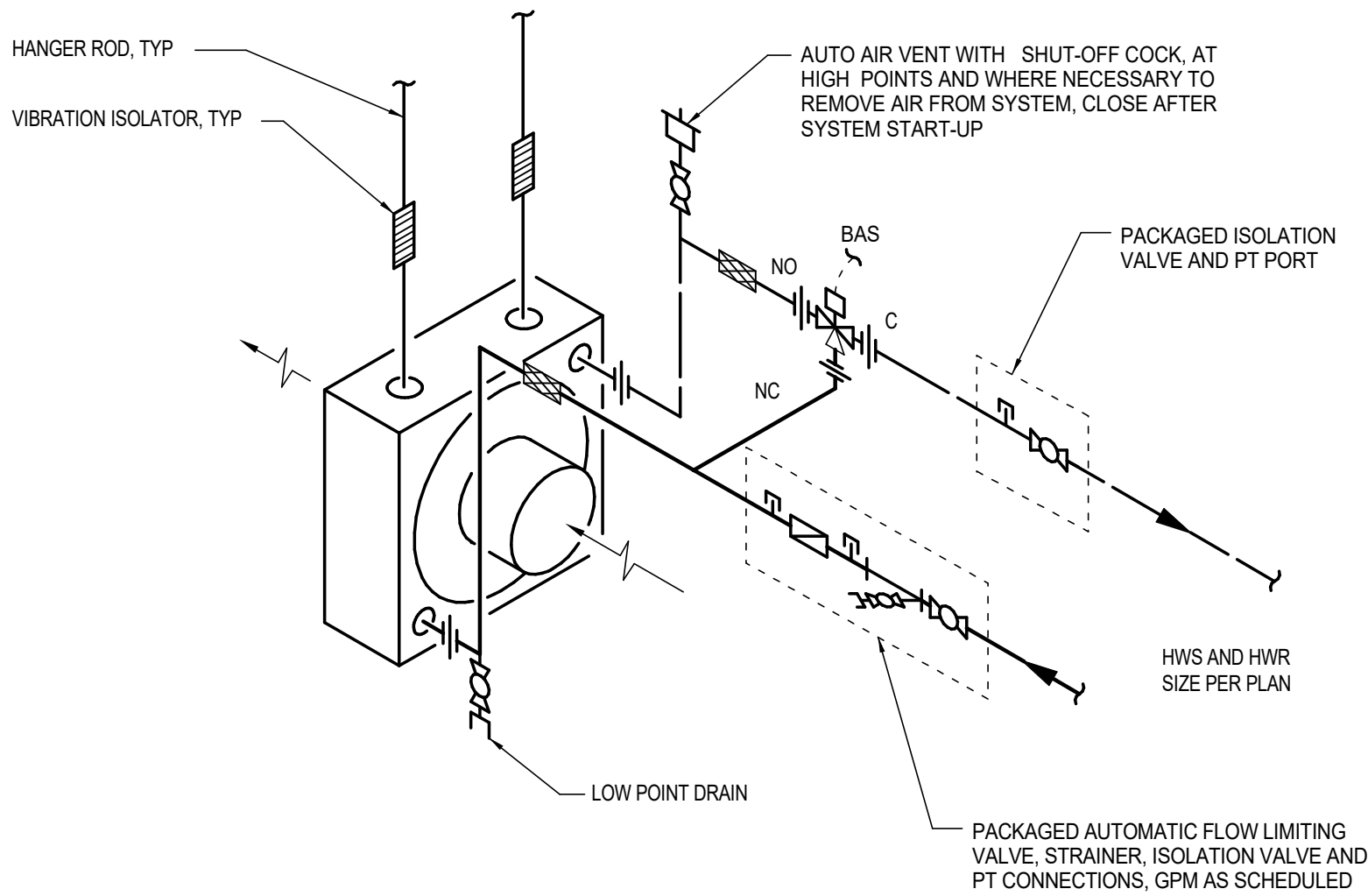
1 DETAIL - PIPE/DUCT WALL PENETRATION
M7.03 SCALE: NONE

2 DETAIL - PIPE/DUCT FLOOR PENETRATION
M7.03 SCALE: NONE

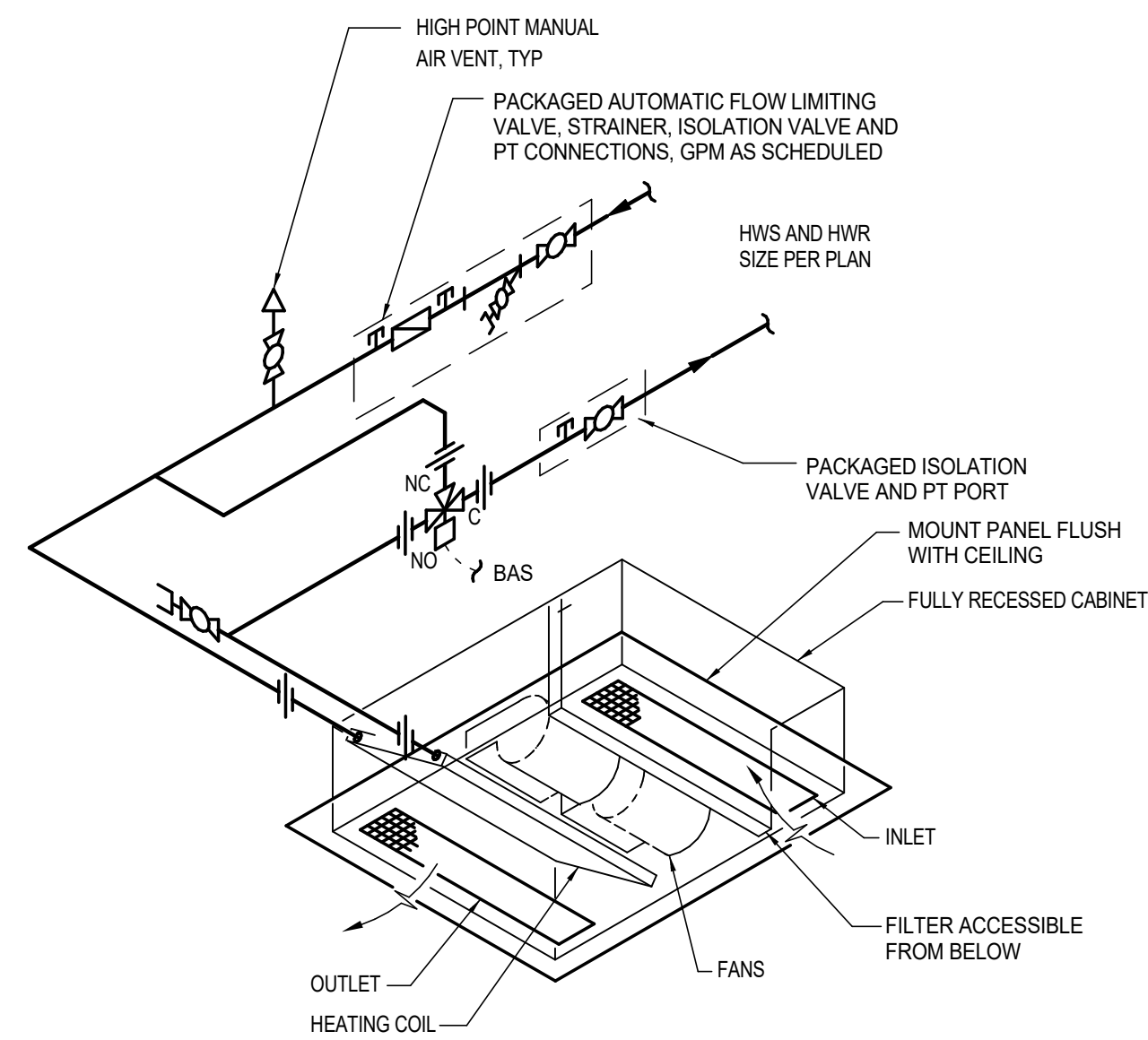
3 DETAIL - RADIANT FLOOR ON SLAB TUBING EMBEDMENT
M7.03 SCALE: NONE



4 DETAIL - WALL SURFACE MOUNTED CUH
M7.03 SCALE: NONE



5 DETAIL - HORIZONTAL UNIT HEATER
M7.03 SCALE: NONE



6 DETAIL - RECESSED CEILING MOUNTED CUH
M7.03 SCALE: NONE

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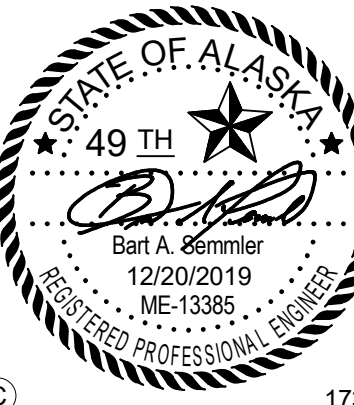
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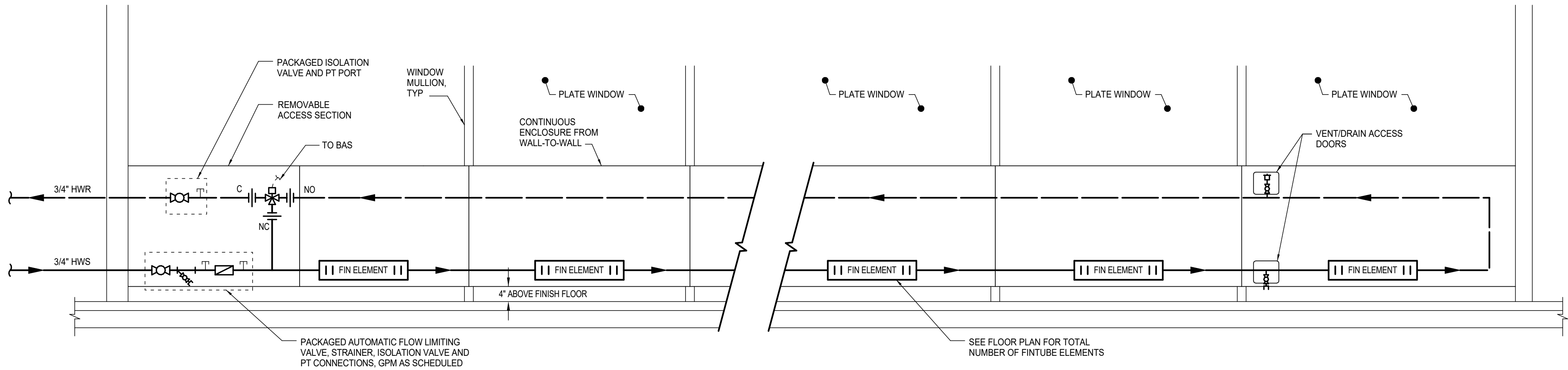
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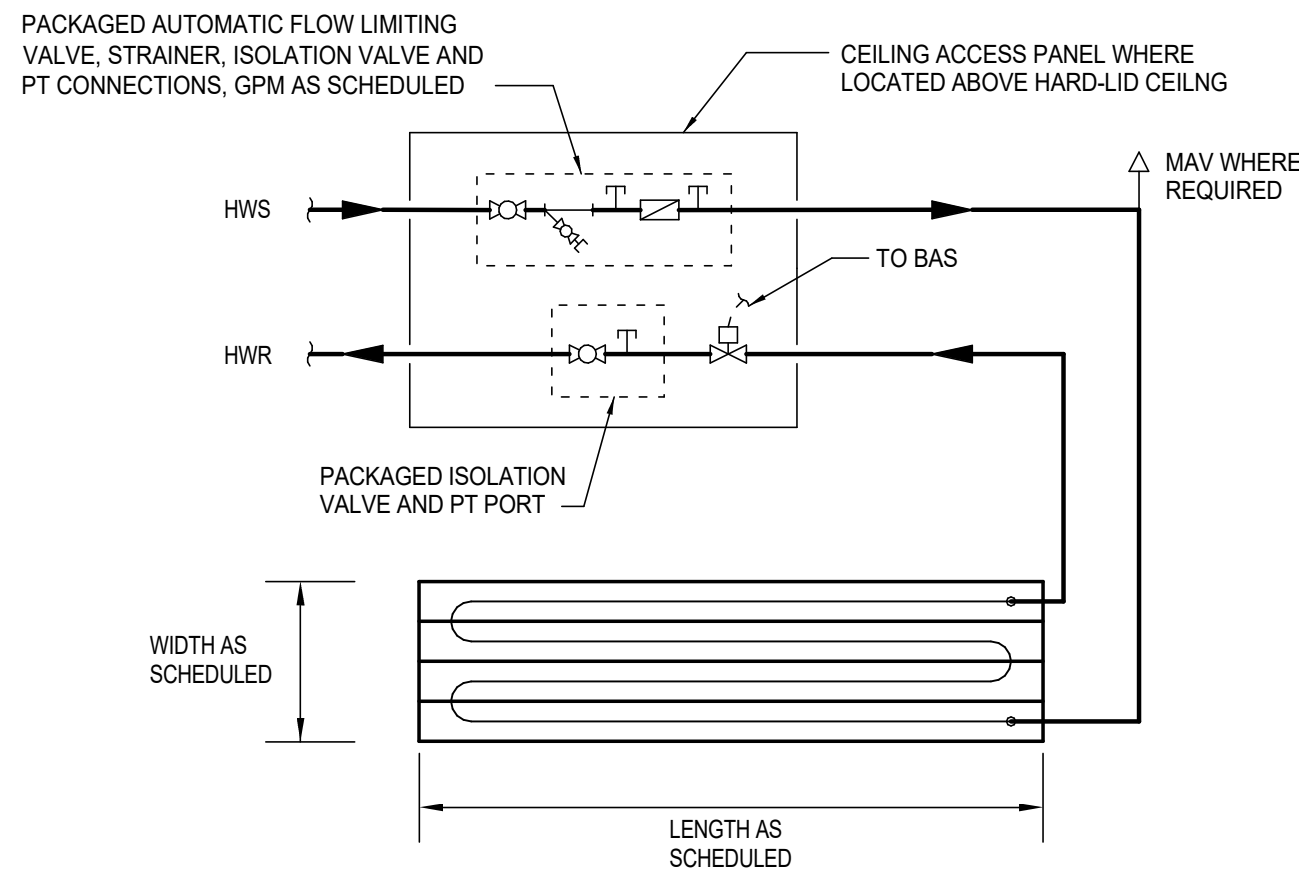
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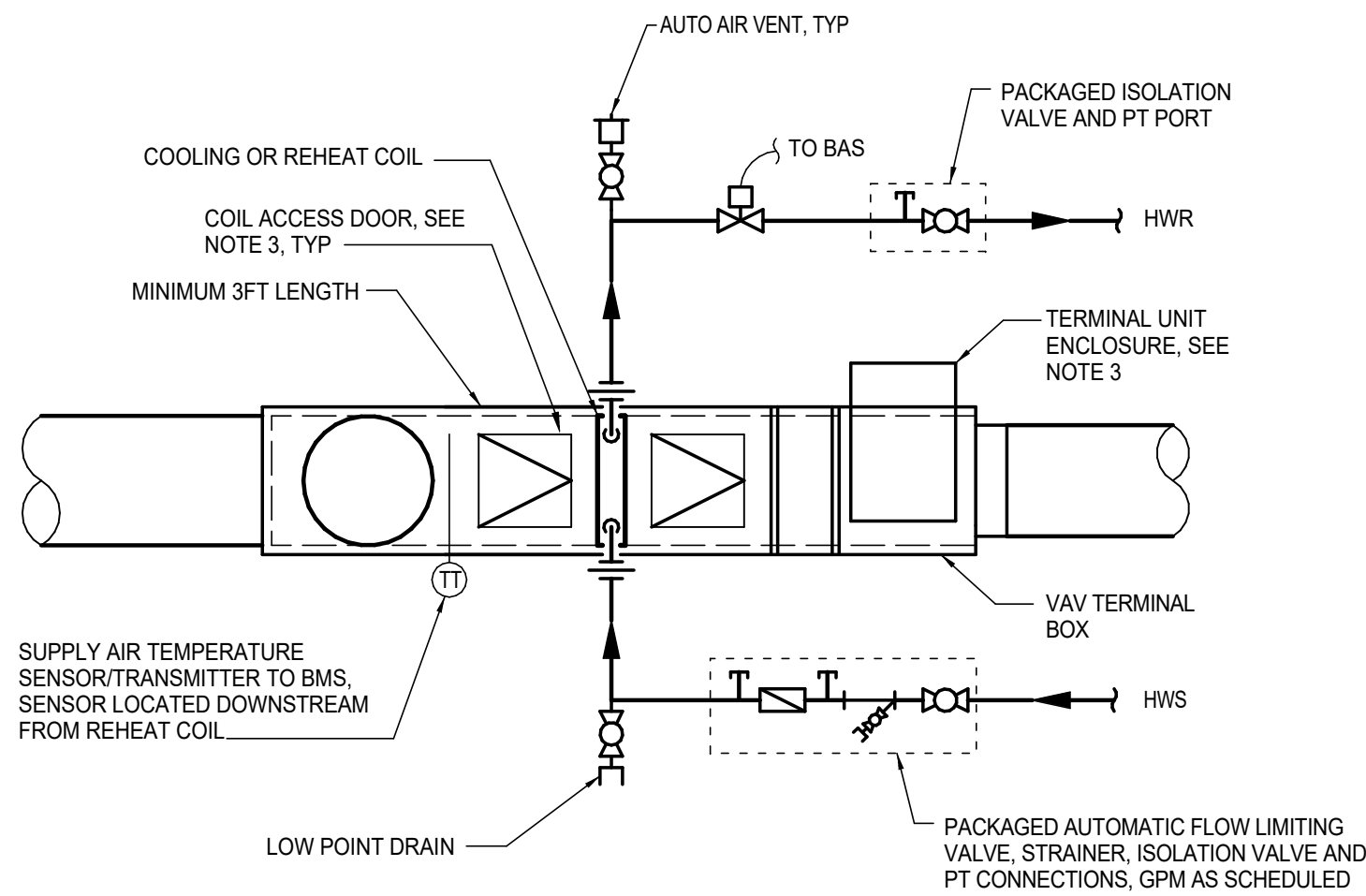


1 DETAIL - SINGLE TIER FINTUBE
M7.04 SCALE: NONE



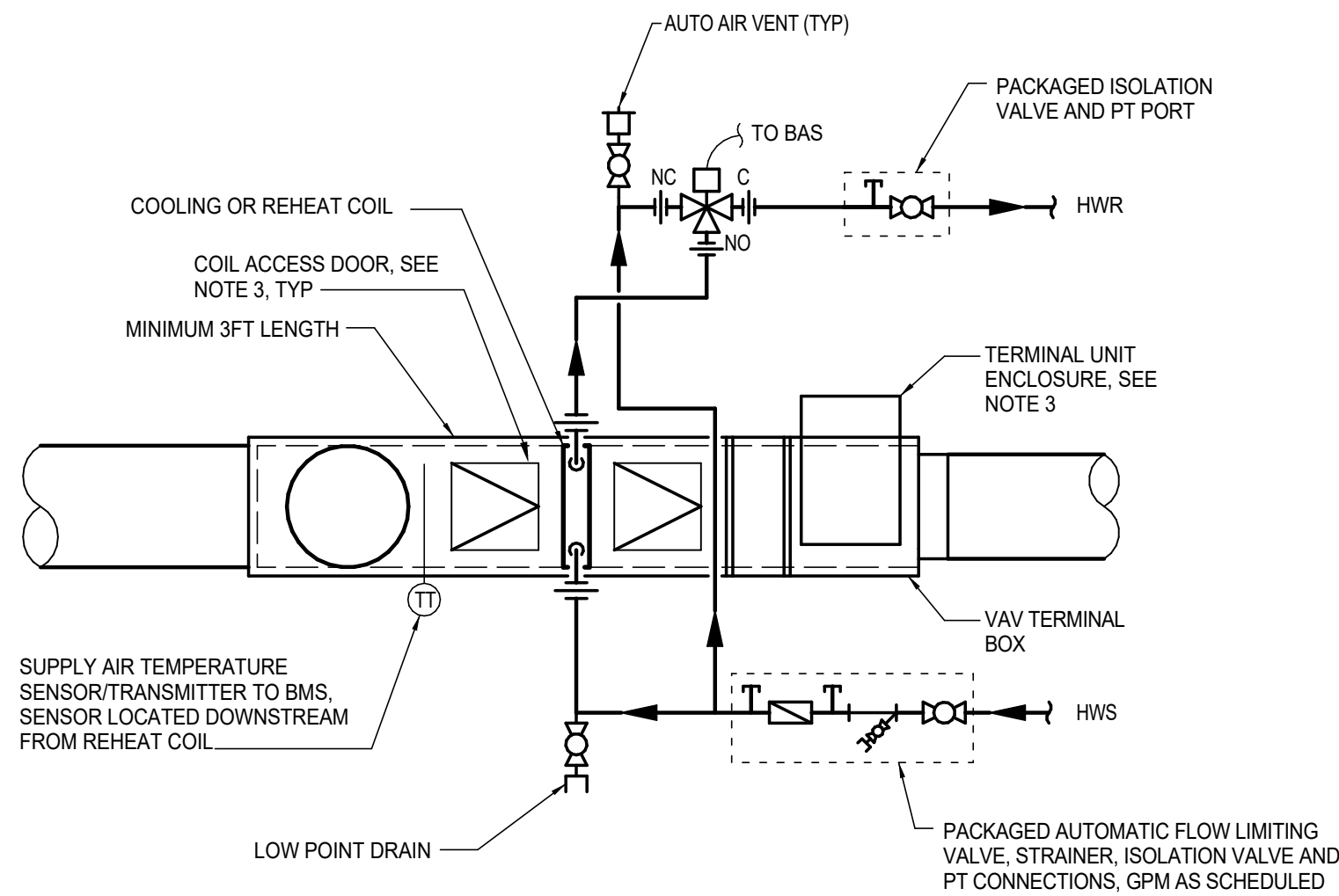
- DETAIL NOTES**
1. PROVIDE 1" THICK FOIL BACKED FIBERGLASS INSULATION ABOVE HEATING ELEMENTS; FOIL SIDE UP.
 2. PIPING SIZE PER PLAN.
 3. FLOW RATE PER PLANS.

2 DETAIL - RADIANT CEILING PANEL PIPING
M7.04 SCALE: NONE



- DETAIL NOTES**
1. SUPPLY AND RETURN HYDRONIC PIPING SHOWN OFFSET FOR CLARITY, SIZE PER PLANS.
 2. COIL FLOW RATE PER SCHEDULE.
 3. MAINTAIN A MINIMUM OF 18 INCHES CLEARANCE IN FRONT OF COIL ACCESS DOORS AND TERMINAL UNIT CONTROL ENCLOSURE FOR MAINTENANCE ACCESS.

3 DIAGRAM - VAV BOX WITH REHEAT COIL PIPING (2-WAY)
M7.04 SCALE: NONE



- DETAIL NOTES**
1. SUPPLY AND RETURN HYDRONIC PIPING SHOWN OFFSET FOR CLARITY, SIZE PER PLANS.
 2. COIL FLOW RATE PER SCHEDULE.
 3. MAINTAIN A MINIMUM OF 18 INCHES CLEARANCE IN FRONT OF COIL ACCESS DOORS AND TERMINAL UNIT CONTROL ENCLOSURE FOR MAINTENANCE ACCESS.

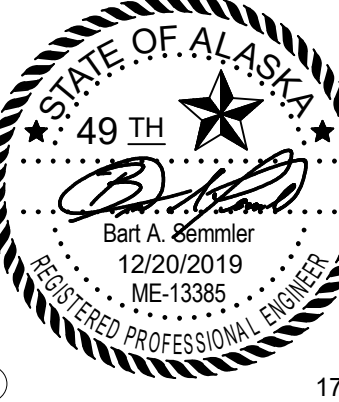
4 DIAGRAM - VAV BOX WITH REHEAT COIL PIPING (3-WAY)
M7.04 SCALE: NONE

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DETAILS NOTES	
1.	THIS DETAIL SHOWS PERMISSIBLE LOCATION OF PIPES OR EXCAVATIONS.
2.	FOR PIPES GREATER THAN 3'-0" BELOW FOOTING, BACKFILL TRENCH WITH STRUCTURAL BACKFILL. SEE CIVIL SPECIFICATIONS.
3	NO PIPE THRU WALL PERMITTED THIS LOCATION



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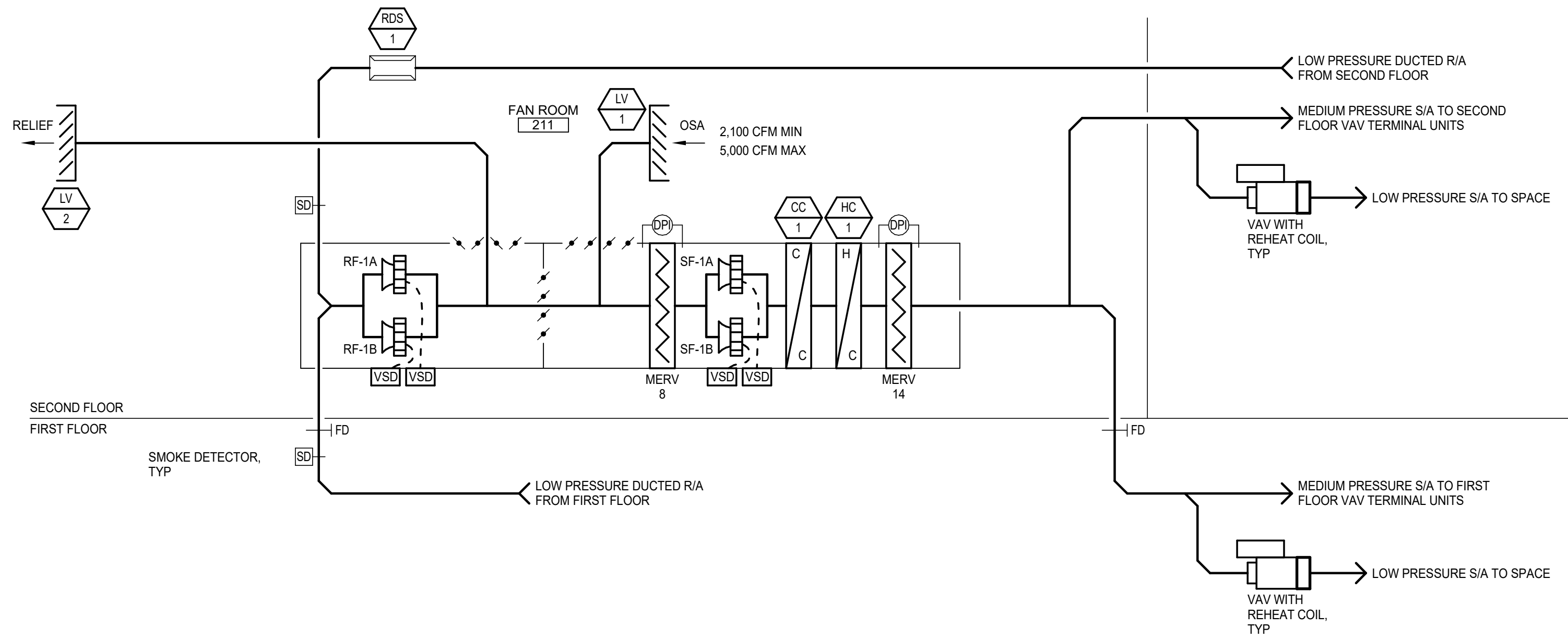
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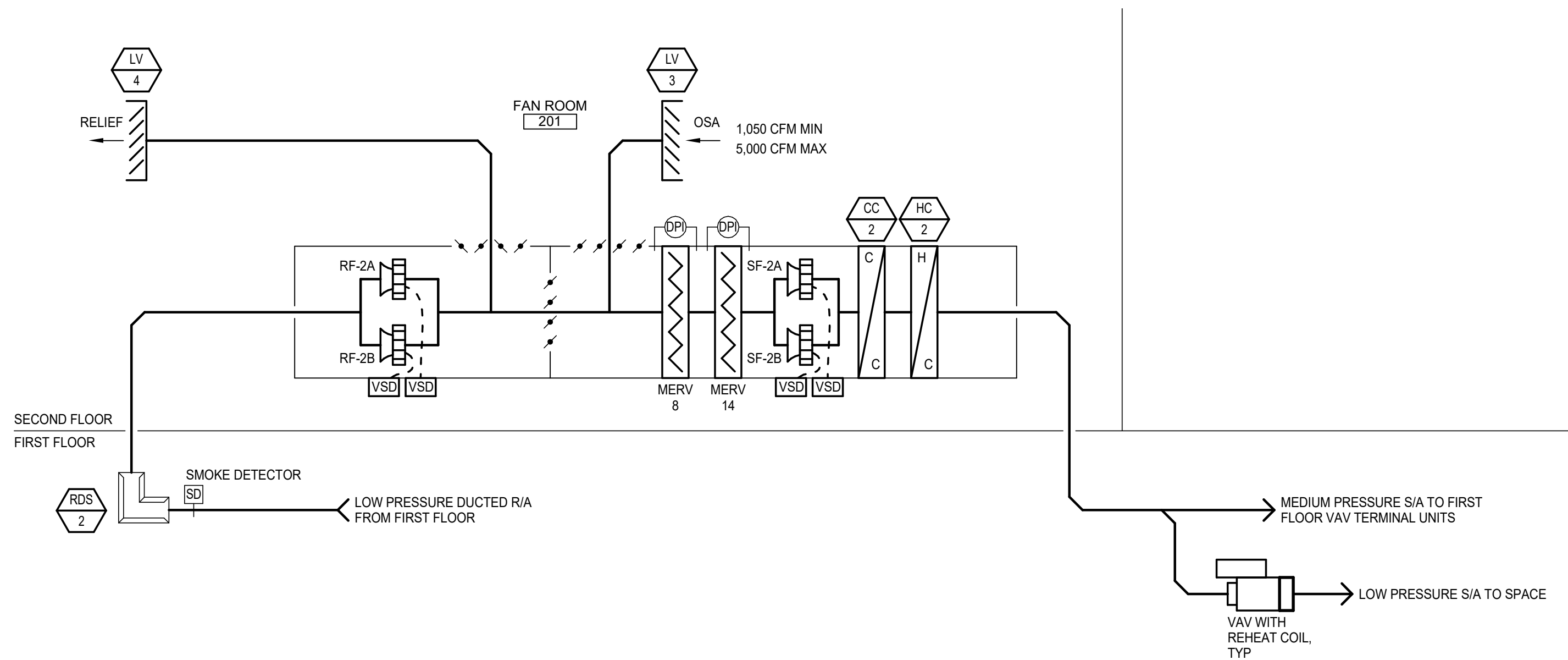
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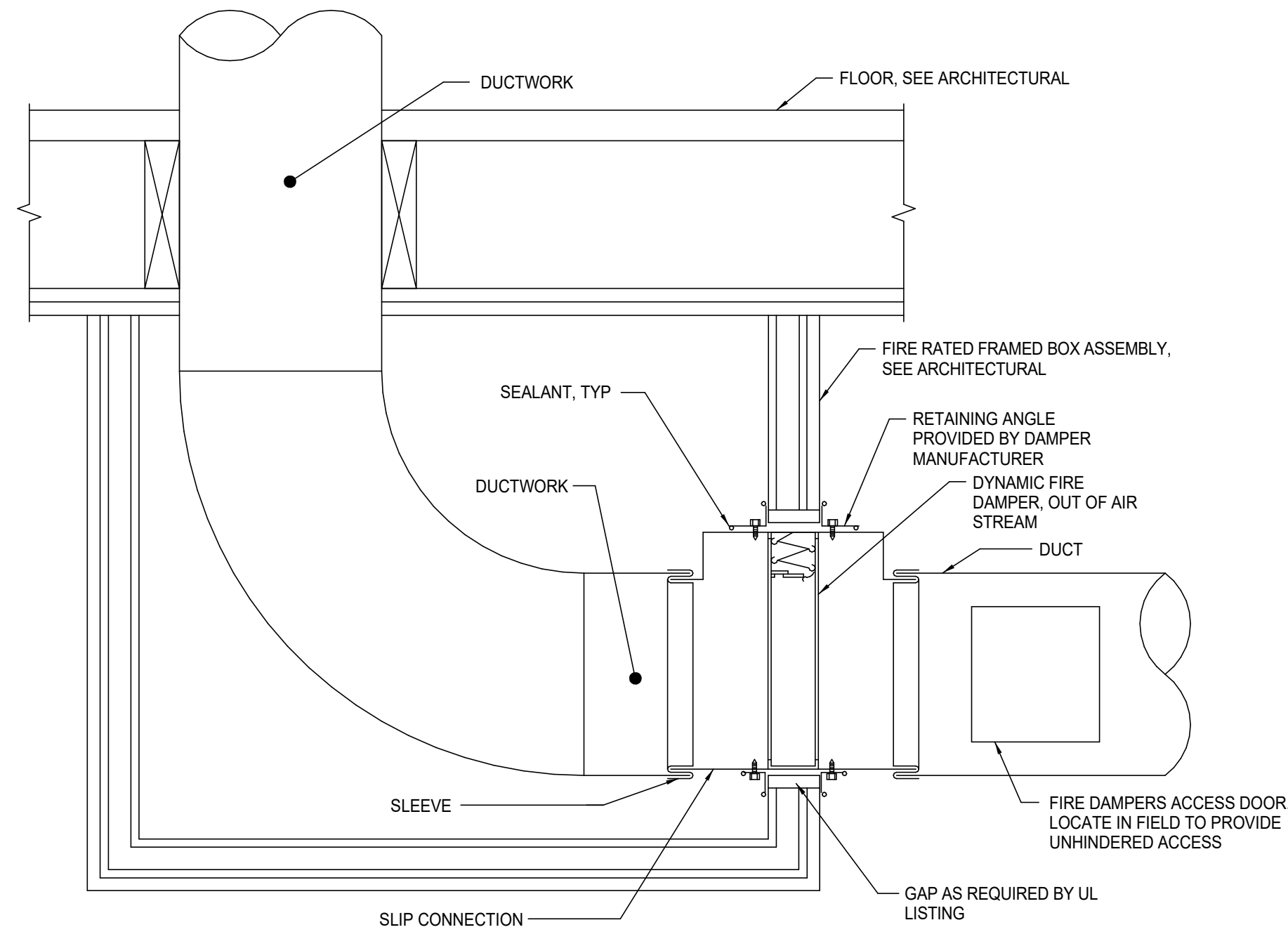
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1 VENTILATION DIAGRAM (AHU-1)
M8.01 SCALE: NONE



2 VENTILATION DIAGRAM (AHU-2)
M8.01 SCALE: NONE



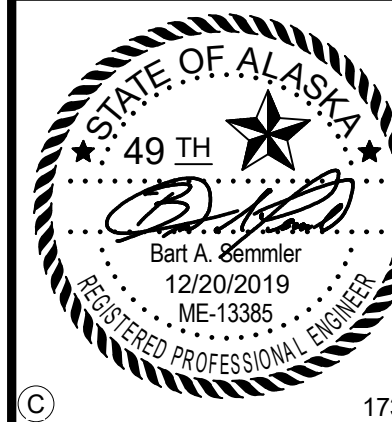
- NOTES
1. PROVIDE FIRE DAMPER INSTALLATION IN ACCORDANCE WITH MANUFACTURER'S UL LISTING.
 2. SEAL DUCT CONNECTIONS TO DAMPER WITH DUCT SEALANT.

3 DETAIL - FIRE DAMPER
M8.01 SCALE: NONE

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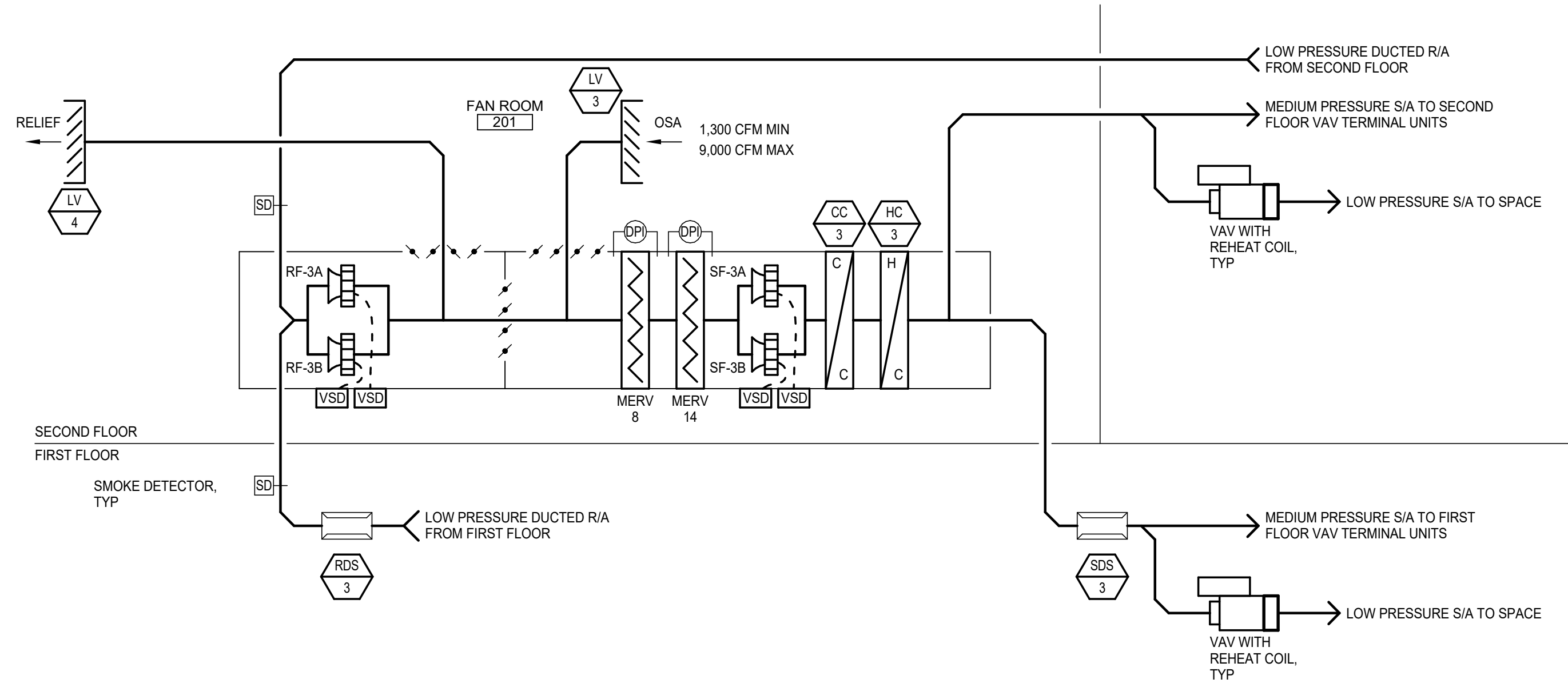
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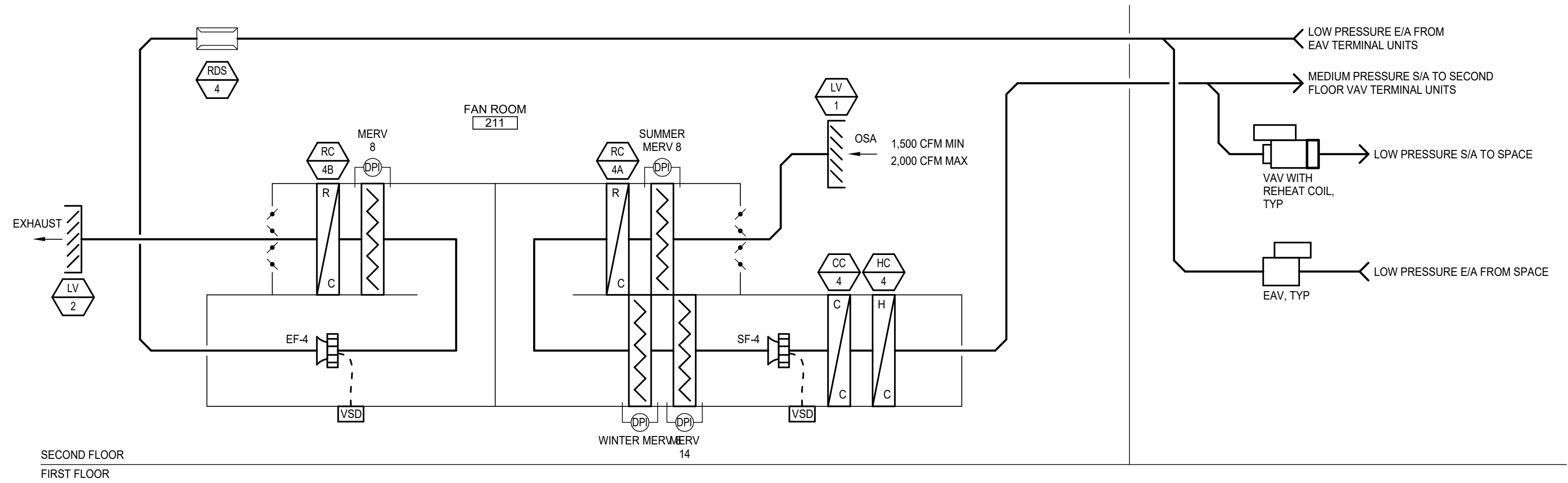
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1 VENTILATION DIAGRAM (AHU-3)
M8.02 SCALE: NONE



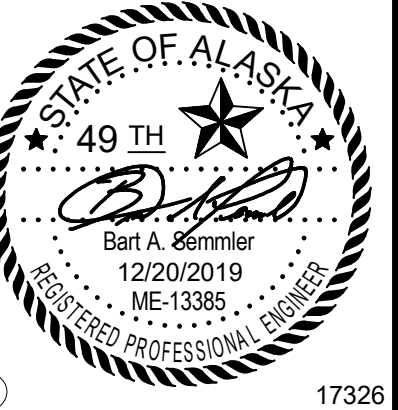
2 VENTILATION DIAGRAM (AHU-4)
M8.02 SCALE: NONE

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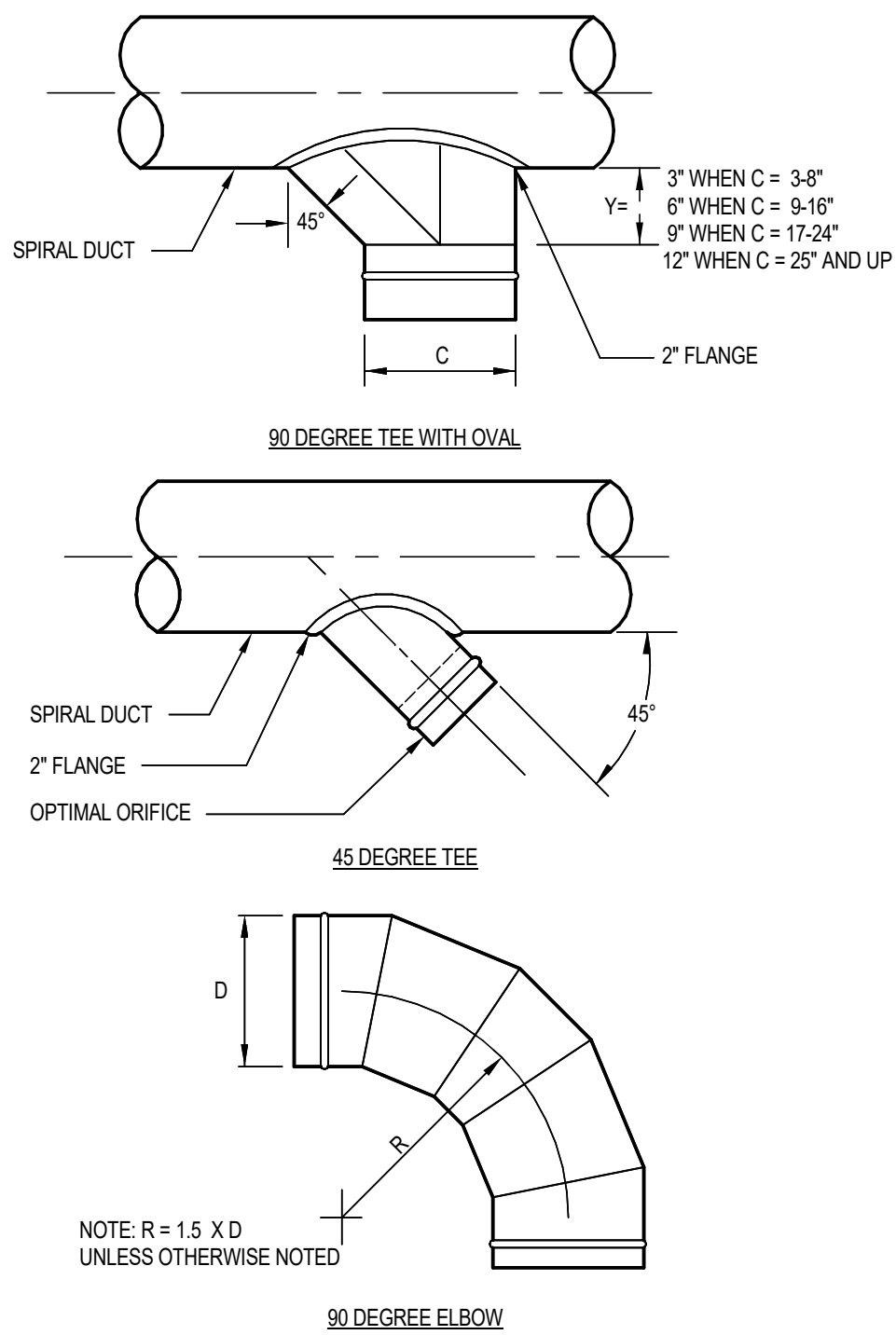
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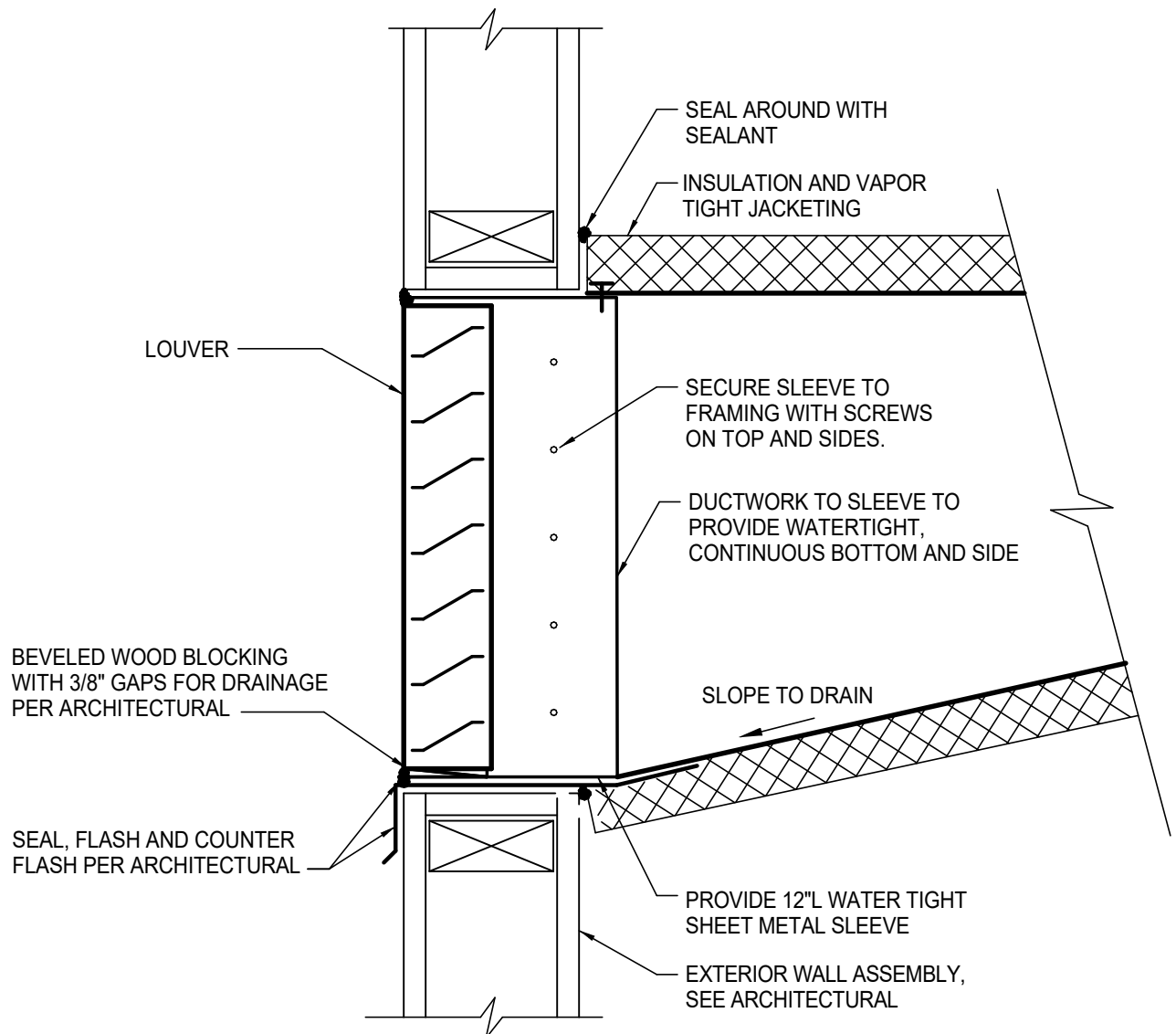
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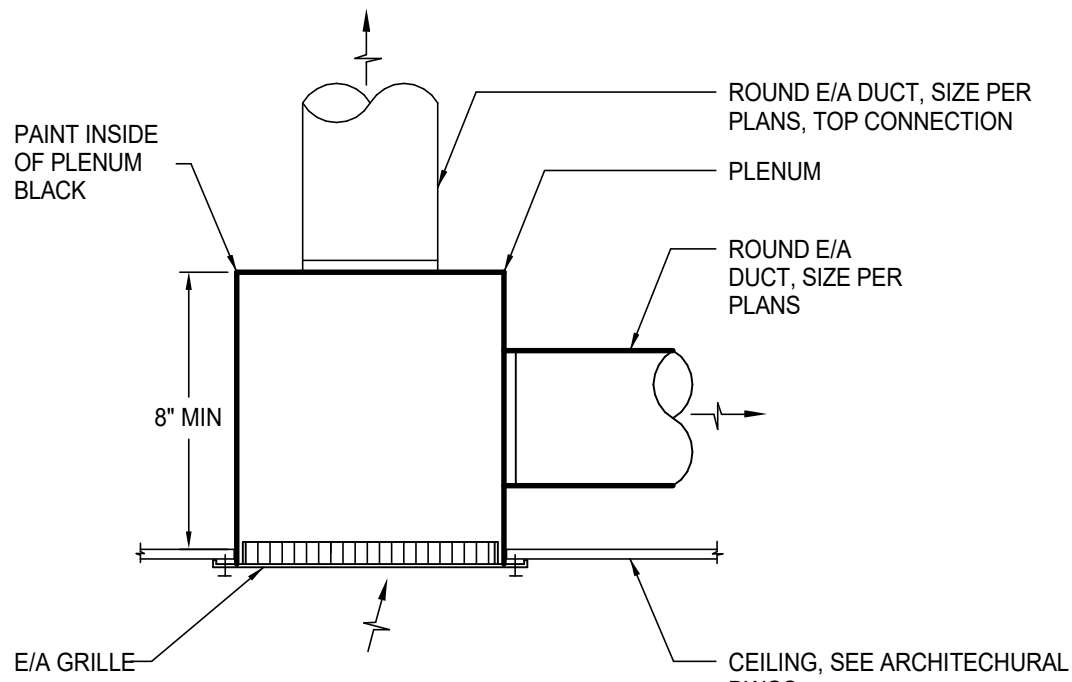
1 DETAIL - DUCT FITTINGS
M8.03 SCALE: NONE



- NOTES
- 02/N20 (136A) LOUVERS DO NOT HAVE DUCTWORK.

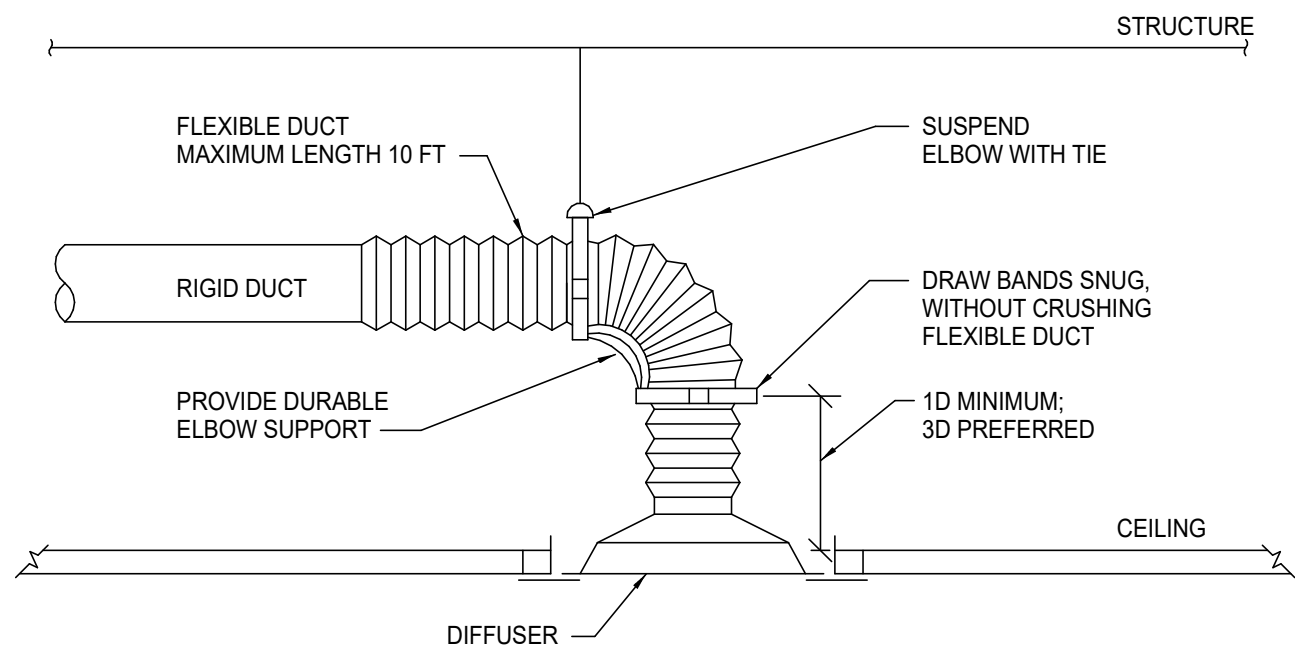
4 DETAIL - LOUVER
M8.03 SCALE: NONE

2



- NOTES
- COORDINATE GRILLE BORDER TYPE WITH CEILING TYPE, SEE ARCHITECTURAL REFLECTED CEILING PLANS.

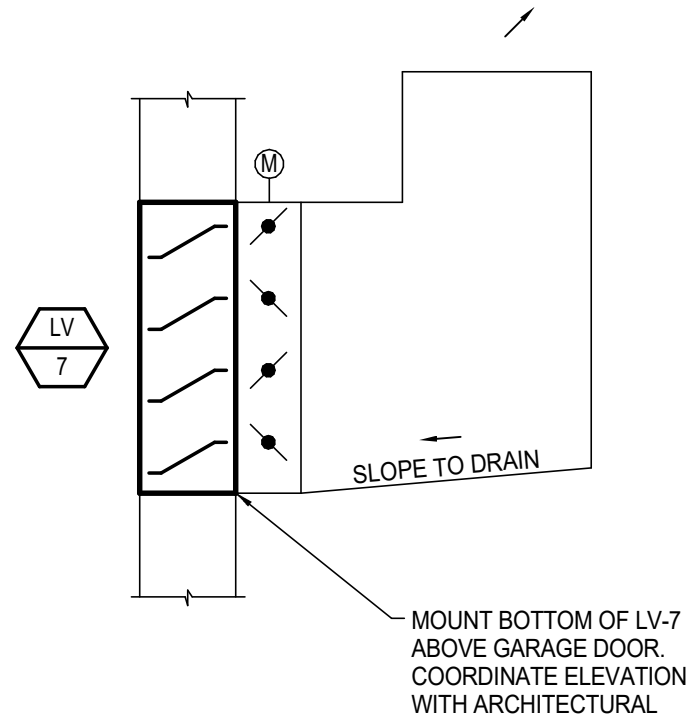
2 DETAIL - EXHAUST AIR GRILLE
M8.03 SCALE: NONE



- DETAIL NOTES:
- WHEN LENGTH OF STRAIGHT DUCT UPSTREAM OF DIFFUSER IS LESS THAN 3D, PROVIDE AN EQUALIZING GRID.

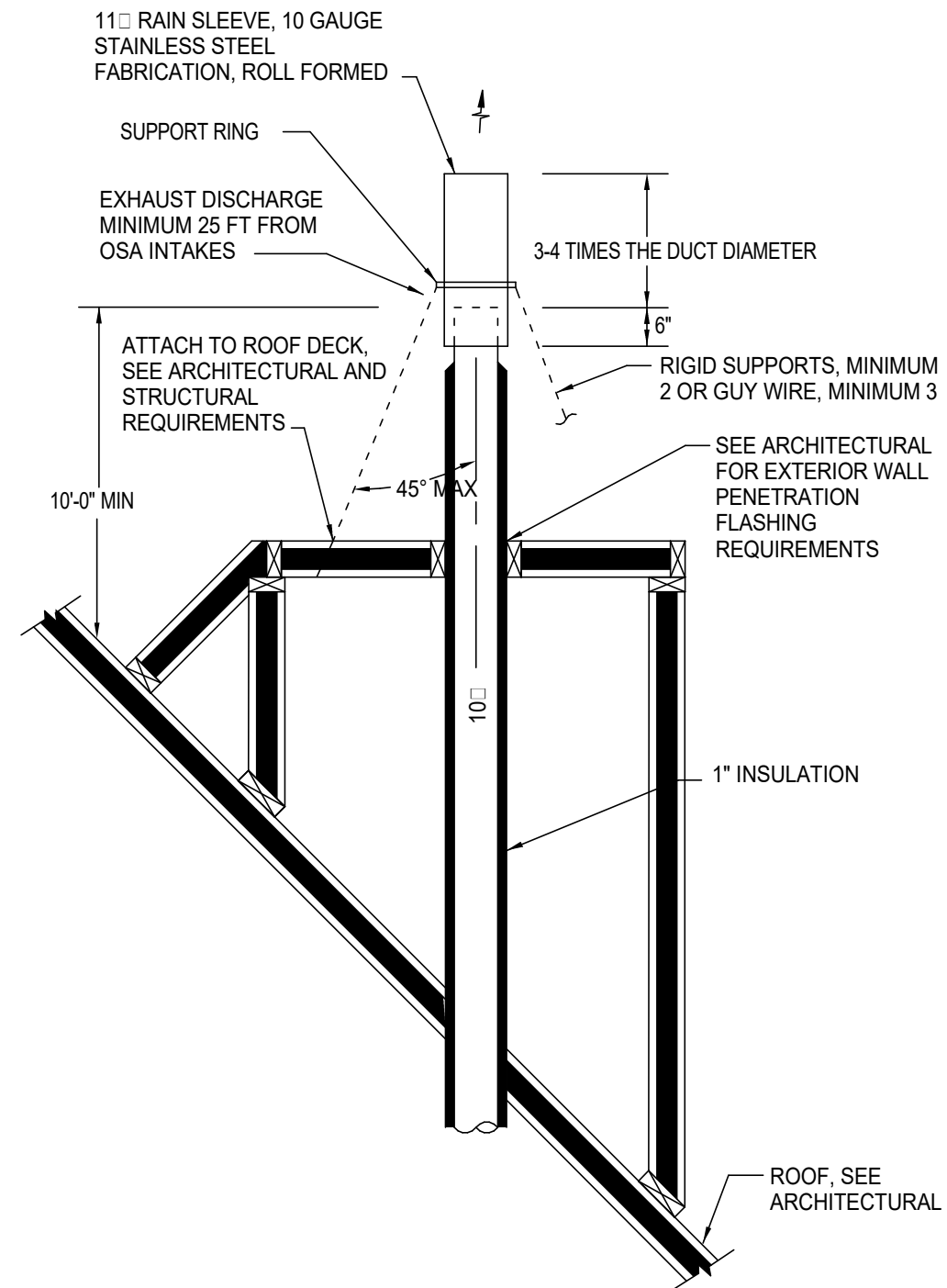
5 DETAIL - FLEXIBLE DUCT CONNECTION
M8.03 SCALE: NONE

3



- NOTES
- INTERLOCK MOTOR OPERARED DAMPER WITH EXHAUST FAN OPERATION (FAN OFF - SHUT, FAN ON - OPEN)

3 DETAIL - GARAGE EF & MAKE-UP AIR LOUVER
M8.03 SCALE: NONE



6 DETAIL - EF VERTICAL EXTERIOR TERMINATION
M8.03 SCALE: NONE

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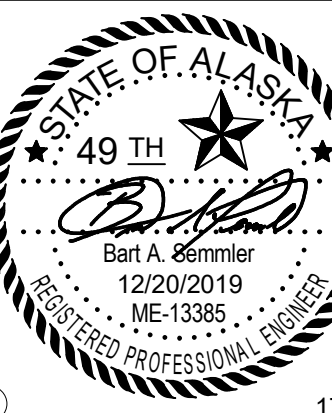
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