WESTMORELAND COUNTY COMMUNITY COLLEGE

151 Pavilion Lane
Youngwood, PA 15697

WESTMORELAND COUNTY COMMUNITY COLLEGE BUSINESS AND INDUSTRY CENTER - AHU 1, AHU-2, CU-1 & CU-2 REPLACEMENT PROJECT

REMINGTON & VERNICK ENGINEERS
105 BRAUNLICH DRIVE, SUITE 100
PITTSBURGH, PENNSYLVANIA 15237
(412) 263-2200

RVE PROJECT NO. P186X002
FEBRUARY 14TH, 2025

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COVER SHEET

WESTMORELAND COUNTY COMMUNITY COLLEGE
BUSINESS & INDUSTRY CENTER
151 PAVILION LN. YOUNGWOOD, PA 15697
MUNICIPALITY WESTMORELAND PENNSYLVANIA

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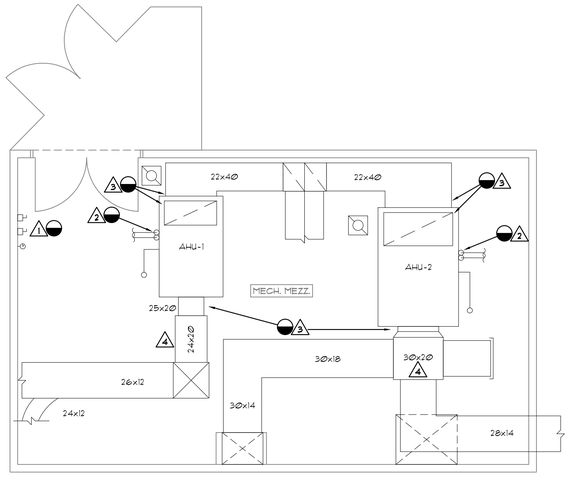
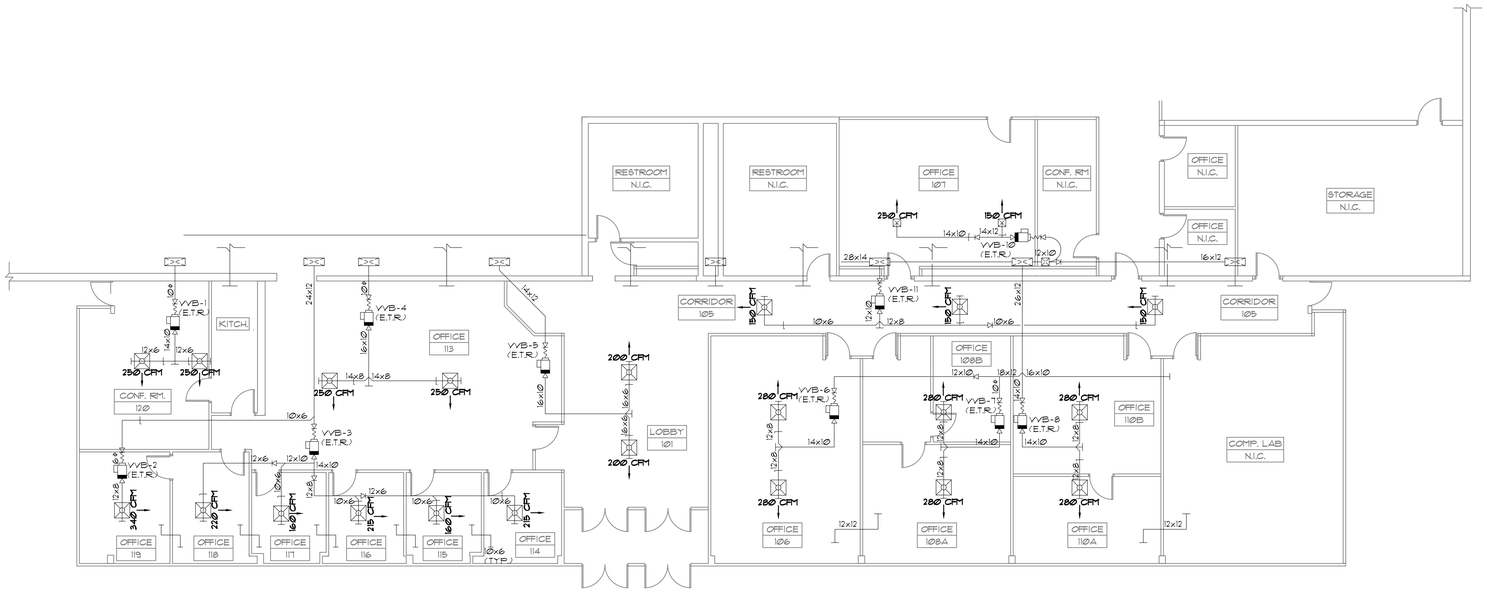
DATE: 02/14/2025
JOB No.: P186X002
SHEET No.: C-001



AIR HANDLING UNIT DEMOLITION PLAN (1 / HD-100)
1/4" = 1' 0"

HVAC DEMOLITION PLAN - NOTES:

1. STARTER / DISCONNECT(S) TO REMAIN. REMOVE CONDUIT AND WIRE FROM AHU'S TO STARTER / DISCONNECTS.
2. DISCONNECT AND REMOVE ALL REFRIGERANT PIPING, CONDENSATE PIPING AND HOT WATER PIPING TO MAIN. DISCONNECT AND REMOVE CU-1 AND CU-2.
3. DISCONNECT AND REMOVE DUCTWORK AS REQUIRED TO REMOVE AIR HANDLING UNITS.
4. DUCT DETECTOR EXISTING TO REMAIN.



1ST FLOOR HVAC DEMOLITION PLAN (2 / HD-100)
1/8" = 1' 0"

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MECHANICAL / ELECTRICAL DEMOLITION PLAN

WESTMORELAND COUNTY COMMUNITY COLLEGE
BUSINESS & INDUSTRY CENTER
151 PAVILION LN. YOUNGWOOD, PA 15697
MUNICIPALITY: WESTMORELAND — PENNSYLVANIA

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SHEET No.: MED-100

AIR HANDLING UNIT SCHEDULE

UNIT NO.	MANUFACTURER	MODEL	FAN DATA								HOT WATER COIL DATA						DX COOLING COIL DATA						WEIGHT	REMARKS
			TOTAL CFM	MIN O.A. CFM	EXT SP ("WC)	HP	RPM	ELECT. V / PH / Hz	MCA	MOCP	GPM	EAT (°F)	LAT (°F)	EWT (°F)	LWT (°F)	MBH	EAT (°F)		LAT (°F)		MBH			
																	DB	WB	DB	WB	SENS	TOT		
AHU - 1	AAON	H3-CRB-8-0-441D-11L	2370	400	1.0	2.0	1800	208 /3/ 60	6	15	5.0	63	90.2	180	150.0	71.0	75.9	64.5	55.1	53.4	53.0	72.7	850	SEE BELOW
AHU - 2	AAON	H3-CRB-8-0-441D-11L	1985	300	1.0	1.0	1800	208 /3/ 60	3	15	5.0	63	90.4	180	153.7	64.1	75.5	64.4	55.1	54.1	43.5	58.2	850	SEE BELOW

REMARKS : WITH ECM FAN, RESTRAINED SPRING ISOLATORS, THERMAL EXPANSION VALVES, 2" 30% PLEATED FILTERS, HIGH CONDENSATE LEVEL SWITCH, ENTHALPY CONTROLLED ECONOMIZER

CONDENSING UNIT SCHEDULE

MARK	MFR.	MODEL NO.	MOTOR DATA	MCA	MOCP	DX COOLING					REMARKS
			V/ PH / Hz			NOM TONS	CAP MBH	CON. EAT	REF	SEER	
CU-1	AAON	CFA-007-A-A-8-LA00H	208 / 3 / 60	32	50	6.0	72.5	95	R-454B	13.2	SEE BELOW
CU-2	AAON	CFA-007-A-A-8-LA00H	208 / 3 / 60	25	40	5.0	59.0	95	R-454B	13.8	SEE BELOW

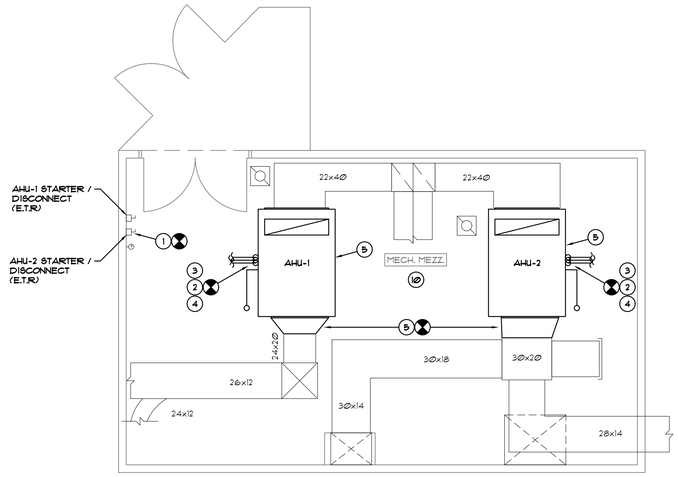
REMARKS: PROVIDE WEATHERPROOF DISCONNECT SWITCH, VARIABLE CAPACITY SCROLL COMPRESSOR

VARIABLE AIR VOLUME BOX SCHEDULE (E.T.R. - REBALANCE AS LISTED)

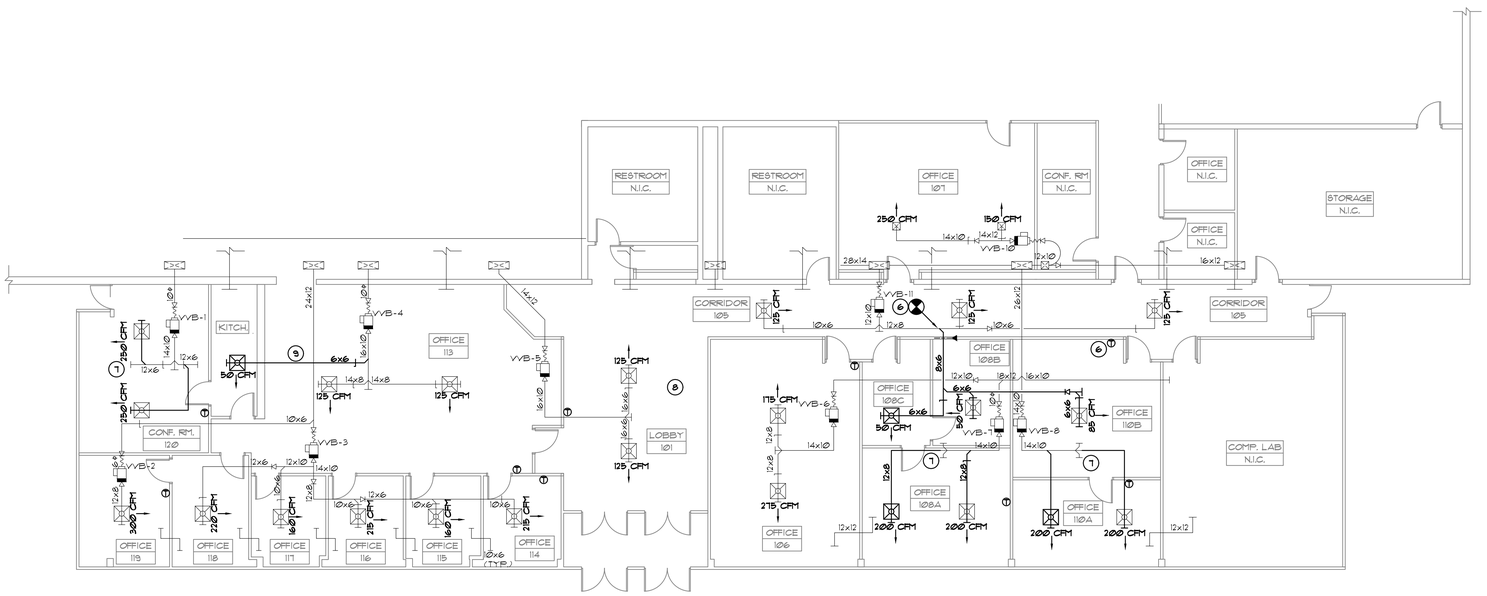
MARK	MFR.	MODEL NO.	INLET SIZE	MIN. CFM	MAX. CFM	OUTLET SIZE	HOT WATER COIL DATA							REMARKS
							HT'G CFM	GPM	EAT (°F)	LAT (°F)	EWT (°F)	LWT (°F)	MBH	
VVB-1	TITUS	PESV	8"ϕ	150	500	12"x9"	400	1.25	63	91	180	160	12.5	ETR
VVB-2	TITUS	PESV	5"ϕ	90	300	12"x6"	240	0.75	63	91	180	160	7.5	ETR
VVB-3	TITUS	PESV	10"ϕ	290	970	14"x12"	775	2.5	63	92	180	160	25.0	ETR
VVB-4	TITUS	PESV	9"ϕ	90	300	14"x12"	240	0.75	63	91	180	160	7.5	ETR
VVB-5	TITUS	PESV	10"ϕ	75	250	14"x12"	200	0.75	63	97	180	160	7.5	ETR
VVB-6	TITUS	PESV	9"ϕ	135	450	14"x12"	360	1.2	63	93	180	160	12.0	ETR
VVB-7	TITUS	PESV	9"ϕ	125	420	14"x12"	340	1.2	63	95	180	160	12.0	ETR
VVB-8	TITUS	PESV	9"ϕ	115	380	14"x12"	310	1.2	63	98	180	160	12.0	ETR
VVB-9	---	---	---	---	---	---	---	---	---	---	---	---	---	NOT USED
VVB-10	TITUS	PESV	9"ϕ	45	150	14"x12"	120	0.5	63	101	180	160	5.0	ETR
VVB-11	TITUS	PESV	8"ϕ	150	475	12"x9"	335	1.0	63	90	180	160	10.0	ETR
VVB-12	---	---	---	---	---	---	---	---	---	---	---	---	---	NOT USED
VVB-13	---	---	---	---	---	---	---	---	---	---	---	---	---	NOT USED

GRILL, DIFFUSER, AND REGISTER SCHEDULE

MARK	MANUFACTURER	MODEL	OBD	SIZE (WxH)	NC	COLOR	STYLE
S-1	TITUS	TDC	NO	24x24	-	WHITE	CEILING MOUNT



MECHANICAL MEZZ. NEW HVAC PLAN (1 / ME-100)
NEW MATERIALS BOLD LINED
¼" = 1' 0"



1ST FLOOR NEW HVAC PLAN (2 / ME-100)
NEW MATERIALS BOLD LINED
¼" = 1' 0"

HVAC NEW WORK PLAN - NOTES:

1. INSTALL NEW CONDUIT AND WIRE FROM AIR HANDLING UNITS TO E.T.R. STARTER / DISCONNECTS. NOTE AHU-1 WILL CONNECT TO STARTER/DIS. PREVIOUSLY SERVING AHU-2 AND AHU-2 WILL CONNECT TO STARTER/DIS. PREVIOUSLY SERVING AHU-1. RELABEL STARTER / DISCONNECTS.
2. PROVIDE NEW REFRIGERANT PIPING FROM NEW AHU'S TO NEW CU'S.
3. PROVIDE NEW HOT WATER SUPPLY AND RETURN FROM E.T.R. MAINS.
4. PROVIDE NEW CONDENSATE DRAINS FROM NEW AHU'S TO EXISTING FLOOR DRAINS.
5. INSTALL NEW AHU'S ON NEW RESTRAINED SPRING ISOLATORS. TIE IN SUPPLY, RETURN, AND OUTSIDE AIR DUCT TO E.T.R. DUCT SYSTEMS. REMOVE EXISTING INSULATION TO CREATE A CLEAN CONNECTION TO NEW DUCT INSULATION.
6. INSTALL NEW SUPPLY DUCT BRANCH FROM VAV BOX-11 TO SERVE OFFICE 108B, 108C, AND 110B. RELOCATE THERMOSTAT LOCATION TO OFFICE 110B AS SHOWN. PROVIDE FIRE DAMPER AT WALL PENETRATION.
7. RELOCATE SUPPLY AIR DIFFUSERS AS SHOWN. PROVIDE DUCT REVISIONS AS REQUIRED.
8. REBALANCE VAV BOXES PER PLANS AND SCHEDULE.
9. INSTALL NEW SUPPLY DUT BRANCH FROM E.T.R. VAV BOX-4 TO KITCHEN.
10. INSTALL NEW CONDENSING UNITS ON E.T.R. ROOF EQ RAILS, FIELD VERIFY EQUIPMENT RAILS. INSTALL NEW REFRIGERANT PIPING AND NEW PIPE PORTAL COVER. FIELD VERIFY PIPE ROUTING.

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MECHANICAL / ELECTRICAL
NEW WORK PLAN

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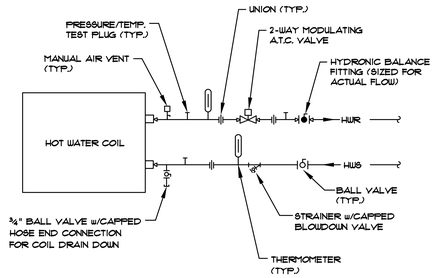
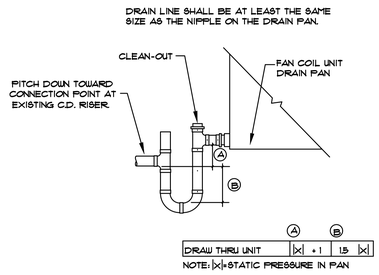
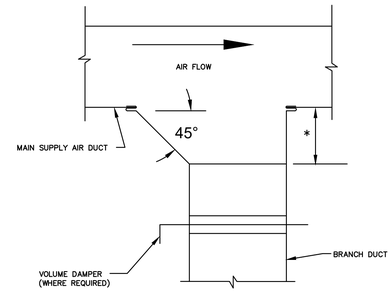


AIR HANDLER UNIT
HOT WATER COIL PIPING DETAIL (1 / ME-200)

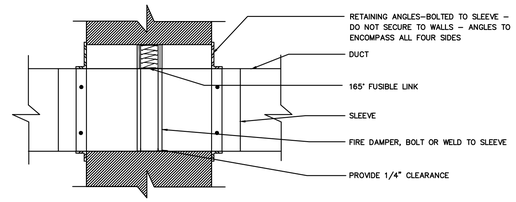


AIR HANDLER UNIT
CONDENSATE DRAIN TRAP PIPING DETAIL (2 / ME-200)



* EQUALS WIDTH OF BRANCH DUCT UP TO 12",12" FOR ALL BRANCH DUCTS LARGER THAN 12"

NEW DUCT CONNECTIONS
BRANCH DUCT DETAIL (3 / ME-200)



FIRE DAMPER DETAIL

NOTES: N.T.S.
1. FIRE DAMPERS SHALL BE CONSTRUCTED AND INSTALLED ACCORDING TO NFPA 90A AND UL LABELED
2. PROVIDE AN ACCESS PANEL FOR EACH FIRE DAMPER SECTION.

NEW DUCT CONNECTIONS
FIRE DAMPER DETAIL (4 / ME-200)

ABBREVIATIONS

ABOVE FIN FLOOR	AFF
ACCESS DOOR	AD
ACCESS PANEL	AP
AMBIENT	AMB
AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS	ASHRAE
APPROXIMATE	APPROX
ARCHITECT	ARCH
ARRANGEMENT	ARR
ATMOSPHERE	ATM
AUTOMATIC	AUTO
AUTOMATIC TEMPERATURE CONTROL	ATC
AVERAGE	AVG
BACK DRAFT DAMPER	BDD
BELOW	BEL
BETWEEN	BTWN
BOTTOM (PREFIX)	BOT
BOTTOM OF DUCT	BOD
BRITISH THERMAL UNITS	BTU
BRITISH THERMAL UNITS PER HOUR	BTUH
BTU PER HOUR (THOUSAND)	MBH
BTU PER HOUR (HUNDRED THOUSAND)	MMBH
CAPACITY	CAP
CEILING	CLG
CENTER LINE	℄
CENTER	CTR
CUBIC FEET PER MINUTE	CFM
DIFFUSER (SUPPLY AIR)	D-(*)
DOWN	DN
DRAIN	DR
DRAWING	DWG
EQUAL	EQ
EXHAUST AIR REGISTER	EAR
EXHAUST FAN	EF-(*)-(*)
EXISTING	EXIST
EXTERNAL STATIC PRESSURE	ESP
FACE AREA	FA
FACE VELOCITY	FV
FAHRENHEIT	F
FLEXIBLE	FLEX
FLOOR	FLR
FOOT OR FEET	FT
HORIZONTAL	HORIZ
HOUR (S)	HR
HVAC CONTRACTOR	HC
INCHES	IN OR (")
INCHES WATER GAUGE	IN. W.G.
LEAVING WET BULB	LWB
LEAVING	LVG
LEAVING DRY BULB	LDB
LEAVING AIR TEMPERATURE	LAT
MAXIMUM	MAX
MECHANICAL	MECH
MINIMUM	MIN
MOTOR	MTR
MOTOR OPERATED DAMPER	MOD
NATIONAL ELECTRICAL CODE	NEC
NATIONAL FIRE PROTECTION ASSOCIATION	NFPA
NORMALLY CLOSED	NC
NORMALLY OPEN	NO
NOT IN CONTRACT	NIC
NOT APPLICABLE	N/A
NOT TO SCALE	NTS
NUMBER	NO.
OUTSIDE AIR	OA
OUTSIDE AIR DAMPER	OAD
PERCENT	%
PLUMBING CONTRACTOR	PC
POUNDS	LBS OR #
POUNDS PER HOUR	#/HR
POUNDS PER SQUARE INCH (ABSOLUTE)	PSIA
POUNDS PER SQUARE INCH (GAUGE)	PSIG
POUNDS PER SQUARE INCH (DIFFERENTIAL)	PSID
PRESSURE DROP	PD
PRESSURE, STATIC	SP
PUMP	P-(*)
QUANTITY	QTY
REGISTER (RETURN OR EXHAUST)	R-(*)
REQUIRED	REQD
RETURN AIR	RA
RETURN AIR TEMPERATURE	RAT
RETURN AIR GRILLE	RAG
REVISION	REV
REVOLUTIONS PER MINUTE	RPM
ROOM	RM
SCHEDULE	SCHED
VOLUME DAMPER	VD
WITH	W/
WITHOUT	W/O

GENERAL NOTES:

1. ALL DUCT SIZES ARE IN INCHES±
2. ALL DUCT SIZES ARE OUTER WALL SHEETMETAL SIZE.
3. SIZE OR NECK DIMENSION ONLY REQUIRED TO CLARIFY ROOM DIFFUSER/REGISTER SCHEDULE IF MORE THAN ONE SIZE IS TO BE INSTALLED.
4. ALL SUPPLY, EXHAUST, AND RETURN DUCTWORK SHALL INCLUDE VOLUME DAMPERS FOR BALANCING IN ALL BRANCHES
5. DRAWINGS ARE DIAGRAMMATIC. DRAWINGS ARE NOT INTENDED TO BE ABSOLUTELY PRECISE, AND DO NOT SPECIFY OR SHOW EVERY OFFSET, FITTING, AND COMPONENT. THE PURPOSE OF THE DRAWINGS IS TO INDICATE A SYSTEM CONCEPT, THE MAIN COMPONENTS OF THE SYSTEMS, AND THE APPROXIMATE GEOMETRICAL RELATIONSHIPS, BASED ON THE SYSTEMS CONCEPT, THE MAIN COMPONENTS AND APPROXIMATE GEOMETRICAL RELATIONSHIPS, THE CONTRACTOR SHALL PROVIDE ALL OTHER COMPONENTS AND MATERIALS NECESSARY TO MAKE THE SYSTEMS FULLY COMPLETE AND OPERATIONAL. THE CONTRACTOR SHALL ROUTE PIPING OR PROVIDE OFFSETS TO AVOID INTERFERENCE WITH STRUCTURAL ELEMENTS, EQUIPMENTS, ELECTRICAL PANELS, AND JANCTION BOXES, ETC. VERIFY LOCATIONS, DIMENSIONS, EXISTING FLOW DIRECTIONS, AVAILABLE POWER CHARACTERISTICS, (VOLTS/PHASE), ETC., BEFORE CONSTRUCTION.
6. WORKMANSHIP: COMPETENT SKILLFUL WORKMEN SHALL DO ALL WORK IN A FINISHED, THOROUGHLY SUBSTANTIAL AND CRAFTSMAN LIKE MANNER. THIS IS INTENDED TO REFER PARTICULARLY TO SMALLER DETAILS NECESSARY BUT USUALLY NOT SPECIFIED OR INDICATED ON THE DRAWINGS. ALL SUB-STANDARD WORK, INSTALLED BY THIS CONTRACTOR, SHALL BE REPLACED BY THIS CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER. IS THIS CONTRACTOR DAMAGES EXISTING WORK, HE SHALL PAY THE COST OF REPLACEMENT OF THE DAMAGED WORK AT NO ADDITIONAL EXPENSE TO THE OWNER. THE ENGINEER SHALL BE THE JUDGE OF WORKMANSHIP AND HIS/HER OPINION SHALL BE FINAL.
7. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS, DIMENSIONS, AND SIZES BEFORE FABRICATING OR ORDERING EQUIPMENT.
8. LABEL ALL EQUIPMENT, PIPES, DUCTS, ETC. IN ACCORDANCE WITH SPECIFICATIONS.

SYMBOL LINE	DESCRIPTION
	SUPPLY AIR FLOW
	OUTSIDE AIR FLOW
	RETURN/RELIEF AIR FLOW
	ROUND SUPPLY DUCT ELBOW (UP & DOWN)
Ø +	DENOTES ROUND DUCT SIZE IN INCHES (OUTSIDE WALL DIMENSIONS)
	SUPPLY AIR TERMINALS CEILING OR DUCT MOUNTED (SQUARE, RECTANGULAR, CIRCULAR & SIDEWALL)
	EXHAUST/RETURN AIR TERMINAL
SA-(*)	SOUND ATTENUATOR
20x12	(SQUARE OR RECTANGULAR)
20x12 AD OR AP	ACCESS DOOR OR ACCESS PANEL DUCTWORK SIZING (OUTSIDE WALL DIMENSIONS)
M.O.D. VD 18x9	DAMPERS (MOTOR OPERATED & MANUAL)
F.D. F.S.D.	FIRE DAMPER= F.D. FIRE SMOKE DAMPER= F.S.D.
	DUCT TAKEOFF FROM MAIN SUPPLY, RETURN OR EXHAUST
Z X Z=X+Y	SPLIT TAKEOFF W/RADIUS ELBOW SUPPLY, RETURN OR EXHAUST
Z X Z=X+Y	SPLIT TAKEOFF W/SQUARE OR RECT. ELBOW SUPPLY, RETURN OR EXHAUST
	ELBOW & SPLIT SUPPLY, RETURN OR EXHAUST
20x10 20x20 20x10 PLAN; 20x10 20x20 20x10 ELEVATION	HORIZONTAL DUCT SPLIT
OR	ELBOW W/TURNING VANES UNLESS INDICATED OTHERWISE
W R R=W	RADIUS ELBOW
FC	FLEXIBLE CONNECTION
20x12 Øx8	TRANSITION
20x12 Øx8	TRANSITION W/ONE FLAT SIDE
R OR D	DUCT RISE OR DROP IN DIRECTION OF ARROW

SYMBOL LINE	DESCRIPTION
	BALL VALVE
	BUTTERFLY VALVE
	BALANCING VALVE, PLUG TYPE
	HYDRONIC BALANCE FITTING (SIZED FOR ACTUAL FLOW)
	CHECK VALVE
	GATE VALVE
	MOTORIZED TWO-WAY CONTROL VALVE
	MOTORIZED THREE-WAY CONTROL VALVE
	BALL VALVE W/HOSE END CONNECTION
	CAP
	ELBOW 90°
	ELBOW, 45°
	ELBOW, TURNED UP
	ELBOW, TURNED DOWN
	LATERAL
	REDUCER, CONCENTRIC
	REDUCER, ECCENTRIC
	TEE
	TEE, OUTLET UP
	TEE, OUTLET DOWN
	TEE, OUTLET UP OR DOWN W/ ELBOW
	SIDE CONNECTION
	UNION, SCREWED
	UNION, FLANGED
	PRESSURE GAUGE AND COCK
	PRESSURE GAUGE W/ SIPHON (FOR STEAM)
	STRAINER W/CAPPED BALL TYPE BLOW-DOWN VALVE
	THERMOMETER
	PRESS./TEMP. TEST PLUG
T	THERMOSTAT/TEMPERATURE SENSOR
H	HUMIDISTAT/HUMIDITY SENSOR
S	SWITCH
SD	SMOKE DETECTOR (DUCT MOUNTED)
DETAIL NO. / DRAWING NO.	DETAIL DRAWING SYMBOL
RETURN OR EXHAUST / SUPPLY	SQUARE OR RECTANGULAR DUCT DROP W/TURNING VANES UNLESS INDICATED OTHERWISE
RETURN OR EXHAUST / SUPPLY	SQUARE OR RECTANGULAR DUCT RISE W/TURNING VANES UNLESS INDICATED OTHERWISE
	ITEM TO BE DEMOLISHED
	VARIABLE AIR VOLUME BOX W/HOT WATER COIL

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MECHANICAL / ELECTRICAL
NEW WORK DETAILS,
SYMBOLS, AND ABBREVIATIONS

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