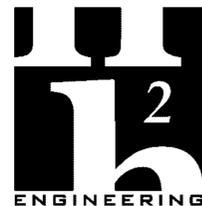


NOTE:
11" x 17" SHEETS ARE PLOTTED AT 1/2
THE SCALE NOTED ON THESE DRAWINGS



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Matthew T. Sorrigio, P.E. #54659

**SWHS CAMPUS IMPROVEMENTS-
CLASSROOM ADDITION**

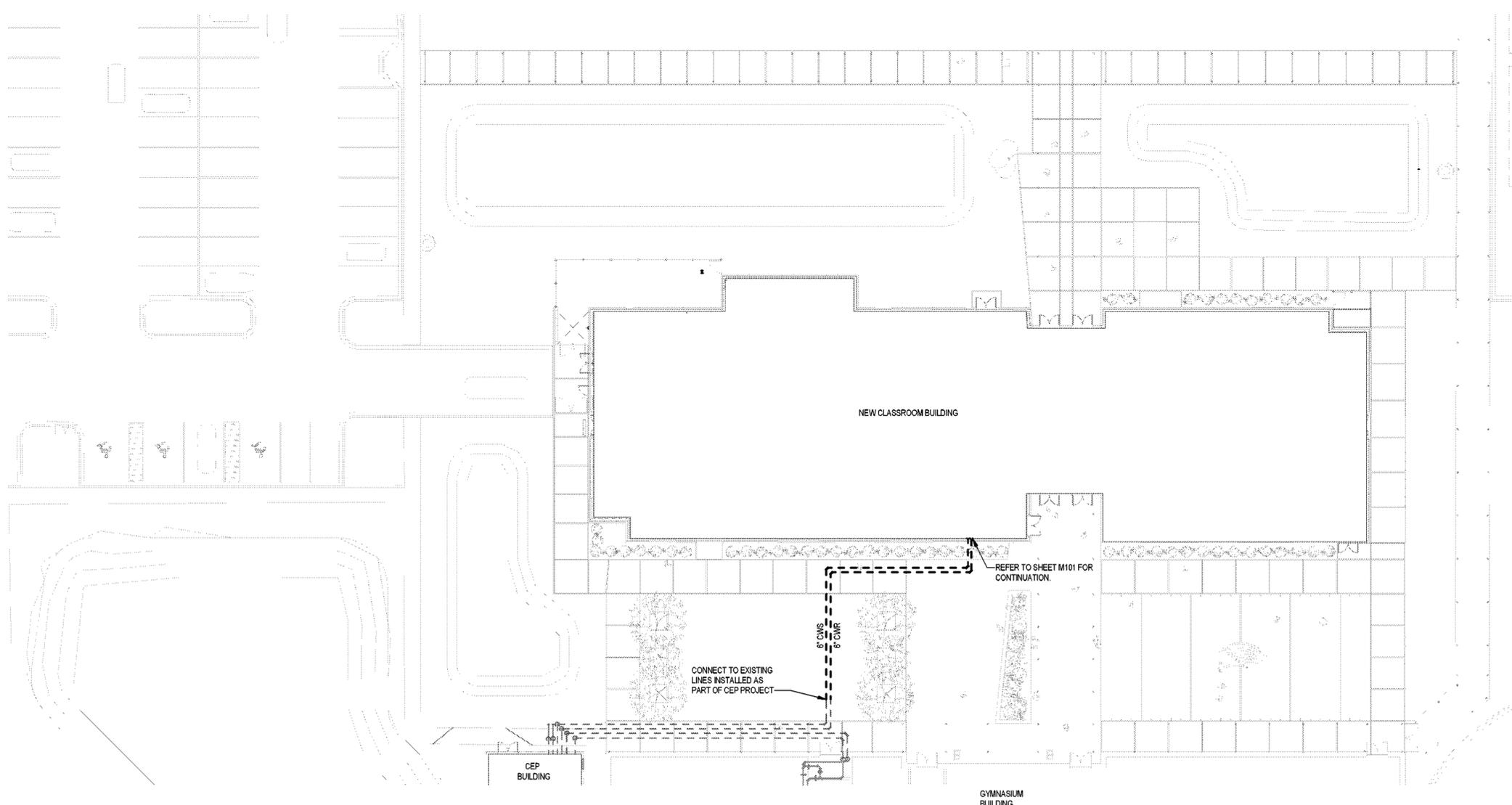
REV	DATE	DESCRIPTION

PROJECT PHASE
CONSTRUCTION DOCUMENTS

DATE 20 FEBRUARY 2026	DRAWN BY JDR
PROJECT NO 68202	CHECKED BY MTS

SHEET TITLE
SITE PLAN

SHEET NO M100	REV NO
-------------------------	--------



SITE PLAN - HVAC
1" = 20'-0"
NORTH

MECHANICAL PLAN KEYNOTES

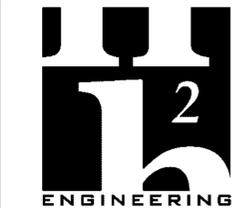
- ① PROVIDE SLOT SUPPLY DIFFUSER WITH FLANGE PLASTER FRAME, CONCEALED MOUNTING AND SQUARE PLENUM. WHERE INSTALLED IN LAY-IN CEILING PROVIDE REGULAR LAY IN FRAME. DEVICES LONGER THAN 2'-0" SHALL BE PROVIDED WITH CONTINUOUS SLOTS WITH OUTSIDE FRAME AND MITERED CORNERS. WHERE PLENUM LENGTH EXCEEDS 4'-0" PROVIDE CUSTOM LENGTH, INLET SIZE, NUMBER OF SLOTS AND SLOT WIDTH INDICATED ON PLANS. PRICE, SDS (TYPE 7 OR TYPE 17) SDB OR APPROVED EQUAL - SEE DETAIL DM501.
- ② PACKAGED WATER SOURCE HEAT PUMP MAKEUP AIR UNIT WITH ELECTRIC BACK UP HEAT FOR KITCHEN HOOD MAKEUP AIR. DUCT UP EXTERIOR WALL AND INTO CEILING CAVITY.
- ③ SPIRAL DUCT MOUNT LINEAR SLOT DIFFUSER WITH CONCEALED MOUNT; METALARE 6610SP-12-1 OR APPROVED EQUAL.
- ④ 22 GA ALUMINIZED STEEL DRYER VENT RECEPTACLE BOX FOR INSTALLATION IN 6-INCH WALL WITH UPWARD EXHAUST. DRYERBOX DB-425 OR APPROVED EQUAL.
- ⑤ POWDER COATED, HEAVY GAUGE GALVALUME STEEL BODY DRYER VENT CAP WITH DAMPER. DRYER WALL VENT DWW4x OR APPROVED EQUAL. COLOR: SELECTED BY ARCHITECT.
- ⑥ PROVIDE POWDER COATED ALUMINUM SHROUD TO CONCEAL EXTERIOR DUCTWORK. COLOR TO BE SELECTED BY ARCHITECT.
- ⑦ INTERNALLY LINED TRANSFER/RETURN AIR DUCT ABOVE CEILING. PROVIDE ELBOWS AS INDICATED.
- ⑧ SECTION OF EXHAUST AIR DUCT FROM DISHWASHER HOOD TO LOUVER SHALL BE 16 GAUGE, WELDED STAINLESS STEEL KITCHEN EXHAUST. PROVIDE FLEXIBLE CONNECTION AT TRANSITION FROM STAINLESS STEEL TO GALVANIZED STEEL EXTENSION TO RESTROOM EXHAUST. MAKE CONNECTION TO DISHWASHER HOOD PROVIDED BY KITCHEN EQUIPMENT SUPPLIER.
- ⑨ GREASE DUCT SHALL BE 16 GAUGE WELDED STAINLESS STEEL DUCTWORK WITH NO DAMPERS OR VANES. SLOPE DUCT BACK TO HOOD AT MINIMUM 1/4" PER FOOT.
- ⑩ INTERNALLY LINED PLENUM ABOVE EGG CRATE GRILLES.
- ⑪ DOUBLE WALL SPIRAL DUCT WITH 2" INSULATION, SOLID LINER AND PAINT GRIP EXTERIOR. PAINT DUCT, COLOR TO BE SELECTED BY ARCHITECT. CENTER IN ROOM AND HANG WITH ROUND DUCT HANGER SEE DETAIL HM502.
- ⑫ 48"x24"x30H SUPPLY PLENUM DIRECTLY ABOVE AND CONNECTED TO 4 - 22x22 EGG CRATE GRILLES. PROVIDE 18x18 DUCT TAP FROM MAIN TO CENTER OF PLENUM.
- ⑬ NOT USED.
- ⑭ ROUTE CONDENSATE DRAIN SO NOT TO IMPEDE ACCESS TO HVAC UNIT IN ANY WAY AND TERMINATE OVER HUB DRAIN - SEE PLUMBING DRAWINGS FOR LOCATION.
- ⑮ FIRE DAMPER AT SLAB PENETRATION. INSTALL ACCESS PANEL IN DUCT ABOVE SLAB WHERE INSTALLED IN MECHANICAL ROOM AND BELOW SLAB WHERE INSTALLED IN AN ENCLOSED CHASE - SEE DETAIL FM502.
- ⑯ ROUTE CWS/R LINES DOWN WALL AND HORIZONTAL ABOVE FLOOR AS INDICATED. INSTALL STRAINER, FLEXIBLE CONNECTORS, ISOLATION VALVES, AND SOLENOID VALVE IN HORIZONTAL SECTION WHERE ACCESSIBLE. DO NOT INSTALL PIPING IN FRONT OF UNIT OR BLOCK ACCESS TO THE UNIT IN ANY WAY. (TYPICAL)
- ⑰ NOT USED.
- ⑱ ROUTE REFRIGERANT LINES DOWN INSIDE WALL CAVITY; EXIT APPROXIMATELY 8" AFF. PROVIDE ESCUTCHEON AT WALL PENETRATION AND SEAL ANNULAR SPACE AROUND INSULATED LINE WITH CAULK. SEE DETAIL AM503.
- ⑲ RETURN AND OUTSIDE AIR DAMPERS. INSTALL SO OPERATORS ARE ACCESSIBLE - SEE DETAIL DM502.
- ⑳ VARIABLE WIDTH ELBOW. INLET WIDTH SHALL MATCH DUCT SIZE INDICATED. OUTLET SHALL MATCH RETURN AIR CONNECTION ON WSH-P.



ARCHITECTURE
PLANNING INTERIORS
GRAPHICS

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(850) 222-7442
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CLASSROOM ADDITION**

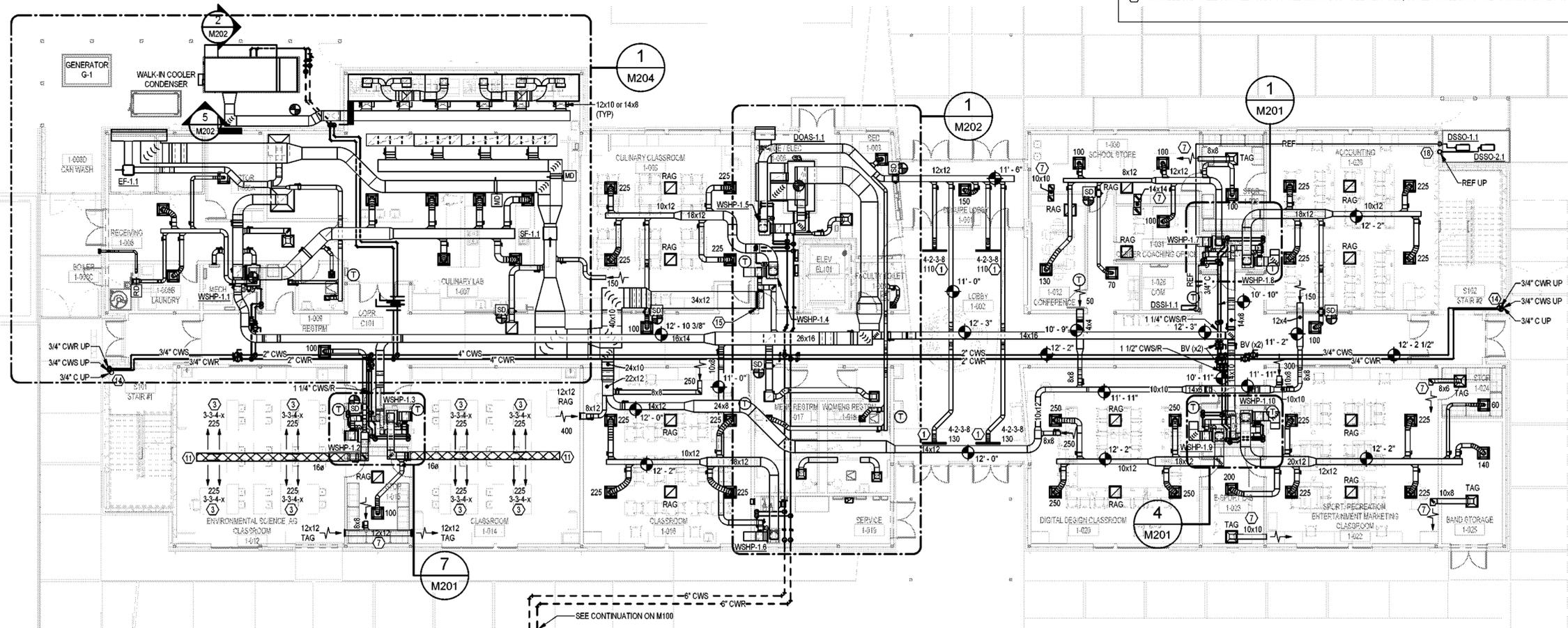
REV	DATE	DESCRIPTION

PROJECT PHASE
CONSTRUCTION DOCUMENTS

DATE 20 FEBRUARY 2026	DRAWN BY JDR
PROJECT NO 68202	CHECKED BY MTS

SHEET TITLE
FIRST FLOOR PLAN

SHEET NO M101	REV NO
-------------------------	--------



FIRST FLOOR PLAN - HVAC
3/32" = 1'-0"
NORTH

MECHANICAL PLAN KEYNOTES

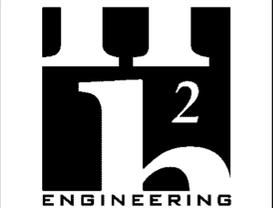
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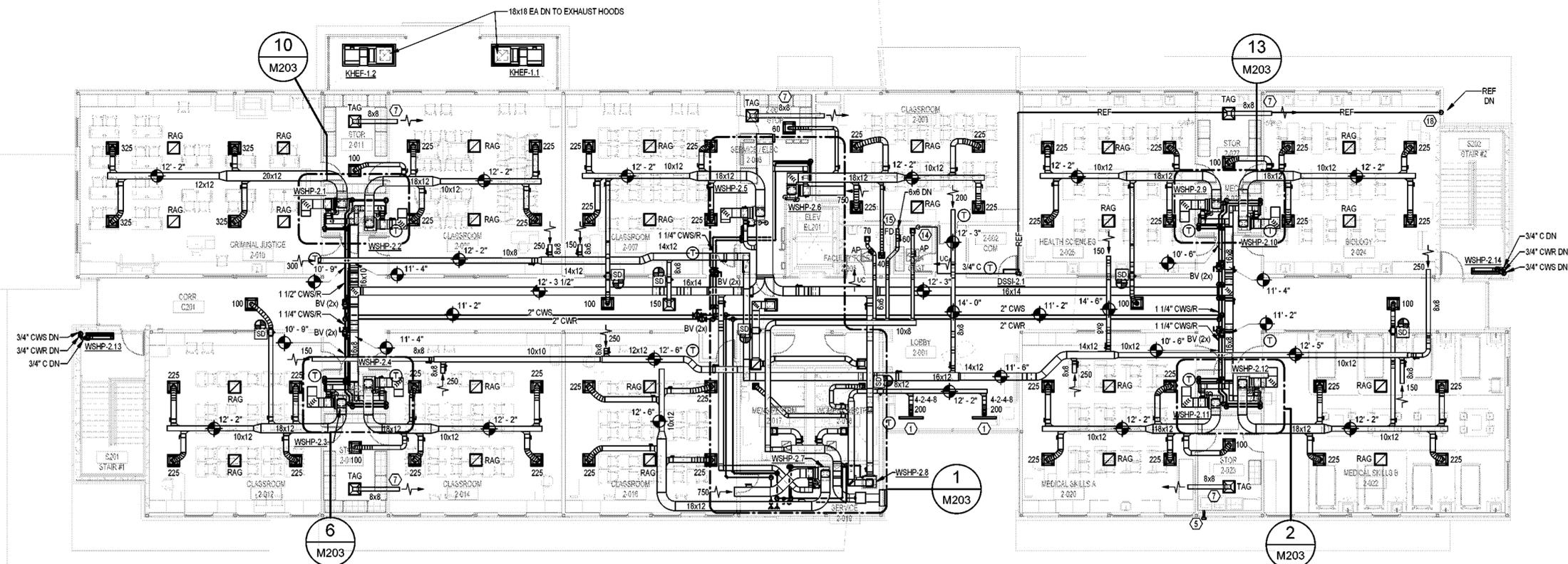
ARCHITECTURE
PLANNING INTERIORS
GRAPHICS

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(850) 222-7442
www.emiarch.com
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NOTE:
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SECOND FLOOR PLAN - HVAC
3/32" = 1'-0"
NORTH

**SWHS CAMPUS IMPROVEMENTS-
CLASSROOM ADDITION**

REV	DATE	DESCRIPTION

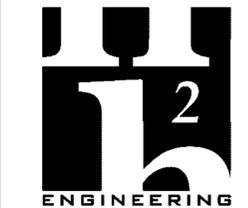
PROJECT PHASE
CONSTRUCTION DOCUMENTS

DATE	DRAWN BY
20 FEBRUARY 2026	JDR
PROJECT NO	CHECKED BY
68202	MTS

SHEET TITLE
SECOND FLOOR PLAN

SHEET NO	REV NO
M102	

NOTE:
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CLASSROOM ADDITION

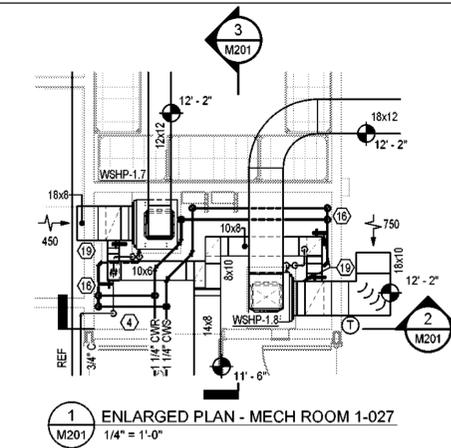
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PROJECT PHASE
CONSTRUCTION DOCUMENTS

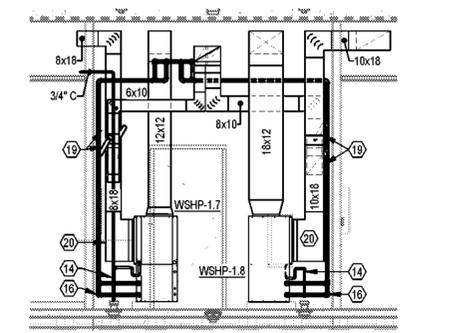
DATE 20 FEBRUARY 2026	DRAWN BY JDR
PROJECT NO 68202	CHECKED BY MTS

SHEET TITLE
ENLARGED PLANS

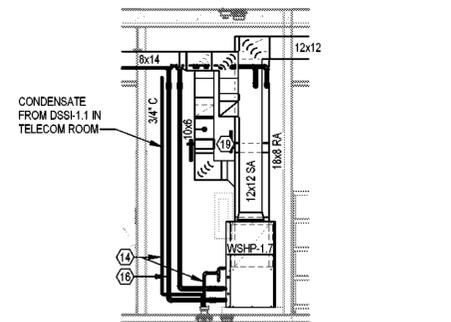
SHEET NO M201	REV NO
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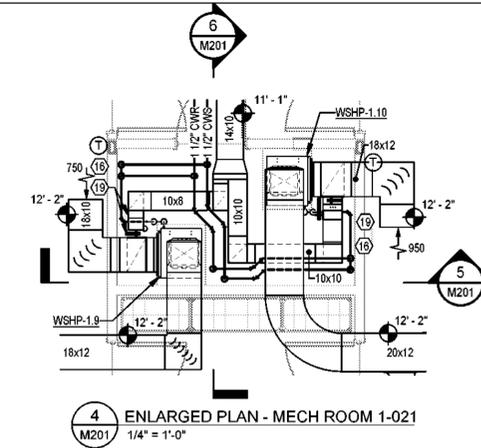
1 ENLARGED PLAN - MECH ROOM 1-027
1/4" = 1'-0"



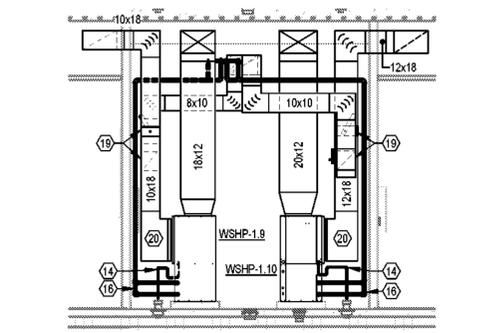
2 SECTION - MECH ROOM 1-027
1/4" = 1'-0"



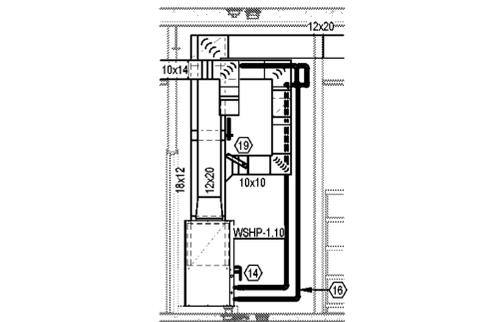
3 SECTION - MECH ROOM 1-027
1/4" = 1'-0"



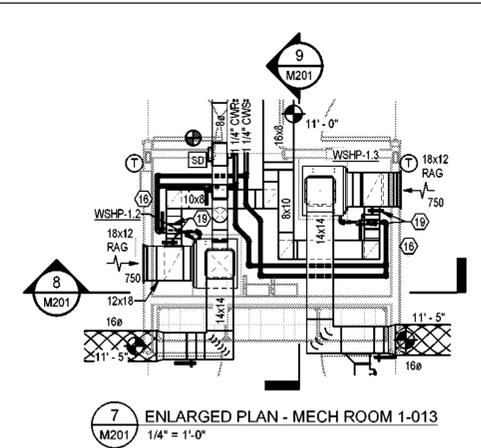
4 ENLARGED PLAN - MECH ROOM 1-021
1/4" = 1'-0"



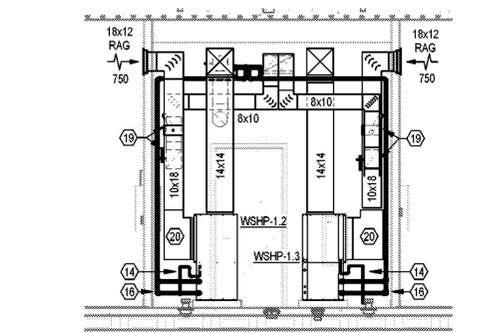
5 SECTION - MECH ROOM 1-021
1/4" = 1'-0"



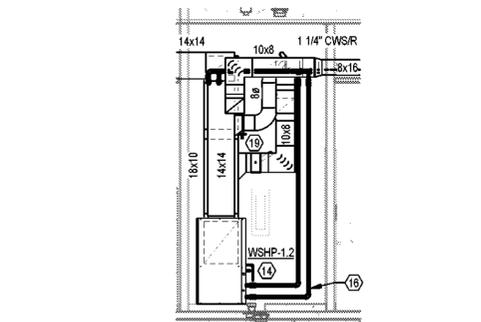
6 SECTION - MECH ROOM 1-021
1/4" = 1'-0"



7 ENLARGED PLAN - MECH ROOM 1-013
1/4" = 1'-0"

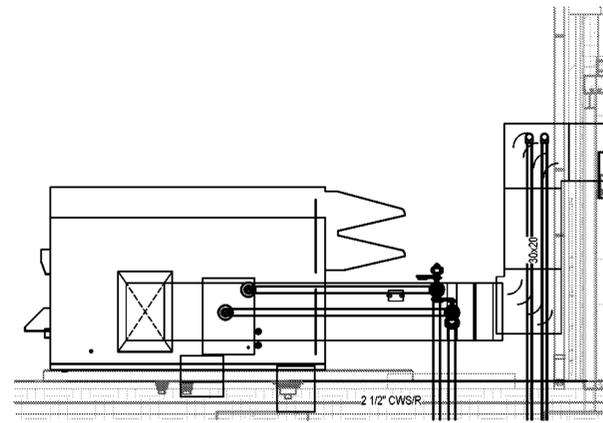


8 SECTION - MECH ROOM 1-013
1/4" = 1'-0"

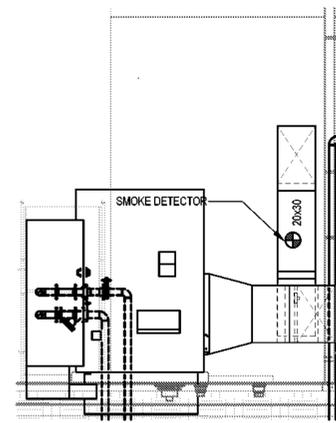


9 SECTION - MECH ROOM 1-013
1/4" = 1'-0"

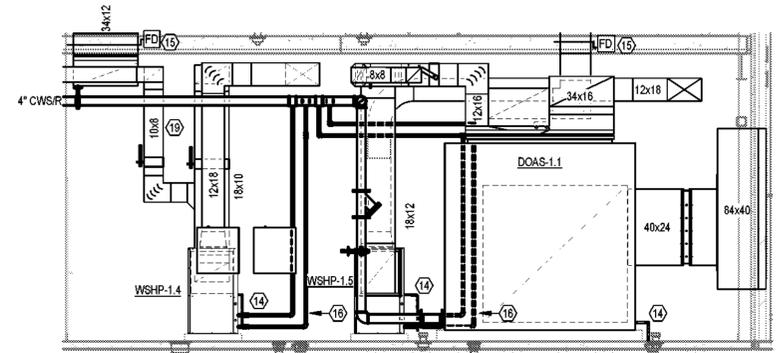
SEE FLOOR PLANS FOR KEYNOTES



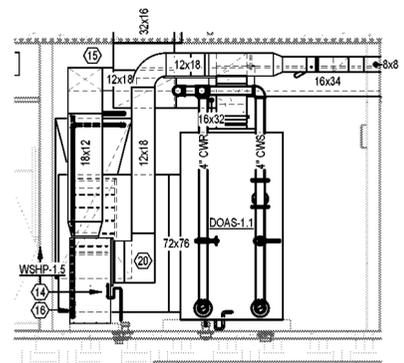
5 SECTION - MECH YARD
M202 1/4" = 1'-0"



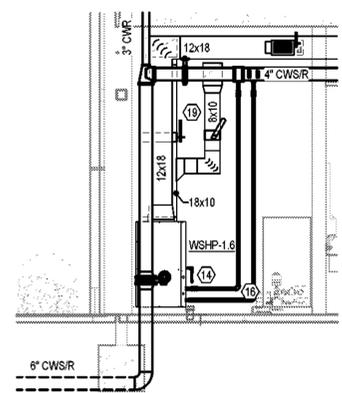
2 SECTION - MECH YARD
M202 1/4" = 1'-0"



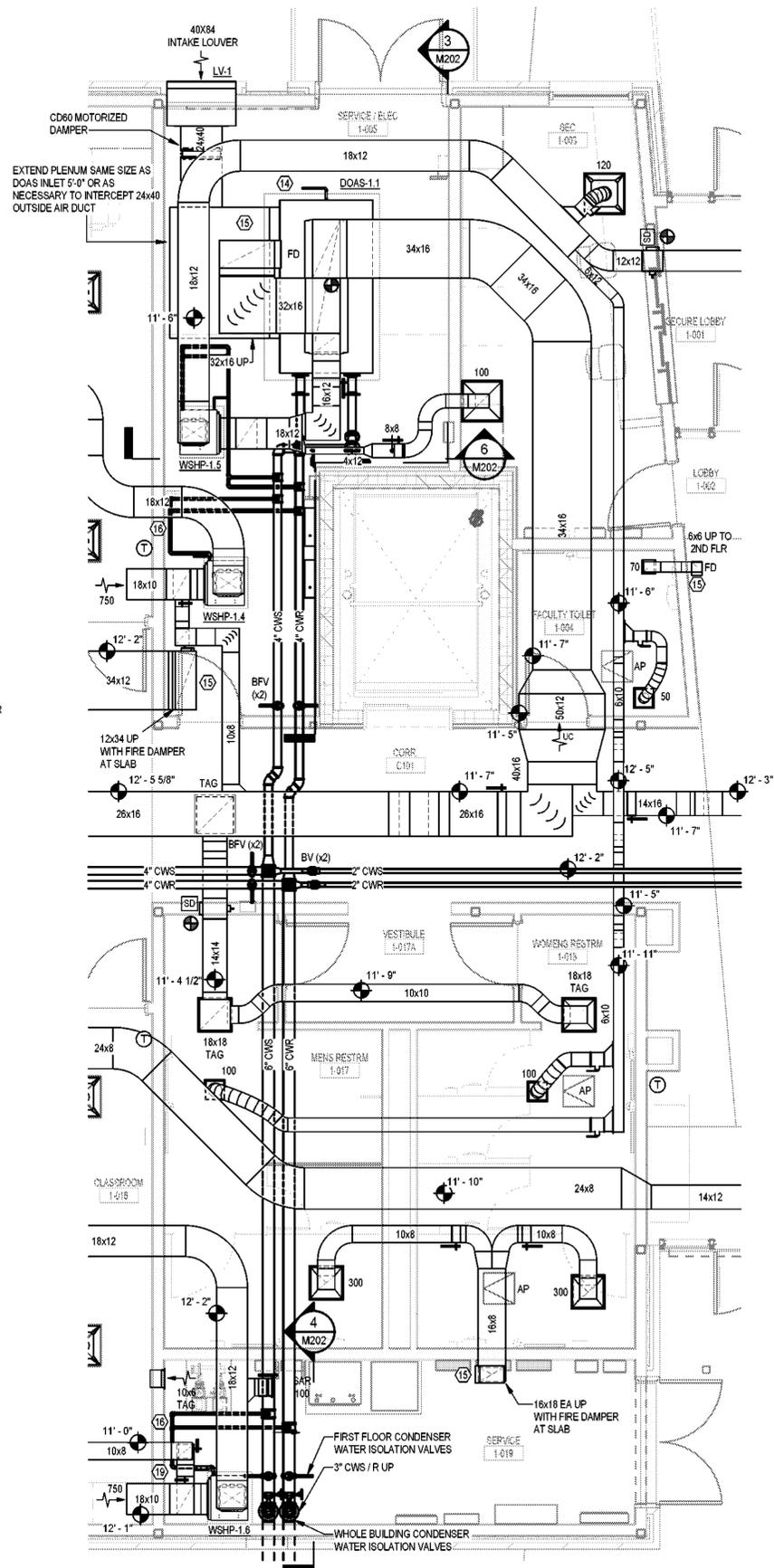
3 SECTION - MECH RM 1-005
M202 1/4" = 1'-0"



6 SECTION - MECH RM 1-005
M202 1/4" = 1'-0"



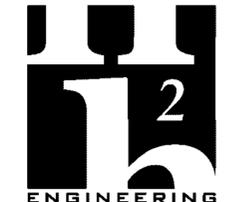
4 SECTION - MECH RM 1-019
M202 1/4" = 1'-0"



1 ENLARGED PLAN - MECHANICAL CORE
M202 1/4" = 1'-0"

SEE FLOOR PLANS FOR KEYNOTES

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**SWHS CAMPUS IMPROVEMENTS-
CLASSROOM ADDITION**

REV	DATE	DESCRIPTION

PROJECT PHASE
CONSTRUCTION DOCUMENTS

DATE
20 FEBRUARY 2026

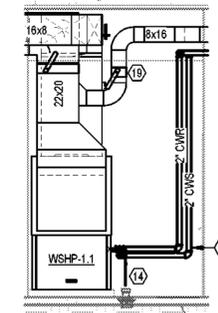
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PROJECT NO
68202

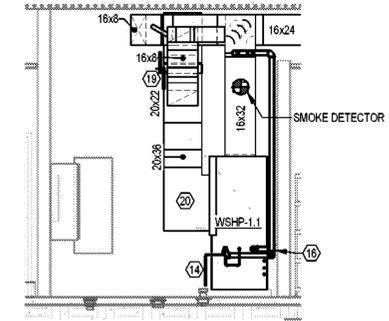
CHECKED BY
MTS

SHEET TITLE
ENLARGED PLANS

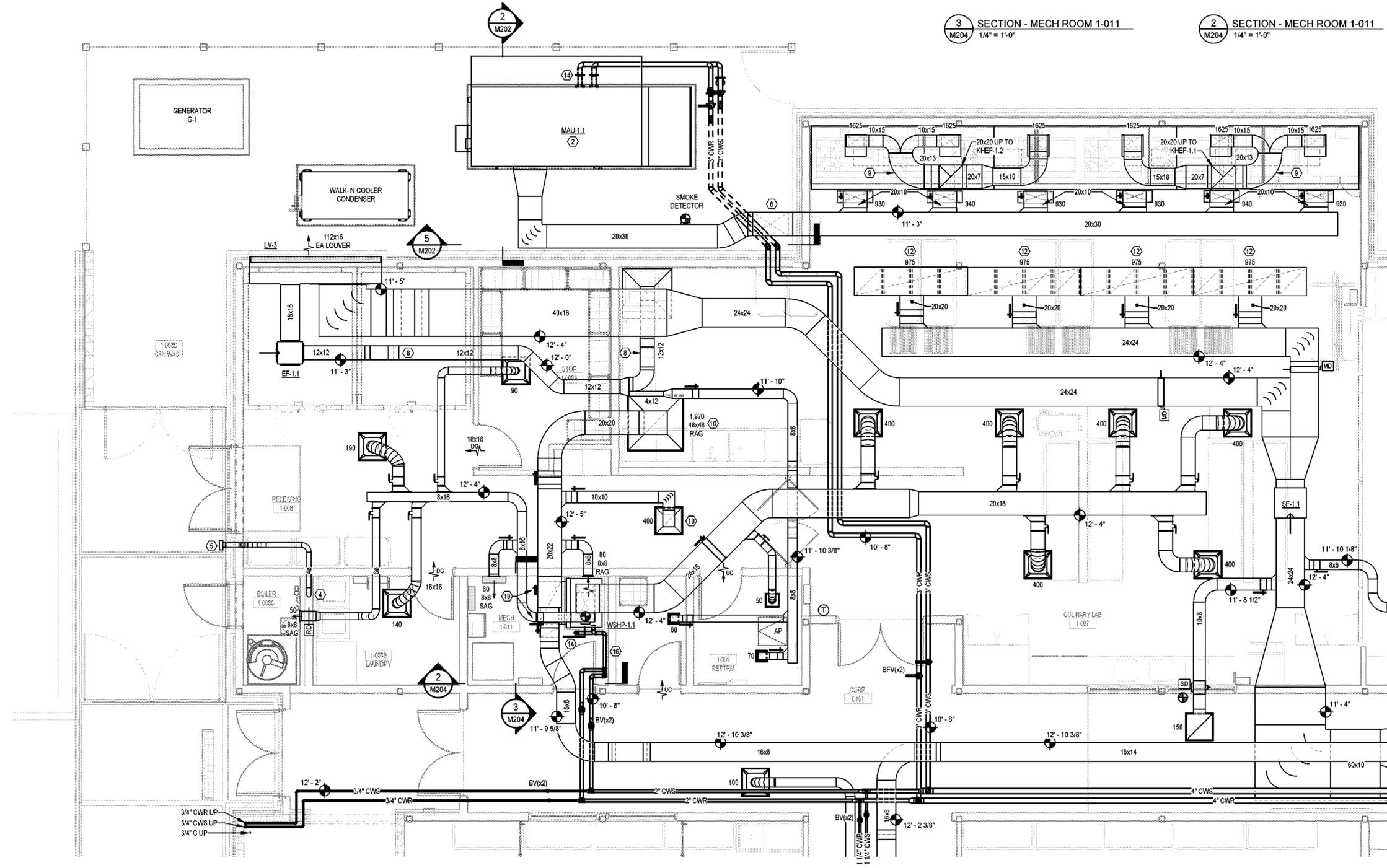
SHEET NO	REV NO
M202	



3 SECTION - MECH ROOM 1-011
M204 1/4" = 1'-0"



2 SECTION - MECH ROOM 1-011
M204 1/4" = 1'-0"



1 ENLARGED PLAN - CULINARY ARTS
M204 1/4" = 1'-0"

SEE FLOOR PLANS FOR KEYNOTES

NOTE:
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20 FEBRUARY 2026

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JDR

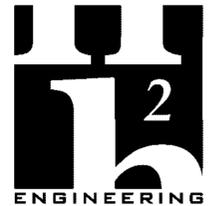
PROJECT NO
68202

CHECKED BY
MTS

SHEET TITLE
ENLARGED PLAN - CULINARY
ARTS

SHEET NO	REV NO
M204	

NOTE:
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SWHS CAMPUS IMPROVEMENTS-
CLASSROOM ADDITION

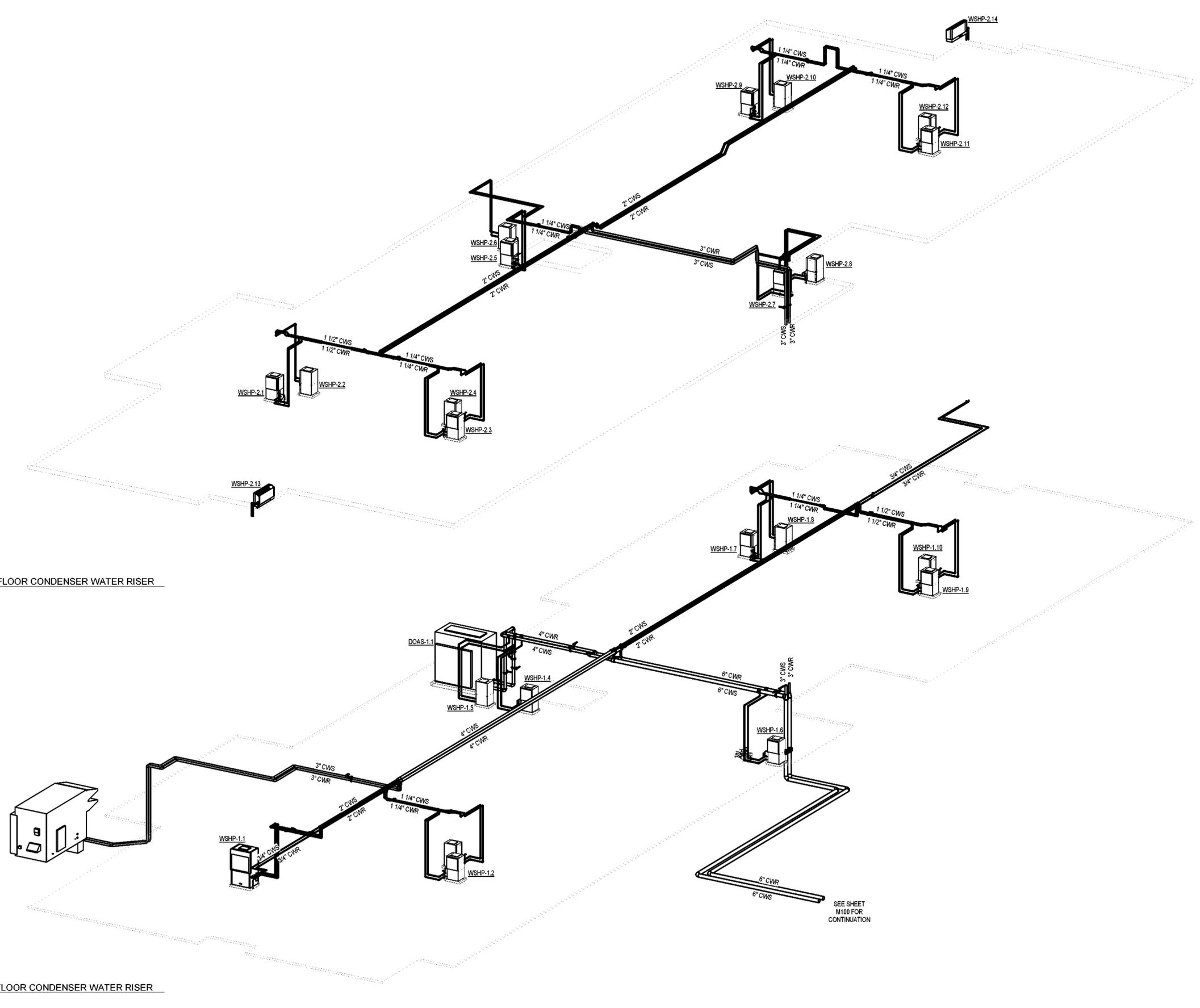
REV	DATE	DESCRIPTION

PROJECT PHASE
CONSTRUCTION DOCUMENTS

DATE 20 FEBRUARY 2026	DRAWN BY JDR
PROJECT NO 68202	CHECKED BY MTS

SHEET TITLE
CONDENSER WATER RISER

SHEET NO M301	REV NO
-------------------------	--------



2 2ND FLOOR CONDENSER WATER RISER
M301

1 1ST FLOOR CONDENSER WATER RISER
M301

SEE SHEET
M100 FOR
CONTINUATION

DUCTLESS SPLIT SYSTEM TYPES

TYPE		A	
DESCRIPTION		COOLING ONLY	
PERFORMANCE - (NOTES 1 & 2)			
NOMINAL CAPACITY	TONS	3/4	
TOTAL COOLING CAPACITY	BTUH	9,000	
SENSIBLE COOLING CAPACITY	BTUH	8,290	
HEATING CAPACITY @ 47 °F	BTUH	N/A	
HEATING CAPACITY @ 17 °F	BTUH	N/A	
AIR FLOW RATE (HIGH - LOW)	CFM	431 - 249	
SEER2	BTU / W-HR	21.0	
HSPF2	BTU / W-HR	N/A	
INDOOR UNIT DATA			
FILTERS		1" WASHABLE	
CONDENSATE DRAIN SIZE	IN.	3/4	
ELECTRICAL CHARACTERISTICS	V / PH	N/A	
MINIMUM CIRCUIT AMPACITY	AMPS	N/A	
MAXIMUM OVERLOAD PROTECTION	AMPS	N/A	
WEIGHT	LBS.	19.8	
OUTDOOR UNIT DATA			
COMPRESSOR TYPE		INVERTER	
ELECTRICAL CHARACTERISTICS	V / PH	208 / 1	
MINIMUM CIRCUIT AMPACITY	AMPS	9.1	
MAXIMUM OVERLOAD PROTECTION	AMPS	15	
WEIGHT	LBS.	60	
MAX REFRIGERANT LINE LENGTH	FT	96	
REFRIGERANT TYPE		R32	
MANUFACTURER		DAIKIN	
MODEL NUMBER (INDOOR UNIT)		FTKF09AXVJU	
MODEL NUMBER (OUTDOOR UNIT)		RKF09AXVJU	
DETAIL REFERENCE		AM503	

- NOTES:**
- 1 COOLING CAPACITY RATED @ 95 °F AMBIENT, 80 °Fdb / 67 °Fwb ENTERING AIR TEMPERATURE.
 - 2 HEATING CAPACITY RATED @ 47 °Fdb / 43 °Fwb AMBIENT, 70 °Fdb ENTERING AIR TEMPERATURE.
 - 3 UNIT SHALL BE CAPABLE OF OPERATION FOR AMBIENT TEMPERATURES DOWN TO 14°F
 - 4 REFRIGERANT PIPING SHALL BE SIZED BY MANUFACTURER.
 - 5 PROVIDE INTEGRAL CONDENSATE SENSOR TO SHUT UNIT OFF IF HIGH CONDENSATE LEVELS ARE DETECTED IN THE DRAIN PAN.

DUCTLESS SPLIT SYSTEMS

INDOOR UNIT DESIGNATION	DSSI-1.1	DSSI-2.1
OUTDOOR UNIT DESIGNATION	DSSO-1.1	DSSO-2.1
SCHEDULED TYPE	A	A
DESCRIPTION	COOLING ONLY	COOLING ONLY
FAN SPEED	MEDIUM	MEDIUM
NOTES	1, 2, 3	1, 2, 3

- NOTES:**
- 1 PROVIDE ELECTRONIC PROGRAMMABLE THERMOSTAT
 - 2 PROVIDE CONDENSATE PUMP
 - 3 INDOOR UNIT POWERED SEPARATE FROM OUTDOOR UNIT.

WATER SOURCE MAKE UP AIR UNIT SCHEDULE

UNIT DESIGNATION		MAU-1.1	
AIR QUANTITIES			
TOTAL SUPPLY AIR	CFM	5600	
OUTSIDE AIR FILTERS		2 INCH MERV 13	
CAPACITY			
HEATING CAPACITY	MBTUH	552	
TOTAL COOLING CAPACITY	MBTUH	537	
SENSIBLE COOLING CAPACITY	MBTUH	259	
AIR TEMPERATURES			
COOLING COIL ENTERING	*Fdb - *Fwb	95 - 78	
COOLING COIL LEAVING	*Fdb - *Fwb	51.3 - 51.2	
UNIT LEAVING	*Fdb - *Fwb	75.7 - 60.9	
HEATING COIL ENTERING AND LEAVING	*Fdb - *Fdb	28 - 112	
CONDENSER WATER			
CONDENSER COIL ENTERING AND LEAVING (COOLING)	*F - *F	85 - 98	
CONDENSER COIL ENTERING AND LEAVING (HEATING)	*F - *F	65 - 55	
CONDENSER WATER FLOW	GPM	95	
PRESSURE DROP	FT H2O	5	
RUNOUT PIPE SIZE	IN.	3	
WATER SOURCE HEAT PUMP DATA			
AUXILIARY HEAT TYPE		NONE	
REHEAT TYPE		HOT GAS MOD	
EXTERNAL STATIC PRESSURE (INCL. FILTER)	IN.	1.7	
BLOWER MOTOR HORSEPOWER	HP	5	
NUMBER OF COMPRESSORS	#	4	
ELECTRICAL CHARACTERISTICS	V / PH	460 / 3	
MINIMUM AMPACITY / MAXIMUM OVERLOAD PROTECTION	AMPS / AMPS	74.9 / 90	
CONDENSATE DRAIN SIZE	IN.	1	
UNIT WEIGHT	LBS.	6058	
EER		14.9	
COP		4.2	
MANUFACTURER		TRANE	
MODEL NUMBER		OANES40F4	

- NOTES:**
- 1 PROVIDE SLOW CLOSING CONDENSER FLOW CONTROL VALVE INTERLOCKED WITH COMPRESSOR OPERATION.
 - 2 PROVIDE HORIZONTAL SUPPLY DISCHARGE
 - 3 PROVIDE DIGITAL, VARIABLE SPEED SCROLL COMPRESSOR ON EACH CIRCUIT WITH SOUND ATTENUATING PACKAGE
 - 4 PROVIDE 100% OUTSIDE AIR, 2-POSITION CLASS 1A LOW LEAKAGE DAMPER
 - 5 PROVIDE DISCHARGE AIR CONTROL
 - 6 PROVIDE NON-FUSED DISCONNECT
 - 7 PROVIDE COATED COILS, STAINLESS STEEL CASING AND CORROSION PROTECTION PACKAGE
 - 8 PROVIDE FACTORY INSTALLED CONTROLS DISPLAY
 - 9 PROVIDE STAINLESS STEEL DRIP PAN AND CONDENSATE OVERFLOW SWITCH
 - 10 CABINET SHALL BE 2-INCH DOUBLE-WALL CONSTRUCTION
 - 11 PROVIDE 65 SCCR RATING

WATER SOURCE DEDICATED OUTSIDE AIR UNIT SCHEDULE

UNIT DESIGNATION		DOAS-1.1	
AIR QUANTITIES			
TOTAL SUPPLY AIR	CFM	6,800	
OUTSIDE AIR FILTERS		2 INCH MERV 13	
CAPACITY			
HEATING CAPACITY	MBTUH	573	
TOTAL COOLING CAPACITY	MBTUH	554	
SENSIBLE COOLING CAPACITY	MBTUH	286	
AIR TEMPERATURES			
COOLING COIL ENTERING	*Fdb - *Fwb	94 - 78	
COOLING COIL LEAVING	*Fdb - *Fwb	54.1 - 53.4	
UNIT LEAVING	*Fdb - *Fwb	70.5 - 59.9	
HEATING COIL ENTERING AND LEAVING	*Fdb - *Fdb	28 - 106.1	
CONDENSER WATER			
CONDENSER COIL ENTERING AND LEAVING (COOLING)	*F - *F	85 - 95	
CONDENSER COIL ENTERING AND LEAVING (HEATING)	*F - *F	65 - 55	
CONDENSER WATER FLOW	GPM	93	
PRESSURE DROP	FT H2O	10	
RUNOUT PIPE SIZE	IN.	3	
WATER SOURCE HEAT PUMP DATA			
AUXILIARY HEAT TYPE		NONE	
REHEAT TYPE		HOT GAS MOD	
EXTERNAL STATIC PRESSURE	IN.	2	
BLOWER MOTOR HORSEPOWER	HP	7.5	
NUMBER OF COMPRESSORS	#	2	
ELECTRICAL CHARACTERISTICS	V / PH	460 / 3	
MINIMUM AMPACITY / MAXIMUM OVERLOAD PROTECTION	AMPS / AMPS	85.4 / 110	
CONDENSATE DRAIN SIZE	IN.	1	
UNIT WEIGHT	LBS.	2780	
EER		15.6	
COP		5	
MANUFACTURER		ADDISON	
MODEL NUMBER		WOW-540BM4	

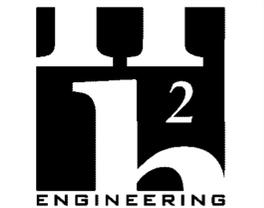
- NOTES:**
- 1 PROVIDE FLOW REGULATING SOLENOID VALVE WITH UNIT.
 - 2 PROVIDE FACTORY MOUNTED TRANE CONTROLS
 - 3 PROVIDE VERTICAL CABINET / VERTICAL SUPPLY
 - 4 PROVIDE EC MOTOR WITH AIR MONITORING STATION
 - 5 PROVIDE DUAL SCROLL / DUAL CIRCUIT WITH LEAD VFD
 - 6 PROVIDE COATED COILS
 - 7 PROVIDE CONDENSATE OVERFLOW SWITCH
 - 8 PROVIDE NON-FUSED DISCONNECT



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NOTE:
11" x 17" SHEETS ARE PLOTTED AT 1/2
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SWHS CAMPUS IMPROVEMENTS- CLASSROOM ADDITION

REV	DATE	DESCRIPTION

PROJECT PHASE
CONSTRUCTION DOCUMENTS

DATE	DRAWN BY
20 FEBRUARY 2026	JDR
PROJECT NO	CHECKED BY
68202	MTS

SHEET TITLE
SCHEDULES

SHEET NO	REV NO
M401	

FANS

DESIGNATION		EF-1.1	EF-2.1	SF-1.1	KHEF-1.1	KHEF-1.2
SERVICE		CLASS 1 OR 2 EXHAUST	CLASS 1 OR 2 EXHAUST	CLASS 1 OR 2 EXHAUST	GREASE EXHAUST	GREASE EXHAUST
MOUNTING METHOD		SUSPENDED	SUSPENDED	SUSPENDED	ROOF	ROOF
FAN TYPE		CENTRIFUGAL SQUARE IN-LINE	CENTRIFUGAL SQUARE IN-LINE	CENTRIFUGAL SQUARE IN-LINE	UTILITY SET	UTILITY SET
AIR FLOW	CFM	830	1,400	4,200	4,900	4,900
STATIC PRESSURE	IN.	0.5	0.6	1.3	1.2	1.2
AIRSTREAM TEMPERATURE	DEG F	70	70	70	180	180
FAN SPEED	RPM	1,116	1,343	1,644	872	872
FAN DRIVE		DIRECT	DIRECT	DIRECT	BELT	BELT
MOTOR SPEED	RPM	1,116	1,343	1,644	1,760	1,760
MOTOR POWER	HP or W	1/2 HP	3/4 HP	2 HP	2 HP	2 HP
MOTOR BRAKE HORSEPOWER	BHP	0.1	0.3	1.4	1.4	1.4
ELECTRONICALLY COMMUTATED MOTOR		NO	NO	NO	NO	NO
ELECTRICAL CHARACTERISTICS	V / PH	120 / 1	208 / 1	460 / 3	460 / 3	460 / 3
WEIGHT	LBS.	61	74	153	342	342
NOISE LEVEL (RADIATED)	SONES or LwA	4.2 SONES	6.9 SONES	9.5 SONES	16 SONES	16 SONES
STANDARD NOTES		1, 2, 4, 10, 15, 16, 17	1, 2, 4, 10, 16, 17	1, 2, 4, 10, 14, 17	3, 7, 13, 19, 24, 29, 30, 33, 34, 36	3, 7, 13, 19, 24, 29, 30, 33, 34, 36
SPECIAL NOTES					HI-PRO-Z 2-COAT	HI-PRO-Z 2-COAT
ARRANGEMENT		SIDE DISCHARGE			ARRANG 10 CCW TAU	ARRANG 10 CCW TAU
MANUFACTURER		GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK
MODEL NUMBER		SQ-120-VG	SQ-130-VG	SQ-16-M2-VG	USF-24-B6	USF-24-B6
DETAIL REFERENCE		GM501	GM501	GM501	HM501	HM501

NOTES: (SEE SEQUENCES OF OPERATION ON IC SHEETS FOR FAN CONTROLS)

- 1 PROVIDE PRE-WIRED DISCONNECT SWITCH, FACTORY MOUNTED FOR SINGLE PHASE MOTORS (3/4 HP AND SMALLER). ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH FOR 1 HP MOTOR AND LARGER.
- 2 PROVIDE SOLID STATE SPEED CONTROLLER, FACTORY MOUNTED.
- 3 PROVIDE BIRD SCREEN.
- 4 PROVIDE BACKDRAFT DAMPER, GRAVITY OPERATED.
- 5 PROVIDE BACKDRAFT DAMPER, MOTORIZED.
- 7 PROVIDE PRE-FABRICATED INSULATED ROOF CURB, 24-INCH HIGH WITH DAMPER TRAY, SLOPED TO MATCH ROOF SLOPE.
- 10 PROVIDE SPRING ISOLATORS.
- 13 PROVIDE VIBRATION ISOLATION RAILS WITH HOUSED SPRINGS.
- 14 PROVIDE INSULATED HOUSING.
- 15 PROVIDE SIDE DISCHARGE ARRANGEMENT (WHERE INDICATED ON PLANS).
- 16 PROVIDE INLET COMPANION FLANGE (WHERE CONNECTED TO DUCTWORK).
- 17 PROVIDE OUTLET COMPANION FLANGE (WHERE CONNECTED TO DUCTWORK).
- 18 PROVIDE WIRE GUARD (WHERE NOT CONNECTED TO DUCTWORK).
- 19 PROVIDE OSHA BELT GUARD / WEATHER COVER.
- 24 PROVIDE GREASE TRAP WITH DRAIN CONNECTION.
- 29 PROVIDE DRAIN.
- 30 PROVIDE ACCESS DOOR, BOLTED.
- 33 PROVIDE SHAFT SEAL AND STAINLESS STEEL SHAFT
- 34 COORDINATE FAN ROTATION, DISCHARGE, AND MOTOR ARRANGEMENT WITH PLANS.
- 36 PROVIDE CURB CAP AND LOW LOSS PLENUM INLET BOX WITH REMOVEABLE ACCESS DOOR.

LOUVERS

DESIGNATION		LV-1	LV-2	LV-3
SERVICE		INTAKE	EXHAUST	EXHAUST
AIR FLOW	CFM	6,800	1,400	5,030
DIMENSIONS	IN X IN	40 X 84	32 X 24	112 X 16
FREE AREA	SQ. FT	12.4	2.3	6.1
AIR VELOCITY	FPM	550	609	825
MAXIMUM AIR PRESSURE DROP	IN WG	0.15	0.15	0.30
MAXIMUM WATER PENETRATION	OZ / SF	< 0.01	< 0.01	< 0.01
AMCA 540 / 550 RATED		YES	YES	YES
SCREEN		BIRD	BIRD	BIRD
FLANGED FRAME		YES	YES	YES
FLANGE WIDTH	IN	1.75	1.75	1.75
EXTENDED SILL WITH WATER DAM		YES	YES	YES
FILTER RACK (REAR TUCK IN)		NO	NO	NO
BLANK OFF PANEL		NO	NO	NO
MOUNTING ANGLES		NO	NO	NO
SECURITY BARS		NO	NO	NO
COATING		AAMA 2605	AAMA 2605	AAMA 2605
MANUFACTURER		GREENHECK	GREENHECK	GREENHECK
MODEL NUMBER		EHV-550	EHV-550	EHV-550
DETAIL REFERENCE		DM503	DM503	DM503

WATER SOURCE HEAT PUMP SCHEDULE

UNIT DESIGNATION		TYPE A	TYPE B	TYPE C	TYPE D	TYPE E	TYPE F	TYPE G
AIR QUANTITIES								
TOTAL SUPPLY AIR	CFM	400	600	600	1000	1300	3,000	1,000
FRESH AIR	CFM	N/A	150	600	250	300	550	900
HEAT LOSSES AND GAINS								
TOTAL HEAT LOSS	BTUH	5,616	8,424	9,266	14,040	18,252	69,300	14,040
SENSIBLE HEAT GAIN	BTUH	5,421	12,960	14,256	21,600	28,080	61,873	21,600
TOTAL HEAT GAIN	BTUH	10,839	24,000	24,000	35,000	43,000	65,571	35,000
AIR TEMPERATURES								
COOLING COIL ENTERING	*Fdb - *Fwb	75 - 64.1	75 - 64.1	75 - 64.1	75 - 64.1	75 - 64.1	75 - 64.1	75 - 64.1
COOLING COIL LEAVING	*Fdb - *Fwb	55 - 54.8	55 - 54.8	55 - 54.8	55 - 54.8	55 - 54.8	55 - 54.8	55 - 54.8
HEATING COIL ENTERING AND LEAVING	*Fdb - *Fdb	72 - 85	72 - 85	72 - 85	72 - 85	72 - 85	72 - 85	72 - 85
WATER SOURCE HEAT PUMP DATA								
EXTERNAL STATIC PRESSURE (INCL. FILTER)	IN.	N/A	0.8	0.8	0.8	0.8	1	0.8
BLOWER MOTOR HORSEPOWER	HP	0.5	0.5	0.5	0.75	0.75	1.5	0.75
NUMBER OF COMPRESSORS	#	1	1	1	1	1	2	1
ELECTRICAL CHARACTERISTICS	V / PH	208 / 1	460 / 3	460 / 3	460 / 3	460 / 3	460 / 3	460 / 3
MINIMUM AMPACITY / MAXIMUM OVERLOAD PROTECTION	AMPS / AMPS	8.9 / 15	8.2 / 15	8.2 / 15	10.4 / 15	12.9 / 15	16.4 / 20	10.4 / 15
CONDENSER WATER FLOW & PRESSURE DROP	GPM - FT.	3 - 10.4	4.5 - 5	5 - 4.2	7.5 - 4	10 - 7.5	22.5 - 10.5	7.5 - 4
RUNOUT PIPE SIZE	IN.	3/4	1	1	1	1	1.5	1
CONDENSATE DRAIN SIZE	IN.	0.75	0.75	0.75	0.75	0.75	1	0.75
UNIT WEIGHT	LBS.	220	208	208	233	233	314	233
SEER/VEER		12.2	13.1	13.1	13.5	13.1	15.8	13.5
HSPF/ICOP		4.5	6	6	6	6	5.5	6
MANUFACTURER		CLIMATEMASTER						
DETAIL REFERENCE		DM502						
MODEL NUMBER		TRC12	SY-024	SY-024	SY-036	SY-042	SB-096	SY-036

NOTES:

- 1 TYPE A - WSHP-2.13 & 2.14
TYPE B - WSHP-1.7
TYPE C - WSHP-2.8
TYPE D - WSHP-1.2, 1.3, 1.4, 1.6, 1.8, 1.9, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.9, 2.10, 2.11, 2.12
TYPE E - WSHP-1.10, 2.1
TYPE F - WSHP-1.1
TYPE G - WSHP-1.5
- 2 PROVIDE SLOW ACTING, 24V MOTORIZED CONDENSER WATER VALVE
- 3 PROVIDE REFRIGERANT DETECTION SYSTEM FOR TYPE F UNITS
- 4 PROVIDE SOLID STATE CONTROLLER (DXM2.5) WITH 3-HEAT2-COOL PROGRAMMABLE THERMOSTAT AND BACnet GATEWAY / INTERFACE FOR BUILDING MANAGEMENT SYSTEM
- 5 PROVIDE ULTRAQUIET SOUND-ATTENUATION PACKAGE
- 6 PROVIDE 304 STAINLESS STEEL, INSULATED DRAIN PANS
- 7 PROVIDE 2-INCH FILTER FRAME WITH 2-INCH MERV 13 AIR FILTERS
- 8 PROVIDE 5 YEAR CONTROL BOARD, COMPRESSOR & REFRIGERATION CIRCUIT WARRANTY
- 9 RETURN AIR ARRANGEMENT - LEFT OR RIGHT AS INDICATED ON PLANS

BUILDING AIR BALANCE

		KITCHEN HOOD ON			KITCHEN HOOD OFF		
		FLOOR 1	FLOOR 2	BUILDING TOTAL	FLOOR 1	FLOOR 2	BUILDING TOTAL
OUTSIDE AIR							
DOAS-1.1	CFM	3,400	3,400	6,800	3,400	3,400	6,800
MUA-1.1	CFM	5,600		5,600			0
EXHAUST AIR							
EF-1.1	CFM	-830		-830	-830		-830
EF-1.2	CFM	-670	-730	-1,400	-670	-730	-1,400
KHEF-1.1	CFM	-4,900		-4,900			0
KHEF-1.2	CFM	-4,900		-4,900			0
TRANSFER AIR							
SF-1.1	CFM	2,500	-2,500	0	-1,700	-2,500	-4,200
NET PRESSURIZATION	CFM	200	170	370	200	170	370
BUILDING AREA	SF	16,300	15,800	32,100	16,300	15,800	32,100
NET PRESSURIZATION	CFM/SF	0.012	0.011	0.012	0.012	0.011	0.012

NOTES:

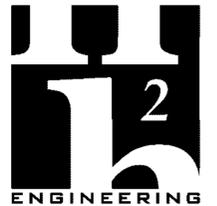
- 1 SF-1.1 OPERATES AS TRANSFER AIR FAN WITH KITCHEN HOOD ON AND AS A RELIEF AIR FAN WITH KITCHEN HOOD OFF.
- 2 KHEF-1.1 & 1.2 AND MAU-1.1 ARE OFF WHEN KITCHEN HOOD IS OFF.



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Matthew T. Soriano, P.E. #54639

SWHS CAMPUS IMPROVEMENTS-
CLASSROOM ADDITION

REV DATE DESCRIPTION

PROJECT PHASE

CONSTRUCTION DOCUMENTS

DATE

20 FEBRUARY 2026

DRAWN BY

JDR

PROJECT NO

68202

CHECKED BY

MTS

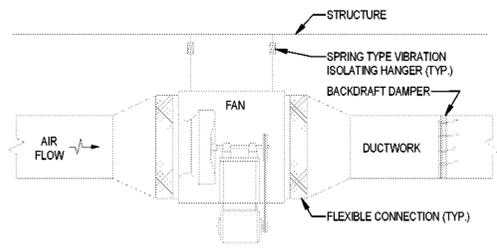
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SCHEDULES

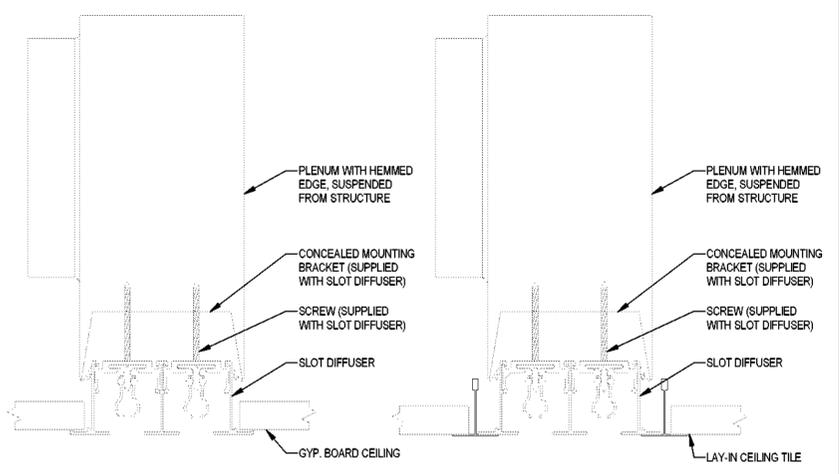
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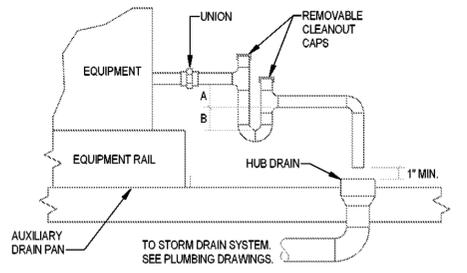
REV NO



- NOTES:**
1. INSTALL TO ALLOW ACCESS FOR MAINTENANCE.
 2. PROVIDE DIRECT DRIVE FAN WHERE SCHEDULED.

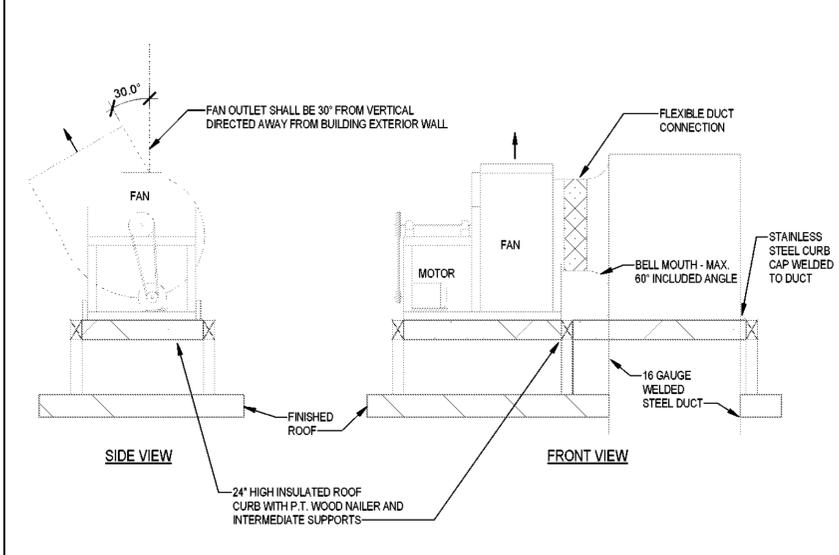


FLANGED FRAME, CONCEALED MOUNTING N.T.S. **T-BAR LAY-IN STYLE N.T.S.**

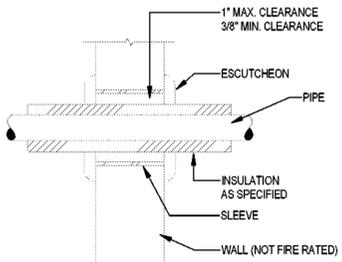


- NOTES:**
1. DRAIN LINE SHALL BE AT LEAST THE SAME SIZE AS THE CONNECTION ON THE DRAIN PAN (1" MIN.)
 2. DRAIN LINE SHALL SLOPE 1/8" PER FOOT (MIN.)
 3. SEE SPECIFICATIONS FOR PIPE AND INSULATION MATERIALS.
- | UNIT TYPE | A | B |
|-----------|-----------|----|
| DRAW-THRU | X PLUS 2" | X |
| BLOW-THRU | 1" MIN. | 2X |
- WHERE X=STATIC PRESSURE IN PAN

G IN-LINE FAN

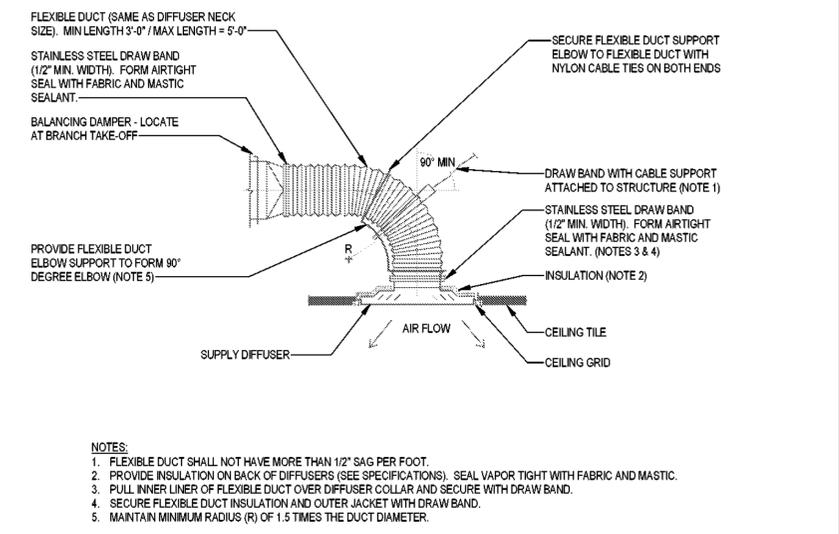


H UTILITY FAN WITH PLENUM

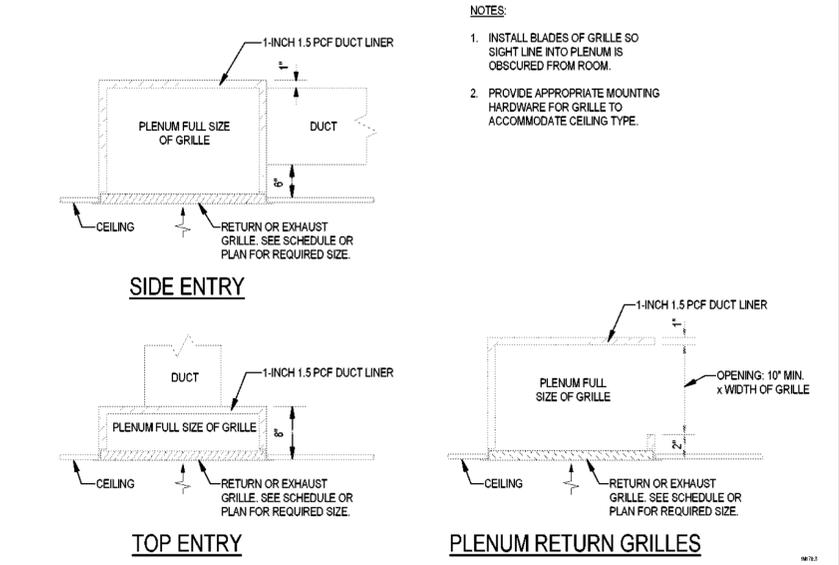


J PIPE PENETRATION OF NON-FIRE RATED WALL

D SLOT DIFFUSER DETAIL

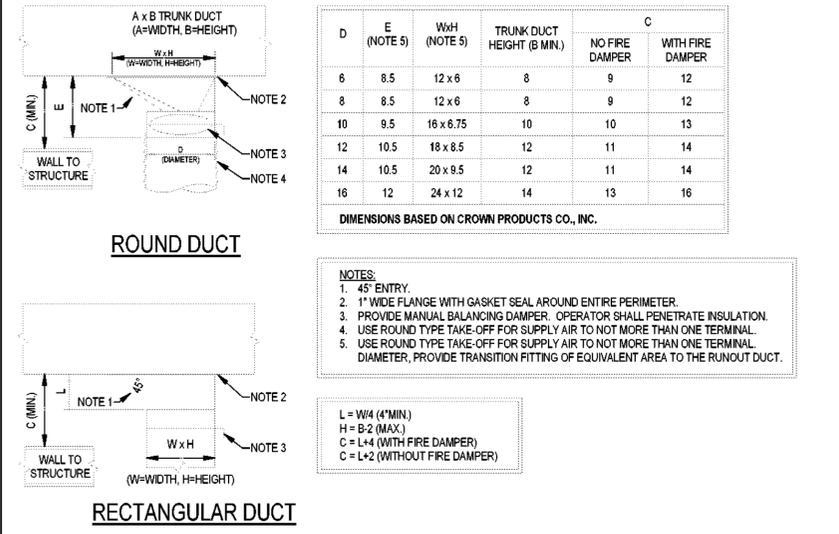


E FLEXIBLE DUCT CONNECTION TO SUPPLY DIFFUSER

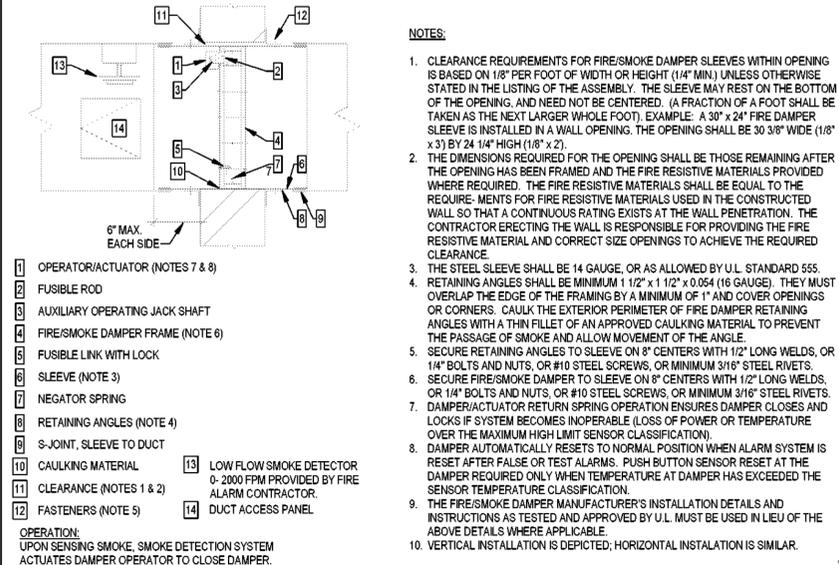


F RETURN OR EXHAUST CEILING GRILLE

A CONDENSATE DRAIN



B TYPICAL DUCT TAKE-OFF FITTINGS



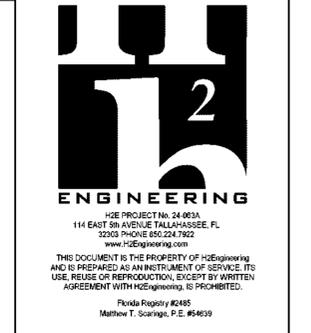
C FIRE SMOKE DAMPER INSTALLATION



ARCHITECTURE
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GRAPHICS

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**SWHS CAMPUS IMPROVEMENTS-
CLASSROOM ADDITION**

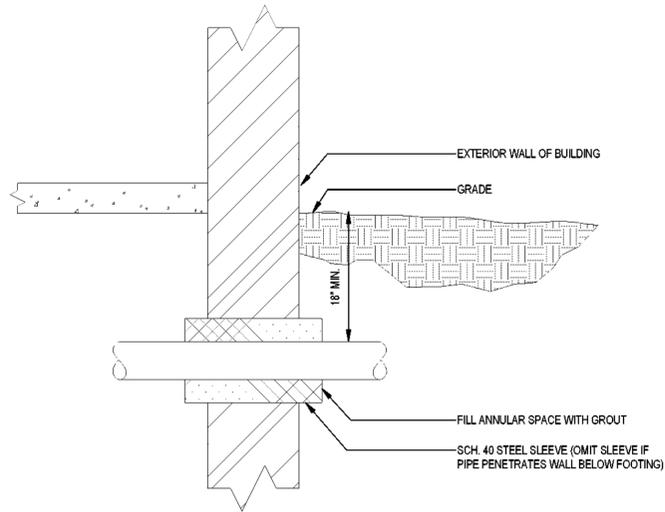
REV	DATE	DESCRIPTION

PROJECT PHASE
CONSTRUCTION DOCUMENTS

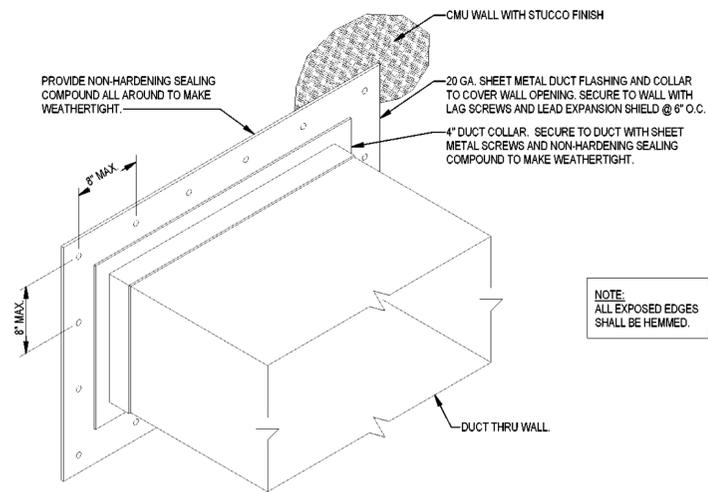
DATE 20 FEBRUARY 2026	DRAWN BY JDR
PROJECT NO 68202	CHECKED BY MTS

SHEET TITLE
DETAILS

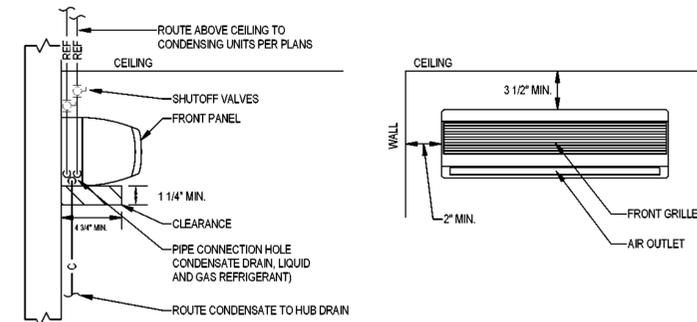
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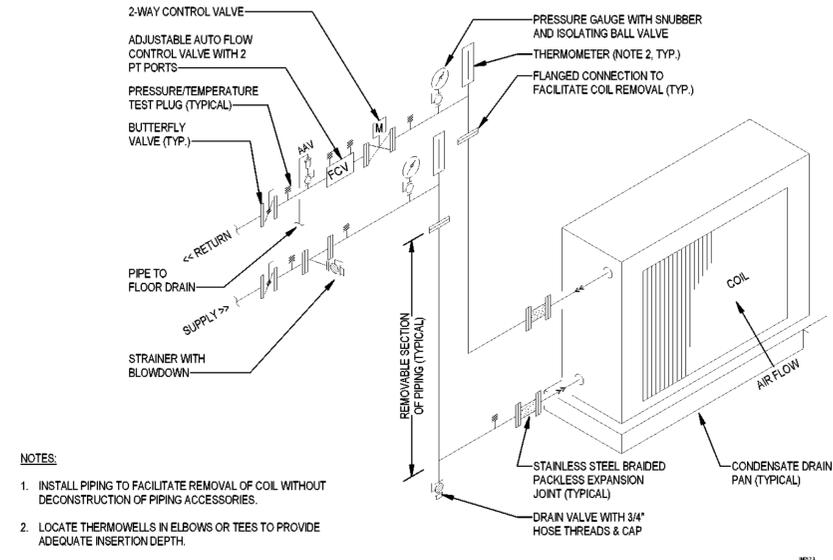
E PIPE SLEEVE AT BELOW GRADE FOUNDATION WALL PENETRATION



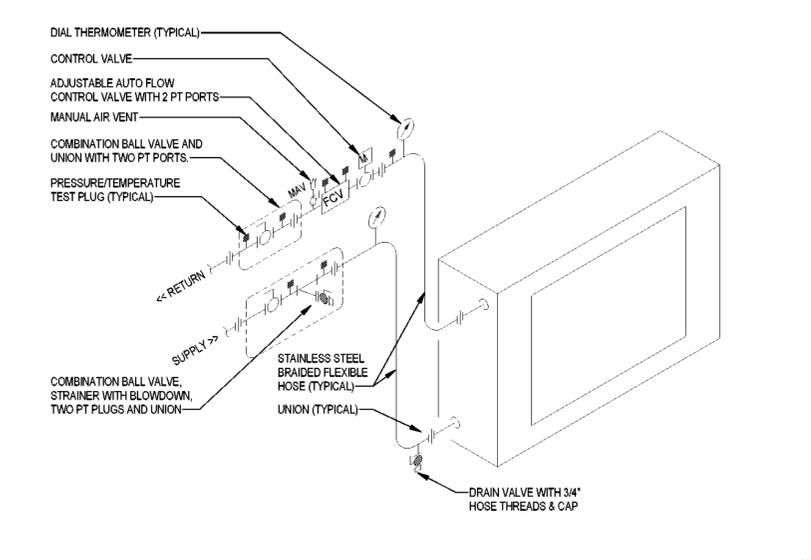
B DUCT PENETRATION THROUGH EXTERIOR WALL



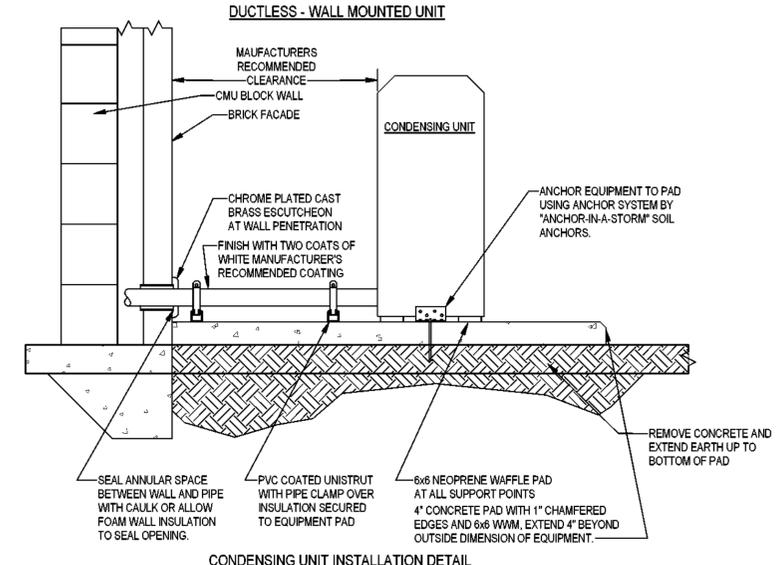
A DUCTLESS SPLIT SYSTEM



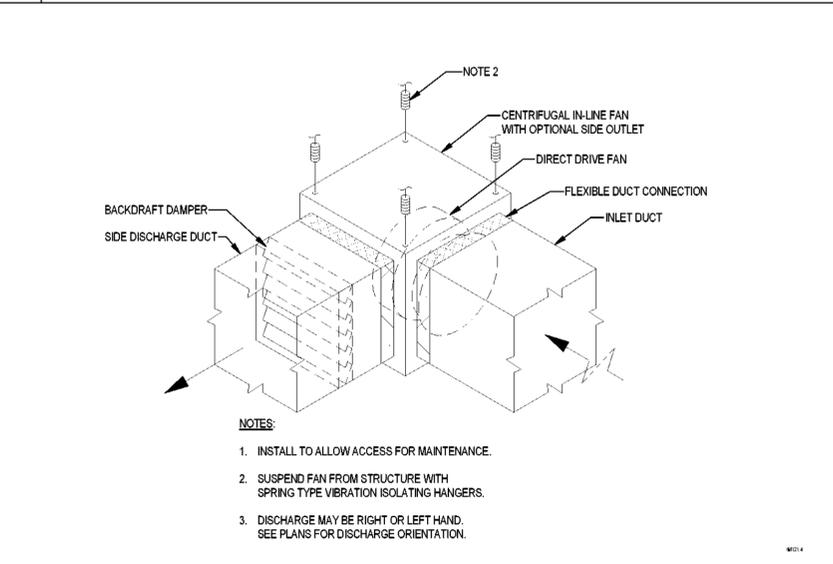
F DOAS & MAU CONDENSER COIL PIPING



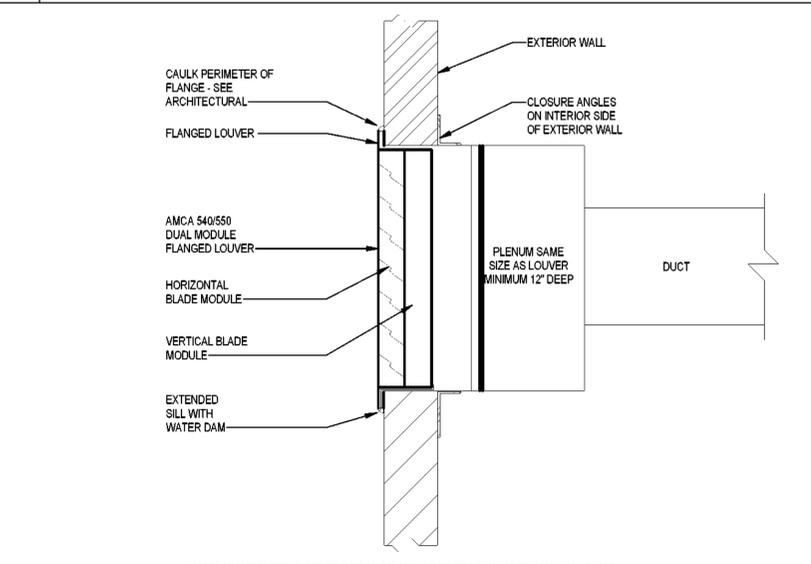
C WSHP PIPING



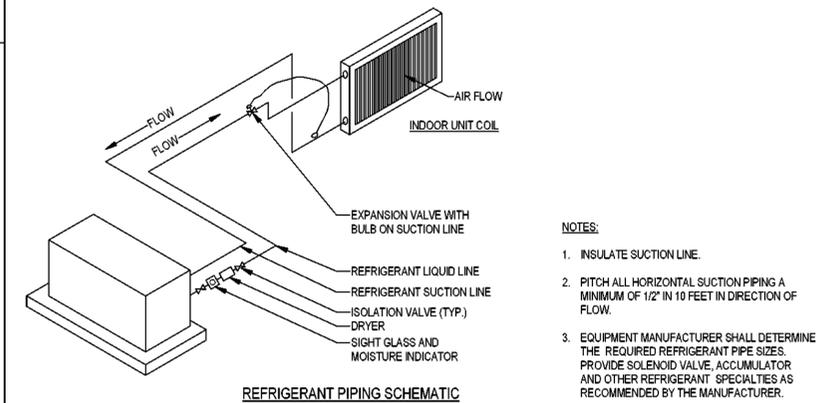
CONDENSING UNIT INSTALLATION DETAIL



G IN-LINE FAN WITH SIDE DISCHARGE



D WALL MOUNT LOUVER



REFRIGERANT PIPING SCHEMATIC

NOTE:
11" x 17" SHEETS ARE PLOTTED AT 1/2
THE SCALE NOTED ON THESE DRAWINGS

H2
ENGINEERING

H2E PROJECT No. 24-003A
114 EAST 5th AVENUE TALLAHASSEE, FL
32303 PHONE 850-224-7922
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Florida Registry #2485
Matthew T. Sorrigio, P.E. #54639

**SWHS CAMPUS IMPROVEMENTS-
CLASSROOM ADDITION**

REV	DATE	DESCRIPTION

PROJECT PHASE
CONSTRUCTION DOCUMENTS

DATE
20 FEBRUARY 2026

PROJECT NO
68202

SHEET TITLE
DETAILS

DRAWN BY
JDR

CHECKED BY
MTS

SHEET NO
M503

REV NO