

GENERAL HVAC NOTES

- COORDINATE GRILLE LOCATIONS WITH LIGHT FIXTURES AND CEILING GRID.
- INDICATED DUCT SIZES ARE NET FREE AREA.
- ADJUST ALL AIR QUANTITIES AS SHOWN ON THE PLANS AFTER COMPLETION OF THE JOB.
- INSULATE THE SUPPLY GRILLE TOPS, RETURN AIR GRILLE FLENUMS AND EXHAUST AIR FLENUMS WITH 2 IN., 3/4 LB DENSITY FOIL BACKED INSULATION.
- FIRE AND/OR SMOKE DAMPERS ARE INDICATED ON MECHANICAL DRAWINGS. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY LOCATIONS AND FIRE RATING REQUIREMENTS WHERE ANY DUCT PASSES THROUGH A PARTITION. REFER TO ARCHITECTURAL PLANS FOR LOCATION OF ALL FIRE AND SMOKE PARTITIONS. VERIFY REQUIRED DAMPER ASSEMBLY IN ALL DUCTS PENETRATING THESE WALLS PER ALL STATE AND LOCAL CODES.
- EXTERNALLY INSULATE ALL ROUND SUPPLY AND RETURN DUCT. INTERNALLY INSULATE ALL RECTANGULAR SUPPLY AND RETURN DUCT PER MECHANICAL CODE. ATTACH THE INTERNAL INSULATION TO THE DUCT WITH APPROVED ADHESIVE AND WELDED FASTENERS.
- MECHANICAL CONTRACTOR SHALL COORDINATE ALL DUCTWORK WITH FIELD CONDITIONS AND PROVIDE ALL OFFSETS, BENDS, TRANSITIONS AND SPECIAL FITTINGS FOR A COMPLETE INSTALLATION OF THE SYSTEMS.
- USE FLANGED AND GASKETED DUCT CONSTRUCTION FOR RECTANGULAR DUCT CONVEYING AIR AT STATIC PRESSURES ABOVE 2 IN. W.G. USE LOCKED SEAM SPIRAL DUCT CONSTRUCTION FOR ROUND DUCT CONVEYING AIR AT STATIC PRESSURES ABOVE 2 IN. W.G. ALL HIGH PRESSURE DUCT CONSTRUCTION SHALL ADHERE TO SMACNA DUCT CONSTRUCTION STANDARDS (LATEST EDITION) FOR DUCT CLASSIFICATION UP TO 5 IN. W.G.
- INTERIOR OF ALL DUCT FLENUMS VISIBLE THROUGH GRILLE SHALL BE PAINTED MATTE BLACK PRIOR TO INSTALLATION.
- INTERLOCK EXHAUST FANS WITH LIGHT SWITCHES. REFER TO ELECTRICAL PLANS.
- PAINT ALL SUPPLY AND RETURN AIR GRILLES NOT SPECIFIED AS PRE-FINISHED, TO ARCHITECT'S SPECIFICATIONS UNLESS OTHERWISE SPECIFIED.
- MAINTAIN 10 FT. MINIMUM CLEARANCE BETWEEN FRESH AIR INTAKES AND ALL EXHAUST OUTLETS, GAS FLUES AND PLUMBING VENTS.
- INSTALL VOLUME CONTROL DAMPERS IN SUPPLY, RETURN, EXHAUST AND FRESH AIR BRANCH DUCT RUNS.
- REGULATING AIR SYSTEMS WITH A FAN CAPACITY GREATER THAN 2,000 NOMINAL CFM SHALL AUTOMATICALLY SHUT DOWN BY MEANS OF AN APPROVED SMOKE DETECTOR PLACED IN THE RETURN AIR STREAM PRIOR TO ANY EXHAUSTING FROM THE BUILDING OR MIXING WITH FRESH AIR MAKEUP. ALL CONTROLS SHALL BE LISTED. UPON ACTIVATION OF THE SAFETY CONTROL, THE SYSTEM SHALL NOT RESTART UNTIL THE SAFETY CONTROL IS MANUALLY RESET.
- ALL MECHANICAL INSTALLATIONS SHALL CONFORM TO THE LATEST ACCEPTABLE MECHANICAL CODE.
- SEAL ALL DUCT SEAMS WITH HARDCAST IRON GRIP 601 SEALANT SYSTEM OR AN APPROVED EQUAL. DUCT TAPE, WHETHER LISTED OR NOT, WILL NOT BE ACCEPTED.
- FABRICATE AND INSTALL ALL GALVANIZED DUCT SYSTEMS TO SMACNA DUCT CONSTRUCTION STANDARDS, LATEST EDITION, AND MECHANICAL CODE.
- SMOKE DETECTOR PROVIDED AND INSTALLED BY FIRE ALARM CONTRACTOR.
- SUPPLY AIR SYSTEMS AND RETURN AIR SYSTEMS INSTALLED IN AN ATTIC, VENTILATED CRAWL SPACE OR OTHER NON-CONDITIONED AREA SHALL BE INSULATED.
- DO NOT SCALE DIRECTLY FROM THE HVAC DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONAL INFORMATION.

HVAC KEYED NOTES

- LOCATE THERMOSTAT AS INDICATED WITH THE TOP OF THE THERMOSTAT AT 48 IN. ABOVE FINISHED FLOOR. SEAL ALL THERMOSTAT CONDUITS AT TOP AND BOTTOM OF CONDUIT. PROVIDE INSULATED BACKING FOR MOUNTING THERMOSTATS.
- RECONNECT NEW VAV BOX PIPING TO EXISTING HYDRONIC SUPPLY AND RETURN PIPING.

EXHAUST FAN SCHEDULE

MARK	MFG.	MODEL	CFM	ESP. IN W.G.	MOTOR H.P.	INLET SONES	FAN RPM	ELECTRICAL VOLT	PH	HZ	UNIT WEIGHT	REMARKS / ACCESSORIES
EF-1	GREENHECK	G-100	600	0.4	0.25	5	1199	115	1	60	54 lb	1, 2, 3, 4

REMARKS/ACCESSORIES

- PROVIDE FACTORY BACK DRAFT DAMPER.
- PROVIDE DIRECT DRIVE MOTOR WITH FAN SPEED CONTROLLER.
- INTERLOCK EXHAUST FAN WITH LIGHT SWITCH BY ELECTRICAL CONTRACTOR.
- PROVIDE FACTORY 14 INCH ROOF CURB.

AIR DISTRIBUTION SCHEDULE

MARK	CFM	NECK SIZE	MFG.	MODEL	TYPE	FINISH	FRAME	REMARKS/ACCESSORIES
A	50-100	8"Ø	TITUS	TM5	4-WAY SUPPLY	WHITE	T-BAR LAYIN	1
B	105-200	8"Ø	TITUS	TM5	4-WAY SUPPLY	WHITE	T-BAR LAYIN	1
C	225-300	10"Ø	TITUS	TM5	4-WAY SUPPLY	WHITE	T-BAR LAYIN	1
D	400	12"Ø	TITUS	TM5	4-WAY SUPPLY	WHITE	T-BAR LAYIN	1
E	200-1200	22" X 22"	TITUS	999RL	RETURN	WHITE	T-BAR LAYIN	1, 3
F	200-1200	22" X 22"	TITUS	90F	EXHAUST	WHITE	T-BAR LAYIN	2, 3

REMARKS/ACCESSORIES

- STEEL CONSTRUCTION.
- ALUMINUM CONSTRUCTION.
- NO SCORE HOLES.

VAV SCHEDULE

MARK	MFG	MODEL#	COOLING				HEATING WATER COIL						REMARKS/ACCESSORIES			
			CFM	MIN CFM	INLET DIA. (IN.)	MAX A.P.D. (IN.)	CFM	ROWS	UNIT EAT °F	LAT °F	EXT °F	LWT		GPM	WPD (FT.)	MBH
SV1-1	METALAIRE	TH	450	165	10	0.3	475	2	65	100	170	132	0.99	0.12	10.19	1, 2, 3, 4, 5, 6, 7, 8, 9
SV1-2	METALAIRE	TH	750	115	8	0.5	375	2	65	100	170	135	0.85	0.13	14.32	1, 2, 3, 4, 5, 6, 7, 8, 9
SV1-3	METALAIRE	TH	600	105	8	0.3	300	2	65	101	170	132	0.66	0.08	12.01	1, 2, 3, 4, 5, 6, 7, 8, 9
SV1-4	METALAIRE	TH	450	110	8	0.2	225	2	65	103	170	137	0.66	0.08	10.64	1, 2, 3, 4, 5, 6, 7, 8, 9
SV1-5	METALAIRE	TH	400	60	6	0.3	200	2	65	106	170	142	0.66	0.06	9.04	1, 2, 3, 4, 5, 6, 7, 8, 9
SV1-15	METALAIRE	TH	500	105	8	0.2	250	2	65	106	170	135	0.66	0.08	11.14	1, 2, 3, 4, 5, 6, 7, 8, 9
SV1-16	METALAIRE	TH	800	120	8	0.6	400	2	65	100	170	137	0.94	0.15	15.19	1, 2, 3, 4, 5, 6, 7, 8, 9
SV1-17	METALAIRE	TH	1025	165	10	0.4	600	2	65	99	170	20	1.46	0.26	22.76	1, 2, 3, 4, 5, 6, 7, 8, 9
SV1-18	METALAIRE	TH	500	105	8	0.2	400	2	65	100	170	137	0.94	0.15	15.19	1, 2, 3, 4, 5, 6, 7, 8, 9
SV1-19	METALAIRE	TH	850	165	10	0.3	630	2	65	100	170	139	1.61	0.31	23.93	1, 2, 3, 4, 5, 6, 7, 8, 9

REMARKS/ACCESSORIES

- MAX INLET VELOCITY = 2500 FT/MIN
- BOX SHALL BE SINGLE WALL AND HAVE 1-INCH FOIL FACE INTERNAL LINING.
- DDS ACTUATOR PROVIDED BY CONTROL CONTRACTOR AND FIELD MOUNTED.
- PROVIDE FACTORY INSTALLED 115/24 VOLT TRANSFORMER.
- PROVIDE HORIZONTAL HANGING KIT.
- PROVIDE AIR FLOW MEASUREMENT DEVICE.
- MECHANICAL CONTRACTOR SHALL COMPLETELY INSULATE HEATING WATER COIL BOX, EXTERNAL PIPING, AND VALVE BODIES.
- PROVIDE FACTORY DISCONNECT AND POWER FUSE.
- CONTROLS CONTRACTORS PROVIDE ALL CONTROL VALVES, MECHANICAL CONTRACTOR SHALL INSTALL ALL VALVES. ALL CONTROL VALVES SHALL BE 3-WAY VALVES.

MECHANICAL LEGEND

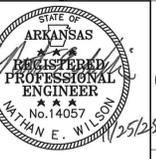
- SUPPLY DUCT SECTION
- RETURN OR EXHAUST DUCT SECTION
- CEILING SUPPLY GRILLE
- CEILING RETURN GRILLE
- CEILING EXHAUST GRILLE
- SIDEWALL SUPPLY OR RETURN GRILLE
- SEE KEYED NOTES
- SUPPLY, RETURN, OR EXHAUST DUCT
- NEW SPIRAL DUCT
- DEMO DUCT
- EXISTING SUPPLY, RETURN, OR EXHAUST DUCT
- VOLUME DAMPER
- FLEX DUCT CONNECTION MAXIMUM OF 5 FT.
- THERMOSTAT. MOUNT AT 48" A.F.F TO TOP (NUMBER DENOTES VAV BOX)

H.V.A.C. PLUMBING LEGEND

- HOT WATER SUPPLY
- HOT WATER RETURN
- EXISTING HOT WATER SUPPLY
- EXISTING HOT WATER RETURN
- BALL VALVE

NOTES:
REFER TO SHEET M1.1 FOR HVAC NOTES, LEGEND AND SCHEDULES
REFER TO SHEET M2.0 FOR HVAC DEMO PLANS
REFER TO SHEET M2.1 FOR HVAC PLANS.
REFER TO SHEET M3.1 FOR HVAC DETAILS.

HSA HSAEngineering
479 / 452 / 8922 office
7405 Ellis St.
Fort Smith, AR 72916
HSAConsultants.com



Hight Jackson
ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A RESTORATION FOR
RPS Administration Building
500 W Walnut St. Rogers AR 72756

DRAWN BY:
DCN
CHECK BY:
NEW
ISSUE DATE
11/25/2025

PROJECT NO.
2534

REVISION DATES
12/17/2025

HVAC NOTES & LEGEND

S H E E T

M1.1

COPYRIGHT 2025
THESE DRAWINGS AND SPECIFICATIONS ARE
THE EXCLUSIVE PROPERTY OF
HIGHT JACKSON ASSOCIATES P.A.
USE OR REPRODUCTION IS PROHIBITED
WITHOUT WRITTEN CONSENT

HSA JOB # 25-155