

7/20/2025 4:27:39 PM \\sawdust\Draw\Material\Game and Fish - Jonesboro\CHP\25-142 HVAC Schedule and Details\25-142 HVAC Schedule.dwg 108 Sheet Count:14

HEAT PUMP AIR HANDLING UNIT SCHEDULE																	
DESIG.	MFR/MDL	TYPE	CFM	OSA	ESP (SPEED)	FAN DIA.	DRIVE	ELECTRIC HEATING SECTION					ELECTRICAL DATA				REMARKS
								MDL	KW	MBH	# HTRS	A.P.D.	HP	MCA	MOCP	VOLT/PHASE	
AH-1	DAIKIN / AMST60DU1300	VERTICAL HEAT PUMP AIR HANDLER	1,750	110	0.7"	---	DIRECT	---	10	34.2	1	---	1	52	60	208 / 1ϕ	PROVIDE 1" FILTERS AND EXTERNAL FILTER RACK, SINGLE POINT POWER, 7-DAY PROGRAMMABLE THERMOSTAT, TXV, R-32 SENSOR AND DISCONNECT SWITCH
AH-2	DAIKIN / AMST60DU1300	VERTICAL HEAT PUMP AIR HANDLER	1,750	120	0.7"	---	DIRECT	---	10	34.2	1	---	1	52	60	208 / 1ϕ	PROVIDE 1" FILTERS AND EXTERNAL FILTER RACK, SINGLE POINT POWER, 7-DAY PROGRAMMABLE THERMOSTAT, TXV, R-32 SENSOR AND DISCONNECT SWITCH
AH-3	DAIKIN / AMST48CU1300	VERTICAL HEAT PUMP AIR HANDLER	1,400	100	0.7"	---	DIRECT	---	8	27.3	1	---	3/4	43	45	208 / 1ϕ	PROVIDE 1" FILTERS AND EXTERNAL FILTER RACK, SINGLE POINT POWER, 7-DAY PROGRAMMABLE THERMOSTAT, TXV, R-32 SENSOR AND DISCONNECT SWITCH
AH-4	DAIKIN / AMST48CU1300	VERTICAL HEAT PUMP AIR HANDLER	1,400	100	0.7"	---	DIRECT	---	8	27.3	1	---	3/4	43	45	208 / 1ϕ	PROVIDE 1" FILTERS AND EXTERNAL FILTER RACK, SINGLE POINT POWER, 7-DAY PROGRAMMABLE THERMOSTAT, TXV, R-32 SENSOR AND DISCONNECT SWITCH

OUTDOOR HEAT PUMP UNIT SCHEDULE															
DESIG.	MFR/MDL	TYPE	OSA AMBIENT	SERVES	COOLING			HEATING @47°			ELECTRICAL			REMARKS	
					T(MBH)	S(MBH)	CFM	MBH	SEER2	HSPF2	VOLTS/PHASE	MCA	MOCP		
HP-1	DAIKIN / DH4SEA6000	14 SEER AIR COOLED HEAT PUMP	98"	AH-1	54.5	41.5	1,750	34.0	14.3	8.2	208 / 3ϕ	20.5	35	R-32 REFRIGERANT, PROVIDE HAIL GUARD AND CRANK CASE HEATER.	
HP-2	DAIKIN / DH4SEA6000	14 SEER AIR COOLED HEAT PUMP	98"	AH-2	54.4	41.3	1,750	34.0	14.3	8.2	208 / 3ϕ	20.5	35	R-32 REFRIGERANT, PROVIDE HAIL GUARD AND CRANK CASE HEATER.	
HP-3	DAIKIN / DH4SEA4830	14 SEER AIR COOLED HEAT PUMP	98"	AH-3	44.0	34.0	1,400	27.0	14.3	7.8	208 / 3ϕ	16.5	25	R-32 REFRIGERANT, PROVIDE HAIL GUARD AND CRANK CASE HEATER.	
HP-4	DAIKIN / DH4SEA4830	14 SEER AIR COOLED HEAT PUMP	98"	AH-4	43.6	33.7	1,400	27.0	14.3	7.8	208 / 3ϕ	16.5	25	R-32 REFRIGERANT, PROVIDE HAIL GUARD AND CRANK CASE HEATER.	

MINI-SPLIT INDOOR A/C UNIT SCHEDULE																				
DESIG.	MFR/MDL	TYPE	LOCATION	CFM	OSA	ESP	DIMENSIONS	WEIGHT	COOLING			HEATING			REFRIGERANT PIPE SIZE		ELECTRICAL DATA			REMARKS
									CAPACITY	INDOOR	OUTDOOR	CAPACITY	INDOOR	OUTDOOR	GAS	LIQUID	MCA	MOCP	VOLT/PHASE	
MS-1	DAIKIN / FTXF12BVJU9	WALL MOUNT HEAT PUMP	IT ROOM	399 / 219 / 117	--	---	30-5/8"x9-3/16"x11-3/8"	102 LBS.	12,000 TOTAL 9,880 SENS	80" d.b. 67" w.b.	95" d.b. 75" w.b.	---	---	---	3/8"	1/4"	--	--	208v / 1ø	(SEE SPECIFICATIONS)

MINI-SPLIT CONDENSING UNIT SCHEDULE																					
DESIG.	MFR/MDL	TYPE	SERVES	DIMENSIONS	WEIGHT	COOLING			HEATING			FAN DATA			COMPRESSOR DATA			ELECTRICAL DATA			REMARKS
						CAPACITY	INDOOR	OUTDOOR	CAPACITY	INDOOR	OUTDOOR	TYPE / QUANTITY	CFM	KW	TYPE	MOTOR KW	HEATER KW	MCA	MOCP	VOLT/PHASE	
MSCU-1	DAIKIN / RXT128VJU9	AIR COOLED	MS-1	26-9/16"x12-13/16"x11-3/16"	283 LBS.	14,800 TOTAL 12,000 SENS	80" d.b. 67" w.b.	95" d.b. 75" w.b.	---	---	---	---	---	---	INVERTER 25" x 100"	---	---	14.6	15	208 V 1ø	(SEE SPECIFICATIONS)

EXHAUST FAN SCHEDULE																
DESIG.	MFR/MDL	SERVES	LOCAT.	TYPE	FAN DATA							MOTOR DATA				REMARKS
					CFM	S.P.	RPM	DRIVE	TYPE	DIA	SONES	MCA	MOP	HP	VOLT/PH	
EF-1, 2, & 3	GREENHECK / CSP-A200	TOILET RMS AND JAN RM	CEILING	CEILING MNTD.	70	.5"	825	DIRECT	CENT.	--	1.7	0.6	15	114W	120/1ϕ	PROVIDE FAN SPEED SWITCH, DISCONNECT, BACKDRAFT DAMPER, ROOF JACK AND ISOLATORS. ROOF JACK SHALL BE PAINTED TO MATCH ROOF.
EF-4	GREENHECK / SQ-160-VG	SHOP	ATTIC	IN-LINE	2,400	.5"	1,044	DIRECT	CENT.	--	9.8	12.5	20	3/4	120/1ϕ	PROVIDE FAN SPEED SWITCH, DISCONNECT, BACKDRAFT DAMPER, AND ISOLATORS.

UNIT HEATER SCHEDULE													
DESIG.	MFR/MDL	SERVES	TYPE	CFM	KW	OUTPUT	TEMP. RISE	MOTOR DATA				WEIGHT	REMARKS
								HP	FLA	VOLT	PHASE		
EH-1 THRU EH-4	QMARK / MJH-10-8	SHOP	CEILING MOUNTED UNIT HEATER	910	10KW	34,100 BTUHR	45°	1/30	48.0	208	3ϕ	27 LBS	PROVIDE WALL MOUNTED THERMOSTAT, DISCONNECT SWITCH, AND CEILING MOUNTING KIT.
EH-5, EH-6 & EH-7	QMARK / CWH110DSF	INDOOR STORAGE ROOM	ELECTRIC WALL HEATER	---	.5KW	1,760 BTUHR	45°	---	4.2	120	1ϕ	12 LBS	PROVIDE FLUSH MOUNT WALL KIT AND DISCONNECT SWITCH.

AIR DEVICE SCHEDULE							
DESIG.	MFR./MDL.	TYPE	FACE SIZE	FINISH	FREE AREA	ACCESS.	REMARKS
CD-1	TITUS TDC	LOUVER FACE CEILING SUPPLY	AS NOTED	WHITE	---	OPPOSED BLADE DAMPER	ROUND NECK
RA-1	TITUS PAR	PERF. FACE CEILING RETURN	AS NOTED	WHITE	51%	OPPOSED BLADE DAMPER	ROUND NECK
RA-2	TITUS PAR	PERF. FACE CEILING RETURN	AS NOTED	WHITE	51%	OPPOSED BLADE DAMPER	SQUARE NECK
RA-3	TITUS 90F	EGGCRATE CEILING EXHAUST	AS NOTED	WHITE	---	OPPOSED BLADE DAMPER	12"x12"x12" CORE, RECTANGULAR NECK

LOUVER SCHEDULE										
DESIG.	MFR./MDL.	TYPE	SERVES	CFM	S.P.	SIZE	VELOCITY FPM	FINISH	REMARKS	
L-1	GREENHECK / ESD-635	STATIONARY DRAINABLE BLADE	SHOP	2,400	.03"	48"W x 36"H	364	KYNAR	PROVIDE INSECT SCREEN, COLOR BY ARCHITECT.	
L-2	GREENHECK / ESD-635	STATIONARY DRAINABLE BLADE	AH-2, 3, & 4	320	.03"	18"W x 18"H	400	KYNAR	PROVIDE INSECT SCREEN, COLOR BY ARCHITECT.	
L-3	GREENHECK / ESD-635	STATIONARY DRAINABLE BLADE	AH-1	110	.03"	18"W x 12"H	344	KYNAR	PROVIDE INSECT SCREEN, COLOR BY ARCHITECT.	

VENTILATOR SCHEDULE							
DESIG.	MFR./MDL.	TYPE	SERVES	CFM	S.P.	SIZE	REMARKS
EV-1	GREENHECK / GRSI	EXHAUST VENTILATION	SHOP	500	.02"	24"	PROVIDE WITH BACKDRAFT DAMPER, BIRD SCREEN, & ROOF CURB. PROVIDE FACTORY PAINTED TO MATCH ROOF.

EQUIP SEQUENCES OF OPERATION	
PACKAGED UNITS (AH-1/HP-1, AH-2/HP-2, AH-3/HP-3, & AH-4/HP-4): THE OCCUPIED MODE SHALL BE INITIATED ACCORDING TO THE OWNER DEFINED SCHEDULE.	
OCCUPIED: THE SUPPLY FAN SHALL RUN CONTINUOUSLY. THE SPACE THERMOSTAT SHALL CYCLE MECHANICAL COOLING TO MAINTAIN THE OCCUPIED COOLING SETPOINT (75 °F ADJ.). THE OUTSIDE AIR DAMPER SHALL OPEN TO THE MINIMUM POSITION. WHEN THE SPACE TEMPERATURE IS SATISFIED, THE CONDENSING UNIT CYCLES OFF. WHEN THE SPACE THERMOSTAT'S CALLS FOR HEATING, THE REVERSING VALVE SHALL SWITCH THE HEAT PUMP TO HEATING MODE TO MAINTAIN THE OCCUPIED HEATING SETPOINT (72 °F ADJ.) ON A FURTHER CALL FOR HEAT THE HEAT PUMP SHALL ENERGIZE ELECTRIC HEAT. WHEN THE SPACE TEMPERATURE IS SATISFIED, THE ELECTRIC HEAT CYCLES OFF.	
UNOCCUPIED: THE SPACE THERMOSTAT SHALL CYCLE MECHANICAL COOLING OR HEATING TO MAINTAIN THE UNOCCUPIED TEMPERATURE SETPOINT. THE OUTDOOR AIR DAMPER SHALL REMAIN CLOSED. A SPACE OVERRIDE TIMER (2 HRS.) LOCATED AT THE THERMOSTAT SHALL START/STOP THE SYSTEM ACCORDING TO ITS NORMAL OCCUPIED MODE SEQUENCE.	
EXHAUST FANS (EF-1, EF-2, & EF-3): THE EXHAUST FAN SHALL BE CONTROLLED BY THE LIGHT SWITCH. THE EXHAUST FAN SHALL BE ON WHEN THE LIGHT SWITCH IN THE ROOM IS ON AND OFF WHEN THE SWITCH IS OFF.	
EXHAUST FAN (EF-4): THE EXHAUST FAN SHALL BE CONTROLLED BY A WALL MOUNTED SWITCH. THE MOTORIZED DAMPER AT LOUVER L-1 SHALL BE INTERLOCKED WITH THE FAN SO THAT THE DAMPER SHALL BE OPEN WHEN THE FAN IS ON AND CLOSED WHEN THE FAN IS OFF.	

HVAC GENERAL NOTES	
1. DUE TO THE SMALL SCALE OF THIS DRAWING, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, AND ACCESSORIES WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING THE WORK AND SHALL COORDINATE AND ARRANGE HIS WORK ACCORDINGLY.	
2. ROUND BRANCH DUCT RUNOUTS SHALL BE SAME SIZE AS DIFFUSER THROAT UNLESS OTHERWISE NOTED.	
3. FLEXIBLE DUCT MAY BE USED FOR FINAL CONNECTIONS TO DIFFUSERS. A MAXIMUM LENGTH OF THREE FEET (3') SHALL BE USED. A HARD 90° ELBOW MUST BE USED WHERE DUCT TURNS DOWN ABOVE DIFFUSER.	
4. ALL CEILING MOUNTED SUPPLY DIFFUSERS SHALL HAVE FOUR-WAY (4-WAY) PATTERN UNLESS OTHERWISE INDICATED.	
5. WHERE MANUAL DAMPERS ARE INSTALLED IN EXTERNALLY INSULATED DUCTWORK, PROVIDE STAND-OFF BRACKET TO PREVENT COMPRESSION OF INSULATION BY DAMPER OPERATOR HANDLE.	
6. PROVIDE TURNING VANES IN ALL 90-DEGREE MITERED ELBOWS.	
7. PROVIDE SLEEVES THROUGH WALLS AND FLOORS. SEAL EXCESS OPENING WITH WATER-PROOF SEALANT. COORDINATE LOCATIONS AND SIZES OF SLEEVES WITH GENERAL CONTRACTOR. SLEEVES SHALL PROVIDE A MAXIMUM OF 1" CLEARANCE BETWEEN DUCT OR PIPE AND SLEEVE. SEAL PENETRATION IN FIRE/SMOKE RATED WALLS AND FLOOR WITH AN APPROVED FIRE/SMOKE BLOCK SEALANT.	
8. EXTERNALLY INSULATE SUPPLY, RETURN, RELIEF, AND OUTSIDE AIR DUCTWORK UNLESS NOTED OTHERWISE.	
9. EXHAUST DUCTWORK SHALL BE UN-INSULATED, UNLESS NOTED OTHERWISE	
10. EXTERNALLY INSULATE LOW-VELOCITY ROUND RUNOUT DUCTWORK	
11. DUAL WALL DUCTWORK SHALL BE 1" THICK WITH INSULATION BETWEEN WALLS.	
12. INSULATE THE TOP OF ALL SUPPLY AIR DIFFUSERS WITH A MINIMUM OF 1/2" THICK FIBERGLASS DUCT WRAP.	
13. RUN COOLING COIL CONDENSATE DRAINS FULL SIZE TO NEAREST FLOOR OR ROOF DRAIN.	
14. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS OF FIRE AND SMOKE RATED PARTITIONS.	
15. COORDINATE LOCATION OF DUCTS AND DIFFUSERS WITH STRUCTURAL FRAMING MEMBERS. OFFSET DUCTS AS REQUIRED TO CLEAR STRUCTURAL MEMBERS.	
16. COORDINATE LOCATIONS AND ELEVATION OF DUCT RUNS WITH PLUMBING, SPRINKLER, AND ELECTRICAL CONTRACTORS.	
17. COORDINATE MAKE-UP WATER AND GAS REQUIREMENTS WITH PLUMBING CONTRACTOR.	
18. PROVIDE ACCESS DOORS FOR ALL FIRE DAMPERS. PROVIDE CEILING ACCESS DOORS FOR DAMPERS ABOVE GYPSUM BOARD CEILINGS.	
19. PAINT DUCTWORK BLACK THAT MAY BE VISIBLE ABOVE PARTIAL CEILINGS. COORDINATE PAINTING OF DUCTWORK WITH ARCHITECT.	
20. COORDINATE CEILING DIFFUSER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLAN. LOCATE ALL CEILING AIR DEVICES BETWEEN ROOF JOIST MEMBERS.	

DUCTWORK LEGEND	
	CEILING DIFFUSER (CD)
	RETURN AIR GRILLE (RA)
	EXHAUST REGISTER (ER)
	SIZE - DESIGNATION CUBIC FEET PER MINUTE
	FLEXIBLE DUCT CONNECTOR
	TURNING VANES
	SPLITTER DAMPER (TEE)
	INTERNALLY INSULATED DUCT
	EXTRACTOR
	MANUAL DAMPER
	FIRE DAMPER AND ACCESS DOOR (SMOKE DAMPER S.D. SIMILAR)
	CONDENSATE DRAIN PIPING
	OVERFLOW CONDENSATE DRAIN PIPING
	REFRIGERANT SUCTION AND LIQUID PIPES
	DIAMETER
	THERMOSTAT (WITH UNIT NUMBER)
	TOP NUMBER REFERS TO THE DETAIL NUMBER. BOTTOM NUMBER REFERS TO THE SHEET WHERE DETAIL IS SHOWN



ARKANSAS GAME AND FISH COMMISSION
JONESBORO FIELD OFFICE RECONSTRUCTION
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JONESBORO AR 72404

HVAC SCHEDULES

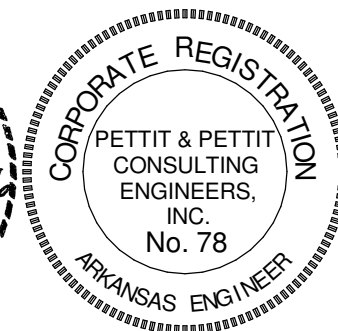
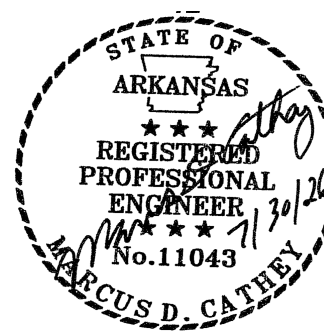
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