

LEGEND - HVAC		
ABBR	SYMBOL	DESCRIPTION
ACC		AIR COOLED CONDENSER
A/C		ABOVE CEILING
AD		ACCESS DOOR
ADJ		ADJUSTABLE
AF		ABOVE FINISHED FLOOR
AHJ		AIR HANDLING UNIT
AUTO		AUTOMATIC
BAL		BALANCING
BDD		BACKDRAFT DAMPER
B/FLY		BUTTERFLY
B/F		BELOW FLOOR
B/G		BELOW GRADE
BHP		BRAKE HORSEPOWER
		TYPE-CFM
		TYPE
CFM		CUBIC FEET PER MINUTE
CON		CONCENTRIC
		CONNECT TO EXISTING
CRAC		COMPUTER ROOM UNIT (INDOOR)
CU		CONDENSING UNIT
DB		DECIBELS
		DIRECTION OF AIRFLOW
DB		DRY BULB
DN		DOWN
DR		DRAIN
DSS		DUCTLESS SPLIT SYSTEM
DWG		DRAWING
		DUCTWORK - NEW (SIZES DENOTE CLEAR INSIDE DIMENSIONS)
		DUCTWORK - EXISTING OR DIFFUSER TO REMAIN
		DUCT - SUPPLY OR OUTSIDE AIR UP
		DUCT - RETURN OR EXHAUST UP
		DUCT - SUPPLY OR OUTSIDE AIR DOWN
		DUCT - RETURN OR EXHAUST DOWN
		DUCT TRANSITION - SQUARE TO ROUND (OR OVAL)
		DUCT MOUNTED SMOKE DETECTOR (WIRED BY DIV. 16)
(E)		EXISTING
EA		EXHAUST AIR
EAT		ENTERING AIR TEMPERATURE
ECC		ECCENTRIC
ECH		ELECTRIC CEILING HEATER
EDH		ELECTRIC DUCT HEATER
EF		EXHAUST FAN
EFF		EFFICIENCY
ESP		EXTERNAL STATIC PRESSURE
ET		EXPANSION TANK
EH		ELECTRIC UNIT HEATER
EH		ELECTRIC WALL HEATER
EUT		ENTERING WATER TEMPERATURE
F		FAHRENHEIT
FCU		FAN COIL UNIT
		FIRE DAMPER
FLR		FLOOR
F.O.		FLAT OVAL DUCT
FOB		FLAT ON BOTTOM
FOT		FLAT ON TOP
FFM		FEET PER MINUTE
FFS		FEET PER SECOND
		FIRE AND SMOKE DAMPER
FT		FEET
GA		GAUGE

LEGEND - MECHANICAL/ELECTRICAL		
ABBR	SYMBOL	DESCRIPTION
A		AMPS
FLA		FULL LOAD AMPS
HZ		HERTZ
KVA		KILOVOLT AMPS
KW		KILOWATT
MCA		MINIMUM CIRCUIT AMPACITY
MOP		MAXIMUM OVERCURRENT PROTECTION
PH		PHASE
V		VOLTVOLTAGE
W		WATTS

LEGEND - HVAC		
ABBR	SYMBOL	DESCRIPTION
GPM		GALLONS PER MINUTE
HP		HEAT PUMP
HTG		HEATING
HX		HEAT EXCHANGER
HZ		HERTZ
		HUMIDISTAT
ID		INSIDE DIMENSION
IN		INCHES
KW		KILOWATTS
KVA		KILO VOLT AMPS
LAT		LEAVING AIR TEMPERATURE
LB		POUNDS
		LIMITS OF DEMOLITION
		LINEAR SLOT DIFFUSER
MAX		MAXIMUM
MD		MANUAL DAMPER
MFR		MANUFACTURER
MIN		MINIMUM
MOD		MOTOR OPERATED DAMPER
MYD		MANUAL VOLUME DAMPER
NC		NORMALLY CLOSED
NO		NORMALLY OPENED
NOM		NOMINAL
OA		OUTSIDE AIR
OBD		OPPOSED BLADE DAMPER
OD		OUTSIDE DIMENSION
PIU		FOURERED INDUCTION UNIT
PRV		PRESSURE REDUCING VALVE
PSI		POUNDS PER SQUARE INCH
PTAC		PACKAGED TERMINAL AIR CONDITIONER
		RELOCATION
(R)		RELOCATED
RA		RETURN AIR
RAG		RETURN AIR GRILLE
RAT		RETURN AIR TRANSFER
RED		REDUCER
		REFRIGERANT SUCTION AND DISCHARGE TUBING (ROUTED TOGETHER)
RTU		ROOFTOP UNIT
SA		SUPPLY AIR
SCU		SELF CONTAINED UNIT
		SMOKE DAMPER
SEN		SENSELE
SF		SQUARE FEET
SF		SUPPLY FAN
SP		STATIC PRESSURE
SPS		STATIC PRESSURE SENSOR
SQ		SQUARE
SR		SUPPLY REGISTER
		SIDE WALL OR DUCT MOUNTED RETURN OR EXHAUST AIR REGISTER / GRILLE
TEMP		TEMPERATURE
		TEMPERATURE SENSOR
TG		TRANSFER GRILLE
TU		TERMINAL UNIT
		THERMOSTAT
TYP		TYPICAL
UNO		UNLESS NOTED OTHERWISE
VA		VALVE
VAV		VARIABLE AIR VOLUME
WB		WET BULB
WC		WATER COLUMN
WSHP		WATER SOURCE HEAT PUMP
WT		WEIGHT

DESIGN CONDITIONS	
LOCATION	MILLEDGEVILLE, GA
COOLING - SUMMER DESIGN	
OUTDOOR DESIGN DB/ COINCIDENT WB (ASHRAE 6.4.5)	96.0 °F / 75.5 °F
INDOOR DESIGN DB/ RH	75 °F / 50% ± 10%
HEATING - WINTER DESIGN	
OUTDOOR DESIGN (ASHRAE EXTREME ANNUAL MIN)	22.5 °F
INDOOR DESIGN DB	70 °F

PACKAGED ROOF TOP UNIT (RTU) A/C SCHEDULE																				
TAG	OA FLOW (CFM)	SUPPLY FAN DATA					COOLING CAPACITY				ELECTRIC HEATING		ELECTRICAL DATA				UNIT WEIGHT (LBS)	SEER	BASIS OF DESIGN	NOTES
		FLOW (CFM)	ESP (IN WC)	MOTOR (HP)	TOTAL (MBH)	SENS (MBH)	EAT		LAT (°)		CAPACITY (KW)	EAT/LAT	MCA (AMPS)	MOCP (AMPS)	POWER (VOLTI/PH)					
							DB (°F)	WB (°F)	DB (°F)	WB (°F)										
RTU-1	240	1,400	3/4	1	46.9	39.6	79.6	65.3	54.1	53.6	95	12	61.9/65	51	60	208/3	600	112	CARRIER: 48GEB	1 2 3 4 5 6 7 8 9 10 11 3
RTU-2	190	1,050	3/4	1	35.3	26.1	79.8	65.5	55.8	54.0	95	8	61.4/65	34	35	208/3	600	112	CARRIER: 48GEB	1 2 3 4 5 6 7 8 9 10 11 3

NOTES:  
 1) DENOTES STATIC PRESSURE EXTERNAL TO ENTIRE UNIT (SUPPLY & RETURN DUCT ONLY)  
 2) UNIT TO BE INSTALLED ON CONCRETE HOUSEKEEPING PAD WITH HORIZONTAL DUCT CONNECTIONS.  
 3) UNIT SHALL BE SINGLE POINT POWER CONNECTION.  
 4) PROVIDE WITH INSULATING HOT GAS RESET FOR HUMIDITY CONTROL.  
 5) PROVIDE WITH SCROLL-TYPE COMPRESSORS ONLY.  
 6) PROVIDE WITH MOTORISED OUTSIDE DAMPER INTERLOCKED WITH UNIT OPERATION.  
 7) PROVIDE WITH 1-DAY PROGRAMMABLE THERMOSTAT WITH LCD DISPLAY & AUTO-CHANGEOVER.  
 8) PROVIDE WITH DIRECT DRIVE MOTOR.  
 9) PROVIDE WITH HIGH PRESSURE CUTOFF SAFETY.  
 10) PROVIDE MANUAL RETURN AIR DAMPER.  
 11) PROVIDE UNIT WITH HALL GUARDS.  
 12) LEAVING AIR TEMPERATURE (LAT) AT UNIT DISCHARGE (DOWNSTREAM OF FAN).  
 13) PROVIDE WITH MIN. 2-STAGE COOLING.

SPLIT SYSTEM AIR HANDLING UNIT SCHEDULE (INDOOR UNIT)																	
TAG	SUPPLY CFM	O.A. CFM	EAT				LAT		OA AMB DB (°F)	SUPPLY FAN HP	EXT. S.P. (N.W.G.)	AUX. HEATING CAP. (KW)	ELECTRICAL			BASIS OF DESIGN	NOTES
			DB (°F)	WB (°F)	DB (°F)	WB (°F)	DB (°F)	WB (°F)					VOLTI/PH	MCA	MOCP		
AHJ-1	500	150	79.5	65.3	55	54	55	0.5	1	6	208/1	43.3	45	CARRIER: FJ8ANX	1 2 3 4 5 6 7 8		
AHJ-2	500	135	79.1	65.0	55	54	55	0.5	0.75	6	208/1	43.3	45	CARRIER: FJ8ANX	1 2 3 4 5 6 7 8		
AHJ-3	875	100	78.4	65.0	55	54	55	0.5	0.75	6	208/1	43.3	45	CARRIER: FJ8ANX	1 2 3 4 5 6 7 8		

NOTES:  
 1) PROVIDE AUXILIARY DRAIN PAN UNDER FAN COIL UNIT.  
 2) DISCONNECT SWITCH PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.  
 3) PROVIDE WITH HORIZ. CASSETT COIL WITH TXV.  
 4) STARTERS FOR ALL MOTORS SHALL BE FURNISHED INTEGRAL WITH UNIT.  
 5) PROVIDE WITH 1-DAY PROGRAMMABLE THERMOSTAT WITH LCD DISPLAY & AUTO-CHANGEOVER.  
 6) PROVIDE WITH FLEATED THROUGHWAY AIR FILTERS WITH FILTER RACK.  
 7) PROVIDE MOTOR OPERATED DAMPER ON OUTSIDE AIR DUCT. INTERLOCK MOD WITH UNIT OPERATION, DAMPER TO CLOSE WHEN THE UNIT IS OFF.  
 8) PROVIDE WITH EXTERNAL 120V CONDENSATE PUMP.

ROOF HOOD SCHEDULE						
TAG	CAPACITY (CFM)	SERVICE	MAX. PRESS. DROP (IN W.C.)	THROAT SIZE	BASIS OF DESIGN	NOTES
RH-1	70	EXHAUST	0.05	8"Ø	GREENHECK: GR5R	1 2
RH-2	140	EXHAUST	0.05	10"Ø	GREENHECK: GR5R	1 2
RH-3	350	EXHAUST	0.05	12"Ø	GREENHECK: GR5R	1 2
RH-4	385	OUTSIDE AIR	0.05	12"Ø	GREENHECK: GR5R	1 3

NOTES:  
 1) PROVIDE ROOF CURB. CURB SHALL PLACE HOOD OPENING A MINIMUM OF 12" ABOVE ROOF DECK.  
 2) PROVIDE WITH SMOKE SCREEN.  
 3) PROVIDE WITH INSECT SCREEN.

FAN SCHEDULE											
TAG	SERVICE	AIRFLOW (CFM)	ESP (N.W.G.)	MOTOR POWER	DRIVE	VOLTIØ	MAX. FAN RPM	MAX. SONES	TYPE OF FAN	BASIS OF DESIGN	NOTES
EF-2	105 - RR	70	0.5	45 W	DIRECT	120/1	500	4	CEILING CABINET EXHAUST FAN	GREENHECK: SP	1 2 3 4
EF-3	110 - RR	70	0.5	45 W	DIRECT	120/1	500	4	CEILING CABINET EXHAUST FAN	GREENHECK: SP	1 2 3 4
EF-4	113 - PROGRAM	350	0.5	110 HP	DIRECT	120/1	1,500	11	CABINET INLINE FAN	GREENHECK: SQ-VG	1 2 3 6

NOTES:  
 1) DISCONNECT PROVIDED BY ELECTRICAL CONTRACTOR.  
 2) PROVIDE WITH FACTORY SPEED CONTROLLER.  
 3) PROVIDE WITH BACKDRAFT DAMPER.  
 4) CONTROLLED BY ROOM OCCUPANCY SENSOR.  
 5) FAN TO RUN CONTINUOUSLY.  
 6) FAN TO BE CONTROLLED BY WALL MOUNTED THERM. SWITCH.

DIFFUSER, REGISTER & GRILLE SCHEDULE																
TAG	TYPE OF SERVICE	FACE SIZE	NECK SIZE	R/OUT SIZE	# OF SLOTS	SLOT WIDTH	MAX. ROOM NC	MAX. SP (N.W.G.)	INTEGRAL DAMPER	BASIS OF DESIGN	NECK/ R/OUT SIZE SCHEDULE				NOTES	
											6"Ø	8"Ø	10"Ø	12"Ø		
																14"Ø
A	SA	24" x 24"	NOTE 3	NOTE 1	-	-	30	0.10	N	TITUS: CM1	0 - 120 CFM	125 - 220 CFM	225 - 350 CFM	355 - 450 CFM	455 - 550 CFM	2 4 5 6 8
B	RA	24" x 24"	22" x 22"	-	-	-	30	0.10	N	TITUS: 45F	-	-	-	-	-	2 4 5
C	SA	12" x 12"	NOTE 3	NOTE 1	-	-	30	0.10	N	TITUS: CM1	0 - 120 CFM	125 - 220 CFM	225 - 350 CFM	355 - 450 CFM	455 - 600 CFM	2 4 5 6 8
D	SA	-	SEE PLANS	NOTE 1	-	-	30	0.10	Y	TITUS: 300RL	-	-	-	-	-	2 4 5
E	RA/EA	-	SEE PLANS	NOTE 1	-	-	30	0.10	N	TITUS: 350RL	-	-	-	-	-	2 4 5 9
F	SA	-	NOTE 3	NOTE 1	-	-	30	0.10	Y	TITUS: ROPN1	-	-	-	-	-	2 5
G	SA	48" x 12"	NOTE 3	NOTE 1	2	3/4"	30	0.10	N	TITUS: TBD-90	0 - 120 CFM	125 - 220 CFM	225 - 350 CFM	-	-	2 4 5 6 1

NOTES:  
 1) R/OUT SIZE SHALL BE EQUAL TO NECK SIZE, UNLESS NOTED OTHERWISE ON DRAWINGS.  
 2) FINISH FOR ALL DEVICES SHALL BE NO. 26 WHITE, UNLESS OTHERWISE INDICATED ON ARCHITECTURAL DRAWINGS.  
 3) SEE NECK/ R/OUT SIZE SCHEDULE.  
 4) CONTRACTOR SHALL BALANCE DIFFUSER/GRILLE TO AIRFLOW LISTED ON PLANS.  
 5) SEE ARCHITECTURAL PLANS FOR CEILING/WALL TYPE. PROVIDE CORRECT BORDER TYPE FOR CEILING/WALL APPLICATION.  
 6) PROVIDE WITH REMOTE BALANCING DAMPER, SIMILAR TO YOUNG REGULATOR, WHEN DIFFUSER IS ABOVE UNACCESSIBLE CEILING.  
 7) PROVIDE WITH INSULATED SUPPLY PLUMBING.  
 8) PROVIDE WITH INSULATED BACKINGS.  
 9) GRILLE TO BE INSTALLED WITH BLADES FACING UP TOWARDS STRUCTURE.

SHEET LIST HVAC	
SHEET NUMBER	SHEET NAME
M100	SCHEDULES, LEGENDS, AND NOTES - HVAC
M101	DETAILS - HVAC
M102	DEMOLITION PLAN - HVAC
M103	FLOOR PLAN - HVAC
M104	ROOF PLAN - HVAC

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NO.	DATE	ISSUANCE / REVISIONS
1	03/20/2026	ISSUANCE FOR PERMIT AND BID

SHEET TITLE  
 SCHEDULES, LEGENDS, AND NOTES - HVAC

SHEET NUMBER

M100

PROJECT: 25114 DATE: 03/20/2026 DRAWN: AB/BS