GENERAL HVAC NOTES

1. COMPLY WITH THE NFPA, IBC AND ALL LOCAL AND STATE CODES.
2. MECHANICAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND INSPECTION CERTIFICATES.
3. OMISSIONS OR MISDESCRIPTION OF DETAILS OF WORK WHICH ARE EVIDENTLY NECESSARY TO CARRY OUT THE INTENT OTHER DRAWINGS, OR WHICH ARE CUSTOMARILY PERFORMED, SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING SUCH OMISSIONS AND DETAILS OF WORK, BUT THEY SHALL BE PERFORMED AS IF FULLY AND CORRECTLY SET FORTH & DESCRIBED.
4. PORTIONS OF WALLS AND ARCHITECTURAL FEATURES MAY HAVE BEEN OMITTED FROM THIS PLAN FOR CLARITY OFMECHANICAL FEATURES. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF WALLS, FIXTURES, DIMENSIONS, etc.
5. FIELD VERIFY DIMENSIONS. COORDINATE WORK WITH OTHER TRADES TO AVOID INTERFERENCES.
6. PROVIDE ELECTRICAL CONTRACTOR WITH EXACT WIRING REQUIREMENTS. IF ELECTRICAL REQUIREMENTS VARY FROM THOSE INDICATED ON PLANS, HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ASSOCIATED ADDITIONAL COSTS.
7. LAY OUT DUCTS BASICALLY AS SHOWN. MAJOR CHANGES IN LAYOUT MAY BE MADE ONLY WITH WRITTEN CONSENT OF ARCHITECT OR ENGINEER.
8. DUCT DIMENSIONS SHOWN ARE OUTSIDE METAL AND ALLOW FOR DUCT LINER.
9. ENSURE THAT ALL HVAC EQUIPMENT IS INSTALLED SUCH THAT ACCESS PANELS AND POINTS OF SERVICE ARE ACCESSIBLE.
10. COLOR OF LOUVERS AND REGISTERS SHALL BE AS SELECTED BY ARCHITECT/OWNER.
11. ALL DUCTWORK SHALL BE CONCEALED ABOVE CEILING OR IN ATTIC SPACE AS REQUIRED, UNLESS NOTED OTHERWISE.
12. PAINT THE INSIDE OF ALL DUCTWORK WHERE BARE METAL OR OTHER THAN BLACK INSULATION IS VISIBLE THROUGH GRILLES AND REGISTERS WITH FLAT BLACK ENAMEL.
13. SEAL ALL DUCTWORK WITH SEALANT EQUAL TO UNITED MCGILL DUCT SEALANT. DUCTWORK EXPOSED TO WEATHER SHALL BE SOLVENT CLEANED AND PAINTED WITH FINISH EQUAL TO HARDCAST GALVA-GRIP PAINTED TO MATCH EXTERIOR.
14. COORDINATE ROOF PENETRATIONS WITH ROOFING CONTRACTOR. ENSURE THAT ROOFING MANUFACTURER'S WARRANTY REQUIREMENTS ARE SATISFIED.
15. MECHANICAL CONTRACTOR SHALL PROVIDE CONDENSATE DRAIN WITH TRAP FOR EACH EVAPORATOR COIL AND EMERGENCY DRAIN PAN. CONDENSATE DRAIN SHALL BE ROUTED TO FLOOR/HUB DRAIN AS INDICATED ON DRAWINGS. PAN AND DRAIN SHALL BE FULLY INSULATED. EMERGENCY DRAIN SHALL BE ROUTED TO CONSPICUOUS LOCATION. SEE PLUMBING RISERS.
16. HVAC UNITS SHALL BE FACTORY ASSEMBLED FROM SAME MANUFACTURER, EQUAL TO UNITS SPECIFIED.
17. BALANCE EACH SECTION OF DUCTWORK TO WITHIN ±5% OF THE VALUE SPECIFIED ON THE DRAWINGS. LOCK ALL DAMPERS AND SPLITTERS AS REQUIRED. PROVIDE 3 COPIES OF THE REPORT TO OWNER.
18. RECTANGULAR DUCTS SHALL BE GALVANIZED SHEET STEEL OF GAUGE AND FABRICATION AS RECOMMENDED IN THE LATEST EDITION OF SMACNA DUCT MANUALS FOR LOW PRESSURE SYSTEMS. INTERNALLY INSULATE ALL NEW DUCTWORK WITH 1" THICK 2 LB. DENSITY FLEXIBLE DUCT LINER. ROUND DUCT MAY BE INSULATED FLEX DUCT NOT TO EXCEED 8' IN LENGTH. FLEX DUCT SUPPORTED WITH WIRE SHALL HAVE 10" x 10" 22 GA. SHEETMETAL SADDLE AT EACH WIRE SUPPORT. TAKE-OFFS FROM MAIN TRUNK TO BE EXPANDED THROAT TYPE WITH EXTRACTOR.
19. MATERIALS, EQUIPMENT, AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE. DEFECTS WHICH APPEAR DURING THIS PERIOD SHALL BE CORRECTED AT THE MECHANICAL CONTRACTOR'S EXPENSE. IN ADDITION, REFRIGERATION COMPRESSOR SHALL HAVE MANUFACTURER'S FIVE YEAR WARRANTY, MINIMUM.

HVAC GENERAL NOTES

PACKAGE HEAT PUMP EQUIPMENT SCHEDULE

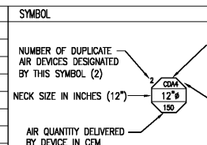
OUTDOOR UNIT	MANUFACTURER / MODEL NUMBER	AREA SERVED	NOMINAL TONS	OUTSIDE AIR CFM	TOTAL CFM	COOLING E.S.P. in. H20	COOLING TOTAL (MBh)	COOLING SENSIBLE (MBh)	COOLING LATENT (MBh)	HEATING REVERSE CYCLE @ 47° F (MBh)	HEATING AUXILIARY (KWh) MIN.	HEATING AUXILIARY (KWh) SCHEDULED	ELECTRICAL EVAP MTR. HP / SPEEDS	ELECTRICAL FLA	ELECTRICAL NO. COMPRESSORS / FULL LOAD AMPS	ELECTRICAL OUTDOOR MOTOR FLA	ELECTRICAL VOLTS/ PHASE	ELECTRICAL MCA	ELECTRICAL BREAKER	NOTES
HP-1	TRANE / TWE090D3	SEE DWG	10.0	950	3500	0.7	118.1	97.0	21.1	105.4	31.2	31.2	2.75/BELT	7.3	1 / 34.0	3.3	208/3	147	150	ALL
HP-2	TRANE / TWE090D3	SEE DWG	10.0	950	3500	0.7	118.1	97.0	21.1	105.4	31.2	31.2	2.75/BELT	7.3	1 / 34.0	3.3	208/3	147	150	ALL

NOTES:
1. PROVIDE WITH LOW AMBIENT CONTROLS.
2. SPLIT SYSTEM HEAT PUMP TO BE TRANE, LENNOX, YORK; OR APPROVED EQUAL.
3. CONTRACTOR TO SELECT ELECTRIC HEAT TO PROVIDE MINIMUM VALUES SCHEDULED. ELECTRIC HEAT SIZED FOR 90°F L.A.T. ON A 20°F OUTSIDE TEMPERATURE DAY.
4. PROVIDE AND INSTALL 7-DAY ELECTRONIC PROGRAMMABLE AUTOMATIC CHANGE-OVER THERMOSTAT AND LOCKING COVER.
5. AIR HANDLING UNIT SHALL BE PROVIDED WITH FACTORY INSTALLED CIRCUIT BREAKER(S) SUITABLE FOR USE AS DISCONNECTING MEANS PER NEC 424-19.
6. OUTDOOR UNITS SHALL BE INSTALLED W/MFR COIL GUARDS.
7. COMB STRAIGHT ALL DISTORTED HEAT EXCHANGER FINS PRIOR TO COMMISSIONING.
8. PROVIDE AND INSTALL SMOKE DETECTOR.

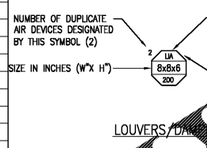
HVAC LEGEND

SYMBOL	DESCRIPTION
	SUPPLY AIR
	RETURN AIR
	ELBOW WITH TURNING VANES
	SPLITTER
	BALANCING DAMPER
	FIRE DAMPER - VERTICAL
	FIRE DAMPER - HORIZONTAL
	MOTORIZED DAMPER
T	THERMOSTAT
	WALL CAP
	EXHAUST FAN
	FLEX DUCT
	CODUCT TURNING UP/DOWN
UC	UNDERCUT DOOR
	SIDEWALL SUPPLY GRILLE/REGISTER
SD	SMOKE DAMPER
BDD	BACK DRAFT DAMPER

GRILLES/DIFFUSERS



LOUVERS/DAMPERS



HVAC ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	NTC	NOT IN CONTRACT
AHU	AIR HANDLING UNIT	OA	OUTSIDE AIR
AUX	AUXILIARY	PENE	PENETRATION
CEIL	CEILING	RA	RETURN AIR
COND	CONDENSER	RM	ROOM
DIA	DIAMETER	REG	REGISTER
EF	EXHAUST FAN	RND	ROUND
EQUIP	EQUIPMENT	SA	SUPPLY AIR
F.D.	FIRE DAMPER	SURF	SURFACE
GA	GAUGE	SYST	SYSTEM
HP	HEAT PUMP	TEMP	TEMPERATURE
HR	HOUR	TSTAT	THERMOSTAT
MAX	MAXIMUM	TYP	TYPICAL
MD	MOTORIZED DAMPER	VEL	VELOCITY
MECH	MECHANICAL	W/	WITH
MIN	MINIMUM		

EXHAUST FAN SCHEDULE

MARK	MFR / MOD	SERVES	TYPE	CFM	VOLTS/ PHASE	HP	APPROX. ESP	INTEGRAL DISCONNECT	INTEGRAL BACKDRAFT DAMPER	INTEGRAL BACK NUTS	SPEED CONTROLLER	ANODIZED ALUMINUM CONSTRUCTION	RUBBER IN SHEAR ISOLATORS
EF-1	COOK GC-542	MEN	CEILING CENTRIFUGAL	210	115/1	77w	0.375	X	X	X	X	X	X
EF-2	COOK GC-542	WOMEN	CEILING CENTRIFUGAL	210	115/1	77w	0.375	X	X	X	X	X	X
EF-3	COOK GC-542	FOOD PREP	CEILING CENTRIFUGAL	195	115/1	73w	0.375	X	X	X	X	X	X

NOTE: ALL FAN SPEED CONTROLLERS SHALL BE PREWIRED FROM THE FACTORY.

AIR DISTRIBUTION SCHEDULE

MARK	MFR.	MODEL #	MATERIAL	PANEL	FACE	MOUNT	NOTES
CDA	TITUS	TMS	STEEL	24x24	---	C	ALL
CDB	TITUS	TMS-AM	ALUM	24x24	---	C	ALL
CRAG	TITUS	50F	ALUM	24x24	---	C	ALL

NOTES:
1. PROVIDE MFR. OBD.
2. C=CEILING, B=DUCT, F=FLOOR, W=WALL
3. PROVIDED W/ MOLDED INSULATION BLANKET
4. FINISH AND COLOR TO BE AS SELECTED BY ARCHITECT.

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BLOCK 17 OF OAKDALE SURVEY, MAP BOOK 2, PAGE XX
SECTION 27, TOWNSHIP 18 SOUTH, RANGE 4 WEST
JEFFERSON COUNTY, ALABAMA

NO.	DATE:	DESCRIPTION:

HVAC GENERAL NOTES, LEGENDS, AND SCHEDULES

DATE: 11-29-18

JOB NO: 18-119

SHEET: M100

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DWG.
IF NOT ONE INCH ON THIS SHEET ADJUST SCALE ACCORDINGLY

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