GENERAL MECHANICAL NOTES

- 1. ALL WORK SHALL BE IN COMPLIANCE WITH STATE AND LOCAL CODES.
- 2. THE CONTRACTOR SHALL PAY FOR ALL FEES, PERMITS, LICENSES, ETC., NECESSARY FOR PROPER COMPLETION OF THE WORK.
- 3. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- 4. VERIFY ALL EXISTING CONDITIONS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN CONTRACT DRAWINGS AND ACTUAL CONDITIONS.
- 5. EXISTING UTILITIES TO BE ABANDONED SHALL BE PROPERLY DISCONNECTED AND CAPPED AS REQUIRED BY CODE OR LOCAL ORDINANCE.
- 6. THESE DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. ADDITIONAL DATA SHALL BE FROM THE ENGINEER THROUGH WRITTEN CLARIFICATION ONLY. VERIFY ALL EXISTING CONDITIONS, ELEVATIONS, AND DIMENSIONS BEFORE PROCEEDING WITH ANY PORTION OF ANY WORK. THE CONTRACTOR SHALL PROVIDE ALL OFFSETS AND TRANSITIONS REQUIRED TO MEET EXISTING CONDITIONS.
- 7. THE CONTRACTOR SHALL PERFORM WORK IN A SKILLED AND PROFESSIONAL MANNER.
- 8. ALL CONTRACTORS ARE RESPONSIBLE TO FIELD COORDINATE WORK SCHEDULE WITH OWNER REPRESENTATIVE.
- 9. THE CONTRACTOR SHALL WORK AND COORDINATE WITH THE OTHER TRADES.
- 10. ALL EQUIPMENT SHALL BE NEW AND IN UNDAMAGED CONDITION. ANY EQUIPMENT FOUND 20. DIFFUSER PATTERN 4-WAY UNLESS OTHERWISE INDICATED. PROVIDE FIBERGLASS DUCT DEFECTIVE SHALL BE IMMEDIATELY REMOVED FROM THE PROJECT.
- 11. PROVIDE 3 COPIES OF AN OPERATION AND MAINTENANCE MANUAL FOR ALL MAJOR 21. MECHANICAL CONTRACTOR TO REPAIR ANY DAMAGE DONE TO THE FIRE PROOFING WHILE EQUIPMENT REQUIRING SERVICE. MAJOR EQUIPMENT INCLUDES BUT IS NOT LIMITED TO COILS, FANS, AND CONTROL WIRING DIAGRAMS. EACH PIECE OF EQUIPMENT SHALL STATE THE CONTRACT DATE AND THE NAME, ADDRESS AND PHONE NUMBER FOR THE PRIME FOR SPARE PARTS. THE MANUALS SHALL CONTAIN MAINTENANCE INSTRUCTIONS REQUIRED AND ADJACENT PROPERTIES FROM DAMAGE THROUGHOUT CONSTRUCTION. FOR THE INSTALLED EQUIPMENT. MANUALS SHALL BE BOUND IN A THREE RING HARD WALK THROUGH OF THE PROJECT.
- 12. PROVIDE 8 HOURS OF OWNER TRAINING FOR THE INSTALLED EQUIPMENT. TRAINING SHALL BE HELD ONLY AFTER ALL OF THE EQUIPMENT IS INSTALLED AND PROPER OPERATION IS 24. MECHANICAL CONTRACTOR TO INCLUDE THE TEST AND BALANCE, AND ANY PERMIT FEES
- 13. CONTRACTOR SHALL SUBMIT A CERTIFIED REPORT INDICATING SYSTEM PERFORMANCE INCLUDING, BUT NOT LIMITED TO, VOLTAGE AND AMPERAGE MEASUREMENTS OF ALL EQUIPMENT GREATER THAN 1/3 H.P. AIR BALANCE MEASUREMENTS OF OUTSIDE AIR DELIVERY, AIR HANDLING UNIT SUPPLY, SUPPLY DIFFUSERS, EXHAUST AND RETURN GRILLES. AIR BALANCE SHALL BE WITHIN 10% OF DESIGN CONDITIONS. THE REPORT 26. UPON PROJECT COMPLETION, RECORD (AS-BUILT) DRAWINGS SHALL BE PROVIDED BY CERTIFICATION SHALL BE AS FOLLOWS:
 - I (name) of (company) CERTIFY THAT ALL MEASUREMENTS, FIGURES AND STATEMENTS INDICATED IN THIS REPORT WERE TAKEN BY ME OR UNDER MY SUPERVISION AND ARE ACCURATE AS OF (date). DESIGN FLOWS WERE BASED UPON PLANS DATED (xx/xx/xx).

ABBREVIATIONS

- 14. DUCT MATERIAL SHALL BE GALVANIZED OR ALUMINUM CONSTRUCTION IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARD 2005 FOR THE PRESSURE AND SEAL CLASS LISTED IN DUCTWORK/INSULATION SCHEDULE.
- 15. DUCT SIZES LISTED ON PLANS ARE THE REQUIRED CLEAR INTERIOR DIMENSIONS.
- 16. SUPPLY AND RETURN BRANCH DUCTS MAY BE INSULATED FLEX DUCT IF THE RUN IS LESS THAN 5 FEET IN LENGTH. ANY LENGTHS OVER 5 FEET SHALL BE RIGID DUCTWORK, DUCT SHALL BE THE SAME SIZE AS THE LISTED DIFFUSER THROAT UNLESS NOTED
- 17. PROVIDE VOLUME CONTROL DAMPERS WHERE INDICATED AND AT ALL TAKEOFFS, BOTH SUPPLY AND RETURN SYSTEMS, AND MAJOR DUCT RUNS. DAMPERS SHALL BE FACTORY-FABRICATED WITH ZINC-PLATED, DIE-CAST CONTROL HARDWARE. CONTROL HARDWARE SHALL INCLUDE HEAVY GAUGE DIAL AND HANDLE WITH ELEVATED PLATFORM FOR INSULATED DUCT MOUNTING.
- 18. PROVIDE TURNING VANES IN ALL RECTANGULAR ELBOWS CONFORMING TO SMACNA DUCT CONSTRUCTION STANDARD 2005 FIG. 4-2 TYPE RE-3 WITH STANDARD RADIUS. WHERE SPACE PERMITS, PROVIDE RADIUSED ELBOWS IN ACCORDANCE WITH FIGURES 4-2, TYPE
- 19. ALL RECTANGULAR MAIN TO RECTANGULAR BRANCH CONNECTIONS, BOTH CONVERGING AND DIVERGING CONFIGURATIONS, SHALL HAVE A 45 DEG. ENTRY TAP CONSTRUCTED IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARD 2005 FIG. 4-6.
- INSULATION WITH VAPOR BARRIER AS SCHEDULED UNLESS NOTED OTHERWISE.
- INSTALLING THE MECHANICAL TRADES. SEAL ALL PENETRATIONS THROUGH RATED STRUCTURES WITH UL LISTED FIRE SEAL DESIGNED FOR THE SPECIFIED APPLICATION.
- CONTRACTOR, SUBCONTRACTOR PERFORMING THE INSTALLATION, AND THE LOCAL VENDOR 22. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES TO PROTECT THE PUBLIC
- COVER BINDER. O & M MANUALS SHALL BE SUBMITTED TO THE OWNER PRIOR TO FINAL 23. THE CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION OR AS OTHERWISE REQUIRED IN THE SPECIFICATIONS.
 - IN THEIR BID.
 - 25. MECHANICAL CONTRACTOR SHALL VERIFY ALL ROOFTOP EQUIPMENT WEIGHTS, SIZES, LOCATIONS AND OPENINGS REQUIRED AND SHALL COORDINATE ANY CHANGES WITH THE ARCHITECT.
 - THE CONTRACTOR TO THE BUILDING OWNER. ALL CHANGES MADE TO EQUIPMENT, DUCTWORK, AND GENERAL DESIGN SHALL BE NOTED ON THE DRAWINGS. PROVIDE IN PDF FORMAT OR PRINTED SET AT THE OWNER'S REQUEST.

	, (881(24))	***********	
ARCH BDD BLDG BTUH C CD CFM CO CONT COP DB DET DG DIA DN DO DWG EAT EC EER EF EG	BACK DRAFT DAMPER BUILDING BRITISH THERMAL UNIT PER HOUR CENTER CEILING DIFFUSER CUBIC FEET PER MINUTE CLEAN OUT CONDENSATE CONTINUOUS COEFFICIENT OF PERFORMANCE DRY BULB DETAIL DOOR GRILLE DIGITAL INPUT Ø DIAMETER DIMENSION DOWN DIGITAL OUTPUT DRAWING EXHAUST AIR ENTERING AIR TEMPERATURE ELECTRICAL CONTRACTOR ENERGY EFFICIENCY RATIO EXHAUST FAN EXHAUST GRILLE	IN LAT LB LWT MAX MBH MCA MECH MIN MFR NTS OA OC P PC PLBG PSI QTY RA REQD REV RG RPM RTU SA SQFT SG SP SPEC SS	INCH LEAVING AIR TEMPERATURE POUND LEAVING WATER TEMPERATURE MAXIMUM 1000 BTU PER HOUR MECHANICAL CONTRACTOR MINIMUM CIRCUIT AMPS MECHANICAL MINIMUM MANUFACTURER NOT TO SCALE OUTSIDE AIR ON CENTER PUMP PLUMBING CONTRACTOR PLUMBING POUNDS PER SQUARE INCH QUANTITY RETURN AIR REQUIRED REVERSE OR REVISION RETURN AIR GRILLE REVOLUTIONS PER MINUTE ROOF TOP UNIT SUPPLY AIR SQUARE FEET SUPPLY GRILLE STATIC PRESSURE SPECIFICATIONS STAINI FSS STEFI
COND CONT	CONDENSATE CONTINUOUS	Р	PUMP
COP DB	COEFFICIENT OF PERFORMANCE DRY BULB	PC PLBG	PLUMBING CONTRACTOR PLUMBING
DG DI	DOOR GRILLE DIGITAL INPUT		
DIM DN DO DWG	DIMENSION DOWN DIGITAL OUTPUT DRAWING	REQD REV RG RPM	REQUIRED REVERSE OR REVISION RETURN AIR GRILLE REVOLUTIONS PER MINUTE
EAT EC EER EF	ENTERING AIR TEMPERATURE ELECTRICAL CONTRACTOR ENERGY EFFICIENCY RATIO EXHAUST FAN	SQFT SG SP	SQUARE FEET SUPPLY GRILLE STATIC PRESSURE
ESP EWT EXIST	EXTERNAL STATIC PRESSURE ENTERING WATER TEMPERATURE EXISTING	T&B TEMP TG TYP	TEST AND BALANCE TEMPERATURE OR TEMPORARY TRANSFER GRILLE TYPICAL
FA FPM FT	FRESH AIR FEET PER MINUTE FOOT (FEET)	V VAR VEL VFD	VOLT VARIABLE OR VARIES VELOCITY VARIABLE FREQUENCY DRIVE
GA GALV GC	GAUGE/GAGE GALVANIZED GENERAL CONTRACTOR	VTR	VENT THRU ROOF
GPM GYP	GALLONS PER MINUTE GYPSUM	W/ W/IN W/O	WITH WITHIN WITH OUT
HORIZ HP HT	HORIZONTAL HORSEPOWER HEIGHT	WB WC WT	WET BULB WATER COLUMN (INCHES OF) WEIGHT
1/0	INPUT/OUTPUT		

MECHANICAL HVAC LEGEND					
EXHAUST AIR DUCT (DOWN)			EXHAUST AIR DUCT (UP)		
RETURN AIR DUCT (DOWN)			RETURN AIR DUCT (UP)		
OUTSIDE OR SUPPLY AIR DUCT (DOWN)		\bowtie	OUTSIDE OR SUPPLY AIR DUCT (UP)		
DUCT SIZE	24x12 }		NEW DUCTWORK		
FLEX DUCT	++++++++	\	EXISTING DUCTWORK		
DEMOLITION LINETYPE		\boxtimes	SUPPLY AIR CEILING DIFFUSER		
RETURN AIR GRILLE			EXHAUST AIR GRILLE		
DIFFUSER, GRILLE, AND REGISTER CALL—OUTS	CALL-OUT CFM	<u>-</u>	SCHEDULED EQUIPMENT TAG		
MANUAL BALANCING DAMPER		.	PIPE PENETRATION THROUGH FIRE RATED WALL		
FIRE DAMPER			SMOKE DAMPER		
MOTORIZED DAMPER	<u>₩</u>		FIRE/SMOKE DAMPER		
THERMOSTAT	①	\oplus	HUMIDISTAT		
REMOTE SENSOR	S	©	CARBON DIOXIDE SENSOR		
DUCT SMOKE DETECTOR	\$	8	CARBON MONOXIDE SENSOR		

	MECHANICAL SHEET INDEX					
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CIVIL

KFC ENGINEERING

STRUCTURAL

SALAS O'BRIEN MECHANICAL / ELECTRICAL



drawn by checked by

MOORE PUBLIC SCHOOLS BOARD OF EDUCATION MOORE, OKLAHOMA



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