

ABBREVIATIONS		
A	AMP	I/O
ADD	ADDENDUM	IN
ADJ	ADJUSTABLE	
AFF	ABOVE FINISH FLOOR	LAT
AHU	AIR HANDLER UNIT	LB
AI	ANALOG INPUT	LWT
ALT	ALTERNATE	
AO	ANALOG OUTPUT	MAX
APPRX	APPROXIMATE	MBH
ARCH	ARCHITECT, ARCHITECTURAL	MC
		MCA
		MECH
		MIN
		MFR
BDD	BACK DRAFT DAMPER	
BLDG	BUILDING	NTS
BTUH	BRITISH THERMAL UNIT PER HOUR	
		OA
C	CENTER	OC
CD	CEILING DIFFUSER	
CFM	CUBIC FEET PER MINUTE	
CO	CLEAN OUT	
COND	CONDENSATE	P
CONT	CONTINUOUS	PC
COP	COEFFICIENT OF PERFORMANCE	PLBG
		PSI
DB	DRY BULB	
DET	DETAIL	QTY
DG	DOOR GRILLE	
DI	DIGITAL INPUT	
DIA/Ø	DIAMETER	RA
DIM	DIMENSION	REQD
DN	DOWN	REV
DO	DIGITAL OUTPUT	RG
DWG	DRAWING	RPM
		RTU
EA	EXHAUST AIR	SA
EAT	ENTERING AIR TEMPERATURE	SOFT
EC	ELECTRICAL CONTRACTOR	SG
EER	ENERGY EFFICIENCY RATIO	SP
EF	EXHAUST FAN	SS
EG	EXHAUST GRILLE	
ELEC	ELECTRICAL	
ERV	ENERGY RECOVERY VENTILATOR	T&B
ESP	EXTERNAL STATIC PRESSURE	TEMP
EWT	ENTERING WATER TEMPERATURE	TG
EXST	EXISTING	TYP
		V
FA	FRESH AIR	VAR
FPM	FEET PER MINUTE	VEL
FT	FOOT (FEET)	VFD
		VTR
GA	GAUGE/GAGE	W/
GALV	GALVANIZED	W/IN
GC	GENERAL CONTRACTOR	W/O
GPM	GALLONS PER MINUTE	WB
GYP	GYPSUM	WC
		WT
HORIZ	HORIZONTAL	
HP	HORSEPOWER	
HT	HEIGHT	

MECHANICAL SYMBOL LEGEND	
SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
GENERAL	
#	KEY NOTE TAG
△	REVISION TAG
▨	NEW EQUIPMENT
EQUIP-1	EQUIPMENT TAG
DUCTWORK	
↔	SUPPLY AIR DUCTWORK
↔↔	RETURN AIR AND OUTSIDE AIR DUCTWORK
↔↔↔	EXHAUST AIR DUCTWORK
	FLEXIBLE DUCTWORK
↔↔↔	SUPPLY AIR DUCTWORK THROUGH HORIZONTAL PARTITION
↔↔↔	RETURN AIR DUCTWORK THROUGH HORIZONTAL PARTITION
↔↔↔	EXHAUST AIR DUCTWORK THROUGH HORIZONTAL PARTITION
⊗	ROUND DUCTWORK
▲	FIRE DAMPER (VERTICAL)
◆	FIRE DAMPER (HORIZONTAL)
△	SMOKE DAMPER (VERTICAL)
◇	SMOKE DAMPER (HORIZONTAL)
△/S	COMBINATION FIRE & SMOKE DAMPER (VERTICAL)
◇/S	COMBINATION FIRE & SMOKE DAMPER (HORIZONTAL)
↔↔↔	MANUAL BALANCING DAMPER (SEE DAMPER SCHEDULE)
↔↔↔	MOTORIZED DAMPER (SEE DAMPER SCHEDULE)
SENSORS	
①	THERMOSTAT AND TEMPERATURE SENSOR
Ⓜ	HUMIDISTAT
Ⓢ	SMOKE DETECTOR
Ⓢ	HEAT DETECTOR
AIR DEVICES	
⊗	GRILLE SIZE TAG (REFER TO GRILLE SIZE LEGEND)
⊗	SUPPLY AIR GRILLE WITH FOUR-WAY THROW
⊗	SUPPLY AIR GRILLE WITH THREE-WAY THROW
⊗	SUPPLY AIR GRILLE WITH TWO-WAY THROW
⊗	SUPPLY AIR GRILLE WITH TWO-WAY CORNER THROW
⊗	SUPPLY AIR GRILLE WITH ONE-WAY THROW
⊗	RETURN AIR GRILLE
⊗	RETURN AIR GRILLE WITH SOUND BOOT
⊗	EXHAUST AIR GRILLE
↑	SUPPLY AIR SIDEWALL GRILLE
↓	RETURN AIR SIDEWALL GRILLE
20X12	RETURN AIR OPENING ABOVE CEILING
RENOVATIONS	
⊕	POINT OF CONNECTION FROM NEW TO EXISTING
□	ITEM TO REMAIN
⊖	ITEM TO BE REMOVED

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 DEFECTIVE SHALL BE IMMEDIATELY REMOVED FROM THE PROJECT.
11.	PROVIDE 3 COPIES OF AN OPERATION AND MAINTENANCE MANUAL FOR ALL MAJOR 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 CONTRACTOR, SUBCONTRACTOR PERFORMING THE INSTALLATION, AND THE LOCAL VENDOR FOR SPARE PARTS. THE MANUALS SHALL CONTAIN MAINTENANCE INSTRUCTIONS REQUIRED FOR THE INSTALLED EQUIPMENT. MANUALS SHALL BE BOUND IN A THREE RING HARD COVER BINDER. O & M MANUALS SHALL BE SUBMITTED TO THE OWNER PRIOR TO FINAL 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 VERIFIED.
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. WATER BALANCE MEASUREMENTS OF EACH COIL AND PUMP. 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 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).
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 OTHERWISE.
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 RADIUSSED ELBOWS IN ACCORDANCE WITH FIGURES 4-2, TYPE RE-1.
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.
20.	DIFFUSER PATTERN 4-WAY UNLESS OTHERWISE INDICATED. PROVIDE FIBERGLASS DUCT INSULATION WITH VAPOR BARRIER AS SCHEDULED UNLESS NOTED OTHERWISE.
21.	MECHANICAL CONTRACTOR TO REPAIR ANY DAMAGE DONE TO THE FIRE PROOFING WHILE INSTALLING THE MECHANICAL TRADES. SEAL ALL PENETRATIONS THROUGH RATED STRUCTURES WITH UL LISTED FIRE SEAL DESIGNED FOR THE SPECIFIED APPLICATION.
22.	THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES TO PROTECT THE PUBLIC AND ADJACENT PROPERTIES FROM DAMAGE THROUGHOUT CONSTRUCTION.
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.
24.	MECHANICAL CONTRACTOR TO INCLUDE THE TEST AND BALANCE, AND ANY PERMIT FEES 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.
26.	UPON PROJECT COMPLETION, RECORD (AS-BUILT) DRAWINGS SHALL BE PROVIDED BY 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.

MECHANICAL SHEET INDEX	
M000	MECHANICAL TITLE SHEET
MD101	MECHANICAL DEMOLITION PLAN
MD201	MECHANICAL ROOF DEMOLITION PLAN
M101	MECHANICAL PLAN
M201	MECHANICAL ROOF PLAN
M501	MECHANICAL DETAILS
M601	MECHANICAL SCHEDULES
M602	MECHANICAL SCHEDULES
M603	MECHANICAL SCHEDULES
M604	MECHANICAL SCHEDULES
M605	MECHANICAL SCHEDULES
M606	MECHANICAL SCHEDULES
M607	MECHANICAL SCHEDULES
M701	MECHANICAL SPECIFICATIONS

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CIVIL

KFC ENGINEERING

STRUCTURAL

SALAS O'BRIEN

MECHANICAL / ELECTRICAL



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DG

checked by

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date

REVISIONS

Δ	DESCRIPTION	DATE



SOUTHGATE
ELEMENTARY
KITCHEN UPGRADES
and ADDITION

sheet no:

M000

OWNERSHIP USE OF DOCUMENTS:

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