

CEDAR CREEK

CIVIL

KFC ENGINEERING

STRUCTURAL

SALAS O'BRIEN

MECHANICAL / ELECTRICAL



KF

drawn by

DG

checked by

JULY 2023

date

revisions

MOORE PUBLIC SCHOOLS
BOARD OF EDUCATION
MOORE, OKLAHOMA



CLASSROOM ADDITION
HIGHLAND WEST
JUNIOR HIGH SCHOOL

sheet no:

M601

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ELECTRIC FAN FORCED HEATER SCHEDULE												
EFH #	ROOM NO.	CFM	WALL OR CEILING	KW	MOUNTING	ELECTRICAL CHAR	AMPS	SPEEDS	CONTROL	RPM	MANUFACTURER & MODEL NUMBER	NOTES
2	VEST	300	CEILING	2	RECESSED	208 / 1	9.6	1	INT STAT	1400	BERKO FFCH-548	1-3
3	RISER	100	WALL	2	RECESSED	208 / 1	9.6	1	INT STAT	-	BERKO FRC-4020	1-4
4	VEST	300	CEILING	2	RECESSED	208 / 1	9.6	1	INT STAT	1400	BERKO FFCH-548	1-3
5	VEST	300	CEILING	2	RECESSED	208 / 1	9.6	1	INT STAT	1400	BERKO FFCH-548	1-3

NOTES:
M.C. IS RESPONSIBLE FOR PROVIDING ANY AND ALL NECESSARY DIMENSIONAL, ELECTRICAL, MECHANICAL, AND STRUCTURAL ALTERATIONS NECESSITATED BY PROVIDING ALTERNATE EQUIPMENT.
1. PROVIDE INTERNAL THERMOSTAT.
2. RECESSED MOUNTED UNIT. PROVIDE RECESSED MOUNTING KIT.
3. PROVIDE BUILT-IN DISCONNECT.
4. WALL MOUNTING HEIGHT AFF AT A MINIMUM OF 18" OR PER MANUFACTURER'S RECOMMENDATION.

GAS FURNACE SCHEDULE																
F #	TYPE	INPUT MBH	OUTPUT MBH	CFM	MIN F.A.	EXT. S.P.	HEAT EXCH. MTL	BLOWER			PILOT	VENT	FILTER MERV 8 MIN.	MANUFACTURER & MODEL NO.	NOTES	
								SIZE	DRIVE	H.P.						
1	VERT	120	115	1800	550	0.6	ALUMINIZED STL	11X11	DIRECT	1	120/1	HOT S	3"	2" TA	YORK TM9V120D20MP12C	1-4
2	VERT	100	96	1400	550	0.6	ALUMINIZED STL	11X11	DIRECT	0.75	120/1	HOT S	3"	2" TA	YORK TM9V100C16MP12C	1-3
3	VERT	120	115	1800	550	0.6	ALUMINIZED STL	11X11	DIRECT	1	120/1	HOT S	3"	2" TA	YORK TM9V120D20MP12C	1-4
4	VERT	80	77	1400	550	0.6	ALUMINIZED STL	11X11	DIRECT	0.75	120/1	HOT S	3"	2" TA	YORK TM9V080C16MP12C	1-3
5	VERT	60	58	1050	400	0.6	ALUMINIZED STL	11X11	DIRECT	0.5	120/1	HOT S	3"	2" TA	YORK TM9V060B12MP12C	1-3
6	VERT	120	115	1800	550	0.6	ALUMINIZED STL	11X11	DIRECT	1	120/1	HOT S	3"	2" TA	YORK TM9V120D20MP12C	1-4
7	VERT	120	115	1800	550	0.6	ALUMINIZED STL	11X11	DIRECT	1	120/1	HOT S	3"	2" TA	YORK TM9V120D20MP12C	1-4
8	VERT	60	58	1050	400	0.6	ALUMINIZED STL	11X11	DIRECT	0.5	120/1	HOT S	3"	2" TA	YORK TM9V060B12MP12C	1-3
9	VERT	60	58	1050	400	0.6	ALUMINIZED STL	11X11	DIRECT	0.5	120/1	HOT S	3"	2" TA	YORK TM9V060B12MP12C	1-3
10	VERT	60	58	1050	400	0.6	ALUMINIZED STL	11X11	DIRECT	0.5	120/1	HOT S	3"	2" TA	YORK TM9V060B12MP12C	1-3
11	VERT	60	58	1050	400	0.6	ALUMINIZED STL	11X11	DIRECT	0.5	120/1	HOT S	3"	2" TA	YORK TM9V060B12MP12C	1-3
12	VERT	60	58	1050	400	0.6	ALUMINIZED STL	11X11	DIRECT	0.5	120/1	HOT S	3"	2" TA	YORK TM9V060B12MP12C	1-3
13	HORIZ	60	58	1050	140	0.6	ALUMINIZED STL	11X11	DIRECT	0.5	120/1	HOT S	3"	2" TA	YORK TM9V060B12MP12C	1-3
14	HORIZ	60	58	1050	140	0.6	ALUMINIZED STL	11X11	DIRECT	0.5	120/1	HOT S	3"	2" TA	YORK TM9V060B12MP12C	1-3

NOTES:
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1. PROVIDE CONCENTRIC VENT. INSTALL PER MANUFACTURER INSTRUCTIONS. MAINTAIN MINIMUM CLEARANCES: 36" BETWEEN VENTS, 10'-0" FROM ANY FRESH AIR INTAKE.
2. PROVIDE CO₂ SENSOR. INSTALLATION BY CONTROLS CONTRACTOR. INTERLOCK CO₂ SENSOR WITH MOTORIZED DAMPER IN OUTSIDE AIR DUCT.
3. PROVIDE FURNACE WITH 2 STAGE HEATING.
4. DUCT SMOKE DETECTOR AND REMOTE TEST STATION PROVIDED BY AND INSTALLED BY E.C. REMOTE TEST STATION TO BE LOCATED IN OCCUPIED SPACE AND CONNECTION TO FIRE ALARM SYSTEM BY E.C. COORDINATE WITH E.C.

CONDENSING UNIT SCHEDULE														
CU #	CONDENSING UNIT						EVAPORATOR UNIT						NOTES	
	NOMINAL TONNAGE	ELEC. CHAR	MCA	MOCF	S.E.E.R	WEIGHT (LBS)	MANUFACTURER & MODEL NO.	CFM	MAX S.P.	BLOWER MOTOR	ELEC. CHAR	MCA		MANUFACTURER & MODEL NO.
1	5	208/1	31.4	50	15.5	295	YORK YXT60B21S	1800	0.3	-	SEE FURNACE SCHEDULE -	-	YORK XAFD60GBCN1	1-7
2	4	208/1	28	45	16.25	295	YORK YXT48B21S	1400	0.3	-	SEE FURNACE SCHEDULE -	-	YORK XAFC48FBCN1	1-7
3	5	208/1	31.4	50	15.5	295	YORK YXT60B21S	1800	0.3	-	SEE FURNACE SCHEDULE -	-	YORK XAFD60GBCN1	1-7
4	4	208/1	28	45	16	295	YORK YXT48B21S	1400	0.3	-	SEE FURNACE SCHEDULE -	-	YORK XAFC48FBCN1	1-7
5	3	208/1	21	35	15.5	265	YORK YXT36B21S	1050	0.3	-	SEE FURNACE SCHEDULE -	-	YORK XAFB36DBCN1	1-7
6	5	208/1	31.4	50	15.5	295	YORK YXT60B21S	1800	0.3	-	SEE FURNACE SCHEDULE -	-	YORK XAFD60GBCN1	1-7
7	5	208/1	31.4	50	15.5	295	YORK YXT60B21S	1800	0.3	-	SEE FURNACE SCHEDULE -	-	YORK XAFD60GBCN1	1-7
8	3	208/1	21	35	15.5	265	YORK YXT36B21S	1050	0.3	-	SEE FURNACE SCHEDULE -	-	YORK XAFB36DBCN1	1-7
9	3	208/1	21	35	15.5	265	YORK YXT36B21S	1050	0.3	-	SEE FURNACE SCHEDULE -	-	YORK XAFB36DBCN1	1-7
10	3	208/1	21	35	15.5	265	YORK YXT36B21S	1050	0.3	-	SEE FURNACE SCHEDULE -	-	YORK XAFB36DBCN1	1-7
11	3	208/1	21	35	15.5	265	YORK YXT36B21S	1050	0.3	-	SEE FURNACE SCHEDULE -	-	YORK XAFB36DBCN1	1-7
12	3	208/1	21	35	15.5	265	YORK YXT36B21S	1050	0.3	-	SEE FURNACE SCHEDULE -	-	YORK XAFB36DBCN1	1-7
13	2	208/1	15	25	16.25	200	YORK YXT24B21S	1050	0.3	-	SEE FURNACE SCHEDULE -	-	YORK XAHB36DBAN1	1-7
14	3	208/1	21	35	15.75	265	YORK YXT36B21S	1050	0.3	-	SEE FURNACE SCHEDULE -	-	YORK XAHB36DBCN1	1-7

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1. E.C. TO PROVIDE AND INSTALL POWER DISCONNECT FOR UNIT. COORDINATE WITH M.C.
2. M.C. TO INCLUDE PRE-CHARGED LINE KIT. INSULATE SUCTION LINE.
3. TWO STAGE COOLING.
4. FOR LINE LENGTH EXCEEDING 50', M.C. MUST PROVIDE FACTORY DESIGNED AND FACTORY OR FIELD FABRICATED REFRIGERANT PIPING.
5. MOUNT UNITS ON CONDENSING UNIT SUPPORTS RE: 10/MS01 FOR MORE INFORMATION.
6. INSULATE SUCTION LINE WITH 5/8" AP ARMAFLEX INSULATION OR EQUAL. SEAL ALL JOINTS WATER TIGHT TO PREVENT CONDENSATE IN THE CEILING.
7. PROVIDE UNIT WITH HAIL GUARD.

DUCTWORK/INSULATION SCHEDULE												
SYSTEM	MAX. PRES.	LOW PRESSURE			MED. PRESS. SEAL A	HIGH PRESS. SEAL A	INSULATION				NOTES	
		SEAL					INTERNAL	THICKNESS	EXTERNAL	THICKNESS		
		A	B	C								
SUPPLY AIR WITHIN 10' OF UNIT	2"	X	-	-	-	-	YES	1"	NO	-	-	
SUPPLY AIR BEYOND 10' OF UNIT	2"	X	-	-	-	-	NO	-	YES	2" FSK	-	
RETURN AIR WITHIN 10' OF UNIT	2"	-	X	-	-	-	YES	1"	NO	-	-	
RETURN AIR BEYOND 10' OF UNIT	2"	-	X	-	-	-	NO	-	YES	2" FSK	-	
OUTSIDE AIR/MIXED AIR	2"	-	X	-	-	-	NO	-	YES	3" FSK	-	
EXHAUST AIR	2"	-	X	-	-	-	NO	-	YES	2" FSK	-	

NOTES:

GRILLE, REGISTER, AND DIFFUSER SCHEDULE					
PLAN SYMBOL	DESCRIPTION	MANUFACTURER & MODEL NO.	MATERIAL	FINISH	NOISE CRITERIA
CDR-1	SQUARE FACE, ROUND NECK, 4-WAY DEFLECTION CEILING DIFFUSER, SPRING LOCK INNER CORE, FOR LAY-IN CEILING INSTALLATION.	PRICE SCD (4C)	STEEL	WHITE	-
RG-1	SQUARE PATTERN GRILLE, FIXED CORE OF 1/2"x1/2"x1/2" FABRICATED ALUMINUM SQUARES, FLAT FRAME WITH 1 1/4" MARGIN, FOR LAY-IN CEILING INSTALLATION.	PRICE 80	ALUMINUM	WHITE	-
EG-1	SQUARE PATTERN GRILLE, FIXED CORE OF 1/2"x1/2"x1/2" FABRICATED ALUMINUM SQUARES, FLAT FRAME WITH 1 1/4" MARGIN, FOR SURFACE MOUNT INSTALLATION.	PRICE 90	ALUMINUM	WHITE	-

NOTES:
SEE AIR BALANCE SCHEDULE ON M-101 THRU M-104 FOR QUANTITY AND EQUIP.
M.C. TO FIELD VERIFY CEILING TYPE FOR ALL GRD BEFORE PURCHASING EQUIPMENT. PROVIDE REQUIRED MOUNTING.

ROOF HOOD SCHEDULE							
RH #	THROAT SIZE DIMENSION (IN)	THROAT AREA (F ²)	DAMPER BDD OR MOD	CONSTRUCTION	MANUFACTURER & MODEL NO.	COMMENTS	NOTES
1	16X20	2.22	MOD	ALUMINUM	GREENHECK FGI	COLOR BY ARCHITECT	1-3
2	16X20	2.22	MOD	ALUMINUM	GREENHECK FGI	COLOR BY ARCHITECT	1-3
3	16X20	2.22	MOD	ALUMINUM	GREENHECK FGI	COLOR BY ARCHITECT	1-3
4	26X26	4.69	MOD	ALUMINUM	GREENHECK FGI	COLOR BY ARCHITECT	1-3
5	16X20	2.22	MOD	ALUMINUM	GREENHECK FGI	COLOR BY ARCHITECT	1-3
6	12X12	1	MOD	ALUMINUM	GREENHECK FGI	COLOR BY ARCHITECT	1-3
7	12X12	1	MOD	ALUMINUM	GREENHECK FGI	COLOR BY ARCHITECT	1-3

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1. M.C. TO PROVIDE ROOF HOOD WITH ALUMINUM BIRDSCREEN.
2. M.C. SHALL PROVIDE ROOF CURB. CURB INSTALLATION BY G.C.
3. M.C. SHALL PROVIDE LOW VOLTAGE MOTORIZED DAMPER.

EXHAUST FAN SCHEDULE															
EF #	LOCATION	SYSTEM	CFM	SP	FAN RPM	MOTOR H.P.	ELEC CHAR	AMPS	DAMPER BDD OR MOD	DRIVE	FAN TYPE	INTERLOCK/CONTROL	WEIGHT	MANUFACTURER & MODEL NUMBER	NOTES
1	ROOF	EXHAUST	825	0.50	1656	0.25	120/1	-	MOD	DIRECT	CENT	LIGHTS	50	GREENHECK G-120-VG	1-3
2	ROOF	EXHAUST	225	0.50	1725	0.05	120/1	-	MOD	DIRECT	CENT	F-13	30	GREENHECK G-080-VG	1-3

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1. PROVIDE ELECTRONIC SPEED CONTROL MOUNTED ABOVE ACCESSIBLE CEILING.
2. M.C. SHALL PROVIDE LOW VOLTAGE MOTORIZED DAMPER.
3. OPERATION OF DEVICE ON OCCUPIED MODE OF RTU OR SWITCH WITH LIGHTS. SEE INTERLOCK/CONTROL COLUMN FOR TYPE.

LOUVER SCHEDULE									
L #	CONNECTED TO	SIZE (IN) (WXH)	MINIMUM FREE AREA	FLANGE	CONSTRUCTION	INCLUDE MOD	MANUFACTURER AND MODEL NUMBER	COMMENTS	NOTES
1	WC DOOR	8.5X8.5	0.28	YES	STEEL	NO	AIR CONDITIONING PRODUCTS SDL	SIGHT PROOF DOOR LOUVER	1-2

NOTES:
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1. PROVIDE PAINTED KYNAR FINISH. COLOR BY ARCHITECT.
2. PROVIDE SLIP FIT COLLAR.