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. 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 RADIUSED 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.

ABBREVIATIONS

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

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)			OUTSIDE OR SUPPLY AIR DUCT (UP)
DUCT SIZE	24x12		NEW DUCTWORK
FLEX DUCT			EXISTING DUCTWORK
DEMOLITION LINETYPE			SUPPLY AIR CEILING DIFFUSER
RETURN AIR GRILLE			EXHAUST AIR GRILLE
DIFFUSER, GRILLE, AND REGISTER CALL-OUTS	CALL-OUT / CFM		SCHEDULED EQUIPMENT TAG
MANUAL BALANCING DAMPER			PIPE PENETRATION THROUGH FIRE RATED WALL
FIRE DAMPER			SMOKE DAMPER
MOTORIZED DAMPER	M		FIRE/SMOKE DAMPER
THERMOSTAT	T	H	HUMIDISTAT
REMOTE SENSOR	S	C	CARBON DIOXIDE SENSOR
DUCT SMOKE DETECTOR		CO	CARBON MONOXIDE SENSOR

MECHANICAL SHEET INDEX

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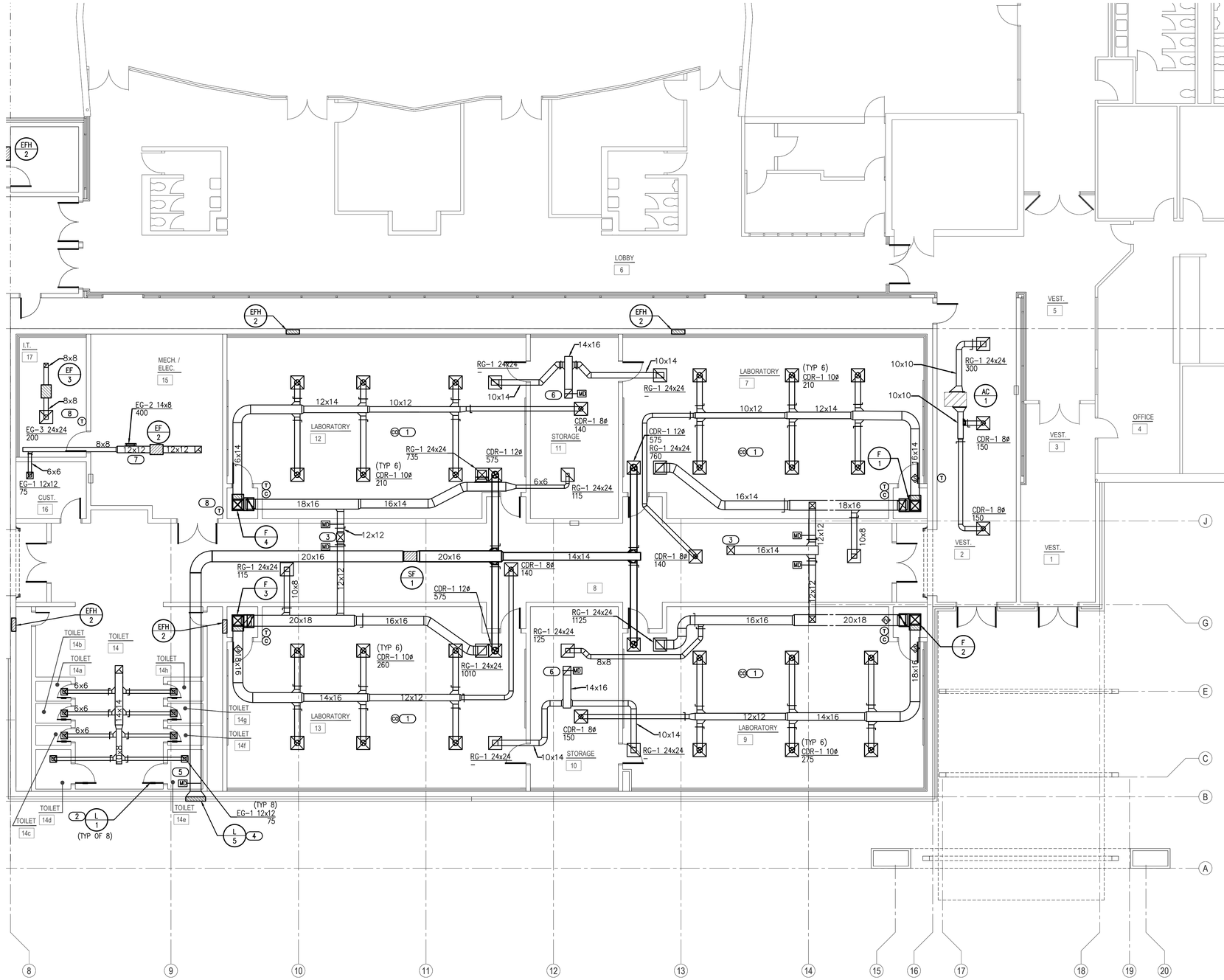


1 MECHANICAL FLOOR PLAN - AREA A

SCALE: 1/8" = 1'-0"

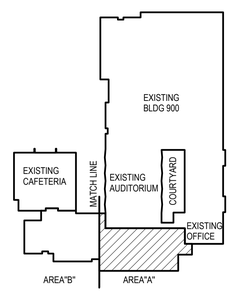
NORTH

GENERAL NOTES

1. COORDINATE INSTALLATION OF EQUIPMENT AND DUCTWORK WITH ALL TRADES.
2. COORDINATE LOCATION OF THERMOSTATS WITH E.C. ROUGH-IN BY E.C.
3. COORDINATE CARBON DIOXIDE SENSOR LOCATION WITH EARTHSMART PRIOR TO INSTALLATION.
4. M.C. SHALL PROVIDE CARBON MONOXIDE SENSORS WHERE NEEDED PER CODE FOR EXISTING EQUIPMENT THROUGHOUT THE ENTIRE BUILDING. M.C. IS RESPONSIBLE FOR SURVEYING ENTIRE BUILDING AND LOCATING FUEL BURNING HVAC EQUIPMENT FOR SENSOR LOCATIONS. COORDINATE WITH E.C FOR POWER CONNECTIONS.
5. ALL PENETRATIONS OVER 3 1/2 SQUARE INCHES OR 2 1/16 INCHES IN DIAMETER IN/OUT OF SHELTER REQUIRE SHROUD. REFER TO STRUCTURAL FOR ALL SHROUD DETAILS.
6. M.C. IS RESPONSIBLE TO ALL STRUCTURAL REQUIRED PENETRATION PROTECTION ITEMS FOR ALL MECHANICAL SYSTEMS PENETRATING THE SHELTER.
7. E.C. TO PROVIDE, LOCATE, AND INSTALL SWITCH FOR EMERGENCY VENTILATION FAN. M.C. SHALL PROVIDE CALL OUT LETTERING "EMERGENCY VENTILATION" ON PLACARD ABOVE SWITCH WITH 3/4" LETTERING FOR INSTALLATION BY G.C. COORDINATE WITH G.C. AND E.C.

KEYED NOTES

1. CARBON MONOXIDE DETECTOR TO BE INSTALLED ACCORDING TO ALL APPLICABLE CODES. DETECTOR SHALL BE INSTALLED CENTRALLY ON CEILING. ALSO INCLUDE BATTERY BACKUP IN EVENT PRIMARY POWER IS INTERRUPTED. ALARM SIGNAL SHALL BE ROUTED TO ADMINISTRATION OFFICE. COORDINATE WITH E.C. WITH PRIMARY POWER CONNECTION AND SYSTEM CONNECTION.
2. PLACE LOUVER 8" FROM BOTTOM OF DOOR.
3. DUCT UP 16X16 TO CONNECT TO THROAT OPENING OF ROOF HOOD.
4. LOUVER IS PART OF EMERGENCY VENTILATION SYSTEM. DUCT UP 20X16 TO TRANSITION INTO LOUVER.
5. MOTORIZED DAMPER TO BE 120V CONNECTED TO EMERGENCY POWER. DAMPER SHALL OPEN WHEN SUPPLY FAN TURNS ON.
6. ROOF HOOD PART OF THE EMERGENCY VENTILATION SYSTEM TO PROVIDE RELIEF AIR. MOTORIZED DAMPER SHALL OPERATE ON INVERTER. INTERLOCK WITH SF-1. DUCT DOWN TO 16X12.
7. ROUTE DUCT TO AVOID ELECTRICAL CONDUITS OR PANEL AREA CLEARANCES. COORDINATE WITH ELECTRICAL CONTRACTOR.
8. PROVIDE REVERSE ACTING THERMOSTAT TO BE SET BY OWNER.



KEYPLAN

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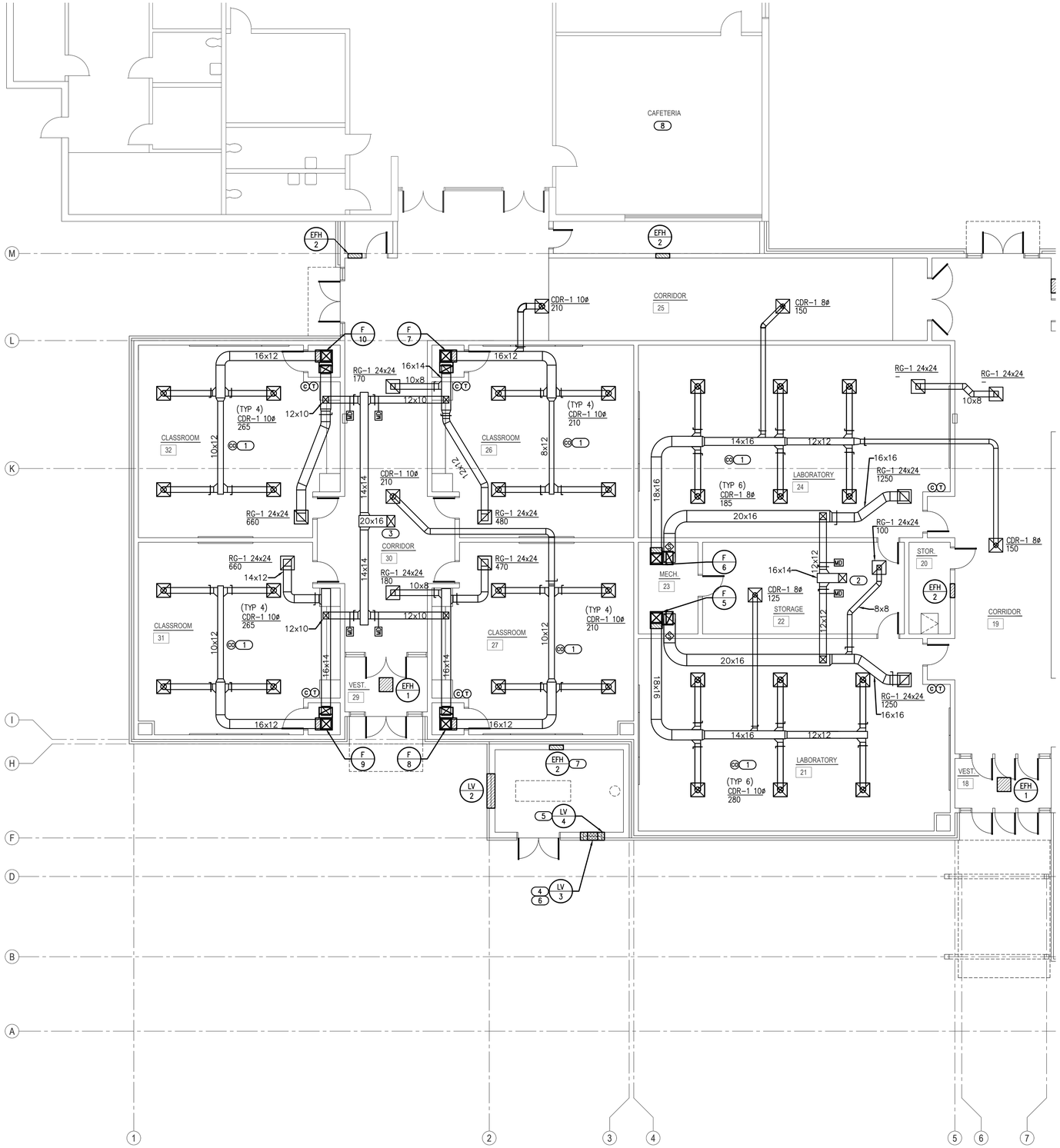


1 MECHANICAL FLOOR PLAN - AREA B

SCALE: 1/8" = 1'-0"

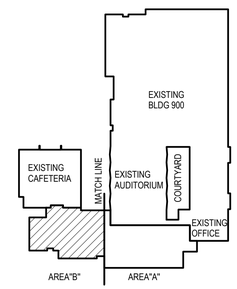
NORTH

GENERAL NOTES

1. COORDINATE INSTALLATION OF EQUIPMENT AND DUCTWORK WITH ALL TRADES.
2. COORDINATE LOCATION OF THERMOSTATS WITH E.C. ROUGH-IN BY E.C.
3. COORDINATE CARBON DIOXIDE SENSOR LOCATION WITH EARTHSMART PRIOR TO INSTALLATION.
4. M.C. SHALL PROVIDE CARBON MONOXIDE SENSORS WHERE NEEDED PER CODE FOR EXISTING EQUIPMENT THROUGHOUT THE ENTIRE BUILDING. M.C. IS RESPONSIBLE FOR SURVEYING ENTIRE BUILDING AND LOCATING FUEL BURNING HVAC EQUIPMENT FOR SENSOR LOCATIONS. COORDINATE WITH E.C FOR POWER CONNECTIONS.

KEYED NOTES

1. CARBON MONOXIDE DETECTOR TO BE INSTALLED ACCORDING TO ALL APPLICABLE CODES. DETECTOR SHALL BE INSTALLED CENTRALLY ON CEILING. ALSO INCLUDE BATTERY BACKUP IN EVENT PRIMARY POWER IS INTERRUPTED. ALARM SIGNAL SHALL BE ROUTED TO ADMINISTRATION OFFICE. COORDINATE WITH E.C. WITH PRIMARY POWER CONNECTION AND SYSTEM CONNECTION.
2. DUCT UP 16X16 TO CONNECT TO THROAT OPENING OF ROOF HOOD.
3. DUCT UP 20X16 TO CONNECT TO THROAT OPENING OF ROOF HOOD.
4. MOUNT BOTTOM OF LOUVER MINIMUM 60" ABOVE LV-4. LOUVER CONNECTION FOR ENGINE EXHAUST.
5. MOUNT BOTTOM OF LOUVER MINIMUM 18" AFF. LOUVER CONNECTION FOR RADIATOR EXHAUST.
6. PROVIDE EXHAUST DUCT TO GENERATOR RADIATOR CONNECTION. COORDINATE DUCT SIZE WITH GENERATOR MANUFACTURER DRAWINGS.
7. MOUNT HEATER MINIMUM OF 24" AFF.
8. EXISTING AIR DEVICES IN CAFETERIA ARE TO BE REUSED. CLEAN AIR DEVICES AND ENSURE IT IS IN GOOD WORKING ORDER. RECONNECT AIR DEVICES TO DUCTWORK AND ALIGN WITH NEW CEILING GRID.



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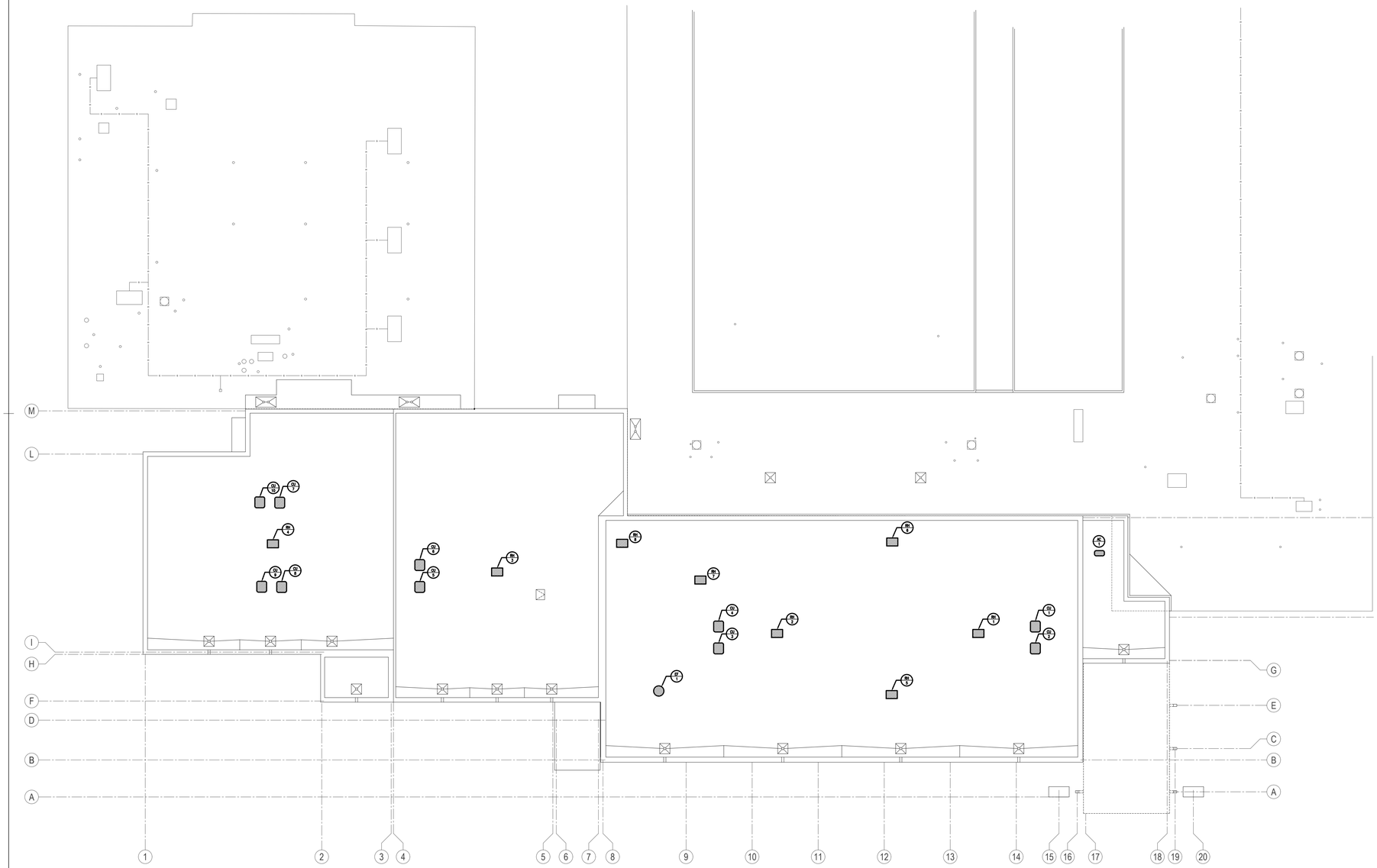
GENERAL NOTES

1. ALL ROOF TOP EQUIPMENT TO BE LOCATED A MINIMUM 10'-0" AWAY FROM ROOF EDGE.
2. MAINTAIN A MINIMUM OF 10'-0" HORIZONTAL CLEARANCE BETWEEN ALL EXHAUST OUTLETS AND ANY FRESH AIR INTAKES.
3. ALL ROOF SUPPORT SYSTEMS ARE TO BE MANUFACTURED FOR THE ROOF MATERIAL/SYSTEM TO BE INSTALLED. REFER TO ARCHITECTURAL PLANS FOR THE ROOF SYSTEM, CURB INSTALLATION TO BE WARRANTED BY ROOFING CONTRACTOR.



1 MECHANICAL ROOF PLAN

SCALE: 1/16" = 1'-0"

NORTH

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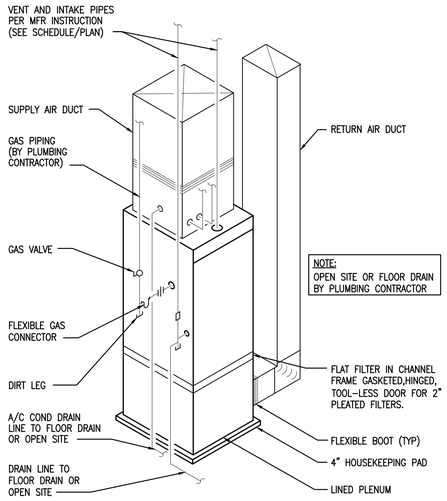
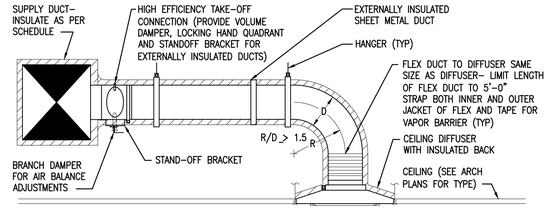
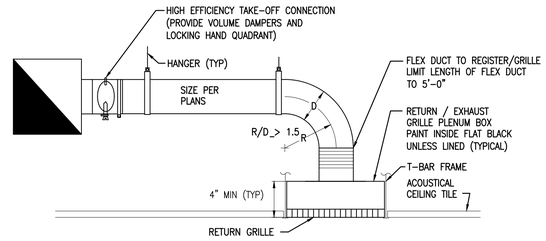


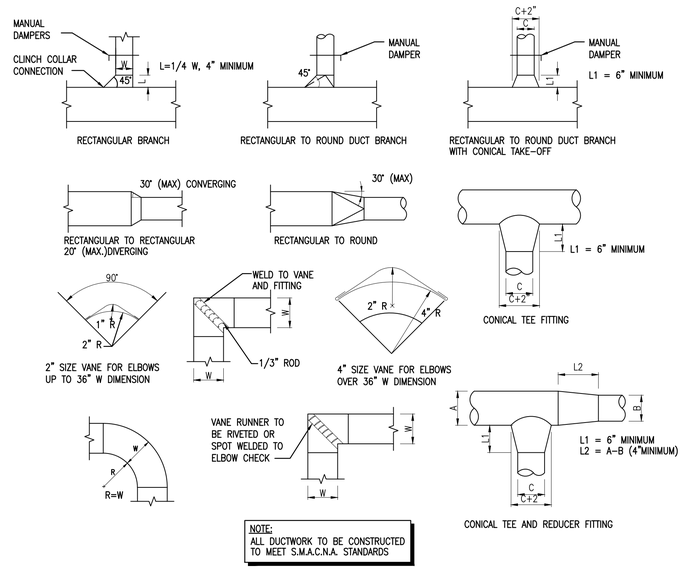
4 GAS FURNACE DETAIL - NEW CLASSROOMS
NOT TO SCALE



2 CEILING DIFFUSER DETAIL
NOT TO SCALE



3 RETURN / EXHAUST AIR GRILLE PLENUM BOX
NOT TO SCALE



1 TYPICAL DUCTWORK DETAILS
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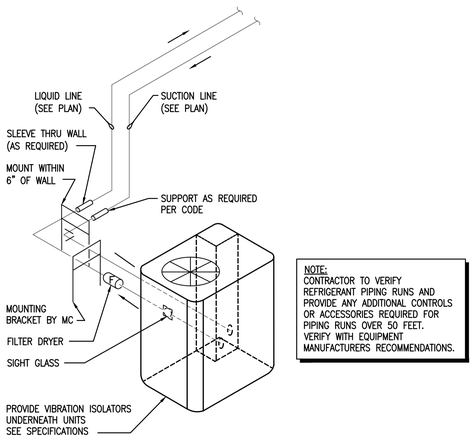
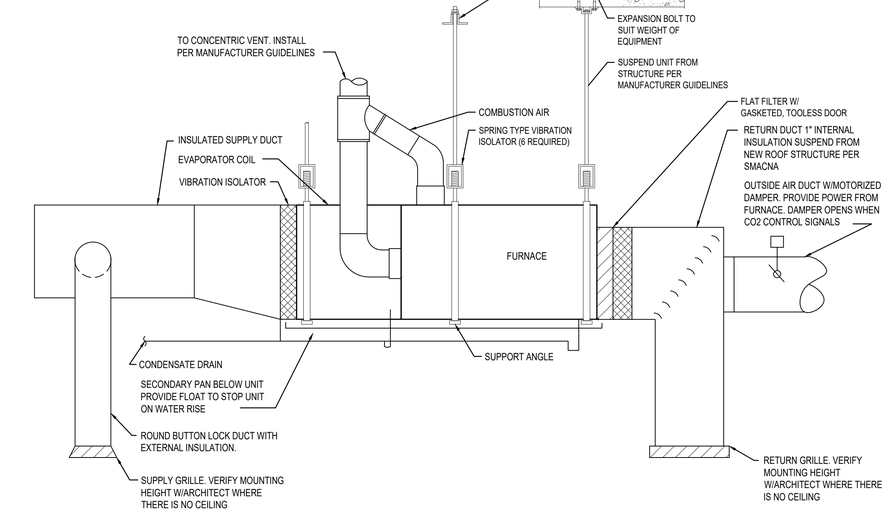
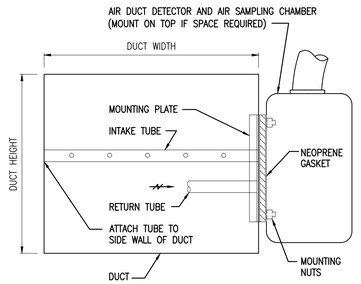


7 CONDENSING UNIT PIPING DETAIL
NOT TO SCALE



6 TYPICAL HORIZONTAL GAS FIRED FURNACE
NOT TO SCALE



NOTES:
1. SMOKE DETECTOR FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR, AND MOUNTED BY MECHANICAL CONTRACTOR.
2. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
3. PROVIDE ACCESS DOOR AT SAMPLING TUBES.
4. THE TUBE SHALL BE INSTALLED PARALLEL TO LONG DIMENSION OF DUCT.
5. PRODUCT SHALL BE UL555 OR UL555S LISTED.
6. EC SHALL TEST ACCORDING TO UL AND CODES IN THE PRESENCE OF CODE AUTHORITY.

5 SMOKE DETECTOR MOUNTING DETAIL
NOT SCALE

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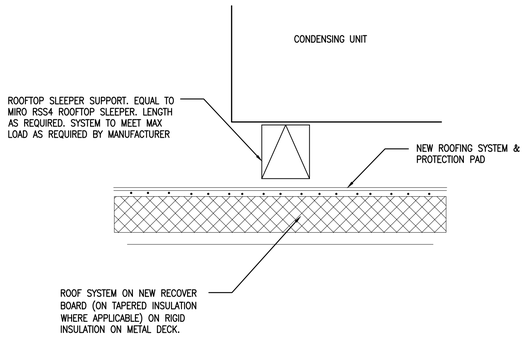

3 CONDENSING UNIT ROOF SUPPORT
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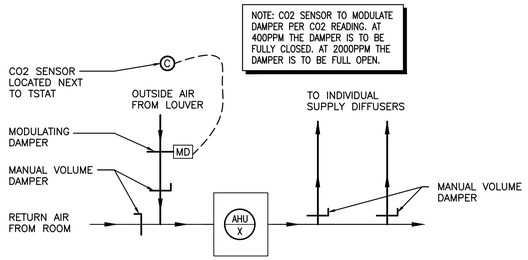
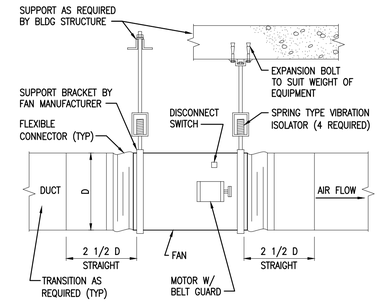
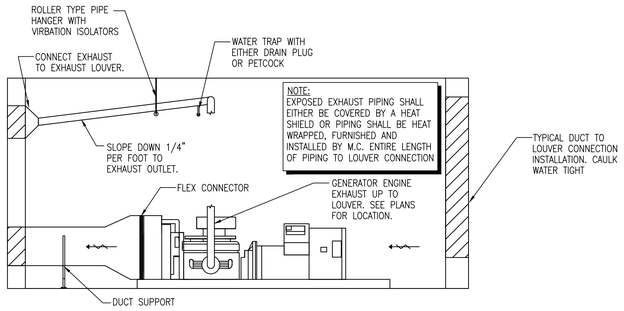


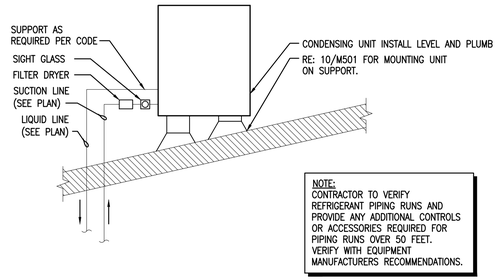
2 TYPICAL AIR BALANCING SCHEMATIC
NO SCALE



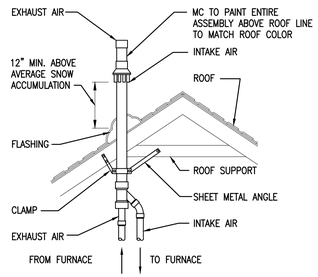
1 IN-LINE FAN MOUNTING DETAIL
NO SCALE



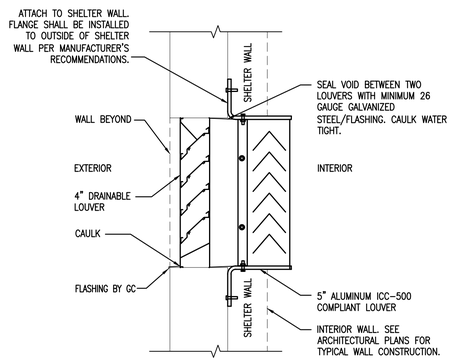
6 GENERATOR DETAIL
NOT TO SCALE



5 CONDENSING UNIT MOUNTING DETAIL
NOT TO SCALE



4 VENT TERMINATION DETAIL
NOT TO SCALE



7 LOUVER GENERATOR BUILDING
NOT TO SCALE

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CEDAR CREEK
CIVIL

KFC ENGINEERING
STRUCTURAL

SALAS O'BRIEN
MECHANICAL / ELECTRICAL

KF
drawn by

DG
checked by

APRIL 2025
date

revisions

MOORE PUBLIC SCHOOLS
BOARD OF EDUCATION
MOORE, OKLAHOMA

MOORE Public Schools
LEARNING FOR LIFE

CLASSROOM ADDITION
CENTRAL JUNIOR
HIGH SCHOOL

sheet no:

M502

Salas O'Brien
2900 S. Telephone Road, Suite 120
Moore, OK 73160
Salas O'Brien Registration: CA# 7058
Expiration Date : 6/30/2025
Salas O'Brien Project Number: 2550-00564-00

ELECTRIC FAN FORCED HEATER SCHEDULE

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

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.
5. VERIFY QUANTITY OF HEATERS WITH FLOORPLAN.

GAS FURNACE SCHEDULE

F #	TYPE	INPUT MBH	OUTPUT MBH	CFM	MIN F.A.	EXT. S.P.	HEAT EXCH. MTL	BLOWER SIZE	BLOWER DRIVE	BLOWER H.P.	BLOWER ELEC. CHAR	PILOT	VENT	FILTER MERV 8 MIN.	MANUFACTURER & MODEL NO.	NOTES
1	VERT	80	77	1400	550	0.6	ALUMINIZED STL	11X11	DIRECT	.75	120/1	HOT S	3"	2" TA	YORK TM9V080C16MP12C	1-3
2	VERT	120	115	1800	550	0.6	ALUMINIZED STL	11X11	DIRECT	1	120/1	HOT S	3"	2" TA	YORK TM9V120D20MP12C	1-4
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	.75	120/1	HOT S	3"	2" TA	YORK TM9V080C16MP12C	1-3
5	VERT	120	115	1800	550	0.6	ALUMINIZED STL	11X11	DIRECT	1	120/1	HOT S	3"	2" TA	YORK TM9V120D20MP12C	1-3
6	VERT	80	77	1400	550	0.6	ALUMINIZED STL	11X11	DIRECT	.75	120/1	HOT S	3"	2" TA	YORK TM9V080C16MP12C	1-3
7	VERT	60	58	1050	400	0.6	ALUMINIZED STL	11X11	DIRECT	.5	120/1	HOT S	3"	2" TA	YORK TM9V060B12MP12C	1-3
8	VERT	60	58	1050	400	0.6	ALUMINIZED STL	11X11	DIRECT	.5	120/1	HOT S	3"	2" TA	YORK TM9V060B12MP12C	1-3
9	VERT	60	58	1060	400	0.6	ALUMINIZED STL	11X11	DIRECT	.5	120/1	HOT S	3"	2" TA	YORK TM9V060B12MP12C	1-3
10	VERT	60	58	1060	400	0.6	ALUMINIZED STL	11X11	DIRECT	.5	120/1	HOT S	3"	2" TA	YORK TM9V060B12MP12C	1-3

NOTES: M.C. IS RESPONSIBLE FOR PROVIDING ANY AND ALL NECESSARY DIMENSION, ELECTRICAL, MECHANICAL, AND STRUCTURAL ALTERATIONS NECESSITATED BY PROVIDING ALTERNATE EQUIPMENT.

1. PROVIDE CONCENTRIC VENT. INSTALL PER MANUFACTURER INSTRUCTIONS. MAINTAIN MINIMUM CLEARANCES: 36" BETWEEN VENTS, 10'-0" FROM ANY FRESH AIR INTAKE.
2. PROVIDE CO_2 SENSOR, INSTALLATION BY CONTROLS CONTRACTOR. INTERLOCK CO_2 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 NOMINAL TONNAGE	CONDENSING UNIT ELEC. CHAR	CONDENSING UNIT MCA	CONDENSING UNIT MOCP	CONDENSING UNIT S.E.E.R	CONDENSING UNIT WEIGHT (LBS)	CONDENSING UNIT MANUFACTURER& MODEL NO.	EVAPORATOR UNIT CFM	EVAPORATOR UNIT MAX S.P.	EVAPORATOR UNIT BLOWER MOTOR	EVAPORATOR UNIT ELEC. CHAR	EVAPORATOR UNIT MCA	EVAPORATOR UNIT MANUFACTURER & MODEL NO.	NOTES
1	4	208/1	28	45	16	295	YORK YXT48B21S	1400	0.3	– SEE FURNACE SCHEDULE –			YORK XAFC48FBCN1	1-7
2	5	208/1	32	50	15.5	295	YORK YXT60B21S	1800	0.3	– SEE FURNACE SCHEDULE –			YORK XAFD60GBCN1	1-7
3	5	208/1	32	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	5	208/1	32	50	15.5	295	YORK YXT60B21S	1800	0.3	– SEE FURNACE SCHEDULE –			YORK XAFD60GBCN1	1-7
6	4	208/1	28	45	16	295	YORK YXT48B21S	1400	0.3	– SEE FURNACE SCHEDULE –			YORK XAFC48FBCN1	1-7
7	3	208/1	21	35	15.75	265	YORK YXT36B21S	1050	0.3	– SEE FURNACE SCHEDULE –			YORK XAFB36DBCN1	1-7
8	3	208/1	21	35	15.75	265	YORK YXT36B21S	1050	0.3	– SEE FURNACE SCHEDULE –			YORK XAFB36DBCN1	1-7
9	3	208/1	21	35	15.75	265	YORK YXT36B21S	1060	0.3	– SEE FURNACE SCHEDULE –			YORK XAFB36DBCN1	1-7
10	3	208/1	21	35	15.75	265	YORK YXT36B21S	1060	0.3	– SEE FURNACE SCHEDULE –			YORK XAFB36DBCN1	1-7

NOTES: M.C. IS RESPONSIBLE FOR PROVIDING ANY AND ALL NECESSARY DIMENSIONAL, ELECTRICAL, MECHANICAL, AND STRUCTURAL ALTERATIONS NECESSITATED BY PROVIDING ALTERNATE EQUIPMENT.

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/M501 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.

MINI SPLIT HEAT PUMP SCHEDULE - INDOOR & OUTDOOR UNIT

AC #	NOMINAL TON	OUTDOOR UNIT ELEC. CHAR	SEER	MCA	MOCP	COMPRESSOR TYPE	MANUFACTURER & MODEL NUMBER	INDOOR UNIT COOLING/ HEATING	CFM	MCA	MOCP	TYPE	CONDENSATE PUMP	MANUFACTURER & MODEL NUMBER	NOTES
1	1	208/1	17	14	24	INVERTER	TRANE NTXSKH12A112AA	BOTH	300	1	N/A	DUCTED	YES	TRANE NTXDKS12112AA	ALL

NOTES: M.C. IS RESPONSIBLE FOR PROVIDING ALL NECESSARY DIMENSION, ELECTRICAL, MECHANICAL, AND STRUCTURAL ALTERATIONS NECESSITATED BY PROVIDING ALTERNATE EQUIPMENT.

1. M.C. PROVIDE DISCONNECTS FOR INSTALLATION BY E.C.
2. PROVIDE AND INSTALL CONDENSATE PUMP. ROUTE CONDENSATE TO NEAREST OPEN SITE.
3. PROVIDE CONDENSER COIL HAIL GUARD.
4. M.C. SHALL PROVIDE HARD WIRED THERMOSTAT.
5. INDOOR UNIT POWERED BY OUTDOOR UNIT.

DUCTWORK/INSULATION SCHEDULE

SYSTEM	LOW PRESSURE MAX. PRES.	SEAL A	SEAL B	SEAL C	MED. PRESS MAX PRES.	MED. PRESS SEAL A	HIGH PRESS. MAX PRES.	HIGH PRESS. SEAL A	INSULATION INTERNAL	INSULATION THICKNESS	INSULATION EXTERNAL	INSULATION THICKNESS	NOTES
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 SIZES.
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 (FT^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	16X20	2.22	MOD	ALUMINUM	GREENHECK FGI	COLOR BY ARCHITECT	1-3
5	16X16	1.78	BDD	ALUMINUM	GREENHECK FGI	COLOR BY ARCHITECT	1,2
6	16X16	1.78	BDD	ALUMINUM	GREENHECK FGI	COLOR BY ARCHITECT	1,2
7	12X12	1.0	–	ALUMINUM	GREENHECK FGI	COLOR BY ARCHITECT	1,2
8	12X12	1.0	–	ALUMINUM	GREENHECK FGI	COLOR BY ARCHITECT	1,2

NOTES: M.C. IS RESPONSIBLE FOR PROVIDING ANY AND ALL NECESSARY DIMENSIONAL, ELECTRICAL, MECHANICAL, AND STRUCTURAL ALTERATIONS NECESSITATED BY PROVIDING ALTERNATE EQUIPMENT.

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.

FAN SCHEDULE

– #	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
EF-1	ROOF	EXHAUST	675	0.25	1633	0.1	120/1	2	MOD	DIRECT	CENT	LIGHTS	50	GREENHECK G-090-VG	1-4
EF-2	ELEC	EXHAUST	475	0.50	1230	0.13	120/1	–	MOD	DIRECT	CEILING	THERMOSTAT	30	GREENHECK SP-A700-VG	1,4
EF-3	IT	EXHAUST	200	0.25	1221	01	120/1	1.4	MOD	DIRECT	INLINE	THERMOSTAT	45	GREENHECK SQ-80-VG	1,2,4
SF-1	HALL	SUPPLY	2300	0.5	1027	0.75	120/1	8.8	MOD	DIRECT	INLINE	SWITCH	145	GREENHECK SQ-160-VG	4-7

NOTES: M.C. IS RESPONSIBLE FOR PROVIDING ANY AND ALL NECESSARY DIMENSIONAL, ELECTRICAL, MECHANICAL, AND STRUCTURAL ALTERATIONS NECESSITATED BY PROVIDING ALTERNATE EQUIPMENT.

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.
4. PROVIDE UNIT MOUNTED DISCONNECT.
5. FAN AND MOTORIZED DAMPER ARE PART OF EMERGENCY POWER SYSTEM. COORDINATE ALL CIRCUITS WITH E.C.
6. ALL WIRING TO FAN AND DAMPER SHALL BE BY E.C.
7. PROVIDE 120V DAMPER.

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
2	GEN ENCLOSURE	60X48	9.6	YES	ALUMINUM	–	GREENHECK AFL-501	5" FEMA RATED LOUVER – PROVIDE ADDITIONAL DRAINABLE LOUVER (GREENHECK ESD-403)	1-2
3	GEN ENCLOSURE	18X18	1.55	YES	ALUMINUM	–	GREENHECK AFL-501	5" FEMA RATED LOUVER – PROVIDE ADDITIONAL DRAINABLE LOUVER (GREENHECK ESD-403)	1-2
4	GEN ENCLOSURE	42X36	4.75	YES	ALUMINUM	–	GREENHECK AFL-501	5" FEMA RATED LOUVER – PROVIDE ADDITIONAL DRAINABLE LOUVER (GREENHECK ESD-403)	1-2
5	SF-1	36X24	2.47	YES	ALUMINUM	–	GREENHECK AFL-501	5" FEMA RATED LOUVER – PROVIDE ADDITIONAL DRAINABLE LOUVER (GREENHECK ESD-403)	1-2

NOTES: M.C. IS RESPONSIBLE FOR PROVIDING ANY AND ALL NECESSARY DIMENSIONAL, ELECTRICAL, MECHANICAL, AND STRUCTURAL ALTERATIONS NECESSITATED BY PROVIDING ALTERNATE EQUIPMENT.

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

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