



GENERAL MECHANICAL NOTES

- ALL WORK SHALL BE IN COMPLIANCE WITH STATE AND LOCAL CODES.
- THE CONTRACTOR SHALL PAY FOR ALL FEES, PERMITS, LICENSES, ETC., NECESSARY FOR PROPER COMPLETION OF THE WORK.
- INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- VERIFY ALL EXISTING CONDITIONS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN CONTRACT DRAWINGS AND ACTUAL CONDITIONS.
- EXISTING UTILITIES TO BE ABANDONED SHALL BE PROPERLY DISCONNECTED AND CAPPED AS REQUIRED BY CODE OR LOCAL ORDINANCE.
- 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.
- THE CONTRACTOR SHALL PERFORM WORK IN A SKILLED AND PROFESSIONAL MANNER.
- ALL CONTRACTORS ARE RESPONSIBLE TO FIELD COORDINATE WORK SCHEDULE WITH OWNER REPRESENTATIVE.
- THE CONTRACTOR SHALL WORK AND COORDINATE WITH THE OTHER TRADES.
- ALL EQUIPMENT SHALL BE NEW AND IN UNDAMAGED CONDITION. ANY EQUIPMENT FOUND DEFECTIVE SHALL BE IMMEDIATELY REMOVED FROM THE PROJECT.
- 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.
- 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.
- 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).
- 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.
- DUCT SIZES LISTED ON PLANS ARE THE REQUIRED CLEAR INTERIOR DIMENSIONS.
- 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.
- 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.
- 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 RADIUS ELBOWS IN ACCORDANCE WITH FIGURES 4-2, TYPE RE-1.
- 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.
- DIFFUSER PATTERN 4-WAY UNLESS OTHERWISE INDICATED. PROVIDE FIBERGLASS DUCT INSULATION WITH VAPOR BARRIER AS SCHEDULED UNLESS NOTED OTHERWISE.
- 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.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES TO PROTECT THE PUBLIC AND ADJACENT PROPERTIES FROM DAMAGE THROUGHOUT CONSTRUCTION.
- 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.
- MECHANICAL CONTRACTOR TO INCLUDE THE TEST AND BALANCE, AND ANY PERMIT FEES IN THEIR BID.
- MECHANICAL CONTRACTOR SHALL VERIFY ALL ROOFTOP EQUIPMENT WEIGHTS, SIZES, LOCATIONS AND OPENINGS REQUIRED AND SHALL COORDINATE ANY CHANGES WITH THE ARCHITECT.
- 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	IN	INCH
ADD	ADDENDUM	LAT	LEAVING AIR TEMPERATURE
ADJ	ADJUSTABLE	LB	POUND
AFF	ABOVE FINISH FLOOR	LWT	LEAVING WATER TEMPERATURE
AHU	AIR HANDLER UNIT	MAX	MAXIMUM
AI	ANALOG INPUT	MBH	1000 BTU PER HOUR
ALT	ALTERNATE	MC	MECHANICAL CONTRACTOR
AO	ANALOG OUTPUT	MCA	MINIMUM CIRCUIT AMPS
APPRX	APPROXIMATE	MECH	MECHANICAL
ARCH	ARCHITECT, ARCHITECTURAL	MIN	MINIMUM
BDD	BACK DRAFT DAMPER	MFR	MANUFACTURER
BLDG	BUILDING	NTS	NOT TO SCALE
BTUH	BRITISH THERMAL UNIT PER HOUR	OA	OUTSIDE AIR
C	CENTER	OC	ON CENTER
CD	CEILING DIFFUSER	P	PUMP
CFM	CUBIC FEET PER MINUTE	PC	PLUMBING CONTRACTOR
CO	CLEAN OUT	PLBG	PLUMBING
COND	CONDENSATE	PSI	POUNDS PER SQUARE INCH
CONT	CONTINUOUS	QTY	QUANTITY
COP	COEFFICIENT OF PERFORMANCE	RA	RETURN AIR
DB	DRY BULB	REQD	REQUIRED
DET	DETAIL	REV	REVERSE OR REVISION
DG	DOOR GRILLE	RG	RETURN AIR GRILLE
DI	DIGITAL INPUT	RPM	REVOLUTIONS PER MINUTE
DIA OR Ø	DIAMETER	RTU	ROOF TOP UNIT
DIM	DIMENSION	SA	SUPPLY AIR
DN	DOWN	SQFT	SQUARE FEET
DO	DIGITAL OUTPUT	SG	SUPPLY GRILLE
DWG	DRAWING	SP	STATIC PRESSURE
EA	EXHAUST AIR	SPEC	SPECIFICATIONS
EAT	ENTERING AIR TEMPERATURE	SS	STAINLESS STEEL
EC	ELECTRICAL CONTRACTOR	T&B	TEST AND BALANCE
EER	ENERGY EFFICIENCY RATIO	TEMP	TEMPERATURE OR TEMPORARY
EF	EXHAUST FAN	TG	TRANSFER GRILLE
EG	EXHAUST GRILLE	TYP	TYPICAL
ELEC	ELECTRICAL	V	VOLT
ERV	ENERGY RECOVERY VENTILATOR	VAR	VARIABLE OR VARIES
ESP	EXTERNAL STATIC PRESSURE	VEL	VELOCITY
EWT	ENTERING WATER TEMPERATURE	VFD	VARIABLE FREQUENCY DRIVE
EXIST	EXISTING	VTR	VENT THRU ROOF
FA	FRESH AIR	W/	WITH
FPM	FEET PER MINUTE	W/IN	WITHIN
FT	FOOT (FEET)	W/O	WITH OUT
GA	GAUGE/GAGE	WB	WET BULB
GALV	GALVANIZED	WC	WATER COLUMN (INCHES OF)
GC	GENERAL CONTRACTOR	WT	WEIGHT
GPM	GALLONS PER MINUTE		
GYP	GYPSUM		
HORIZ	HORIZONTAL		
HP	HORSEPOWER		
HT	HEIGHT		
I/O	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)			OUTSIDE OR SUPPLY AIR DUCT (UP)
DUCT SIZE			NEW DUCTWORK
FLEX DUCT			EXISTING DUCTWORK
DEMOLITION LINETYPE			SUPPLY AIR CEILING DIFFUSER
RETURN AIR GRILLE			EXHAUST AIR GRILLE
DIFFUSER, GRILLE, AND REGISTER CALL-OUTS			SCHEDULED EQUIPMENT TAG
MANUAL BALANCING DAMPER			PIPE PENETRATION THROUGH FIRE RATED WALL
FIRE DAMPER			SMOKE DAMPER
MOTORIZED DAMPER			FIRE/SMOKE DAMPER
THERMOSTAT			HUMIDISTAT
REMOTE SENSOR			CARBON DIOXIDE SENSOR
DUCT SMOKE DETECTOR			CARBON MONOXIDE SENSOR

MECHANICAL SHEET INDEX

M000	MECHANICAL LEGEND AND NOTES
M101	MECHANICAL DUCTWORK PLAN
M102	MECHANICAL ROOF PLAN
M103	OVERALL FLOOR PLAN - CARBON MONOXIDE
M501	MECHANICAL DETAILS
M601	MECHANICAL SCHEDULES

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NEW CLASSROOM
ADDITION -
SOUTH LAKE
ELEMENTARY SCHOOL

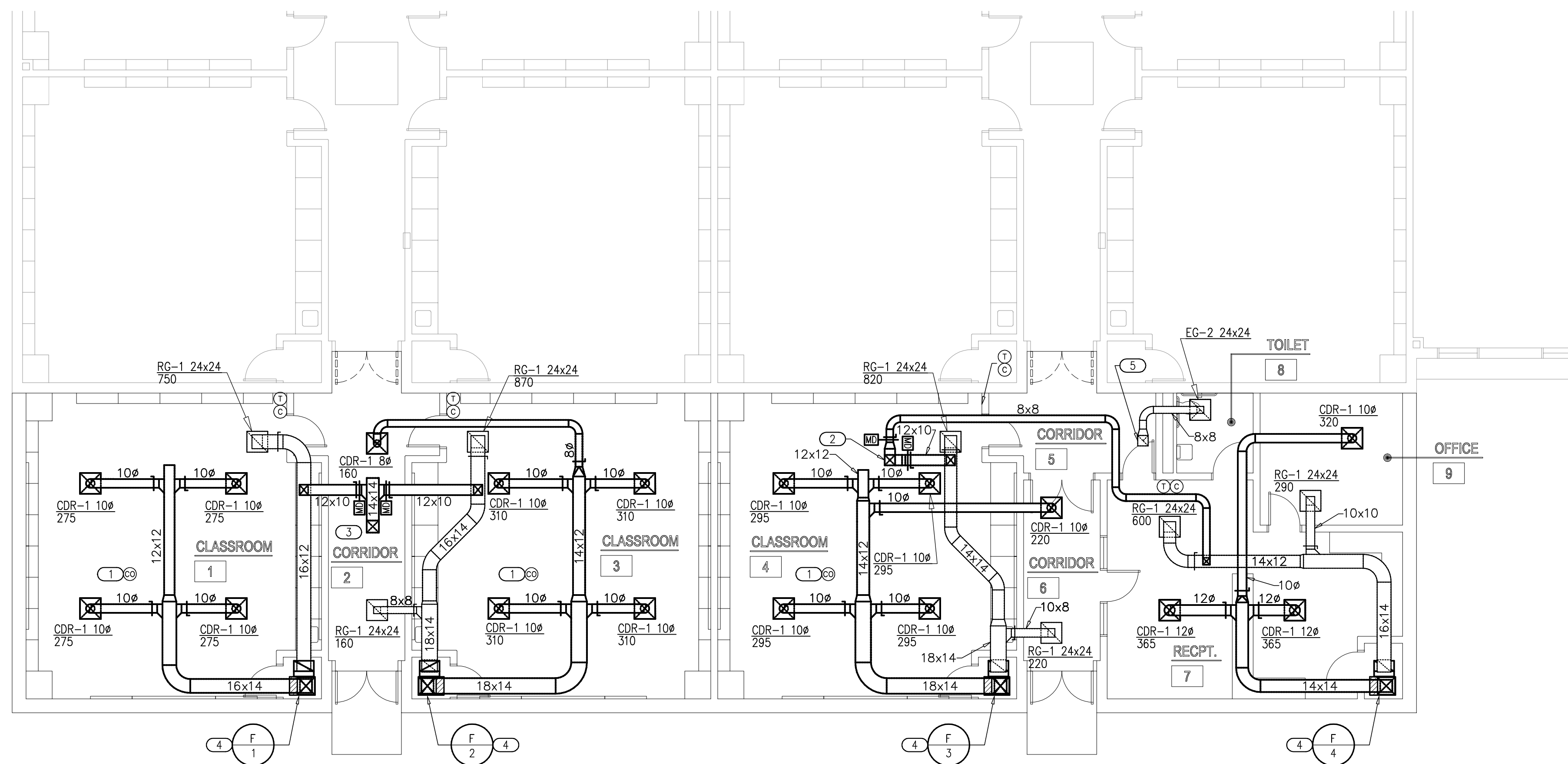
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GENERAL NOTES	
1.	COORDINATE WORK WITH ALL TRADES.
2.	COORDINATE LOCATION OF THERMOSTATS AND CARBON MONOXIDE DETECTOR WITH E.C. ROUGH-IN BY E.C.
3.	COORDINATE CARBON DIOXIDE SENSOR LOCATION WITH EARTHSMART PRIOR TO INSTALLATION.
4.	M.C. SHALL PROVIDE CARBON MONOXIDE SENSORS WHERE NEEDED PER CODE FOR EXISTING EQUIPMENT THROUGHOUT THE ENTIRE BUILDING. APPLICABLE FOR FUEL-BURNING EQUIPMENT THAT SERVES CLASSROOMS. M.C. IS RESPONSIBLE FOR SURVEYING ENTIRE BUILDING AND LOCATING EFFECTED CLASSROOMS. COORDINATE SENSOR LOCATION AND POWER CONNECTION WITH 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. FOR PRIMARY POWER CONNECTION AND SYSTEM CONNECTION.
2	DUCT UP 12x12 TO CONNECT TO ROOF HOOD OPENING 12x24.
3	DUCT UP 14x14 TO CONNECT TO ROOF HOOD OPENING 12x24.
4	FURNACE CONDENSATE LINE TO DRAIN TO HUB DRAIN IN CLOSET. COORDINATE EXACT LOCATION WITH P.C.
5	DUCT UP 12x12 TO CONNECT TO EXHAUST OPENING.



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M101

1 MECHANICAL DUCTWORK PLAN

1/8" = 1'-0"



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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.

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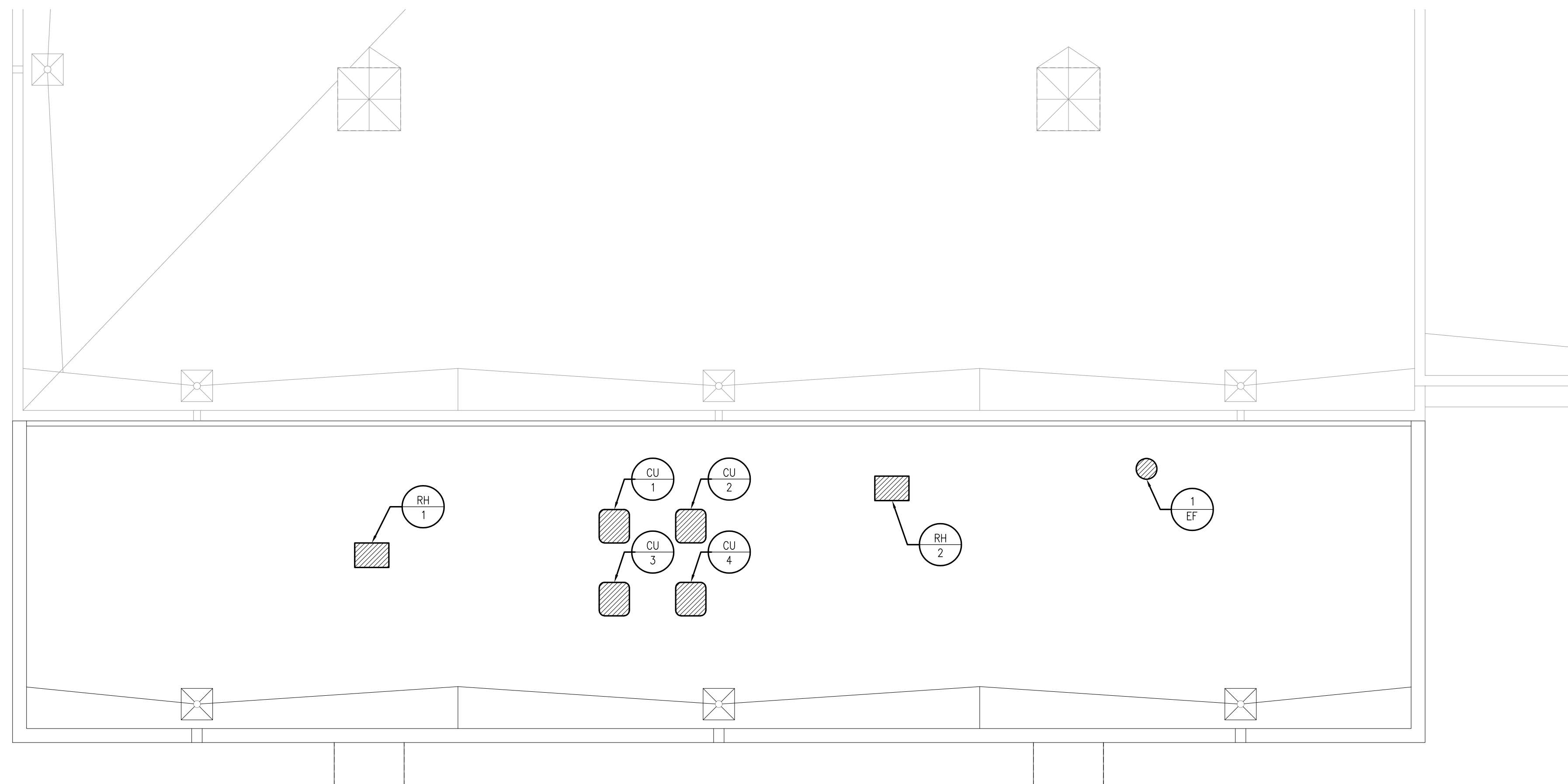
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1 MECHANICAL ROOF PLAN

1/8" = 1'-0"



GENERAL NOTES

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2. HATCHED AREA IN EXISTING BUILDING CONTAINS CLASSROOMS WITH APPLICABLE EQUIPMENT.

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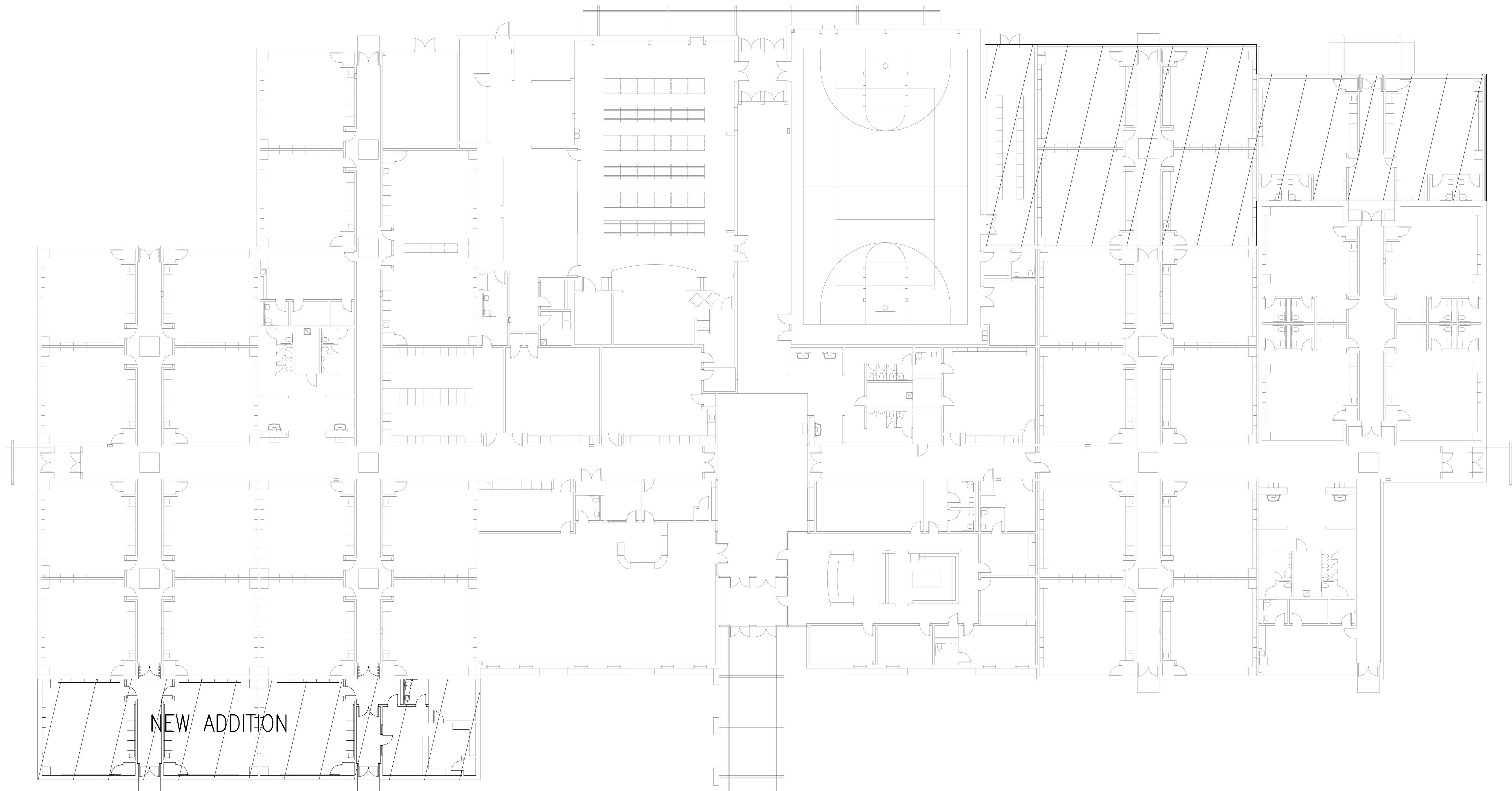
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1 OVERALL FLOOR PLAN - CARBON MONOXIDE

1/16" = 1'-0"



NORTH



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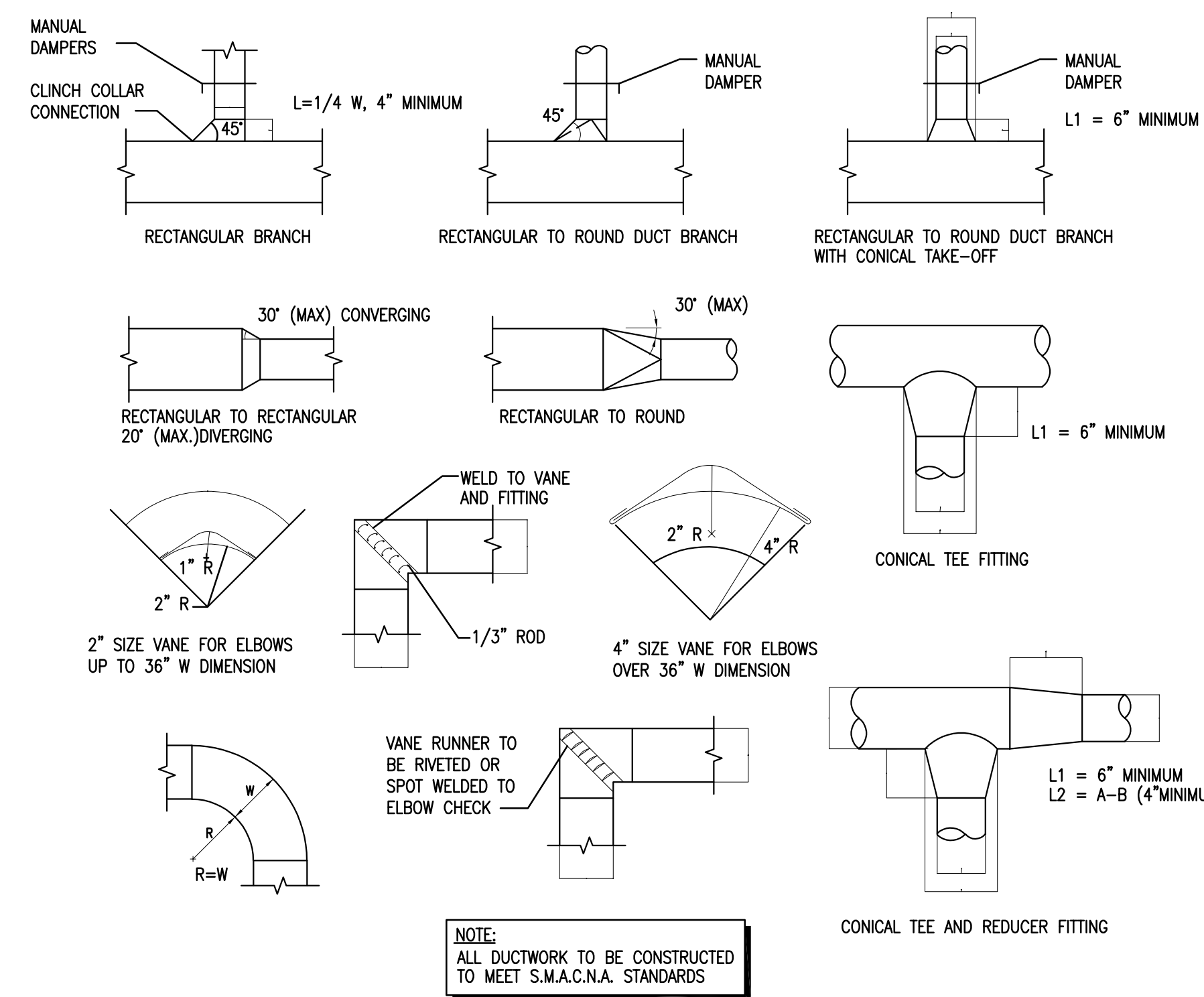


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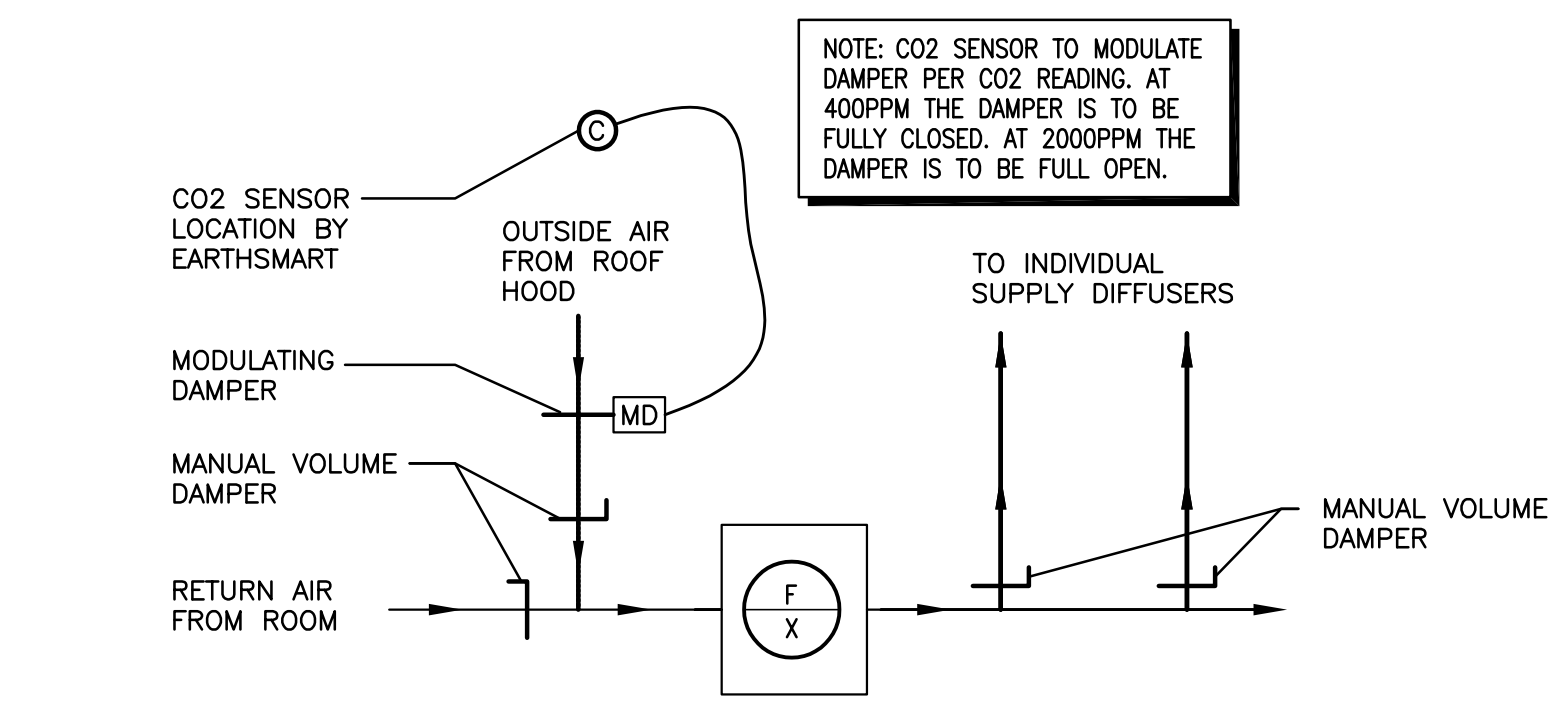
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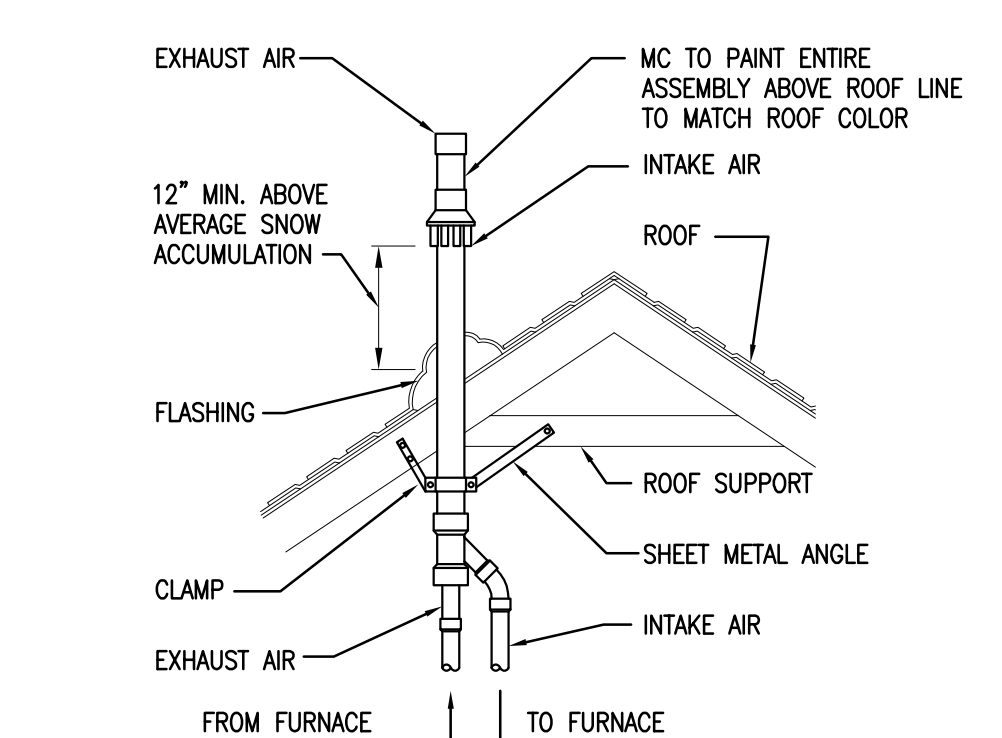
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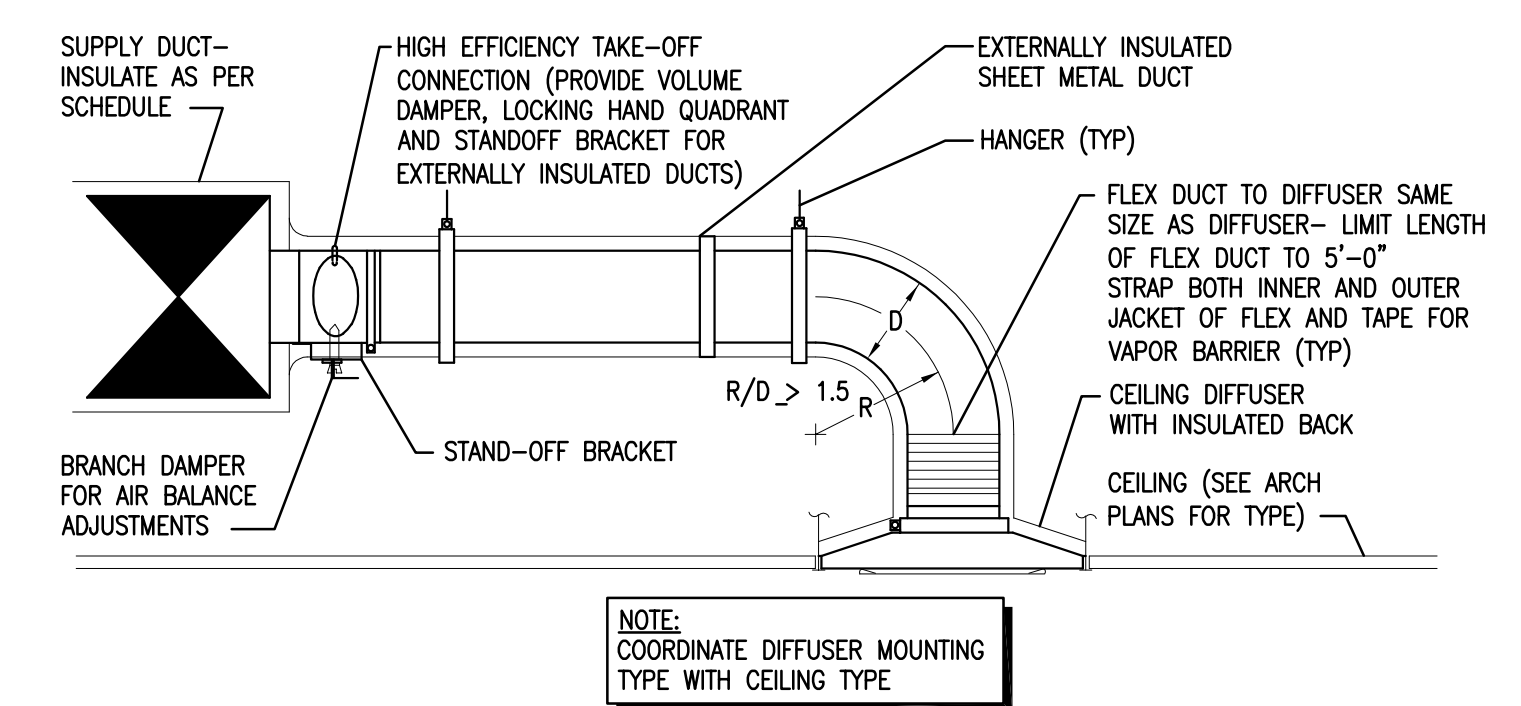
1 TYPICAL DUCTWORK DETAILS
NOT TO SCALE



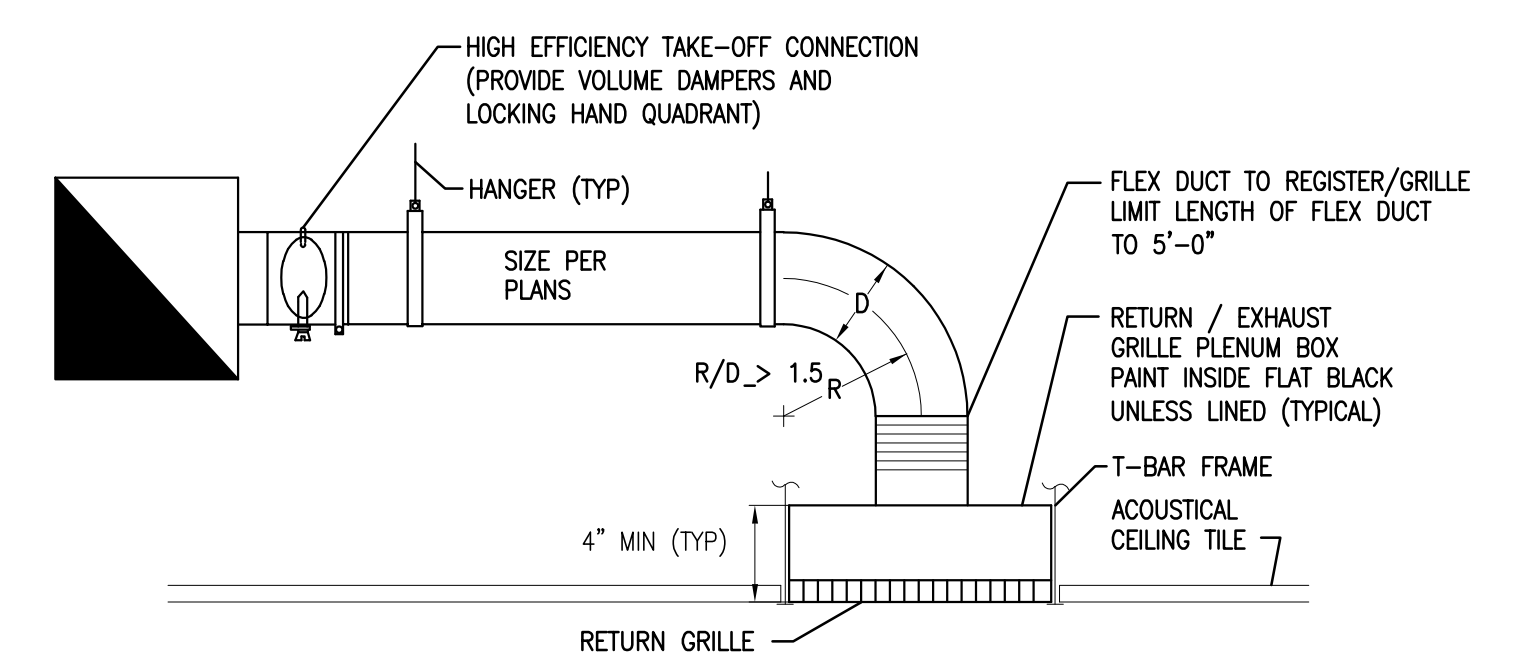
5 TYPICAL FURNACE AIR BALANCING SCHEMATIC
NOT TO SCALE



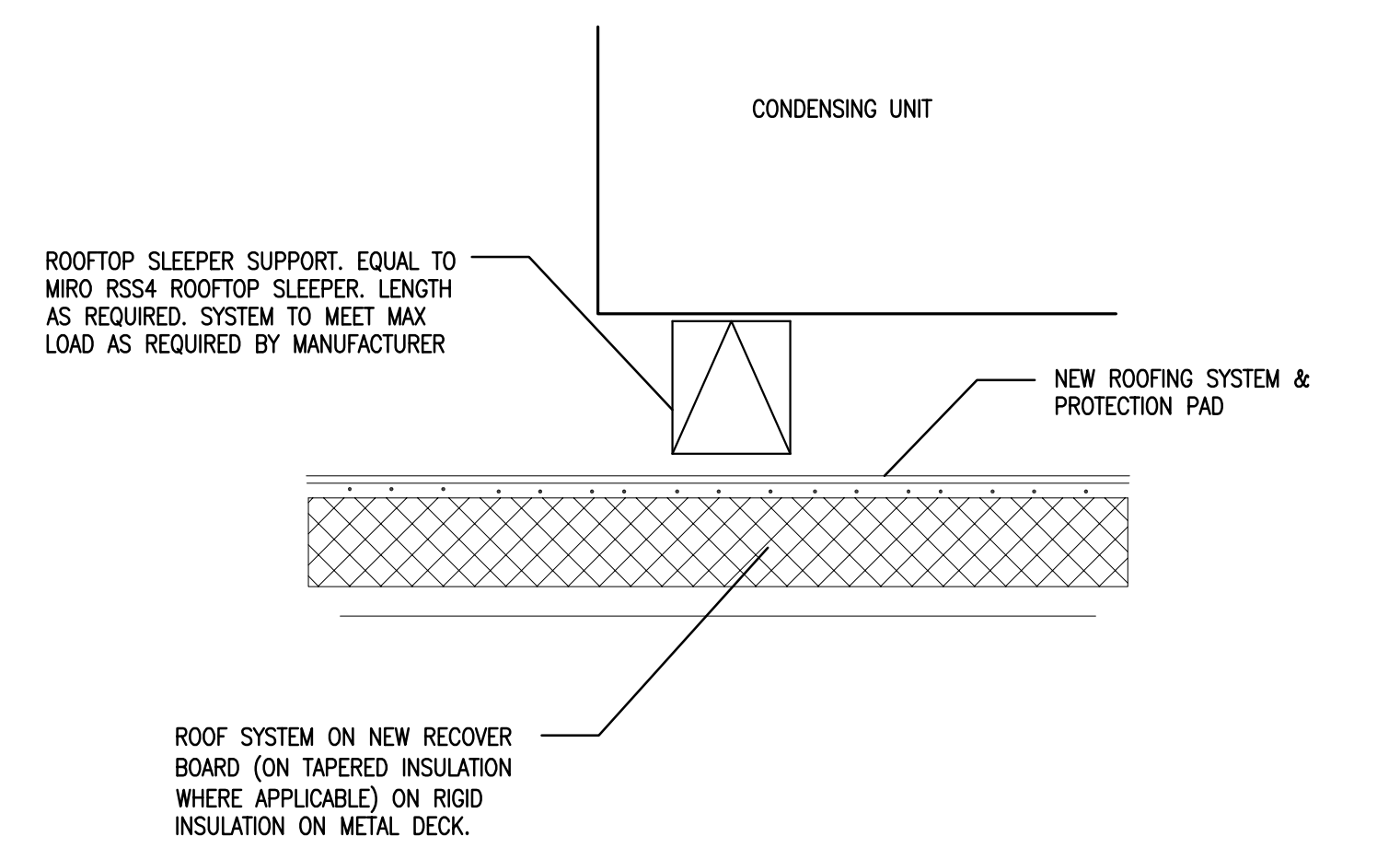
8 VENT TERMINATION DETAIL
NOT TO SCALE



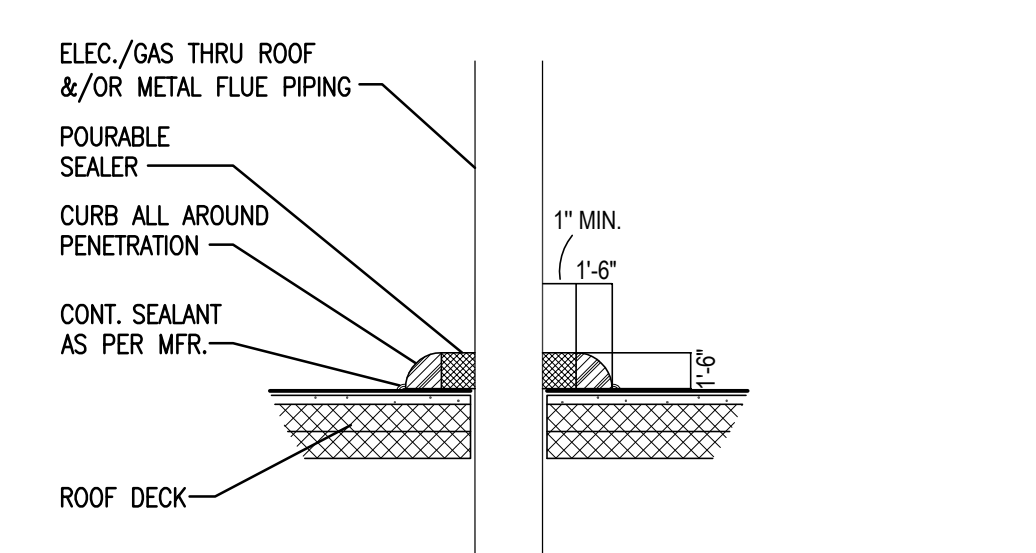
2 CEILING DIFFUSER DETAIL
NOT TO SCALE



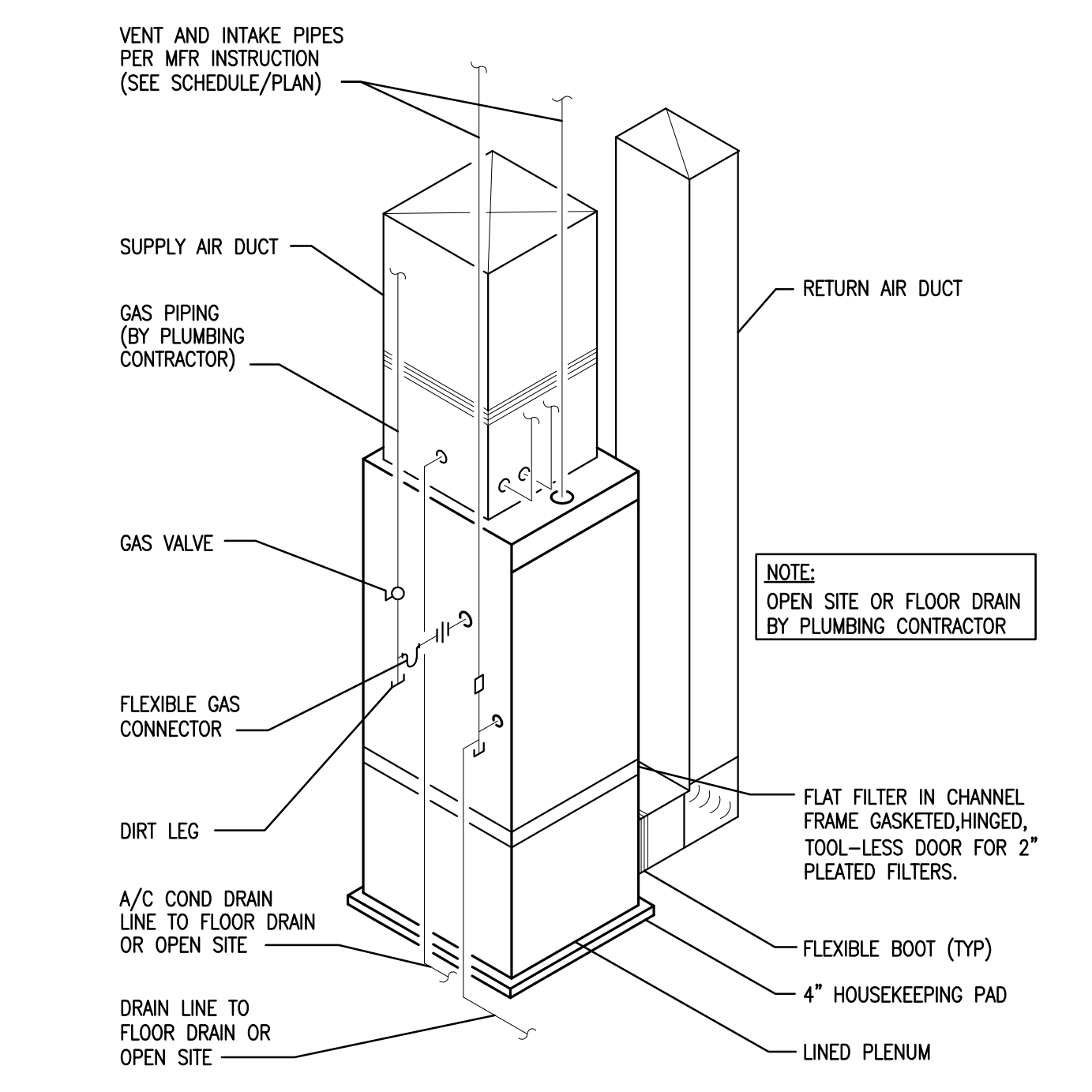
3 RETURN / EXHAUST AIR GRILLE PLENUM BOX
NOT TO SCALE



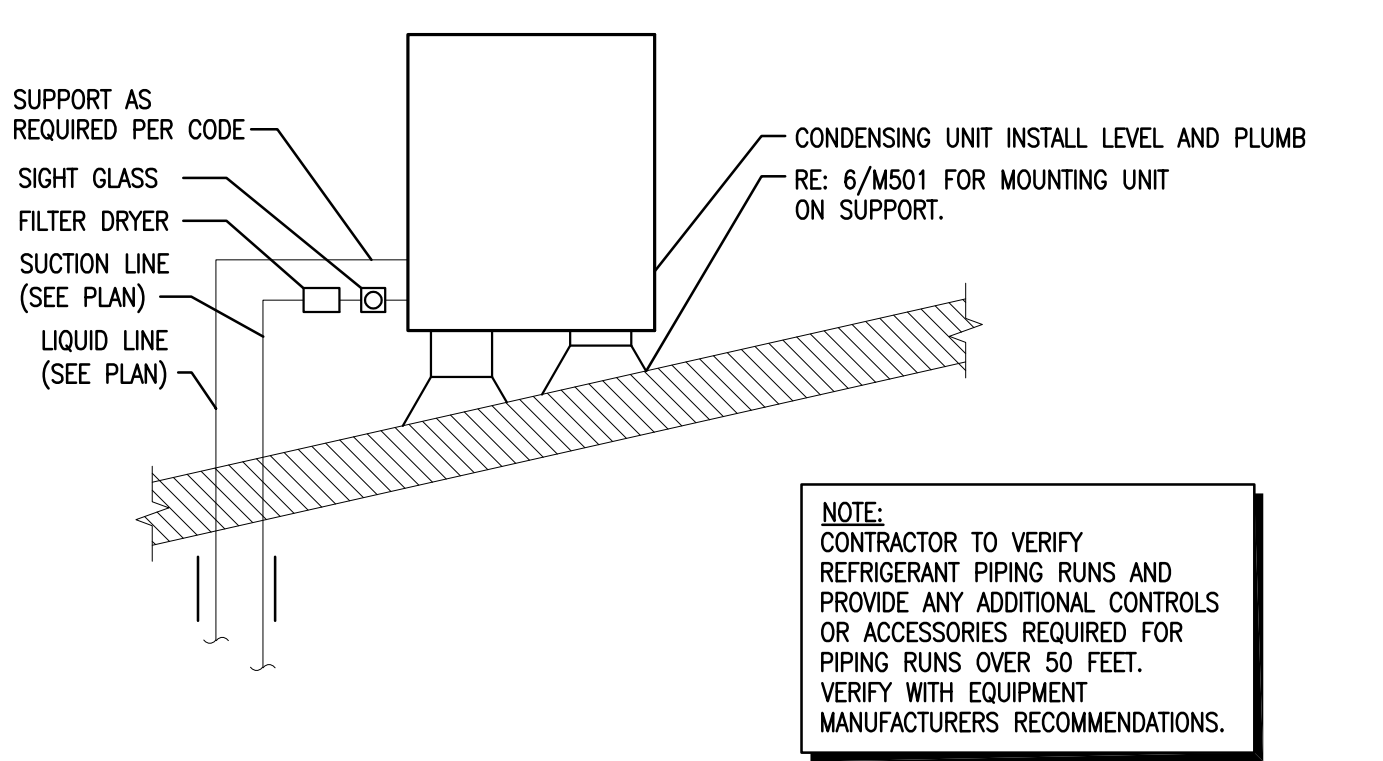
6 CONDENSING UNIT ROOF SUPPORT
NOT TO SCALE



9 SEALER POCKET DETAIL
NOT TO SCALE



4 GAS FURNACE DETAIL - NEW CLASSROOMS
NOT TO SCALE



7 CONDENSING UNIT MOUNTING DETAIL
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CONDENSING UNIT SCHEDULE														
CU #	CONDENSING UNIT						EVAPORATOR UNIT					NOTES		
	NOMINAL TONNAGE	ELEC. CHAR	MCA	MCCP	S.E.E.R	WEIGHT (LBS)	MANUFACTURER & MODEL NO.	CFM	MAX S.P.	BLOWER MOTOR	ELEC. CHAR		MCA	MANUFACTURER & MODEL NO.
1	3	208/1	21.4	35	12.5	265	YORK YFK36B21S	1100	0.3	-	SEE FURNACE SCHEDULE	-	YORK CM36BBCA1	1-7
2	4	208/1	28.2	45	12.3	295	YORK YFK48B21S	1400	0.3	-	SEE FURNACE SCHEDULE	-	YORK CM48CBCA1	1-7
3	4	208/1	28.2	45	12.3	295	YORK YFK48B21S	1400	0.3	-	SEE FURNACE SCHEDULE	-	YORK CM48CBCA1	1-7
4	3	208/1	21.4	35	12.5	265	YORK YFK36B21S	1050	0.3	-	SEE FURNACE SCHEDULE	-	YORK CM36BBCA1	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/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.

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.	ELEC. CHAR					
1	VERT	60	58	1100	350	0.6	ALUMINIZED STL	11X10	DIRECT	1/2	120/1	HOT S	3"	2" TA	YORK TM9V060B12MP12C	1-3
2	VERT	80	77	1400	370	0.6	ALUMINIZED STL	11X10	DIRECT	3/4	120/1	HOT S	3"	2" TA	YORK TM9V080C16MP12C	1-3
3	VERT	80	77	1400	360	0.6	ALUMINIZED STL	11X10	DIRECT	3/4	120/1	HOT S	3"	2" TA	YORK TM9V080C16MP12C	1-3
4	VERT	60	58	1050	160	0.6	ALUMINIZED STL	11X10	DIRECT	1/2	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 CO2 SENSOR, INSTALLATION BY CONTROLS CONTRACTOR. INTERLOCK CO2 SENSOR WITH MOTORIZED DAMPER IN OUTSIDE AIR DUCT.
3. PROVIDE FURNACE WITH 2 STAGE HEATING.

GRILLE, REGISTER, AND DIFFUSER SCHEDULE					
PLAN SYMBOL	DESCRIPTION	MANUFACTURER & MODEL NO.	MATERIAL	FINISH	NOISE CRITERIA
CDR-1 80	ROUND NECK, 4-WAY DEFLECTION CEILING DIFFUSER, ADJUSTABLE CORE, FOR LAY-IN CEILING INSTALLATION.	PRICE SCD (4C)	STEEL	WHITE	-
CDR-1 100	ROUND NECK, 4-WAY DEFLECTION CEILING DIFFUSER, ADJUSTABLE CORE, FOR LAY-IN CEILING INSTALLATION.	PRICE SCD (4C)	STEEL	WHITE	-
CDR-2 80	ROUND NECK, 4-WAY DEFLECTION CEILING DIFFUSER, ADJUSTABLE CORE, FOR CEILING INSTALLATION.	PRICE SCD (4C)	STEEL	WHITE	-
RG-1 24X24	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	-
TG-1 24X24	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 12X12	FIXED CORE OF 1/2"x1/2"x1/2" FABRICATED ALUMINUM SQUARES, FLAT FRAME WITH 1 1/4" MARGIN, FOR CEILING INSTALLATION.	PRICE 80	ALUMINUM	WHITE	-
EG-2 24X24	FIXED CORE OF 1/2"x1/2"x1/2" FABRICATED ALUMINUM SQUARES, FLAT FRAME WITH 1 1/4" MARGIN, FOR CEILING INSTALLATION.	PRICE 80	ALUMINUM	WHITE	-

NOTES:
SEE PLANS FOR QUANTITY AND SIZES.
M.C. TO FIELD VERIFY CEILING TYPE FOR ALL GRD BEFORE PURCHASING EQUIPMENT. PROVIDE REQUIRED MOUNTING.

DUCTWORK/INSULATION SCHEDULE													
SYSTEM	MAX. PRES.	LOW PRESSURE			MED. PRESS.		HIGH PRESS.		INSULATION				NOTES
		SEAL			MAX PRES.	SEAL A	MAX PRES.	SEAL A	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:

ROOF HOOD SCHEDULE								
RH #	THROAT SIZE DIMENSION (N)	CFM	THROAT AREA (FT²)	DAMPER BDD OR MOD	CONSTRUCTION	MANUFACTURER & MODEL NO.	COMMENTS	NOTES
1	12X24	720	2.00	MOD	ALUMINUM	GREENHECK FGI	COLOR BY ARCHITECT	ALL
2	12X24	520	2.00	MOD	ALUMINUM	GREENHECK FGI	COLOR BY ARCHITECT	ALL

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.

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	75	0.35	942	FRAC.	120/1	3.8	MOD	DIRECT	CENT	LIGHTS	38	GREENHECK G-097-VG	ALL

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.