



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		
ADJ	ADJUSTABLE		
AFF	ABOVE FINISH FLOOR	LAT	LEAVING AIR TEMPERATURE
AHU	AIR HANDLER UNIT	LB	POUND
AI	ANALOG INPUT	LWT	LEAVING WATER TEMPERATURE
ALT	ALTERNATE		
AO	ANALOG OUTPUT	MAX	MAXIMUM
APPRX	APPROXIMATE	MBH	1000 BTU PER HOUR
ARCH	ARCHITECT, ARCHITECTURAL	MC	MECHANICAL CONTRACTOR
		MCA	MINIMUM CIRCUIT AMPS
BDD	BACK DRAFT DAMPER	MECH	MECHANICAL
BLDC	BUILDING	MIN	MINIMUM
BTUH	BRITISH THERMAL UNIT PER HOUR	MFR	MANUFACTURER
		NTS	NOT TO SCALE
C	CENTER		
CD	CEILING DIFFUSER	OA	OUTSIDE AIR
CFM	CUBIC FEET PER MINUTE	OC	ON CENTER
CO	CLEAN OUT		
COND	CONDENSATE	P	PUMP
CONT	CONTINUOUS	PC	PLUMBING CONTRACTOR
COP	COEFFICIENT OF PERFORMANCE	PLBG	PLUMBING
		PSI	POUNDS PER SQUARE INCH
DB	DRY BULB		
DET	DETAIL	QTY	QUANTITY
DG	DOOR GRILLE		
DI	DIGITAL INPUT	RA	RETURN AIR
DIA OR Ø	DIAMETER	REQD	REQUIRED
DIM	DIMENSION	REV	REVERSE OR REVISION
DN	DOWN	RG	RETURN AIR GRILLE
DO	DIGITAL OUTPUT	RPM	REVOLUTIONS PER MINUTE
DWG	DRAWING	RTU	ROOF TOP UNIT
EA	EXHAUST AIR	SA	SUPPLY AIR
EAT	ENTERING AIR TEMPERATURE	SQFT	SQUARE FEET
EC	ELECTRICAL CONTRACTOR	SG	SUPPLY GRILLE
EER	ENERGY EFFICIENCY RATIO	SP	STATIC PRESSURE
EF	EXHAUST FAN	SPEC	SPECIFICATIONS
EG	EXHAUST GRILLE	SS	STAINLESS STEEL
ELEC	ELECTRICAL		
ERV	ENERGY RECOVERY VENTILATOR	T&B	TEST AND BALANCE
ESP	EXTERNAL STATIC PRESSURE	TEMP	TEMPERATURE OR TEMPORARY
EWT	ENTERING WATER TEMPERATURE	TG	TRANSFER GRILLE
EXIST	EXISTING	TYP	TYPICAL
FA	FRESH AIR	V	VOLT
FPM	FEET PER MINUTE	VAR	VARIABLE OR VARIES
FT	FOOT (FEET)	VEL	VELOCITY
		VFD	VARIABLE FREQUENCY DRIVE
GA	GAUGE/GAGE	VTR	VENT THRU ROOF
GALV	GALVANIZED		
GC	GENERAL CONTRACTOR	W/	WITH
GPM	GALLONS PER MINUTE	W/IN	WITHIN
GYP	GYPSUM	W/O	WITH OUT
		WB	WET BULB
HORIZ	HORIZONTAL	WC	WATER COLUMN (INCHES OF)
HP	HORSEPOWER	WT	WEIGHT
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
M502	MECHANICAL DETAILS
M601	MECHANICAL SCHEDULES

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M000

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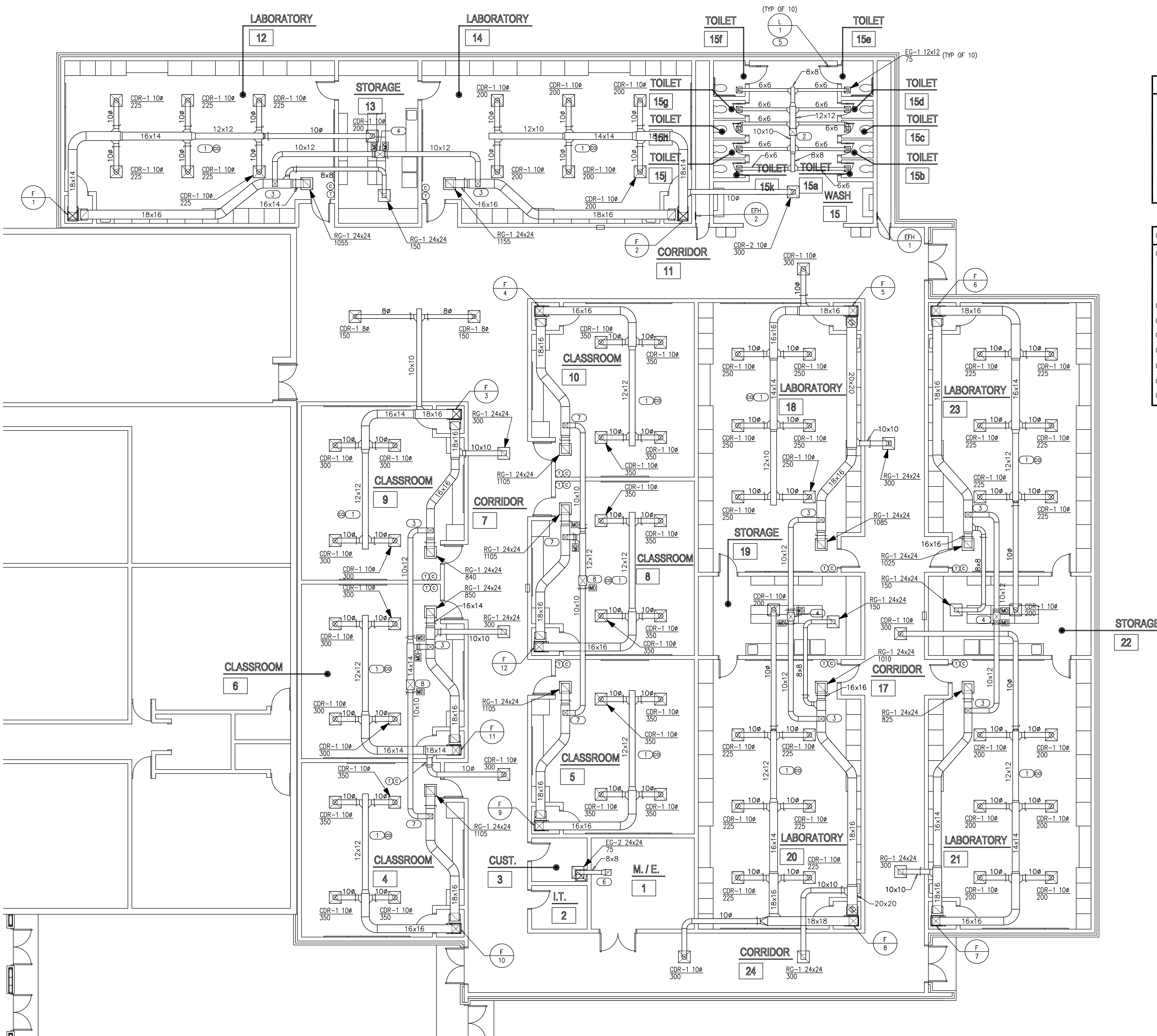
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- GENERAL NOTES**
- COORDINATE WORK WITH ALL TRADES.
 - COORDINATE LOCATION OF THERMOSTATS AND CARBON MONOXIDE DETECTOR WITH E.C. ROUGH-IN BY E.C.
 - COORDINATE CARBON DIOXIDE SENSOR LOCATION WITH EARTHSMART PRIOR TO INSTALLATION.
 - M.C. SHALL PROVIDE 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**
- 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.
 - DUCT UP 14x14 TO CONNECT TO ROOF EXHAUST OPENING.
 - DUCT 10x12 INTO RETURN DUCT.
 - DUCT UP 14x18 TO CONNECT TO ROOF HOOD.
 - PLACE DOOR LOUVER 8" FROM BOTTOM OF DOOR.
 - DUCT UP 12x12 TO CONNECT TO ROOF EXHAUST OPENING.
 - DUCT 10x10 INTO RETURN DUCT.
 - DUCT UP 16x20 TO CONNECT TO ROOF HOOD.





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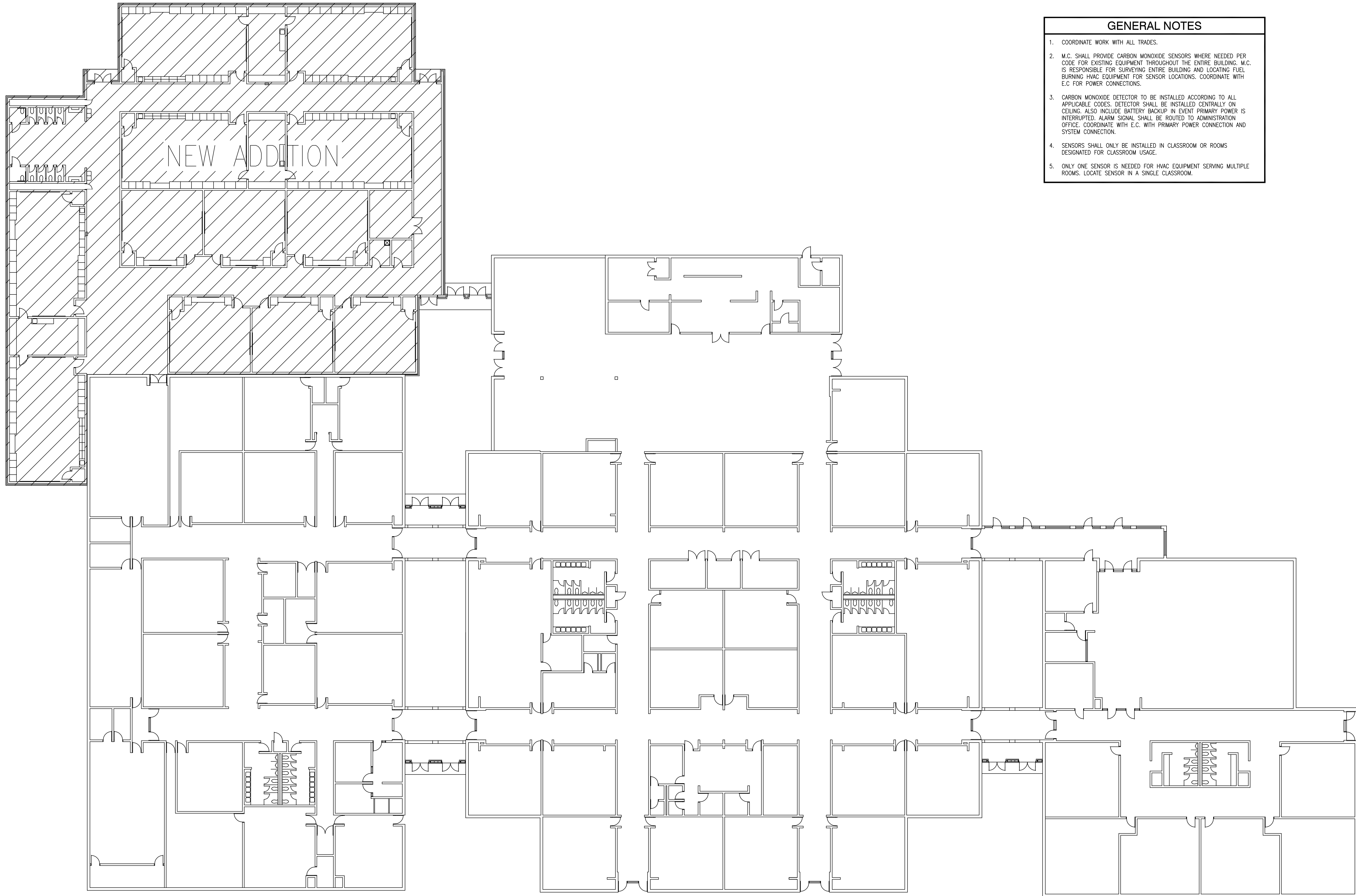
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- GENERAL NOTES**
1. ALL ROOF TOP EQUIPMENT TO BE LOCATED A MINIMUM 10'-0" AWAY FROM ROOF EDGE.
 2. MAINTAIN A MINIMUM OF 10'-0" HORIZONTAL CLEARANCE BETWEEN ALL EXHAUST OUTLETS AND ANY FRESH AIR INTAKES.
 3. ALL ROOF SUPPORT SYSTEMS ARE TO BE MANUFACTURED 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
1/8" = 1'-0"





- GENERAL NOTES**
1. COORDINATE WORK WITH ALL TRADES.
 2. 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.
 3. 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.
 4. SENSORS SHALL ONLY BE INSTALLED IN CLASSROOM OR ROOMS DESIGNATED FOR CLASSROOM USAGE.
 5. ONLY ONE SENSOR IS NEEDED FOR HVAC EQUIPMENT SERVING MULTIPLE ROOMS. LOCATE SENSOR IN A SINGLE CLASSROOM.

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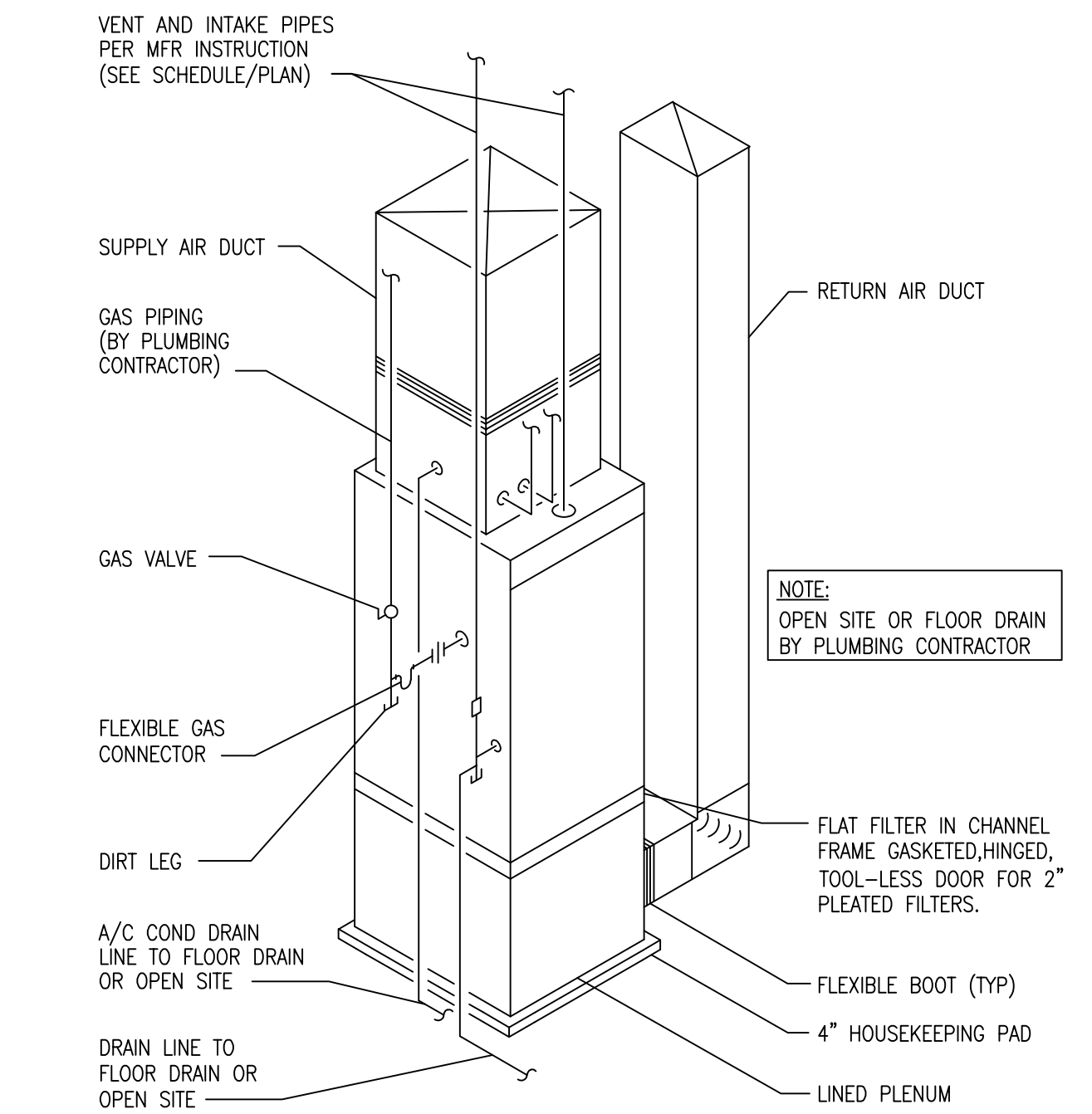
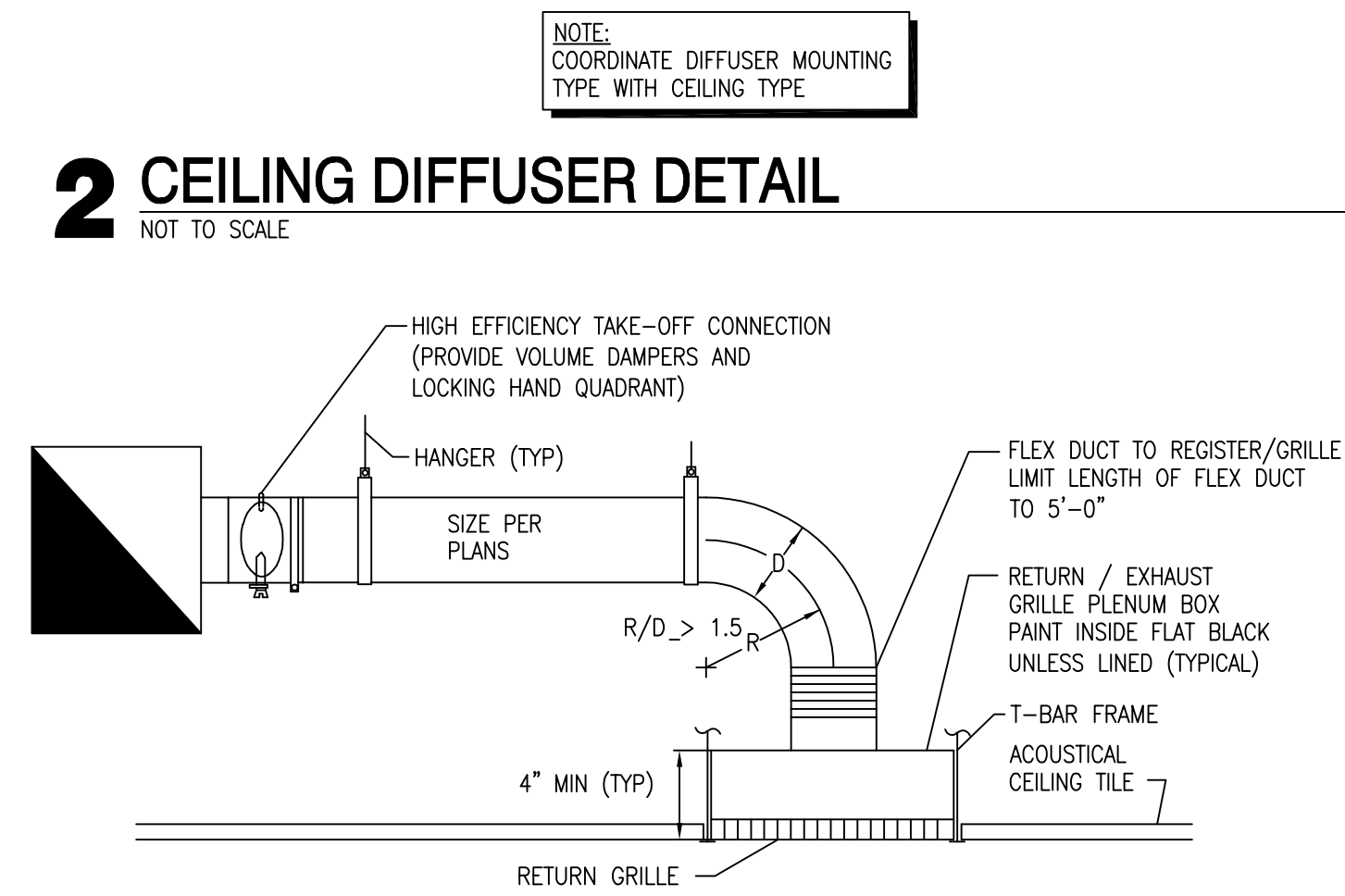
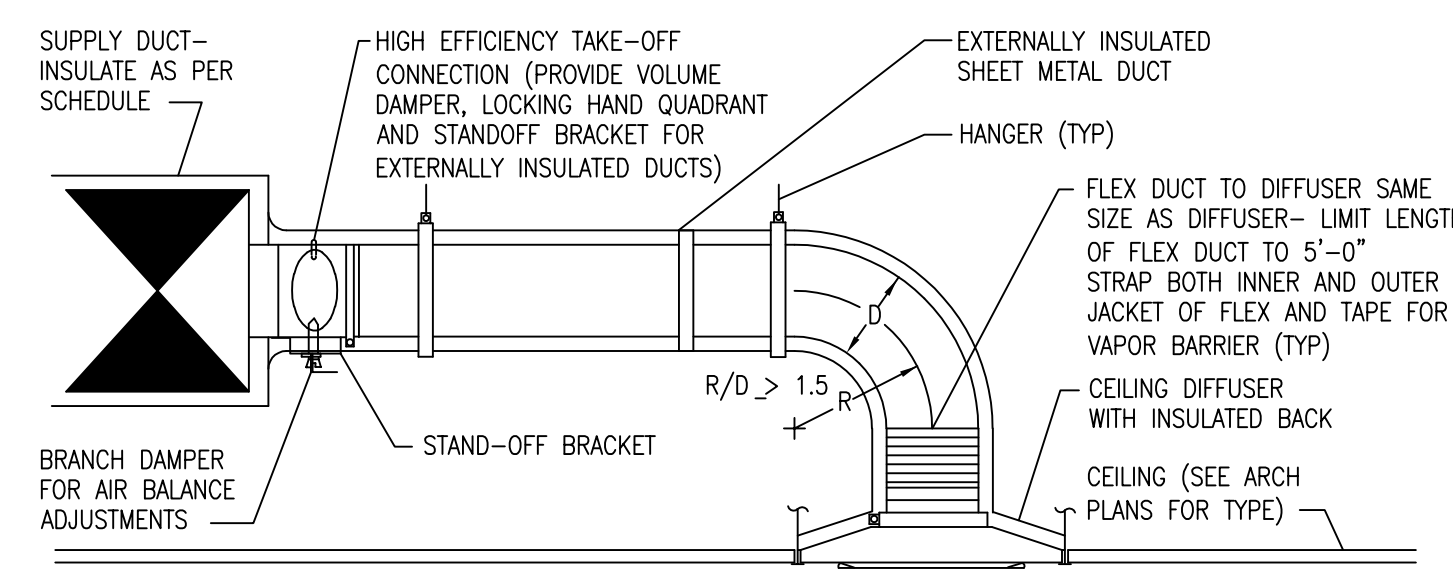
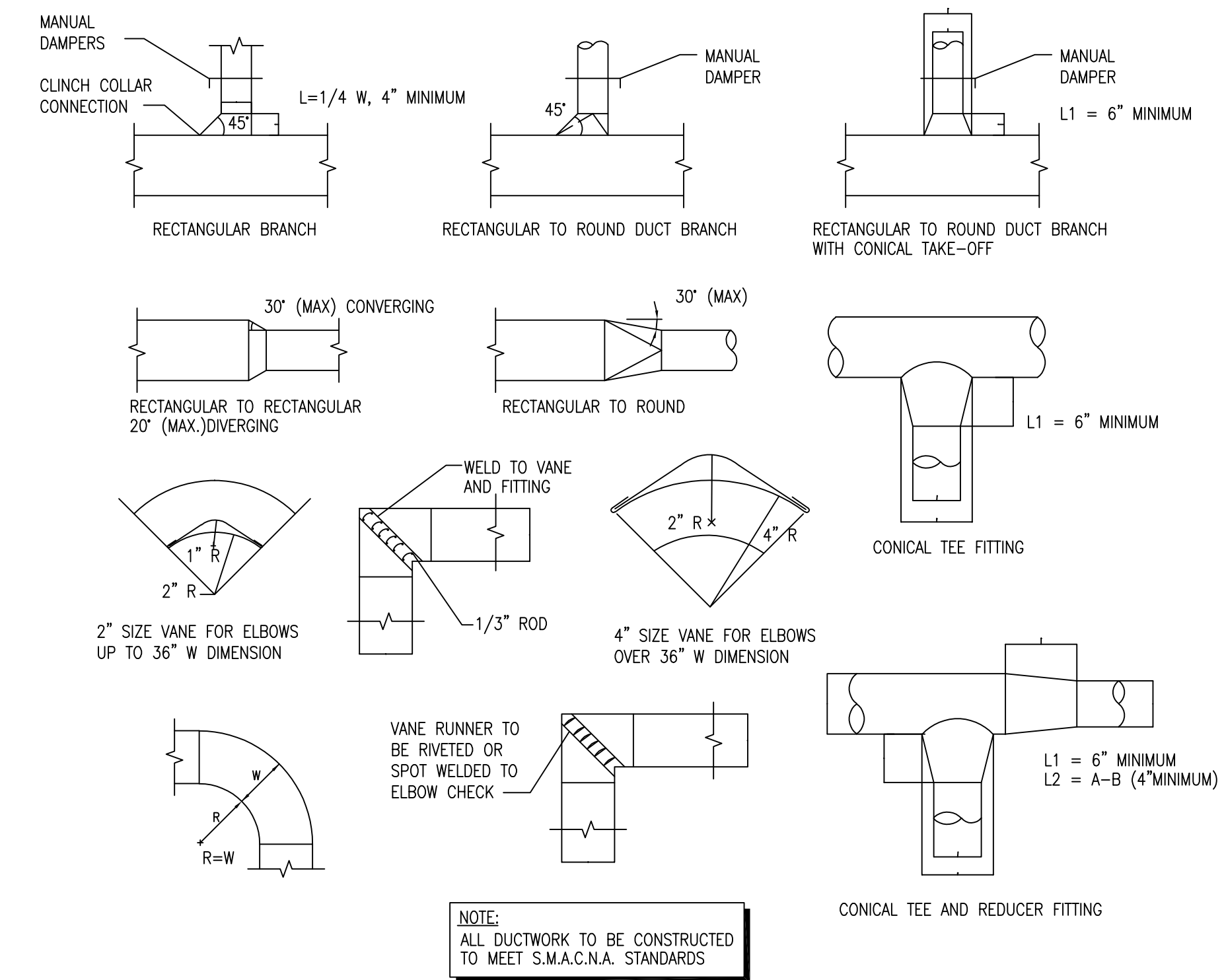


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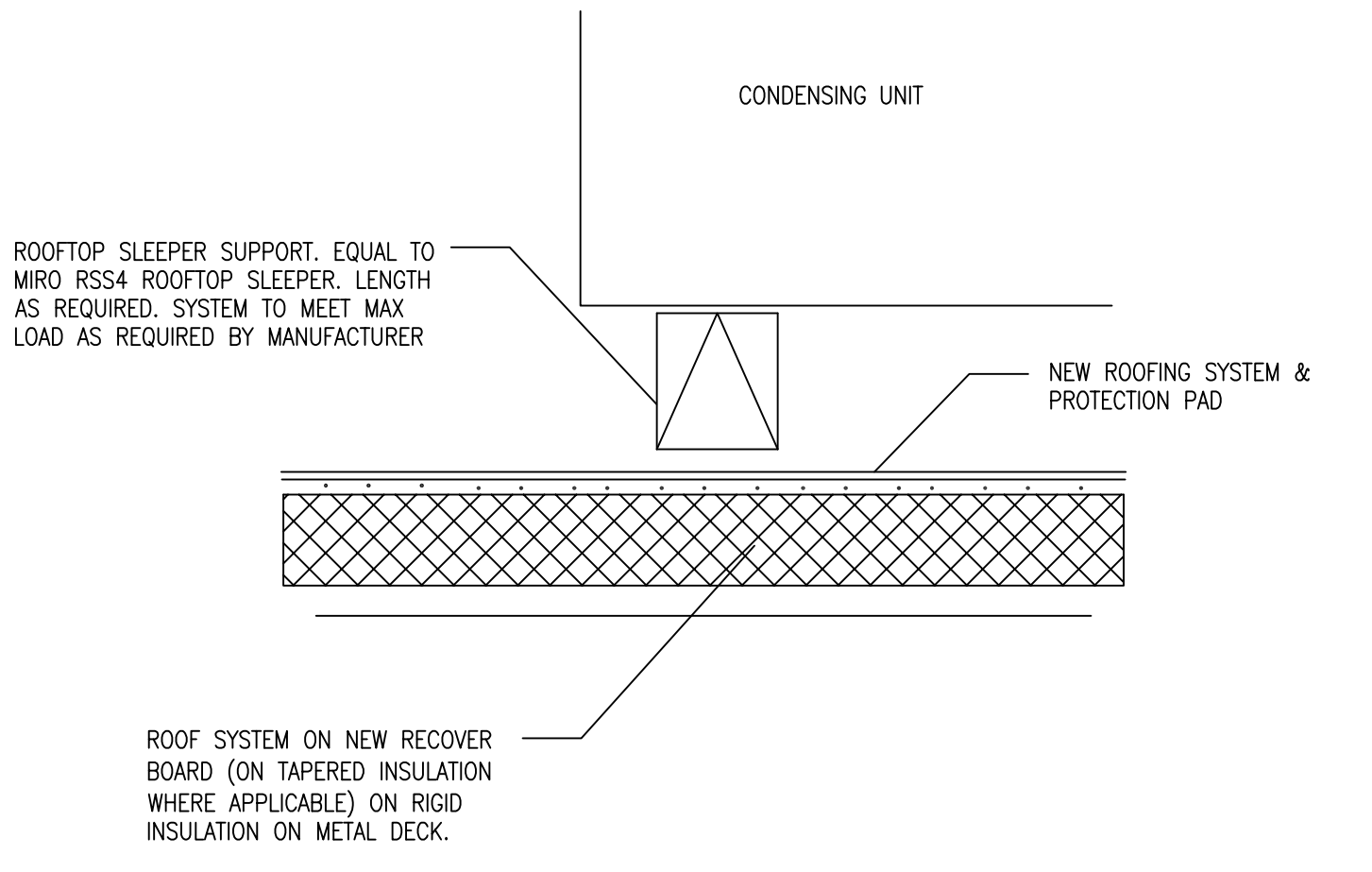
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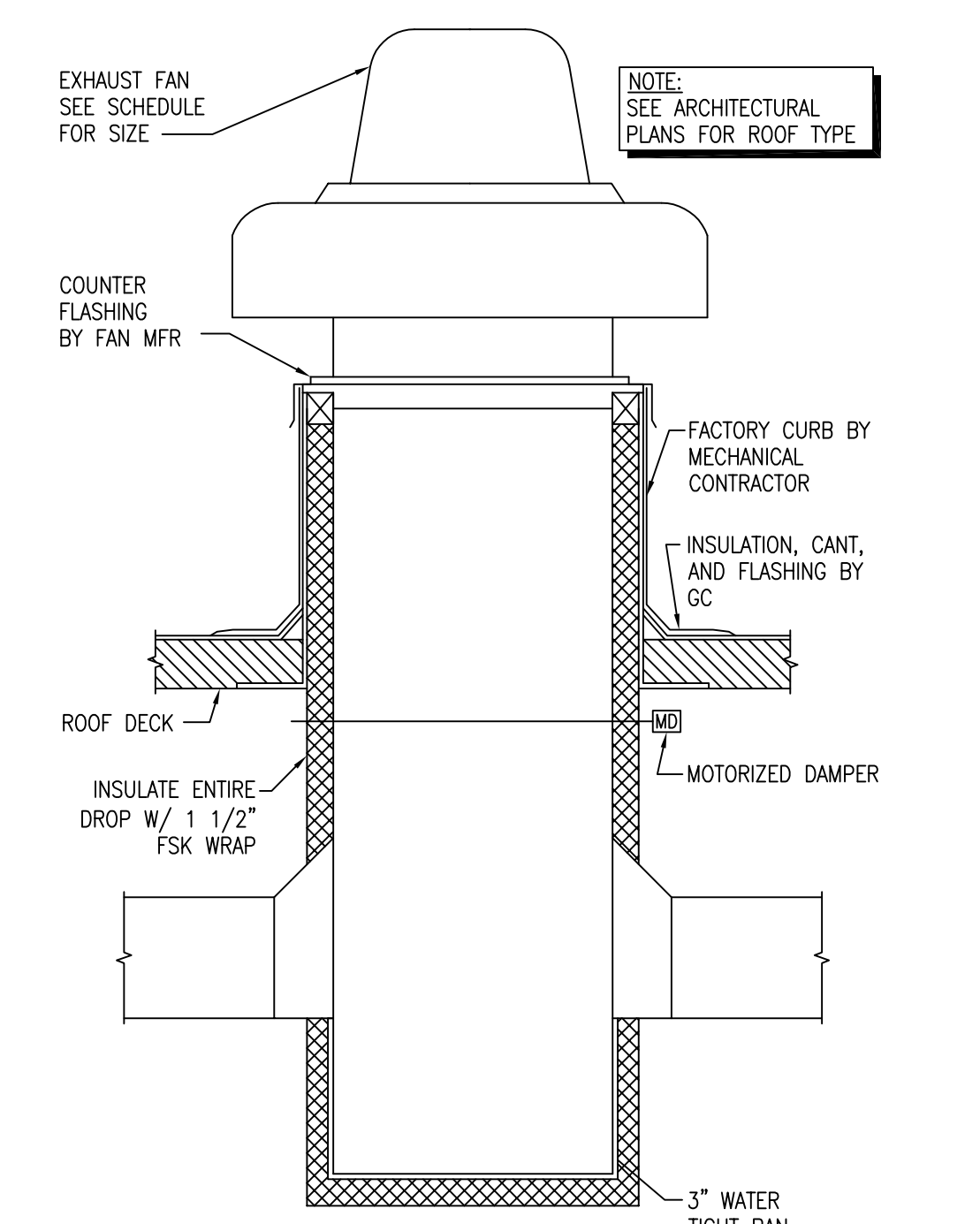
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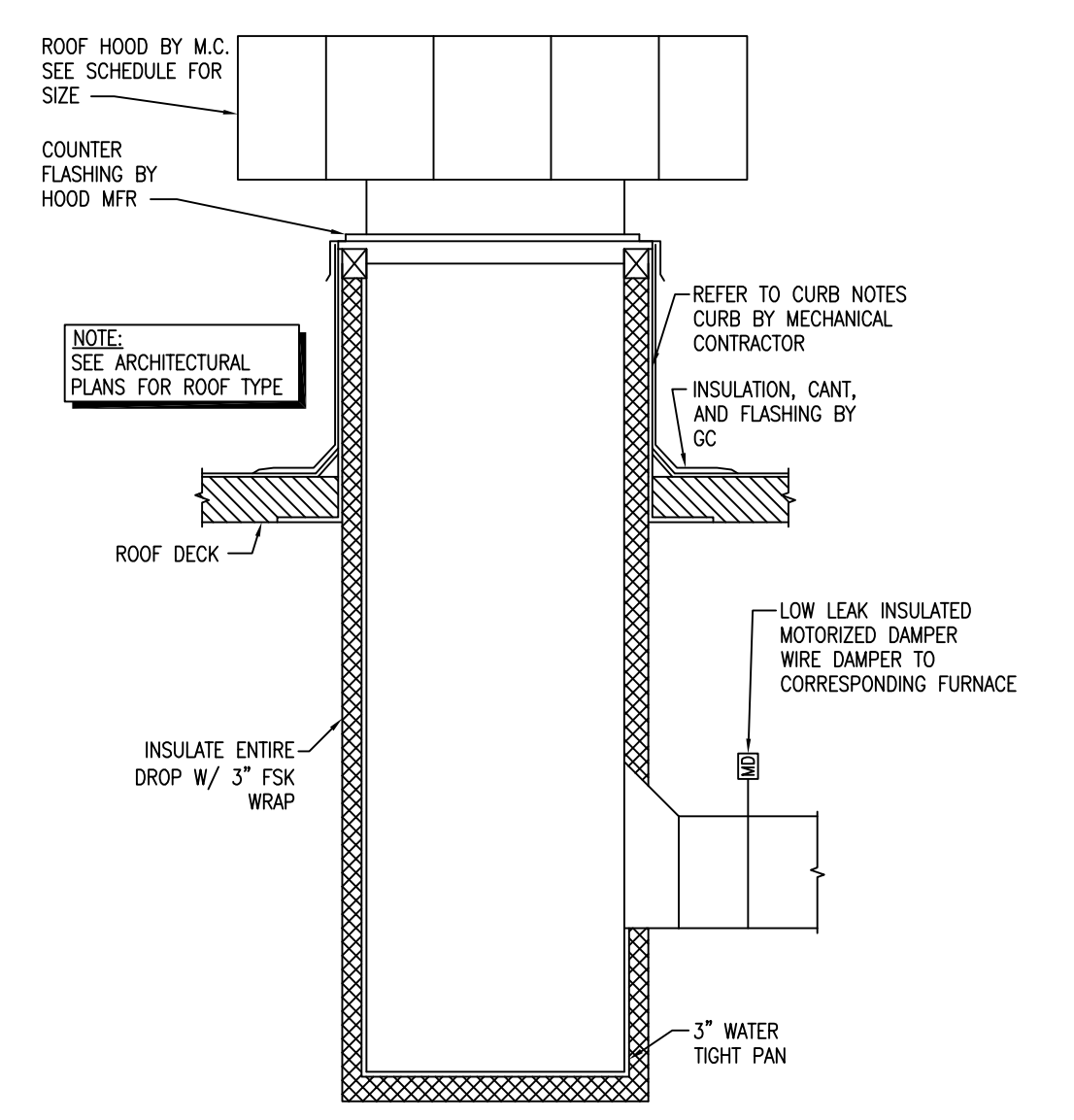
4 GAS FURNACE DETAIL
NOT TO SCALE



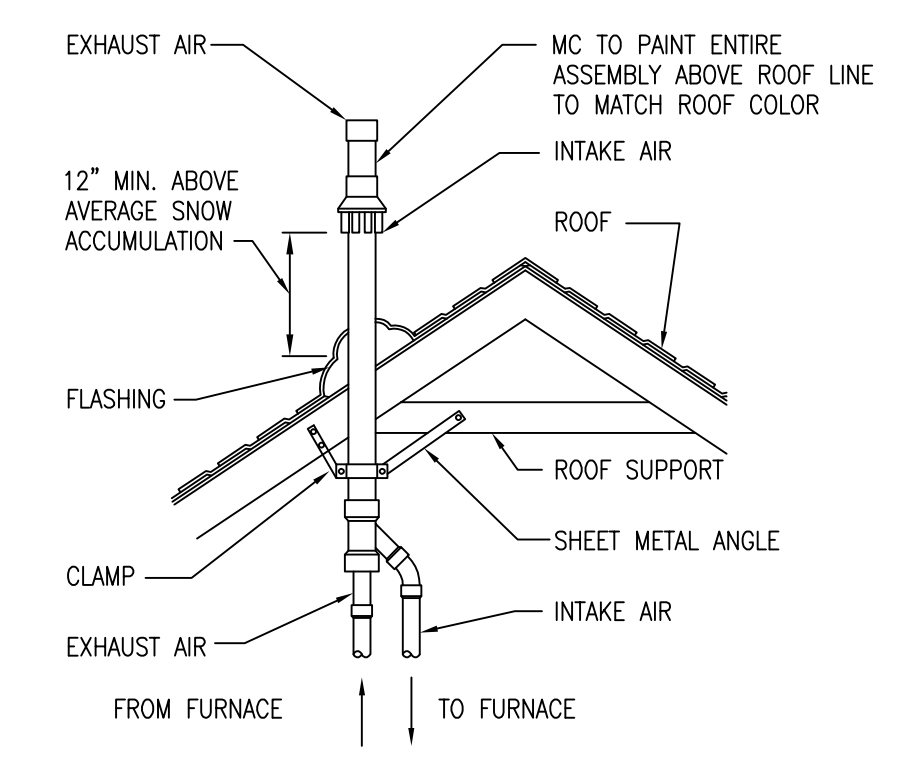
7 CONDENSING UNIT ROOF SUPPORT
NOT TO SCALE



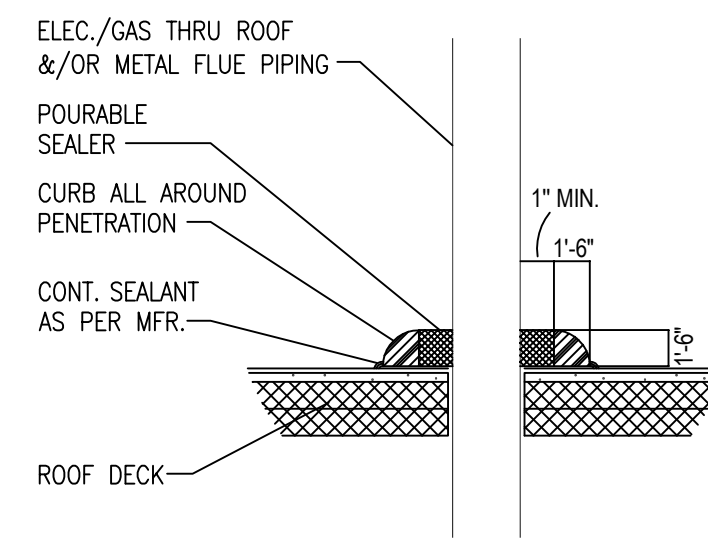
6 POWER ROOF VENTILATOR DETAIL
NOT TO SCALE



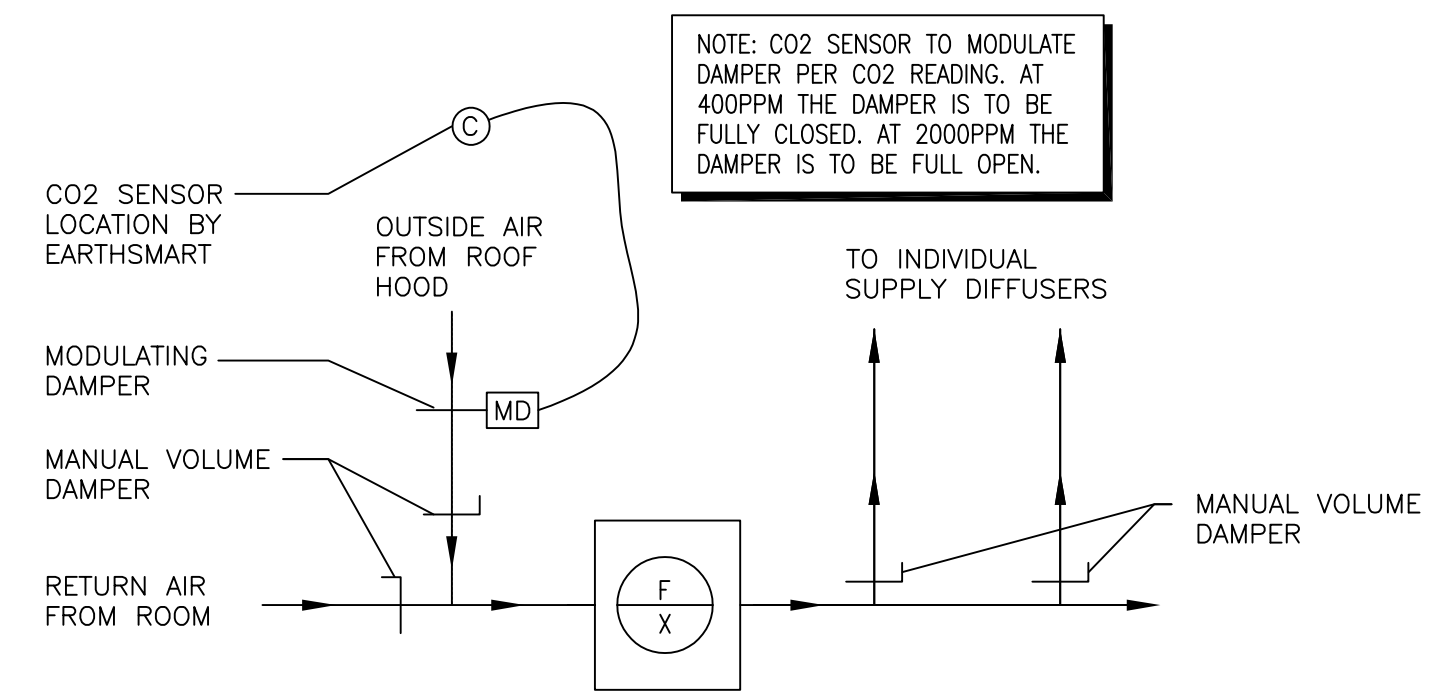
5 ROOF HOOD DETAIL
NOT TO SCALE



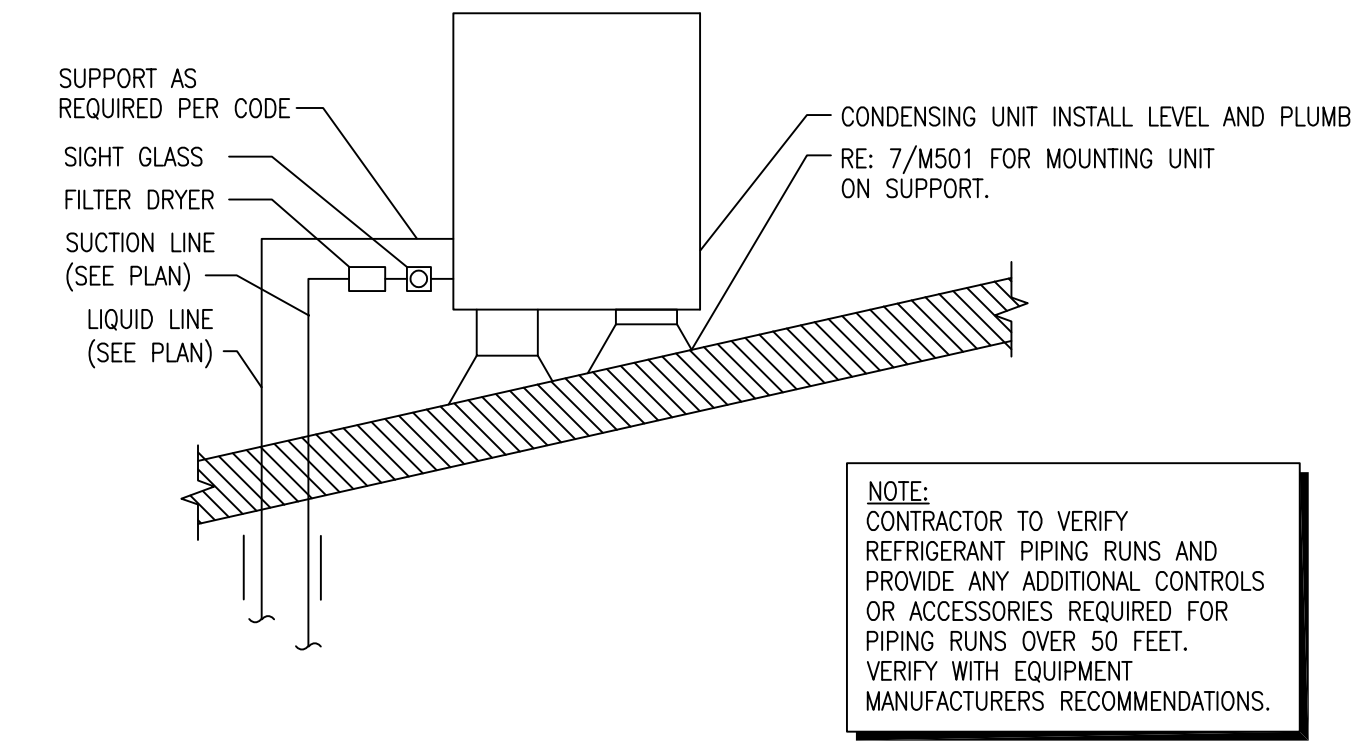
8 VENT TERMINATION DETAIL
NOT TO SCALE



3 PENETRATION DAM/
SEALER POCKET DETAIL
NOT TO SCALE



2 TYPICAL FURNACE AIR BALANCING SCHEMATIC
NOT TO SCALE



1 CONDENSING UNIT MOUNTING DETAIL
NOT TO SCALE



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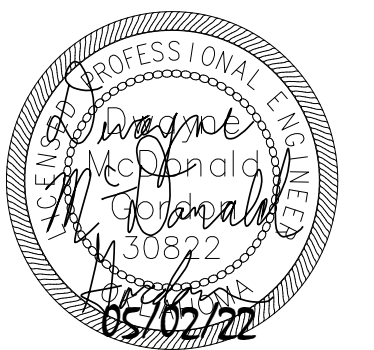
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GRILLE, REGISTER, AND DIFFUSER SCHEDULE					
PLAN SYMBOL	DESCRIPTION	MANUFACTURER & MODEL NO.	MATERIAL	FINISH	NOISE CRITERIA
CDR-1	SQUARE FACE, ROUND NECK, 4-WAY DEFLECTION CEILING DIFFUSER, SPRING LOCK INNER CORE, FOR LAY-IN CEILING INSTALLATION.	PRICE SCD (4C)	STEEL	WHITE	-
CDR-2	SQUARE FACE, ROUND NECK, 4-WAY DEFLECTION CEILING DIFFUSER, SPRING LOCK INNER CORE, FOR SURFACE MOUNT 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 80	ALUMINUM	WHITE	-
EG-2	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 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	LOW PRESSURE			MED. PRESS.		HIGH PRESS.		INSULATION			
	MAX. PRES.	A	B	C	SEAL A	SEAL A	INTERNAL	THICKNESS	EXTERNAL	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	-

NOTES:

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	750	0.5	1,040	FRAC.	120/1	3.8	MOD	DIRECT	CENT	AHU-2	43	GREENHECK G-120-VG	ALL
2	ROOF	EXHAUST	75	0.35	944	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.

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	CHASE	100	WALL	2	WALL	208/1	9.6	1	INT.	-	BERKO FRC-4020	1-3
2	CHASE	100	WALL	2	WALL	208/1	9.6	1	INT.	-	BERKO FRC-4020	1-3

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1. PROVIDE INTERNAL THERMOSTAT.
2. RECESSED MOUNTED UNIT. PROVIDE RECESSED MOUNTING KIT.
3. MANUFACTURER PROVIDED BUILT-IN DISCONNECT.
4. WALL MOUNTING HEIGHT AFF AT A MINIMUM OF 18" OR PER MANUFACTURER'S RECOMMENDATION.

ROOF HOOD SCHEDULE							
RH #	THROAT SIZE DIMENSION (IN)	THROAT AREA (FT²)	DAMPER BDD OR MOD	CONSTRUCTION	MANUFACTURER & MODEL NO.	COMMENTS	NOTES
1	14X18	1.75	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	14X18	1.75	MOD	ALUMINUM	GREENHECK FGI	COLOR BY ARCHITECT	1-3
5	14X18	1.75	MOD	ALUMINUM	GREENHECK FGI	COLOR BY ARCHITECT	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. 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.

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.F.	BLOWER MOTOR	ELEC. CHAR	MCA		MANUFACTURER & MODEL NO.
1	4	208/1	28.2	45	17	295	YORK YFK48B21S	1550	0.3	-	SEE FURNACE SCHEDULE	-	YORK CM48CBCA1	1-7
2	4	208/1	28.2	45	17	295	YORK YFK48B21S	1500	0.3	-	SEE FURNACE SCHEDULE	-	YORK CM48CBCA1	1-7
3	4	208/1	28.2	45	17	295	YORK YFK48B21S	1500	0.3	-	SEE FURNACE SCHEDULE	-	YORK CM48CBCA1	1-7
4	4	208/1	28.2	45	17	295	YORK YFK48B21S	1400	0.3	-	SEE FURNACE SCHEDULE	-	YORK CM48CBCA1	1-7
5	5	208/1	31.4	50	17	295	YORK YFK60B21S	1800	0.3	-	SEE FURNACE SCHEDULE	-	YORK CM60CXA2	1-7
6	4	208/1	28.2	45	17	295	YORK YFK48B21S	1550	0.3	-	SEE FURNACE SCHEDULE	-	YORK CM48CBCA1	1-7
7	4	208/1	28.2	45	17	295	YORK YFK48B21S	1500	0.3	-	SEE FURNACE SCHEDULE	-	YORK CM48CBCA1	1-7
8	5	208/1	31.4	50	17	295	YORK YFK60B21S	1850	0.3	-	SEE FURNACE SCHEDULE	-	YORK CM60CXA2	1-7
9	4	208/1	28.2	45	17	295	YORK YFK48B21S	1400	0.3	-	SEE FURNACE SCHEDULE	-	YORK CM48CBCA1	1-7
10	4	208/1	28.2	45	17	295	YORK YFK48B21S	1400	0.3	-	SEE FURNACE SCHEDULE	-	YORK CM48CBCA1	1-7
11	4	208/1	28.2	45	17	295	YORK YFK48B21S	1500	0.3	-	SEE FURNACE SCHEDULE	-	YORK CM48CBCA1	1-7
12	4	208/1	28.2	45	17	295	YORK YFK48B21S	1400	0.3	-	SEE FURNACE SCHEDULE	-	YORK CM48CBCA1	1-7

NOTES:
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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.

GAS FURNACE SCHEDULE																
F #	TYPE	INPUT MBH	OUTPUT MBH	CFM	MIN F.A.	EXT. S.P.	HEAT EXCH. MTL	BLOWER				FILTER MERV 8 MIN.	MANUFACTURER & MODEL NO.	NOTES		
								SIZE	DRIVE	H.P.	ELEC. CHAR					
1	VERT	80	77	1550	345	0.6	ALUMINIZED STL	11X10	DIRECT	3/4	120/1	HOT S	3"	2" TA	YORK TM9V080C16MP12C	1-3
2	VERT	80	77	1500	345	0.6	ALUMINIZED STL	11X10	DIRECT	3/4	120/1	HOT S	3"	2" TA	YORK TM9V080C16MP12C	1-3
3	VERT	80	77	1500	360	0.6	ALUMINIZED STL	11X10	DIRECT	3/4	120/1	HOT S	3"	2" TA	YORK TM9V080C16MP12C	1-3
4	VERT	80	77	1400	295	0.6	ALUMINIZED STL	11X10	DIRECT	3/4	120/1	HOT S	3"	2" TA	YORK TM9V080C16MP12C	1-3
5	VERT	100	96	1800	415	0.6	ALUMINIZED STL	11X11	DIRECT	1	120/1	HOT S	3"	2" TA	YORK TM9V100C20MP12C	1-3
6	VERT	80	77	1550	375	0.6	ALUMINIZED STL	11X10	DIRECT	3/4	120/1	HOT S	3"	2" TA	YORK TM9V080C16MP12C	1-3
7	VERT	80	77	1500	375	0.6	ALUMINIZED STL	11X10	DIRECT	3/4	120/1	HOT S	3"	2" TA	YORK TM9V080C16MP12C	1-3
8	VERT	100	96	1850	390	0.6	ALUMINIZED STL	11X11	DIRECT	1	120/1	HOT S	3"	2" TA	YORK TM9V100C20MP12C	1-3
9	VERT	80	77	1400	295	0.6	ALUMINIZED STL	11X10	DIRECT	3/4	120/1	HOT S	3"	2" TA	YORK TM9V080C16MP12C	1-3
10	VERT	80	77	1400	295	0.6	ALUMINIZED STL	11X10	DIRECT	3/4	120/1	HOT S	3"	2" TA	YORK TM9V080C16MP12C	1-3
11	VERT	80	77	1500	350	0.6	ALUMINIZED STL	11X10	DIRECT	3/4	120/1	HOT S	3"	2" TA	YORK TM9V080C16MP12C	1-3
12	VERT	80	77	1400	295	0.6	ALUMINIZED STL	11X10	DIRECT	3/4	120/1	HOT S	3"	2" TA	YORK TM9V080C16MP12C	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.

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.