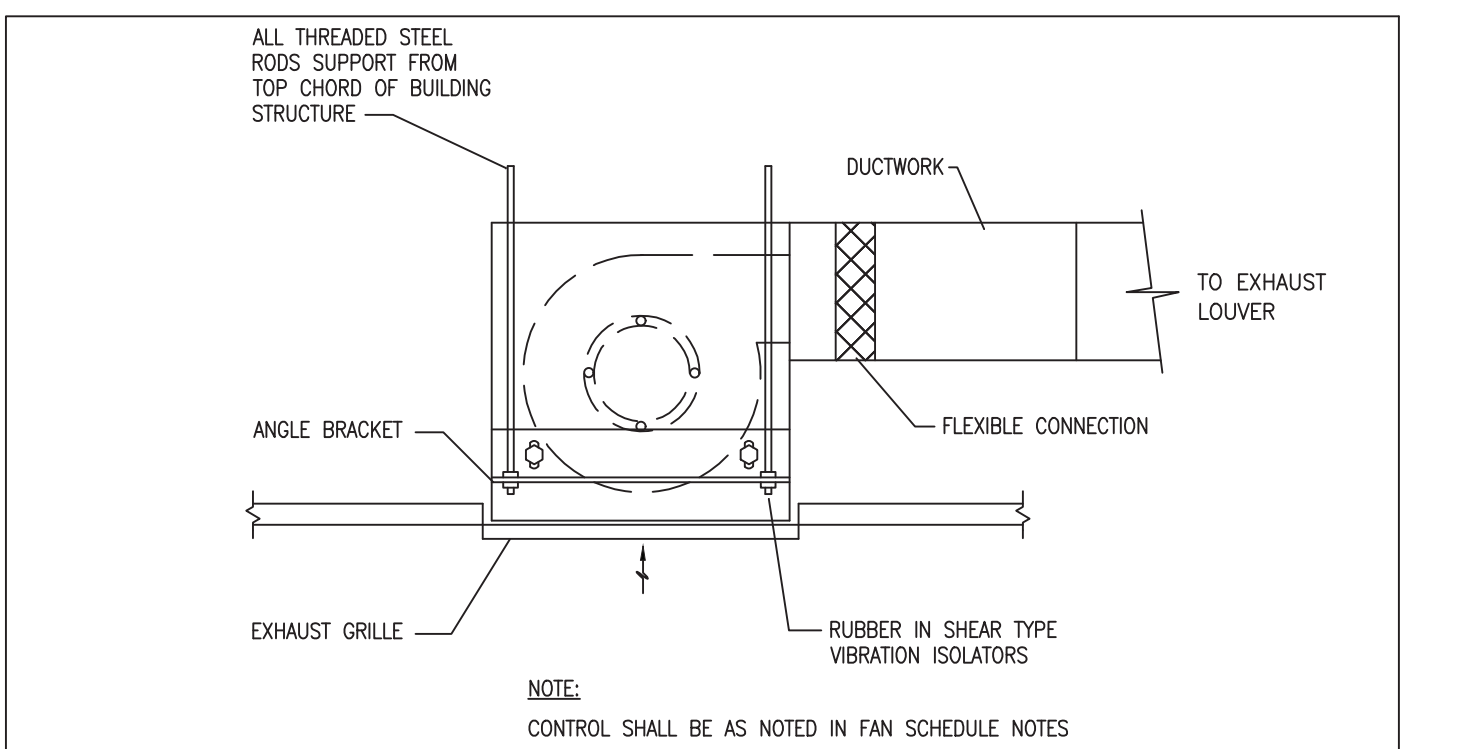
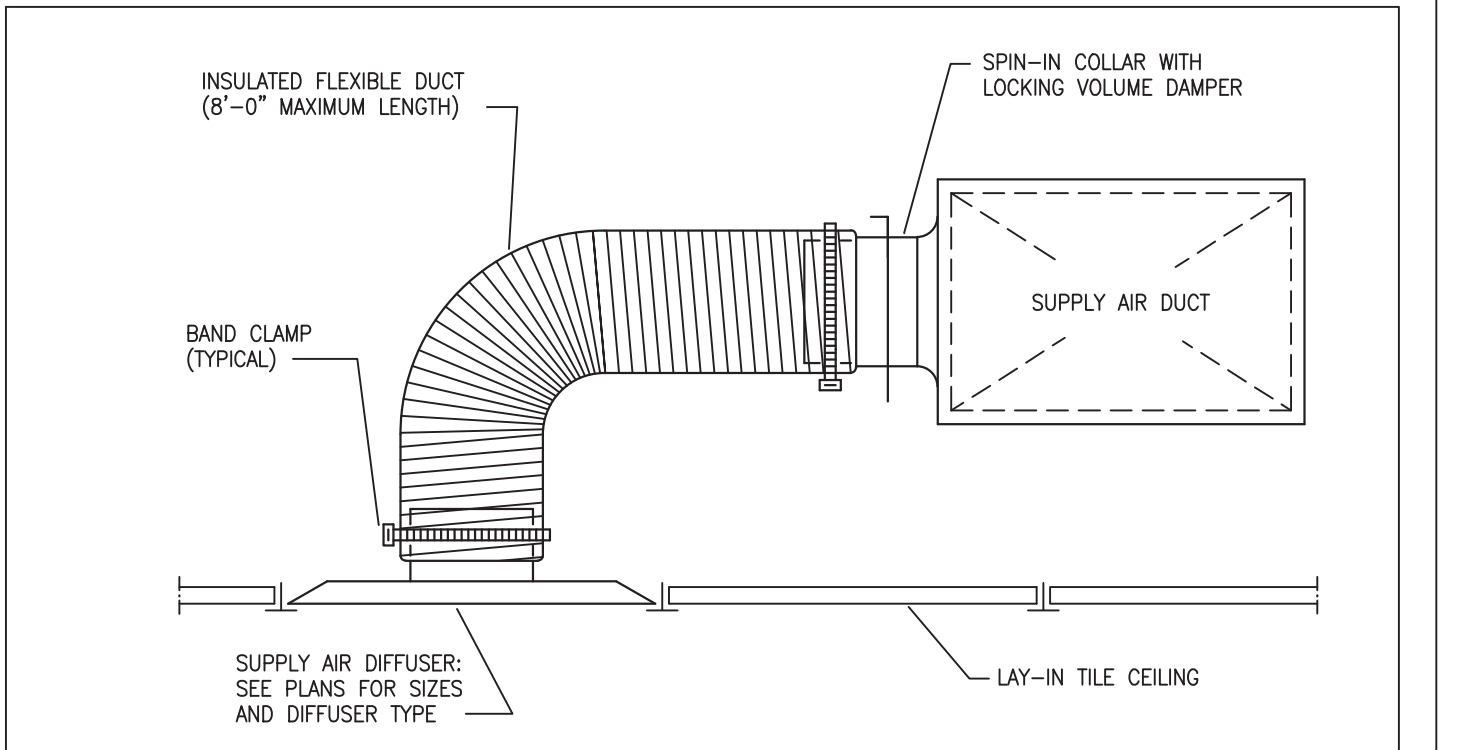


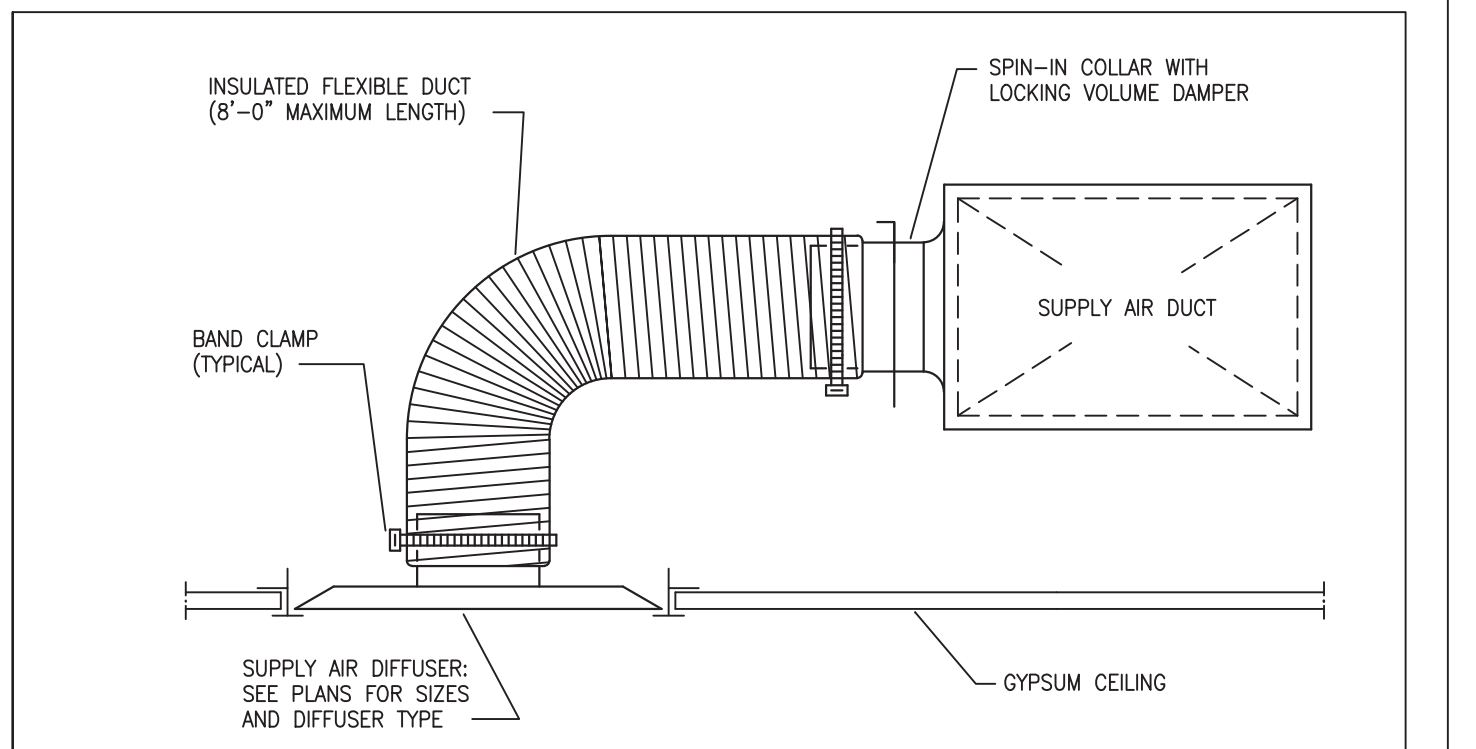
1 DUCTWORK FITTINGS DETAIL
NOT TO SCALE



2 CEILING CABINET EXHAUST FAN DETAIL
NOT TO SCALE



3 SUPPLY AIR DIFFUSER IN ACOUSTICAL CEILING
NOT TO SCALE

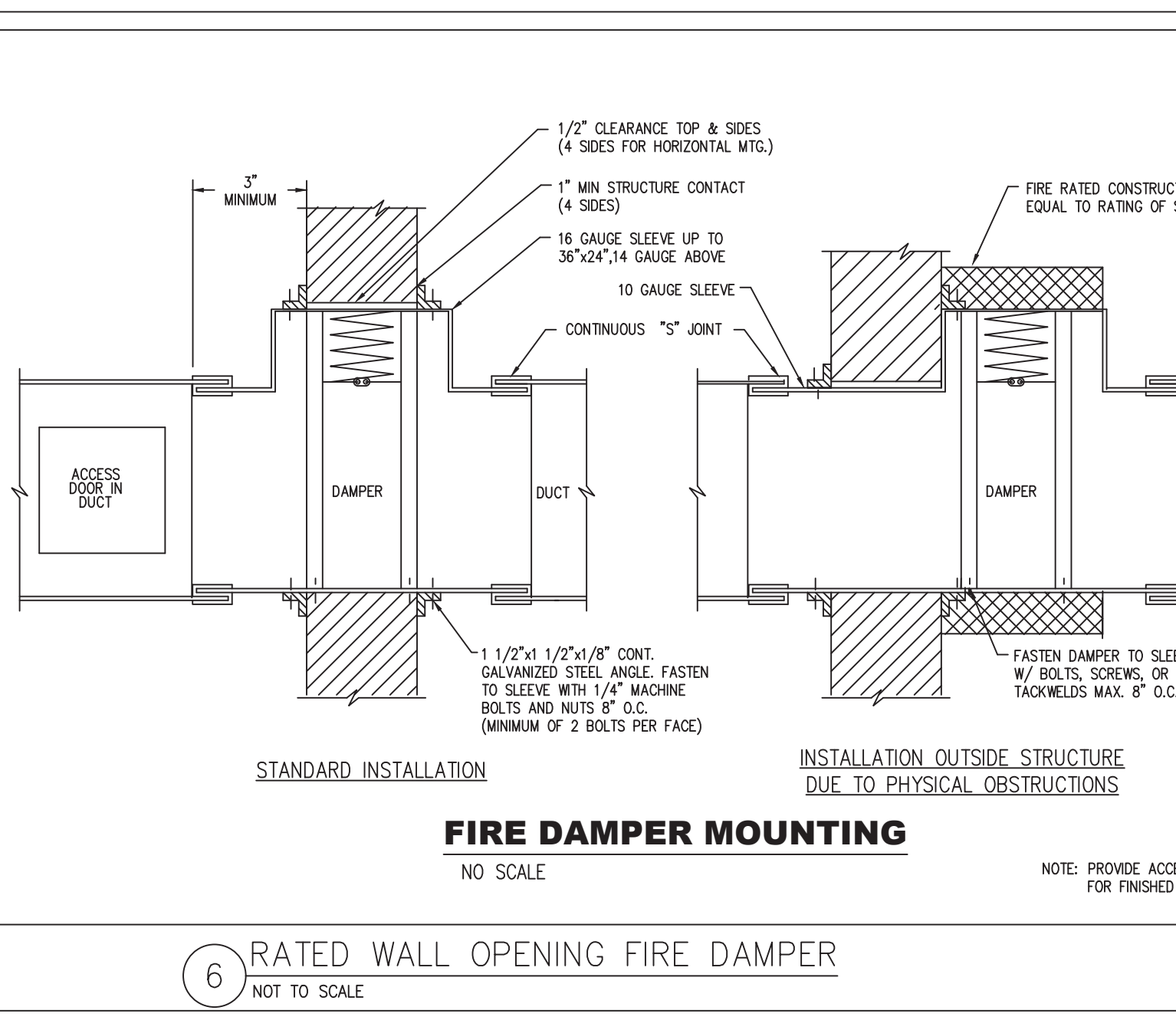
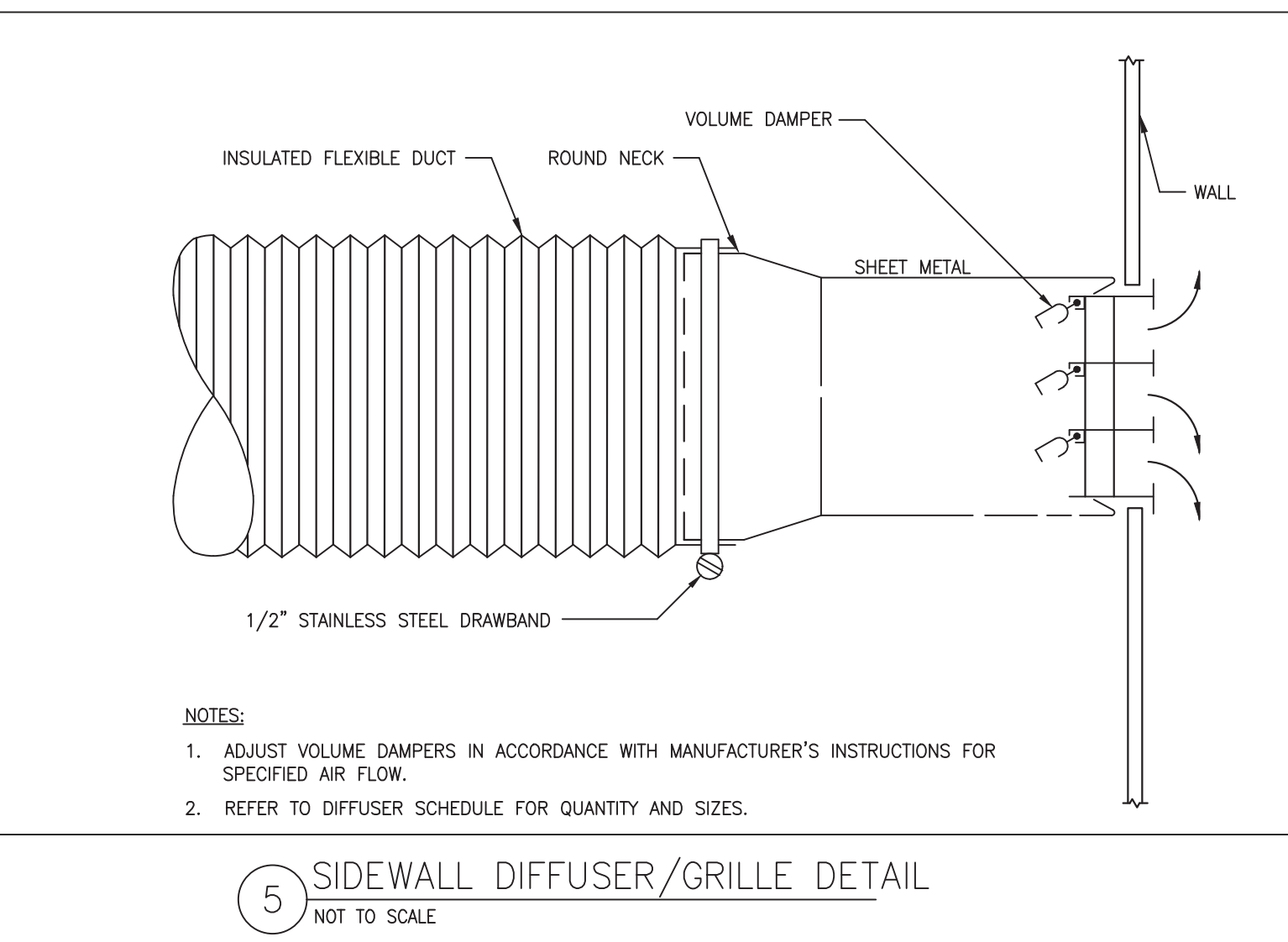


4 SUPPLY AIR DIFFUSER IN GYPSUM CEILING
NOT TO SCALE

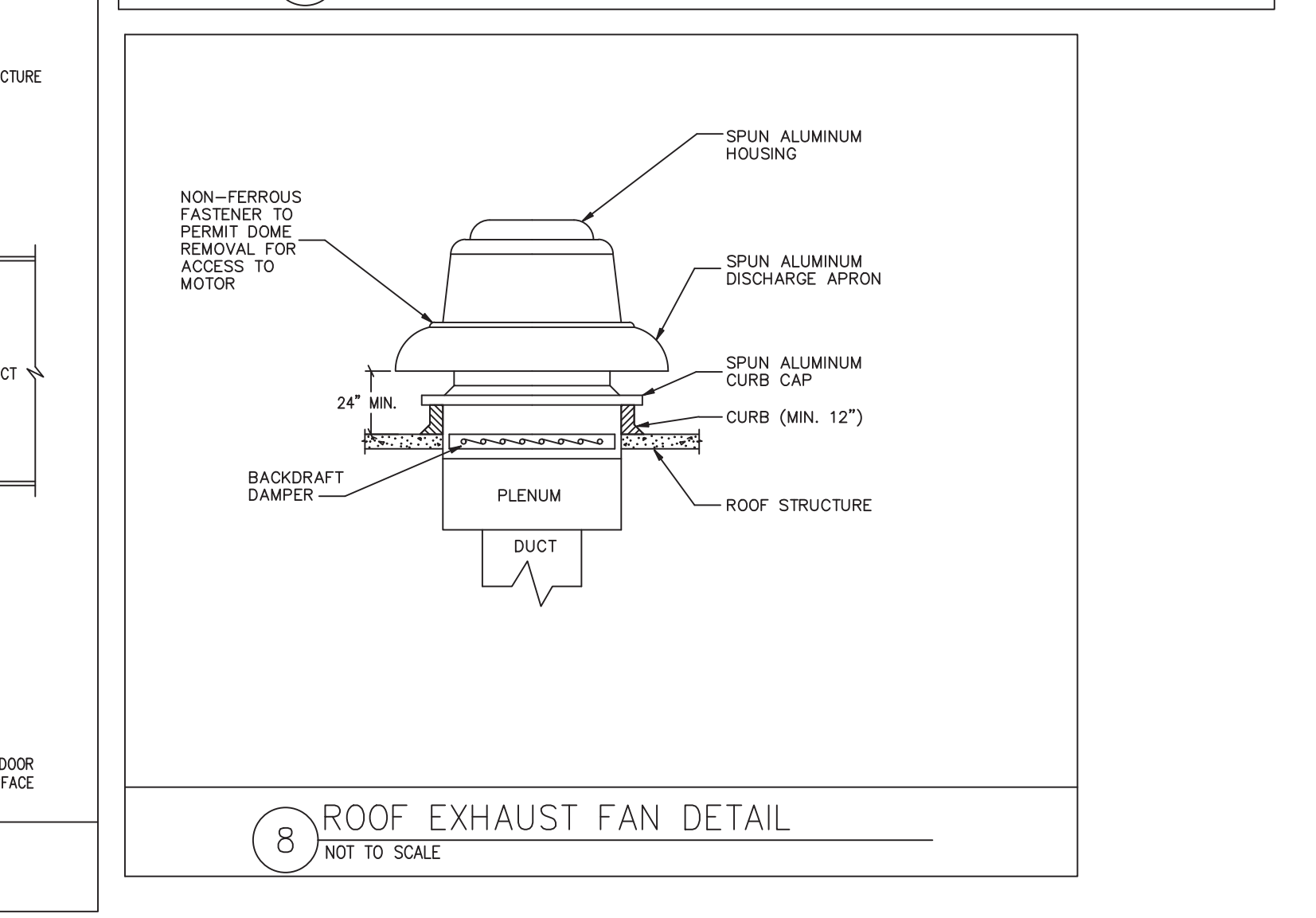
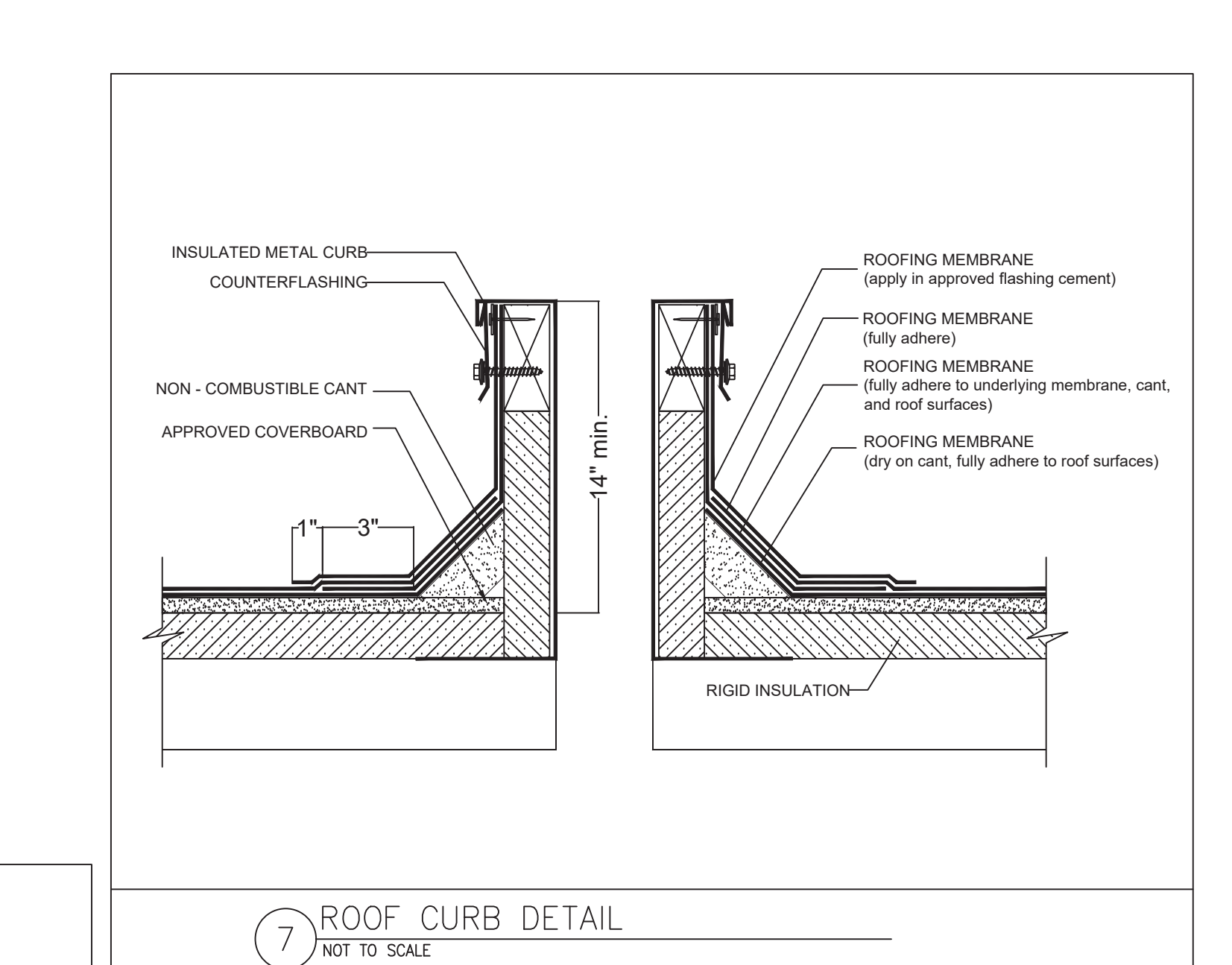
GAS PACKAGE ROOFTOP UNIT SCHEDULE																
UNIT DESIGNATION	TOTAL CFM	MINIMUM G.A. CFM	NOMINAL TONS	FAN BHP	E.S.P. IN. W.G.	GAS HEATER EFF.	GAS HEATER INPUT (BTU/H)	GAS HEATER OUTPUT (BTU/H)	TOTAL MBH	SENSIBLE MBH	OA DB (°F)	EER AT AIR	IEER AT AIR	V/PH/HZ	MCA	MOCP
RTU 1	3,000	530	7.5	2.4	1.0	82.0%	224,000	184,000	86.8	54.1	95	12.0	13.8	208/3/60	50	60
RTU 2	4,750	600	12.5	3.7	1.0	81.0%	240,000	195,000	141.6	93.4	95	12.2	13.9	208/3/60	68	80
RTU 3	4,000	400	10.0	3.7	1.0	80.0%	250,000	205,000	113.6	70.5	95	11.5	12.7	208/3/60	62	70
RTU 4	3,000	450	7.5	2.4	1.0	82.0%	224,000	184,000	86.8	54.1	95	12.0	13.8	208/3/60	50	60
RTU 5	4,000	ERV 2000	10.0	3.7	1.0	80.0%	250,000	205,000	113.6	70.5	95	11.5	12.7	208/3/60	81	90
NOTES: 1. THRU-THE-BASE GAS CONNECTION 2. TWO (2) STAGE COOLING 3. SINGLE (1) STAGE COOLING 4. TWO (2) STAGE GAS HEATING 5. SINGLE (1) STAGE GAS HEATING 6. HIGH STATIC BELT DRIVE BLOWER 7. MEDIUM STATIC BELT DRIVE BLOWER 8. 2-SPEED INDOOR FAN MOTOR CONTROLLED BY VFD 9. PROVIDE LOW AMBIENT COOLING TO 40°F MINIMUM OR 0°F (WHERE AVAILABLE) 10. HINGED ACCESS DOOR & SIDE FILTER ACCESS DOOR KIT. 11. HORIZONTAL AIRFLOW DISCHARGE 12. ENTHALPY LOW LEAK ECONOMIZER W/ ERV & HOODS 13. ENTHALPY LOW LEAK ECONOMIZER W/ BAROMETRIC RELIEF & HOODS 14. PROVIDE DEHUMIDIFICATION OPTION W/ HUMIDITY SENSOR 15. PROVIDE CARRIER 7-DAY PROGRAMMABLE THERMOSTAT OR EQUAL 16. PROVIDE POWERED CONVENIENCE OUTLET 17. PROVIDE 14 INCH TALL ROOF CURB																
SCHEDULE NOTES FOR RTU-5 (WITH ERV): 1. BASIS OF DESIGN IS CARRIER 48HCFE12K2AA50TH W/ ENERGY ERV W/ ECONOMIZER AND FREEZE PROTECTION, ONLY PREAPPROVED ALTERNATES MEETING ALL THE PROJECT REQUIREMENTS WILL BE CONSIDERED 2. IN ORDER TO BE CONSIDERED AN ACCEPTABLE ALTERNATE, PROPOSED UNIT MUST MEET THE SPECIFIED PERFORMANCE INCLUDING, BUT NOT LIMITED TO, DX COIL LEAVING DEWPOINT (DP-47) 3. PROVIDE UNITS WITH THE FOLLOWING FEATURES: a. 2" DOUBLE WALL FOAM INJECTED R13 INSULATED CASING (INCLUDING R13 INSULATED BASE), ENTIRELY PRE-PANDED EXTERIOR b. DIGITAL SCROLL COMPRESSOR, BOTH CIRCUITS (IF APPLICABLE); HOT GAS BYPASS IS NOT ACCEPTABLE c. MODULATING HOT GAS REHEAT WITH ACTIVE HEAD PRESSURE CONTROL VFD DRIVEN CONDENSER FANS TO ENSURE 70 DEG F UNIT LEAVING AIR TEMPERATURE d. GLV LIGHTS BETWEEN DX AND HOT GAS REHEAT COIL e. DIRECT DRIVE PLENUM SUPPLY AND POWERED EXHAUST FANS W/VFD AND PIEZO RINGS FOR AIR MEASUREMENT f. BOTH FANS SHALL HAVE SLIDE-OUT FEATURE FOR SERVICEABILITY																
1. MODULATING GAS HEATING (10:1 TURNDOWN) g. COMPARATIVE ENTHALPY ECONOMIZER CONTROL h. ALL ALUMINUM ENERGY RECOVERY WHEEL WITH BYPASS DAMPERS AND SLIDE OUT FOR SERVICEABILITY i. WHEEL SHALL HAVE A PURGE RATED FOR NO MORE THAN 0.04% CROSSOVER BETWEEN SUPPLY AND EXHAUST AIR PATH j. ALL OUTDOOR AIR SHALL PASS THRU THE WHEEL WHEN UNIT IS IN NO ECONOMIZING k. MEV B FILTRATION l. NON-FUSED DISCONNECT SWITCH W/CONVENIENCE OUTLET m. BACNET COMPATIBLE DDC CONTROLLER INCLUDING PROGRAMMING/SEQUENCING AND SENSORS AS REQUIRED FOR CONSTANT VOLUME SPACE CONTROL n. AUTO-RESTART AFTER A POWER FAILURE o. STANDARD MANUFACTURER KNOCKDOWN CURB p. STARTUP & 1-YEAR WARRANTY LABOR BY MANUFACTURER; EXTENDED 5 YEAR COMPRESSOR PARTS ONLY WARRANTY																

EXHAUST FAN SCHEDULE											
PERFORMANCE DATA			CONSTRUCTION DATA		ELECTRICAL DATA						
MARK	CFM	SP (IN. W.G.)	RPM	TYPE	DRIVE	MOTOR H.P. (WATTS)	VOLT	PH	MAX. WEIGHT (LB)	MANUFACTURER OR EQUAL	NOTES
EF 1	70	0.375	838	CEILING MOUNTED	DIRECT	(24-1)	115	1	12	GREENHECK SP-A50-90-VG	1,2,6,7
EF 2	1380	0.500	1385	ROOF MOUNTED	DIRECT	1/2	115	1	65	GREENHECK G-120-VG	4,5,6,7
EF 3	1000	0.500	1650	ROOF MOUNTED	DIRECT	1/4	115	1	56	GREENHECK G-099-VG	3,4,5,6,7
EF 4	220	0.250	1664	INLINE MOUNTED	DIRECT	1/15	115	1	41	GREENHECK SQ-70-VG	4,6,7
NOTES: 1. FANS IN RESTROOMS SHALL SWITCH WITH LIGHT. 2. FANS IN BATHING, MOP CLOSETS, & EXAM ROOMS SHALL ENERGIZE WITH WALL SWITCH. 3. FANS IN ISOLATION & OXYGEN ROOMS SHALL RUN CONTINUOUSLY. 4. FANS IN HOUSING, RUNS, & WARDS SHALL RUN CONTINUOUSLY. 5. PROVIDE 12" ROOF CURB FOR ALL ROOF EXHAUST CAPS ON FLAT ROOF. 6. STANDARD PREWIRED DISCONNECT SWITCH. 7. VIBRATION ISOLATORS AND BRACKETS.											

LOUVER SCHEDULE						
TYPE	SERVICE	CFM	DIMENSIONS WxHxH	FREE AREA FT ²	FINISH	BASIS OF DESIGN
L 1	EXHAUST	220	15"x10"x2"	0.28	ALUMINUM	GREENHECK: ESJ-202
L 2	EXHAUST	140	13"x10"x2"	0.23	ALUMINUM	GREENHECK: ESJ-202
L 3	OUTSIDE AIR INTAKE	70	11"x7"x2"	0.10	ALUMINUM	GREENHECK: ESJ-202
NOTES: 1. COORDINATE WITH OWNER FINAL COLOR & FINISH (IF PAINTED). 2. CONTRACTOR SHALL CONFIRM ACTUAL FINAL DIMENSIONS WITH VENDOR.						



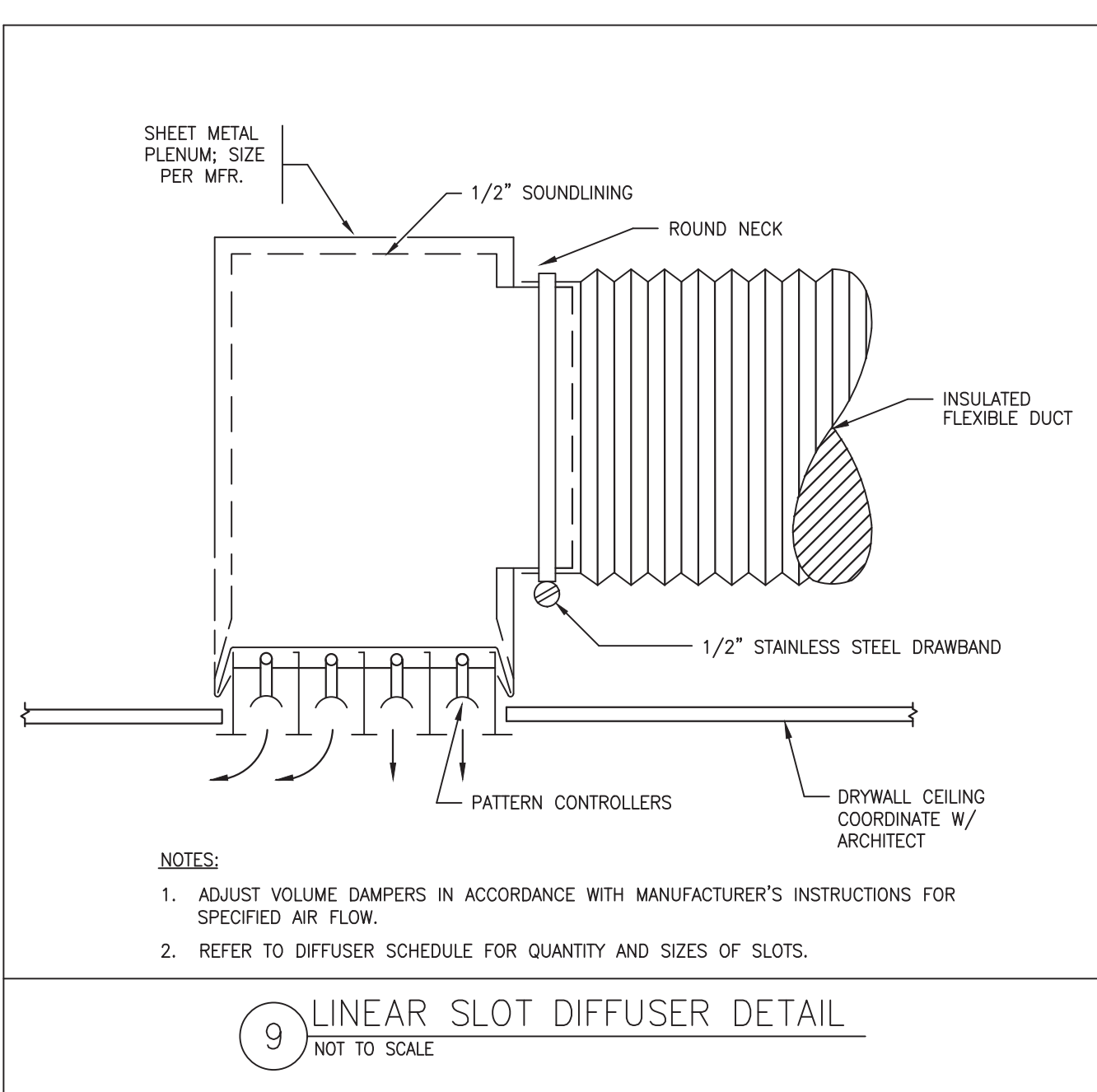
DIFFUSER, REGISTER AND GRILLE SCHEDULE									
TYPE	SERVICE	CFM RANGE	FACE DIMENSION	NECK DIMENSION	FINISH	BASIS OF DESIGN	NOTES		
①	SUPPLY AIR DIFFUSER	0 - 125	24"x24"	6"	WHITE	TUTTLE & BAILEY: T1100	1,2,3,4,5,7		
		126 - 250		8"					
		251 - 400		10"					
②	SUPPLY AIR DIFFUSER	0 - 125	12"x12"	6"	WHITE	TUTTLE & BAILEY: T1100	1,2,3,4,5,7		
		126 - 250		8"					
		251 - 400		10"					
③	SUPPLY AIR DIFFUSER	126 - 250	48"x25"	8"	WHITE	TUTTLE & BAILEY: 4000	1,2,4,5,7,9		
④	SUPPLY AIR DIFFUSER	251 - 400	48"x3"	10"	WHITE	TUTTLE & BAILEY: 4000	1,2,4,5,7,9		
①	RETURN AIR DIFFUSER	0 - 125	24"x24"	6"	WHITE	TUTTLE & BAILEY: PR	1,2,6,7		
		126 - 250		8"					
		251 - 400		10"					
		401 - 600		12"					
②	RETURN AIR DIFFUSER	0 - 125	12"x12"	6"	WHITE	TUTTLE & BAILEY: PR	1,2,6,7		
		126 - 250		8"					
		251 - 400		10"					
③	RETURN AIR DIFFUSER	851 - 1000	24"x8"	N/A	WHITE	TUTTLE & BAILEY: 4000	1,2,5,8,9		
①	EXHAUST AIR GRILLE	101 - 250	24"x24"	8"	WHITE	TUTTLE & BAILEY: PR	1,2,6,7		
		251 - 400		10"					
		401 - 600		12"					
②	EXHAUST AIR GRILLE	0 - 125	12"x12"	6"	WHITE	TUTTLE & BAILEY: PR	1,2,6,7		
③	INTAKE AIR GRILLE	126 - 250	20"x20"	18"x18"	WHITE	TUTTLE & BAILEY: PR	1,2,6,7		
④	DOOR TRANSFER GRILLE	251 - 400	16"x16"	N/A	WHITE	TUTTLE & BAILEY: DXFR	1,2		
NOTES:									
1. COORDINATE WITH OWNER COLOR & FINISH.									
2. CONTRACTOR SHALL CONFIRM ACTUAL FINAL DIFFUSER DIMENSIONS WITH VENDOR, AND COORDINATE W/ CEILING/WALL/DOOR TYPE AS NECESSARY.									
3. 4 WAY THROW PATTERN.									
4. PROVIDE WITH OPPOSED BLADE DAMPER.									
5. PROVIDE INSULATED BACKUPS WHEN INSTALLED ABOVE CEILINGS, UNCONDITIONED, AND/OR PARTIALLY CONDITIONED SPACE.									
6. PERFORATED PATTERN.									
7. CEILING MOUNTED.									
8. WALL MOUNTED.									
9. AD CORE, STANDARD UNIT, & 1/2" MARGINS									



AIR CLEANING UNIT SCHEDULE							
MARK	MFR*	MODEL	MAX AIR TEMP. (°F)	TUBE QTY.	CURRENT AMP	POWER WATTS	WEIGHT LBS.
ACU 1	ATMOS AIR	500EC	200	5	0.6	52	115/1/60
NOTES: 1. MANUFACTURER OR APPROVED EQUAL 2. UNIT SHALL BE INSTALLED IN THE SUPPLY DUCT DISCHARGE AIR 3. UNIT SHALL INTERLOCK TO ENERGIZE WITH RTU FAN OR AIR PRESSURE SWITCH 4. PROVIDE NEMA 5-15 PLUG OR 3 WIRE TO JUNCTION BOX 5. COORDINATE WITH ELECTRICAL CONTRACTOR.							

ELECTRIC HEATER SCHEDULE							
		CONSTRUCTION DATA		ELECTRICAL DATA			
MARK	AREA / SERVICE	CFM	TYPE	KW	VOLT	PH	AMPS
EH 1	ENTRY/EXIT	100	WALL MOUNTED	2	208/230	1	8.3
NOTES: 1. ELECTRICAL CORD SHALL BE CONCEALED W/ CASING. 2. BUILT IN CONTROLLABLE THERMOSTAT							

GAS UNIT HEATER SCHEDULE							
		CONSTRUCTION DATA		ELECTRICAL DATA			
MARK	AREA / SERVICE	CFM	TYPE	GAS INPUT	GAS OUTPUT	VOLT	PH
GH 1	CREMATORY	720	CEILING/WALL MOUNTED	45,000	36,900	115	1
NOTES: 1. MAXIMUM MOUNTING HEIGHT = 10 FT. 2. BUILT IN CONTROLLABLE THERMOSTAT 3. PROVIDE VENT FOR COMBUSTION AIR & EXHAUST VENTING 4. PROVIDE HANGERS AND STRUCTURAL SUPPORT PER MFR.							



DUCT SUPPORT DETAIL				
DUCT WIDTH	ROD DIA.	SUPPORT ANGLE OR EQUIV. CHANNEL	MAXIMUM SPACING	MAXIMUM AREA *
25" TO 36"	3/8"	1 1/2" x 1 1/2" x 1/8"	8'-0" O.C.	4 SQ. FT.
37" TO 42"	3/8"	1 1/2" x 1 1/2" x 1/8"	6'-0" O.C.	10 SQ. FT.
43" TO 60"	1/2"	1 1/2" x 1 1/2" x 1/8"	6'-0" O.C.	10 SQ. FT.
61" TO 84"	1/2"	2" x 2" x 1/4"	4'-0" O.C.	-----
85" AND UP	1/2"	2" x 2" x 1/4"	4'-0" O.C.	-----

* REDUCE SPACING TO NEXT SMALLER INTERVAL IF DUCT AREA EXCEEDS MAXIMUM

10 DUCT SUPPORT DETAIL
NOT TO SCALE