

ARCHITECT SEAL MUST BE IN RED INK

OWNER

ISSUED BY:
PLATO A. MARINAKOS JR ARCHITECT, LLC
FOR "APPROVAL" BY OUR CLIENT AND CUSTOMER

CLIENT IS REQUIRED TO CHECK (X) ONE BOX APPROVED AS IS APPROVED AS NOTED ONLY

CLIENT SIGNATURE _____ DATE _____
NAME (PLEASE PRINT) _____

KINDLY RETURN ALL DRAWINGS FOR THE COMPLETE BUILDING, SIGNED AND DATED TO OUR OFFICE LOCATION

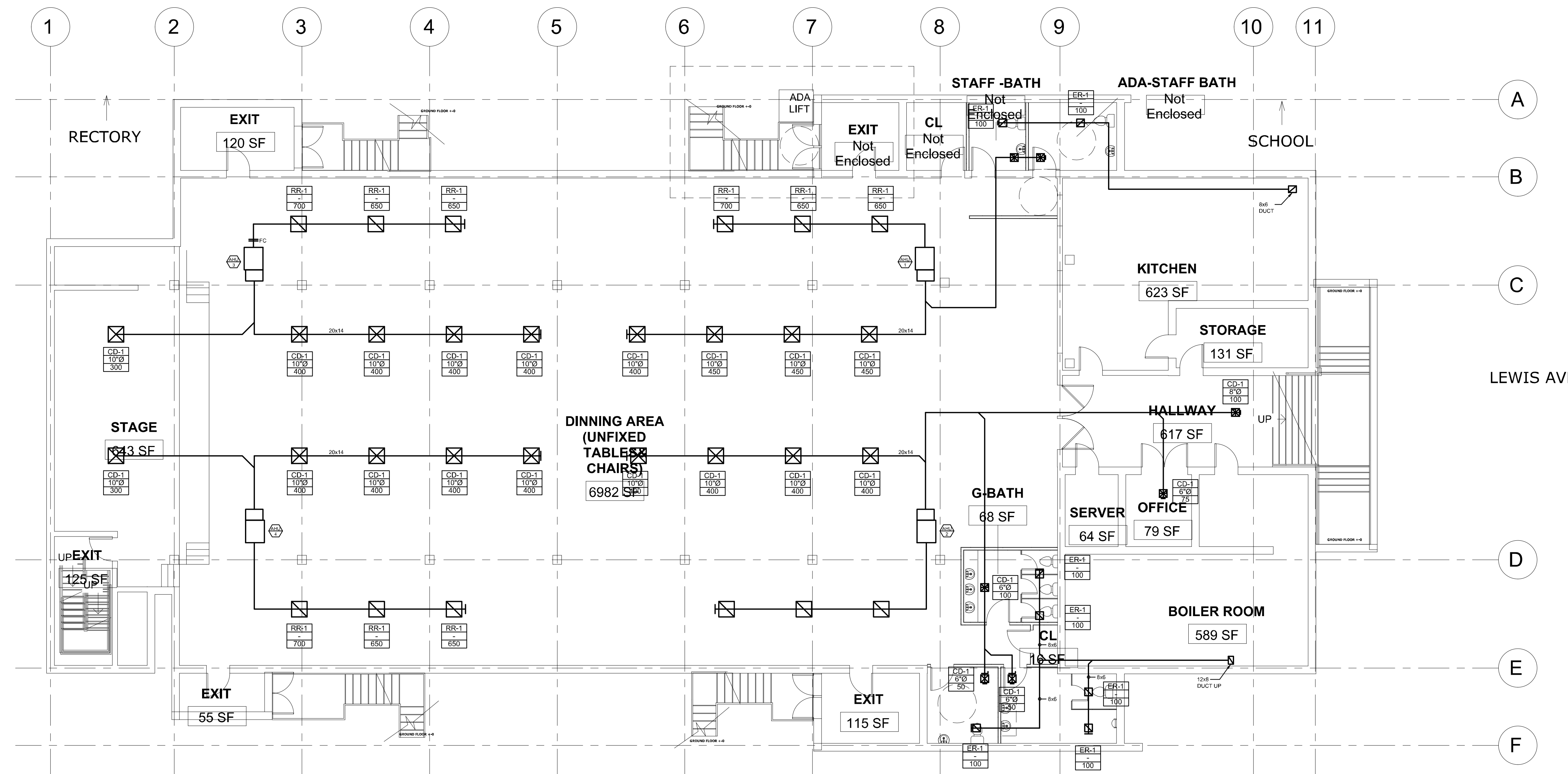
716 EMERSON AVE - CHURCH

MECHANICAL FLOOR PLANS

Project number **N/A**
Date **05/01/2021**
Drawn by **Author**
Checked by **Checker**

M100

Scale **1/8" = 1'-0"**



1 **BASEMENT PLAN**
SCALE: 1/8" = 1'-0"

(1) Commercial Products are rated in Gross MBH

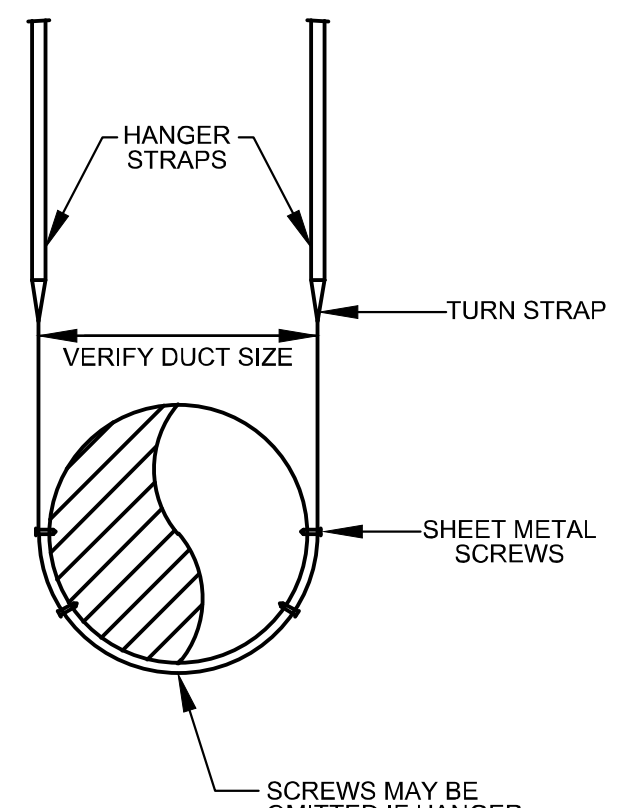
Project Name:	Emmerson Gym																											
	Supply Air Blower					Cooling					Reheat					Heating					Electrical							
Tag #	Model Number	Brand	Qty	CFM	SA	OA	HP	ESP (W/G)	Blwr RPM	Temp (°F)	Capacity MBH ¹	EER	SEER/IEER	Refrigerant	Temp (°F)	Capacity MBH ¹	Temp (°F)	MBH	Heating Gas	Electrical	Remarks							
CU-10 Ton	YC120C09A2BLAS	York	4	4000	800		0.00	0.0	0	80.0	67.0	58.0	57.0	95.0	110.2	0.0	14.0	14.0	R410A		208-3-60	41.4			50	0.0	459	

AHU - AIR HANDLING UNIT SCHEDULE														
UNIT NO.	NOM TON	CFM	EXT	MIN S.P.	ELECTRIC			GAS HEAT		SMOKE DETEC	V-PH-HZ	MFG/MODEL	REMARKS	
1	5	1900	0.5	200	6.8	15	1/2	60,000	58,200	-	120-1-60	LENNOX/EL296UH070XE60	A COIL, T-STAT. VENTS. INSTALLED PER MANUFACTURE REQUIREMENTS. SECONDARY DRAIN PAN WITH LEAK DETECTOR	
2	5	1900	0.5	200	6.8	15	1/2	60,000	58,200	-	120-1-60	LENNOX/EL296UH070XE60	A COIL, T-STAT. VENTS. INSTALLED PER MANUFACTURE REQUIREMENTS. SECONDARY DRAIN PAN WITH LEAK DETECTOR	
3	5	1900	0.5	200	6.8	15	1/2	60,000	58,200	-	120-1-60	LENNOX/EL296UH070XE60	A COIL, T-STAT. VENTS. INSTALLED PER MANUFACTURE REQUIREMENTS. SECONDARY DRAIN PAN WITH LEAK DETECTOR	
4	5	1900	0.5	200	6.8	15	1/2	60,000	58,200	-	120-1-60	LENNOX/EL296UH070XE60	A COIL, T-STAT. VENTS. INSTALLED PER MANUFACTURE REQUIREMENTS. SECONDARY DRAIN PAN WITH LEAK DETECTOR	

FAN SCHEDULE							
FAN	CFM	S.P.	FAN	HP	V-PH-HZ	MFG/MODEL	REMARKS
EF-1	700	1	1549	1/3	120-1-60	COOK/120 ACRUB	TIME CLOCK, SPEED CONTROL, ROOF CAP WITH BIRD SCREEN
EF-2	700	1	1549	1/3	120-1-60	COOK/120 ACRUB	TIME CLOCK, SPEED CONTROL, ROOF CAP WITH BIRD SCREEN

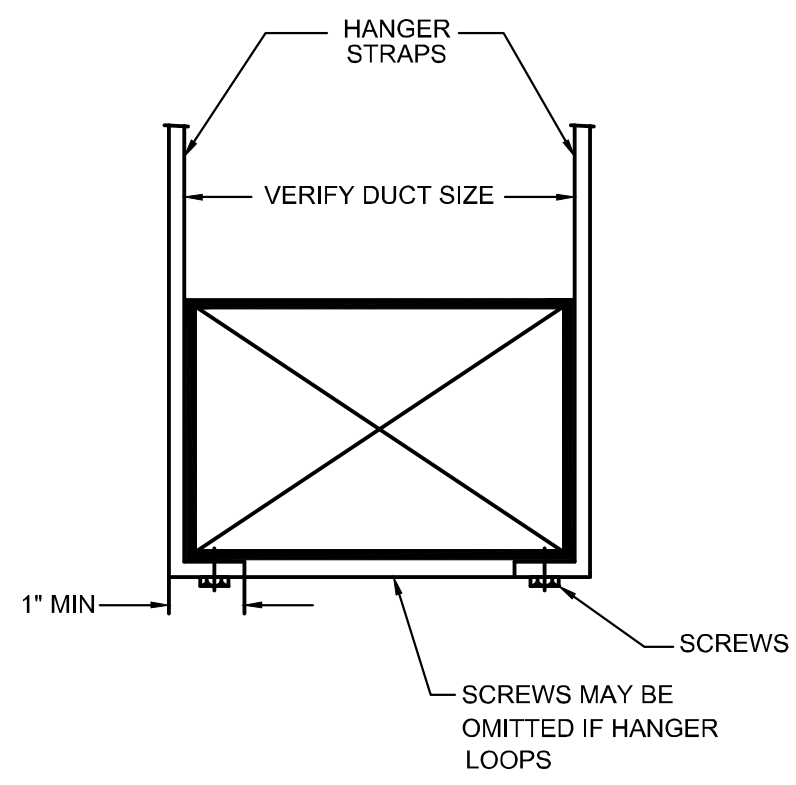
CU - OUTDOOR CONDENSER UNIT SCHEDULE												
NO.	NOM TON	SEER	COND TEMP	NO. CIRCUITS	CONDENSER FAN			MFG./MODEL	V-PH-HZ	MCA	MOP	REMARKS
					NO.	HP	CFM					
1	5	17	95	1	1	1/6	3000	LENNOX/EL16XC1-060	208-1-60	14.6	25	PROVIDE WITH FREEZESTAT, LOW AMBIENT KIT, REFRIGERANT LINE SETS.
2	5	17	95	1	1	1/6	3000	LENNOX/EL16XC1-060	208-1-60	14.6	25	PROVIDE WITH FREEZESTAT, LOW AMBIENT KIT, REFRIGERANT LINE SETS.
3	5	17	95	1	1	1/6	3000	LENNOX/EL16XC1-060	208-1-60	14.6	25	PROVIDE WITH FREEZESTAT, LOW AMBIENT KIT, REFRIGERANT LINE SETS.
4	5	17	95	1	1	1/6	3000	LENNOX/EL16XC1-060	208-1-60	14.6	25	PROVIDE WITH FREEZESTAT, LOW AMBIENT KIT, REFRIGERANT LINE SETS.

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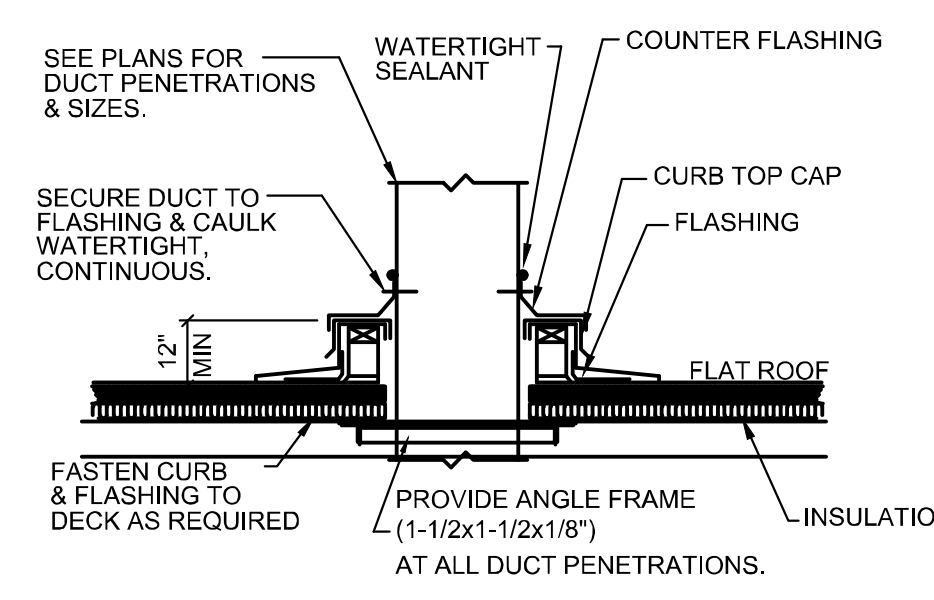
1 ROUND DUCT SUPPORT DETAIL
 M300 SCALE: NTS

NOTES: 1. REFER TO SMACNA HVAC DUCT CONSTRUCTION STANDARD



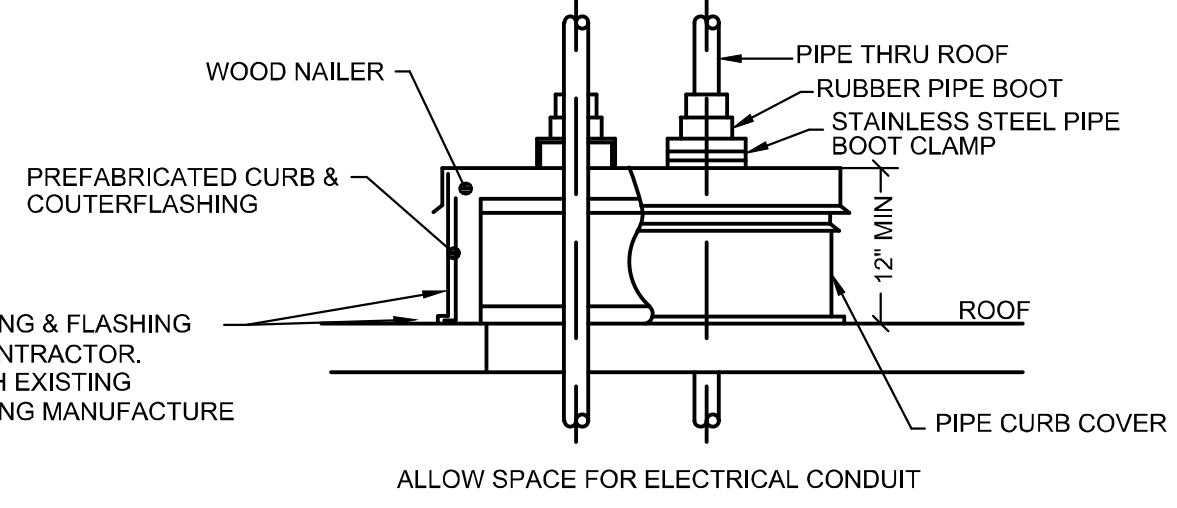
2 DUCT SUPPORT DETAIL
 M300 SCALE: NTS

NOTES: 1. REFER TO SMACNA HVAC DUCT CONSTRUCTION STANDARD
 TABLE - RECTANGULAR DUCT HANGERS MIN. SIZE SCHEDULE.

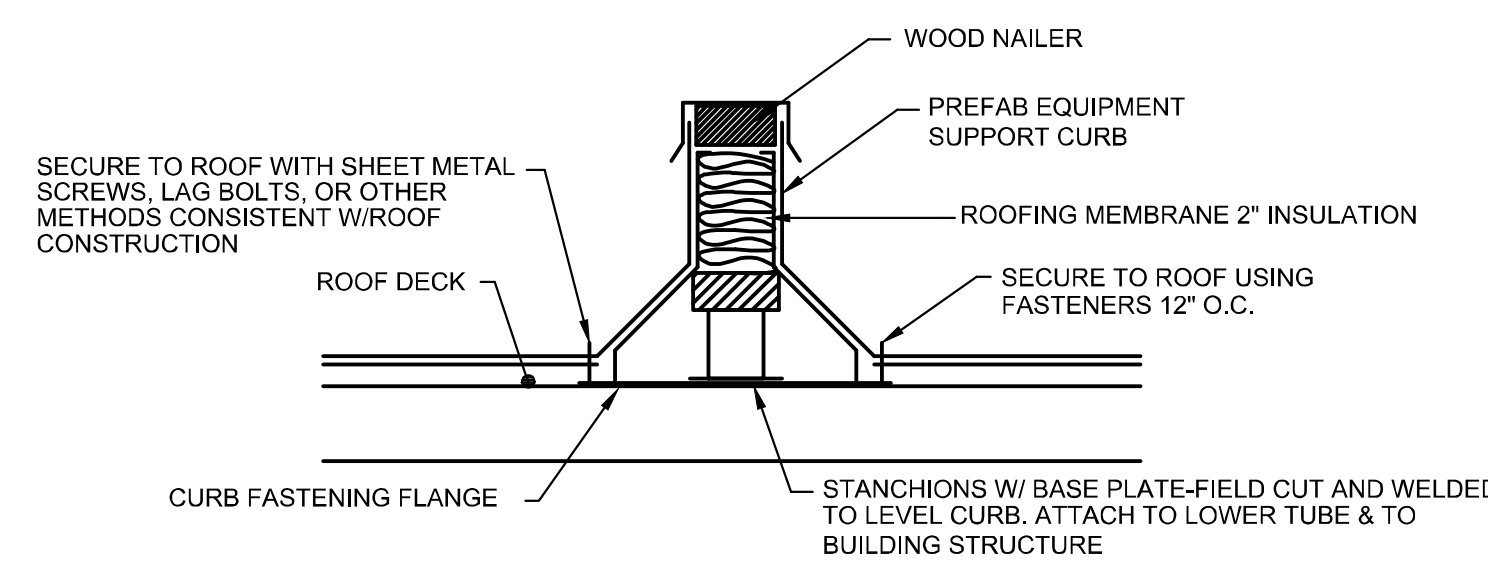


3 TYPICAL DUCT THROUGH ROOF DETAIL
 M300 SCALE: NTS

NOTE:
 SHIM CURB LEVEL AS NEEDED.

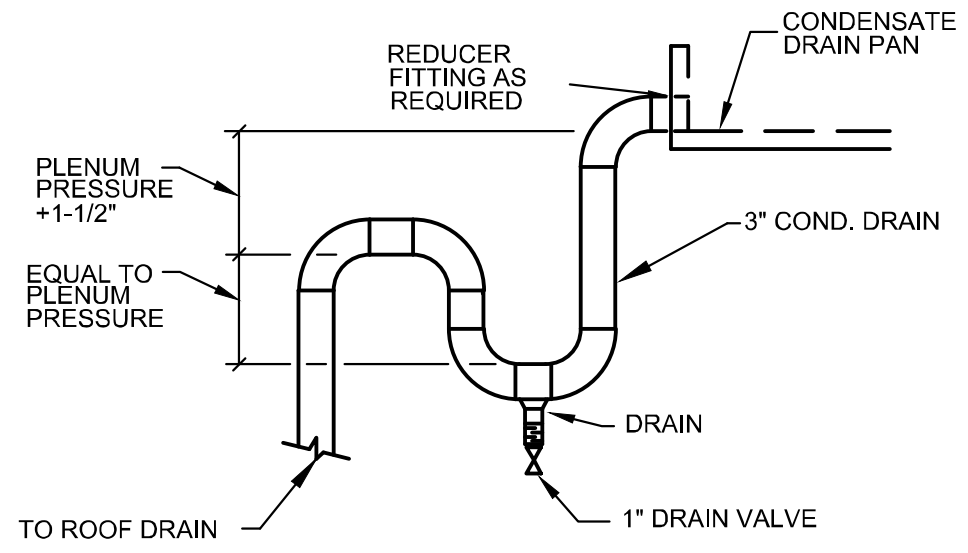


4 PIPE CURB DETAIL
 M300 SCALE: NTS



5 EQUIP/PIPE CURB SUPPORT DETAIL
 M300 SCALE: NTS

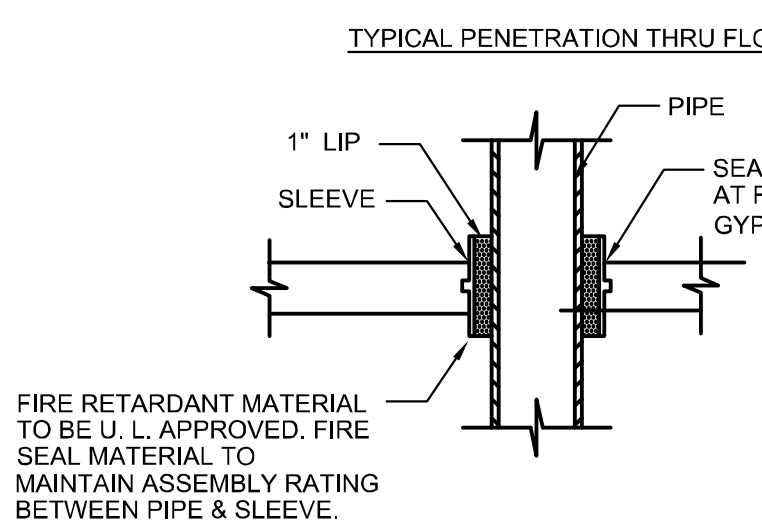
1-CURB MUST HANDLE WIND AND SEISMIC LOADS.
 2- REFER TO UNIT MANUFACTURERS ROOF CURB INSTALLATION FOR EXACT EQUIPMENT INSTALLATION.



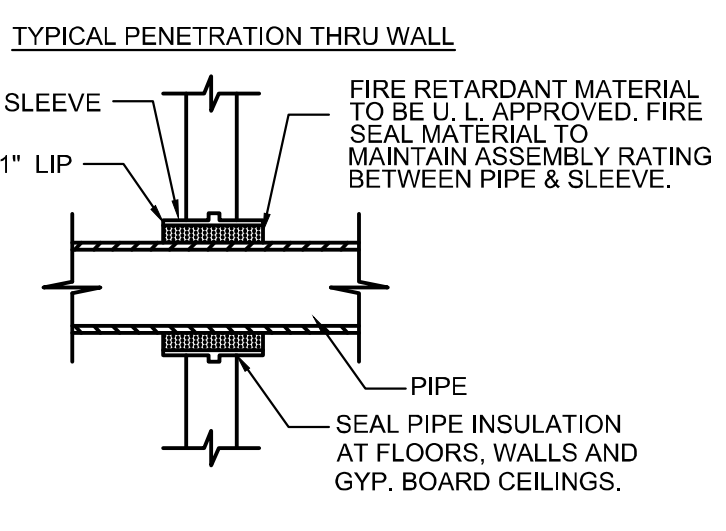
6 CONDENSATE DRAIN PIPING DETAIL
 M300 SCALE: NTS

CONDENSATE TRAP SIZE SCHEDULE	
UNIT NOMINAL TONS (MAXIMUM)	MINIMUM TRAP DIAMETER
2	3/4"
5	1"
25	1-1/4"

NOTE: SIZES ARE FOR EACH TRAP CONNECTION, EXAMPLE: AHU/2-65 TONS, REQUIRES TWO 2" TRAPS AS NOTED ON DRAWINGS.

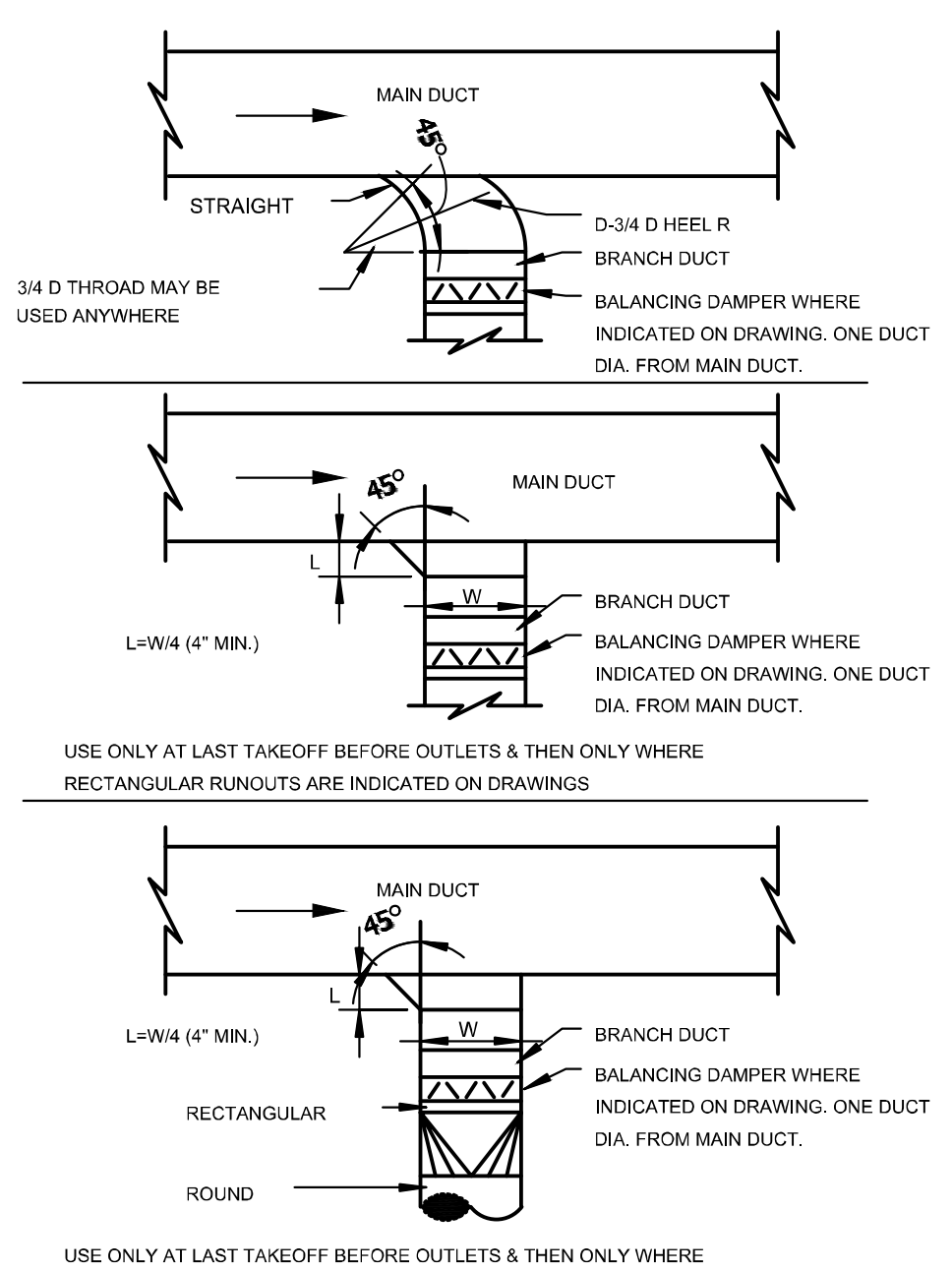


MATERIAL	U.L. NUMBER REQ'D		
	GYPSUM WALL	CMU WALL	FLOOR
STEEL PIPE STEEL PIPE	428	594	272
W/INSULATION COPPER	444	444	443
PIPE COPPER PIPE	442	442	429
W/INSULATION	445	335	335

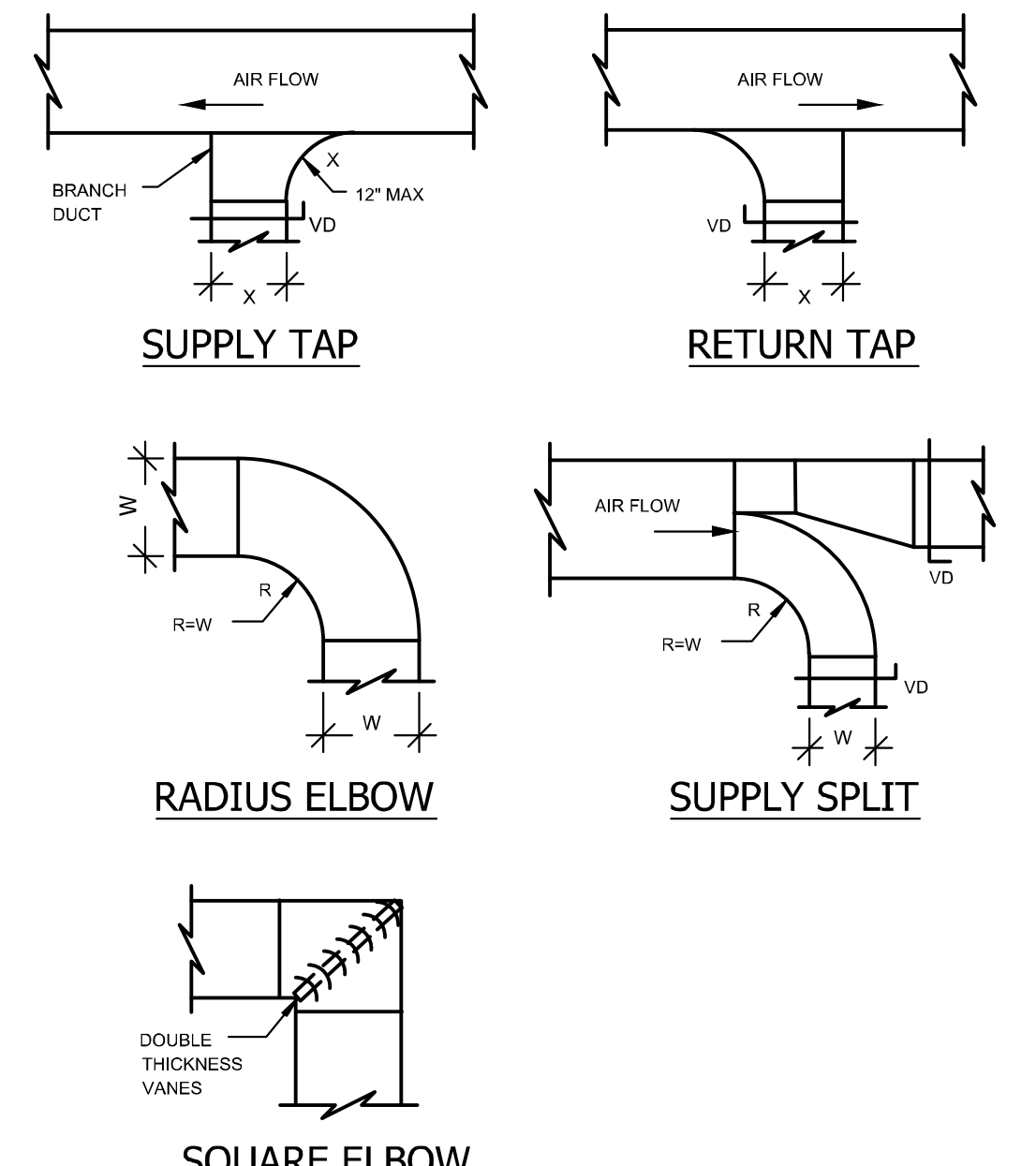


7 PIPE SLEEVE DETAIL
 M300 SCALE: NTS

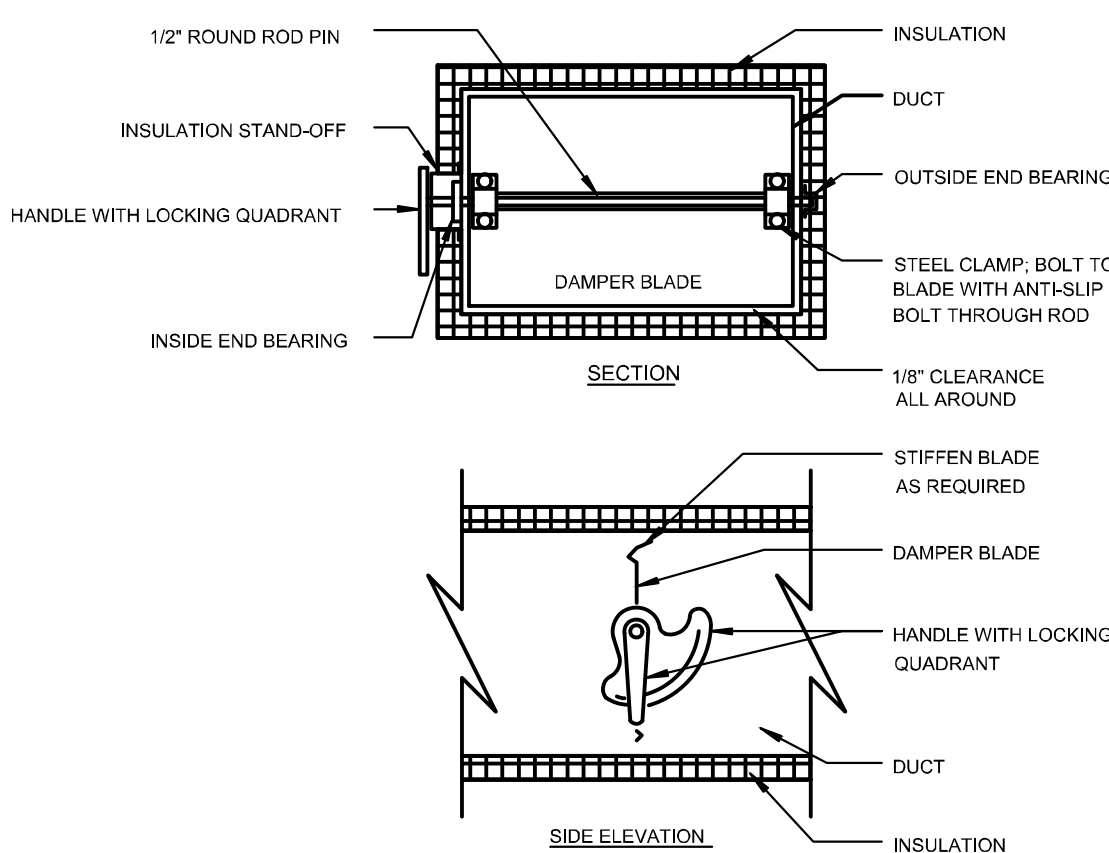
REFER TO ARCHITECTURAL PLANS FOR WALL RATINGS.



8 SUPPLY BRANCH TAKEOFF
 M300 SCALE: NTS

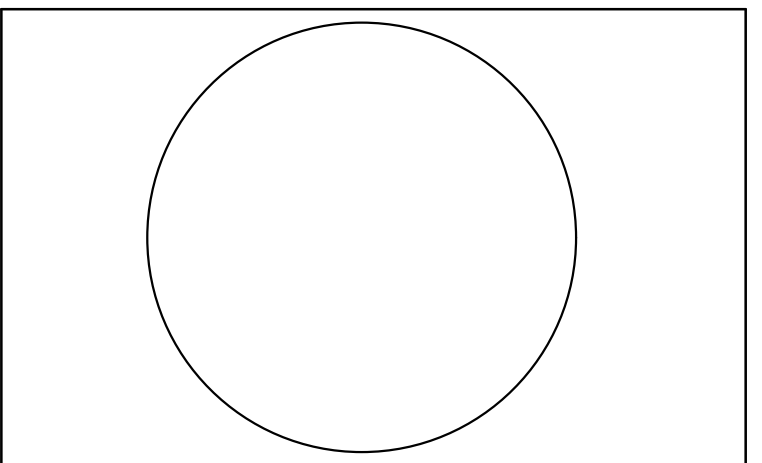


9 DUCT CONSTRUCTION
 M300 SCALE: NTS



NOTES:
 1. DETAIL SHOWS SINGLE BLADE DAMPER, DAMPER INSTALLATION SHALL BE SIMILAR FOR MULTI-BLADE DAMPERS AND ROUND DAMPERS.
 2. SINGLE BLADE DAMPER LIMITED TO 12" MAXIMUM DUCT DEPTH.

10 MANUAL VOLUME DAMPER
 M300 SCALE: NTS



ARCHITECT SEAL MUST BE IN RED INK

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CLIENT IS REQUIRED TO CHECK (X) ONE BOX APPROVED AS IS APPROVED AS NOTED ONLY

CLIENT SIGNATURE _____ DATE _____

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KINDLY RETURN ALL DRAWINGS FOR THE COMPLETE BUILDING, SIGNED AND DATED TO OUR OFFICE LOCATION _____

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