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9/11/2023 2:49:13 24166.00 - 23 - Mechanical-Mercantile Development-4th & Walnut - detached.rvt

HVAC VENTILATION SCHEDULE - TED WILLS

NUMBER	NAME	AREA	LEVEL	PEOPLE	OA PER PERSON	OA PER SQ FT.	REQ SUP	ACT SUP	REQ OA	ACT OA	ACT RET	ACT EXH	CRIT OA	PRESSURE	PCT OPERABLE	NATURAL VENTILATION
210	OFFICE	735 SF	Level 2	5	5	0.06	620	1100	119	220	1100	0	7.9	Neutral	0	False
211	OFFICE	257 SF	Level 2	2	5	0.06	115	200	22	40	200	0	15.9	Neutral	0	False
212	OFFICE	228 SF	Level 2	2	5	0.06	105	200	22	40	200	0	14.8	Neutral	0	False
213	OFFICE	148 SF	Level 2	1	5	0.06	65	200	22	40	200	0	8.7	Neutral	0	False
214	CONFERENCE ROOM	223 SF	Level 2	2	5	0.06	105	200	22	40	200	0	14.6	Neutral	0	False
TOTAL		1582 SF														

HVAC LOAD SCHEDULE - TED WILLS

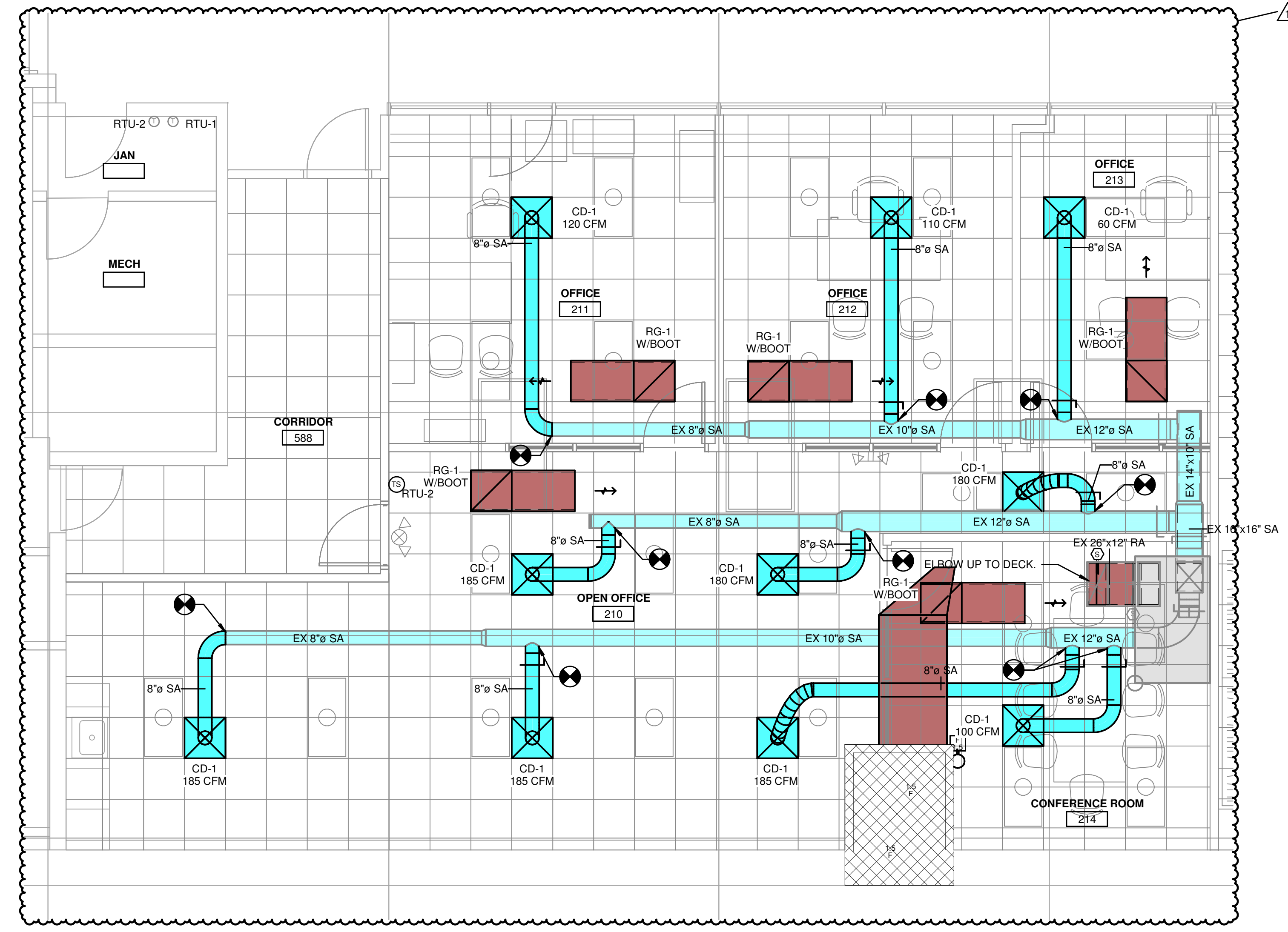
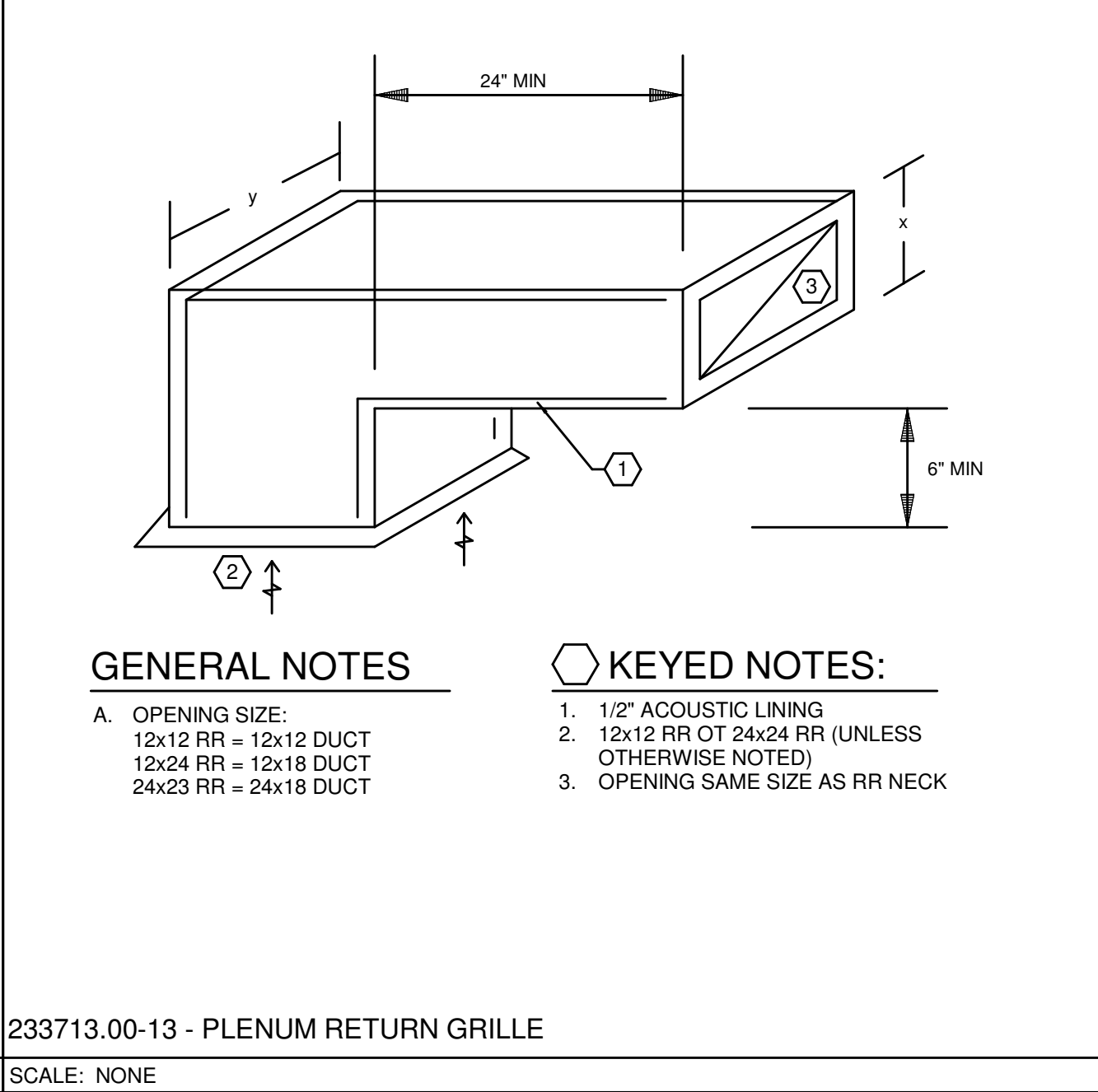
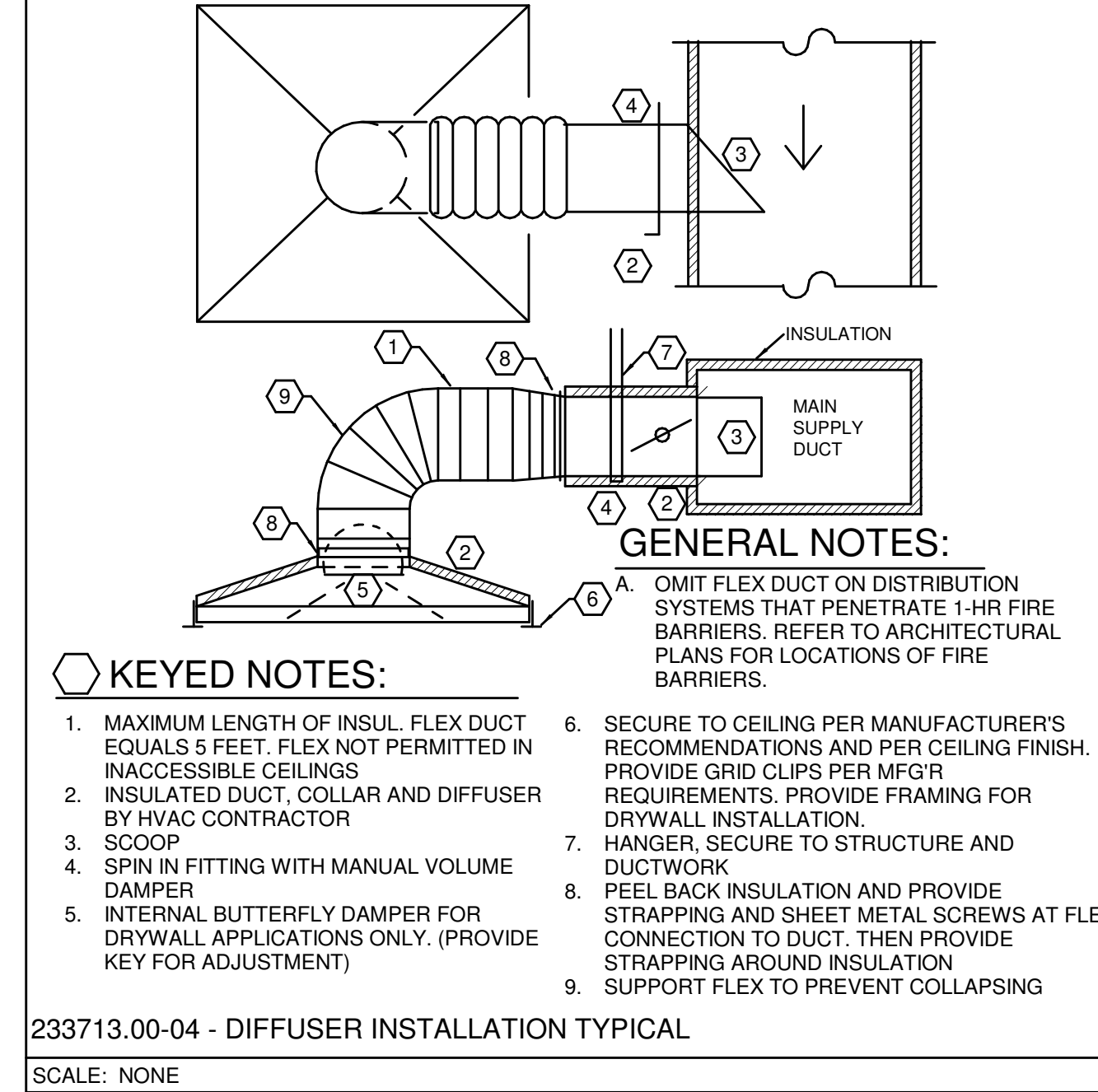
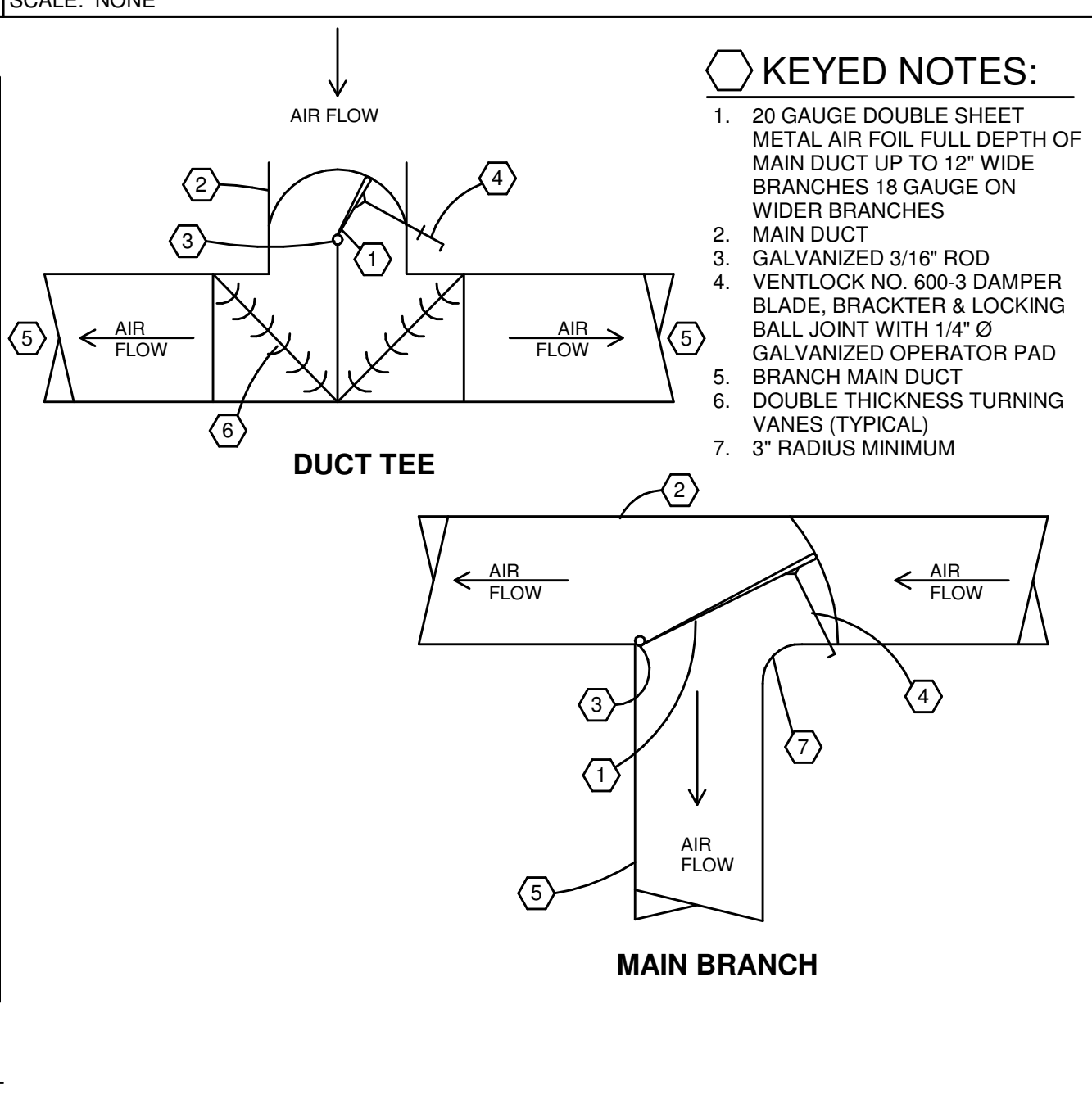
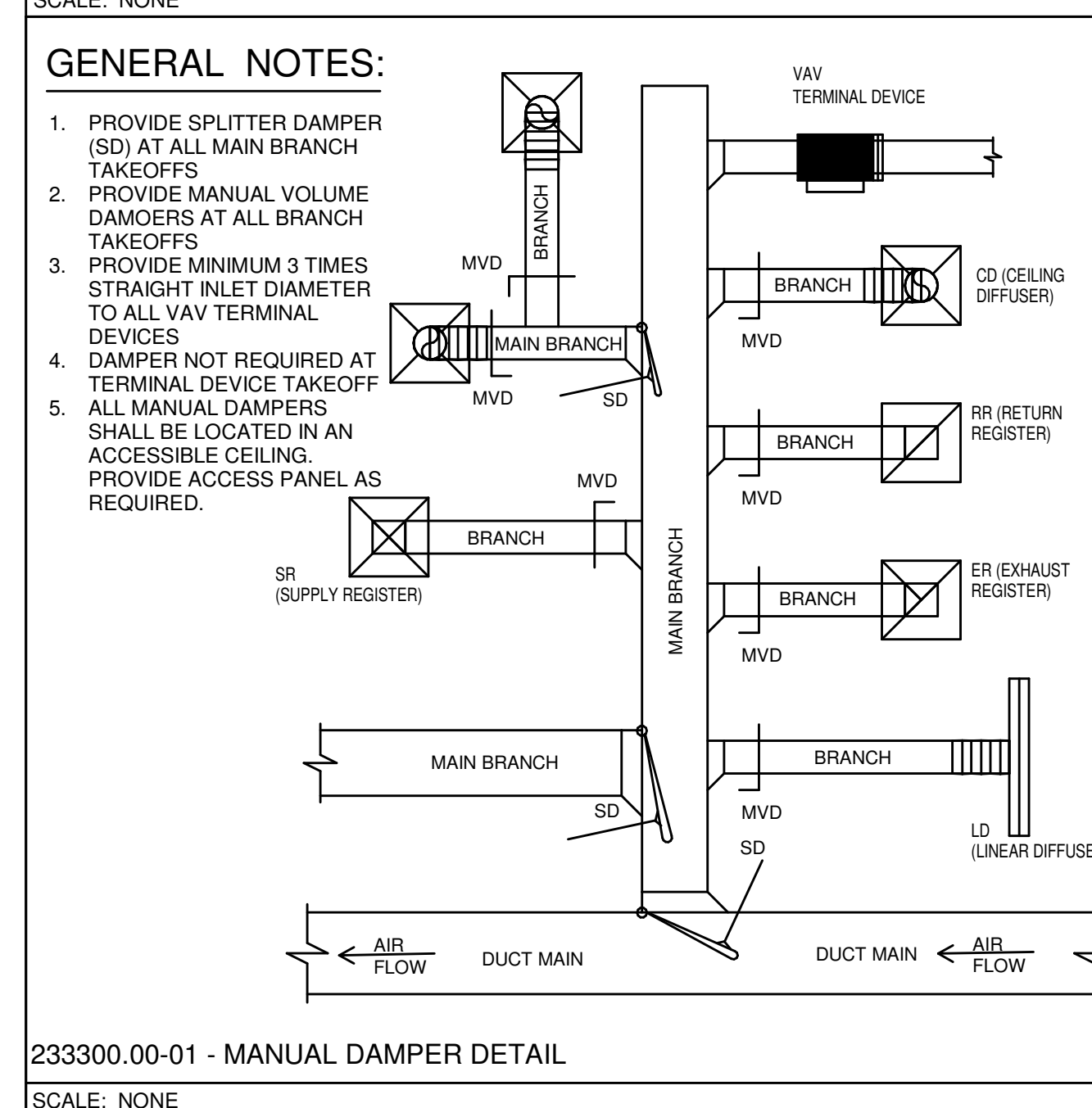
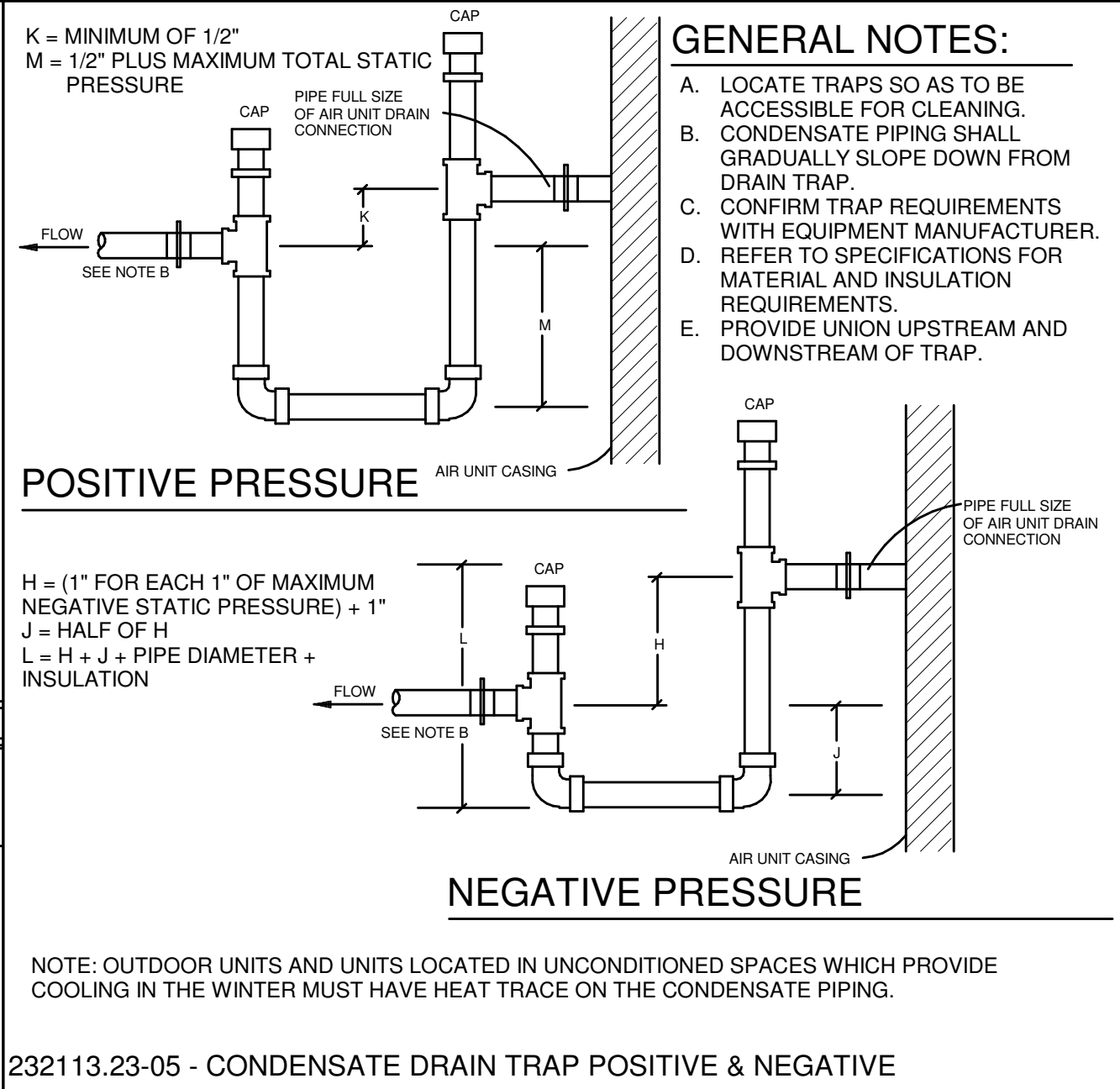
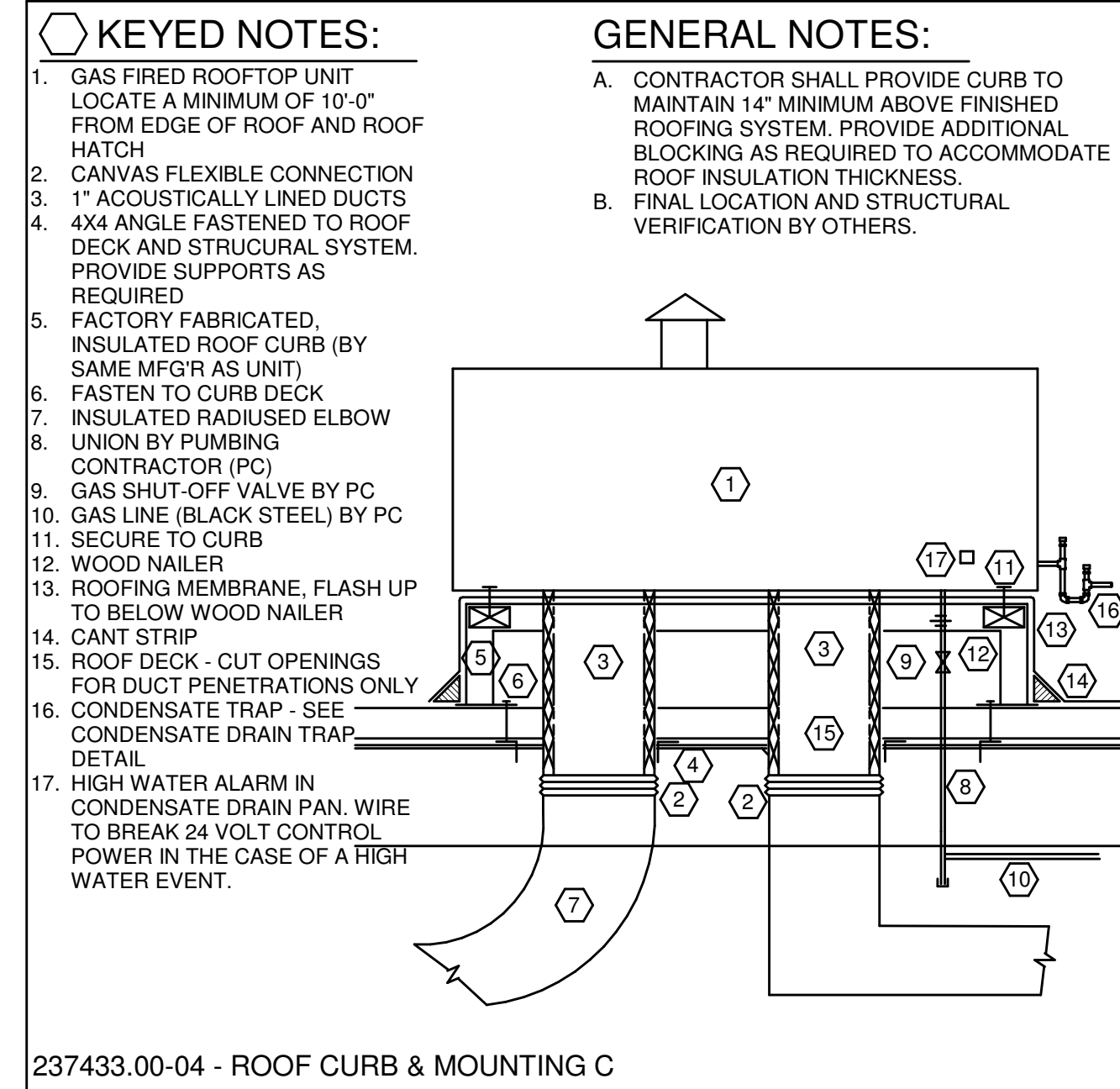
THE HEATING AND COOLING LOAD CALCULATIONS ARE BASED ON THE CLTD/CLF (COOLING LOAD TEMPERATURE DIFFERENCE/COOLING LOAD FACTOR) METHOD. ASSUMPTIONS AND EXECUTION OF THESE METHODS ARE PER ASHRAE 183-2007 STANDARD FOR PEAK COOLING AND HEATING LOAD CALCULATIONS IN BUILDINGS EXCEPT LOW-RISE RESIDENTIAL BUILDINGS.

COOLING LOAD BREAKDOWN										HEATING LOAD BREAKDOWN									
CRFOP	SENSIBLE HEAT GAIN FROM ROOF	CSEENS	TOTAL SENSIBLE HEAT GAIN TO SPACE	HROOF	HEAT LOSS FROM ROOF														
CPART	SENSIBLE HEAT GAIN FROM EXTERIOR WALLS	CFAN	SENSIBLE HEAT GAIN FROM AIR HANDLER FAN	HPART	HEAT LOSS FROM EXTERIOR WALLS														
CGLASS	SENSIBLE HEAT GAIN FROM PARTITIONS	COAS	SENSIBLE HEAT GAIN FROM OUTDOOR VENTILATION AIR	HGLASS	HEAT LOSS FROM PARTITIONS														
CSOLAR	SENSIBLE HEAT GAIN FROM GLAZING	CTSENS	TOTAL SENSIBLE HEAT GAIN	HSLAB	HEAT LOSS FROM GLAZING														
CLIGHTS	SENSIBLE HEAT GAIN FROM INTERIOR LIGHTING	CPLAT	LATENT HEAT GAIN FROM PEOPLE	HSPACE	HEAT LOSS FROM SLAB														
CEQUIP	SENSIBLE HEAT GAIN FROM PLUG LOADS, COMPUTERS, ETC.	CTLAT	LATENT HEAT GAIN FROM OUTDOOR VENTILATION AIR	HTOT	TOTAL HEAT LOSS FROM SPACE														
CPSENS	SENSIBLE HEAT GAIN FROM PEOPLE	CTOT	TOTAL LATENT HEAT GAIN	HOA	HEAT LOSS FROM OUTDOOR VENTILATION AIR														
			TOTAL HEAT GAIN (SENSIBLE + LATENT)	HTOT	TOTAL HEAT LOSS														

EQUIPMENT MARK	CRFOP	CWALL	CPART	CGLASS	CSOLAR	CLIGHTS	CEQUIP	CPSENS	CSEENS	CFAN	COAS	CTSENS	CPLAT	COAL	CTLAT	CTOT	HROOF	HPART	HGLASS	HSPACE	HSLAB	HOA	HTOT	
RTU-2	6.22	0	0	0	0	14.57	12.11	5.76	38.86	0.48	6.91	46.05	2.4	10.41	12.81	58.86	11.64	0	0	0	23.29	0	25.42	37.06

HVAC DIFFUSERS AND REGISTERS SCHEDULE - TED WILLS

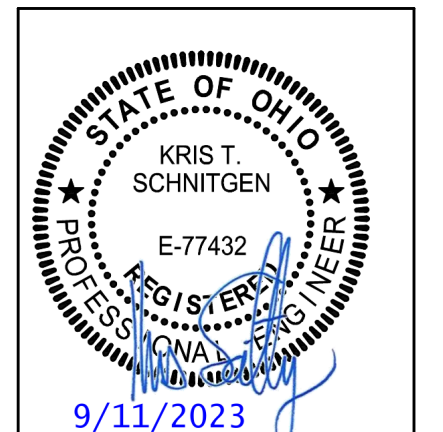
TAG	MANUFACTURER	MODEL	FACE	MOUNTING	MATERIAL	FINISH	DAMPER TYPE	BORDER STYLE
CD-1	TITUS	OMNI	24"x24"	CEILING	STEEL	STANDARD WHITE	OPPOSED BLADE	LAY IN MOUNTING
RG-1	TITUS	350RL	24"x24"	CEILING	STEEL	STANDARD WHITE	(none)	LAY IN MOUNTING
RG-6	TITUS	350RL	12"x12"	CEILING	STEEL	STANDARD WHITE	(none)	SURFACE MOUNT



1 ENLARGED TED WILLS SPACE
1/4" = 1'-0"

MECHANICAL ELECTRICAL ENGINEERS
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THE FORMICA BLDG.
SUITE 205 & 205: OFFICES
120 EAST 4TH STREET
CINCINNATI OH 45202



REVISIONS

DATE	DESCRIPTION
07.26.23	TED WILLS PERMIT
07.26.23	TED WILLS BULLETIN 1

DWN: PRF CHK: KTS
DATE: 07/26/23
PROJECT #: 24166.00
TED WILLS MECHANICAL PLANS

M5-101
1" REFERENCE
KLH PROJECT # 24166