

- KEYNOTE LEGEND
1. WALL MOUNTED DUCTLESS MINI-SPLIT TO BE MOUNT HIGH AS POSSIBLE. INSTALL PER MANUFACTURER INSTALLATION INSTRUCTIONS. ROUTE REFRIGERANT PIPING FROM AIR HANDLING UNIT TO CONDENSING UNIT MOUNTED ON ROOF. COORDINATE LINE LENGTHS REQUIRED WITH MANUFACTURER. SIZE AND PROVIDE ALL ACCESSORIES AS REQUIRED PER MANUFACTURER'S SPECIFICATIONS. REFER TO PLUMBING DRAWINGS FOR CONDENSATE ROUTING. COORDINATION FINAL LOCATION OF MINI-SPLIT WITH EXISTING CONDITIONS WITHIN THE ROOM (E.I. ELECTRICAL CONDUIT AND ELECTRICAL EQUIPMENT).
 2. PROVIDE NEW DUCTLESS CEILING MOUNTED MINI-SPLIT SYSTEM. INSTALL PER MANUFACTURER INSTALLATION INSTRUCTIONS. ROUTE REFRIGERANT PIPING FROM AIR HANDLING UNIT TO CONDENSING UNIT MOUNTED ON ROOF. COORDINATE LINE LENGTHS REQUIRED WITH MANUFACTURER. SIZE AND PROVIDE ALL ACCESSORIES AS REQUIRED PER MANUFACTURER'S SPECIFICATIONS. REFER TO PLUMBING PLANS FOR CONDENSATE ROUTING.
 3. SUPPLY AND RETURN DUCTWORK DOWN FROM RTU. REFER TO ROOF PLANS FOR RTU PLACEMENT.
 4. PROVIDE DRAIN PAN UNDERNEATH DUCTWORK IN ELECTRICAL ROOMS. COORDINATE DUCT ROUTING PRIOR TO START OF WORK.



E	D	C
B	A	

HVAC PLAN - C 1
1/8" = 1'-0"

EMERALD ENGINEERING INC.
9942 CURRIE DAVIS DR. STE H, TAMPA, FL 33619
TEL (813) 995-0300
WWW.EMERALDNEP.COM
PROJECT # 210120

FLEISCHMANGARCIA
ARCHITECTURAL PLANNING INTERIOR
34 HYDE PARK AVENUE, SUITE 300
MIAMI, FL 33135
TEL (305) 375-1994
WWW.FLEISCHMANGARCIA.COM

11540 E US-92
SEFFNER, FLORIDA 33584

ROOMS TO GO
OFFICES RENOVATION AND EXPANSION

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CERTIFY TO THE BEST OF MY KNOWLEDGE THAT THESE DRAWINGS COMPLY WITH ALL RELEVANT BUILDING CODES

BID SET

MICHAEL A. COSTELLO, PE
FL REG. NO. PE81436
S/S Date

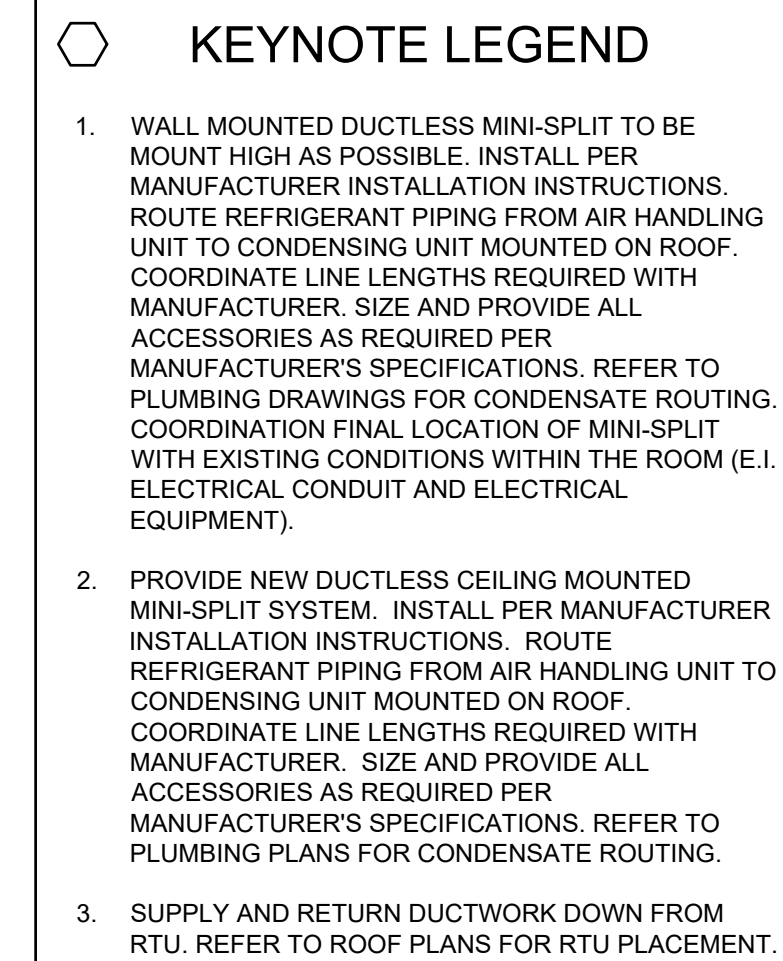
FGA PROJECT NUMBER
21003

ISSUE DATE
08-25-21

NO.	DATE	NOTES
1	08-13-21	ADDENDUM #2

SHEET NAME
HVAC PLAN - C

SHEET NUMBER
M1.10C

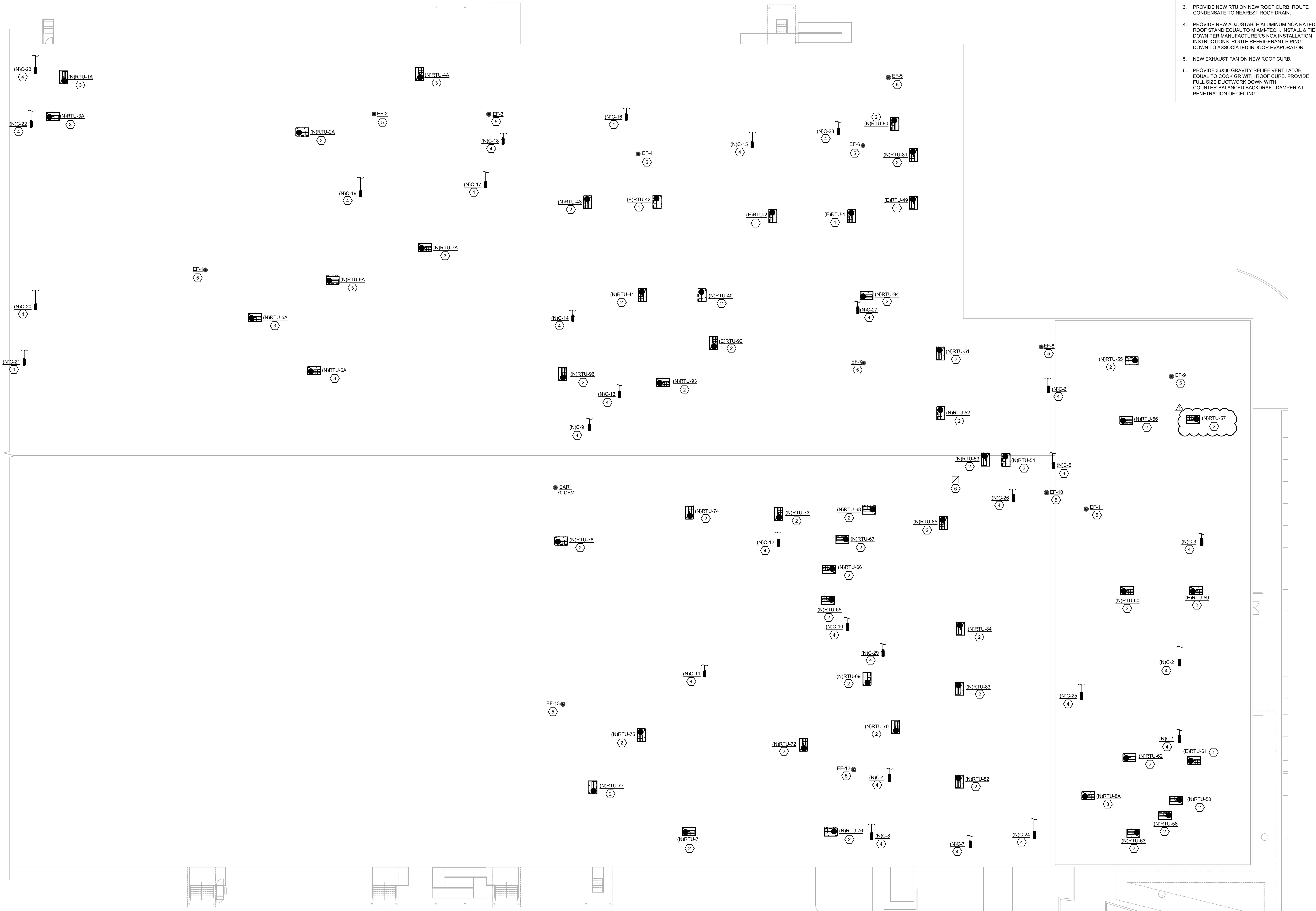


SHEET NUMBER
M1.10E

E	D	C
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HVAC PLAN - E (1)
1/8" = 1'-0"

\\projects\310120 ROOMS-TO-GO RENOVATION\DRAWINGS\210120 MECHANICAL HVAC ROOF PLAN - 8-6.dwg Sep 13, 2021 8:43am



- KEYNOTE LEGEND**
1. EXISTING RTU & CURB TO REMAIN. CONTROLS TO REMAIN. TEST AND BALANCE.
 2. PROVIDE NEW RTU ON EXISTING ROOF CURB WITH NEW ADAPTOR. ROUTE CONDENSATE TO NEAREST ROOF DRAIN.
 3. PROVIDE NEW RTU ON NEW ROOF CURB. ROUTE CONDENSATE TO NEAREST ROOF DRAIN.
 4. PROVIDE NEW ADJUSTABLE ALUMINUM NOA RATED ROOF STAND EQUAL TO MIAMI-TECH. INSTALL & TIE DOWN PER MANUFACTURER'S NOA INSTALLATION INSTRUCTIONS. ROUTE REFRIGERANT PIPING DOWN TO ASSOCIATED INDOOR EVAPORATOR.
 5. NEW EXHAUST FAN ON NEW ROOF CURB.
 6. PROVIDE 36X36 GRAVITY RELIEF VENTILATOR EQUAL TO COOK OR WITH ROOF CURB. PROVIDE FULL SIZE DUCTWORK DOWN WITH COUNTER-BALANCED BACKDRAFT DAMPER AT PENETRATION OF CEILING.

N
KEYPLAN

E	D	C
B	A	

HVAC ROOF PLAN 1
1/16" = 1'-0"

EMERALD ENGINEERING INC.
9942 CURRIE DAVIS DR. STE H, TAMPA, FL 33619
TEL (813) 995-0300
WWW.EMERALDNEP.COM
EEL PROJECT # 210120

FLEISCHMANGARCIA
ARCHITECTURAL PLANNING INTERIOR
1801 FORT MEYER BLVD. SUITE 300
TAMPA, FL 33606
PHONE (813) 331-2800
FAX (813) 331-1994
WWW.FLEISCHMANGARCIA.COM

11540 E US-92
SEFFNER, FLORIDA 33584

ROOMS TO GO
OFFICES RENOVATION AND EXPANSION

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BID SET

MICHAEL A. COSTELLO, PE
FL REG. NO. PE81436
S/S Date

FGA PROJECT NUMBER
21003

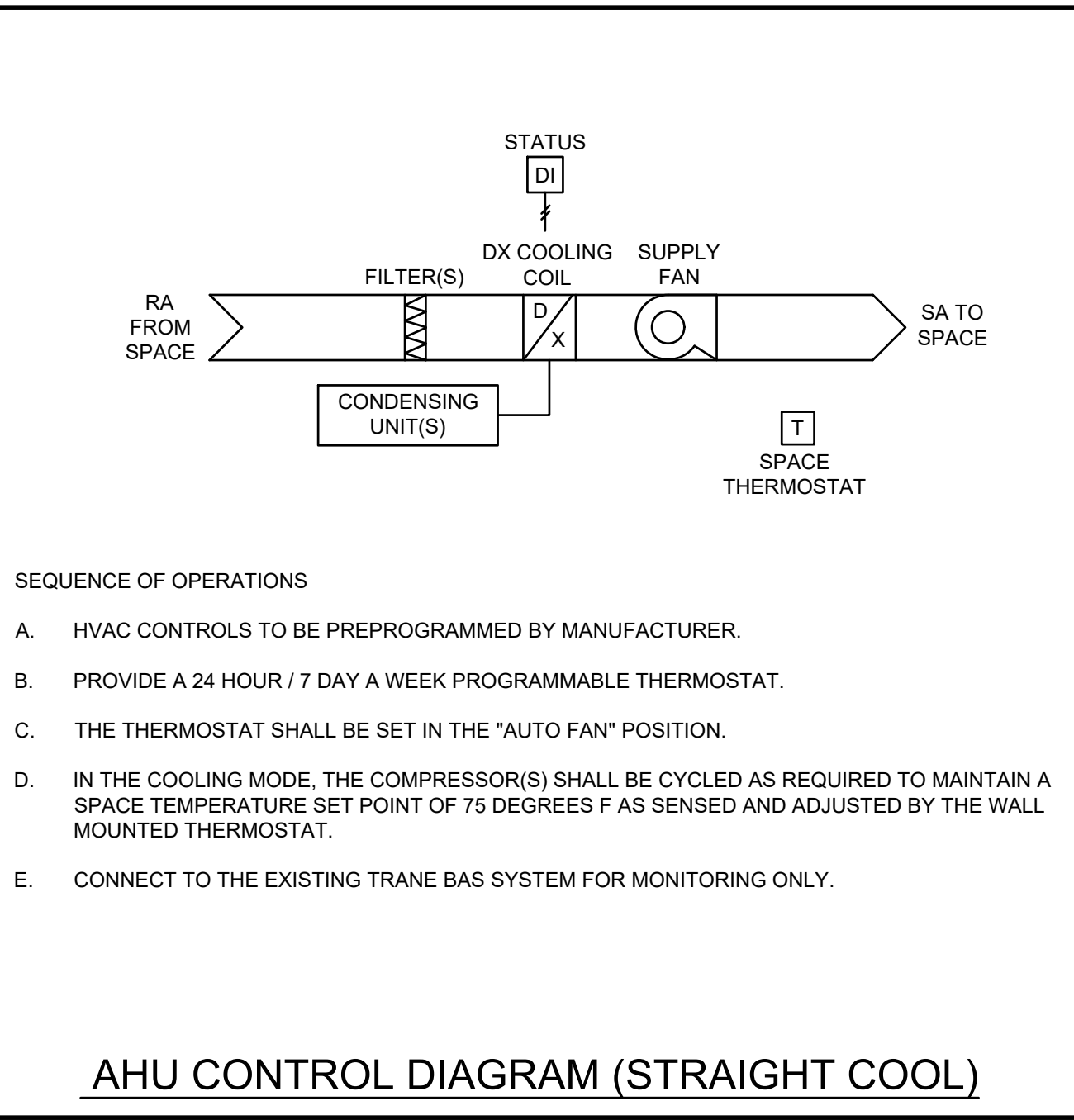
ISSUE DATE
08-25-21

NO	DATE	NOTES
1	08-13-21	ADDITION #2

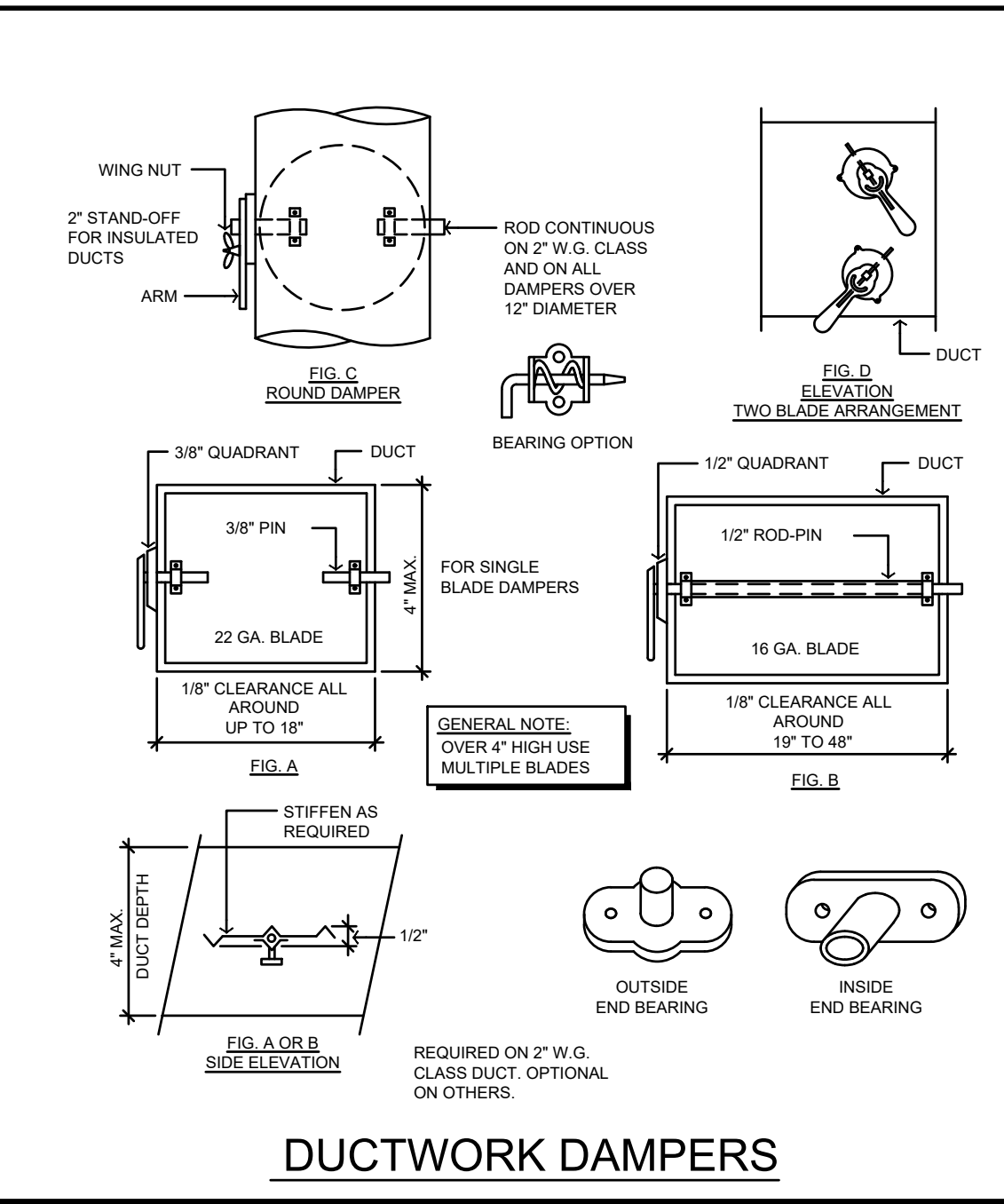
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HVAC ROOF PLAN

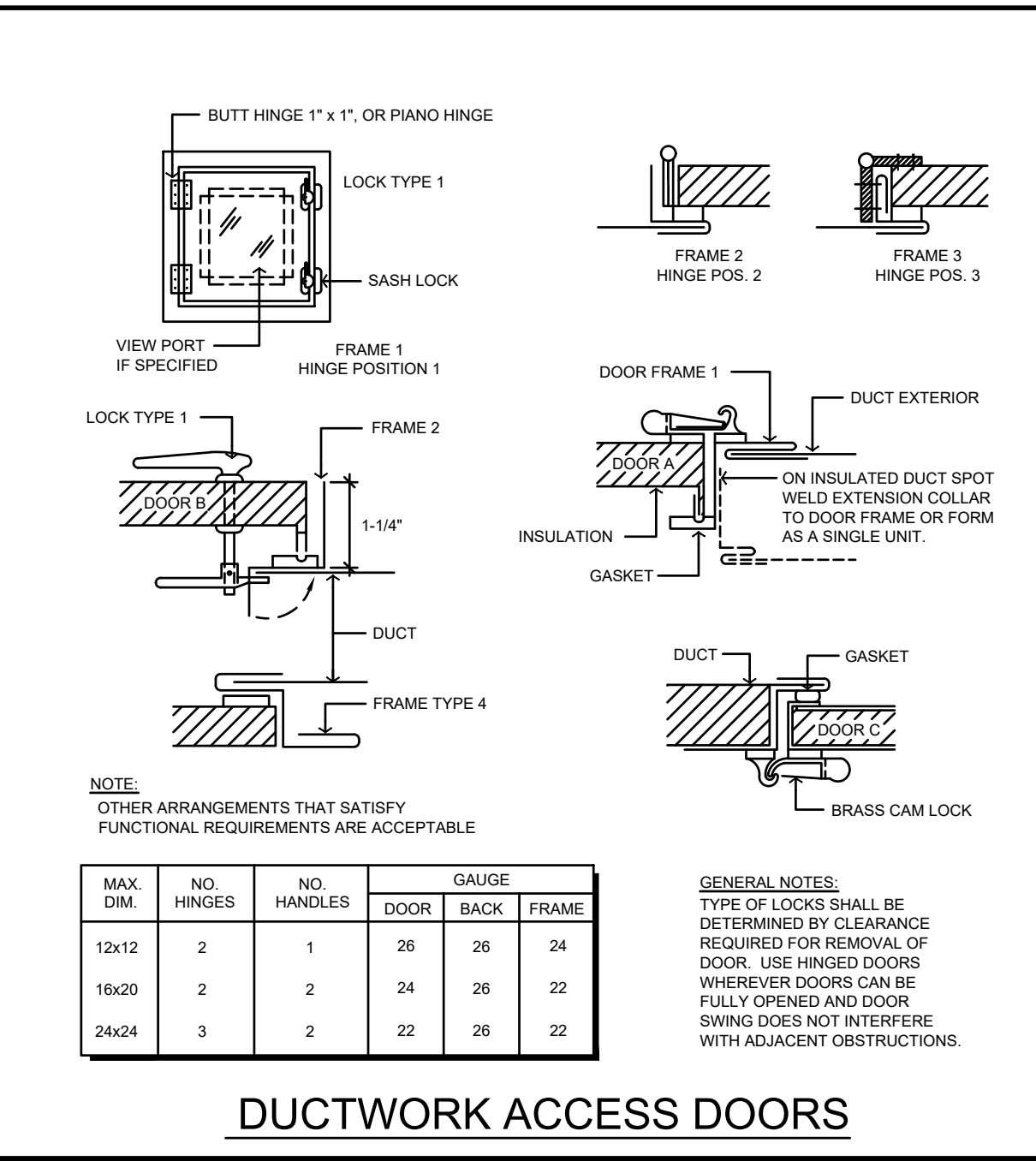
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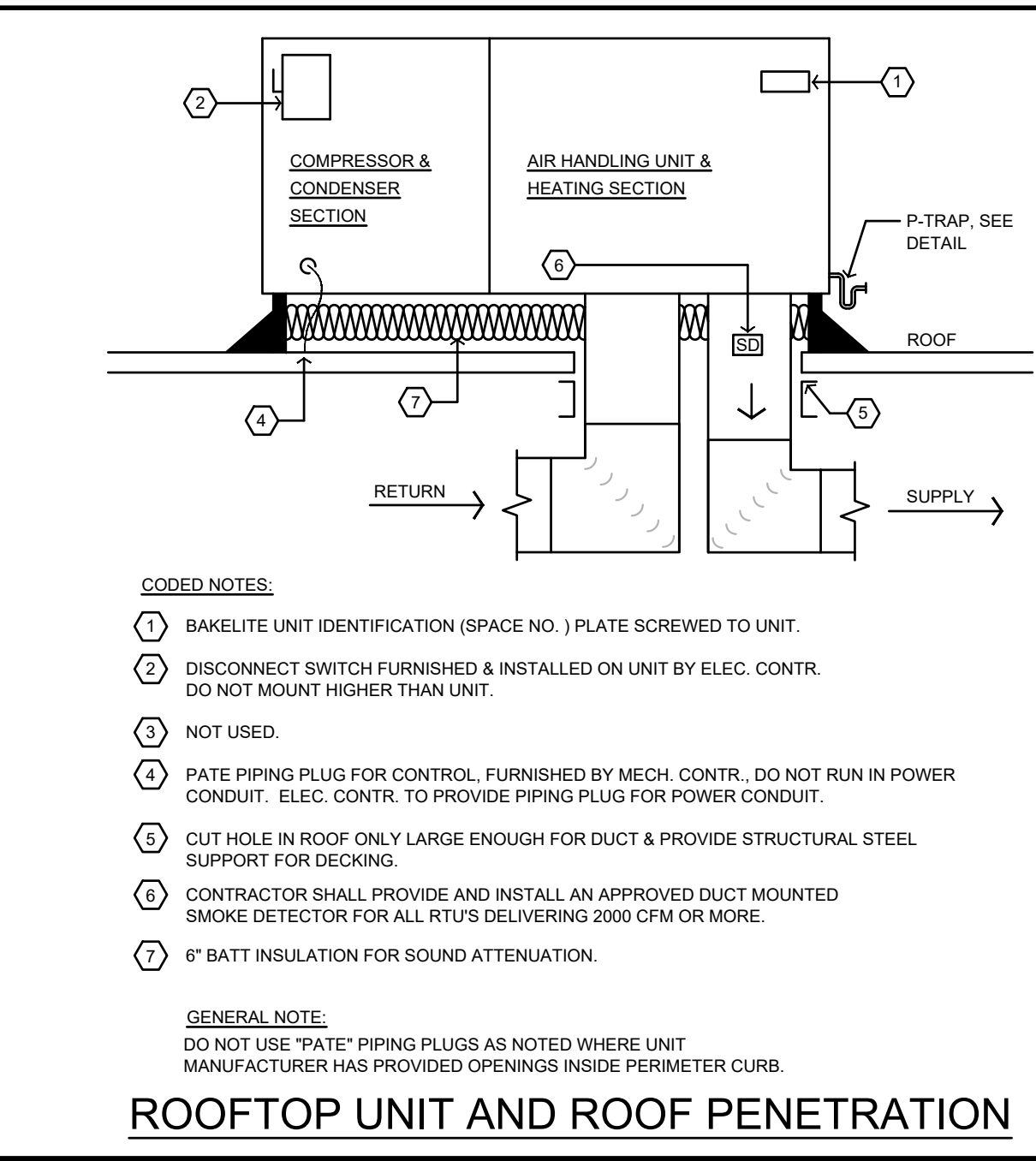
AHU CONTROL DIAGRAM (STRAIGHT COOL)



DUCTWORK DAMPERS



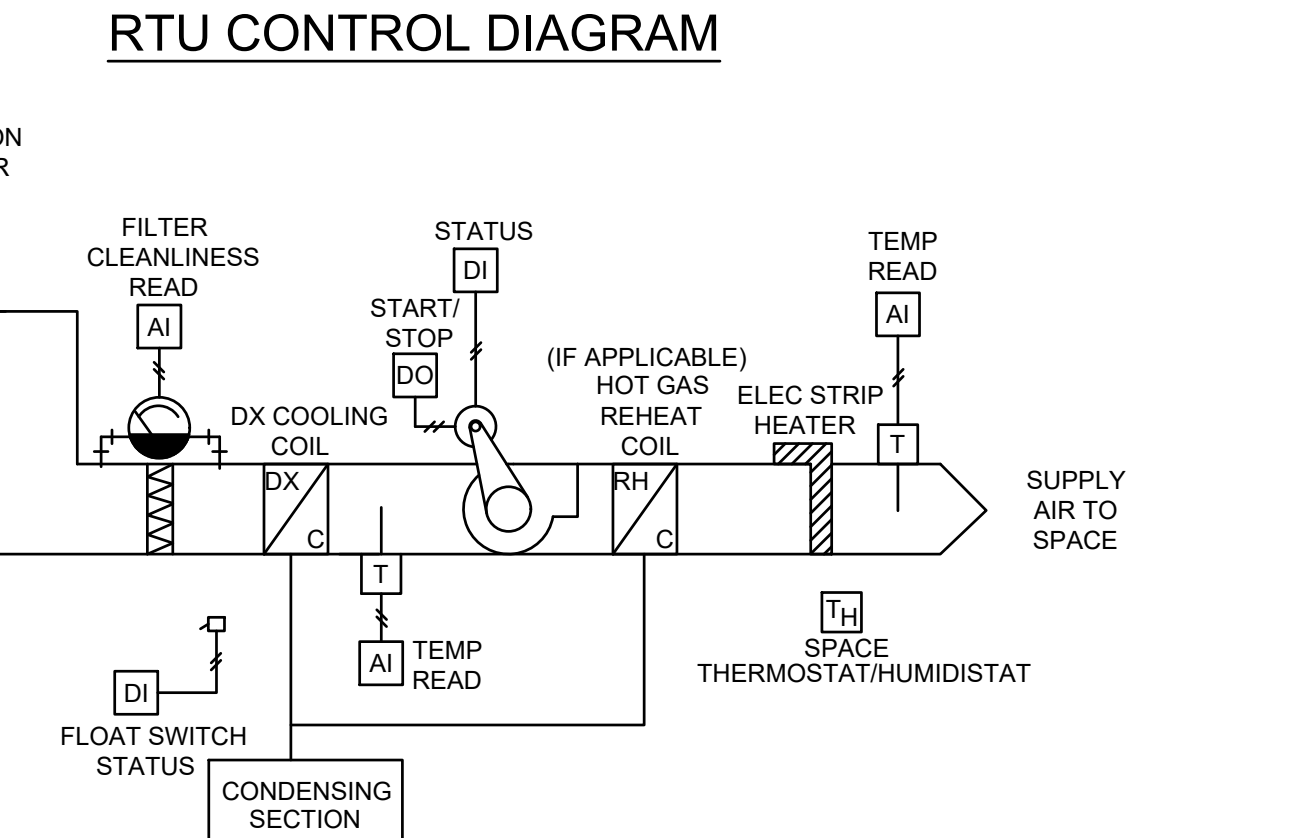
DUCTWORK ACCESS DOORS



ROOFTOP UNIT AND ROOF PENETRATION

MAXIMUM HALF OF DUCT PERIMETER	PAIR AT 16 FT. SPACING		PAIR AT 8 FT. SPACING		PAIR AT 4 FT. SPACING		PAIR AT 2 FT. SPACING	
	STRAP	ROD	STRAP	ROD	STRAP	ROD	STRAP	ROD
P 2 = 72"	1" x 22 GA.	1/4"	1" x 22 GA.	1/4"	1" x 22 GA.	1/4"	1" x 22 GA.	1/4"
P 2 = 96"	1" x 18 GA.	3/8"	1" x 20 GA.	1/4"	1" x 22 GA.	1/4"	1" x 22 GA.	1/4"
P 2 = 120"	1" x 16 GA.	3/8"	1" x 18 GA.	3/8"	1" x 22 GA.	1/4"	1" x 22 GA.	1/4"
P 2 = 168"	1.5" x 16 GA.	1/2"	1" x 16 GA.	3/8"	1" x 18 GA.	3/8"	1" x 18 GA.	3/8"
P 2 = 192"		1/2"	1.5" x 16 GA.	1/2"	1" x 16 GA.	3/8"	1" x 16 GA.	3/8"
P 2 = 192" UP								
SPECIAL ANALYSIS REQUIRED								
WHEN STRAPS ARE LAP JOINED, USE THESE MINIMUM FASTENERS:								
1" x 18, 20, 22 GA. - TWO #10								
1" x 20 GA. - TWO #10								
1.2" x 16 GA. - TWO #10								
1.5" x 16 GA. - TWO #10								
1.75" x 16 GA. - TWO #10								
2" x 16 GA. - TWO #10								
SINGLE HANGER MAXIMUM ALLOW. LOAD								
1" x 18, 20, 22 GA. - 260 LBS.								
1" x 20 GA. - 320 LBS.								
1.2" x 16 GA. - 420 LBS.								
1.5" x 16 GA. - 580 LBS.								
1.75" x 16 GA. - 700 LBS.								
2" x 16 GA. - 1100 LBS.								

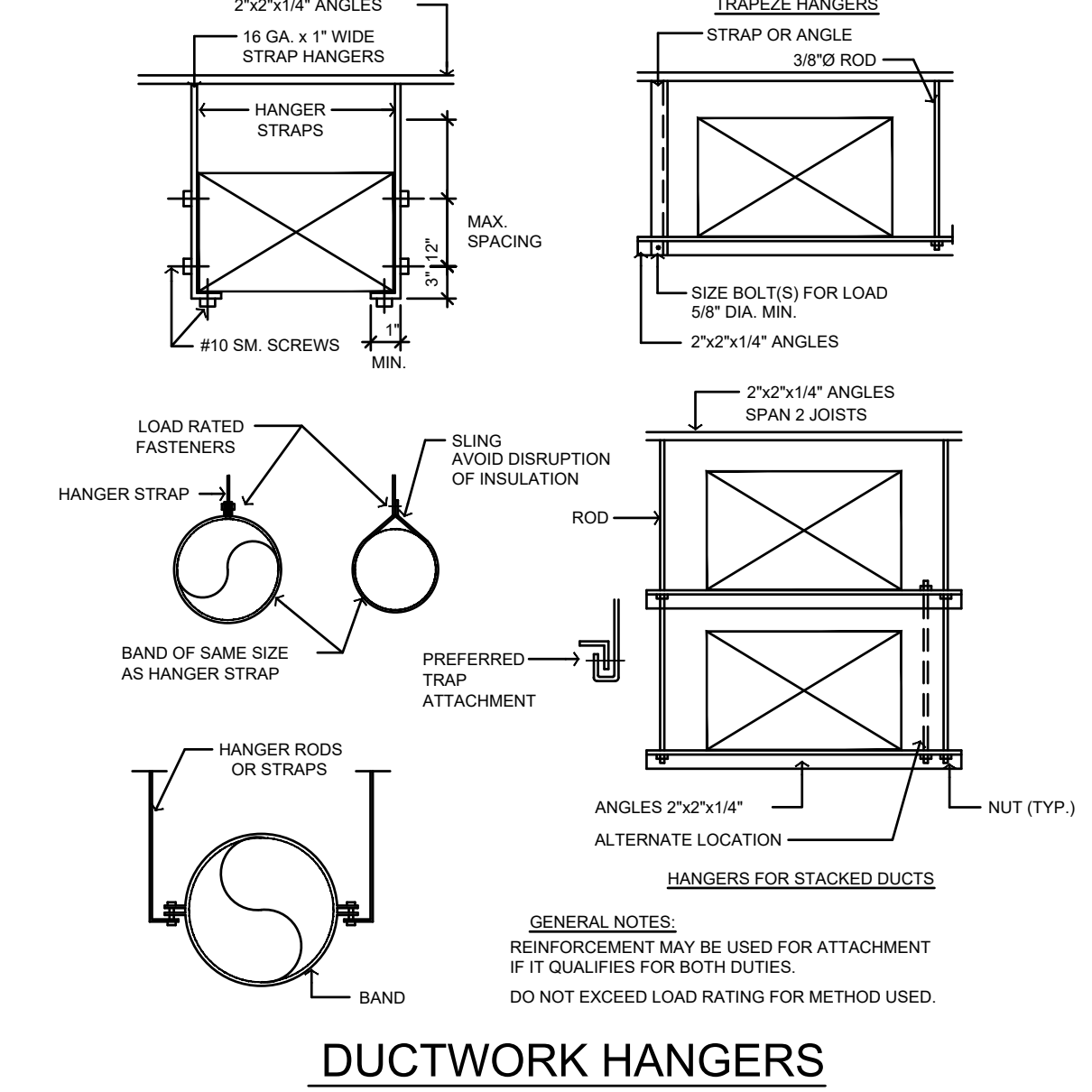
DUCTWORK HANGERS TABLE



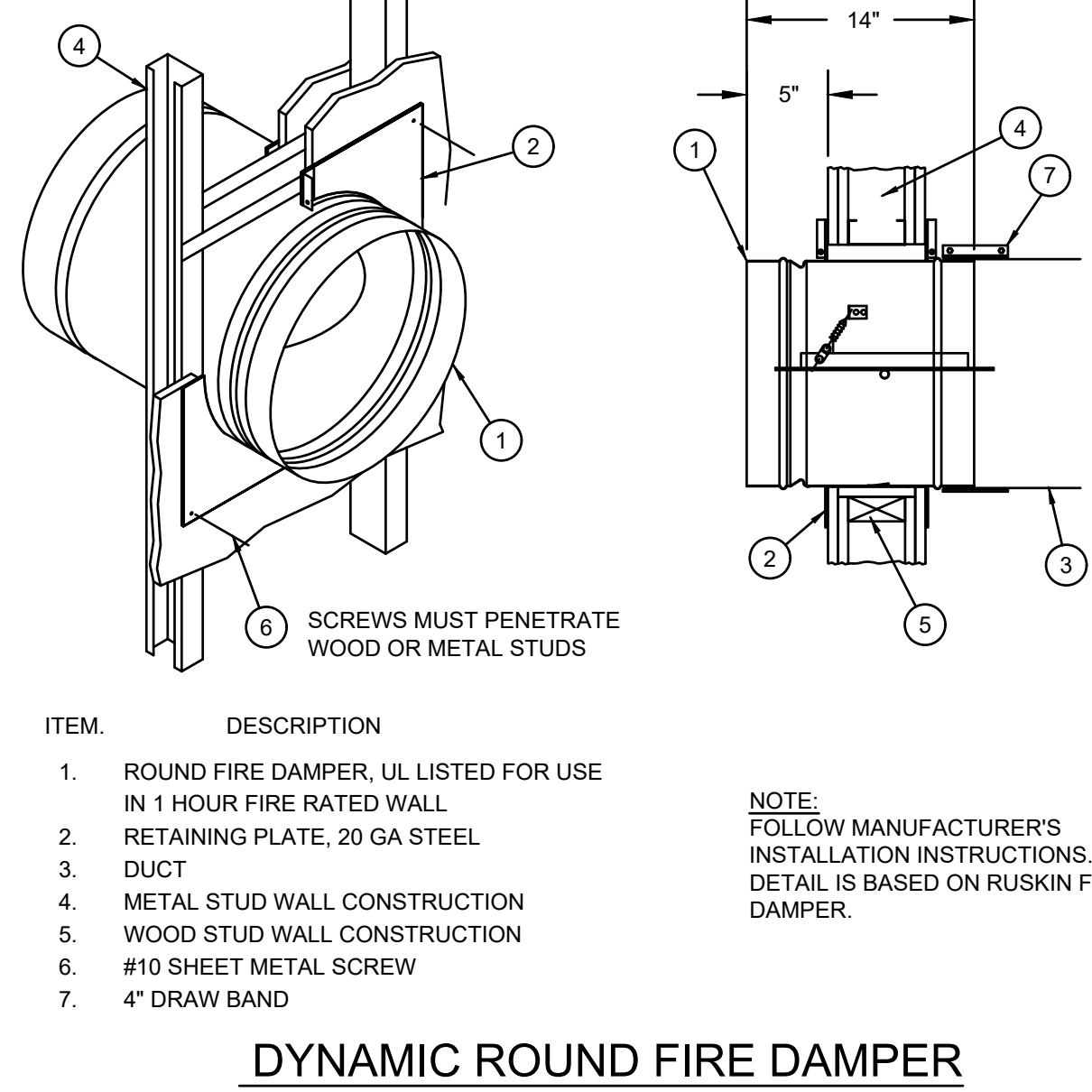
RTU CONTROL DIAGRAM

EXISTING BUILDING HAS AN EXISTING TRANE TRACE HVAC CONTROL SYSTEM. TIE NEW HVAC, EXISTING, AND REPLACEMENT EQUIPMENT TO THE EXISTING SYSTEM AS REQUIRED. PROVIDE ALL PROGRAMMING, SEQUENCING, GRAPHICS, ETC. AS REQUIRED.

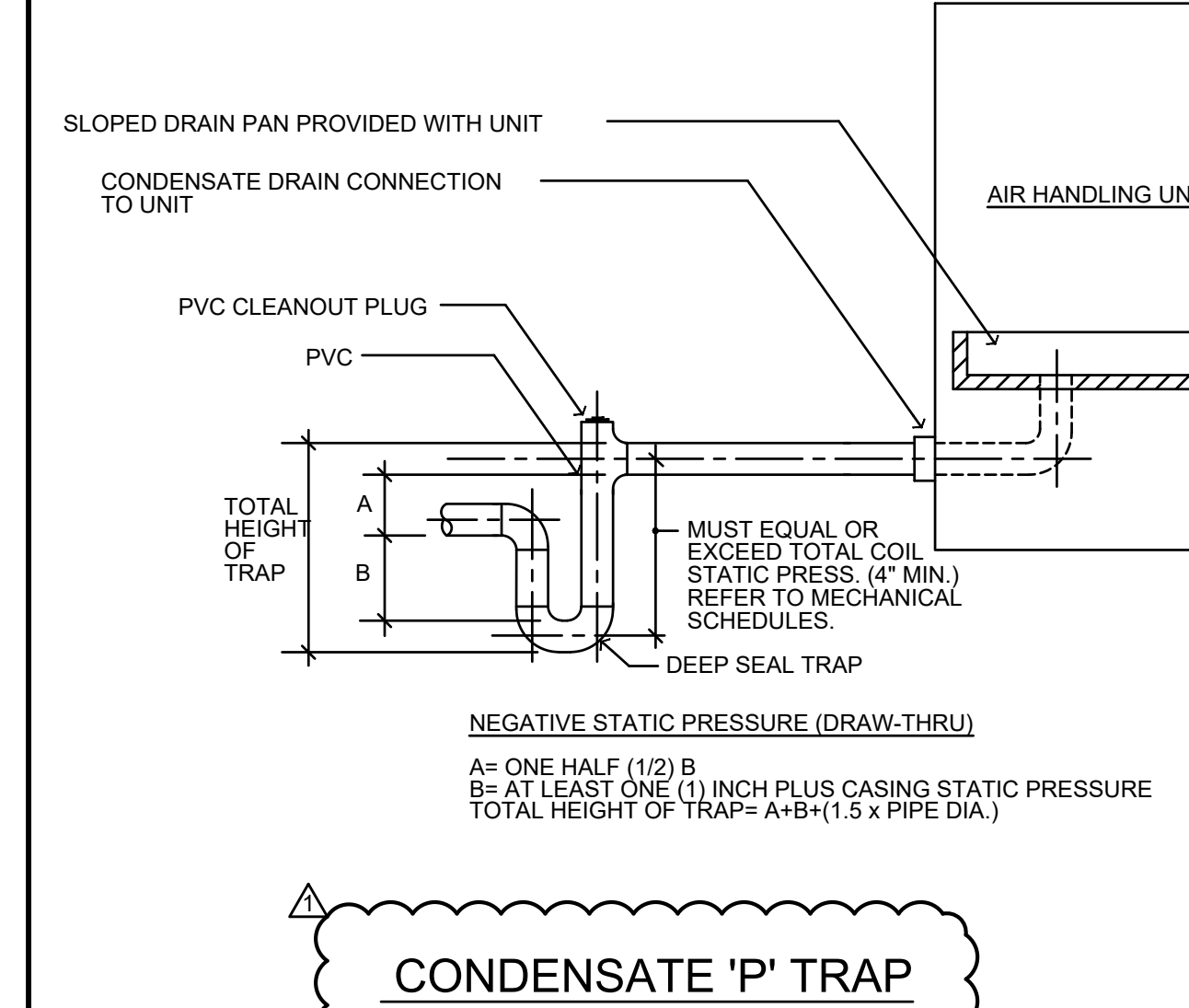
HVAC CONTROL FRONT END NOTE



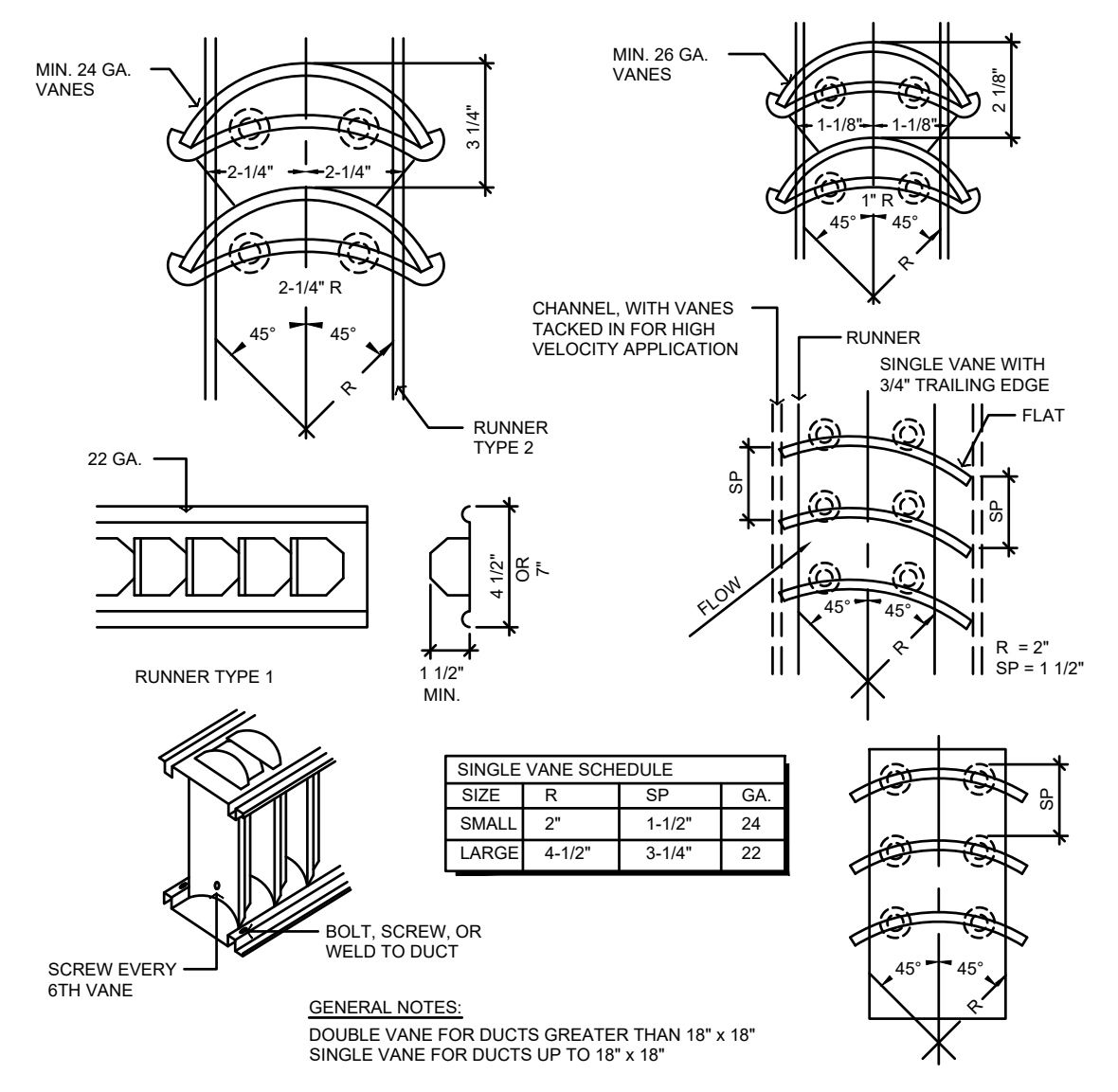
DUCTWORK HANGERS



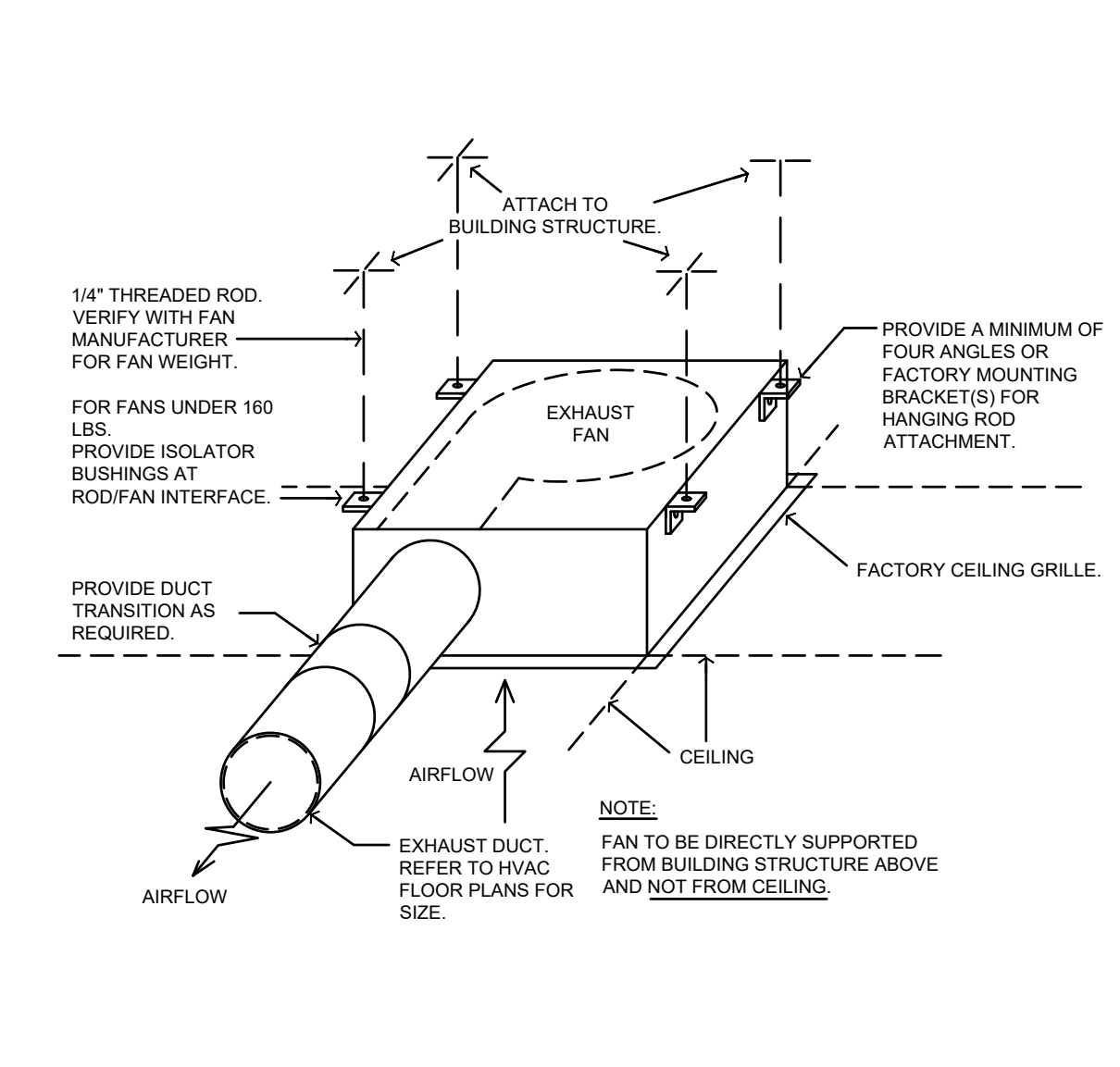
DYNAMIC ROUND FIRE DAMPER



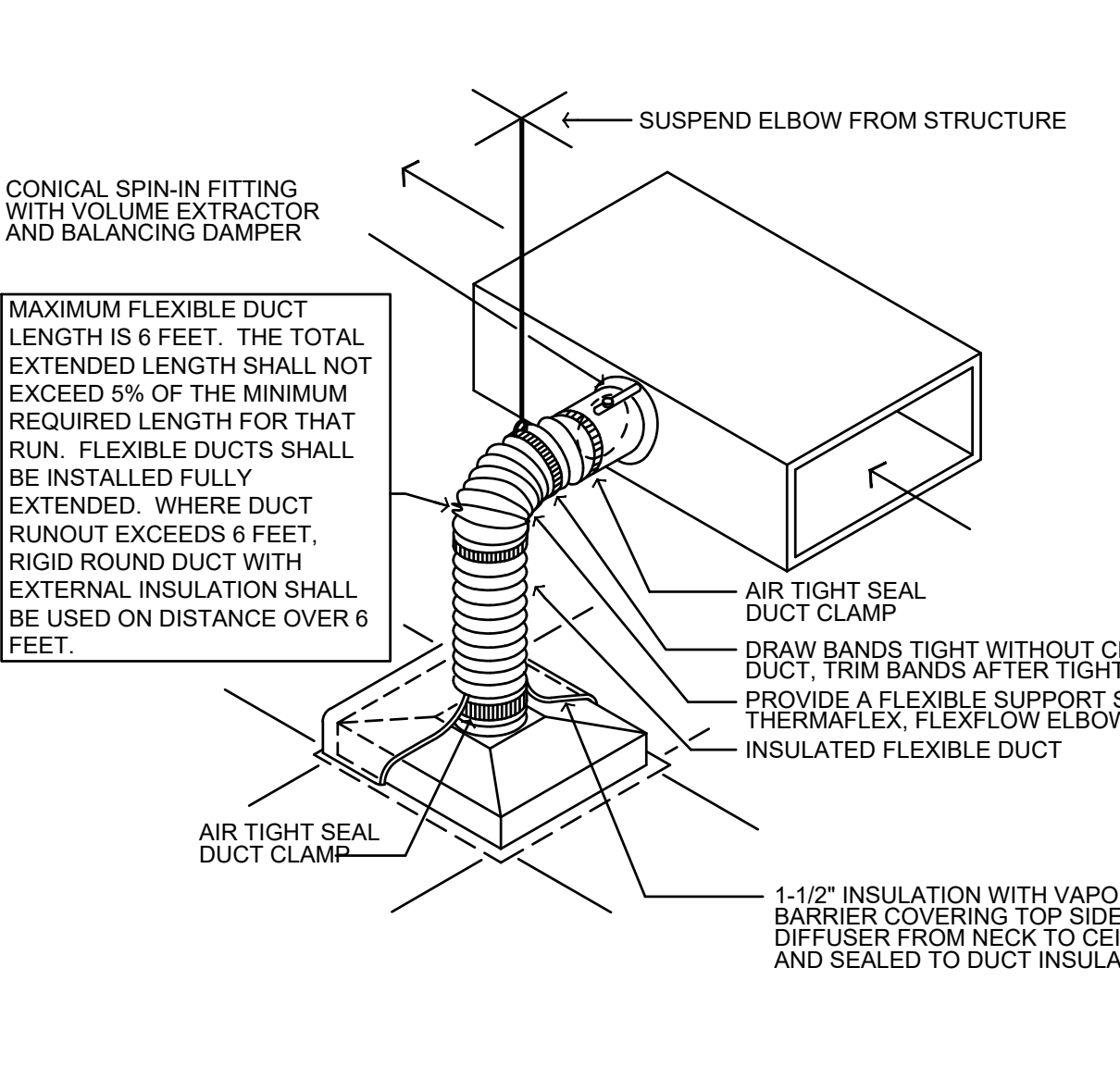
CONDENSATE 'P' TRAP



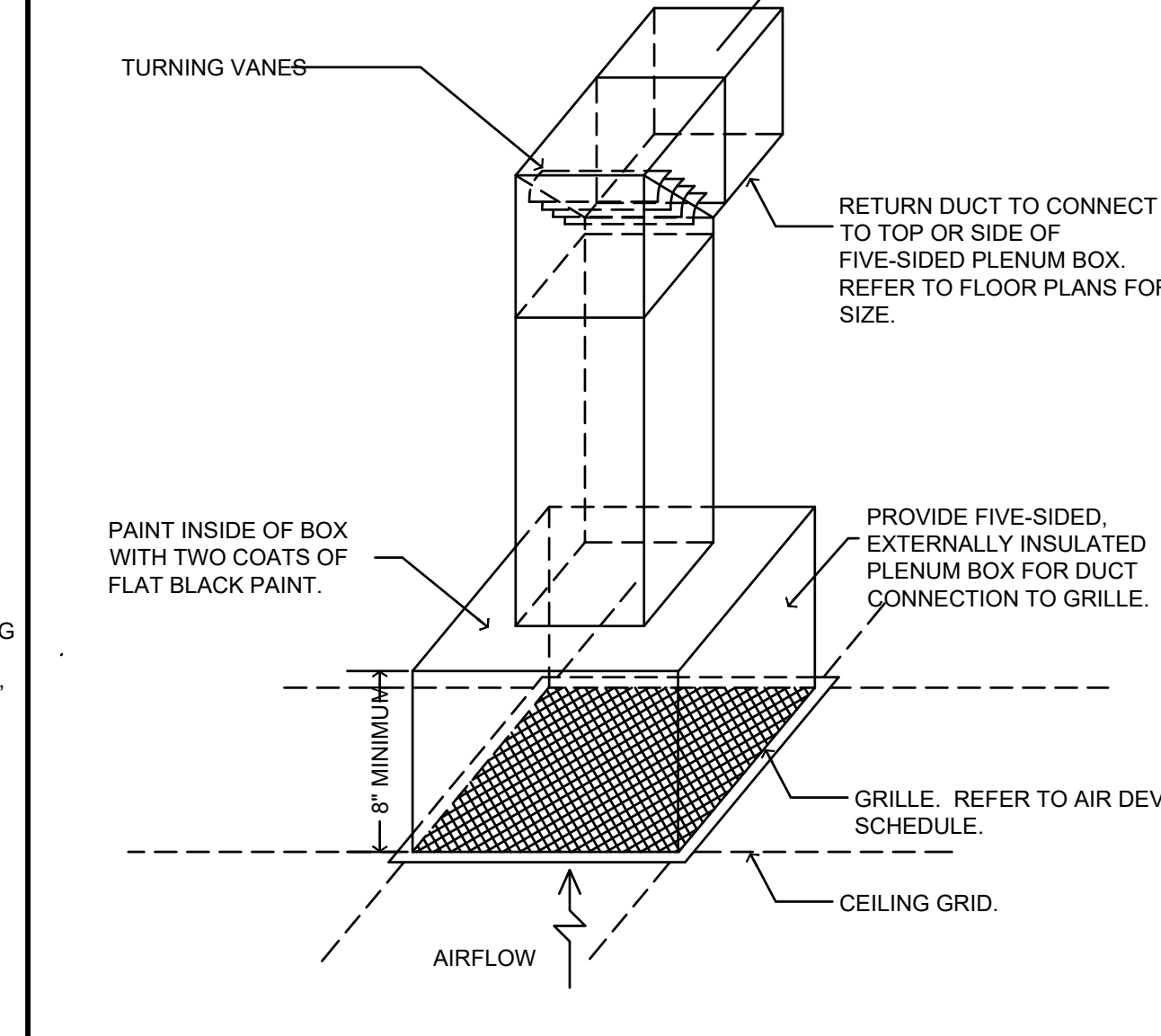
DUCTWORK TURNING VANES



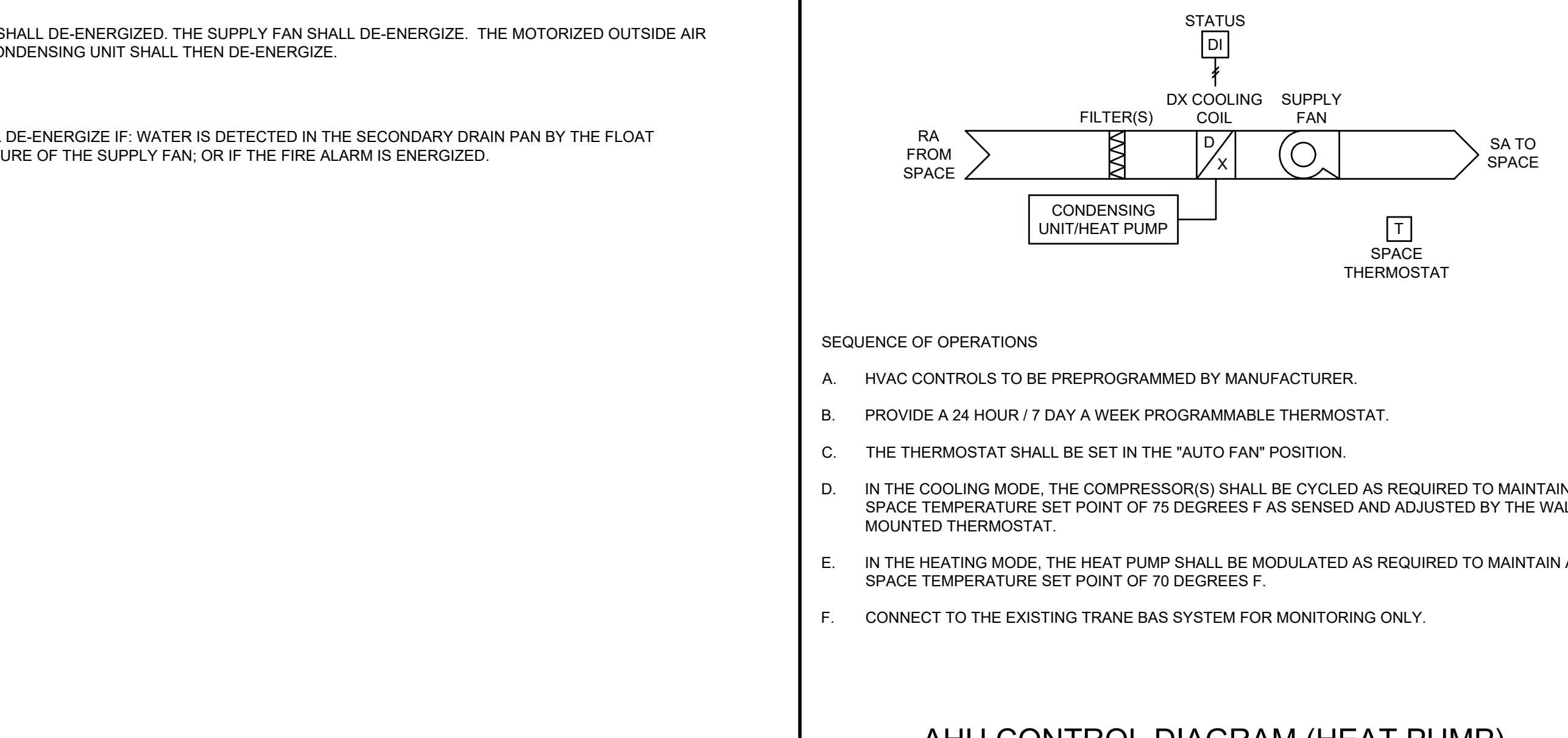
CEILING EXHAUST FAN



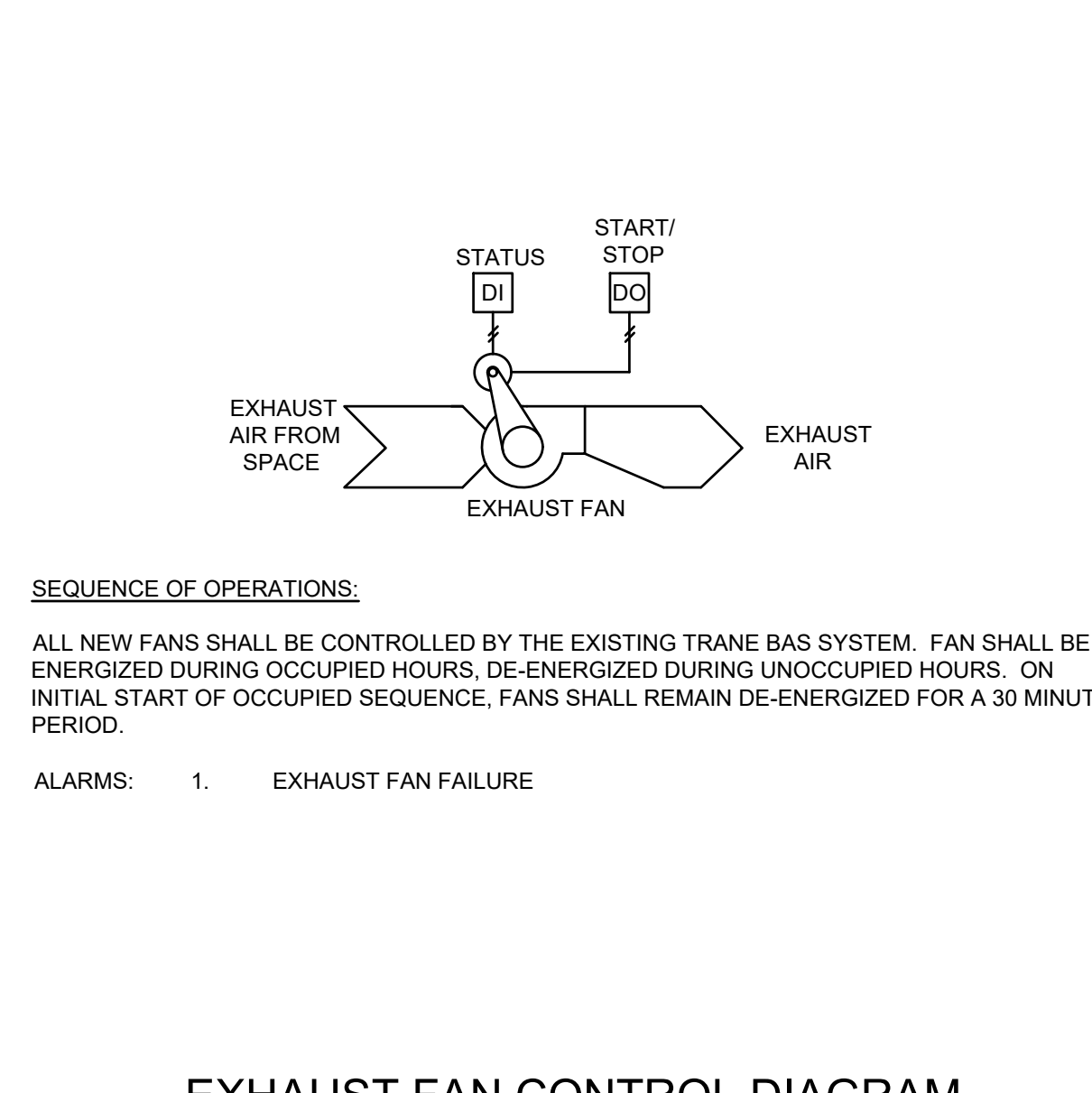
SUPPLY AIR DIFFUSER



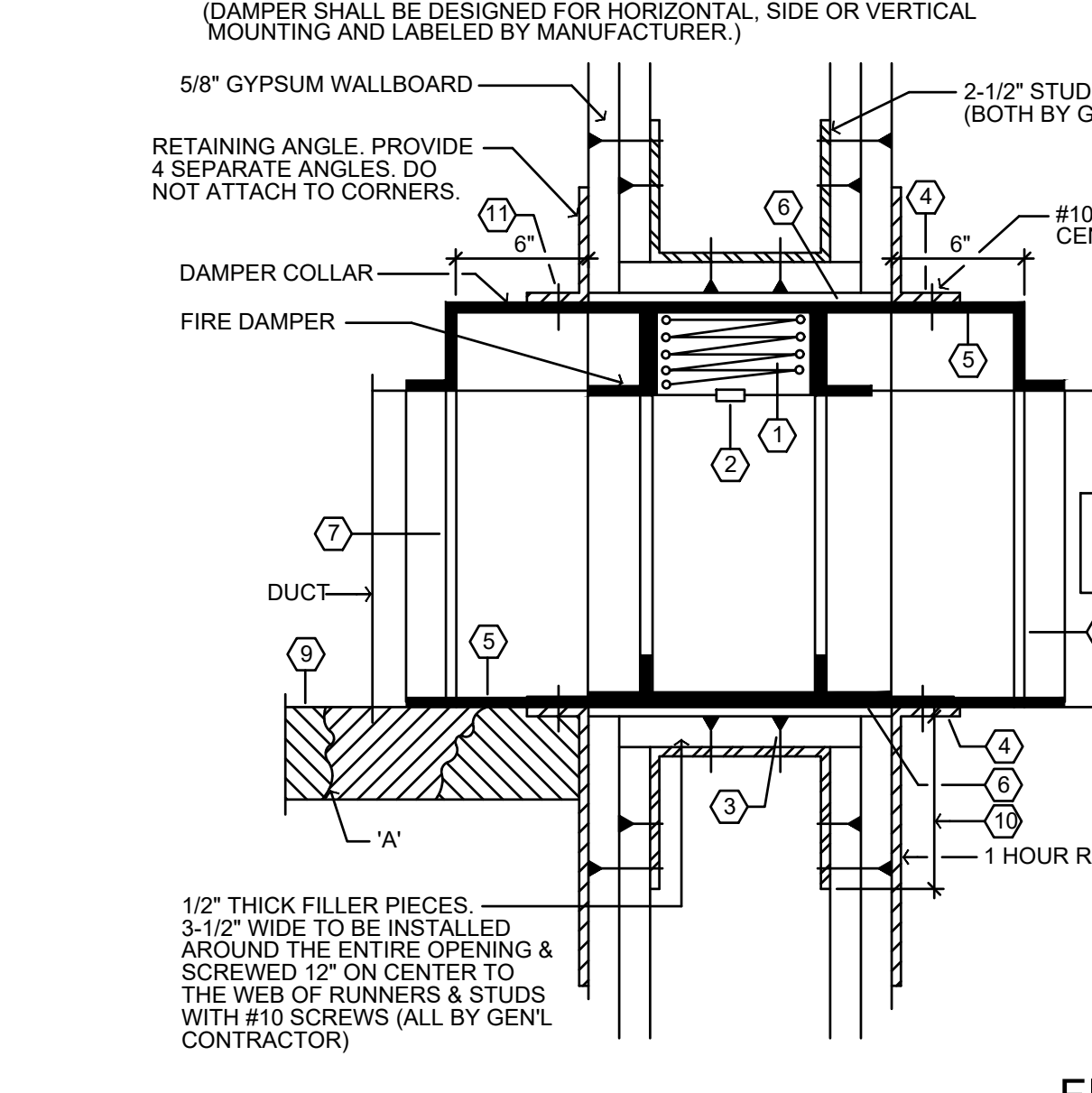
RETURN, TRANSFER, OR EXHAUST AIR GRILLE



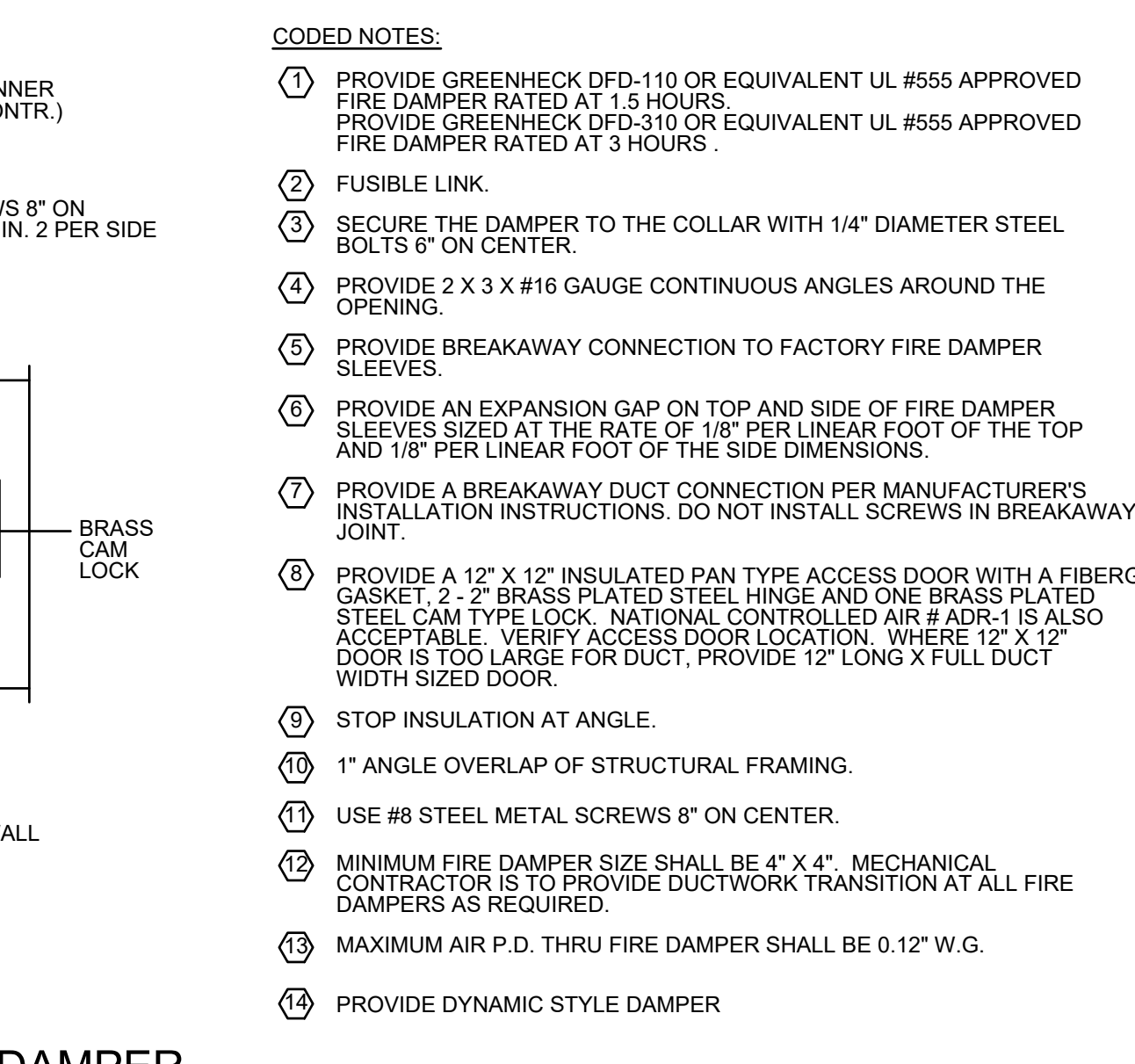
AHU CONTROL DIAGRAM (HEAT PUMP)



EXHAUST FAN CONTROL DIAGRAM



FIRE DAMPER



BID SET

DIRECT EXPANSION ROOF TOP UNIT SCHEDULE

ROOF TOP UNIT TAG	-	(N)RTU-1A	(E)RTU-1	(N)RTU-2A	(E)RTU-2	(N)RTU-3A	(N)RTU-4A	(N)RTU-5A	(N)RTU-6A	(N)RTU-7A	(N)RTU-8A	(N)RTU-9A	(N)RTU-40	(N)RTU-41	(E)RTU-42	(N)RTU-43	(E)RTU-49	(N)RTU-50	(N)RTU-51	(N)RTU-52	(N)RTU-53
DX COOLING COIL	-	BEFORE FAN	BEFORE FAN	BEFORE FAN	BEFORE FAN	BEFORE FAN	BEFORE FAN	BEFORE FAN	BEFORE FAN	BEFORE FAN	BEFORE FAN	BEFORE FAN	BEFORE FAN	BEFORE FAN	BEFORE FAN	BEFORE FAN	BEFORE FAN	BEFORE FAN	BEFORE FAN	BEFORE FAN	BEFORE FAN
LOCATION	-	4	25	25	0	3	15	15	8	17.5	3.0	4.0	10.0	12.5	9	10	5	3	8	7.5	4
NOMINAL TONNAGE	TONS	47,800	-	269,090	-	36,270	172,830	179,250	85,970	178,800	28,058	45,960	109,640	142,930	-	109,140	-	35,770	69,480	86,970	47,730
TOTAL CAPACITY	BTUH	36,910	-	212,740	-	25,890	117,150	125,120	62,440	188,250	22,728	3,257	87,820	99,720	-	87,600	-	24,680	52,940	64,430	36,160
SENSIBLE CAPACITY	BTUH	10,890	-	56,350	-	10,380	55,880	54,130	23,530	10,550	5,330	42,703	21,820	43,210	-	21,540	-	11,090	16,540	22,540	11,570
LATENT CAPACITY	BTUH	76.38 / 63.98	-	76.88/64.38	-	77.27/64.75	78.08/65.52	76.88/64.38	77.5/65.0	77.09/64.6	77.09/64.6	77.5/65.0	77.2/64.7	77.09/64.6	-	77.2/64.7	-	77.09/64.6	76.8/64.1	76.9/64.4	76.8/64.3
ENT. AIR TEMP (DB/WB)	DEG F/DEG F	58.06 / 54.25	-	55.7 / 54.54	-	55.3 / 53.41	56.1 / 53.62	58.38 / 55.4	54.69 / 53.41	56.31 / 54.85	55.0/54.5	54.42 / 52.66	55.13 / 54.55	57.94 / 54.6	-	54.79 / 54.18	-	54.75 / 52.83	56.52 / 53.83	55.33 / 53.6	56.07 / 54.2
LVG. AIR TEMP (DB/WB)	DEG F/DEG F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ELECTRIC STRIP HEATER	-	AFTER FAN	AFTER FAN	AFTER FAN	AFTER FAN	AFTER FAN	AFTER FAN	AFTER FAN	AFTER FAN	AFTER FAN	AFTER FAN	AFTER FAN	AFTER FAN	AFTER FAN	AFTER FAN	AFTER FAN	AFTER FAN	AFTER FAN	AFTER FAN	AFTER FAN	AFTER FAN
LOCATION	-	12 / 2	-	54 / 2	-	6.0 / 1	27 / 2	36 / 2	18 / 1	27 / 2	6.0/1	6.0/1	18 / 1	36 / 2	-	18 / 1	-	6 / 1	18 / 1	18 / 1	12 / 2
TOTAL CAPACITY	KW/STEPS	1680	2400	9290	1395	1090	4930	6255	2535	6070	945	1330	3635	4795	3165	3855	2220	1000	2325	2765	1615
SUPPLY AIR FLOW	CFM	1535	2255	8265	1195	945	4045	5570	2160	5230	830	1200	3105	4170	2750	3390	1970	845	2110	2465	1445
RETURN AIR FLOW	CFM	145	145	1025	200	145	885	685	375	840	115	130	530	625	415	465	250	155	215	300	170
FILTRATION	MERV	8	-	8	-	8	8	8	8	8	8	8	8	8	-	8	-	8	8	8	8
EXTERNAL STATIC PRESSURE	IN WG	0.5	-	0.5	-	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	-	0.5	-	0.5	0.5	0.5	0.5
TOTAL STATIC PRESSURE	IN WG	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DRIVE TYPE	-	DIRECT	-	BELT	-	DIRECT	BELT	BELT	DIRECT	BELT	DIRECT	DIRECT	DIRECT	BELT	-	DIRECT	-	DIRECT	BELT	DIRECT	DIRECT
EVAPORATOR FAN TYPE	-	FC	-	FC	-	FC	FC	FC	PLENUM	FC	FC	PLENUM	FC	FC	-	PLENUM	-	FC	FC	PLENUM	FC
EVAPORATOR FAN MOTOR	HP/BHP	1 / 0.54	-	7.5 / 6.65	-	0.75 / 0.43	3 / 1.62	3 / 2.58	2.75 / 1.58	5 / 2.32	1/2 / 1/2	0.75 / 0.38	2.75 / 1.4	1.79 / 1.34	-	2.75 / 1.39	-	0.75 / 0.38	1.0 / 0.83	2.75 / 0.64	1 / 0.5
EVAPORATOR FAN SPEED	RPM	887	-	889	-	872	551	623	979	598	VARIABLE	825	1,276	628	-	1,273	-	845	740	1,037	874
NO. OF COMPRESSORS / STAGES	-	1 / 1	-	2 / 2	-	1 / 1	2 / 2	2 / 2	2 / 3	2 / 2	1 / 1	2 / 3	2 / 2	2 / 3	-	2 / 3	-	1 / 1	2 / 3	2 / 3	1 / 1
NO. OF CONDENSER FANS	-	1	-	2	-	1	2	2	1	2	1	2	1	2	-	1	-	1	1	2	1
SEER	-	11.6	-	10.8	-	12.7	12.1	12.1	12.6	11.8	12.0	11.6	12.4	12.1	-	12.4	-	12.7	12.6	12.6	11.6
SEER / IEER	-	14.2	-	12.4	-	15.0	14.0	14.0	14.5	13.0	15.0	14.2	14.7	13.5	-	14.7	-	15.0	14.5	14.5	14.2
REFRIGERANT TYPE	-	R-410A	-	R-410A	-	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	-	R-410A	-	R-410A	R-410A	R-410A	R-410A
UNIT MCA	AMPS	22	-	80.0	-	15.0	48.0	62.0	33.0	52.0	47.0	33.0	62.0	31.0	-	33.0	-	15.0	43.0	31.0	22.0
UNIT MOC	AMPS	25	-	90.0	-	15.0	50.0	60.0	35.0	55.0	45.0	35.0	70.0	35.0	-	35.0	-	15.0	35.0	25.0	25.0
VOLTAGE	V/PH/Hz	480/3/60	-	480/3/60	-	480/3/60	480/3/60	480/3/60	480/3/60	480/3/60	208-230/1/60	480/3/60	480/3/60	480/3/60	-	480/3/60	-	480/3/60	480/3/60	480/3/60	480/3/60
WEIGHT	LBS	1005	EXISTING	2,600	EXISTING	775	1,005	2,340	2,340	1,230	1,675	1,100	2,340	1,675	EXISTING	2,540	EXISTING	775	1,190	1,230	1,005
MANUFACTURER	-	TRANE	EXISTING	TRANE	EXISTING	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	EXISTING	TRANE	EXISTING	TRANE	TRANE	TRANE	TRANE
MODEL	-	THC048E	-	THC300G	-	THC038E	THD180G	THC092F	THD210G	THC092F	4TCY5030	THC048E	THC120F	THC150G	-	THC120F	-	THC038E	THC072E	THC062F	THC048E
NOTES	-	1-14,16, 17	-	1-14,16, 17	-	1-14,16, 17	1-14,16, 17	1-14,16, 17	1-14,16, 17	1-14,16, 17	1-4,6,7,8,9,12,13,14,16	1-14,16, 17	1-13,15-17	1-13,15-17	-	1-13,15-17	-	1-13,15-17	1-13,15-17	1-13,15-17	1-13,15-17

NOTES:

- POTENTIAL BIDDING MANUFACTURERS SHALL PROVIDE IN THEIR SUBMITTAL A COPY OF THIS SCHEDULE WITH THEIR PROPOSED VALUES FOR REVIEW BY ENGINEER. SUBMITTAL SHALL BE REJECTED IF THIS SCHEDULE IS MISSING. CONTACT ENGINEER FOR BLANK SCHEDULE.
- PROVIDE STRAIGHT COOL SYSTEM.
- PROVIDE SINGLE POINT POWER CONNECTION.
- PROVIDE THROUGH THE BASE ELECTRICAL WITH A FACTORY MOUNTED CIRCUIT BREAKER.
- PROVIDE FACTORY INSTALLED HIGH AND LOW PRESSURE CONTROLS
- PROVIDE CONDENSER COIL GUARDS
- PROVIDE 120V WEATHERPROOF POWERED CONVENIENCE OUTLET ON OUTSIDE OF UNIT.
- NOT USED.
- PROVIDE SINGLE WALL UNIT.
- NOT USED
- PROVIDE STAINLESS STEEL DRAIN PAN, POSITIVELY SLOPED IN TWO DIRECTIONS.
- PROVIDE UNIT WITH HINGED ACCESS PANELS WITH TOOLLESS ACCESS
- PROVIDE LOW AMBIENT TEMPERATURE CONTROLS.
- PROVIDE UNIT WITH ROOFCURB WITH HURRICANE TIE DOWNS. CURB SHALL BE PROVIDED WITH PE STAMPED DRAWINGS BY A FL STRUCTURAL ENGINEER
- PROVIDE UNIT WITH ROOFCURB ADAPTER WITH HURRICANE TIE DOWNS. CURB SHALL BE PROVIDED WITH PE STAMPED DRAWINGS BY A FL STRUCTURAL ENGINEER
- PROVIDE UNIT WITH FACTORY MOUNTED ECONOMIZER WITH COMPARATIVE ENTHALPY CONTROLS AND BAROMETRIC RELIEF DAMPER
- PROVIDE UNIT WITH FACTORY MOUNTED HOT GAS REHEAT WITH DUCT MOUNTED HUMIDITY SENSOR AND ALL RELATED CONTROLS

DIRECT EXPANSION ROOF TOP UNIT SCHEDULE CONT.

(N)RTU-54	(N)RTU-55	(N)RTU-56	(N)RTU-57	(N)RTU-58	(E)RTU-59	(N)RTU-60	(E)RTU-61	(N)RTU-62	(N)RTU-63	(N)RTU-65	(N)RTU-66	(N)RTU-67	(N)RTU-68	(N)RTU-69	(N)RTU-70	(N)RTU-71	(N)RTU-72	(N)RTU-73	(N)RTU-74	(N)RTU-75	(N)RTU-76	(N)RTU-77	(N)RTU-78			
BEFORE FAN	BEFORE FAN	BEFORE FAN	BEFORE FAN	BEFORE FAN	BEFORE FAN	BEFORE FAN	BEFORE FAN	BEFORE FAN	BEFORE FAN	BEFORE FAN	BEFORE FAN	BEFORE FAN	BEFORE FAN	BEFORE FAN	BEFORE FAN	BEFORE FAN	BEFORE FAN	BEFORE FAN	BEFORE FAN	BEFORE FAN	BEFORE FAN	BEFORE FAN	BEFORE FAN			
37,100	37,290	140,650	46,120	23,200	-	94,780	-	37,080	87,770	87,770	47,770	27,400	86,400	47,130	86,340	85,490	89,440	48,420	69,640	59,890	60,750	46,110	35,840			
28,230	29,130	96,570	35,490	15,100	-	71,890	-	29,260	64,910	64,910	34,870	21,520	63,760	34,870	63,840	62,720	69,540	49,780	69,540	44,980	44,900	31,800	24,670			
8,870	8,160	44,080	10,630	8,100	-	22,890	-	7,820	22,860	22,860	12,900	5,880	22,640	13,000	22,500	22,770	19,900	10,550	19,860	15,410	15,850	14,310	11,170			
76.8/64.3	76.5/64.0	77.2/64.7	75.3/63.1	77.4/64.9	-	76.8/64.4	-	76.1/63.7	77.2/64.7	76.8/64.4	77.6/65.1	64.2/53.8	76.9/64.4	77.6/65.0	76.8/64.3	76.9/64.4	77.6/64.3	76.7/64.2	77.8/65.3	76.9/64.4	77.4/64.9	77.7/65.2	77.9/65.3			
56.14 / 54.29	56.3 / 54.44	57.1 / 53.91	55.75 / 53.36	57.5 / 56.8	-	55.66 / 54.62	-	55.95 / 54.22	55.89 / 54.1	55.6 / 53.81	56.29 / 54.45	43.45 / 41.65	54.91 / 53.33	55.58 / 53.83	54.87 / 53.26	54.35 / 52.93	55.58 / 53.83	54.87 / 53.26	54.35 / 52.93	57.16 / 54.53	56.66 / 54.78	54.16 / 53.11	54.70 / 53.28	55.52 / 54.03	54.7 / 52.86	54.83 / 52.92
AFTER FAN	AFTER FAN	AFTER FAN	AFTER FAN	AFTER FAN	AFTER FAN	AFTER FAN	AFTER FAN	AFTER FAN	AFTER FAN	AFTER FAN	AFTER FAN	AFTER FAN	AFTER FAN	AFTER FAN	AFTER FAN	AFTER FAN	AFTER FAN	AFTER FAN	AFTER FAN	AFTER FAN	AFTER FAN	AFTER FAN	AFTER FAN			
12 / 2	6 / 1	18 / 1	12/1	4.0 / 1	-	18 / 1	-	6 / 1	18 / 1	18 / 1	6 / 1	6 / 1	18 / 1	6 / 1	18 / 1	18 / 1	18 / 1	12 / 2	9 / 1	12 / 2	12 / 2	6 / 1	6 / 1			
1265	1335	4445	1560	650	2400	3020	2400	1345	2820	2825	1515	565	2685	1435	2695	2575	3120	1750	1950	1855	1900	1265	990			
1135	1220	3865	1500	550	2455	2255	2545	1255	2510	2455	1280	540	2390	1220	2420	2285	2770	1630	1580	1630	1580	1065	825			
130	115	580	60	100	145	475	145	90	365	315	235	25	295	215	275	290	350	170	320	205	270	200	165			
8	8	8	8	8	-	8	-	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8			
0.5	0.5	0.5	0.5	0.5	-	0.5	-	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5			
DIRECT	DIRECT	BELT	DIRECT	DIRECT	-	DIRECT	-	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT			
FC	FC	FC	FC	FC	-	PLENUM	-	FC	PLENUM	PLENUM	FC	FC	PLENUM	FC	PLENUM	PLENUM	PLENUM	FC	FC	FC	FC	FC	FC			
0.75 / 0.54	0.75 / 0.58	3.0 / 1.55	1 / 0.46	1/2 / 1/2	-	2.75 / 0.78	-	0.75 / 0.59	2.75 / 0.66	2.75 / 0.66	1 / 0.46	0.75 / 0.36	2.75 / 0.6	1.042	2.75 / 0.61	2.75 / 0.56	2.75 / 0.81	1 / 0.57	2 / 0.62	1 / 0.65	1 / 0.68	1 / 0.36	0.75 / 0.37			
928	950	605	857	VARIABLE	-	1,146	-	953	1,050	1,050	857	838	1,017	842	1,019	989	1,130	901	927	937	816	842	842			
1 / 1	1 / 1	2 / 2	1 / 1	1 / 1	-	2 / 3	-	1 / 1	2 / 3	2 / 3	1 / 1	1 / 1	2 / 3	1 / 1	2 / 3	2 / 3	2 / 3	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1			
1	1	1	1	1	-	1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
12.7	12.7	12.1	11.6	12.0	-	12.5	-	12.7	12.6	12.6	11.6	12.7	12.6	11.6	12.6	12.6	12.6	11.6	11.9	11.9	11.9	11.6	12.7			
15.0	15.0	13.5	14.2	15.0	-	14.7	-	15.0	14.5	14.5	14.2	15.0	14.5	14.2	14.5	14.5	14.5	14.2	14.5	14.2	14.2	15.0	15.0			
R-410A	R-410A	R-410A	R-410A	R-410A	-	R-410A	-	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A			
24.0	24.0	35.0	32.0	32.0	-	32.0	-	32.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	22.0	22.0	22.0	22.0	15.0	15.0			
25.0	25.0	40.0	35.0	35.0	-	35.0	-	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	25.0	25.0	25.0	25.0	15.0	15.0			
480/3/60	480/3/60	480/3/60	480/3/60	208/1/60	-	480/3/60	-	480/3/60	480/3/60	480/3/60	480/3/60	480/3/60	480/3/60	480/3/60	480/3/60	480/3/60	480/3/60	480/3/60	480/3/60	480/3/60	480/3/60	480/3/60	480/3/60			
775	775	2,540	1,005	400	EXISTING	1,220	EXISTING	775	1,230	1,005	775	1,005	1,230	1,005	1,230	1,005	1,230	1,005	1,190	1,025	1,025	1,005	775			
THC036E	THC036E	THC020F	THC048E	4TIC0502A	-	THC0102F	EXISTING	THC038E	THC020F	THC038E	THC020F	THC048E	THC038E	THC020F	THC048E	THC020F	THC048E	THC020F	THC048E	THC020F	THC038E	THC048E	THC038E			
1-13,15-17	1-13,15-17	1-13,15-17	1-13,15-17	1-13,15-17	1-13,15-17	1-13,15-17	1-13,15-17	1-13,15-17	1-13,15-17	1-13,15-17	1-13,15-17	1-13,15-17	1-13,15-17	1-13,15-17	1-13,15-17	1-13,15-17	1-13,15-17	1-13,15-17	1-13,15-17	1-13,15-17	1-13,15-17	1-13,15-17	1-13,15-17			

DIRECT EXPANSION DUCTLESS SPLIT SYSTEM SCHEDULE																					
INDOOR UNIT TAG	-	AC-1	AC-2	AC-3	AC-4	AC-5	AC-6	AC-7	AC-8	AC-9	AC-10	AC-11	AC-12	AC-13	AC-14	AC-15	AC-16	AC-17	AC-18	AC-19	AC-20
UNIT TYPE	-	CASSETTE	CASSETTE	CASSETTE	CASSETTE	WALL HUNG	WALL HUNG	WALL HUNG	WALL HUNG	WALL HUNG	WALL HUNG	CASSETTE	CASSETTE	WALL HUNG	CASSETTE	CASSETTE	CASSETTE	CASSETTE	WALL HUNG	CASSETTE	CASSETTE
NOMINAL TONNAGE	TONS	1	1	0.75	1	1	2	2	1	1	2	1	1	1	1	1	1	1	1	1	1
TOTAL COOLING CAPACITY	BTUH	11,489	11,489	9,000	13,208	9,835	24,000	24,000	10,215	10,121	24,000	8,785	10,992	9,851	8,373	10,910	7,372	12,802	10,501	12,992	8,881
TOTAL AIR FLOW	CFM (HIGH/MEDIUM/LOW)	335/265/230	335/265/230	300/265/230	335/265/230	399/237/145	738/544/388	738/544/388	399/237/145	399/237/145	738/544/388	335/265/230	335/265/230	399/237/145	335/265/230	335/265/230	335/265/230	335/265/230	399/237/145	335/265/230	335/265/230
WEIGHT	LBS	31	31	31	31	22	37	37	22	22	37	31	9	31	31	31	31	31	31	31	31
MANUFACTURER	-	MTSUBISHI	MTSUBISHI	MTSUBISHI	MTSUBISHI	MTSUBISHI	MTSUBISHI	MTSUBISHI	MTSUBISHI	MTSUBISHI	MTSUBISHI	MTSUBISHI	MTSUBISHI	MTSUBISHI	MTSUBISHI	MTSUBISHI	MTSUBISHI	MTSUBISHI	MTSUBISHI	MTSUBISHI	MTSUBISHI
MODEL	-	NTXCKS12A112AA	NTXCKS12A112AA	NTXCKS09A112A	NTXCKS12A112AA	NTYWST12A112A	NTYWST24A112A	NTYWST24A112A	NTYWST12A112A	NTYWST12A112A	NTYWST24A112A	NTXCKS12A112AA	NTXCKS12A112AA	NTYWST12A112A	NTXCKS12A112AA	NTXCKS12A112AA	NTXCKS12A112AA	NTXCKS12A112AA	NTYWST12A112A	NTXCKS12A112AA	NTXCKS12A112AA
OUTDOOR UNIT TAG	-	C-1	C-2	C-3	C-4	C-5	C-6	C-7	C-8	C-9	C-10	C-11	C-12	C-13	C-14	C-15	C-16	C-17	C-18	C-19	C-20
NO. OF COMPRESSORS	# OF INVERTER	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
NO. OF CONDENSER FANS	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
SEER	-	22	22	22.4	22	23.1	20.5	20.5	23.1	23.1	20.5	22	22	23.1	22	22	22	22	23.1	22	22
REFRIGERANT TYPE	-	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
UNIT MCA	AMPS	9	9	9	7	7	17.1	17.1	7	7	17.1	9	9	7	9	9	9	9	7	9	9
UNIT MOCP	AMPS	16	16	15	16	15	20	20	15	15	20	16	16	15	16	16	16	16	15	16	16
VOLTAGE	V/PH/Hz	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60
WEIGHT	LBS	81	81	81	81	81	119	119	81	81	119	81	81	81	81	81	81	81	81	81	81
MANUFACTURER	-	MTSUBISHI	MTSUBISHI	MTSUBISHI	MTSUBISHI	MTSUBISHI	MTSUBISHI	MTSUBISHI	MTSUBISHI	MTSUBISHI	MTSUBISHI	MTSUBISHI	MTSUBISHI	MTSUBISHI	MTSUBISHI	MTSUBISHI	MTSUBISHI	MTSUBISHI	MTSUBISHI	MTSUBISHI	MTSUBISHI
MODEL	-	NTXSKS12A112AA	NTXSKS12A112AA	NTXSKS09A112AA	NTXSKS12A112AA	NTYSS12A112AA	NTYSS12A112A	NTYSS12A112A	NTYSS12A112AA	NTYSS12A112AA	NTYSS12A112A	NTXSKS12A112AA	NTXSKS12A112AA	NTYSS12A112AA	NTXSKS12A112AA	NTXSKS12A112AA	NTXSKS12A112AA	NTXSKS12A112AA	NTYSS12A112AA	NTXSKS12A112AA	NTXSKS12A112AA
NOTES	-	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL

- NOTES:
1. PROVIDE COOLING ONLY SYSTEM FOR HIGH WALL UNITS AND CASSETTE UNITS.
 2. PROVIDE FACTORY DISCONNECT FROM INDOOR UNIT TO OUTDOOR UNIT. ELECTRICAL CONTRACTOR TO PROVIDE.
 3. SINGLE DISCONNECT AT OUTDOOR UNIT.
 3. PROVIDE WIRED WALL MOUNTED PROGRAMMABLE THERMOSTAT, 24 HOUR/7-DAY TYPE.
 4. MANUFACTURER TO REVIEW REFRIGERANT PIPING DISTANCE REQUIREMENTS AND SIZE PIPING AND ACCESSORIES AS REQUIRED FOR LINE LENGTH. REDUCE EQUIPMENT CAPACITIES AS MAY BE REQUIRED.
 5. PROVIDE CONDENSER COIL GUARDS.

DIRECT EXPANSION DUCTLESS SPLIT SYSTEM SCHEDULE CONT.

AC-21	AC-22	AC-23	AC-24	AC-25	AC-26	AC-27	AC-28	AC-29
CASSETTE	CASSETTE	WALL HUNG	WALL HUNG	WALL HUNG	WALL HUNG	WALL HUNG	WALL HUNG	WALL HUNG
1	1	2	1	1	2	0.75	1	2
9,248	8,675	24,000	10,215	12,000	24,000	9,000	12,000	24,000
335/265/230	335/265/230	738/544/388	399/237/145	399/237/145	738/544/388	399/237/145	399/237/145	738/544/388
31	31	22	22	22	37	22	22	37
MTSUBISHI	MTSUBISHI	MTSUBISHI	MTSUBISHI	MTSUBISHI	MTSUBISHI	MTSUBISHI	MTSUBISHI	MTSUBISHI
NTXCKS12A112AA	NTXCKS12A112AA	NTYWST24A112A	NTYWST12A112A	NTYWST12A112A	NTYWST24A112A	NTYWST09A112A	NTYWST12A112A	NTYWST24A112A
C-21	C-22	C-23	C-24	C-25	C-26	C-27	C-28	C-29
1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1
22	22	20.5	23.1	23.1	20.5	24.6	23.1	20.5
R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
9	9	17.1	7	7	17.1	7	7	17.1
16	16	20	15	15	20	15	15	20
208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60
81	119	81	81	81	119	81	81	119
MTSUBISHI	MTSUBISHI	MTSUBISHI	MTSUBISHI	MTSUBISHI	MTSUBISHI	MTSUBISHI	MTSUBISHI	MTSUBISHI
NTXSKS12A112AA	NTXSKS12A112AA	NTYSS12A112A	NTYSS12A112AA	NTYSS12A112AA	NTYSS12A112A	NTYSS12A112AA	NTYSS12A112AA	NTYSS12A112A
ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL

FAN SCHEDULE

FAN TAG	-	EF-1	EF-2	EF-3	EF-4	EF-5	EF-6	EF-7	EF-8	EF-9	EF-10	EF-11	EF-12	EF-13	EF-14
SERVICE TYPE	-	ROOF EXHAUST AIR	ROOF EXHAUST AIR	ROOF EXHAUST AIR	ROOF EXHAUST AIR	ROOF EXHAUST AIR	ROOF EXHAUST AIR	ROOF EXHAUST AIR	ROOF EXHAUST AIR	ROOF EXHAUST AIR	ROOF EXHAUST AIR	ROOF EXHAUST AIR	ROOF EXHAUST AIR	ROOF EXHAUST AIR	EXHAUST
AIR FLOW	CFM	420	190	140	210	140	210	210	210	120	280	610	750	890	70
EXTERNAL STATIC PRESSURE	IN WG	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
FAN TYPE	-	ROOF MOUNTED	ROOF MOUNTED	ROOF MOUNTED	ROOF MOUNTED	ROOF MOUNTED	ROOF MOUNTED	ROOF MOUNTED	ROOF MOUNTED	ROOF MOUNTED	ROOF MOUNTED	ROOF MOUNTED	ROOF MOUNTED	ROOF MOUNTED	CEILING
DRIVE TYPE	-	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
MOTOR	HP/BHP	0.110/09	0.110/06	0.250/04	0.250/04	0.250/04	0.250/04	0.125/0.06	0.125/0.06	0.125/0.06	250/05	0.250/0.12	0.50/0.13	0.50/0.16	6 WATTS
SPEED	RPM	1,646	1,560	1,218	1,390	1,218	1,390	1,390	1,390	1,390	1,445	1,332	1,122	1,194	838
SONES	-	8.3	7.8	5.5	8.3	5.5	8.3	8.3	8.3	5	9.1	8.3	7.7	8.5	2
VOLTAGE	V/PH/Hz	120/1/60	120/1/60	120/1/60	120/1/60	120/1/60	120/1/60	120/1/60	120/1/60	120/1/60	120/1/60	120/1/60	120/1/60	120/1/60	120/1/60
WEIGHT	LBS	29	28	38	31	38	31	31	38	29	49	49	43	43	12
MANUFACTURER	-	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK
MODEL	-	G-090-VG	G-080-VG	G-097-VG	G-095-D	G-097-VG	G-095-D	G-095-D	G-095-D	G-097-VG	G-095-VG	G-099-A	G-120-VG	G-120-VG	SP-A50-90-VG
NOTES	-	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-6

- NOTES:
1. PROVIDE FACTORY DISCONNECT.
 2. PROVIDE SOLID STATE SPEED CONTROLLER FOR FAN, (IF FAN IS AN EC-MOTOR DRIVEN FAN, THEN NOT NEEDED)
 3. PROVIDE ROOF CURB.
 4. FAN TO HAVE FLORIDA NOTICE OF ACCEPTANCE (NOA) NUMBER, FLORIDA PRODUCT APPROVAL NUMBER, AND BE MIAMI-DADE COUNTY APPROVED.
 5. PROVIDE BACKDRAFT DAMPER.
 6. PROVIDE WHITE ALUMINUM GRILLE.

EMERALD

ENGINEERING INC.

9942 CURRIE DAVIS DR. STE #1, TAMPA, FL 33619

FLORIDA 9B-27845

WWW.EMERALDNEP.COM

EEL PROJECT # 210120

FLORIDA NOTICE
OF FILING
9942 CURRIE DAVIS DR. STE #1
TAMPA, FLORIDA 33619
TEL (813) 993-0300
FAX (813) 993-0300
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34 WYDOW AVE. SUITE 300
TAMPA, FLORIDA 33609
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FAX (813) 993-0300
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181 FOUNTAIN VIEW BLVD
TAMPA, FLORIDA 33606
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FAX (813) 993-0300
WWW.FLEISCHMANGARCIA.COM

ROOMS TO GO

OFFICES RENOVATION AND EXPANSION

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BID SET

MICHAEL A. COSTELLO, PE
FL REG. NO. PE81436

S/S Date
FGA PROJECT NUMBER
21003

ISSUE DATE
08-25-21

REVISIONS		NOTES
NO.	DATE	ADDITIONAL #2

SHEET NAME
HVAC SCHEDULES

SHEET NUMBER
M.601



KEYNOTE LEGEND

- EXISTING ROOF TOP UNIT, CONDENSATE PIPING, ROOF CURB AND ROOF PENETRATION TO REMAIN.
- EXISTING ROOF TOP UNIT AND CONDENSATE PIPING TO BE REMOVED AND DISPOSED OF.
- EXISTING ROOF CURB TO REMAIN.
- REMOVE AND DISPOSE OF EXISTING ROOF CURB.
- EXISTING EXHAUST ROOF PANS, EXHAUST ROOF CAP AND ASSOCIATED ACCESSORIES TO BE REMOVED. PATCH ROOF PENETRATION AS REQUIRED.



E	D	C
B	A	

EMERALD ENGINEERING INC.
9942 CURRIE DAVIS DR. STE H, TAMPA, FL 33619
TEL (813) 995-0300
WWW.EMERALDNEP.COM
EEL PROJECT # 210120

FLEISCHMANGARCIA
ARCHITECTURE, PLANNING, INTERIOR
344 HYDRA PARK AVENUE, SUITE 300
TAMPA, FL 33606
PHONE (813) 331-4800
FAX (813) 331-1994
WWW.FLEISCHMANGARCIA.COM

1875 TAMPA AVENUE
187 FOUNTAIN AVENUE NORTH
TAMPA, FL 33606
PHONE (813) 724-8337
FAX (813) 724-2867

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SEFFNER, FLORIDA 33584

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BID SET

MICHAEL A. COSTELLO, PE
FL REG. NO. PE81436
S/S Date

FGA PROJECT NUMBER
21003

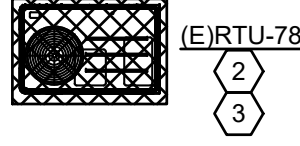
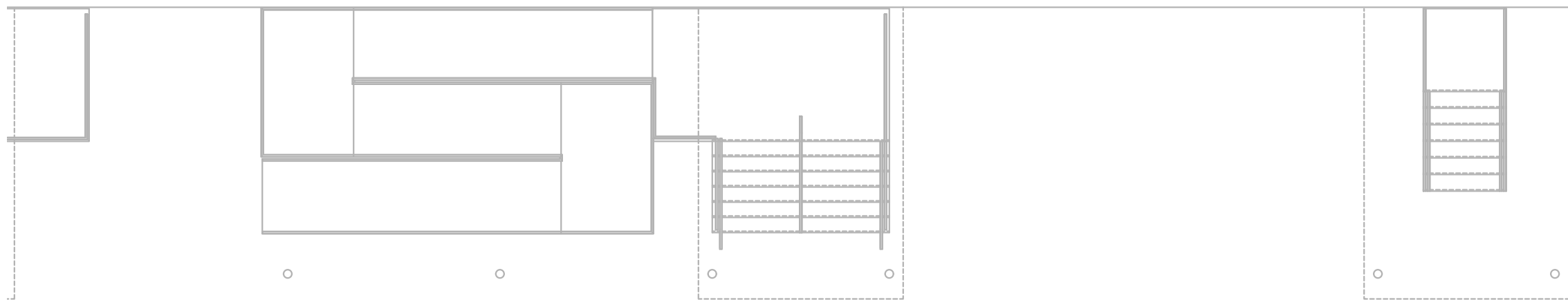
ISSUE DATE
08-25-21

NO	DATE	NOTES
1	08-13-21	ADDENDUM #2

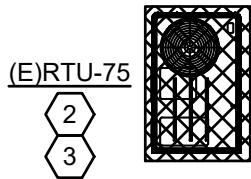
SHEET NAME

**DEMOLITION
ROOF PLAN**

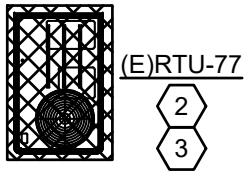
SHEET NUMBER
MD1.20A



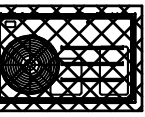
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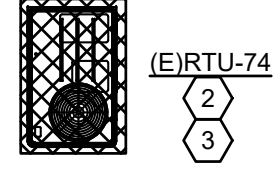
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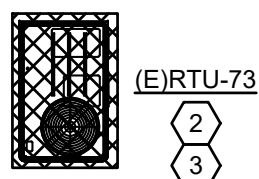
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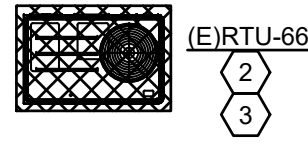
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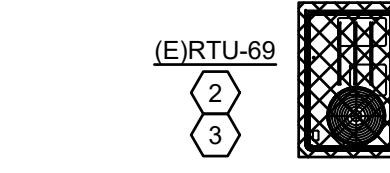
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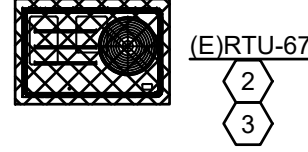
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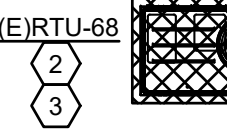
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EIRTU-69
2
3



EIRTU-67
2
3



EIRTU-68
2
3



EIRTU-66
2
3



EIRTU-68
2
3

KEYNOTE LEGEND

- EXISTING ROOF TOP UNIT, CONDENSATE PIPING, ROOF CURB AND ROOF PENETRATION TO REMAIN.
- EXISTING ROOF TOP UNIT AND CONDENSATE PIPING TO BE REMOVED AND DISPOSED OF.
- EXISTING ROOF CURB TO REMAIN.
- REMOVE AND DISPOSE OF EXISTING ROOF CURB.
- EXISTING EXHAUST ROOF PANS, EXHAUST ROOF CAP AND ASSOCIATED ACCESSORIES TO BE REMOVED. PATCH ROOF PENETRATION AS REQUIRED.



KEYPLAN

E	D	C
B		A

DEMOLITION ROOF PLAN 1
1/8"=1'-0"

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MICHAEL A. COSTELLO, PE
FL REG. NO. PE81436

S/S Date

FGA PROJECT NUMBER
21003

ISSUE DATE
08-25-21

REVISIONS	
NO	DATE
1	08-13-21
ADDITIONAL #2	

SHEET NAME

**DEMOLITION
ROOF PLAN**

SHEET NUMBER
MD1.20B

FLEISCHMANGARCIA
ARCHITECTURAL PLANNING INTERIOR

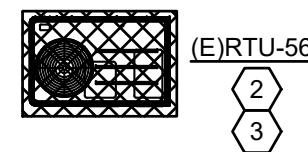
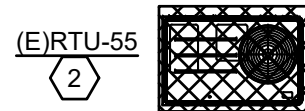
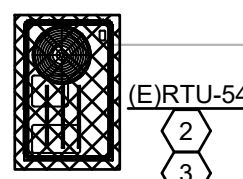
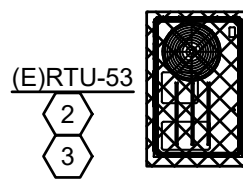
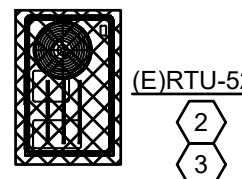
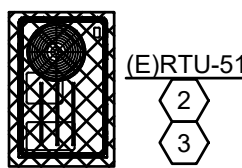
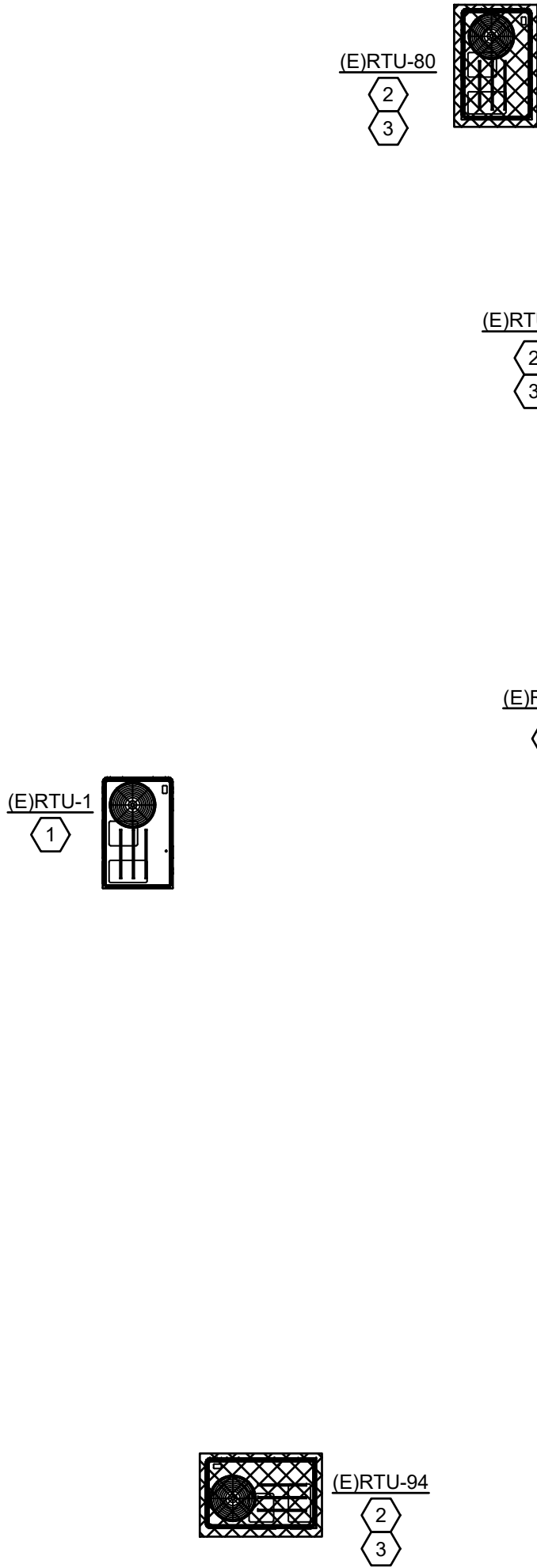
324 HYDE PARK AVENUE, SUITE 300
SEFFNER, FLORIDA 33584
PHONE: 813-335-2880
FAX: 813-335-1994
www.fleischmangarcia.com

SEFFNER, FLORIDA
1815 FOURTH AVENUE, SUITE 100
SEFFNER, FLORIDA 33584
PHONE: 813-335-2880
FAX: 813-335-1994
www.seffnerfl.com

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11540 E US-92
SEFFNER, FLORIDA 33584

EMERALD ENGINEERING INC.
9942 CURRIE DAVIS DR. STE H, TAMPA, FL 33619
TEL: (813) 995-0300
WWW.EMERALDNEP.COM
EEL PROJECT # 210120



- KEYNOTE LEGEND**
1. EXISTING ROOF TOP UNIT, CONDENSATE PIPING, ROOF CURB AND ROOF PENETRATION TO REMAIN.
 2. EXISTING ROOF TOP UNIT AND CONDENSATE PIPING TO BE REMOVED AND DISPOSED OF.
 3. EXISTING ROOF CURB TO REMAIN.
 4. REMOVE AND DISPOSE OF EXISTING ROOF CURB.
 5. EXISTING EXHAUST ROOF PANS, EXHAUST ROOF CAP AND ASSOCIATED ACCESSORIES TO BE REMOVED. PATCH ROOF PENETRATION AS REQUIRED.



DEMOLITION ROOF PLAN 1
1/8"=1'-0"

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S/S Date

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ISSUE DATE
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NO	DATE	NOTES
1	08-13-21	ADDENDUM #2

SHEET NAME

DEMOLITION
ROOF PLAN

SHEET NUMBER
MD1.20C

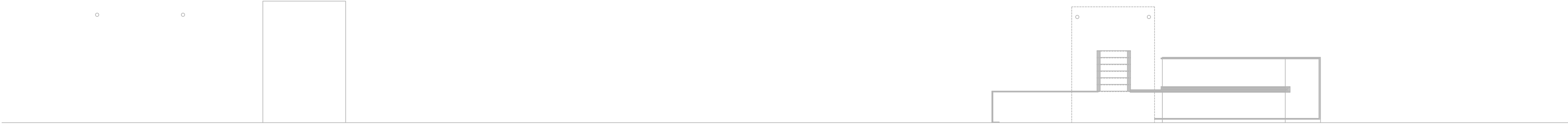
FLEISCHMANGARCIA
ARCHITECTURAL PLANNING INTERIOR
324 HYDE PARK AVENUE, SUITE 300
SEFFNER, FLORIDA 33584
PHONE: (813) 331-2880
FAX: (813) 331-1994
WWW.FLEISCHMANGARCIA.COM

18757 HANCOCK AVENUE
187 FORTNEY AVENUE NORTH
SEFFNER, FLORIDA 33584
PHONE: (727) 752-8837
FAX: (727) 752-2887
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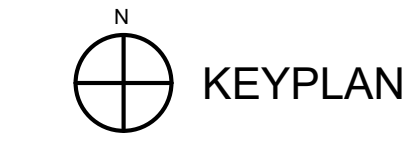
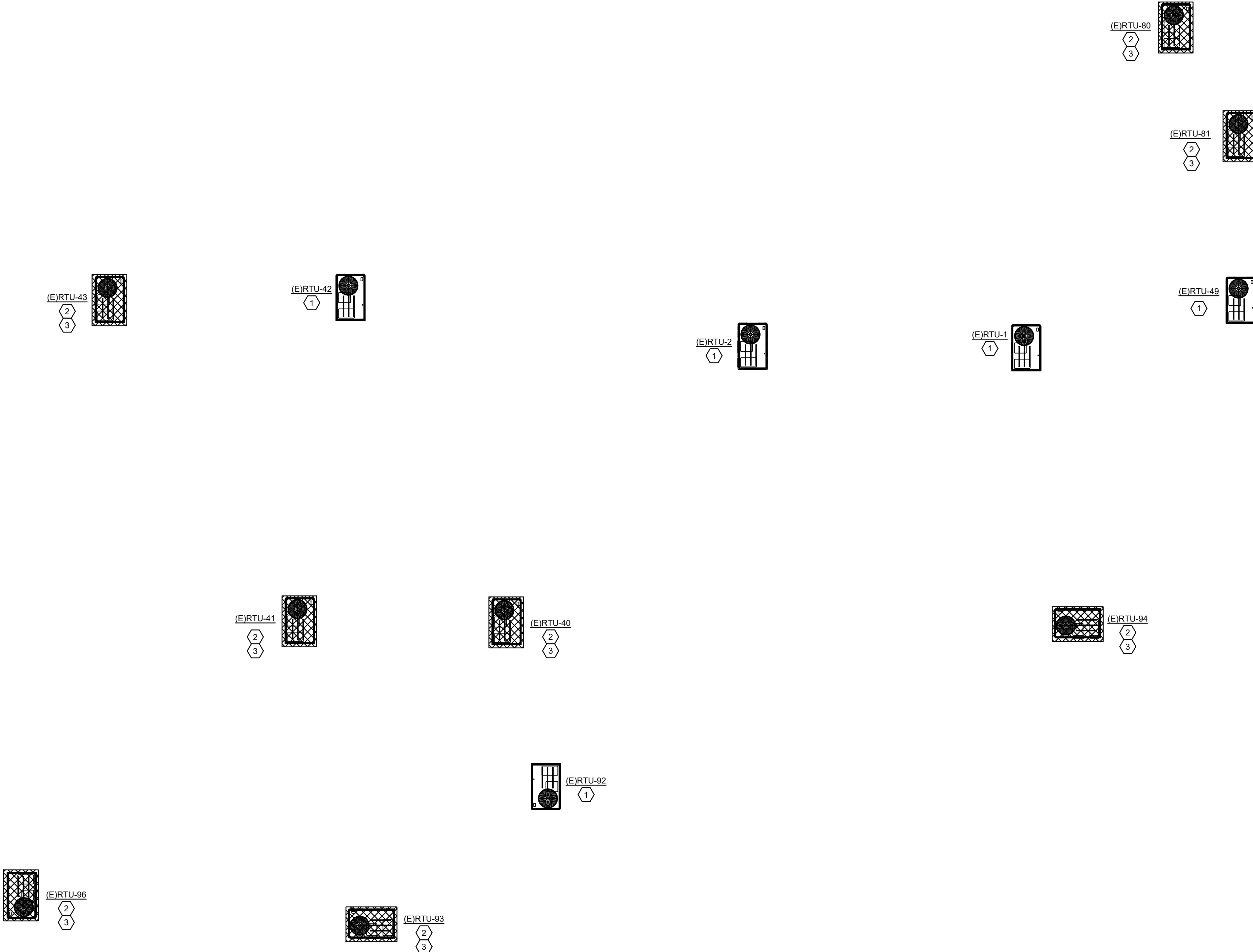
9942 CURRIE DAVIS DR. STE H, TAMPA, FL 33619
TEL: (813) 995-0300
FAX: (813) 995-0303
WWW.ENERGALDENGINEERING.COM
EEL PROJECT # 210120

ENERGALD
ENGINEERING INC.
9942 CURRIE DAVIS DR. STE H, TAMPA, FL 33619
TEL: (813) 995-0300
FAX: (813) 995-0303
WWW.ENERGALDENGINEERING.COM
EEL PROJECT # 210120

\\projects\21020 ROOMS-TO-GO RENOVATION\DRAWINGS\21020 MECHANICAL HVAC DEMO ROOF2.DWG | E:\mwd | Sep 13, 2021 - 8:43am



- KEYNOTE LEGEND**
1. EXISTING ROOF TOP UNIT, CONDENSATE PIPING, ROOF CURB AND ROOF PENETRATION TO REMAIN.
 2. EXISTING ROOF TOP UNIT AND CONDENSATE PIPING TO BE REMOVED AND DISPOSED OF.
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 4. REMOVE AND DISPOSE OF EXISTING ROOF CURB.
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DEMOLITION ROOF PLAN 1
1/8"=1'-0"

EMERALD
ENGINEERING INC.
9942 CURRIE DAVIS DR. STE H, TAMPA, FL 33619
TEL (813) 995-0300
WWW.EMERALDNEP.COM
EEL PROJECT # 210120

FLEISCHMANGARCIA
ARCHITECTURAL PLANNING INTERIOR
344 HYDE PARK AVENUE, SUITE 300
MIAMI, FL 33136
PHONE (313) 331-2880
FAX (313) 331-1994
WWW.FLEISCHMANGARCIA.COM

18757 TAMPA, FLORIDA
187 FOUNTAIN AVENUE, SUITE 100
TAMPA, FLORIDA 33605
PHONE (727) 752-8837
FAX (727) 752-2887

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FL REG. NO. PE81436
S/S Date

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08-25-21

REVISIONS		
NO	DATE	NOTES
1	08-13-21	ADDENDUM #2

SHEET NAME

DEMOLITION ROOF PLAN

SHEET NUMBER
MD1.20D