PIPE UP THROUGH PLAN PIPE DOWN THROUGH PLAN	
DIRECTION OF FLOW IN PIPE → PIPE UP → PIPE GUIDE ↓ FLEXIBLE PIPE CONNECTOR ↓ BALL VALVE ↓ BUTTERFLY VALVE ↓ CHECK VALVE, HORIZONTAL SWING ↓ CHECK VALVE, HORIZONTAL SWING ↓ CHECK VALVE, HORIZONTAL SWING ↓ THREE WAY MODULATING CONTROL VALVE ↓ THREE WAY CONTROL VALVE ↓ GLOBE VALVE ↓ TWO WAY CONTROL VALVE ↓ GLOBE VALVE ↓ GAS COCK, GAS STOP ↓ PRESSURE REDUCING VALVE ↓ PRESSURE RED	SUPPLY DIFFUSERRETURN AIR GRILLEEXHAUST AIR GRILLEIGID DUCTWORK (WIDTH/DEPTH)ELBOW WITH TURNING VANESMANUAL SPLITTER DAMPERMANUAL SPLITTER DAMPERMANUAL VOLUME DAMPERMANUAL VOLUME DAMPERCONDENSATE DRAIN LINEFIRE DAMPERBACKDRAFT DAMPERMOTORIZED VOLUME DAMPERSMOKE DAMPERTHERMOSTATHUMIDISTATDUCT MOUNTED SMOKE DETECTORCARBON DIOXIDE SENSOR (MOUNT @60" A.F.F.)BIPOLAR IONIZATION UNITDETAIL OR RISER DESIGNATIONSHEET WHERE DETAIL OR RISER APPEAR

2 I 3

1

1/4/2024 10:13:38 AM Autodesk Docs://2023820 Sanibel FS 172/SFRD FS 172_MEP_R23.rvt

4 I 5 I 6

3

1

4

5

1

2

1

1

6

1

7

1

1

8

1

7 8 9 1₀

ABBI	ABBREVIATIONS	MECHANICAL GENERAL NOTES	COMMISSIONING SCOPE
YMBOL DESCRIPTION C AR CONDITIONING CS ALITOMATIC CONTROL SYSTEM CONTROL WITT ARCONDITIONING UNIT PERSONAL ADDITIONING UNIT PERSONAL PROXIMITED FLOOR HUL AR HANDLING UNIT PERSONAL ADDITIONING PACCESS PANEL PROX APPROXIMITELY ROCH ARCHITECTURAL UTO AUTOMATIC UN AUXILIARY PERSONAL ONLY TO UNIT OUTOM OF UNIT TUTH BRITISH THEMAL UNIT PERFORMAL ONLY TO UNIT OUTOM OF UNIT TUTH BRITISH THEMAL UNIT PERFORMAL ONLY TO UNIT OUTOM OF UNIT TUTH BRITISH THEMAL UNIT PERFORMAL ONLY TO CONCION ADDITISH PERFORMAL ONLY TO UNIT OUTOM OF UNIT TUTH BRITISH THEMAL UNIT FER THEMAL UNIT TO UNIT OUTOM OF UNIT TUTH BRITISH THEMAL UNIT TO UNIT OUTOM OF UNIT TO UNIT OUTOM OF UNIT TO UNIT OUTOM OF UNIT TO CONCIONATE RETURN HICHLED WATES RUPPLY HICHLED WATES RUPPLY CONTENT COLOUR FEET UNIT OUR FEET UNIT OU	LES POUNDS LESH POUNDS PER HOUR LCP LOCAL CONTROL PANEL LDB LEAVING OVER BULB TEMPERATURE LIN FT LINEAR FEET LWT LEAVING WATER TEMPERATURE MAX MAXIMUM MB MIXING BOX MBH THOUSANDS OF BTUH MC MC MECHANICAL CONTRACTOR MIN MINIMUM NC NORMALLY CLOSED NIC NOTINEATCT NO. NORMALLY CLOSED NIC NOTISDE AIR OD OUTSIDE AIR OD OUTSIDE DIAMETER OV OUTLET VELOCITY P PRESSURE PC PLUMBING CONTRACTOR PD RESSURE PC PLUMBING CONTRACTOR PSIA PSI ABSOLUTE PSIG PSI GAUGE PRESS RR REFRIGERANT HOT GAS DISCHARGE RA REFURN AIR FAN RD ROOF DRAIN RCD REOURED RM ROOM RPM REVOLUTIONS PER NINUTE R ₃ REFRIGERANT HOT GAS DISCHARGE R ₄ REFRIGERANT HOT GAS DISCHARGE R ₄ REFRIGERANT HOT GAS DISCHARGE R ₄ REFRIGERANT HOT GAS DISCHARGE R ₅ REFRIGERANT HOT GAS DISCHARGE R ₄ REFRIGERANT LIQUID RM ROOM RPM REVOLUTIONS PER MINUTE R ₅ SECONDARY CLYOOL CHILLED WATER RETURN SGCHR TE TERMINAL BOX TO TRENCHD PREANURE VAV VARABABLE AR VOLIME UNIT	<text><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></text>	 INCERENCE TO COMBINION SERVICES MULL BE PROVIDED BY THE OW RESPONSE FOR COORDINAN MAD SUPPORT EQUIRED FOR LL COMMISSIONAR DEPOCIDURES AND ACTIVITIES. ALL BEFORCES OR AND ACTIVITIES. ALL DEFINICIS OR AND ACTIVITIES. PRORE TO ASSIGN THE FIRM, HACE HAR ARE SEQUENCE OF THE MICHAETICAL. PRORE TO ASSIGN THE FIRM, HACE HAR ARE ARE ARE AND ACTIVITIES THE COMMISSION WITH THE COMMISSION AND COMMISSION AND COMMISSION OF THE COMMISSION AND COMMISSION AND COMMISSION AND DEPOSITIES COMMISSIONAL SERVICES REQUERENTS: COMMISSIONAL DEPOSITIES COMMISSIONAL SERVICES AND ACCORDANCE WITH HE MICHAETICAL. PRORE TO FASSIGN THE MICHAETICAL ASSISTEME DESIGN PROFESSIONAL DE PROVIDE DOUGLE A RESCINA NA COMMISSIONAL COMMENTION AND ALL SERVICES. THE ASSISTEME COMMISSIONAL DEPOSITIES COMMISSIONAL COMMENTION AND ALL SERVICES. THE ASSISTEME COMMISSIONAL DEPOSITIES TO THE COMMISSION COMMENTION AND ALL SERVICES. THE ASSISTEME COMMISSIONAL DEPOSITIES TO THE ADDRESSION COMMENTION AND ALL SERVICES. THE ASSISTEME COMMISSIONAL DEPOSITIES TO THE ASSISTEME COMMISSION COMMENTION AND ALL SERVICES. THE ASSISTEME THE ADDRESSION AND COMMENTION COMMENTION AND ASSISTEME TO THE ADDRESSION AND EXAMINED AND ADDRESSION AND COMMENTION COMMENTION AND ADDRESSION AND COMMENTION AND ADDRESSION AND EXAMINED AND ADDRESSION AND COMMENTION AND ADDRESSION AND EXAMINED AND ADDRESSION AND COMMENTION ADDRESSION AND ADDRESSION AND COMMENTION ADDRESSION ADDRESSION AND ADDRESSION ADDRESSION ADDRESSION ADDRESSION AND ADDRESSION AD

12

11

1

13

15

1

14

10

1

9

14

I

15

16

l 17

l 18

l 13

12

I 11



SANIBEL FIRE & RESCUE DISTRICT 2351 PALM RIDGE ROAD, SANIBEL, FLORIDA 33957

SANIBEL FIRE AND RESCUE STATION 172

PROJECT LOCATION:

17

1

18

1

16

1

5171 SANIBEL-CAPTIVA ROAD SANIBEL, FLORIDA 33957



9510 Corkscrew Palms Circle, Unit 1 Estero, FL 33928 voice (239) 208-4846

SS Lic. No. AA-C000937 www.schenkelshultz.com Copyright © 2024 WWW.SCHENKELSHULTZ.COM/COPYRIGHT SEE FOR POLICY AND INFORMATION



9728 Commerce Center Court, Ft. Myers, FL 33908 | p. 239-454-5117 www.ociassociates.com

This item has been electronically signed and sealed by Jason Smith, PE on 01/05/2024 using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

JASON L. SMITH, P.E. 600 S. ORLANDO AVE. MAITLAND, FL 32751 FL. REG. NO.: PE57743

MARK

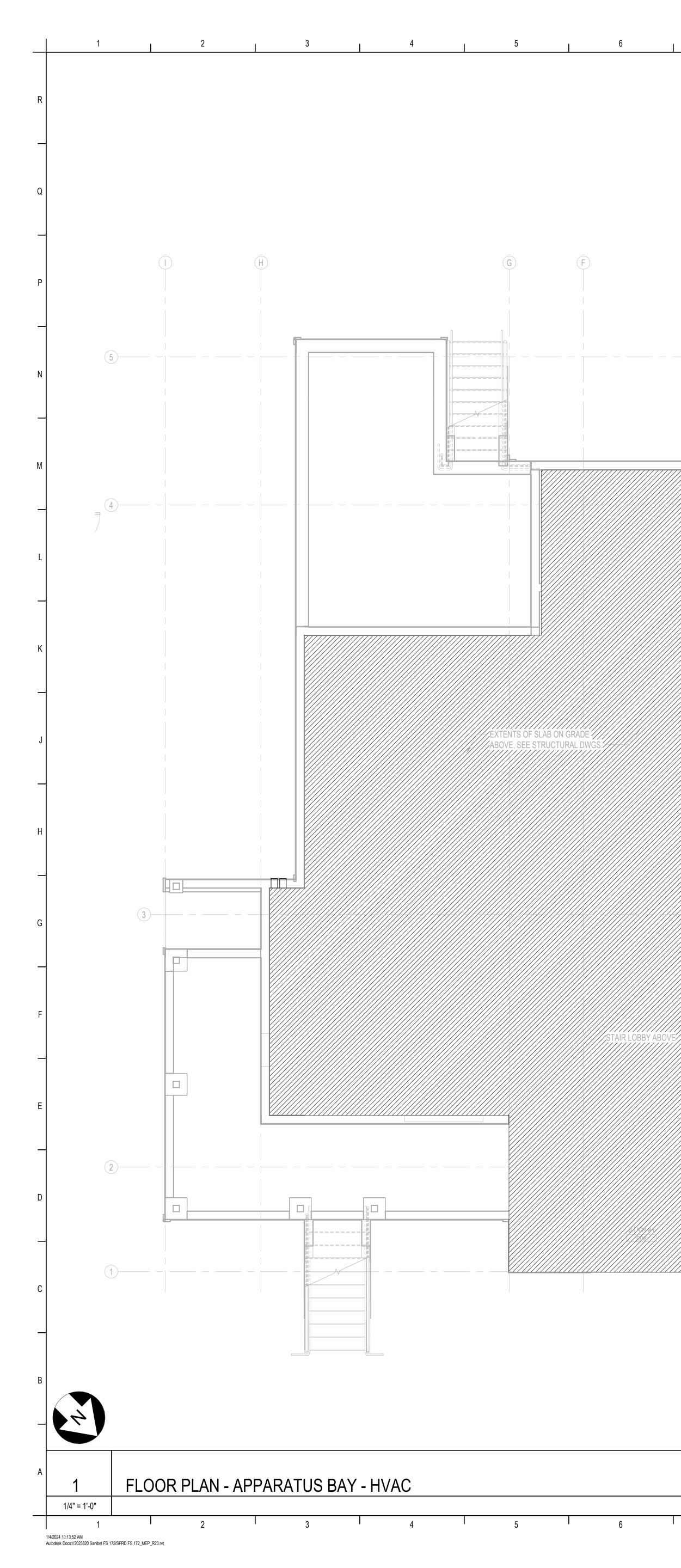
REVISIONS DESCRIPTION

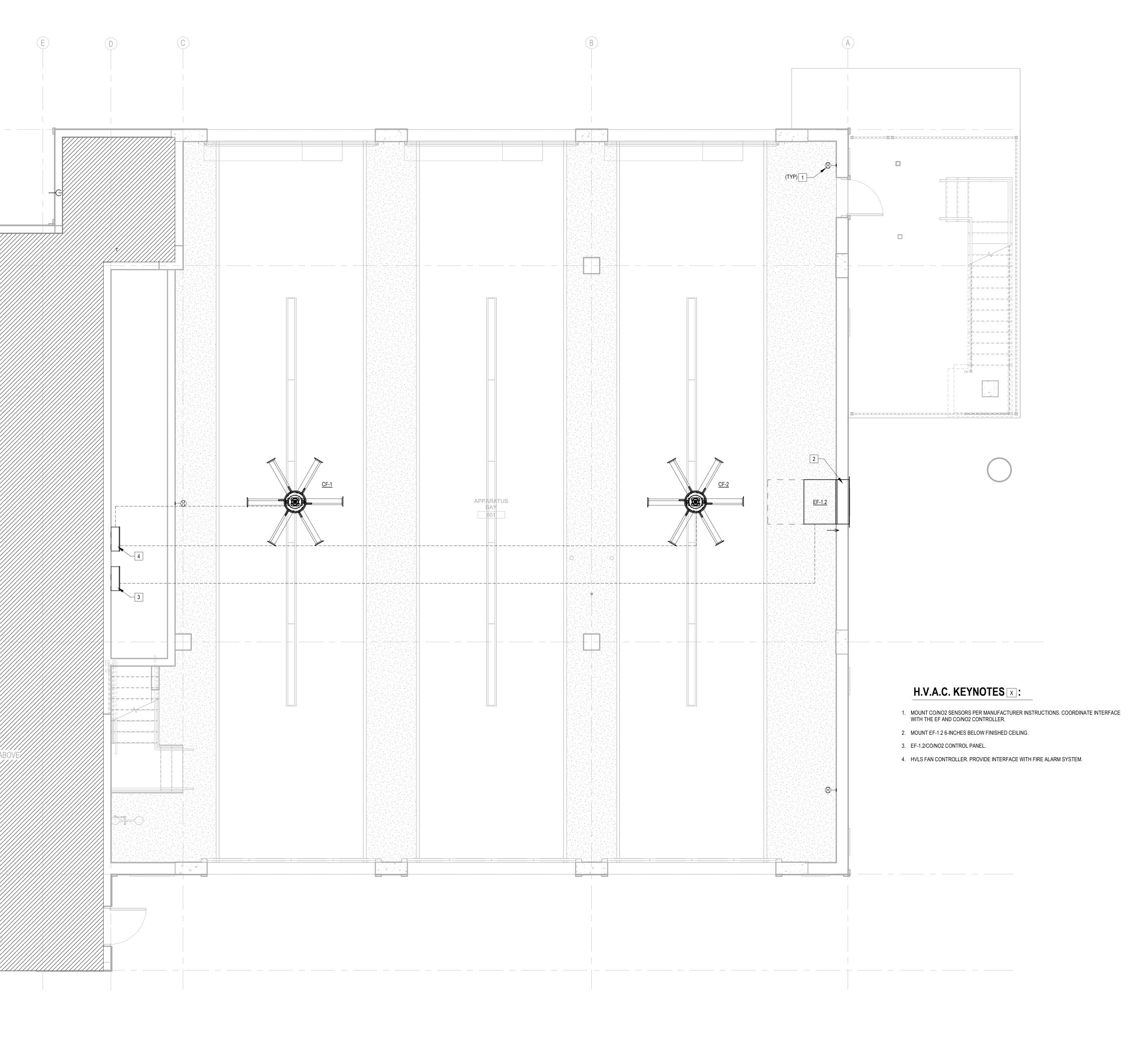
DATE

COMM. NO.: 2023820 ISSUE DATE: 01.05.2024 DRAWN BY: MBS

GENERAL NOTES, ABBREVIATIONS AND SYMBOL LEGEND - HVAC







l 13

l 14

15

I

16

l 17

I 18

12

11

7 8 9 10 11 12

9

10

1

8

7

1

1



SANIBEL FIRE & RESCUE DISTRICT 2351 PALM RIDGE ROAD, SANIBEL, FLORIDA 33957

SANIBEL FIRE AND RESCUE STATION 172

PROJECT LOCATION:

5171 SANIBEL-CAPTIVA ROAD SANIBEL, FLORIDA 33957



9510 Corkscrew Palms Circle, Unit 1 Estero, FL 33928 voice (239) 208-4846

SS Lic. No. AA-C000937 www.schenkelshultz.com Copyright © 2024 WWW.SCHENKELSHULTZ.COM/COPYRIGHT SEE FOR POLICY AND INFORMATION



www.ociassociates.com

JASON L. SMITH, P.E. 600 S. ORLANDO AVE. MAITLAND, FL 32751 FL. REG. NO.: PE57743

MARK

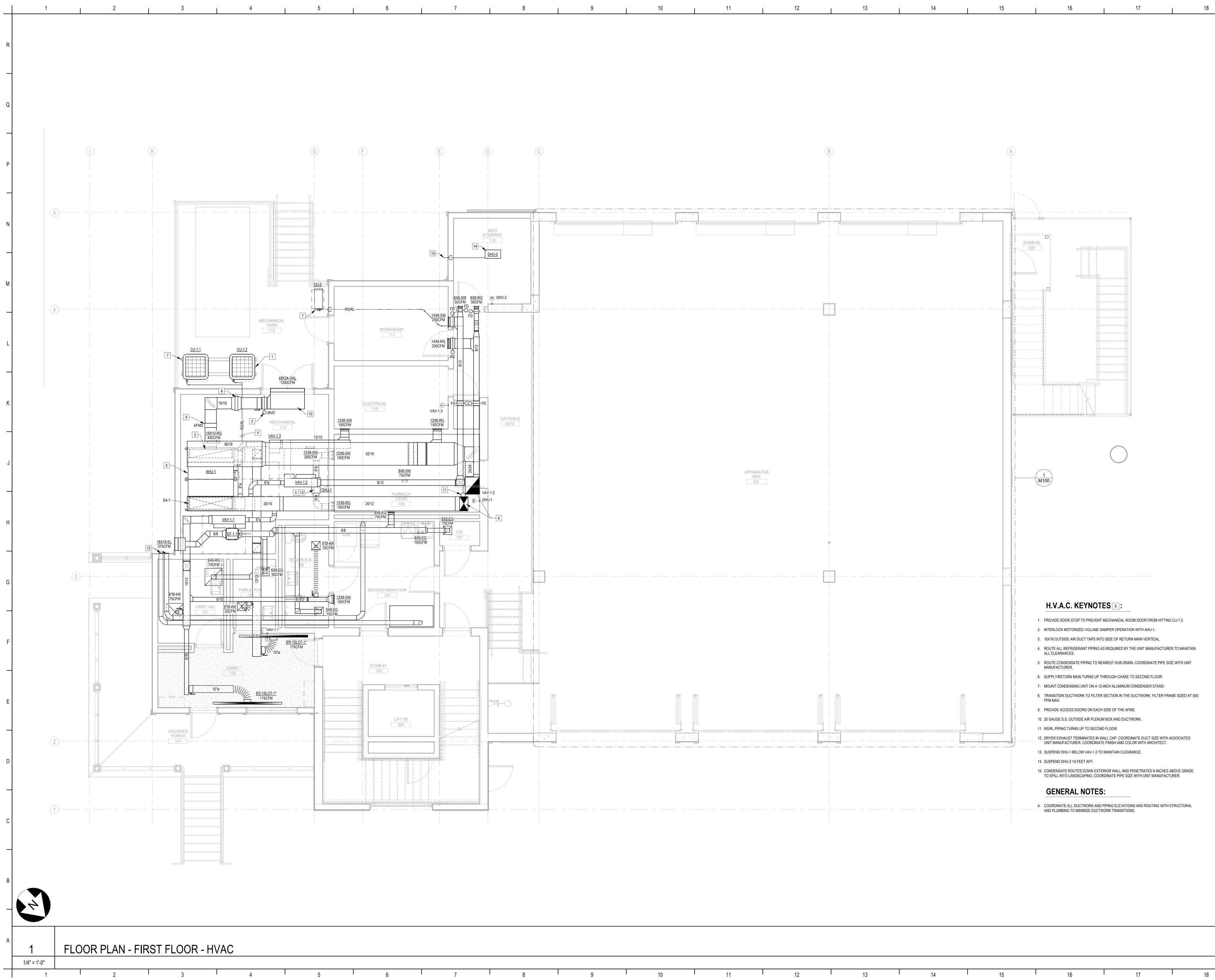
REVISIONS DESCRIPTION

DATE

COMM. NO.: 2023820 ISSUE DATE: 01.05.2024 DRAWN BY: MBS

FLOOR PLAN - APARATUS BAY - HVAC





1/4/2024 10:14:07 AM Autodesk Docs://2023820 Sanibel FS 172/SFRD FS 172_MEP_R23.rvt



SANIBEL FIRE & RESCUE DISTRICT 2351 PALM RIDGE ROAD, SANIBEL, FLORIDA 33957

SANIBEL FIRE AND RESCUE STATION 172

PROJECT LOCATION:

5171 SANIBEL-CAPTIVA ROAD SANIBEL, FLORIDA 33957



9510 Corkscrew Palms Circle, Unit 1 Estero, FL 33928 voice (239) 208-4846

SS Lic. No. AA-C000937 www.schenkelshultz.com Copyright © 2024 WWW.SCHENKELSHULTZ.COM/COPYRIGHT SEE FOR POLICY AND INFORMATION



www.ociassociates.com

JASON L. SMITH, P.E. 600 S. ORLANDO AVE. MAITLAND, FL 32751 FL. REG. NO.: PE57743

MARK

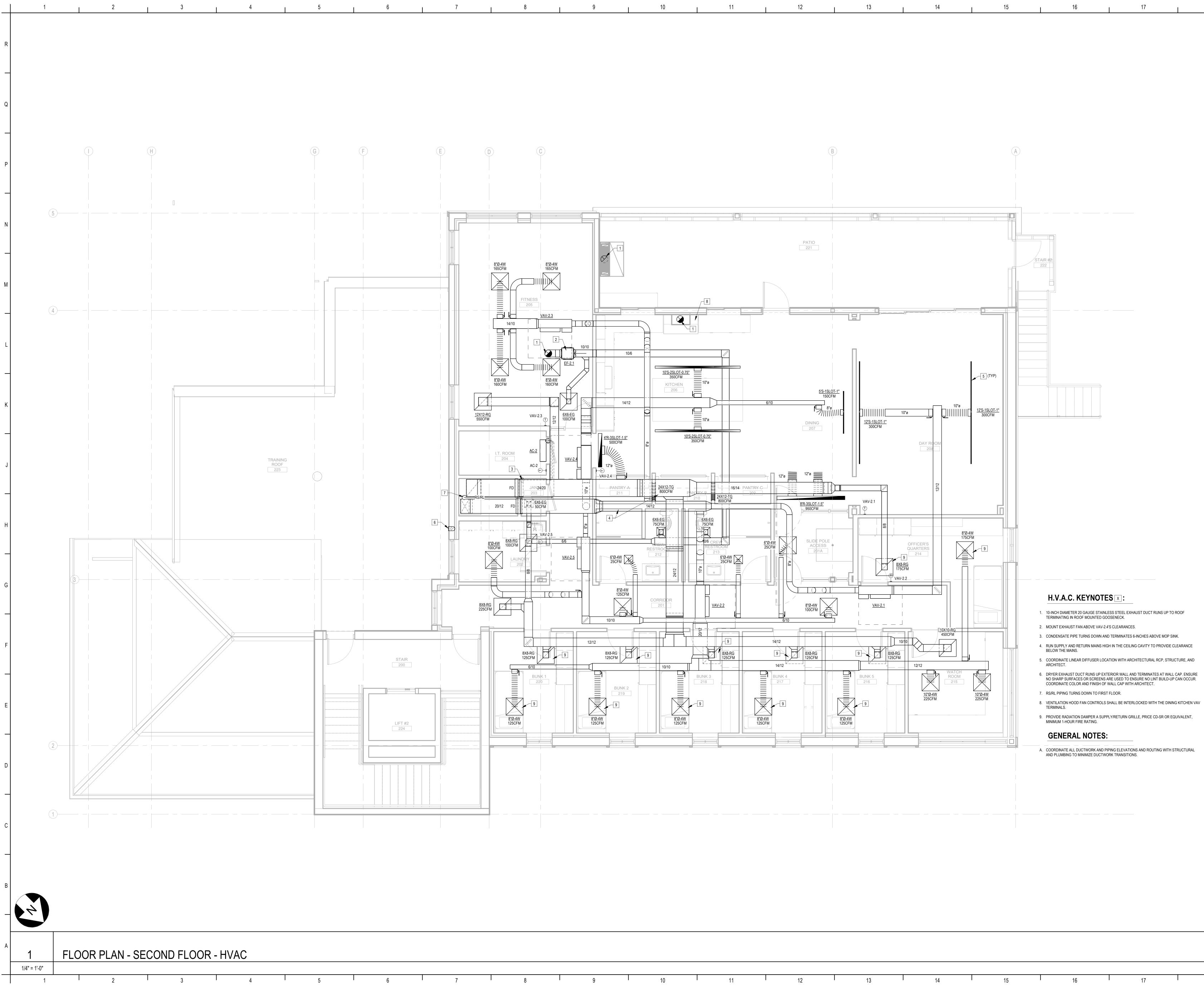
REVISIONS DESCRIPTION

DATE

COMM. NO.: 2023820 ISSUE DATE: 01.05.2024 DRAWN BY: MBS

FLOOR PLAN - FIRST FLOOR - HVAC





1/4/2024 10:14:23 AM Autodesk Docs://2023820 Sanibel FS 172/SFRD FS 172_MEP_R23.rvt

l 12



SANIBEL FIRE & RESCUE DISTRICT 2351 PALM RIDGE ROAD, SANIBEL, FLORIDA 33957

SANIBEL FIRE AND RESCUE STATION 172

PROJECT LOCATION:

5171 SANIBEL-CAPTIVA ROAD SANIBEL, FLORIDA 33957



9510 Corkscrew Palms Circle, Unit 1 Estero, FL 33928 voice (239) 208-4846

SS Lic. No. AA-C000937 www.schenkelshultz.com Copyright © 2024 WWW.SCHENKELSHULTZ.COM/COPYRIGHT SEE FOR POLICY AND INFORMATION



www.ociassociates.com

JASON L. SMITH, P.E. 600 S. ORLANDO AVE. MAITLAND, FL 32751 FL. REG. NO.: PE57743

MARK

REVISIONS DESCRIPTION

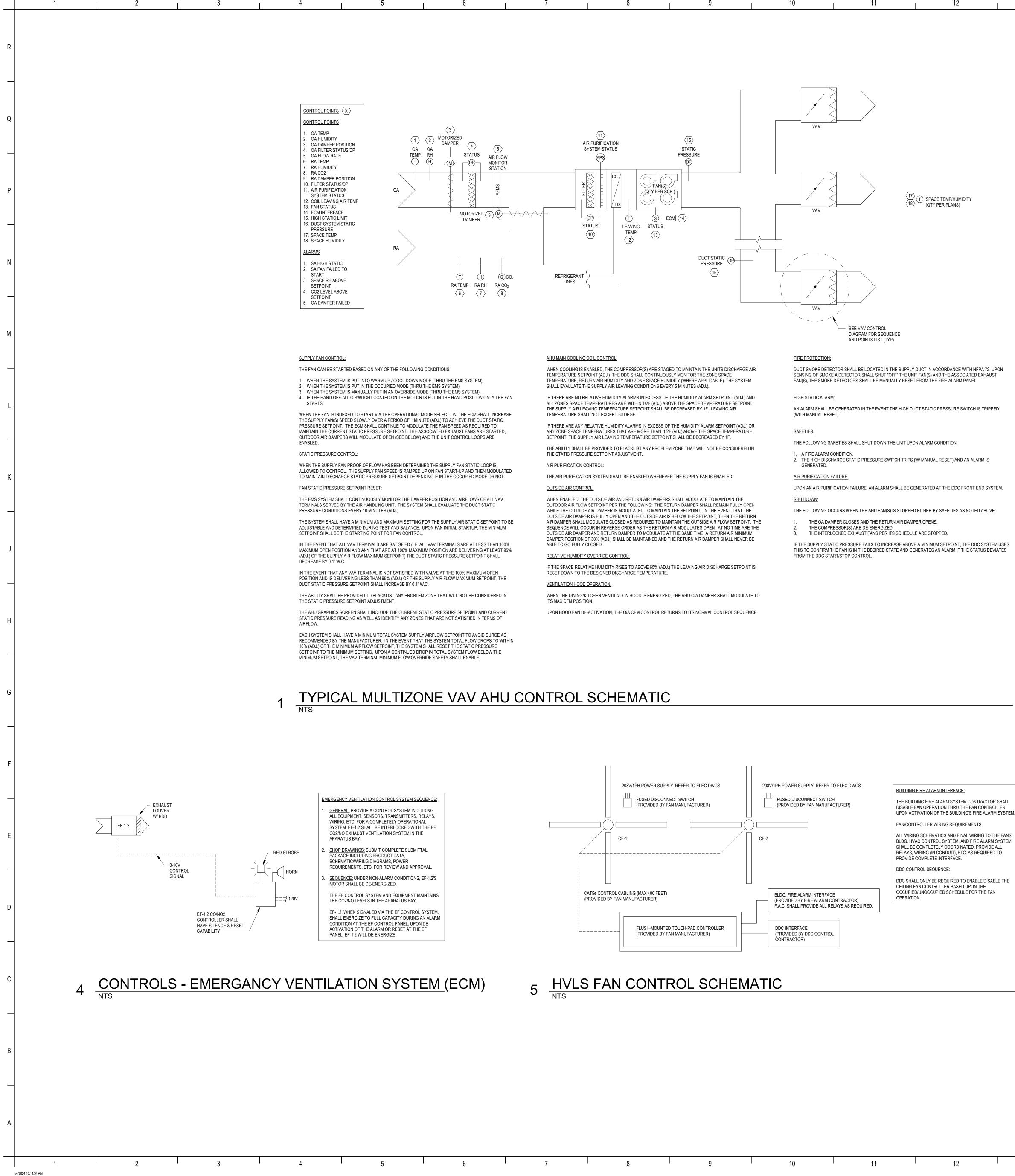
DATE

COMM. NO.: 2023820 ISSUE DATE: 01.05.2024 DRAWN BY: MBS

I 18

FLOOR PLAN - SECOND FLOOR - HVAC



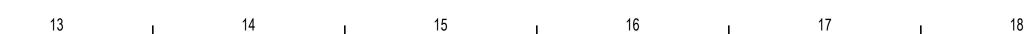


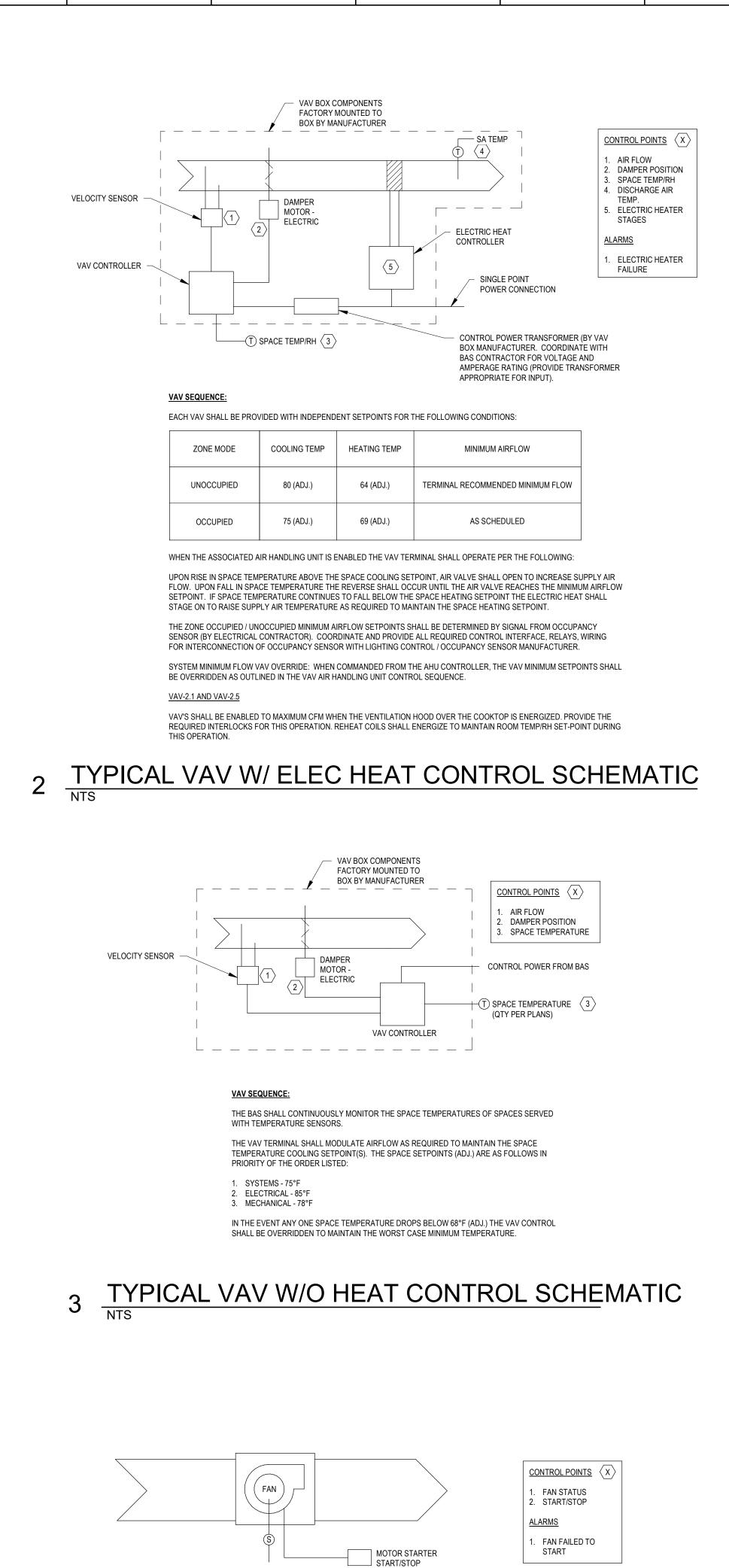


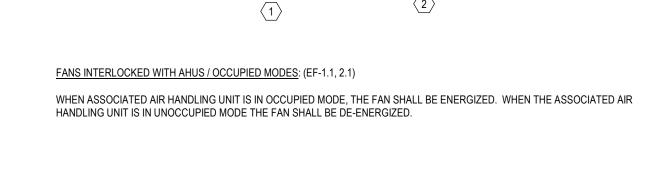
Autodesk Docs://2023820 Sanibel FS 172/SFRD FS 172_MEP_R23.rvt

13

14







STATUS

6 TYPICAL EXHAUST FAN CONTROL SCHEMATIC 0 NTS

17



SANIBEL FIRE & RESCUE DISTRICT 2351 PALM RIDGE ROAD, SANIBEL, FLORIDA 33957

SANIBEL FIRE AND RESCUE STATION 172

PROJECT LOCATION:

5171 SANIBEL-CAPTIVA ROAD SANIBEL, FLORIDA 33957



9510 Corkscrew Palms Circle, Unit 1 Estero, FL 33928 voice (239) 208-4846

SS Lic. No. AA-C000937 www.schenkelshultz.com Copyright © 2024 WWW.SCHENKELSHULTZ.COM/COPYRIGHT SEE FOR POLICY AND INFORMATION



www.ociassociates.com

JASON L. SMITH, P.E. 600 S. ORLANDO AVE. MAITLAND, FL 32751 FL. REG. NO.: PE57743

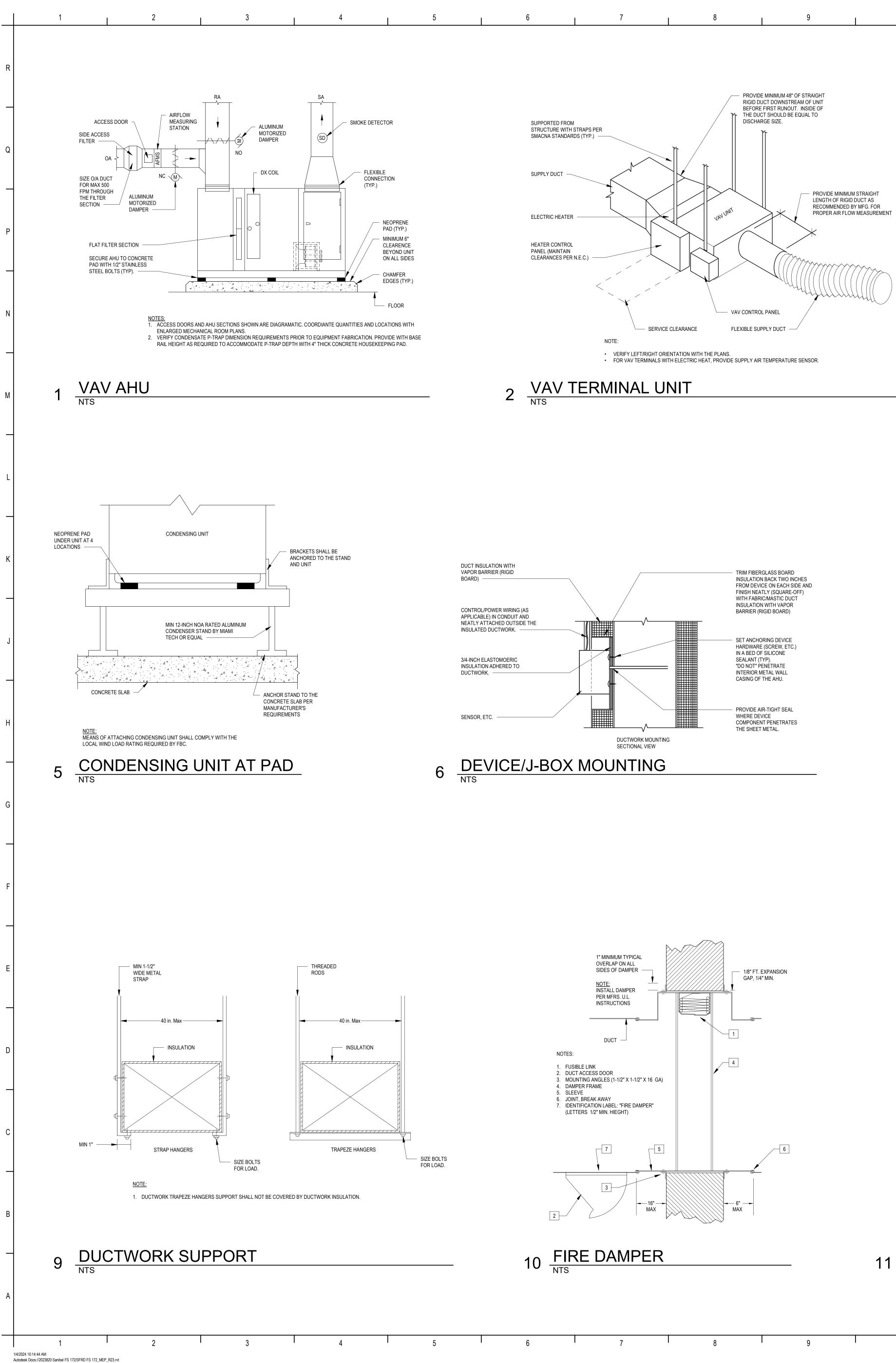
REVISIONS DESCRIPTION

DATE

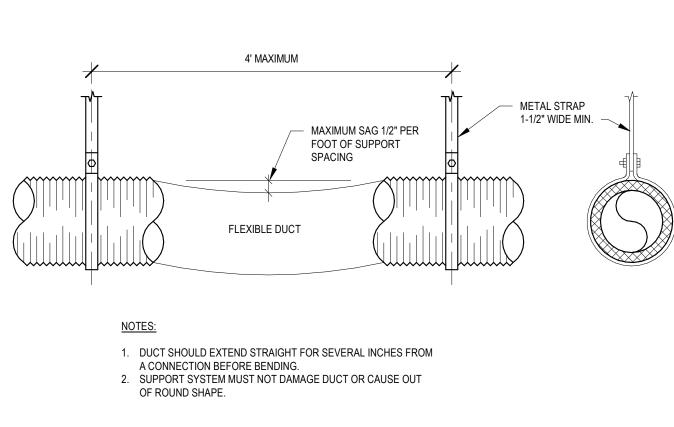
COMM. NO.: 2023820 ISSUE DATE: 01.05.2024 DRAWN BY: MBS

CONTROLS - HVAC





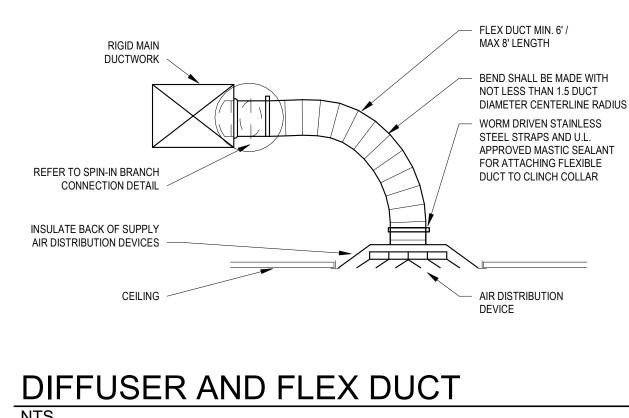
11 FLEX DUCT SUPPORT

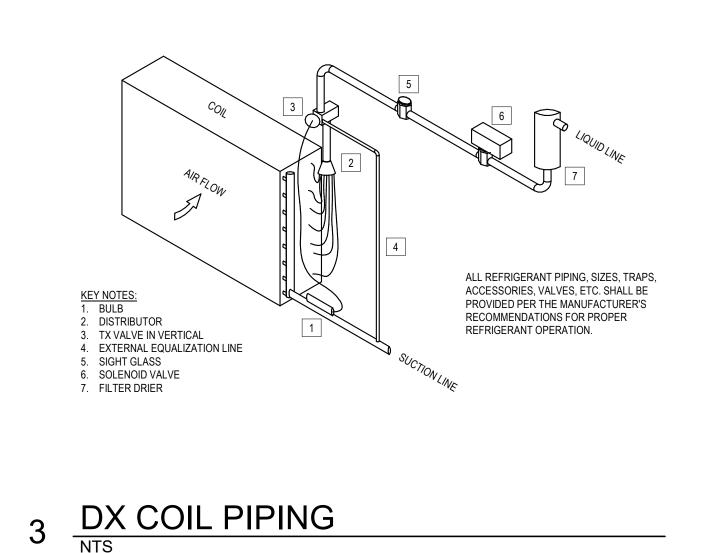


12

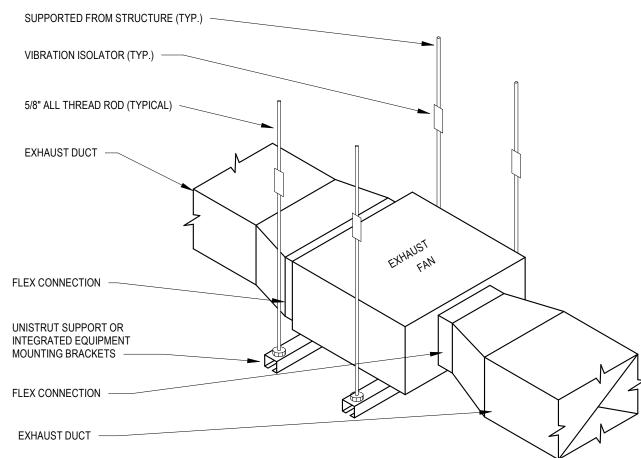
13





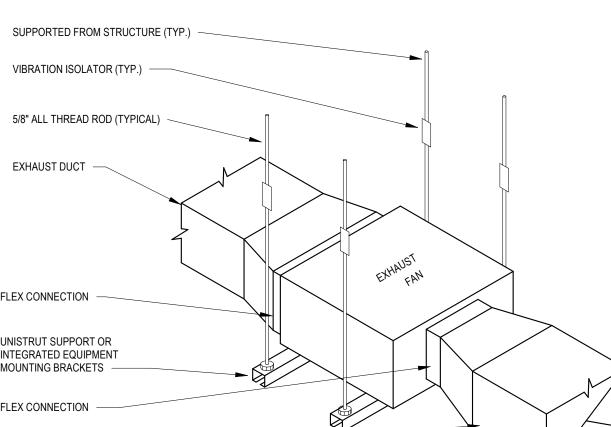


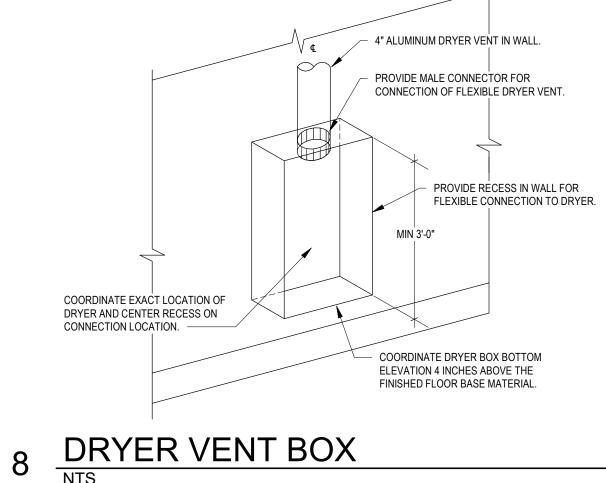
12 IN-LINE EXHAUST FAN

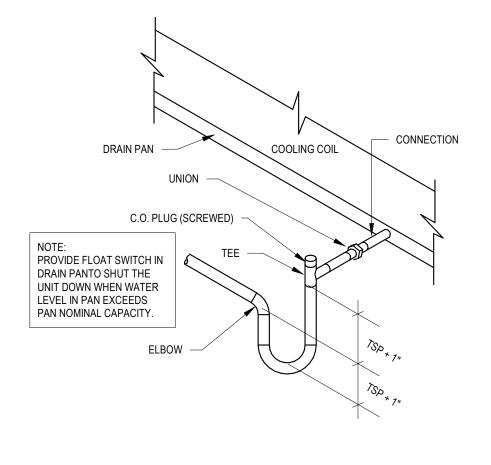


17

18











SANIBEL FIRE & RESCUE DISTRICT 2351 PALM RIDGE ROAD, SANIBEL, FLORIDA 33957

SANIBEL FIRE AND RESCUE STATION 172

PROJECT LOCATION:

5171 SANIBEL-CAPTIVA ROAD SANIBEL, FLORIDA 33957



9510 Corkscrew Palms Circle, Unit 1 Estero, FL 33928 voice (239) 208-4846

SS Lic. No. AA-C000937 www.schenkelshultz.com Copyright © 2024 WWW.SCHENKELSHULTZ.COM/COPYRIGHT SEE FOR POLICY AND INFORMATION



www.ociassociates.com

JASON L. SMITH, P.E. 600 S. ORLANDO AVE. MAITLAND, FL 32751 FL. REG. NO.: PE57743

MARK

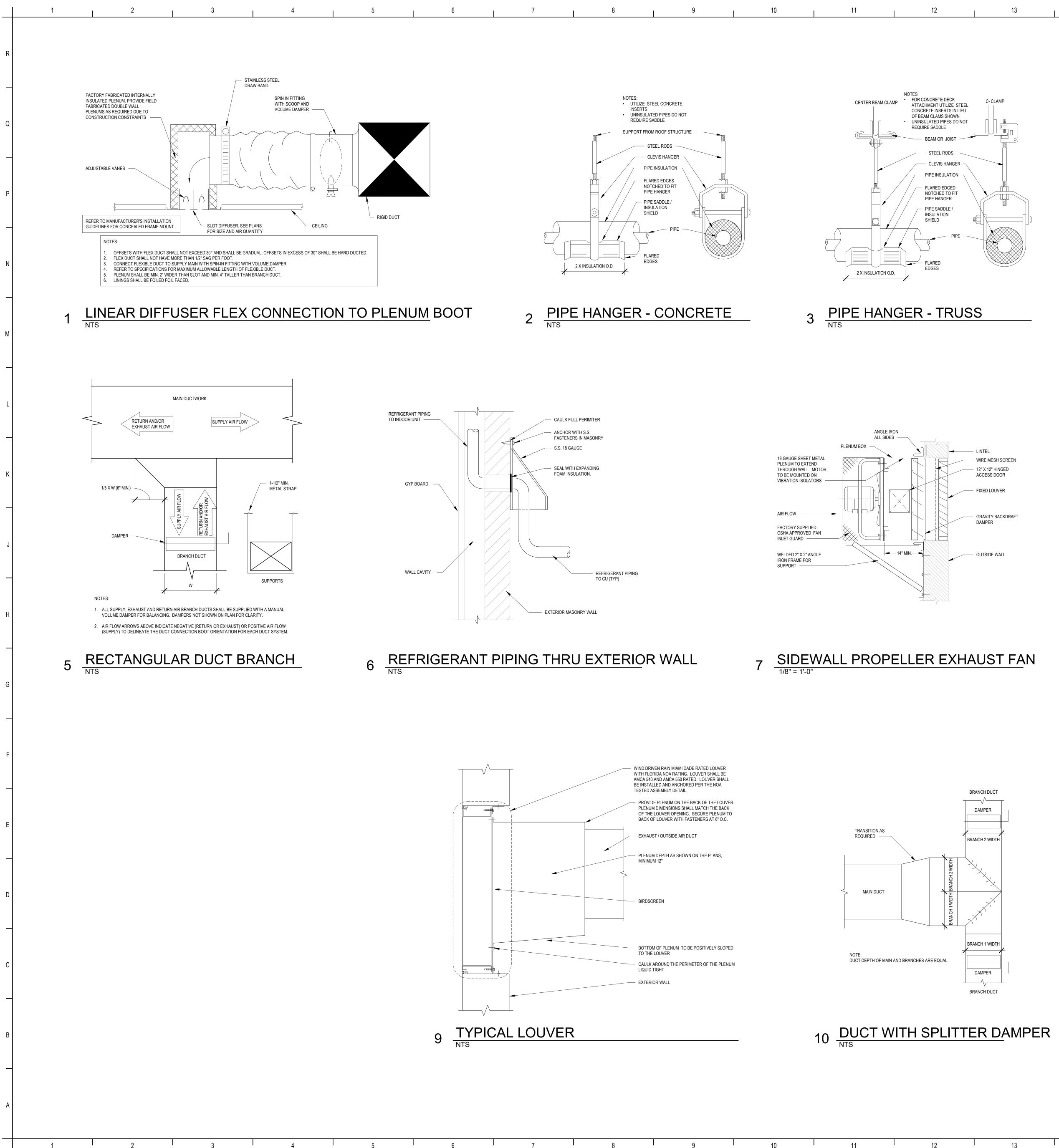
REVISIONS DESCRIPTION

DATE

COMM. NO.: 2023820 ISSUE DATE: 01.05.2024 DRAWN BY: MBS

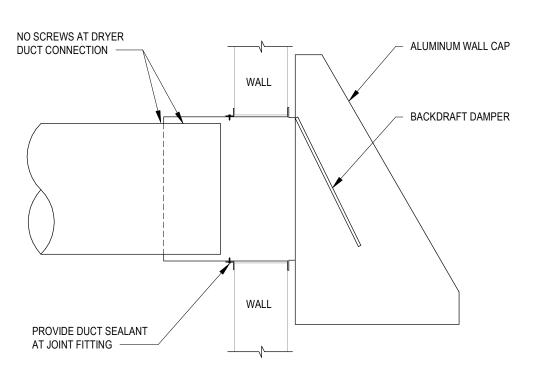
DETAILS - HVAC





1/4/2024 10:14:54 AM Autodesk Docs://2023820 Sanibel FS 172/SFRD FS 172_MEP_R23.rvt



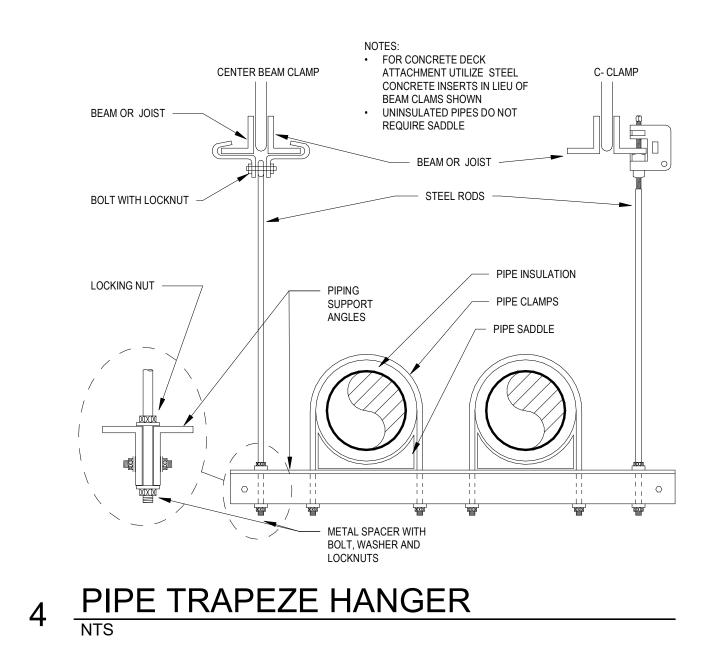


17

18

8 TYPICAL SPIN-IN BRANCH CONNECTION

- FLEXIBLE DUCT TO AIR OUTLET DUCT DIA 16 GA. GALVANIZED BLADE, 1/4" -- WORM DRIVEN LESS THAN DUCT DIAMETER STAINLESS STEEL STRAPS AND U.L. 3/8" SQUARE ROD APPROVED MASTIC SEALANT FOR ATTACHING FLEXIBLE END BEARING DUCT TO CLINCH COLLAR LOCKING TYPE QUADRANT OPERATOR / MAIN DUCT -INDICATOR WITH 2" STAND-OFF SPIN-IN FITTING AIR FLOW





SANIBEL FIRE & RESCUE DISTRICT 2351 PALM RIDGE ROAD, SANIBEL, FLORIDA 33957

SANIBEL FIRE AND RESCUE STATION 172

PROJECT LOCATION:

5171 SANIBEL-CAPTIVA ROAD SANIBEL, FLORIDA 33957



9510 Corkscrew Palms Circle, Unit 1 Estero, FL 33928 voice (239) 208-4846

SS Lic. No. AA-C000937 www.schenkelshultz.com Copyright © 2024 WWW.SCHENKELSHULTZ.COM/COPYRIGHT SEE FOR POLICY AND INFORMATION



www.ociassociates.com

JASON L. SMITH, P.E. 600 S. ORLANDO AVE. MAITLAND, FL 32751 FL. REG. NO.: PE57743

MAR

REVISIONS DESCRIPTION

DATE

COMM. NO.: 2023820 ISSUE DATE: 01.05.2024 DRAWN BY: MBS

DETAILS - HVAC



	1	2	1	3		4	1	5		6	1	7
R												
Q												
_												
Ρ												
N												
_												
М												
L												
к												
J												
H												
G												
F												
_												
E												
D												
С												
_												
В												
_												
A												
	1/4/2024 10:15:08 AM Autodesk Docs://2023820 Sanibel FS 172/SFRD FS 172	2	T	3	1	4	1	5	1	6	T	7

1/4/2024 10:15:08 AM Autodesk Docs://2023820 Sanibel FS 172/SFRD FS 172_MEP_R23.rvt

7	8	9	10	11	12	13	14	I 15	16	17	18
/											

							SPL	IT S	YSTE	M INC	DOOR U	NIT SC	HE	DUL	E		
				FAN DATA						COOLING COIL DATA		ELECTR	RICAL DATA				BASIS OF
MARK	AREA SERVED	SUPPLY AIR (CFM)	(C	or Air FM)	E.S.P. (IN. WG)	QTY.	HP (EACH)	FLA (EACH)	EAT °F (DB/WB)	LAT °F (DB/WB)	CAPACITY - MBTU	VOLTAGE/ PHASE	МСА	МОСР	EER	WEIGHT	MANUFACTURER
		(01)	MAX	MIN	(()	(=,	(==,=)	(==,=,	(TOTAL/SENS.)						
AHU-1	BUILDING	5000	1250	850	2.5	2	3.5	8.8	80.0/67.2	53.5/52.3	226.5/145.1	208/3	19.8	25	11.2	1612	DAIKIN
2. PRC	ORDINATE REFR OVIDE SMOKE DE	ETECTORS IN S	SUPPLY	MAIN OFI	OF THE	UNIT T	O SHUT		T DOWN U		ARM CONDITION	IS.					
3. PRC	OVIDE WITH ALL	REQUIRED AC	CESSOR	IES FOR	SPECIFIC	INSTA	LLATION	۱.									

4. EACH AIR HANDLER AND ASSOCIATED HEAT PUMP/CONDENSING UNIT SHALL BE PROVIDED WITH AN ENGRAVED NAMEPLATE SHOWING SPECIFIC UNIT DESIGNATION.

5. PROVIDE WITH STAINLESS STEEL CONDENSATE DRAIN PAN. PROVIDE WITH FOAM INJECTED DOUBLE WALL INSULATION. (R-13 MIN)
 PROVIDE ECM FAN ARRAY AND ECM BACNET CONTROL PANEL WITH 5 YEAR PARTS AND LABOR WARRANTY.

8. LIGHTING INTERNAL TO EACH AHU SHALL BE FACTORY-WIRED AND READY FOR FIELD CONNECTION BY E.C. 9. ALL UNITS SHALL BE FACTORY PAINTED.

10. PROVIDE COIL WITH FACTORY APPLIED ELECTRO-FIN PROTECTIVE COATING. 11. PROVIDE WITH BI-POLAR IONIZATION SYSTEM SIZED FOR THE GIVEN AIRFLOW, PLASMA AIR SERIES 7000 OR APPROVED EQUIVALENT.

				S	SPLI	ΤS	YSTE	EM A	IR CONI	DENSI	NG	JNIT	SCH	EDUL	E	
MARK UNIT SERVED	COOLING		CONDENSER FANS			CON	IPRESSO	PR(S)	ELE	CTRICA	L	WEIGHT		BASIS OF DESIGN		
MARK	UNIT SERVED	TOTAL CAPACITY (MBTUH)	SENSIBLE CAPACITY (MBTUH)	QTY	FLA	QTY	RLA (EACH)	LRA (EACH)	REFRIGERANT	VOLTS/PH.	MCA	МОСР	(LBS.)	EER	MANUFACTURER	мо
CU-1.1	AHU-1	113.3	72.6	1	7.0	1	32.6	240.0	R-410A	208/3	47.7	80	345	11.2	DAIKIN	DX14X
CU-1.2	AHU-1	113.3	72.6	1	7.0	1	32.6	240.0	R-410A	208/3	47.7	80	345	11.2	DAIKIN	DX14X
NOTES:																

1. COORDINATE REFRIGERANT PIPING LENGTH WITH MANUFACTURER. PROVIDE MANUFACTURER'S ACCESSORIES RECOMMENDED FOR LONG LINE APPLICATIONS WHEN THE EQUIVA UPSIZE THE VAPOR LINE TO MINIMIZE THE COOLING CAPACITY LOSS TO LESS THAN 3%. 2. PROVIDE WITH ALL REQUIRED ACCESSORIES FOR SPECIFIC INSTALLATION.

3. MAINTAIN ALL REQUIRED OPERATIONAL AND MAINTENANCE CLEARANCES PER MANUFACTURER. 4. PROVIDE FACTORY-APPLIED CORROSION COATING FOR CONDENSER COILS.

								VA		r sch	EDULE
MARK	MANUFACTURER	MODEL	INLET	PRIMARY	AIR CFM	HEATING	ΔΡ	AUXIL	LIARY ELECT	RIC HEAT	NOTES
IVIARA	WANUFACTURER	WODEL	SIZE	MAX.	MIN.	CFM	(IN. W.G.)	kW	VOLTS/PH.	STEPS	NOTES
VAV-1.1	DAIKIN	MQTH-506	6	450	160	225	0.50	2.5	208/1	1	1 THRU 7
VAV-1.2	DAIKIN	MQTH-506	6	375	135	190	0.50	2.0	208/1	1	1 THRU 7
VAV-1.3	DAIKIN	MQTHI506	6	450	160		0.50				1 THRU 8
VAV-2.1	DAIKIN	MQTH-508	8	600	210	300	0.50	3.0	208/1	1	1 THRU 7
VAV-2.2	DAIKIN	MQTH-510	10	1250	440	625	0.50	6.0	208/1	1	1 THRU 7
VAV-2.3	DAIKIN	MQTH-508	8	650	230	325	0.50	3.5	208/1	1	1 THRU 7
VAV-2.4	DAIKIN	MQTH-510	10	825	290	415	0.50	4.0	208/1	1	1 THRU 7
VAV-2.5	DAIKIN	MQTH-506	6	400	140	200	0.50	2.0	208/1	1	1 THRU 7
		•									

NOTES: 1. PROVIDE WITH INTEGRAL STEP DOWN TRANSFORMER FOR CONTROL POWER. COORDINATE VOLTAGE WITH ELECTRICAL CONTRACTOR.

PROVIDE WITH OPTIONAL FUSES.
 PROVIDE WITH INTEGRAL DISCONNECT SWITCH.
 PROVIDE WITH NORMALLY OPEN SPRING LOADED DAMPER.

5. VAV BOXES SHALL BE PRESSURE INDEPENDENT WITH DDC CONTROLS. (FACTORY INSTALLED) 6. VAV BOXES SHALL BE PROVIDED WITH 3/4" FIBERGLASS DOUBLE WALL INTERNAL INSULATION WITH A MIN R-VALUE OF R-4.6.
7. MIN 22 GAUGE G-60 GALVANIZED CONSTRUCTION.

8. VAV TERMINAL WITHOUT HEAT SHALL OPERATE VIA 24-VOLT CONTROL VIA THE DDC SYSTEM.

13

I 14

					DUC	CTLE	SS S	PLIT	SYST	EM IN	NDOC	or Uni	T SC	HEDULE			
SIGN		MARK	AREA SERVED	AIR FLOW (CFM)	WATTS		/PH. FAI	N WEIGHT	MANUF	ACTURER	MODE	:L#			NOTES		
MODEL #	NOTES	AC-2	IT ROOM	600	35	208/		1 -1	DA	IKIN	FTK18A	XVJU			1 THRU 6		
AH011GDCM	1 THRU 11	2. COO 3. EAC 4. INDO 5. PRO	VIDE WITH WALL MO RDINATE REFRIGER H DUCTLESS UNIT A DOR UNIT POWEREE VIDE WITH FACTOR VIDE WITH ALL REQ	ANT PIPING ND ASSOCIA BY THE OUT Y INSTALLED	LENGTH TED CO TDOOR (CONDE	I WITH MA NDENSING CONDENSI NSATE PL	NUFACT G UNIT S ING UNIT JMP.	URER. HALL BE PI	ROVIDED						DESIGNATION.		
				1				_	-	EM OL	JTDO	OR UN	IIT SO	CHEDULE			
		MARK							SSOR(S) /PH. RL (EA)	A MCA	MOCP	WEIGHT (LBS)	SEER	MANUFACTURER	MODEL #		NOTES
		CU-2	AC-2	18.0 1	20	·	1.0	1 208	·		20	99	18.5	DAIKIN	RK18AXVJU	J	1 THRU 3
A	NOTES 1 THRU 4 1 THRU 4							EXHA	UST	FAN	SCHE	DULE					
								FAN			MO			BASIS OF	DESIGN		
LENGTH EXC	CEEDS 75 FT.	MARK			N TYPE			SP (in-wg)	RPM 3	SONES	HP	VOLTS/PH.	_	ANUFACTURER	MODE	L	NOTE
		EF-1.1 FF-1.2				-	375 000	0.50	1600 575	7.7	0.1	208/1		GREENHECK	SQ-90-\ AFR-36-03-09	-	
		EF-1.2 EF-2.1 <u>NOTES:</u>	APPARATUS B/ FITNESS/RR	AY PRO) Deller NLINE	90	375 000 300	0.50 0.20 0.50	1600 575 1525	7.7 13.9 7.1	0.1 3.0 0.1	208/1 208/1 208/1		GREENHECK GREENHECK GREENHECK	SQ-90-\ AER-36-03-09 SQ-90-\	25-VGD	1 THRU 1, 2, 3, 1 THRU
		EF-1.2 EF-2.1 <u>NOTES:</u> 1. PRO 2. PRO 3. DIRE 4. INTE	APPARATUS BA	AFT DAMPER SWITCH MOL TICIENCY MO TION WITH A	DPELLER NLINE INTED A TOR WIT HU-1'S C LOCATE	T THE UNI T THE UNI TH SOLID OPERATION DIN THE	IT. STATE S N. APPARA	0.20 0.50 PEED CON TUS BAY.	575 1525 TROL.	13.9 7.1	3.0 0.1	208/1		GREENHECK	AER-36-03-09	25-VGD	1, 2, 3
		EF-1.2 EF-2.1 <u>NOTES:</u> 1. PRO 2. PRO 3. DIRE 4. INTE 5. INTE	APPARATUS B/ FITNESS/RR VIDE WITH BACKDR VIDE DISCONNECT ECT DRIVE HIGH EFF RLOCK FAN OPERA RLOCK WITH CO/NC	AFT DAMPER SWITCH MOL TICIENCY MO TION WITH A	PELLER NLINE INTED A TOR WIT HU-1'S C LOCATE	T THE UNI THE UNI TH SOLID PPERATION DPERATION THE A	000 IT. STATE S N. APPARA	0.20 0.50 PEED CON TUS BAY.	575 1525 TROL.	13.9 7.1	3.0 0.1	208/1 208/1 FAN S		GREENHECK GREENHECK	AER-36-03-09	25-VGD /G	1, 2, 3
		EF-1.2 EF-2.1 <u>NOTES:</u> 1. PRO 2. PRO 3. DIRE 4. INTE	APPARATUS B/ FITNESS/RR VIDE WITH BACKDR VIDE DISCONNECT ECT DRIVE HIGH EFF RLOCK FAN OPERA RLOCK WITH CO/NC	AFT DAMPER SWITCH MOU ICIENCY MO TION WITH A 22 SENSORS	PELLER NLINE INTED A TOR WIT HU-1'S C LOCATE	T THE UNI T THE UNI TH SOLID OPERATION DIN THE	000 IT. STATE S N. APPARA	0.20 0.50 PEED CON TUS BAY. CIAL ELEC	575 1525 TROL. HVLS CTRICAL	13.9 7.1 S CEIL EAKER (A)	3.0 0.1	208/1 208/1 FAN S	CHEI BASIS OF CTURER	GREENHECK GREENHECK DULE DESIGN MODEL	AER-36-03-09 SQ-90-\	25-VGD /G	1, 2, 3,
		EF-1.2 EF-2.1 <u>NOTES:</u> 1. PRO 2. PRO 3. DIRE 4. INTE 5. INTE	APPARATUS B/ FITNESS/RR VIDE WITH BACKDR VIDE DISCONNECT ECT DRIVE HIGH EFF RLOCK FAN OPERA RLOCK WITH CO/NC	AFT DAMPER SWITCH MOU TICIENCY MO TION WITH A 2 SENSORS	DPELLER NLINE JNTED A TOR WIT HU-1'S C LOCATE	T THE UNI THE UNI TH SOLID DPERATION DIN THE COMI	IT. STATE S N. APPARA	0.20 0.50 PEED CON TUS BAY. CIAL ELEC VOLTS 5 115	575 1525 TROL. TROL.	13.9 7.1 6 CEIL	3.0 0.1	208/1 208/1 FAN S	CHEI BASIS OF CTURER ROAIR	GREENHECK GREENHECK DULE DESIGN	AER-36-03-09 SQ-90-\	25-VGD /G	1, 2, 3
		EF-1.2 EF-2.1 NOTES: 1. PRO 2. PRO 3. DIRE 4. INTE 5.	APPARATUS B/ FITNESS/RR VIDE WITH BACKDR VIDE DISCONNECT ECT DRIVE HIGH EFF RLOCK FAN OPERA RLOCK WITH CO/NC	AFT DAMPER SWITCH MOU TICIENCY MO TION WITH A 22 SENSORS CEILING CEILING CEILING OUCHSCREE OPS AND BE NTERFACE V	PELLER NLINE INTED A TOR WIT HU-1'S C LOCATE EN CONT AM MOU VITH BUI SWITCH	T THE UNI TH SOLID DPERATION DPERATION DIAMETER (FT) 8 8 FROLLER, JNTING HA ILDING FIR	IT. STATE S N. APPARA MER R I 0.75 0.75 REPEAT ARDWAR RE ALARI FROM MA	0.20 0.50 PEED CON TUS BAY. CIAL ELEC VOLTS 5 115 5 115 ER, AND BA E FOR CON M SYSTEM. NUFACTUE	575 1525 TROL. TROL. TROL. TROL.	13.9 7.1 S CEIL EAKER (A) 20 20 TERFACE. S TO STRUC	3.0 0.1 WEIGHT (LBS.) 140 140 SHALL BE CTURE. DLORS.	208/1 208/1 FAN S MANUFA MACF MACF POWERED E	CHEE BASIS OF CTURER ROAIR ROAIR BY FAN DF	GREENHECK GREENHECK DULE DESIGN MODEL AIRLITE AIRLITE	AER-36-03-09 SQ-90-\	25-VGD /G NOTES 1 THRU 5	1, 2, 3
		EF-1.2 EF-2.1 NOTES: 1. PRO 2. PRO 3. DIRE 4. INTE 5.	APPARATUS B/ FITNESS/RR VIDE WITH BACKDR VIDE DISCONNECT ECT DRIVE HIGH EFF RLOCK FAN OPERA RLOCK WITH CO/NC ASSEMBLY BAY ASSEMBLY BAY ASSEMBLY BAY VIDE ONE DIGITAL T VIDE ONE DIGITAL T VIDE MOUNTING DR CONTROLS SHALL I	AFT DAMPER SWITCH MOU TICIENCY MO TION WITH A 22 SENSORS CEILING CEILING CEILING OUCHSCREE OPS AND BE NTERFACE V	PELLER NLINE INTED A TOR WIT HU-1'S C LOCATE EN CONT AM MOU VITH BUI SWITCH	T THE UNI TH SOLID DPERATION DPERATION DIAMETER (FT) 8 8 FROLLER, JNTING HA ILDING FIR	IT. STATE S N. APPARA MER R I 0.75 0.75 REPEAT ARDWAR RE ALARI FROM MA	0.20 0.50 PEED CON TUS BAY. CIAL ELEC VOLTS 5 115 5 115 ER, AND BA E FOR CON M SYSTEM. NUFACTUE	575 1525 TROL. TROL. TROL. TROL.	13.9 7.1 S CEIL EAKER (A) 20 20 TERFACE. S TO STRUC	3.0 0.1 WEIGHT (LBS.) 140 140 SHALL BE CTURE. DLORS.	208/1 208/1 FAN S MANUFA MACF	CHEE BASIS OF CTURER ROAIR ROAIR BY FAN DF	GREENHECK GREENHECK DULE DESIGN MODEL AIRLITE AIRLITE	AER-36-03-09 SQ-90-\	25-VGD /G NOTES 1 THRU 5	1, 2, 3
		EF-1.2 EF-2.1 NOTES: 1. PRO 2. PRO 3. DIRE 4. INTE 5.	APPARATUS B/ FITNESS/RR VIDE WITH BACKDR VIDE DISCONNECT ECT DRIVE HIGH EFF RLOCK FAN OPERA RLOCK WITH CO/NC ASSEMBLY BAY ASSEMBLY BAY ASSEMBLY BAY VIDE ONE DIGITAL T VIDE ONE DIGITAL T VIDE MOUNTING DR CONTROLS SHALL I	AFT DAMPER SWITCH MOU ICIENCY MO TION WITH A 22 SENSORS TYPE CEILING CEILING CEILING OUCHSCREE OPS AND BE NTERFACE V ISCONNECT CTED BY ARC	PELLER NLINE INTED A TOR WIT HU-1'S C LOCATE EN CONT AM MOU VITH BUI SWITCH	T THE UNI TH SOLID DPERATION DPERATION DIAMETER (FT) 8 8 FROLLER, JNTING HA ILDING FIR	IT. STATE S N. APPARA MER R I 0.75 0.75 REPEAT ARDWAR RE ALARI FROM MA	0.20 0.50 PEED CON TUS BAY. CIAL ELEC VOLTS 5 115 5 115 5 115 ER, AND B. FOR CON M SYSTEM. NUFACTUR JND A	575 1525 TROL. TROL. TROL. TRICAL	13.9 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1	3.0 0.1 WEIGHT (LBS.) 140 140 SHALL BE CTURE. DLORS.	208/1 208/1 FAN S MANUFA MACF MACF POWERED E CHED ND Hz	CHEE BASIS OF CTURER ROAIR ROAIR BY FAN DF	GREENHECK GREENHECK DULE DESIGN MODEL AIRLITE AIRLITE	AER-36-03-09 SQ-90-\	25-VGD /G 1 THRU 5 1 THRU 5 1 THRU 5	1, 2, 3

NOTES: 1. ANY CHANGE FROM BASIS OF DESIGN MUST MEET INSERTION LOSS VALUES AND DIMENSIONS INDICATED.

DEHUMIDIFICATION SYSTEM SCHEDULE

			PERFORMANC	E DATA		ELECT	RICAL	DATA		BASIS OF D			
MARK	AREA SERVED	AIRFLOW (CFM)	WATER REMOVAL (PINTS PER DAY)		ACTOR 5/KHW)	WATTS @ 80F/60% RH	FLA	VOLTS/PH.	WEIGHT (LBS.)	MANUFACTURER	MODEL	NOTES	
			(FINTS FER DAT)	80F/60% RH	70F/60% RH	00F/00 % KH							
DHU-1	TURNOUT GEAR	150	70	5.0	4.8	580	5.1	115/1	55	SANTA FE	ULTRA70	1 THRU 5	
DHU-2	MED STORAGE	150	70	5.0	4.8	580	5.1	115/1	55	SANTA FE	ULTRA70	1 THRU 5	

 WATER REMOVAL PERFORMANCE BASED ON 70 DEGREE F @ 60% RH.
 PROVIDE STANDARD CORD RATED FOR 115V WITH 3-PIN CORD. . PROVIDE MERV-13 FILTER.

4. PROVIDE UNIT WITH BUILT-IN ON-OFF SWITCH AND HUMITY LEVEL SELECTOR. 5. DDC CONTROLS SHALL PROVIDE HUMIDISTAT IN THE ROOM SERVED TO MONITOR ROOM R.H. LEVELS. SIGNAL ALARM OVER 65% R.H.

AIR DISTRIBUTION DEVICE SCHEDULE

MARK / LEGEND	ТҮРЕ	MANUFACTURER	MODEL	NOTES
NECK SIZE — <u>8"Ø-4W</u> — THROW PATTERN AIR FLOW — 200CFM	CEILING MOUNTED PLAQUE SUPPLY DIFFUSER	PRICE	ASPD	1, 4, 5, 6
LINEAR LENGTH	CEILING OR SIDEWALL MOUNTED LINEAR SLOT SUPPLY DIFFUSER	PRICE	SDS	4, 5, 9, 10
LINEAR LENGTH → <u>2'R-2SLOT-1"</u> → #/SIZE OF SLOTS AIR FLOW → 200CFM	CEILING OR SIDEWALL MOUNTED LINEAR SLOT RETURN GRILLE	PRICE	SDS	4, 5, 9, 10
NECK SIZE — <u>12X12-RG</u> AIR FLOW — 200CFM	CEILING OR SIDEWALL MOUNTED RETURN AIR GRILLE	PRICE	600	1 THRU 5
NECK SIZE — <u>12X8-EG</u> AIR FLOW — 200CFM	CEILING OR SIDEWALL EXHAUST AIR GRILLE	PRICE	600	1 THRU 5
NECK SIZE — <u>24X24-OAL</u> AIR FLOW — 500CFM	WALL MOUNTED OUTSIDE AIR INTAKE LOUVER	GREENHECK	EHH-601D	5, 7, 8
NECK SIZE - 24X24-EL AIR FLOW - 500CFM	WALL MOUNTED EXHAUST DISCHARGE LOUVER	GREENHECK	EHH-601D	5, 7, 8
NOTES: 1. PROVIDE 24X24 OR 24X12 LAY-IN MODULE WHERE LOG 2. NECK SIZE IS 22X22 UNLESS NOTED OTHERWISE ON F 3. PROVIDE SQUARE TO ROUND NECK TRANSITION WHE 4. COORDINATE BORDER TYPES WITH ARCHITECTURAL 5. COORDINATE FINISH WITH ARCHITECT. 6. COORDINATE THROW PATTERN WITH FLOOR PLANS.	LOOR PLANS. RE APPLICABLE.			

7. LOUVER SHALL HAVE FLORIDA PRODUCT APPROVAL / NOA AND BE INSTALLED PER THE MANUFACTURER'S CRITERIA.

15

17

I

I 18

16

8. PRIME AND PAINT TO MATCH ADJACENT SURFACES. 9. LAYIN LINEAR SLOT DIFFUSER. PROVIDE WITH FACTORY INSULATED SUPPLY PLENUM BEHIND SLOT DIFFUSER FOR BRANCH DUCT TO TAP INTO. 10. PROVIDE WITH OPPOSED BLADE VOLUME DAMPER.



SANIBEL FIRE & RESCUE DISTRICT 2351 PALM RIDGE ROAD, SANIBEL, FLORIDA 33957

SANIBEL FIRE AND RESCUE STATION 172

PROJECT LOCATION:

5171 SANIBEL-CAPTIVA ROAD SANIBEL, FLORIDA 33957



9510 Corkscrew Palms Circle, Unit 1 Estero, FL 33928 voice (239) 208-4846

SS Lic. No. AA-C000937 www.schenkelshultz.com Copyright © 2024 WWW.SCHENKELSHULTZ.COM/COPYRIGHT SEE FOR POLICY AND INFORMATION



www.ociassociates.com

JASON L. SMITH, P.E. 600 S. ORLANDO AVE. MAITLAND, FL 32751 FL. REG. NO.: PE57743

MARK

REVISIONS DESCRIPTION

DATE

COMM. NO.: 2023820 ISSUE DATE: 01.05.2024 DRAWN BY: MBS

SCHEDULES - HVAC

