V.A.V. BOX SCHEDULE

NUMBER	24-VAV-1.1	24-VAV-1.2	24-VAV-1.3	24-VAV-1.4	24-VAV-1.5	24-VAV-1.6	24-VAV-1.7	24-VAV-1.8	24-VAV-1.9	24-VAV-1.10	24-VAV-1.11	24-VAV-1.12	24-VAV-1.13	24-VAV-1.14	24-VAV-1.15	24-VAV-2.1	24-VAV-2.2	24-VAV-2.3	24-VAV-2.4	24-VAV-2.5	24-VAV-2.6	24-VAV-2.7	24-VAV-2.8	24-VAV-2.9	24-VAV-2.10	24-VAV-2.11	24-VAV-2.12
TYPE	SINGLE DUCT	SINGLE DUCT	SINGLE DUCT	SINGLE DUCT	SINGLE DUCT	SINGLE DUCT	SINGLE DUCT	SINGLE DUCT	SINGLE DUCT	SINGLE DUCT	SINGLE DUCT	SINGLE DUCT	SINGLE DUCT	SINGLE DUCT	SINGLE DUCT	SINGLE DUCT	SINGLE DUCT	SINGLE DUCT	SINGLE DUCT	SINGLE DUCT	SINGLE DUCT	SINGLE DUCT	SINGLE DUCT	SINGLE DUCT	SINGLE DUCT	SINGLE DUCT	SINGLE DUCT
INLET DIA. (IN.)	16	16	7	6	9	14	9	7	7	9	9	9	8	12	14	14	8	8	14	7	7	9	9	9	7	7	9
CFM MINIMUM	470	460	80	70	150	380	190	100	90	190	170	220	190	390	540	430	150	140	420	100	110	200	200	140	90	80	150
DESIGN CFM	1550	1530	255	235	500	1240	610	320	300	610	540	710	620	1280	1800	1425	480	440	1370	335	370	660	640	455	290	255	480
ENT. S.P. (IN. WC.)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	1.5	1.5	1.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
AIR PRES. DP. (IN. WC.)	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SOUND N.C. LEVEL*	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
H COIL TYPE	HOT WATER	HOT WATER	NO COIL	HOT WATER	NO COIL	HOT WATER	HOT WATER	HOT WATER	HOT WATER	HOT WATER	HOT WATER	HOT WATER	HOT WATER	HOT WATER	HOT WATER	HOT WATER	HOT WATER	NO COIL	HOT WATER	HOT WATER	HOT WATER	HOT WATER	HOT WATER	NO COIL	NO COIL	HOT WATER	HOT WATER
E CAPACITY (MBH)	35.0	30.0	–	5.0	–	30.0	15.0	5.0	5.0	15.0	15.0	15.0	15.0	30.0	30.0	30.0	10.0	–	25.0	10.0	10.0	15.0	15.0	–	–	10.0	10.0
A EWT/LWT (°F)	160/140	160/140	–	160/140	–	160/140	160/140	160/140	160/140	160/140	160/140	160/140	160/140	160/140	160/140	160/140	160/140	–	160/140	160/140	160/140	160/140	160/140	–	–	160/140	160/140
T GAL. PER MINUTE	2.5	1.5	–	0.5	–	2.0	1.0	0.5	0.5	1.0	1.0	1.0	1.0	1.5	1.5	1.5	0.5	–	1.5	0.5	0.5	1.0	1.0	–	–	0.5	0.5
G COIL PIPING SIZE (IN.)	3/4	3/4	–	1/2	–	3/4	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3/4	3/4	3/4	1/2	–	3/4	1/2	1/2	1/2	1/2	–	–	1/2	1/2
HEATING CFM	930	920	–	140	–	750	370	200	50	370	330	430	380	770	1080	855	290	–	825	200	225	400	385	–	–	155	290
ENT. AIR TEMP. (°F)	60	60	–	60	–	60	60	60	60	60	60	60	60	60	60	60	60	–	60	60	60	60	60	–	–	60	60
C W.P.D. (IN. WC.)	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
O A.P.D. (IN. WC.)	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
I NO. OF ROWS/FPI	1/	1/	–	1/	–	1/	1/	1/	1/	1/	1/	1/	1/	1/	1/	1/	1/	–	1/	1/	1/	1/	1/	–	–	1/	1/
L MANUFACTURER	TITUS	TITUS	–	TITUS	–	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	–	TITUS	TITUS	TITUS	TITUS	TITUS	–	–	TITUS	TITUS
SERVICE	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	–	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN
ACCESSORIES	SEE NOTES	SEE NOTES	SEE NOTES	SEE NOTES	SEE NOTES	SEE NOTES	SEE NOTES	SEE NOTES	SEE NOTES	SEE NOTES	SEE NOTES	SEE NOTES	SEE NOTES	SEE NOTES	SEE NOTES	SEE NOTES	SEE NOTES	–	SEE NOTES	SEE NOTES	SEE NOTES	SEE NOTES	SEE NOTES	SEE NOTES	SEE NOTES	SEE NOTES	SEE NOTES
OPER. WT. (LBS.)	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
MANUFACTURER	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	–	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS
MODEL	DESV-16	DESV-16	DESV-07	DESV-06	DESV-09	DESV-14	DESV-09	DESV-07	DESV-07	DESV-09	DESV-09	DESV-09	DESV-08	DESV-12	DESV-14	DESV-14	DESV-08	DESV-08	DESV-14	DESV-07	DESV-07	DESV-09	DESV-09	DESV-09	DESV-07	DESV-07	DESV-09

NOTES:

1. DISCHARGE Nc LEVELS BASED ON ENT. S.P. LISTED.
2. MAINTAIN 20–40°(F) WTD. THE GPM LISTED IS MINIMUM.
3. PROVIDE DIGITAL CONTROLS.
4. MIN. 22 GA. CASING LINED W/1.5 PCF INTERNAL ACOUSTIC INSULATION.
5. PROVIDE SOUND ATTENUATING SECTION FOR VAV–1.3, 1.6, 1.7, 1.10 & 2.6.
6. EQUAL KRUEGER OR ENVIRO–TEC.

V.A.V. BOX SCHEDULE

NUMBER	24-VAV-2.13	24-VAV-2.14	24-VAV-2.15	24-VAV-2.16	24-VAV-2.17	24-VAV-2.18	24-VAV-2.19	24-VAV-2.20	24-VAV-2.21	24-VAV-2.22	24-VAV-2.23	24-VAV-3.1	24-VAV-3.2	24-VAV-3.3	24-VAV-3.4	24-VAV-3.5	24-VAV-3.6	24-VAV-3.7	24-VAV-3.8	24-VAV-3.9	24-VAV-3.10	24-VAV-3.11	24-VAV-3.12	24-VAV-3.13	24-VAV-3.14	24-VAV-3.15
TYPE	SINGLE DUCT	SINGLE DUCT	SINGLE DUCT	SINGLE DUCT	SINGLE DUCT	SINGLE DUCT	SINGLE DUCT	SINGLE DUCT	SINGLE DUCT	SINGLE DUCT	SINGLE DUCT	SINGLE DUCT	SINGLE DUCT	SINGLE DUCT	SINGLE DUCT	SINGLE DUCT	SINGLE DUCT	SINGLE DUCT	SINGLE DUCT	SINGLE DUCT	SINGLE DUCT	SINGLE DUCT	SINGLE DUCT	SINGLE DUCT	SINGLE DUCT	SINGLE DUCT
INLET DIA. (IN.)	14	9	9	14	9	7	12	9	14	14	7	9	9	9	9	12	7	9	7	6	6	9	9	7	7	7	6
CFM MINIMUM	440	220	170	310	230	190	240	220	380	340	100	140	230	150	220	310	120	220	110	70	70	80	210	140	120	100	
DESIGN CFM	1460	710	550	1020	750	620	790	725	1260	1135	330	450	740	485	715	1035	400	730	360	215	225	240	680	460	400	200	
ENT. S.P. (IN. WC.)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
AIR PRES. DP. (IN. WC.)	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
SOUND N.C. LEVEL*	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	
H COIL TYPE	HOT WATER	NO COIL	NO COIL	HOT WATER	NO COIL	NO COIL	HOT WATER	HOT WATER	NO COIL	HOT WATER	NO COIL	HOT WATER	HOT WATER	HOT WATER	NO COIL	NO COIL	HOT WATER	HOT WATER	HOT WATER	HOT WATER	NO COIL	NO COIL	HOT WATER	HOT WATER	HOT WATER	HOT WATER	
E CAPACITY (MBH)	25.0	–	–	25.0	–	–	20.0	25.0	–	25.0	–	15.0	15.0	15.0	–	–	10.0	15.0	10.0	10.0	–	–	20.0	20.0	10.0	10.0	
A EWT/LWT (°F)	160/140	–	–	160/140	–	–	160/140	160/140	–	160/140	–	160/140	160/140	160/140	–	–	160/140	160/140	160/140	160/140	–	–	160/140	160/140	160/140	160/140	
T GAL. PER MINUTE	1.5	–	–	1.5	–	–	1.0	1.5	–	1.5	–	1.0	1.0	1.0	–	–	0.5	1.0	0.5	0.5	–	–	1.5	1.5	0.5	0.5	
G COIL PIPING SIZE (IN.)	3/4	–	–	3/4	–	–	1/2	3/4	–	3/4	–	1/2	1/2	1/2	–	–	1/2	1/2	1/2	1/2	–	–	3/4	3/4	1/2	1/2	
HEATING CFM	880	–	–	615	–	–	475	435	–	680	–	270	445	290	–	–	240	440	215	130	–	–	410	280	240	150	
ENT. AIR TEMP. (°F)	60	–	–	60	–	–	60	60	–	60	–	60	60	60	–	–	60	60	60	60	–	–	60	60	60	60	
C W.P.D. (IN. WC.)	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
O A.P.D. (IN. WC.)	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
I NO. OF ROWS/FPI	1/	–	–	1/	–	–	1/	1/	–	1/	–	1/	1/	1/	–	–	1/	1/	1/	1/	–	–	1/	1/	1/–	1/–	
L MANUFACTURER	TITUS	–	–	TITUS	–	–	TITUS	TITUS	–	TITUS	–	TITUS	TITUS	TITUS	–	–	TITUS	TITUS	TITUS	TITUS	–	–	TITUS	TITUS	TITUS	TITUS	
SERVICE	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	
ACCESSORIES	SEE NOTES	SEE NOTES	SEE NOTES	SEE NOTES	SEE NOTES	SEE NOTES	SEE NOTES	SEE NOTES	SEE NOTES	SEE NOTES	SEE NOTES	SEE NOTES	SEE NOTES	SEE NOTES	SEE NOTES	SEE NOTES	SEE NOTES	SEE NOTES	SEE NOTES	SEE NOTES	SEE NOTES	SEE NOTES	SEE NOTES	SEE NOTES	SEE NOTES	SEE NOTES	
OPER. WT. (LBS.)	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
MANUFACTURER	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	
MODEL	DESV-14	DESV-09	DESV-09	DESV-14	DESV-09	DESV-07	DESV-12	DESV-09	DESV-14	DESV-14	DESV-07	DESV-09	DESV-09	DESV-09	DESV-09	DESV-12	DESV-07	DESV-09	DESV-07	DESV-06	DESV-09	DESV-09	DESV-09	DESV-07	DESV-07	DESV-06	

NOTES:

1. DISCHARGE Nc LEVELS BASED ON ENT. S.P. LISTED.
2. MAINTAIN 20–40°(F) WTD. THE GPM LISTED IS MINIMUM.
3. PROVIDE DIGITAL CONTROLS.
4. MIN. 22 GA. CASING LINED W/1.5 PCF INTERNAL ACOUSTIC INSULATION.
5. PROVIDE SOUND ATTENUATING SECTION FOR VAV–2.14, 2.16, 2.17, 2.18 & 3.5.
6. EQUAL KRUEGER OR ENVIRO–TEC.

1 MECHANICAL SCHEDULES
SCALE: NTS

Revisions:	Date

CONSULTANTS:

REGISTERED PROFESSIONAL ENGINEER GARBEN W. LENGYEL NO. 33380 MECHANICAL STATE OF CALIFORNIA

LP Consulting Engineers, Inc.
895 W. Ashlan Ave, Suite 101 Clovis, CA 93612
p 559-348-2130 - f 559-348-2131
www.lpengineers.com
Job #: 10-1686

LICENSED ARCHITECT KAREN M. GRAVES No. C-24697 REN. 07-31-15 STATE OF CALIFORNIA

ARCHITECT/ENGINEERS:

HMC Architects
1827 E. Fir Avenue, Studio 103 / Fresno, CA 93720
T 559 322 2444 / www.hmcarchitects.com

Drawing Title: MECHANICAL SCHEDULES

Approved: Project Director

Project Title: BUILDING 24 SEISMIC CORRECTION AND ADDITION

Location: VAMC FRESNO, CA

Date: March 12, 2013 | Checked: K.K. | Drawn: D.N.

Project Number: 570-215

Building Number: 24

Drawing Number: MH601
Dwg. 143 of 180

Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08–6231