



James W. Moler, PE
Mechanical
MO# E-22110

REV	DESCRIPTION	DATE

AVCRAD PHASE 3A ADDITION
1107th THEATER AVIATION SUSTAINMENT MAINTENANCE GROUP

NATIONAL GUARD BUREAU
NGB PROJECT NO. 290109

MISSOURI ARMY NATIONAL GUARD
GREENE COUNTY
SPRINGFIELD, MISSOURI
CONTRACT NO. T1808-01

Scales:

Project No.: T1808-01

Drawing Title:
MECHANICAL SCHEDULES

Date: 29 JUNE 2018
Designed: JC
Drawn: KP
Checked: TN

Drawing No.:
M-602
257 of 322

VAV SCHEDULE

MARK	AHU SERVICE	SERVING	BASIS OF DESIGN		SIZE		CFM		STATIC PRESSURE (in-wg)		HEATING COIL DATA											NOTES
			MANUFACTURER	MODEL	INLET (DIA.)	MAX	MIN	INLET	DOWN	HEATING CFM	CAPACITY MBH	EAT °F	LAT °F	APD (in-wg)	GPM	EWT °F	LWT °F	WPD (R-H2O)	ROWS			
VAV-100	AHU-1	B116 CIRCULATION, B168 WOMEN	TITUS	DESV	6"	300	190	1.00	0.25	190	8.9	55	98.0	0.05	4.50	180	175.9	7.31	1	1		
VAV-101	AHU-1	B116 CIRCULATION	TITUS	DESV	6"	300	190	1.00	0.25	190	8.9	55	98.0	0.05	4.50	180	175.9	7.31	1	1		
VAV-102	AHU-1	B116 CIRCULATION	TITUS	DESV	6"	300	190	1.00	0.25	190	8.9	55	98.0	0.05	4.50	180	175.9	7.31	1	1		
VAV-103	AHU-1	B167 TOOL ROOM	TITUS	DESV	8"	640	192	1.00	0.25	220	6.5	55	82.1	0.11	0.30	180	136.4	0.1	1	1		
VAV-104	AHU-1	B168 HOIST REPAIR	TITUS	DESV	8"	720	215	1.00	0.25	215	6.4	55	83.0	0.13	0.30	180	136.8	0.1	1	1		
VAV-105	AHU-1	B162 FLIGHT ACCESS	TITUS	DESV	7"	470	270	1.00	0.25	270	12.9	55	99.1	0.15	0.60	180	136.6	0.11	1	1		
VAV-106	AHU-1	B163 SOLDER TRAINING	TITUS	DESV	8"	650	215	1.00	0.25	300	14.0	55	98.0	0.26	0.70	180	136.7	0.12	2	2		
VAV-107	AHU-1	B165 TEST EQUIP STORAGE	TITUS	DESV	6"	300	175	1.00	0.25	100	4.3	55	95.0	0.05	0.30	180	150.8	0.08	1	1		
VAV-108	AHU-1	B157 ASE / NVG	TITUS	DESV	7"	480	150	1.00	0.25	150	5.8	55	90.3	0.06	0.30	180	141.4	0.1	1	1		
VAV-110	AHU-1	B150 OPEN WORK AREA	TITUS	DESV	12"	1350	580	1.00	0.25	580	27.7	55	99.0	0.27	1.10	180	129.5	0.16	2	2		
VAV-111	AHU-1	B150 OPEN WORK AREA	TITUS	DESV	8"	680	205	1.00	0.25	205	6.4	55	83.5	0.12	0.30	180	137.3	0.1	1	1		
VAV-112	AHU-1	B150 OPEN WORK AREA	TITUS	DESV	8"	680	205	1.00	0.25	205	6.4	55	83.5	0.12	0.30	180	137.3	0.1	1	1		
VAV-113	AHU-1	B150 OPEN WORK AREA	TITUS	DESV	8"	680	205	1.00	0.25	205	6.4	55	83.5	0.12	0.30	180	137.3	0.1	1	1		
VAV-114	AHU-1	B150 OPEN WORK AREA	TITUS	DESV	10"	865	260	1.00	0.25	260	9.4	55	88.5	0.09	0.60	180	148.3	0.07	1	1		
VAV-115	AHU-1	B150 OPEN WORK AREA	TITUS	DESV	9	680	205	1.00	0.25	205	6.4	55	83.5	0.12	0.30	180	137.3	0.1	1	1		
VAV-116	AHU-1	B150 OPEN WORK AREA	TITUS	DESV	9	680	205	1.00	0.25	205	6.4	55	83.5	0.12	0.30	180	137.3	0.1	1	1		
VAV-117	AHU-1	B150 OPEN WORK AREA	TITUS	DESV	8"	630	180	1.00	0.25	180	6.1	55	86.2	0.10	0.30	180	139.0	0.1	1	1		
VAV-118	AHU-1	B156 CLEAN ROOM	TITUS	DESV	6"	360	135	1.00	0.25	135	6.3	55	98.0	0.06	0.70	180	161.4	0.22	1	1		
VAV-120A	AHU-1	B161 VAULT	TITUS	DESV	4"	90	60	1.00	0.25	30	2.4	55	128.8	0.01	0.30	180	163.9	0.07	1	1		
VAV-120B	AHU-1	B160 ARMAMENT / FLIGHT LINE	TITUS	DESV	7"	450	165	1.00	0.25	165	7.9	55	99.0	0.06	0.70	180	157.2	0.3	1	1		
VAV-121	AHU-1	B153 QC IT, B154 UI/D	TITUS	DESV	4"	110	80	1.00	0.25	80	4.0	55	100.7	0.01	0.30	180	153.3	0.07	1	1		
VAV-122	AHU-1	B151 OFFICE, B152 ADMIN AREA	TITUS	DESV	4"	140	85	1.00	0.25	85	4.1	55	99.2	0.01	0.30	180	152.6	0.08	1	1		
VAV-123	AHU-1	B159 CLEANING HEAVY SOLDER	TITUS	DESV	8"	645	280	1.00	0.25	280	13.4	55	99.0	0.25	0.60	180	136.9	0.11	2	2		
VAV-124	AHU-1	B158 CALIBRATION	TITUS	DESV	6"	420	130	1.00	0.25	130	4.8	55	89.9	0.08	0.30	180	147.9	0.08	1	1		
VAV-125	AHU-1	B145 SUPERVISOR	TITUS	DESV	4"	140	110	1.00	0.25	95	4.5	55	99.0	0.01	0.40	180	154.1	0.1	1	1		
VAV-126	AHU-1	B144 QC IT	TITUS	DESV	4"	60	40	1.00	0.25	20	1.9	55	140.3	0.00	0.30	180	167.6	0.07	1	1		
VAV-127	AHU-1	B143 BRAIDERS	TITUS	DESV	5"	215	100	1.00	0.25	65	3.6	55	106.4	0.03	0.30	180	155.7	0.08	1	1		
VAV-128	AHU-1	B142 WIREMARK	TITUS	DESV	12"	1800	540	1.00	0.25	540	16.5	55	87.6	0.16	0.90	180	137.6	0.09	1	1		
VAV-129A	AHU-2	B140 AIRCRAFT WIRE SHOP	TITUS	DESV	8"	720	215	1.00	0.25	215	6.4	55	83.0	0.31	0.80	180	139.5	0.1	1	1		
VAV-129B	AHU-2	B140 AIRCRAFT WIRE SHOP	TITUS	DESV	8"	720	215	1.00	0.25	215	6.4	55	82.6	0.13	0.30	180	136.7	0.1	1	1		
VAV-129C	AHU-2	B140 AIRCRAFT WIRE SHOP	TITUS	DESV	8"	870	260	1.00	0.25	260	6.8	55	79.0	0.18	0.30	180	134.4	0.11	1	1		
VAV-129D	AHU-2	B140 AIRCRAFT WIRE SHOP	TITUS	DESV	8"	720	220	1.00	0.25	220	6.5	55	82.1	0.13	0.30	180	136.4	0.1	1	1		
VAV-130	AHU-2	B140 AIRCRAFT WIRE SHOP	TITUS	DESV	10"	1000	840	1.00	0.25	490	23.4	55	99.0	0.28	1.20	180	139.7	0.15	2	2		
VAV-131A	AHU-2	B137, B138	TITUS	DESV	6"	245	115	1.00	0.25	115	5.5	55	99.0	0.03	0.50	180	157.6	0.14	1	1		
VAV-131B	AHU-2	B135, B136	TITUS	DESV	6"	265	115	1.00	0.25	115	5.5	55	99.0	0.04	0.50	180	157.6	0.14	1	1		
VAV-132	AHU-2	B130 PRODUCTION CONTROLLERS OPEN	TITUS	DESV	8"	650	195	1.00	0.25	195	6.3	55	84.6	0.11	0.30	180	137.9	0.1	1	1		
VAV-133	AHU-2	B130 PRODUCTION CONTROLLERS OPEN	TITUS	DESV	8"	660	430	1.00	0.25	430	7.6	55	71.3	0.11	0.30	180	128.9	0.11	1	1		
VAV-134A	AHU-2	B132 STORAGE, B133 STORAGE	TITUS	DESV	4"	100	70	1.00	0.25	70	3.7	55	104.3	0.01	0.30	180	154.8	0.08	1	1		
VAV-134B	AHU-2	B134 ARCHIVE, B131 OFFICE	TITUS	DESV	4"	100	65	1.00	0.25	65	3.6	55	106.4	0.01	0.30	180	155.7	0.08	1	1		
VAV-135A	AHU-2	B127, B128	TITUS	DESV	6"	235	130	1.00	0.25	130	6.2	55	99.0	0.03	0.70	180	162.0	0.23	1	1		
VAV-135B	AHU-2	B126 MAIN TEST PILOT	TITUS	DESV	4"	120	90	1.00	0.25	90	4.3	55	99.0	0.01	0.30	180	153.3	0.09	1	1		
VAV-136	AHU-2	B120 QUALITY CONTROL OPEN OFFICE	TITUS	DESV	10"	840	250	1.00	0.25	250	9.3	55	89.3	0.09	0.60	180	148.7	0.07	1	1		
VAV-137	AHU-2	B120 QUALITY CONTROL OPEN OFFICE	TITUS	DESV	10"	840	250	1.00	0.25	250	9.3	55	89.3	0.09	0.60	180	148.7	0.07	1	1		
VAV-138	AHU-2	B120 QUALITY CONTROL OPEN OFFICE	TITUS	DESV	6"	375	265	1.00	0.25	265	11.5	55	95.0	0.16	0.60	180	143.0	0.08	1	1		
VAV-139	AHU-2	B117 CIRCULATION	TITUS	DESV	6"	200	65	1.00	0.25	85	4.1	55	99.2	0.02	0.30	180	152.6	0.08	1	1		
VAV-140	AHU-2	B124, B125, B125A	TITUS	DESV	6"	410	120	1.00	0.25	120	5.6	55	98.0	0.08	0.50	180	157.2	0.14	1	1		
VAV-141A	AHU-2	B121, B122	TITUS	DESV	4"	110	40	1.00	0.25	40	2.8	55	120.3	0.01	0.30	180	161.0	0.07	1	1		
VAV-141B	AHU-2	B123, B120	TITUS	DESV	5"	210	85	1.00	0.25	85	4.1	55	99.2	0.03	0.30	180	152.6	0.08	1	1		
VAV-143A	AHU-2	B103	TITUS	DESV	6"	400	400	1.00	0.21	400	12.1	55	83.0	0.08	3.10	180	172.0	3.59	1	1		
VAV-143B	AHU-2	B107, B109	TITUS	DESV	4"	90	90	1.00	0.25	90	4.2	55	98.0	0.01	0.30	180	152.0	0.08	1	1		
VAV-144	AHU-2	B104A CLASSROOM	TITUS	DESV	7"	450	135	1.00	0.25	135	6.4	55	99.0	0.06	0.50	180	150.7	0.17	1	1		
VAV-145	AHU-2	B104B SAFETY, BRIEFING & TRAINING	TITUS	DESV	7"	550	165	1.00	0.25	165	7.9	55	99.0	0.08	0.70	180	157.2	0.3	1	1		
VAV-147	AHU-2	B109 BREAK ROOM	TITUS	DESV	10"	1100	330	1.00	0.25	330	12.2	55	89.0	0.14	0.90	180	152.8	0.12	1	1		
VAV-148	AHU-2	B105 SAFETY, B109 SUPERVISOR	TITUS	DESV	5"	200	100	1.00	0.25	100	4.8	55	99.0	0.02	0.40	180	155.0	0.11	1	1		
VAV-149	AHU-2	B108, B108B ADMIN SUPPORT HR AREA	TITUS	DESV	8"	700	225	1.00	0.25	225	10.7	55	99.0	0.12	2.60	180	171.6	3.45	1	1		
VAV-150	AHU-1	B115 CIRCULATION	TITUS	DESV	7"	450	350	1.00	0.15	350	16.7	55	99.0	0.14	0.90	180	139.7	0.17	2	2		
VAV-151	AHU-1	B115 CIRCULATION	TITUS	DESV	7"	500	300	1.00	0.25	300	14.0	55	98.0	0.17	0.70	180	136.7	0.46	2	2		
VAV-152	AHU-2	B115 CIRCULATION	TITUS	DESV	7"	500	400	1.00	0.25	400	19.1	55	99.0	0.18	1.00	180	141.6	0.48	2	2		
VAV-153	AHU-2	B115 CIRCULATION	TITUS	DESV	7"	500	400	1.00	0.25	400	17.4	55	95.0	0.18	0.80	180	137.3	0.25	2	2		
VAV-154	AHU-2	B115 CIRCULATION	TITUS	DESV	10"	500	400	1.00	0.25	400	19.1	55	99.0	0.18	1.00	180	141.6	0.55	2	2		
VAV-200	AHU-3	B234 IT WORK & STORAGE	TITUS	DESV	6"	330	145	1.00	0.25	145	6.9	55	99.0	0.06	1.00	180	166.3	0.46	1	1		
VAV-201	AHU-3	B232, B233	TITUS	DESV	6"	320	95	1.00	0.25	95	4.5	55	99.0	0.05	0.40	180	154.1	0.1	1	1		
VAV-202	AHU-3	B231 IT WORKSTATIONS	TITUS																			