VARIABLE AIR VOLUME BOX SCHEDULE (NO. CFM)

SYMBOL	TRANE MODEL #	CFM SETTING MAX.	CFM SETTING MIN.	DUCT SIZE INLET	DUCT SIZE OUTLET (WXH)	HEATING COIL DATA @ 180° ENTERING WATER & 58 E.A.T. No. OF ROWS	MBH	LEAVING AIR TEMP	WATER ΔP FT	AIR ΔP	GPM	WATER ΔT	REMARKS
EX.V1-1		700	0	–	–	.	.	.	.	.	.	.	NOTE #1
EX.V1-2		400	0	–	–	.	.	.	.	.	.	.	NOTE #1
EX.V1-3		230	0	–	–	.	.	.	.	.	.	.	NOTE #1
EX.V1-4		635	0	–	–	.	.	.	.	.	.	.	NOTE #1
EX.V1-5		1215	0	–	–	.	.	.	.	.	.	.	NOTE #1
EX.V1-6		430	0	–	–	.	.	.	.	.	.	.	NOTE #1
EX.V1-7		2055	0	–	–	.	.	.	.	.	.	.	NOTE #1
EX.V1-8		730	0	–	–	.	.	.	.	.	.	.	NOTE #1
EX.V1-9		645	0	–	–								NOTE #1
EX.V1-10		475	0	–	–								NOTE #1
EX.V1-11		200	0	–	–	.	.	.	.	.	.	.	NOTE #1
EX.V1-12		200	0	–	–	.	.	.	.	.	.	.	NOTE #1
EX.V1-13		600	0	–	–	.	.	.	.	.	.	.	NOTE #1
V-101	VC WF 08	600	300	8"	11"x10"	1	11.15	89.25	.86	0.20	.5	44.60	
V-102	VC WF 10	800	350	10"	14"x12"	1	15.52	98.87	2.07	0.15	0.7	44.34	
V-103	VC WF 10	900	450"	10"	14"x12"	1	18.79	96.49	3.87	0.20	1.0	37.58	
V-104	VC WF 08	600	300	8"	11"x10"	1	11.15	92.25	0.86	0.20	0.5	44.6	
V-105	VC WF 08	500	200	8"	11"x10"	1	9.51	101.82	0.86	0.15	0.5	38.04	
V-106	VC WF 08	625	400	8"	11"x10"	1	12.41	85.59	0.86	0.20	0.5	49.64	
V-107	VC WF 06	260	260	6"	PLENUM	1	14.24	78.87	0.55	0.11	0.5	58.4	"E"
V-108	VC WF 08	600	600	8"	11"x10"	1	14.24	78.87	0.86	0.20	0.5	56.96	
V-109	VC WF 10	900	900	10"	14"x12"	1	24.54	82.13	3.87	0.20	1.0	49.08	
V-110	VC CF 14	1800	200	14"	19"x18"	--	--	--	--	0.1	--	--	
V-111	VC CF 14	2160	300	14"	19"x18	--	--	--	--	0.1	--	--	
V-112	VC WF 08	500	200	8"	11"x10"	1	9.51	101.82	0.86	0.15	0.5	38.04	
V-113	VC WF 06	375	165	8"	11"x10"	1	8.81	106.21	0.86	0.14	0.5	35.24	
V-114	VC WF 08	420	420	8"	11"x10"	1	12.41	85.60	0.86	0.12	0.5	49.69	
V-115	VC WF 10	400	400	8"	11"x10"	1	12.41	85.60	0.86	0.15	0.5	49.64	"F"
V-116	VC WF 06	250	250	6"	10"x8"	1	8.94	89.96	0.55	0.25	0.5	35.76	
V-117	VC WF 10	900	900	10"	14"x10"	1	25.07	82.67	3.87	0.20	1.0	50.14	
V-118	VC WF 06	200	100	6"	10"x8"	1	6.10	114.22	0.55	0.10	0.5	24.40	
V-119	VC WF 06	280	280	6"	10"x8"	1	9.34	87.77	0.55	0.20	0.5	37.36	
V-120	VC CF 06	125	80	6"	10"x8"	--	--	--	--	0.02	--	--	
V-121	VC WF 06	200	90	6"	10"x8"	1	5.83	116.70	0.55	0.10	0.5	23.32	
EX.V2-1		585	0	–	–	.	.	.	.	.	.	.	NOTE #1
EX.V2-2		400	0	–	–	.	.	.	.	.	.	.	NOTE #1
EX.V2-3		265	0	–	–	.	.	.	.	.	.	.	NOTE #1
EX.V2-4		750	250	–	–	.	.	.	.	.	.	.	NOTE #1
EX.V2-5		1100	0	–	–	.	.	.	.	.	.	.	NOTE #1
EX.V2-6		1600	1600	–	–	.	.	.	.	.	.	.	NOTE #1
EX.V2-7		1600	1600	–	–	.	.	.	.	.	.	.	NOTE #1
EX.V2-8		3135	0	–	–	.	.	.	.	.	.	.	NOTE #1
EX.V2-9		1875	0	–	–								NOTE #1
EX.V2-10		1575	0	–	–								NOTE #1
EX.V2-11		860	0	–	–	.	.	.	.	.	.	.	NOTE #1
EX.V2-12		830	0	–	–	.	.	.	.	.	.	.	NOTE #1
EX.V2-13		315	0	–	–	.	.	.	.	.	.	.	NOTE #1
EX.V2-14		245	0	–	–	.	.	.	.	.	.	.	NOTE #1
EX.V2-15		800	0	–	–	.	.	.	.	.	.	.	NOTE #1
EX.V2-16		985	0	–	–	.	.	.	.	.	.	.	NOTE #1
V-200	VC WF 06	–	–	–	–	1	–	–	–	–	–	–	
V-201	VC WF 10	800	800	10"	14"x12"	1	23.94	84.58	3.87	0.15	1.0	47.88	
V-202	VC WF 08	500	400	8"	11"x10"	1	12.41	86.60	0.86	0.15	0.5	49.64	
V-203	VC WF 12	1200	1000	12	17"x14"	1	26.20	81.15	0.72	0.19	1.0	52.4	
V-204	VC WF 08	600	600	8"	11"x10"	1	14.24	78.66	0.86	0.15	0.5	56.96	
V-205	VC WF 06	350	150	6"	10"x8"	1	7.26	102.60	0.55	0.25	0.5	29.04	
V-206	VC WF 06	150	60	6"	10"x8"	1	4.62	127.97	0.55	0.07	0.5	18.48	
V-207	VC WF 06	150	60	6"	10"x8"	1	4.62	136.14	0.55	0.07	0.5	18.48	
V-208	VC WF 06	400	200	6"	10"x8"	1	8.17	94.65	0.55	0.07	0.5	32.68	
V-209	VC WF 06	300	300	6"	10"x8"	1	11.40	92.02	1.00	0.07	0.5	19.24	

NOTES:

1. REBALANCE EXIST. BOX MAX & MIN PER SCHEDULE
2. EXAMPLE OF AN ACCEPTABLE PRODUCT AND MANUFACTURER: TRANE

SCHEDULE OF CABINET HEATERS

SYMBOL	MANUFACTURER AND MODEL NUMBER	HEATING COIL DATA CFM	HEATING COIL DATA TMBH	HEATING COIL DATA GPM	FAN MOTOR DATA RPM	FAN MOTOR DATA HP	FAN MOTOR DATA VOLTAGE	ARRANGEMENT AND ACCESSORIES	LOCATION	REMARKS
CH-1	"TRANE" FC-B-B-030-1-J	256	24.8	1.65	1080/H 600/L	.05	120/60/1	"B" TYPE FLOOR MOUNTED	VESTIBULE	
CH-2	"TRANE" FC-H-B-030-1-J	256	24.8	1.65	1080/H 600/L	.05	120/60/1	"H" VERTICAL RECESSED	VESTIBULE	

HYDRONIC RADIANT CEILING PANEL SCHEDULE

SYMBOL CHWRP	MODEL	PANEL WIDTH	PANEL DATA NO OF TUBES	PANEL DATA TUBE SIZE	PANEL DATA CAPACITY	REMARKS
	ELF-1	12"	2 (1-SUPPLY) (1-RETURN)	1/2" O.D. COPPER	180 BTUH/FT.	SEE NOTES

NOTES:

1. PANEL CONTRACTOR TO PROVIDE AND INSTALL ALL NECESSARY HANGERS, ELEMENT, 1-1/2" FIBERGLASS INSULATION CONNECTING ADAPTORS, ETC. REQUIRED FOR A COMPLETE INSTALLATION.
2. PANEL CONTRACTOR TO MAKE ALL FINAL PIPING CONNECTIONS AT TIME OF PANEL INSTALLATION.
3. PANEL CAPACITY IS BASED ON 170° AVG. WATER TEMPERATURE.
4. EXAMPLE OF AN ACCEPTABLE PRODUCT AND MANUFACTURER: STERLING

RETURN/EXHAUST REGISTER SCHEDULE

SYMBOL CR-?	ANEMOSTAT MODEL No.	TYPE	NECK SIZE	CFM RANGE	MODULE SIZE	REMARKS
CR-1	ANEMOSTAT -3RPLD	L	6"ø	100-150	24" x 24"	FURNISHED WITH DAMPER CONTROL
CR-1A	ANEMOSTAT -3RPLD	L	6"ø	50-100	12" x 12"	FURNISHED WITH DAMPER CONTROL
CR-2	ANEMOSTAT -3RPLD	L	8"ø	155-300	24" x 24"	FURNISHED WITH DAMPER CONTROL
CR-3	ANEMOSTAT -3RPLD	L	10"ø	305-500	24" x 24"	FURNISHED WITH DAMPER CONTROL
CR-4	ANEMOSTAT -3RPLD	L	12"ø	505-700	24" x 24"	FURNISHED WITH DAMPER CONTROL
CR-5	ANEMOSTAT -3HD	L	14"ø	705-1000	30" x 10"	FURNISHED WITH DAMPER CONTROL
CR-6	ANEMOSTAT -3RPLD	L	8"x18"	1300-2000	24" x 24"	FURNISHED WITH DAMPER CONTROL

SUPPLY DIFFUSER SCHEDULE

SYMBOL ** (CFM)	MANUFACTURER AND MODEL No.	NECK SIZE	MAXIMUM CFM RANGE 4-WAY	3-WAY	2-WAY	1-WAY	TYPE	PANEL SIZE	REMARKS
6-1thru4	ANEMOSTAT PGF	6"DIA.	150	130	100	50	F	12" x 12"	
8-1thru4	ANEMOSTAT PGL	8"DIA.	350	200	175	90	L	12" x 12"	
8-1thru4	ANEMOSTAT PGL	8"DIA.	350	280	250	100	L	24" x 24"	
10-1thru4	ANEMOSTAT PGL	10"DIA.	550	450	350	175	L	24" x 24"	
12-1thru4	ANEMOSTAT PGL	12"DIA.	650	600	500	250	L	24" x 24"	
14-1thru4	ANEMOSTAT PGL	14"DIA.	950	800	700	350	L	24" x 24"	
15-1thru4	ANEMOSTAT PGL	15"DIA.	1,400	1000	800	400	L	24" x 24"	

NOTES:

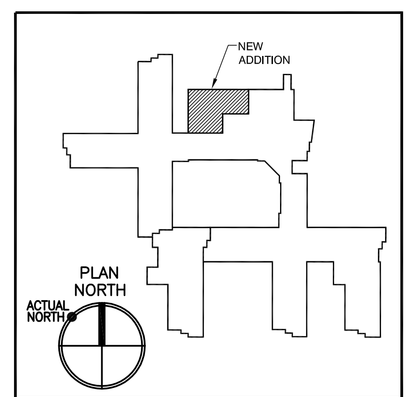
1. ** FIRST NUMBER INDICATES SUPPLY DIRECTION, SECOND NUMBER INDICATES NECK SIZE 1,2,3 OR 4-WAY.

EXHAUST FAN SCHEDULE

FAN No.	FAN RPM	SONE	BHP	AREA SERVED	CFM	S.P.	MOTOR DATA H.P.	RPM	VOLTS	PH	AMPS	ACCESSORIES	REMARKS
EF-1	1742	10.3	.16	1st FLOOR KITCHEN HOOD	500	.75	1/6	1750	120	1	–	16" HIGH PRE FAB CURB & DISCONNECT SWITCH.	COOK MODEL 100SC2B OR EQUAL
EF-2	1200	2.5	171W	2ND FLOOR SMOKING LOUNGE	300	.50	171W	1200	120	1	–	FAN SPEED CONTROLER WALL CAP MODEL: WCA-2	COOK MODEL GN520 OR EQUAL
EF-3	1100	1.5	100W	2ND FLOOR TOILET	110	.50	100W	1100	120	1	–	FAN SPEED CONTROLER WALL CAP MODEL: WCR6-ALUM.	COOK MODEL GN-144 OR EQUAL

SCHEDULE OF VENTILATION

ROOM NAME AND NUMBERS		AREA SQ. FT.	VOLUME SQ. FT.	CEILING HEIGHT (FEET)	GUIDELINES 2010 ASHRAE 170-2008 TOTAL AIR ACH	TOTAL AIR CFM	OUTSIDE AIR ACH	OUTSIDE AIR CFM	ROOM PRESSURE	IMC 2009 OUTDOOR AIR REQUIREMENTS OUTDOOR AIR CFM/PERSON	OUTDOOR AIR CFM/SQ. FT.	OUTDOOR AIR PERSONS	OUTDOOR AIR CFM	EXHAUST AIR CFM/WC	EXHAUST AIR CFM/SQ. FT.	EXHAUST AIR WC	EXHAUST AIR CFM	OUTDOOR AIR REQUIRED	EXHAUST AIR REQUIRED	CFM PROVIDED SUPPLY	RETURN	OUTDOOR	EXHAUST	REMARKS
CORRIDOR	100A	918	7,803	8'-6"	2	260	--	--	P	--	0.06	--	55	--	--	--	--	55	--	2450	2450	613	--	.
CORRIDOR	100B	306	2,601	8'-6"	2	87	--	--	--	--	0.06	--	18	--	--	--	--	18	--	100	100	25	--	
CORRIDOR	100C	336	2,856	8'-6"	2	95	--	--	--	--	0.06	--	20	--	--	--	--	20	--	200	200	50	--	
CORRIDOR	100D	240	2,040	8'-6"	2	68	--	--	--	--	0.06	--	15	--	--	--	--	15	--	200	200	50	--	.
STORAGE	101A	30	255	8'-6"	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
CAFE	101	900	7,650	8'-6"	--	--	--	--	--	7.5	0.18	30	387	--	--	--	--	--	--	900	900	225	--	
STORAGE	102A	50	425	8'-6"	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MEDITATION/CAFE	102	392	3,332	8'-6"	--	--	--	--	--	2.5	0.18	10	146	--	--	--	--	--	--	550	550	138	--	PART OF CAFE
HAC	103	26	221	8'-6"	10	42	--	--	N	--	--	--	--	--	--	--	--	--	--	--	--	--	75	
PODIATRIST/ORTHO	104	135	1148	8'-6"	6	114	2	38	--	5	0.06	2	18	--	--	--	--	--	--	155	155	39	--	
WAITING	105	130	1,118	8'-6"	--	--	--	--	--	5	0.06	2	18	--	--	--	--	--	--	220	220	55	--	
PROC/FITTING	106	168	1,428	8'-6"	--	--	--	--	--	5	0.06	2	20	--	--	--	--	--	--	125	125	31	--	
AUDIO CONTROL ROOM	107	63	504	8'-6"	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	150	150	--	--	
AUDIOMETRIC ROOM	108	86	731	8'-6"	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	150	150	--	--	
HYGIENIST	109	126	1071	8'-6"	--	--	--	--	--	5	0.06	1	13	--	--	--	--	--	--	125	125	31	--	
DENTAL OFFICE	110	121	1,028	8'-6"	--	--	--	--	--	5	0.06	1	13	--	--	--	--	--	--	100	100	25	--	
CLOSET	111	30	255	8'-6"	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
DENTAL EXAM	112	127	1,080	8'-6"	6	108	2	36	--	5	0.06	2	17	--	--	--	--	--	--	200	200	50	--	
DENTAL EXAM	113	127	1,080	8'-6"	6	108	2	36	--	5	0.06	2	17	--	--	--	--	--	--	200	200	50	--	
PSYCHOLOGIST	114	128	1,088	8'-6"	--	--	--	--	--	5	0.06	2	17	--	--	--	--	--	--	125	125	31	--	
PSYCHIATRIST	115	126	1,071	8'-6"	--	--	--	--	--	5	0.06	2	17	--	--	--	--	--	--	125	125	31	--	
SPEECH THERAPY OFFICE	116	126	1,071	8'-6"	--	--	--	--	--	5	0.06	2	17	--	--	--	--	--	--	125	125	31	--	
SPEECH THERAPY EXAM	117	186	1581	8'-6"	6	158	2	52	--	5	0.06	2	17	--	--	--	--	--	--	250	250	62	--	
RESPIRATORY EXAM	118	240	2,040	8'-6"	6	204	2	64	--	5	0.06	2	24	--	--	--	--	--	--	375	375	94	--	
RESPIRATORY STORAGE	119	153	1,300	8'-6"	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	75	75	19	--	
HC TOILET	120	53	450	8'-6"	10	75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	75	
HC TOILET	121	53	450	8'-6"	10	77	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	75	
PHYSICAL THERAPY	122	1,213	10,310	8'-6"	6	1031	2	344	N	--	--	--	--	--	--	--	--	--	--	1500	1600	375	--	
EXAM ROOM	123	182	1,547	8'-6"	6	160	2	52	--	--	--	--	--	--	--	--	--	--	--	160	160	40	--	
PT STORAGE ROOM	124	181	1538	8'-6"	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100	100	25	--	
MULTI-PURPOSE ROOM	125	275	2,337	8'-6"	--	--	--	--	--	5	0.06	.8	57	--	--	--	--	--	--	500	500	125	--	
PT/OT OFFICE	126	360	3,060	8'-6"	--	--	--	--	--	5	0.06	6	52	--	--	--	--	--	--	500	500	125	--	
OCCUPATIONAL THERAPY	127	981	8,338	8'-6"	6	834	2	278	--	--	--	--	--	--	--	--	--	--	--	1700	1700	425	--	
ADL KITCHEN	128	230	1,955	8'-6"	--	--	--	--	--	5	0.06	2	24	--	--	--	--	--	161	200	--	50	500	
ADL BATHROOM	129	200	1700	8'-6"	--	--	--	--	--	5	0.06	2	22	--	--	--	--	--	--	100	100	25	--	
OT STORAGE ROOM	130	131	1,113	8'-6"	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100	100	25	--	
EQUIPMENT REPAIR	131	140	1,190	8'-6"	--	--	--	--	--	5	0.06	1	13	--	--	--	--	--	--	100	100	25	--	
PLUMBING	132	102	867	8'-6"	--	--	--	--	--	5	0.06	1	11	--	--	--	--	--	--	100	100	25	--	
VESTIBULE	133	47	400	8'-6"	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
CORRIDOR	200A	1,111	9,443	8'-6"	2	314	--	--	--	--	0.06	--	67	--	--	--	--	--	--	2450	2450	613	--	
CORRIDOR	200B	624	5,304	8'-6"	2	177	--	--	--	--	0.06	--	37	--	--	--	--	--	--	200	200	50	--	
CONFRENCE ROOM	201	575	4,887	8'-6"	--	--	--	--	--	5	0.06	20	135	--	--	--	--	--	--	600	600	150	--	
VESTIBULE	202	70	595	8'-6"	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SOCIAL WORKER	203	101	858.5	8'-6"	--	--	--	--	--	5	0.06	2	16	--	--	--	--	--	--	175	175	44	--	
CHAPLAINS OFFICE	204	105	892	8'-6"	--	--	--	--	--	5	0.06	2	16	--	--	--	--	--	--	175	175	44	--	
ON CALL/MOD OFFICE	205	110	935	8'-6"	--	--	--	--	--	5	0.06	1	12	--	--	--	--	--	--	150	--	38	150	VIA 205T
HC BATHROOM	205T	64	544	8'-6"	10	91	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	150	
HC TOILET	206	53	450	8'-6"	10	75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	75	
RECREATIONAL THERAPY	207	952	8,092	8'-6"	6	809	2	270	--	5	0.06	16	137	--	--	--	--	--	--	1200	1000	300	--	
REC THERAPY OFFICE	208	360	3,060	8'-6"	--	--	--	--	--	5	0.06	6	62	--	--	--	--	--	--	500	500	125	--	
ART/MISC THERAPY	209	714	6,069	8'-6"	--	--	--	--	--	5	0.06	10	93	--	--	--	--	--	--	800	800	200	--	
SMOKING AREA	211	139	1,181	8'-6"	--	--	--	--	--	60	--	5	300	--	--	--	--	--	--	300	--	75	300	
CORRIDOR	212	150	1,275	8'-6"	2	43	--	--	--	--	0.06	--	9	--	--	--	--	--	--	100	100	25	--	
VESTIBULE	213	85	722	8'-6"	2	43	--	--	--	--	0.06	--	9	--	--	--	--	--	--	100	--	25	--	VIA 215
SUPERVISORS OFFICE	214	405	3442	8'-6"	--	--	--	--	--	5	0.06	1	29	--	--	--	--	--	--	150	150	37	--	
HC TOILET	215	53	450	8'-6"	10	75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100	
BREAK ROOM	216	396	3,366	8'-6"	--	--	--	--	--	5	0.06	12	84	--	--	--	--	--	--	400	400	100	--	



KEY PLAN

4/19/13

Revisions	Date

OVERALL FLOOR PLAN

Department of Veterans Affairs
New Jersey Health Care System
151 Knollcroft Road
Lyons, New Jersey 07939

A Professional Corporation

BBLM Architects
Architecture Planning Interiors
924 Cherry Street Phila., PA 19107 (215) 625-2500

Ritter & Plante Associates, LLC
4220 Main Street
Philadelphia, PA 19127
t: (215) 508-3900
f: (215) 508-3800

The Kachele Group
1218 Chestnut Street
Philadelphia, PA 19107
t: (215) 238-1994
f: (215) 238-6950

LKU GROUP INC. CONSULTING ENGINEERS
241 Molnar Drive
Elmwood Park, NJ 07407
t: (201) 791-1210
Matthew Huber, Professional Engineer NJ NO. 20843

Drawing Title: MEHANICAL: SCHEDULES

Project Title: CLC SUPPORT SPACES VAMC - LYONS

Date: 2/05/13

Project No.: 1009

Approved: Chief, Facilities Engineering Serv.

Drawn: SMR

Building Number: 135

Contract Number: 561-CSI-136

Approved: Chief Executive Officer

Checked: JA

Location: LYONS, NJ

M-8

Dwg. OF

VETERANS ADMINISTRATION