NEW VARIABLE VOLUME TERMINAL BOX SCHEDULE

DESIGNATION	296	300	302	303	307	309	310	311	313	314	316	318	319	320	321	322	323	327	329	330	331
SPACE NUMBER	1174	1175	1177A	1177B	1176	1177C	1177D	1169	1142	1142	1155	1153	1154	1154	1154	1154	1154	1151, 1151A	1145	1142	1142
CFM	1066	518	253	253	518	253	253	1363	1110	1110	780	789	1115	1115	1115	1115	1115	406	858	1000	1250
MIN SUPPLY CFM	267	130	127	127	130	127	127	235	820	820	312	197	330	330	330	330	330	203	215	500	625
MAX SP-H_2O	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
SOUND POWER LEVEL (NC)	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
MODEL VCWF	10	06	05	05	06	05	05	10	10	10	08	08	10	10	10	10	10	06	08	10	10
DUCT RUN-OUT SIZE	12"	8"	EXISTING	EXISTING	8"	EXISTING	EXISTING	12"	EXISTING	EXISTING	11"	11"	12"	EXISTING	EXISTING	EXISTING	EXISTING	8"	12"	EXISTING	EXISTING
REHEAT COIL																					
BTU HR	17,927	8712	4255	4255	8712	4255	4255	22,922	27,581	27,581	13,118	13,269	18,751	18,751	21,776	18,751	18,751	6828	14,429	19,530	24,413
ENT WTR TEMP (F°)	180°	180°	180°	180°	180°	180°	180°	180°	180°	180°	180°	180°	180°	180°	180°	180°	180°	180°	180°	180°	180°
GPM	1.8	0.9	0.4	0.4	0.9	0.4	0.4	2.3	2.8	2.8	1.3	1.3	1.9	1.9	2.2	1.9	1.9	0.7	1.4	2.0	2.4
ROWS	AS REQ'D	AS REQ'D	AS REQ'D	AS REQ'D	AS REQ'D	AS REQ'D	AS REQ'D	AS REQ'D	AS REQ'D	AS REQ'D	AS REQ'D	AS REQ'D	AS REQ'D	AS REQ'D	AS REQ'D	AS REQ'D	AS REQ'D	AS REQ'D	AS REQ'D	AS REQ'D	AS REQ'D
WTR PD FT. (MAX.)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
EAT DB.	49°F	49°F	49°F	49°F	49°F	49°F	49°F	49°F	49°F	49°F	49°F	49°F	49°F	49°F	49°F	49°F	49°F	49°F	49°F	49°F	49°F
LAT DB.	80°F	80°F	80°F	80°F	80°F	80°F	80°F	80°F	80°F	80°F	85°F	80°F	80°F	80°F	85°F	80°F	80°F	80°F	80°F	85°F	85°F
PIPING RUN-OUT SIZE	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING

REMARKS: (ALL NOTES APPLY TO ALL BOXES)

① ALL BOXES TO BE PRESSURE INDEPENDENT.
② DUCT RUN-OUT SIZE DOES NOT MEAN INLET BOX SIZE. A TRANSITION MAY BE REQUIRED.
③ ALL BOXES TO BE EQUIPPED WITH DDC AUXILIARY TEMPERATURE SENSOR.
④ SEE SHEET M-504 FOR VAV BOX PLENUM DETAIL (CONNECTIONS TO DIFFUSERS).
⑤ CONTRACTOR TO VERIFY ALL VALVE BOX NUMBERS MATCH SPACE NUMBERS AS INDICATED ON SCHEDULE.

REBALANCE EXISTING VARIABLE VOLUME TERMINAL BOX SCHEDULE

DESIGNATION	2	3	4	5	6	7	8	9	10	11	12	13	14	16	17	18	19	20	22	23	29	30	32	33	34	40	42	46
SPACE NUMBER	1118L	1118K	1118J	1118H	1118A	1118B	1118C	1118D	1118E	1118F	2135	2137	2139	2108	2110	2112	2114	2116	2143A	2143	2115B	2115A	2216	2216	2214	2214	2230	2171
EXISTING SUPPLY CFM	180	176	176	180	170	170	170	170	170	170	1501	1578	1578	1501	1578	1578	1578	432	432	432	640	640	1380	340	1660	1660	1053	741
NEW SUPPLY CFM	213	195	197	209	173	177	177	177	177	173	1105	1105	1105	1105	1105	1105	1105	383	398	398	557	557	1254	455	957	957	900	747
MINIMUM SUPPLY CFM	53	72	72	73	72	71	71	71	71	69	442	442	442	442	442	442	442	150	179	179	223	223	278	114	479	479	360	208
EXISTING REHEAT COIL BTU	2683	2623	2623	2623	2623	2623	2623	2623	2623	2623	28693	30165	30165	28693	30165	30165	30165	8258	8258	8258	8294	8294	9,000	2,000	11,000	11,000	12623	14142
NEW REHEAT COIL BTU	3582	3279	3313	3515	2909	2977	2977	2977	2977	2909	18,593	18,593	18,593	18,593	18,593	18,593	18,593	6441	6693	6693	9367	9367	23,208	7635	16,111	16,111	15,136	12,563
EXISTING GPM	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	2.8	3.0	3.0	2.8	3.0	3.0	3.0	0.8	0.8	0.8	0.8	0.8	0.9	0.2	1.1	1.1	1.3	1.4
NEW HW GPM	0.4	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	1.9	1.9	1.9	1.9	1.9	1.9	1.9	0.6	0.7	0.7	0.9	0.9	2.3	0.8	1.6	1.6	1.5	1.3

REMARKS: (ALL NOTES APPLY TO ALL BOXES)

① USE EXISTING DUCTWORK, PIPE & VAV BOX, REBALANCE TO MEET NEW REQUIREMENTS.
② CONTRACTOR TO VERIFY ALL VAV BOX NUMBERS MATCH SPACE NUMBERS AS INDICATED ON SCHEDULE.

REBALANCE EXISTING VARIABLE VOLUME TERMINAL BOX SCHEDULE

DESIGNATION	47	48	52	53	54	55	58	59	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	78	79	83	86
SPACE NUMBER	2173	2175	2192	2190	2188	2186	2183	2185	2189	2191	2189	2191	2196	2196	2195	2195F	2195E	2195D	2195C	2195B	2195A	2146D	2146A	2146B	2138	2136	2136	2132C
EXISTING SUPPLY CFM	704	704	773	704	704	1620	1998	2001	742	742	742	742	1580	1580	433	95	89	121	60	63	67	25	418	1580	1279	2125	2125	260
NEW SUPPLY CFM	696	760	789	704	790	934	1860	1860	681	665	681	665	1033	1033	528	100	96	160	231	70	80	55	313	1109	1283	1170	1170	320
MINIMUM SUPPLY CFM	217	305	227	222	316	334	680	640	203	209	203	209	266	266	197	40	40	40	116	40	40	40	125	460	642	420	420	85
EXISTING REHEAT COIL BTU	14142	14142	15528	14142	14142	25,000	40136	40136	14905	14908	14905	14908	23,000	23,000	8698	1908	4250	2431	10,000	1266	1346	373	6230	11,000	19055	31671	31671	11,000
NEW REHEAT COIL BTU	11718	12,781	13,269	11718	11,839	11,234	31,280	31,281	11,452	11,183	11,453	11,184	17,284	17,284	8880	1682	1614	2690	3900	2355	1345	1345	5264	17,967	21353	23,554	23,544	5381
EXISTING GPM	1.4	1.4	1.6	1.4	1.4	2.5	4.0	4.0	1.5	1.5	1.5	1.5	2.3	2.3	0.9	0.2	0.2	0.2	1.0	0.1	0.1	0.1	0.6	1.1	1.9	3.2	3.2	1.1
NEW HW GPM	1.2	1.3	1.3	1.2	1.2	1.1	3.1	3.1	1.1	1.1	1.1	1.1	1.7	1.7	0.9	0.2	0.2	0.3	0.4	0.2	0.1	0.1	0.5	1.8	2.1	2.4	2.4	0.5

REMARKS: (ALL NOTES APPLY TO ALL BOXES)

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REBALANCE EXISTING VARIABLE VOLUME TERMINAL BOX SCHEDULE

DESIGNATION	87	88	91	93	94	95	96	97	98	100	102	105	106	107	108	109	110	111	112	113	116	118	119	120	121	122	123	124
SPACE NUMBER	2132	2132D	2132E	2132B	2132G	2132F	2130	2131A	2131B	2120A	2120B	2121	2126A	2126	2126B	2126C	2126D	2126E	2126F	2132A	2206	2206	2197	2197	2198	2200	2200	2200
EXISTING SUPPLY CFM	762	630	660	95	69	282	386	203	80	220	935	460	163	546	222	313	159	80	72	255	1029	1029	1580	1580	350	945	1417	945
NEW SUPPLY CFM	762	835	666	121	100	312	466	215	98	225	886	500	130	553	290	412	214	98	94	372	813	813	1048	1048	504	855	1290	855
MINIMUM SUPPLY CFM	370	209	333	48	40	125	186	86	40	110	355	200	65	221	119	165	86	40	40	149	407	407	314	314	126	460	460	460
EXISTING REHEAT COIL BTU	8000	10,000	8000	1575	1028	4203	5753	3026	1192	2,000	10427	4,000	2429	8138	3309	4665	2370	1192	1073	3801	13996	13996	11,000	11,000	2000	30163	15082	30163
NEW REHEAT COIL BTU	12,815	14,025	13,730	2052	1681	5247	7837	3616	1648	4535	14,900	7161	2186	9300	4877	6929	3599	1648	1581	6256	13,689	13,689	17,187	17,187	8408	15,472	21,695	14,379
EXISTING GPM	0.8	1.0	0.8	0.1	0.1	0.4	0.6	0.3	0.1	0.2	1.0	0.4	0.2	0.8	0.3	0.5	0.2	0.1	0.1	0.4	1.4	1.4	1.1	1.1	0.2	2.0	1.0	3.0
NEW HW GPM	1.3	1.4	1.4	0.2	0.2	0.5	0.8	0.4	0.2	0.5	1.5	0.7	0.2	0.9	0.5	0.7	0.4	0.2	0.2	0.6	1.4	1.4	1.7	1.7	0.8	1.5	2.2	1.4

REMARKS: (ALL NOTES APPLY TO ALL BOXES)

① USE EXISTING DUCTWORK, PIPE & VAV BOX, REBALANCE TO MEET NEW REQUIREMENTS.
② CONTRACTOR TO VERIFY ALL VAV BOX NUMBERS MATCH SPACE NUMBERS AS INDICATED ON SCHEDULE.

THESE DOCUMENTS HAVE BEEN PREPARED PRIMARILY BASED ON INFORMATION PROVIDED BY OTHERS. I.C. THOMASSON HAS NOT VERIFIED THE ACCURACY OF ALL INFORMATION PROVIDED BY OTHERS. SEE LIMIT OF LIABILITIES STATEMENT ON COVER SHEET.

STATE OF MARYLAND — MECHANICAL ENGINEER

US ARMY ENGINEERING AND SUPPORT CENTER HUNTSVILLE

Symbol	Description	Date	Appr.

TASK ORDER #: FRR004

PADUCAH, KENTUCKY
VOICE 270-442-8620

I.C. Thomasson Associates, Inc.
NASHVILLE, TENNESSEE
PHONE (615) 346-3400

Date: 02/27/04
Checked by: WTT
Dwn by: ICT
CADD File Name: 312MD02.DGN
ICT Project No. 20312
DAC87-03-D-0006
Plot date: 02/27/04
Approved by:
Chief, Prj. Mgmt. Division
Plot scale:

DEFENSE INFORMATION SCHOOL
FT. MEADE
MARYLAND

MECHANICAL SCHEDULES

Sheet reference number:
M-002