DIRECT GEO EXCHANGE - AIR HANDLING UNIT AND HEAT PUMP SCHEDULE

MARK	LOCATION	AREA AND/OR BLDG SERVED	TYPE	TOTAL SUPPLY AIR FLOW		MIN. OUTSIDE AIR FLOW		EXT STATIC PRESSURE		COOLING CAPACITY - HEAT PUMP								HEATING CAPACITY - HEAT PUMP							REFRIGERANT	AIR FILTER MARK NO	ELECTRICAL DATA											REMARKS
										MIN TOTAL CAPACITY		MIN SENS CAPACITY		MIN EER	EAT				MIN. HEAT CAPACITY	EAT DB		LAT DB		MIN COP			AIR HANDLER						COMPRESSOR/HEAT PUMP					
															Db		Wb																				
				CFM	[L/s]	CFM	[L/s]	IN	[Pa]	MBH	[kW]	MBH	[kW]		°F	[°C]	°F	[°C]	MBH	KW	°F	[°C]	°F	[°C]				FAN HP	ELEC HTR	MCA	MOCP	PHASE	VOLT	RLA	MCA	MOCP	PHASE	VOLT	
1001-AHU-1/HP-1	MECH	ADMIN	DIRECT GEO EXCHANGE	1555	[730]	200	[94]	0.75	[190]	35.5	[120]	33.6	[10]	14.7	76	[24]	60	[16]	42.1	[12]	69	[21]	95	[35]	4.1	R-410A	1001-PF-1	3/4	10.8 KW	72.6	90	1	208	14.7	18	30	3	208	-----
1001-AHU-2/HP-2	MECH	LOBBY	DIRECT GEO EXCHANGE	825	[390]	100	[47]	0.5	[130]	18.8	[64]	17.8	[5]	14.5	76	[27]	60	[19]	14	[4]	69	[18]	85	[29]	4.0	R-410A	1001-PF-2	1/2	7.2 KW	54.4	60	1	208	11	13	20	3	208	
1001-AHU-3/HP-3	MECH	RESTROOM	DIRECT GEO EXCHANGE	600	[280]	600	[280]	0.6	[150]	16.0	[55]	12.9	[4]	14.1	79	[27]	62	[19]	17.0	[5]	58	[18]	85	[29]	3.9	R-410A	1001-PF-3	1/3	5.6 KW	37.9	[45]	[1]	[208]	9	11	20	3	208	

ENERGY RECOVERY VENTILATOR SCHEDULE

MARK	LOCATION	SYSTEM AND/OR SERVICE	MODE	SUPPLY AIR										EXHAUST AIR										ELECTRICAL				REMARKS
				SUPPLY AIR FLOW		EXTERNAL APD		EAT				LAT						EAT				LAT							
								Db		Wb		Db		Wb				Db		Wb		Db		Wb					
				CFM	[L/s]	IN	[Pa]	°F	[°C]	°F	[°C]	°F	[°C]	°F	[°C]	CFM	[L/s]	IN	[mm]	°F	[°C]	°F	[°C]	°F	[°C]	°F	[°C]	MCA	MCAP	PHASE	VOLT	
1001-ERV-1	ADIM	VENT	SUMMER	300	[140]	0.5	[13]	92	[33]	65	[18]	79	[26]	62	[17]	300	[140]	0.5	[13]	75	[24]	63	[17]	91	[33]	65	[18]	8.8	15	1	120	
			WINTER	300	[140]	0.5	[13]	24	[-4]	21	[-6]	59	[15]	47	[8]	300	[140]	0.5	[13]	70	[21]	53	[12]	35	[2]	30	[-1]					
1001-ERV-2	ADIM	RESTROOM	SUMMER	600	[280]	0.5	[13]	92	[33]	65	[18]	80	[27]	62	[17]	600	[280]	0.5	[13]	75	[24]	63	[17]	93	[34]	66	[19]	20.3	25	1	120	
			WINTER	600	[280]	0.5	[13]	24	[-4]	21	[-6]	58	[14]	46	[8]	600	[280]	0.5	[13]	70	[21]	53	[12]	32	[ ]	27	[-3]					

AIR DEVICE SCHEDULE (LINEAR)

MARK	TYPE	AIR FLOW				MAX APD		MIN THROW		MAX THROW		# OF SLOTS	SLOT WIDTH		PANEL/FRAME SIZE		NECK SIZE		THROW PATTERN	THROW TYPE	NC	DAMPER	FINISH	REMARKS
		MIN		MAX											IN	[mm]	IN	[mm]						
		CFM	[L/s]	CFM	[L/s]	IN WG	[Pa]	FT	[M]	FT	[M]		IN	[mm]										
LD-1	LINEAR	200	[94]	400	[190]	0.21	53.00	4 - 7 -12	[1.2 - 2.1 - 3.6]	8 -12 -17	[2.4 - 3.6 - 5.1]	4	2	[50]	48x7	[1200 x175]	10 ø	[250 ø]	2 WAY	HORIZONTAL	28	NONE	WHITE	-----
LD-2	LINEAR	200	[94]	400	[190]	0.28	70.00	4 - 7 -12	[1.2 - 2.1 - 3.6]	8 -12 -17	[2.4 - 3.6 - 5.1]	4	2	[50]	48x7	[1200 x 175]	8 ø	[200ø]	2 WAY	HORIZONTAL	28	NONE	WHITE	-----
LD-3	LINEAR	100	[47]	250	[120]	0.12	30.00	3 - 6 - 11	[0.9 -1.8- 3.5]	7 - 9 - 13	[2.1 - 2.7- 4.0]	2	2	[50]	48x4	[1200 x 100]	8ø	[200 ø]	2 WAY	HORIZONTAL	29	NONE	WHITE	-----
LD-4	LINEAR	80	[38]	200	[94]	0.10	25.00	1 - 3 - 10	[0.3 -0.9- 3.0]	7 -12 -20	[2.1 - 3.6 - 6.0]	3	0.75	[19]	48 x 5	[1200 x 125]	8 ø	[200 ø]	1 WAY	HORIZONTAL	20	NONE	WHITE	-----
LD-5	LINEAR	100	[47]	250	[120]	0.10	25.00	N/A	N/A	N/A	N/A	4	0.75	[19]	48 x 6	[1200 x 150]	8ø	[200 ø]	N/A	N/A	20	NONE	WHITE	EXHAUST AIR
LD-6	LINEAR	75	[35]	130	[61]	0.12	30.00	2 - 4 - 8	[0.6 -1.2- 2.4]	6 - 9 - 13	[1.8- 2.7- 4.0]	2	2	[50]	24 x 5	[600 x 125]	6ø	[150ø]	2 WAY	HORIZONTAL	29	NONE	WHITE	-----

NOTES
1. PROVIDE COLLAR AND TRANSITION AS REQUIRED.

INTAKE/EXHAUST HOOD SCHEDULE

MARK	LOCATION	SYSTEM AND/OR SERVICE	TYPE	APPLICATION	THROAT SIZE		AIR FLOW		APD		DAMPER TYPE	REMARKS
					IN	[mm]	CFM	[L/s]	IN	[Pa]		
1001-IH-1	ADMIN	1001-ERV-1	SPUN ALUMINUM	OUTSIDE AIR INTAKE	10"ø	[250]	300	[140]	0.1	[25]	ELECTRIC	---
1001-EH-1	ADMIN	1001-ERV-1	SPUN ALUMINUM	EXHAUST AIR	10"ø	[250]	300	[140]	0.1	[25]	ELECTRIC	---
1001-IH-2	ADMIN	1001-ERV-2	SPUN ALUMINUM	OUTSIDE AIR INTAKE	12"ø	[300]	600	[280]	0.1	[25]	ELECTRIC	---
1001-EH-2	ADMIN	1001-ERV-2	SPUN ALUMINUM	EXHAUST AIR	12"ø	[300]	600	[280]	0.1	[25]	ELECTRIC	---

AIR FILTER SCHEDULE

MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	MERV RATING	AIR FLOW		APD				HOUSING TYPE	CARTRIDGES			ARRANGEMENT	REMARKS
							INITIAL		CHANGEOVER			#	SIZE			
					CFM	[L/s]	IN	[mm]	IN	[mm]			IN	[mm]		
1001-PF-1	MECH	ADMINISTRATION	1001-AHU-1	8	1750	[830]	0.1	[3]	0.25	[6]	SIDE	1	22 x 20 x 1	[550 x 500 x 25]	1 WIDE BY 1 HIGH	-----
1001-PF-2	LOBBY	ADMINISTRATION	1001-AHU-2	8	900	[420]	0.1	[3]	0.25	[6]	SIDE	1	20 x 20x 1	[500 x500 x 25]	1 WIDE BY 1 HIGH	----
1001-PF-3	JAN	ADMINISTRATION	1001-AHU-3	8	600	[280]	0.1	[3]	0.25	[6]	SIDE	1	16 x 20 x 1	[400 x 500 x 25]	1 WIDE BY 1 HIGH	----
1001-PF-4	MECH	ADMINISTRATION	1001-ERV-1	8	600	[280]	0.1	[3]	0.25	[6]	SIDE	1	14 x 20 x 2	[350 x 500 x 50]	1 WIDE BY 1 HIGH	----
1001-PF-5	MECH	ADMINISTRATION	1001-ERV-1	8	600	[280]	0.1	[3]	0.25	[6]	SIDE	1	14 x 20 x 2	[350 x 500 x 50]	1 WIDE BY 1 HIGH	----
1001-PF-6	JAN	ADMINISTRATION	1001-ERV-2	8	600	[280]	0.1	[3]	0.25	[6]	SIDE	1	20 x 20 x 2	[500 x 500 x 50]	1 WIDE BY 1 HIGH	----
1001-PF-7	JAN	ADMINISTRATION	1001-ERV-2	8	600	[280]	0.1	[3]	0.25	[6]	SIDE	1	20 x 20 x 2	[500 x 500 x 50]	1 WIDE BY 1 HIGH	----

AIR DEVICE SCHEDULE (SUPPLY)

MARK	TYPE	AIR FLOW				MAX APD		MOUNTING	PANEL/FRAME SIZE		NECK SIZE		NC	DAMPER	FINISH	REMARKS
		MIN		MAX					IN x IN	[mm x mm]	IN	[mm]				
		CFM	[L/s]	CFM	[L/s]	IN WG	[Pa]									
SD-1	ROUND PLAGUE FACE	50	[24]	160	[76]	0.080	[20]	CEILING	13"DIA	[325 DIA]	6 ø	[152 ø]	17	NONE	WHITE	---
SD-2	ROUND PLAGUE FACE	160	[76]	300	[140]	0.080	[20]	CEILING	18"DIA	[325 DIA]	8 ø	[200 ø]	17	NONE	WHITE	---
SD-3	SUPPLY REGISTER	200	[94]	500	[240]	0.100	[25]	WALL	14 x 12	[356 x 305]	12 x 10	[305 x 254]	26	NONE	WHITE	---

AIR DEVICE SCHEDULE (RETURN)

MARK	TYPE	AIR FLOW				MAX APD		MOUNTING	PANEL/FRAME SIZE		NECK SIZE		NC	DAMPER	FINISH	REMARKS
		MIN		MAX					IN x IN	[mm x mm]	IN x IN	[mm x mm]				
		CFM	[L/s]	CFM	[L/s]	IN WG	[Pa]									
RG-1	PERFORATED	100	[47]	1000	[470]	0.088	22.000	CEILING	24 x 24	[600 x 600]	18x18	[375x375]	20	NONE	WHITE	NOTE 1
EG-1	ROUND PLAGUE FACE	50	[24]	250	[120]	0.088	22.000	CEILING	18"DIA	[450 DIA]	8"DIA	[200 DIA]	20	NONE	WHITE	-----

NOTE
1. REFER TO DETAIL 2/H-1001-5.1

BID DOCUMENTS 7/1/2011

Revisions	Date

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NATIONAL CEMETERY ADMINISTRATION

Drawing Title: ADMINISTRATION BLDG HVAC SCHEDULES
Project Title: REPLACE ADMINISTRATION AND MAINTENANCE BUILDING AND SITE IMPROVEMENTS
Date: 7-1-2011
Project No.: 906CM3009
Approved: Director, Office of Construction Management
Building Number: 1001
Checked: DavBod
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