AIR HANDLING UNIT SCHEDULE

DESIG.	LOCATION	SERVICE	GENERAL: TOTAL CFM MAX	TOTAL CFM MIN	MIN. OA (CFM)	EXT./TOTAL STATIC PRESSURE (IN. W.G.)	FANS (SEE FAN SCHEDULE FOR DUTIES)	COOLING COIL (NOTE 1): TOTAL/ SENS. CAP. (MBH)	MIN. ROWS/ MAX. FINS PER IN.	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	APPROX SIZE (SQ. FT.)	MAX FACE VEL. (FPM)	MAX AIR PD (IN W.G.)	EWT (°F)	LWT (°F)	GPM PER COIL/ TOTAL	MAX. WPD (FT. W.G.)	HEATING COIL (NOTE 2): CFM	DUTY	SIZE	TOTAL CAP. (MBH)	MIN. ROWS/ MAX.FINS PER IN.	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	FACE VEL. (FPM)	MAX AIR PD (IN W.G.)	EWT (°F)	LWT (°F)	GPM PER COIL/ TOTAL	MAX. WPD (FT. W.G.)	REMARKS
AHU-1	PENTHOUSE	FIRST FLOOR	6200	1900	750	1.25 / 3.13	SF-1, RF-1	286 / 194	6 / 12	81	67	51.9	51.2	12.4	500	1.01	45	55	57.2	12.4	6200	PREHEAT	12.4	270.5	1 / 12	48.5	-	87.4	-	500	0.07	180	160	28.4	13.4	YORK - SOLUTION

NOTES:
1. CHILLED WATER COOLING COIL BANK CONSISTS OF ONE(1) COIL, (51" WIDE x 35" HIGH).
2. HEATING COIL BANK CONSISTS OF ONE (1) COIL, (51" WIDE x 35" HIGH). PROVIDE 30% PROPYLENE GLYCOL HEATING HOT WATER.
3. REFER TO AUTOMATIC TEMPERATURE CONTROL DIAGRAMS FOR ALL ADDITIONAL REQUIREMENTS.
4. PROVIDE MIXING BOX, FILTER SECTION, AIR BLENDER, HEATING HOT WATER PREHEAT COIL, CHILLED WATER COOLING COIL, AND SUPPLY AIR FAN SECTION.

DEDICATED OUTDOOR AIR UNIT WITH ENERGY RECOVERY SCHEDULE

DESIG.	DESIGN CONDITIONS	SUPPLY: CFM	ESP	HP	EAT °F DB	EAT °F WB	LAT °F DB	LAT °F WB	COOLING AND HEATING COIL: GPM	EWT °F	LWT °F	EAT °F DB	EAT °F WB	LAT °F DB	LAT °F WB	EXHAUST: CFM	ESP	HP	EAT °F	RH %	LOAD TRANSFER BTU/HR	ELECTRICAL V/PH/HZ	MCA	MOCP	MAX UNIT WEIGHT (LBS)	MANUFACTURER
DOAS-1	SUMMER	2500	1.25	5	95	76	80	68	30	45	55	80.3	-	55.2	-	2500	1.25	5	75	50	72,450	208/1/60	42	50	2172	RENEWAIRE - RD4XRT
	WINTER				8	5	54	43	12.3	180	160	8	-	73	-				70	35	157,500					

NOTES:
1. PROVIDE INTEGRATION WITH VARIABLE REFRIGERANT FLOW SYSTEM.
2. HEATING HOT WATER SHALL BE 30% PROPYLENE GLYCOL.
3. REFER TO DETAILS FOR ADDITIONAL REQUIREMENTS. PROVIDE ALL APPURTENANCES FOR THE CHILLED WATER COOILING COIL AND HEATING HOT WATER PREHEAT COIL WITHIN THE PENTHOU

IMC Ventilation Table

System	AHU-1 (Single Zone System)												
Room	Description	Area Ft2 AZ	Area Outdoor Air Rate Per IMC Table 403.3 RA	Area Outdoor RaAz	Occupant Load Rate Per IMC Table 403.3 (People/ 1000 ft2)	Occupancy C * F/1000 PZ	Occupant Outdoor Air Rate Per Table 403.3 Rp	Occupant Outdoor Air RpPz	Breathing Zone Outdoor Air Vbz= RpPz + RaAz	Zone Air Distribution Effectiveness Ez	Zone Outdoor Air Voz=Vbz/ Ez	Supply Air Design Vpz	Outdoor Air Fraction Zp=Voz/ Vpz
MEETING	Meeting Room	2400	0.06	144	50	120	5	600	744	1	744	6200	0.12
Totals		2400		144		120			744		744	6200	
									Total Required Outdoor Air			Total Outdoor Air Provided	
System Ventilation Efficiency:	1	Max Zp=	0.12						744.00			750.00	
(IMC 2012 Table 403.3.2.3.2)									Percentage of outdoor Air			Percentage of outdoor Air	
										12.0%			12.1%

VARIABLE REFRIGERANT FLOW AIR HANDLING UNIT SCHEDULE

DESIG.	COOLING MBH TC	COOLING MBH SC	HEATING MBH @ 0°F	SF KW CONSUMP.	STYLE	ELECTRICAL V/PH/HZ	ELECTRICAL MCA	CONNECTED TO HP	CONNECTED TO BCC	REMARKS	MANUFACTURER	MODEL
AHU-2	8	6	6	0.2	CEILING	208/1/60	1	1	1A	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-3	8	6	6	0.2	CEILING	208/1/60	1	1	1A	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-4	8	6	6	0.2	CEILING	208/1/60	1	1	1A	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-5	12	9	9	0.2	DUCTED	208/1/60	1	1	1A	1,2,3,4	MITSUBISHI	PEFY-P12NMAU-E
AHU-6	8	6	6	0.2	CEILING	208/1/60	1	1	1A	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-7A	8	6	6	0.2	CEILING	208/1/60	1	1	1A	1,2,3,4,5	MITSUBISHI	PLFY-P08NCMU-E
AHU-7B	8	6	6	0.2	CEILING	208/1/60	1	1	1A	1,2,3,4,5	MITSUBISHI	PLFY-P08NCMU-E
AHU-8	8	6	6	0.2	CEILING	208/1/60	1	1	1A	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-9	8	6	6	0.2	CEILING	208/1/60	1	1	1A	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-10	8	6	6	0.2	CEILING	208/1/60	1	1	1A	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-11	8	6	6	0.2	CEILING	208/1/60	1	1	1A	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-12A	8	6	6	0.2	CEILING	208/1/60	1	1	1A	1,2,3,4,6	MITSUBISHI	PLFY-P08NCMU-E
AHU-12B	8	6	6	0.2	CEILING	208/1/60	1	1	1A	1,2,3,4,6	MITSUBISHI	PLFY-P08NCMU-E
AHU-13	30	22	22	0.2	DUCTED	208/1/60	1	1	1A	1,2,3,4	MITSUBISHI	PEFY-P30NMHU-E
AHU-14	8	6	6	0.2	CEILING	208/1/60	1	1	1B	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-15	15	11	11	0.2	CEILING	208/1/60	1	1	1B	1,2,3,4	MITSUBISHI	PLFY-P15NCMU-E
AHU-16	8	6	6	0.2	CEILING	208/1/60	1	1	1B	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-17	8	6	6	0.2	CEILING	208/1/60	1	1	1B	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-18	36	27	27	0.2	DUCTED	208/1/60	1	1	1B	1,2,3,4	MITSUBISHI	PEFY-P36NMHU-E
AHU-19A	8	6	6	0.2	CEILING	208/1/60	1	1	1B	1,2,3,4,7	MITSUBISHI	PLFY-P08NCMU-E
AHU-19B	8	6	6	0.2	CEILING	208/1/60	1	1	1B	1,2,3,4,7	MITSUBISHI	PLFY-P08NCMU-E
AHU-20	8	6	6	0.2	CEILING	208/1/60	1	2	2B	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-21	8	6	6	0.2	CEILING	208/1/60	1	2	2B	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-22	8	6	6	0.2	CEILING	208/1/60	1	2	2B	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-23	8	6	6	0.2	CEILING	208/1/60	1	2	2B	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-24	8	6	6	0.2	CEILING	208/1/60	1	2	2B	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-25	8	6	6	0.2	CEILING	208/1/60	1	2	2A	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-26	8	6	6	0.2	CEILING	208/1/60	1	2	2A	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-27	8	6	6	0.2	CEILING	208/1/60	1	2	2A	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-28	8	6	6	0.2	CEILING	208/1/60	1	2	2A	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-29	8	6	6	0.2	CEILING	208/1/60	1	2	2A	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-30	8	6	6	0.2	CEILING	208/1/60	1	2	2A	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-31	8	6	6	0.2	CEILING	208/1/60	1	2	2A	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-32	8	6	6	0.2	CEILING	208/1/60	1	2	2A	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-33A	15	11	11	0.2	CEILING	208/1/60	1	2	2A	1,2,3,4,8	MITSUBISHI	PLFY-P15NCMU-E
AHU-33B	15	11	11	0.2	CEILING	208/1/60	1	2	2A	1,2,3,4,8	MITSUBISHI	PLFY-P15NCMU-E
AHU-33C	12	9	9	0.2	CEILING	208/1/60	1	2	2A	1,2,3,4,8	MITSUBISHI	PLFY-P12NCMU-E
AHU-33D	15	11	11	0.2	CEILING	208/1/60	1	2	2A	1,2,3,4,8	MITSUBISHI	PLFY-P15NCMU-E
AHU-34A	12	9	9	0.2	CEILING	208/1/60	1	2	2A	1,2,3,4,9	MITSUBISHI	PLFY-P12NCMU-E
AHU-34B	12	9	9	0.2	CEILING	208/1/60	1	2	2A	1,2,3,4,9	MITSUBISHI	PLFY-P12NCMU-E
AHU-35	8	6	6	0.2	CEILING	208/1/60	1	2	2B	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-36	8	6	6	0.2	CEILING	208/1/60	1	2	2B	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-37	8	6	6	0.2	CEILING	208/1/60	1	2	2B	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-38	8	6	6	0.2	CEILING	208/1/60	1	2	2B	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-39	8	6	6	0.2	CEILING	208/1/60	1	2	2B	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-40	8	6	6	0.2	CEILING	208/1/60	1	2	2B	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-41	15	11	11	0.2	CEILING	208/1/60	1	2	2B	1,2,3,4	MITSUBISHI	PLFY-P15NCMU-E
AHU-42A	8	6	6	0.2	CEILING	208/1/60	1	2	2B	1,2,3,4,10	MITSUBISHI	PLFY-P08NCMU-E
AHU-42B	8	6	6	0.2	CEILING	208/1/60	1	2	2B	1,2,3,4,10	MITSUBISHI	PLFY-P08NCMU-E
AHU-43	12	9	9	0.2	CEILING	208/1/60	1	2	2B	1,2,3,4	MITSUBISHI	PLFY-P12NCMU-E

NOTES:
1. U.L. LISTED
2. WALL MNT. T'STAT
3. WASHABLE FILTER
4. B.I. CONDENSATE PUMP
5. WALL MNT. T'STAT - 7A & 7B ARE CONTROLLED BY THE SAME T'STAT
6. WALL MNT. T'STAT - 12A & 12B ARE CONTROLLED BY THE SAME T'STAT
7. WALL MNT. T'STAT - 19A & 19B ARE CONTROLLED BY THE SAME T'STAT
8. WALL MNT. T'STAT - 33A, 33B, 33C, & 33D ARE CONTROLLED BY THE SAME T'STAT
9. WALL MNT. T'STAT - 34A & 34B ARE CONTROLLED BY THE SAME T'STAT
10. WALL MNT. T'STAT - 42A & 42B ARE CONTROLLED BY THE SAME T'STAT

VARIABLE REFRIGERANT FLOW HEAT PUMP OUTDOOR UNIT SCHEDULE

DESIG.	COOLING TC MBH @ 95°F	HEATING TC MBH @ 47°F	HEATING TC MBH @ 0°F	ELECTRICAL V/PH/HZ	MCA	MOCP	APPROX. UNIT WEIGHT (lbs)	REMARKS	MANUFACTURER	MODEL
VRF-1	192	215	215	208/3/60	60/54	80/80	1105	1,2,3,4	MITSUBISHI	PURY-HP192TSKMU-A-H
VRF-2	192	215	215	208/3/60	60/54	80/80	1105	1,2,3,4	MITSUBISHI	PURY-HP192TSKMU-A-H

NOTES:
1. UL LISTED
2. SNOW SENSOR
3. DUAL SOURCE POWER
4. LOW AMBIENT CONTROL TO 0°F

IMC Ventilation Table

System	DOAS-1 (Dedicated Outdoor Air Unit for VRF Zones)										
Room	Description	Area Ft2 AZ	Area Outdoor Air Rate Per IMC Table 403.3 RA	Area Outdoor RaAz	Occupant Load Rate Per IMC Table 403.3 (People/ 1000 ft2)	Occupancy C * F/1000 PZ	Occupant Outdoor Air Rate Per Table 403.3 Rp	Occupant Outdoor Air RpPz	Breathing Zone Outdoor Air Vbz= RpPz + RaAz	Zone Air Distribution Effectiveness Ez	Zone Outdoor Air Voz=Vbz/ Ez	Supply Air Design Vpz
LOBBY	Lobby	177	0.06	10.62	10	1.77	5	8.85	19.47	1	19.47	50
CONF RM	Conference	165	0.06	9.9	5	0.825	5	4.125	14.025	1	14.025	50
RECEPTION	Reception	550	0.06	33	30	16.5	5	82.5	115.5	1	115.5	120
VIDEO MEDIA	Office	180	0.06	10.8	5	0.9	5	4.5	15.3	1	15.3	50
LUNCH ROOM	Break Room	525	0.12	63	25	13.125	5	65.625	128.625	1	128.625	130
COMMIS	Office	100	0.06	6	5	0.5	5	2.5	8.5	1	8.5	50
COMMIS	Office	100	0.06	6	5	0.5	5	2.5	8.5	1	8.5	50
COMMIS PRES	Office	160	0.06	9.6	5	0.8	5	4	13.6	1	13.6	50
COMMIS	Office	85	0.06	5.1	5	0.425	5	2.125	7.225	1	7.225	50
COMMIS	Office	85	0.06	5.1	5	0.425	5	2.125	7.225	1	7.225	50
CNTY ADMIN	Office	220	0.06	13.2	5	1.1	5	5.5	18.7	1	18.7	50
ASST ADMIN	Office	130	0.06	7.8	5	0.65	5	3.25	11.05	1	11.05	50
CNTY CLERK	Office	420	0.06	25.2	5	2.1	5	10.5	35.7	1	35.7	50
COPIER RM	Office	100	0.06	6	5	0.5	5	2.5	8.5	1	8.5	50
LAW LIBRARY	Office	640	0.06	38.4	5	3.2	5	16	54.4	1	54.4	55
CNTY ATTY	Office	200	0.06	12	5	1	5	5	17	1	17	50
DPTY ATTY	Office	170	0.06	10.2	5	0.85	5	4.25	14.45	1	14.45	50
ASST ATTY	Office	170	0.06	10.2	5	0.85	5	4.25	14.45	1	14.45	50
LEGAL ASST	Office	175	0.06	10.5	5	0.875	5	4.375	14.875	1	14.875	50
SECURITY POST	Reception	1000	0.06	60	30	30	5	150	210	1	210	225
MAIL ROOM	Office	345	0.06	20.7	5	1.725	5	8.625	29.325	1	29.325	50
CORRIDOR	Corridor	800	0.06	48	0	0	0	0	48	1	48	50
LOBBY	Lobby	700	0.06	42	10	7	5	35	77	1	77	80
OFFICE	Office	110	0.06	6.6	5	0.55	5	2.75	9.35	1	9.35	50
OFFICE	Office	135	0.06	8.1	5	0.675	5	3.375	11.475	1	11.475	50
OFFICE	Office	235	0.06	14.1	5	1.175	5	5.875	19.975	1	19.975	50
OFFICE	Office	150	0.06	9	5	0.75	5	3.75	12.75	1	12.75	50
OFFICE	Office	200	0.06	12	5	1	5	5	17	1	17	50
OFFICE	Office	150	0.06	9	5	0.75	5	3.75	12.75	1	12.75	50
OFFICE	Office	160	0.06	9.6	5	0.8	5	4	13.6	1	13.6	50
KITCHENETTE	Break Room	110	0.06	6.6	50	5.5	5	27.5	34.1	1	34.1	50
CONF RM	Conference	400	0.06	24	50	20	5	100	124	1	124	125
OFFICE	Office	190	0.06	11.4	5	0.95	5	4.75	16.15	1	16.15	50
OFFICE	Office	135	0.06	8.1	5	0.675	5	3.375	11.475	1	11.475	50
OFFICE	Office	135	0.06	8.1	5	0.675	5	3.375	11.475	1	11.475	50
OPEN OFFICE	Office	720	0.06	43.2	5	3.6	5	18	61.2	1	61.2	65
BASEMENT OFFICES	Office	2600	0.06	156	5	13	5	65	221	1	221	250
Totals		12627		789.12		135.72			1467.72		1467.72	2500
									Total Required Outdoor Air		Total Outdoor Air Provided	
System Ventilation Efficiency:	1	Max Zp=	1						1,467.72		2,500.00	
(IMC 2012 Table 403.3.2.3.2)									Percentage of Outdoor Air		Percentage of Outdoor Air	
										58.7%		100.0%

FAN SCHEDULE

DESIG.	SERVICE	AIR FLOW (CFM) MAX.	AIR FLOW (CFM) MIN.	E.S.P. (INCHES W.G.)	FAN RPM	DRIVE TYPE	HP / WATTS	VOLT/PHASE HZ	NOTES	MANUFACTUER
SF-1	AHU-1 SUPPLY AIR	6200	1900	1.25	2250	BELT	7.5 HP	208V/3Ø/60HZ	1	YORK - DWDI - AF- 15x15
RF-1	AHU-1 RETURN AIR	5450	1150	1.25	3500	DIRECT	5 HP	208V/3Ø/60HZ	2	GREENHECK - AX-47-190
EF-1	1512 MEN	240	240	0.375	1150	DIRECT	166 W	120V/1Ø/60HZ	3,4,5	SOLER & PALAU - FF250
EF-2	1513 WOMEN	240	240	0.375	1150	DIRECT	166 W	120V/1Ø/60HZ	3,4,5	SOLER & PALAU - FF250

NOTES:
1. FAN SUPPLIED WITH AIR HANDLING UNIT AND VFD.
2. INTEGRATE INLINE RETURN FAN WITH AHU-1 CONTROLS. PROVIDE VFD FOR FAN (ABB MODEL: ACH550, WITH BYPASS AND INTEGRAL DISCONNECT).
3. PROVIDE BACKDRAFT DAMPER.
4. PROVIDE ISOLATION KIT.
5. PROVIDE FAN SPEED CONTROL.

PUMP SCHEDULE

DESIG.	LOCATION	SERVICE	CAPACITY (GPM)	HEAD (FT. W.G.)	MOTOR HP	VOLT/PHASE HZ	REMARKS
P-1	PENTHOUSE	HEATING HOT WATER	55	40	1.5	208V/1Ø/60HZ	BELL & GOSSETT SERIES 1510
P-2	PENTHOUSE	AHU-1 PREHEAT	30	20	0.25	208V/1Ø/60HZ	BELL & GOSSETT SERIES 60
P-3	PENTHOUSE	DOAS-1 PREHEAT	25	25	0.25	208V/1Ø/60HZ	BELL & GOSSETT SERIES 60

NOTES:
1. HEATING HOT WATER SHALL BE 30% PROPYLENE GLYCOL.

EXPANSION TANK

DESIG.	LOCATION	SERVICE	TANK VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	FILL PRESSURE (PSIG)	RELIEF VALVE SETTING (IN)	REMARKS
ET-1	PENTHOUSE	HEATING HOT WATER	8	5	40	150	TACO - PAX-30

STEAM - TO - WATER CONVERTER SCHEDULE

DESIG.	SERVICE	HEATING CAPACITY MBH	HEATING CAPACITY GPM	HEATING CAPACITY EWT (°F)	HEATING CAPACITY LWT (°F)	CONTROL VALVE (LBS/HR)	TRAP (LBS/HR)	STEAM PRESSURE ENTERING SHELL (PSIG)	REMARKS
C-1	HEATING HOT WATER	460	55.0	160	180	550	1650	5.0	TACO - E10206S

NOTES:
1. HEATING HOT WATER SHALL BE 30% PROPYLENE GLYCOL.

BRANCH CIRCUIT CONTROLLER SCHEDULE

DESIG.	BRANCH NUMBERS	VOLTAGE	MCA	MOCP	APPROX. UNIT WEIGHT (LBS)	REMARKS	MANUFACTURER	MODEL
BCC-1A	16	208V/1Ø/60HZ	2	15	180	U.L., MAIN	MITSUBISHI	CMB-P1016NU-GA
BCC-1B	8	208V/1Ø/60HZ	1	15	100	U.L., SUB	MITSUBISHI	CMB-P108NU-GB
BCC-2A	16	208V/1Ø/60HZ	2	15	180	U.L., MAIN	MITSUBISHI	CMB-P1016NU-GA
BCC-2B	8	208V/1Ø/60HZ	1	15	100	U.L., SUB	MITSUBISHI	CMB-P108NU-GB
BCC-2C	16	208V/1Ø/60HZ	2	15	180	U.L., SUB	MITSUBISHI	CMB-P1016NU-HB

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Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No:45511 Expiration Date: 06/03/2016

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BFM No. 14028 WASH. CO. ADMINISTRATION COMPLEX
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BID DOCUMENTS

SCHEDULES – HVAC

M2.4

10 OF 12 SHEETS

DATE : 08.15.14