

three inches = one foot

one and one half inches = one foot

one inch = one foot

one inch = one foot

three quarters inch = one foot

one half inch = one foot

one half inch = one foot

three eighths inch = one foot

one quarter inch = one foot

one eighth inch = one foot

one eighth inch = one foot

AIR HANDLING UNIT SCHEDULE																		
MARK	LOCATION	AREA AND/OR ROOM SERVED	TYPE	AIRFLOW	AIRFLOW		SUPPLY FAN MARK	RETURN OR RELIEF FAN MARK	EXHAUST FAN MARK	PRE-FILTER-1 MARK	PRE-FILTER-2 MARK	AFTER FILTER MARK	HEAT RECOVERY MARK	PREHEAT COIL MARK	COOLING COIL MARK	REHEAT COIL MARK	HUMIDIFIER MARK	REMARKS
					SUPPLY	MIN OA												
AHU-3	BLDG 1 - MER #2	LABS	MODULAR INDOOR	VAV	14,565 CFM	7,510 CFM	1-SF-3A	1-RF-3B	-	PF-1-3	PF-2-3	AF-3	-	SHC-3	CWCC-3	-	SH-3	1, 2, 6
AHU-14	BLDG 1 - ROOF	ICU	MODULAR ROOFTOP	VAV	9,000 CFM	2,900 CFM	SF-14	RF-14	-	PF-1-14	PF-2-14	AF-14	-	HWHC-14	CWCC-14	-	SH-14	1, 2, 6
AHU-34	BLDG 3 - 4TH FLOOR MER	AUDITORIUM	MODULAR INDOOR	CAV	7,500 CFM	690 CFM	SF-34	RF-34	-	PF-1-34	PF-2-34	-	-	SHC-34	CWCC-34	-	-	1, 2, 3, 4, 5, 6

NOTES:

- SUPPLY FANS SHALL BE ABLE TO DELIVER 105% OF THE AIRFLOW SCHEDULED.
- UNITS SHALL BE ABLE TO FIT IN THE AREAS SHOWN ON PLANS.
- PROVIDE WITH AUXILIARY DRIP PAN WITH WATER DETECTION SENSOR. PAN SHALL BE CONSTRUCTED OF SEAMLESS STAINLESS STEEL, CORNER-WELDED AND SHALL BE TESTED AFTER INSTALLATION.
- MOUNT AHU ON VIBRATION ISOLATORS.
- PROVIDE WITH CO2 SENSOR AND TEMPERATURE SENSOR WITH OCCUPANCY OVERRIDE.
- PROVIDE NECESSARY VERTICAL CLEARANCE TO ACCOMMODATE MANUFACTURER'S RECOMMENDED DRAIN PIPE TRAP SIZING.

FAN SCHEDULE																			
MARK	LOCATION	AREA AND/OR ROOM SERVED	SERVICE	AIRFLOW	TYPE - FAN	ESP	WHEEL	CLASS	ARRANGEMENT, ROTATION, AND DISCHARGE	MIN % EFF	DRIVE	FAN MAX RPM	BHP	HP (W)	PHASE	VOLT	R.P.M.	SPEED CONTROL	REMARKS
1-SF-3A	BLDG 1 - MER #2	LABS	SUPPLY	14,600 CFM	HOUSED	5 in-wg	AIRFOIL		FRONT TOP DISCHARGE	94.1%	BELT	2549	27.98 hp	30 hp	3	208 V	1800	VARIABLE	1, 2, 3, 4
1-RF-3B	BLDG 1 - MER #2	LABS	RETURN/RELE IF	10,500 CFM	INLINE CENT	1.5 in-wg	AIRFOIL		INLINE, HORIZ.		BELT	706	6.30 hp	7-1/2 hp	3	208 V	1725	VARIABLE	1, 2, 3, 4
SF-14	BLDG 1 - ROOF	ICU	SUPPLY	9,000 CFM	HOUSED	5.5 in-wg	AIRFOIL		FRONT TOP DISCHARGE	93.0%	BELT	2427	12.99 hp	15 hp	3	480 V	1800	VARIABLE	1, 2, 3, 4
RF-14	BLDG 1 - ROOF	ICU	RETURN/RELE IF	6,100 CFM	HOUSED	2 in-wg	AIRFOIL		FRONT TOP DISCHARGE	91.7%	BELT	2123	8.94 hp	10 hp	3	480 V	1800	VARIABLE	1, 2, 3, 4
SF-34	BLDG 3 - 4TH FLOOR MER	AUDITORIUM	SUPPLY	7,500 CFM	HOUSED	1.9 in-wg	AIRFOIL		TOP FRONT DISCHARGE	91.7%	BELT	2490	8.36 hp	10 hp	3	208 V	1800	CONSTANT	1, 2, 3, 4
RF-34	BLDG 3 - 4TH FLOOR MER	AUDITORIUM	RETURN/RELE IF	7,500 CFM	INLINE CENT	0.3 in-wg	BIW		ARR 9, INLINE, HORIZ.		BELT	522	1.09 hp	1-1/2 hp	3	208 V	1725	CONSTANT	1, 2, 3, 4
EF-1	BLDG 1 - ROOF	2301 PATIENT ROOM	EXHAUST	420 CFM	UTILITY SET	1.875 in-wg	BIW		ARR 10, CW BAU		BELT	2254	0.33 hp	1/3 hp	1	120 V	1725	CONSTANT	1, 2, 3
EF-4	BLDG 1 - ROOF	2310 PATIENT ROOM	EXHAUST	460 CFM	UTILITY SET	1.875 in-wg	BIW		ARR 10, CW BAU		BELT	2264	0.34 hp	1/2 hp	1	120 V	1725	CONSTANT	1, 2, 3

NOTES:

- INSTALL ALL FANS PER MANUFACTURER'S RECOMMENDATIONS.
- ALL VARIABLE SPEED FANS SHALL BE SUPPLIED WITH A VSMC. VSMC'S OPERATING EQUIPMENT LOCATED ON THE ROOF SHALL BE MOUNTED INSIDE EITHER THE MECHANICAL OR ELECTRICAL ROOMS. ELECTRICAL CONTRACTOR SHALL INSTALL THE VSMC SUPPLIED BY THE MECHANICAL CONTRACTOR.
- SUPPLY FANS SHALL BE ABLE TO DELIVER 105% OF THE AIRFLOW SCHEDULED.
- PROVIDE WITH SYNCHRONOUS BELTS.

STEAM HEATING COIL SCHEDULE																
MARK	LOCATION	AREA AND/OR ROOM SERVED	SYSTEM AIR HANDLING	APPLICATION	AIRFLOW	MAX FACE VELOCITY	APD	TEMPERATURES		TOTAL MIN CAPACITY	STEAM ENT. CONT VALVE	STEAM ENT. COIL	STEAM FLOW LBS/HR	STEAM TRAP MARK	STEAM TRAP LBS/HR	REMARKS
								EAT	LAT							
SHC-3	BLDG 1 - MER #2	LABS	AHU-3	PREHEAT	12,000 CFM	440 FPM	0.06 in-wg	20 °F	40 °F	231,200 Btu/h	22 psig	15 psig	260	1-ST-3	520	
SHC-34	BLDG 3 - 4TH FLOOR MER	AUDITORIUM	AHU-34	PREHEAT	7,500 CFM	550 FPM	0.09 in-wg	60 °F	92 °F	253,100 Btu/h	10 psig	5 psig	285	1-ST-34	570	

STEAM HUMIDIFIER DISPERSION TUBE SCHEDULE												
MARK	LOCATION	AREA AND/OR ROOM SERVED	SYSTEM AIR HANDLING	TYPE	AIRFLOW	# OF MANIFOLDS	EAT	LAT	DEWPOINT	DEWPOINT	SOURCE	REMARKS
SH-3	BLDG 1 - MER #2	LABS	AHU-3	UNIT-MOUNTED	12,000 CFM	4	55 °F	54 °F	53 °F	37.2	CSG-3	
SH-14	BLDG 1 - ROOF	ICU	AHU-14	UNIT-MOUNTED	9,000 CFM	2	55 °F	54 °F	53 °F	37.2	CSG-14	

NOTES:

- PROVIDE CLEAN STEAM GENERATOR MANUFACTURER'S RECOMMENDED DISPERSION TUBE ASSEMBLIES.

CLEAN STEAM GENERATOR SCHEDULE																
MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	TYPE	SOURCE OF MAKEUP	WATER CONDITIONS		PRODUCED STEAM FLOW	PRODUCED STEAM PRESSURE	STEAM PRESSURE		CONTROL VALVE	TRAP			REMARKS
						FLOW	EWT			ENT. CONTROL	ENT. HEAT EXCHANGER		MARK	#	CAPACITY	
CSG-3	BLDG 1 - MER #2	LAB	AHU-3	STEAM TO STEAM	TAP WATER	0.35 GPM	50 °F	135 LBS/HR	15 PSI	23 PSI	15 PSI	Y	2-ST-3	1	185 LBS/HR	---
CSG-14	BLDG 1 - ROOF	ICU	AHU-14	STEAM TO STEAM	TAP WATER	0.35 GPM	50 °F	50 LBS/HR	15 PSI	23 PSI	15 PSI	Y	1-ST-14	1	75 LBS/HR	1

NOTES:

- PROVIDE WITH HEATED OUTDOOR ENCLOSURE. ALL EXTERIOR STEAM AND WATER SUPPLY PIPING SHALL BE HEAT TRACED.
- REFER TO 41M-502 FOR CONTROLS REQUIREMENTS.

AIR COOLED CHILLER SCHEDULE																							
MARK	LOCATION	AREA AND/OR BLDG SERVED	TYPE	CAPACITY	# OF COMP	MAX KW/TON	MIN COP	MAX IPLV (KW/TON)	EVAPORATOR					CONDENSOR AMBIENT OA TEMP	ELECTRICAL							REMARKS	
									FLOW	EWT	LWT	MAX WPD	FOULING FACTOR		COMPRESSOR MOTOR			CONDENSER FAN MOTORS					
															# COMP	HP	PHASE	VOLT	# FANS	NOMINAL HP	PHASE	VOLT	
ACCU-1	BLDG 1 - ROOF	ICU	SCROLL	40 TONS	4	1.1375	9.9 EER	13.8 EER	56.7 GPM	58 °F	42 °F	7.10 in-wg	0.0001	95 °F	4	40.3 kW	3	480 V	4	10	3	460 V	

LOUVER SCHEDULE								
MARK	LOCATION	AREA AND/OR ROOM SERVED	TYPE	SIZE	AIRFLOW	APD	MOUNTING	APPLICATION
LV-3	MER-2	AHU-3	DRAINABLE	13' 7" x 10' 10"	20,400 CFM	0.02 in-wg	WALL	OUTDOOR AIR
LV-34	FOURTH FLOOR MER	AHU-34	DRAINABLE	4' 0" x 6' 0"	7,500 CFM	0.02 in-wg	WALL	OUTDOOR AIR

STEAM TRAP SCHEDULE								
MARK	LOCATION	SYSTEM AND/OR SERVICE	CAPACITY AT MIN. DIFF. PRESSURE	MIN. DIFF. PRESSURE	MIN. INLET PRESSURE	TRAP TYPE	TRAP SIZE	REMARKS
1-ST-3	AHU-3	AHU-3 PRE-HEAT COIL	520 LBS/HR	1/2 PSI	15 PSI	F&T	1 1/2"	---
2-ST-3	CSG-3	CSG-3 #1	185 LBS/HR	1/2 PSI	15 PSI	F&T	3/4"	---
3-ST-3	CSG-3 DRIP LEG	CSG-3 #2	5 LBS/HR	15 PSI	15 PSI	IB	1/2"	---
1-ST-14	CSG-14	CSG-14 #1	75 LBS/HR	1/2 PSI	15 PSI	F&T	3/4"	---
2-ST-14	CSG DRIP LEG	CSG-14 #2	5 LBS/HR	15 PSI	15 PSI	IB	1/2"	---
1-ST-34	AHU-34	AHU-34 PRE-HEAT COIL	570 LBS/HR	1/2 PSI	5 PSI	F&T	1 1/4"	---

HOT WATER HEATING COIL SCHEDULE												
MARK	LOCATION	AREA SERVED	SYSTEM AIR HANDLING	AIRFLOW	MAX FACE VELOCITY	APD	TEMPERATURES	TOTAL CAPACITY	FLOW	EW	LWT	WPD (FT HD)
HWHC-14	BLDG 1 - ROOF	ICU	AHU-14	9,000 CFM	500 FPM	0.12 in-wg	45 °F	335,290 Btu/h	33 GPM	180 °F	160 °F	1.33 psi

CHILLED WATER COOLING COIL SCHEDULE																		
MARK	LOCATION	AREA AND/OR ROOM SERVED	SYSTEM AIR HANDLING	AIRFLOW	MAX FACE VELOCITY	APD	EAT		LAT		TOTAL CAPACITY	SENSIBLE CAPACITY	FLOW	CHILLED WATER				REMARKS
							DB	WB	DB	WB				EW	LWT	WPD (FT HD)		
CWCC-3	BLDG 1 - MER #2	LABS	AHU-3	14,565 CFM	490 FPM	0.66 in-wg	89 °F	72 °F	55 °F	54 °F	819,420 Btu/h	539,690 Btu/h	102 GPM	42 °F	58 °F	12.92		
CWCC-14	BLDG 1 - ROOF	ICU	AHU-14	9,000 CFM	500 FPM	0.40 in-wg	93 °F	76 °F	55 °F	54 °F	664,830 Btu/h	371,070 Btu/h	83 GPM	42 °F	58 °F	13.94		
CWCC-34	BLDG 3 - 4TH FLOOR MER	AUDITORIUM	AHU-34	7,500 CFM	500 FPM	0.43 in-wg	82 °F	67 °F	56 °F	55 °F	274,670 Btu/h	214,770 Btu/h	34 GPM	42 °F	58 °F	4.26		

AIR FILTER SCHEDULE												
MARK	LOCATION	AREA AND/OR ROOM SERVED	SYSTEM AND/OR SERVICE	MERV RATING	AIRFLOW	APD		HOUSING TYPE	CARTRIDGES			REMARKS
						INITIAL	CHANGEOVER		#	SIZE L X W X H	ARRANGEMENT	
PF-1-3	BLDG 1 - MER #2	BLDG 1 LABS	AHU-3	7	14,600 CFM	0.28 in-wg	0.75 in-wg	SIDE	3 2 6	2" x 12" x 24" 2" x 16" x 20" 2" x 20" x 24"	FLAT	1
PF-2-3	BLDG 1 - MER #2	BLDG 1 LABS	AHU-3	11	14,600 CFM	0.30 in-wg	1.00 in-wg	SIDE	3 2 6	4" x 12" x 24" 4" x 16" x 20" 4" x 20" x 24"	FLAT	1
AF-3	BLDG 1 - MER #2	BLDG 1 LABS	AHU-3	14	14,600 CFM	0.57 in-wg	1.00 in-wg	SIDE	3 8	12" x 12" x 24" 12" x 20" x 24"	BAG/CARTRIDGE	1
PF-1-14	BLDG 1 - ROOF	BLDG 1 ICU	AHU-14	7	9,000 CFM	0.23 in-wg	0.75 in-wg	SIDE	4 3	2" x 16" x 25" 2" x 20" x 25"	FLAT	1
PF-2-14	BLDG 1 - ROOF	BLDG 1 ICU	AHU-14	11	9,000 CFM	0.25 in-wg	1.00 in-wg	SIDE	4 3	4" x 16" x 25" 4" x 20" x 25"	FLAT	1
AF-14	BLDG 1 - ROOF	BLDG 1 ICU	AHU-14	14	9,000 CFM	0.67 in-wg	0.00 in-wg	SIDE	3 3	12" x 20" x 24" 12" x 24" x 24"	BAG/CARTRIDGE	1
PF-1-34	4TH FLOOR MER	BLDG 3 AUDITORIUM	AHU-34	7	7,500 CFM	0.15 in-wg	0.40 in-wg	SIDE	2 4	2" x 20" x 20" 2" x 20" x 24"	FLAT	1
PF-2-34	4TH FLOOR MER	BLDG 3 AUDITORIUM	AHU-34	11	7,500 CFM	0.28 in-wg	1.00 in-wg	SIDE	2 4	4" x 20" x 20" 4" x 20" x 24"	FLAT	1
HEPA-1	BLDG 1 - ROOF	2301 PATIENT ROOM	ALL ISOLATION	17	420 CFM	0.50 in-wg	1.50 in-wg	BAG IN/OUT	1	11" x 24" x 24"	BAG IN/OUT	2
HEPA-4	BLDG 1 - ROOF	2310 PATIENT ROOM	ALL ISOLATION	17	460 CFM	0.50 in-wg	1.50 in-wg	BAG IN/OUT	1	11" x 24" x 24"	BAG IN/OUT	2

NOTES:

- FILTER SECTION SHALL BE STANDARD EQUIPMENT OF AIR HANDLING UNIT MANUFACTURER.
- FILTER HOUSING SHALL BE RATED FOR OUTDOOR INSTALLATION.

INTAKE/EXHAUST HOOD SCHEDULE								
MARK	LOCATION	SYSTEM AND/OR SERVICE	HOOD TYPE	APPLICATION	THROAT SIZE	HOOD AIRFLOW	HOOD APD	DAMPER TYPE
GH-34	BLDG 3 ROOF	AHU-34 RELIEF	EXHAUST	DUCTED	54 x 16	7,500 CFM	0.10 in-wg/100ft	BACKDRAFT

100% CONSTRUCTION DOCUMENTS

Amended Per Owner's Comments No Rev Clouds 10/17/2014		Revisions		Date
CONSULTANTS:				
PROJECT MANAGER:				
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Scale N.T.S.				
Drawing Title MECHANICAL SCHEDULES				
Project Title REPLACE AIR HANDLING UNITS 3, 14, & 34				
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Building Number 1 AND 3				
Drawing Number M-601				
Dwg. 14 of 18				
Office of Facilities Management				
Department of Veterans Affairs				