

HVAC DESIGN DATA													
DESIGN CONDITIONS	SUMMER					WINTER					LOWEST AVERAGE ANNUAL DEWPOINT		
	TEMP		WET BULB TEMP		% HUMIDITY	TEMP		DEWPOINT TEMP		% HUMIDITY	AIR CHANGE PER HOUR	°F	
	°F	[°C]	°F	[°C]		°F	[°C]	°F	[°C]				[°C]
OUTDOOR DESIGN CONDITIONS	86	[36]	78	[26]		-10	[-23]	-10	[-23]	NA			
INDOOR AREA DESIGN CONDITIONS													
CONFERENCE	75	[24]	NA		60	70	[21]	NA		20	4		
CORRIDOR	75	[24]	NA		60	70	[21]	NA		20	4		
OFFICE	75	[24]	NA		60	70	[21]	NA		20	4		
TOILET	77	[25]	NA		60	70	[21]	NA		20	10		
DRY LABORATORIES	75	[24]	NA		60	70	[21]	NA		20	6		
COMPUTING ROOM (LABS)	75	[24]	NA		NA	70	[21]	NA		NA	6		
CLEAN UTILITY/STORAGE ROOM	NA		NA		NA	NA		NA		NA	4		

AIR FILTER SCHEDULE											CARTRIDGES			REMARKS		
MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	MERV RATING	AIR FLOW		AFD		HOUSING TYPE	#	SIZE	ARRANGEMENT				
					CFM	US/s	INITIAL	CHANGEOVER								
1-F1	MECH ROOM	5TH FLOOR RESEARCH LAB BUILDING 11A	AHU AC-30	8	8000	[3800]	0.2	[5]	0.5	[1-3]	SIDE	6	2	[600 x 800 x 90]	(3) 24 X 24
1-F41	MECH ROOM	5TH FLOOR RESEARCH LAB BUILDING 11A	AHU AC-30	14	8000	[3800]	0.75	[19]	1.5	[38]	SIDE	6	12	[600 x 600 x 300]	(3) 12 X 24
....																

[illegible]

STEAM HUMIDIFIER SCHEDULE																			
MARK	LOCATION	SYSTEM AND/OR SERVICE	HUMIDIFIER TYPE	AIR FLOW [L/S]	# OF MANFOLDS	EAT						LAT		STEAM			TRAP		REMARKS
						DB		WB		DEWPOINT		SOURCE	PRESSURE VALVE	PRESSURE HEATER	FLOW	CONTROL TYPE	CAPACITY		
						°F	°C	°F	°C	°F	°C							°F	
1-SHT	MCH ROOM	AHU-AC-30	UNIT MOUNTED DISPERSION TUBE	8,000 [3900]	1	60 [16]	50 [10]	39.59 [4]	59.31 [15]	STEAM	30 [210]	30 [210]	202.86 [92]	PLAN-M-400	203 [92]			1, 2	


FAN SCHEDULE																										
MARK	LOCATION	AESA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	AIR FLOW		TSP		FAN						MOTOR ELECTRICAL						CONTROL SEQUENCE	REMARKS					
				CFM	[L/s]	IN	[Pa]	TYPE	WHEEL	CLASS	ARRANGEMENT NOTATION AND DISCHARGE	DIAMETER		MIN % EFF	DRIVE	FAN MAX RPM	NOMINAL POWER		PHASE			VOLT	RPM	SPEED CONTROL		
												IN	[mm]				BHP	HP							[kW]	
SR-30	MECH ROOM	6TH FLOOR RESEARCH BUILDING 11A	AHJ-AC-30	8000	[3800]	6.85	[1700]	PLENUM FAN	DRAW-THRU									14.8	15	[11]	3	460	1800	VARIABLE	PLM-M-900	1, 2, 3
EF-30	MECH ROOM	6TH FLOOR RESEARCH BUILDING 11A	EF-30	8000	[3800]	2.25	[560]	CENTRIFUGAL	IN-LINE	39	[980]	82.5%	BELT	1118	3179	5	[4]	3	460	1800	VARIABLE	PLM-M-900	1, 2			

[illegible]

CHILLED WATER COOLING COIL SCHEDULE																														
MARK	LOCATION	AREA AND/OR BLDGS SERVED	SYSTEM AND/OR SERVICE	AIR FLOW CFM	MAX FACE VELOCITY FPM	APD			EAT						LAT		TOTAL CAPACITY MBH	SENSEBLE CAPACITY		CHILLED WATER						REMARKS				
						IN W/G	N/G	P/Δ	DB °F	DB °C	WB °F	WB °C	DB °F	DB °C	WB °F	WB °C		MBH	kW	MBH	kW	GPM	L/S	°F	°C		°F	°C	FT	M
1-CWC-1	MECH ROOM	8TH FLOOR RESEARCH LAB BUILDING 11A	1-4HU AC-30	26800	[17000]	482.3	[3]	14	[300]	95	[35]	78	[26]	55.5	[13]	55.5	[13]	637.3	[190]	341.1	[100]	141.2	[9]	42	[6]	52	[11]	14.5	[4]
NOTE																														
THE COOLING COIL FIN SPACING SHALL NOT EXCEED 132 FINS PER FOOT (400 FINS PER METER).																														

HOT WATER HEATING COIL SCHEDULE																						REMARKS				
MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	APPLICATION	AIR FLOW		MAX FACE VELOCITY		TEMPERATURES						TOTAL MIN CAPACITY	HOT WATER							% GLYCOL			
					CFM	[L/S]	FM	[M/S]	IN WS	PA	°F	°C	°F	°C		MBH	FLOW GPM	°F	°C	LMT	°F			°C	FT	[M]
1-HWC-1	MECH ROOM	1TH FLOOR RESEARCH LAB BUILDING 1A	1-4HU AC-30	PREHEAT	8000	[300]	462.3	[3]	0.2	[50]	-10	[23]	74.4	[24]	728.7	[250]	81.1	[5]	180	[82]	160	[71]	4.2	[13]	40	...
1-HWC-2	MECH ROOM	1TH FLOOR RESEARCH LAB BUILDING 1A	1-4HU AC-30	HEAT	8000	[300]	500.8	[3]	0.15	[38]	53	[12]	83.5	[29]	263.9	[800]	27.3	[2]	180	[82]	160	[71]	1.3	[4]	40	...

EXHAUST HOOD SCHEDULE												
MARK	LOCATION	SYSTEM AND/OR SERVICE	TYPE	APPLICATION	THROAT SIZE		AIR FLOW		DAMPER TYPE	REMARKS		
					IN	[mm]	CFM	[L/s]			IN	[Pa]
PENTHOUSE ROOF		1-57-30	EXHAUST	GENERAL SPACE EXHAUST	300x6	[1900 x 1900]	8000	[2800]	0.13	[13]	MODULATED DAMPER	4" ROOF CURB
								[]		[]		

Drawing Title MECHANICAL EQUIPMENT SCHEDULES	Project Title REPLACEMENT OF AHU AC-30 IN BUILDING 11A		Project Number \$37-10-122	Office of Construction and Facilities Management			
	Location 820 S. DAMEN AVE CHICAGO, IL 60612	<table><tr><td>Date 1/26/2013</td><td>Checked YW</td><td>Drawn YW</td></tr></table>	Date 1/26/2013		Checked YW	Drawn YW	<table><tr><td>Bidding Number BUILDING 11A</td><td>Drawing Number 11B-M-700</td></tr></table>
Date 1/26/2013	Checked YW	Drawn YW					
Bidding Number BUILDING 11A	Drawing Number 11B-M-700						
Approved Project Director		Dwg. 07 of 10		 Department of Veterans Affairs			