



HVAC DESIGN DATA									
DESIGN CONDITIONS	SUMMER			WINTER			LOWEST AVERAGE ANNUAL DEWPOINT		
	TEMP °F	WET BULB TEMP °C	% HUMIDITY	TEMP °F	DEWPOINT TEMP °C	% HUMIDITY	°F	°C	
OUTDOOR DESIGN CONDITIONS	98	38	78	28	-10	-1.23	-10	1.23	NA
INDOOR AREA DESIGN CONDITIONS									
CONFERENCE	75	24	NA	60	70	21	NA	20	
CORRIDOR	75	24	NA	50	70	21	NA	20	
ELECTRICAL CLOSETS	88	30	NA	NA	50	10	NA	NA	
BREAK ROOM	75	24	NA	50	70	21	NA	20	
OFFICE	75	24	NA	50	70	21	NA	20	
TOILET	77	25	NA	50	70	21	NA	20	
VEGETABLE	NA		NA	50	10	NA	NA	NA	
WAITING	75	24	NA	50	70	21	NA	20	
LOCKER ROOM	75	24	NA	50	70	21	NA	20	

AIR FILTER SCHEDULE																
MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	MERV RATING	AIR FLOW		APD				HOUSING TYPE		CARTRIDGES			REMARKS
					CFM	[L/s]	INITIAL		CHANGEOVER		#	SIZE		ARRANGEMENT		
							IN	[mm]	IN	[mm]		IN	[mm]			
1-HF1	MECH ROOM	1ST FLOOR BUILDING 30	AHU S-10A	8	15740	7740	0.2	51	0.5	19	90E	12	2	800 x 600 x 50	(8.24 x 24
1-HF1	MECH ROOM	1ST FLOOR BUILDING 30	AHU S-10A	14	15740	7740	0.75	119	1.5	38	90E	12	12	800 x 600 x 300	(8.24 x 24
															

AIR HANDLING UNIT SCHEDULE																																			
MARK	LOCATION	AREA AND/OR BLDG SERVED	TYPE	AIR FLOW	AIR FLOW										SUPPLY FAN MARK	RETURN OR RELIEF FAN MARK	EXHAUST FAN MARK	PREFILTER MARK	AFTER FILTER MARK	FINAL FILTER MARK	HEAT RECOVERY MARK	PREHEAT COIL MARK	COOLING COIL MARK	REHEAT COIL	HUMIDIFIER MARK	REMARKS									
					CFM	[L/s]	MIN OA	RETURN	CFM	[L/s]	CFM	[L/s]	1.5F-10A	1-HF-10A													N/A	1.5F-1	1.4F-1	N/A	N/A	1-HMHC-1	1-CWCC-1	N/A	1.5H-1
AHU S-19	MECH ROOM	1ST FLOOR BUILDING 30	PHE ENGINEERING	VAV	15740	[7240]	2800	[1300]	1370	[6600]													1, 2, 3, 4, 5, 6, 7												

- NOTES:
- BASED ON CARRIER AERO INDOOR AIR HANDLER UNIT SIZE 36
 - INSULATION R-13 DOUBLE WALL SEALED PANEL
 - PROVIDE WITH WATERBERG CONTROL DAMPER FOR OA AND RA OPENINGS OF MAKING BOX
 - PROVIDE STAINLESS STEEL DRAIN PANS FOR COOLING COIL AND HUMIDIFIER SECTIONS
 - PROVIDE WITH GFS/BARK FIELD INSTALLED BY W.C. POWER CONNECTED BY E.C.
 - REUSE EXISTING VFD AND BYPASS
 - SHOCK DETECTORS IN SUPPLY AND RETURN MAINS PROVIDED AND WIRED BY E.C. INSTALLED BY M.C. COORDINATE CONTROL REQUIREMENT WITH E.C.

STEAM HUMIDIFIER SCHEDULE																									
MARK	LOCATION	SYSTEM AND/OR SERVICE	HUMIDIFIER TYPE	AIR FLOW	# OF MANIFOLDS	EAT						LAT		STEAM			CONTROL TYPE	TRAP		REMARKS					
						CFM	[L/s]	DB		WB		DEWPOINT		PRESS. ENT. VALVE	PRESS. ENT. HEATER	FLOW		MARK	CAPACITY						
								°F	°C	°F	°C	°F	°C								°F	°C	PSIG	PSIG	LB/SR
1-SH1	MECH ROOM	AHU S-10A	UNIT MOUNTED DISPERSION TUBE	15740	[7740]	1	96.8	[35]	70	[21]	55.66	[13]	58.7	[19]	STEAM	15	[100]	15	[100]	72	[33]	PLAN-M-800	72	[33]	1

- NOTES:
- PROVIDE WITH STAINLESS STEEL DRAIN PAN, CONTROL VALVE AND STEAM TRAP PROVIDED BY COORDINATOR

FAN SCHEDULE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	AIR FLOW CFM	TSP			FAN					MOTOR ELECTRICAL							CONTROL SEQUENCE	REMARKS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
					[L/s]	N	[Pa]	TYPE	WHEEL	CLASS	ARRANGEMENT, ROTATION AND DISCHARGE	DIAMETER [mm]	MM % EFF	DRIVE	FAN MAX RPM	NOMINAL POWER		PHASE	VOLT			RPM	SPEED CONTROL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
																BHP	HP							[kW]																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
SR-10A	MECH ROOM	1ST FLOOR BUILDING 30	AHU S-10A	15740	7400	5.73	1400																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							

CHILLED WATER COOLING COIL SCHEDULE																														
MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	AIR FLOW	MAX FACE VELOCITY	APD	EAT				LAT				TOTAL CAPACITY		SENSEBLE CAPACITY				CHILLED WATER				REMARKS					
							DB	WB	WB	DB	WB	WB	MBH	KW	MBH	KW	GPM	FLOW	EWT	LWT	WPD									
1-HMCC-1	MECH ROOM	1ST FLOOR BUILDING 30	1-AHU S-10A	15740	[7400]	437	[2]	0.54	[140]	79	[28]	66.7	[19]	55.7	[13]	55.3	[13]	500.5	[160]	386.5	[120]	110.9	[7.7]	42	[6]	52	[11]	12.8	[4]
NOTE																														
THE COOLING COIL FAN SPACING SHALL NOT EXCEED 132 FINS PER FOOT (400 FINS PER METER).																														

HOT WATER HEATING COIL SCHEDULE																										
MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	APPLICATION	AIR FLOW [L/s]	MAX FACE VELOCITY [FPM]	APD [Pa]	TEMPERATURES						TOTAL MIN CAPACITY		HOT WATER						WPD [kW]	% GLYCOL	REMARKS		
								ENT [°C]	LWT [°C]	MBH [kW]	FLOW [L/s]	EWT [°C]	LWT [°C]	FT [m]	4.2	40										
1-HMHC-1	MECH ROOM	1ST FLOOR BUILDING 30	1-AHU S-10A	PREHEAT	15740	7400	524.7	0.12	30	54	12	834	129	489.2	1700	55.6	14	180	82	180	77	17	42	13	40	...

ISSUED FOR CONSTRUCTION DOCUMENTS (FINAL BD)

ISSUED FOR RXX DESIGN SUBMITAL

ISSUED FOR 75% DESIGN DEVELOPMENT

11/26/13

10/29/13

06/22/15

11/26/13

10/29/13

06/22/15

Date

CONSULTANTS:

ARCHITECT/ENGINEERS:

600 West Fulton Street

Chicago, Illinois 60661

Drawing Title

MECHANICAL

EQUIPMENT SCHEDULES

Approved Project Director

Project Title

REPLACEMENT OF AHU S-10A

IN BUILDING 30

Drawing Number

30-M-700

Location

820 S. DAMEN AVE CHICAGO, IL 60612

Date

11/26/2013

Checked

YW

Drawn

YW

Dwg 07

of 10

Office of Construction and Facilities Management

Department of Veterans Affairs

FULLY SPRINKLERED