NOTES:

1. FOR ABBREVIATIONS, LEGEND, AND GENERAL NOTES SEE H1

AIR HANDLING UNIT SCHEDULE

MARK	LOCATION	SERVES	TYPE	CFM	EXTERNAL SP (INCH WG)	MAX FAN (RPM)	BHP	MOTOR DATA					WHEEL TYPE	MIN O/A (CFM)	FILTERS	COOLING COIL	HEATING COIL	REMARKS / KNOWN ACCEPTABLE SOURCE
								HP	RPM	VOLT	PH	HZ						
AC-B1 (AHU)	BASEMENT BA-7	PHARMACY	VERTICAL INDOOR	3100	1.25	3400		5	1750	460	3	60	AERO FOIL	1000	AF-1,2	CC-1	HC-1	FURNISH MODULAR UNIT W/MIXING BOX, W/30% PRE-FILTER 24" ACCESS PANEL SECTION, 85% CARTRIDGE FILTER, PREHEAT COIL, VERTICAL COOLING COIL AND FAN. ALL COILS SHALL BE COPPER TUBE & COPPER FINS. INTERNALLY SPRING ISOLATORS IN FAN SECTION
HV-G1 (AHU)	DOCK ROOF	LINEN & CORRIDOR	HORIZONTAL ROOF TOP OUTDOOR	2500	0.5	950	0.9	1	1750	460	3	60	FORWARD CURVE	300	AF-3	--	HC-2	FURNISH OUTDOOR WEATHER PROOF MODULAR UNIT WITH MIXING BOX, 30% FILTERS, HEATING COIL AND FAN. INTERNAL SPRING ISOLATOR IN FAN SECTION. THE ENTIRE UNIT SHALL BE COATED WITH CORROSION RESISTANT COATING.

DIRECT EXPANSION COOLING COIL SCHEDULE

MARK	SERVES	AIR FLOW (CFM)	MAX. AIR PRESSURE DROP (IN. WG)	MAX FACE VEL (FPM)	SUCTION TEMP (°F)	ENTERING AIR (°F)		LEAVING AIR (°F)		CAPACITY (MBH)		REMARKS / KNOWN ACCEPTABLE SOURCE
						DB	WB	DB	WB	SENSIBLE	TOTAL	
CC-1	AC-B1	3100	0.9	500	52	80	67	59.2	58.8	57	65	AHU MATCHED VERTICAL MODULE – COPPER TUBE & COPPER FINS

AIR COOLED CONDENSING UNIT SCHEDULE *

MARK	LOCATION	SERVES	NET COOL CAP (TONS)	MIN. NO. REFRI CKT	COMPRESSOR DATA					CONDENSER DATA							UNIT AMPICITY	REMARKS / KNOWN ACCEPTABLE SOURCE
					NO.	RLA	REFRG TYPE	NO. OF STEPS	SUCT. TEMP (°F)	COND. FANS NO.	COND. FANS FLA EACH	AMB TEMP (°F)	UNIT CFM	VOL	PH	HZ		
CU-G1	LOADING DOCK ROOF	AC-B1	7.5	1	1	9.6	22	1	45	2	0.4	95	6500	460	3	60	19.6	FURNISH WITH HOT GAS BY-PASS.
CU-G2	LOADING DOCK ROOF	AHU FOR STORE OFFICES	2	1	1	–	22	1	45	1	–	95	–	208	1	60	16.4	THE UNIT WILL COMPATIBLE TO SERVE EXISTING SKILL-AIRE MODEL BAH024H1 AIR HANDLER, SPLIT HEAT PUMP
CU-G3	LOADING DOCK ROOF	AHU FOR STORE OFFICES	2	1	1	–	22	1	45	1	–	95	–	208	1	60	16.4	THE UNIT WILL COMPATIBLE TO SERVE EXISTING SKILL-AIRE MODEL BAH024H1 AIR HANDLER, SPLIT HEAT PUMP

* FURNISH WITH HERISITE COATED COPPER COIL & COPPER FIN.

HOT WATER HEATING COIL SCHEDULE

MARK	LOCATION	SERVES	TYPE	AIR FLOW (CFM)	GPM	EWT (°F)	LWT (°F)	MAX PD (FT WC)	MAX VEL (FPM)	EAT (°F)	CAPACITY (BTUH)	MAX AIR PD (IN. WG)	REMARKS / KNOWN ACCEPTABLE SOURCE
HC-1	AC-G1	PHARMACY	1-ROW	3100	6.8	190	170	5	500	60	68000	0.2	COPPER TUBE AND COPPER FINS
HC-2	HV-B1	LINEN & CORRIDOR	1-ROW	2500	4.9	190	170	5	500	65	48000	0.2	COPPER TUBE AND COPPER FINS, CORROSION RESISTANT MATERIAL COATING
HC-3	PHARMACY	IV ROOM	1-ROW	310	0.5	190	170	5	500	65	3240	0.1	COPPER TUBE AND COPPER FINS

FILTER SCHEDULE

MARK	SERVES	TYPE	CFM	MAX VEL (FPM)	PD (INCH WG) INITIAL	PD (INCH WG) FINAL	QUANTITY AND SIZE	MIN AVG EFF ASHRAE 52-76	REMARKS
AF-1	AC-B1	2" TA	3100	400	0.2	0.4	(8) 16x20 (4) 16x25	30%	
AF-2	AC-B1	12" CARTRIDGE	3100	400	0.3	0.65	(6) 20x20	85%	
AF-3	HV-G1	2" TA	2500	300	0.2	0.3	–	30%	
AF-4	IV ROOM	HEPA	310	75	0.1	0.2	–	99.99%	ROOM ACCESSIBLE HEPA FAN-FILTER MODULE WITH GEL SEAL 24x48 FACE GRILLE, GYPSUM BOARD CEILING MOUNTING FRAME, 1/4 HP – 110V
AF-5	EF-R1	HEPA	640	150	0.5	0.75	–	99.99%	SIDE ACCESS STAINLESS STEEL FRAME AND GEL SEAL FURNISH WITH DISPOSABLE PRE FILTER
AF-6	EF-R2	HEPA	1160	150	0.5	0.75	–	99.99%	SIDE ACCESS STAINLESS STEEL FRAME AND GEL SEAL FURNISH WITH DISPOSABLE PRE FILTER
AF-7	EF-R3	HEPA	720	150	0.5	0.75	–	99.99%	SIDE ACCESS STAINLESS STEEL FRAME AND GEL SEAL FURNISH WITH DISPOSABLE PRE FILTER
AF-8	(E) EF-R4	HEPA	980	150	0.5	0.75	–	99.99%	SIDE ACCESS STAINLESS STEEL FRAME AND GEL SEAL FURNISH WITH DISPOSABLE PRE FILTER
AF-9	EF-R5	HEPA	1000	150	0.5	0.75	–	99.99%	SIDE ACCESS STAINLESS STEEL FRAME AND GEL SEAL FURNISH WITH DISPOSABLE PRE FILTER

SOUND TRAP SCHEDULE

MARK	SERVICE	SILENCER SIZE INSIDE DIMENSION (INCHES)			CFM	MAX. PRESS. DROP (IN W.G.)	INLET DISCHARGE.	MINIMUM DYNAMIC INSERTION LOSS IN dB (AT 2000 FPM FACE VELOCITY) OCTAVE BAND CENTER FREQUENCY							
		WD	HT	L				63	125	250	500	1000	2000	4000	8000
ST-B1	AC-B1	36	18	60	3,100	0.3	DISCHARGE.	9	13	23	28	27	17	13	12

DIAPHRAGM EXPANSION TANK SCHEDULE

MARK	LOCATION	SYSTEM SERVED	SIZE DIA.xLENGTH (INCHES)	CAPACITY (GAL.)	ACCEPTANCE VOLUME (GAL)	REMARKS / KNOWN ACCEPTABLE SOURCE
ET-1	ROOF	CHILLED WATER	16x56	44	22	ASME 120 PSI RATED/B & G

SINGLE DUCT AIR TERMINAL UNIT SCHEDULE

UNIT NO.	CFM MIN.	CFM MAX.	① DUCT RUNOUT SIZE TO UNIT (IN)	② UNIT MAX. SP AT MAX. CFM (IN W.G.)	③ SOUND REQUIREMENTS: SP ACROSS UNIT AT MAXIMUM ROOM NC	③ SOUND REQUIREMENTS: MAX. ROOM NC	HOT WATER HEATING COIL: ENT. AIR TEMP. (°F)	ENT. WATER TEMP. (°F)	GPM	MAX. WATER PD (FT)	PIPE RUNOUT SIZE TO COIL (IN)	MAX COIL (CFM)	LVG AIR TEMP (°F)	CONTROL TYPE
U	–	190	4	0.4	1.5	35	56	200	0.5	2	3/4	190	76	DDC
V	200	340	5	0.4	1.5	35	56	200	0.5-0.9	2	3/4	340	76	DDC
W	350	790	8	0.4	1.5	35	56	200	0.9-2.4	2	3/4	790	76	DDC
X	800	1290	10	0.4	1.5	35	56	200	1.4-3.6	2	3/4	1290	76	DDC
Y	1300	2290	12	0.4	1.5	35	56	200	2.5-3.7	2	3/4	2290	71	DDC
Z	2300	4000	16	0.4	1.5	35	56	200	4.3-6.5	2	3/4	4000	71	DDC
B01-ACB1	210	420	8	0.4	0.6	35	–	–	–	–	–	–	–	DDC – BY PASS VAV
B02-ACB1	150	300	6	0.4	0.6	35	–	–	–	–	–	–	–	DDC – BY PASS VAV
B03-ACB1	770	1540	14	0.4	0.6	35	–	–	–	–	–	–	–	DDC – BY PASS VAV
B04-ACB1	270	530	9	0.4	0.6	35	–	–	–	–	–	–	–	DDC – BY PASS VAV

① PROVIDE DUCT TRANSITION AT UNIT WHERE UNIT INLET SIZE AND DUCT RUNOUT SIZE ARE DIFFERENT.

② THE UNIT MAXIMUM SP IS THE PRESSURE DIFFERENCE BETWEEN THE UNIT INLET AND DISCHARGE INCLUDING REHEAT COIL AND SOUND ATTENUATOR. IT IS ALSO THE MINIMUM PRESSURE REQUIRED AT THE UNIT INLET TO OBTAIN THE RATED CFM.

③ REFER TO AIR TERMINAL UNIT SOUND REQUIREMENT SCHEDULE FOR MAXIMUM SOUND POWER LEVEL VALUES PERMITTED WITH SP ACROSS UNIT AND ROOM NC SHOWN.

AIR SEPARATOR SCHEDULE

MARK	GPM	MAX WATER PRESS. DROP (FT WC)	SIZE	REMARKS / KNOWN ACCEPTABLE SOURCE
AS-1	234	0.2	4"	ASME 125 PSI RATED, B&G R-4

AIR TERMINAL UNIT SOUND REQUIREMENTS

① ROOM NC	② MAXIMUM SOUND POWER LEVEL (Re: 10^{-12} WATTS) FOR BOX DISCHARGE AT MAXIMUM INLET DUCT SP. — OCTAVE BANDS						REMARKS
	2	3	4	5	6	7	
25	48	41	35	31	29	28	
30	58	53	49	45	43	40	
35	62	57	53	50	48	45	
40	66	62	57	55	53	50	
45	69	66	62	60	58	55	

① REFER TO AIR TERMINAL UNIT SCHEDULE FOR INDIVIDUAL UNIT VALUE.

② THE MAXIMUM SOUND POWER LEVELS LISTED ARE BASED ON A ROOM ATTENUATION OF 5 dB AND AN ALLOWANCE FOR DISCHARGE DUCTWORK, EXCEPT UNITS SERVING AUDIO SOUND BOOTHS WHICH SHALL MEET VALUES LISTED FOR ROOM NC LEVEL OF 25.

CURB MOUNTED GRAVITY HOOD SCHEDULE

HOOD NO.	THROAT SIZE (IN)	SERVICE/ UNIT	CFM	MAX. S.P. (IN W.G.)	DAMPER TYPE	DAMPER OPERATOR	REMARKS
IV-G1	20"	PHARMACY	1200	0.1	BACKDRAFT	--	GALVANIZED STEEL VENTILATOR WITH PHENOLIC EPOXY AND TOP UV COAT
RV-G1	20"	STORE BB23	---	0.1	NONE	--	GALVANIZED STEEL VENTILATOR WITH PHENOLIC EPOXY AND TOP UV COAT
RV-G2	12"	CORRIDOR CBB3	200	0.1	NONE	--	GALVANIZED STEEL VENTILATOR WITH PHENOLIC EPOXY AND TOP UV COAT

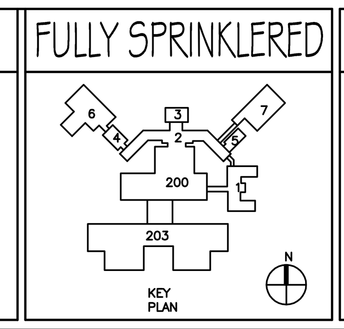
DUCT LEAKAGE CLASSIFICATION AND ALLOWABLE LEAKAGE TABLE

DUCT PRESSURE CLASS (IN W.G.)	SEAL CLASS	APPLICABLE SEALING	SMACNA LEAKAGE CLASS RECTANGULAR DUCT	SMACNA LEAKAGE CLASS ROUND DUCT
1/2", 1", 2"	C	TRAVERSE JOINTS ONLY	24	12
3"	B	TRAVERSE JOINTS AND SEAMS	12	6
4", 6", 10"	A	JOINTS, SEAMS AND ALL WALL PENETRATIONS	6	3

RECORD DRAWINGS		09/04/09
Revisions:	Phase	Date

CONSULTANTS:

FULLY SPRINKLERED



KEY PLAN

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Drawing Title: **EQUIPMENT SCHEDULES**

Approved: Project Director, Western Team

Project Title: **VA SEISMIC CORRECTIONS BUILDING 203**

Location: **San Francisco, CA**

Date: AUGUST 09, 2005 | Checked: NP | Drawn: JSR

Project Number: **662-401**

Building Number: **203**

Drawing Number: **H3**

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Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978