SPLIT SYSTEM AC UNIT SCHEDULE

FAN COIL																CONDENSING UNIT									
REFERENCE						SUPPLY FAN			COIL			ELECTRICAL				REFERENCE			ELECTRICAL						
MARK	MFGR	MODEL	NOMINAL TONS	SERVICE	CONFIGURATION	AIRFLOW CFM	OSA CFM	EXT. SP, in. WC.	COIL TYPE	TOTAL CAP, MBH	SENS. CAP, MBH	VOLT	PHASE	MCA AMPS	MOCP AMPS	OPP. WEIGHT LBS	MARK	MFGR	MODEL	AMB. TEMP. deg F, DB	VOLT	PHASE	MCA AMPS	MOCP AMPS	OPP. WEIGHT LBS	REMARKS
FC-1	CARRIER	40QNC024	1.5	TEL COM	HIGH WALL	645	–	–	DX	15.6	13.5	208	1	.48	15	31	CU-1	CARRIER	38HDF018	95	208	1	12.1	20	166	1 2 3
FC-2	CARRIER	40QNC024	1.5	ELEV CNT RM	HIGH WALL	645	–	–	DX	15.6	13.5	208	1	.48	15	31	CU-2	CARRIER	38HDF018	95	208	1	12.1	20	166	1 2 3

(X) REMARKS:

1 REFRIGERANT LINES SHALL BE SIZED AND INSTALLED PER THE MANUFACTURER'S WRITTEN INSTRUCTIONS FOR DEVELOPED LINE LENGTH.

2 PROVIDE WITH LOW AMBIENT CONTROLS (0°F).

3 FURNISH CONDENSING UNIT WITH COMPRESSOR OVERLOAD PROTECTION, INTERNAL VIBRATION ISOLATION. HIGH AND LOW PRESSURE SWITCHES. COMPRESSOR ANTI-SHORT-CYCLE PROTECTION, CRANK CASE HEATER, AND WEATHER PROTECTED CABINET.

PUMP SCHEDULE

REFERENCE				PUMP									ELECTRICAL					MOUNTING		
MARK	MFGR	MODEL	SERVICE	TYPE	SPEED, RPM	CAPACITY, L/M (GPM)	TOTAL HEAD, M (FT.)	OPP. TEMP, deg C (F)	IMPELLER SIZE, MM (IN)	EFFICIENCY (%)	CONNECTIONS, MM (IN) SUCT	CONNECTIONS, MM (IN) DISCH	PUMP KW (BHP)	MOTOR KW (HP)	VOLTS	PHASE	MOTOR TYPE	TYPE	WEIGHT KG (LBS)	REMARKS
SHWP-1	B&G	SERIES 80 2X2X9.5B	HEATING WATER	IN-LINE	1750	265 (70)	19 (62)	60 (140)	203 (8)	55	51 (2)	51 (2)	1.49 (2.0)	2.24 (3)	230	3	TEDP	BASE	84 (185)	1 2 3 4
SHWP-2	B&G	SERIES 80 2X2X9.5B	HEATING WATER	IN-LINE	1750	265 (70)	19 (62)	60 (140)	203 (8)	55	51 (2)	51 (2)	1.49 (2.0)	2.24 (3)	230	3	TEDP	BASE	84 (185)	1 2 3 4

TYPICAL REQUIREMENTS:

A. RE: DIVISION 23 SECTION "HYDRONIC PUMPS" FOR SPECIFICATIONS.

B. IMPELLER SIZE SCHEDULED IS APPROXIMATE. FINAL SIZE SHALL BE DETERMINED BY MANUFACTURER BASED ON SCHEDULED POINT OF OPERATION.

(X) REMARKS:

1. PUMP SIZING AND PERFORMANCE BASED ON 30% PROPYLENE GLYCOL / 70% FRESH WATER SOLUTION.
2. FURNISH WITH STRAIGHT TRIPLE DUTY VALVE AND SUCTION DIFFUSER.
3. PUMP MOTOR SHALL BE INVERTER-DUTY RATED, MECHANICAL CONTRACTOR SHALL FURNISH AND WARRANTY MATCHING VFD, INSTALLED BY ELECTRICAL CONTRACTOR.
4. PUMP SHALL BE LOCATED IN BUILDING 33 BASEMENT RE: M2.5 FOR LOCATION.

VAV TERMINAL UNIT SCHEDULE

REFERENCE					PRIMARY AIR VALVE				HOT WATER REHEAT COIL									
MARK	MFGR	MODEL	LOCATION	TYPE	INLET SIZE, MM (IN)	MAX M^3/h (CFM)	MIN M^3/h (CFM)	MAX SP INLET	AIRFLOW, M^3/h (CFM)	EAT, deg C (F)	LAT, deg C (F)	ROWS	EWT, deg C (F)	LWT, deg C (F)	COIL FLOW L/M (GPM)	HW LINE SIZE MM (IN)	WATER PD, KPA (FT.)	REMARKS
VAV-109	CARNES	AVWE06	FIRST FLOOR	SINGLE DUCT VAV W/REHEAT	152 (6)	501 (295)	255 (150)	1.00	255 (150)	13 (55)	34.4 (94)	2	60 (140)	49 (120)	2.2 (0.6)	13 (.5)	.8 (.27)	1 2
VAV-110	CARNES	AVWE05	FIRST FLOOR	SINGLE DUCT VAV W/REHEAT	127 (5)	331 (195)	161 (95)	1.00	161 (95)	13 (55)	38.3 (101)	2	60 (140)	49 (121)	1.9 (0.5)	13 (.5)	.6 (.20)	1 2
VAV-111	CARNES	AVWE06	FIRST FLOOR	SINGLE DUCT VAV W/REHEAT	152 (6)	688 (405)	348 (205)	1.00	348 (205)	13 (55)	32.2 (90)	2	60 (140)	49 (121)	3.0 (0.8)	13 (.5)	1.3 (.45)	1 2
VAV-112	CARNES	AVWE05	FIRST FLOOR	SINGLE DUCT VAV W/REHEAT	127 (5)	331 (195)	161 (95)	1.00	161 (95)	13 (55)	38.3 (101)	2	60 (140)	49 (121)	1.9 (0.5)	13 (.5)	.6 (.20)	1 2
VAV-113	CARNES	AVWE06	FIRST FLOOR	SINGLE DUCT VAV W/REHEAT	152 (6)	510 (300)	255 (150)	1.00	255 (150)	13 (55)	34.4 (94)	2	60 (140)	48 (119)	2.2 (0.6)	13 (.5)	.8 (.27)	1 2
VAV-114	CARNES	AVWE05	FIRST FLOOR	SINGLE DUCT VAV W/REHEAT	127 (5)	272 (160)	136 (80)	1.00	136 (80)	13 (55)	40 (104)	2	60 (140)	51 (123)	1.9 (0.5)	13 (.5)	.6 (.20)	1 2
VAV-209	CARNES	AVWE06	SECOND FLOOR	SINGLE DUCT VAV W/REHEAT	152 (6)	773 (455)	382 (225)	1.00	382 (225)	13 (55)	31.6 (89)	2	60 (140)	49 (121)	3.4 (0.9)	13 (.5)	1.6 (.55)	1 2
VAV-210	CARNES	AVWE10	SECOND FLOOR	SINGLE DUCT VAV W/REHEAT	254 (10)	1079 (635)	535 (315)	1.00	535 (315)	13 (55)	33.3 (92)	2	60 (140)	48 (119)	4.5 (1.2)	13 (.5)	.75 (.25)	1 2
VAV-211	CARNES	AVWE06	SECOND FLOOR	SINGLE DUCT VAV W/REHEAT	152 (6)	680 (400)	340 (200)	1.00	340 (200)	13 (55)	32.7 (91)	2	60 (140)	49 (121)	3.0 (0.8)	13 (.5)	1.3 (.45)	1 2

TYPICAL REQUIREMENTS:

A. RE: DIVISION 23 SPECIFICATION SECTION "AIR TERMINAL UNITS" FOR ADDITIONAL REQUIREMENTS.

(X) REMARKS:

1. SINGLE DUCT TERMINAL UNIT FURNISHED WITH CONTROLS ENCLOSURE, HOT WATER HEATING COIL, AND DIFFERENTIAL PRESSURE SAMPLING TUBES.
2. FURNISH WITH FACTORY ATTENUATOR SECTION. RE: HVAC PLANS FOR OUTLET SIZE AND QUANTITIES.

DIFFUSER, REGISTER AND GRILLE SCHEDULE

REFERENCE										
MARK	MFGR	MODEL	DESCRIPTION	FACE TYPE	MOUNTING	FRAME SIZE (NOMINAL) MM (IN)	NECK/PLENUM SIZE MM (IN)	MAX M^3/h (CFM)	COLOR	REMARKS
CD-1	TITUS	TDC	SUPPLY DIFFUSER	LOUVERED	LAY-IN	610 (24") x 610 (24")	152 (6")ø	297 (175)	WHITE	1 3
CD-2	TITUS	TDC	SUPPLY DIFFUSER	LOUVERED	LAY-IN	610 (24") x 610 (24")	203 (8")ø	476 (280)	WHITE	1 3
CD-3	TITUS	TDC	SUPPLY DIFFUSER	LOUVERED	LAY-IN	610 (24") x 610 (24")	254 (10")ø	646 (380)	WHITE	1 3
CD-4	TITUS	TDC	SUPPLY DIFFUSER	LOUVERED	LAY-IN	610 (24") x 610 (24")	304 (12")ø	935 (550)	WHITE	1 3
CD-5	TITUS	TDC	SUPPLY DIFFUSER	LOUVERED	LAY-IN	610 (24") x 610 (24")	356 (14")ø	1232 (725)	WHITE	1 3
CD-6	TITUS	TDC	SUPPLY DIFFUSER	LOUVERED	SURFACE	305 (12") x 305 (12")	152 (6")ø	297 (175)	WHITE	1 3
CD-7	TITUS	TDC	SUPPLY DIFFUSER	LOUVERED	SURFACE	305 (12") x 305 (12")	203 (8")ø	476 (280)	WHITE	1 3
CD-8	TITUS	TDC	SUPPLY DIFFUSER	LOUVERED	SURFACE	305 (12") x 305 (12")	254 (10")ø	646 (380)	WHITE	1 3
CD-9	TITUS	TDC	SUPPLY DIFFUSER	LOUVERED	SURFACE	305 (12") x 305 (12")	304 (12")ø	935 (550)	WHITE	1 3
CD-10	TITUS	TDC	SUPPLY DIFFUSER	LOUVERED	SURFACE	381 (15") x 381 (15")	356 (14")ø	1232 (725)	WHITE	1 3
RG-1	TITUS	50F	RETURN GRILLE	EGGCRATE	LAY-IN	305 (12") x 610 (24")	254 (10") x 559 (22")	1870 (1100)	WHITE	2 3 4
RG-2	TITUS	50F	RETURN GRILLE	EGGCRATE	LAY-IN	610 (24") x 610 (24")	559 (22") x 559 (22")	4248 (2500)	WHITE	2 3 4
RG-3	TITUS	50F	RETURN GRILLE	EGGCRATE	SURFACE	305 (12") x 305 (12")	254 (10") x 254 (10")	1189 (700)	WHITE	2 4
EG-1	TITUS	50F	EXHAUST GRILLE	EGGCRATE	LAY-IN	305 (12") x 610 (24")	254 (10") x 559 (22")	0870 (1100)	WHITE	2 3 4
EG-2	TITUS	50F	EXHAUST GRILLE	EGGCRATE	LAY-IN	610 (24") x 610 (24")	559 (22") x 559 (22")	4248 (2500)	WHITE	2 3 4
EG-3	TITUS	50F	EXHAUST GRILLE	EGGCRATE	SURFACE	305 (12") x 305 (12")	254 (10") x 254 (10")	1189 (700)	WHITE	2 4
SD-1	TITUS	FL-20	SLOT DIFFUSER	CONCEALED FACE	SURFACE	SEE PLANS	SEE PLANS	–	–	5
SD-2	TITUS	300RL	SIDEWALL DIFFUSER	LOUVERED	SURFACE	356 (14") x 254 (10")	305 (12") x 203 (8")	680 (400)	WHITE	4

TYPICAL REQUIREMENTS:

A. VERIFY CEILING AND WALL CONSTRUCTION ON ARCHITECTURAL DRAWINGS. PROVIDE CORRECT FRAME TYPES.

B. DIFFUSERS SHALL BE FURNISHED WITH 4-WAY THROW UNLESS INDICATED OTHERWISE ON DRAWINGS.

(X) REMARKS:

1. FURNISH WITH ROUND-SQUARE TRANSITION.
2. PAINT BEHIND GRILLE FLAT BLACK.
3. FURNISH WITH A [305 mm (12") x 610 mm (24")] OR [610 mm (24") x 610 mm (24")] SIZE MODULE FOR INSTALLATION IN LAY-IN CEILING GRID.
4. FURNISH DUCT TO REGISTER TRANSITION.
5. FURNISH DIFFUSER WITH TYPE 22 BORDER, SPLINE SUPPORTS, END CAPS AND MOUNTING BRACKETS. FURNISH INSULATED FACTORY PLENUM, SEE PLANS FOR LENGTH. CONTRACTOR SHALL FOLLOW MANUFACTURERS RECOMMENDATION FOR SURFACE PREPARATION PRIOR TO PLASTERING IN BORDER FACE. KEEP DIFFUSER FACE CLEAR OF PLASTER.
6. COORDINATE DOOR LOUVER WITH ARCHITECTURAL PLANS & DOOR SCHEDULE. PROVIDE AUXILIARY FRAME.

FAN SCHEDULE

REFERENCE				FAN					ELECTRICAL					MOUNTING		
MARK	MFGR	MODEL	SERVICE	TYPE	DRIVE	SPEED RPM	CAPACITY M^3/h (CFM)	EXT. SP KPA (IN WC)	KW (BHP)	MOTOR KW (HP)	VOLTS	PHASE	MOTOR TYPE	TYPE	WEIGHT KG (LBS)	REMARKS
EF-2	COOK	GN-862	GENERAL EXHAUST	IN-LINE	BELT	1066	1656 (975)	.1 (0.5)	.19 (0.26)	.25 (.334)	120	1	ODP	SUSPENDED	34 (75)	1

TYPICAL REQUIREMENTS:

A. RE: DIVISION 23 SECTION "HVAC FANS" FOR ADDITIONAL SPECIFICATIONS.

B. BI = BACKWARD INCLINED; FC = FORWARD CURVED; ODP = OPEN DRIP PROOF; TEFC = TOTALLY-ENCLOSED, FAN-COOLED; XP = EXPLOSION-PROOF.

C. MOTORS FURNISHED WITH FANS SHALL BE NO LARGER THAN SCHEDULED MOTOR HP.

(X) REMARKS:

1. FURNISH WITH FACTORY FAN SPEED CONTROL, SUSPENSION HARDWARE AND BACKDRAFT DAMPER.

95% SUBMISSION

REVISIONS | DATE

CSHQA

C.W. MOORE PLAZA
250 S. 5TH ST. - BOISE, ID 83702
(208) 343-4635 - FAX (208) 343-1858
http://www.cshqa.com

RICK M. EVERTON, P.E.
C.W. MOORE PLAZA
250 S. 5TH ST
BOISE, IDAHO
PHONE: 208-343-4635 FAX: 208-343-1858

THESE DRAWINGS AND SPECIFICATIONS, AS INSTRUMENTS OF SERVICE, ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT / ENGINEER WHETHER THE PROJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY ANY PERSON OR ENTITY ON OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT, OR COMPLETION OF THIS PROJECT WHEN PHASED WITHOUT THE WRITTEN CONSENT OF CSHQA OR ITS AFFILIATES. Copyright©2011

STAMP

PRELIMINARY
NOT FOR
CONSTRUCTION

DRAWING TITLE
MECHANICAL
EQUIPMENT SCHEDULES

APPROVED: DIVISION CHIEF

APPROVED: SERVICE DIRECTOR

PROJECT TITLE
VAMC
RENOVATE
BUILDING 33

BUILDING NUMBER 33 | CHECKED RME | DRAWN DJH

LOCATION BOISE, IDAHO

DATE 03/04/11

PROJECT NO. 531-10-114

DRAWING NO. M0.2

DWG. 55 OF 102

DEPARTMENT OF VETERANS AFFAIRS

Username:jjel
Mar 04, 2011 - 3:44pm
Q:\2009\09004.6\Phase 2 - Renovations\Mech\02_Drawings\M0.2_BUILDING 33.dwg