

BUILT-UP AIR HANDLING UNIT SCHEDULE

UNIT NO.	LOCATION	SERVICE	TYPE	SUPPLY AIR FAN #	CHILLED WATER COIL #	HEATING COIL #	HUMIDIFIER #	FILTER #	AIR FLOW		REMARKS
									SUPPLY AIR CFM	OUTSIDE AIR CFM	
W-CS-107-AH-01	LVEA BUILDING	LVEA	BUILT-UP	W-CS-107-SF-01 W-CS-107-SF-02	W-CS-107-CC-01 W-CS-107-CC-02	-----	W-CS-107-HU-01 W-CS-107-HU-02	W-CS-107-AF-01	43,000	3,100	CONTRACTOR WILL SUBMIT SHOP DRAWINGS FOR CONSTRUCTION DETAILS
W-CS-107-AH-02	LVEA BUILDING	LVEA	BUILT-UP	W-CS-107-SF-03 W-CS-107-SF-04	W-CS-107-CC-03 W-CS-107-CC-04	-----	W-CS-107-HU-03 W-CS-107-HU-04	W-CS-107-AF-02	43,000	3,100	CONTRACTOR WILL SUBMIT SHOP DRAWINGS FOR CONSTRUCTION DETAILS

NOTES:
 1. FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES SEE SHEETS WA-H-001 AND WA-H-002.

* SEE INDIVIDUAL EQUIPMENT SCHEDULES

PACKAGED AIR-COOLED WATER CHILLER SCHEDULE

UNIT NO.	LOCATION	SERVICE	TYPE	CHILLED FLUID	AMBIENT			COMPRESSOR		MINIMUM CAPACITY (TONS)	MAX KW	REFRIGERANT	EVAPORATOR			CONDENSER		SINGLE POINT ELECT CONN			OPER WT (LB)	MANUFACTURER/ MODEL NO.	REMARKS	
					DESIGN TEMP (°F DB)	ALTITUDE (FT)	MIN OPER TEMP (°F DB)	TYPE	DRIVER				ENT TEMP (°F)	LVG TEMP (°F)	GPM	MAX PD (FT)	NO. FANS EACH UNIT	HP EACH FAN	VOLTS/ PH/Hz	TOTAL RLA				TOTAL LRA
W-CS-190-CH-01	CORNER STATION	CORNER STATION	AIR COOLED	WATER 40% GLYCOL	105	400	0°F	SCREW	ELECT MOTOR	227	366	R-22	54.8	42	365	15	21	1.5	460/3/60	489	1222	18,000	TRANE RTAA 240	ALL PERFORMANCE DATA ARE AT ACTUAL CONDITIONS, LOW AMBIENT (-10°F)
W-CS-190-CH-02	CORNER STATION	CORNER STATION	AIR COOLED	WATER 40% GLYCOL	105	400	0°F	SCREW	ELECT MOTOR	227	366	R-22	54.8	42	365	15	21	1.5	460/3/60	489	1222	18,000	TRANE RTAA 240	ALL PERFORMANCE DATA ARE AT ACTUAL CONDITIONS, LOW AMBIENT (-10°F)
W-CS-190-CH-03	CORNER STATION	CORNER STATION	AIR COOLED	WATER 40% GLYCOL	105	400	0°F	SCREW	ELECT MOTOR	227	366	R-22	54.8	42	365	15	21	1.5	460/3/60	489	1222	18,000	TRANE RTAA 240	STANDBY

CHILLED WATER COOLING COIL SCHEDULE

UNIT NO.	LOCATION	SERVICE	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	MAX FACE VEL (FPM)	ACFM	MAX AIR PD (IN. WG)	ROWS	EAT			LAT			EWT (°F)	LWT (°F)	GPM	MAX WTR PD (FT)	MANUFACTURER/ MODEL NO.	OVERALL SIZE (IN. X IN.)	REMARKS
									*FDB	*FWB	*FDB	*FWB	*FDB	*FWB							
W-CS-107-CC-01	CORNER STATION	LVEA	640	630	410	18,000	0.60	8	11	82.9	62.1	50.3	49.3	42	56.4	108	15	COLMAC DX	68 X 96	40% GLYCOL	
W-CS-107-CC-02	CORNER STATION	LVEA	640	630	410	18,000	0.60	8	11	82.9	62.1	50.3	49.3	42	56.4	108	15	COLMAC DX	68 X 96	40% GLYCOL	
W-CS-107-CC-03	CORNER STATION	LVEA	640	630	410	18,000	0.60	8	11	82.9	62.1	50.3	49.3	42	56.4	108	15	COLMAC DX	68 X 96	40% GLYCOL	
W-CS-107-CC-04	CORNER STATION	LVEA	640	630	410	18,000	0.60	8	11	82.9	62.1	50.3	49.3	42	56.4	108	15	COLMAC DX	68 X 96	40% GLYCOL	

EXPANSION TANK SCHEDULE

UNIT NO.	LOCATION	SERVICE	TYPE	MIN CAP (GAL)	MAX WORKING PRESS (PSIG)	MAX OPER TEMP (°F)	OPER WT (LB)	MANUFACTURER/ MODEL NO.	REMARKS
W-CS-107-TK-01	CORNER STATION	CHILLED WATER	DIAPHRAM	79	150	110	510	AMTROL AX-80	

AIR SEPARATOR SCHEDULE

UNIT NO.	LOCATION	SERVICE	MIN CAP (GPM)	CONN SIZE (IN.)	OPER WT (LB)	MANUFACTURER/ MODEL NO.	REMARKS
W-CS-107-AS-01	CORNER STATION	CHILLED WATER	700	6"	750	AMTROL 3-A5	

CHILLED WATER CIRCULATING PUMP SCHEDULE

UNIT NO.	LOCATION	SERVICE	TYPE	FLUID PUMPED	MAX FLUID TEMP (°F)	GPM	TOTAL HEAD (FT)	NPSH (FT)	BHP	MOTOR			OPER WT (LB)	MANUFACTURER/ MODEL NO.	REMARKS	
										HP	VOLTS/ PH/Hz	RPM				
W-CS-190-WP-01	CORNER STN	CORNER STN	CENTRIFUGAL	40% GLYCOL	60	365	140	10	18	20	460/3/60	3500	CENT	650	PACO, TYPE L 2570-7 (2 1/2" X 3X7)	40% GLYCOL
W-CS-190-WP-02	CORNER STN	CORNER STN	CENTRIFUGAL	40% GLYCOL	60	365	140	10	18	20	460/3/60	3500	CENT	650	PACO, TYPE L 2570-7 (2 1/2" X 3X7)	40% GLYCOL
W-CS-190-WP-03	CORNER STN	CORNER STN	CENTRIFUGAL	40% GLYCOL	60	365	140	10	18	20	460/3/60	3500	CENT	650	PACO, TYPE L 2570-7 (2 1/2" X 3X7)	40% GLYCOL (STANDBY)

FAN SCHEDULE

UNIT NO.	LOCATION	SERVICE	TYPE	FAN			MOTOR			OPER WT (LB)	MANUFACTURER/ MODEL NO.	REMARKS			
				ACFM	MIN TSP (IN. WG)	RPM	DRIVE	BHP	HP				VOLTS/ PH/Hz	RPM	
W-CS-107-SF-01	LVEA	LVEA	VANE AXIAL	21,000	6.0	1770	DIRECT	28	40	460/3/60	1770	DP	1800	JOY 29-17-1000-1770	TWO STAGE, 1000 SERIES
W-CS-107-SF-02	LVEA	LVEA	VANE AXIAL	21,000	6.0	1770	DIRECT	28	40	460/3/60	1770	DP	1800	JOY 29-17-1000-1770	TWO STAGE, 1000 SERIES
W-CS-107-SF-03	LVEA	LVEA	VANE AXIAL	21,000	6.0	1770	DIRECT	28	40	460/3/60	1770	DP	1800	JOY 29-17-1000-1770	TWO STAGE, 1000 SERIES
W-CS-107-SF-04	LVEA	LVEA	VANE AXIAL	21,000	6.0	1770	DIRECT	28	40	460/3/60	1770	DP	1800	JOY 29-17-1000-1770	TWO STAGE, 1000 SERIES

CHEMICAL POT FEEDER SCHEDULE

UNIT NO.	LOCATION	MIN SIZE (GAL)	OPER WT (LB)	CONSTRUCTION PRESSURE (PSIG)	MANUFACTURER/ MODEL NO.	REMARKS
W-CS-107-CF-01	CORNER STATION	5	100	125	J.L. WINGERT 5	

AIR FILTER SCHEDULE

UNIT NO.	LOCATION	SERVICE	TYPE	ACFM	EFFICIENCY PERCENT (%)	QTY	SIZE (IN.)	PD (IN. WG)		MANUFACTURER/ MODEL NO.	REMARKS
								CLEAN	REPLACE- MENT		
W-CS-107-AF-01	CORNER STATION	LVEA	TA	43,000	90	32	24X24X12	0.56	1.2	FLANDERS FAE-95-4412H	PRR-FILTER
W-CS-107-AF-02	CORNER STATION	LVEA	TA	43,000	90	32	24X24X12	0.56	1.2	FLANDERS FRP-300	PRR-FILTER

* IN ACCORDANCE WITH ASHRAE STD 52.1

AIR COMPRESSOR SCHEDULE

UNIT NO.	LOCATION	SERVICE	TYPE	ACFM	PSIG	COMPRESSOR		OPER WT (LB)	MANUFACTURER/ MODEL NO.	REMARKS
						MIN TANK CAPACITY (GAL)	HP			
W-CS-107-AC-01	MECH ROOM	CORNER STATION	RECIPROCATING	17	100	120	5	460/3/60	KAISER SX-6	WITH AFTERCOOLER
W-CS-107-AC-02	MECH ROOM	CORNER STATION	RECIPROCATING	17	100	120	5	460/3/60	KAISER SX-6	WITH AFTERCOOLER

GLYCOL FEED PUMP SCHEDULE

UNIT NO.	LOCATION	SERVICE	FLOW RATE (GPM)	PRESSURE RANGE (PSIG)	HP	VOLTS/ PH/Hz	OPERATING WT (LBS)	MANUFACTURER/ MODEL NO.	TANK CAPACITY (GAL)	REMARKS
W-CS-107-GP-01	MECH ROOM	CORNER STATION	1.7	10-70	0.5	110/3/60	1000	J.L. WINGERT GL 100P	100	SELF-CONTAINED CONTROLS

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NO.	DATE	BY	CHKD	ENGR	PROJ	DESCRIPTION
1	5-15-98	CP	AA	AA	DP	ISSUED FOR AS-BUILT

AS-BUILT DRAWINGS

ISSUED FOR CONSTRUCTION		
DRAWN	CLP	6-24-96
CHECKED	ME	7/31/96
ENGINEER	AA	7/31/96
PROJ	MDW	7/8/96

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LASER INTERFEROMETER
 GRAVITATIONAL-WAVE OBSERVATORY
 SITE NO. 1 - HANFORD, WASHINGTON

TITLE	SCALE	CONTRACT NUMBER	PROJECT NUMBER
HVAC CORNER STATION EQUIPMENT SCHEDULES SHEET 1	NONE	PPI50969	8094
SHEET NUMBER		REVISIONS	
WA-H-501			