

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-03	LVEA BUILDING	OSB (LAB)	BUILT-UP	W-CS-107-SF-05 W-CS-107-SF-06	W-CS-107-CC-05 W-CS-107-CC-06	W-CS-107-HC-09 W-CS-107-HC-10	W-CS-107-HU-05 W-CS-107-HU-06	W-CS-107-AF-03	24,000	1,720	CONTRACTOR WILL SUBMIT SHOP DRAWINGS SHOWING CONSTRUCTION DETAILS FOR APPROVAL
W-MA-203-AH-01	MID STATION A	MID STATION A	BUILT-UP	W-MA-203-SF-01 W-MA-203-SF-02	W-MA-203-CC-01 W-MA-203-CC-02	-----	W-MA-203-HU-01 W-MA-203-HU-02	W-MA-203-AF-01 W-MA-203-AF-02	13,200	840	CONTRACTOR WILL SUBMIT SHOP DRAWINGS SHOWING CONSTRUCTION DETAILS FOR APPROVAL
W-MB-203-AH-01	MID STATION B	MID STATION B	BUILT-UP	W-MB-203-SF-01 W-MB-203-SF-02	W-MB-203-CC-01 W-MB-203-CC-02	-----	W-MB-203-HU-01 W-MB-203-HU-02	W-MB-203-AF-01 W-MB-203-AF-02	13,200	840	CONTRACTOR WILL SUBMIT SHOP DRAWINGS SHOWING CONSTRUCTION DETAILS FOR APPROVAL
W-EA-203-AH-01	END STATION A	END STATION A	BUILT-UP	W-EA-203-SF-01 W-EA-203-SF-02	W-EA-203-CC-01 W-EA-203-CC-02	-----	W-EA-203-HU-01 W-EA-203-HU-02	W-EA-203-AF-01 W-EA-203-AF-02	13,200	840	CONTRACTOR WILL SUBMIT SHOP DRAWINGS SHOWING CONSTRUCTION DETAILS FOR APPROVAL
W-EB-203-AH-01	END STATION B	END STATION B	BUILT-UP	W-EB-203-SF-01 W-EB-203-SF-02	W-EB-203-CC-01 W-EB-203-CC-02	-----	W-EB-203-HU-01 W-EB-203-HU-02	W-EB-203-AF-01 W-EB-203-AF-02	13,200	840	CONTRACTOR WILL SUBMIT SHOP DRAWINGS SHOWING CONSTRUCTION DETAILS FOR APPROVAL

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	CONV	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
W-MA-200-CH-01	MID STATION A	MID STATION A	AIR COOLED	WATER 40% GLYCOL	105	400	0°F	SCREW	ELECT MOTOR	55	77	R-22	54.8	42	105	15	8	1.1	460/3/60	112	229	4950	TRANE RTAA 70	ALL PERFORMANCE DATA ARE AT ACTUAL CONDITIONS, LOW AMBIENT (-10°F)
W-MA-200-CH-02	MID STATION A	MID STATION A	AIR COOLED	WATER 40% GLYCOL	105	400	0°F	SCREW	ELECT MOTOR	55	77	R-22	54.8	42	105	15	8	1.1	460/3/60	112	229	4950	TRANE RTAA 70	ALL PERFORMANCE DATA ARE AT ACTUAL CONDITIONS, LOW AMBIENT (-10°F), STANDBY
W-MB-200-CH-01	MID STATION B	MID STATION B	AIR COOLED	WATER 40% GLYCOL	105	400	0°F	SCREW	ELECT MOTOR	55	77	R-22	54.8	42	105	15	8	1.1	460/3/60	112	229	4950	TRANE RTAA 70	ALL PERFORMANCE DATA ARE AT ACTUAL CONDITIONS, LOW AMBIENT (-10°F)
W-MB-200-CH-02	MID STATION B	MID STATION B	AIR COOLED	WATER 40% GLYCOL	105	400	0°F	SCREW	ELECT MOTOR	55	77	R-22	54.8	42	105	15	8	1.1	460/3/60	112	229	4950	TRANE RTAA 70	ALL PERFORMANCE DATA ARE AT ACTUAL CONDITIONS, LOW AMBIENT (-10°F), STANDBY
W-EA-200-CH-01	END STATION A	END STATION A	AIR COOLED	WATER 40% GLYCOL	105	400	0°F	SCREW	ELECT MOTOR	55	77	R-22	54.8	42	105	15	8	1.1	460/3/60	112	229	4950	TRANE RTAA 70	ALL PERFORMANCE DATA ARE AT ACTUAL CONDITIONS, LOW AMBIENT (-10°F), STANDBY
W-EA-200-CH-02	END STATION A	END STATION A	AIR COOLED	WATER 40% GLYCOL	105	400	0°F	SCREW	ELECT MOTOR	55	77	R-22	54.8	42	105	15	8	1.1	460/3/60	112	229	4950	TRANE RTAA 70	ALL PERFORMANCE DATA ARE AT ACTUAL CONDITIONS, LOW AMBIENT (-10°F), STANDBY
W-EB-200-CH-01	END STATION B	END STATION B	AIR COOLED	WATER 40% GLYCOL	105	400	0°F	SCREW	ELECT MOTOR	55	77	R-22	54.8	42	105	15	8	1.1	460/3/60	112	229	4950	TRANE RTAA 70	ALL PERFORMANCE DATA ARE AT ACTUAL CONDITIONS, LOW AMBIENT (-10°F), STANDBY
W-EB-200-CH-02	END STATION B	END STATION B	AIR COOLED	WATER 40% GLYCOL	105	400	0°F	SCREW	ELECT MOTOR	55	77	R-22	54.8	42	105	15	8	1.1	460/3/60	112	229	4950	TRANE RTAA 70	ALL PERFORMANCE DATA ARE AT ACTUAL CONDITIONS, LOW AMBIENT (-10°F), 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-05	CORNER STATION	OSB	393	387	445	11,500	0.60	8	8	83.1	62.7	50.9	50	42	50	95	15	COLMAC DX	36 X 105	40% GLYCOL	
W-CS-107-CC-06	CORNER STATION	OSB	393	387	445	11,500	0.60	8	8	83.1	62.7	50.9	50	42	50	95	15	COLMAC DX	36 X 105	40% GLYCOL	
W-MA-203-CC-01	MID STATION A	MID STATION A	418	414	460	11,400	0.75	8	11	86.7	63.7	51	49.9	42	52.8	95	10	COLMAC DX	2130 X 601	40% GLYCOL	
W-MA-203-CC-02	MID STATION A	MID STATION A	418	414	460	11,400	0.75	8	11	86.7	63.7	51	49.9	42	52.8	95	10	COLMAC DX	2130 X 601	40% GLYCOL	
W-MB-203-CC-01	MID STATION B	MID STATION B	418	414	460	11,400	0.75	8	11	86.7	63.7	51	49.9	42	52.8	95	10	COLMAC DX	2130 X 601	40% GLYCOL	
W-MB-203-CC-02	MID STATION B	MID STATION B	418	414	460	11,400	0.75	8	11	86.7	63.7	51	49.9	42	52.8	95	10	COLMAC DX	2130 X 601	40% GLYCOL	
W-EA-203-CC-01	END STATION A	END STATION A	418	414	460	11,400	0.75	8	11	86.7	63.7	51	49.9	42	52.8	95	10	COLMAC DX	2130 X 601	40% GLYCOL	
W-EA-203-CC-02	END STATION A	END STATION A	418	414	460	11,400	0.75	8	11	86.7	63.7	51	49.9	42	52.8	95	10	COLMAC DX	2130 X 601	40% GLYCOL	
W-EB-203-CC-01	END STATION B	END STATION B	418	414	460	11,400	0.75	8	11	86.7	63.7	51	49.9	42	52.8	95	10	COLMAC DX	2130 X 601	40% GLYCOL	
W-EB-203-CC-02	END STATION B	END STATION B	418	414	460	11,400	0.75	8	11	86.7	63.7	51	49.9	42	52.8	95	10	COLMAC DX	2130 X 601	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-MA-203-TK-01	MID STATION A	CHILLED WATER	DIAPHRAM	23	150	110	285	EXTROL EX 60	
W-MB-203-TK-01	MID STATION B	CHILLED WATER	DIAPHRAM	23	150	110	285	EXTROL EX 60	
W-EA-203-TK-01	END STATION A	CHILLED WATER	DIAPHRAM	23	150	110	285	EXTROL EX 60	
W-EB-203-TK-01	END STATION B	CHILLED WATER	DIAPHRAM	23	150	110	285	EXTROL EX 60	

AIR SEPARATOR SCHEDULE

UNIT NO.	LOCATION	SERVICE	MIN CAP (GPM)	SIZE (IN.)	OPER WT (LB)	MANUFACTURER/ MODEL NO.	REMARKS
W-MA-203-AS-01	MID STATION A	CHILLED WATER	170	3"	200	BELL & GOSSETT R-3	
W-MB-203-AS-01	MID STATION B	CHILLED WATER	170	3"	200	BELL & GOSSETT R-3	
W-EA-203-AS-01	END STATION A	CHILLED WATER	170	3"	200	BELL & GOSSETT R-3	
W-EB-203-AS-01	END STATION B	CHILLED WATER	170	3"	200	BELL & GOSSETT R-3	

LIGO-D960345-01-0

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

TITLE: HVAC EQUIPMENT SCHEDULES SHEET 1

SCALE: NONE CONTRACT NUMBER: PP150969 PROJECT NUMBER: 8094

SHEET NUMBER: **WA-H-003**



100 WEST WALNUT STREET
 PASADENA, CALIFORNIA



CALIFORNIA INSTITUTE OF TECHNOLOGY
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

ISSUED FOR CONSTRUCTION
 DRAWN: CLP 6-24-98
 CHECKED: ME 7/3/98
 ENGINEER: AA 7/3/98
 PROJ: MDW 7/8/98

AS-BUILT DRAWINGS

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

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