

**ELECTRIC HUMIDIFIER SCHEDULE**

UNIT NO	LOCATION	SERVICE	TYPE	CAPACITY LB/H	HEATER			MANUFACTURER/ MODEL NO	REMARKS
					KW	V	PH		
W-CS-107-HU-01	CORNER STATION	LVEA	ELECTRIC	100	34	460	3	60	PURE PS DDR 14.5 DOMESTIC WATER W/ BLOWDOWN CYCLE
W-CS-107-HU-02	CORNER STATION	LVEA	ELECTRIC	100	34	460	3	60	PURE PS DDR 14.5 DOMESTIC WATER W/ BLOWDOWN CYCLE
W-CS-107-HU-03	CORNER STATION	LVEA	ELECTRIC	100	34	460	3	60	PURE PS DDR 14.5 DOMESTIC WATER W/ BLOWDOWN CYCLE
W-CS-107-HU-04	CORNER STATION	LVEA	ELECTRIC	100	34	460	3	60	PURE PS DDR 14.5 DOMESTIC WATER W/ BLOWDOWN CYCLE

**AIR INLET & OUTLET SCHEDULE**

UNIT NO	DESCRIPTION	FACE SIZE	NECK SIZE IN X IN	CONSTRUCTION	MANUFACTURER/ MODEL NO	REMARKS
HF-1	HEPA FILTER	48 X 24	12" Ø	STEEL	FARR CPY RG	5" DEEP FILTER, (1), (2)
HF-2	HEPA FILTER	24 X 24	10" Ø	STEEL	FARR CPY RG	5" DEEP FILTER, (1), (2)
CD-1	CEILING DIFFUSER	24 X 24	(3)	ALUMINUM	TITUS PDS	W/OBD
CD-2	CEILING DIFFUSER	N/A	(3)	ALUMINUM	TITUS TMRA-AA	W/BUTTERFLY DAMPER
RR-1	RETURN REGISTER	(3)	N/A	ALUMINUM	TITUS 3FL	W/OBB
RR-2	RETURN REGISTER	(3)	N/A	ALUMINUM	TITUS 4FL	W/OBB
RG-1	RETURN GRILLE	24 X 24	N/A	ALUMINUM	TITUS BF	
RG-2	RETURN GRILLE	(3)	(3)	ALUMINUM	TITUS 355DR	
SR-1	SUPPLY REGISTER	(3)	(3)	ALUMINUM	TITUS 300FL	W/OBD

(1) PROVIDE WITH HANGING TAPS, STAINLESS STEEL TRIM, 1/2" INSULATION WITH ALUMINUM FOIL  
 (2) INITIAL PRESSURE DROP = 0.50" WC, REPLACEMENT PRESSURE DROP = 2.0" WC  
 (3) SEE PLANS

**VIBRATION ISOLATOR SCHEDULE**

UNIT NO	NAME	LOCATION	(2) ISOLATOR TYPE	(3) SPRING DEFLECTION (INCHES)	(2) FRAME TYPE	(2) SEISMIC RESTRAINT	REMARKS
W-CS-107-SF-01, 02, 03, 04	VANE AXIAL FAN	CORNER STATION	B	1.0	G	SL	FANS (TYP 4)
W-CS-190-CH-01, 02, 03	AIR-COOLED WATER CHILLER	CORNER STATION	D	1.0	-	(1)	CHILLERS (TYP 3)
W-CS-190-WP-01, 02, 03	CHILLED WATER PUMP	CORNER STATION	C	1.0	G	SL	PUMPS (TYP 3)
W-CS-107-AC-01, 02	AIR COMPRESSOR	CORNER STATION	C	1.0	G	SL	COMPRESSORS (TYP 2)
W-CS-107-GP-01	GLYCOL FEED PUMP	CORNER STATION	C	1.0	G	SL	

(1) TYPE D ISOLATOR HOUSING INCLUDES SEISMIC RESTRAINTS  
 (2) SEE SPECIFICATIONS FOR CODE LETTER  
 (3) STATIC DEFLECTION 3 HZ

**ELECTRIC DUCT HEATER SCHEDULE**

UNIT NO	LOCATION	SERVICE		HEATING CAPACITY (KW)	NUMBER OF STAGES	VOLTS/ PH/PHZ	DUCT SIZE (IN)	MANUFACTURER/ MODEL NO	REMARKS
		BUILDING	ROOM						
W-CS-107-HC-1A	MECH ROOM	LVEA	LASER AREA - 1	80	SCR	460/3/60	48X36	INDECO CUSTUM FINNED-TUBE	
W-CS-107-HC-1B	MECH ROOM	LVEA	LASER AREA - 1	50	SCR	460/3/60	48X36	INDECO CUSTUM FINNED-TUBE	
W-CS-107-HC-2A	MECH ROOM	LVEA	LASER AREA - 2	100	SCR	460/3/60	48X36	INDECO CUSTUM FINNED-TUBE	
W-CS-107-HC-2B	MECH ROOM	LVEA	LASER AREA - 2	100	SCR	460/3/60	48X36	INDECO CUSTUM FINNED-TUBE	
W-CS-107-HC-3A	MECH ROOM	LVEA	LASER AREA - 3	100	SCR	460/3/60	48X36	INDECO CUSTUM FINNED-TUBE	
W-CS-107-HC-3B	MECH ROOM	LVEA	LASER AREA - 3	100	SCR	460/3/60	48X36	INDECO CUSTUM FINNED-TUBE	
W-CS-107-HC-04	MECH ROOM	LVEA	LASER AREA - 4	100	SCR	460/3/60	48X36	INDECO CUSTUM FINNED-TUBE	
W-CS-107-HC-05	MECH ROOM	LVEA	LASER AREA - 5	100	SCR	460/3/60	48X36	INDECO CUSTUM FINNED-TUBE	
W-CS-107-HC-06	MECH ROOM	LVEA	MECHANICAL ROOM	60	4	460/3/60	48X24	INDECO CUSTUM FINNED-TUBE	
W-CS-107-HC-07	MECH ROOM	LVEA	OUTSIDE AIR SUPPLY	60	4	460/3/60	24X24	INDECO CUSTUM FINNED-TUBE	
W-CS-107-HC-08	MECH ROOM	LVEA	OUTSIDE AIR SUPPLY	60	4	460/3/60	24X24	INDECO CUSTUM FINNED-TUBE	

**NOTES:**

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

**DUCT SILENCER SCHEDULE**

UNIT NO	LOCATION	SERVICE		CFM	DIMENSIONS W X D X L	PD IN WC	MANUFACTURER/ MODEL NO	REMARKS
		BUILDING	ROOM					
W-CS-107-ST-1A	MECH ROOM 107	LVEA	LASER AREA - 1	10,260	48X36X120	0.15	INDUSTRIAL ACOUSTICS CO	
W-CS-107-ST-1B	MECH ROOM 107	LVEA	LASER AREA - 1	5,130	48X36X120	0.15	INDUSTRIAL ACOUSTICS CO	
W-CS-107-ST-2A	MECH ROOM 107	LVEA	LASER AREA - 2	11,400	48X36X120	0.10	INDUSTRIAL ACOUSTICS CO	
W-CS-107-ST-2B	MECH ROOM 107	LVEA	LASER AREA - 2	11,400	48X36X120	0.10	INDUSTRIAL ACOUSTICS CO	
W-CS-107-ST-3A	MECH ROOM 107	LVEA	LASER AREA - 3	10,260	48X36X120	0.10	INDUSTRIAL ACOUSTICS CO	
W-CS-107-ST-3B	MECH ROOM 107	LVEA	LASER AREA - 3	10,260	48X36X120	0.10	INDUSTRIAL ACOUSTICS CO	
W-CS-107-ST-04	MECH ROOM 107	LVEA	LASER AREA - 4	9,690	48X36X120	0.15	INDUSTRIAL ACOUSTICS CO	
W-CS-107-ST-05	MECH ROOM 107	LVEA	LASER AREA - 5	10,830	48X36X120	0.15	INDUSTRIAL ACOUSTICS CO	
W-CS-107-ST-06	MECH ROOM 107	LVEA	MECHANICAL ROOM #107	6,840	48X24X84	0.07	INDUSTRIAL ACOUSTICS CO	
W-CS-107-ST-07	MECH ROOM 107	LVEA	GENERAL RETURN OF LVEA	26,600	60X60X84	0.10	INDUSTRIAL ACOUSTICS CO	
W-CS-107-ST-08	MECH ROOM 107	LVEA	GENERAL RETURN OF LVEA	26,600	60X60X84	0.10	INDUSTRIAL ACOUSTICS CO	
W-CS-107-ST-09	MECH ROOM 107	LVEA	GENERAL RETURN OF LVEA	26,600	60X60X84	0.10	INDUSTRIAL ACOUSTICS CO	
W-CS-107-ST-15	MECH ROOM 107	LVEA	OUTSIDE AIR	3,125	24X24X84	0.05	INDUSTRIAL ACOUSTICS CO	
W-CS-107-ST-16	MECH ROOM 107	LVEA	OUTSIDE AIR	3,125	24X24X84	0.05	INDUSTRIAL ACOUSTICS CO	

(1) TYPE D ISOLATOR HOUSING INCLUDES SEISMIC RESTRAINTS

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**LIGO-D960380-01-0**

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

TITLE HVAC CORNER STATION EQUIPMENT SCHEDULES SHEET 2  
 SCALE NONE CONTRACT NUMBER PPI50969 PROJECT NUMBER 8094  
 SHEET NUMBER **WA-H-502**



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

**AS-BUILT DRAWINGS**

ISSUED FOR AS-BUILT

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

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