INPUT/OUTPUT SUMMARY FOR AIR HANDLING UNIT AH-03

SYSTEM, APPARATUS, OR AREA POINT DESCRIPTION	INPUTS: ANALOG: MEASURED: TEMPERATURE	PRESSURE	RH	KW	AIR FLOW	LEVEL	GALLONS	VIBRATIONS	CALCULATED: KWH	ENTHALPY	RUN TIME	EFFICIENCY	WET BULB TEMP	BINARY: STATUS	FILTER	SMOKE	FREEZE	AIR FLOW	METER			OUTPUTS: DIGITAL: OFF-ON	OFF-AUTO-ON	OFF-HI-LO	OPEN-CLOSE	MULTI-STAGE			ANALOG: DAMPER POSITION	VALVE POSITION	SET POINT ADJUSTMENT	VANE POSITION	SCR CONTROL			SYSTEM FEATURES: ALARMS: HI ANALOG	LOW ANALOG	HI BINARY	LOW BINARY	PROOF			PROGRAMS: TIME SCHEDULING	DEMAND LIMITING	DUTY CYCLE	START/STOP OPTION	ENTHALPY OPTION	SMOKE CNT	TREND	ALARM INSTRUCT	MAINT WK ORD			GENERAL: COLOR GRAPHIC							SUPPLEMENTARY NOTES
OUTSIDE TEMERATURE	●																																																																		
OUTSIDE RELATIVE HUMIDITY (H)			●																																																																
PREHEAT COIL, HC-11	●													●												●					●					●									●			●	●																
PREHEAT COIL, HC-12	●													●												●					●					●									●			●	●																
AIR FILTER, AF-03 (TYP 2)		●																																		●													●																	2 SENSORS
COOLING COIL, CC-05	●																													●						●												●	●																
COOLING COIL, CC-06	●																													●						●												●	●																
HEATING COIL, HC-09	●													●												●										●									●			●	●																
HEATING COIL, HC-10	●													●												●										●									●			●	●																
HUMIDIFIER, HU-05			●											●												●					●					●	●								●			●	●																
HUMIDIFIER, HU-06			●											●												●					●					●	●								●			●	●																
SUPPLY FAN, SF-05								●			●			●				●				●										●				●			●			●			●			●	●																
SUPPLY FAN, SF-06								●			●			●				●				●										●				●			●			●			●			●	●																
COLD AIR DECK	●	●			●																															●	●												●																	
WARM AIR DECK	●	●			●																															●	●												●																	
WARM AIR RELATIVE HUMIDITY			●																																	●													●																	
SPACE AVERAGE RELATIVE HUMIDITY			●																																	●	●												●																	
ROOM TEMPERATURE (TYPICAL 17 ZONES)	●																																			●	●												●																	
SMOKE DETECTOR (SD-02)																●																																	●		●															RETURN AIR
MIXING AIR TEMP	●																																																																	
MIXING AIR RELATIVE HUMIDITY			●																																																															
ROOM PRESSURIZATION (TYP 2)		●																																			●																													
AIR FLOW DIAGRAM																																																																	
FUME HOOD EXHAUST SYSTEM (TYP 2)											●			●								●																							●				●															
HEPA FILTER		●																																		●													●																	LOCATE SENSOR AT THE MOST REMOTE HEPA FILTER
RETURN & OUTSIDE AIR DAMPERS (TYP 3)																													●																				●															
FLOOR PLANS																																																																		
VIBRATIONS FOR FANS								●																												●																													

INPUT/OUTPUT SUMMARY FOR AIR HANDLING UNIT AH-04

SYSTEM, APPARATUS, OR AREA POINT DESCRIPTION	INPUTS: ANALOG: MEASURED: TEMPERATURE	PRESSURE	RH	KW	AIR FLOW	LEVEL	GALLONS	VIBRATIONS	CALCULATED: KWH	ENTHALPY	RUN TIME	EFFICIENCY	WET BULB TEMP	BINARY: STATUS	FILTER	SMOKE	FREEZE	AIR FLOW	METER			OUTPUTS: DIGITAL: OFF-ON	OFF-AUTO-ON	OFF-HI-LO	OPEN-CLOSE	MULTI-STAGE			ANALOG: DAMPER POSITION	VALVE POSITION	SET POINT ADJUSTMENT	VANE POSITION	SCR CONTROL			SYSTEM FEATURES: ALARMS: HI ANALOG	LOW ANALOG	HI BINARY	LOW BINARY	PROOF			PROGRAMS: TIME SCHEDULING	DEMAND LIMITING	DUTY CYCLE	START/STOP OPTION	ENTHALPY OPTION	SMOKE CNT	TREND	ALARM INSTRUCT	MAINT WK ORD			GENERAL: COLOR GRAPHIC							SUPPLEMENTARY NOTES
OUTSIDE TEMERATURE	●		●							●			●																																																					
OUTSIDE RELATIVE HUMIDITY (H)			●																																																															
PREHEAT COIL, HC-13	●													●												●					●					●									●			●	●																
AIR FILTER, AF-03		●																																		●													●																	
COOLING COIL, CC-05	●																													●						●												●	●																
HUMIDIFIER, HU-05			●											●												●					●					●	●								●			●	●																
SUPPLY FAN								●			●			●				●				●										●				●			●			●			●			●	●																
SUPPLY AIR	●	●																																		●	●												●																	
SUPPLY AIR RELATIVE HUMIDITY			●																																	●													●																	
ROOM TEMPERATURE (TYPICAL 20 ZONES)	●																																			●	●												●																	
SPACE AVERAGE RELATIVE HUMIDITY			●																																	●	●												●																	SEE PLANS FOR LOCATION
ZONE DUCT HEATERS (TYPICAL 20 ZONES)	●													●												●																								●															
EXHAUST FAN, EF-01											●			●								●																	●			●			●			●	●														
EXHAUST FAN, EF-02											●			●								●																	●			●			●			●	●														
SMOKE DETECTOR																●																																	●															
AIR FLOW DIAGRAM																																																																	
ECONOMIZER DAMPERS																													●																				●															
FLOOR PLANS																																																																		

NOTES:

1. FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES SEE SHEETS WA-H-001 AND WA-H-002.
2. FOR SEQUENCE OF OPERATION SEE SHEET WA-H-141.

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REFERENCES: DRAWING NO.	DESCRIPTION

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

ISSUED FOR CONSTRUCTION		
DRAWN	CLP	6-24-96
CHECKED	ME	7/3/96
ENGINEER	AA	7/3/96
PROJ	MDW	7/18/96

AS-BUILT DRAWINGS

PARSONS
100 WEST WALNUT STREET
PASADENA, CALIFORNIA

LIGO
CALIFORNIA INSTITUTE OF TECHNOLOGY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

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

TITLE: HVAC CORNER STATION SEQUENCES OF OPERATION & I/O SUMMARY SHEET 2

SCALE: NONE | CONTRACT NUMBER: PP150969 | PROJECT NUMBER: 8094

SHEET NUMBER: WA-H-142 | REVISIONS: 1

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LIGOWAF.BDR

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