INPUT/OUTPUT SUMMARY FOR AIR HANDLING UNIT AH-03

SYSTEM, APPARATUS, OR AREA POINT DESCRIPTION	INPUTS – ANALOG – MEASURED							INPUTS – ANALOG – CALCULATED					INPUTS – BINARY								OUTPUTS – DIGITAL				OUTPUTS – ANALOG				SYSTEM FEATURES – ALARMS							SYSTEM FEATURES – PROGRAMS									GENERAL						SUPPLEMENTARY NOTES
	TEMPERATURE	PRESSURE	RH	KW	AIR FLOW	LEVEL	GALLONS	VIBRATIONS	KWH	ENTHALPY	RUN TIME	EFFICIENCY	WET BULB TEMP	STATUS	FILTER	SMOKE	FREEZE	AIR FLOW	METER		OFF-ON	OFF-AUTO-ON	OFF-HI-LO	OPEN-CLOSE	MULTI-STAGE	DAMPER POSITION	VALVE POSITION	SET POINT ADJUSTMENT	VANE POSITION	SCR CONTROL	HI ANALOG	LOW ANALOG	HI BINARY	LOW BINARY	PROOF			TIME SCHEDULING	DEMAND LIMITING	DUTY CYCLE	START/STOP OPTION	ENTHALPY OPTION	SMOKE CNT	TREND	ALARM INSTRUCT	MAINT WK ORD			COLOR GRAPHIC						
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							INPUTS – ANALOG – CALCULATED					INPUTS – BINARY								OUTPUTS – DIGITAL				OUTPUTS – ANALOG				SYSTEM FEATURES – ALARMS							SYSTEM FEATURES – PROGRAMS									GENERAL						SUPPLEMENTARY NOTES
	TEMPERATURE	PRESSURE	RH	KW	AIR FLOW	LEVEL	GALLONS	VIBRATIONS	KWH	ENTHALPY	RUN TIME	EFFICIENCY	WET BULB TEMP	STATUS	FILTER	SMOKE	FREEZE	AIR FLOW	METER		OFF-ON	OFF-AUTO-ON	OFF-HI-LO	OPEN-CLOSE	MULTI-STAGE	DAMPER POSITION	VALVE POSITION	SET POINT ADJUSTMENT	VANE POSITION	SCR CONTROL	HI ANALOG	LOW ANALOG	HI BINARY	LOW BINARY	PROOF			TIME SCHEDULING	DEMAND LIMITING	DUTY CYCLE	START/STOP OPTION	ENTHALPY OPTION	SMOKE CNT	TREND	ALARM INSTRUCT	MAINT WK ORD			COLOR GRAPHIC						
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.

REFERENCES	
DRAWING NO.	DESCRIPTION

REVISIONS						
NO.	DATE	BY	CHKD	ENGR	PROJ	DESCRIPTION
A	4-19-96	CLP	ME	AA		FINAL DESIGN REVIEW & BID

DRAWN	CLP
CHECKED	
ENGINEER	
PROJ	

PARSONS
100 WEST WALNUT STREET
PASADENA, CALIFORNIA

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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: A

LIGO-D960358-A-□

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