DATE: 06/13:96 TIME: 16:33:38
DESIGN FILE: I:\ligo\site2\mu\lah142.soz

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	ANALOG 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	ANALOG 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 LA-H-001 AND LA-H-002.
2. FOR SEQUENCE OF OPERATION SEE SHEET LA-H-141.

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REFERENCES: DRAWING NO.	DESCRIPTION

REVISIONS: NO.	DATE	BY	CHKD	ENGR	PROJ	DESCRIPTION
A	6-14-96	CLP	MW	MA	AGM	FINAL DESIGN REVIEW

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.2 - LIVINGSTON, LOUISIANA

TITLE	SCALE	CONTRACT NUMBER	PROJECT NUMBER
HVAC CORNER STATION SEQUENCES OF OPERATION & I/O SUMMARY SHEET 2	NONE	PP150969	8094
	SHEET NUMBER: LA-H-142		REVISIONS: A

LIGOLAF.BOR

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