DATE: 10/07/98 TIME: 14:16:57
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	INPUTS: ANALOG: CALCULATED: KWH	ENTHALPY	RUN TIME	EFFICIENCY	WET BULB TEMP	INPUTS: BINARY: STATUS	FILTER	SMOKE	FREEZE	AIR FLOW	METER	OUTPUTS: DIGITAL: OFF-ON	OFF-AUTO-ON	OFF-HI-LO	OPEN-CLOSE	MULTI-STAGE	OUTPUTS: ANALOG: DAMPER POSITION	VALVE POSITION	SET POINT ADJUSTMENT	VANE POSITION	SCR CONTROL	SYSTEM FEATURES: ALARMS: HI ANALOG	LOW ANALOG	HI BINARY	LOW BINARY	PROOF	SYSTEM FEATURES: 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	●													●									●			●			●									●	●		
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								●																						●												

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.

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	INPUTS: ANALOG: CALCULATED: KWH	ENTHALPY	RUN TIME	EFFICIENCY	WET BULB TEMP	INPUTS: BINARY: STATUS	FILTER	SMOKE	FREEZE	AIR FLOW	METER	OUTPUTS: DIGITAL: OFF-ON	OFF-AUTO-ON	OFF-HI-LO	OPEN-CLOSE	MULTI-STAGE	OUTPUTS: ANALOG: DAMPER POSITION	VALVE POSITION	SET POINT ADJUSTMENT	VANE POSITION	SCR CONTROL	SYSTEM FEATURES: ALARMS: HI ANALOG	LOW ANALOG	HI BINARY	LOW BINARY	PROOF	SYSTEM FEATURES: 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	●																								●					●									●	●		
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																																									●	

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REFERENCES

DRAWING NO.	DESCRIPTION

REVISIONS

NO.	DATE	BY	CHKD	ENGR	PROJ	DESCRIPTION
1	8-7-98	DJB				ISSUED FOR AS-BUILT

ISSUED FOR CONSTRUCTION		
DRAWN	CLP	11-15-96
CHECKED	MN	10-25-96
ENGINEER	AA	1-23-96
PROJ	TDM	11-15-96

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. 2 - LIVINGSTON, LOUISIANA

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

SCALE	CONTRACT NUMBER	PROJECT NUMBER
NONE	PP150969	8094

SHEET NUMBER: LA-H-142
REVISIONS: 1

LIGOLAF.BDR

Wed Oct 7 14:16:23 1998 c:\plot\perf\53-30.perf N:\DUELIES\E3082\WU142.PRF