Tue Sep 10 07:26:08 1996 s3-v18b2 J:\PLOTS\QUEUES\V18B2\MU142.PRF

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DATE: 09/10/96 TIME: 07:26:45
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	●													●					●				●							●				●					●	●		
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	●																								●					●									●	●		
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.

REFERENCES

DRAWING NO.	DESCRIPTION

REVISIONS

NO.	DATE	BY	CHKD	ENGR	PROJ	DESCRIPTION
C	9-10-96	CLP	~~MZ~~	~~AA~~	TDM	BID ADDENDUM #2
B	7-24-96	CLP	ME	AA	TDM	ISSUED FOR BID
A	6-14-96	CLP	ME	AA	TDM	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: 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: C

LIGO-D960978-C-O

LIGOLAF.BDR