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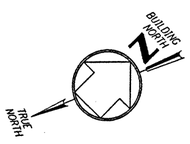
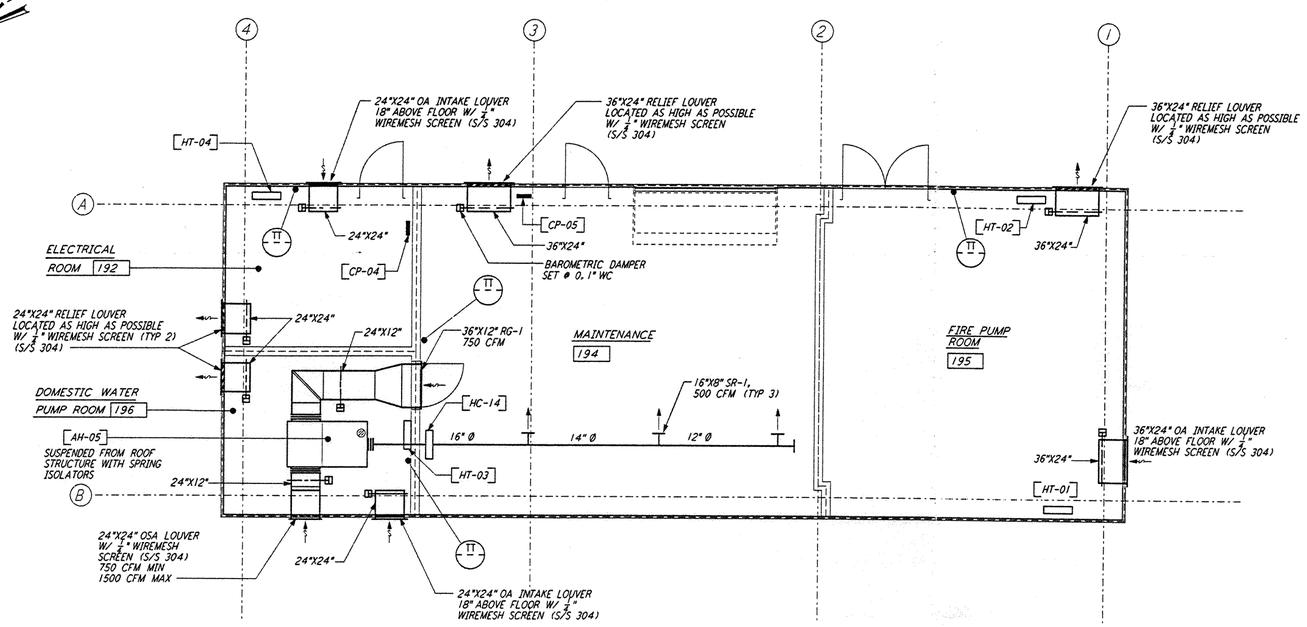




MAINTENANCE BUILDING FLOOR PLAN

¼" = 1'-0"

NOTES:

1. FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES SEE SHEETS LA-H-001 AND LA-H-002.

SEQUENCE OF OPERATION:

MAINTENANCE ROOM:

UPON A SIGNAL FROM THE CENTRAL CONTROL SYSTEM THE AIR HANDLING UNIT (AH-05) SHALL START, THE DDC CONTROL SHALL PERFORM THE FOLLOWING:

A. THE DDC CONTROLS SHALL MODULATE THE CONTROL DAMPERS ON THE OUTSIDE AIR AND THE RETURN AIR DUCTS TO MAINTAIN THE ROOM TEMPERATURE AT 72°F AND MAINTAIN 750 CFM OF OUTSIDE AIR MINIMUM.

B. WHEN THE ROOM TEMPERATURE DROPS BELOW 68°F THE DDC CONTROL SHALL ACTIVATE THE ELECTRIC DUCT HEATER (HC-14) TO MAINTAIN THE ROOM AT 68°F.

C. AFTER BUSINESS HOURS THE DDC CONTROLS SHALL CLOSE OFF THE OUTSIDE AIR DAMPER AND FULLY OPEN THE RETURN AIR DAMPER AND MAINTAIN THE ROOM TEMPERATURE AT 65°F.

D. IF THE ROOM TEMPERATURE DROPS BELOW 50°F, THE DDC CONTROLS SHALL REPORT AN ALARM SIGNAL TO FACILITY CONTROL AND MONITORING SYSTEM AT THE CORNER STATION.

FIRE PUMP ROOM:

A. THE PACKAGED CONTROLS ON THE ELECTRIC CONVECTOR SHALL MAINTAIN THE ROOM TEMPERATURE AT 60°F.

B. IF THE ROOM TEMPERATURE RISES ABOVE 104°F THE DDC CONTROLS SHALL OPEN THE GRAVITY VENTILATION DAMPERS. THE GRAVITY VENTILATION DAMPERS SHALL CLOSE WHEN THE ROOM TEMPERATURE DROPS BELOW 95°F.

C. IF THE ROOM TEMPERATURE RISES TO 110°F OR DROPS BELOW 50°F, THE DDC CONTROLS SHALL REPORT AN ALARM SIGNAL TO FACILITY CONTROL AND MONITORING SYSTEM AT THE CORNER STATION.

DOMESTIC WATER PUMP ROOM:

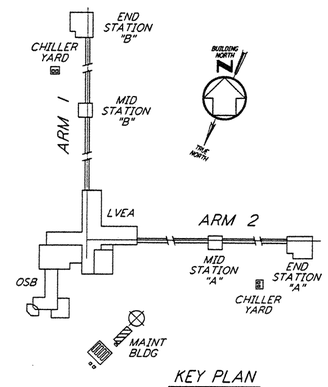
SAME AS FIRE PUMP ROOM.

ELECTRICAL ROOM:

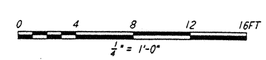
SAME AS FIRE PUMP ROOM.

INPUT/OUTPUT SUMMARY FOR MAINTENANCE BUILDING

SYSTEM, APPARATUS, OR AREA POINT DESCRIPTION	INPUTS: ANALOG MEASURED: TEMPERATURE	PRESSURE	RH	KW	AIR FLOW	LEVEL	GALLONS	GPM	KWH	ANALOG CALCULATED: 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
AIR HANDLING UNIT, AH-05											●			●	●					●					●											●							●		●	PROVIDE NIGHT TIME SETBACK
HEATING COIL, HC-14	●													●						●					●			●		●	●					●						●	●			
CONVECTOR, HT-01														●																													●			
CONVECTOR, HT-02														●																													●			
CONVECTOR, HT-03														●																													●			
CONVECTOR, HT-04														●																													●			
ROOM TEMPERATURE (195)	●																													●	●											●			
ROOM TEMPERATURE (194)	●																													●	●											●			
ROOM TEMPERATURE (196)	●																													●	●											●			
ROOM TEMPERATURE (192)	●																													●	●											●			
GRAVITY DAMPERS (RM 195)																							●																						
GRAVITY DAMPERS (RM 196)																							●																						
GRAVITY DAMPERS (RM 192)																							●																						
FLOOR PLAN																																											●		



KEY PLAN



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REFERENCES: DRAWING NO.	DESCRIPTION

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

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LASER INTERFEROMETER GRAVITATIONAL-WAVE OBSERVATORY
SITE NO. 2 - LIVINGSTON, LOUISIANA

TITLE: HVAC CORNER STATION MAINTENANCE BUILDING FLOOR PLAN

SCALE	CONTRACT NUMBER	PROJECT NUMBER
AS NOTED	PP150969	8094

SHEET NUMBER: LA-H-116
REVISIONS: A

LIGOLAF3.BDR

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