

MAINTENANCE BUILDING FLOOR PLAN
 1/4" = 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 CONNECTOR 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.

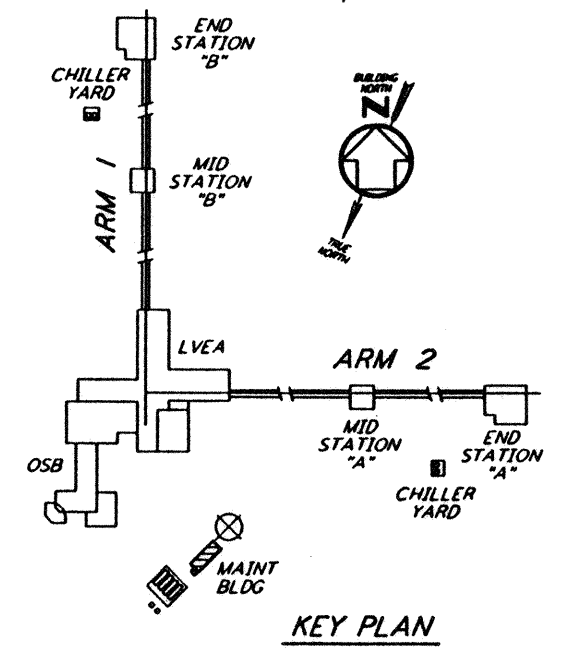
- DOMESTIC WATER PUMP ROOM:**
 SAME AS FIRE PUMP ROOM.
- ELECTRICAL ROOM:**
 SAME AS FIRE PUMP ROOM.

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INPUT/OUTPUT SUMMARY FOR MAINTENANCE BUILDING

SYSTEM APPARATUS, OR AREA POINT DESCRIPTION	INPUTS		OUTPUTS		SYSTEM FEATURES		GENERAL	SUPPLEMENTARY NOTES
	ANALOG		DIGITAL	ANALOG	ALARMS	PROGRAMS		
	MEASURED	CALCULATED						
AIR HANDLING UNIT, AH-05								PROVIDE NIGHT TIME SETBACK
HEATING COIL, HC-14								
CONNECTOR, HT-01								
CONNECTOR, HT-02								
CONNECTOR, HT-03								
CONNECTOR, 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
 1/4" = 1'-0"

NO.	DATE	BY	CHKD	ENGR	PROJ	DESCRIPTION
B	7-24-96	CLP	ME	AA	TOM	ISSUED FOR BID
A	6-14-96	CLP	ME	AA	TOM	FINAL DESIGN REVIEW

DRAWN	CLP
CHECKED	
ENGINEER	
PROJ	

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 MAINTENANCE BUILDING FLOOR PLAN

SCALE: AS NOTED

CONTRACT NUMBER: PP150969

PROJECT NUMBER: 8094

LA-H-116

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