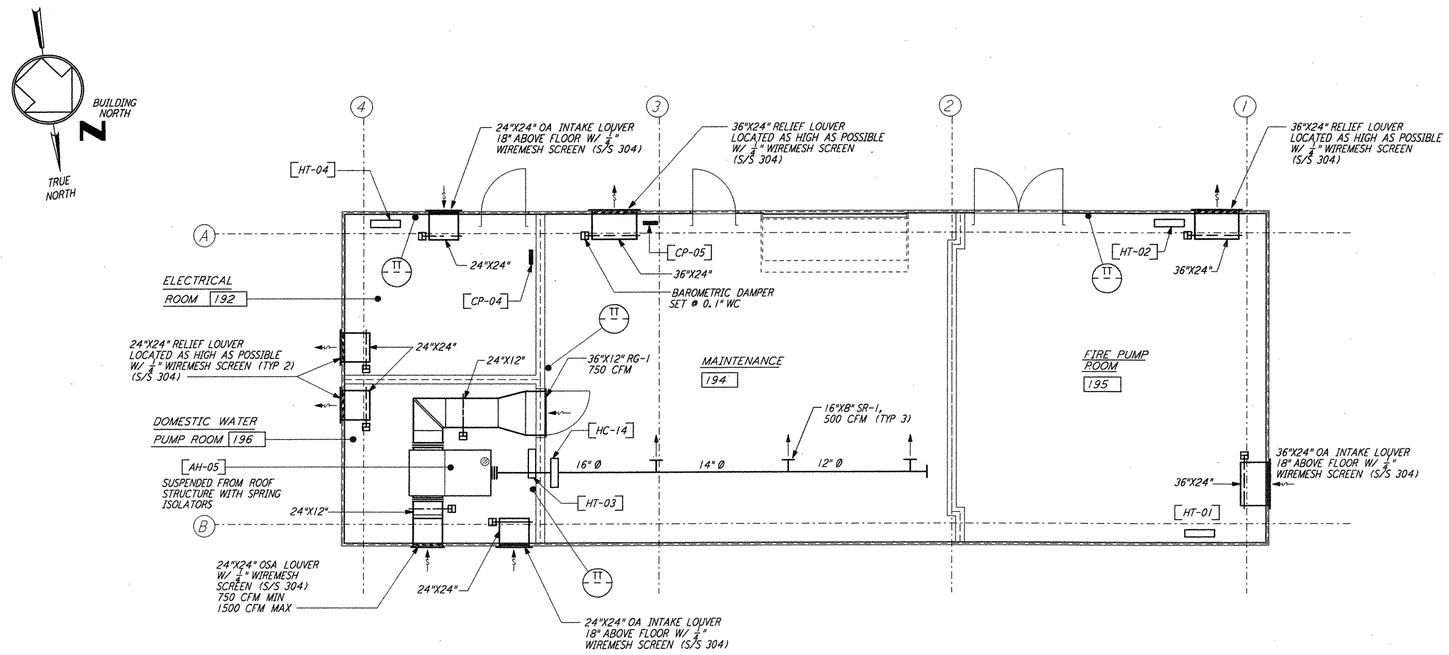


MAINTENANCE BUILDING FLOOR PLAN

1/4" = 1'-0"

NOTES:

1. FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES SEE SHEETS WA-H-001 AND WA-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:

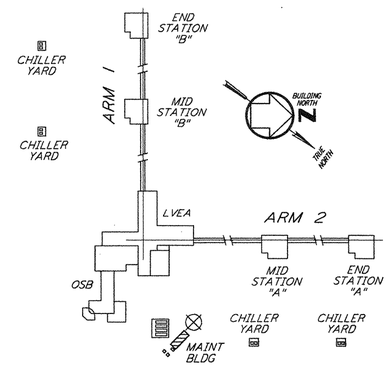
SAME AS FIRE PUMP ROOM.

ELECTRICAL ROOM:

SAME AS FIRE PUMP ROOM.

INPUT/OUTPUT SUMMARY FOR MAINTENANCE BUILDING

SYSTEM, APPARATUS, OR AREA POINT DESCRIPTION	INPUTS – ANALOG – MEASURED							INPUTS – ANALOG – CALCULATED					INPUTS – BINARY								OUTPUTS – DIGITAL				OUTPUTS – ANALOG				SYSTEM FEATURES – ALARMS							SYSTEM FEATURES – PROGRAMS								GENERAL								SUPPLEMENTARY NOTES
	TEMPERATURE	PRESSURE	RH	KW	AIR FLOW	LEVEL	GALLONS	GPM	KWH	ENTHALPY	RUN TIME	EFFICIENCY	WET BULB TEMP	STATUS	FILTER	SMOKE	FREEZE	AIR FLOW	METER		OFF-ON	OFF-AUTO-ON	OFF-HI-LO	OPEN-CLOSE	MULTI-STAGE		DAMPER POSITION	VALVE POSITION	SET POINT ADJUSTMENT	VANE POSITION	SCR CONTROL		HI ANALOG	LOW ANALOG	HI BINARY	LOW BINARY	PROOF			TIME SCHEDULING	DEMAND LIMITING	DUTY CYCLE	START/STOP OPTION	ENTHALPY OPTION	SMOKE CNT	TREND	ALARM INSTRUCT	MAINT WR ORD			COLOR GRAPHIC							
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

0 4 8 12 16FT
1/4" = 1'-0"

LIGO-D960353-01-O

REFERENCES		REVISIONS							
DRAWING NO.	DESCRIPTION	NO.	DATE	BY	CHKD	ENGR	PROJ	DESCRIPTION
		1	5-15-98	CP	AA	AA		ISSUED FOR AS-BUILT

ISSUED FOR CONSTRUCTION

DRAWN	CLP	6-24-96
CHECKED	ME	7/3/96
ENGINEER	AA	7/3/96
PROJ	MDW	7/8/96

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. 1 - HANFORD, WASHINGTON

TITLE: HVAC CORNER STATION MAINTENANCE BUILDING FLOOR PLAN

SCALE	CONTRACT NUMBER	PROJECT NUMBER
AS NOTED	PP150969	8094

SHEET NUMBER: WA-H-116
REVISIONS: 1

LIGOWAF3.BDR

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