TRUE NORTH

BAROMETRIC DAMPER SET @ 0.1" WC – 24"X24" OA INTAKE LOUVER *36"X24" RELIEF LOUVER* — 36"X24" RELIEF LOUVER LOCATED AS HIGH AS POSSIBLE 18" ABOVE FLOOR W/ 4" WIREMESH SCREEN (S/S 304)/ LOCA,TED AS HIGH AS POSSIBLE W/ ¼ " WIREMESH SCREEN (S/\$ 304) W∕ ¼" WIREMESH SCREEN [HT-04] -----[HT-02] ·-----ELECTRICAL ROOM [192 MAINTENANCE 24"X24" RELIEF LOUVER LOCA,TED AS HIGH AS POSSIBLE 194  $W/\frac{1}{4}$ " WIREMESH SCREEN (TYP 2) (S/\$ 304) — < 750 CFM - 16"X8" SR-1, 500 CFM (TYP 3) 24"X12" DOMESTIC WATER PUMP ROOM 196 HT-03 36"X24" OA INTAKE LOŲVER 18" ABOVE FLOOR W/  $\frac{1}{4}$ " AH-05 16" Ø 14"0 WIREMESH SCREEN (S\(^{\frac{7}{5}}\) 304) SUSPENDED FROM ROOF STRUCTURE WITH SPRING THC-14 /TT ISOL A TORS 24"X12"-THT-01 (B)-----. . . . . . . . . . . . . . . . . . 24"X24" OSA LOUVER W∕ ¼" WIREMESH SCRÉEN (S/S 304) 750 CFM MIN 1500 CFM MAX — 24"X24" OA IMTAKE LOUVER 18" ABOVE FLOOR W/ = " WIREMESH SCREEN (S/S 304)

MAINTENANCE BUILDING FLOOR PLAN

INPUT/OUTPUT SUMMARY FOR MAINTENANCE BUILDING INPUTS OUTPUTS SYSTEM FEATURES GENERAL *ANALOG* ALARMS PROGRAMS BINARY *DIGITAL* ANAL OG CALCULATED MEASURED SYSTEM, APPARATUS, SUPPLEMENTARY NOTES OR AREA POINT DESCRIPTION PROVIDE NIGHT TIME SETBACK AIR HANDLING UNIT, AH-05 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

∖ ISSUED FOR CONSTRUCTION

## NOTES:

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

## SEOUENCE 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

DOMESTIC WATER PUMP ROOM:

SAME AS FIRE PUMP ROOM.

ELECTRICAL ROOM:

STATION.

SAME AS FIRE PUMP ROOM.

CHILLER YARD

MID STATION
"B"

LVEA ARM 2

MID STATION
"A"

CHILLER YARD

MAINT BLDG

KEY PLAN

LIGO-D960972-01-O

| DRAWN | CLP | II-15-96 | CHECKED | MN | I0-25-96 | ENGINEER | AA | I-23-96 | PROJ | TDM | II-15-96 | TDM |

BY CHKD ENGR PROJ

DESCRIPTION

DESCRIPTION

DRAWING NO.

NO. DATE



PASADENA, CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

LASER INTERFEROMETER

GRAVITATIONAL-WAVE OBSERVATORY

SITE NO. 2 - LIVINGSTON, LOUISIANA

HVAC
CORNER STATION
MAINTENANCE BUILDING
FLOOR PLAN

AS NOTED PP150969 8094

SHEET NUMBER

LA - H - 116

LIGOLAF3.BDR