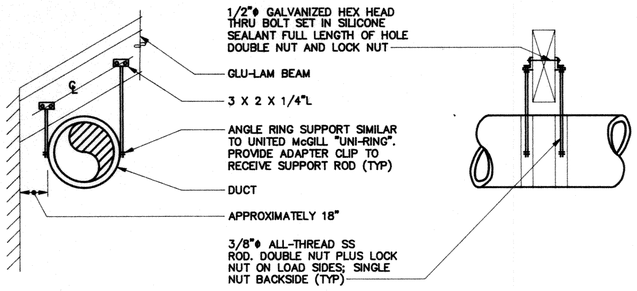
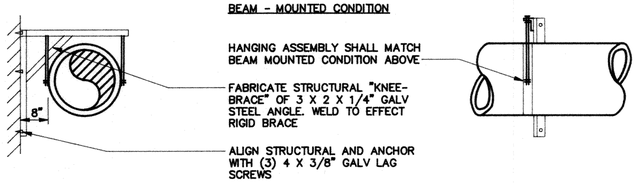


BEAM - MOUNTED CONDITION



WALL - MOUNTED CONDITION

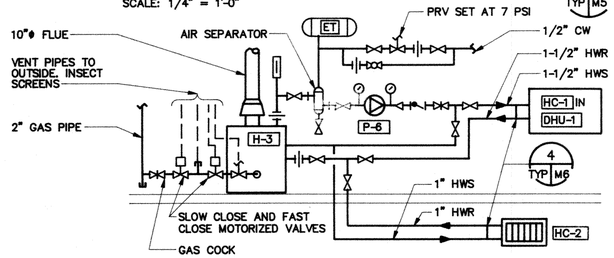
NOTES :

1. ALL METAL SHALL BE STAINLESS STEEL OR GALVANIZED STEEL INCLUDING FASTENERS.
2. DRESS ALL BURNED, NICKED, OR SCORED GALVANIZED BY THOROUGHLY CLEANING, REGALVANIZING, THEN CLEAN TO PREPARE FOR FINISH COAT.

DUCT HANGER DETAILS

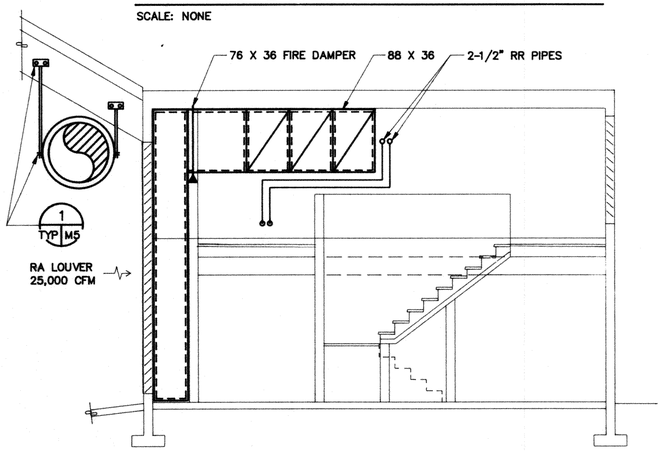
SCALE: 1/4" = 1'-0"

1 TYP M5



HEATING BOILING PIPING DIAGRAM

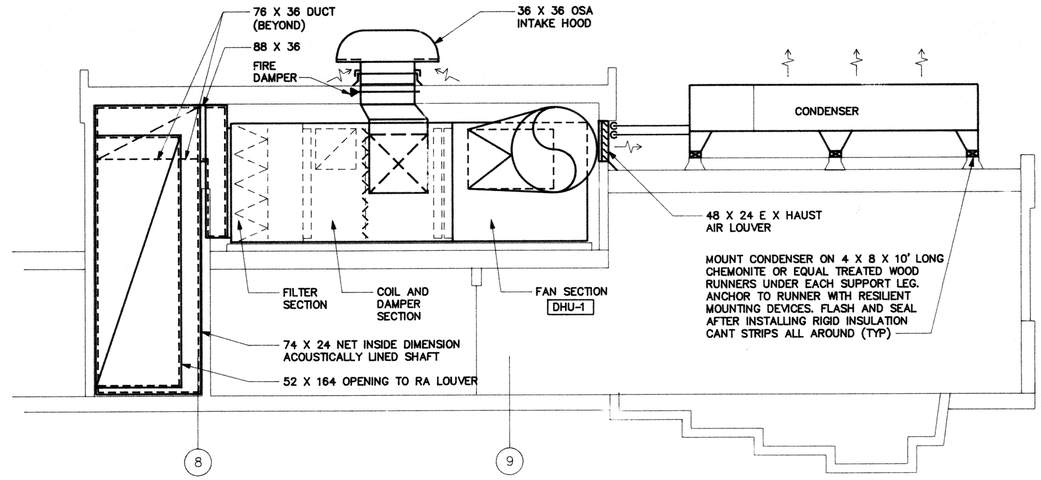
SCALE: NONE



SECTION

SCALE: 1/4" = 1'-0"

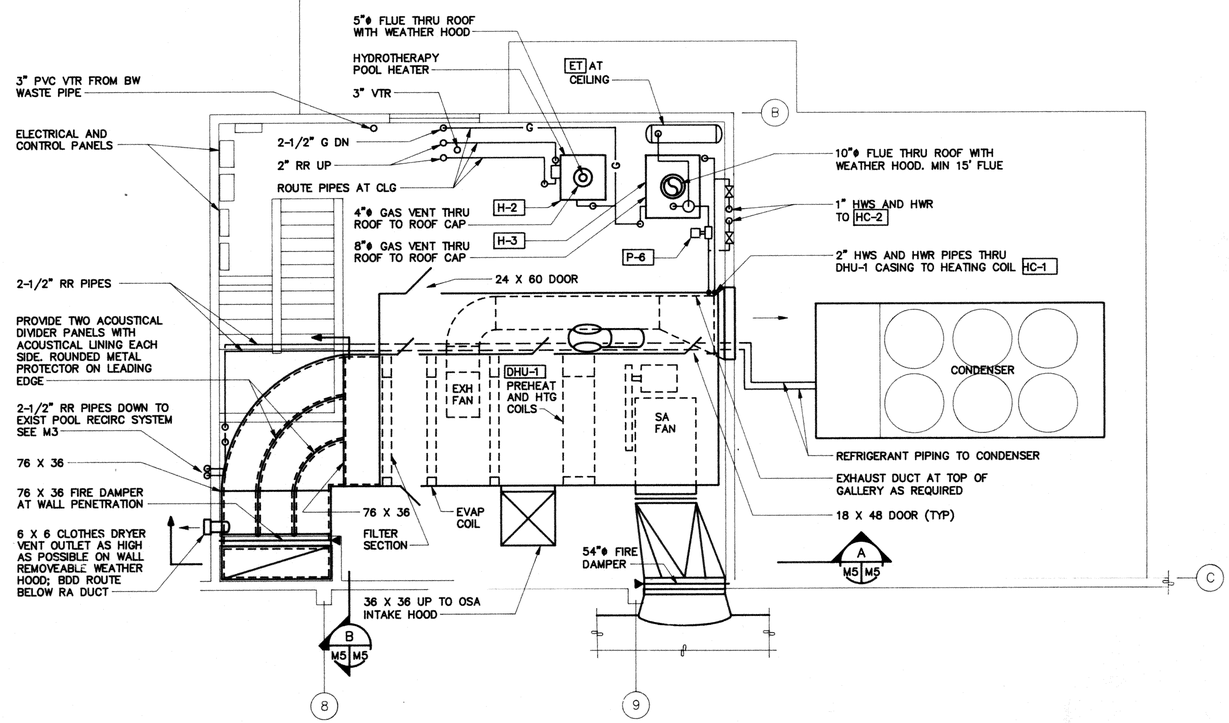
B M5 M5



SECTION

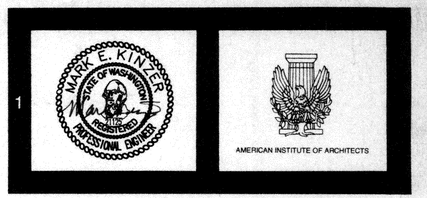
SCALE: 1/4" = 1'-0"

A M5 M5



MECHANICAL ROOM FLOOR PLAN

SCALE: 1/4"=1'-0"



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SEQUENCE OF OPERATION

A. ON/OFF CONTROL

UNIT RUNS CONTINUOUSLY UNLESS MANUALLY STOPPED OR STOPPED BY SAFETY CIRCUITS.

PROVIDE FREEZE-STAT, DUCT SMOKE DETECTOR, AND AUTOMATIC SHUT-DOWN ON ACTIVATION OF DUCT SMOKE DETECTOR.

B. OCCUPIED/UNOCCUPIED MODE

INDEXED BY 7-DAY TIME CLOCK.

UNOCCUPIED MODE: EXHAUST FAN OFF, OUTSIDE AIR DAMPER CLOSED.

C. SPACE TEMPERATURE CONTROL

1. NATATORIUM
   A. TWO STAGE COOLING, MODULATING HEATING DUAL SETPOINT TEMPERATURE CONTROLLER MODULATES FACE AND BY-PASS DAMPER ON THE REFRIGERANT REHEAT COIL, AND STAGES THE COOLING TO MAINTAIN NATATORIUM HEATING/COOLING SETPOINTS.

   B. IF AFTER A PREDETERMINED WARM-UP PERIOD (ADJUSTABLE SETTING) THE REFRIGERANT REHEAT COIL CANNOT SATISFY THE NATATORIUM HEATING DEMAND THE REHEAT COIL CONTROL VALVE SHALL CYCLE ON TO SATISFY NATATORIUM THERMOSTAT SETTING.

2. HYDROTHERAPY AREA
   HEATING THERMOSTAT SHALL MODUALATE REHEAT COIL CONTROL VALVE TO MAINTAIN SETPOINT.

D. DEHUMIDIFICATION

HUMIDISTAT WILL BRING ON REFRIGERANT COMPRESSOR TO MAINTAIN NATATORIUM AT SET POINT.

E. POOL WATER HEATING

POOL WATER PUMP CONSTANTLY SUPPLYS WATER TO POOL WATER HEAT RECOVERY EXCHANGER.

ALL THE REFRIGERANT HEAT NOT REQUIRED BY THE REFRIGERANT REHEAT COIL IS TRANSFERRED TO THE POOL WATER THRU THE HEAT RECOVERY EXCHANGER.

F. EXCESS HEAT REJECTION

IF REFRIGERANT REHEAT COIL AND POOL WATER HEAT EXCHANGER SATISFIED AND EXCESS HEAT CONTINUES TO BE REJECTED FROM EVAPORATOR RECOVERY COIL, REFRIGERANT VALVES SHALL CYCLE TO PERMIT ROOFTOP CONDESER TO AUTOMATICALLY CYCLE TO REJECT EXCESS HEAT.

HAL MOE POOL ENCLOSURE

MECHANICAL ROOM PLAN/ SECTIONS

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DATE: 8-7-89

REVISED:

SHEET NO.: M5

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