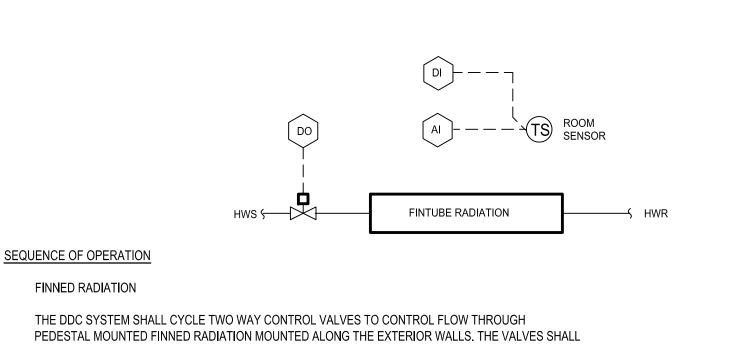


VAV BOX CONTROL SCHEMATIC SCALE: NOT TO SCALE



CYCLE TO MAINTAIN A SPACE TEMPERATURE SET POINT FROM A WALL MOUNTED THERMOSTAT. FINTUBE RADIATION CONTROL SCHEMATIC SCALE: NOT TO SCALE

SHEET NOTES

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M12.04

PWM Terminal Enhancement

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MECHANICAL CONTROL DIAGRAMS

09.6395.000

CAD File Name

 ☐ Issue Date & Issue Description

02 01/23/09

GENERAL NOTES

GENERAL NOTES.

SEE SHEET M00.00 FOR LEGEND AND

75% DESIGN DEVELOPMENT

ISSUED FOR PERMIT

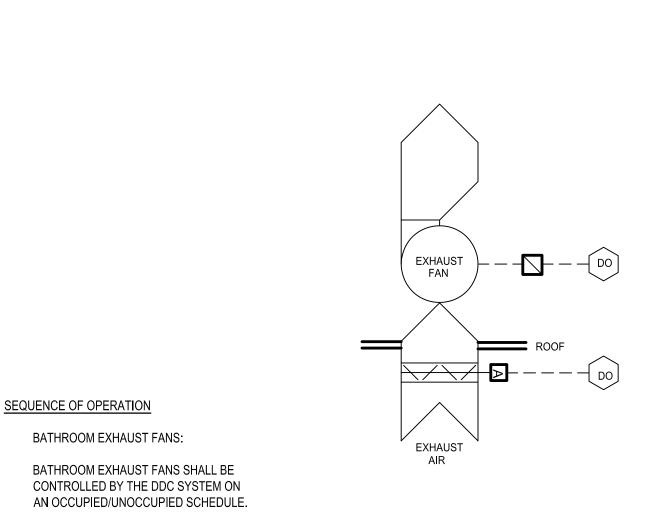
95% CONTRUCTION DOCUMENTS

PWZ RHB

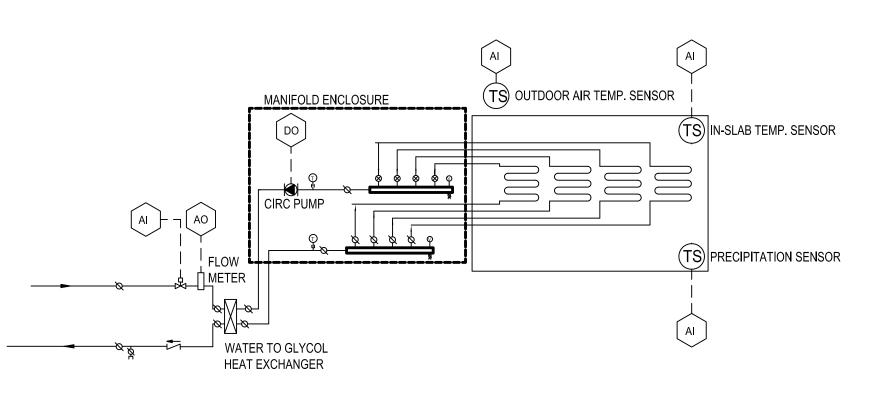
PWZ RHB

PWZ RHB

NOT TO SCALE



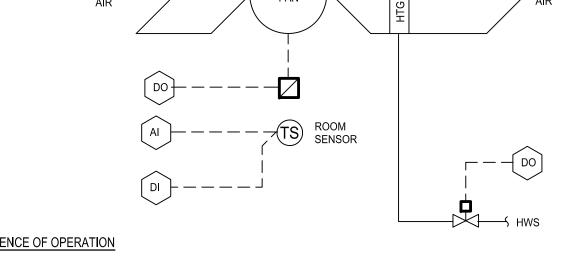
BATHROOM EXHAUST FAN CONTROL SCHEMATIC SCALE: NOT TO SCALE



SEQUENCE OF OPERATION SNOW MELT SYSTEM

> THE DDC SYSTEM SHALL START AND STOP SNOW MELT SYSTEM CIRCULATION PUMPS TO DISTRIBUTE A PROPYLENE GLYCOL/WATER SOLUTION THROUGH A SYSTEM OF POLYETHYLENE PIPING BURIED IN CONCRETE ROOF OR AREAWAY SLABS. A SMALL PLATE AND FRAME HEAT EXCHANGER SHALL SEPARATE THE HYDRONIC WATER SYSTEM FROM THE GLYCOL/WATER SNOW MELT SYSTEM PIPING. AN OUTDOOR AIR TEMPERATURE SENSOR SHALL START THE SNOW MELT CIRCULATION PUMPS WHEN THE OUTDOOR AIR TEMPERATURE DROPS BELOW 38 DEG F (ADJUSTABLE). EACH PUMP SHALL BE CYCLED TO MAINTAIN A SLAB SET POINT CONTROLLED BY A SENSOR BURIED IN THE ASSOCIATED SLAB. A PRECIPITATION SENSOR SHALL SHIFT THE SYSTEM FROM "IDLE" TO "SNOWMELT" MODE.

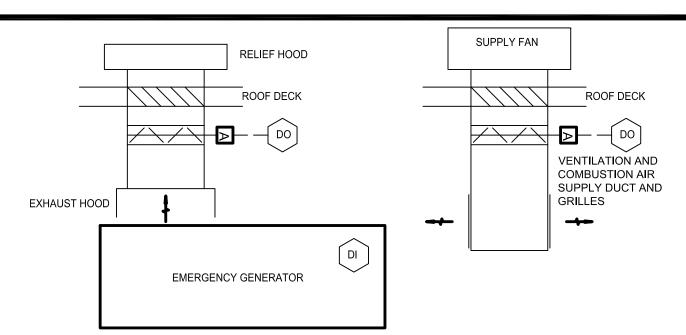
SNOW MELT CONTROL SCHEMATIC
SCALE: NOT TO SCALE



SEQUENCE OF OPERATION UNIT HEATERS/CABINET UNIT HEATERS

A WALL-MOUNTED ELECTRIC THERMOSTAT SHALL OPEN A TWO WAY CONTROL VALVE IN THE SUPPLY PIPE AND SHALL CYCLE THE UNIT FAN TO MAINTAIN THE SPACE AIR TEMPERATURE SET POINT. A PIPE MOUNTED AQUASTAT SHALL PREVENT THE FAN

FROM OPERATING IF THE SUPPLY WATER TEMPERATURE IS BELOW 130 DEG F. (ADJUSTABLE) CABINET UNIT HTR CONTROL SCHEMATIC SCALE: NOT TO SCALE

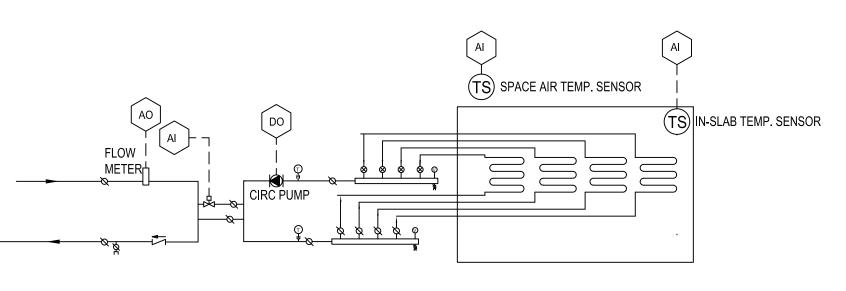


SEQUENCE OF OPERATION

IN AN EMERGENCY, THE GENERATOR PLANT SHALL START AUTOMATICALLY; AS SOON AS THE GENERATOR MOTOR STARTS, THE INTAKE AND RELIEF DAMPERS SHALL OPEN. THE EMERGENCY GENERATOR "RUN" CONTACTS SHALL CLOSE AND THE DDC SYSTEM

EMERGENCY GEN. CONTROL SCHEMATIC SCALE: NOT TO SCALE

SHALL ALARM AND SWITCH TO FREEZE PROTECTION MODE.



SEQUENCE OF OPERATION RADIANT FLOORS

> THE DDC SYSTEM SHALL START AND STOP RADIANT FLOOR CIRCULATION PUMPS TO DISTRIBUTE WATER THROUGH A SYSTEM OF POLYETHYLENE PIPING BURIED IN CONCRETE FLOOR SLABS. EACH PUMP SHALL BE CYCLED TO MAINTAIN A FLOOR SLAB SET POINT CONTROLLED BY A SENSOR BURIED IN THE ASSOCIATED SLAB. A SPACE TEMPERATURE SENSOR SHALL ACT AS A HIGH LIMIT.

RADIANT FLOOR CONTROL SCHEMATIC

UH CONTROL SCHEMATIC

