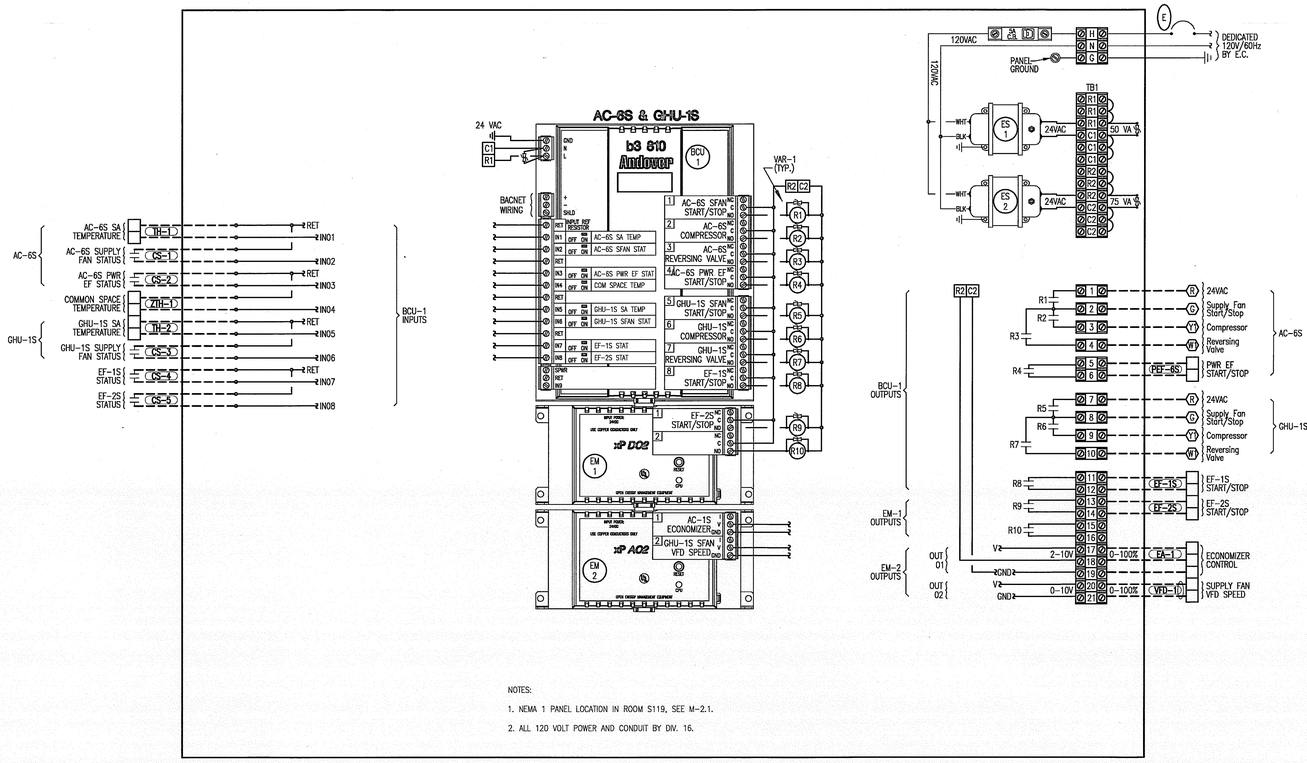


NOTES:

1. NEMA 1 PANEL LOCATION IN ROOM S119, SEE M-2.1.
2. ALL 120 VOLT POWER AND CONDUIT BY DIV. 16.

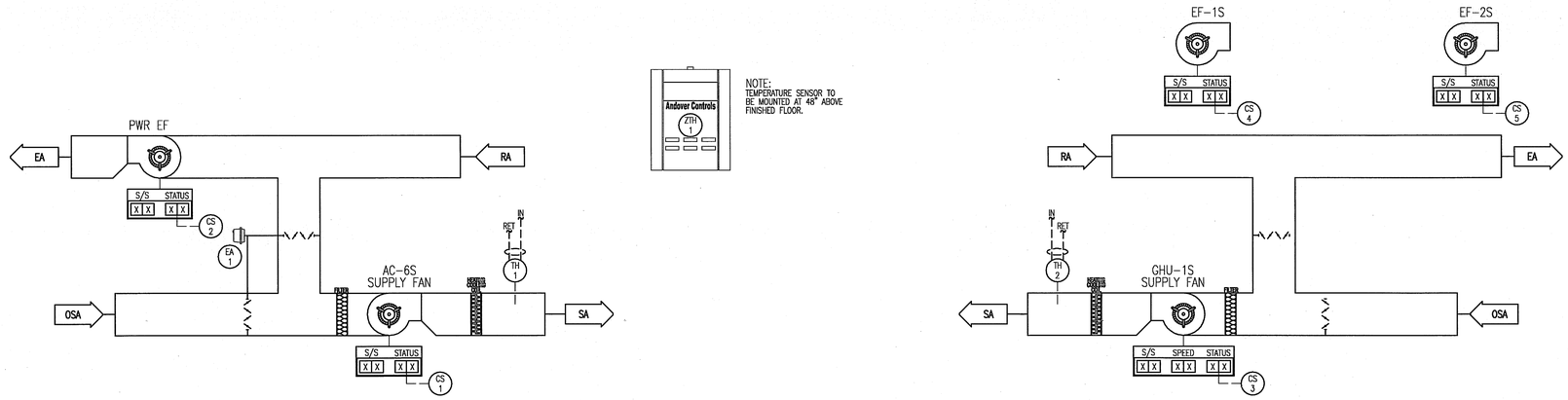
1 STADIUM BLDG AC-6S & GHU-1S CONTROL PANEL WIRING DIAGRAM

SCALE: NONE

SEQUENCE OF OPERATION

GHU-1S & AIR HANDLING UNIT

A. EF-1S, EF-2S, & GHU-1S SHALL BE CONTROLLED BY ENERGY MANAGEMENT SYSTEM (EMS).
B. CURRENT SWITCHES SHALL INDICATE EITHER EF-1 OR EF-2 ARE RUNNING. THE PANEL SHALL ENABLE THE GHU-1S UNIT INCLUDING ITS VFD, AC-6S AND ALSO AC-5S WHICH IS CONTROLLED BY ANOTHER CONTROLLER.
C. WHEN ANY EXHAUST FAN IS ON, THE VFD SHALL RAMP UP TO SPEED SUCH THAT GHU-1S IS SUPPLYING AIR ACCORDING TO THE FOLLOWING SCHEDULE:
   1. EF-1S = 2100 CFM.
   2. EF-2S = 956 CFM.
   3. EF-1S & 2S = 3056 CFM.
D. THE CONTROL CONTRACTOR SHALL WORK WITH THE AIR BALANCE CONTRACTOR TO FIND VFD SPEEDS TO MATCH ABOVE CFM'S DURING TEST AND BALANCE.
E. WHEN BOTH EXHAUST FANS ARE NOT RUNNING, GAS HEATING UNIT SHALL BE OFF, AND AC UNITS (AC-5S & 6S) SHALL OPERATE AS NECESSARY PER T-STAT.
   1. PLEASE SEE AC-1S FOR AIR HANDLING UNIT SEQUENCE OF OPERATION.
F. UNIT GHU-1S COOLING, SEQUENCES THE EVAP COOLER AS THE FIRST STAGE OF COOLING AND THE DX UNIT AS THE SECOND STAGE COOLING.



1 AC-6S & GHU-1S AIR FLOW SCHEMATIC

SCALE: NONE

NOTE:
TEMPERATURE SENSOR TO BE MOUNTED AT 48" ABOVE FINISHED FLOOR.

SEQUENCE OF OPERATION

GHU-1S & AIR HANDLING UNIT

A. EF-1S, EF-2S, & GHU-1S SHALL BE CONTROLLED BY ENERGY MANAGEMENT SYSTEM (EMS).
B. CURRENT SWITCHES SHALL INDICATE EITHER EF-1 OR EF-2 ARE RUNNING. THE PANEL SHALL ENABLE THE GHU-1S UNIT INCLUDING ITS VFD, AC-6S AND ALSO AC-5S WHICH IS CONTROLLED BY ANOTHER CONTROLLER.
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SHEET TITLE
ENERGY MANAGEMENT SYSTEM CONTROL DIAGRAMS

100% CONSTRUCTION DOCUMENT

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