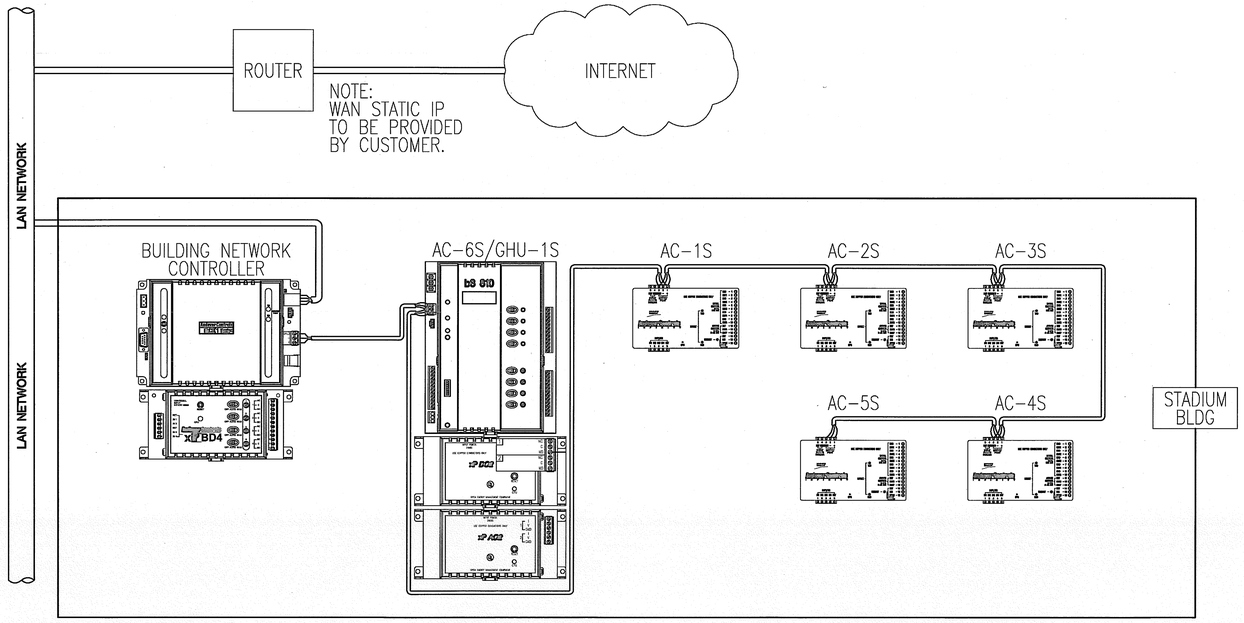
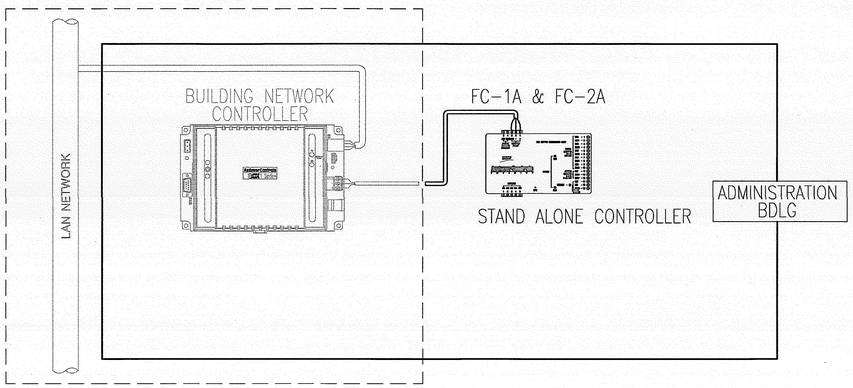


FUTURE



NOTES:

1. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL CONTROL NOTES AND DETAILS.
2. ALL 120 VOLT POWER AND CONDUIT BY DIV. 16.
3. CONTROLS CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AS NECESSARY, INCLUDING ELECTRICAL, MECHANICAL, & GENERAL CONTRACTOR FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM PRIOR TO FABRICATION AND INSTALLATION.
4. CONTROL CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF EMS PANEL(S) IN FIELD WITH THE OWNER REPRESENTATIVE PRIOR TO INSTALLATION. COORDINATE INSTALLATION WITH OTHER TRADES AS NECESSARY.

3 ENERGY MANAGEMENT SYSTEM ARCHITECTURE

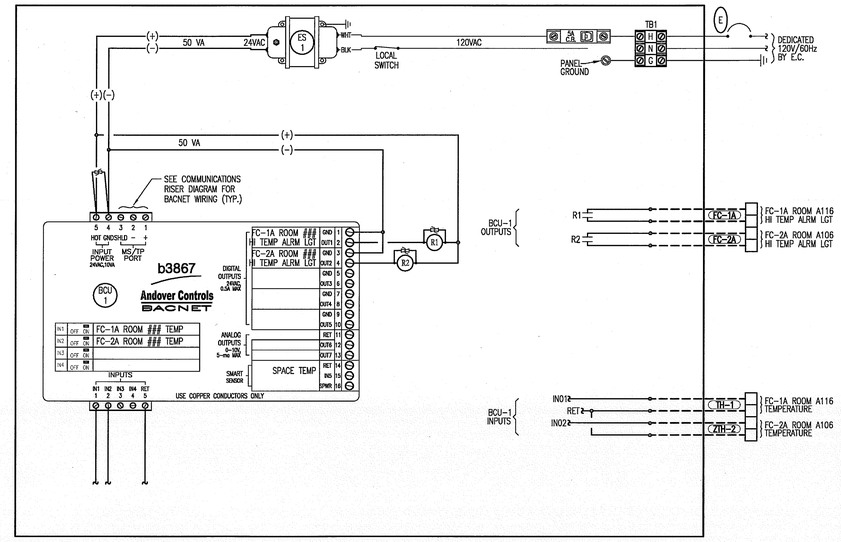
SCALE: NONE

LEGEND

- POWER SUPPLY WIRE
- CONTROL SIGNAL WIRE
- PNEUMATIC LINE
- POWER SUPPLY, D.C.
- POWER TRANSFORMER, A.C.
- ELECTRIC TERMINAL BLOCK
- CIRCUIT BREAKER
- METAL OXIDE VARISTOR
- CONTROL RELAY
- TIME DELAY RELAY
- NORMALLY CLOSED CONTACT
- NORMALLY OPEN CONTACT
- PNEUMATIC CONNECTION
- (E) SUPPLIED BY ELECTRICAL
- (M) SUPPLIED BY MECHANICAL
- (C) SUPPLIED BY CONTROLS
- (M/E) SUPPLIED BY MECHANICAL INSTALLED BY ELECTRICAL
- (C/M) SUPPLIED BY CONTROLS INSTALLED BY MECHANICAL
- (E/C) SUPPLIED BY ELECTRICAL INSTALLED BY CONTROLS
- (C/E) SUPPLIED BY CONTROLS INSTALLED BY ELECTRICAL
- INDICATES TERMINAL BLOCK NUMBER
- AIR DAMPER (VANE TYPE)
- PNEUMATIC ACTUATOR
- FUSE
- CONTROL DAMPER

N.O.	NORMALLY OPEN
N.C.	NORMALLY CLOSED
B.A.S.	BUILDING AUTOMATION SYSTEM
(E)	EXISTING
(F)	FUTURE
SA	SUPPLY AIR
RA	RETURN AIR
MA	MIXED AIR
CFM	CUBIC FEET PER MINUTE
AC1-1-1	AC BLDG # - UNIT # - ZONE #
VAV1-1-1	VAV BLDG # - NIT # - ZONE #

- AFS — AIR FLOW SWITCH
- BCU — BACNET CONTROL UNIT
- CAL — CELESTIAL AMBIENT LIGHT SENSOR
- CO2 — CARBON DIOXIDE SENSOR
- CO — CARBON MONOXIDE SENSOR
- CS — CURRENT SWITCH
- CT — CURRENT TRANSDUCER
- CV — CONTROL VALVE
- DPS — DIFFERENTIAL PRESSURE SWITCH
- DPT — DIFFERENTIAL PRESSURE TRANSMITTER
- EA — ELECTRIC ACTUATOR
- EEB — EMERGENCY EXIT BUTTON
- EM — EXPANSION MODULE CONTROLLER
- FM — FLOW METER
- FT — FLOW TRANSMITTER
- EPV — ELECTRIC TO PNEUMATIC VALVE
- HT — HUMIDITY SENSOR
- HU — HUMIDIFIER
- ICU — INFINITY CONTROL UNIT
- IOU — INPUT/OUTPUT MODULE
- IP — ELECTRIC TO PNEUMATIC TRANSDUCER
- LC — LIGHTING CONTACTOR
- MOB — MANUAL OVERRIDE BOARD
- MS — MOTION SENSOR
- PS — POWER SUPPLY-VARIOUS TYPES
- PS — PRESSURE SENSOR
- SCP — SECURITY CONTROL PANEL
- SD — SMOKE DETECTOR
- TH — THERMISTOR
- TT — TEMPERATURE TRANSMITTER
- VS — VIBRATION SWITCH
- X — ADJOINING CIRCLES INDICATE ELEMENT INTERGRAL WITH TRANSMITTER
- ZHT — ZONE HUMIDITY SENSOR
- ZTH — ZONE TEMPERATURE SENSOR

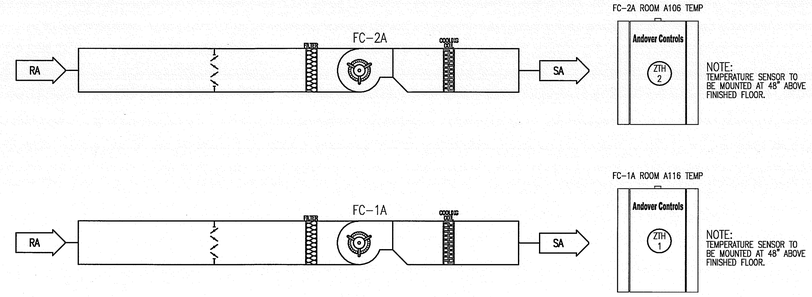


NOTES:

1. NEMA 1 PANEL LOCATION IN ROOM A116, SEE M-3.1.
2. ALL 120 VOLT POWER AND CONDUIT BY DIV. 16.

1 ADMINISTRATION BLDG. FC-1A & FC-2A CONTROL PANEL WIRING DIAGRAM

SCALE: NONE



UNIT MANUFACTURER FACTORY CONTROLS, BY OTHERS
TEMP SENSOR FOR MONITORING & ALARM ONLY

2 AIR FLOW SCE\HEMATIC

SCALE: NONE

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MOORE IACOFANO GOLTSMAN, INC.
601 N. HARBOR BLVD.
FULLERTON, CA 92831
TEL 714/871-3638
FAX 714/871-1188
www.migcom.com

PITASSI ARCHITECTS, INC.
8439 White Oak Ave., Suite. 105
Rancho Cucamonga, Ca 91730
Tel. 909-980-1361 ■ Fax. 909-944-5814
e-mail. pjpaia@pitassiarchitects.com

CONSULTANT:

GLUMAC
16735 Von Karman Ave., Suite 250
Irvine, CA 92606-4915
T. 949.833.8190 F. 949.833.0252
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