


ADDENDUM TO RFP DOCUMENTS

 <p>SOLANO COMMUNITY COLLEGE</p>	ADDENDUM #02
	Project: Solano Community College District Building Automation System (BAS) Retrofit Phase 2 Project Project #19-000
	Date: November 5, 2018

The following clarifications are provided based on questions received or changes in District requirements and must be added/considered when completing your submittal: Acknowledgement of receipt of this **ADDENDUM** is required in the proposal's cover letter of introduction. Please clearly note the addendum date and number.

ITEM:

ITEM NO. 1 – CLARIFICATION OF DEADLINE TO SUBMIT PRE-PROPOSAL QUESTIONS

Revision to deadline for submitting pre-proposal questions provided on page 7 of Request for Qualifications/Request for Proposals. **Pre-proposal questions must be submitted by 10:00am on November 13, 2018**, in lieu of 2:00pm as stated on page 7 of Request for Qualifications/Request for Proposals.

ITEM NO. 2 – CLARIFICATION OF DEADLINE TO SUBMIT QUALIFICATIONS/PROPOSALS

Revision to deadline for submitting Qualifications/Proposals provided on page 7 of Request for Qualifications/Request for Proposals. **Qualifications/Proposals must be submitted by 12:00pm on November 20, 2018**, in lieu of 2:00pm as stated on page 7 of Request for Qualifications/Request for Proposals.

ITEM NO. 3 – REVISION TO RFQ/RFP, SCOPE OF SERVICES

Revision to scope of services described in section 'II. PROJECT OVERVIEW' of Request for Qualifications/Request for Proposals. In summary, revisions to scope of services are as follows:

- Eliminate Building 300 from scope of services.
- Large fan coil unit located in Building 1800B, Room 1855, will need to be integrated into campus wide Delta Controls BAS. See photo of existing controls cabinet included in addendum below.

'Scope of Services' description shall be revised as follows:

B. Scope of Services

~~Nine (9)~~ **Eight (8)** buildings require replacement of their monitoring and control system: Buildings 200, ~~300~~, 400, 900, 1700A, 1700B, 1800A, 1800B and 2600. The list of services below shall be included in all submitted proposals for each building. Successful respondent to this RFQ/RFP will have included all scope necessary to provide a turnkey campus wide BAS system at the completion of the project (scope clarifications must be requested in writing, per the instructions described above).

- a. Attend project kick-off meeting to discuss and identify District needs and goals for buildings to be converted and campus wide overall system.
- b. Site and building investigations for the purpose of design development. Site and building investigations shall be coordinated and scheduled with the District and must not interrupt class instruction. Generally, though other days may be available, classes are not in session on Fridays and buildings are more accessible for investigation.
- c. Attend design coordination meeting to discuss findings and provide design recommendations for District approval. Design shall take cost savings into consideration and develop a design that can reuse existing infrastructure (i.e. junction boxes, pathways, wiring, enclosures, etc.).
- d. Remove existing Alerton BAS for nine (9) buildings listed above, including all devices, modules, controllers, thermostats, equipment and programming, as necessary for the conversion and integration into campus wide Delta Controls BAS.
- e. Install new Delta Controls BAS for nine (9) buildings listed above, including devices, modules, controllers and thermostats for all building equipment to be monitored and controlled via campus wide system. See Exhibit A for building existing equipment list.
- f. Installation of new network temperature, CO2 and motion sensors for buildings with rooftop air handling units.
- g. All necessary programming for converted nine (9) buildings to be monitored and controlled onsite and remotely, including integration of converted buildings into campus wide Delta Controls BAS.
- h. Develop and provide point-to-point wiring diagrams to serve as record of as-built condition.
- i. Graphical user interface development and programming. Graphics must be consistent and similar to current graphics on BAS. See Exhibit B for graphic expectations.
- j. Include three (3) individual days, eight (8) hours each day, for a total of twenty four (24) hours, of training for District personnel. Training days may or may not be consecutive days and will need to be scheduled according to District availability.
- k. *Integrate large fan coil unit located in Building 1800B, Room 1855, into campus wide Delta Controls BAS. Scope shall include all devices, controllers, wiring, cables, pathways, programming, etc. which may need to be added to, or replace, existing equipment in controls cabinet.***

ITEM NO. 4 – REVISION TO EXHIBIT D – AGREEMENT, TIME FOR COMPLETION

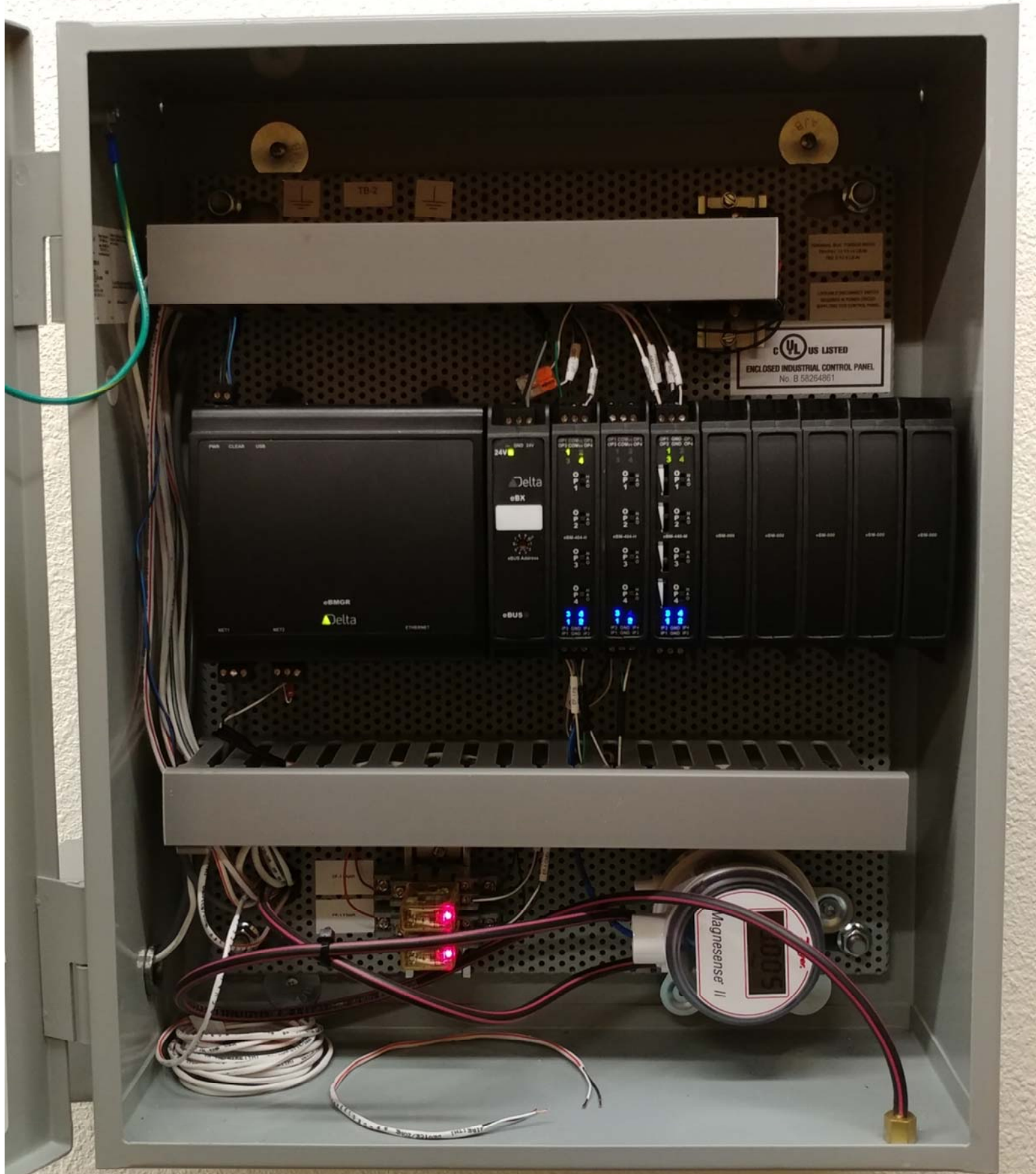
Revision to project completion date noted in Exhibit D – Agreement to be **April 30, 2019**, in lieu of April 30, 2018.

ITEM NO. 5 – SUPPLEMENTAL REFERENCE INFORMATION FOR EXISTING BUILDING CONTROLS

Additional controls information is included in this addendum below. Note, the District cannot attest to the accuracy of information provided. Respondents shall use this information as reference only and field verify actual installations to determine its design, construction and programming scope necessary for a turnkey campus wide Delta Controls BAS. Information provided below was gathered from archived files and may include original drawings and updated drawings for the same building. Reviewers of information shall take note of drawing dates. Any comments made on the drawings under this addendum will be noted in red and have a comment date of 11/5/2018. Supplemental information provided in this addendum are for the following buildings:

- Building 200
- Building 400
- Building 900
- Building 1700A
- Building 1700B
- Building 1800A
- Building 1800B

COMMENT DATE 11/5/2018 -
CONTROLS CABINET FOR
FAN COIL UNIT IN ROOM 1855
(BUILDING 1800B)



MAC No.	Dev. ID No.	Dev. Type	Class	DESCRIPTION	SERVING	SIZE	VAV		LOCATION	Ref.Dwg.
							MAX CFM	MIN CFM		
0	202	BTR	6	BT ROUTER	BUILDING 200				BLDG 200 ELEC ROOM	CC 0.04
1	2001	853	3	PANEL 200-A	BLDG. 200, AHU-1				BLDG 200 MECH RM	
2	2002	853	3	PANEL 200-A	BLDG. 200, AHU-2				BLDG 200 MECH RM	
3	2003	853	3	PANEL 200-B	BLDG. 200, AHU-3				BLDG 200 MECH RM	
4	2004	853	3	PANEL 200-C	BLDG. 200, AHU-4				BLDG 200 MECH RM	
5	2005	853	3	PANEL 200-C	BLDG. 200, AHU-5				BLDG 200 MECH RM	
6	2006	853	3	PANEL 200-D	BLDG. 200, AHU-6				BLDG 200 MECH RM	
7	2007	853	3	PANEL 200-D	BLDG. 200, AHU-7				BLDG 200 MECH RM	
8	2008									
9	2009									
10	2010									
11	2011									
12	2012									
13	2013									
14	2014									
15	2015									
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61	2061									
62	2062									
63	2063									

MAC No.	Dev. ID No.	Dev. Type	Class	DESCRIPTION	SERVING	SIZE	VAV		INDUCTION		LOCATION	Ref.Dwg.
							MAX CFM	MIN CFM	PRI CFM	SEC CFM		
64	2064											
65	2065											
66	2066											
67	2067											
68	2068											
69	2069											
70	2070											
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110	2110											
111	2111											
112	2112											
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118	2118											
119	2119											
120	2120											
121	2121											
122	2122											
123	2123											
124	2124											
125	2125											
126	2126											
127	2127											

LSI - Network Address Information

	Ethernet In		MS/TP Out	
Device I	202	MS/TP Network No.	202	
EtherNet Netw	10	MS/TP MAC Address	0	
E-Net MAC A	102	MS/TP Baud*	768	

*Baud X 100 KPS

LSI No. 202 Location:

BUILDING 200, MECHANICAL ROOM
SERVING BUILDING 200

Page Address Key 2

P-3048_LSI_ADDR.XLS
8/23/01 16:44

"AS-BUILT"
AUGUST 2001
MEM

VLC ADDRESS SCHEDULE, BTR 202 - BUILDING 200

ENGINEER

CONTRACTOR

SYSERCO ENGINEER
M. MORGAN

ENG. CHK SALES CHK

DATE
APRIL 2000

Syserco Inc.

Direct Digital Controls

44244 Fremont Blvd., Fremont, CA 94538-6000
PH (510) 498-1171 FAX (510) 498-1161 CL# 483939

**SOLANO COMMUNITY COLLEGE
CONTROLS UPGRADE**
4000 SUISUN VALLEY ROAD
SUISUN, CALIFORNIA 94585-3197

PROJECT

#	DATE	REVISION
	6/00	ADDED BLDGS.

FILE P-3195A.DWG

LAYER 05

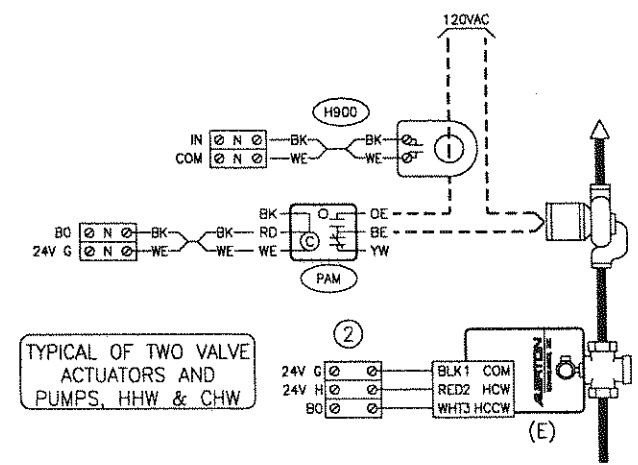
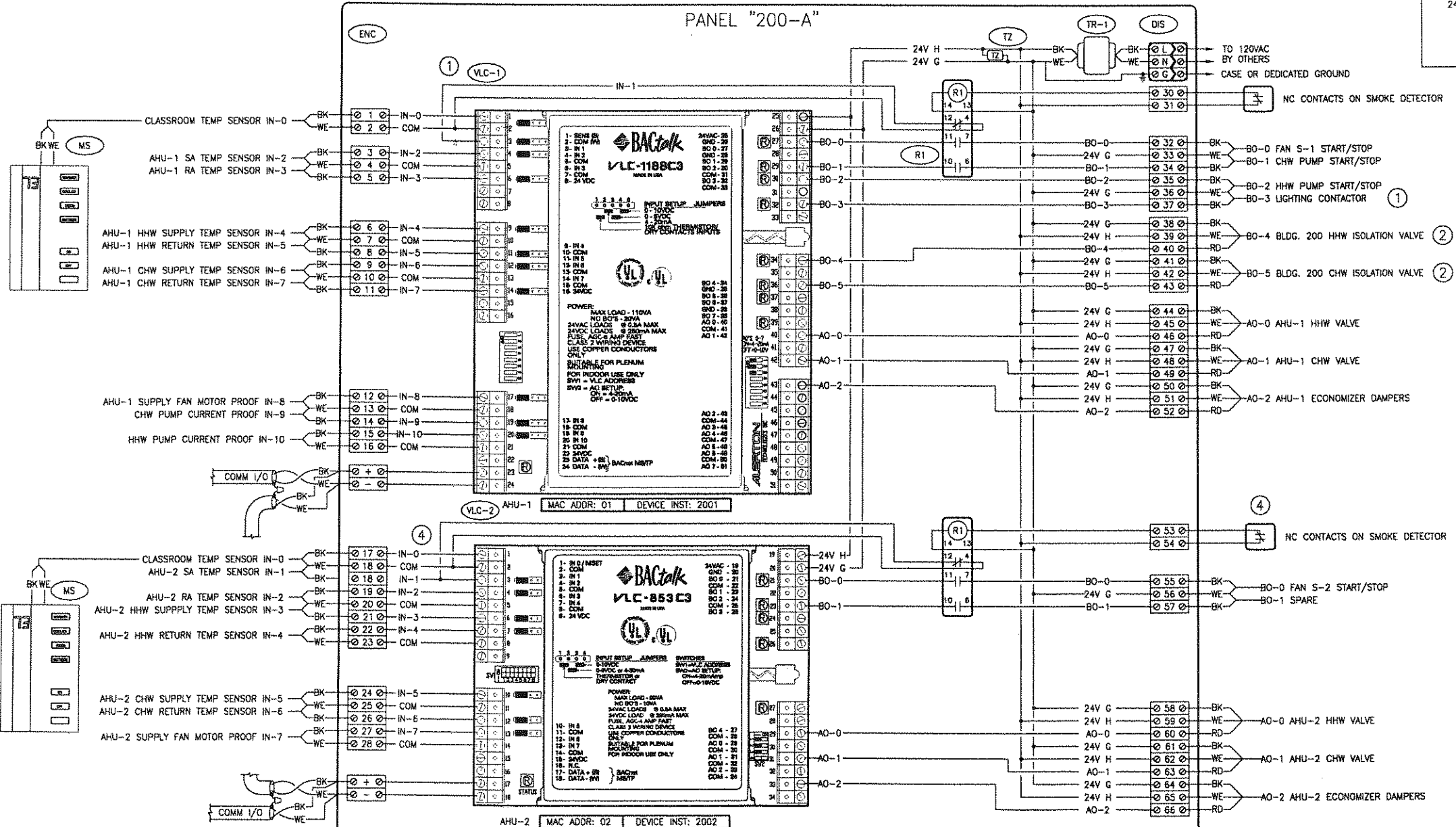
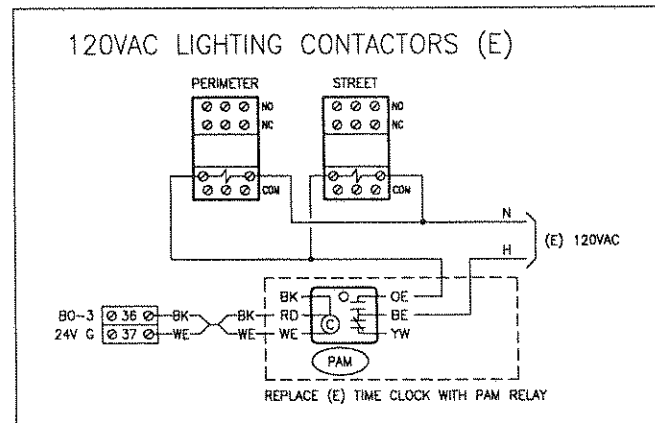
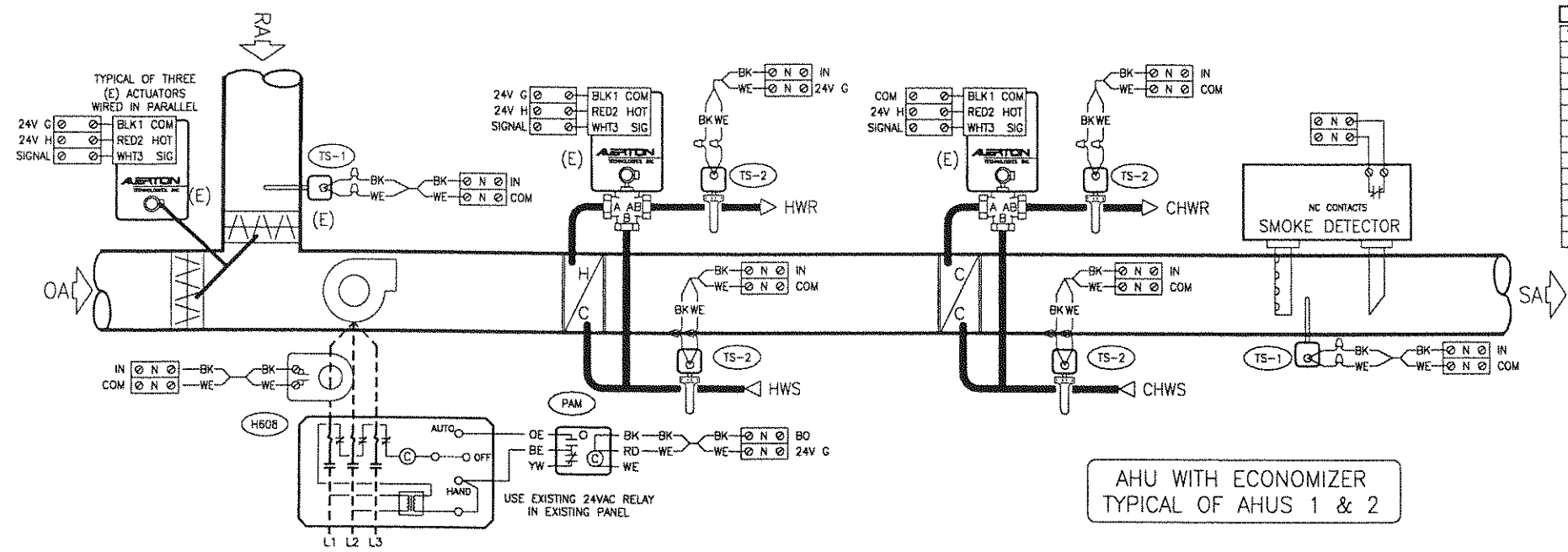
JOB NUMBER

P-3195

SHEET I.D.

CC 0.05

TAG	QTY	PART NUMBER	DESCRIPTION	COMMENTS
VLC	1	VLC1188C3	ALERTON VISUAL LOGIC CONTROLLER	
VLC	1	VLC853C3	ALERTON VISUAL LOGIC CONTROLLER	
TR-1	1	694-M3	KELE 180VA TRANSFORMER	120/24 VAC
TZ	1	AC-3000	ALERTON TRANZORB	
DIS	1	PLU-3	CONNECTRON DISCONNECT TERMINAL	
ENC	1	A-24N24MP	HOFFMAN 24X24 PLATE	USE (E) 24X24 ENCLOSURE
R-1	2	RH4B-UL-AC24V	IDEC 4-POLE RELAY	
R-1	2	SH4B-05	IDEC 4-POLE RELAY BASE	
H900	2	H-900	VERIS GO/NO-GO CURRENT SWITCH	
H608	2	H-608	VERIS ADJUSTABLE CURRENT RELAY	
TS-1	4	TS-2010BT	ALERTON 10" DUCT SENSOR	
TS-2	8	TS-3000BT	ALERTON PENCIL SENSOR	
MS	1	MS-1010BT	ALERTON MICROSET CONTROLLER	
PAM	5	PAM-1	KELE PAM RELAY	PILOT DUTY



- SHEET NOTES:
1. RUN ONE PAIR TO ELECTRICAL ROOM TO CONTROL EXTERIOR LIGHTING CONTACTORS.
 2. ISOLATION VALVES USE (E) ACTUATORS. SHOWN WIRED FOR TWO-POSITION ACTION.
 3. INSTALL EQUIPMENT IN EXISTING 24X24 ENCLOSURE.
 4. DUCT SMOKE DETECTOR WILL CAUSE A SHORT ON THE AHU SA TEMP, ALARM SD ON THIS ALARM.

"AS-BUILT"
AUGUST 2001
MEM

BUILDING 200 AHU-1&2 PANEL "200-A" WIRING DIAGRAM

CONTRACTOR

SYNERCO ENGINEER
M. MORGAN
ENR. CHK SALES CHK

DATE
APRIL 2000

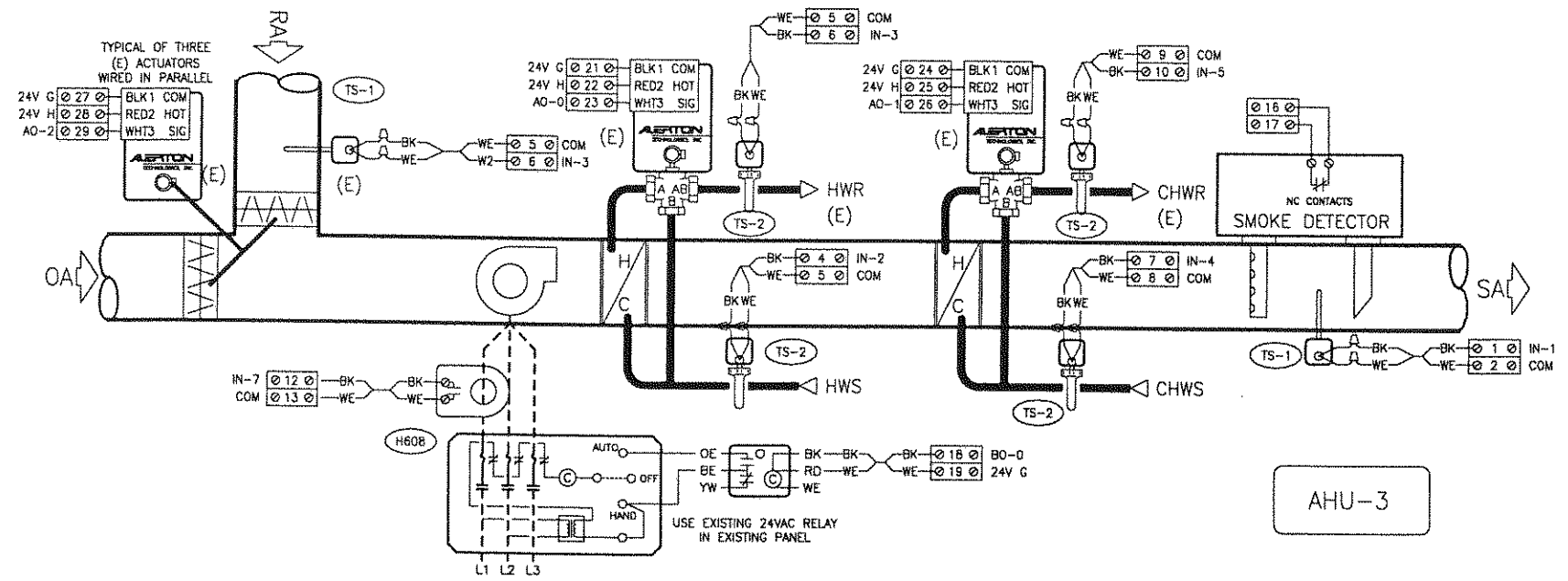
Syserco Inc.
Direct Digital Controls
44244 Fremont Blvd., Fremont, CA 94538-6000
PH (510) 498-1171 FAX (510) 498-1161 CL# 483939

PROJECT
SOLANO COMMUNITY COLLEGE
CONTROLS UPGRADE
4000 SUISUN VALLEY ROAD
SUISUN, CALIFORNIA 94585-3197

#	DATE	REVISION
1	8/23/01	AS-BUILT

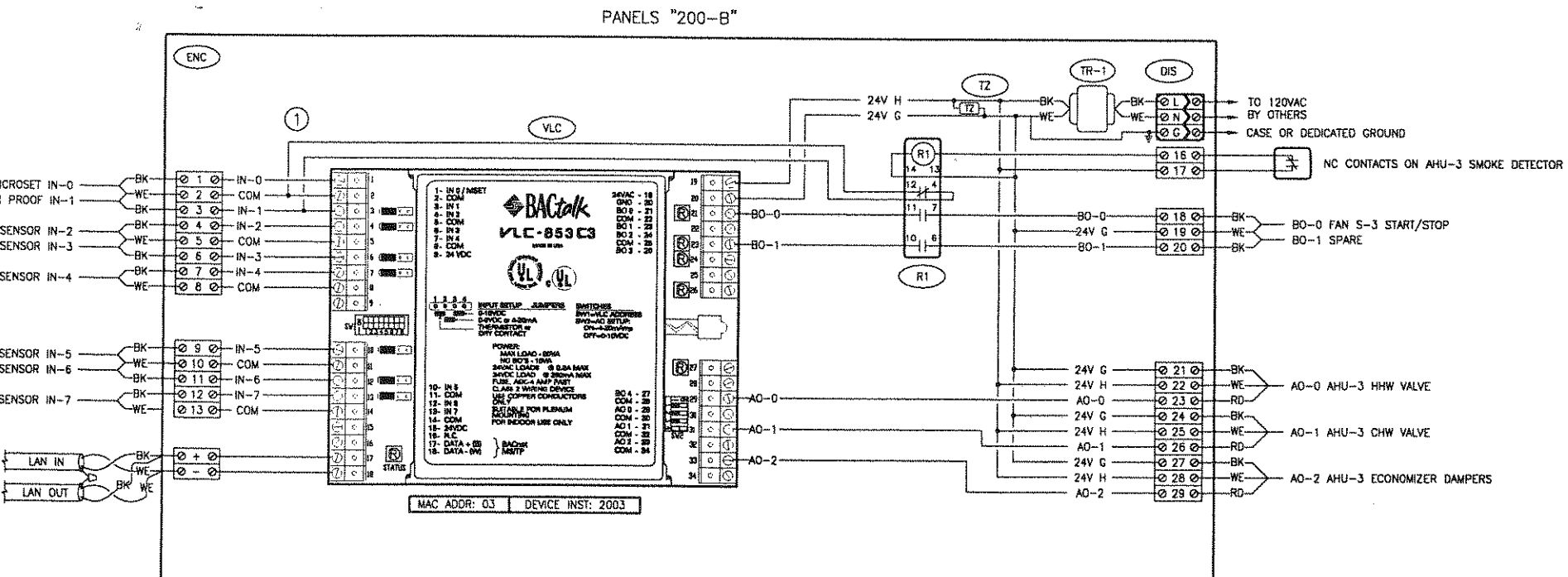
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JOB NUMBER
P-3195
SHEET I.D.
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PARTS LIST

TAG	QTY	PART NUMBER	DESCRIPTION	COMMENTS
VLC	1	VLC853C3	ALERTON VLC CONTROLLER	
TR-1	1	691-U100	KELE 100VA TRANSFORMER	120/24 VAC
TZ	1	AC-3000	ALERTON TRANZORB	
DIS	1	PLU-3	CONNECTRON DISCONNECT TERMINAL	
ENC	1	A-24N24MP	HOFFMAN 24X24 PLATE	USE (E) 24X24 ENCLOSURE
R-1	1	RH4B-UL-AC24V	IDEC 4-POLE RELAY	
R-1	1	SH4B-05	IDEC 4-POLE RELAY BASE	
H608	1	H-608	VERIS ADJUSTABLE CURRENT RELAY	
TS-1	2	TS-2010BT	ALERTON 10" DUCT SENSOR	
TS-2	4	TS-3000BT	ALERTON PENCIL SENSOR	
MS	1	MS-1010BT	ALERTON MICROSET CONTROLLER	



NOTES:
 1. SMOKE DETECTOR ACTIVATION WILL CAUSE A SHORT ON SUPPLY FAN TEMP INPUT. ALARM SMOKE DETECTOR ON THIS POINT.
 2. INSTALL EQUIPMENT IN EXISTING 24X24 ENCLOSURE

"AS-BUILT"
 AUGUST 2001
 MEM

BUILDING 200 AHU-3 PANEL "200-B" WIRING AND CONTROL DIAGRAM

ENGINEER

CONTRACTOR

SYNERCO ENGINEER
 M. MORGAN
 ENCL. CHK SALES CHK

DATE
 APRIL 2000

Syserco Inc.
 Direct Digital Controls
 44244 Fremont Blvd., Fremont, CA 94538-6000
 PH (510) 496-1171 FAX (510) 498-1161 C.F. 483939

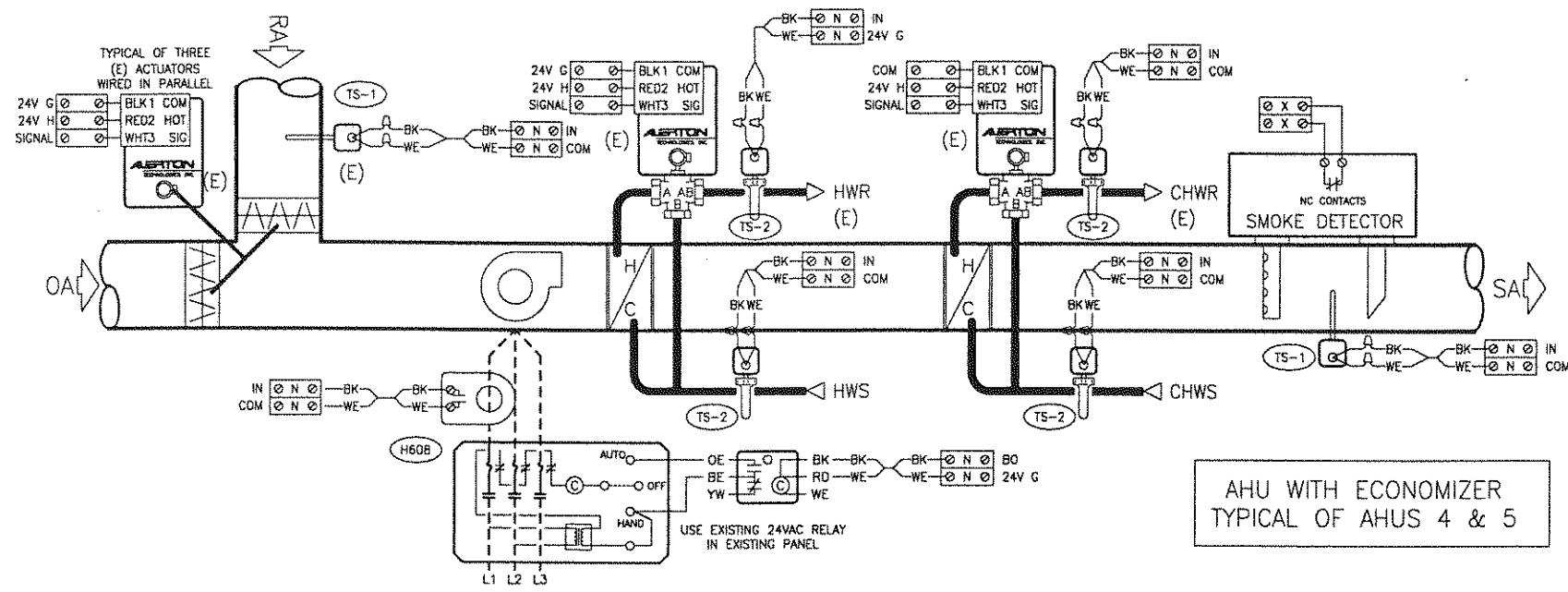
PROJECT

SOLANO COMMUNITY COLLEGE
 CONTROLS UPGRADE
 4000 SUISUN VALLEY ROAD
 SUISUN, CALIFORNIA 94585-3197

#	DATE	REVISION
	8/23/01	AS-BUILT

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 JOB NUMBER P-3195
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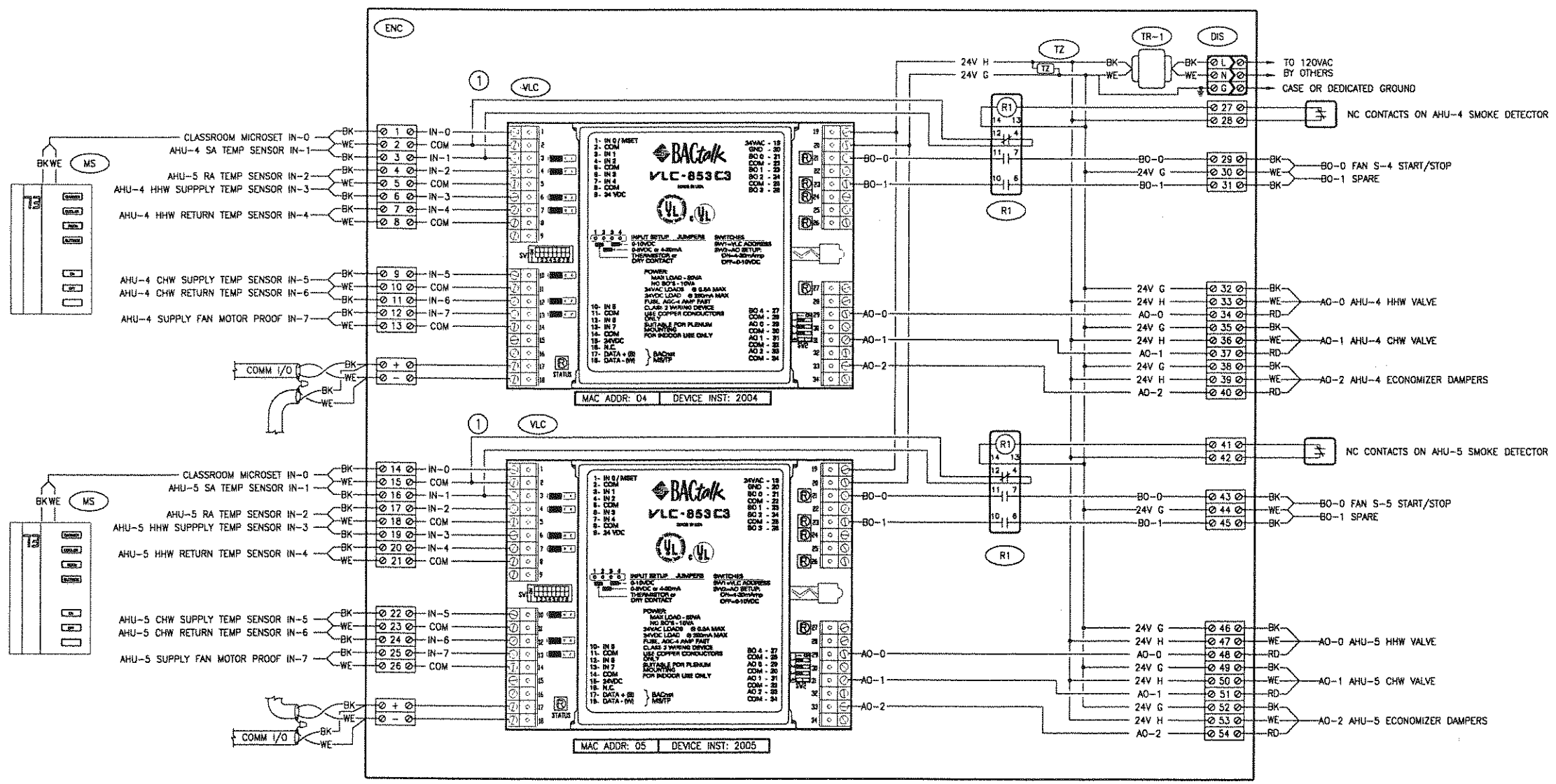


AHU WITH ECONOMIZER
TYPICAL OF AHUS 4 & 5

PARTS LIST

TAG	QTY	PART NUMBER	DESCRIPTION	COMMENTS
VLC	2	VLC853C3	ALERTON VLC CONTROLLER	
TR-1	1	694-M3	KELE 180VA TRANSFORMER	120/24 VAC
TZ	1	AC-3000	ALERTON TRANZORB	
DIS	1	PLU-3	CONNECTRON DISCONNECT TERMINAL	
ENC	1	A-24X24P	HOFFMAN 24X24 PLATE	USE (E) 24X24 ENCLOSURE
R-1	2	RH4B-UL-AC24V	IDEC 4-POLE RELAY	
R-1	2	SH4B-05	IDEC 4-POLE RELAY BASE	
H60B	2	H-60B	VERIS ADJUSTABLE CURRENT RELAY	
TS-1	4	TS-2010BT	ALERTON 10" DUCT SENSOR	
TS-2	8	TS-3000BT	ALERTON PENCIL SENSORS	
MS	2	MS-1010BT	ALERTON MICROSET CONTROLLER	

PANEL "200-C"



- NOTES:
- SMOKE DETECTOR ACTIVATION WILL CAUSE A SHORT ON SUPPLY FAN TEMP INPUT. ALARM SMOKE DETECTOR ON THIS POINT.
 - INSTALL PANEL IN EXISTING 24X24 ENCLOSURE.

"AS-BUILT"
AUGUST 2001
MEM

BUILDING 200 AHU-4&5 PANEL "200-C" WIRING AND CONTROL DIAGRAM

ENGINEER

SYNERCO ENGINEER
M. MORGAN
ENG. CHK SALES CHM

DATE
APRIL 2000

Syserco Inc.
Direct Digital Controls
44244 Fremont Blvd., Fremont, CA 94538-6000
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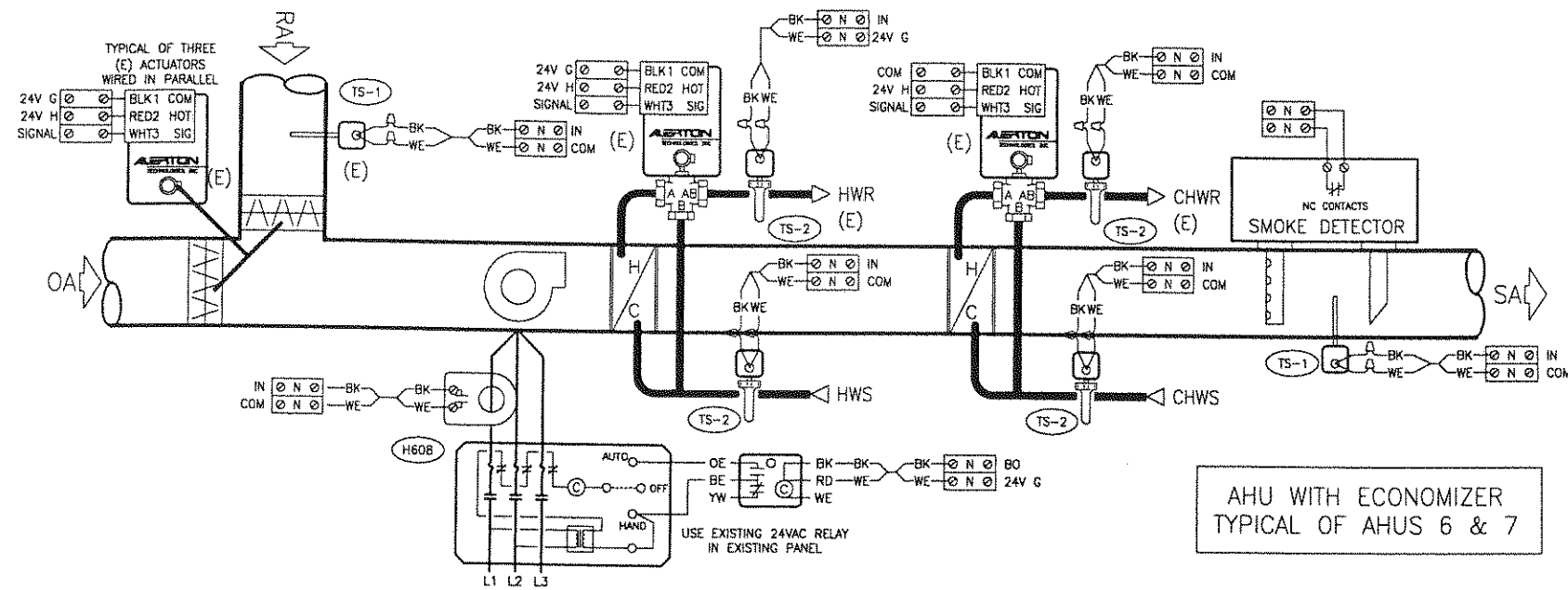
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SOLANO COMMUNITY COLLEGE
CONTROLS UPGRADE
4000 SUISUN VALLEY ROAD
SUISUN, CALIFORNIA 94585-3197

#	DATE	REVISION
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SHEET 1.D.
CC 1.03

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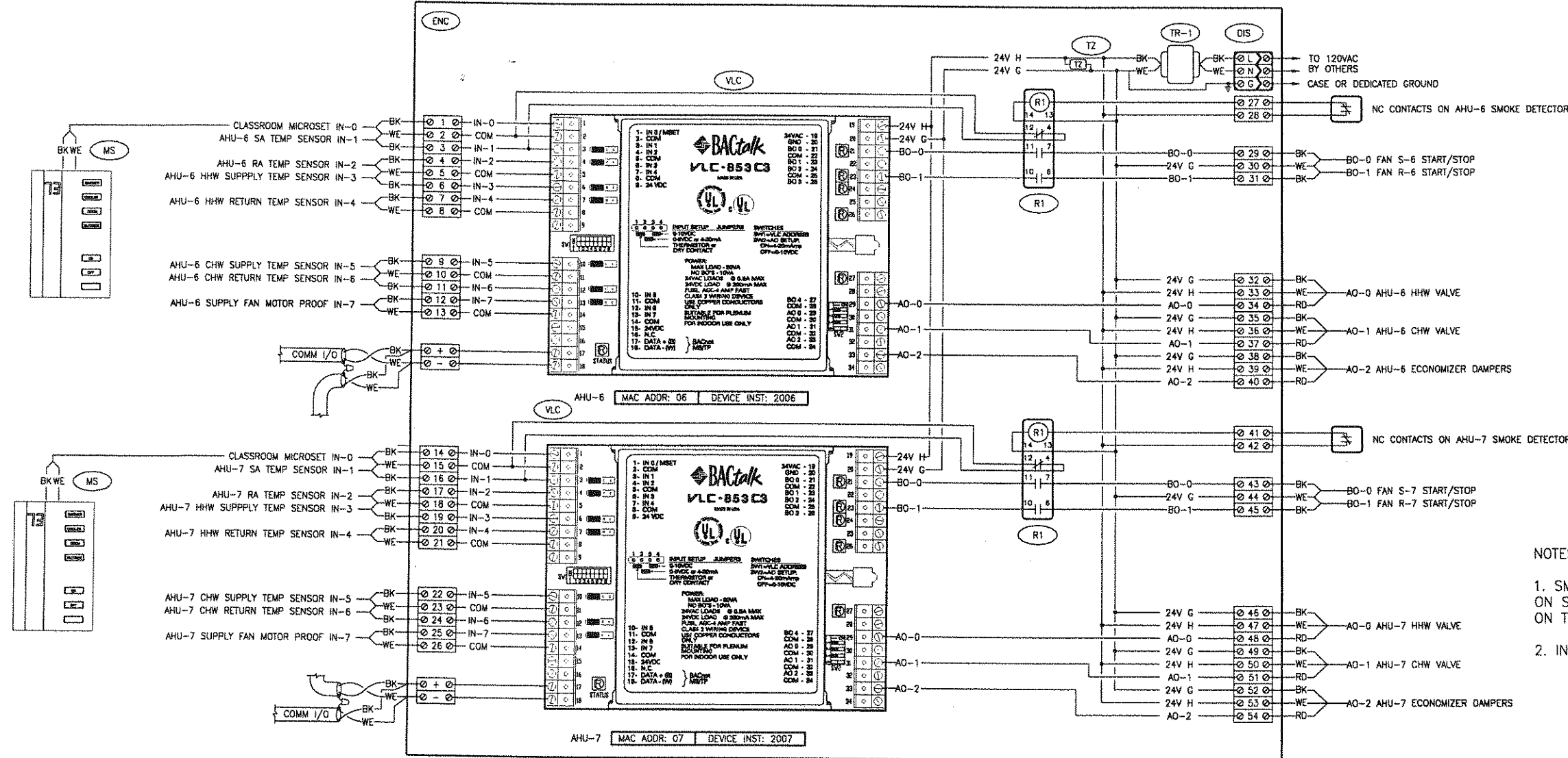


AHU WITH ECONOMIZER
TYPICAL OF AHUS 6 & 7

PARTS LIST

TAG	QTY	PART NUMBER	DESCRIPTION	COMMENTS
VLC	2	VLC853C3	ALERTON VLC CONTROLLER	
TR-1	1	694-M3	KELE 180VA TRANSFORMER	120/24 VAC
TZ	1	AC-3000	ALERTON TRANZORB	
DIS	1	PLU-3	CONNECTRON DISCONNECT TERMINAL	
ENC	1	A-24N24MP	HOFFMAN 24X24 PLATE	USE (E) 24X24 ENCLOSURE
R-1	2	RH4B-UL-AC24V	IDEC 4-POLE RELAY	
R-1	2	SH4B-05	HOFFMAN 24X24 PLATE	
H608	2	H-608	VERIS ADJUSTABLE CURRENT RELAY	
TS-1	4	TS-2010BT	ALERTON 10" DUCT SENSOR	
TS-2	6	TS-3000BT	ALERTON PENCIL SENSORS	
MS	2	MS-1010BT	ALERTON MICROSET CONTROLLER	

PANEL "200-D"



- NOTES:
1. SMOKE DETECTOR ACTIVATION WILL CAUSE A SHORT ON SUPPLY FAN TEMP INPUT. ALARM SMOKE DETECTOR ON THIS POINT.
 2. INSTALL PANEL IN EXISTING 24X24 ENCLOSURE.

"AS-BUILT"
AUGUST 2001
MEM

BUILDING 200 AHU-6&7 PANEL "200-D" WIRING DIAGRAM

ENGINEER

CONTRACTOR

SYSERCO ENGINEER
M. MORGAN

ENG. CHK SALES CHK

DATE
APRIL 2000

Sysenco Inc.
Direct Digital Controls

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PROJECT

**SOLANO COMMUNITY COLLEGE
CONTROLS UPGRADE**
4000 SUISUN VALLEY ROAD
SUISUN, CALIFORNIA 94585-3197

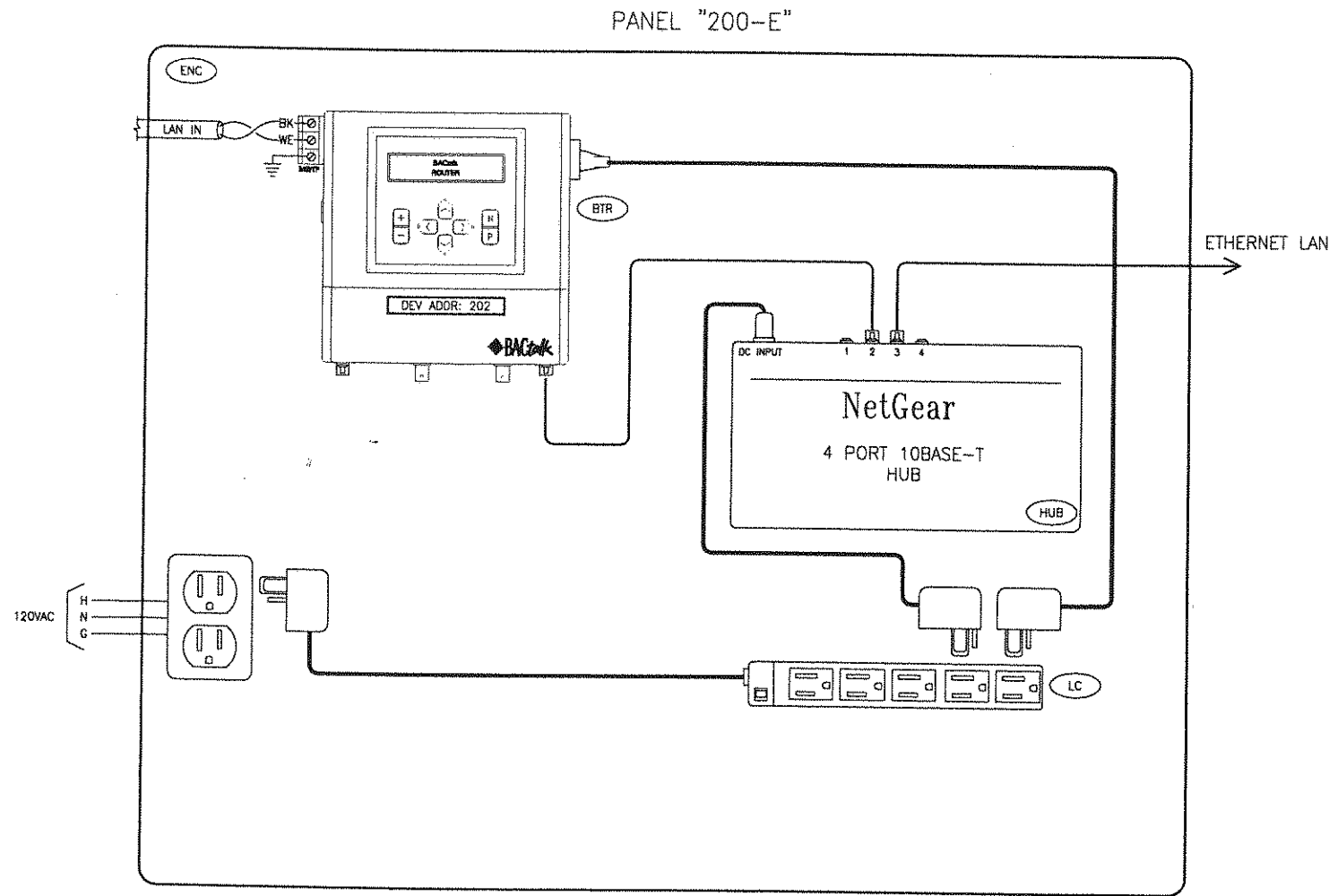
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PARTS LIST

TAG	QTY	PART NUMBER	DESCRIPTION	COMMENTS
BTR	1	BT ROUTER	ALERTON BACNET ROUTER	WITH ETHERNET
LC	1	BELKIN F5C050	6 OUTLET SURGE STRIP	
HUB	1	NETGEAR EN104TP	4 PORT 10BASE-T ETHERNET HUB	
ENC	1	A-24N24MP	HOFFMAN 24X24 BACK PLATE	



AS-BUILT
AUGUST 2001
MEM

BUILDING 200 PANEL "200-E" WIRING DIAGRAM

ENGINEER

CONTRACTOR

SYNERCO ENGINEER

M. MORGAN

ENG. CHK SALES CHR

DATE

APRIL 2000

Syserco Inc.

Direct Digital Controls

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PH (510) 498-1171 FAX (510) 498-1161 CL# 483639

PROJECT
SOLANO COMMUNITY COLLEGE
CONTROLS UPGRADE

4000 SUISUN VALLEY ROAD
SUISUN, CALIFORNIA 94585-3197

#	DATE	REVISION
1	8/23/01	AS-BUILT

FILE P-3195B.DWG

LAYER 05

JOB NUMBER

P-3195

SHEET I.D.

CC 1.05

ENGINEER
GLUMAC & ASSOCIATES
 10419 Old Placerville Rd.
 Suite 250
 Sacramento, CA 95827
 (916) 362-9394
 (916) 362-3306 FAX

CONTRACTOR
BAY CITY MECHANICAL, INC.
 543 SOUTH 31ST ST
 RICHMOND, CA 94804
 (510) 233-7000
 (510) 233-7042 FAX

SYSERCO ENGINEER
RAB
 ENG. CHK SALES CHK

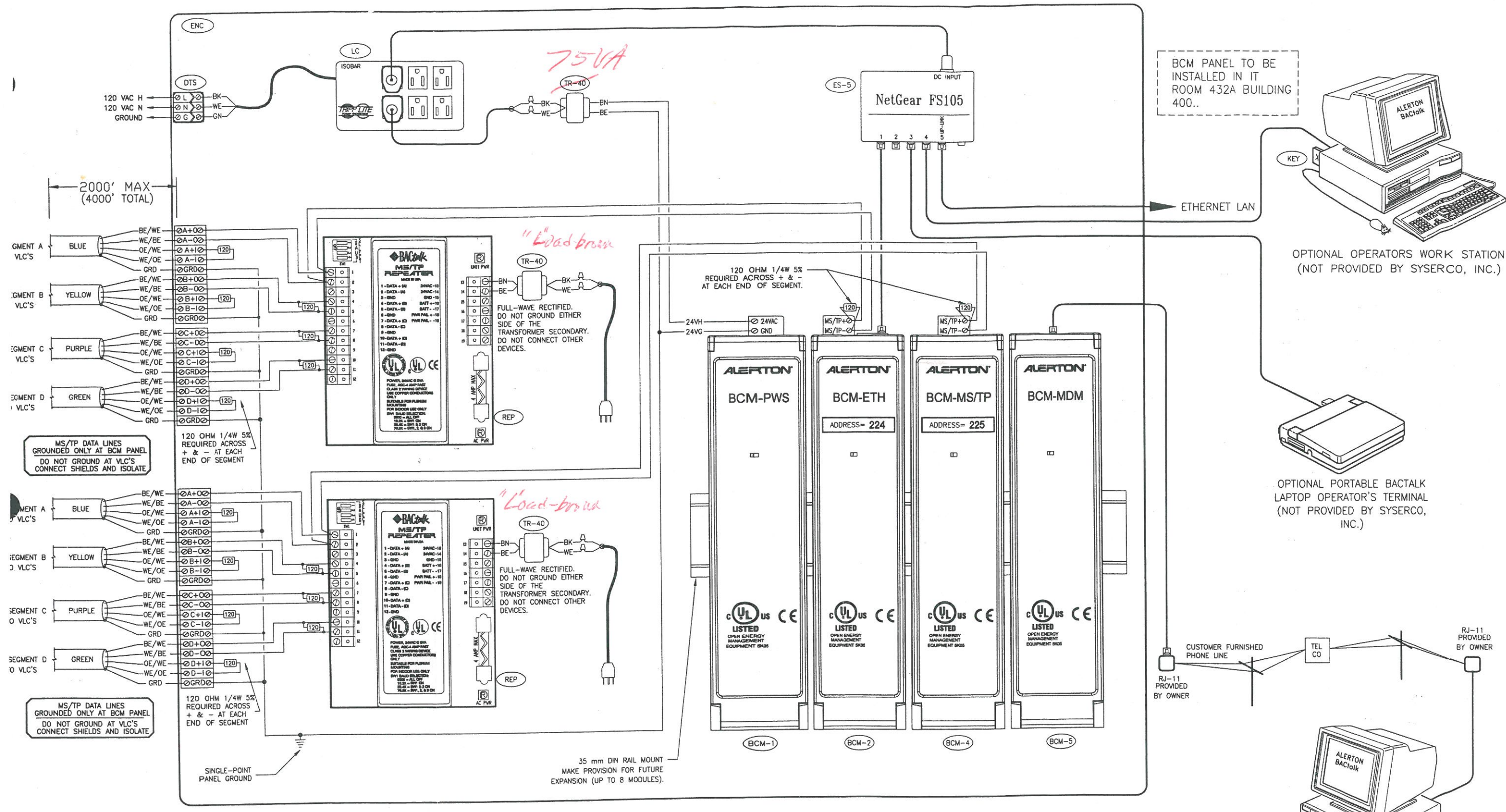
DATE
 July 17, 2006

North Bay Office:
 572-A Marin Ave.
 Rohnert Park, CA 94928
 707-588-7400

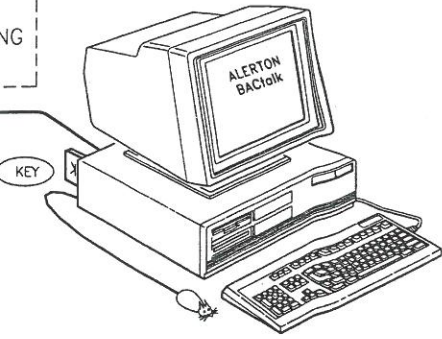
Main Office:
 44244 Fremont Blvd.
 Fremont, CA 94538
 510-498-1171

PROJECT
SCC STUDENT SERVICES BLDG. 400
 4000 SUISUN VALLEY RD. FAIRFIELD, CA 94534
ALERTON
 AUTHORIZED DEALER

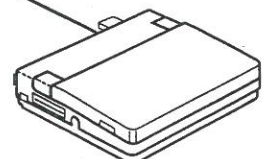
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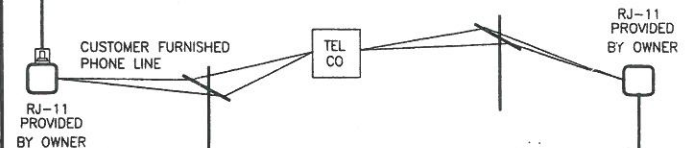
BCM PANEL TO BE INSTALLED IN IT ROOM 432A BUILDING 400..



OPTIONAL OPERATORS WORK STATION (NOT PROVIDED BY SYSERCO, INC.)



OPTIONAL PORTABLE BACTALK LAPTOP OPERATOR'S TERMINAL (NOT PROVIDED BY SYSERCO, INC.)



REMOTE DIAL-IN OPERATORS STATION (NOT PROVIDED BY SYSERCO, INC.)

Panel Devices Parts List:

Tag	Qty	Part Number	Description	Comments
ENC	1	A24N24ALP	HOFFMAN NEMA-1 24X24X6 ENCLOSURE	
	1	A24N24MP	HOFFMAN 24X24 MOUNTING PLATE	
	1	A-12-B	HOFFMAN KEY LOCK KIT FOR TCP	
BCM-1	1	BCM-PWS	ALERTON Bactalk CONTROL MODULE	POWER SUPPLY
BCM-2	1	BCM-ETH	ALERTON Bactalk CONTROL MODULE	1/1 ETHERNET, 1 MS/TP
BCM-4	1	BCM-MS/TP	ALERTON Bactalk CONTROL MODULE	1 MS/TP
BCM-5	1	BCM-MDM	ALERTON Bactalk CONTROL MODULE	W/V.90/56K MODEM
ES-5	1	FS105	NETGEAR 5-PORT ETHERNET SWITCH	
DTS	1	PLU-3	CONNECTRON POWER SURGE-SPIKE PROTECTOR	
LC	1	ISOBAR6	TRIPPLITE SURGE SUPPRESSOR	
TR-40	3	X040AAA	VERIS 120/40VAC 40VA TRANSFORMER	
REP	2	MS/TP REPEATER	ALERTON SMART MS/TP REPEATER	
KEY	1	ENVISION TECH KEY - USB	ALERTON SOFTWARE KEY	

BCM GLOBAL CONTROLLER WIRING DIAGRAM

Panel Devices Parts List: AHU-1 & AHU-2

Tag	Qty	Part Number	Description	Comments
VLC-1	2	VLC-1188	ALERTON VISUAL LOGIC CONTROLLER	
VLC-2	2	VLC-1600	ALERTON VISUAL LOGIC CONTROLLER	
TCP	2	A24R24SHCR	HOFFMAN NEMA-3R 24X24X8 ENCLOSURE	
DIS	2	A24P24	HOFFMAN 24X24 MOUNTING PLATE	
PLU-3	2	PLU-3	CONNECTRON DISCONNECT TERMINAL	
TZ	2	PSKE47CA	FAIRCHILD TRANSIENT VOLTAGE SUPPRESSOR	
TR-1	2	X075C8A	VERIS MULTI-TAP 75VVA TRANSFORMER	120/208/240/480
NFT3	3	NFT3	CONNECTRON 3 POSITION TERMINAL	
DPT-B	2	FXPLK01S	VERIS DIFF PRESSURE TRANSDUCER	0-1" WC RANGE
R-4	4	RH4B-UL-AC24V	IDEC 4-POLE RELAY	
	4	SH4B-05	IDEC 4-POLE RELAY BASE	
R-1	10	RH1B-UL-AC24V	IDEC 1-POLE RELAY	
	10	SH1B-05	IDEC 1-POLE RELAY BASE	
	4	BNL5	IDEC DIN RAIL END STOP	
	14	SFA-101	IDEC HOLD DOWN CLIP	
OSA	1	TS-3200-DD-10-AA	ALERTON OSA TEMPERATURE SENSOR	

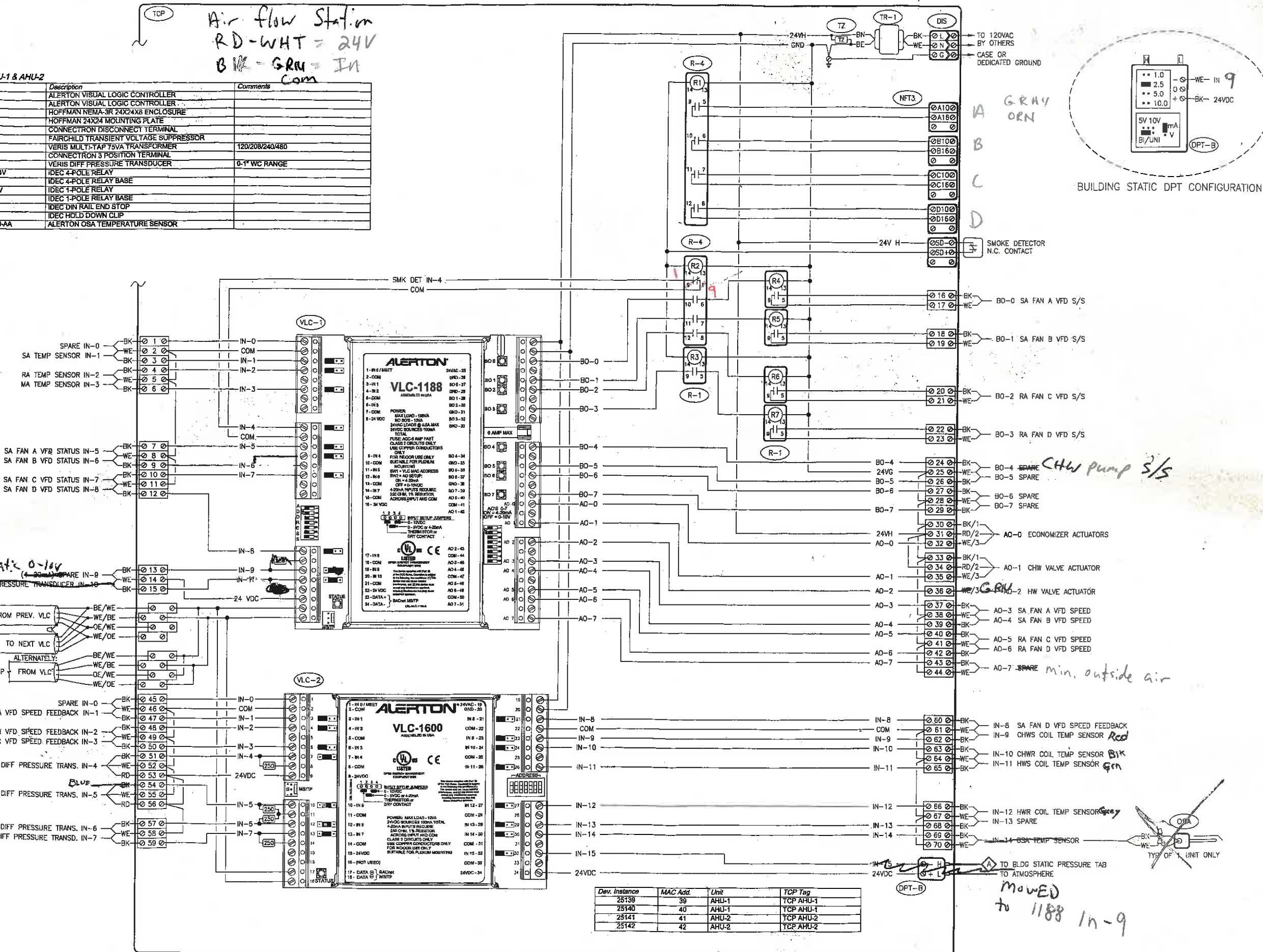
Air flow Station
RD-WHT = 24V
B BK - GRN = In
Com

A = Supply 1
B = Supply 2
C = Return 1
D = Return 2

CHW
C.T.

BIDG static 0-10v

CONNECT SHIELDS AND ISOLATE
DO NOT GROUND AT TCP'S
MS/TP DATA LINES ONLY
GROUNDED AT BCM



ENGINEER
GLUMAC & ASSOCIATES
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July 17, 2006

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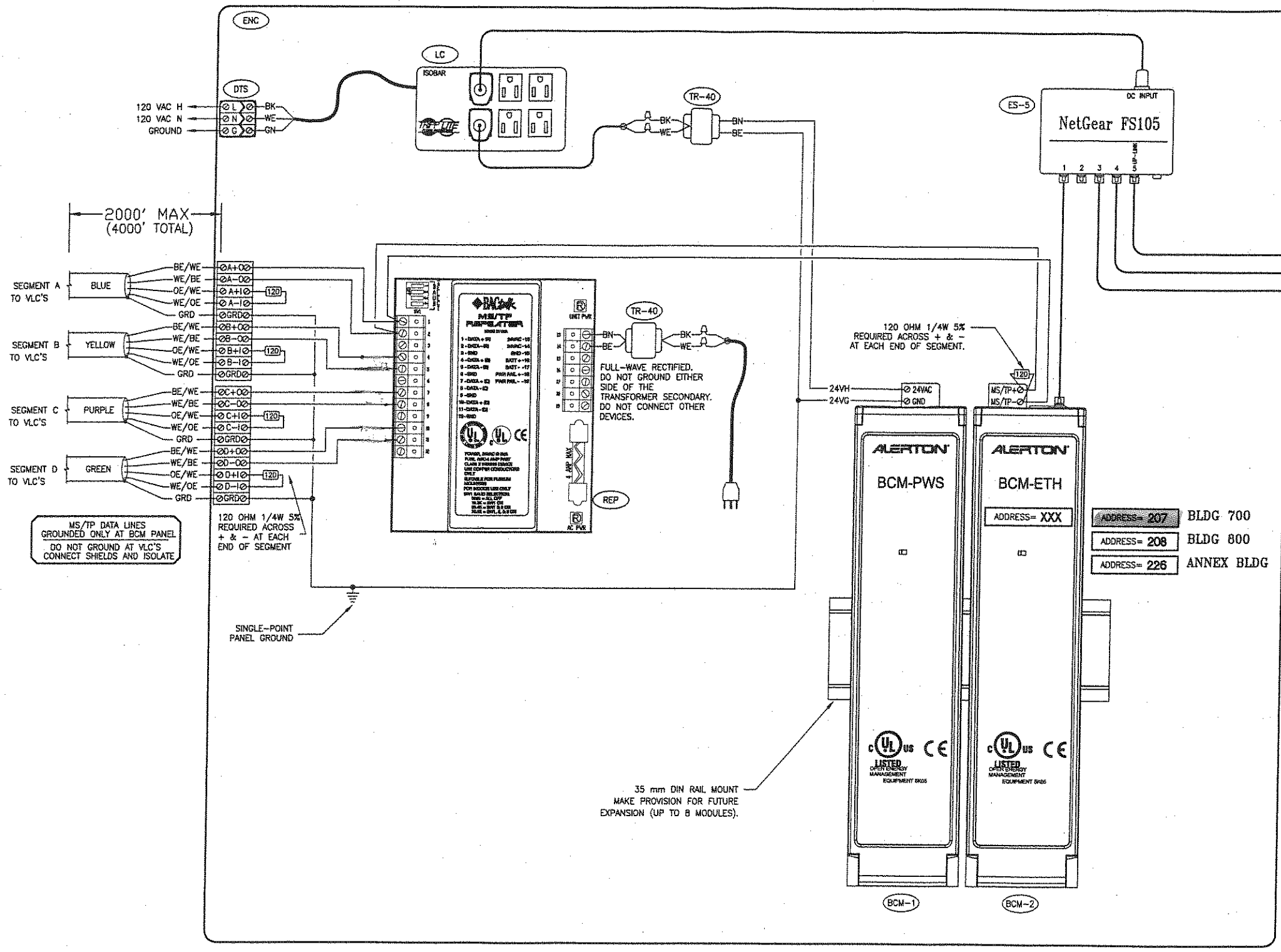
Synerco
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Contractors License # 483939

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SCC STUDENT SERVICES BLDG. 400
4000 SUISUN VALLEY RD. FAIRFIELD, CA 94534
ALERTON
AUTHORIZED DEALER

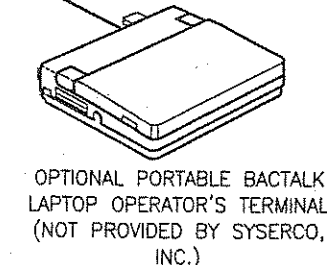
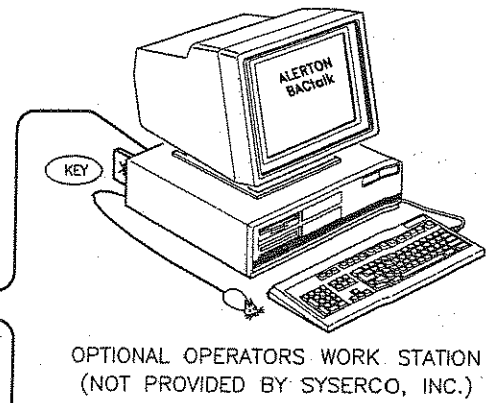
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FILE P-4488.DWC
LAYER 12
JOB NUMBER P-4488
SHEET 1.1
CC 1.02

VARIABLE AIR VOLUME HANDLER WIRING DIAGRAM



BCM #1



COMMENT DATE 11/5/2018 - IT IS ASSUMED 'ANNEX' WAS RENAMED TO BE BUILDING 900 AFTER COMPLETION OF THIS PROJECT

Panel Devices Parts List:

Tg	Qty	Part Number	Description	Comments
ENC	3	A24N24ALP	HOFFMAN NEMA-1 24X24X6 ENCLOSURE	
	3	A24N24MP	HOFFMAN 24X24 MOUNTING PLATE	
	3	A-112-B	HOFFMAN KEY LOCK KIT FOR TCP	
BCM-1	3	BCM-PWS	ALERTON BACTALK CONTROL MODULE	POWER SUPPLY
BCM-2	3	BCM-ETH	ALERTON BACTALK CONTROL MODULE	1/1 ETHERNET, 1 MS/TP
ES-5	3	FS105	NETGEAR 5-PORT ETHERNET SWITCH	
DTS	3	PLU-3	CONNECTRON POWER SURGE-SPIKE PROTECTOR	
LC	3	ISOBAR6	TRIPPLITE SURGE SUPPRESSOR	
TR-40	6	X040AAA	VERIS 120/40VAC 40VA TRANSFORMER	
REP	3	MS/TP REPEATER	ALERTON SMART MS/TP REPEATER	
KEY	1	ENVISSION TECH KEY - USB	ALERTON SOFTWARE KEY	

900

BCM GLOBAL CONTROLLER WIRING DIAGRAM

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Integrated Building Systems

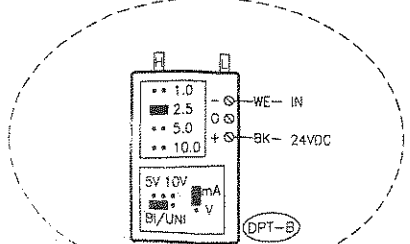
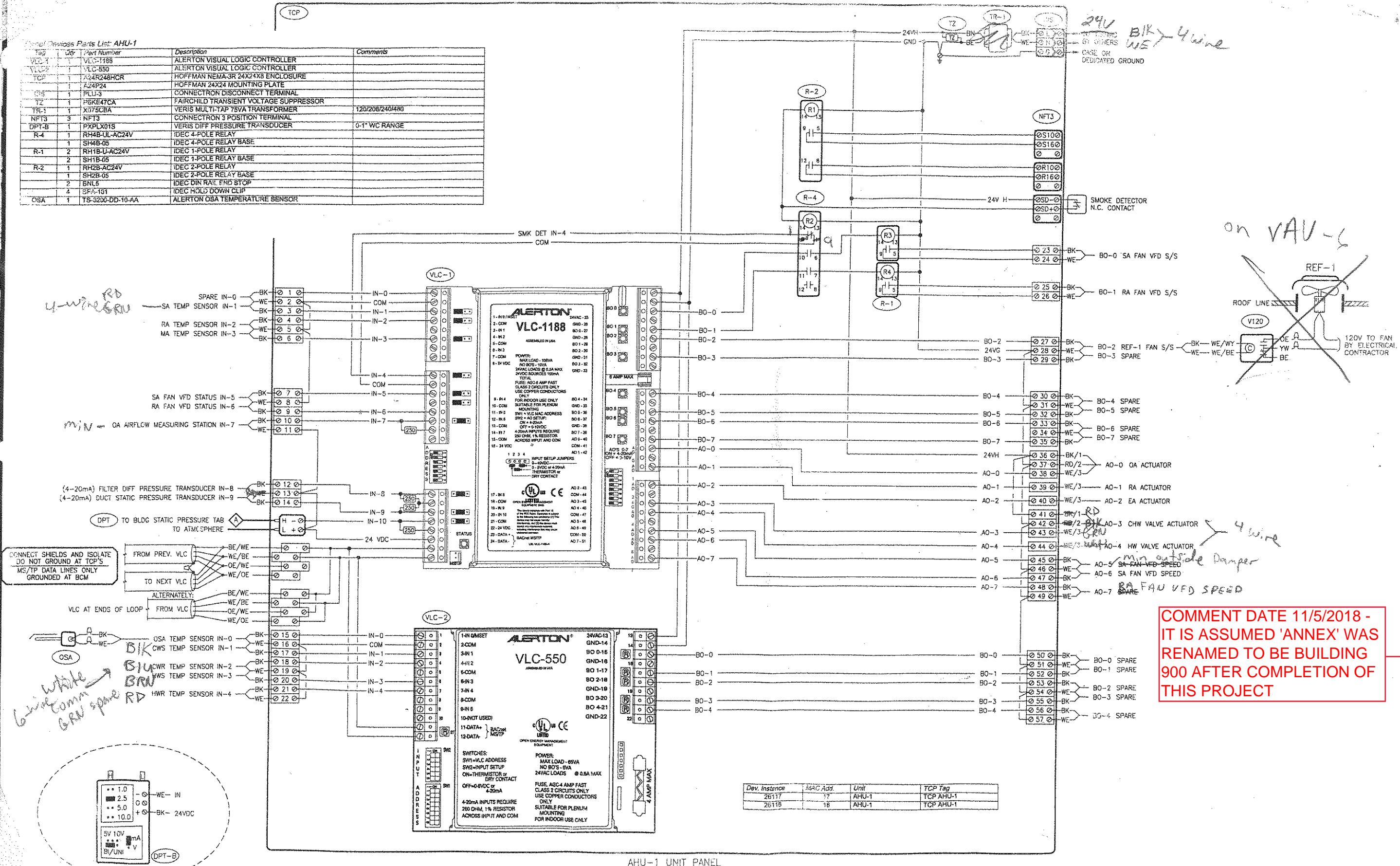
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SCC BUILDINGS 700, 800 & ANNEX
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AUTHORIZED DEALER

#	DATE	REVISION

FILE P-4492.DWG
LAYER 03
JOB NUMBER P-4492
SHEET I.D.
22 2 27

Tag	Qty	Part Number	Description	Comments
VLC-1	1	VLC-1188	ALERTON VISUAL LOGIC CONTROLLER	
VLC-2	1	VLC-550	ALERTON VISUAL LOGIC CONTROLLER	
TCP	1	A24R248HCR	HOFFMAN NEMA-3R 24X24X8 ENCLOSURE	
PLU-1	1	A24P24	HOFFMAN 24X24 MOUNTING PLATE	
PLU-2	1	PLU-3	CONNECTRON DISCONNECT TERMINAL	
TZ	1	PSKE47CA	FAIRCHILD TRANSIENT VOLTAGE SUPPRESSOR	
TR-1	1	X375CBA	VERIS MULTI-TAP 75VA TRANSFORMER	120/208/240/480
NFT3	3	NFT3	CONNECTRON 3 POSITION TERMINAL	
DPT-B	1	PKPLX01S	VERIS DIFF PRESSURE TRANSDUCER	0-1" WC RANGE
R-4	1	RH4B-UL-AC24V	IDEC 4-POLE RELAY	
R-1	1	SH4B-05	IDEC 4-POLE RELAY BASE	
R-1	2	RH1B-UL-AC24V	IDEC 1-POLE RELAY	
R-1	2	SH1B-05	IDEC 1-POLE RELAY BASE	
R-2	1	RH2B-AC24V	IDEC 2-POLE RELAY	
R-2	1	SH2B-05	IDEC 2-POLE RELAY BASE	
R-2	2	BNL5	IDEC DIN RAIL END STOP	
R-2	4	SFA-101	IDEC HOLD DOWN CLIP	
OSA	1	TS-320C-DD-10-AA	ALERTON OSA TEMPERATURE SENSOR	



Dev. Instance	ASIC Addr.	Unit	TCP Tag
26117	17	AHU-1	TCP AHU-1
26118	18	AHU-1	TCP AHU-1

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 LAYER 13
 JOB NUMBER
 7-449
 SHEET I.D.
 1.02

AHU-1 UNIT WIRING DIAGRAM - ANNEX BUILDING

SOLANO COMMUNITY COLLEGE

BUILDING 1700A GYMNASIUM RENOVATION

4000 SUISUN VALLEY RD. FAIRFIELD, CA 94534

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ENERGY MANAGEMENT SYSTEM DIAGRAMS

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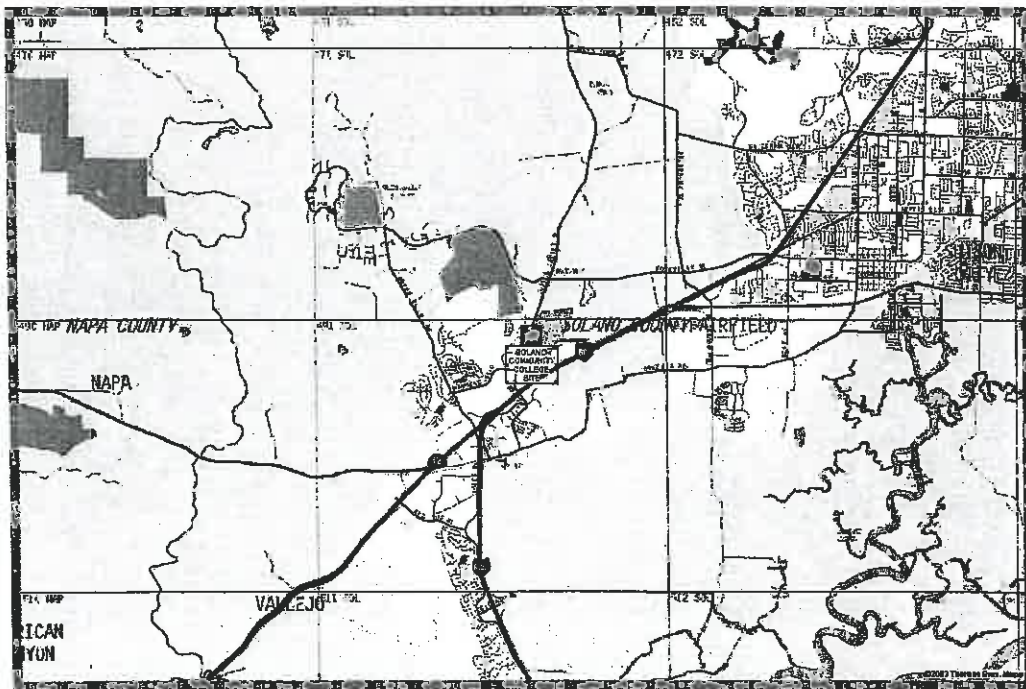


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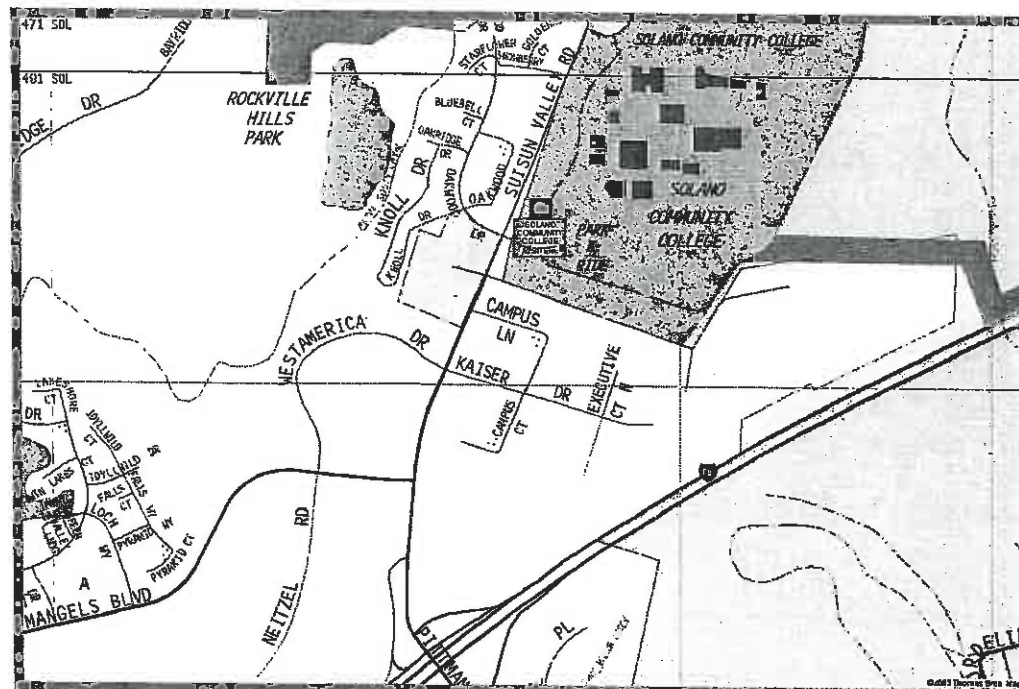
DATE	DESCRIPTION	BY
01/10/08	AS-BUILT	BAR

AREA MAP



SITE LOCATION

VICINITY MAP



DRAWING INDEX

PAGE#	DESCRIPTION
CC 0.01P	TITLE SHEET
CC 0.02	GLOBAL DEVICE ADDRESS CHART
CC 0.03	BCM GLOBAL CONTROLLER WIRING DIAGRAM
CC 0.04P	BCM-ETH # 227 ADDRESS CHART
CC 0.05P	SEQUENCE OF OPERATIONS
CC 0.06	BCM-ETH # 227 CONFIGURATION SETTINGS
CC 0.07P1	AHU & AC UNITS VALVE SCHEDULE
CC 0.07P2	VAV & <E> RH UNITS VALVE SCHEDULE
CC 1.01	VAV HVAC UNIT EQUIPMENT DIAGRAM
CC 1.02	VAV HVAC UNIT WIRING DIAGRAM
CC 1.03	AC-CV UNIT EQUIPMENT DIAGRAM
CC 1.04	AC-CV UNIT WIRING DIAGRAM
CC 1.05	REHEAT VAV BOX CONTROL DIAGRAM
CC 1.06	<E> REHEAT BOX UNIT CONTROL DIAGRAM
CC 1.07	EXHAUST FAN PANEL CONTROL DIAGRAM
CC 2.01	MECHANICAL FLOOR PLAN - BUILDING 1700A
CC 2.02	MECHANICAL ROOF PLAN - BUILDING 1700A

PROJECT
SCC BUILDING 1700A GYM RENOVATION
4000 SUISUN VALLEY RD. FAIRFIELD, CA 94534
ALERTON[®]
AUTHORIZED DEALER
BACtalk

FILE P-4803.DWG
JOB NUMBER
P-4803
SHEET I.D.
CC 0.01P



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DATE	DESCRIPTION	BY
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SOLANO COMMUNITY COLLEGE BACnet GLOBAL DEVICE ADDRESS SCHEDULE

DEVICE ID	DEVICE TYPE	DESCRIPTION	USER	LOCATION	JOB
0-99	Laptop Computers	RESERVED			
10	Workstation	BACtalk Front End			
50	Workstation	Wayne's laptop			
51	Workstation	Wayne's laptop 2			
52	Workstation	BACtalk front end			
53	Workstation	BACtalk front end		Chiller Room	
54	Workstation	BACtalk front end			
100-199	Workstations	RESERVED			
112	Workstation			Engineer's Office, Engineering Building	P-2820
200-250	LSI'S	RESERVED			
201	BTI Controller	Global Controller		Building 100 - Library	P-2820
202	BACtalk Router	Global Controller		Building 200	P-3195
203	BACtalk Router	Global Controller		Building 300	P-3195
205	BACtalk Router	Global Controller		Building 500	P-3195
206	BACtalk Router	Global Controller		Building 600	P-3195
207	BACtalk Router	Global Controller		SCC Building 700 - 4000 Suisun Valley Rd. Fairfield, CA	P-4492
208	BACtalk Router	Global Controller		SCC Building 800 - 4000 Suisun Valley Rd. Fairfield, CA	P-4492
209	BACtalk Router	Global Controller		Building 900	P-3195
210	BACtalk Router	Global Controller		Building 1000	
211	BACtalk Router	Global Controller		Building 1100	
212	BACtalk Router	Global Controller		Building 1200	
213	BACtalk Router	Global Controller		Building 1300	
214	BTI Controller	Global Controller		Building 1400	P-3883
215	BACtalk Router	Global Controller		Building 1500	
216	BACtalk Router	Global Controller		Building 1600	P-3195
218	BACtalk Router	Global Controller		Building 1800-A, Mechanical Room 1812	P-3195
219	BACtalk Router	Global Controller		Building 1900 - Maintenance Building	P-3424
220	BTI Controller	Global Controller		Central Plant Building 2000 & Building 1700B	P-3080
221	Modbus Port	Modbus Device			
222	BCM Module	Global Controller		Building 1800-B, Mechanical Room 1850	P-4224
223	BCM Module	Global Controller		Vallejo Education Center - 545 Columbus Parkway Vallejo, CA 94591	P-4483
224	BCM-ETH	Global Controller		Student Services Building 400 - 4000 Suisun Valley Rd. Fairfield, CA	P-4488
225	BCM-MS/TP	Global Controller		Student Services Building 400 - 4000 Suisun Valley Rd. Fairfield, CA	P-4488
226	BCM-ETH	Global Controller		SCC Annex Building - 4000 Suisun Valley Rd. Fairfield, CA	P-4492
227	BCM-ETH	Global Controller		SCC Building 1700A Gymnasium - 4000 Suisun Valley Rd. Fairfield, CA	P-4803
1000-27000	Unitary Controllers	RESERVED			
1001-1099	VLC'S	Unitary Controllers		Building 100	P-2820
2001-2099	VLC'S	Unitary Controllers		Building 200	P-3195
3001-3099	VLC'S	Unitary Controllers		Building 300	P-3195
5001-5099	VLC'S	Unitary Controllers		Building 500	P-3195
7001-7999	VLC'S	Unitary Controllers		SCC Building 700 - 4000 Suisun Valley Rd. Fairfield, CA	P-4492
8001-8999	VLC'S	Unitary Controllers		SCC Building 800 - 4000 Suisun Valley Rd. Fairfield, CA	P-4492
9001-9099	VLC'S	Unitary Controllers		Building 900	P-3195
10001-10099	VLC'S	Unitary Controllers		Building 1000	
13001-13099	VLC'S	Unitary Controllers		Building 1300	
14001-14099	VLC'S	Unitary Controllers		Building 1400	P-3883
15001-15099	VLC'S	Unitary Controllers		Building 1500	
16001-16099	VLC'S	Unitary Controllers		Building 1600	P-3195
17010	York BACDrop	York Chiller Interface		Central Plant Building 2000	
18001-18099	VLC'S	Unitary Controllers		Building 1800	P-3195
19001-19099	VLC'S	Unitary Controllers		Building 1900	P-3424
20001-20099	VLC'S	Unitary Controllers		Central Plant & Building 1700	P-3080
22001-22099	VLC'S	Unitary Controllers		Building 1800-B	P-4224
23000-23999	VLC'S	Unitary Controllers		Vallejo Education Center - 545 Columbus Parkway Vallejo, CA 94591	
24000-24999	VLC'S	Unitary Controllers		Student Services Building 400 - 4000 Suisun Valley Rd. Fairfield, CA	P-4488
25000-25999	VLC'S	Unitary Controllers		Student Services Building 400 - 4000 Suisun Valley Rd. Fairfield, CA	P-4488
26000-26999	VLC'S	Unitary Controllers		SCC Annex Building - 4000 Suisun Valley Rd. Fairfield, CA	P-4492
27000-27999	VLC'S	Unitary Controllers		SCC Building 1700A Gymnasium - 4000 Suisun Valley Rd. Fairfield, CA	P-4803

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GLOBAL DEVICE ADDRESS CHART

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SCC BUILDING 1700A GYM RENOVATION
4000 SUISUN VALLEY RD. FAIRFIELD, CA 94534

ALERTON
AUTHORIZED DEALER

BACtalk

FILE P-4803.DWG
JOB NUMBER
P-4803
SHEET I.D.
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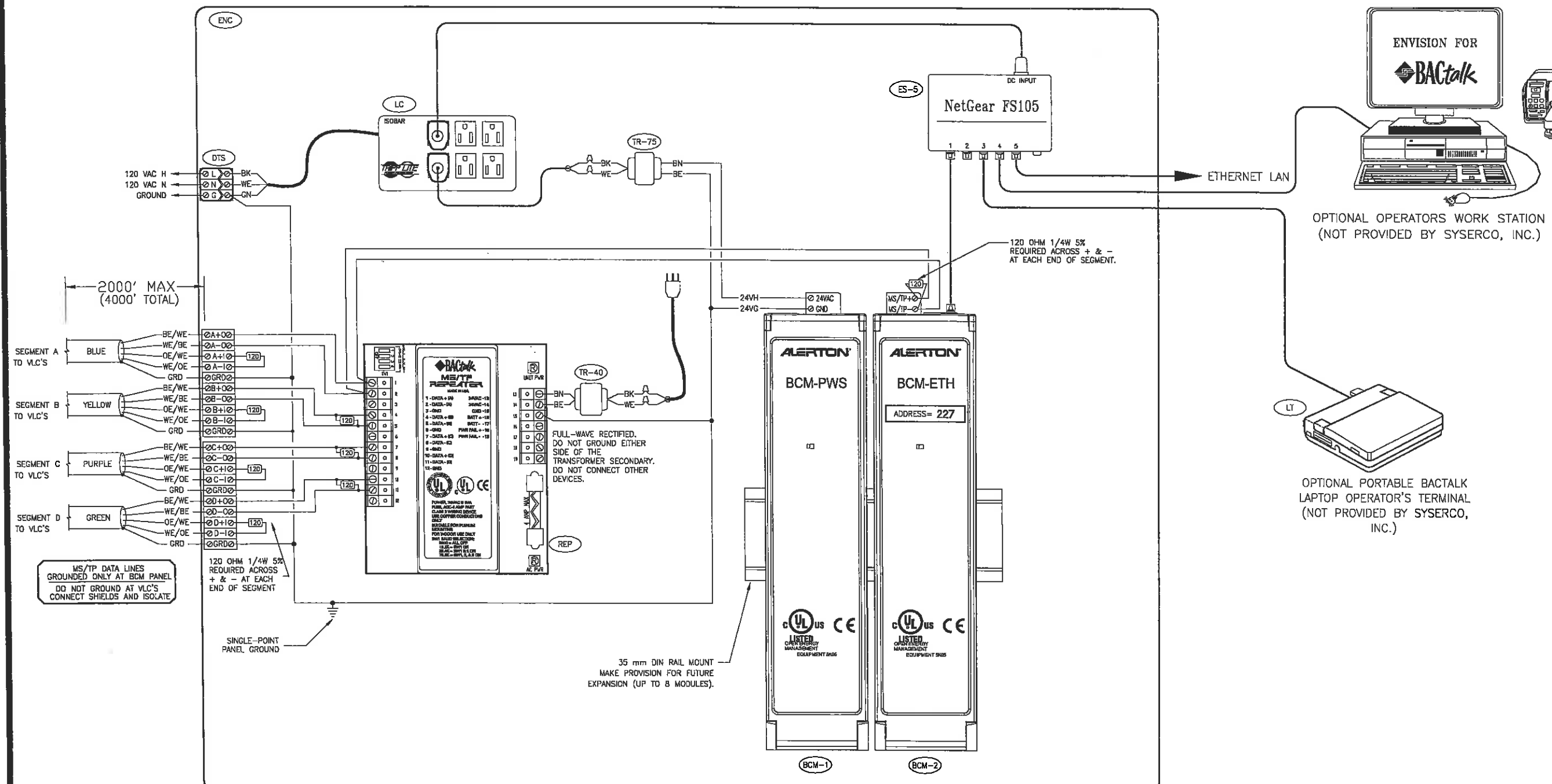
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DATE	DESCRIPTION	BY

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FILE P-4803.DWG
JOB NUMBER P-4803
SHEET I.D. CC 0.03



PANEL DEVICES				
TAG	QTY	PART NUMBER	DESCRIPTION	COMMENTS
ENC	1	A24N20ALP	HOFFMAN NEMA-1 24X20 ENCLOSURE	
	1	A24N20MP	HOFFMAN 24X20 MOUNTING PLATE	
	1	A-L12-B	HOFFMAN KEY LOCK KIT FOR TCP	
BCM-1	1	BCM-PWS	ALERTON BACTalk CONTROL MODULE	POWER SUPPLY
BCM-2	1	BCM-ETH	ALERTON BACTalk CONTROL MODULE	W/1 ETHERNET LAN, 1 MS/TP LAN
ES-5	1	FS105	NETGEAR 5-PORT ETHERNET SWITCH	
DTS	1	PLU-3	CONNECTRON DISCONNECT TERMINAL STRIP	
LC	1	ISOBAR8	TRIPPLITE POWER SURGE-SPIKE PROTECTOR	
TR-75	1	X075CBA	VERIS MULTI-TAP 75VA TRANSFORMER	120/208/240/480
TR-40	1	4X746	DORMEYER 120/24VAC 40VA TRANSFORMER	
REP	1	MSTP-REP	ALERTON MULTIPLE-SEGMENT MS/TP REPEATER	

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BCM GLOBAL CONTROLLER WIRING DIAGRAM

BCM-ETH 227 Network Address Information

Device Instance: 227
 EtherNet Network No.: 10
 Location: Mechanical Room 1748 Bldg. 1700A

MS/TP LAN Network: 2271

Device Instance	MAC Address	Dev. Type	DESCRIPTION	SERVES	Building	Job	Interlock	Ref. Dwg.	Device Instance	MAC Address	Dev. Type	DESCRIPTION	SERVES	Building	Job	Interlock	Ref. Dwg.
227	98								27133	33							
27101	1	VAV-SD	VAV 1-1	OFFICE 1730	GYM	P-4803		CC 1.05	27134	34							
27102	2	VAV-SD	VAV 1-2	OFFICE 1728	GYM	P-4803		CC 1.05	27135	35							
27103	3	VAV-SD	VAV 1-3	OFFICE 1716	GYM	P-4803		CC 1.05	27136	36							
27104	4	VAV-SD	VAV 1-4	OFFICE 1712 & VIDEO 1711	GYM	P-4803		CC 1.05	27137	37							
27105	5	VAV-SD	VAV 1-5	OFFICES 1727, 1728 & 1725	GYM	P-4803		CC 1.05	27138	38							
27106	6	VAV-SD	VAV 1-6	OFFICES 1722, 1723 & 1724	GYM	P-4803		CC 1.05	27139	39							
27107	7	VAV-SD	VAV 1-7	MEN'S LOCKERS 1708	GYM	P-4803		CC 1.05	27140	40							
27108	8	VAV-SD	VAV 2-1	CORRIDOR 1721	GYM	P-4803		CC 1.05	27141	41							
27109	9	VAV-SD	VAV 2-2	RECEPTION 1734	GYM	P-4803		CC 1.05	27142	42							
27110	10	VAV-SD	VAV 2-3	WAITING ROOM 1720	GYM	P-4803		CC 1.05	27143	43							
27111	11	VAV-SD	VAV 2-4	DEAN 1733	GYM	P-4803		CC 1.05	27144	44							
27112	12	VAV-SD	VAV 2-5	WORK ROOM 1732	GYM	P-4803		CC 1.05	27145	45							
27113	13	VAV-SD	VAV 2-6	CONFERENCE 1737	GYM	P-4803		CC 1.05	27146	46							
27114	14	VAV-SD	VAV 2-7	RR 1735 & 1736	GYM	P-4803		CC 1.05	27147	47							
27115	15	VAV-SD	<E>RHC-5	CARDIO CONDIT. RM 1704	GYM	P-4803		CC 1.08	27148	48							
27116	16	VAV-SD	<E>RHC-6	CIRCUIT TRAINING 1705	GYM	P-4803		CC 1.08	27149	49							
27117	17	VAV-SD	<E>RHC-7	SPORTS MEDICINE 1758	GYM	P-4803		CC 1.08	27150	50							
27118	18	VAV-SD	<E>RHC-8	MEN'S LOCKER 1762	GYM	P-4803		CC 1.08	27151	51							
27119	19	VAV-SD	<E>RHC-9	TEAM ROOM 1743	GYM	P-4803		CC 1.08	27152	52							
27120	20	VAV-SD	<E>RHC-10	WOMEN'S LOCKER 1745	GYM	P-4803		CC 1.08	27153	53							
27121	21	VAV-SD	<E>RHC-11	RM 1740	GYM	P-4803		CC 1.08	27154	54							
27122	22	VAV-SD	<E>RHC-12	AEROBICS RM 1739	GYM	P-4803		CC 1.08	27155	55							
27123	23	VLC-853	AC-1	GYMNASIUM 1701	GYM	P-4803		CC 1.04	27156	56	VLC-550	EF PANEL 1	EF UNITS	GYM	P-4803		CC 1.07
27124	24	VLC-853	AC-2	<E>RH UNITS	GYM	P-4803		CC 1.04	27157	57	VLC-550	EF PANEL 2	EF UNITS	GYM	P-4803		CC 1.07
27125	25	VLC-853	AC-3	GYMNASIUM 1701	GYM	P-4803		CC 1.04	27158	58	VLC-550	EF PANEL 3	EF UNITS	GYM	P-4803		CC 1.07
27126	26	VLC-853	AC-4	<E>RH UNITS	GYM	P-4803		CC 1.04	27159	59	VLC-1188	AHU-1	VAV UNITS 1-X	GYM	P-4803		CC 1.02
27127	27	VLC-853	AC-5	GYMNASIUM 1701	GYM	P-4803		CC 1.04	27160	60	VLC-1188	AC-9	VAV UNITS 2-X	GYM	P-4803		CC 1.02
27128	28	VLC-853	AC-6	<E>RH UNITS	GYM	P-4803		CC 1.04	27161	61							
27129	29	VLC-853	AC-7	<E>RH UNITS	GYM	P-4803		CC 1.04	27162	62							
27130	30	VLC-853	AC-8	GYMNASIUM 1701	GYM	P-4800		CC 1.04	27163	63							
27131	31								27164	64							
27132	32																

V:_job\Engineering\Job\Plz\ISOLANO COMMUNITY COLLEGE MASTER(Solano Community College Address Schedules.xls)\BCM-227
 1/24/2008 11:42

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 Integrated Building Systems
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DATE
 January 8, 2008

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DATE	DESCRIPTION	BY
01/10/08	AS-BUILT	BAR

PROJECT
SCC BUILDING 1700A GYM RENOVATION
 4000 SUISUN VALLEY RD. FAIRFIELD, CA 94534
ALERTON
 AUTHORIZED DEALER
BACTalk

FILE P-4803.DWG
 JOB NUMBER P-4803
 SHEET I.D. CC 0.04P

"AS-BUILT"
 DEC 2008
 BAR

SEQUENCE OF OPERATION



SYSTEM OPERATION

Provide an Alerton BACtalk System to match existing college standards. All system temperatures and status shall be displayed and be adjustable from the Alerton Computer Workstation. Contact Solano College Temperature Control Contractor (TCC) at Syserco, Inc. (510) 498-1171.

VAV AIR HANDLERS

During periods of occupancy the AH unit VLC controller will enable the supply and return fan VFD'S, open the economizer damper to minimum position. The BCM Global Controller will monitor all of the VAV zones and determine whether to operate the AH unit in heating, cooling mode. Once a mode has been established, the AH unit VLC will cycle the heating, cooling and economizer as necessary to maintain supply air set point. The AH VLC controller will reset the supply air set point to satisfy the zone with the highest demand. TCC (Temperature Control Contractor) shall provide all economizer controls from VLC controller. Economizer algorithms shall be based upon global outside air dry bulb temperature sensor and unit supply air sensor. Minimum outside air damper position shall be displayed and adjustable from each detailed individual unit control panel graphic. On a call for cooling, the VLC controller will modulate the economizer dampers to operate as the first stage of cooling as long as the outside air temperature is below the outside air lockout temperature set at 65°F (adjustable). If during economizer operation, the outside air cannot maintain the supply air cooling set point then the VLC will modulate the chilled water valve in conjunction with the economizer to maintain the supply air cooling set point. If the temperature rises above the outside air lockout temperature the VLC will close the economizer damper to minimum position and modulate the chilled water valve to maintain supply air cooling set point. On a call for heating the VLC will position the economizer dampers to minimum position and modulate the heating coil valve to maintain supply air heating set point. The outside air damper will be modulated closed upon unit shutdown.

TCC to provide high duct pressure switches interlocked to the emergency stop contacts of the fan VFD'S as necessary to disable the unit when the supply duct pressure exceeds acceptable range.

PRESSURE CONTROL

The supply fan VFD will be modulated to maintain duct static pressure set point. The return fan VFD will be modulated to maintain building static pressure set point. Differential pressure transducer locations and set points to be determined during start up.

CONSTANT VOLUME AIR HANDLERS

During periods of occupancy the AH unit VLC controller will enable the supply and return fans, open the economizer damper to minimum position. The AH unit VLC will modulate the heating valve, cooling valve and economizer as necessary to maintain room temperature set point. TCC shall provide all economizer controls from VLC controller. Economizer algorithms shall be based upon global outside air dry bulb temperature sensor and unit supply air sensor. Minimum outside air damper position shall be displayed and adjustable from each detailed individual unit control panel graphic. On a call for cooling the VLC controller will modulate the economizer dampers to operate as the first stage of cooling as long as the outside air temperature is below the outside air lockout temperature set at 65°F (adjustable). If during economizer operation, the outside air cannot maintain the supply air cooling set point then the VLC will modulate the chilled water valve in conjunction with the economizer to maintain the supply air cooling set point. If the temperature rises above the outside air lockout temperature the VLC will close the economizer damper to minimum position and modulate the chilled water valve to maintain supply air cooling set point. On a call for heating the VLC will position the economizer dampers to minimum position and modulate the heating coil valve to maintain supply air heating set point. The outside air damper will be modulated closed upon unit shutdown.

Provide a filter differential pressure transducer for filter loading.

DUCT SMOKE DETECTORS

Fire Alarm Contractor to provide acceptable fire marshal approved supply air duct smoke detector for all units listed to shut down upon detection of products of combustion. Temperature Control Contractor to install air handler duct mounted smoke detectors and interlock wiring to the emergency stop contacts of the fan VFD'S. Division 16 to install any duct smoke detectors that are interlocked to the Fire/Smoke Dampers. Division 16 to provide interlock wiring from the Fire/Smoke dampers to the Fire Alarm System. Division 16 to provide all 120V power for duct detectors and Fire/Smoke dampers.

VAV BOXES

Each VAV Box compares its room temperature with the air handler supply air temperature to determine the VAV box mode. Each SDVAV VLC controller will communicate its zone demand to the BCM controller for air handler reset. The SDVAV VLC controller shall modulate the VAV box damper and reheat valve to maintain room set point. The SDVAV VLC controller shall reverse the action of the VAV Box whenever the AHU is in morning warm-up mode.

POWER WIRING

Power wiring to all equipment and 120V power wiring to control panels shall be by Electrical Contractor. All 24V power wiring to VAV Box controls shall be by Temperature Controls Contractor



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SYSERCO ENGINEER
RAB

ENG. CHK SALES CHK

DATE
January 8, 2008

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CONTRACTOR
BAY CITY
MECHANICAL, INC.
543 South 31st Street
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DATE DESCRIPTION BY

01/10/08 AS-BUILT BAR

PROJECT
SCC BUILDING 1700A GYM RENOVATION
4000 SUISUN VALLEY RD. FAIRFIELD, CA 94534



ALERTON
AUTHORIZED DEALER

FILE P-4803.DWG

JOB NUMBER

P-4803

SHEET I.D.

CC 0.05P

BCM-ETH 227 Configuration Settings

Device Settings

Device Instance:	227	Description:	Solano Community College 1700A
Model Type:	BCM-ETH	Location:	Building 1700A Gym

Ethernet Settings:

BACnet/Ethernet	Y	Ethernet Net #:	10	Ethernet MAC:	
-----------------	---	-----------------	----	---------------	--

MS/TP Settings

Net #:	2271	MAC:	0	Speed:	76.8Kbps	Support v1.02 VLS:	N
--------	------	------	---	--------	----------	--------------------	---

TUX Settings

Base Device Instance:		TUX Vnet Number:		Kbps:	9600
-----------------------	--	------------------	--	-------	------

PTP Settings

Vnet#:		Password:		Dial-in Enabled:	Y/N	Speaker:	Y/N	Country Code:	
--------	--	-----------	--	------------------	-----	----------	-----	---------------	--

IP Settings

IP Enabled:	N	IP Address:	
† Frame Type:	DIX *	UDP Port:	47808 *
† Reassembly Timeout:	120 *	Gateway 1 Address:	
† MAX MTU:	1500 *	Gateway 2 Address:	0 . 0 . 0 . 0 *
† Time to Live:	64 *	BDT Server IP Addr:	
† Type of Service:	0 *	BDT Server UDP Port:	47808 *
Virtual Net #:	7777	* = Factory Default Settings	
Subnet Mask:		† = Recommended DO NOT CHANGE Default Settings	

BDT Table Settings

	IP Address	UDP Port	† Subnet Mask		IP Address	UDP Port	† Subnet Mask
1		47808 *	255.255.255.255 *	17		47808 *	255.255.255.255 *
2		47808 *	255.255.255.255 *	18		47808 *	255.255.255.255 *
3		47808 *	255.255.255.255 *	19		47808 *	255.255.255.255 *
4		47808 *	255.255.255.255 *	20		47808 *	255.255.255.255 *
5		47808 *	255.255.255.255 *	21		47808 *	255.255.255.255 *
6		47808 *	255.255.255.255 *	22		47808 *	255.255.255.255 *
7		47808 *	255.255.255.255 *	23		47808 *	255.255.255.255 *
8		47808 *	255.255.255.255 *	24		47808 *	255.255.255.255 *
9		47808 *	255.255.255.255 *	25		47808 *	255.255.255.255 *
10		47808 *	255.255.255.255 *	26		47808 *	255.255.255.255 *
11		47808 *	255.255.255.255 *	27		47808 *	255.255.255.255 *
12		47808 *	255.255.255.255 *	28		47808 *	255.255.255.255 *
13		47808 *	255.255.255.255 *	29		47808 *	255.255.255.255 *
14		47808 *	255.255.255.255 *	30		47808 *	255.255.255.255 *
15		47808 *	255.255.255.255 *	31		47808 *	255.255.255.255 *
16		47808 *	255.255.255.255 *	32		47808 *	255.255.255.255 *

* = Factory Default Settings / † DO NOT CHANGE Subnet Mask of 255.255.255.255, must be left at Default Settings for proper operation

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BCM-ETH # 227 CONFIGURATION SETTINGS



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DATE	DESCRIPTION	BY
01/10/08	AS-BUILT	BAR

PROJECT
SCC BUILDING 1700A GYM RENOVATION
4000 SUISUN VALLEY RD. FAIRFIELD, CA 94534
ALERTON®
AUTHORIZED DEALER

FILE P--4803.DWG

JOB NUMBER

P-4803

SHEET I.D.

CC 0.06P



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DATE	DESCRIPTION	BY
01/10/08	AS-BUILT	BAR

COOLING COIL

UNIT TAG	WPD (FT)	GPM	COIL CV	VALVE CV	DROP (PSI)	SUPPLIER	PART NO.	TYPE	SIZE	WEATHER SHIELD
AHU-1 CC	5.70	24.00	15.27	19.0	1.80	BELIMO	B338 + ARB24-SR + NO + AHU-1 CC	3-WAY	1-1/2"	ZS-CCV-100
AC-1 CC	5.70	70.00	44.63	46.0	2.32	BELIMO	B349 + ARB24-SR + NO + AC-1 CC	3-WAY	2"	ZS-CCV-100
AC-2 CC	5.70	71.00	45.17	46.0	2.38	BELIMO	B349 + ARB24-SR + NO + AC-2 CC	3-WAY	2"	ZS-CCV-100
AC-3 CC	5.70	70.00	44.63	46.0	2.32	BELIMO	B349 + ARB24-SR + NO + AC-3 CC	3-WAY	2"	ZS-CCV-100
AC-4 CC	5.70	61.40	39.06	37.0	2.75	BELIMO	B348 + ARB24-SR + NO + AC-4 CC	3-WAY	2"	ZS-CCV-100
AC-5 CC	5.70	70.00	44.63	46.0	2.32	BELIMO	B349 + ARB24-SR + NO + AC-5 CC	3-WAY	2"	ZS-CCV-100
AC-6 CC	5.70	61.40	39.06	37.0	2.75	BELIMO	B348 + ARB24-SR + NO + AC-6 CC	3-WAY	2"	ZS-CCV-100
AC-7 CC	5.70	38.00	24.17	19.0	4.00	BELIMO	B338 + ARB24-SR + NO + AC-7 CC	3-WAY	1-1/2"	ZS-CCV-100
AC-8 CC	5.70	71.00	45.17	46.0	2.36	BELIMO	B349 + ARB24-SR + NO + AC-8 CC	3-WAY	2"	ZS-CCV-100
AC-9 CC	5.70	38.00	24.17	19.0	4.00	BELIMO	B338 + ARB24-SR + NO + AC-9 CC	3-WAY	1-1/2"	ZS-CCV-100

HEATING COIL

UNIT TAG	WPD (FT)	GPM	COIL CV	VALVE CV	DROP (PSI)	SUPPLIER	PART NO.	TYPE	SIZE	WEATHER SHIELD
AHU-1 HC	0.90	7.40	11.85	4.70	2.48	BELIMO	B317 + LRB24-SR + NO + AHU-1 HC	3-WAY	3/4"	ZS-CCV-100
AC-1 HC	0.90	32.00	51.23	19.00	2.84	BELIMO	B330 + ARB24-SR + NO + AC-1 HC	3-WAY	1-1/4"	ZS-CCV-100
AC-2 HC	0.90	32.00	51.23	19.00	2.84	BELIMO	B330 + ARB24-SR + NO + AC-2 HC	3-WAY	1-1/4"	ZS-CCV-100
AC-3 HC	0.90	32.00	51.23	19.00	2.84	BELIMO	B338 + ARB24-SR + NO + AC-3 HC	3-WAY	1-1/2"	ZS-CCV-100
AC-4 HC	0.90	32.00	51.23	19.00	2.84	BELIMO	B330 + ARB24-SR + NO + AC-4 HC	3-WAY	1-1/4"	ZS-CCV-100
AC-5 HC	0.90	32.00	51.23	19.00	2.84	BELIMO	B330 + ARB24-SR + NO + AC-5 HC	3-WAY	1-1/4"	ZS-CCV-100
AC-6 HC	0.90	32.00	51.23	19.00	2.84	BELIMO	B330 + ARB24-SR + NO + AC-6 HC	3-WAY	1-1/4"	ZS-CCV-100
AC-7 HC	0.90	18.00	26.82	10.00	3.24	BELIMO	B323 + ARB24-SR + NO + AC-7 HC	3-WAY	1"	ZS-CCV-100
AC-8 HC	0.90	32.00	51.23	19.00	2.84	BELIMO	B330 + ARB24-SR + NO + AC-8 HC	3-WAY	1-1/4"	ZS-CCV-100
AC-9 HC	0.90	18.00	26.82	10.00	3.24	BELIMO	B323 + ARB24-SR + NO + AC-9 HC	3-WAY	1"	ZS-CCV-100

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1/15/2008



AHU & AC UNITS VALVE SCHEDULE

PROJECT
SCC BUILDING 1700A GYM RENOVATION
4000 SUISUN VALLEY RD. FAIRFIELD, CA 94534
ALERTON
AUTHORIZED DEALER
BACTalk

FILE P-4803.DWG
JOB NUMBER P-4803
SHEET I.D. CC 0.07P1



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DATE	DESCRIPTION	BY
01/10/08	AS-BUILT	BR

VAV VALVE SCHEDULE																
TAG	LOCATION	SERVES:	GPM	WPD FT H2O	COIL CV	VALVE CV	Drop (Psi)	BELIMO PART NUMBER	VALVE SIZE	TYPE	DESCRIPTION	SIZE	VAV MIN CFM	MAX CFM	WEATHER SHIELD	
VAV 1-1 HC	GYMNASIUM	OFFICE 1730	5.3	1.70	8.2	3.00	3.12	B312 + LRB24-3 + NO + VAV 1-1 HC	1/2"	3-WAY	CHARACTERIZED BALL VALVE	8	300	400		
VAV 1-2 HC	GYMNASIUM	OFFICE 1728	4.1	1.30	5.5	3.00	1.87	B312 + LRB24-3 + NO + VAV 1-2 HC	1/2"	3-WAY	CHARACTERIZED BALL VALVE	8	300	500		
VAV 1-3 HC	GYMNASIUM	OFFICE 1718	2.5	2.30	2.5	1.90	1.73	B311 + LRB24-3 + NO + VAV 1-3 HC	1/2"	3-WAY	CHARACTERIZED BALL VALVE	8	250	450		
VAV 1-4 HC	GYMNASIUM	OFFICE 1712 & VIDEO 1711	4.0	3.80	3.1	3.00	1.78	B312 + LRB24-3 + NO + VAV 1-4 HC	1/2"	3-WAY	CHARACTERIZED BALL VALVE	9	400	500		
VAV 1-5 HC	GYMNASIUM	OFFICES 1727, 1728 & 1725	4.0	3.80	3.1	3.00	1.78	B312 + LRB24-3 + NO + VAV 1-5 HC	1/2"	3-WAY	CHARACTERIZED BALL VALVE	10	400	750		
VAV 1-6 HC	GYMNASIUM	OFFICES 1722, 1723 & 1724	3.5	2.00	3.8	3.00	1.36	B312 + LRB24-3 + NO + VAV 1-6 HC	1/2"	3-WAY	CHARACTERIZED BALL VALVE	14	700	1000		
VAV 1-7 HC	GYMNASIUM	MEN'S LOCKERS 1708	3.5	2.00	3.8	3.00	1.36	B312 + LRB24-3 + NO + VAV 1-7 HC	1/2"	3-WAY	CHARACTERIZED BALL VALVE	9	550	550		
VAV 2-1 HC	GYMNASIUM	CORRIDOR 1721	3.5	2.00	3.8	1.80	3.38	B311 + LRB24-3 + NO + VAV 2-1 HC	1/2"	3-WAY	CHARACTERIZED BALL VALVE	14	1000	1800		
VAV 2-2 HC	GYMNASIUM	RECEPTION 1734	0.8	0.24	1.8	0.48	1.70	B308 + LRB24-3 + NO + VAV 2-2 HC	1/2"	3-WAY	CHARACTERIZED BALL VALVE	8	200	300		
VAV 2-3 HC	GYMNASIUM	WAITING ROOM 1720	0.5	0.24	1.6	0.30	2.78	B307 + LRB24-3 + NO + VAV 2-3 HC	1/2"	3-WAY	CHARACTERIZED BALL VALVE	8	300	500		
VAV 2-4 HC	GYMNASIUM	DEAN 1733	1.4	2.00	1.5	0.80	3.08	B309 + LRB24-3 + NO + VAV 2-4 HC	1/2"	3-WAY	CHARACTERIZED BALL VALVE	7	200	300		
VAV 2-5 HC	GYMNASIUM	WORK ROOM 1732	0.5	0.24	1.6	0.30	2.78	B307 + LRB24-3 + NO + VAV 2-5 HC	1/2"	3-WAY	CHARACTERIZED BALL VALVE	8	400	700		
VAV 2-6 HC	GYMNASIUM	CONFERENCE 1737	1.0	0.24	3.1	0.80	1.58	B309 + LRB24-3 + NO + VAV 2-6 HC	1/2"	3-WAY	CHARACTERIZED BALL VALVE	10	500	800		
VAV 2-7 HC	GYMNASIUM	RR 1735 & 1736	0.5	0.24	1.6	0.30	2.78	B307 + LRB24-3 + NO + VAV 2-7 HC	1/2"	3-WAY	CHARACTERIZED BALL VALVE	12	850	850		
<E>RH-5 HC	GYMNASIUM	CARDIO CONDT. RM 1704						TBD (Pending P-4803 RFI-response)								
<E>RH-6 HC	GYMNASIUM	CIRCUIT TRAINING 1705						TBD (Pending P-4803 RFI-response)								
<E>RH-7 HC	GYMNASIUM	SPORTS MEDICINE 1758						TBD (Pending P-4803 RFI-response)								
<E>RH-8 HC	GYMNASIUM	MEN'S LOCKER 1752						TBD (Pending P-4803 RFI-response)								
<E>RH-9 HC	GYMNASIUM	TEAM ROOM 1743						TBD (Pending P-4803 RFI-response)								
<E>RH-10 HC	GYMNASIUM	WOMEN'S LOCKER 1745						TBD (Pending P-4803 RFI-response)								
<E>RH-11 HC	GYMNASIUM	RM 1740						TBD (Pending P-4803 RFI-response)								
<E>RH-12 HC	GYMNASIUM	AEROBICS RM 1738						TBD (Pending P-4803 RFI-response)								

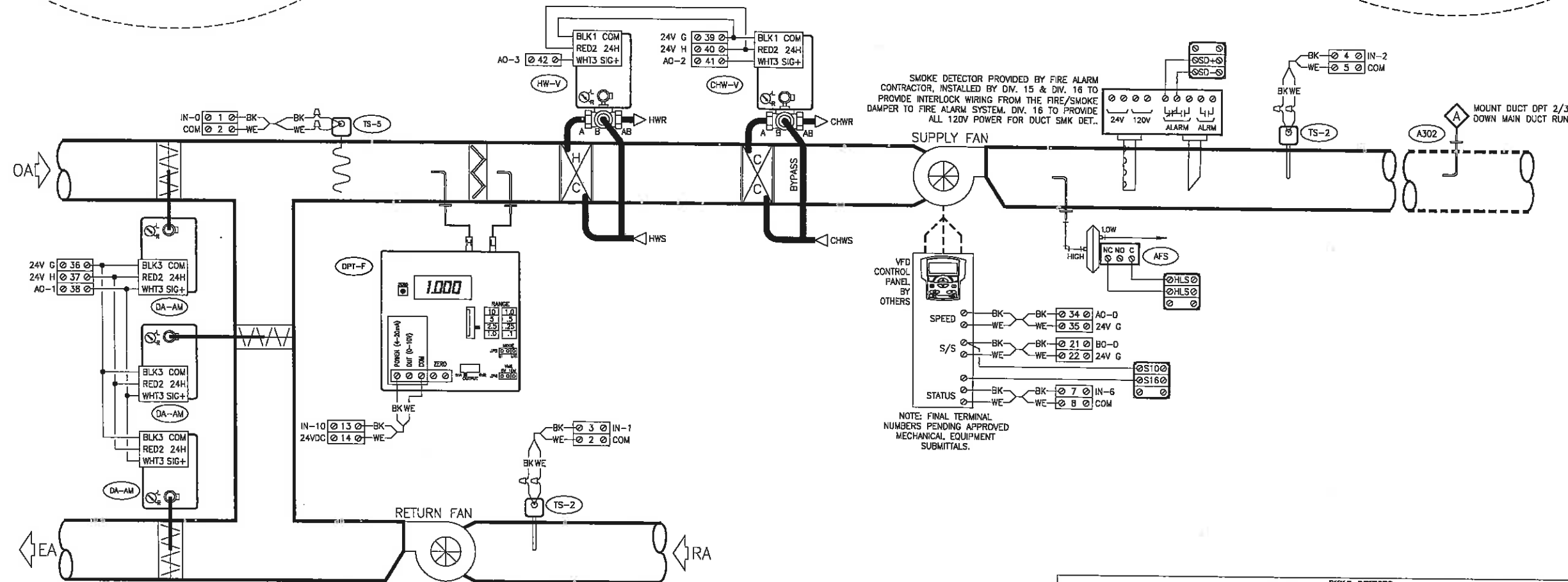
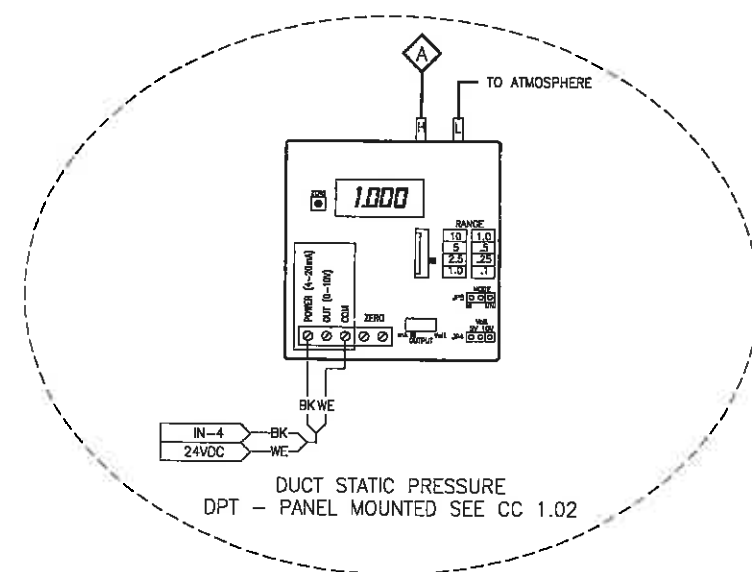
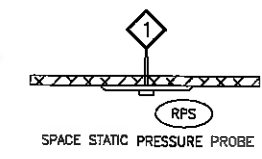
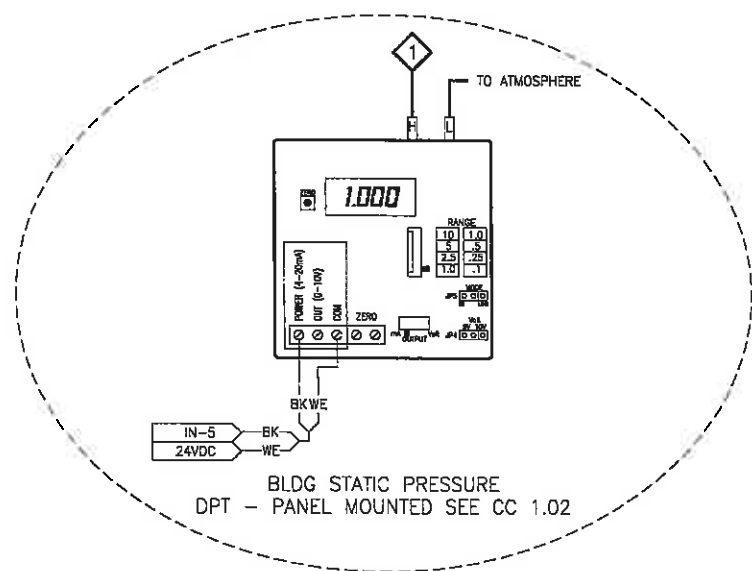
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1/24/2008 11:43

"AS-BUILT"
DEC 2008
BAR

VAV & <E>RH UNITS VALVE SCHEDULE

PROJECT
SCC BUILDING 1700A GYM RENOVATION
4000 SUISUN VALLEY RD. FAIRFIELD, CA 94534
ALERTON[®]
AUTHORIZED DEALER
BACTalk

FILE P-4803.DWG
JOB NUMBER
P-4803
SHEET I.D.
CC 0.07P2



SMOKE DETECTOR PROVIDED BY FIRE ALARM CONTRACTOR, INSTALLED BY DIV. 15 & DIV. 16 TO PROVIDE INTERLOCK WIRING FROM THE FIRE/SMOKE DAMPER TO FIRE ALARM SYSTEM. DIV. 16 TO PROVIDE ALL 120V POWER FOR DUCT SMK DET.

NOTE: FINAL TERMINAL NUMBERS PENDING APPROVED MECHANICAL EQUIPMENT SUBMITTALS.

NOTE: FINAL TERMINAL NUMBERS PENDING APPROVED MECHANICAL EQUIPMENT SUBMITTALS.

TYP OF 2 (AHU-1 & AC-9 UNITS)

TAG	QTY	PART NUMBER	DESCRIPTION	COMMENTS
TS-2	4	TS-2012-FB-10-AA	ALERTON 12" DUCT TEMPERATURE SENSOR	
TS-5	2	TS-5006-X0-10-AA	ALERTON 6" DUCT AVERAGE TEMPERATURE SENSOR	
DPT-F	2	PXDLX02S	VERIS DIFFERENTIAL PRESSURE TRANSDUCER	0-10" WC RANGE
A302	2	A-302	KELE STATIC PRESSURE TIP, 1/4" BARB	
RPS	2	A-345	KELE FLANGE MOUNTING KIT	
DA-AM	6	AMB24-SR	BELIMO DAMPER ACTUATOR	MODULATING, 180 IN-LB
AFS	2	AFS-460	KELE DIFFERENTIAL PRESSURE SWITCH, MANUAL RESET	.04"-12" RANGE, SET TO APPROX. 5"
CHW-V	2	SEE VALVE SCHEDULE		
HW-V	2	SEE VALVE SCHEDULE		

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VAV HVAC UNIT EQUIPMENT DIAGRAM



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(510) 233-7042 FAX

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PROJECT
SCC BUILDING 1700A GYM RENOVATION
4000 SUISUN VALLEY RD. FAIRFIELD, CA 94534

BACTalk

ALERTON
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FILE P-4803.DWG
JOB NUMBER P-4803
SHEET I.D.
CC 1.01



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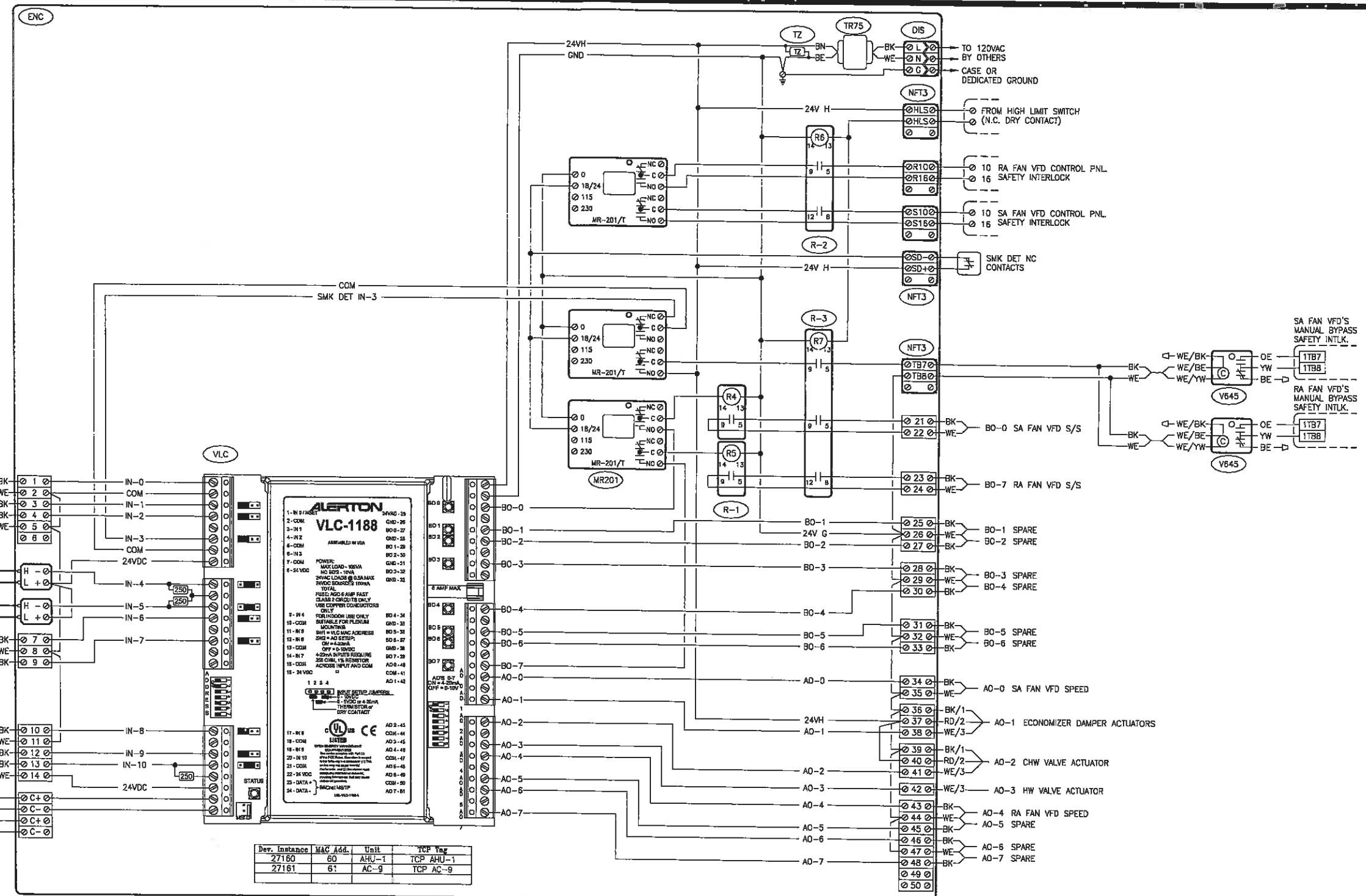
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01/10/08	AS-BUILT	BAR

DATE	DESCRIPTION	BY
01/10/08	AS-BUILT	BAR

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JOB NUMBER P-4803
SHEET I.D. CC 1.02



NOTE:
FOR IN-0 DISABLE
MICROSET AUTO
DETECT.

CONNECT SHIELDS AND ISOLATE
DO NOT GROUND AT TCP'S
MS/TIP DATA LINES ONLY
GROUNDED AT BCM

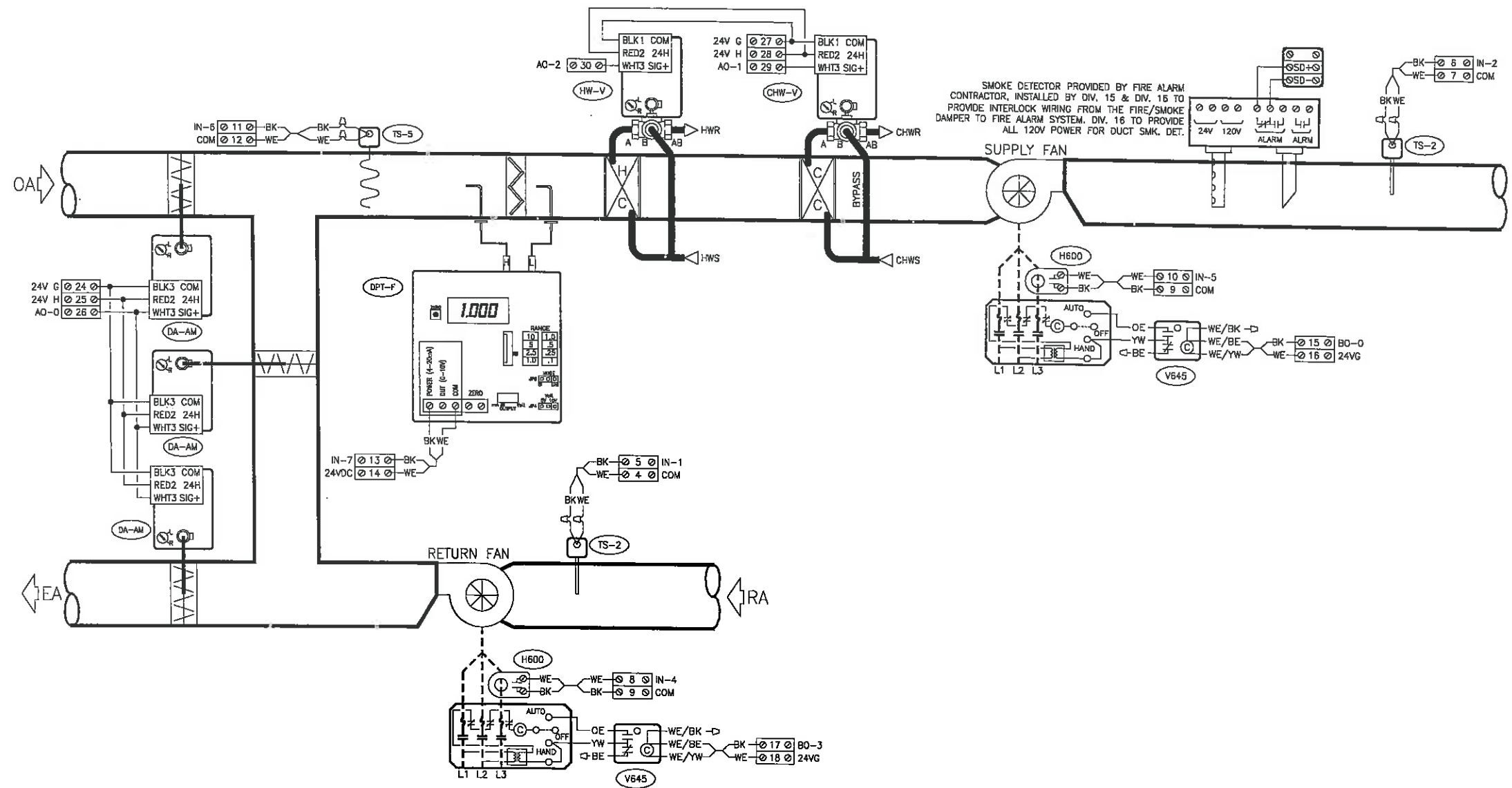
Dev.	Instance	MAC Add.	Unit	TCP Tag
	27160	60	AHU-1	TCP AHU-1
	27161	61	AC-9	TCP AC-9

TYP OF 2 (AHU-1 & AC-9)

TAG	QTY	PART NUMBER	DESCRIPTION	COMMENTS
VLC	2	VLC-1188	ALERTON VISUAL LOGIC CONTROLLER	
ENC	2	A24R208HCR	HOFFMAN NEMA-3R 24X20X8 ENCLOSURE	
	2	A24P20	HOFFMAN 24X20 MOUNTING PLATE	
TR-1	2	X075CBA	VERIS MULTI-TAP 75VA TRANSFORMER	120/208/240/480
DIS	2	PLU-3	CONNECTRON DISCONNECT TERMINAL	
TZ	2	P6KE47CA	ALERTON FAIRCHILD TRANZORB	
R-1	4	RH1B-UL-AC24V	IDEC 1-POLE RELAY	
	4	SH1B-05-C	IDEC 1-POLE RELAY BASE	
R-2	2	RH2B-UL-AC24V	IDEC 2-POLE RELAY	
	2	SH2B-05-C	IDEC 2-POLE RELAY BASE	
R-3	2	RH3B-UL-AC24V	IDEC 3-POLE RELAY	
	2	SH3B-05-C	IDEC 3-POLE RELAY BASE	
	4	BNL5	IDEC DIN RAIL END STOP	
	16	SFA-101	IDEC HOLD DOWN CLIP TOP LATCH	
MR201	6	MR-201/T	ALPS MULTI-VOLTAGE RELAY	
DPT-D	2	PXPLX02S	VERIS DIFFERENTIAL PRESSURE TRANSDUCER	0-10" WC RANGE
DPT-B	2	PXPLX01S	VERIS DIFFERENTIAL PRESSURE TRANSDUCER	0-1" WC RANGE
NFT3	10	NFT3	CONNECTRON 3-POSITION TERMINAL	
FIELD DEVICES				
V645	6	V645	VERIS SPDT MINI COMMAND RELAY	
OSA	1	TS-3200-DD-10-AA	ALERTON OSA TEMPERATURE SENSOR	
H600	2	H600	VERIS CURRENT SWITCH	

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VAV HVAC UNIT WIRING DIAGRAM



TYP OF 8 (AC-1 THRU AC-8)

TAG	QTY	PART NUMBER	FIELD DEVICES DESCRIPTION	COMMENTS
TS-2	24	TS-2012-FB-10-AA	ALERTON 12" DUCT TEMPERATURE SENSOR	
TS-5	8	TS-5006-XD-10-AA	ALERTON 6" DUCT AVERAGE TEMPERATURE SENSOR	
DPT-F	8	PXDLD2S	VERIS DIFFERENTIAL PRESSURE TRANSDUCER	0-10" WC RANGE
DA-AM	24	AMB24-SR	BELIMO DAMPER ACTUATOR	MODULATING, 180 IN-LB
H600	16	H600	VERIS CURRENT SWITCH	
V645	16	V645	VERIS SPDT MINI COMMAND RELAY	
CHW-V	8	SEE VALVE SCHEDULE		
HW-V	8	SEE VALVE SCHEDULE		

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B-2-1

AC-CV UNIT EQUIPMENT DIAGRAM

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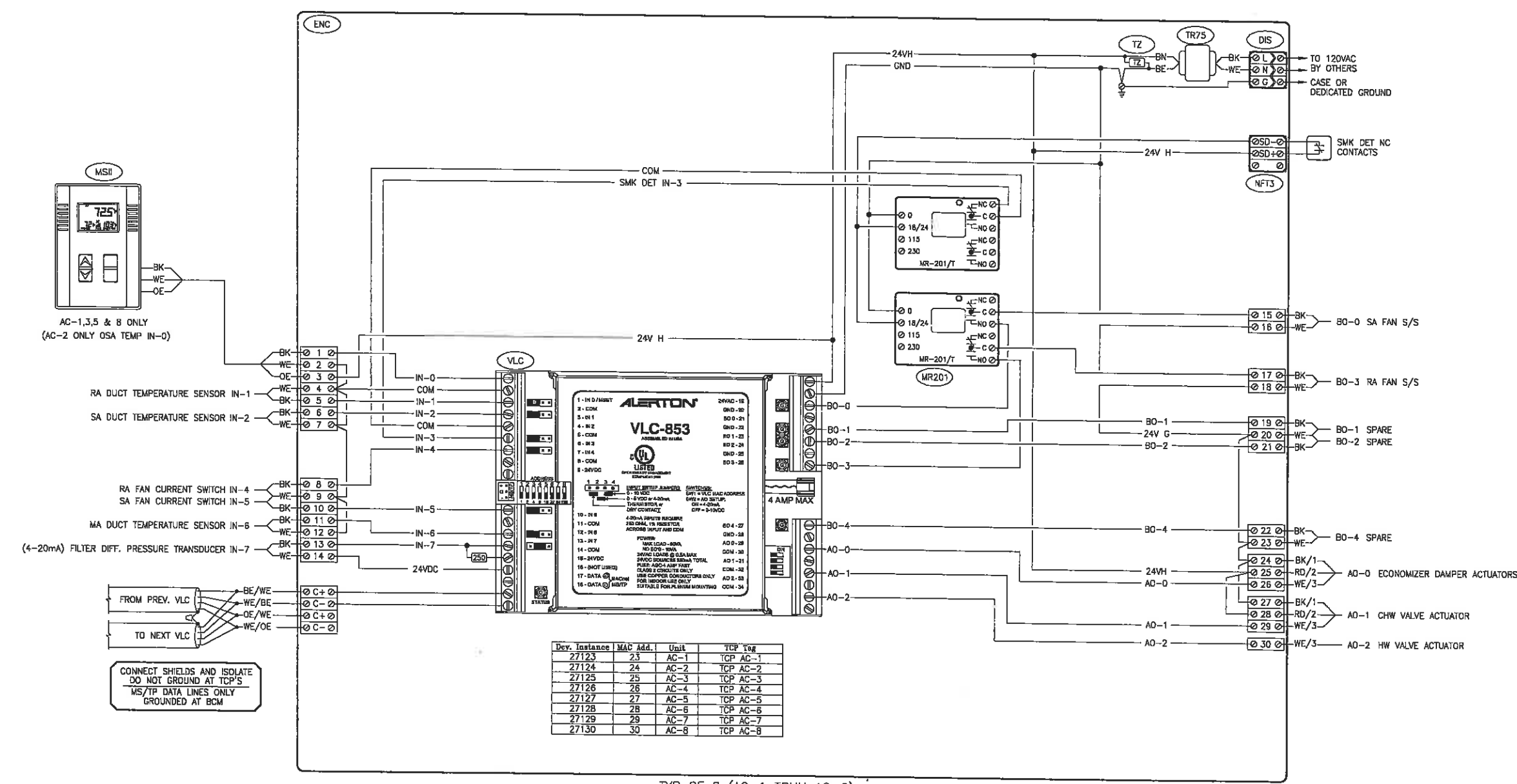
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TYPE OF 8 (AC-1 THRU AC-8)

PANEL DEVICES				
TAG	QTY	PART NUMBER	DESCRIPTION	COMMENTS
VLC	8	VLC-853	ALERTON VISUAL LOGIC CONTROLLER	
ENC	8	A20R166HCR	HOFFMAN NEMA-3R 20X16X6 ENCLOSURE	
	8	A20P16	HOFFMAN 2X16 MOUNTING PLATE	
TR-1	8	X075CBA	VERIS MULTI-TAP 75VA TRANSFORMER	120/208/240/480
DIS	8	PLU-3	CONNECTRON DISCONNECT TERMINAL	
TZ	8	P6KE47CA	ALERTON FAIRCHILD TRANZORB	
	32	SFA-101	IDEC HOLD DOWN CLIP TOP LATCH	
MR201	16	MR-201/T	ALPS MULTI-VOLTAGE RELAY	
NFT3	8	NFT3	CONNECTRON 3-POSITION TERMINAL	
FIELD DEVICES				
MSII	8	MS-2000	ALERTON MICROSET II ROOM CONTROLLER	

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AC-CV UNIT WIRING DIAGRAM

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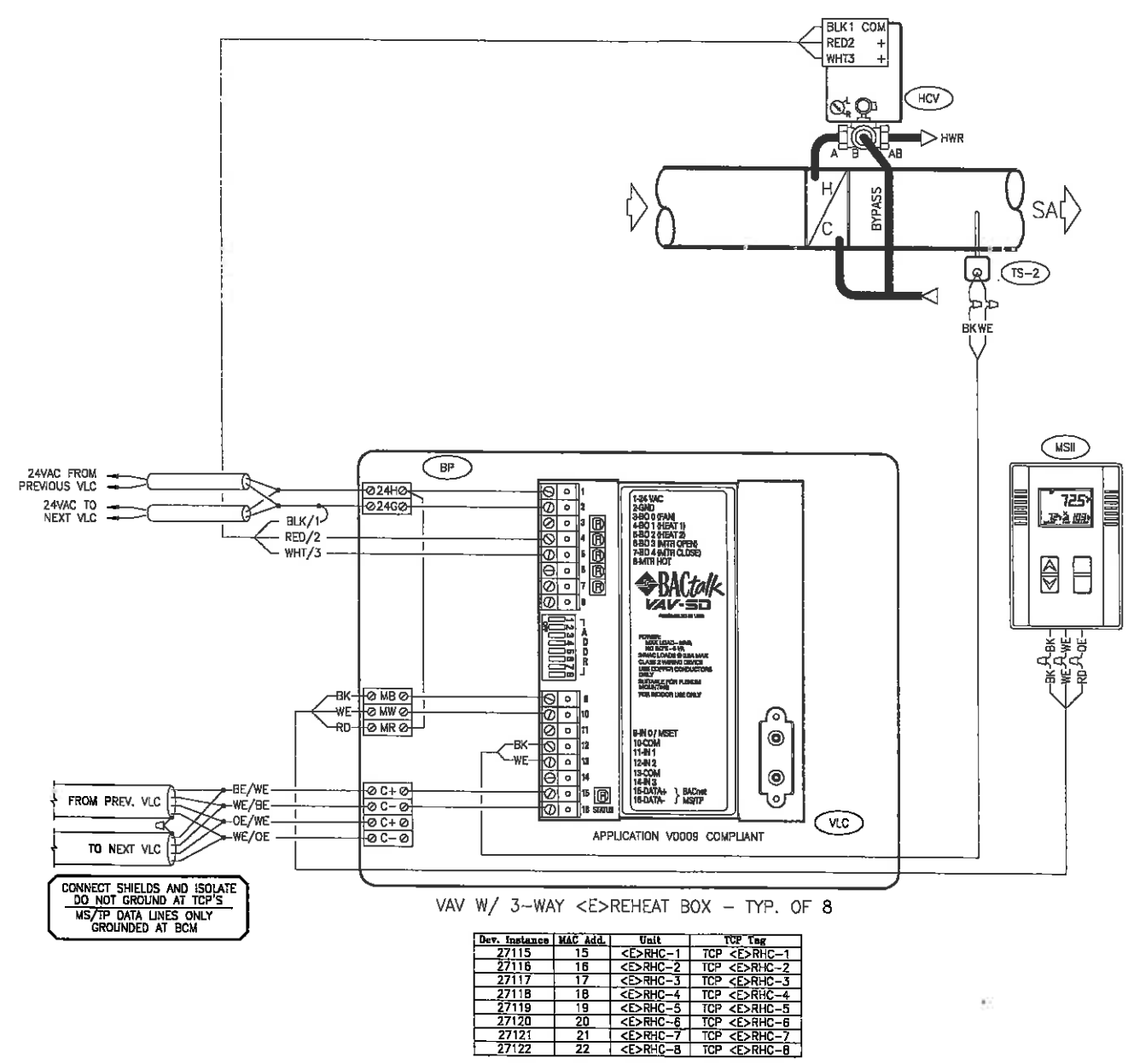
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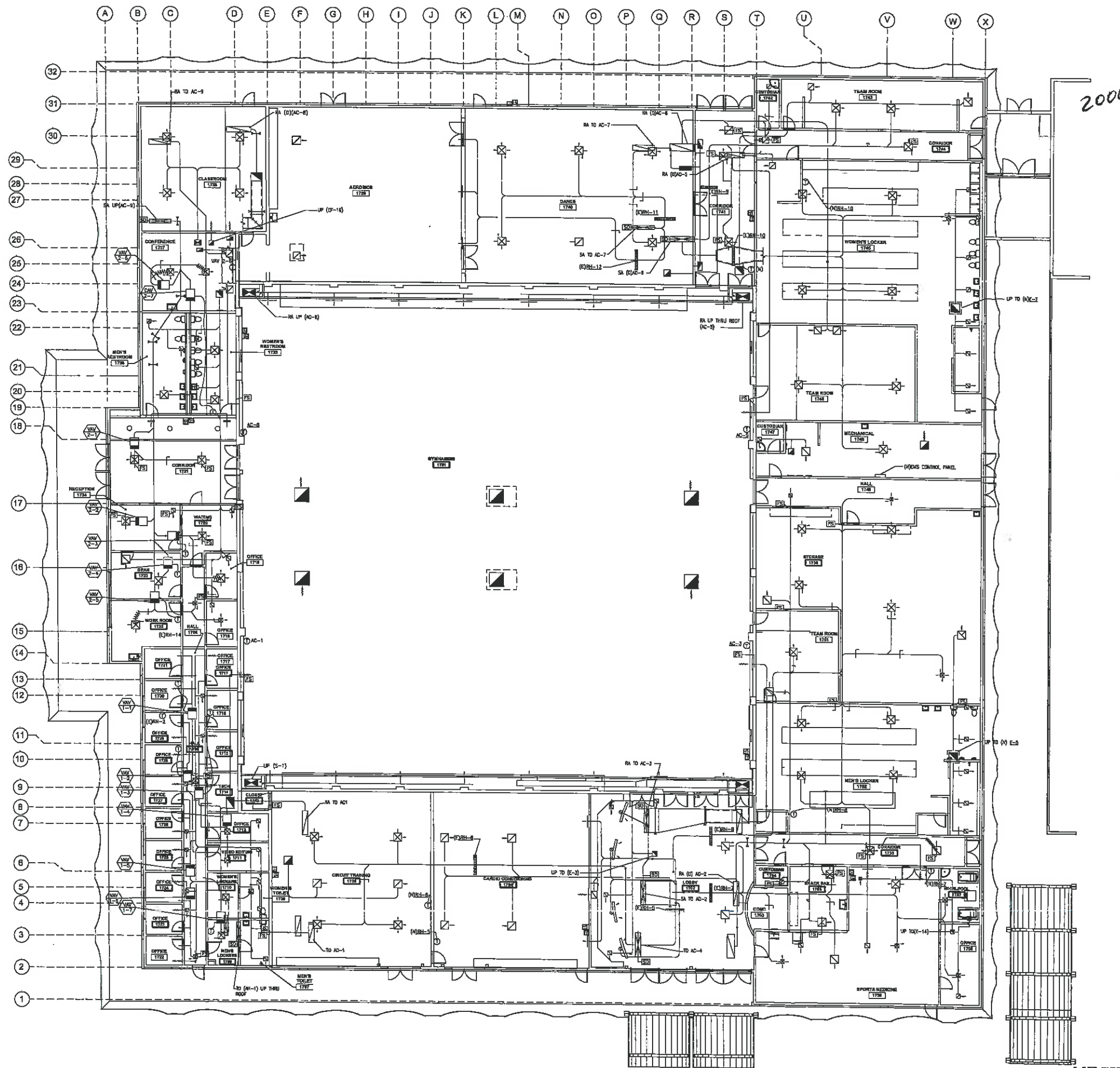
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JOB NUMBER P-4803
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PANEL DEVICES				
TAG	QTY	PART NUMBER	DESCRIPTION	COMMENTS
VLC	8	VAV-SD	ALERTON VISUAL LOGIC CONTROLLER	
BP	8	SYSERCO'S PLATE	SYSERCO' CUSTOM BACK PLATE	
FIELD DEVICES				
MSII	8	MS-2000	ALERTON MICROSET II ROOM CONTROLLER	
TS-2	8	TS-2004-FB-10-AA	ALERTON 4" DUCT TEMPERATURE SENSOR	
HCV	8	SEE VALVE SCHEDULE		



<E> REHEAT BOX UNIT CONTROL DIAGRAM



NOTES:

1. UNITS VAV 1-4, VAV 1-5, VAV 1-6, VAV 2-1, VAV 2-2, <E>RH-9, <E>RH-12 & <E>RH-11 T-STAT LOCATIONS PENDING P-4803-RF1-2 RESPONSE.

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MECHANICAL FLOOR PLAN - BUILDING 1700A



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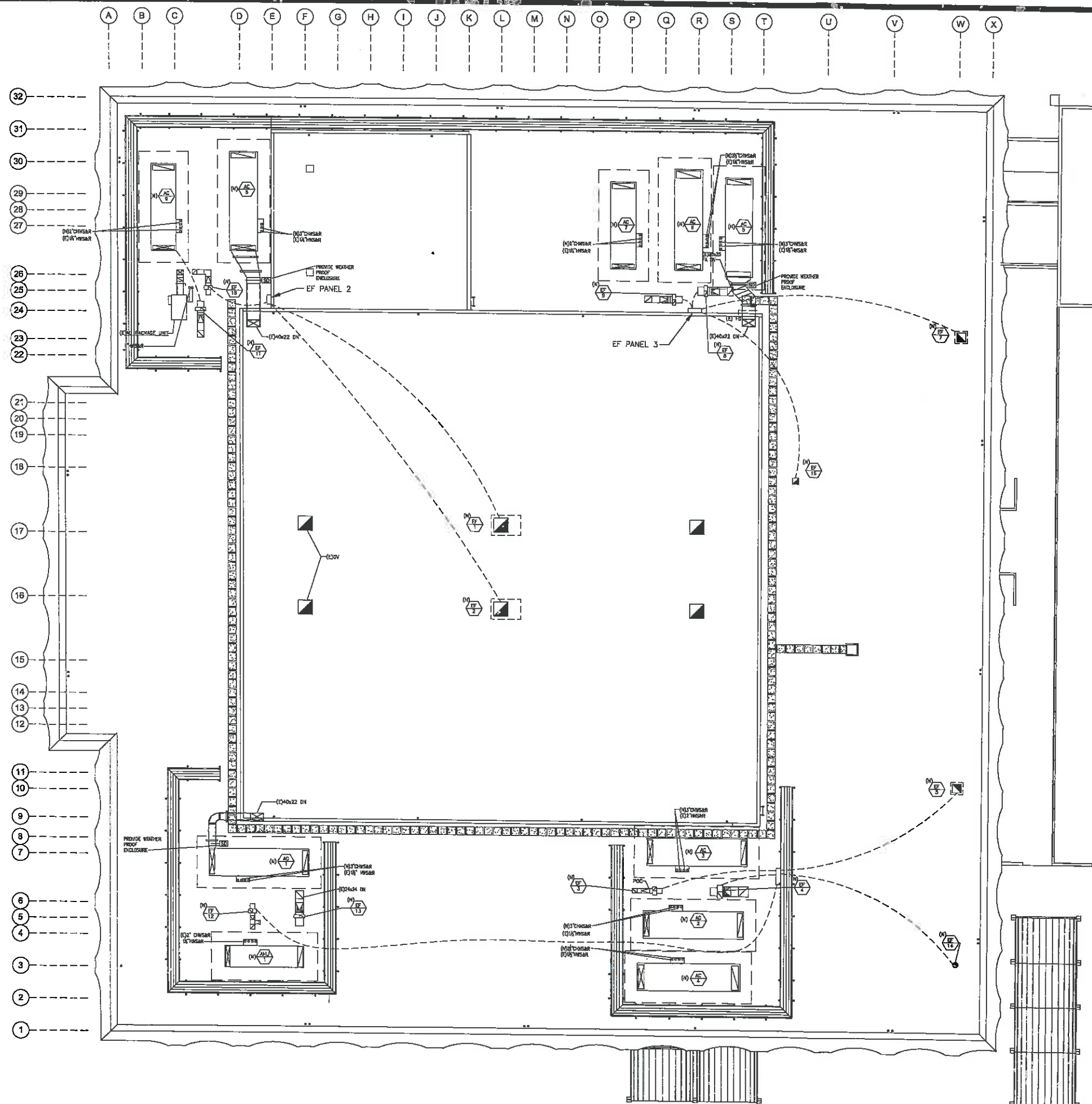
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FILE	P-4803.DWG
JOB NUMBER	P-4803
SHEET I.D.	CC 2.01



NOTES:

1. FIELD VERIFY EF PANEL LOCATIONS & EF CONTROL.

MECHANICAL ROOF PLAN - BUILDING 1700A

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FILE	P-4803.DWG
JOB NUMBER	P-4803
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SOLANO COMMUNITY COLLEGE

BUILDING 1700B MODERNIZATION

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ENERGY MANAGEMENT SYSTEM DIAGRAMS



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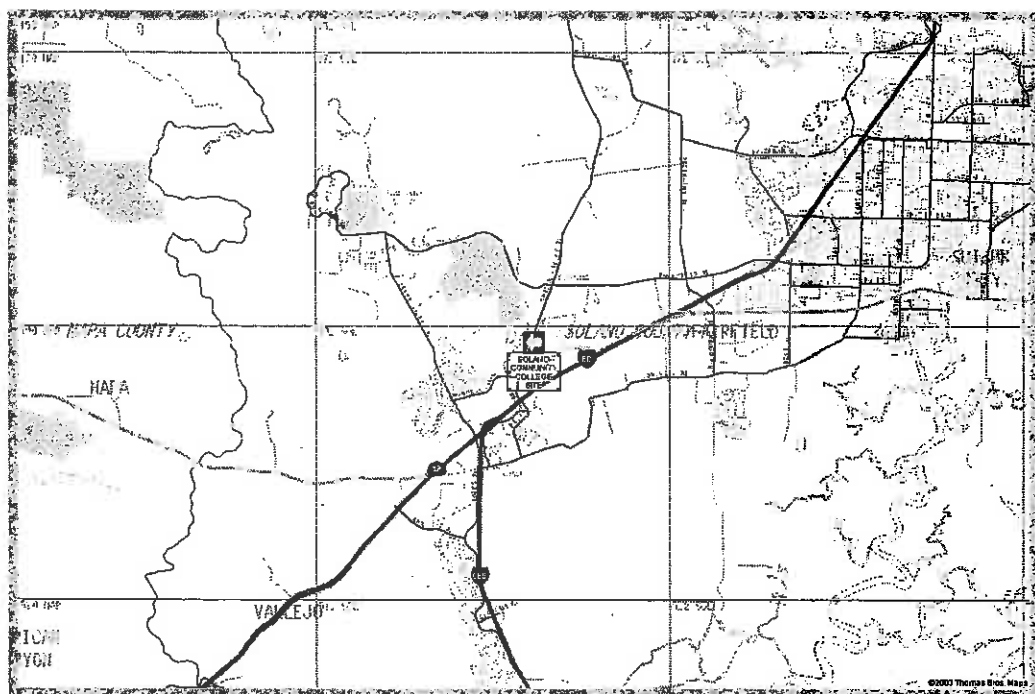
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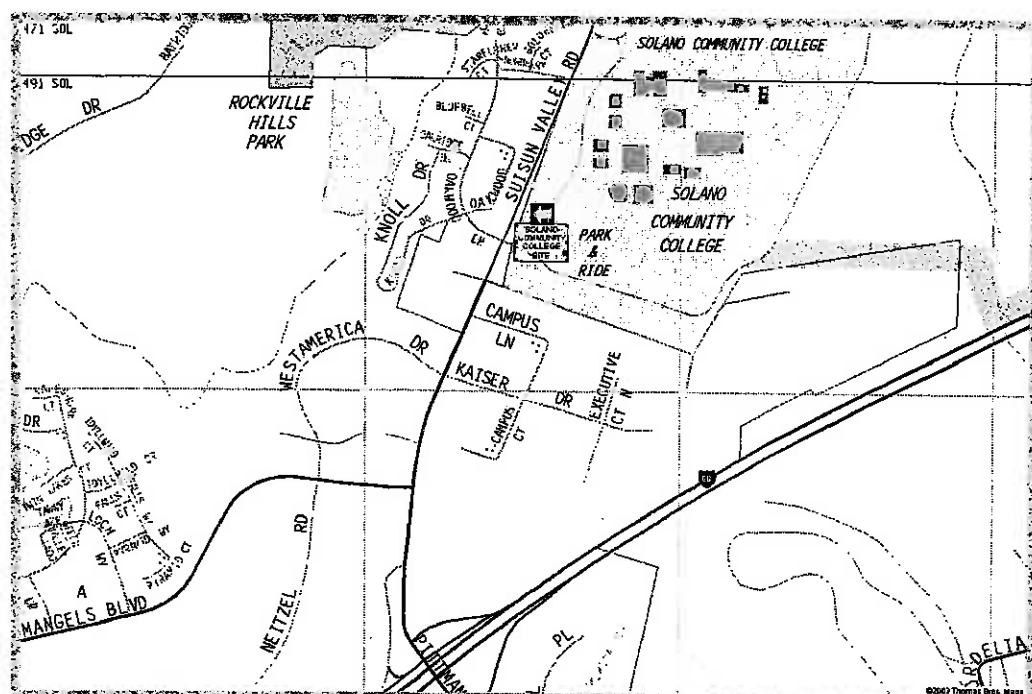
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AREA MAP



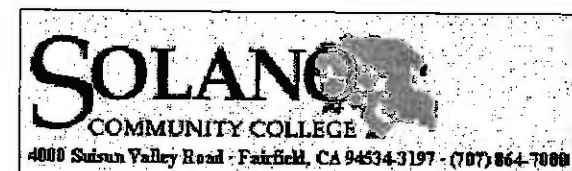
SITE LOCATION

VICINITY MAP



DRAWING INDEX

PAGE#	DESCRIPTION
CC 0.010	TITLE SHEET
CC 0.02	GLOBAL DEVICE ADDRESS CHART
CC 0.03	<E> BTI-100 #220 GLOBAL CONTROLLER WIRING DIAGRAM
CC 0.040	BTI-100 #220 ADDRESS CHART
CC 0.050	SEQUENCE OF OPERATIONS
CC 0.07	VALVE SCHEDULE
CC 1.01	TYPICAL FAN COIL UNIT CONTROL DIAGRAM
CC 2.01	SOLANO COMMUNITY COLLEGE SITE PLAN



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FILE P-4799.DWG

JOB NUMBER

P-4799

SHEET I.D.

CC 0.010

SOLANO COMMUNITY COLLEGE BACnet GLOBAL DEVICE ADDRESS SCHEDULE

DEVICE ID	DEVICE TYPE	DESCRIPTION	USER	LOCATION	JOB
0-99	Laptop Computers	RESERVED			
10	Workstation	BACtalk Front End			
50	Workstation	Wayne's laptop			
51	Workstation	Wayne's laptop 2			
52	Workstation	BACtalk front end			
53	Workstation	BACtalk front end		Chiller Room	
54	Workstation	BACtalk front end			
100-199	Workstations	RESERVED			
112	Workstation			Engineer's Office, Engineering Building	P-2820
200-250	LSI'S	RESERVED			
201	BTI Controller	Global Controller		Building 100 - Library	
202	BACtalk Router	Global Controller		Building 200	P-2820
203	BACtalk Router	Global Controller		Building 300	P-3195
205	BACtalk Router	Global Controller		Building 500	P-3195
206	BACtalk Router	Global Controller		Building 800	P-3195
207	BACtalk Router	Global Controller		SCC Building 700 - 4000 Suisun Valley Rd. Fairfield, CA	P-3195
208	BACtalk Router	Global Controller		SCC Building 800 - 4000 Suisun Valley Rd. Fairfield, CA	P-4482
209	BACtalk Router	Global Controller		Building 900	P-4482
210	BACtalk Router	Global Controller		Building 1000	P-3195
211	BACtalk Router	Global Controller		Building 1100	
212	BACtalk Router	Global Controller		Building 1200	
213	BACtalk Router	Global Controller		Building 1300	
214	BTI Controller	Global Controller		Building 1400	
215	BACtalk Router	Global Controller		Building 1500	P-3883
216	BACtalk Router	Global Controller		Building 1600	
218	BACtalk Router	Global Controller		Building 1800-A, Mechanical Room 1812	P-3195
219	BACtalk Router	Global Controller		Building 1900 - Maintenance Building	P-3195
220	BTI Controller	Global Controller		Central Plant Building 2000 & Building 1700	P-3424
221	Modbus Port	Modbus Device			P-3080
222	BCM Module	Global Controller		Building 1800-B, Mechanical Room 1850	
223	BCM Module	Global Controller		Vallejo Education Center - 545 Columbus Parkway Vallejo, CA 94591	P-4224
224	BCM-ETH	Global Controller		Student Services Building 400 - 4000 Suisun Valley Rd. Fairfield, CA	P-4483
225	BCM-MS/TP	Global Controller		Student Services Building 400 - 4000 Suisun Valley Rd. Fairfield, CA	P-4488
226	BCM-ETH	Global Controller		SCC Annex Building - 4000 Suisun Valley Rd. Fairfield, CA	P-4488 P-4492
1000-27000	Unitary Controllers	RESERVED			
1001-1099	VLC'S	Unitary Controllers		Building 100	
2001-2099	VLC'S	Unitary Controllers		Building 200	P-2820
3001-3099	VLC'S	Unitary Controllers		Building 300	P-3195
5001-5099	VLC'S	Unitary Controllers		Building 500	P-3195
7001-7999	VLC'S	Unitary Controllers		SCC Building 700 - 4000 Suisun Valley Rd. Fairfield, CA	P-3195
8001-8999	VLC'S	Unitary Controllers		SCC Building 800 - 4000 Suisun Valley Rd. Fairfield, CA	P-4482
9001-9099	VLC'S	Unitary Controllers		Building 900	P-4492
10001-10099	VLC'S	Unitary Controllers		Building 1000	P-3195
13001-13099	VLC'S	Unitary Controllers		Building 1300	
14001-14099	VLC'S	Unitary Controllers		Building 1400	
15001-15099	VLC'S	Unitary Controllers		Building 1500	P-3883
16001-16099	VLC'S	Unitary Controllers		Building 1600	
17010	York BACDrop	York Chiller Interface		Central Plant Building 2000	P-3195
18001-18099	VLC'S	Unitary Controllers		Building 1800	
19001-19099	VLC'S	Unitary Controllers		Building 1900	P-3195
20001-20099	VLC'S	Unitary Controllers		Central Plant & Building 1700	P-3424
22001-22099	VLC'S	Unitary Controllers		Building 1800-B	P-3080
23000-23999	VLC'S	Unitary Controllers		Vallejo Education Center - 545 Columbus Parkway Vallejo, CA 94591	P-4224
24000-24999	VLC'S	Unitary Controllers		Student Services Building 400 - 4000 Suisun Valley Rd. Fairfield, CA	
25000-25999	VLC'S	Unitary Controllers		Student Services Building 400 - 4000 Suisun Valley Rd. Fairfield, CA	P-4488
26000-26999	VLC'S	Unitary Controllers		SCC Annex Building - 4000 Suisun Valley Rd. Fairfield, CA	P-4488 P-4492

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FILE P-4799.DWG
JOB NUMBER P-4799
SHEET I.D. CC 0.02

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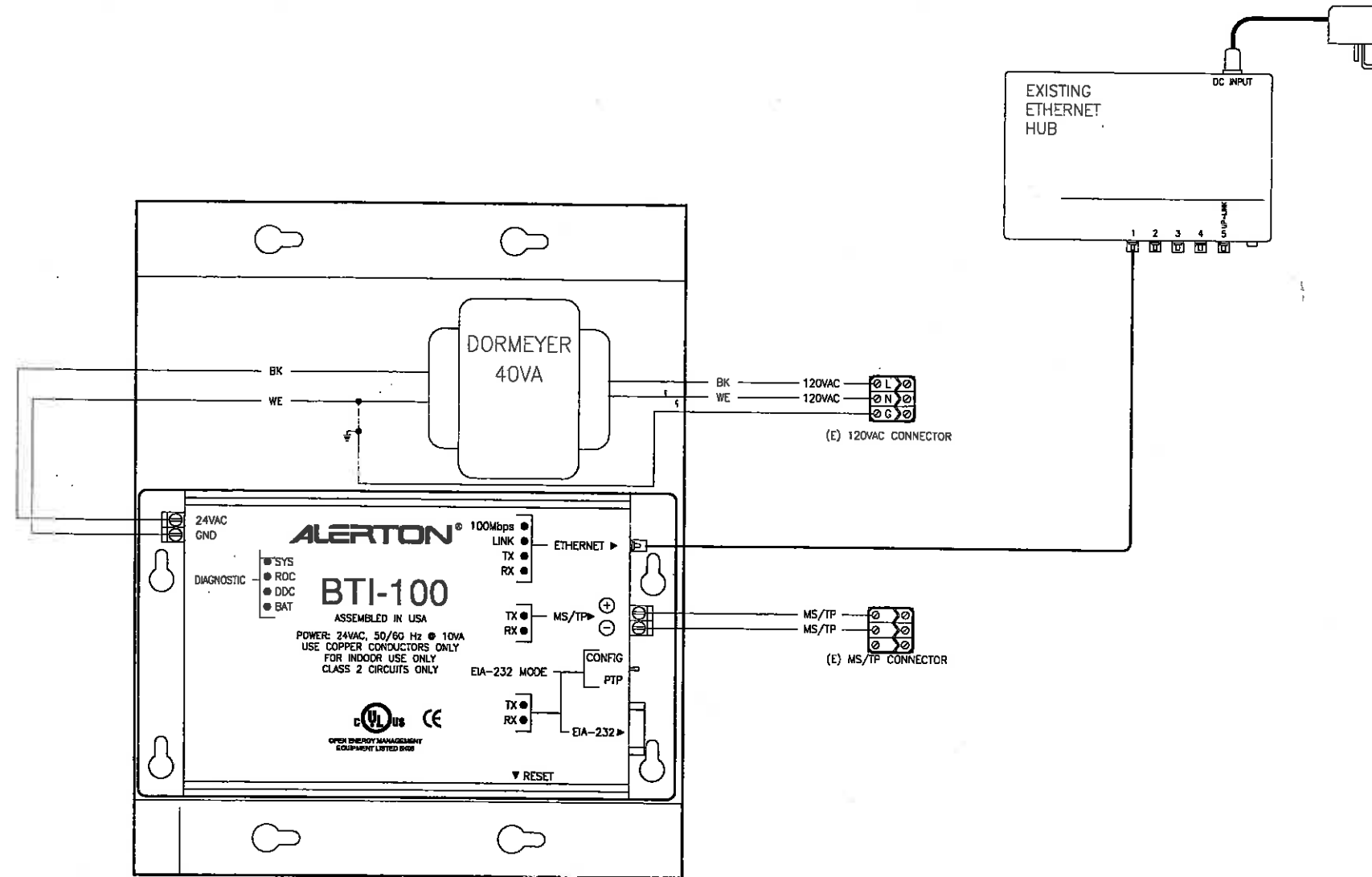
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EXISTING

<E> BTI-100 #220 GLOBAL CONTROLLER WIRING DIAGRAM

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BACtalk

FILE	P-4799.DWG
JOB NUMBER	P-4799
SHEET I.D.	CC 0.03

Fan Coil Units:

During periods of occupancy, as determined by scheduling or occupant override, the AC unit VLC controller shall enable the fan for continuous operation. When the supply fan is commanded "on" and status is not seen by the current switch contact closer, then an alarm shall be generated and the unit shall be commanded "off".

On a call for cooling and the OSA temperature is less then 68°F (adjustable), the EMS shall modulate the economizer to maintain a SA setpoint as reset by zone demand. On an additional call for cooling the economizer shall adjust to the minimum OSA position and the cooling valve shall modulate open to maintain supply air setpoint.

On a call for heating the economizer shall position to minimum OSA and the hot water valve shall modulate to maintain zone temperature setpoint. A manual reset low limit stat shall be interlocked to shut-down fan operation and send an alarm to the workstation whenever the coil discharge temperature falls below 35°F (adjustable).

A supply air duct smoke detector shall shut down the unit upon detection of products of combustion.



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 CC 0.050

FAN COIL VALVE SCHEDULE										
TAG	LOCATION	SERVES:	GPM	COIL CV	VALVE CV	Drop (PSI)	BELIMO PART NUMBER	VALVE SIZE	TYPE	DESCRIPTION
FC-1 CC	BLDG. 1700B	ADAPTED PE 1700B-1	24	10.7	19.0	1.6	B330+ARB24-3*NO+FC-1 CC	1-1/4"	3-WAY	CHARACTERIZED BALL VALVE
FC-2 CC	BLDG. 1700B	WEIGHT ROOM 1700B-1	25	11.2	19.0	1.7	B330+ARB24-3*NO+FC-2 CC	1-1/4"	3-WAY	CHARACTERIZED BALL VALVE
FC-3 CC	BLDG. 1700B	STUDIO 1700B-6	15	6.7	10.0	2.3	B323+LRB24-3*NO+FC-3 CC	1"	3-WAY	CHARACTERIZED BALL VALVE
FC-1 HC	BLDG. 1700B	ADAPTED PE 1700B-1	10	4.5	7.4	1.8	B318+LRB24-3*NO+FC-1 HC	3/4"	3-WAY	CHARACTERIZED BALL VALVE
FC-2 HC	BLDG. 1700B	WEIGHT ROOM 1700B-1	10	4.5	7.4	1.8	B318+LRB24-3*NO+FC-2 HC	3/4"	3-WAY	CHARACTERIZED BALL VALVE
FC-3 HC	BLDG. 1700B	STUDIO 1700B-6	8	3.8	4.7	2.9	B313+LRB24-3*NO+FC-3 HC	1/2"	3-WAY	CHARACTERIZED BALL VALVE



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510 498-1171

North Bay Office:
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707 588-7400

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SYSERCO ENGINEER
AVK

ENC. CHK SALES CHK

DATE
12/10/2007

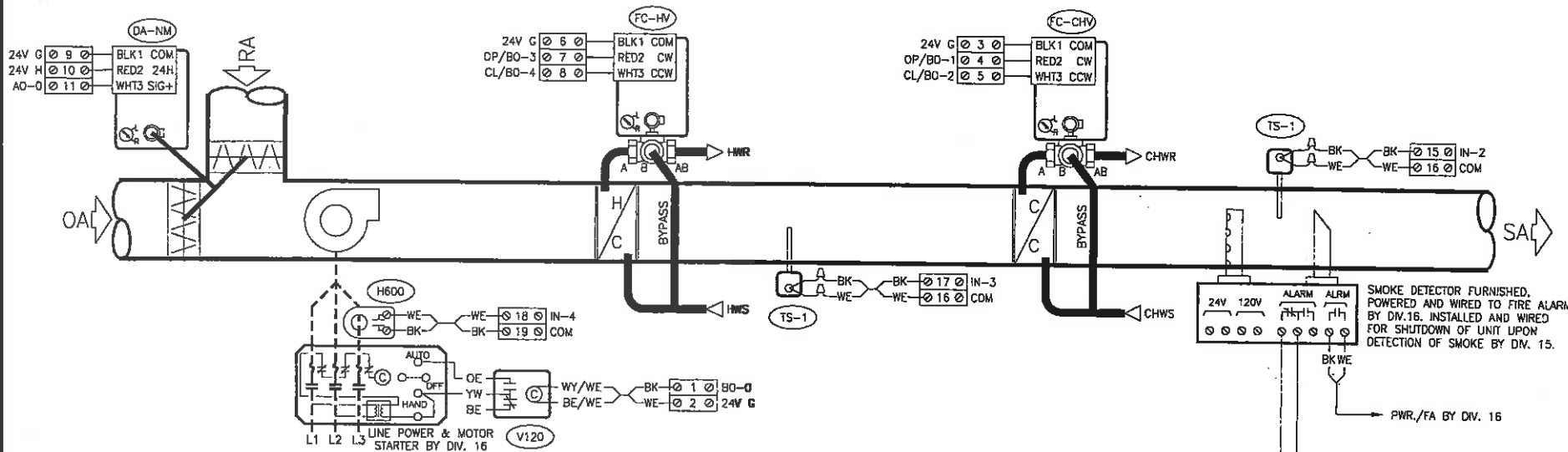
ENGINEER
TURLEY & ASSOCIATES
1914 S Street
Sacramento, CA 95814
(916) 325-1065
(916) 325-1075 FAX

CONTRACTOR
ALLEN SIMMONS
9320 West Cordelia Road
Fairfield, CA 94534
(707) 864-0392
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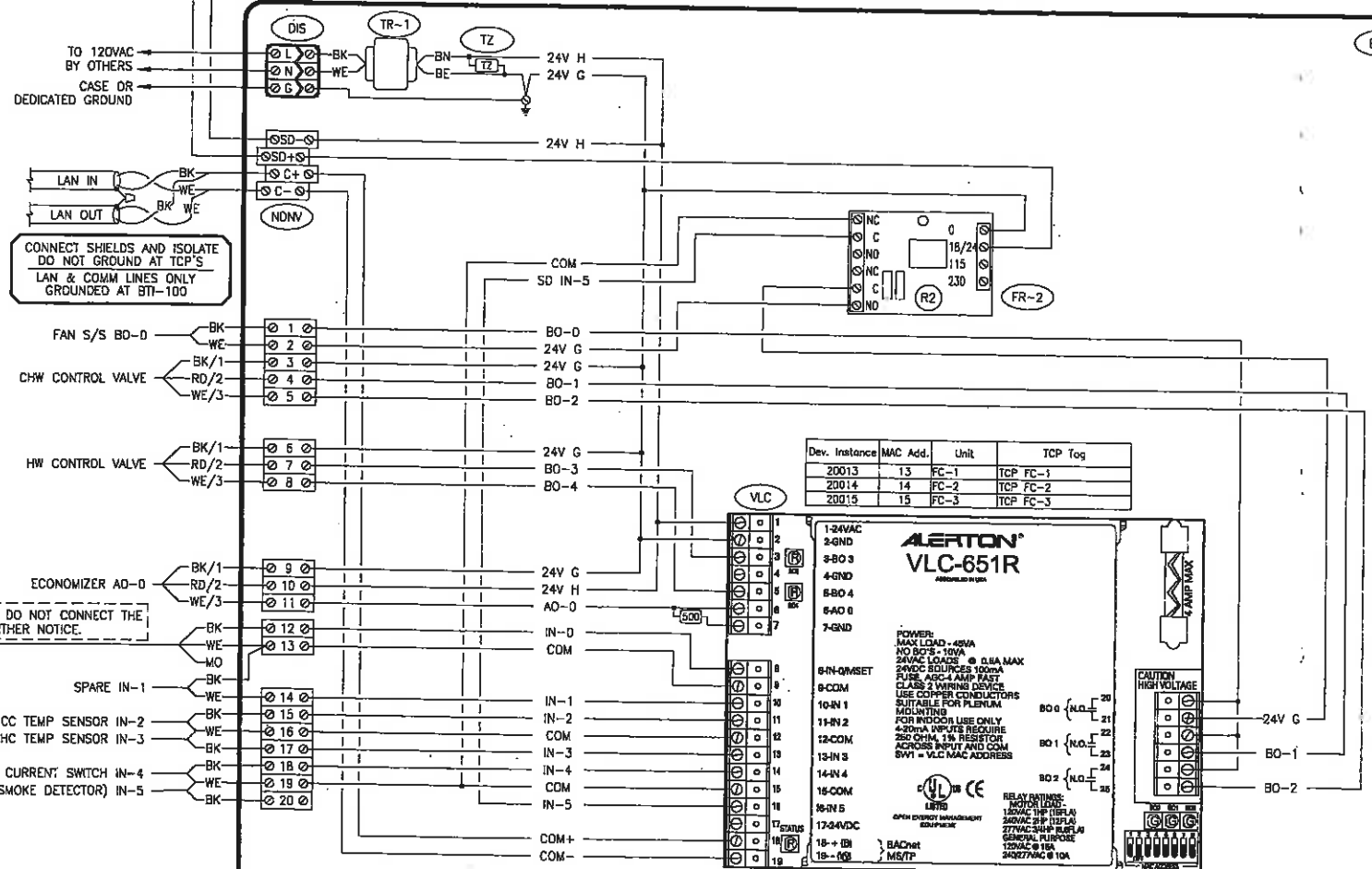
△	DATE	DESCRIPTION	BY
	12/12/07	SUBMITTALS	AWK

PROJECT
SCC - BUILDING 1700B
4000 SUISUN VALLEY ROAD FAIRFIELD, CA 94534
ALERTON[®] AUTHORIZED DEALER
BACTalk

FILE P-4799.DWG
JOB NUMBER P-4799
SHEET I.D. CC 0.07



PANEL DEVICES			
TAG	QTY	PART NUMBER	DESCRIPTION
VLC	3	VLC-651R	ALERTON VISUAL LOGIC CONTROLLER
ENC	3	A12R124	HOFFMAN NEMA-3R 12X12X4 ENCLOSURE
TR-1	3	X075CBA	VERIS MULTI-TAP 75VA TRANSFORMER
DIS	3	PLU-3	CONNECTRON DISCONNECT TERMINAL
NDNV	3	NDNV-4	CONNECTRON 4-POSITION TERMINAL
TZ	3	P6KE47CA	ALERTON FAIRCHILD TRANSORB
FR-2	3	MR-201/T	KELE CSFM CONTROL RELAY MR SERIES
FIELD DEVICES			
TS-2	3	MS-2000	ALERTON MICROSET II ROOM CONTROLLER
TS-1	6	TS-2006-FB-10-AA	ALERTON 6" DUCT TEMPERATURE SENSOR
H600	3	H-600	VERIS CURRENT SWITCH
V120	3	V-120	VERIS SPOT ENCLOSED RELAY
DA-NM	3	NMB24-SR	BELIMO DAMPER ACTUATOR
FC-CHW	3	SEE VALVE SCHEDULE	
FC-HW	3	SEE VALVE SCHEDULE	



COMMENT DATE 11/5/2018 -
SEE FOLLOWING SHEET FOR
ASSUMED UPDATED CONTROL
DIAGRAM DATED 10/8/2008

TYP. OF 3 (FC-1 THRU FC-3 LOCATED IN BLDG. 1700B)

TYPICAL FAN COIL UNIT CONTROL DIAGRAM



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DATE
12/10/2007

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DATE	DESCRIPTION	BY
12/12/07	SUBMITALS	AWK

PROJECT
SCC - BUILDING 1700B

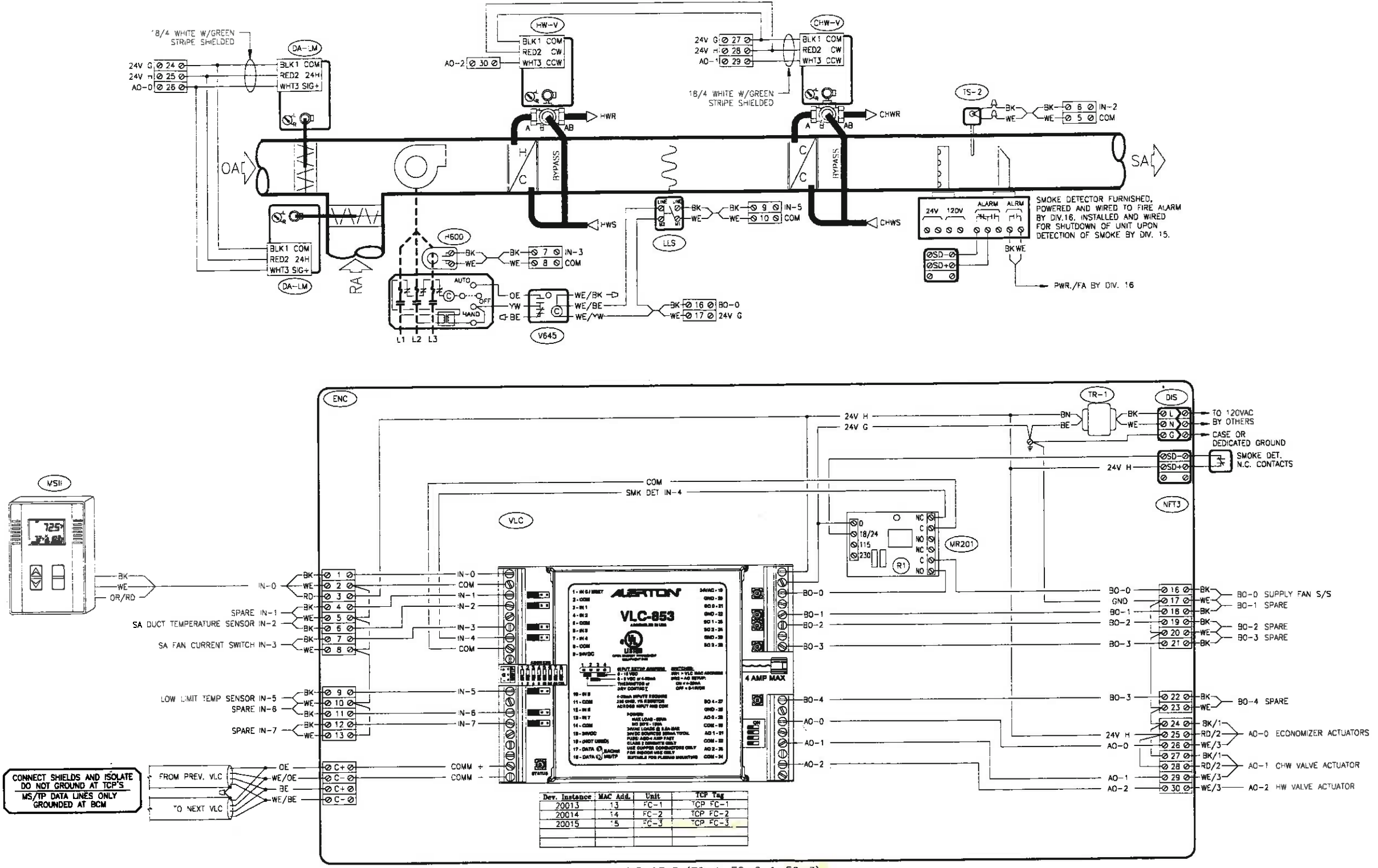
4000 SUISUN VALLEY ROAD FAIRFIELD, CA 94534

BACtalk

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FILE P-4799.DWG
JOB NUMBER P-4799
SHEET I.D.
CC 1.01

V:\Jobs\Engineering\Jobs\C9A015 - SCC Building 1700B Increment #10\Drawings\Sysco\C9A015_CC 1.01 Typical Fan Coil Unit Control Diagram.dwg, 10/10/2008 10:54:51 AM, btraw



TYP OF 3 (FC-1, FC-2 & FC-3)

PANEL DEVICES				
TAG	QTY	PART NUMBER	DESCRIPTION	COMMENTS
VLC	3	VLC-853	ALERTON VISUAL LOGIC CONTROLLER	
TR-1	3	X075CBA	VERIS MULTI-TAP 75VA TRANSFORMER	120/208/240/480
DIS	3	PLU-3	CONNECTRON DISCONNECT TERMINAL	
NFT3	3	NFT3	CONNECTRON 3-POSITION TERMINAL	
ENC	3	16124RTSC	9-LINE NEMA-3R 16X12X4 ENCLOSURE	
MR201	3	MR-201/T	ALPS MULTI-VOLTAGE CONTROL RELAY	
FIELD DEVICES				
VSII	3	MS-2000	ALERTON MICROSET ROOM CONTROLLER	
TS-2	3	TS-2006-FB-10-AA	ALERTON 6" DUCT TEMPERATURE SENSOR	
LLS	3	A70HA-1	KELE JOHNSON C. LOW TEMP LIMIT SENSOR	MANUAL RESET, 15"-55°F, 20' ELEM.
-600	3	-600	VERIS CURRENT SWITCH	
V645	3	V645	VERIS SPDT MINI COMMAND RELAY	
DA-LM	6	MB24-SR	BEL-MO DAMPER ACTUATOR	45 IN-LB TORQUE
-HW-V	3	SEE VALVE SCHEDULE		
-CHW-V	3	SEE VALVE SCHEDULE		

COMMENT DATE 11/5/2018 - ASSUMED TO BE UPDATED CONTROL DIAGRAM FOR PREVIOUS SHEET DATED 12/10/2007

TYP FAN COIL UNIT CONTROL DIAGRAM

Syserco

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ENG. CHK SALES CHK

DATE
Oct. 8, 2008

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ALTEN CONSTRUCTION
720 12th Street
Richmond, CA 94801
(510) 234-4200
(510) 234-4402 FAX

DATE	DESCRIPTION	BY
10/08/08	SUBMITAL ONLY	RK

PROJECT
SCC BUILDING 1700B INCREMENT #1
4000 SUISUN VALLEY RD. FAIRFIELD, CA 94534

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AUTHORIZED DEALER

FILE C9A015.DWG
JOB NUMBER
C9A015
SHEET I.D.
CC 1.01



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Fremont, CA 94538
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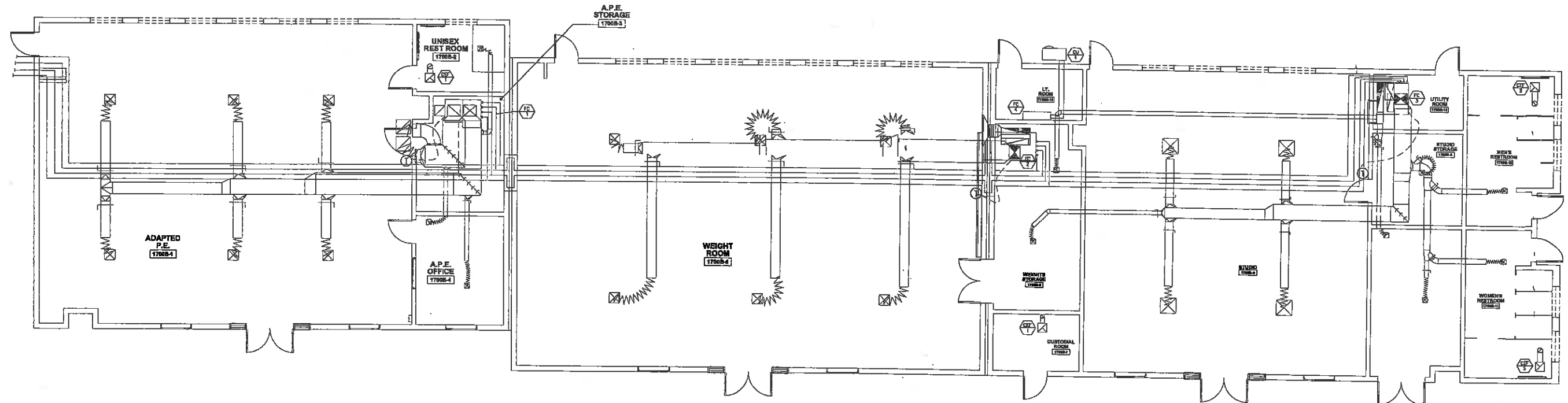
ENG. CHK SALES CHK

DATE
12/10/2007

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DATE	DESCRIPTION	BY
12/12/07	SUBMITALS	AR



PROJECT
SCC - BUILDING 1700B
 4000 SUISUN VALLEY ROAD FAIRFIELD, CA 94534
ALERTON®
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FILE	P-4799.DWG
JOB NUMBER	P-4799
SHEET I.D.	CC 2.01

H:\Engineering\Jobs\3195 - Solano Community College\3195A.dwg, 08/23/01 02:44:56 PM, Mmorgan1

MAC No.	Dev. ID No.	Dev. Type	Class	DESCRIPTION	SERVING	SIZE	VAV MAX CFM	MIN CFM	LOCATION	Ref. Dwg.
0	218	BTR	6	THIS BTR	BUILDING 1800				1800 MECH ROOM	CC 1.35
1	18001	853	3	PANEL 1800-A	AHU-1				1800 MECH ROOM	CC 1.35
2	18002	550	3	PANEL 1800-A	BUILDING 1800-B				1800 MECH ROOM	CC 1.35
3	18003									
4	18004									
5	18005									
6	18006									
7	18007									
8	18008									
9	18009									
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62	18062									
63	18063									

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LSI -Network Address Information

	Ethernet In	MS/TP Network No.	MS/TP Out
Device I	218	218	
EtherNet Netw	10	MS/TP MAC Address	0
E-Net MAC A	118	MS/TP Baud*	768

*Baud X 100 KPS

MAC No.	Dev. ID No.	Dev. Type	Class	DESCRIPTION	SERVING	SIZE	VAV MAX CFM	MIN CFM	INDUCTION PRI CFM	SEC CFM	LOCATION	Ref. Dwg.
64	18064											
65	18065											
66	18066											
67	18067											
68	18068											
69	18069											
70	18070											
71	18071											
72	18072											
73	18073											
74	18074											
75	18075											
76	18076											
77	18077											
78	18078											
79	18079											
80	18080											
81	18081											
82	18082											
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122	18122											
123	18123											
124	18124											
125	18125											
126	18126											
127	18127											

LSI No. 218 Location:

BUILDING 1800 MECH ROOM
SERVING BUILDING 1800

Page Address Key 18

P-3195_LSI_ADDR.XLS
8/23/01 16:54

"AS-BUILT"
AUGUST 2001
MEM

VLC ADDRESS CHART, BTR-218 - BUILDING 1800

ENGINEER

CONTRACTOR

SYNERCO ENGINEER
M. MORGAN

ENG. CHR SALES CHR

DATE
APRIL 2000

Sysenco Inc.
Direct Digital Controls
44244 Fremont Blvd., Fremont, CA 94538-6000
PH (510) 498-1171 FAX (510) 498-1161 CLF #65939

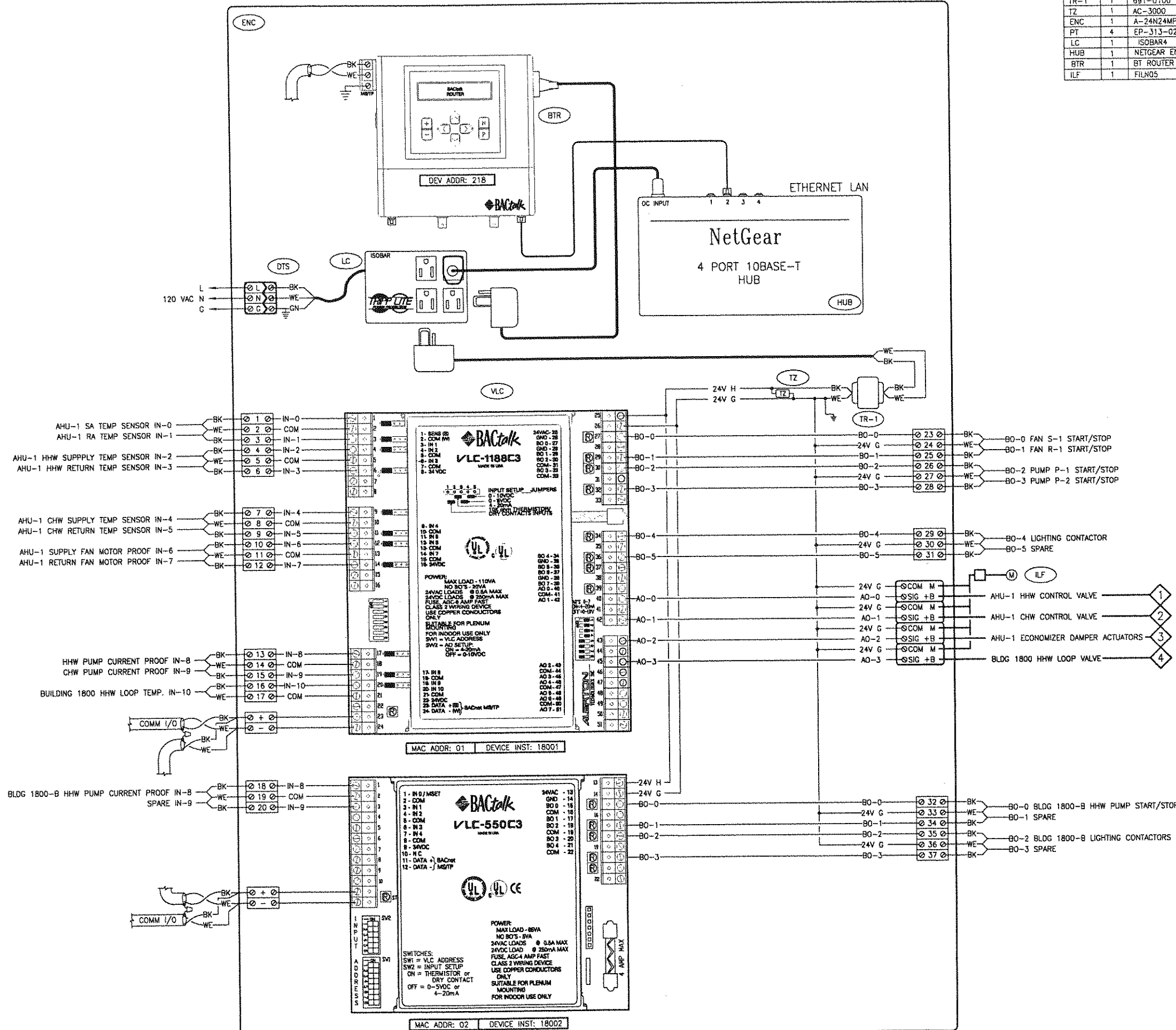
**SOLANO COMMUNITY COLLEGE
CONTROLS UPGRADE**
4000 SUISUN VALLEY ROAD
SUISUN, CALIFORNIA 94585-3197

#	DATE	REVISION
	8/00	ADDED BLDGS.

FILE P-3195A.DWG
LAYER 15
JOB NUMBER P-3195
SHEET I.D. CC 0.15

H:\Engineering\Jobs\3195 - Solano Community College\3195C.dwg, 08/27/01 10:08:32 AM, Mmorgan1

PANEL "1800-A"



PARTS LIST

TAG	QTY	PART NUMBER	DESCRIPTION	COMMENTS
VLC	1	VLC1188C3	ALERTON VLC CONTROLLER	
VLC	1	VLC550C3	ALERTON VLC CONTROLLER	
TR-1	1	691-U100	KELE 100VA TRANSFORMER	120/24 VAC
TZ	1	AG-3000	ALERTON TRANZORB	
ENC	1	A-24N24MP	HOFFMAN 24X24 PLATE	USE (E) 24X24 ENCLOSURE
PT	4	EP-313-020	MODUS CURRENT/PNEUMATIC TRANSDUCER	0-30 PSI OUT
LC	1	ISOBAR4	TRIPP-LITE SURGE SUPPRESSOR	
HUB	1	NETGEAR EN1041P	4 PORT 10BASE-T ETHERNET HUB	
BTR	1	BT ROUTER	ALERTON BACNET ROUTER	WITH ETHERNET
ILF	1	FILN05	KELE IN-LINE AIR FILTER	

NOTES:

1. INSTALL EQUIPMENT IN EXISTING ENCLOSURE.

"AS-BUILT"
AUGUST 2001
MEM

BUILDING 1800, PANEL 1800-A AHU-1 AND HHW LOOP WIRING DIAGRAM

ENGINEER
SYNERCO ENGINEER
M. MORGAN
ENG. CHK SALES CHK
DATE
APRIL 2000

Syserco Inc.
Direct Digital Controls
44244 Fremont Blvd., Fremont, CA 94538-6000
PH (510) 498-1171 FAX (510) 498-1161 C.F. 483939

PROJECT
SOLANO COMMUNITY COLLEGE
CONTROLS UPGRADE
4000 SUISUN VALLEY ROAD
SUISUN, CALIFORNIA 94585-3197

#	DATE	REVISION
1	8/23/01	AS-BUILT

FILE P-3195C.DWG
LAYER 11
JOB NUMBER P-3195
SHEET I.D. CC 1.36

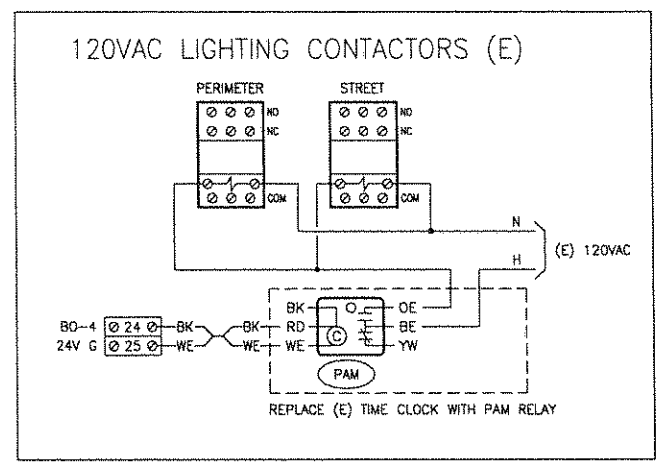
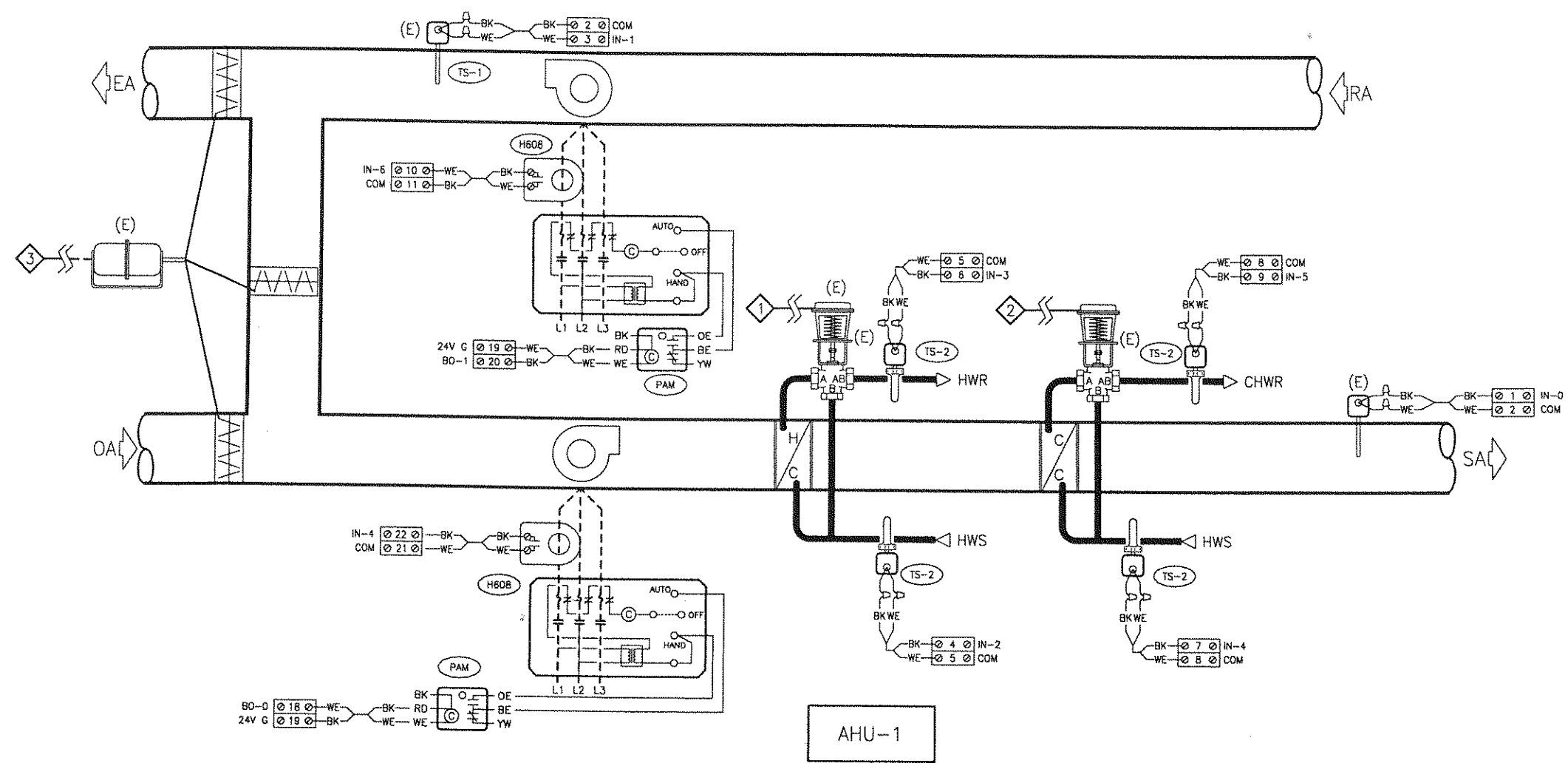
ENGINEER
 CONTRACTOR
 SYNERCO ENGINEER
 M. MORGAN
 ENG. CHK SALES CHK

DATE
 APRIL 2000

Syserco Inc.
 Direct Digital Controls
 44244 Fremont Blvd., Fremont, CA 94538-6000
 PH (510) 498-1171 FAX (510) 498-1161 CL# 483838

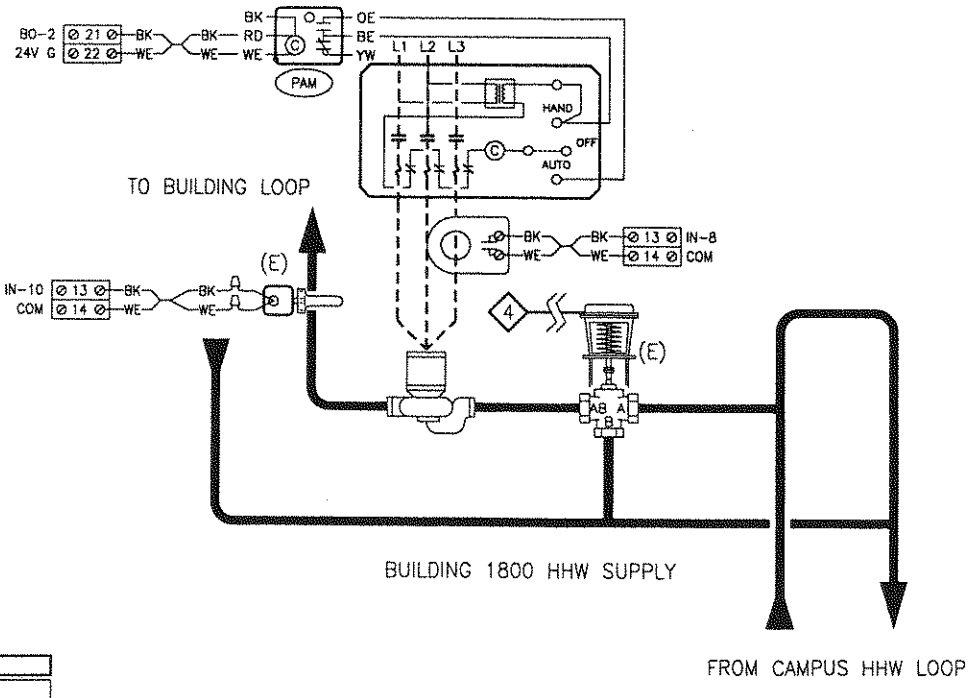
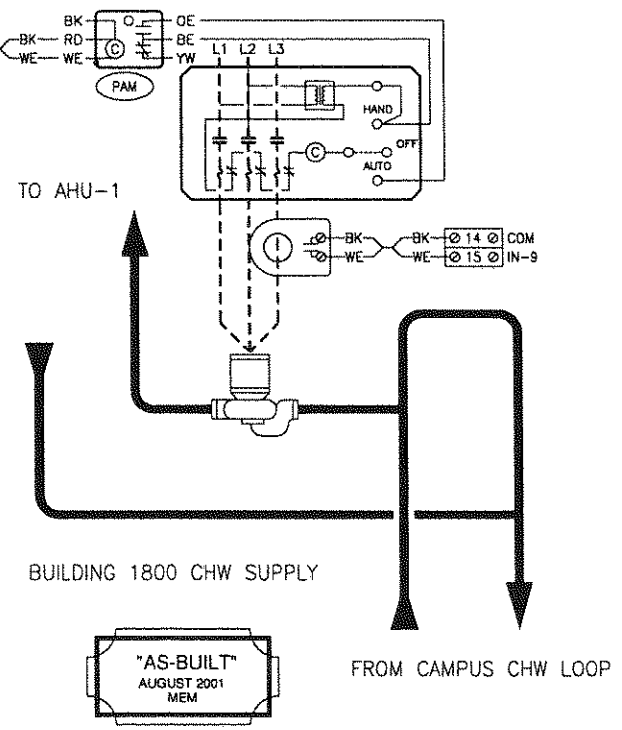
**SOLANO COMMUNITY COLLEGE
 CONTROLS UPGRADE**
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#	DATE	REVISION
1	8/23/01	AS-BUILT
FILE P-3195C.DWG		
LAYER 12		
JOB NUMBER P-3195		
SHEET I.D. CC 1.37		



**COMMENT DATE 11/5/2018 -
 SEE FOLLOWING SHEET FOR
 FUNCTIONAL WIRING
 DIAGRAM NOTES**

TAG	QTY	PART NUMBER	DESCRIPTION	COMMENTS
H900	2	H-900	VERIS GO/NOGO CURRENT RELAY	
H60B	2	H-60B	VERIS ADJUSTABLE CURRENT RELAY	
PAM	5	PAM-1	KELE PAM RELAY	PILOT DUTY
TS-1	2	TS-2010BT	ALERTON 10" DUCT SENSOR	
TS-2	5	TS-4000BT	ALERTON PENCIL SENSOR	



"AS-BUILT"
 AUGUST 2001
 MEM

BUILDING 1800 AHU-1 AND HHW LOOP CONTROL DIAGRAM

H:\Engineering\Jobs\P-3195 - Solano Community College\P-3195C.dwg, 08/27/01 10:08:52 AM, mmorgan*

1700 A?

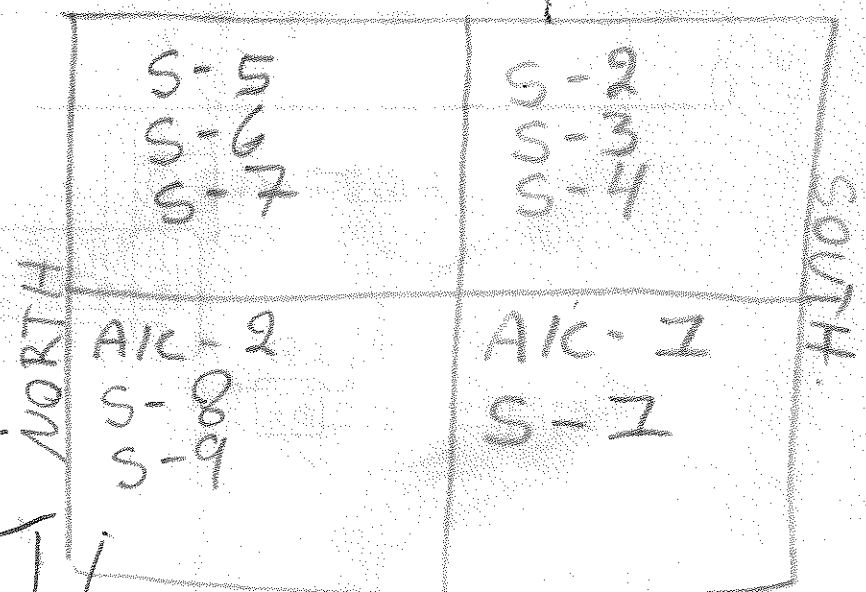
S-4 4-WIRE GREEN TRACE
 HHW - RETURN - IN - RED WIRE
 COM - WHITE
 HHW - SUPPLY - IN - BLACK WIRE
 COM - WHITE

S-3 4-WIRE PLANE WHITE
 HHW - RETURN - IN - RED WIRE
 COM - WHITE
 HHW - SUPPLY - IN - BLACK WIRE

S-2 4-WIRE GREEN TRACE
 HHW - RETURN - IN - GREEN WIRE
 COM - WHITE
~~HHW - SUPPLY - IN -~~
 4-WIRE GREEN TRACE
 HHW - SUPPLY - IN - GREEN WIRE
 COM - WHITE

10

S-8 4-WIRE BLUE TRACE
 HHW - SUPPLY - IN - BLACK WIRE
 COM - WHITE WIRE
 HHW - RETURN - IN - RED WIRE
 COM - WHITE WIRE



AIC-2 4-WIRE YELLOW TRACE
 HHW - SUPPLY - IN - COM - WHITE
 HHW - RETURN - IN - COM - WHITE

S-1 4-WIRE PURPLE TRACE
 HHW - SUPPLY - IN - BLACK WIRE
 COM - WHITE
 HHW - RETURN - IN - RED WIRE
 COM - WHITE

4-WIRE BLUE TRACE

S-9

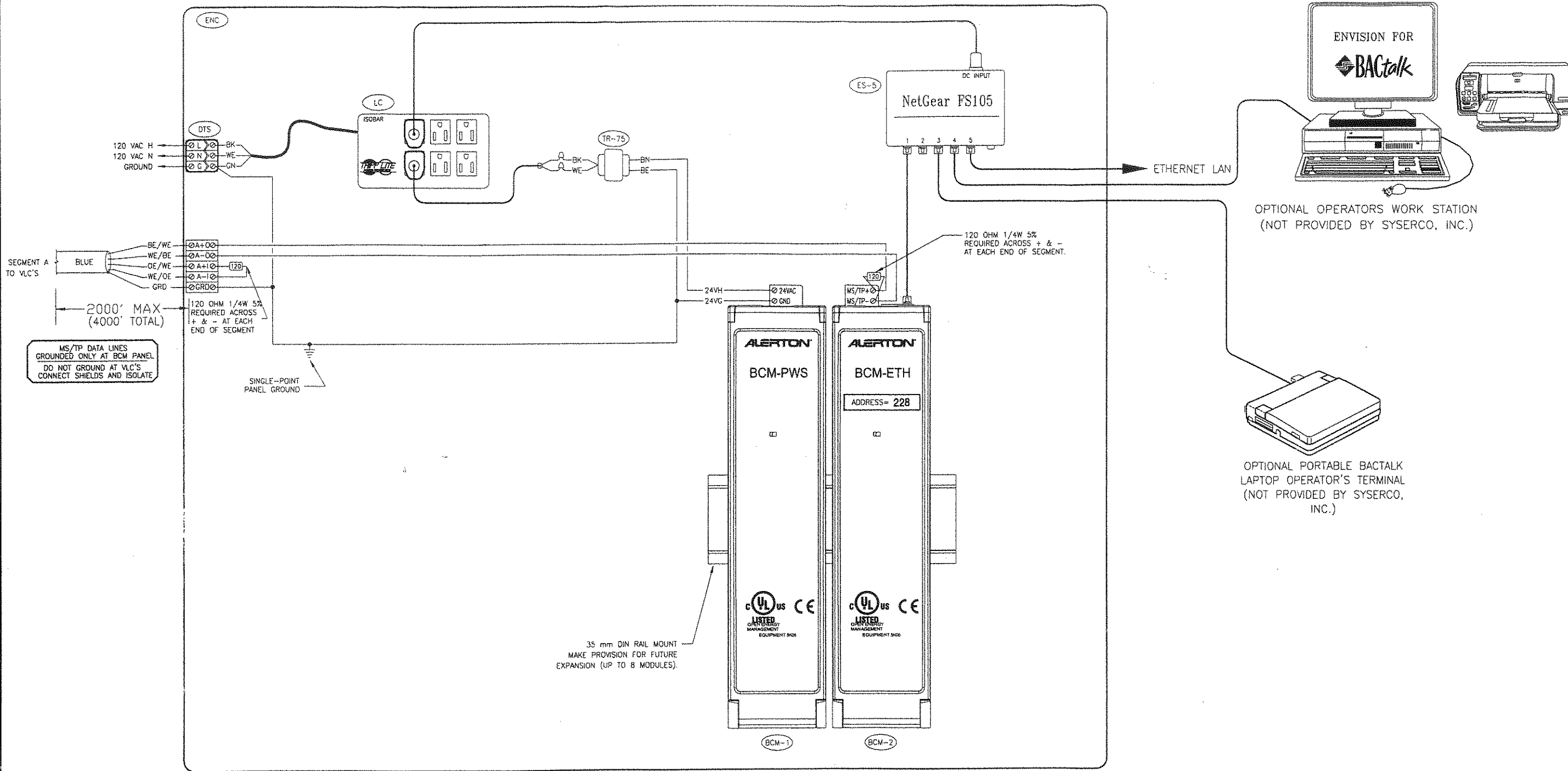
4-WIRE YELLOW TRACE

4-WIRE BLUE TRACE
 CHW - RETURN - IN - RED WIRE
 COM - WHITE
 CHW - SUPPLY - IN - BLACK WIRE
 COM - WHITE

4-WIRE PURPLE TRACE
 HHW - RETURN - IN - GREEN WIRE
 COM - WHITE WIRE FROM AIC-2
~~HHW - SUPPLY - IN -~~
 4-WIRE BLUE TRACE
 HHW - SUPPLY - IN - GREEN WIRE
 COM - WHITE

COMMENT DATE 11/5/2018 -
 FUNCTIONAL WIRING
 DIAGRAM NOTES FOR
 PREVIOUS SHEET

V:\Jobs\Engineering\Job_P120P-4806 - SCC Building 1800A Renovation\Drawings\Syserco\P-4806 - CC 0.030 BCM Global Controller Wiring Diagram.dwg, 1/16/2008 2:46:59 PM, jbravo



PANEL DEVICES				
TAG	QTY	PART NUMBER	DESCRIPTION	COMMENTS
ENC	1	A24N20ALP	HOFFMAN NEMA-1 24X20 ENCLOSURE	
	1	A24N20MP	HOFFMAN 24X20 MOUNTING PLATE	
	1	A-L12-B	HOFFMAN KEY LOCK KIT FOR TCP	
BCM-1	1	BCM-PWS	ALERTON Bactalk CONTROL MODULE	POWER SUPPLY
BCM-2	1	BCM-ETH	ALERTON Bactalk CONTROL MODULE	W/1 ETHERNET LAN, 1 MS/TP LAN
ES-5	1	FS105	NETGEAR 5-PORT ETHERNET SWITCH	
DTS	1	PLU-3	CONNECTRON DISCONNECT TERMINAL STRIP	
LC	1	ISOBAR6	TRIPPLITE POWER SURGE-SPIKE PROTECTOR	
TR-75	1	X075CBA	VERIS MULTI-TAP 75VA TRANSFORMER	120/208/240/480

BCM GLOBAL CONTROLLER WIRING DIAGRAM

Syserco
Integrated Building Systems

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SYSERCO ENGINEER
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ENG. CHK SALES CHK

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January 16, 2008

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Martinez, CA 94553
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(925) 228-3382 FAX

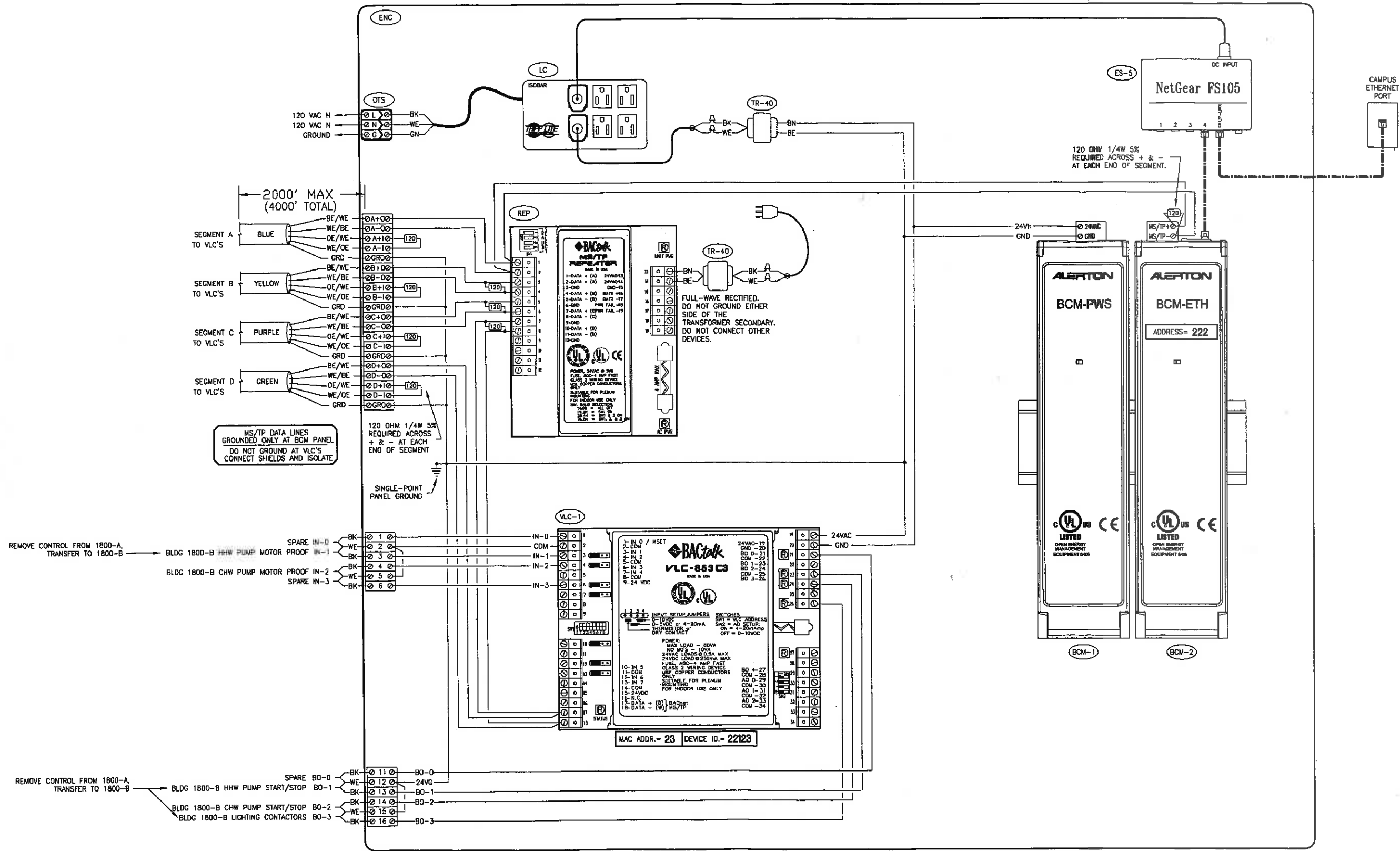
DATE	DESCRIPTION	BY
01/17/08	SUBMITAL ONLY	RAB

PROJECT
SCC BUILDING 1800A RENOVATION
4000 SUISUN VALLEY RD. FAIRFIELD, CA 94534

ALERTON[®]
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FILE P-4806
JOB NUMBER P-4806
SHEET I.D. CC 0.030

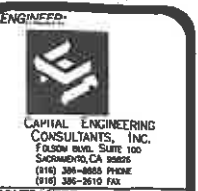
PANEL 1800-B



PARTS LIST

TAG	QTY	PART NUMBER	DESCRIPTION	COMMENTS
ENC	1	A-24N206LP	HOFFMAN 24X20X6 NEMA-1 ENCLOSURE	
	1	A-24N20MPP	HOFFMAN 24X20 PLATE	
	1	A-L12-B	HOFFMAN KEY LOCK KIT FOR TCP	
BCM1	1	BCM-PWS	ALERTON Bactalk CONTROL MODULE	POWER SUPPLY
BCM2	1	BCM-ETH	ALERTON Bactalk CONTROL MODULE	W/1 ETHERNET LAN, 1 MS/TP LAN
ES-5	1	FS105	NETGEAR 5-PORT ETHERNET SWITCH	
DTS	1	PLU-3	CONNECTRON DISC. TYPE TERMINAL STRIP	
LC	1	ISOBAR6	TRIPPLITE POWER SURGE-SPIKE PROTECTOR	
REP	1	MS/TP REPEATER	ALERTON SMART MS/TP REPEATER	
TR-40	2	XO40AAA	VERIS 120/24VAC 40VA TRANSFORMER	
VLC-1	1	VLC-853	ALERTON VISUALLOGIC CONTROLLER	

BCM-222 CONTROL PANEL WIRING DIAGRAM



CONTRACTOR:
Reliance Enterprises
 250 Caigon Ave.
 Santa Rosa, 94504
 707-545-5460

SYNERCO ENGINEER
M. MORGAN
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PROJECT
Solano Community College
Bldg 1800-B, Swing Space Renov.
 4000 Suisun Valley Road, Fairfield

#	DATE	REVISION
FILE	P-4224.DWG	
LAYER	08	
JOB NUMBER	P-4224	
SHEET I.D.	CC 1.40	

Contractors License # 483939

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