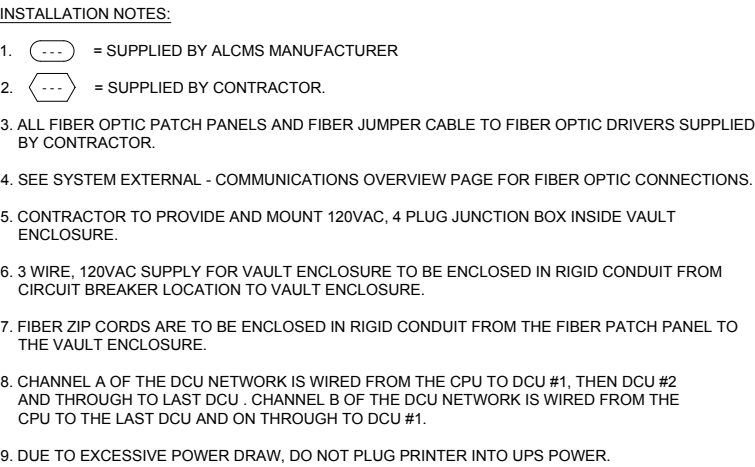




Sample L-890 ALCMS Drawings

Distributed Control Architecture

VAULT ENCLOSURE



THIS DRAWING IS ONLY INTENDED FOR USE AS GENERAL AIRFIELD SYSTEM DESIGN GUIDANCE. THE DESIGNER MUST VERIFY DESIGN WITH LOCAL CODES AND VARYING CHARACTERISTICS FOR EACH UNIQUE AIRFIELD APPLICATION.

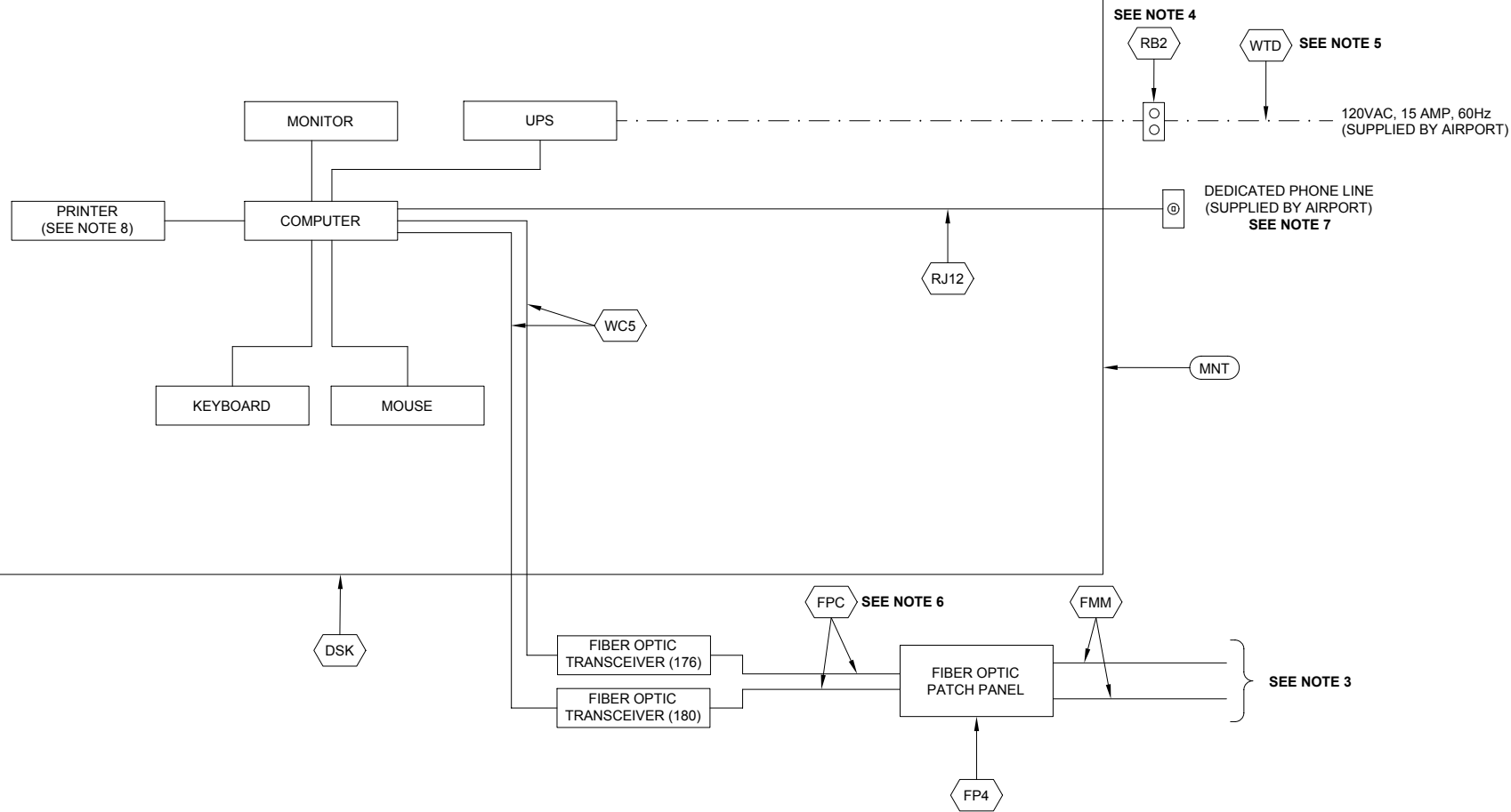
DRAWING NUMBER
TL S0005/3

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MAINTENANCE CENTER

OWNER SUPPLIED DESK



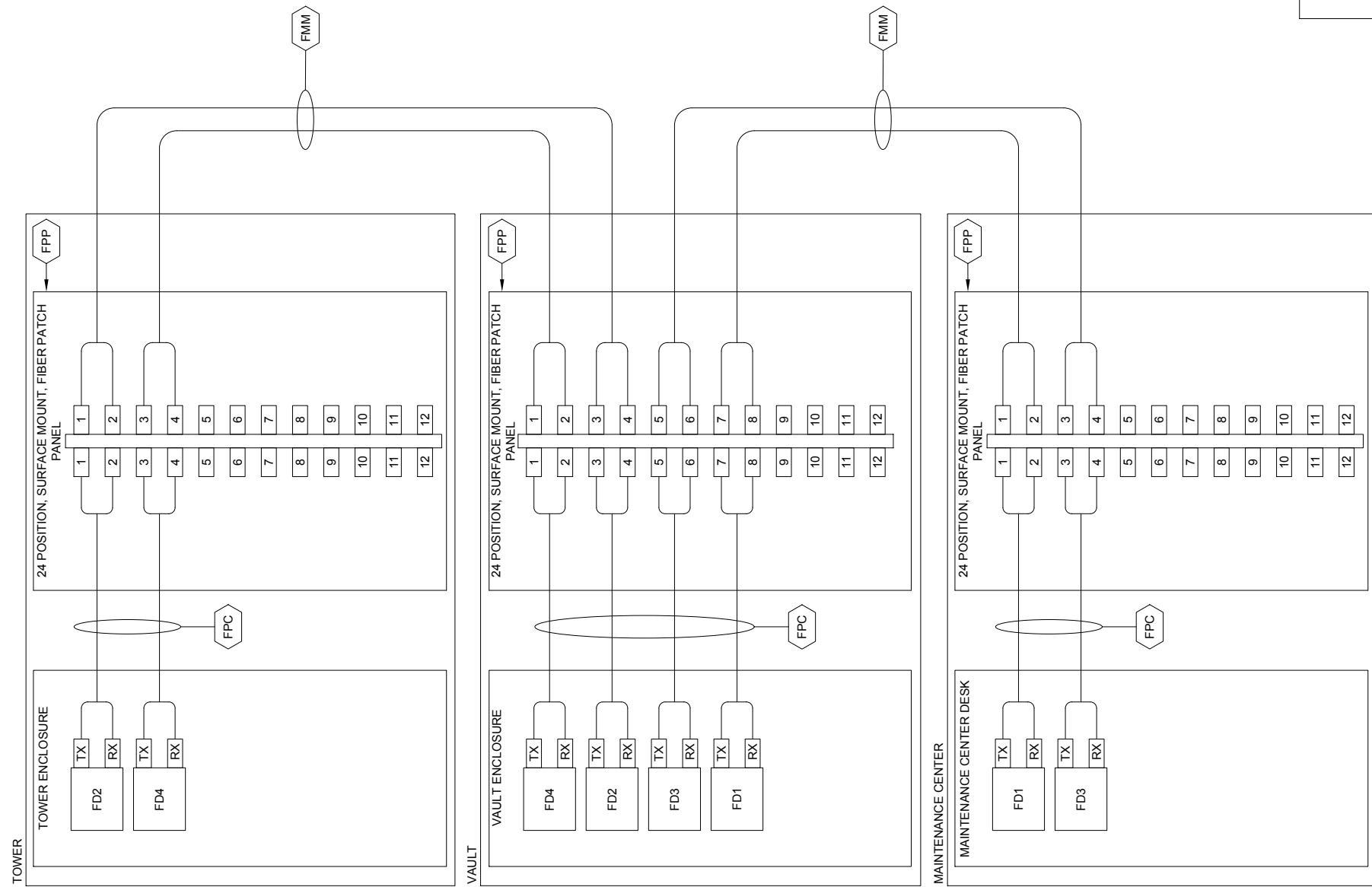
INSTALLATION NOTES:

1.  = SUPPLIED BY ALCMS MANUFACTURER
2.  = SUPPLIED BY CONTRACTOR.
3. SEE SYSTEM EXTERNAL - COMMUNICATIONS OVERVIEW PAGE FOR FIBER OPTIC CONNECTIONS.
4. CONTRACTOR TO PROVIDE AND MOUNT 120VAC, 2 PLUG RECEPTACLE BOX NEAR MAINTENANCE CENTER COMPUTER.
5. 3 WIRE. 120VAC SUPPLY FOR MAINTENANCE CENTER COMPUTER TO BE ENCLOSED IN RIGID CONDUIT FROM CIRCUIT BREAKER LOCATION TO MAINTENANCE CENTER ASSEMBLY.
6. FIBER PATCH CABLES ARE TO BE ENCLOSED IN RIGID CONDUIT FROM THE FIBER PATCH PANEL TO THE MAINTENANCE CENTER COMPUTER.
7. PHONE NUMBER NEEDS TO BE A DIRECT LINE. PHONE LINES WITH EXTENSIONS OR SWITCH THRU A PBX SYSTEM WILL NOT WORK.
8. DUE TO EXCESSIVE POWER DRAW, DO NOT PLUG PRINTER INTO UPS POWER.

CAUTION:

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DRAWING NUMBER: TLS00005/5 DRAWING TITLE: L-890 AIRFIELD LIGHTING CONTROL & MONITOR SYSTEM IN ACCORDANCE WITH AC 150/5345-56 SYSTEM EXTERNALS - COMMUNICATIONS OVERVIEW	REV. LEVEL	REVISION DESCRIPTION	DRAWN BY	REV. DATE	REV. LEVEL	REVISION DESCRIPTION	DRAWN BY	REV. DATE	ASSOCIATED DRAWINGS	CONTROLLED COPY
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ACE™ INSTALLATION NOTES

(ALL NOTES MAY NOT APPLY TO YOUR SYSTEM CONFIGURATION)

INSTALLATION NOTES:

1. ALL WALL MOUNTED ACE™ UNITS ARE TO BE LOCALLY INSTALLED NEAR THE CCR BY THE CONTRACTOR.
2. ALL WIRES TO BE INSTALLED, LABELED, AND TERMINATED BY CONTRACTOR.
3. GROUND THE ACE COMBO BOX CHASSIS USING 8AWG GROUND WIRE TO EARTH GROUND.
4. DO NOT DRILL THRU ENCLOSURE. DRILLING CHIPS AND DEBRIS CAN DAMAGE INTERNAL COMPONENTS. ADB REQUIRES USE OF KNOCKOUTS PROVIDED WITH ENCLOSURE.
5. COMMUNICATION CABLE TO BE INSTALLED AND TERMINATED BY CONTRACTOR. IT MUST BE INSTALLED IN SEPARATE CONDUIT/WIRE-WAY ISOLATED FROM POWER AND CIRCUIT CABLES.
6. REDUNDANT COMMUNICATION NETWORK CABLES SHALL NOT EXCEED TWENTY (20) ACE™ UNITS PER LOOP.
7. REDUNDANT COMMUNICATION CABLES RUNNING FROM THE ALCS COMPUTER TO THE ACE™ UNITS MUST CONNECT AT ONE END OF THE LINE OF ACE™ UNIT LINE-UP AND DAISY-CHAIN TO THE OTHER END OF THE ACE™ UNIT LINE-UP. THE COMMUNICATION CABLES CANNOT ENTER THE MIDDLE OF THE ACE™ LINE-UP AND SPLICE IN TWO DIRECTIONS.
8. REGULATOR CONTROL AND MONITORING WIRES MUST BE COLOR CODED FOR EASE OF TROUBLESHOOTING. THE CONTRACTOR SHOULD USE THE TABLE TO THE RIGHT TO DETERMINE THE COLOR FOR EACH WIRE. IF THE COLOR SCHEME CANNOT BE FOLLOWED DUE TO WIRE TYPE, FOLLOW COLOR CODING AS CLOSELY AS POSSIBLE AND MAKE ALL WIRING CONSISTENT. CALL ADB AIRFIELD SOLUTIONS IF YOU HAVE ANY QUESTIONS.
9. ADB WILL PROVIDE DRY CONTACT CLOSURES FOR CCR & MISC. DEVICE CONTROL. ALL SOURCE VOLTAGE IS TO BE PROVIDED BY AIRPORT/CONTRACTOR AND NOT TO EXCEED 2A.
10. ALL CONNECTIONS INSIDE GENERATOR AND ATS MUST PROVIDE THEIR OWN SOURCE POWER (120VAC / 24VDC / 48VDC), ARE THE RESPONSIBILITY OF THE CONTRACTOR, & SHOULD BE COORDINATED WITH THE AIRPORT AND ENGINEER.
11. CONTROL SOURCE (CS) MUST BE SOURCED WITHIN THE GENERATOR EQUIPMENT AND SHOULD BE 120VAC OR 24-48VDC.
12. ALL DRY-CONTACTS IN THE GENERATOR AND ATS USED FOR MONITORING MUST BE DETERMINED BY AIRPORT/OWNER AND CONTRACTOR IN COORDINATION WITH ATS MANUFACTURER.
13. TERMINATING RESISTORS SHALL BE CONNECTED TO THE TERMINAL BLOCK EXTENSION CONTACTS OF THE LAST ACE™ ON THE DAISY-CHAIN. ON CONNECTORS J8 & J9, PIN 1 SHOULD BE CONNECTED TO PIN 2 AND PIN 3 SHOULD BE CONNECTED TO PIN 4.
14. EQUIPMENT OUTPUTS ARE DRY CONTACT CLOSURES. SOURCE POWER FOR INPUTS TO BE PROVIDED BY EQUIPMENT. TO BE COORDINATED BY CONTRACTOR.
15. CONTRACTOR TO PROVIDE INTERPOSING RELAYS AS REQUIRED TO ENSURE PROPER INTERFACE BETWEEN EXISTING AND PROPOSED EQUIPMENT.

	ITEMS SUPPLIED BY ELECTRICAL CONTRACTOR	
	GENERAL ASSEMBLY BILL OF MATERIALS	
ITEM NO.	PART NAME/ DESCRIPTION	
WC6	WIRE, 23AWG, SOLID BARE COPPER, CAT 6, NON-PLENUM, SHIELDED (BELDEN 7953A OR EQUIVALENT)	A/R
W18	WIRE, 18 AWG, 14 CONDUCTOR, 600V	A/R
WUP	WIRE, DAISEY-CHAINED 120VAC UPS POWER FROM EQUIPMENT CABINET TO EACH ACE™ UNIT, 3 CONDUCTOR, 16AWG, STRANDED	A/R
FOC	ADB SUPPLIED FIBER OPTIC CABLES, INSTALLED BY CONTRACTOR	A/R
W12	WIRE, 3 CONDUCTOR, 12AWG, STRANDED, 120VAC	A/R
HVC	L-824 TYPE C HIGH VOLTAGE (5KVA) SERIES CIRCUIT CABLE	A/R

SEE NOTE 8

CAUTION:

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ACE™ COMMUNICATION AND CONTROL CABLE CHART

POWER	
WIRE DEFINITION	WIRE COLOR
120VAC	BLACK
NEUTRAL	WHITE
GROUND	GREEN

CONTROL WIRE COLOR CHART

WIRE DEFINITION	WIRE COLOR
CCI	WHITE
CC/B1/B10	BLACK
B2/B30	RED
B3/B100	BLUE
B4	ORANGE
B5	BROWN

MONITORING WIRE COLOR CHART

WIRE DEFINITION	WIRE COLOR
NEUTRAL	PURPLE
PRIMARY POWER	GREY
REMOTE/LOCAL (CCI)	WHITE

DRAWING TITLE: L-890 AIRFIELD LIGHTING CONTROL & MONITORING SYSTEM IN ACCORDANCE WITH AC 150/5345-56 SYSTEM EXTERNALS CONTRACTOR NOTES	REV. A	A REV LEVEL	SAMPLE DRAWING	REV LEVEL	REVISION DESCRIPTION	DRAWN BY	24OCT18 REV DATE	REV LEVEL	REVISION DESCRIPTION	DRAWN BY	REV LEVEL	REVISION DESCRIPTION	ASSOCIATED DRAWINGS:	CONTROLLED COPY	Unauthenticated duplication of this document in whole or part is prohibited. Initialed in RED ink below indicates authorized copy.
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CCR INDEX

[illegible]

MISCELLANEOUS CONTROL AND MONITORING INDEX

ACE™ NUMBER	ACE™ CONFIGURATION	COM CH A	COM CH B	ACE™ I/O CHANNEL	DESCRIPTION	I/O TYPE	ADB PROVIDED CONTROL OR MONITORING POINT TYPE	COMMENTS / NOTES
11	ACE 3 Wall Mount	5	6	0	Utility Available	INPUT	(1) OPTO-ISOLATED ; DIGITAL INPUT ; 120VAC / 24VDC	
11	ACE 3 Wall Mount	5	6	1	Utility On-Line	INPUT	(1) OPTO-ISOLATED ; DIGITAL INPUT ; 120VAC / 24VDC	
11	ACE 3 Wall Mount	5	6	2	Generator Available	INPUT	(1) OPTO-ISOLATED ; DIGITAL INPUT ; 120VAC / 24VDC	
11	ACE 3 Wall Mount	5	6	3	Generator On-Line	INPUT	(1) OPTO-ISOLATED ; DIGITAL INPUT ; 120VAC / 24VDC	
11	ACE 3 Wall Mount	5	6	4	Generator Alarm	INPUT	(1) OPTO-ISOLATED ; DIGITAL INPUT ; 120VAC / 24VDC	
11	ACE 3 Wall Mount	5	6	14	Generator Control	OUTPUT	(1) DRY CONTACT CLOSURE ; 250VAC ; MAX 1A	
11	ACE 3 Wall Mount	5	6	13	Beacon Control	OUTPUT	(1) DRY CONTACT CLOSURE ; 250VAC ; MAX 1A	
11	ACE 3 Wall Mount	5	6	5	Beacon Monitoring	INPUT	(1) OPTO-ISOLATED ; DIGITAL INPUT ; 120VAC / 24VDC	

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DRAWING TITLE:
L-890 AIRFIELD LIGHTING CONTROL
& MONITORING SYSTEM
IN ACCORDANCE WITH AC 150/5345
CCR - MISC. CONTROL & MONITORING

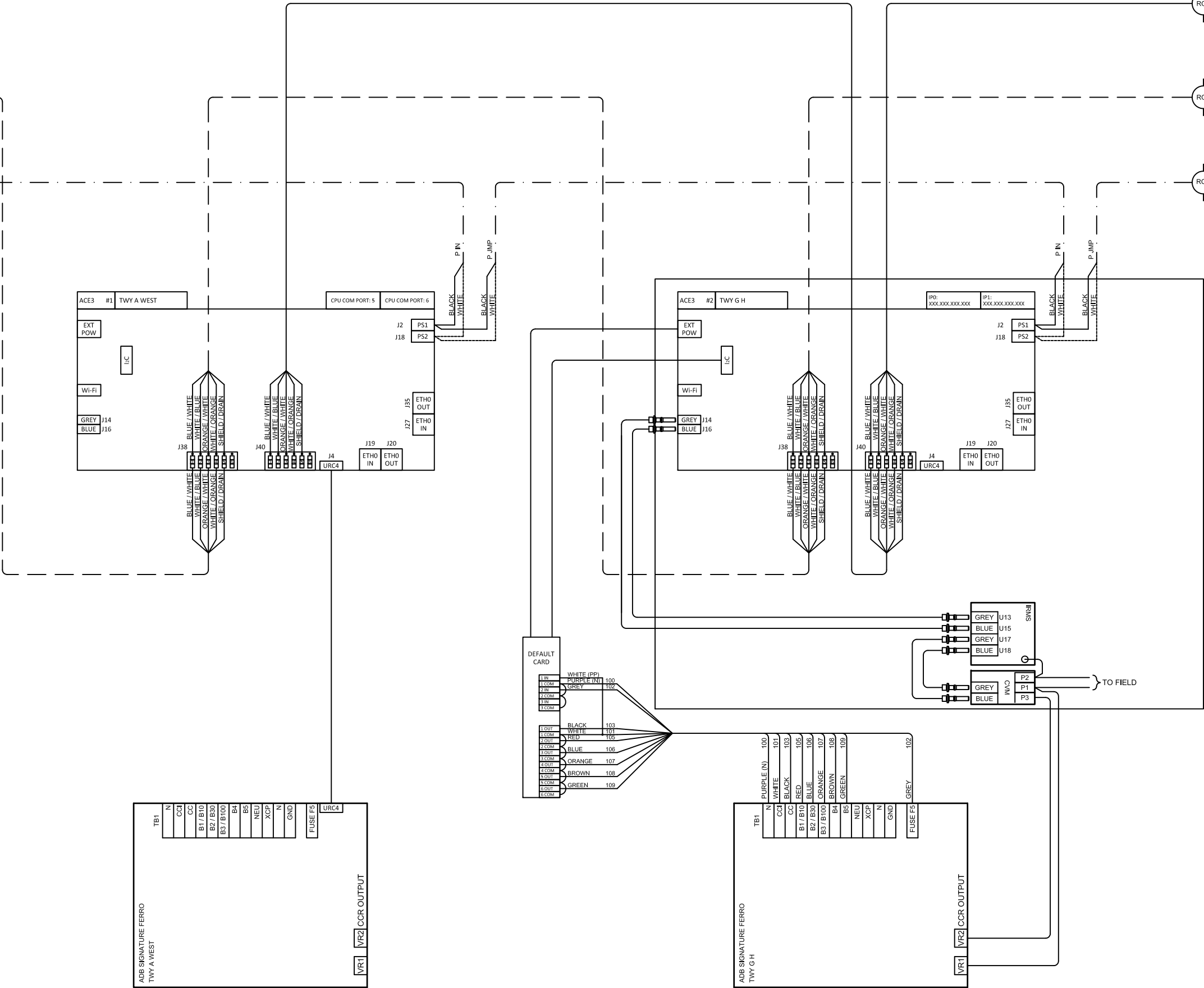
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TO ALCS CABINET
SEE TLS0009/2
COM PORT #5



TO ALCS CABINET
SEE TLS0009/2
UPS POWER



TO TLS0006/04
COM CHANNEL #6
LCB



TO TLS0006/04
COM CHANNEL #5
LCA



TO TLS0006/04
UPS POWER
LCU

DRAWING TITLE: L-890 AIRFIELD LIGHTING CONTROL & MONITORING SYSTEM IN ACCORDANCE WITH AC 150/5345-56 SYSTEM EXTERNALS CCR - MISC. CONTROL & MONITORING INDEX ACE™ POINT-TO-POINT WIRING DIAGRAM				DRAWING NUMBER: TLS00006/3			
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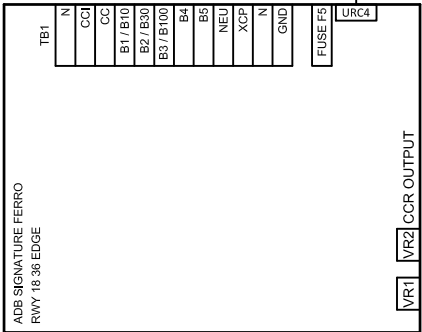
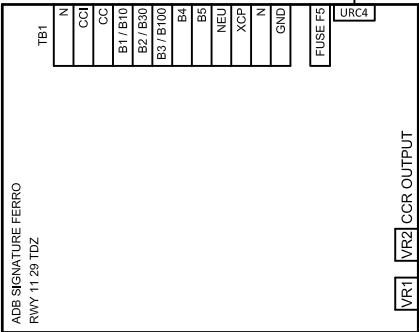
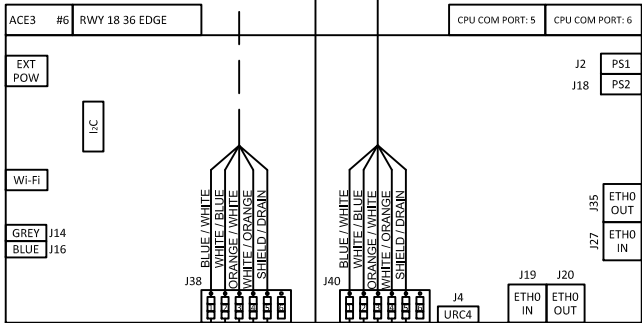
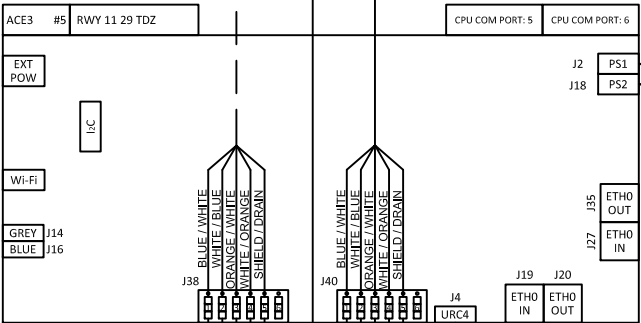
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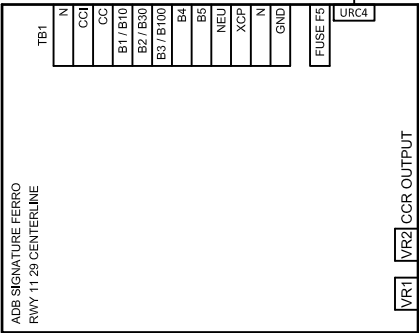
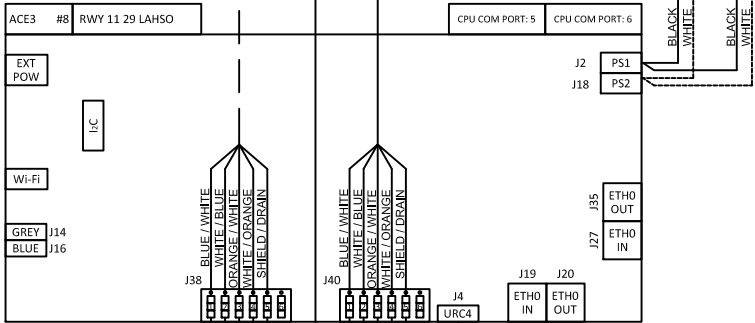
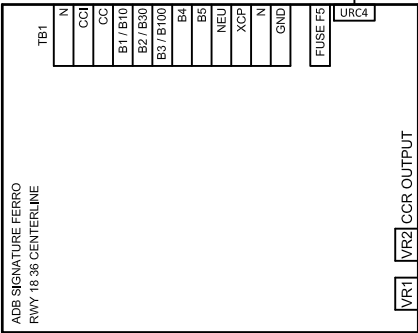
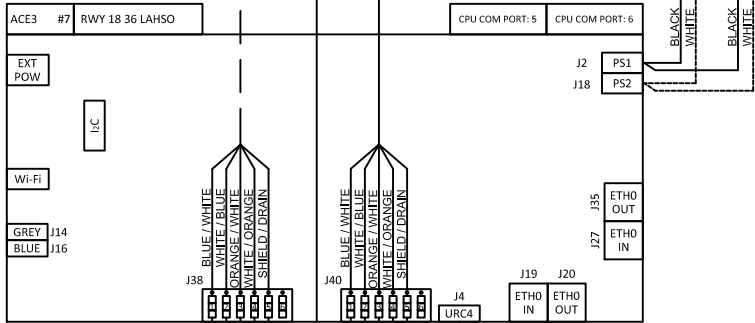
DRAWING TITLE: L-890 AIRFIELD LIGHTING CONTROL & MONITORING SYSTEM IN ACCORDANCE WITH AC 150/5345-56 SYSTEM EXTERNALS CCR - MISC. CONTROL & MONITORING INDEX ACE™ POINT-TO-POINT WIRING DIAGRAM										DRAWING NUMBER: TLS0006/5									
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SEE TLS0006/05
COM CHANNEL #6
RCB

SEE TLS0006/05
COM CHANNEL #5
RCA

SEE TLS0006/05
UPS POWER
RCU



TO TLS0006/07
COM CHANNEL #6
LCB

TO TLS0006/07
COM CHANNEL #5
LCA

TO TLS0006/07
UPS POWER
LCU

DRAWING TITLE:
L-890 AIRFIELD LIGHTING CONTROL
& MONITORING SYSTEM
IN ACCORDANCE WITH AC 150/5345-56
SYSTEM EXTERNALS
CCR - MISC. CONTROL & MONITORING INDEX
ACE™ POINT-TO-POINT WIRING DIAGRAM

DRAWING NUMBER:
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Telephone: 614-861-1304, Fax: 614-864-2069

Example: Ethernet Communication

(ALL NOTES MAY NOT APPLY TO YOUR SYSTEM CONFIGURATION)

1. ALL WALL MOUNTED ACET™ UNITS ARE TO BE LOCALLY INSTALLED NEAR THE CCR BY THE CONTRACTOR.
2. ALL WIRES TO BE INSTALLED, LABELED, AND TERMINATED BY CONTRACTOR.
3. GROUND THE ACE COMBO BOX CHASSIS USING 8AWG GROUND WIRE TO EARTH GROUND.
4. DO NOT DRILL THRU ENCLOSURE. DRILLING CHIPS AND DEBRIS CAN DAMAGE INTERNAL COMPONENTS. ADB REQUIRES USE OF KNOCKOUTS PROVIDED WITH ENCLOSURE.
5. COMMUNICATION CABLE TO BE INSTALLED AND TERMINATED BY CONTRACTOR. IT MUST BE INSTALLED IN SEPARATE CONDUIT/WIRE-WAY ISOLATED FROM POWER AND CIRCUIT CABLES.
6. REDUNDANT COMMUNICATION NETWORK CABLES SHALL NOT EXCEED TWENTY (20) ACE™ UNITS PER LOOP.
7. REDUNDANT COMMUNICATION CABLES RUNNING FROM THE ALCS COMPUTER TO THE ACE™ UNITS MUST CONNECT AT ONE END OF THE LINE OF ACE™ UNIT LINE-UP AND DAISY-CHAIN TO THE OTHER END OF THE ACE™ UNIT LINE-UP. THE COMMUNICATION CABLES CANNOT ENTER THE MIDDLE OF THE ACE™ LINE-UP AND SPLICE IN TWO DIRECTIONS.
8. REGULATOR CONTROL AND MONITORING WIRES MUST BE COLOR CODED FOR EASE OF TROUBLESHOOTING. THE CONTRACTOR SHOULD USE THE TABLE TO THE RIGHT TO DETERMINE THE COLOR FOR EACH WIRE. IF THE COLOR SCHEME CANNOT BE FOLLOWED DUE TO WIRE TYPE, FOLLOW COLOR CODING AS CLOSELY AS POSSIBLE AND MAKE ALL WIRING CONSISTENT. CALL ADB AIRFIELD SOLUTIONS IF YOU HAVE ANY QUESTIONS.
9. ADB WILL PROVIDE DRY CONTACT CLOSURES FOR CCR & MISC. DEVICE CONTROL. ALL SOURCE VOLTAGE IS TO BE PROVIDED BY AIRPORT/CONTRACTOR AND NOT TO EXCEED 2A.
10. ALL CONNECTIONS INSIDE GENERATOR AND ATS MUST PROVIDE THEIR OWN SOURCE POWER (120VAC / 24VDC / 48VDC), ARE THE RESPONSIBILITY OF THE CONTRACTOR, & SHOULD BE COORDINATED WITH THE AIRPORT AND ENGINEER.
11. CONTROL SOURCE (CS) MUST BE SOURCED WITHIN THE GENERATOR EQUIPMENT AND SHOULD BE 120VAC OR 24-48VDC.
12. ALL DRY-CONTACTS IN THE GENERATOR AND ATS USED FOR MONITORING MUST BE DETERMINED BY AIRPORT/OWNER AND CONTRACTOR IN COORDINATION WITH ATS MANUFACTURER.
13. TERMINATING RESISTORS SHALL BE CONNECTED TO THE TERMINAL BLOCK EXTENSION CONTACTS OF THE LAST ACE™ ON THE DAISY-CHAIN. ON CONNECTORS J8 & J9, PIN 1 SHOULD BE CONNECTED TO PIN 2 AND PIN 3 SHOULD BE CONNECTED TO PIN 4.
14. EQUIPMENT OUTPUTS ARE DRY CONTACT CLOSURES. SOURCE POWER FOR INPUTS TO BE PROVIDED BY EQUIPMENT. TO BE COORDINATED BY CONTRACTOR.
15. CONTRACTOR TO PROVIDE INTERPOSING RELAYS AS REQUIRED TO ENSURE PROPER INTERFACE BETWEEN EXISTING AND PROPOSED EQUIPMENT.

SEE NOTE 8

THIS DRAWING IS ONLY INTENDED FOR USE AS GENERAL AIRFIELD SYSTEM DESIGN GUIDANCE. THE DESIGNER MUST VERIFY DESIGN WITH LOCAL CODES AND VARYING CHARACTERISTICS FOR EACH UNIQUE AIRFIELD APPLICATION.

POWER			
WIRE DEFINITION		WIRE COLOR	
120VAC		BLACK	
NEUTRAL		WHITE	
GROUND		GREEN	

CONTROL WIRE COLOR CHART		MONITORING WIRE COLOR CHART	
WIRE DEFINITION		WIRE COLOR	
CCI		WHITE	
CC/B1/B10		BLACK	
B2/B30		RED	
B3/B100		BLUE	
B4		ORANGE	
B5		BROWN	

Cat5e Wire Diagram for T568B (Straight Through Cable)			
RJ45 Pin #	Wire Color (T568A)	Wire Diagram (T568A)	10Base-T Signal 100Base-TX Signal
1	White/Orange		Transmit+ BI DA+
2	Orange		Transmit- BI DA-
3	White/Green		Receive+ BI DB+
4	Blue		Unused BI DC+
5	White/Blue		Unused BI DC-
6	Green		Receive- BI DB-
7	White/Brown		Unused BI DD+
8	Brown		Unused BI DD-

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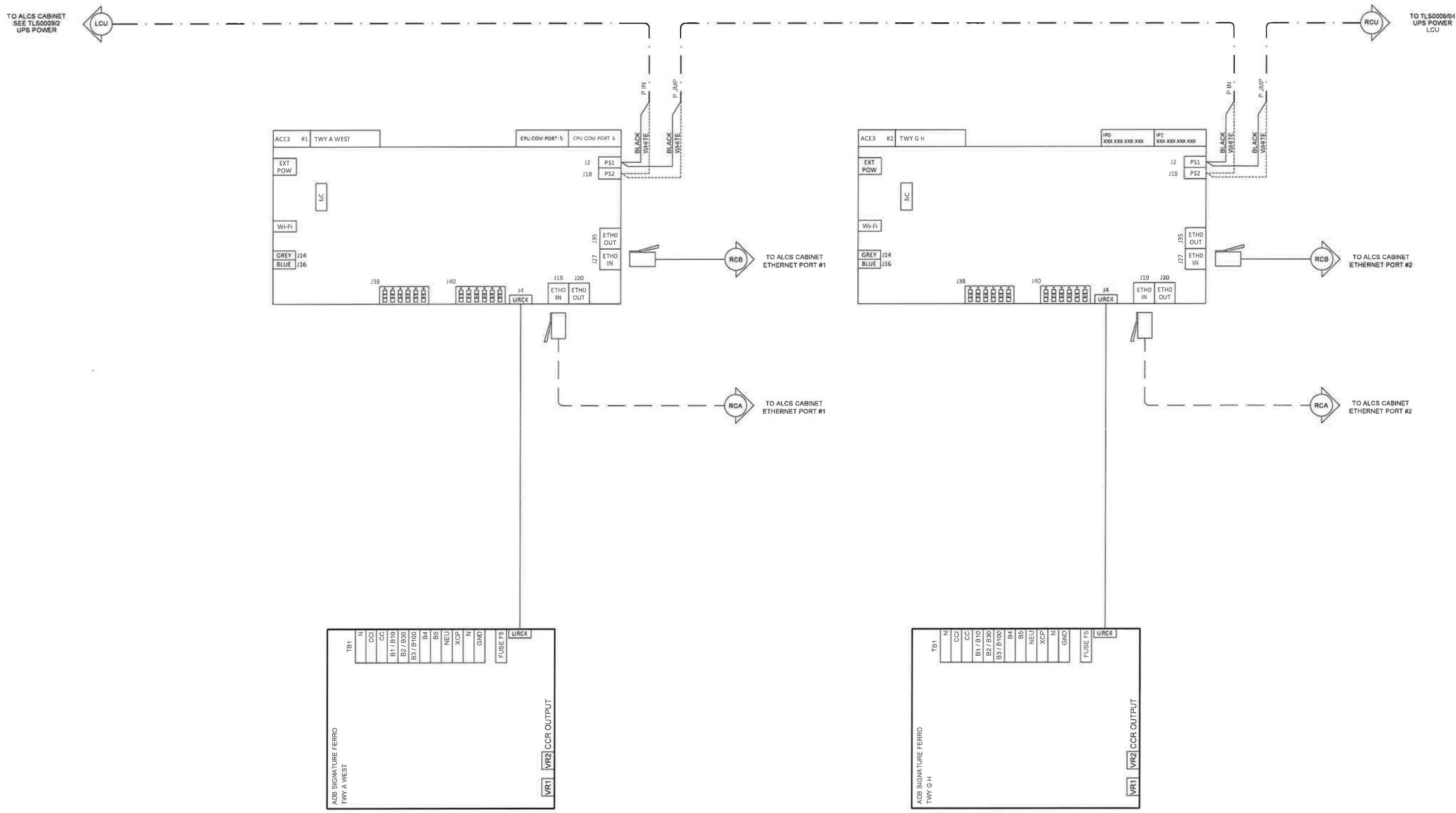
CCR INDEX																							
CCR NUMBER	ACE™ NUMBER	ACE™ CONFIGURATION	IP0 ADDRESS	IP1 ADDRESS	WIFI IP ADDRESS	COM CH A	COM CH B	CCR NAME / DESCRIPTION	CCR STEPS	SIZE (KW)	INTERNAL CCI VOLTAGE	OUTPUT CURR	CCR MANUFACTURER / MODEL	INPUT MONITORING	OUTPUT MONITORING	BRITE MASTER NUMBER	TOTAL REMOTES	CIRCUIT SELECTOR NAME	LOOP 1	LOOP 2	LOOP 3	LOOP 4	INPUT VOLTAGE
1	1	ACE 3 Integrated	XXX.XXX.XXX.XXX	XXX.XXX.XXX.XXX	XXX.XXX.XXX.XXX	5	6	TWY A WEST - TWY A WEST	3	15	120VAC	6.6	ADB SIGNATURE FERRO	NONE	URC4								480 V
2	2	ACE 3 Combo Box	XXX.XXX.XXX.XXX	XXX.XXX.XXX.XXX	XXX.XXX.XXX.XXX	5	6	TWY G H - TWY G H	3	7.5	120VAC	6.6	ADB SIGNATURE FERRO	NONE	CVM / IRMS								480 V
3	3	ACE 3 Integrated	XXX.XXX.XXX.XXX	XXX.XXX.XXX.XXX	XXX.XXX.XXX.XXX	5	6	TWY C E - TWY C E	3	15	120VAC	6.6	ADB SIGNATURE FERRO	NONE	URC4								480 V
4	4	ACE 3 Integrated	XXX.XXX.XXX.XXX	XXX.XXX.XXX.XXX	XXX.XXX.XXX.XXX	5	6	RWY GUARD LIGHTS - RWY GUARD LIGHTS	5	20	120VAC	6.6	ADB SIGNATURE FERRO	NONE	URC4								480 V
5	5	ACE 3 Integrated	XXX.XXX.XXX.XXX	XXX.XXX.XXX.XXX	XXX.XXX.XXX.XXX	5	6	RWY 11 29 TDZ - RWY 11 29 TDZ	5	15	120VAC	6.6	ADB SIGNATURE FERRO	NONE	URC4								480 V
6	6	ACE 3 Integrated	XXX.XXX.XXX.XXX	XXX.XXX.XXX.XXX	XXX.XXX.XXX.XXX	5	6	RWY 18 36 EDGE - RWY 18 36 EDGE	5	30	120VAC	6.6	ADB SIGNATURE FERRO	NONE	URC4								480 V
7	7	ACE 3 Integrated	XXX.XXX.XXX.XXX	XXX.XXX.XXX.XXX	XXX.XXX.XXX.XXX	5	6	RWY 18 36 CENTERLINE - RWY 18 36 CENTERLINE	5	20	120VAC	6.6	ADB SIGNATURE FERRO	NONE	URC4								480 V
8	8	ACE 3 Integrated	XXX.XXX.XXX.XXX	XXX.XXX.XXX.XXX	XXX.XXX.XXX.XXX	5	6	RWY 11 29 CENTERLINE - RWY 11 29 CENTERLINE	5	20	120VAC	6.6	ADB SIGNATURE FERRO	NONE	URC4								480 V
9	9	ACE 3 Integrated	XXX.XXX.XXX.XXX	XXX.XXX.XXX.XXX	XXX.XXX.XXX.XXX	5	6	RWY 11 29 EDGE - RWY 11 29 EDGE	5	20	120VAC	6.6	ADB SIGNATURE FERRO	NONE	URC4								480 V
10	10	ACE 3 Integrated	XXX.XXX.XXX.XXX	XXX.XXX.XXX.XXX	XXX.XXX.XXX.XXX	5	6	TWY A EAST - TWY A EAST	3	7.5	120VAC	6.6	ADB SIGNATURE FERRO	NONE	URC4								480 V

MISCELLANEOUS CONTROL AND MONITORING INDEX								
ACE™ NUMBER	ACE™ CONFIGURATION	COM CH A	COM CH B	ACE™ I/O CHANNEL	DESCRIPTION	I/O TYPE	ADB PROVIDED CONTROL OR MONITORING POINT TYPE	COMMENTS / NOTES
11	ACE 3 Wall Mount	5	6	0	Utility Available	INPUT	(1) OPTO-ISOLATED ; DIGITAL INPUT ; 120VAC / 24VDC	
11	ACE 3 Wall Mount	5	6	1	Utility On-line	INPUT	(1) OPTO-ISOLATED ; DIGITAL INPUT ; 120VAC / 24VDC	
11	ACE 3 Wall Mount	5	6	2	Generator Available	INPUT	(1) OPTO-ISOLATED ; DIGITAL INPUT ; 120VAC / 24VDC	
11	ACE 3 Wall Mount	5	6	3	Generator On-Line	INPUT	(1) OPTO-ISOLATED ; DIGITAL INPUT ; 120VAC / 24VDC	
11	ACE 3 Wall Mount	5	6	4	Generator Alarm	INPUT	(1) OPTO-ISOLATED ; DIGITAL INPUT ; 120VAC / 24VDC	
11	ACE 3 Wall Mount	5	6	14	Generator Control	OUTPUT	(1) DRY CONTACT CLOSURE ; 250VAC ; MAX 1A	
11	ACE 3 Wall Mount	5	6	13	Beacon Control	OUTPUT	(1) DRY CONTACT CLOSURE ; 250VAC ; MAX 1A	
11	ACE 3 Wall Mount	5	6	5	Beacon Monitoring	INPUT	(1) OPTO-ISOLATED ; DIGITAL INPUT ; 120VAC / 24VDC	

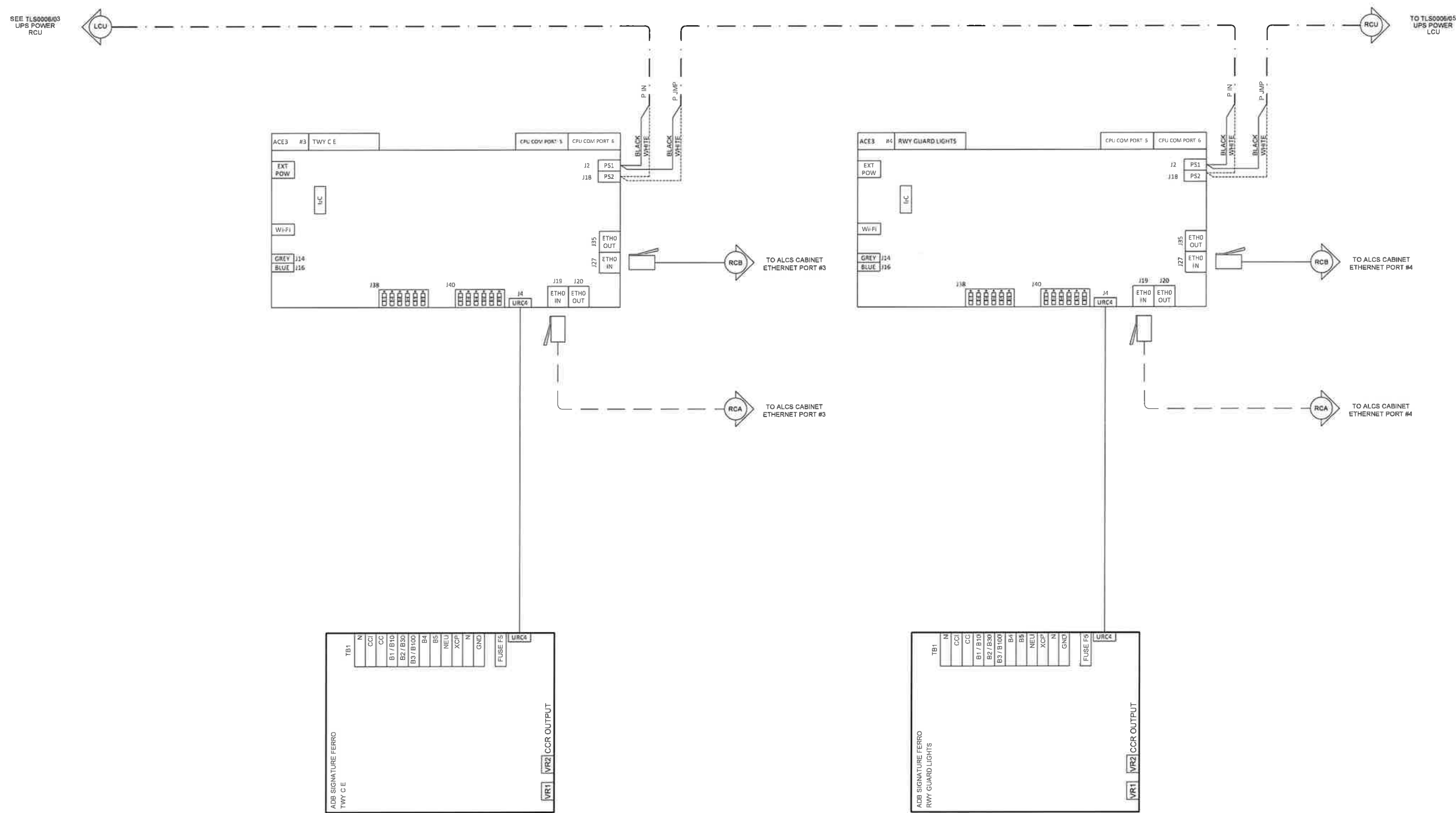
DRAWING TITLE
L-890 AIRFIELD LIGHTING CONTROL
& MONITORING SYSTEM
IN ACCORDANCE WITH AC 150/5345-59

DRAWING NUMBER
TL S0006/2

CAUTION:
THIS DRAWING IS ONLY INTENDED FOR USE AS GENERAL AIRFIELD SYSTEM DESIGN GUIDANCE. THE DESIGNER MUST VERIFY DESIGN WITH LOCAL CODES AND VARYING CHARACTERISTICS FOR EACH UNIQUE AIRFIELD APPLICATION.



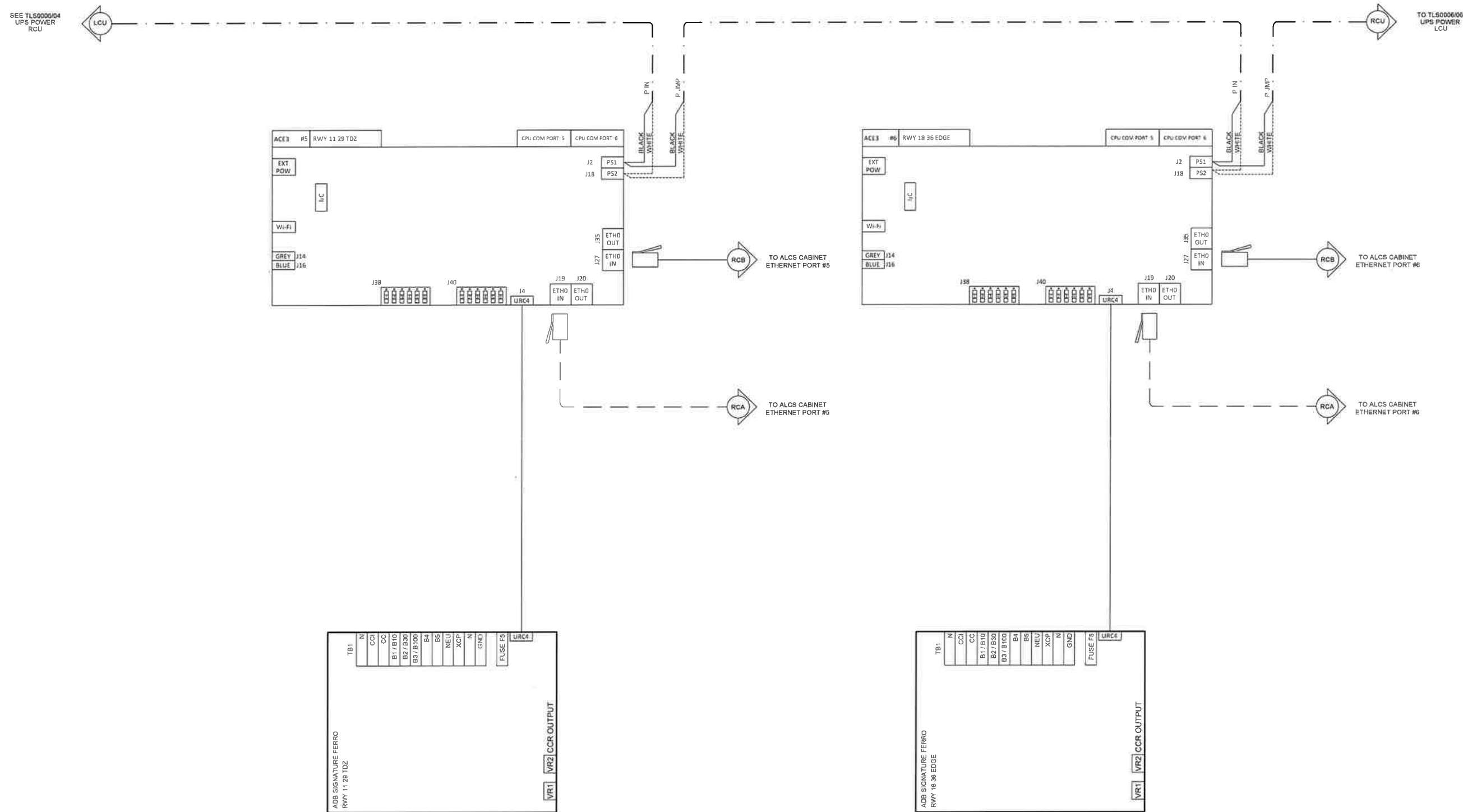
DRAWING TITLE: L-850 AIRFIELD LIGHTING CONTROL & MONITORING SYSTEM IN ACCORDANCE WITH AC-150/5345-56 SYSTEM EXTERNALS CCR - MISC. CONTROL & MONITORING INDEX ACE™ POINT-TO-POINT WIRING DIAGRAM										DRAWING NUMBER: TLS00006/3.1										REV A										A SAMPLE DRAWING REV I REV FVFI DATE 24OCT18 REVISION DESCRIPTION REV I REV FVFI DATE REVISION DESCRIPTION REV I REV FVFI									
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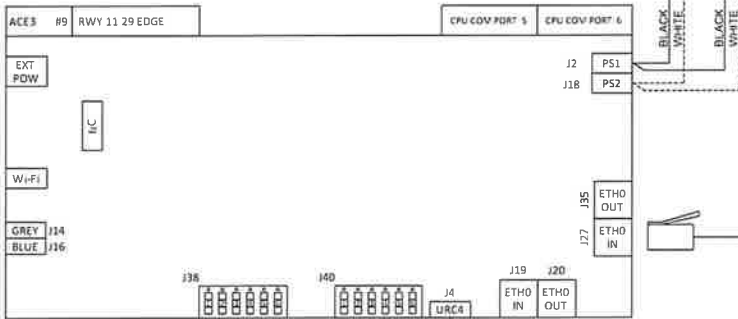
CAUTION:
THIS DRAWING IS ONLY INTENDED FOR USE AS GENERAL AIRFIELD SYSTEM DESIGN GUIDANCE. THE DESIGNER MUST VERIFY DESIGN WITH LOCAL CODES AND VARYING CHARACTERISTICS FOR EACH UNIQUE AIRFIELD APPLICATION.

[illegible]

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[illegible]

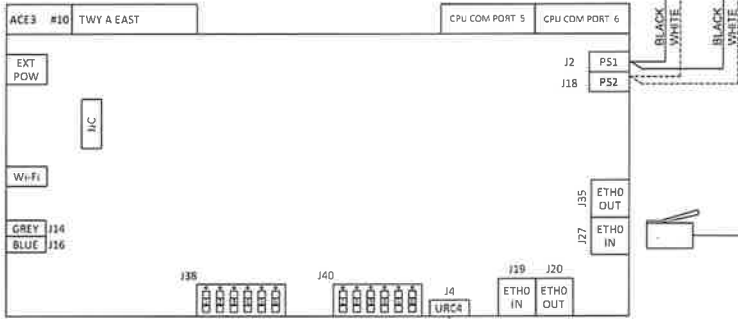
SEE TLS0006/06
UPS POWER
RCU



TO ALCS CABINET
ETHERNET PORT #9



TO ALCS CABINET
ETHERNET PORT #9



TO ALCS CABINET
ETHERNET PORT #10



TO ALCS CABINET
ETHERNET PORT #10

TO TLS0006/08
UPS POWER
LCU



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DRAWING TITLE:
L-800 AIRFIELD LIGHTING CONTROL
& MONITORING SYSTEM
IN ACCORDANCE WITH AC 150/5345-56
SYSTEM EXTERNALS
CCR - MISC. CONTROL & MONITORING INDEX
ACE™ POINT-TO-POINT WIRING DIAGRAM

DRAWING NUMBER:
TLS0006/7.1

REV. A
REV. 1
DATE: 24OCT18

RJS
DRAWN
REV. 1
DATE: 24OCT18

REVISION DESCRIPTION

DRAWN
REV. 1
DATE: 24OCT18

REVISION DESCRIPTION

ANALYZED BY:

DRAWN BY:

DRAWN DATE:

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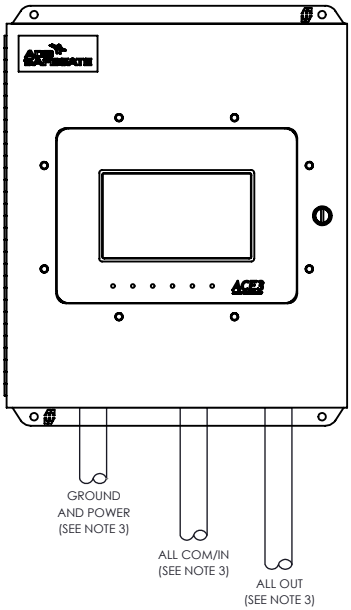


ADB SAFEGATE
977 Gahanna Parkway, Columbus, Ohio 43230
Telephone: 614-861-1304, Fax: 614-864-2069

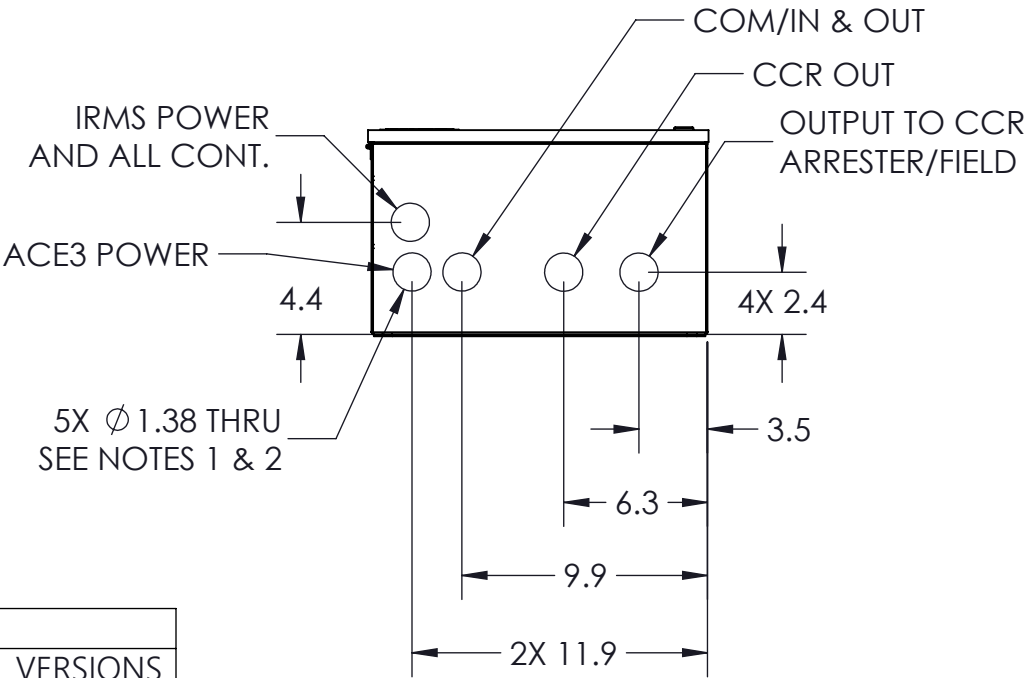
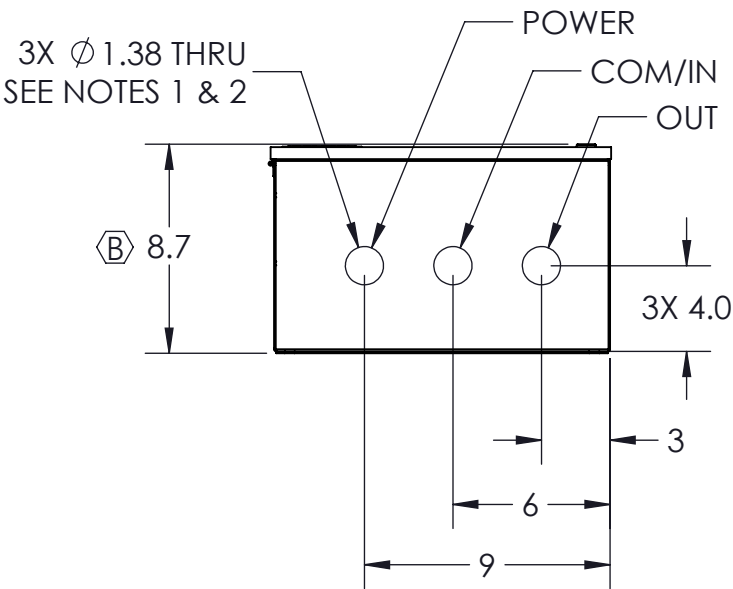
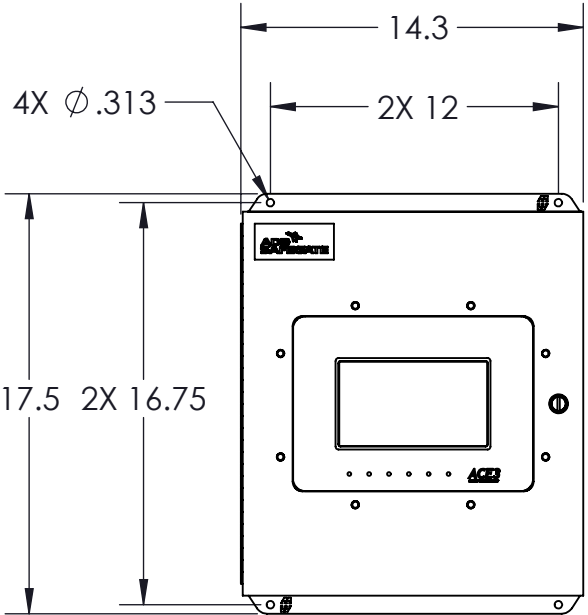
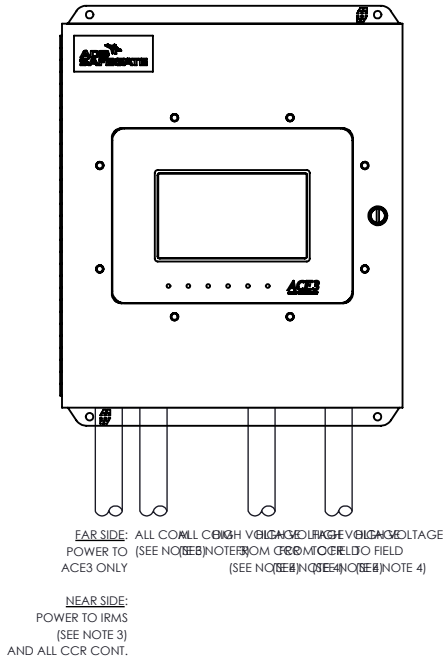
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RECOMMENDED CONDUIT SIZE & LOCATIONS SHOWN FOR REFERENCE ONLY:
(DIMENSIONS DEPICTED FOR 1" RIGID CONDUIT)

I/O CAGE/WALL MOUNT VARIANTS

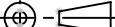


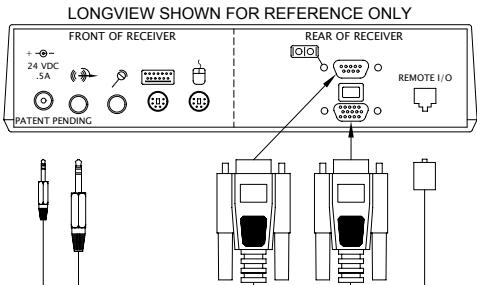
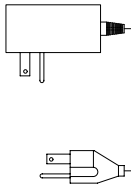
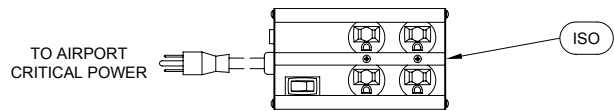
COMBO BOX VARIANTS



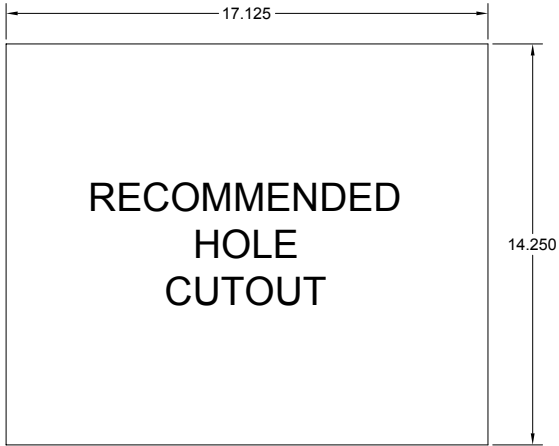
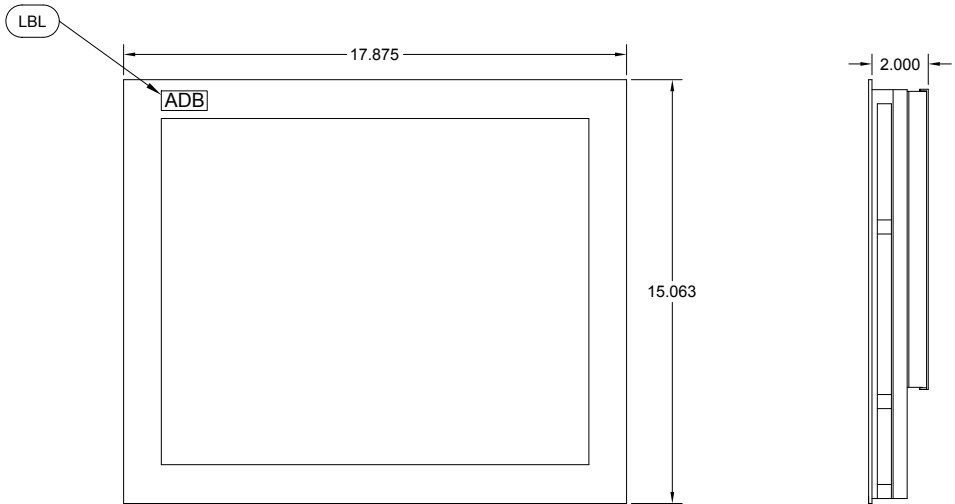
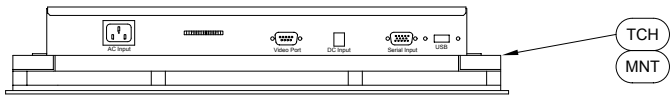
- NOTES:
- DO NOT DRILL THRU BOX. DRILLING CHIPS AND DEBRIS CANNOT FALL INTO ENCLOSURE
 - RECOMMENDED CONDUIT SIZE: 1" (RIGID IS PREFERRED)
 - RECOMMENDED MOUNTING HARDWARE: UNISTRUT
OPTIONAL: 1/4 WALL ANCHORS ON FLAT SURFACE. IF SURFACE IS NOT FLAT USE SHIMS IN ANY GAP TO PREVENT ANY DEFORMATION OF BACK PANEL.
 - REFER TO ACE3-XXXXXXXXXXXX FOR QTY OF LEADS PER PER PRODUCT SPEC - ALL POWER AND COM IN/OUT, REFER TO 43A4827 FOR LANDING POSITIONS OF POWER SUPPLY LEADS INSIDE OF ENCLOSURE (120V)
 - HV LEADS LANDED TO FIELD AT CCR OUTPUT AND OUTPUT TO FIELD, REFER TO ACE3-XXXXXXXXXXXX FOR QTY OF LEADS PER PRODUCT SPEC, REFER TO 43A4827 FOR LANDINGS
 - MAXIMUM ACE3/XXXXXXXXXXXX WEIGHT - 27 POUNDS

RELATED DOCUMENTS	
43A4827	WIRING DIAGRAM FOR ALL VERSIONS
ACE3-XXXXXXXXXXXX	PRODUCT DEFINITION WITH OPTIONS

 977 Gahanna Parkway Columbus, Ohio 43230 Telephone: 614-861-1304 THIRD ANGLE: 	DESCRIPTION : ACE3 STANDALONE INSTALLATION			
	DO NOT SCALE DRAWING ALL DIMENSIONS IN: INCHES		MATERIAL : N/A	
	IF NOT SPECIFIED TOLER.: X.X ±0.1" X.XX ±0.03" X.XXX ±0.010" ANGULAR ±1/2° MACHINE FINISH 0.8µm Ra		FINISH : N/A	
			DRAWN BY : S SPENCER	DATE : 17 SEP 2018
			SHEET : 1/1	REV : B
		PART NUMBER: DA00001-XXX-01		

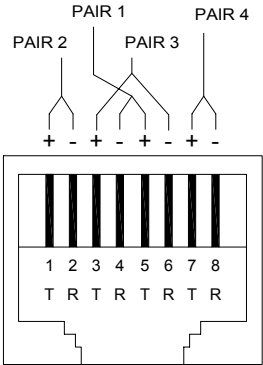


CAT 5 COMMUNICATION CABLE TO
LONGVIEW TRANSMITTER REMOTE I/O
(SUPPLIED & INSTALLED BY CONTRACTOR)



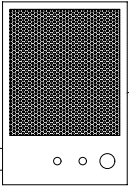
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STANDARD 4 PAIR WIRING COLOR CODES		
PAIR 1	T	WHITE/BLUE
	R	BLUE/WHITE
PAIR 2	T	WHITE/ORANGE
	R	ORANGE/WHITE
PAIR 3	T	WHITE/GREEN
	R	GREEN/WHITE
PAIR 4	T	WHITE/BROWN
	R	BROWN/WHITE



CAT5 COMMUNICATION CABLE LONGVIEW PIN-OUT CONNECTIONS FOR RJ45
CONNECTORS ON EACH END
(568-B STRAIGHT THROUGH WIRING CONNECTION)

ALARM WIRING
SPEAKER MOUNTED NEAR TOUCH
SCREEN. LOCATION TO BE DETERMINED
AT TIME OF INSTALLATION



SPK

TO AIRPORT
CRITICAL POWER

DRAWING TITLE:
L-890 AIRFIELD LIGHTING CONTROL
& MONITOR SYSTEM
IN ACCORDANCE WITH AC 150/5345-56
19" ELO RACK/PANEL RESISTIVE TOUCHSCREEN
ASSEMBLY

DRAWING NUMBER:
A
REV. A
REV. LEVEL

REVISION DESCRIPTION
REV. LEVEL
REV. DATE
DRAWN BY

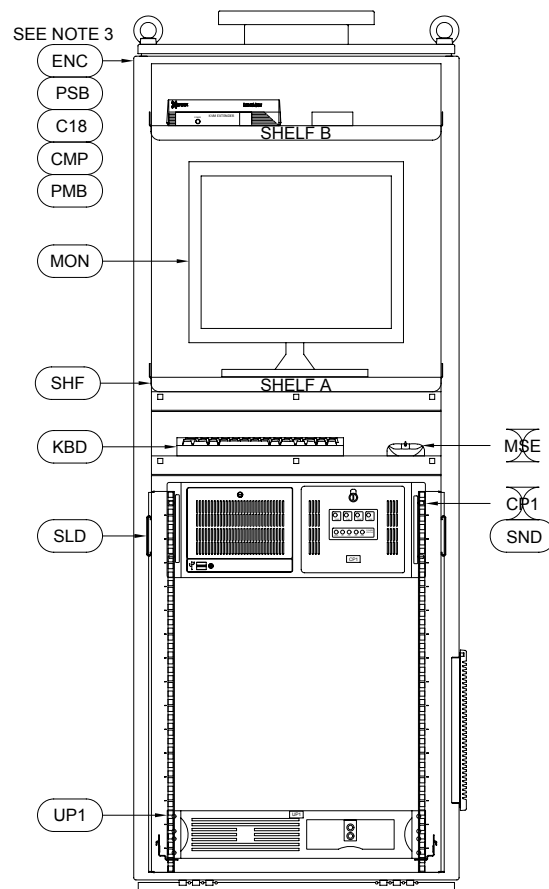
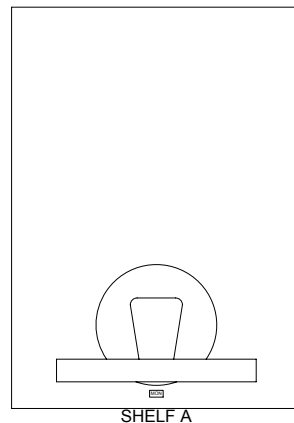
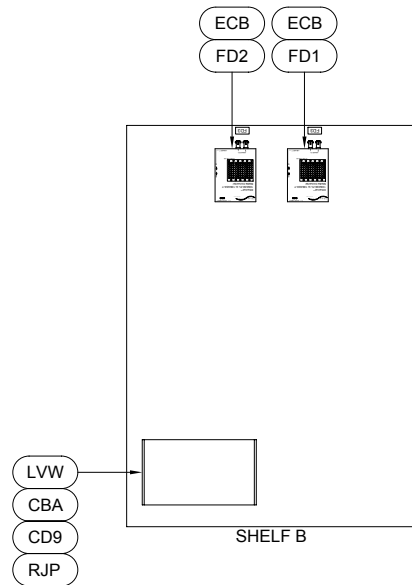
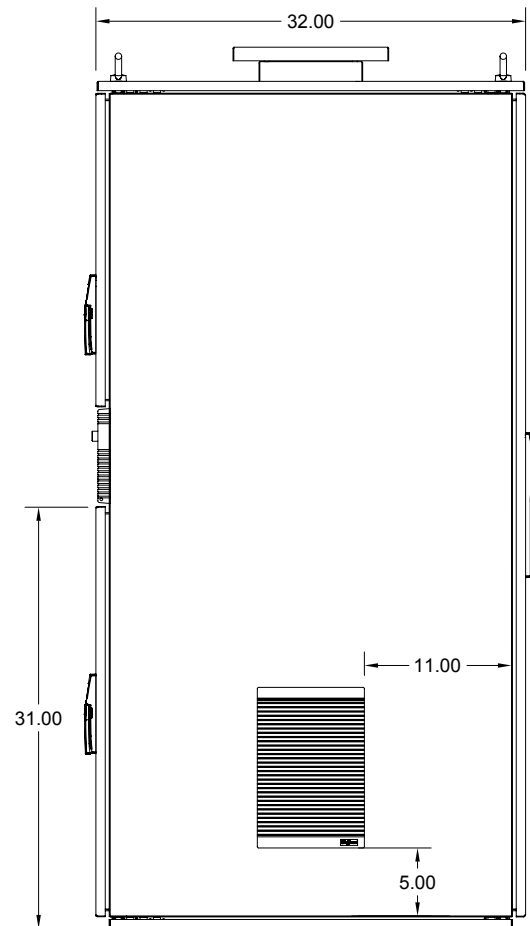
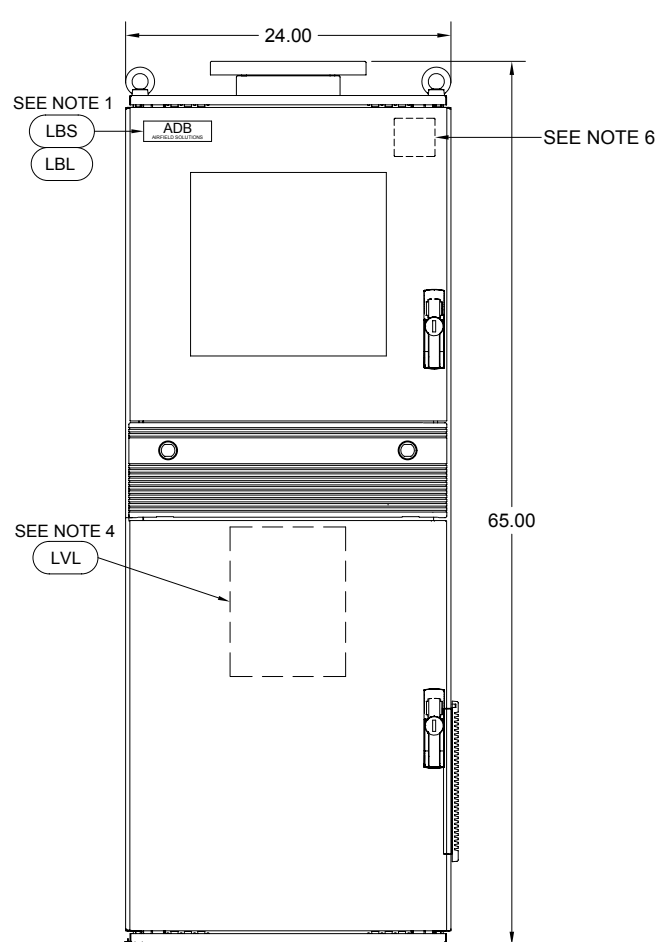
REV. DATE
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ADB
ADB Airfield Solutions
977 Gahanna Parkway, Columbus, Ohio 43230
Telephone: 614-861-1304 Fax: 614-864-2089

GENERAL BILL OF MATERIAL				
Item #	Part Number	Description	U/M	QTY
ISO	****	ISOBAR SURGE PROTECTOR 4OUTLET	EA	1
SPK	****	SPEAKER PAIR AMP W/AC ADAPTER	EA	1
TCH	****	19" ELO RACK/PANEL RESISTIVE TOUCHSCREEN	EA	1
MNT	****	MOUNTING BRACKET FOR TOUCHSCREEN	EA	1
LBL	****	.059 INT GRADE POLYMER ADB LABEL	EA	1



GENERAL BILL OF MATERIAL				
ITEM #	PART NUMBER	DESCRIPTION	U/M	QTY
ECB	105A0335/10	CAT 5 ETHERNET CABLE 10 FT	EA	3
FD1-2	105A0454/2	FBR TRSVR ETHR MM 850NM ST 10/10	EA	2
SND	105A0484	Sound Blaster Audigy SE 7.1 , 24-bit PCI	EA	1
KBD	105A0500/16P	KEYBOARD PC-AT 101 KEYS 16.5"	EA	1
LVW	105A0537/800	VIDEO EXTENDER LONGVIEW W/ AUDIO	EA	1
CD9	105A0543/6	CABLE DB9 M/F EXT.6FT, LVW TO TCH	EA	1
CBA	105A0554/6	CABLE AUDIO 1/8" MINIPLUG M/M	EA	1
NIC	105A0559/1	INTEL PRO/1000 GT DESKTOP ADAPTOR	EA	1
UP1	105A0627/10R	UPS, 1000VA, 670W, 120V, RM, 2U, BL	EA	1
MON	105A0630/17T	MONITOR 17" LCD FLAT TABLE MOUNT	EA	1
MSE	105A0679	MOUSE, OPTICAL, USB & PS2	EA	1
LBS	42A0513	ADB LABEL 1.5 X 3.3" PMS298 7 Cool Gray	EA	1
LBL	42A0599	ALCMS SERVICE LABEL	EA	1
LVL	42A0602	LONGVIEW QUICK REFERENCE LABEL	EA	1
CP1	44A6115/FCFX	IND. RKMT CPU FLSH DRV CP FLSH XP REV. C	EA	1
IOA	44A6994	ADAM W/ FIBER DRVR I/O CONTROL ENC ASSY	EA	1
PSB	56A0201	POWER BAR 8 RECEPTACLE COMP	EA	1
ENC	56A0430	HOFFMAN BASE ENCLOSURE WITH SHELF	EA	1
SHF	56A0431	HOFFMAN MODIFIED SHELF 256JU	EA	1
PMB	60A4042	POWER STRIP MOUNTING BRACKET	EA	1
CMP	70A0461	MALE PLUG 15A/125V	EA	1
RJP	72A0290	RJ45 8 POS PLUG	EA	2
SLD	85A0074/26	SL RAILS REAR RK MNT 26" BASE W/ B308	PR	1
C18	89A0212	UL: 18/3 SJOW CORD 18AWG 3C: BLK WHT GRN	FT	7

1. PLACE ADB™ LABEL 1" OVER AND 1" DOWN FROM THE TOP LEFT OF ENCLOSURE.
2. ALL COMPONENTS TO HAVE AN IDENTIFIER LABEL. LABELS ARE TO BE APPLIED TO SHELF IN FRONT OF COMPONENT WHENEVER POSSIBLE. LABELS ARE TO MATCH PART CALLOUT.
3. SEE 117A0051 & 117A0052 FOR ENCLOSURE ASSEMBLY INSTRUCTIONS.
4. LONGVIEW QUICK REFERENCE LABEL TO BE APPLIED TO INSIDE OF ENCLOSURE BOTTOM DOOR.
5. PLACE ALCMS SERVICE LABEL ON INSIDE RIGHT HAND CORNER OF UPPER DOOR.
6. PLACE SERIALIZATION LABEL ON INSIDE LEFT HAND CORNER OF UPPER DOOR.

[illegible]

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[illegible]

DRAWING TITLE:
L-890 AIRFIELD LIGHTING CONTROL
& MONITOR SYSTEM
IN ACCORDANCE WITH AC 150/5345-56
TOWER ENCLOSURE ASSEMBLY

DRAWING NUMBER:	REV.
TL S0008/1	A

A**D****B**

ADB Airfield Solutions
977 Gahanna Parkway, Columbus, Ohio 43230
Telephone: 614-861-1304, Fax: 614-864-2069

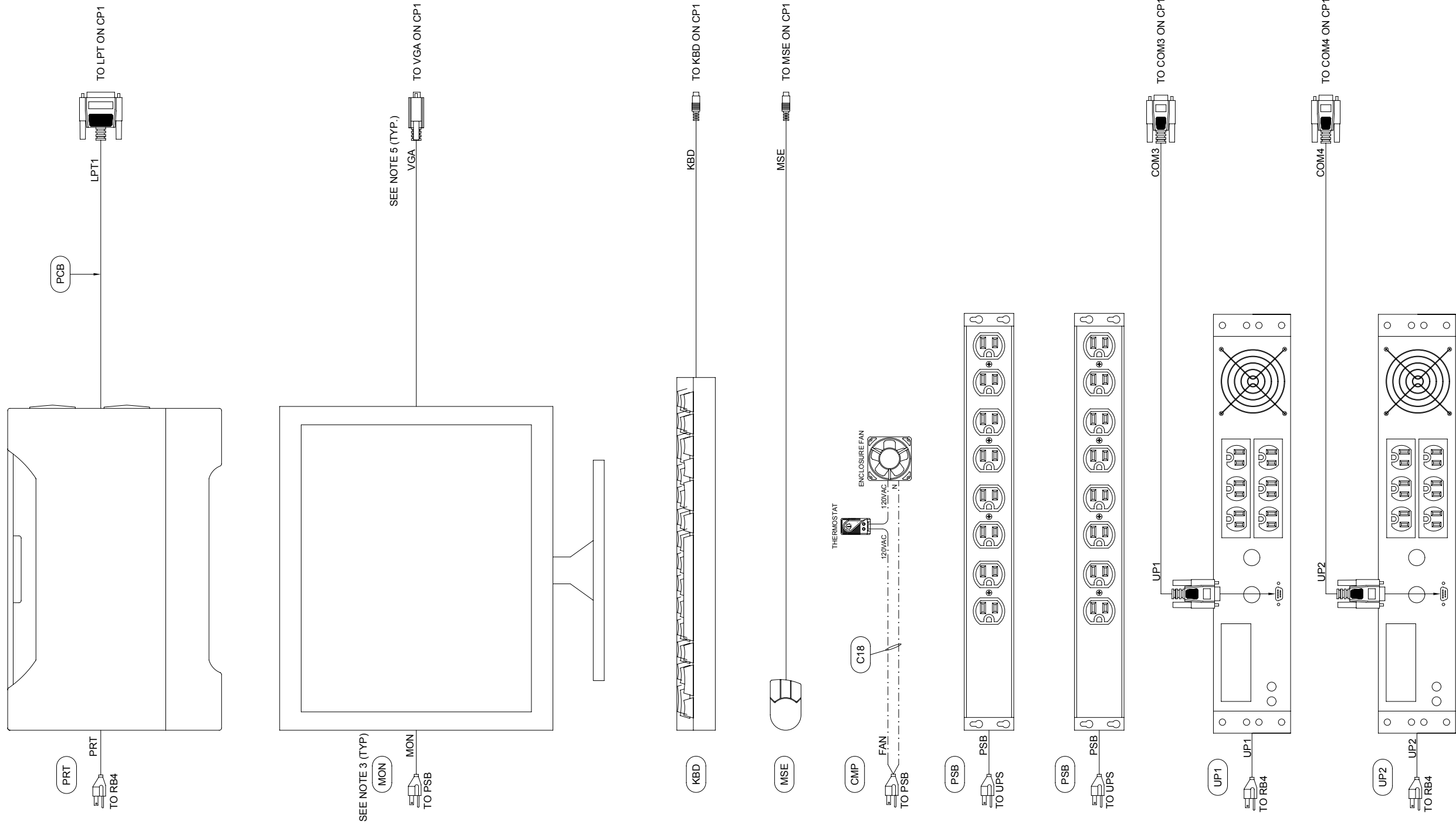
CAUTION:
THIS DRAWING IS ONLY INTENDED FOR USE AS GENERAL AIRFIELD SYSTEM DESIGN GUIDANCE. THE DESIGNER MUST VERIFY DESIGN WITH LOCAL CODES AND VARYING CHARACTERISTICS FOR EACH UNIQUE AIRFIELD APPLICATION.

INSTALLATION NOTES:

1. SBM = SUPPLIED BY MANUFACTURER
2. SBC = SUPPLIED BY CONTRACTOR
3. SEE T1S0009/1 FOR ADB CALLOUT DEFINITIONS
4. CONNECTION PORTS ON REAR OF CP1 TO BE LABELED AS SHOWN.
5. ALL WIRES & CABLES TO BE LABELED AS SHOWN.

POWER CONNECTIONS

DATA CONNECTIONS



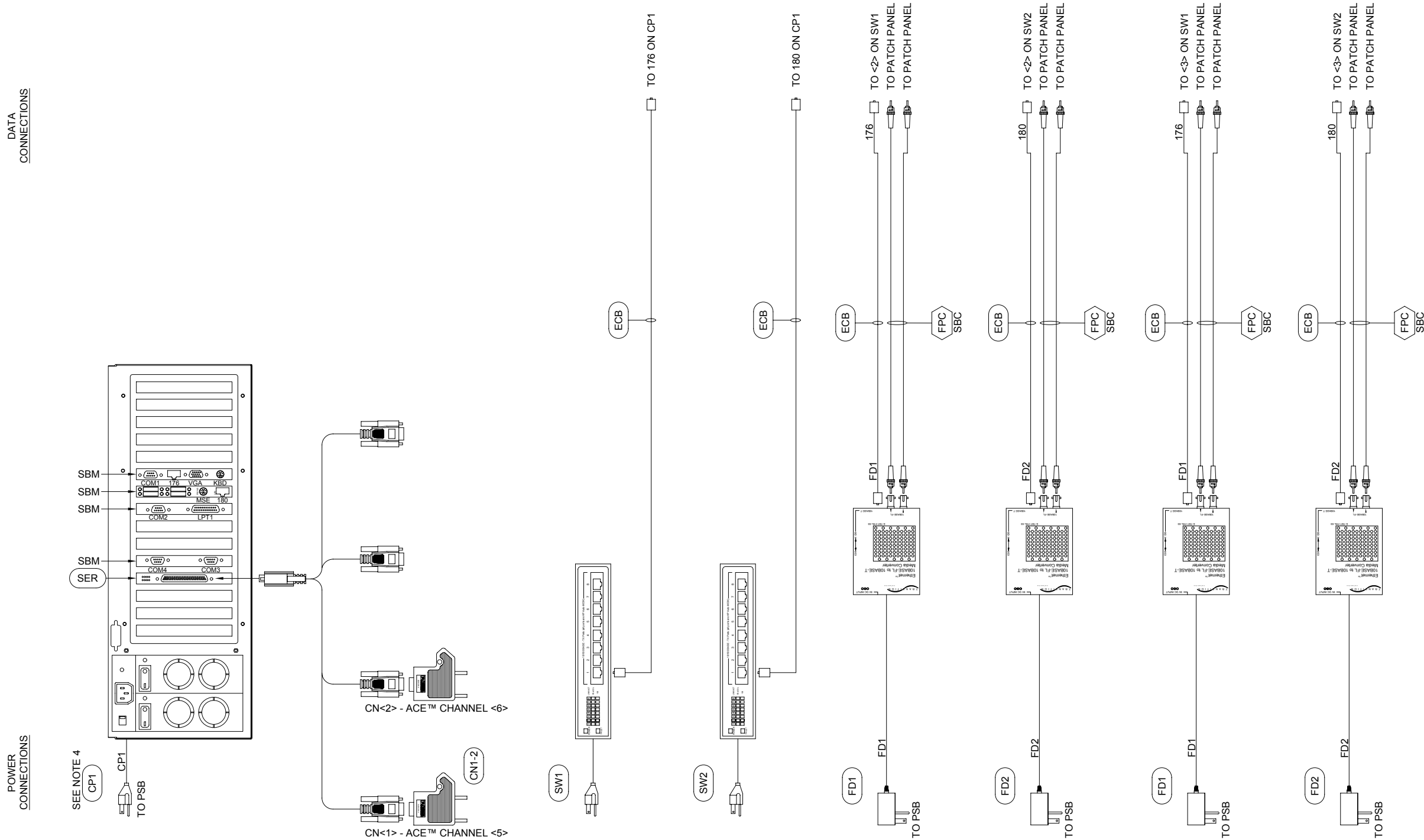
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[illegible]

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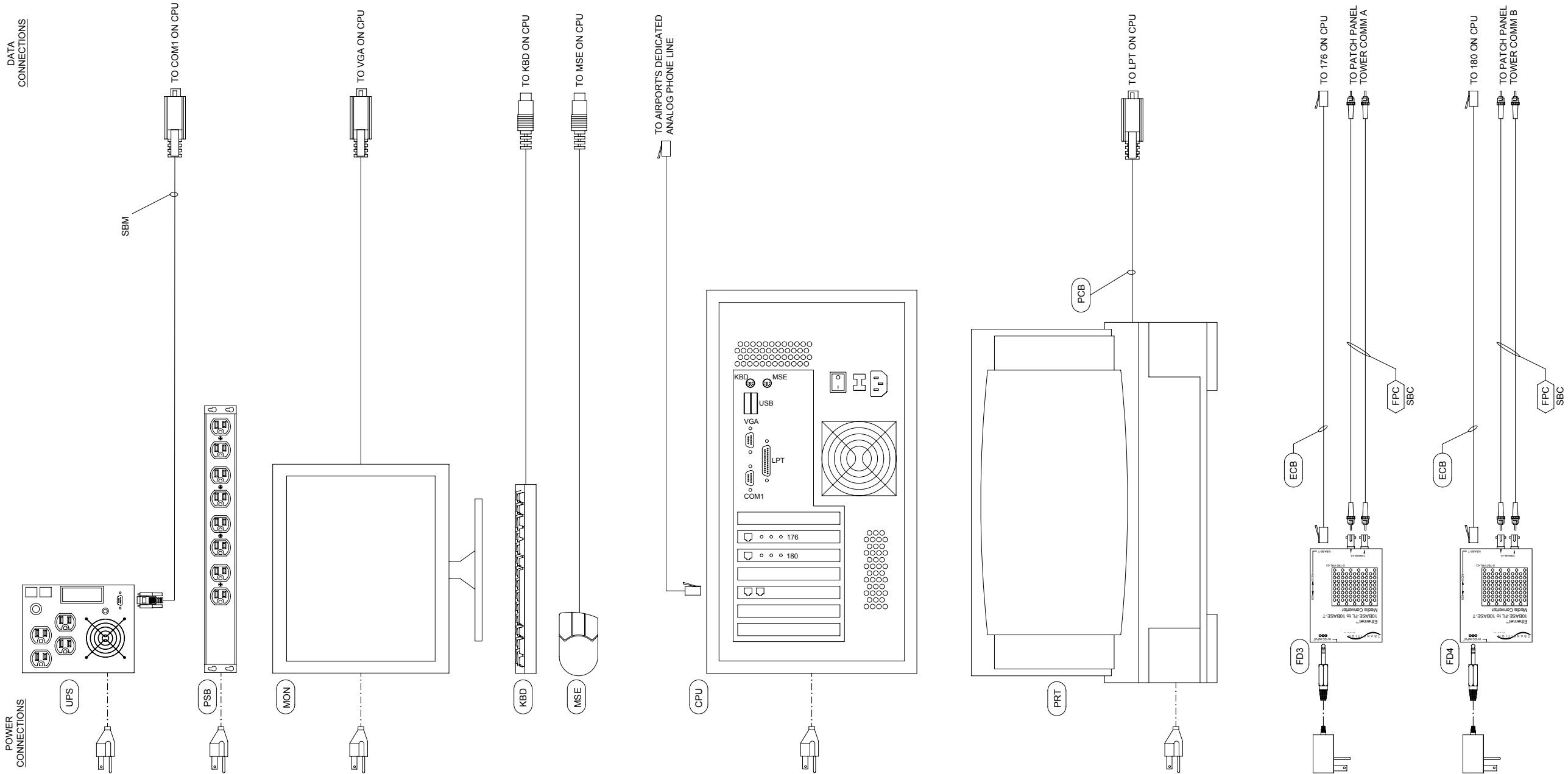
1. SBM = SUPPLIED BY MANUFACTURER
2. SBC = SUPPLIED BY CONTRACTOR
3. SEE T15009/1 FOR ADB CALLOUT DEFINITIONS
4. CONNECTION PORTS ON REAR OF CPU TO BE LABELED AS SHOWN.
5. ALL WIRES & CABLES TO BE LABELED AS SHOWN.



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DRAWING TITLE: L-890 AIRFIELD LIGHTING CONTROL & MONITOR SYSTEM IN ACCORDANCE WITH AC 150/5345-56 MAINTENANCE CENTER ASSEMBLY INTERNAL WIRING DIAGRAM	REV. A	REV LEVEL	REV DATE	DRAWN BY	REV LEVEL	REV DATE	REVISION DESCRIPTION	DRAWN BY	REV DATE	REVISION DESCRIPTION	ASSOCIATED DRAWINGS				CONTROLLED COPY	
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