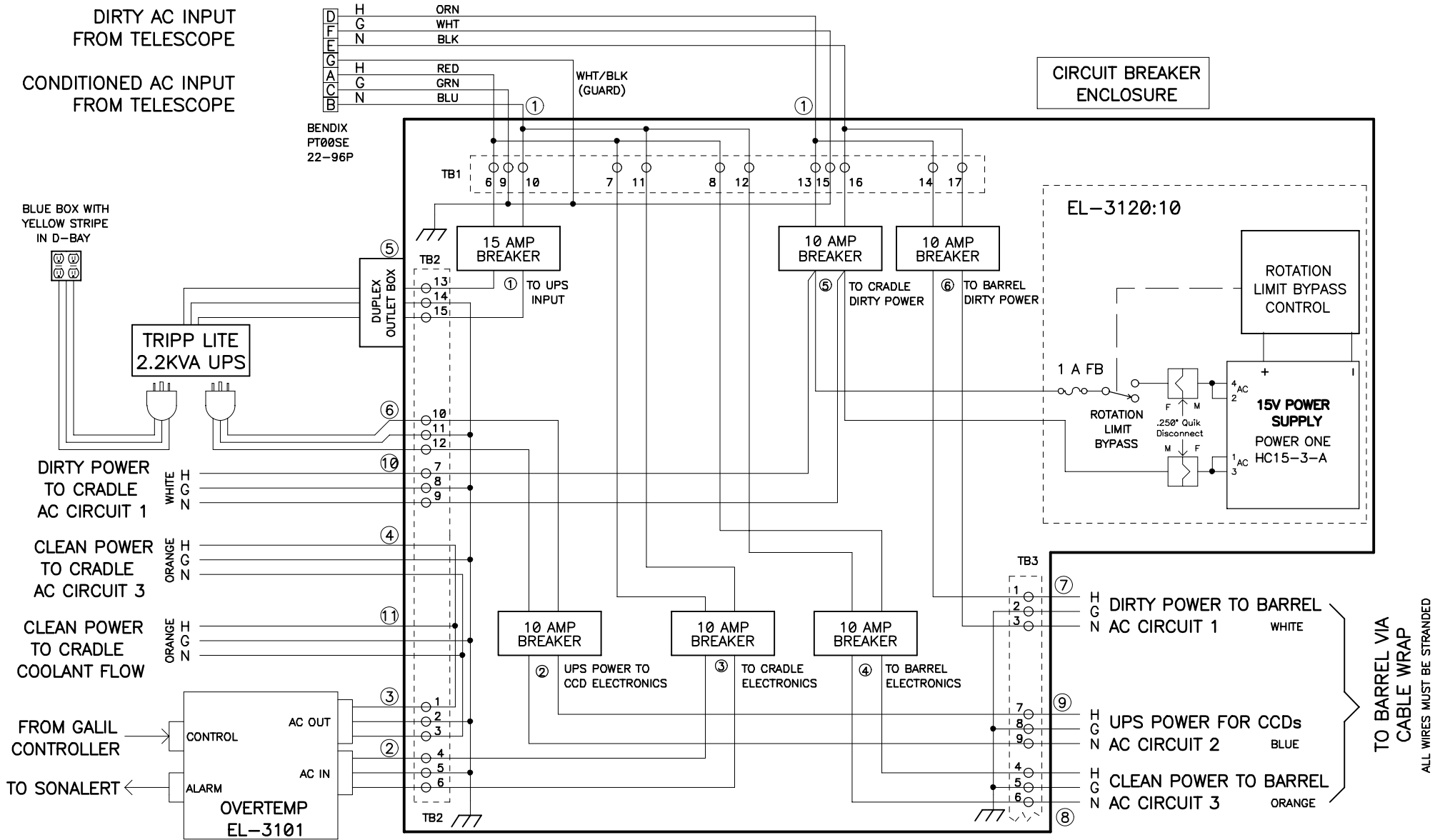


CIRCUIT 1 – DIRTY POWER (WHITE BOXES)
 CIRCUIT 2 – CCD ELECTRONICS (BLUE BOXES)
 CIRCUIT 3 – CLEAN POWER (ORANGE BOXES)

UNIVERSITY OF CALIFORNIA LICK OBSERVATORY		OVERALL BLOCK DIAGRAM MAIN AC POWER WIRING DEIMOS SPECTROGRAPH	
DES'N BY: B. Alcott & TC	ORIGIN DATE: 05-19-95	DWG. NO.	NUM. 1 OF 7
Last SN:	MODIFY DATE: 11-21-01	EL-3002	
PATH: DEIMOS\ACPWR			

REVISION	
08-21-00	CHANGED "BEAM" TO "SIDE" to
11-17-00	UPDATED SHEET 6
05-22-01	REMOVED OLD UPS CIRCUITS, ADDED CRADLE OVER-TEMP AND RESET. to
06-18-01	ADDED AC INPUT FROM TELESCOPE CONNECTOR
10-30-01	ADDED BARREL OVER-TEMP CUTOUTS to
11-21-01	MOVED BARREL ORANGE AND BLUE CUT-OUTS BEYOND J-BOX SWITCHES
01-28-02	CORRECTED AC INPUT WIRING POLARITIES (SHEET 2)



- ① CHASSIS HOLE NUMBERS - SEE SHEET 7
- ② CIRCUIT BREAKER NUMBERS.

**UNIVERSITY OF CALIFORNIA
LICK OBSERVATORY**

**B-BAY CIRCUIT BREAKER WIRING
MAIN AC POWER WIRING
DEIMOS SPECTROGRAPH**

REVISION

04-11-00	ADDED THIS NEW FIRST SHEET
08-31-00	CHANGED "BEAM" TO "SIDE" and ADDED BEAKER LABELS to
05-09-01	REMOVED OLD UPS CIRCUITS, REASSIGNED BREAKERS, ADDED LIMIT BYPASS. to
05-25-01	ADDED UPS CONNECTIONS AND OVERTEMP DETAILS
06-18-01	ADDED AC INPUT FROM TELESCOPE CONNECTOR
09-05-01	ADDED FLOWMETER CIRCUIT AND CHASSIS HOLE NUMBERS.
11-21-01	ADDED D-BAY OUTLET & FIXED BENDIX CONN AND ADDED WIRE FROM PIN "G" TO CHASSIS GROUND.
01-28-02	CORRECTED AC INPUT WIRING POLARITIES

DES'N BY: B. Alcott & TC	ORIGIN DATE: 05-19-95
Last SN:	MODIFY DATE: 01-28-02
PATH: DEIMOS\ACPWR	
REV. A	

DWG. NO.	NUM. 2 OF 7
EL-3002	

CRADLE AC LAYOUT

LEFT SIDE

(AS SEEN FROM BEARING END)

RIGHT SIDE

(AS SEEN FROM BEARING END)

A-BAY

B-BAY

D-BAY

C-BAY

DOUBLE
DUPLEX

DUPLEX
OUTLET
"DIRTY"

CONDUIT

CCD CONTROLLER
UPS (BLUE)

CIRCUIT
BREAKERS

DUPLEX
OUTLET
"DIRTY"

TRACTOR
CONTROLLER

ORANGE

(WALL MTG.)
BARCODE
SCANNER
PS

TIME-ON
RELAY

LAN-
TRONIX

4-PORT
HUB

"DIRTY"

LINUX PC

FANS

CONDUIT

ROTATION
STOP J-BOX

"DIRTY"

GALIL
PANEL #0

ORANGE

SEE SHEET 1 FOR WIRING

UNIVERSITY OF CALIFORNIA
LICK OBSERVATORY

CRADLE AC LAYOUT
MAIN AC POWER WIRING
DEIMOS SPECTROGRAPH

REVISION

04-24-00	ADDED THIS SHEET
05-22-00	ADDED SIDE A OUTLET BOX
08-31-00	CHANGED "BEAM" TO "SIDE", ADDED GALIL & LINUX PC tc
03-19-01	UPDATED LOCATIONS OF VARIOUS BOXES
04-12-01	ADDED "BAY" LABELS
11-21-01	MOVED TRACTOR CONTROL BOX TO BACK OF INSTRUMENT AND ADDED 4-PORT HUB, TIME-ON RELAY, AND BARCODE SCANNER POWER SUPPLY

DES'N BY: B. Alcott & TC

ORIGIN DATE: 05-19-95

DWG. NO.

NUM. 3 OF 7

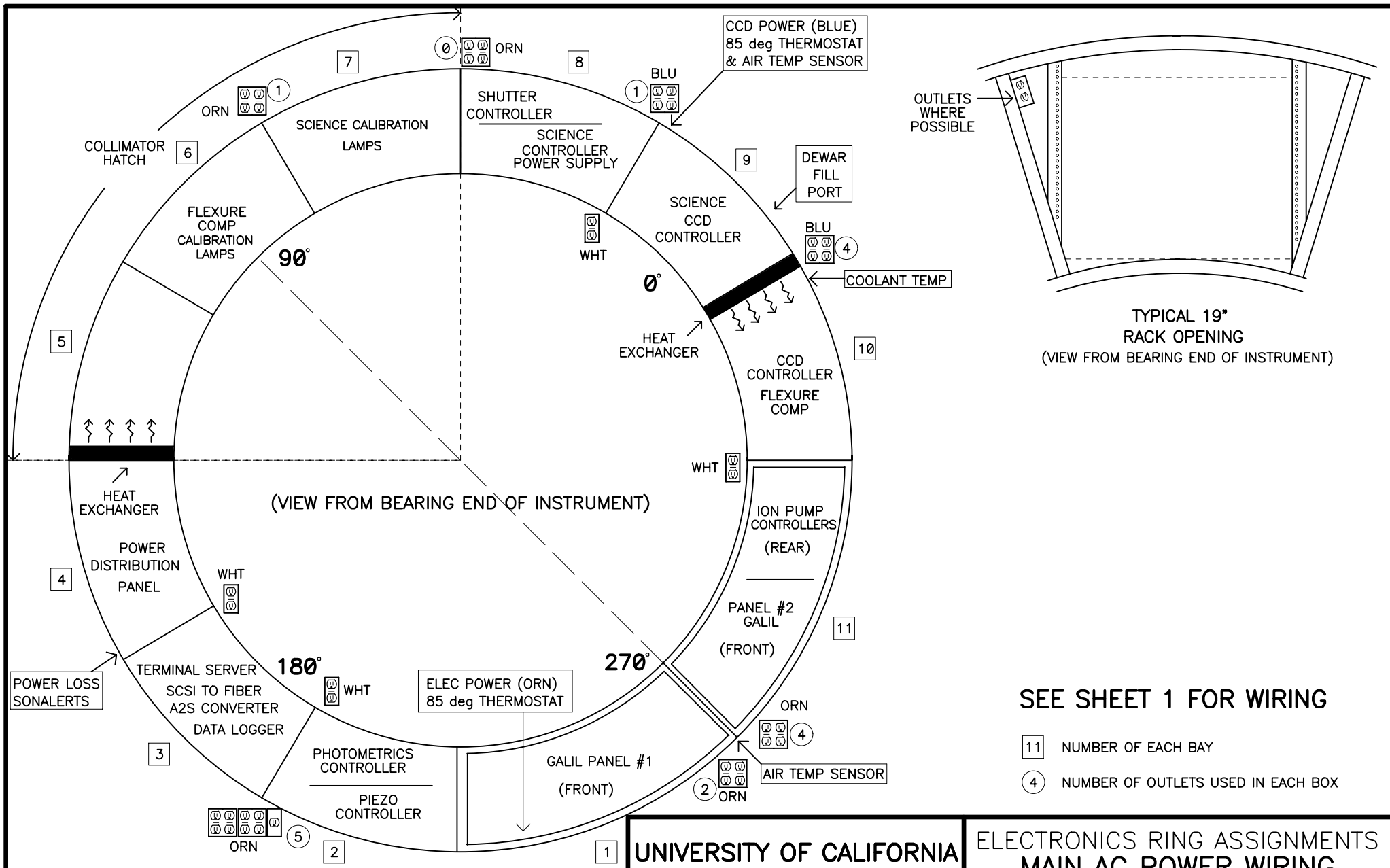
Last SN:

MODIFY DATE: 11-21-01

PATH: DEIMOS\ACPWR

REV. A

EL-3002



SEE SHEET 1 FOR WIRING

- 11 NUMBER OF EACH BAY
- 4 NUMBER OF OUTLETS USED IN EACH BOX

UNIVERSITY OF CALIFORNIA LICK OBSERVATORY		ELECTRONICS RING ASSIGNMENTS MAIN AC POWER WIRING DEIMOS SPECTROGRAPH	
DES'N BY: B. Alcott & TC	ORIGIN DATE: 05-19-95	DWG. NO.	NUM. 4 OF 7
Last SN:	MODIFY DATE: 10-30-01	EL-3002	
PATH: DEIMOS\ACPWR			

REVISION	
04-24-00	ADDED THIS SHEET
05-24-00	ADDED VIEW POINTS FOR DRAWINGS AND CHANGED FROM BEAM 1 TO SIDE A AND BEAM 2 TO SIDE B
08-24-00	ADDED OUTLETS & CHANGED BAY LABELS & DEG ROTATION tc
11-17-00	CORRECTED EQUIPMENT LAYOUT WITHIN RING
09-10-01	CORRECTED RING ORIENTATION
10-30-01	ADDED OUTLET & BAY LABELS tc

NOTES:

1) 7 PIN BENDIX CONNECTOR (SP02E-22-96P{PANEL} & SP06E-22-96-SR{CABLE}). PINOUT AS FOLLOWS:

A) - H (GRN)	} CLEAN POWER	D) - H (RED)	} DIRTY POWER	G) - REF. GND (BLK)
B) - N (ORN)		E) - N (WHT)		
C) - GND (BLU)		F) - GND (WT/B)		

2) 7 PIN AMP CPC CONNECTOR (206137-1 {PANEL} & 206136-1 {CABLE}). PINOUT AS FOLLOWS:

SERIES 3, SHELL SIZE 23, ARRANGEMENT 23-7

1) - H (ORN)	} CLEAN POWER	5) - H (BLU)	} DIRTY POWER	4) - REF. GND (BLK)
2) - N (GRN)		6) - N (WH/BK)		
3) - GND (RED)		7) - GND (WHT)		

REVISION

05-25-01 CORRECTED 'NOTE 2' PIN ASSIGNMENTS
 06-25-02 REMOVED OLDER PINOUT BLOCK THAT IS NO LONGER RELEVANT

UNIVERSITY OF CALIFORNIA
 LICK OBSERVATORY

NOTES
 MAIN AC POWER WIRING
 DEIMOS SPECTROGRAPH

DES'N BY: B. Alcott & TC

ORIGIN DATE: 05-19-95

DWG. NO.

NUM. 5 OF 7

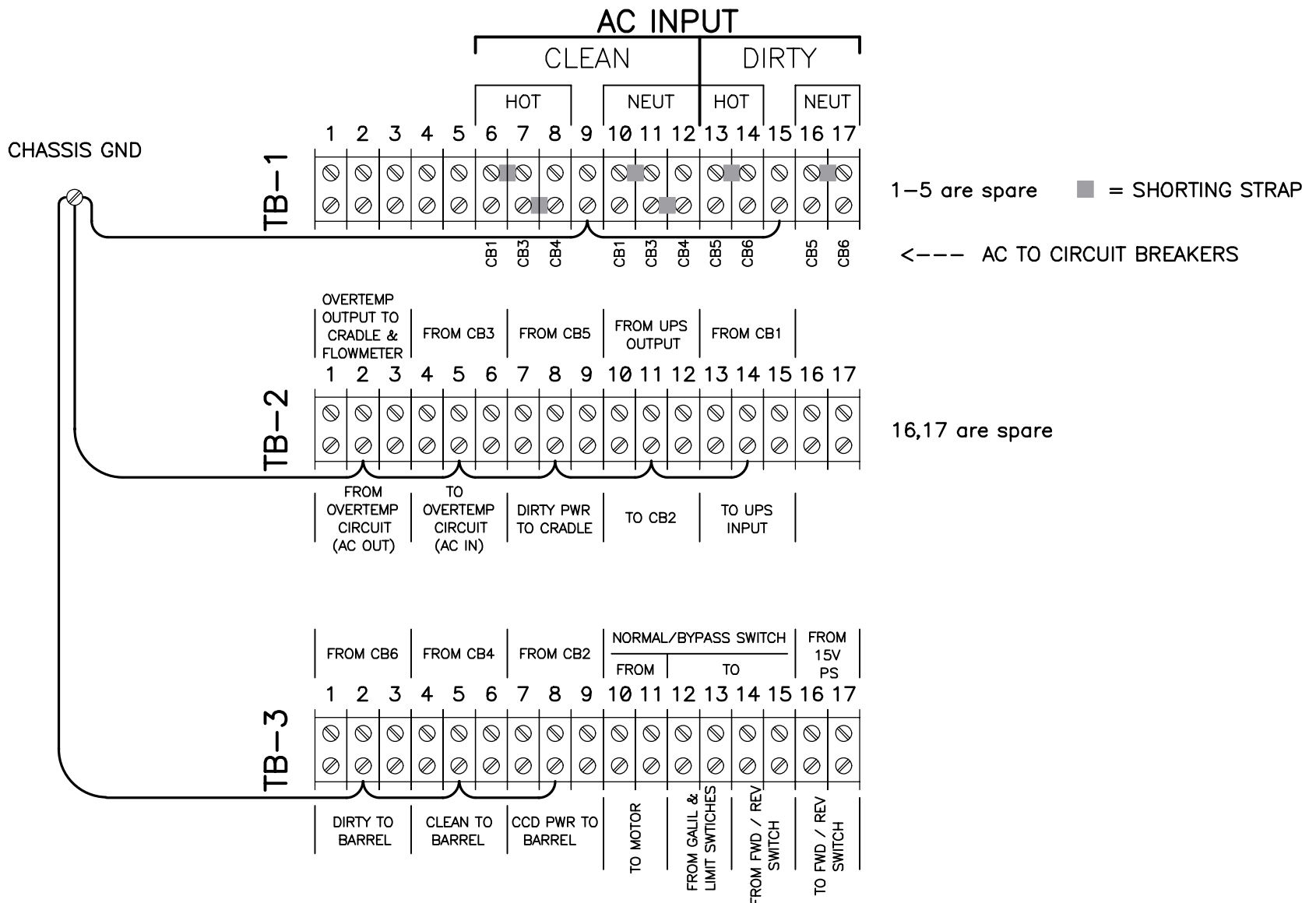
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MODIFY DATE: 06-25-02

PATH: DEIMOS\ACPWR

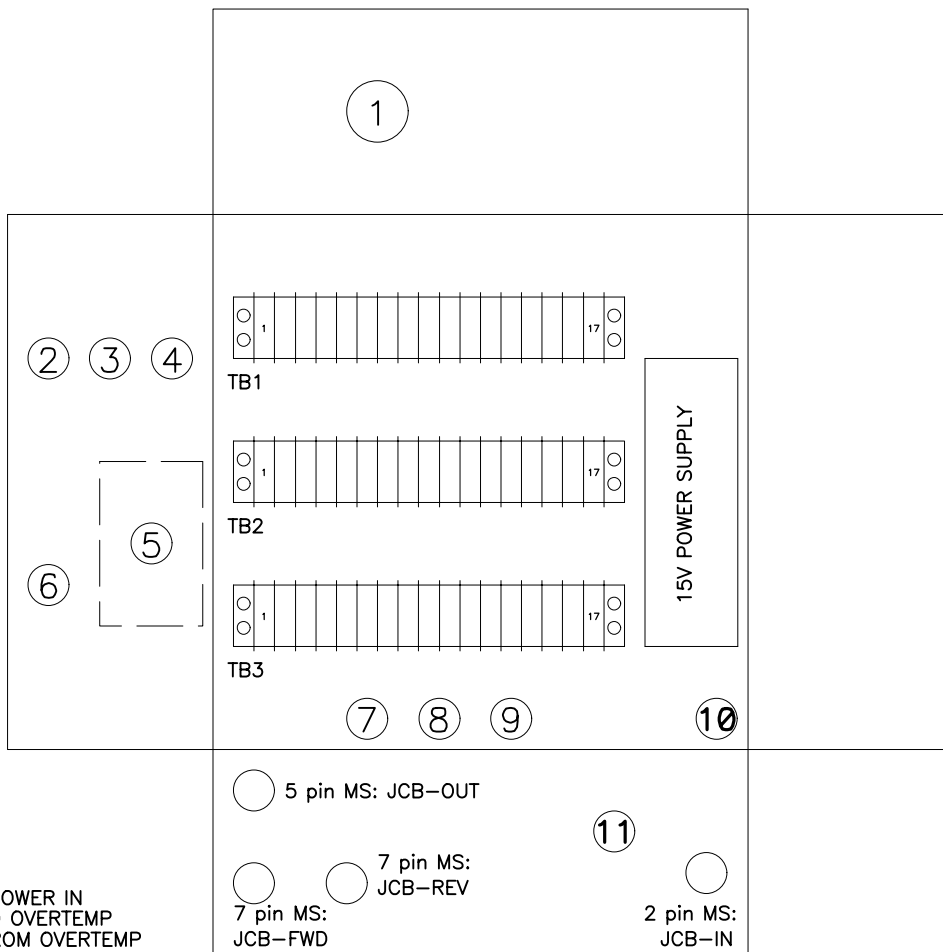
REV. A

EL-3002



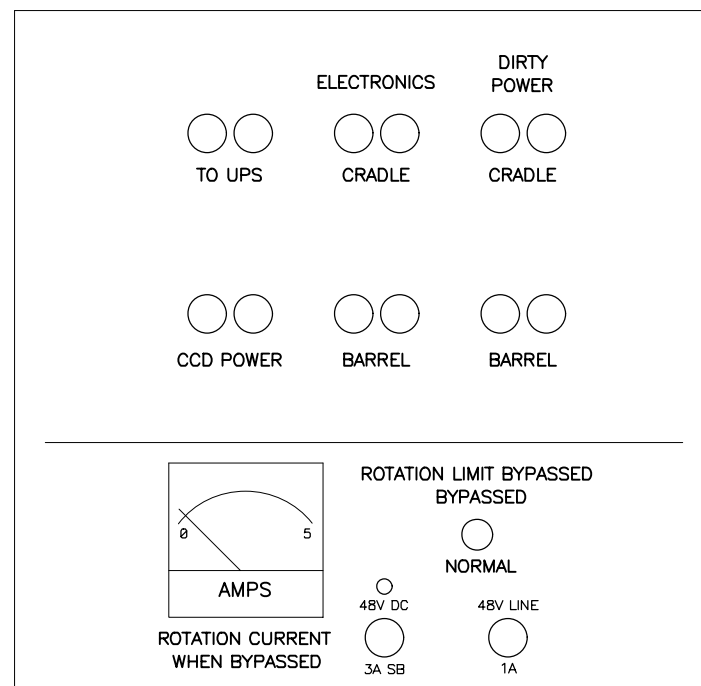
UNIVERSITY OF CALIFORNIA LICK OBSERVATORY		CIRCUIT BREAKER BOX TERMINAL BOARD LAYOUT MAIN AC POWER WIRING DEIMOS SPECTROGRAPH		
		DES'N BY: B. Alcott & TC	ORIGIN DATE: 05-19-95	DWG. NO.
REVISION		Last SN:	MODIFY DATE: 06-25-02	EL-3002
05-29-01 EXCHANGED LABELS, TOP & BOTTOM, AT TB2:1-3 06-25-02 CORRECTED LABELS FOR TB-3 4-6 AND 7-9 (LABELS WERE SWAPPED)		PATH: DEIMOS\ACPWR		

INSIDE VIEW OF BOX, SIDES FOLDED OUT



- 1 = CLEAN & DIRTY POWER IN
- 2 = CLEAN POWER TO OVERTEMP
- 3 = CLEAN POWER FROM OVERTEMP
- 4 = CLEAN POWER TO CRADLE
- 5 = TO UPS
- 6 = FROM UPS
- 7 = DIRTY POWER TO BARREL
- 8 = CLEAN POWER TO BARREL
- 9 = UPS POWER TO BARREL CCD EQUIPMENT
- 10 = DIRTY POWER TO CRADLE
- 11 = CLEAN POWER TO CRADLE FLOW METER

BREAKER PANEL



NOTES: 48V FUSES ARE REALLY FOR THE 15V DC SUPPLY
 "TO UPS" AND "CCD POWER" BREAKERS ARE THE "BLUE" CIRCUITS.
 "ELECTRONICS" CRADLE & BARREL BREAKERS ARE THE "ORANGE" CIRCUITS
 "DIRTY POWER" CRADLE & BARREL BREAKERS ARE THE "WHITE" CIRCUITS
 There is a small plastic box on the floor of the Circuit Breaker Box containing two threaded standoffs and two nuts. When these are threaded onto the standoffs in the Box cover, they provide a place to "hang" the front panel containing the circuit breakers while working on the inside of the Box.

UNIVERSITY OF CALIFORNIA
 LICK OBSERVATORY

MAIN AC POWER WIRING
 DEIMOS SPECTROGRAPH

REVISION

- 08-20-01 SPELLING CORRECTION
- 09-06-01 ADDED HOLE 11
- 01-28-02 ADDED TEXT TO NOTES ABOUT STANDOFFS.

DES'N BY: B. Alcott & TC

ORIGIN DATE: 05-19-95

DWG. NO.

NUM.7 OF 7

Last SN:

MODIFY DATE: 01-28-02

PATHDEIMOS\ACPWR

REV. A

EL-3002