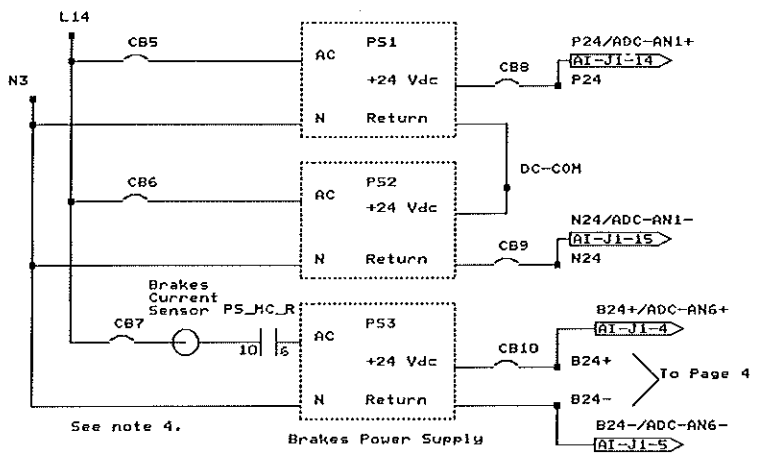
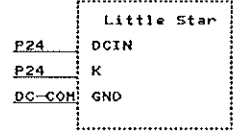
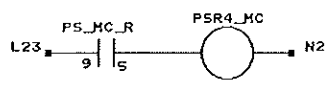
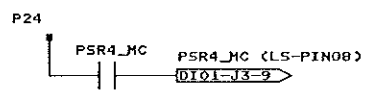
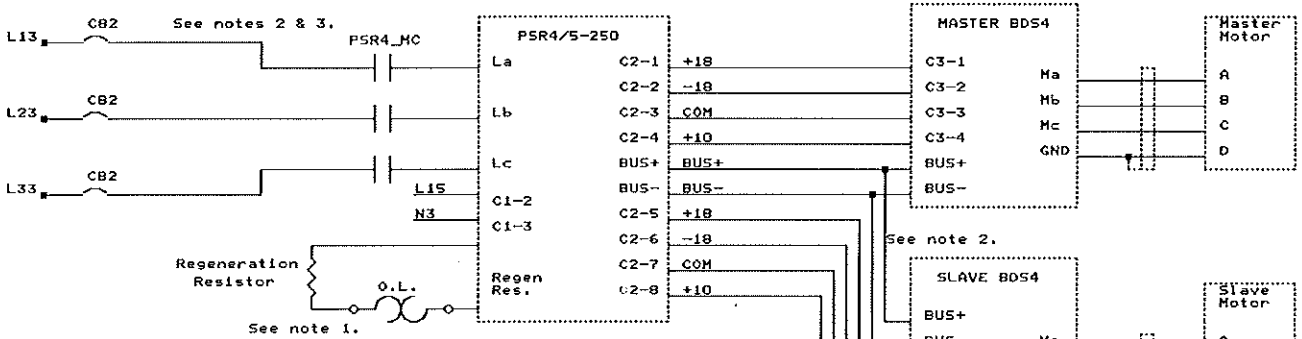
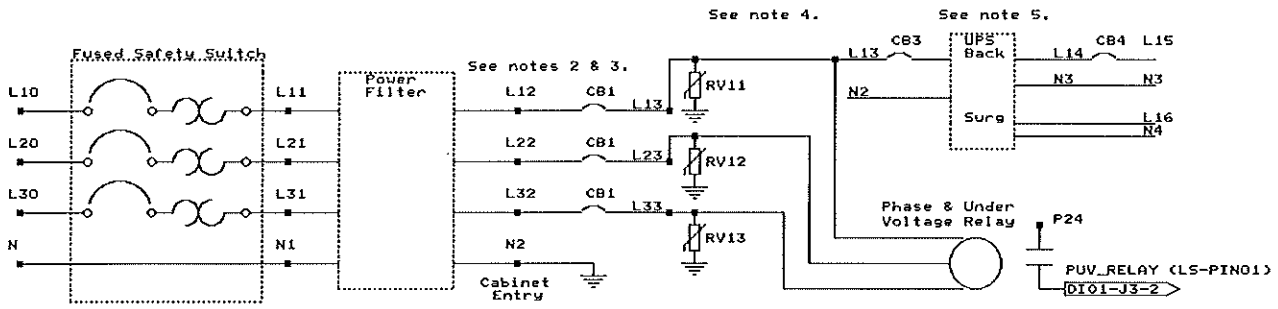


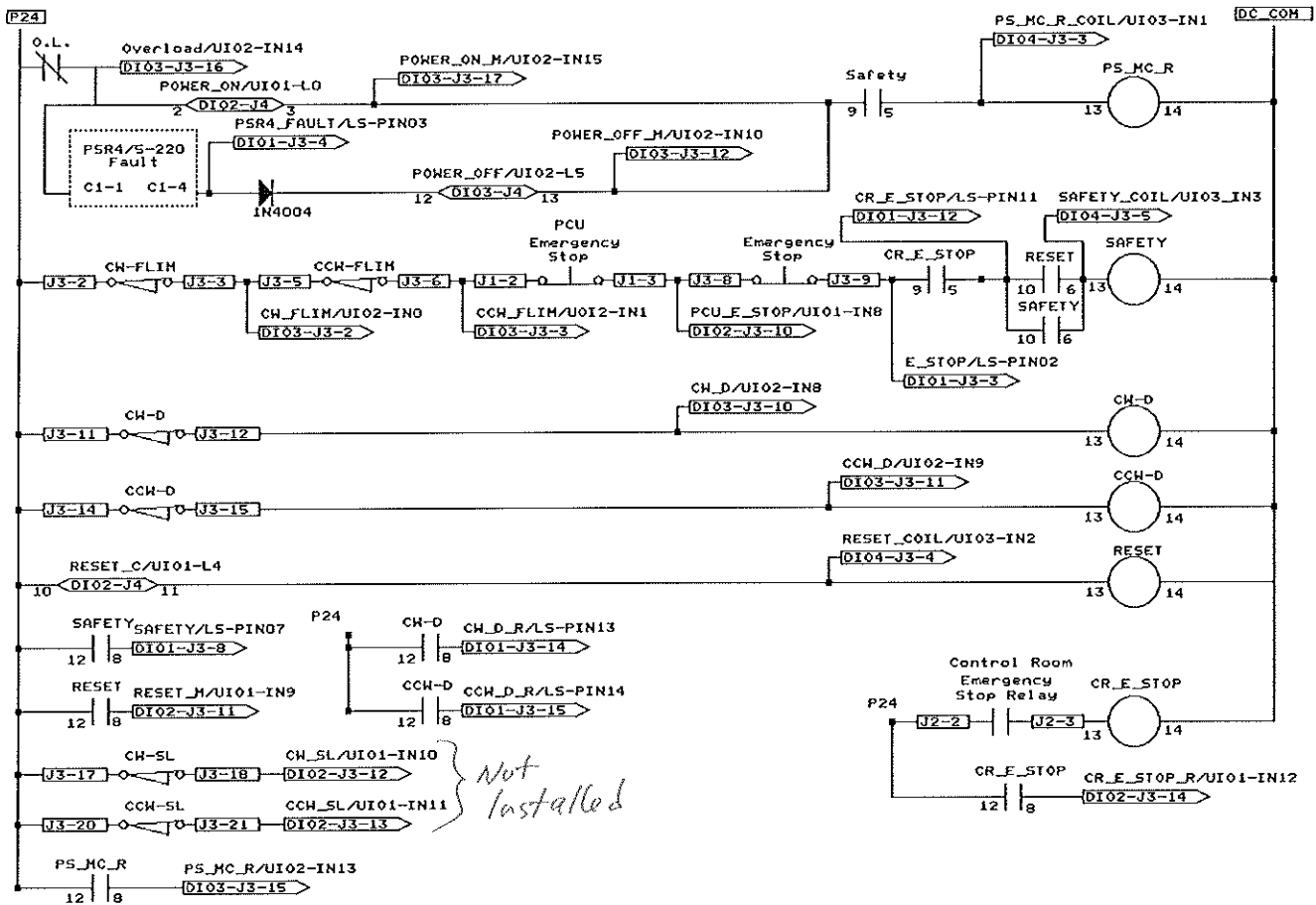
TURRET - POWER DISTRIBUTION



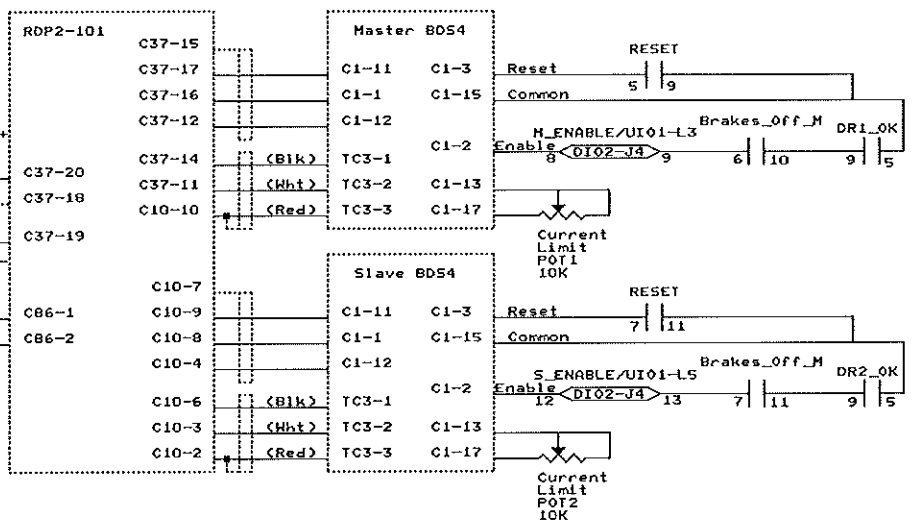
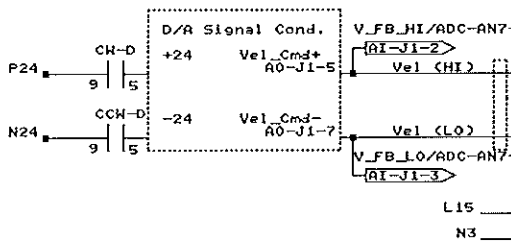
- NOTES:**
1. Use wire size AWG #8.
 2. Use wire size AWG #10.
 3. All AC lines should be twisted.
 4. Unspecified cables use AWG #18.
 5. Back refers to backed up output. Surg refers to surge protected output.

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Title TURRET - POWER DISTRIBUTION	
Size A	Document Number TURRET-
Date: October 9, 1998	Sheet 1 of 9
REV A	B

TURRET - MOTION CONTROL 1/2



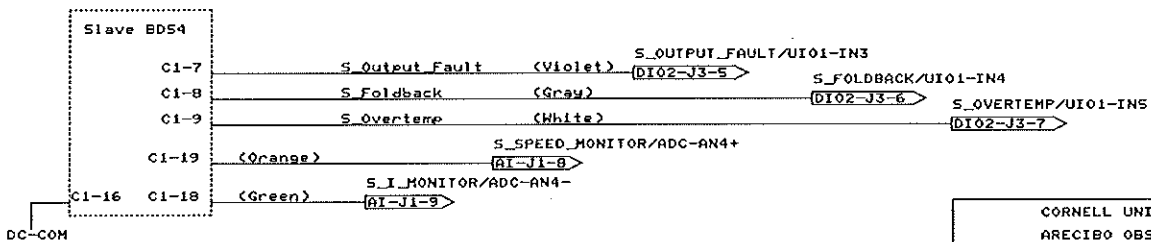
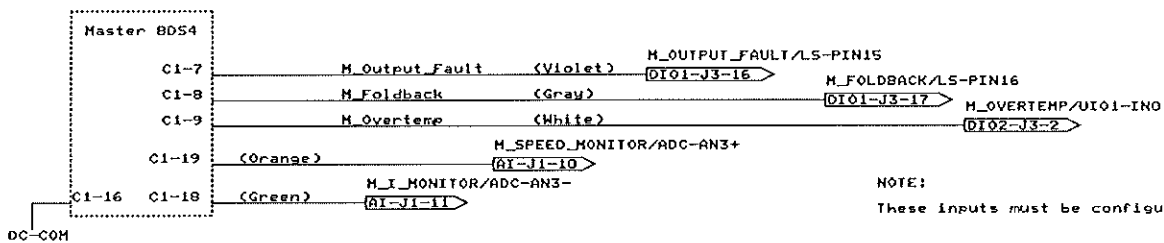
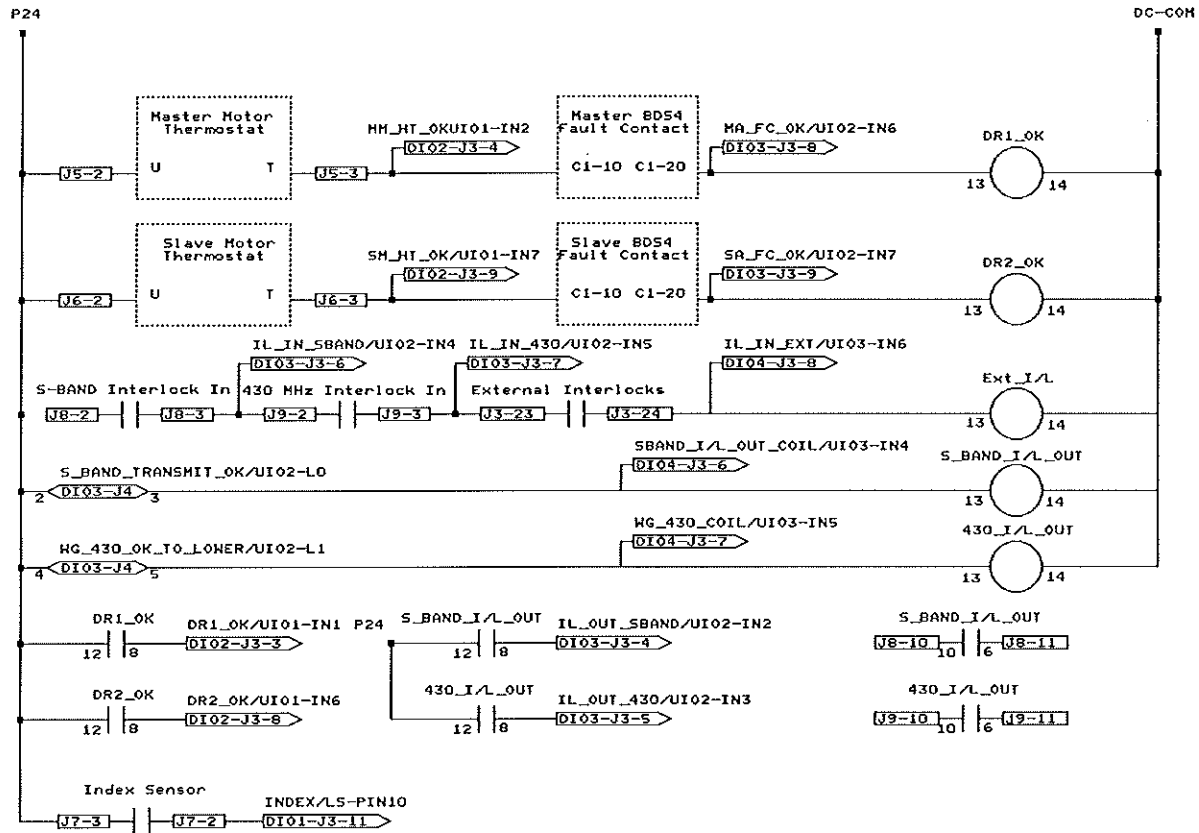
Not installed



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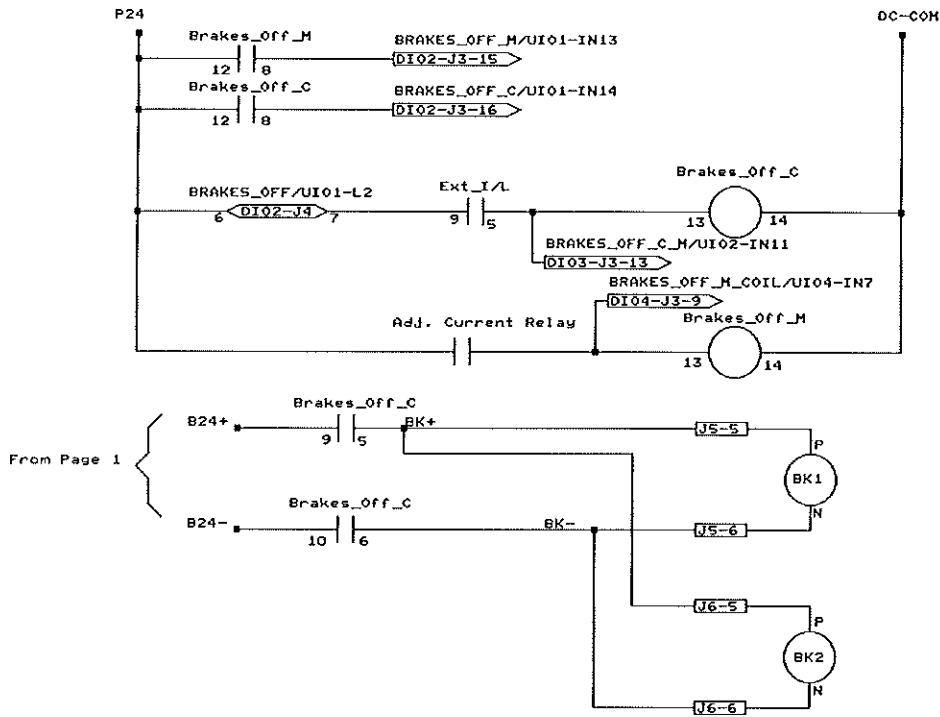
Title: TURRET - MOTION CONTROL 1/2
 Size: Document Number: REV B
 Date: October 9, 1996 Sheet 2 of 9

TURRET - MOTION CONTROL 2/2



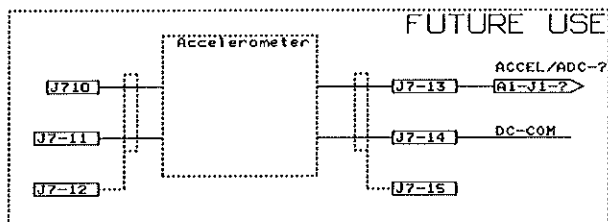
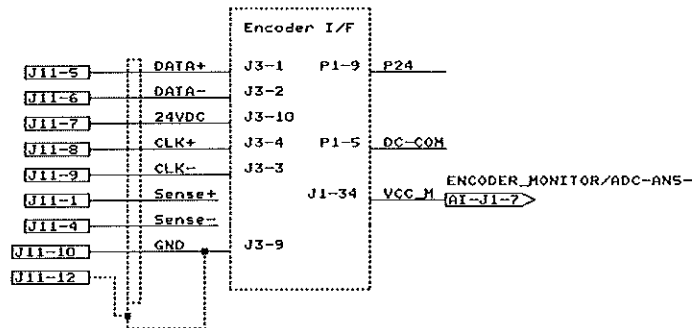
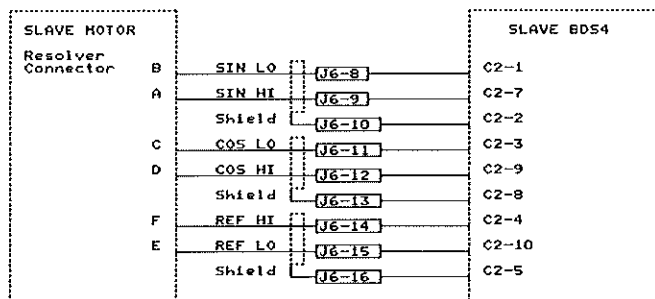
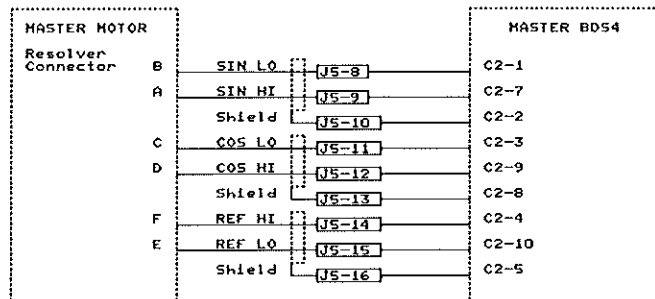
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Title	TURRET - MOTION CONTROL 2/2
Size	Document Number
A	TURRET-
Date:	May 23, 1996 Sheet 3 of 9
REV	B

TURRET - BRAKES



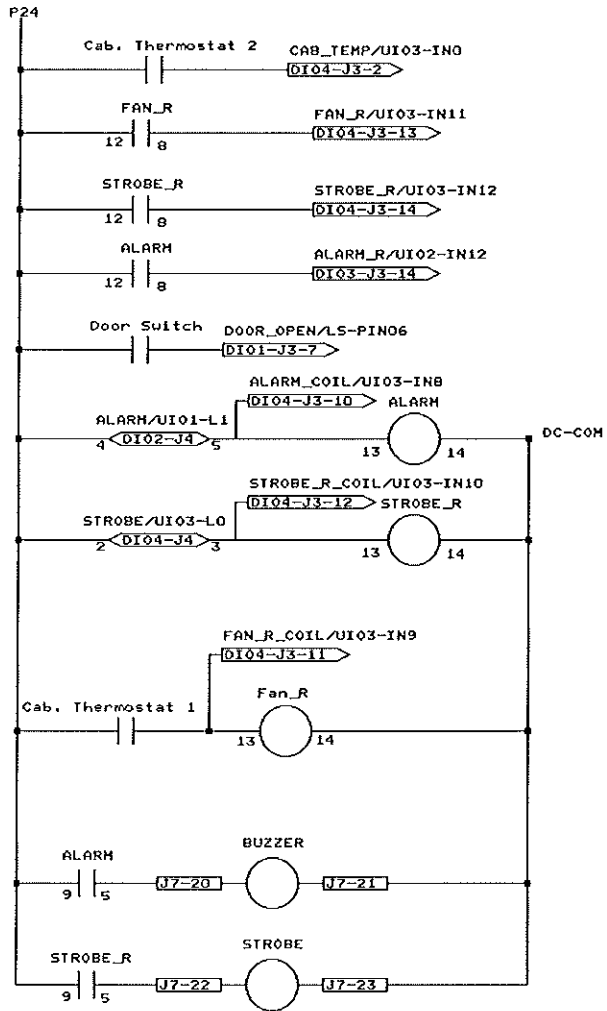
CORNELL UNIVERSITY ARECIBO OBSERVATORY P.O. BOX 995 ARECIBO, PUERTO RICO 00613 DESIGNER: Ricardo Elias		
Title		
TURRET - BRAKES		
Size Document Number		REV
A	TURRET-	B
Date:	May 17, 1996	Sheet 4 of 9

TURRET - VELOCITY CONTROL

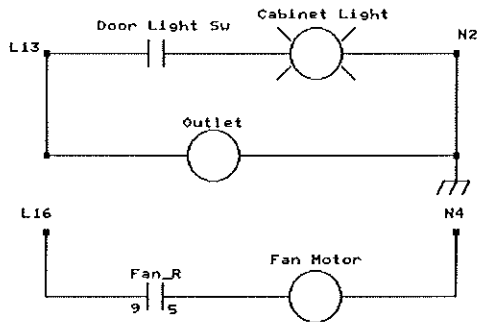
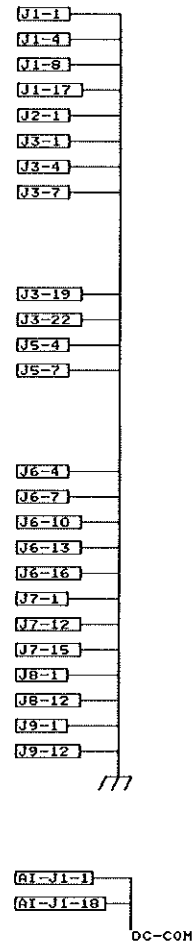


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Title TURRET - VELOCITY CONTROL		
Size	Document Number	REV
A	TURRET--	B
Date:	May 17, 1996	Sheet 5 of 9

TURRET - CABINET WIRING

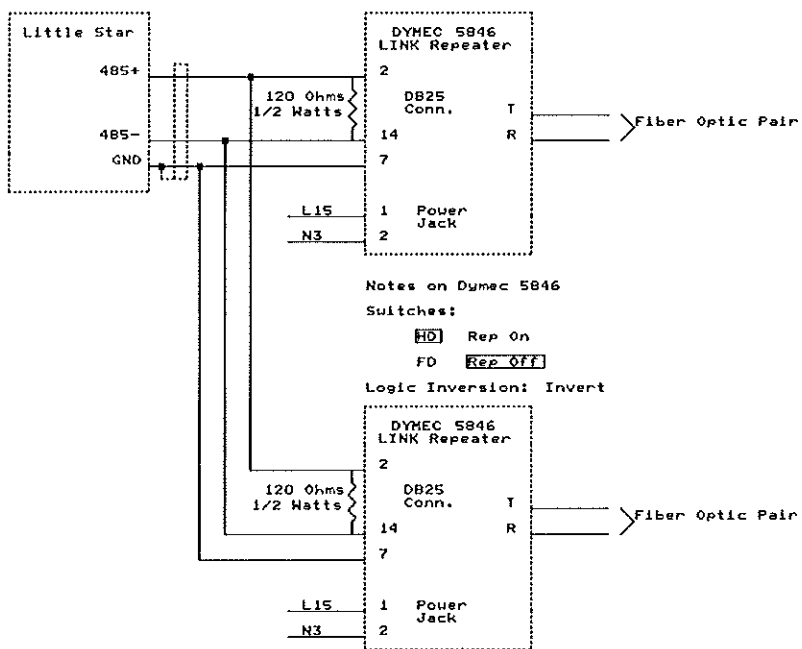
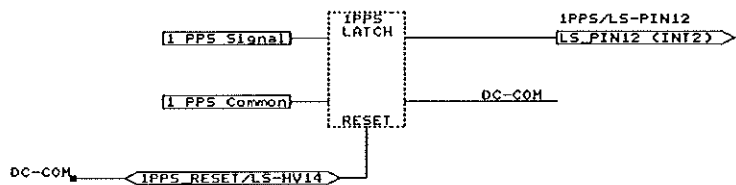


Shield Connections:



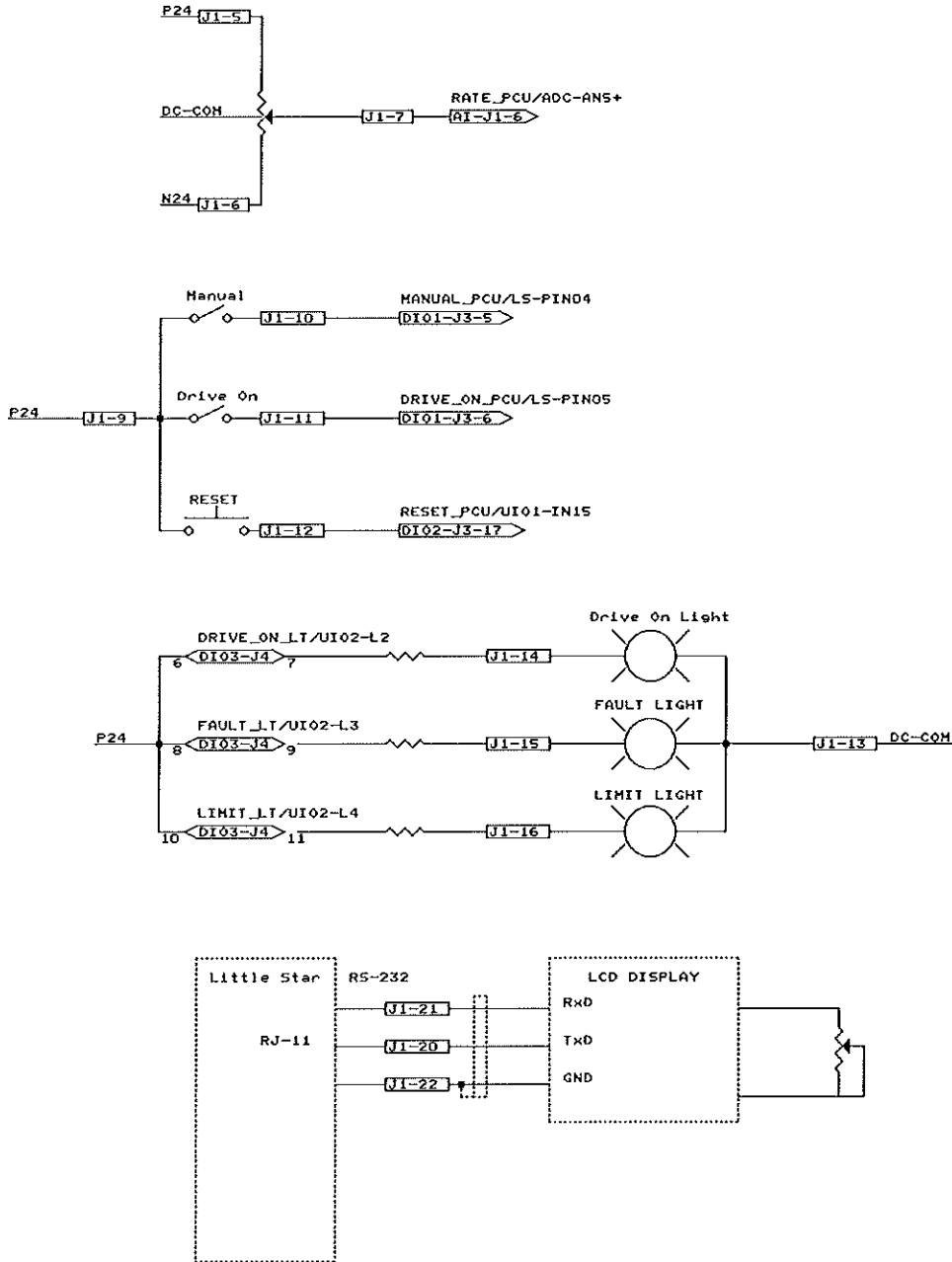
CORNELL UNIVERSITY ARECIBO OBSERVATORY P.O. BOX 995 ARECIBO, PUERTO RICO 00613 DESIGNER: Ricardo Elias		
Title TURRET - Cabinet Wiring		
Size	Document Number	REV
A	TURRET-	B
Date:	May 21, 1996	Sheet 6 of 9

TURRET - TIMING & COMMUNICATIONS



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Title		
TURRET - TIMING & COMMUNICATIONS		
Size	Document Number	REV
A	TURRET--	B
Date:	May 14, 1996	Sheet 7 of 9

TURRET - PCU

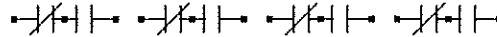


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Title		
TURRET - Portable Control Unit		
Size	Document Number	REV
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Date:	May 17, 1996	Sheet 6 of 9

TURRET - RELAY USAGE

LOGIC RELAYS

24 Vdc
Coil



Label	Function	13-14	1-9	9-5	2-10	10-6	3-11	11-7	4-12	12-8
Safety	Safety OKI	2		2		2				2
CH-D	Clockwise Dir Lim Not Reached	2		2						2
CCH-D	XClockwise Dir Lim Not Reached	2		2						2
RESET	Reset Hardware Faults (Latched)	2		2		2		2		2
DR1_OK	Drive 1 OK	3		2						3
DR2_OK	Drive 2 OK	3		2						3
BRAKES_OFF_C	Brakes Off Command	4		4		4				4
BRAKES_OFF_H	Brakes Off Monitor	4				2		2		4
S_BAND_I/L	S_BAND Interlock OK To Transmit	3				3				3
430_I/L	430 MHz WG OK To Lower	3				3				3
EXT_I/L	External Interlock OK	3		4						3
ALARM	Alarm	6		6						6
PS_MC_R	Power Supply Contactor Relay	2		1		1				2
CR_E_STOP	Control Room Emergency Stop	2		2						2
FAN_R	Fan Relay	6		6						6
STROBE_R	Strobe Light Control Relay	6		6						6

CONTACTORS

Label	Function	Phases	Ratings
PSR4_MC	Drives Power Supply	3	208 Vac, 24 Amps

BREAKERS

Label	Function	Phases	Ratings
CB1	Cabinet Power	3	208 Vac, 25 Amps
CB2	Drives Power Supply	3	208 Vac, 20 Amps
CB3	UPS Input Power	1	115 Vac, 3 Amps
CB4	UPS Output Power	1	115 Vac, 3 Amps
CB5	PS1 Input Power	1	115 Vac, 1 Amps
CB6	PS2 Input Power	1	115 Vac, 0.5 Amps
CB7	PS3 Input Power	1	115 Vac, 1 Amps
CB8	PS1 Output Power	1	24 Vdc, 3 Amps
CB9	PS2 Output Power	1	24 Vdc, 3 Amps
CB10	PS3 Output Power	1	24 Vdc, 3 Amps

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Title		TURRET - RELAY USAGE
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A	TURRET -	B
Date:	May 17, 1996	Sheet 9 of 9