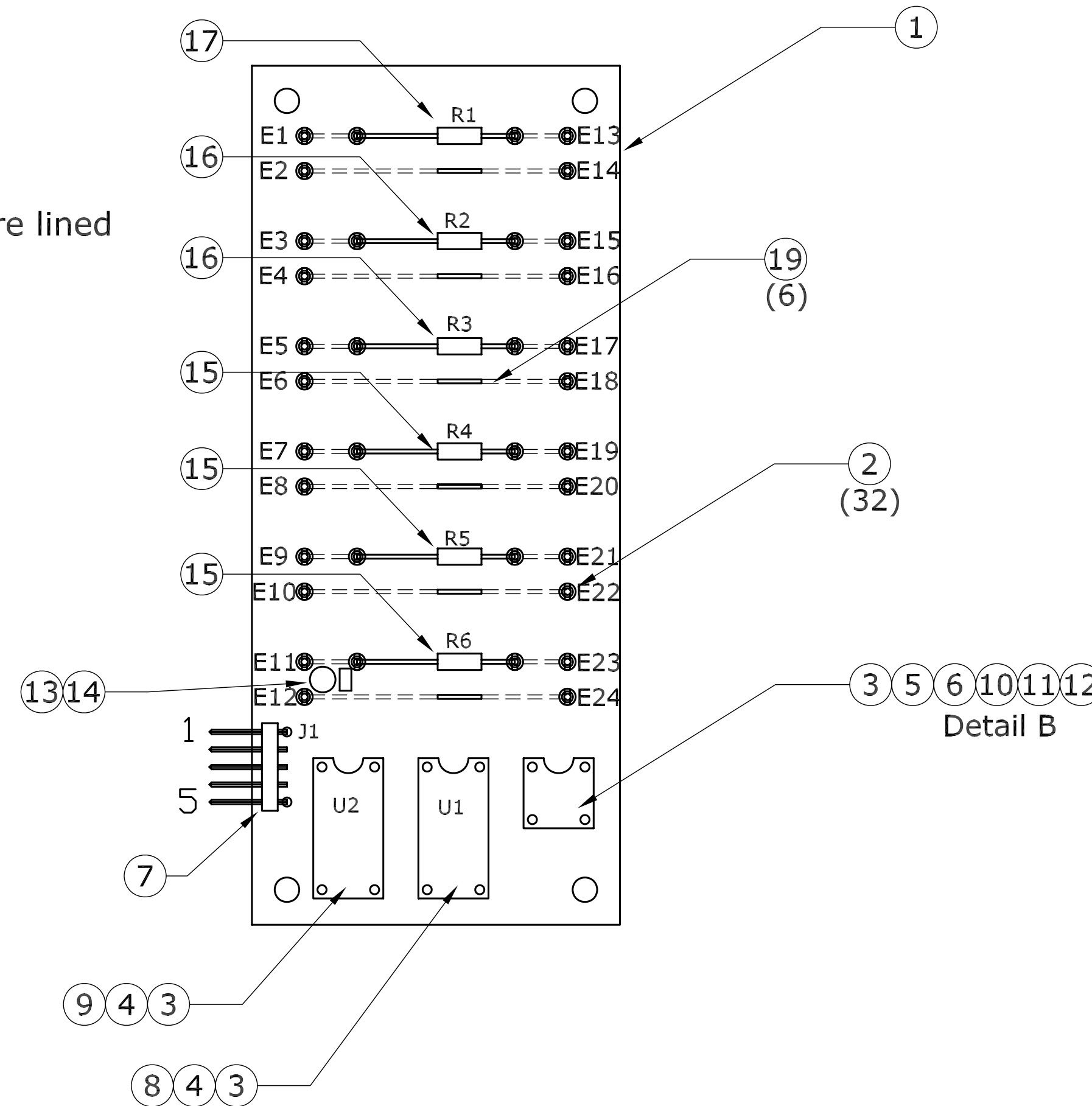


NOTES: UNLESS OTHERWISE SPECIFIED
 1. REMOVE ALL BURRS AND SHARP EDGES .030 R MAX.
 DO NOT CHAMFER EDGES OF THE HOLES
 2. MACHINED SURFACE ROUGHNESS 125
 3. MATERIAL - Vector 169P84WE

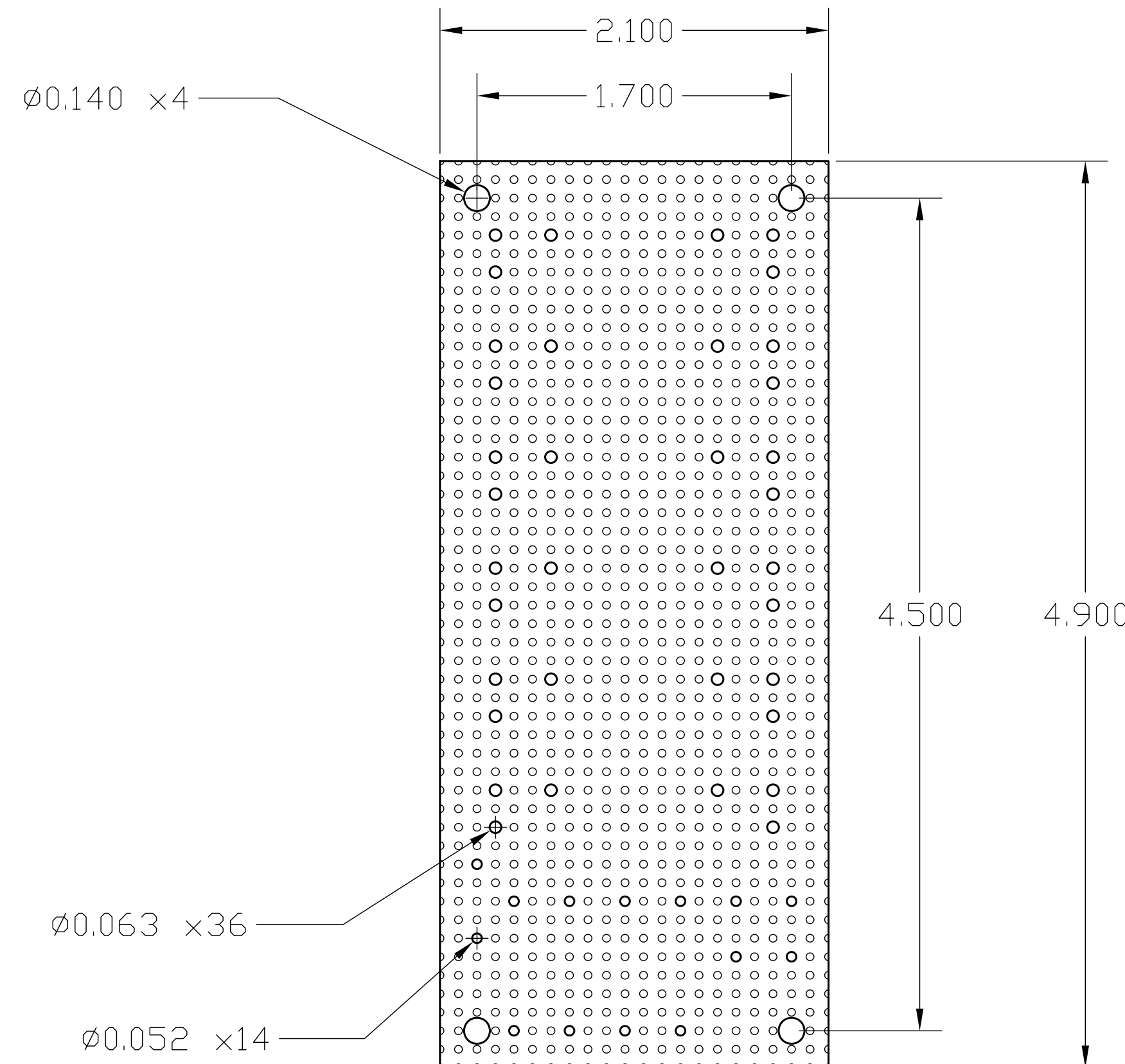
REVISIONS						
ZONE	LTR	REVISIONS	ECR	DATE	BY	APRV
	--	INITIAL RELEASE		NOV05	PJS	PJS

INSTRUCTIONS:

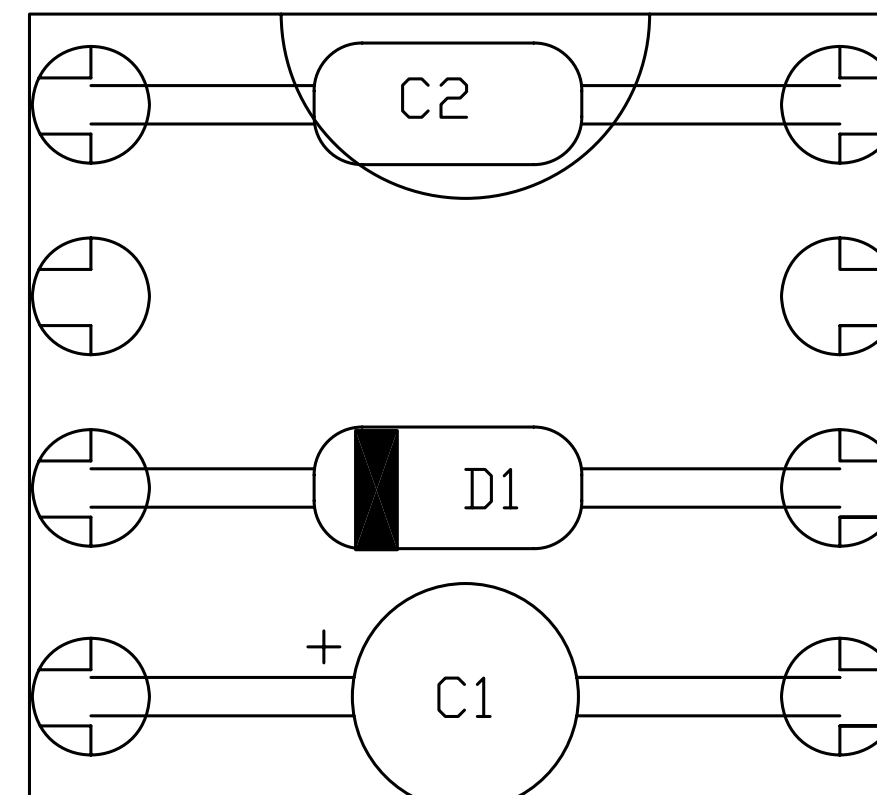
- 1) Cut proto board to size and file edges.
- 2) Drill mounting, eyelet and terminals holes (Detail A)
- 3) Swage in eyelets and cambion terminals - make sure terminal slots are lined up to accept components and hook up wire
- 4) Solder sockets and J1 in place at eyelet
- 5) Build up discrete carrier - see Detail B
- 6) Cut bus wire to approximately 3", form a loop through the board bending long leads on bottom toward cambion terminals and solder in place. See photo if necessary.
- 7) Wire connections using document MNSN-EL-05-0003 Pg 2 A1 Power up Delay/LED Resistor board diagram.



Detail A



Detail B



ITEM	QTY	BINLOC	PART NUMBER	MFR	DESCRIPTION
1	1		169P84WE	Vector Electronics	proto brd, FR4 8.5x17" .062" thk .042 dia holes
2	36	N171D	140-1785-02-0100	Cambion	Terminal, swage split tongue .063 dia hole
3	14	N069	CE-33B	CIRCON	Eyelet, .052 dia hole fits .025 sq post
4	2	M007A	70016-21	SCANBE	Socket, 16 pin WW
5	1	M001A	CA-08SE-102WW	CIR ASSY	Socket, 8 pin WW
6	1	N115	608-CGI	AUGAT	Adaptor, kludge 8 pin dip type
7	1		4-103148-0	Tyco/Amp	Header, RA 1 x 5 pos. (break to size)
8	1	S080A	MC14490P	MOTOROLA	IC, CMOS HEX bounce eliminator
9	1		MC14049BCP	MOTOROLA	IC, CMOS hex inverter
10	1	P106A	1N914	Fairchild	Diode, DO-35 hi conductance
11	1	D108A	199D226X9025DA1	SPRAGUE/VISHAY	Cap, TANT 22uF 25V RADIAL
12	1		RPEE41H102M2P1A03B	Murata Electronics	Cap, Cerc 1000pF 50V 20% Z5U Radial
13	1	D045A	RPE110X7R103K100V	MURATA ERIE	Cap, Cerc .01uF
14	1	D109A	TAP 476K025 SCS	AVX	Cap, Tant 47uF 25V Radial
15	3	C075C	RCR-20G 101J	Allen Bradley	Resistor, comp 100 ohm 1/2W axial
16	2	C100C	RCR-20G 102J	Allen Bradley	Resistor, comp 1K ohm 1/2W axial
17	1	C110C	RCR-20G 272J	Allen Bradley	Resistor, comp 2.7K ohm 1/2W axial
18	A/R				Wirewrap wire
19	A/R				Bus wire 18-20 awg

QTY. REQ.	PART OR IDENTIFYING NO.	DESCRIPTION	MATERIAL/SPECIFICATION	IDENT.	ITEM NO.
TOLERANCES UNLESS OTHERWISE NOTED .XX ±.03 ANGULAR ±.5° .XXX ±.010		 THIRD ANGLE PROJECTION			
DO NOT SCALE DRAWING		NATIONAL SOLAR OBSERVATORY <small>OPERATED BY THE ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY UNDER COOPERATIVE AGREEMENT WITH NATIONAL SCIENCE FOUNDATION</small>		USED ON	REF
NEXT ASSEMBLY MNSN-EL-02-0007		DETAIL POWER SUPPLY DELAY & RESISTOR BOARD		MONSOON	REV --
SCALE: 1.5:1	DESIGNED BY D.DRYDEN	DATE MAR05	CHECKED BY	DATE	DWG NO MNSN-EL-02-1016
DWG PRODUCED USING AUTOCAD LT2000	DRAWN BY D.STOVER	DATE JUL06	APPROVED BY	DATE	RELEASED
					SHEET 1 OF 1