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PROPRIETARY NOTICE

THIS DOCUMENT AND THE INFORMATION DISCLOSED HEREIN ARE PROPRIETARY DATA OF HONEYWELL INC. NEITHER THIS DOCUMENT NOR THE INFORMATION CONTAINED HEREIN SHALL BE REPRODUCED, USED, OR DISCLOSED TO OTHERS WITHOUT THE WRITTEN AUTHORIZATION OF HONEYWELL INC.

NOTICE

FREEDOM OF INFORMATION ACT (5 USC 552) AND DISCLOSURE OF CONFIDENTIAL INFORMATION GENERALLY (18 USC 1905)

THIS DOCUMENT IS BEING FURNISHED IN CONFIDENCE BY HONEYWELL INC. THE INFORMATION DISCLOSED HEREIN FALLS WITHIN EXEMPTION (b) (4) OF 5 USC 552 AND THE PROHIBITIONS OF 18 USC 1905.

NOTES:

1. ASSEMBLE AND SOLDER PER ITEM 701. EXCEPT:
A. SOLDER PASTE USED ON SIDE B MUST BE SN62PB36AG2.
B. SOLDER USED FOR TOUCHUP AND REPAIR ON SIDE B MAY BE SN63PB37 EXCEPT FOR FL1-FL5 AND Y1 WHICH REQUIRE SN62PB36AG2.

2. THIS ASSEMBLY INCLUDES COMPONENTS WHICH ARE SUBJECT TO DAMAGE BY ELECTROSTATIC CHARGES; THEREFORE, ALL COMPONENTS SHALL BE HANDLED IN ACCORDANCE WITH GUIDELINES FOR ELECTROSTATIC DISCHARGE CONTROL.

3. MAXIMUM COMPONENT HEIGHT:
SIDE A: CONDUCTIVE .225, NONCONDUCTIVE OR GROUNDED CASE .275, EXCEPT Y303 SHALL BE .295 MAX HIGH.
SIDE B: CONDUCTIVE .315, NONCONDUCTIVE OR GROUNDED CONDUCTIVE CASE .365.

4. COMPONENT LEAD PROTRUSION SHALL BE .090 MAXIMUM ON BOTH SIDES, EXCEPT LEAD PROTRUSION ON J1 SHALL BE .030 MAXIMUM ON SIDE A, BARE COPPER IS PERMISSIBLE ON TRIMMED SURFACES.

5. USE ITEM 703 TO FORM W1 & W2. PRE-CUT LENGTH OF W1 & W2 SHALL BE .200 ±.025. ATTACH FROM FL5 TO PWB AS SHOWN USING ITEM 704.

6. MOUNT FL5 AS FOLLOWS: ALIGN FRONT EDGE OF FL5 FLUSH TO WITHIN .015 OF PWB PAD EDGE AS SHOWN. SIMULTANEOUSLY CENTER PADS ON FL5 WITH ASSOCIATED PADS ON PWB.

7. J2 THRU J9 MUST BE FLUSH TO WITHIN .005 OF SIDE B OF THE PWB. J10 AND J11 BASE SHALL BE FLUSH TO WITHIN .005 OF ITEM 5. ITEM 5 SHALL BE FLUSH TO WITHIN .005 OF PWB (ITEM 1) ON SIDE B.

8. SMOOTH CONTACT AT THE INTERFACE OF SIDE B OF THE PWB (ITEM 1) AND THE HOUSING (ITEM 2) IS CRITICAL. THEREFORE, SIDE B OF THE PWB SHALL HAVE NO SOLDER PROTRUSIONS OR LUMPS GREATER THAN .005 IN HEIGHT ABOVE THE NORMAL PLATED SURFACE.

9. SHADED COMPONENTS ARE NOT INSTALLED.

10. MOUNT FRONT AND SIDE EDGES OF Y1 FLUSH TO WITHIN .015 OF PWB PAD EDGE AS SHOWN. REFER TO 7019543 FOR SOLDERING INFORMATION.

11. J1 MUST BE FLUSH TO WITHIN .005 OF PWB (ITEM 1).

12. REMOVE J1 PIN 51 AND ORIENT J1 CENTER POLARITY AS SHOWN.

13. RESISTORS R668, R669, R676 AND R701 ARE SPACERS FOR Y303 AND MAY MAKE CONTACT WITH THE METAL CAN.

14. ORIENT ALL 7022905 CAPACITORS VERTICALLY, WITH SMALL SURFACE DOWN AS SHOWN IN SECTION G-G.

15. APPLY CONFORMAL COAT PER ITEM 702 TO SIDE A OF CCA EXCEPT CROSSHATCHED AREAS SHOWN.

16. INSTALL COMPONENTS PER TABLE I, LEFT OR RIGHT, TOP OR BOTTOM, AS VIEWED FROM INDICATED SIDE.

17. INSTALL BUS WIRES PER TABLE II, LEFT OR RIGHT, TOP OR BOTTOM AS VIEWED FROM INDICATED SIDE.

18. INSTALL CONDUCTOR NO. 601 PRIOR TO INSTALLING 06.

19. NOTE TO MANUFACTURING AND TEST ENGINEERING:
TABLE III IS A CROSS REFERENCE OF COMPONENTS SHOWN ON CCA TO CAD DATA BASE FOR PWB.

20. TORQUE ITEM 4 TO 7IN-LBS ± .5IN-LBS.

21. IT IS PERMISSIBLE TO DEPOPULATE ANY OF THE FOLLOWING REFERENCE DESIGNATORS TO OPTIMIZE PERFORMANCE DURING ALIGNMENT:
C20 C88 C164 C343 C516 C626
C38 C112 C186 C411 C535
C69 C136 C340 C433 C606

TABLE I

COMPONENT INSTALLATION

COMPONENT		TO CIRCUIT POINT	PWB SIDE	SLVG ITEM NO.
REF DES	PIN			
R740	1	R373-R	A	
	2	C392-R(VIA)		
R741	1	R646-L	A	
	2	C598-R		
CR304	1	R373-R	A	
	2	NO CONNECTION		
	3	R381-R		
CR321	1	R646-L	A	
	2	NO CONNECTION		
	3	R658-R		
Q3	1	C103-R	B	
	2	GND		
	3	GND		
	4	R60-T		
Q6	1	C158-B	B	
	2	R126-B		
	3	PAD ABOVE R134		
	4	C178-T		
R382	1	UNUSED PAD CONNECTED TO R367-L	A	
	2	R373-L		
R638	1	UNUSED PAD CONNECTED TO C631-R	A	
	2	R646-R		
C672	1	U335-13	A	
	2	U335-14		
C206	1	C6-L (VIA)	B	
	2	VIA "A"		
C207	1	C42-L (VIA)	B	
	2	VIA "B"		
C208	1	C47-L (VIA)	B	
	2	VIA "C"		
C209	1	C86-L (VIA)	B	
	2	VIA "D"		
C210	1	C90-L (VIA)	B	
	2	VIA "E"		
C211	1	C131-L (VIA)	B	
	2	VIA "F"		
C212	1	C139-L (VIA)	B	
	2	VIA "G"		
C213	1	C167-L (VIA)	B	
	2	VIA "H"		
C214	1	U4-1	B	
	2	GND		
C215	1	JUNCTION C36, R37	B	
	2	U4-4 (GND)		

TABLE III

19

SHOWN ON CCA	CAD DATA BASE
R742	C312
R743	C425
R744	C508
R745	C597
CR304	R382
R382	CR304
CR321	R741
R741	CR321

TABLE II

BUSWIRE DATA

CONDUCTOR		FROM CIRCUIT POINT	TO CIRCUIT POINT	PWB SIDE
COND. NO.	ITEM NO.			
601	706	R126-B	PAD ABOVE R134	B
602	707	L324-RIGHT	R433-B	A

TABLE I

COMPONENT INSTALLATION

COMPONENT		TO CIRCUIT POINT	PWB SIDE	SLVG ITEM NO.
REF DES	PIN			
R740	1	R373-R	A	
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	2	C598-R		
CR304	1	R373-R	A	
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	3	R381-R		
CR321	1	R646-L	A	
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	3	R658-R		
Q3	1	C103-R	B	
	2	GND		
	3	GND		
	4	R60-T		
Q6	1	C158-B	B	
	2	R126-B		
	3	PAD ABOVE R134		
	4	C178-T		
R382	1	UNUSED PAD CONNECTED TO R367-L	A	
	2	R373-L		
R638	1	UNUSED PAD CONNECTED TO C631-R	A	
	2	R646-R		
C672	1	U335-13	A	
	2	U335-14		
C206	1	C6-L (VIA)	B	
	2	VIA "A"		
C207	1	C42-L (VIA)	B	
	2	VIA "B"		
C208	1	C47-L (VIA)	B	
	2	VIA "C"		
C209	1	C86-L (VIA)	B	
	2	VIA "D"		
C210	1	C90-L (VIA)	B	
	2	VIA "E"		
C211	1	C131-L (VIA)	B	
	2	VIA "F"		
C212	1	C139-L (VIA)	B	
	2	VIA "G"		
C213	1	C167-L (VIA)	B	
	2	VIA "H"		
C214	1	U4-1	B	
	2	GND		
C215	1	JUNCTION C36, R37	B	
	2	U4-4 (GND)		

TABLE III

19

SHOWN ON CCA	CAD DATA BASE
R742	C312
R743	C425
R744	C508
R745	C597
CR304	R382
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6. MOUNT FL5 AS FOLLOWS: ALIGN FRONT EDGE OF FL5 FLUSH TO WITHIN .015 OF PWB PAD EDGE AS SHOWN. SIMULTANEOUSLY CENTER PADS ON FL5 WITH ASSOCIATED PADS ON PWB.

7. J2 THRU J9 MUST BE FLUSH TO WITHIN .005 OF SIDE B OF THE PWB. J10 AND J11 BASE SHALL BE FLUSH TO WITHIN .005 OF ITEM 5. ITEM 5 SHALL BE FLUSH TO WITHIN .005 OF PWB (ITEM 1) ON SIDE B.

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17. INSTALL BUS WIRES PER TABLE II, LEFT OR RIGHT, TOP OR BOTTOM AS VIEWED FROM INDICATED SIDE.

18. INSTALL CONDUCTOR NO. 601 PRIOR TO INSTALLING 06.

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C20 C88 C164 C343 C516 C626
C38 C112 C186 C411 C535
C69 C136 C340 C433 C606

REV STATUS OF PARTS LIST SHALL BE SAME AS
BASIC DRAWING NUMBER
SEE SEPARATE PARTS LISTS

OPERATIONAL NOTE

SIMILAR ASSEMBLY

Honeywell

COMMERCIAL FLIGHT
SYSTEMS GROUP
PHOENIX, ARIZONA

CIRCUIT CARD ASSEMBLY-
RCVR I/O AS

SIZE CASE CODE
E55939

DRAWING NO.
7517945-903

REV
K

CONTRACT
RT-950/1

DRAWN BY
R. RICHARDS

DATE
06AUG97

DESIGNED BY
ALLEN / ARNTZ

DATE
06AUG97

CHECKED BY
E. THIESSEN

DATE
06AUG97

APVD FOR MFG
P. MILLISAP

DATE
06AUG97

APVD FOR DE
M. SMITH

DATE
06AUG97

APVD FOR ENGRG
M. SMITH

DATE
06AUG97

APVD FOR
DATE

INTERPRET DIMENSIONS AND
TOLERANCES PER ASME Y14.5M-1994

MATERIAL
PROCESS, FINISH, SEE 00.40.

ITEM CODE
(PER E8069384) 3

THIRD ANGLE
PROJECTION

DWG
CLASS

FIRST USED ON
7517900

APPLICATION

7517900

7517900

USED ON (SYS)

NOV 04 2002

jolson 11:40:17

2331-040 (ASME Y14.5M-1994) HONEYWELL INC.
(REV 3-97)

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NOV 04 2002 jolson 11:40:17

COMPUTER GENERATED

7517945-903

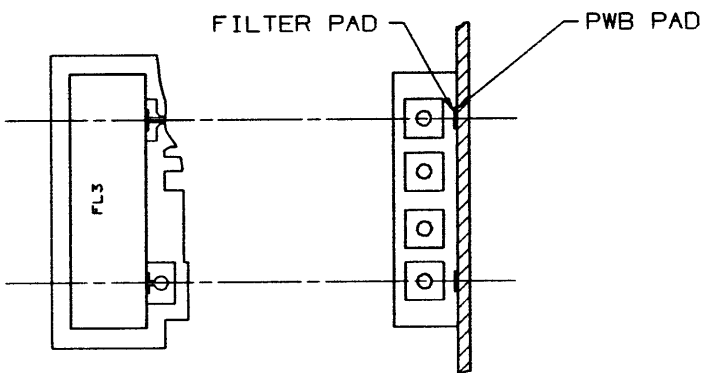
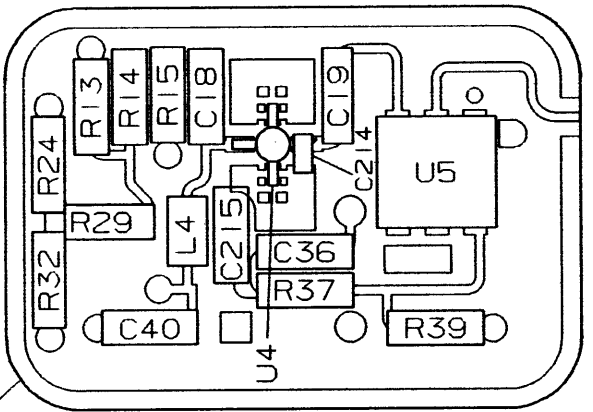
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REVISIONS				DATE	APPROVED
ZONE	REV	DESCRIPTION			
A	1	UDOT VIEW: ADD C214, R52 AND R58 WERE NOT INSTALLED.	96236 (M)	7/20/93	M. SMITH
D	1	UDOT VIEW: ADD C215, R23, R62, R89 AND R132 WERE NOT INSTALLED.	78157 (U)	7/20/93	R. RICHARDS

.015 MAX
(Y1)
.015 MAX
ALIGN FRONT AND SIDE
EDGE OF Y1 FLUSH TO
WITHIN .015 OF PWB
PAD EDGE.

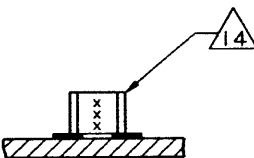
DETAIL E

J10 AND J11
ITEM 2 REMOVED
VIEW F-F



CENTER FILTER AND PWB PADS
FL1, FL2, FL3 AND FL4

SECTION H-H
SCALE: NONE



SECTION G-G
SCALE: NONE

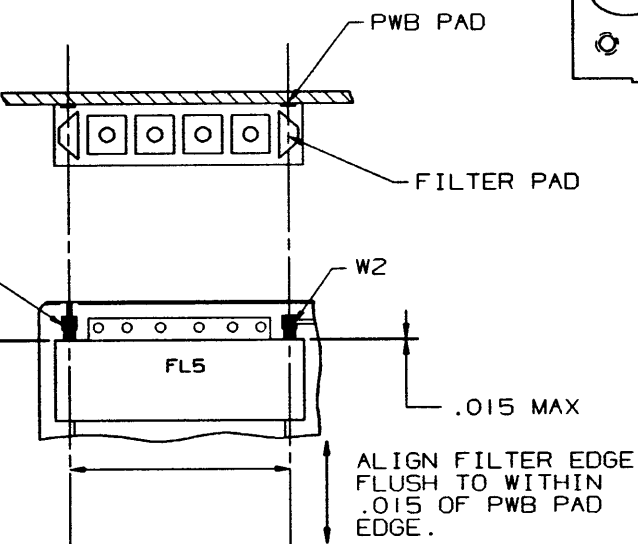
SEE DETAIL C

SEE DETAIL E

ATTACH W1 AND W2 FROM FL5 TO PWB AS SHOWN.
SOLDERING TO FL5 SHOULD BE IN SHADED AREA
ONLY. LOWER HALF OF SHADED AREA IS PREFERABLE.

FL5
SECTION D-D
ROTATED 90° CW

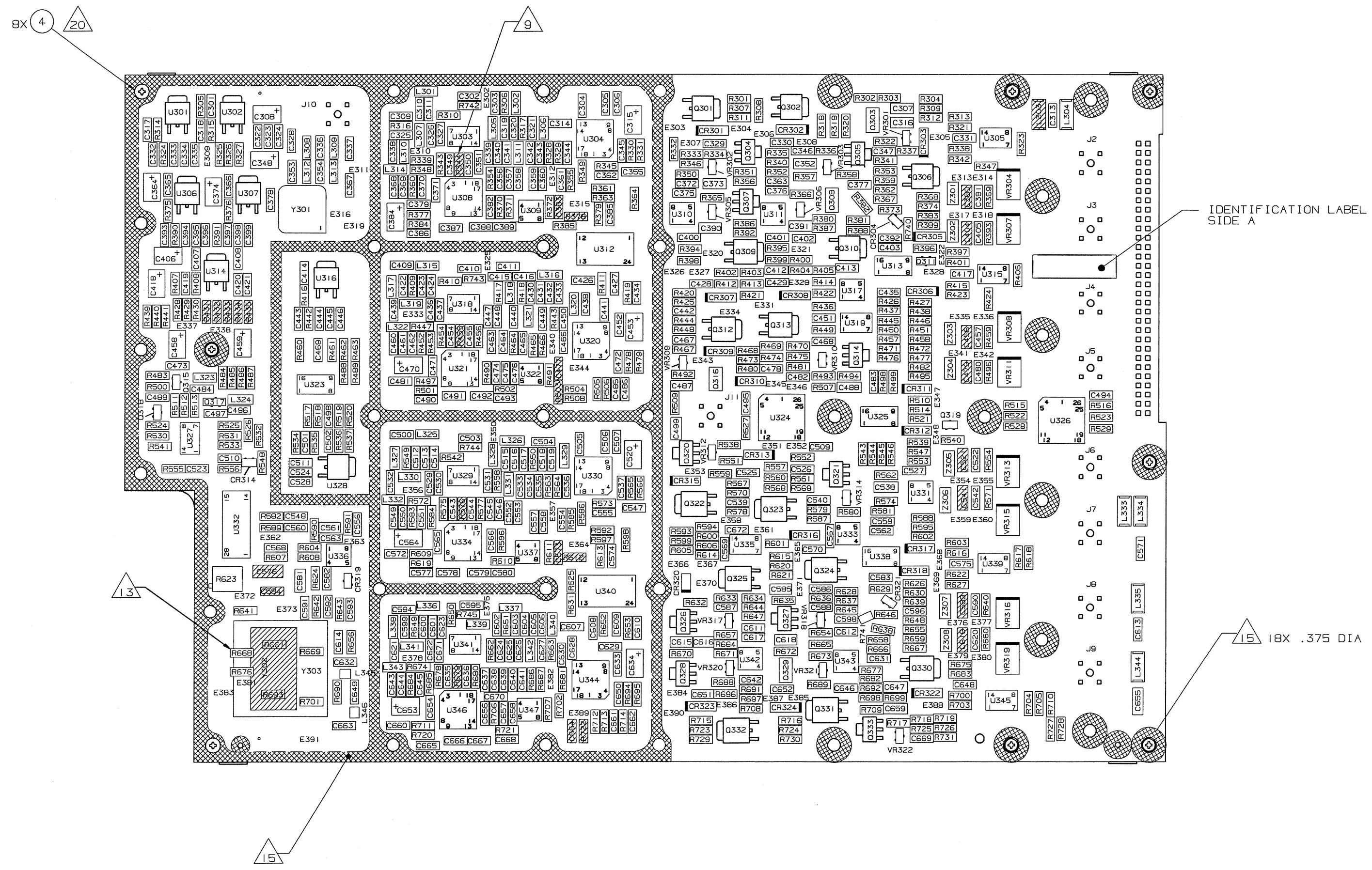
VIEWS SIDE B



CENTER FILTER AND PWB
PADS WITHIN .020.
DETAIL C

Honeywell		SEE FIRST SHEET FOR CONTRACT NUMBER, USE OR DISCLOSURE OF INFORMATION ON THIS SHEET. ITS SUBJECT TO THE RESTRICTIONS ON THE FIRST SHEET OF THIS DOCUMENT.	SIZE/CAGE CODE E 55939	DRAWING NO. 7517945-903	REV D
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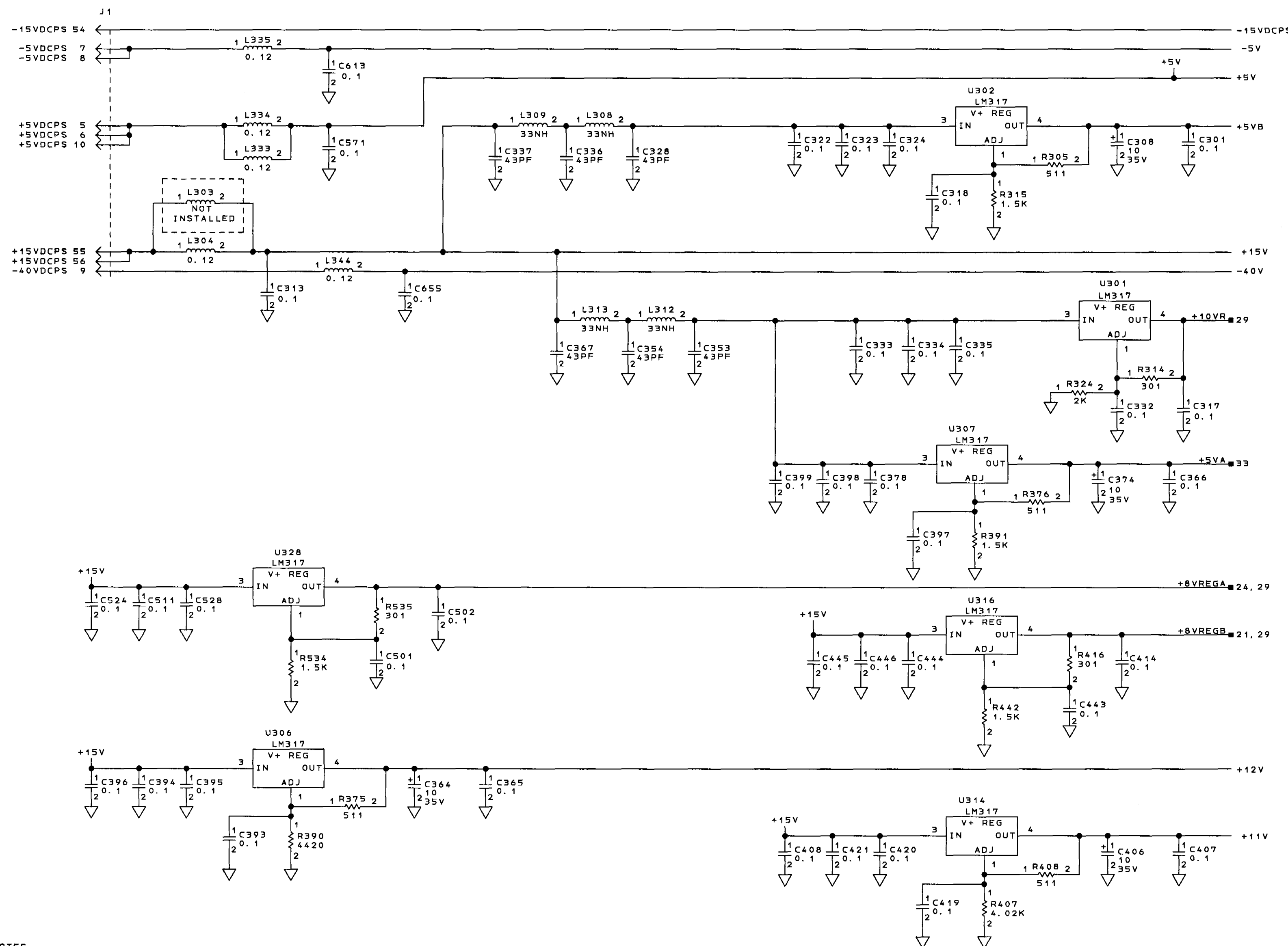
REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
A	1	UTD VIEW: C672 WAS C670. SEE SHEET I	96236(M) 17NOV97	M. SMITH M. BROWN R. RICHARDS
B	2	UTD VIEW: RMY SHADING ON C309, C369, C424, C481, C514, C550, C601, AND C644. R742 WAS C312, R743 WAS C425, R744 WAS C508, AND R745 WAS C597. SEE SHEET I	96238(M) 08FEB98	M. SMITH M. BROWN C. FLORENCE
D	3	UTD VIEW: C340, C343, C411, C433, C516, C525, C606, C626, R316, R317, R403, R418, R549, R650, R649 AND R651 WERE INSTALLED. SEE SHEET I	78157(U) 04AUG98	H. BROWN R. RICHARDS L. WHISLER
G	4	UTD VIEW: ADD NOTE 20 CALLOUT. SEE SHEET I.	17079(U) 20 MAR 00	J. OLSON



REVISIONS		DATE	APPROVED
ZONE	REV		
K			

NOTES: ADD NOTE 6.
25616 (M)
SEE DWG SHEET 1

DATE
APPROVED
J. OLSON



- NOTES:
UNLESS OTHERWISE SPECIFIED:
1. ALL CAPACITANCE VALUES ARE IN MICROFARADS.
2. ALL RESISTANCE VALUES ARE IN OHMS.
3. ALL INDUCTANCE VALUES ARE IN MICROHENRIES.
4. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN;
FOR COMPLETE DESIGNATIONS PREFIX PART
DESIGNATION WITH SUBASSEMBLY DESIGNATION.
5. INTERPRET DRAWING PER ANSI Y32.2-1975 AND
ANSI/IEEE STD 991-1986. LOGIC SYMBOLS
CONFORM TO ANSI/IEEE STD 91-1984.
6. FOR REFERENCE ONLY, COMPONENTS WHICH MAY BE
TEST SELECT DURING ALIGNMENT ARE MARKED WITH
THE WORD "SELECT".

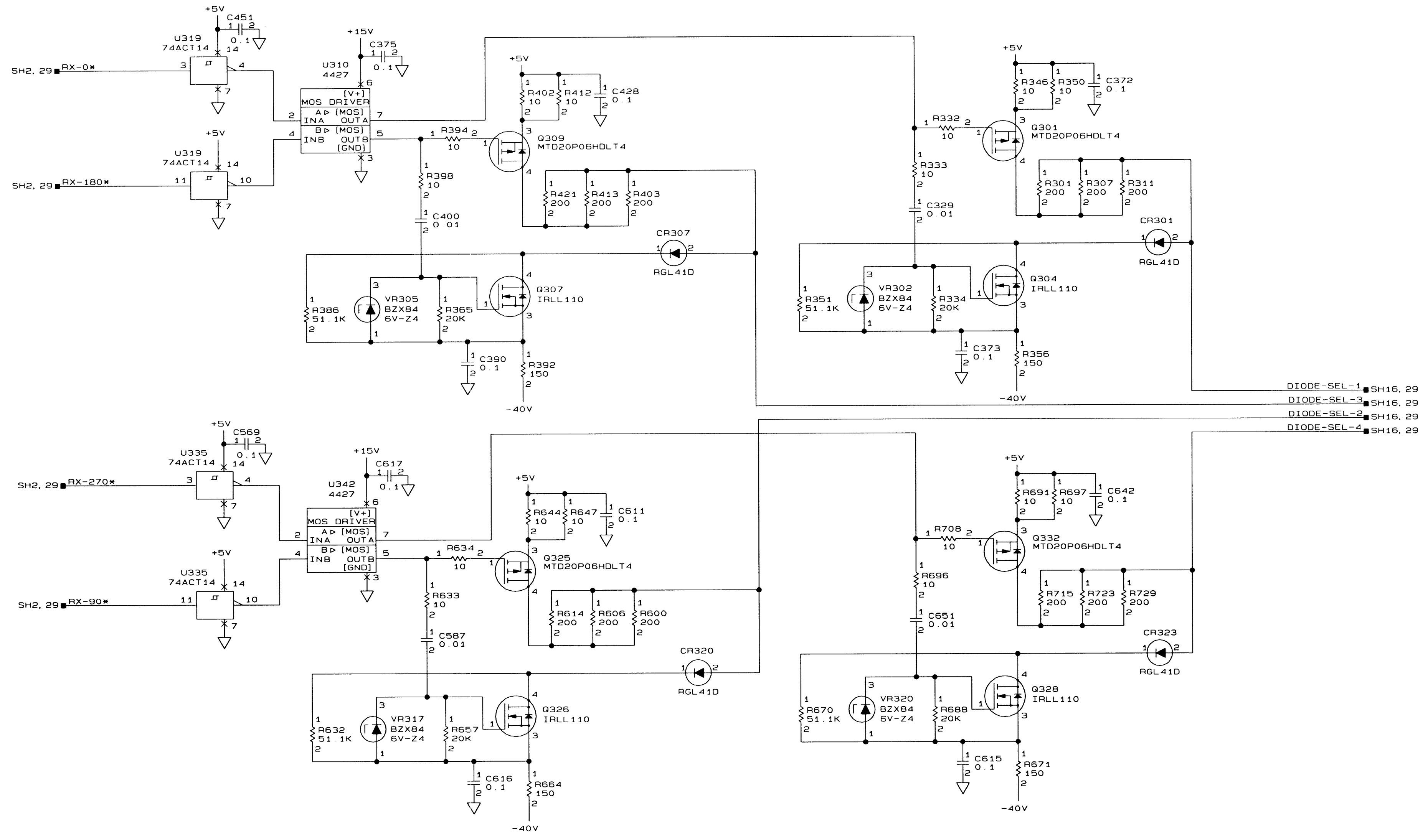
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SCHEMATIC DIAGRAM SHEET NO. 1 OF 29

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Honeywell	SEE FIRST SHEET FOR CONTRACT NUMBER, USE OR DISCLOSURE OF INFORMATION ON THIS SHEET IS SUBJECT TO THE RESTRICTIONS ON THE FIRST SHEET OF THIS DOCUMENT.	SIZE/CASE CODE	DRAWING NO.	REV
		E 55939	7517945-903	K

REVISIONS			
ZONE	REV	DESCRIPTION	DATE
			APPROVED

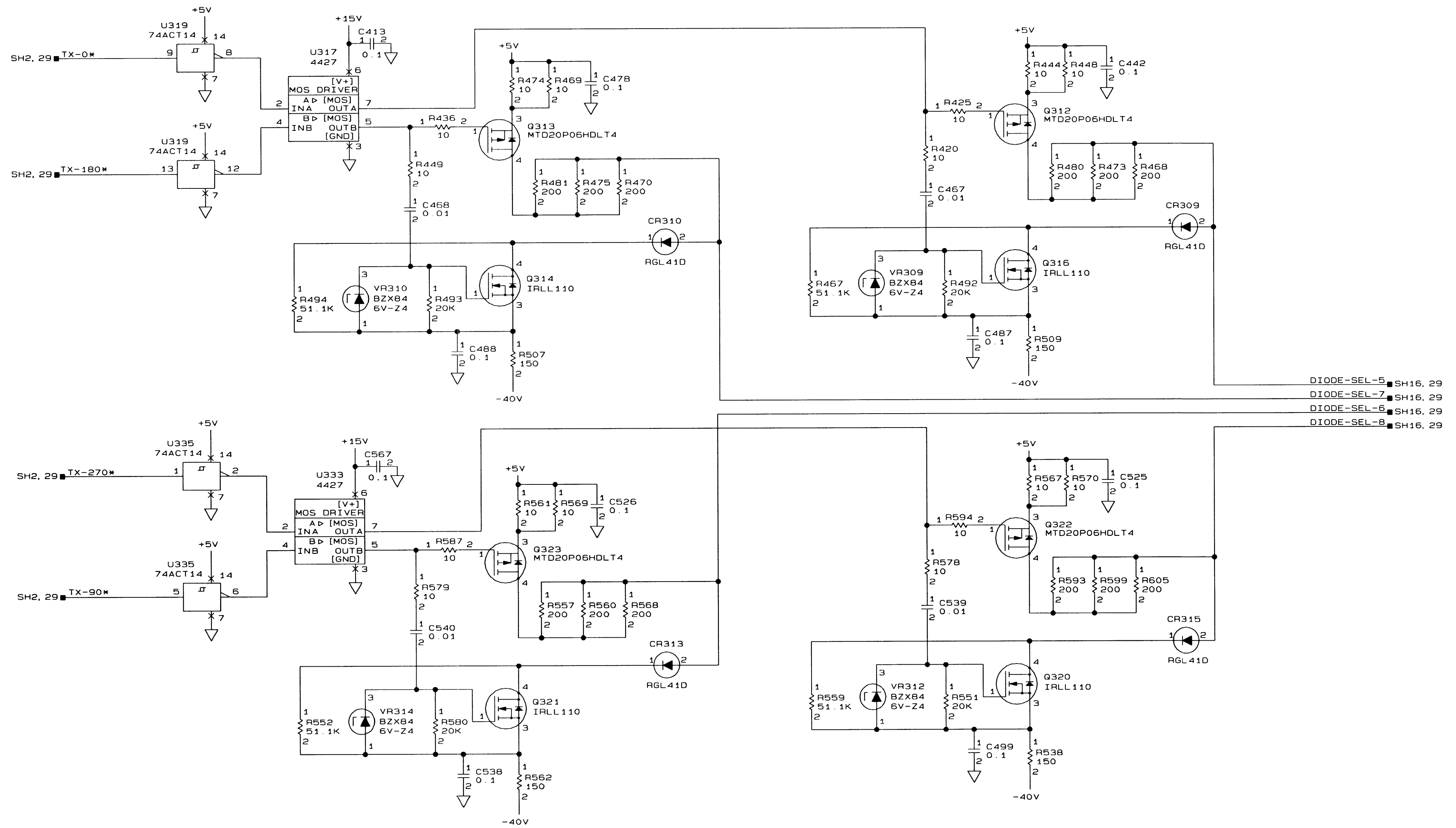


DIODE-SEL-1 SH16, 29
 DIODE-SEL-3 SH16, 29
 DIODE-SEL-2 SH16, 29
 DIODE-SEL-4 SH16, 29

I/O DRIVER
 SCHEMATIC DIAGRAM SHEET NO. 3

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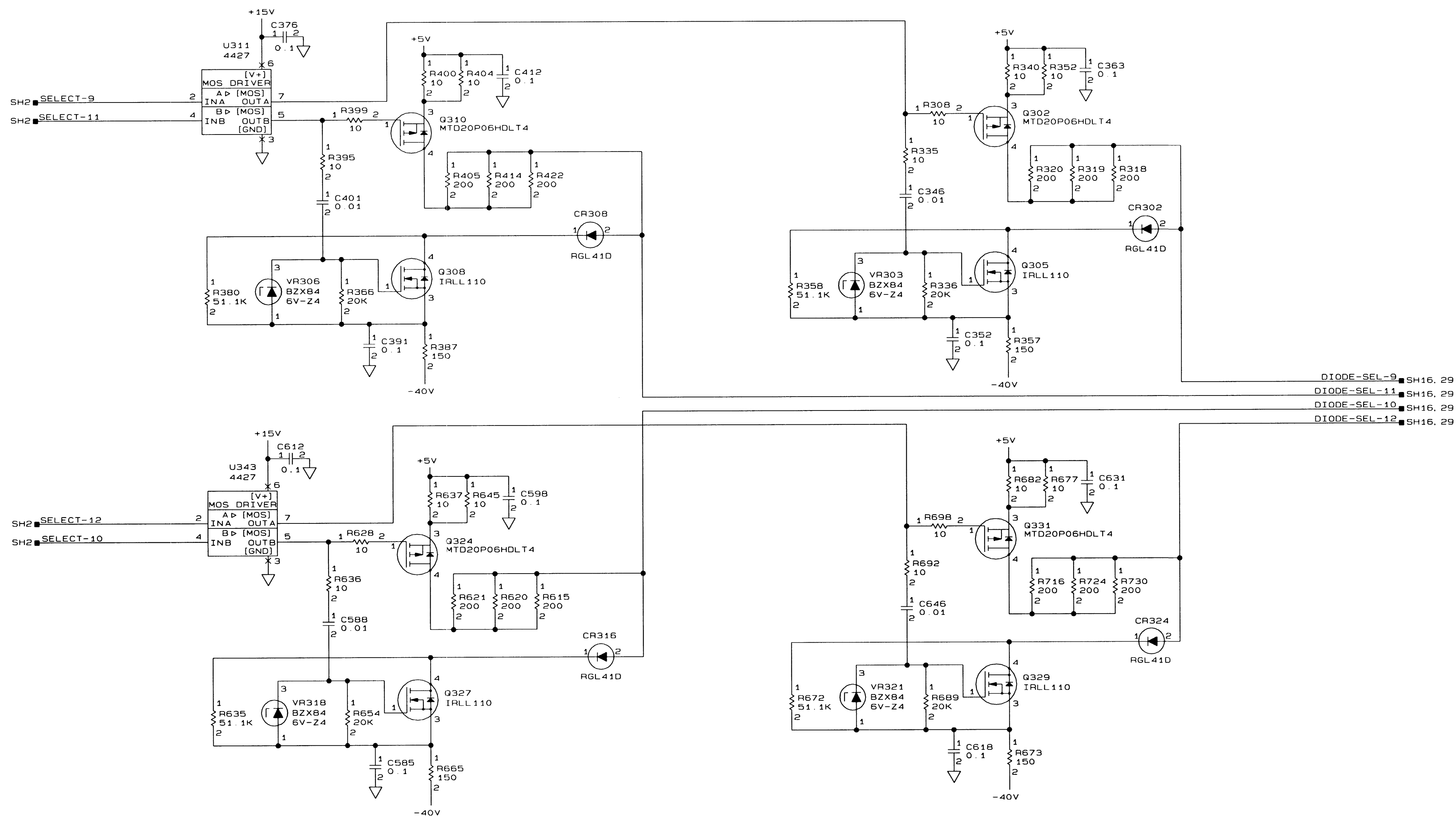
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		E	55939	7517945-903	1



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I/O DRIVER
 SCHEMATIC DIAGRAM SHEET NO. 4

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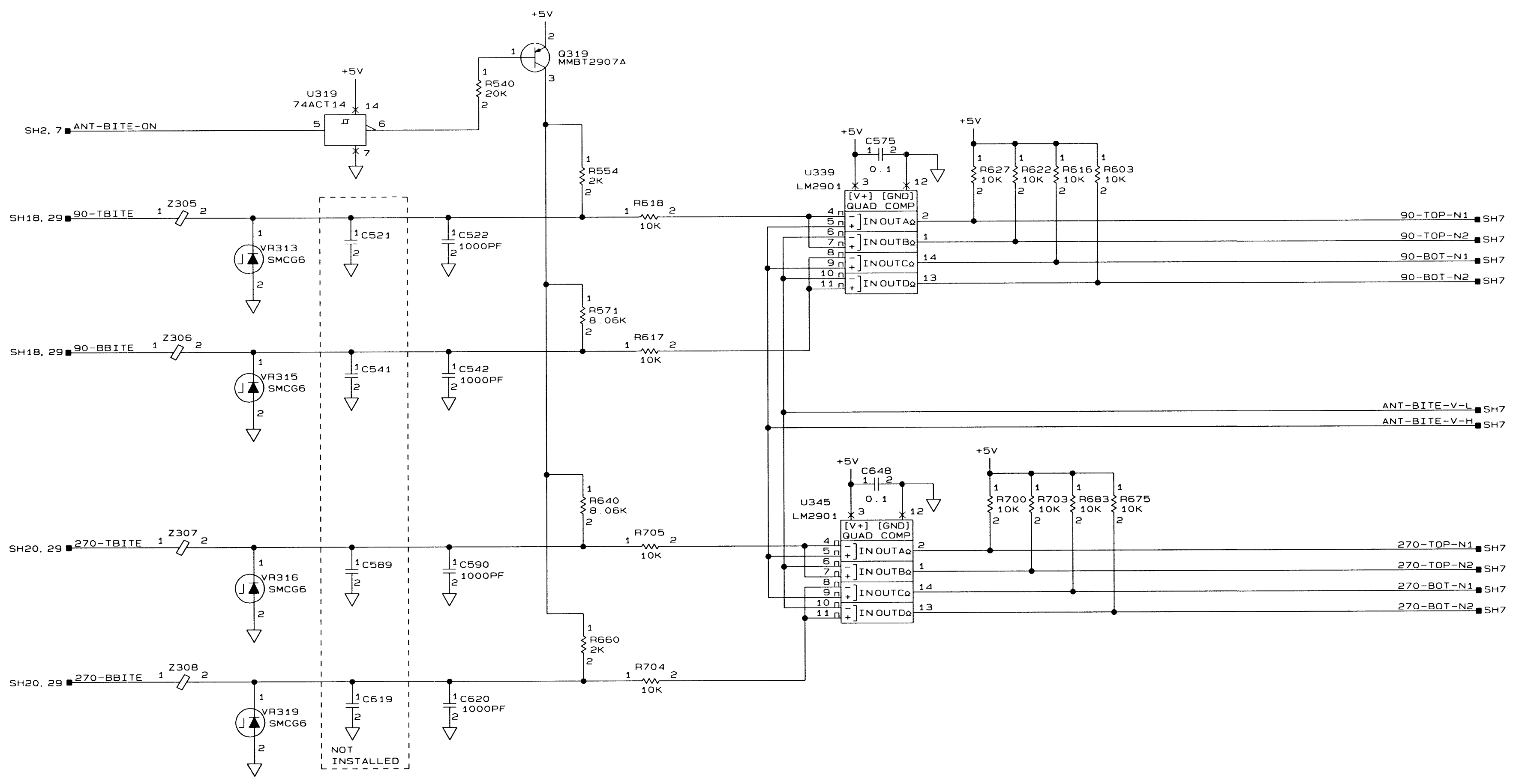


I/O DRIVER

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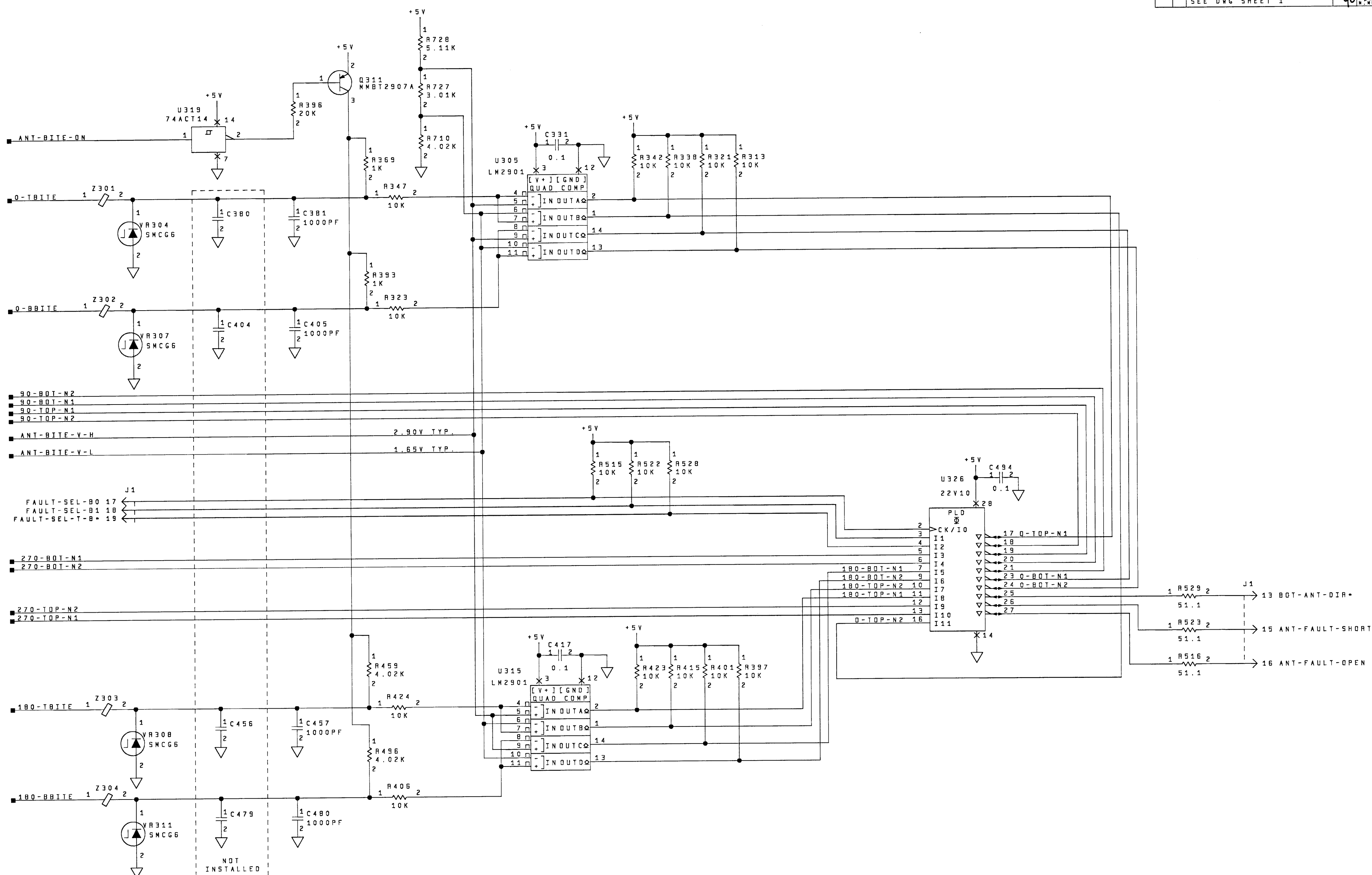


ANT BITE
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COMPUTER GENERATED

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		E	55939	7517945-903	1
		SCALE —			SHEET 9

REVISIONS			
ZONE	REV	DESCRIPTION	DATE
	D	PARTS LIST DATA BASE CHANGE ONLY.	78157(U)
		SEE DWG SHEET 1	



ANTENNA BITE
SCHEMATIC DIAGRAM SHEET NO. 7

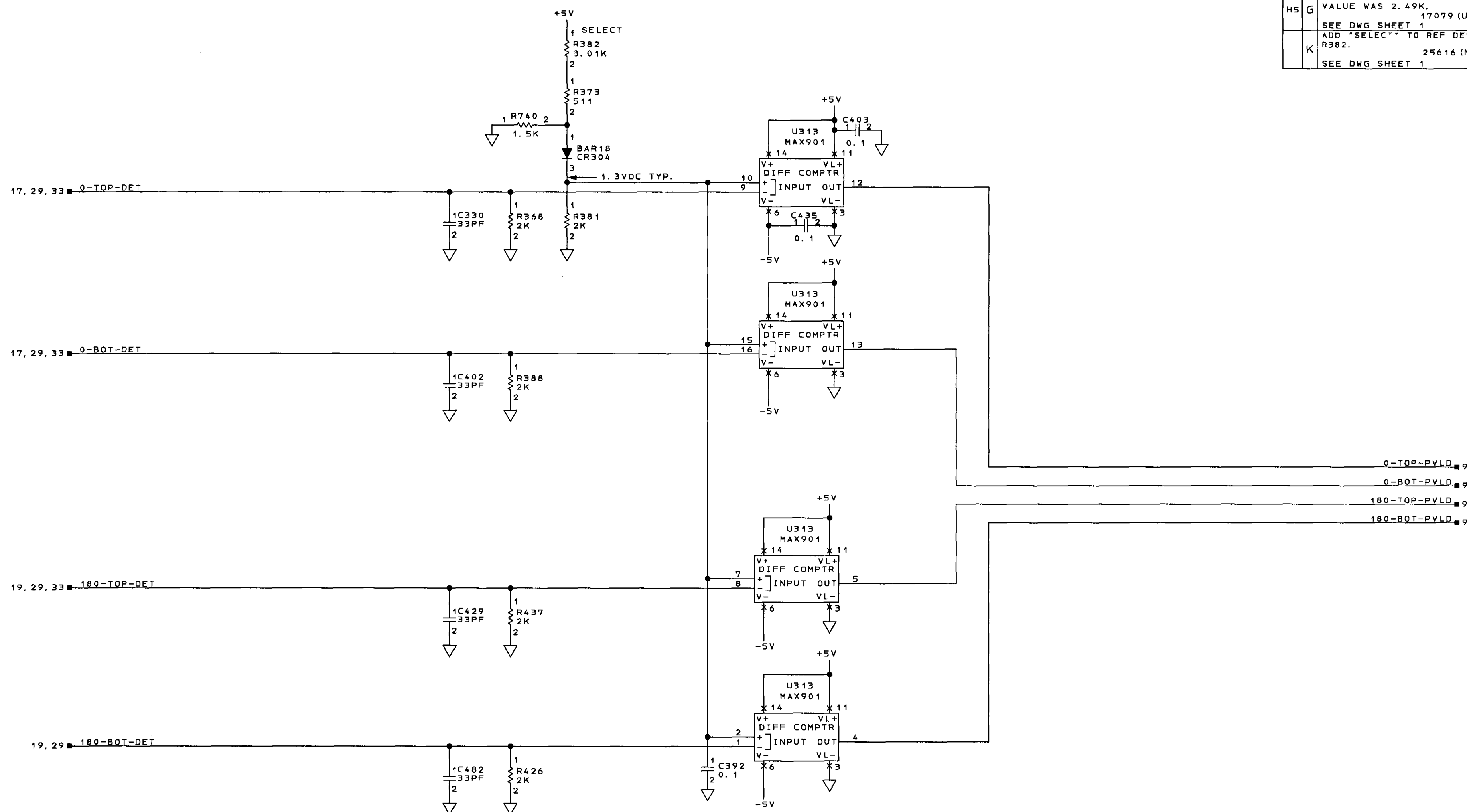
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		E 55939	7517945-903	D

REV 7517945-903 10

REVISIONS SHEET 10

REVISIONS			
ZONE	REV	DESCRIPTION	DATE
H5	B	UDTD SCH: REF DES R382 VALUE WAS 2K. 96238 (M) SEE DWG SHEET 1	9 FEB 98 H. SMITH M. BROWN M. MOREAU
H5	G	UDTD SCH: REF DES R382 VALUE WAS 2.49K. 17079 (U) SEE DWG SHEET 1	20 MAR 01 H. SMITH M. BROWN M. MOREAU
K		ADD "SELECT" TO REF DES R382. 25616 (M) SEE DWG SHEET 1	20 MAR 01 H. SMITH M. BROWN M. MOREAU



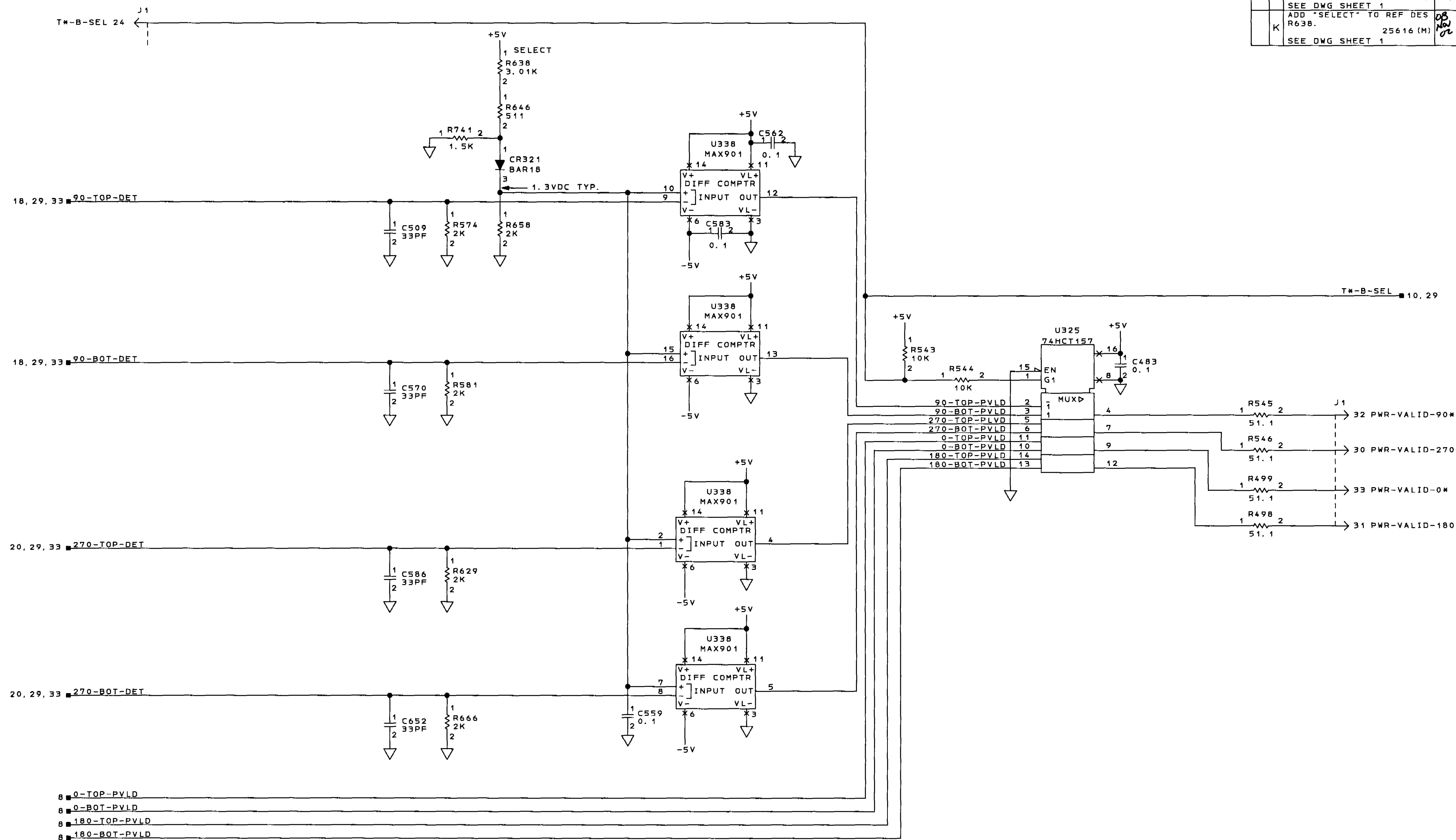
POWER VALID DETECTION
SCHEMATIC DIAGRAM SHEET NO. 8

COMPUTER GENERATED

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NO. 7517945-903 111
DATE: 06-11-1998

REVISEMENTS		DATE	APPROVED
ZONE	REV		
G6	B	9 FEB 98	M. SMITH M. BROWN M. MOREAU
H5	G	20 MAR 01	M. SMITH M. BROWN M. RICHARDS
	K		



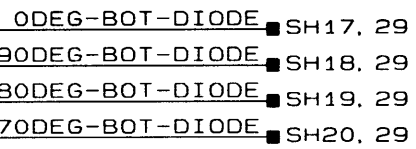
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SCHEMATIC DIAGRAM SHEET NO. 9

COMPUTER GENERATED

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7517945-903 12

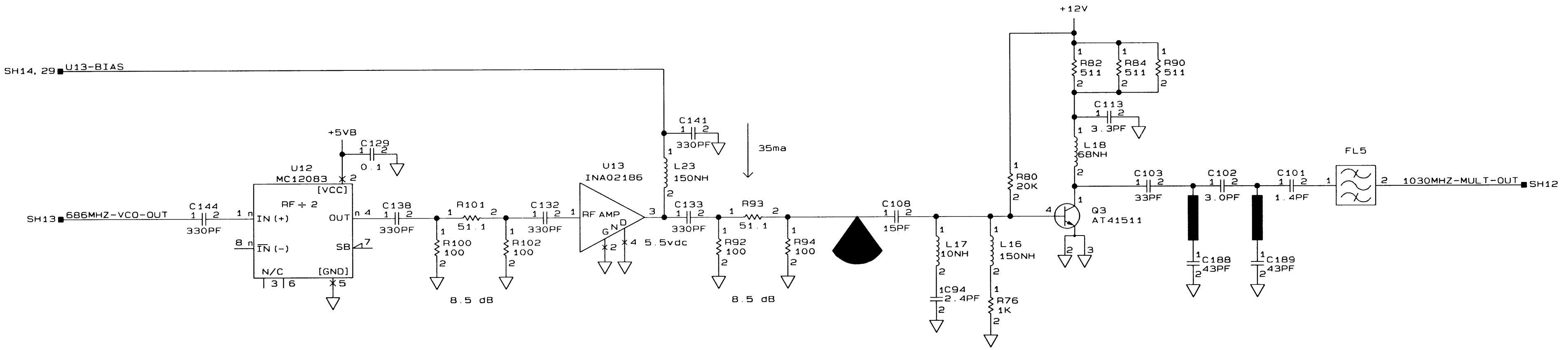
DATE TIME



<u>0DEG-TOP-DIODE</u>	■ SH17, 29
<u>90DEG-TOP-DIODE</u>	■ SH18, 29
<u>180DEG-TOP-DIODE</u>	■ SH19, 29
<u>270DEG-TOP-DIODE</u>	■ SH20, 29

COMPUTER GENERATED

REVISIONS			
ZONE	REV	DESCRIPTION	DATE
			APPROVED

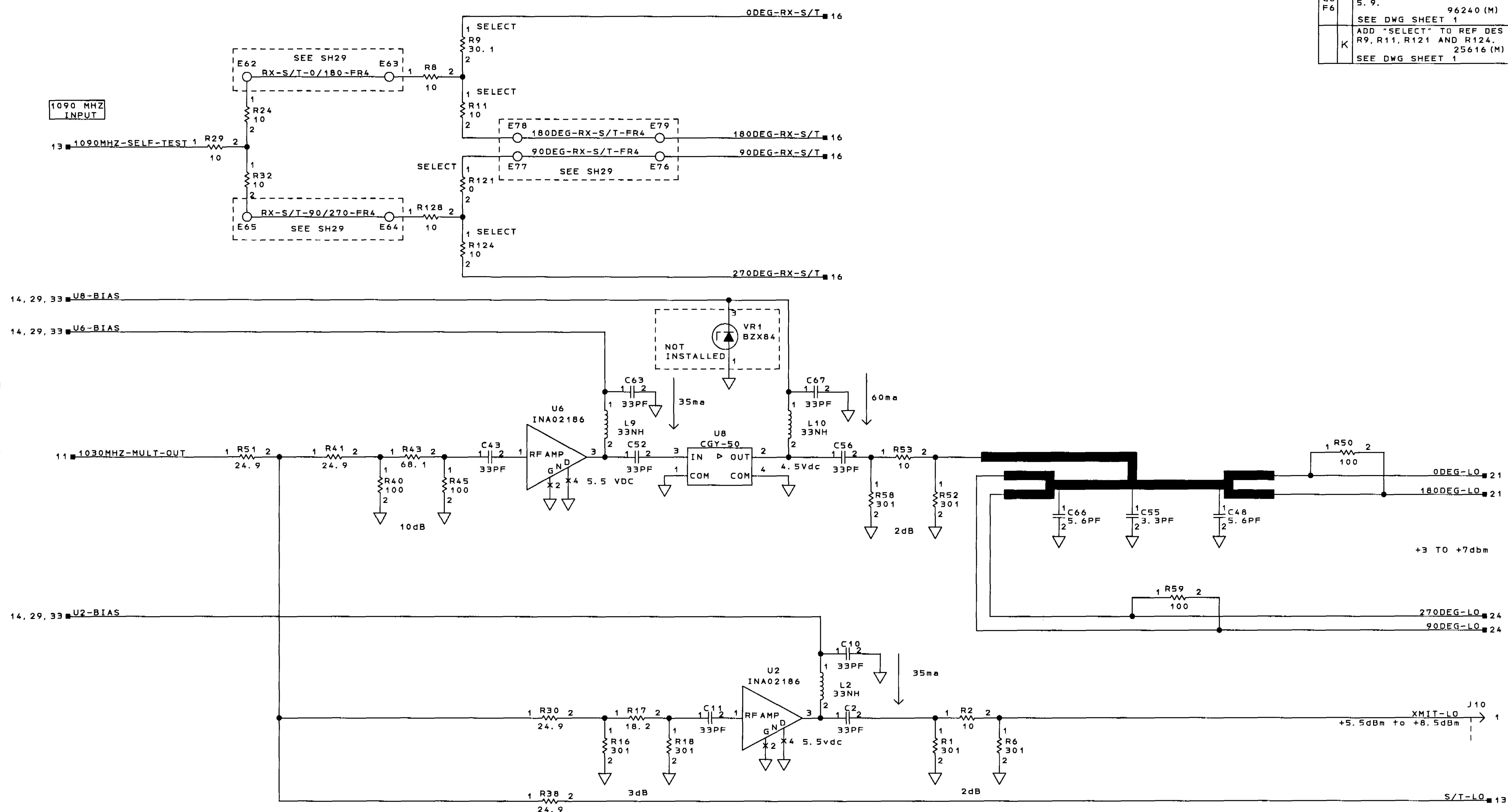


DIVIDE BY 2/ TRIPLER
DUROID SIDE
SCHEMATIC DIAGRAM SHEET NO. 11

COMPUTER GENERATED

Honeywell	SEE FIRST SHEET FOR CONTRACT NUMBER. USE OR DISCLOSURE OF INFORMATION ON THIS SHEET IS SUBJECT TO THE RESTRICTIONS ON THE FIRST SHEET OF THIS DOCUMENT.	SIZE	CAGE CODE	DRAWING NO.	REV
		E	55939	7517945-903	—
		SCALE —		SHEET 14	

ZONE		REV		DESCRIPTION		DATE		APPROVED	
D4	A	UDTD SCH: REF DES R52 AND R58 WERE NOT INSTALLED.		96236 (M)		17 NOV 97		M. SMITH	
		SEE DWG SHEET 1						M. BROWN	
G7 F7 G6 F6	C	UDTD SCH: REF DES R9, R11, R24, R32, R121, AND R124 VALUE WAS 5.9.		96240 (M)		31 MAR 98		M. SMITH	
		SEE DWG SHEET 1						M. BROWN	
K		ADD "SELECT" TO REF DES R9, R11, R121 AND R124.		25616 (M)		10 MAR 98		M. SMITH	
		SEE DWG SHEET 1						M. BROWN	

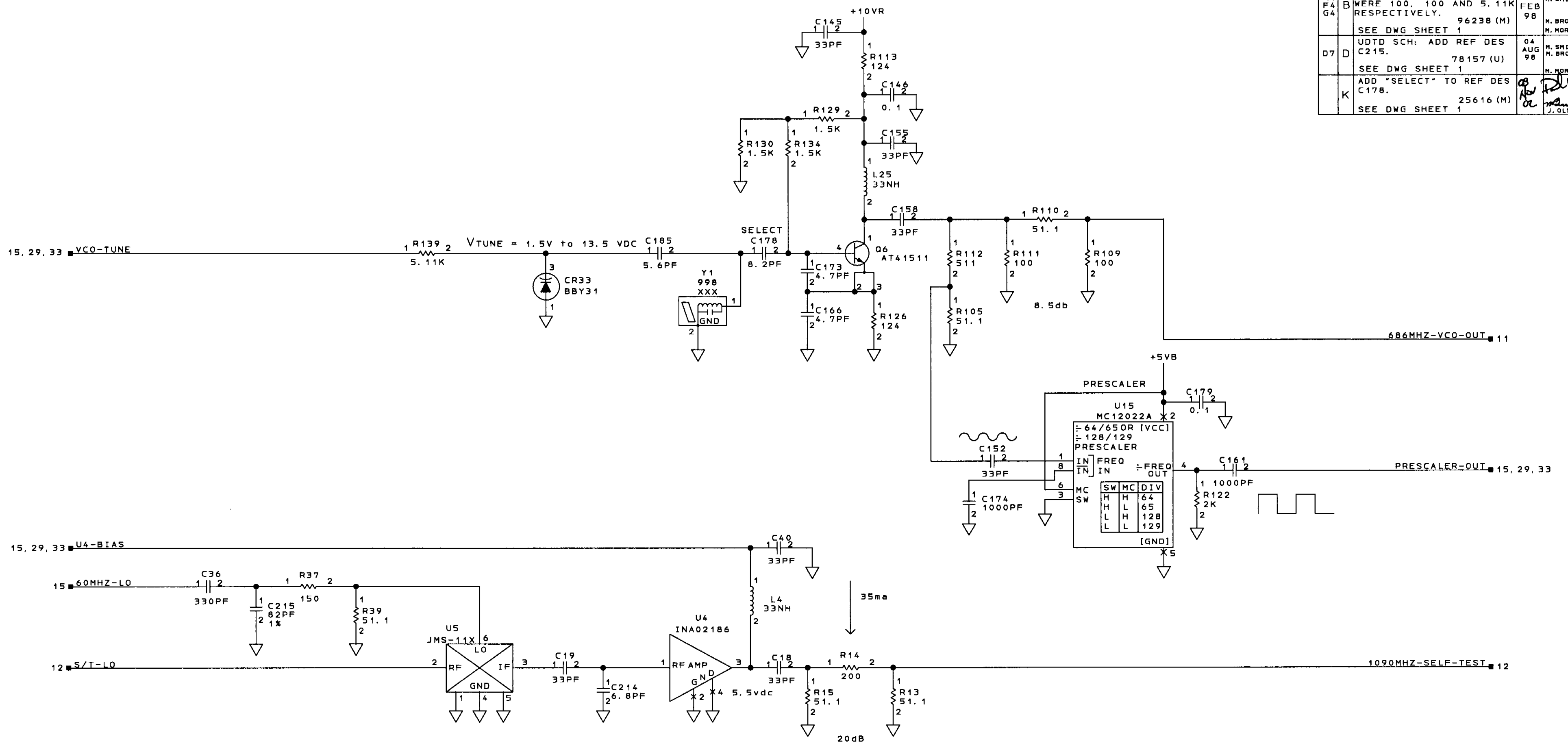


DUROID SIDE
POWER DISTRIBUTION
SCHEMATIC DIAGRAM SHEET NO. 12

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Honeywell		SEE FIRST SHEET FOR CONTRACT NUMBER, USE OR DISCLOSURE OF INFORMATION ON THIS SHEET IS SUBJECT TO THE RESTRICTIONS ON THE FIRST SHEET OF THIS DOCUMENT.	SIZE CASE CODE E 55939	DRAWING NO. 7517945-903	REV K
			SCALE	SHEET 15	

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
D5	A	UDTD SCH: ADD REF DES C214. 96236 (M) SEE DWG SHEET 1	17 NOV 97	H. SMITH H. BROWN H. MOREAU
H4 F G4	B	UDTD SCH: REF DES R113, R126 AND R134 VALUES WERE 100, 100 AND 5.11K RESPECTIVELY. 96238 (M) SEE DWG SHEET 1	09 FEB 98	H. SMITH H. BROWN H. MOREAU
D7	D	UDTD SCH: ADD REF DES C215. 78157 (U) SEE DWG SHEET 1	04 AUG 98	H. SMITH H. BROWN H. MOREAU
	K	ADD "SELECT" TO REF DES C178. 25616 (M) SEE DWG SHEET 1	08 DEC 98	J. OLSON



DUROID SIDE
1030 MHZ LOCAL OSCILLATOR
SCHEMATIC DIAGRAM SHEET NO. 13

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