

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.

TABLE I			COMPONENT INSTALLATION	
COMPONENT		TO	PWB	SLVG
REF	PIN	CIRCUIT POINT	SIDE	ITEM NO.
R351	LEFT	U200-2	A	
	RIGHT	U200-3		
R146	RIGHT	C349-BOTTOM LAND	A	
	LEFT	C190-BOTTOM		
C190	TOP	U18-3	A	
	BOTTOM	R146-LEFT		
C349	LEFT	C349-TOP LAND	A	
	RIGHT	R146-LEFT		
R147				
R149	TOP	E2	B	
	BOTTOM	E3		

SHOWN ON CCA	CAD DATA BASE
R352	L50
R353	C76
-	C349
R148	C6
C30	R40
R354	Z200

TABLE III CUT RUN DATA 19			
CUT NO.	PWB SIDE	FROM CIRCUIT POINT	TO CIRCUIT POINT
1	A	U200-6	C245-TOP PROBE PAD
2	A	U200-7	C246-TOP PROBE PAD

TABLE IV BUSWIRE DATA 				
CONDUCTOR		PWB SIDE	FROM CIRCUIT POINT	TO CIRCUIT POINT
COND. NO.	ITEM NO.			
601	705	A	U200-6	C246-TOP PROBE PAD
602	705	A	U200-7	C245-TOP PROBE PAD
603	705	A	R146-LEFT	C190-TOPMOM
604	705	A	C349-RIGHT	R146-LEFT

TRUTH TABLES	CHECKSUM	VERSION	CCA REV
TT7030604-104	B193	003	XD
TT7030604-105	63DD	255	XH

NOTES :

1. ASSEMBLE PER ITEM 701.
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.
-  CAUTION
ELECTROSTATIC SENSITIVE COMPONENTS
HANDLE CAREFULLY
3. MAXIMUM COMPONENT HEIGHT:
SIDE B SHALL BE .397
SIDE A SHALL BE .100 EXCEPT J1.
.285 MAXIMUM FROM TOP OF ITEM 2 (SHIELD) TO SIDE B OF THE PWB.
.315 MAXIMUM FROM TOP OF ITEM 4 (SHIELD) TO SIDE B OF THE PWB.

4. COMPONENT LEAD PROTRUSION SHALL BE .060 MAXIMUM ON BOTH SIDES, BARE COPPER IS PERMISSIBLE ON TRIMMED SURFACES.
5. SQUARE PADS ON PRINTED WIRING BOARD INDICATE PIN 1.
6. SOME COMPONENTS SHOWN OVERSIZE TO PROVIDE SPACE FOR DESIGNERS.

- 7 CONFORMAL COAT CCA PER ITEM 702 EXCEPT TEST POINTS
AND AREAS SHOWN.

- 8 INSTALL SOLDER PREFORMS (ITEM 6), ONE PER PIN ON J1, ON SIDE B OF PWB (ITEM 1). APPLY HEAT LOCALLY TO AREA ON SIDE B TO SOLDER PREFORMS.

- 9 FOR KEYING PURPOSES, REMOVE PINS J1-A5, J1-F4 (FLUSH TO WITHIN .020 OF PLASTIC BODY) AND J2-10 (FLUSH TO WITHIN .020 OF CROSSBAR).

- 10 HAND-SOLDER U21 TO PWB (ITEM 1).

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

- 12 SOLDER R351 TO PADS OF U200 TO INSTALL.

- 13 SHADED COMPONENTS ARE NOT INSTALLED.

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

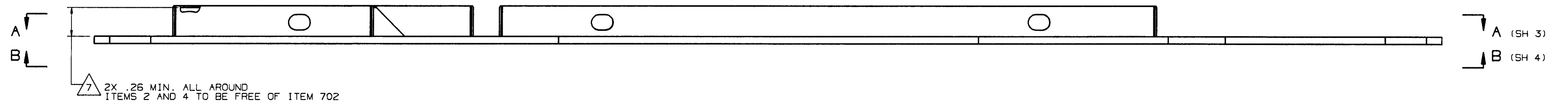
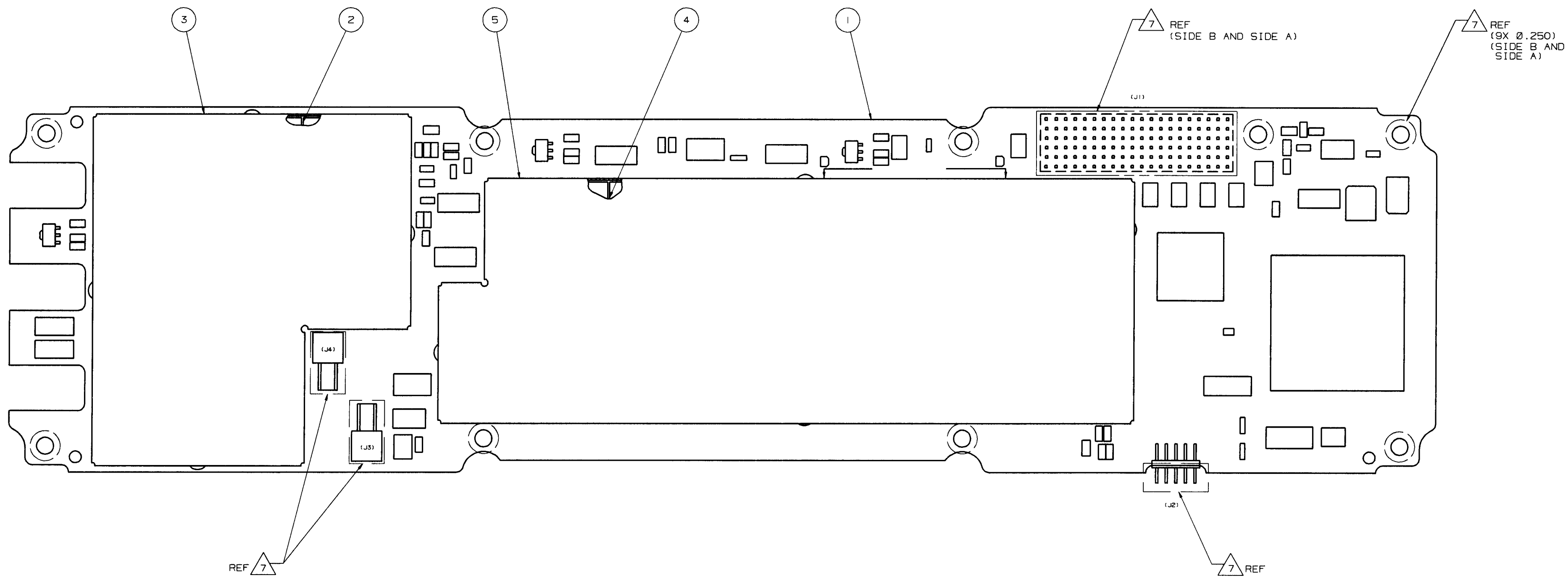
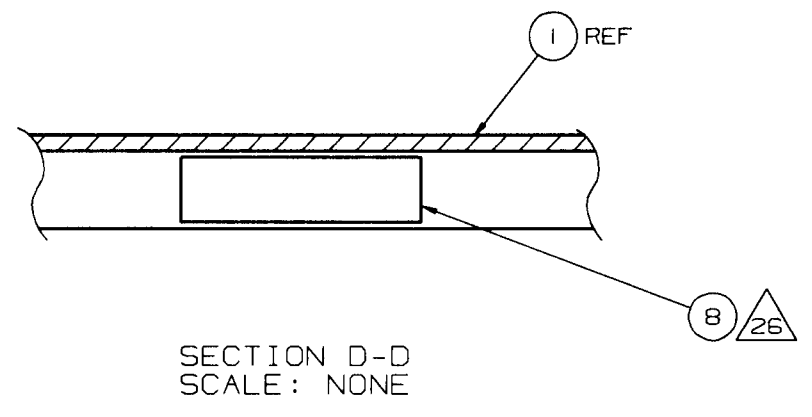
15. J1 HEADER IS TO BE FLUSH TO WITHIN .010 OF SIDE A OF PWB (ITEM 1).
16. SECURE L44 AND L67 TO PWB (ITEM 1) WITH RTV (ITEM 703).
- 17.
18. C349 IS NOT PLACED ON IT'S ORIGINAL PADS.
19. MAKE CUTS PER TABLE III, LEFT OR RIGHT, TOP OR BOTTOM AS VIEWED FROM INDICATED SIDE.
20. INSTALL BUS WIRES PER TABLE IV, LEFT OR RIGHT, TOP OR BOTTOM AS VIEWED FROM INDICATED SIDE.
21. ORIENTATE U19 AS SHOWN. PIN 1 IS INDICATED BY THE ORIENTATION OF THE MARKINGS ON THE DEVICE. THE MARKING SHOWN IS FOR REFERENCE ONLY.
22. WHEN PROGRAMMING U17 (CPLD), AN EXTERNAL 10K OHM PULL-UP RESISTOR MUST BE CONNECTED BETWEEN J2-5 (VHFRX-TRST*) AND +3.3V.
23. PROGRAM U17 (CPLD) WITH ITEM 706 (VHFRX CPLD CODE) AT HONEYWELL PRIOR TO INSTALLATION INTO NEXT HIGHER ASSEMBLY.
24. FOR KEYING PURPOSES, INSERT ITEM 7 INTO J1-A5 AND J1-F4.
25. MARK APPLICABLE PART NUMBER, REVISION AND UCN PER ITEM 707. LOCATE APPROXIMATELY AS SHOWN.
26. APPLY ITEM 8 APPROXIMATELY AS SHOWN. TCXO OFFSET FREQUENCY FROM U21 WILL BE MARKED PER ITEM 707 AT HONEYWELL PRIOR TO INSTALLATION INTO NEXT HIGHER ASSEMBLY.

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

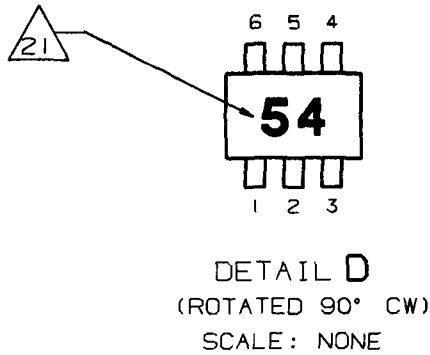
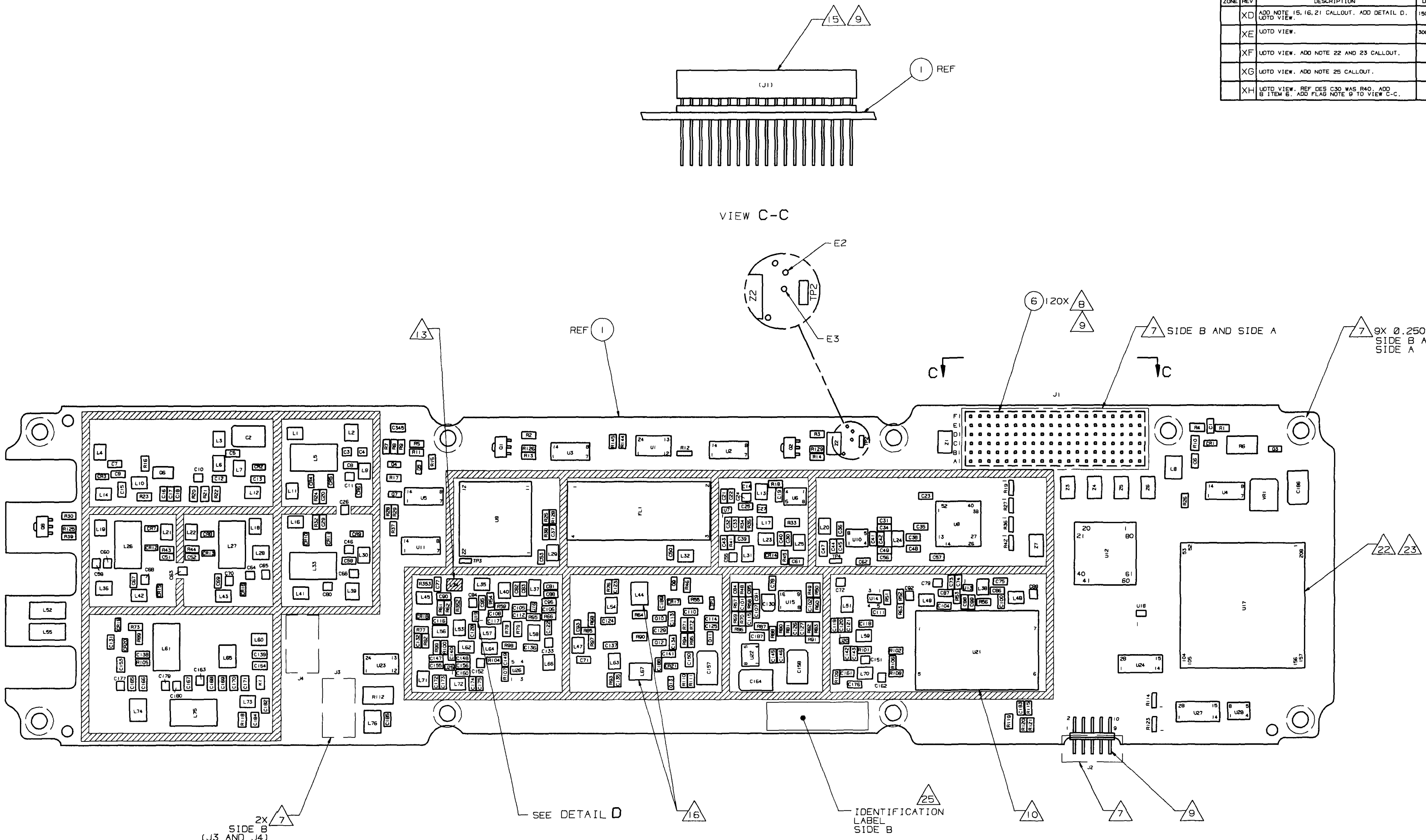
REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	XC	INITIAL X RELEASE OF SHEETS 1 THRU 24	06JUN01	R. BACULA
	XD	NOTES: ADD NOTE 15 THRU 21. TABLES: TBL 1: ADD R14B, C19D, C349, R147. TBL 11: ADD C349, R148, C6. ADD TBL 11: IV. SH IDX REV. PL AFFECTED.	15OCT01	M. BROWN A. WHILDEN
	XE	NOTES: RMV NOTE 17. ADD NOTE 22. TABLES: TBL 1: RMV R147. ADD R149. SH IDX REV. PL AFFECTED.	30OCT01	R. PALLSEN M. BROWN A. WHILDEN
	XF	NOTES: ADD NOTE 23 AND 24. SH IDX REV. PL AFFECTED.		M. BROWN
	XG	PER MARKED PRINT.	21MAR02	R. PALLSEN
	XH	NOTES: NOTE 26 WAS APPLY ITEM 708--- ASSEMBLY. TABLES: TBL 1: ADD C30 AND C354. TBL IV: T17030604--(OS. SH IDX REV. PL AFFECTED.	07 AUG 02	R. PALLSEN E. J. OLSON

[illegible]

REVISIONS			
ZONE	REV	DESCRIPTION	DATE
	XD	UOTO VIEW.	3000T01
	XG	UOTO VIEW.	
	XH	B ITEM B WAS "IDENTIFICATION LABEL".	



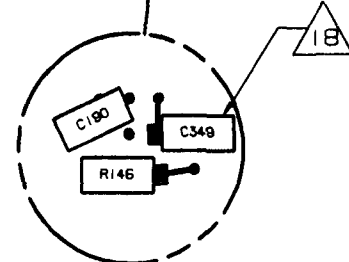
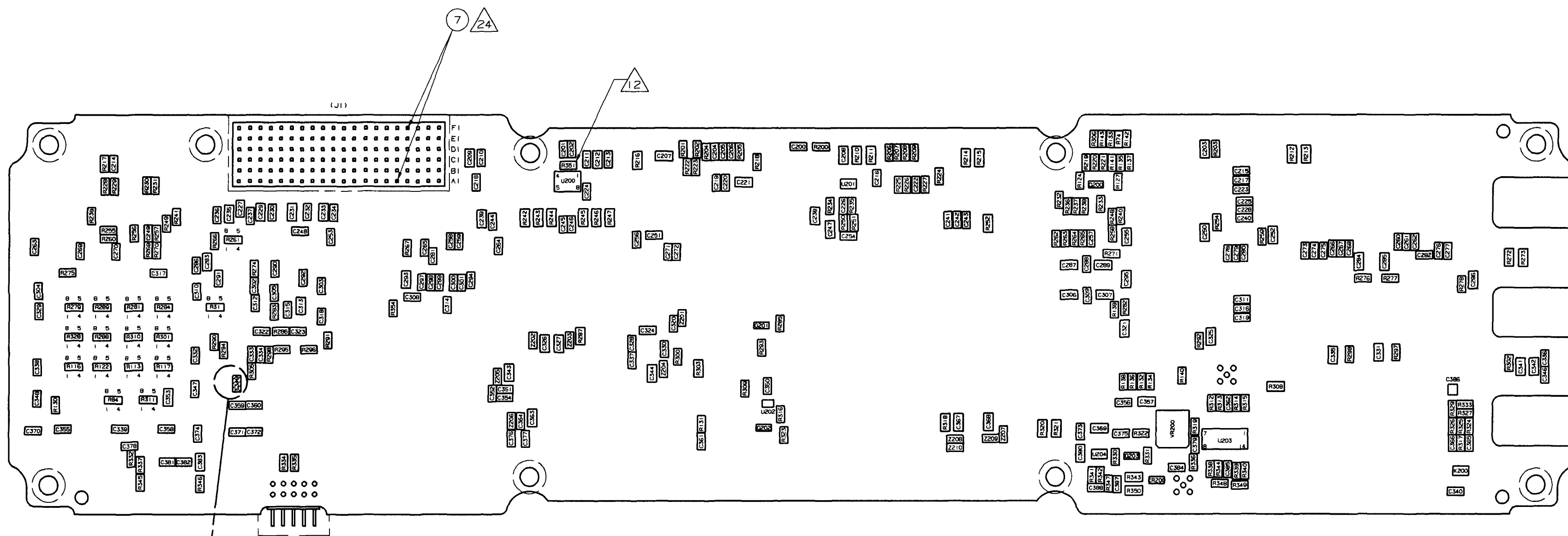
REVISIONS			
ZONE	REV	DESCRIPTION	DATE
			APPROVED
	XD	ADD NOTE 15, 16, 21 CALLOUT. ADD DETAIL D.	15OCT01
	XE	UOTO VIEW.	30OCT01
	XF	UOTO VIEW. ADD NOTE 22 AND 23 CALLOUT.	
	XG	UOTO VIEW. ADD NOTE 25 CALLOUT.	
	XH	UOTO VIEW. REF DES C30 WAS R40. ADD ITEM 6. ADD FLAG NOTE 9 TO VIEW C-C.	



VIEWING SIDE B

SECTION A-A (SH 2)
(ITEMS 2, 3, 4, AND 5 NOT SHOWN FOR CLARITY)

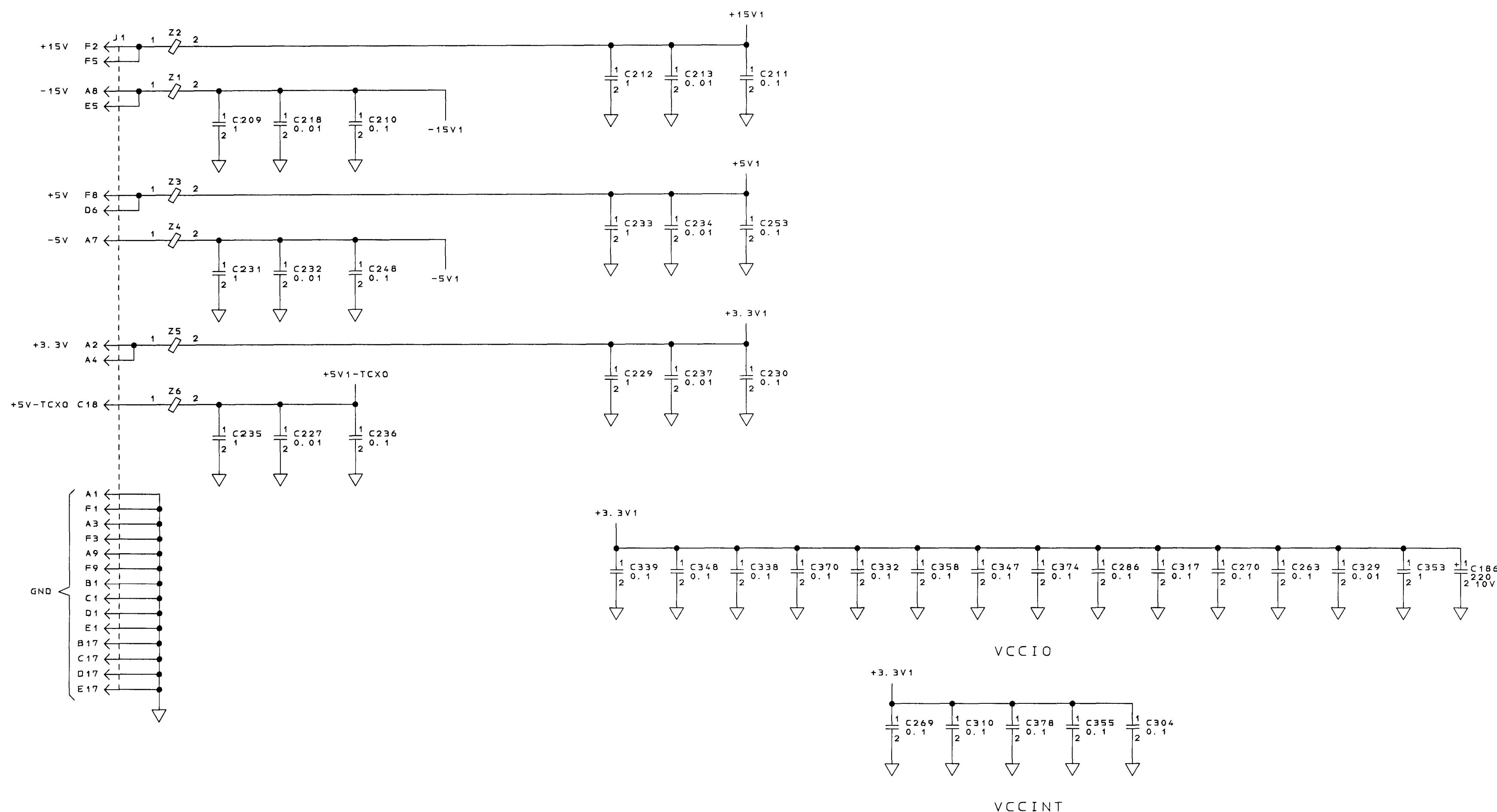
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ZONE	REV	DESCRIPTION	DATE	APPROVED
	XD	UOTO VIEW.	30OCT01	R. PAULSEN A. WHITTON
	XF	UOTO VIEW. ADD NOTE 24 CALLOUT.		<i>R. Paulsen</i> J. OLSON
	XH	SHADE REF DES C349. R354 WAS Z200. ADD B ITEM 7.		<i>R. Paulsen</i> J. OLSON



VIEWING SIDE A

VIEW B-B (SH 2)
ROTATED 180° CW

REVISIONS			
ZONE	REV	DESCRIPTION	DATE
	XF	ADDED 10V TO C186.	
		SEE DWG SHEET 1.	



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.

CPLD POWER SUPPLY BYPASS CAPACITORS

POWER AND GROUND CONNECTIONS

CPLD POWER

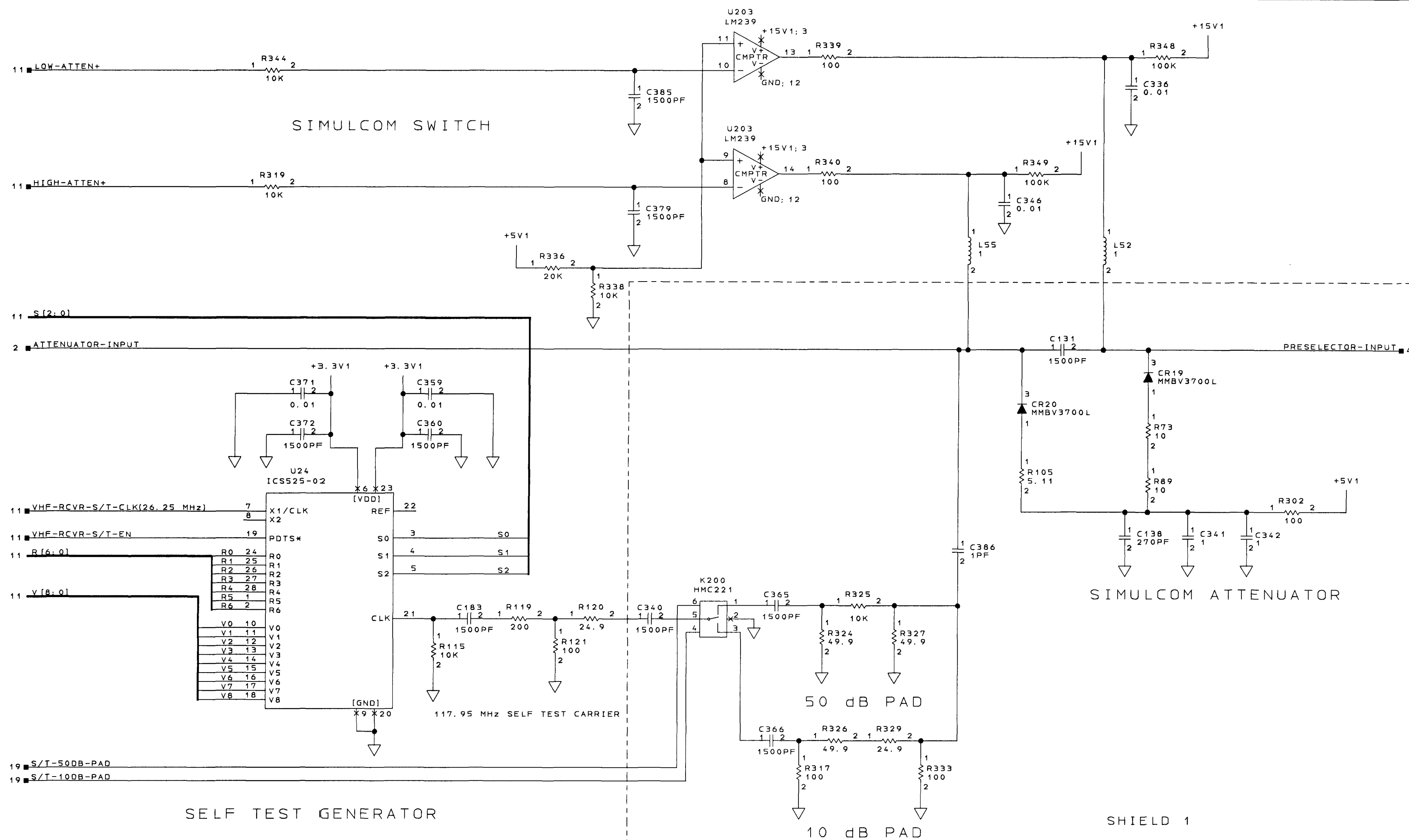
SCHEMATIC DIAGRAM SHEET NO. 1 OF 20

COMPUTER GENERATED

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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.	E	55939	7026234-902	XF
		SCALE		SHEET	5

NO. 7026234-902 5

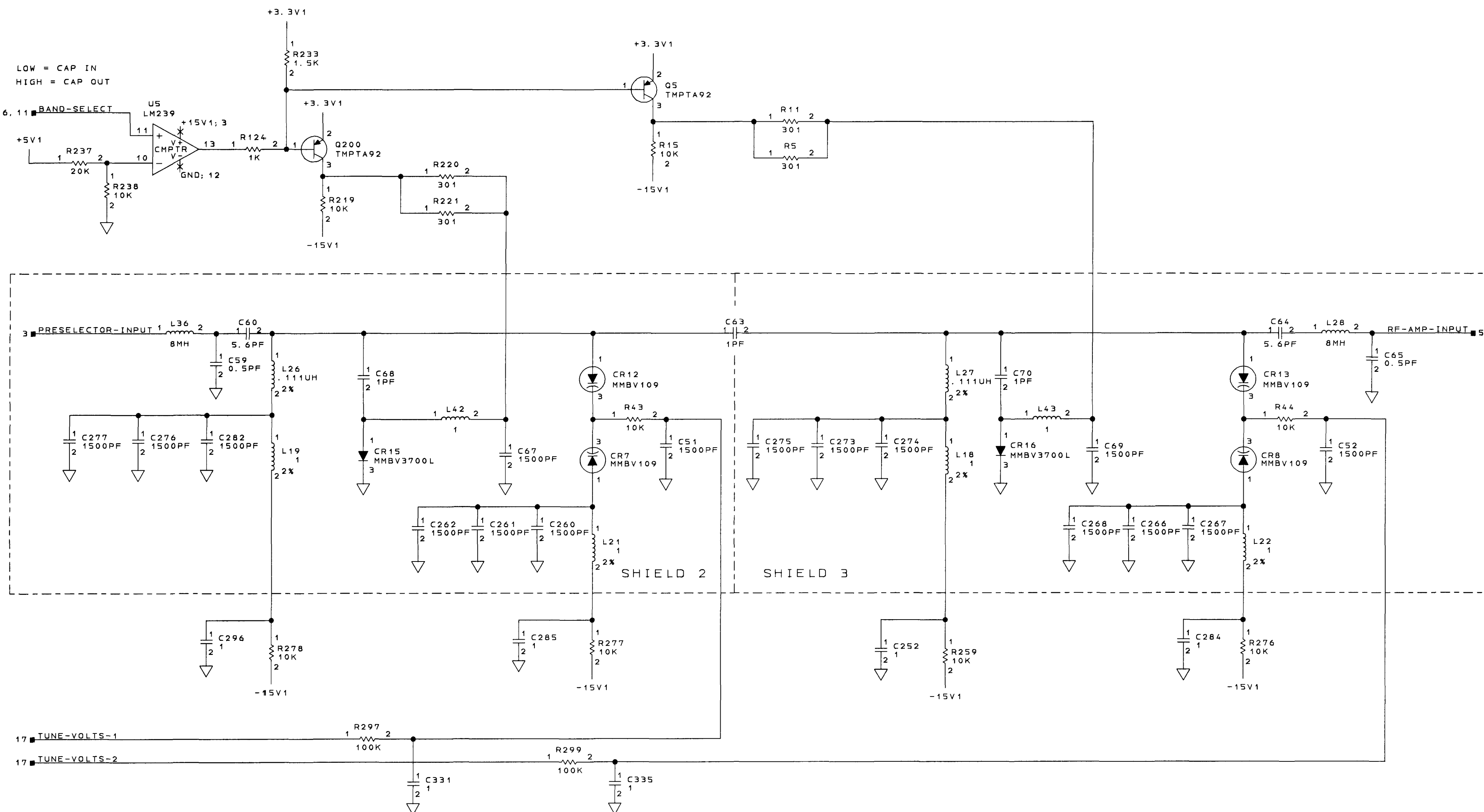
REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	XD	REFDES R105; VAL WAS 5.		PAUL (
	XF	PARTS LIST DATA BASE CHNG. R105 VAL WAS 5. 1 SEE DWG SHEET 1.		R. B. BROWN



SELF TEST CLOCK GENERATOR
SIMULCOM ATTENUATORS
SCHEMATIC DIAGRAM SHEET NO. 3

COMPUTER GENERATED

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		SEE FIRST SHEET FOR CONTACT NUMBER. USE OR DISCLOSURE OF INFORMATION ON THIS SHEET IS SUBJECT TO THE RESTRICTIONS ON THE FIRST SHEET OF THIS DOCUMENT.		E		55939		7026234-902	
				SCALE		SHEET 7			

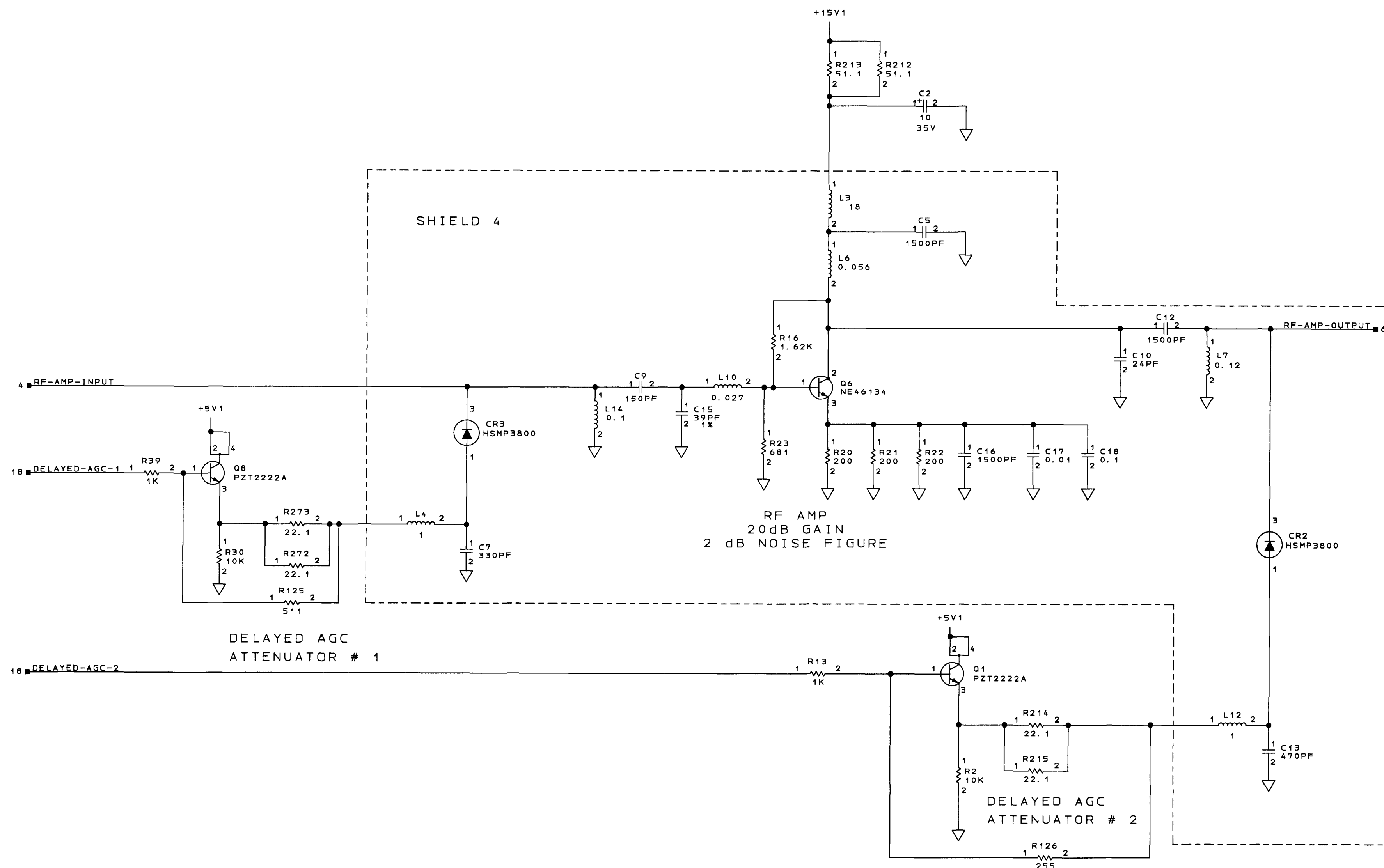


FIRST PRESECTOR STAGE
SCHEMATIC DIAGRAM SHEET NO. 4

COMPUTER GENERATED

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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.		SCALE		SHEET B	

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
D3	XH	REFDES R126; PN WAS 7022518-364, VAL WAS 511.		P. COBLENTZ

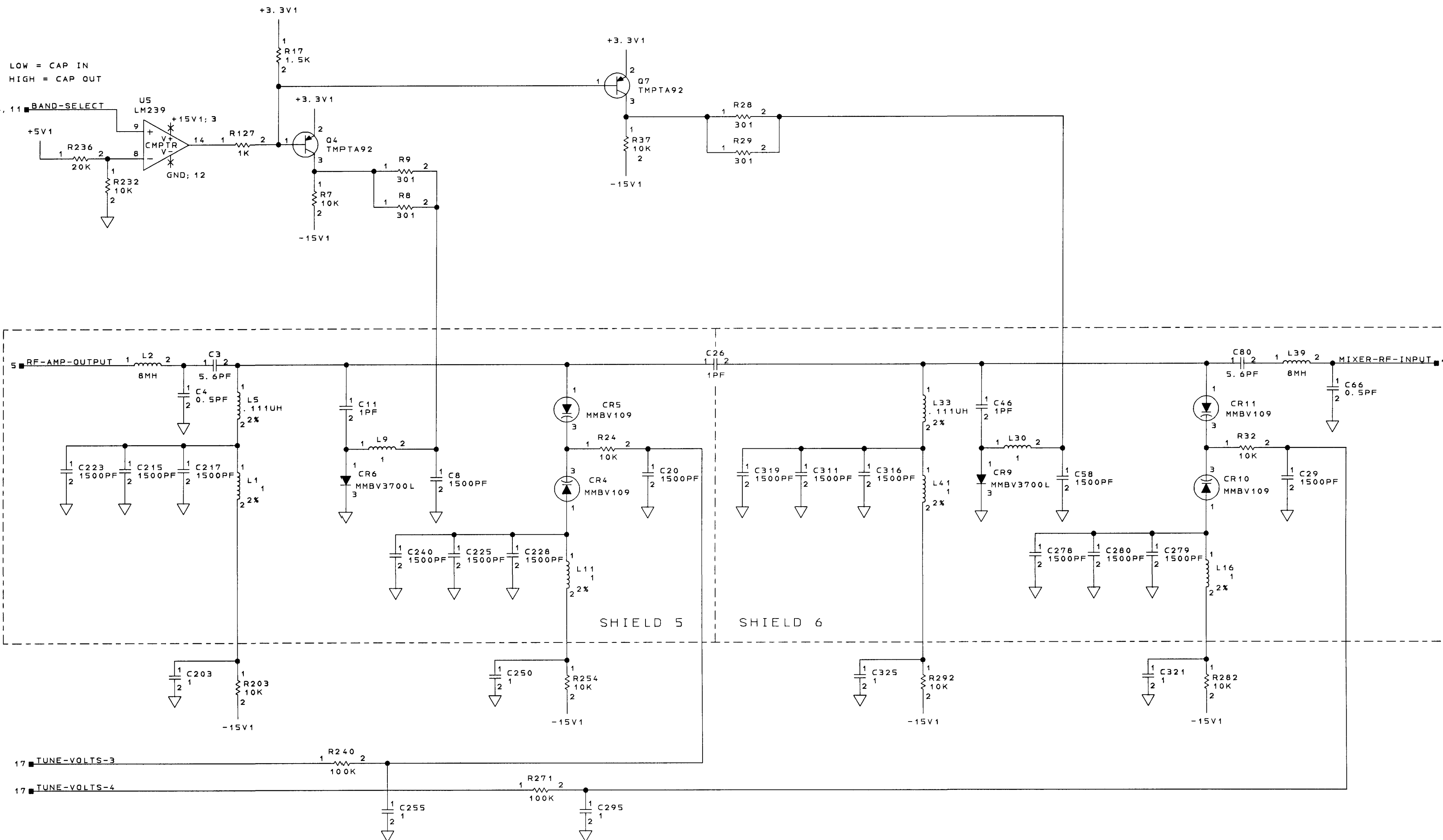


RF AMP AND DELAYED AGC
SCHEMATIC DIAGRAM SHEET NO. 5

COMPUTER GENERATED

8-2-2002 12:45	PAUL COBLENTZ	SIZE	CAGE CODE	DRAWING NO.	REV
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.	E	55939	7026234-902	XH
SCALE					SHEET 9

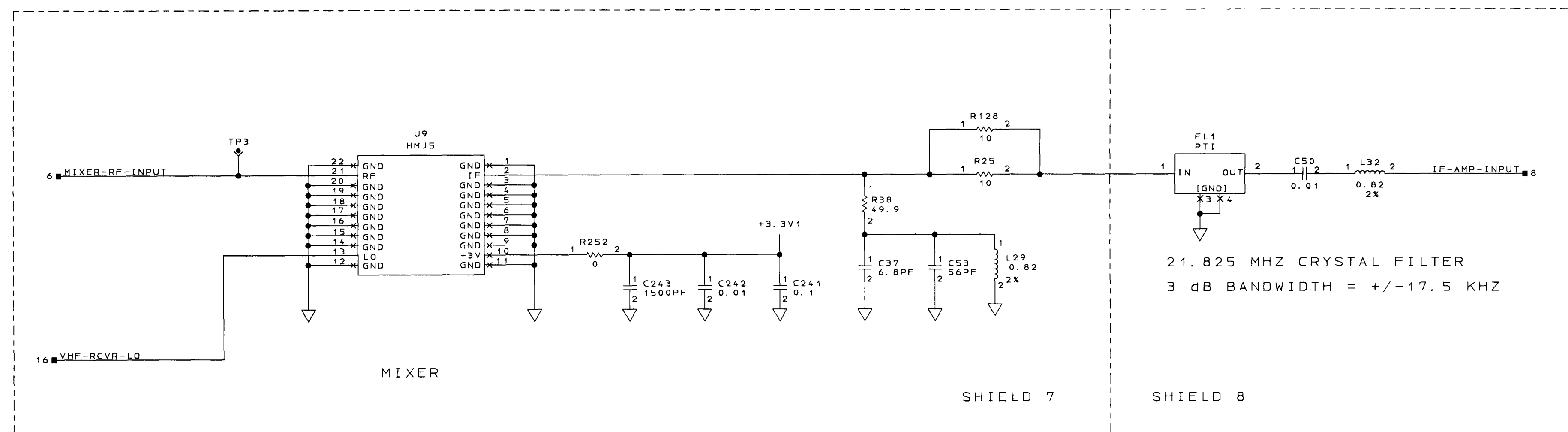
7026234-902



SECOND PRESELECTOR STAGE
SCHEMATIC DIAGRAM SHEET NO. 6

COMPUTER GENERATED

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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.		SCALE		SHEET 10	



MIXER AND CRYSTAL FILTER
SCHEMATIC DIAGRAM SHEET NO. 7

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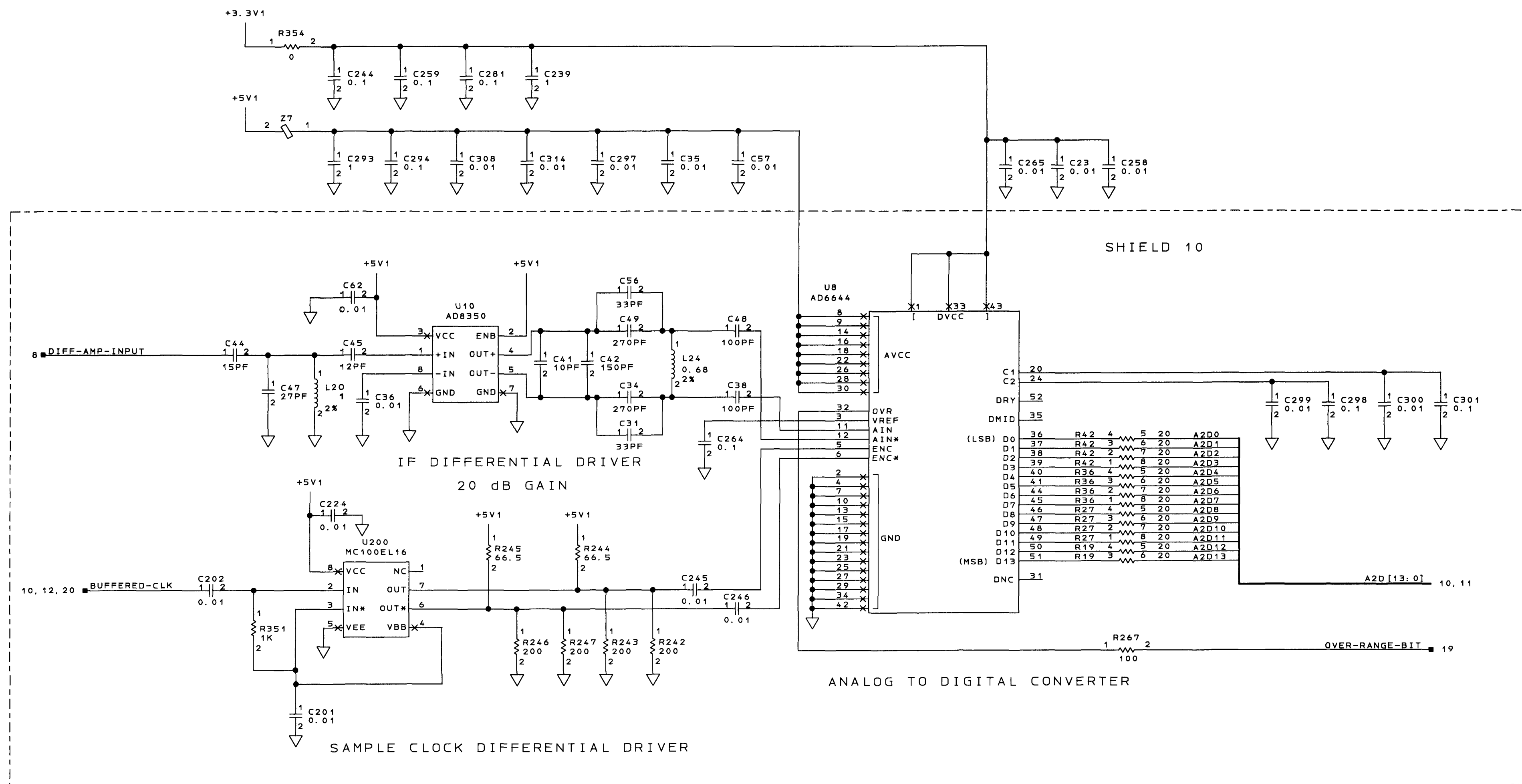
1-15-2002_14: 18 PAUL_COBLENTZ

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.	S S
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SIZE	CAGE CODE	DRAWING NO.	RE
E	55939	7026234-902	X
SCALE			SHEET 11

DWG NO. 7026234-902 SH 11

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	XD	REFDES U200; PIN 7 WAS CONN TO REFDES R245, PIN 6 WAS CONN TO REFDES R244. REFDES R42 (4PL), R36 (4PL), R27 (4PL), R19 (2PL), PN WAS 7026564-100, VAL WAS 100.		P. COBLENTZ
G7		REFDES R354 WAS REFDES Z200; PN WAS 7028383-600, VAL WAS 600 OHM. REFDES C48, C38; PN WAS 7022903-917 VAL WAS 0.01.		P. COBLENTZ
E5	XH			P. COBLENTZ

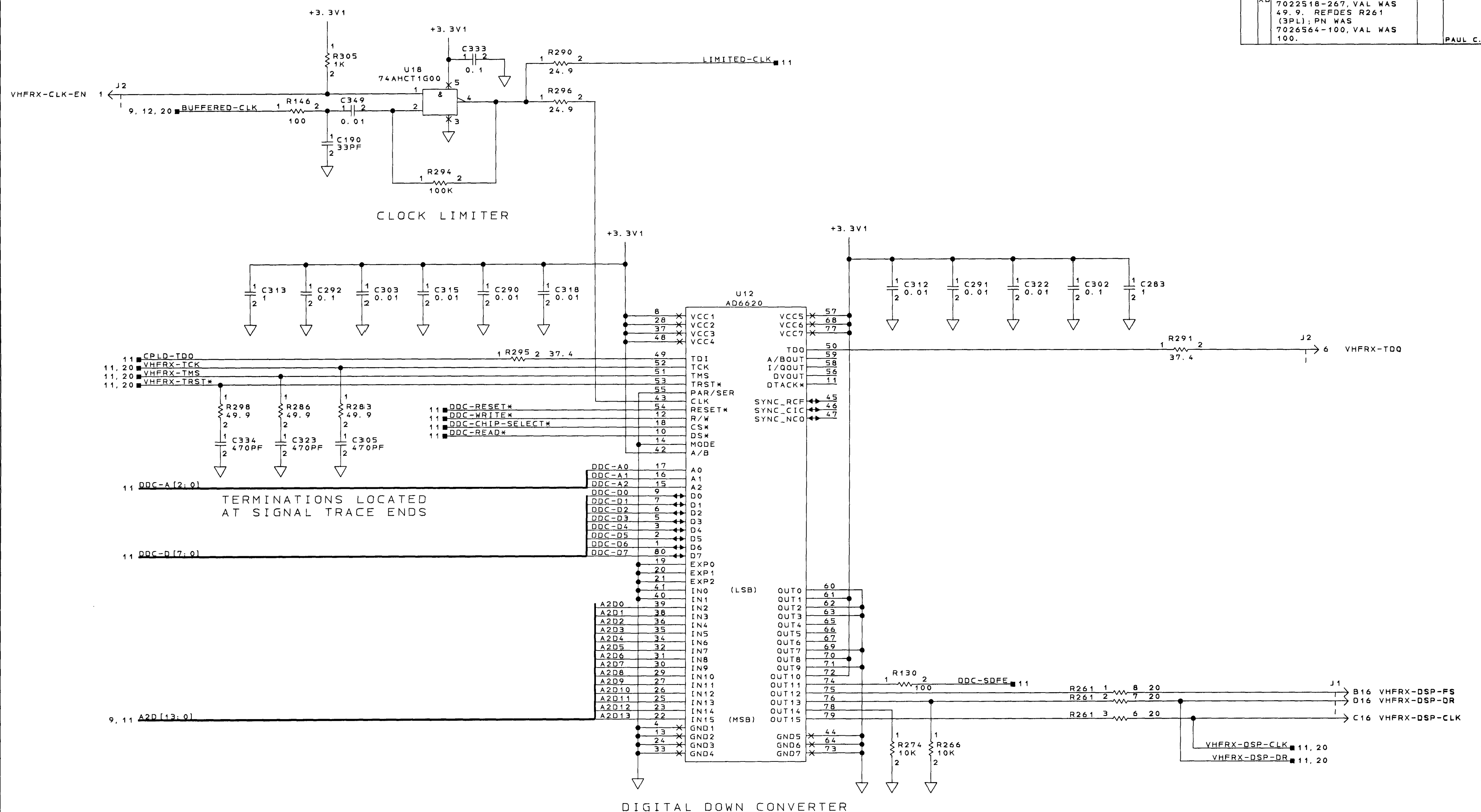


DIFFERENTIAL ADC DRIVER AMPLIFIER
ANALOG TO DIGITAL CONVERTER
SCHEMATIC DIAGRAM SHEET NO. 9

COMPUTER GENERATED

8-2-2002 12:45	PAUL COBLENTZ	SIZE	E 55939	DRAWING NO.	7026234-902	REV	XH
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.		SCALE		SHEET 13	

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
XD	1	SIG NAME BUFFERED-CLK WAS CONN TO REFDES C349; PIN 1. ADD REFDES R146 AND C190. REFDES R290, R296; PN WAS 7022518-267, VAL WAS 49.9. REFDES R261 (3PL); PN WAS 7026564-100, VAL WAS 100.		PAUL C.

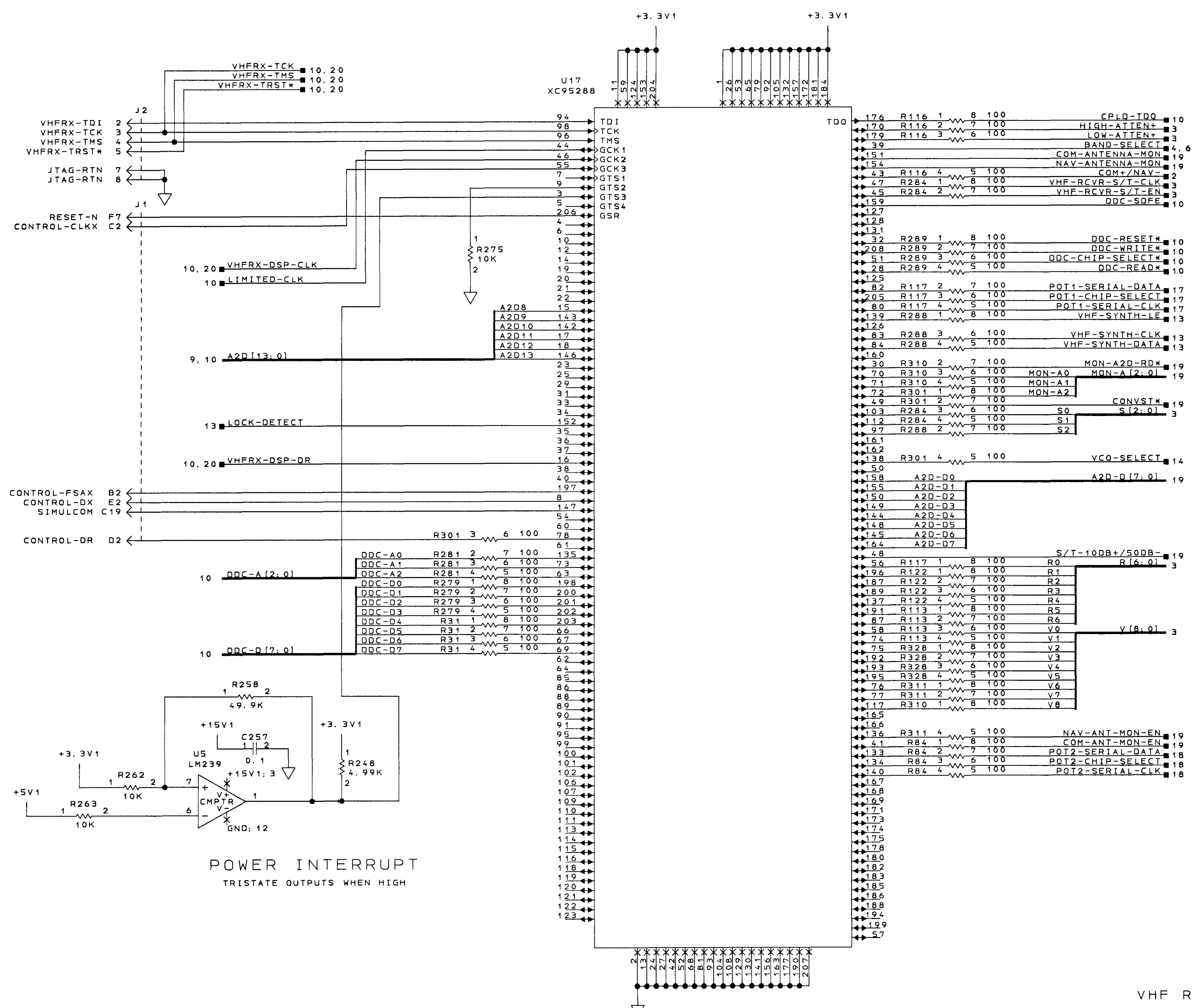


CLOCK LIMITER
DIGITAL DOWN CONVERTER
SCHEMATIC DIAGRAM SHEET NO. 10

COMPUTER GENERATED

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Honeywell			E	55939	7026234-902	XD
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.			SCALE			SHEET 14

REVISIONS			
ZONE	REV	DESCRIPTION	DATE
	XD	ADD REFDES R147.	
	XE	RMV REFDES R147; PN WAS 7500000-103, VAL WAS 10K.	

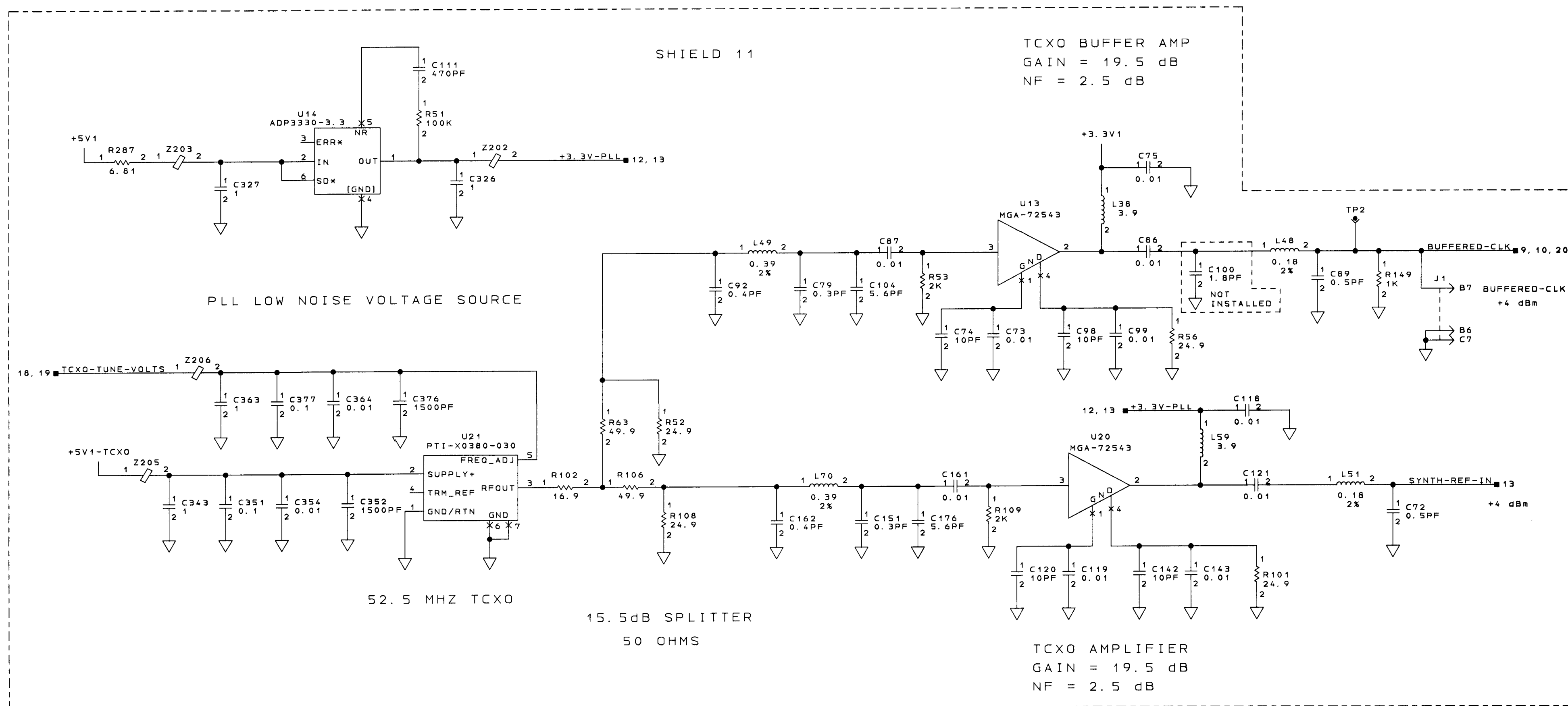


VHF RECEIVER CPLD
SCHEMATIC DIAGRAM SHEET NO. 11

COMPUTER GENERATED

1-15-2002 14:18	PAUL COBLENTZ	SIZE	E 55939	DRAWING NO.	7026234-902	REV	XE
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.		SCALE		SHEET 15	

REVISIONS			
ZONE	REV	DESCRIPTION	DATE
	XE	ADD REFDES R149.	
			PAUL C.

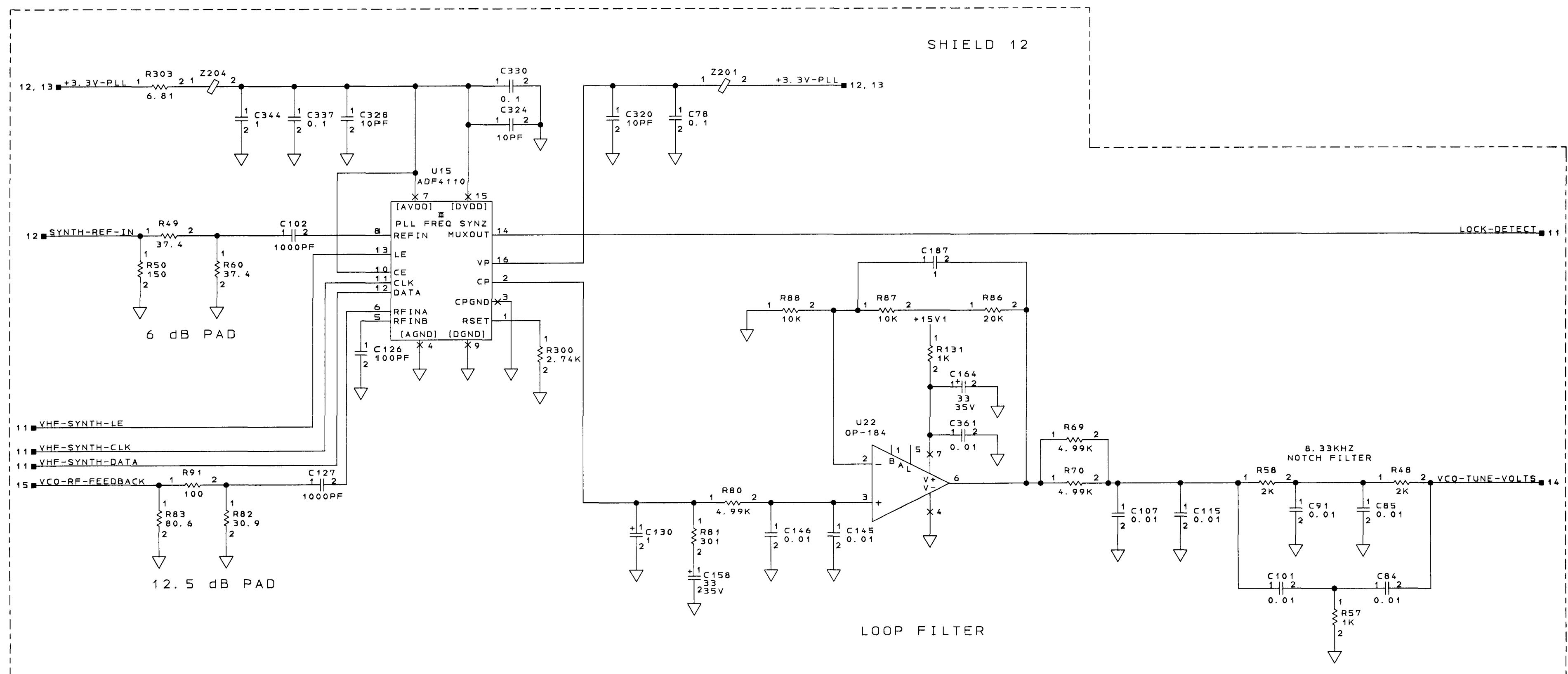


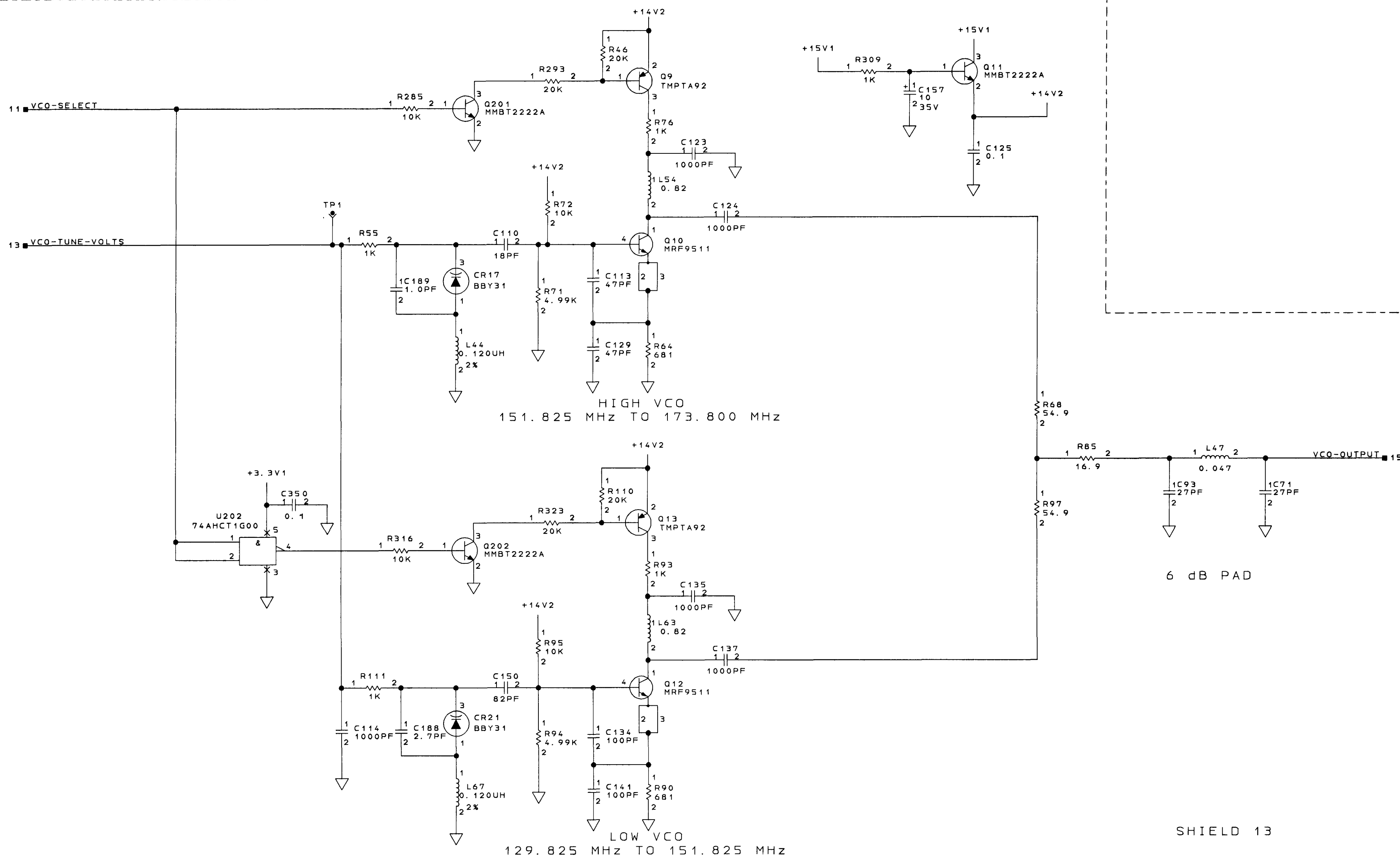
SYSTEM CLOCK AND BUFFERS
SCHEMATIC DIAGRAM SHEET NO. 12

COMPUTER GENERATED

1-15-2002, 14:18	PAUL COBLENTZ	SIZE	CAGE CODE	DRAWING NO.	REV
Honeywell		E	55939	7026234-902	XE
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.		SCALE		SHEET 16	

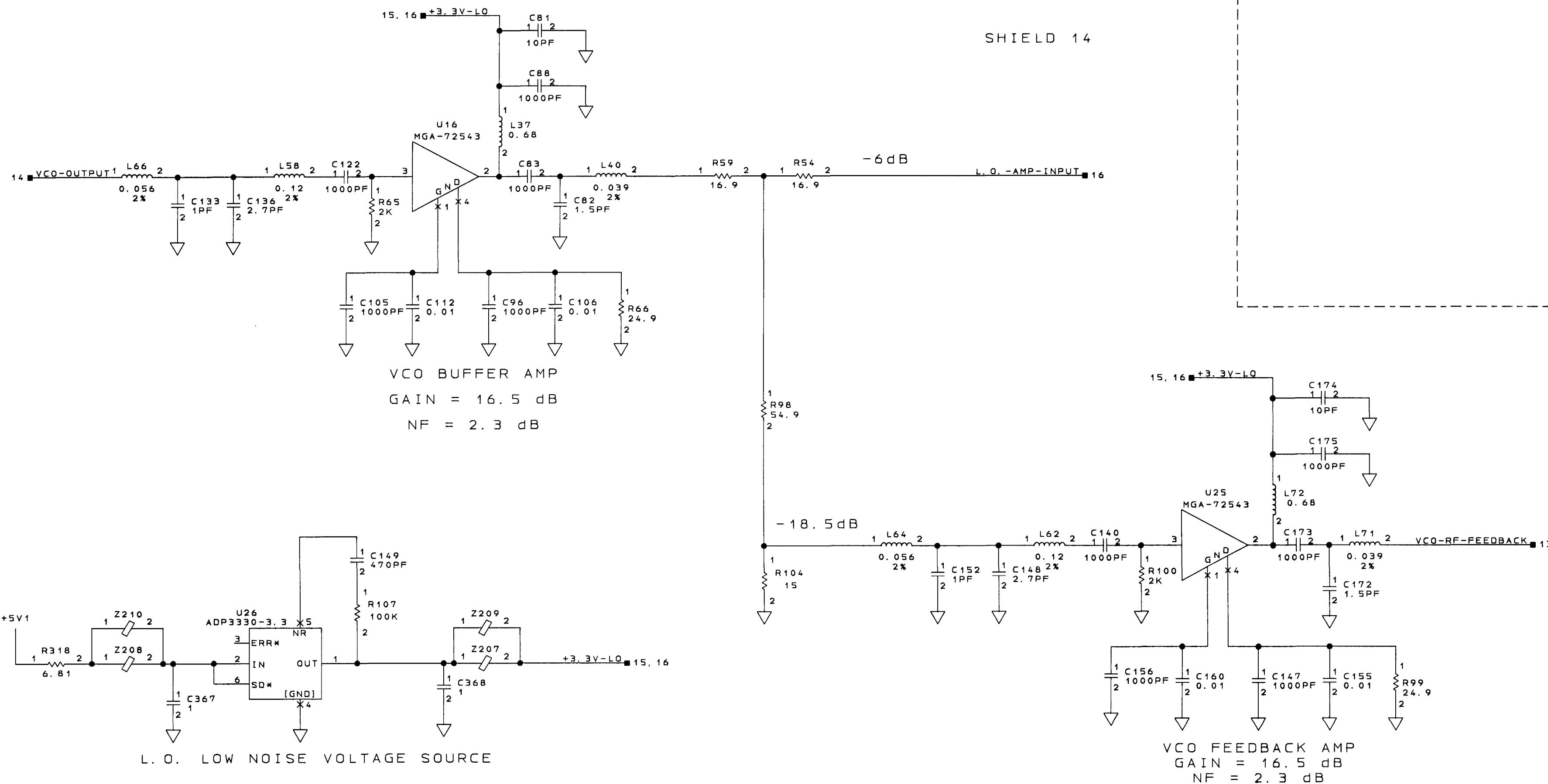
REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	XF	PARTS LIST DATA BASE CHANGE ONLY. SEE DWG SHEET 1.		A. WEISBECK





VOLTAGE CONTROLLED OSCILLATOR
SCHEMATIC DIAGRAM SHEET NO. 14

COMPUTER GENERATED

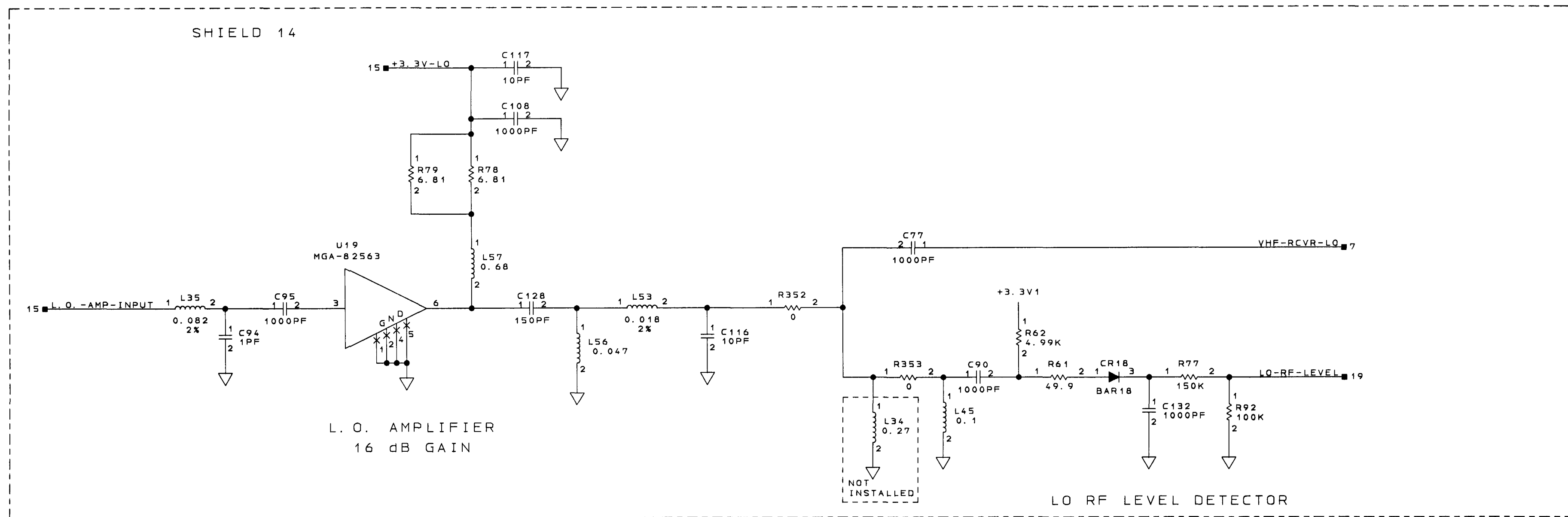


VCO BUFFER AMPLIFIERS
SCHEMATIC DIAGRAM SHEET NO. 15

COMPUTER GENERATED

1-15-2002 14:18	PAUL COBLENTZ	SIZE/CAGE CODE	DRAWING NO.	REV
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.	E 55939	7026234-902	XC
SCALE		SHEET 19		

REVISIONS			
ZONE	REV	DESCRIPTION	DATE
XD		REFDES R353; PN WAS 0TBA-201. TITLE ABOVE SHIELD 14 WAS L.O. SWITCH LEVEL SHIFTER.	PAUL C.
XF		PARTS LIST DATA BASE CHANGE. R77 AND R92 WERE 200K. SEE DWG SHEET 1.	B. REISBECK

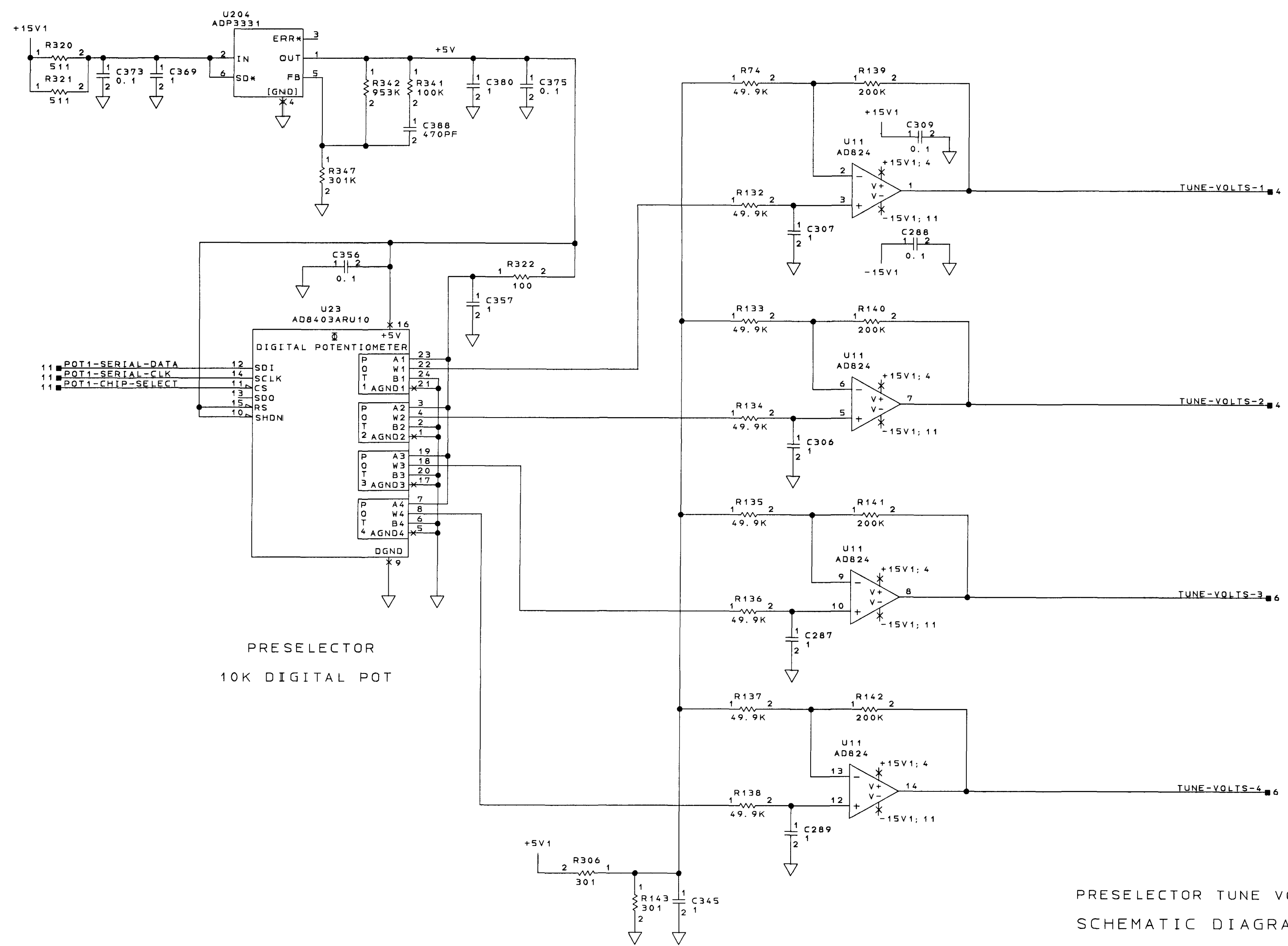


L.O. AMPLIFIER AND SWITCH
SCHEMATIC DIAGRAM SHEET NO. 16

COMPUTER GENERATED

1-15-2002 14:39	PAUL COBLENTZ	SIZE	E 55939	DRAWING NO.	7026234-902	REV	XF
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.		SCALE		SHEET 20	

REVISIONS			
ZONE	REV	DESCRIPTION	DATE

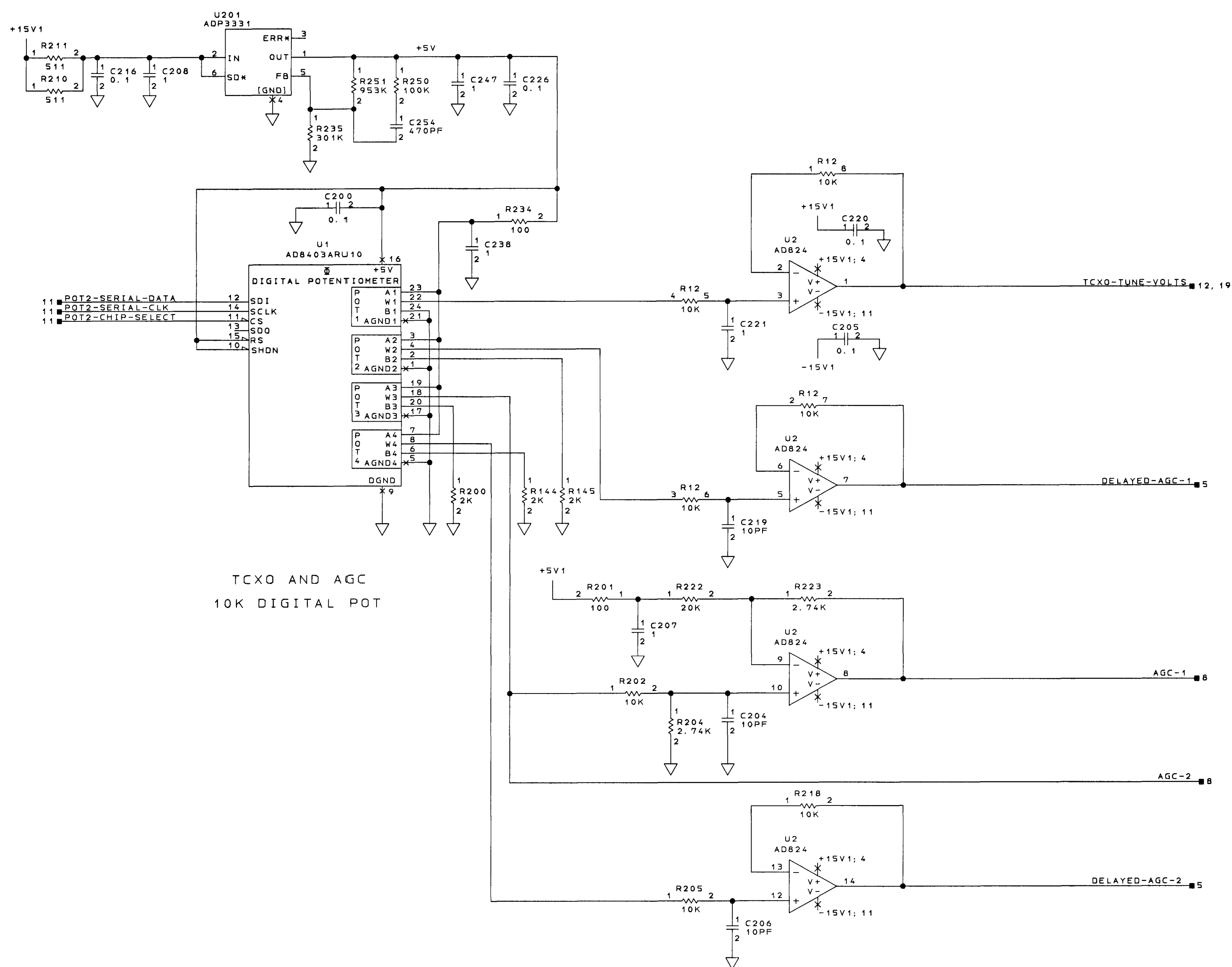


PRESECTOR
10K DIGITAL POT

PRESECTOR TUNE VOLTS AMPLIFIERS
SCHEMATIC DIAGRAM SHEET NO. 17

COMPUTER GENERATED

1-15-2002 14:18	PAUL COBLENTZ	SIZE CODE	DRAWING NO.	REV
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.	E 55939	7026234-902	XC
		SCALE		SHEET 21

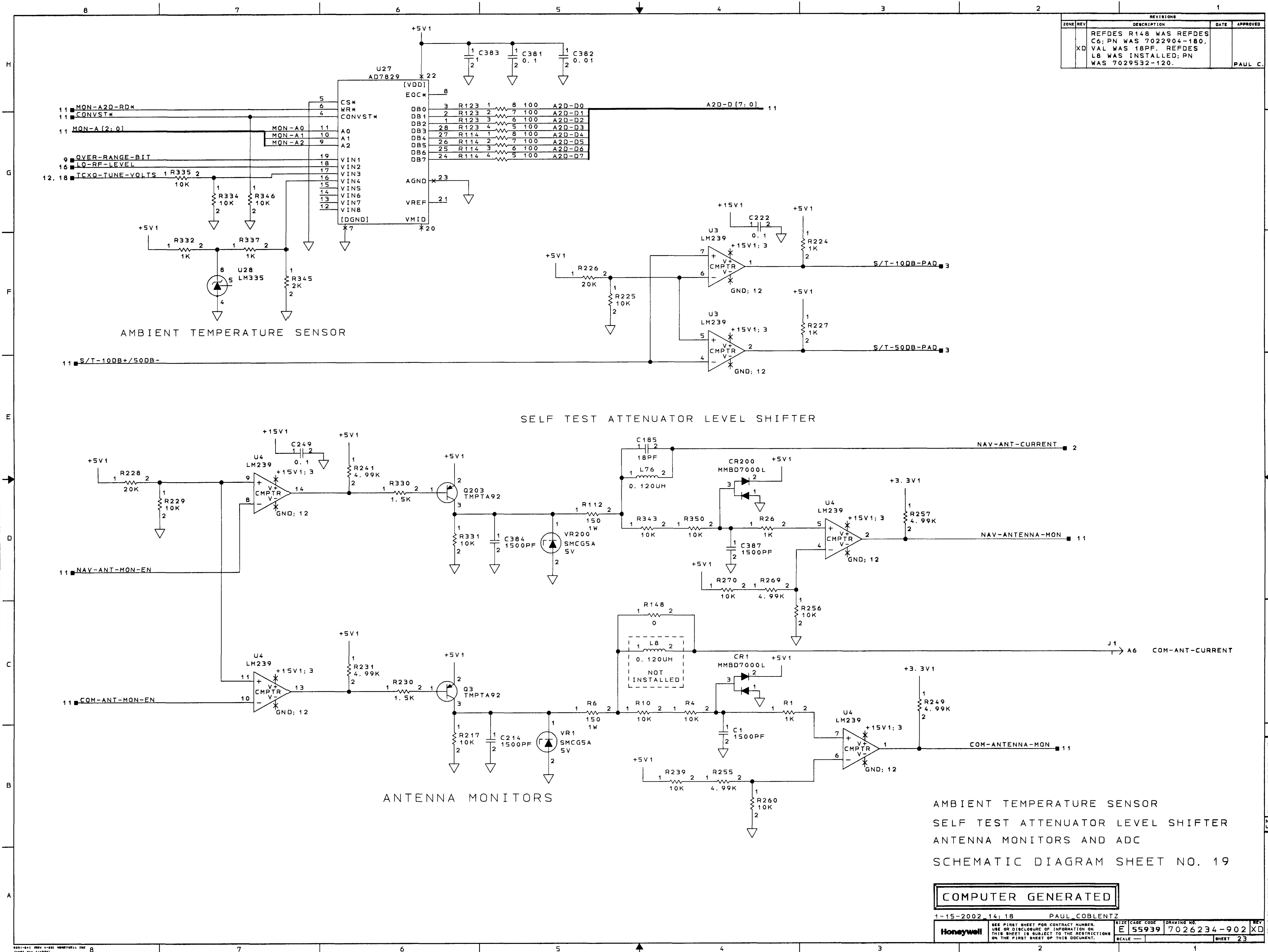


TCXO AND AGC
10K DIGITAL POT

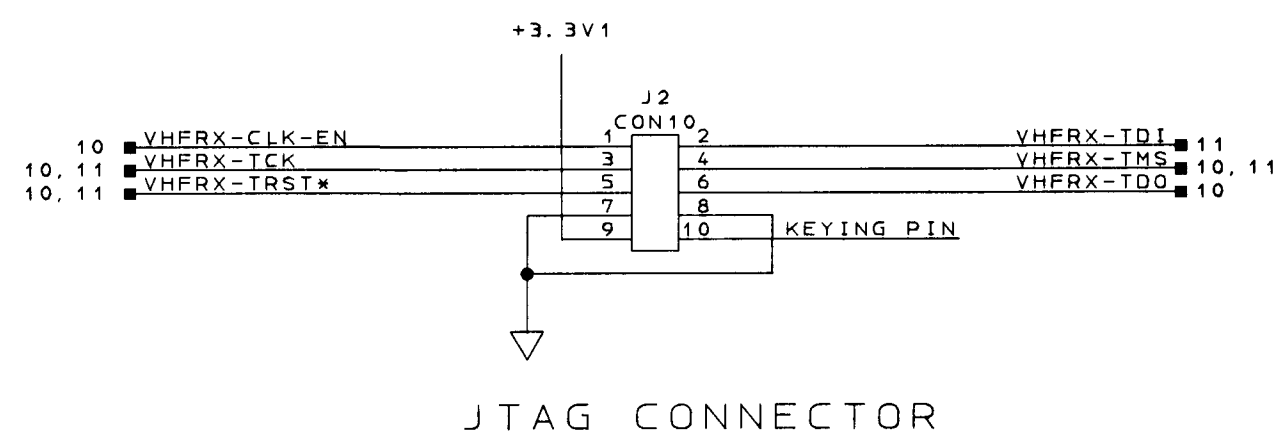
TCXO TUNE VOLTS AMP
AGC AMPS
SCHEMATIC DIAGRAM SHEET NO. 18

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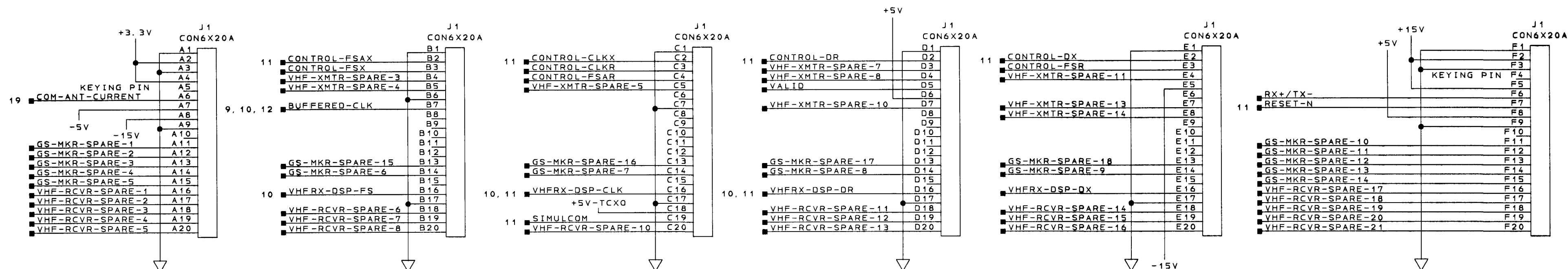
REVISIONS			
ZONE	REV	DESCRIPTION	DATE
XD	1	REFDES R148 WAS REFDES C6; PN WAS 7022904-180, VAL WAS 18PF. REFDES LB WAS INSTALLED; PN WAS 7029532-120.	PAUL C.



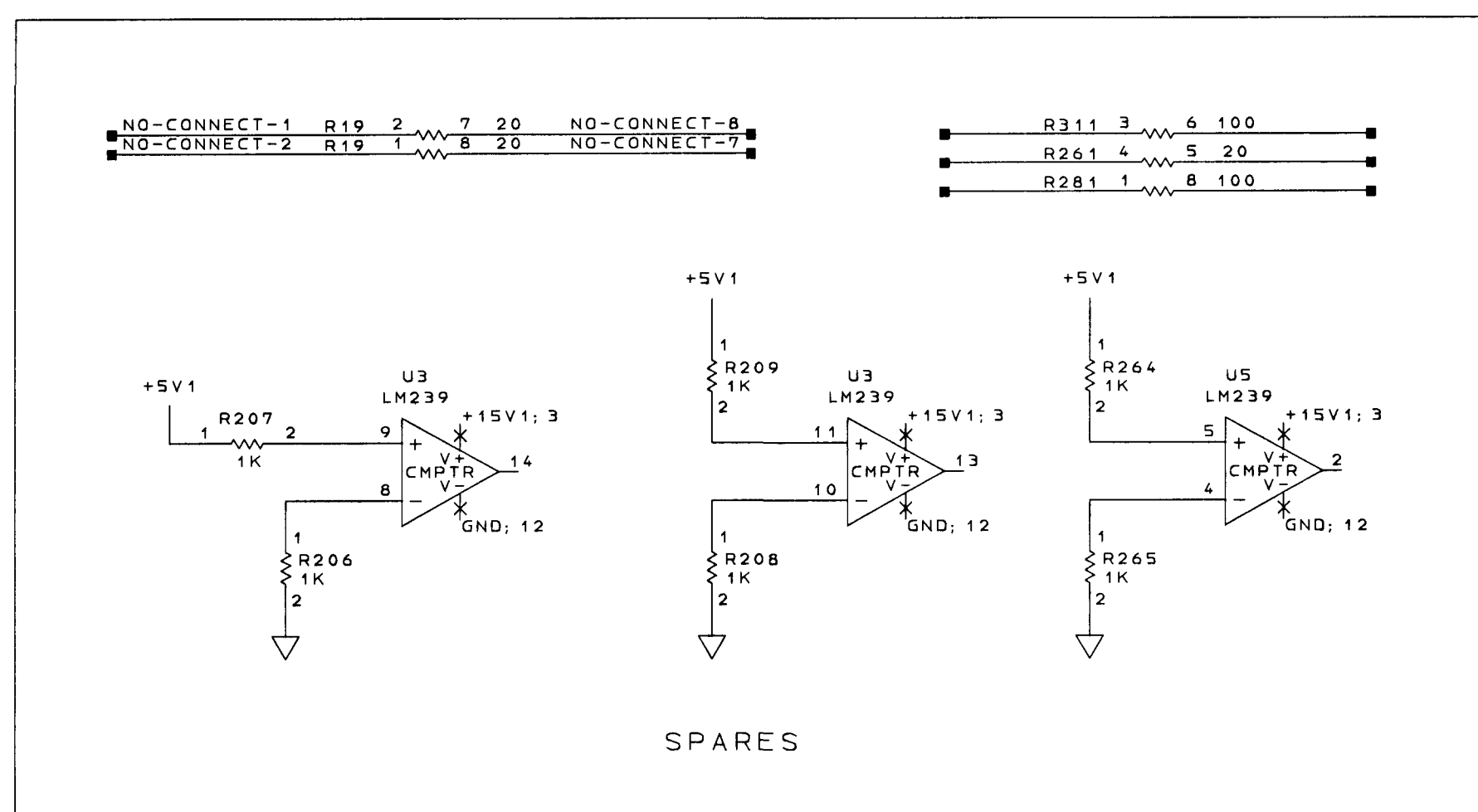
REVISIONS			
ZONE	REV	DESCRIPTION	DATE
XD	1	REFDES R19 (2PL), R261; PN WAS 7026564-100, VAL WAS 100.	PAUL C.



JTAG CONNECTOR



120 PIN (6 X 20) CONNECTOR



SPARES

CONNECTOR PIN SUMMARY
AND SPARE COMPONENTS
CAD REFERENCE/REQUIREMENT
SCHEMATIC DIAGRAM SHEET NO. 20

COMPUTER GENERATED

1-15-2002, 14:18	PAUL COBLENTZ	SIZE	E	CAGE CODE	55939	DRAWING NO.	7026234-902	REV	XD
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.	SCALE						SHEET	24