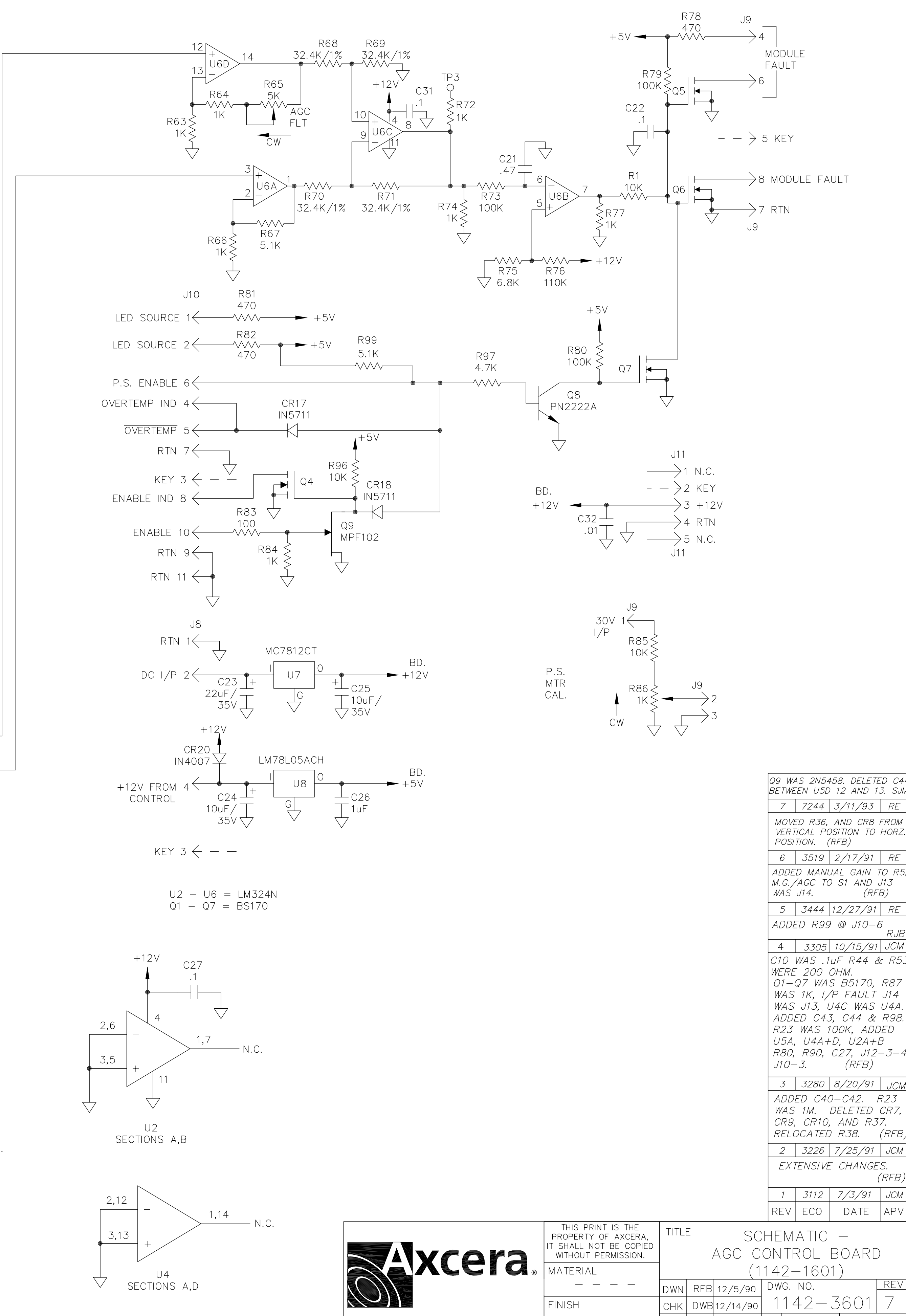
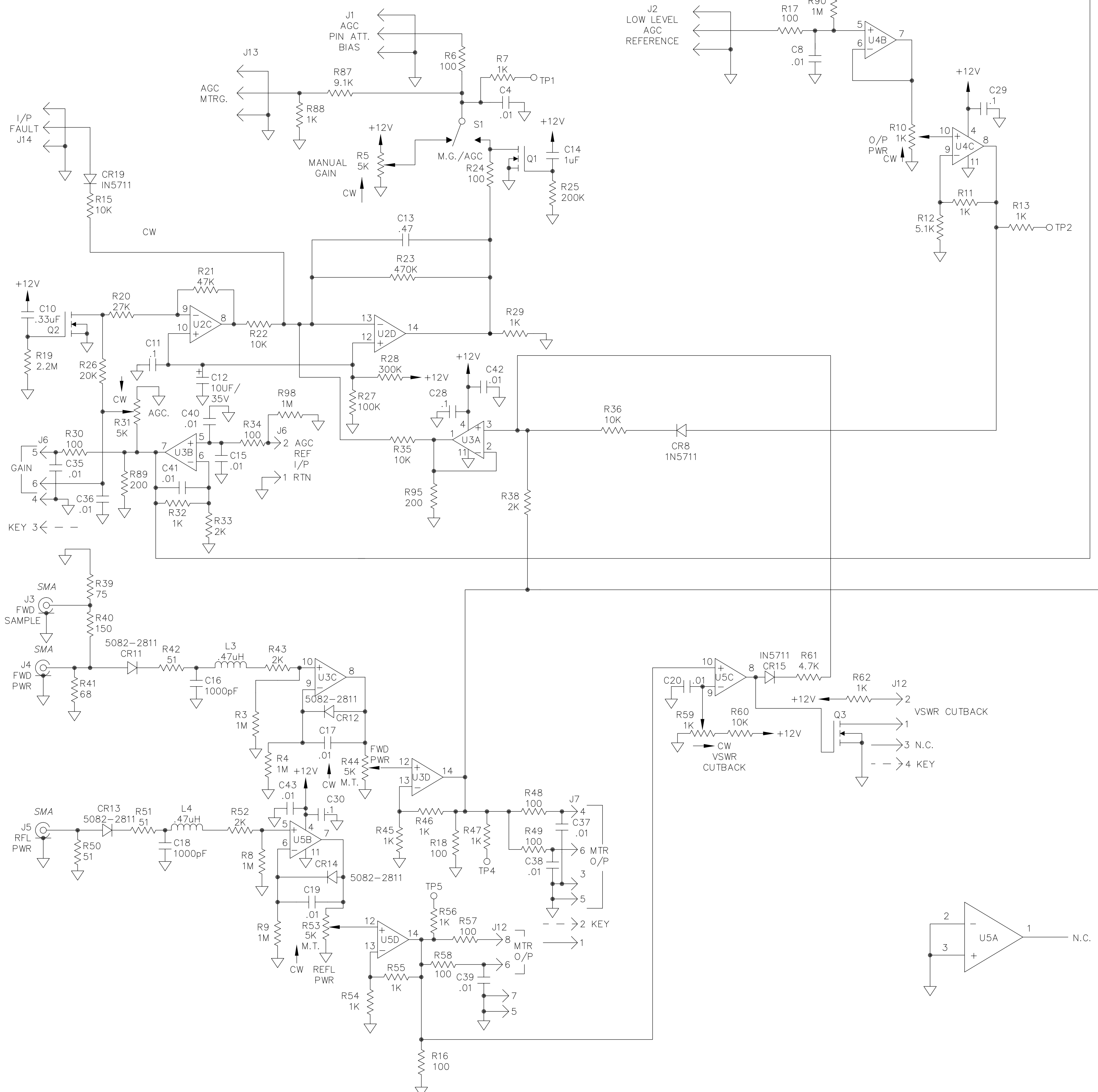




09	WAS 2N5458. DELETED C44 BETWEEN USD 12 AND 13. SJM
7	7244 3/11/93 RE
MOVED R36, AND CR8 FROM VERTICAL POSITION TO HORZ. POSITION. (RFB)	
6	3519 2/17/91 RE
ADDED MANUAL GAIN TO R5, M.G./AGC TO S1 AND J13 WAS J14. (RFB)	
5	3444 12/27/91 RE
ADDED R99 @ J10-6 RJB	
4	3305 10/15/91 JCM
C10 WAS .1uF R44 & R53 WERE 200 OHM. Q1-Q7 WAS B5170, R87 WAS 1K, I/P FAULT J14 WAS J13, U4C WAS U4A. ADDED C43, C44 & R98. R23 WAS 100K, ADDED U5A, U4A+D, U2A+B, R80, R90, C27, J12-3-4, J10-3. (RFB)	
ADDED C40-C42. R23 WAS 1M. DELETED CR7, CR9, CR10, AND R37. RELOCATED R38. (RFB)	
2	3226 7/25/91 JCM
EXTENSIVE CHANGES. (RFB)	
1	3112 7/3/91 JCM
REV	ECO DATE APV



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MATERIAL
FINISH

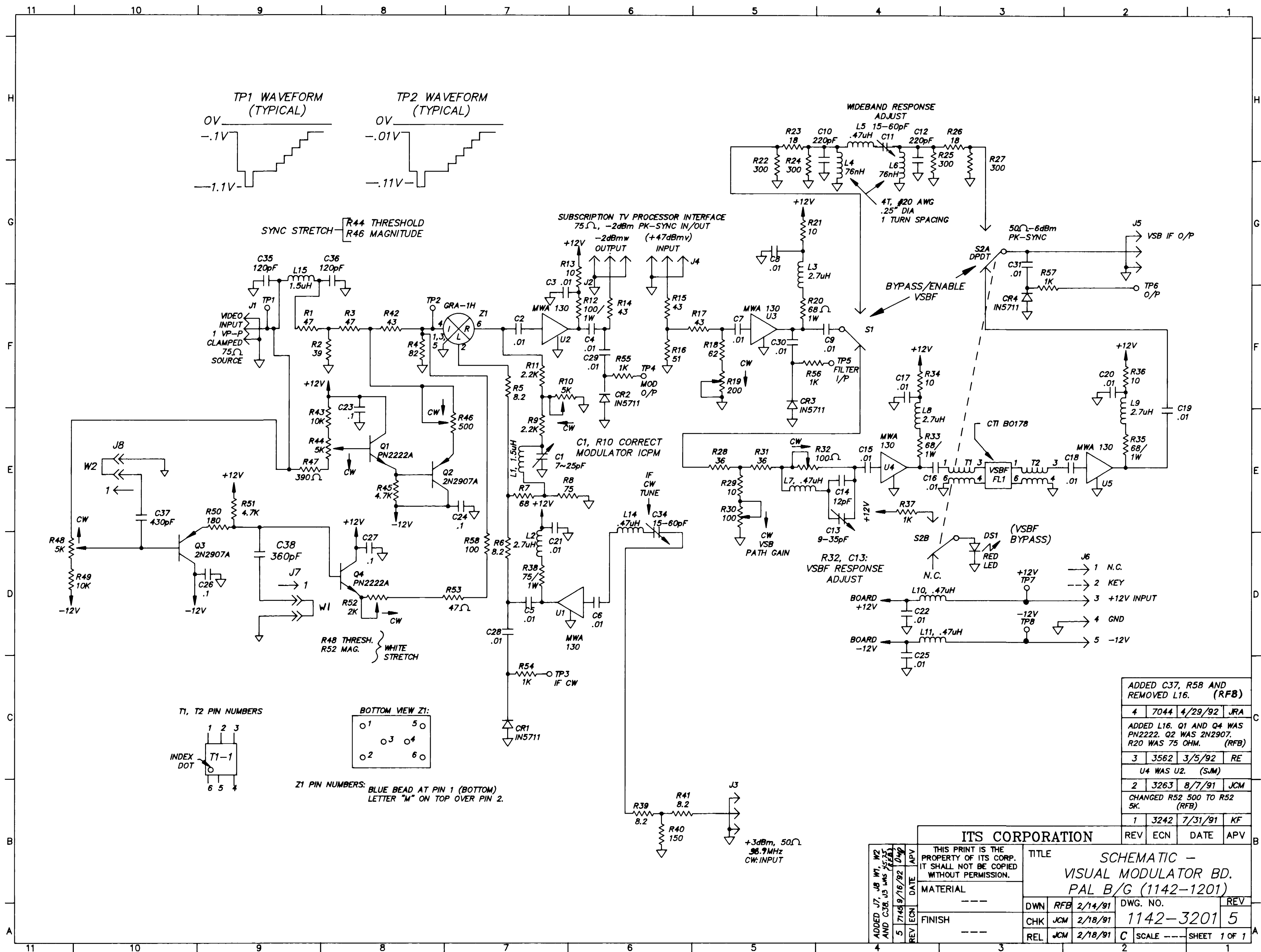
TITLE
SCHEMATIC -
AGC CONTROL BOARD
(1142-1601)

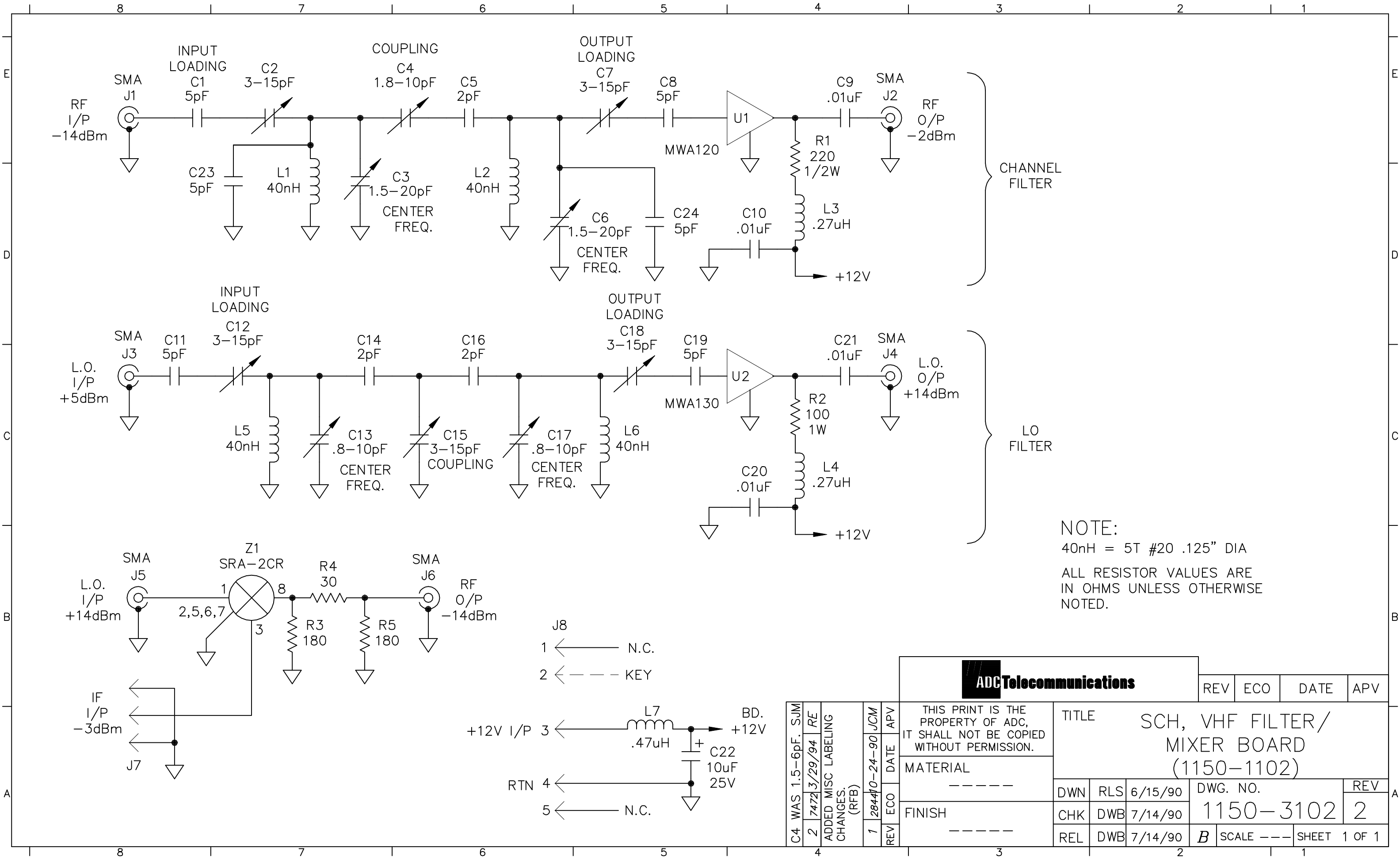
DWN RFB 12/5/90
CHK DWB 12/14/90
REL DWB 12/14/90

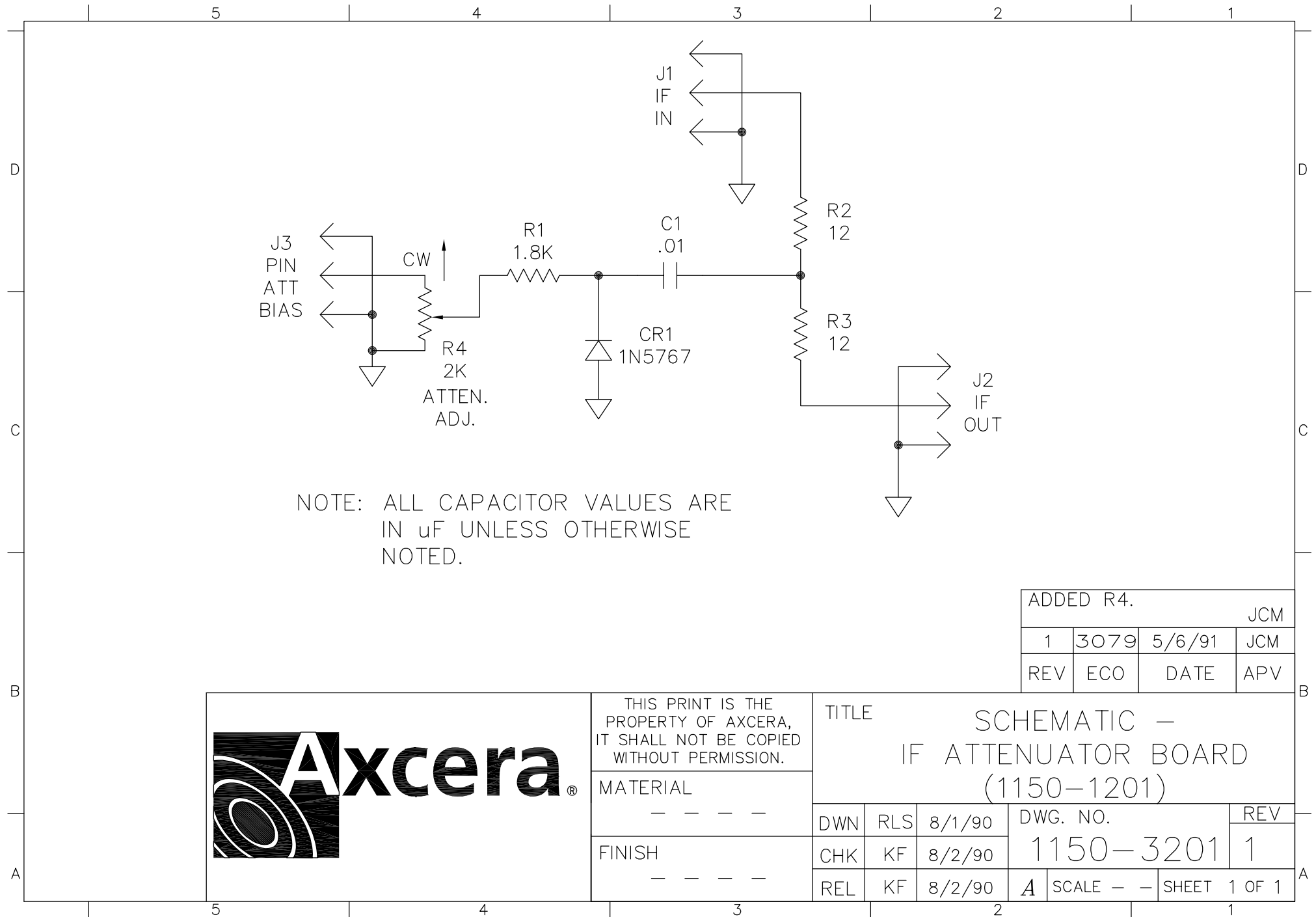
DWG. NO.
1142-3601

REV
7

SCALE - - SHEET 1 OF 1







ADDED R4.				JCM
1	3079	5/6/91	JCM	
REV	ECO	DATE	APV	



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MATERIAL

— — — —

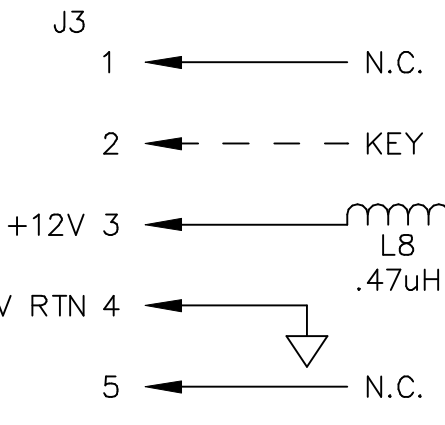
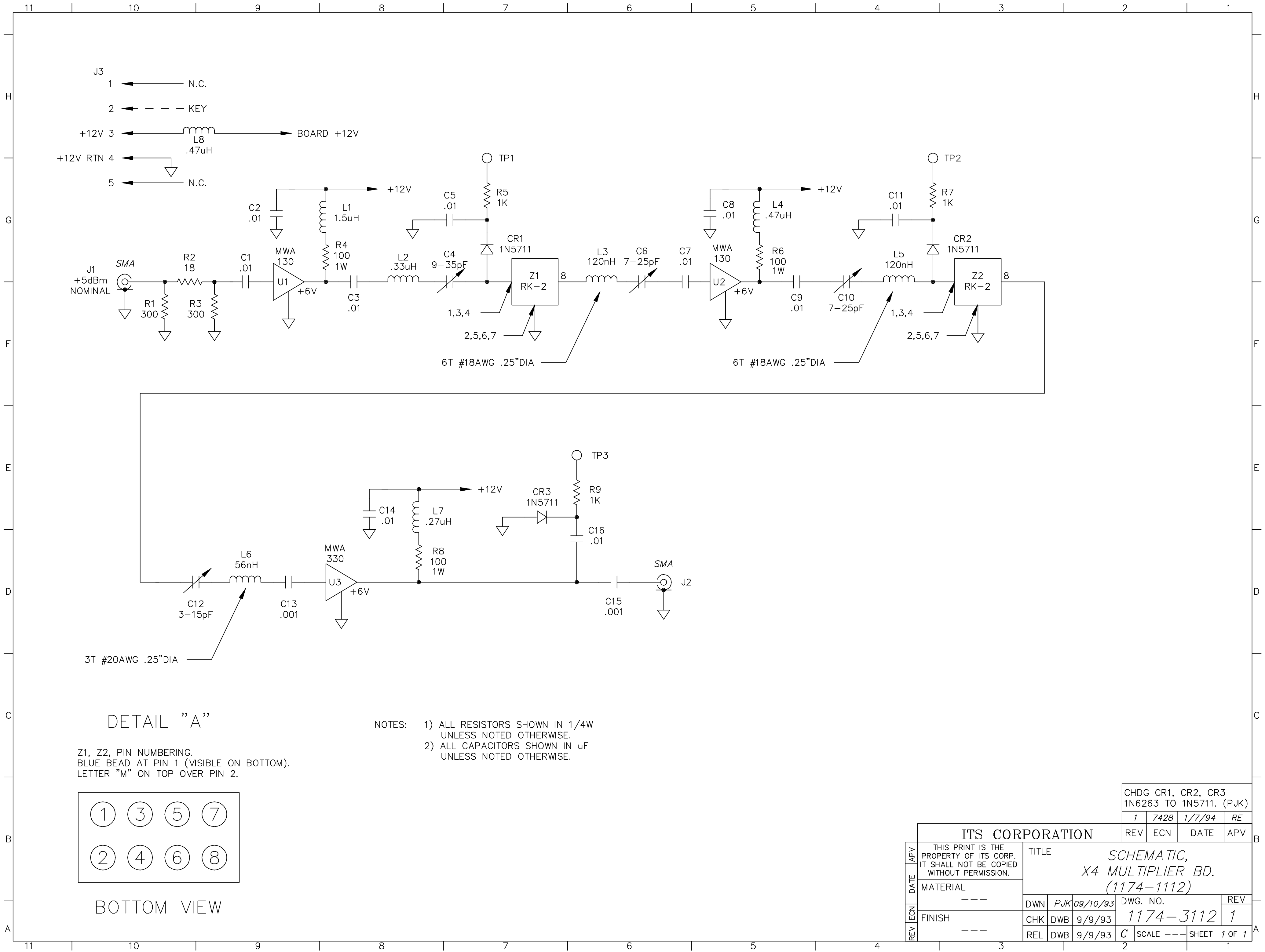
FINISH

— — — —

TITLE

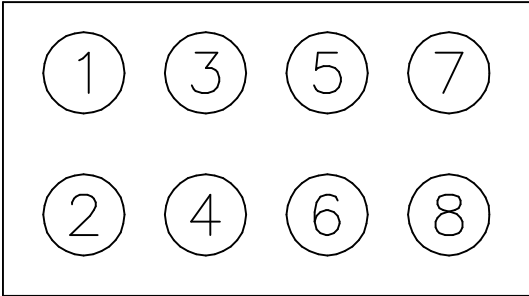
SCHEMATIC —
IF ATTENUATOR BOARD
(1150-1201)

DWN	RLS	8/1/90	DWG. NO.		REV
CHK	KF	8/2/90	1150-3201		1
REL	KF	8/2/90	A	SCALE —	SHEET 1 OF 1



DETAIL "A"

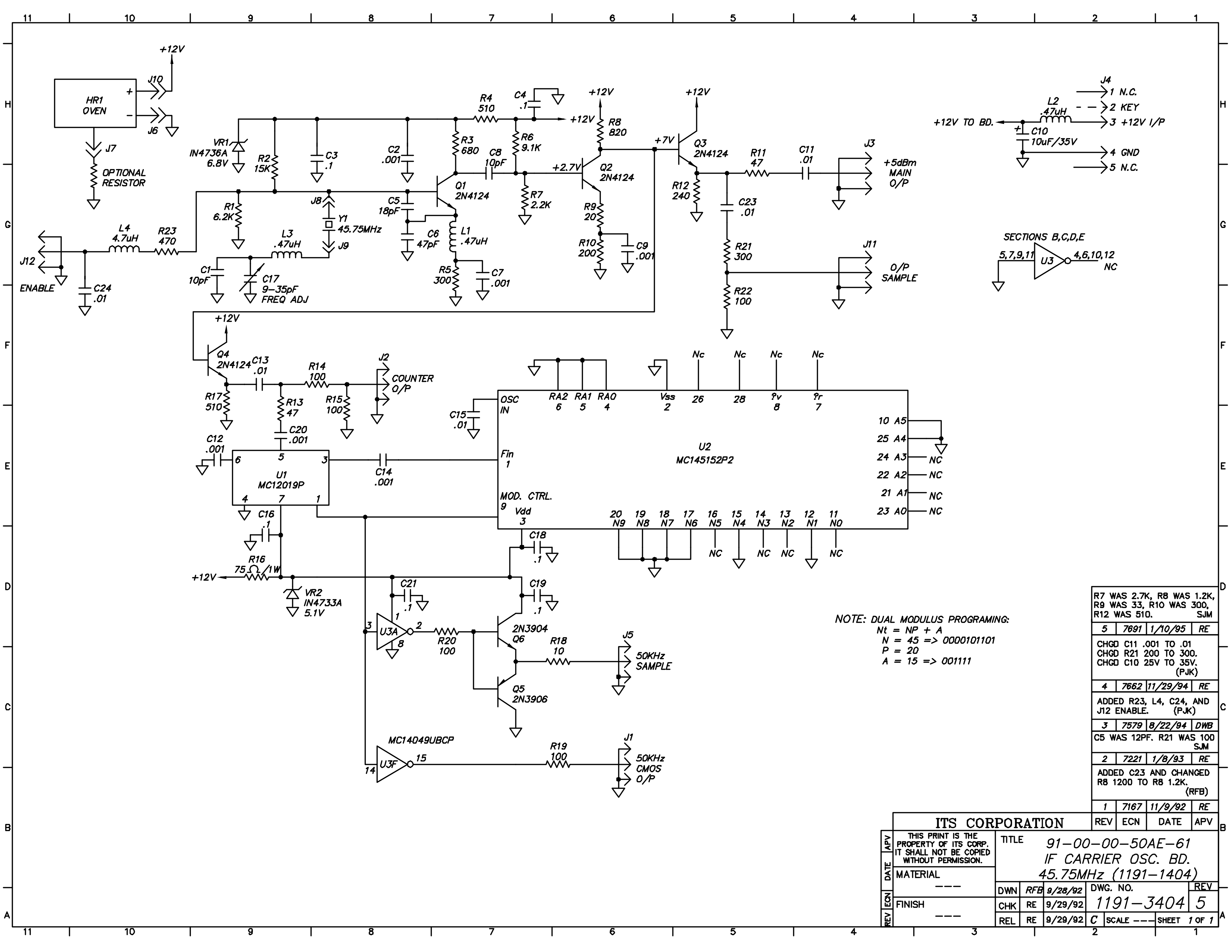
Z1, Z2, PIN NUMBERING.
BLUE BEAD AT PIN 1 (VISIBLE ON BOTTOM).
LETTER "M" ON TOP OVER PIN 2.



BOTTOM VIEW

- NOTES:
- 1) ALL RESISTORS SHOWN IN 1/4W UNLESS NOTED OTHERWISE.
 - 2) ALL CAPACITORS SHOWN IN uF UNLESS NOTED OTHERWISE.

CHDG CR1, CR2, CR3 1N6263 TO 1N5711. (PJK)			
1	7428	1/7/94	RE
REV	ECN	DATE	APV
ITS CORPORATION			
THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.		TITLE SCHEMATIC, X4 MULTIPLIER BD. (1174-1112)	
DATE	MATERIAL	DWN PJK 09/10/93	
ECN	FINISH	CHK DWB 9/9/93	
REV	REL	DWB 9/9/93	
DWG. NO. 1174-3112		REV 1	
SCALE ---		SHEET 1 OF 1	



NOTE: DUAL MODULUS PROGRAMMING:
Nt = NP + A
N = 45 => 0000101101
P = 20
A = 15 => 001111

R7 WAS 2.7K, R8 WAS 1.2K,
R9 WAS 33, R10 WAS 300,
R12 WAS 510. SJM

5	7691	1/10/95	RE
---	------	---------	----

CHGD C11 .001 TO .01
CHGD R21 200 TO 300.
CHGD C10 25V TO 35V.
(PJK)

4	7662	11/29/94	RE
---	------	----------	----

ADDED R23, L4, C24, AND
J12 ENABLE. (PJK)

3	7579	8/22/94	DWB
---	------	---------	-----

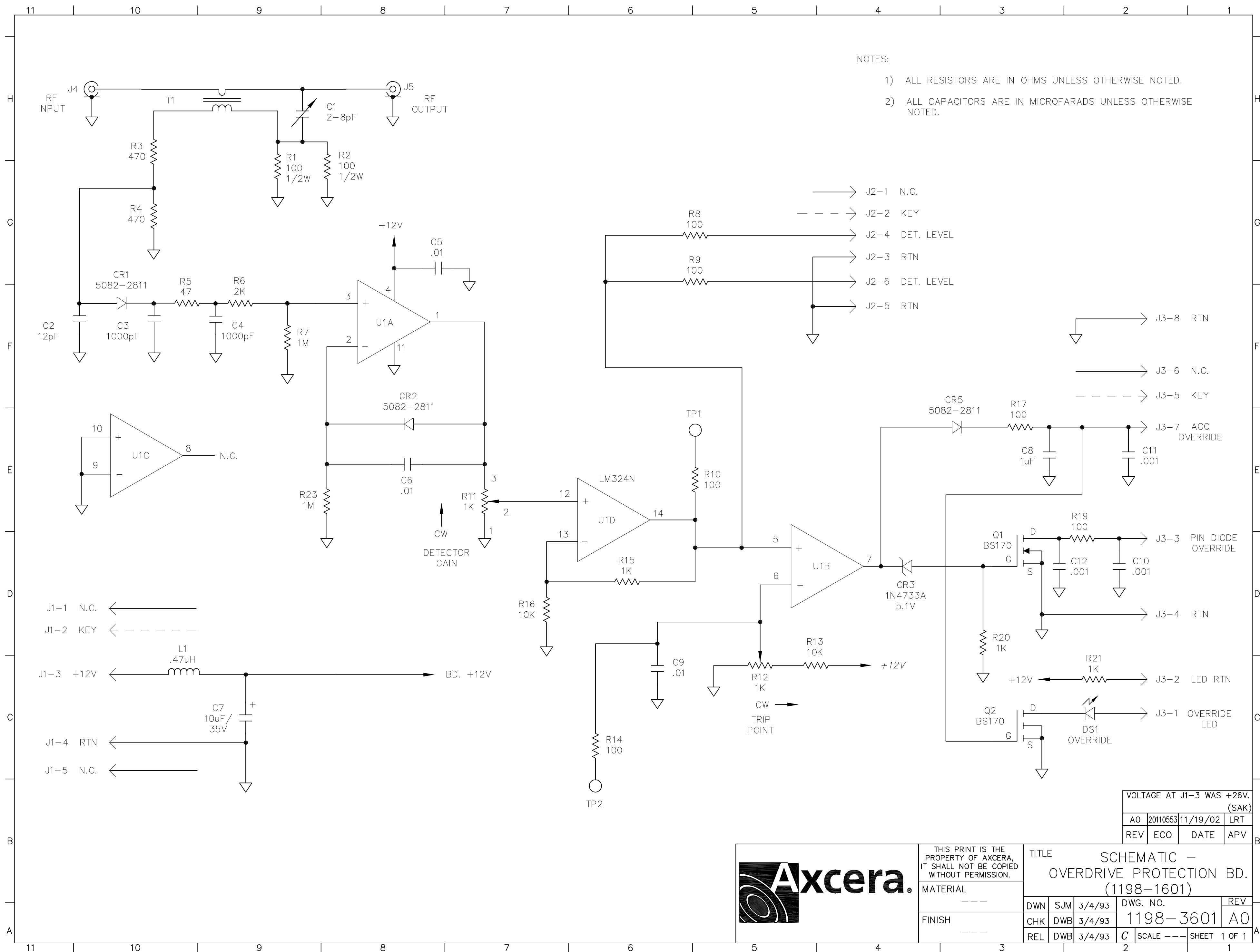
C5 WAS 12PF. R21 WAS 100
SJM

2	7221	1/8/93	RE
---	------	--------	----

ADDED C23 AND CHANGED
R8 1200 TO R8 1.2K.
(RFB)

1	7167	11/9/92	RE
---	------	---------	----

ITS CORPORATION				REV	ECN	DATE	APV
THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.				TITLE			
				91-00-00-50AE-61 IF CARRIER OSC. BD. 45.75MHz (1191-1404)			
MATERIAL				DWN	RFB	9/28/92	DWG. NO.
FINISH				CHK	RE	9/29/92	1191-3404
				REL	RE	9/29/92	C
				SCALE		SHEET 1 OF 1	



- NOTES:
- 1) ALL RESISTORS ARE IN OHMS UNLESS OTHERWISE NOTED.
 - 2) ALL CAPACITORS ARE IN MICROFARADS UNLESS OTHERWISE NOTED.

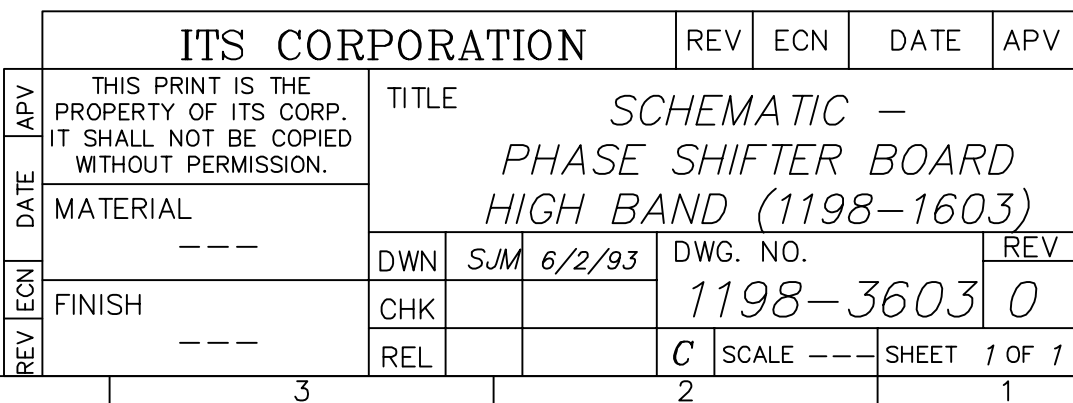
- > J2-1 N.C.
- - - -> J2-2 KEY
- > J2-4 DET. LEVEL
- > J2-3 RTN
- > J2-6 DET. LEVEL
- > J2-5 RTN

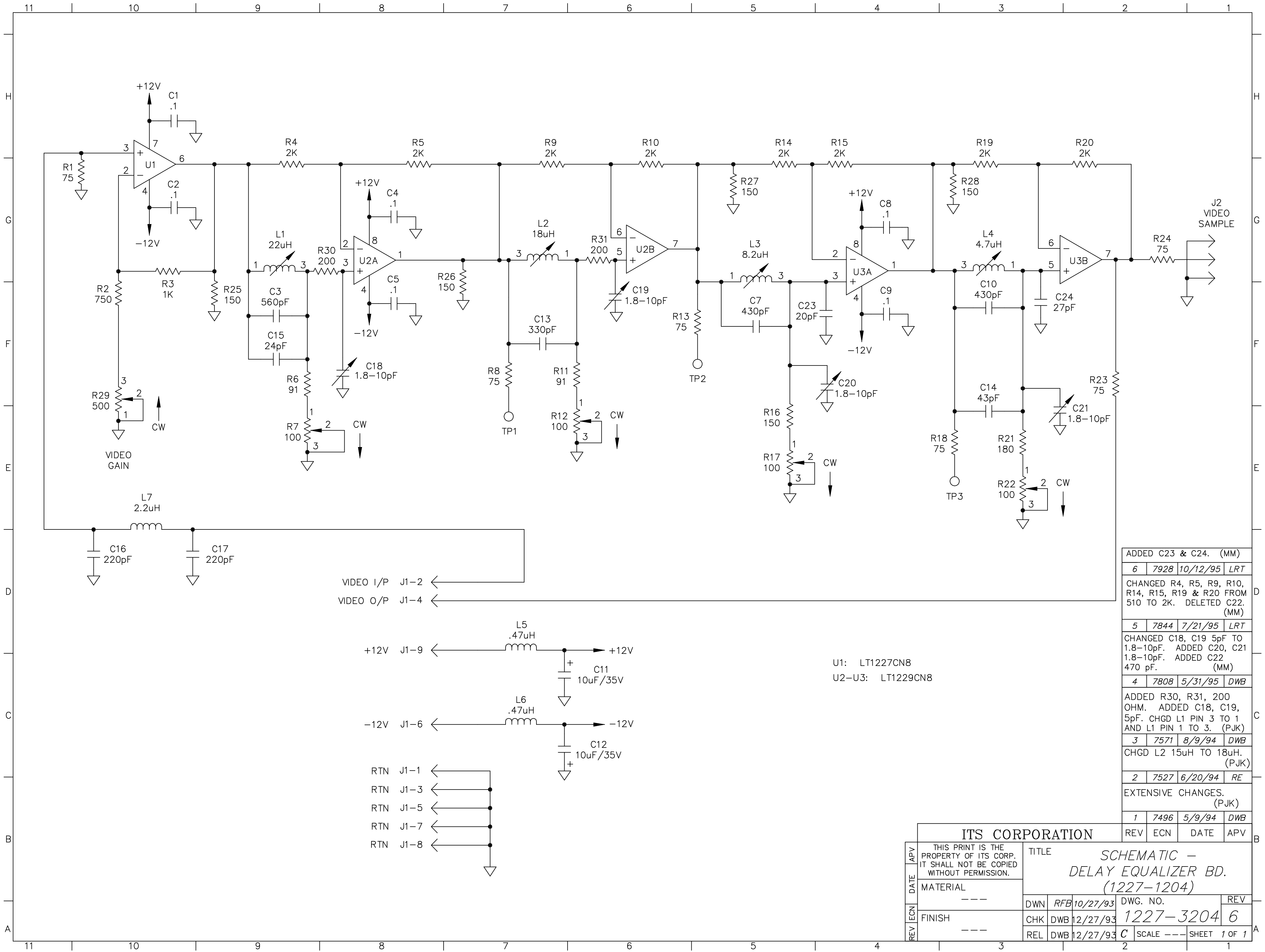
- > J3-8 RTN
- > J3-6 N.C.
- - - -> J3-5 KEY

- < J1-1 N.C.
- - - -< J1-2 KEY
- < J1-3 +12V
- < J1-4 RTN
- < J1-5 N.C.

VOLTAGE AT J1-3 WAS +26V. (SAK)			
AO	20110553	11/19/02	LRT
REV	ECO	DATE	APV

	THIS PRINT IS THE PROPERTY OF AXCERA, IT SHALL NOT BE COPIED WITHOUT PERMISSION.		TITLE					SCHEMATIC – OVERDRIVE PROTECTION BD. (1198–1601)				
	MATERIAL ---		DWN	SJM	3/4/93	DWG. NO.			REV			
	FINISH ---		CHK	DWB	3/4/93	1198–3601			A0			
			REL	DWB	3/4/93	C	SCALE	---	SHEET	1 OF 1		

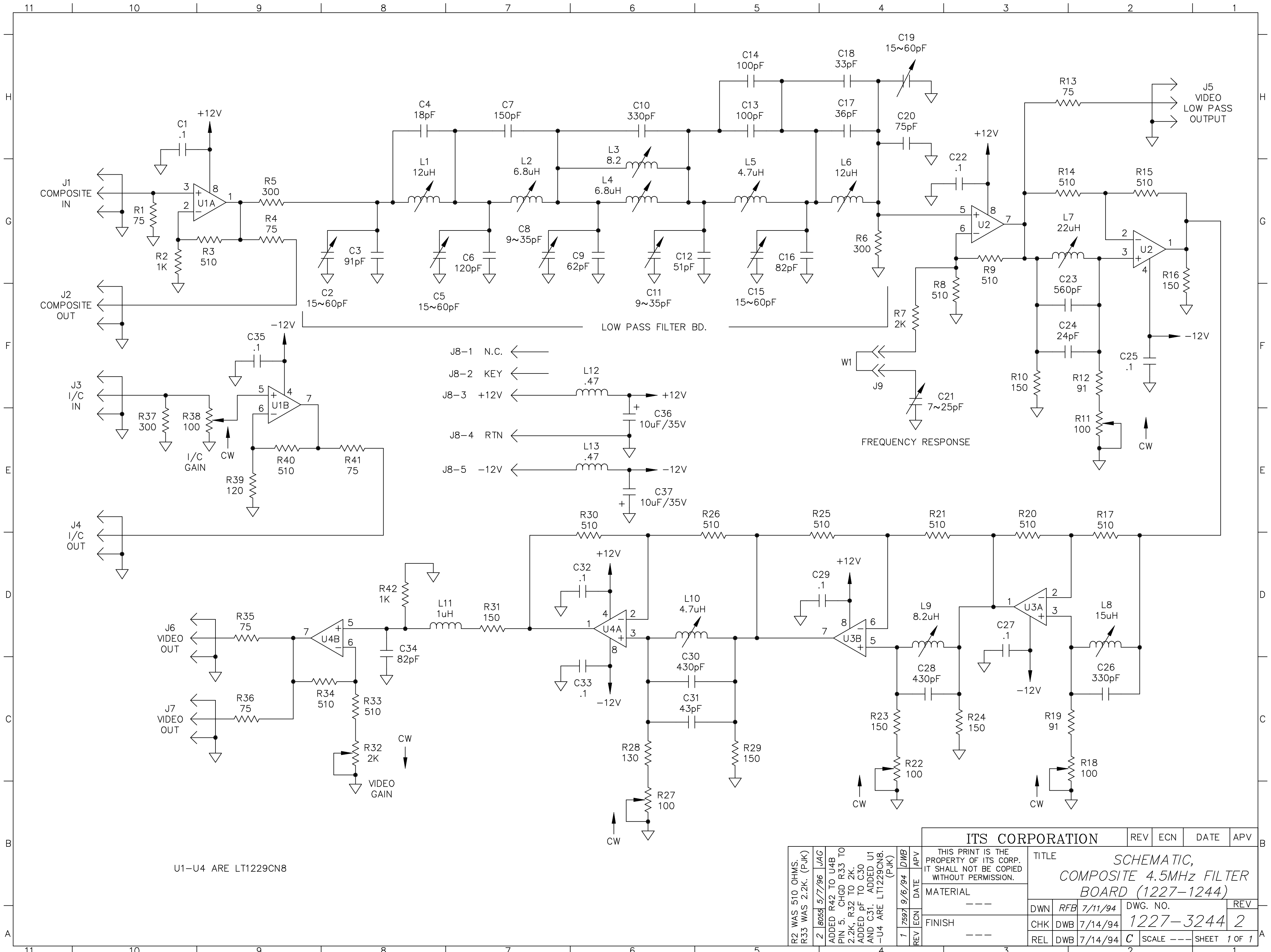




ADDED C23 & C24. (MM)			
6	7928	10/12/95	LRT
CHANGED R4, R5, R9, R10, R14, R15, R19 & R20 FROM 510 TO 2K. DELETED C22. (MM)			
5	7844	7/21/95	LRT
CHANGED C18, C19 5pF TO 1.8-10pF. ADDED C20, C21 1.8-10pF. ADDED C22 470 pF. (MM)			
4	7808	5/31/95	DWB
ADDED R30, R31, 200 OHM. ADDED C18, C19, 5pF. CHGD L1 PIN 3 TO 1 AND L1 PIN 1 TO 3. (PJK)			
3	7571	8/9/94	DWB
CHGD L2 15uH TO 18uH. (PJK)			
2	7527	6/20/94	RE
EXTENSIVE CHANGES. (PJK)			
1	7496	5/9/94	DWB

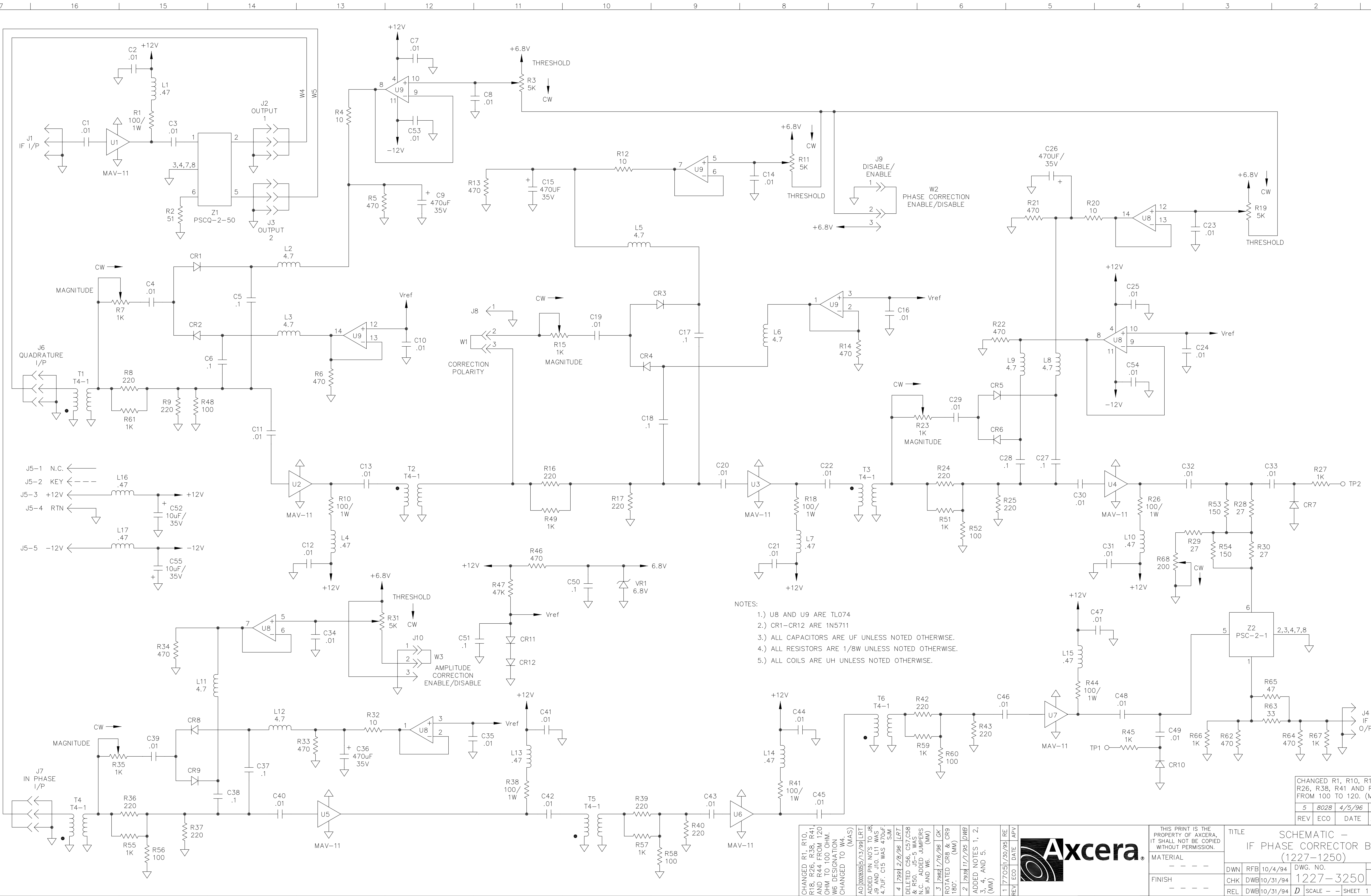
U1: LT1227CN8
U2-U3: LT1229CN8

ITS CORPORATION				REV	ECN	DATE	APV
THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.				TITLE			
				SCHEMATIC - DELAY EQUALIZER BD. (1227-1204)			
MATERIAL				DWG. NO.			
---				DWN	RFB	10/27/93	REV
FINISH				CHK	DWB	12/27/93	1227-3204
---				REL	DWB	12/27/93	6
				SCALE ---		SHEET 1 OF 1	



U1-U4 ARE LT1229CN8

R2 WAS 510 OHMS. R33 WAS 2.2K. (PJK)										2		8055 5/7/96		JAG		ADDED R42 TO U4B PIN 5. CHGD R33 TO 2.2K, R32 TO 2K. ADDED pF TO C30 AND C31. ADDED U1 -U4 ARE LT1229CN8. (PJK)										1		7597 9/6/94		DWB		REV		DATE		APV		ITS CORPORATION										REV		ECN		DATE		APV	
THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.										MATERIAL ---										FINISH ---										TITLE SCHEMATIC, COMPOSITE 4.5MHz FILTER BOARD (1227-1244)										DWN		RFB		7/11/94		DWG. NO.						REV			
																																								CHK		DWB		7/14/94		1227-3244						2			
																																								REL		DWB		7/14/94		C		SCALE ---		SHEET		1 OF 1			



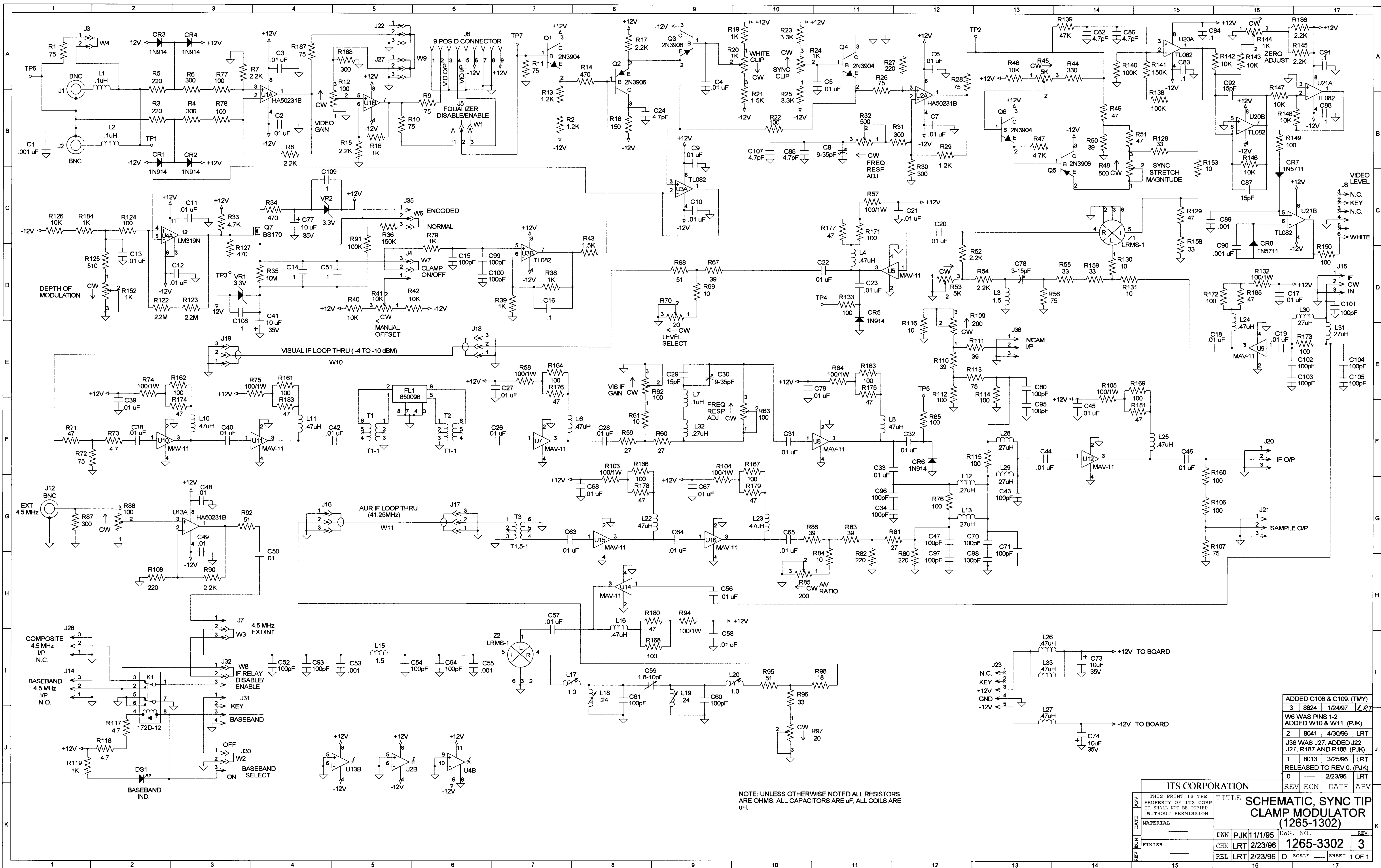
- NOTES:
- 1.) U8 AND U9 ARE TL074
 - 2.) CR1-CR12 ARE 1N5711
 - 3.) ALL CAPACITORS ARE UF UNLESS NOTED OTHERWISE.
 - 4.) ALL RESISTORS ARE 1/8W UNLESS NOTED OTHERWISE.
 - 5.) ALL COILS ARE UH UNLESS NOTED OTHERWISE.

CHANGED R1, R10, R18, R26, R38, R41 AND R44 FROM 120 OHM TO 100 OHM. W6 DESIGNATION CHANGED TO W4. (MM)			
5	8028	4/5/96	LRT
REV	ECO	DATE	APV



TITLE			
SCHEMATIC - IF PHASE CORRECTOR BD. (1227-1250)			
DWN	RFB	10/4/94	DWG. NO.
CHK	DWB	10/31/94	1227-3250
REL	DWB	10/31/94	SCALE - - SHEET 1 OF 1

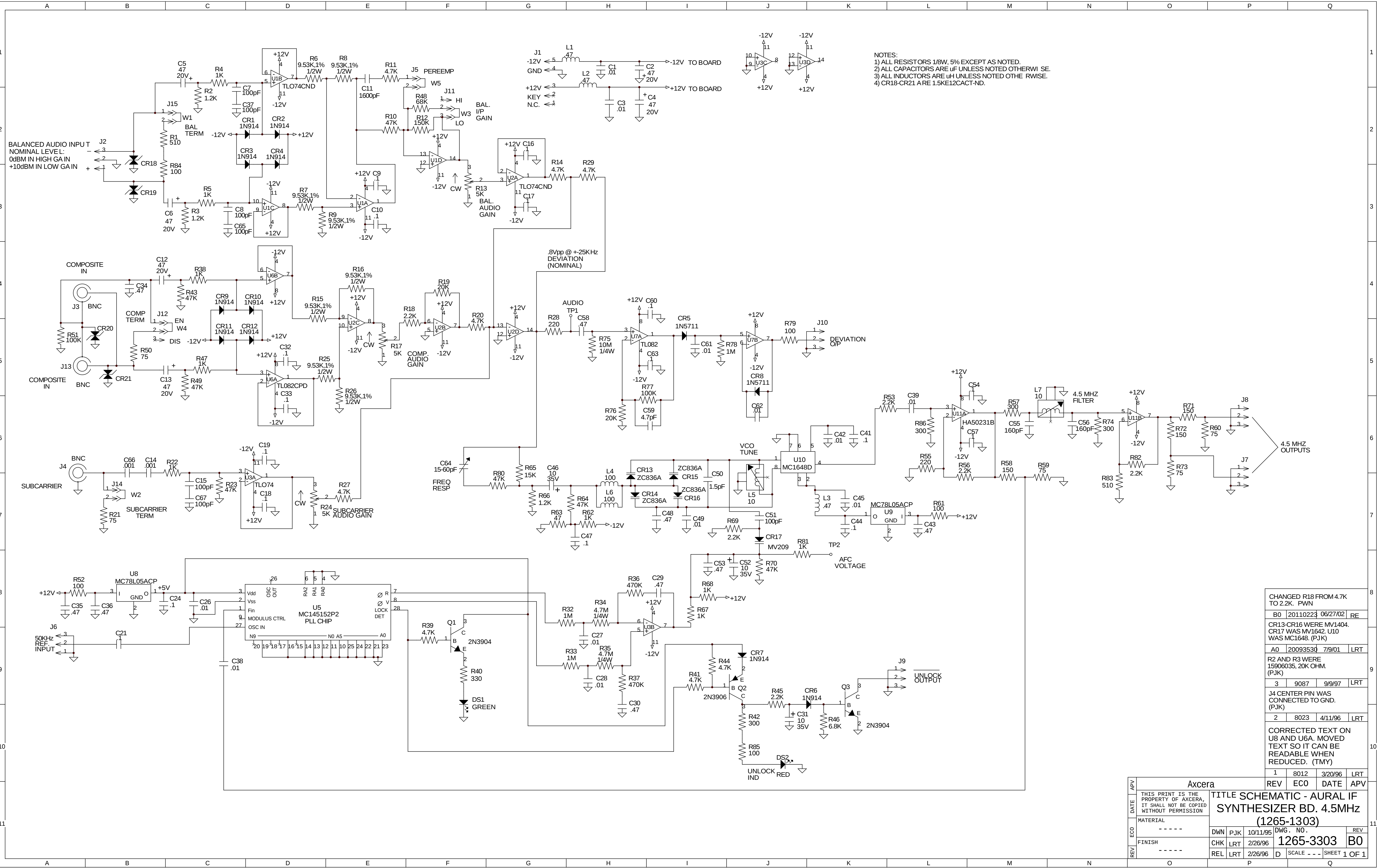
CHANGED R1, R10, R18, R26, R38, R41 AND R44 FROM 120 OHM TO 100 OHM. W6 DESIGNATION CHANGED TO W4. (MM)	4 17991 2/8/96 LRT	DELETED C56, C57, C58 & R50. J5-5 WAS N.C. ADDED JUMPERS W5 AND W6. (MM)	3 17991 1/16/96 LK	ROTATED CR8 & CR9 180°. (MM)	2 17939 11/1/95 DWB	ADDED NOTES 1, 2, 3, 4, AND 5. (MM)	1 17705/1/30/95 RE	REV	ECO	DATE	APV
---	--------------------	--	--------------------	------------------------------	---------------------	-------------------------------------	--------------------	-----	-----	------	-----



NOTE: UNLESS OTHERWISE NOTED ALL RESISTORS ARE OHMS, ALL CAPACITORS ARE uF, ALL COILS ARE uH.

ADDED C108 & C109. (TMY)			
3	8824	1/24/97	LRT
W6 WAS PINS 1-2 ADDED W10 & W11. (PJK)			
2	8041	4/30/96	LRT
J36 WAS J27. ADDED J22, J27, R187 AND R188. (PJK)			
1	8013	3/25/96	LRT
RELEASED TO REV 0. (PJK)			
0		2/23/96	LRT

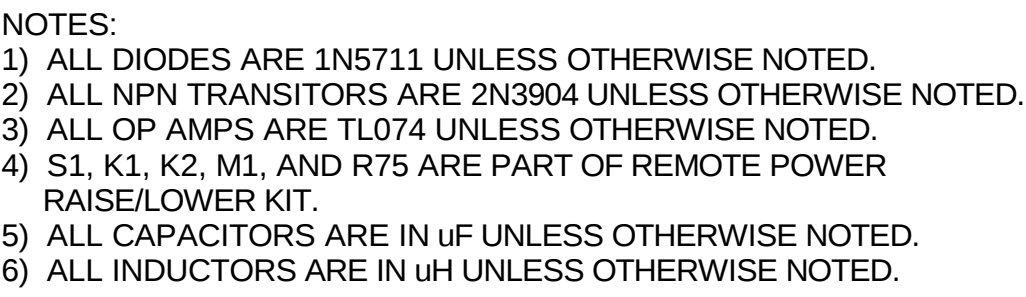
REV ECN				DATE			
APV	THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION			TITLE			
DATE	MATERIAL			SCHEMATIC, SYNC TIP CLAMP MODULATOR (1265-1302)			
REV	FINISH	DWN	PJK	11/1/95	DWG. NO.	1265-3302	REV
		CHK	LRT	2/23/96		3	
		REL	LRT	2/23/96	D	SCALE	SHEET 1 OF 1



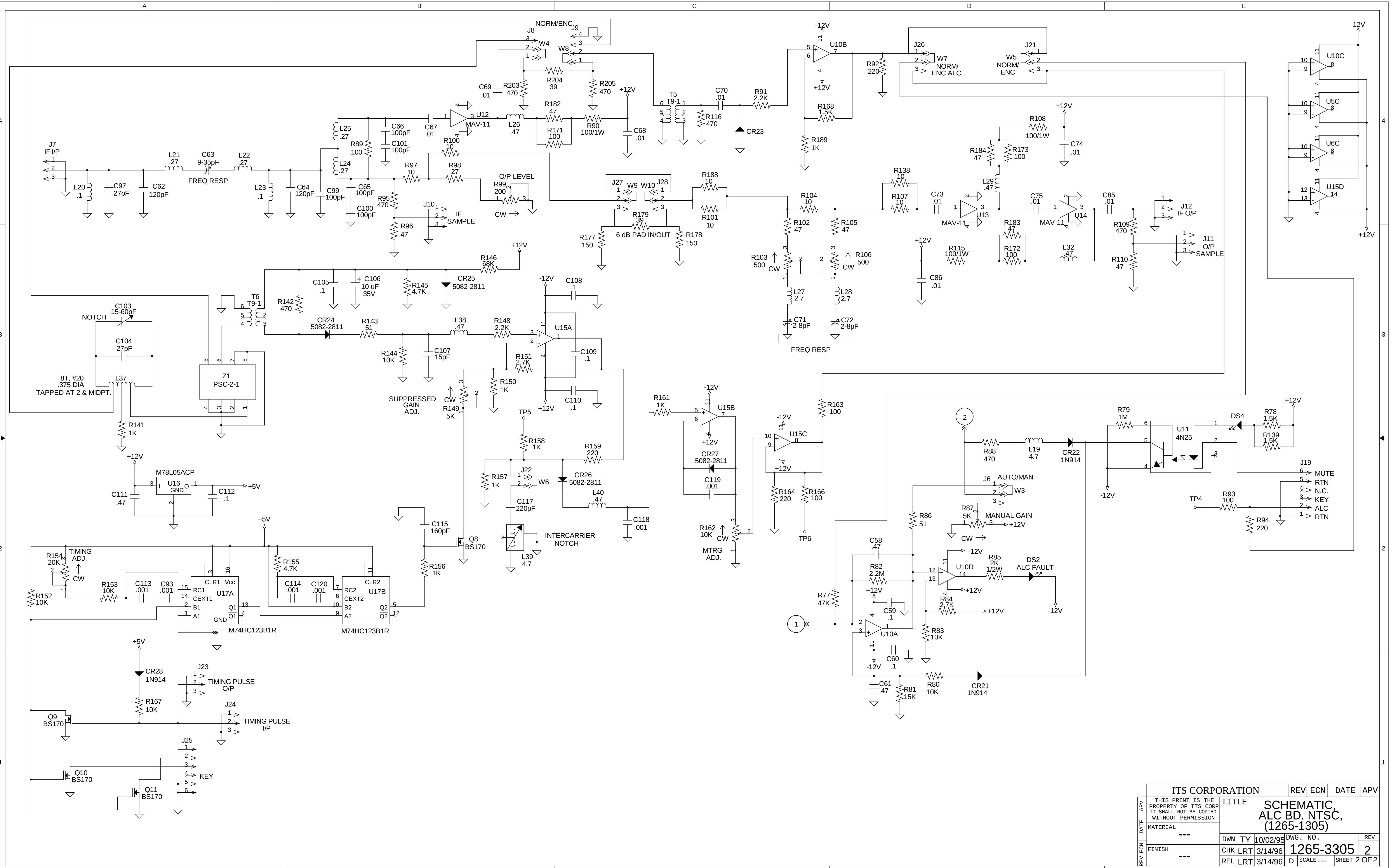
NOTES:
1) ALL RESISTORS 1/8W, 5% EXCEPT AS NOTED.
2) ALL CAPACITORS ARE uF UNLESS NOTED OTHERWI. SE.
3) ALL INDUCTORS ARE uH UNLESS NOTED OTHE. RWISE.
4) CR18-CR21 ARE 1.5KE12CACT-ND.

CHANGED R18 FROM 4.7K TO 2.2K. PWN			
B0	20110223	06/27/02	RE
CR13-CR16 WERE MV1404. CR17 WAS MV1642. U10 WAS MC1648. (PJK)			
A0	20093530	7/9/01	LRT
R2 AND R3 WERE 15906035, 20K OHM. (PJK)			
3	9087	9/9/97	LRT
J4 CENTER PIN WAS CONNECTED TO GND. (PJK)			
2	8023	4/11/96	LRT
CORRECTED TEXT ON U8 AND U6A. MOVED TEXT SO IT CAN BE READABLE WHEN REDUCED. (TMY)			
1	8012	3/20/96	LRT

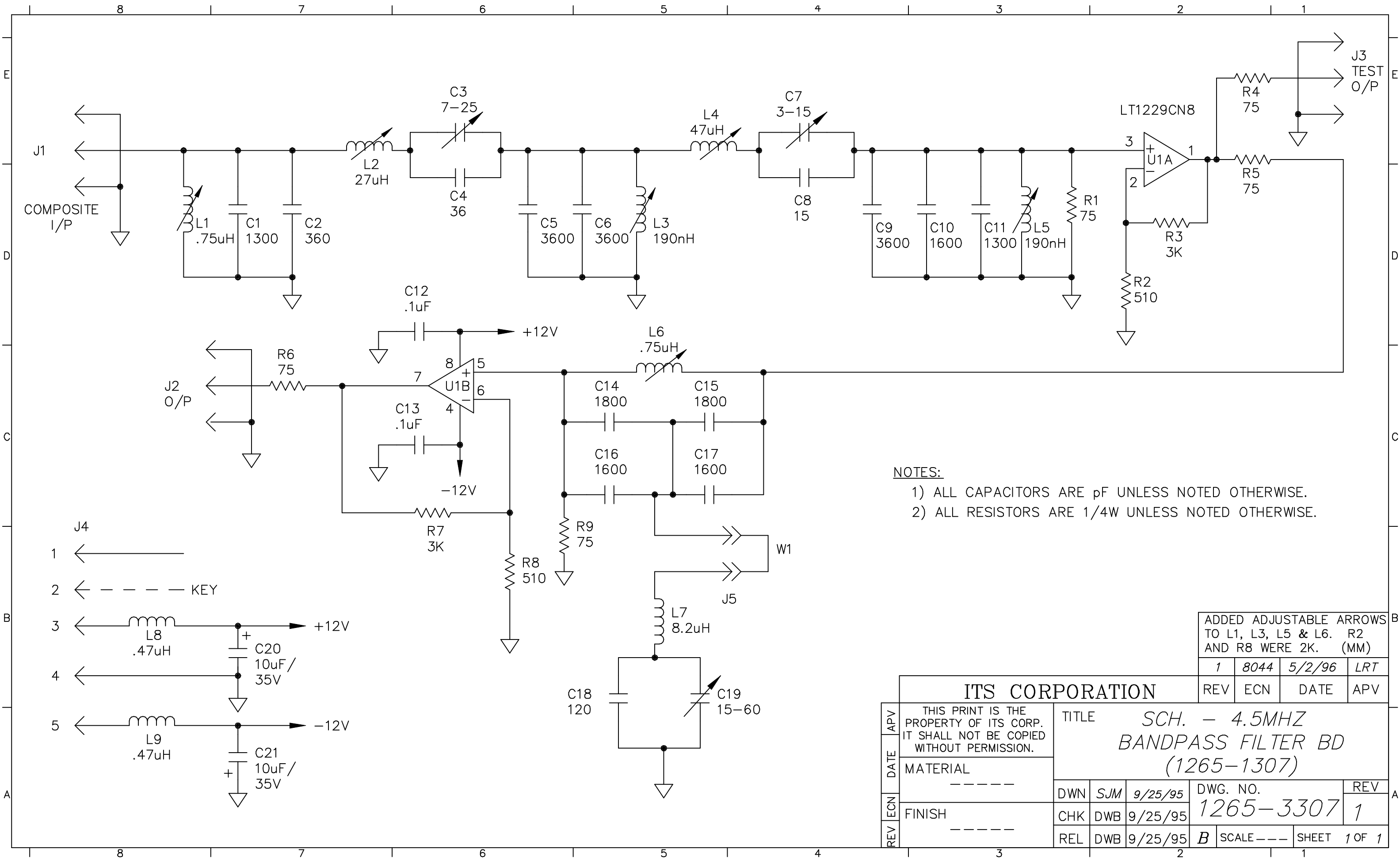
APV	Axcera				REV	ECO	DATE	APV
DATE	THIS PRINT IS THE PROPERTY OF AXCERA, IT SHALL NOT BE COPIED WITHOUT PERMISSION				TITLE SCHEMATIC - AURAL IF SYNTHESIZER BD. 4.5MHZ (1265-1303)			
ECO	MATERIAL				DWN	PJK	10/11/95	DWG. NO.
REV	FINISH				CHK	LRT	2/26/96	1265-3303
					REL	LRT	2/26/96	D
					SCALE	- - -	SHEET	1 OF 1

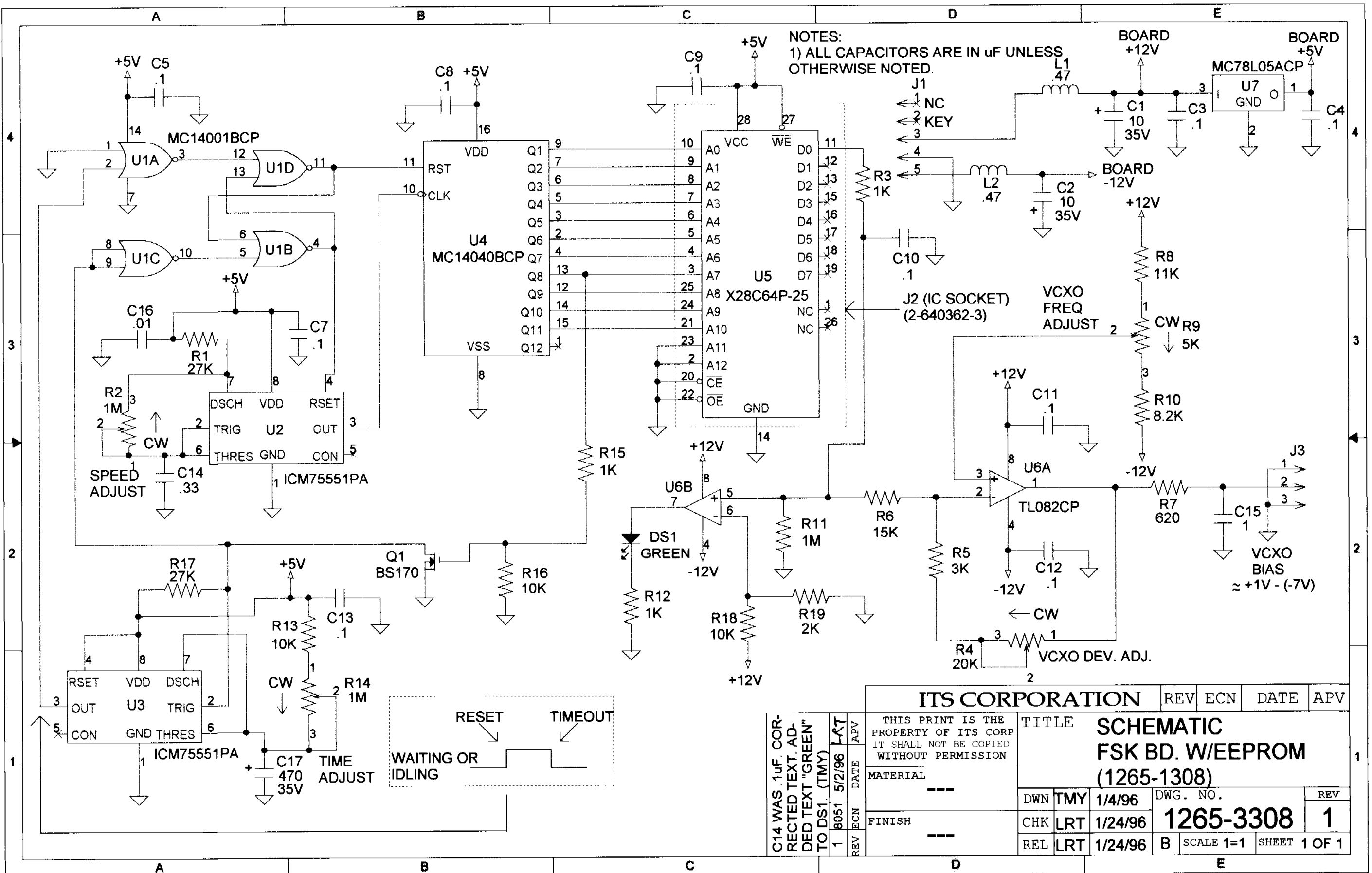


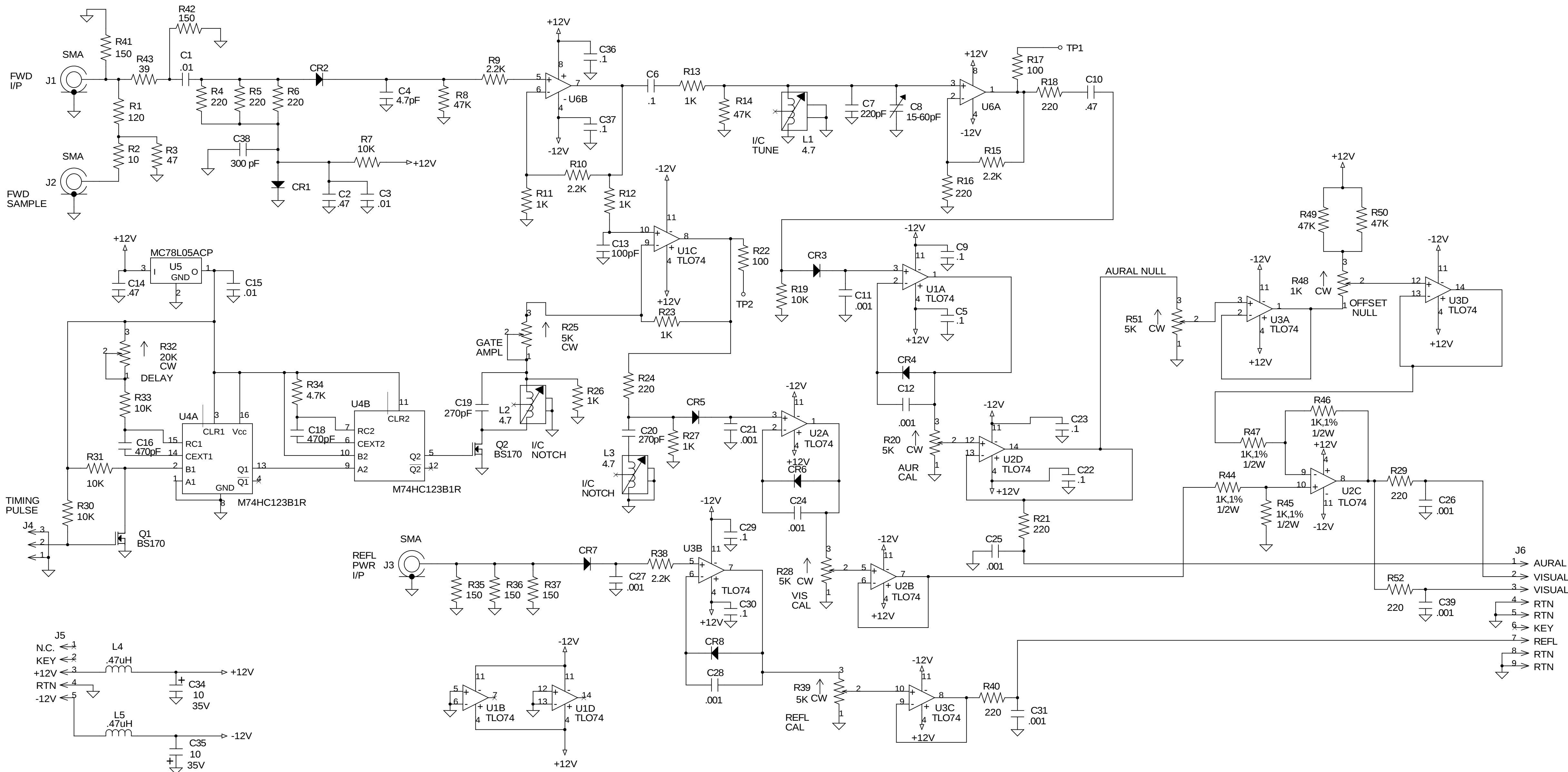
ITS CORPORATION				REV	ECN	DATE	APV
APV	THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION		TITLE SCHEMATIC, ALC BD. NTSC (1265-1305)				
DATE	MATERIAL						
	---		DWN	TMY10/02/95			DWG. NO.
ECN	FINISH		CHK	LRT	3/14/96		REV
	---		REL	LRT	3/14/96		D
15			16			17	
			D			SCALE --- SHEET 1 OF 2	



ITS CORPORATION				REV	ECN	DATE	APV
APV	THIS PRINT IS THE PROPERTY OF ITS CORP IT SHALL NOT BE COPIED WITHOUT PERMISSION			TITLE			
DATE	MATERIAL			SCHEMATIC, ALC BD. NTSC, (1265-1305)			
REV	ECN	FINISH	---	DWN	TY	10/02/95	DWG. NO.
				CHK	LRT	3/14/96	1265-3305
				REL	LRT	3/14/96	2
				D	SCALE	---	SHEET 2 OF 2



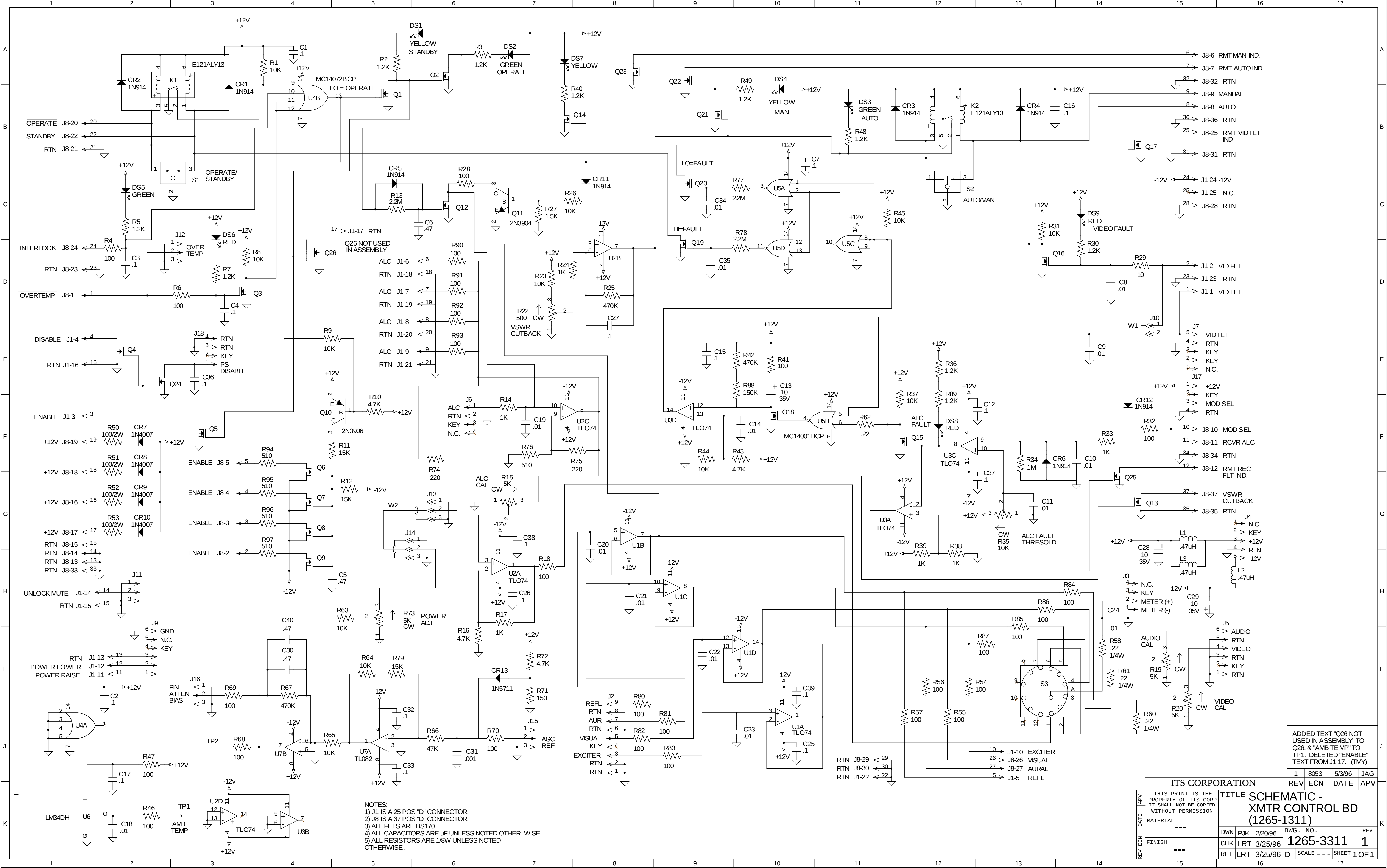




NOTES:
1) ALL RESISTORS ARE 1/8 WATT UNLESS NOTED OTHERWISE.
2) ALL CAPACITORS ARE uF UNLESS NOTED OTHERW SE.
3) ALL INDUCTORS ARE uH UNLESS NOTED OTHE RWISE.
4) ALL DIODES ARE 5082-2811 UNLESS NOTED OTHERWISE.
5) ALL TRANSISTORS ARE BS170 UNLESS NOTED OTHERW SE.
6) U6 IS HA50231B OR LT12 29CS8.

ADDED R52 AND C39. (PJK)			
A0	20092325	5/31/01	LRT
R8 WAS 4.7K. (TMY)			
5	8470	9/30/96	LRT
R7 WAS 100K. (PJK)			
4	8408	9/9/96	JAG
ADDED R41 - R51 & C38. R13 WAS 10K, R19 WAS 2.2K, R7 WAS 10K. CHGD U1A TO U6B. CHGD U1D TO U1A. ADDED CIRCUIT TO U2B & U2D. ENLARGED TO "D" SIZE DWG. (TMY)			
3	8052	7/16/96	JAG
C7 WAS 160pF. J6 WAS A 7 PIN CONNECTOR. (PJK)			
2	8026	4/2/96	LRT
ADDED U6, C36, C37. ADDED NOTE #6. U5 WAS M78L05ACN. L5 WAS CONNECTED TO J5-1. U6A WAS U1A. 1A WAS U1B. U2D WAS U2A. U2A WAS U2B. U2B WAS U3D. (PJK)			
1	7999	3/4/96	LRT

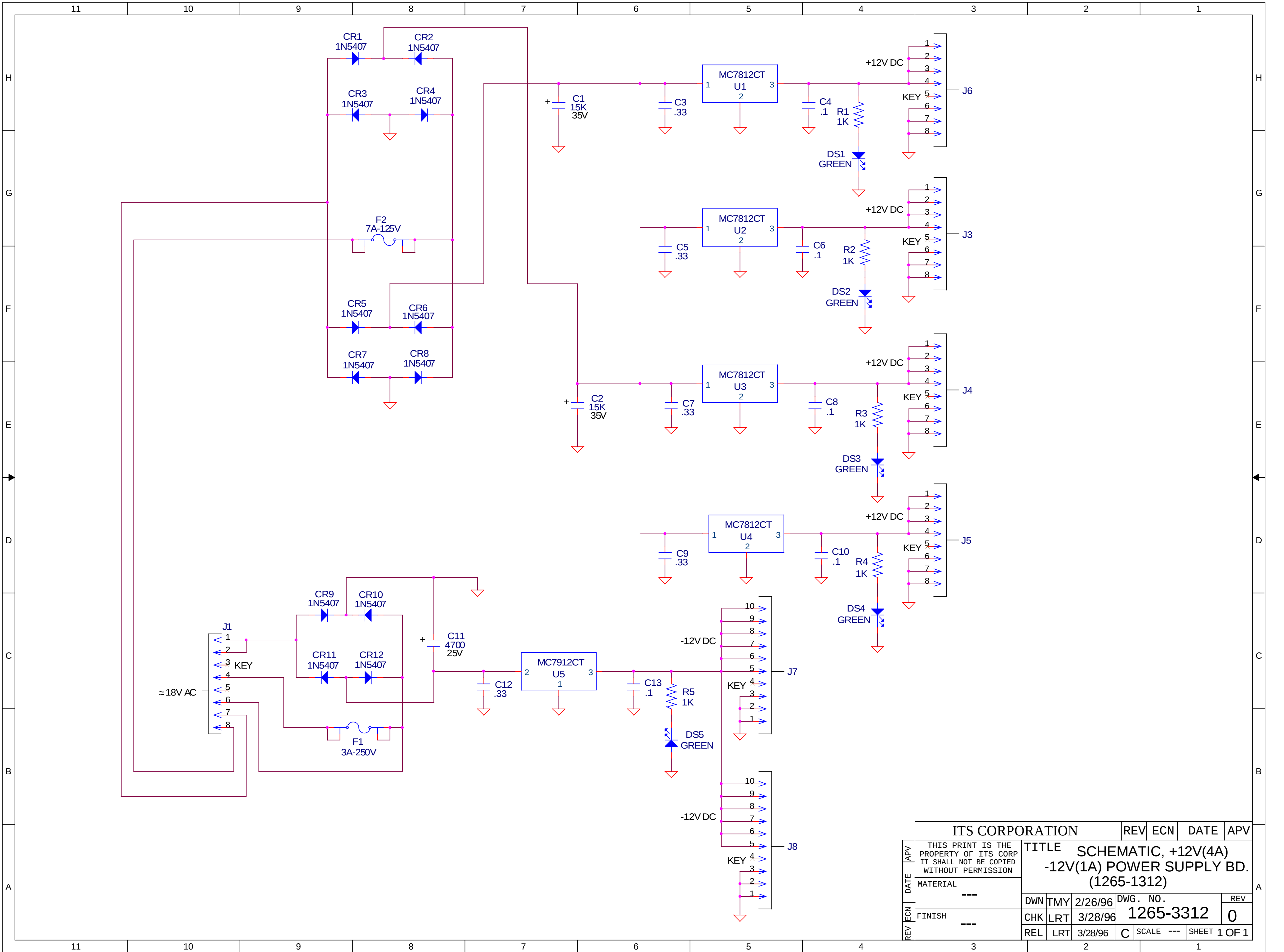
APV	ADC Telecommunications				REV	ECO	DATE	APV	
DATE	THIS PRINT IS THE PROPERTY OF ADC. IT SHALL NOT BE COPIED WITHOUT PERMISSION		TITLE 91-00-00-50AC-61 SCH., VIS/AURAL MTRNG BD (1265-1309)						
ECO			MATERIAL						
REV	FINISH		CHK	DWB	1/3/96		DWG. NO.		REV
	-----		REL	DWB	1/3/96		D	SCALE - - -	SHEET 1 OF 1



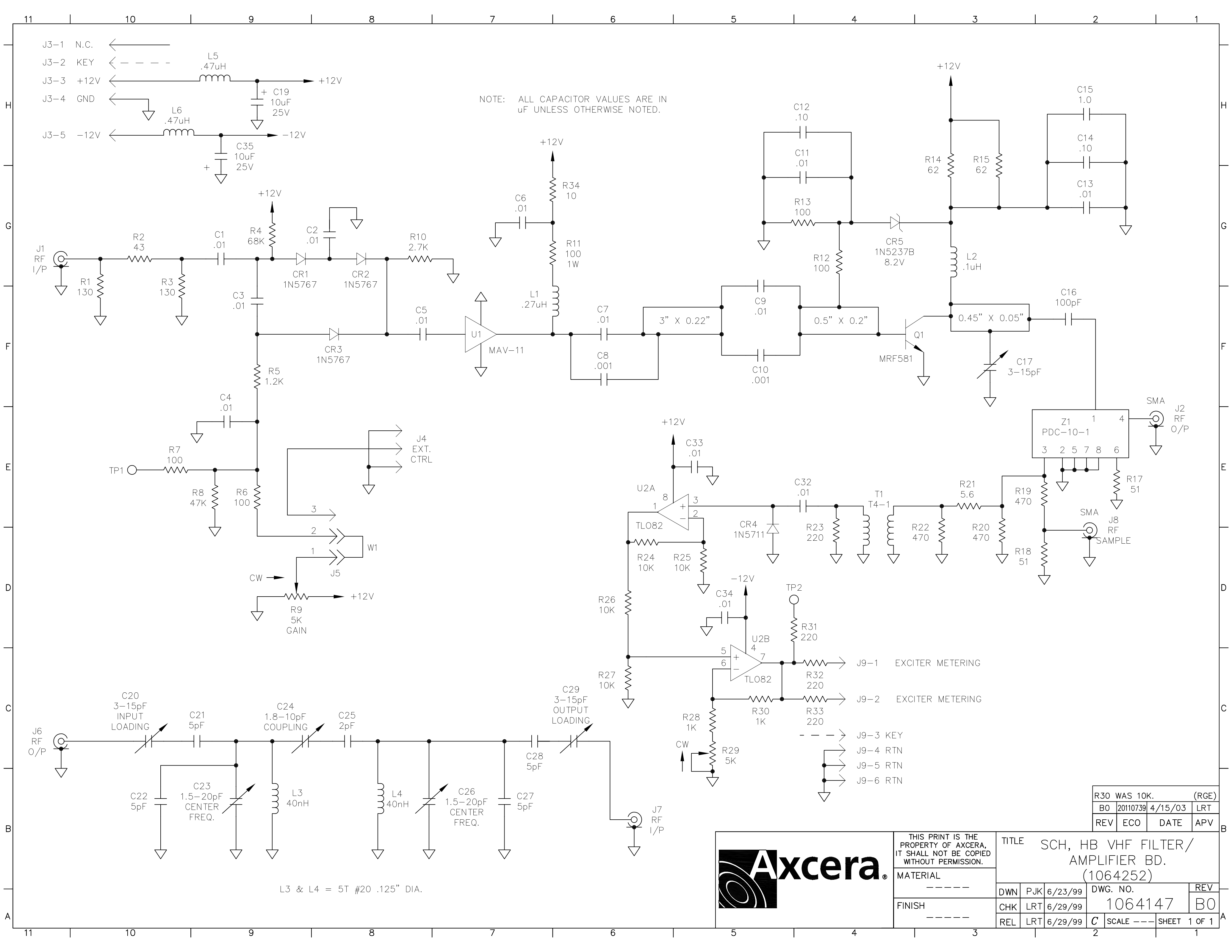
NOTES:
1) J1 IS A 25 POS "D" CONNECTOR.
2) J8 IS A 37 POS "D" CONNECTOR.
3) ALL FETS ARE BS170.
4) ALL CAPACITORS ARE uF UNLESS NOTED OTHER WISE.
5) ALL RESISTORS ARE 1/8W UNLESS NOTED OTHERWISE.

ADDED TEXT "Q26 NOT USED IN ASSEMBLY" TO Q26, & "AMB TEMP" TO TP1. DELETED "ENABLE" TEXT FROM J1-17. (TMY)

ITS CORPORATION			
REV	ECN	DATE	APV
1	8053	5/3/96	JAG
TITLE SCHEMATIC - XMTR CONTROL BD (1265-1311)			
APV	THIS PRINT IS THE PROPERTY OF ITS CORP IT SHALL NOT BE COPIED WITHOUT PERMISSION		
DATE	MATERIAL	DWN PJK 2/20/96	DWG. NO. REV
REV	FINISH	CHK LRT 3/25/96	1265-3311 1
REV	ECN	REL LRT 3/25/96	SCALE - - - SHEET 1 OF 1



ITS CORPORATION				REV	ECN	DATE	APV
REV	DATE	THIS PRINT IS THE PROPERTY OF ITS CORP IT SHALL NOT BE COPIED WITHOUT PERMISSION					
	DATE	MATERIAL ---					
	ECN	FINISH ---					
	APV	TITLE SCHEMATIC, +12V(4A) -12V(1A) POWER SUPPLY BD. (1265-1312)					
		DWN	TMY	2/26/96	DWG. NO.		REV
		CHK	LRT	3/28/96	1265-3312		0
		REL	LRT	3/28/96	C	SCALE ---	SHEET 1 OF 1



NOTE: ALL CAPACITOR VALUES ARE IN uF UNLESS OTHERWISE NOTED.

L3 & L4 = 5T #20 .125" DIA.



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MATERIAL -----

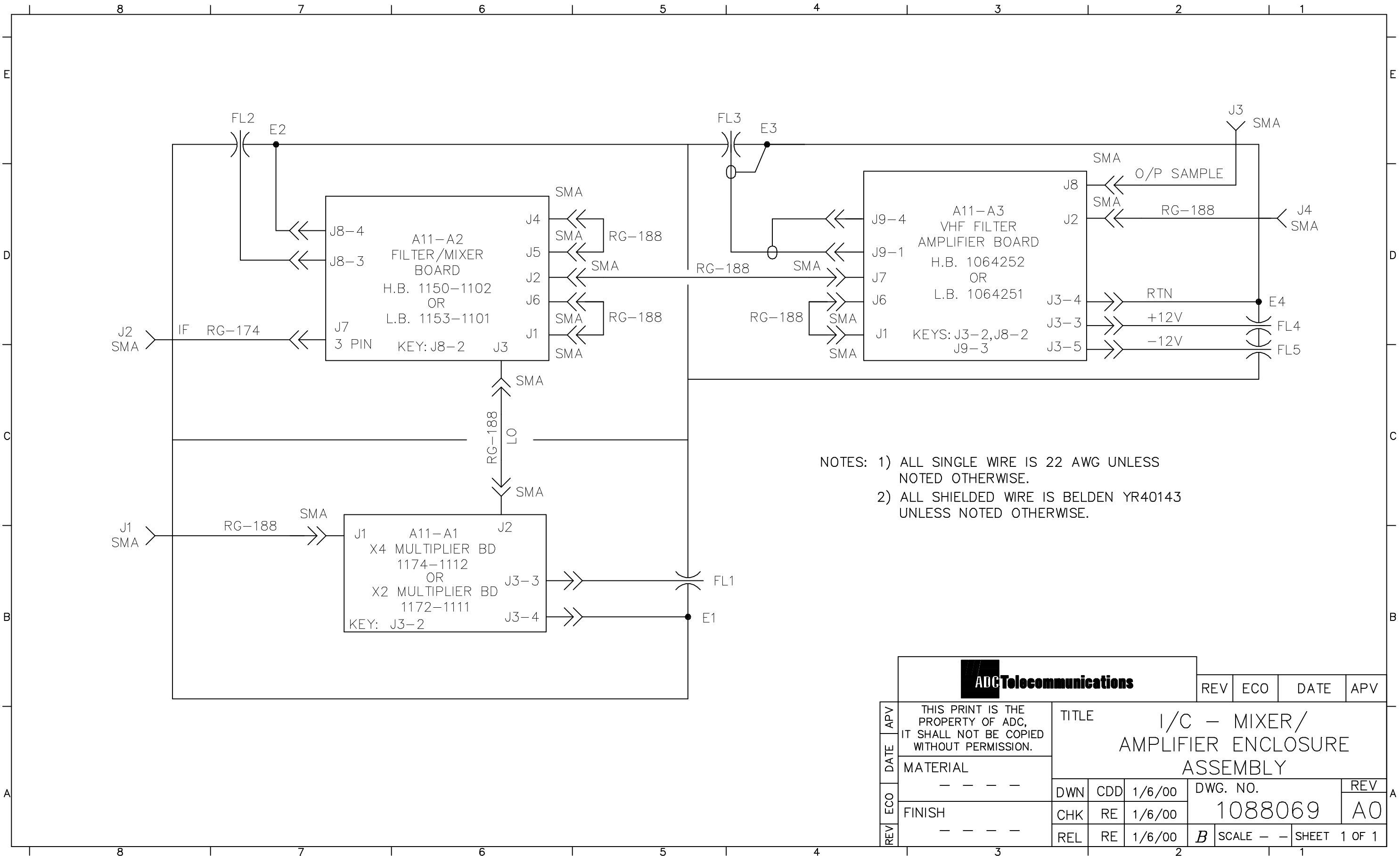
FINISH -----

TITLE

SCH, HB VHF FILTER/
AMPLIFIER BD.
(1064252)

DWN	PJK	6/23/99	DWG. NO.	REV
CHK	LRT	6/29/99	1064147	B0
REL	LRT	6/29/99	C	SCALE --- SHEET 1 OF 1

R30 WAS 10K. (RGE)		
B0	20110739	4/15/03
REV	ECO	DATE
		APV



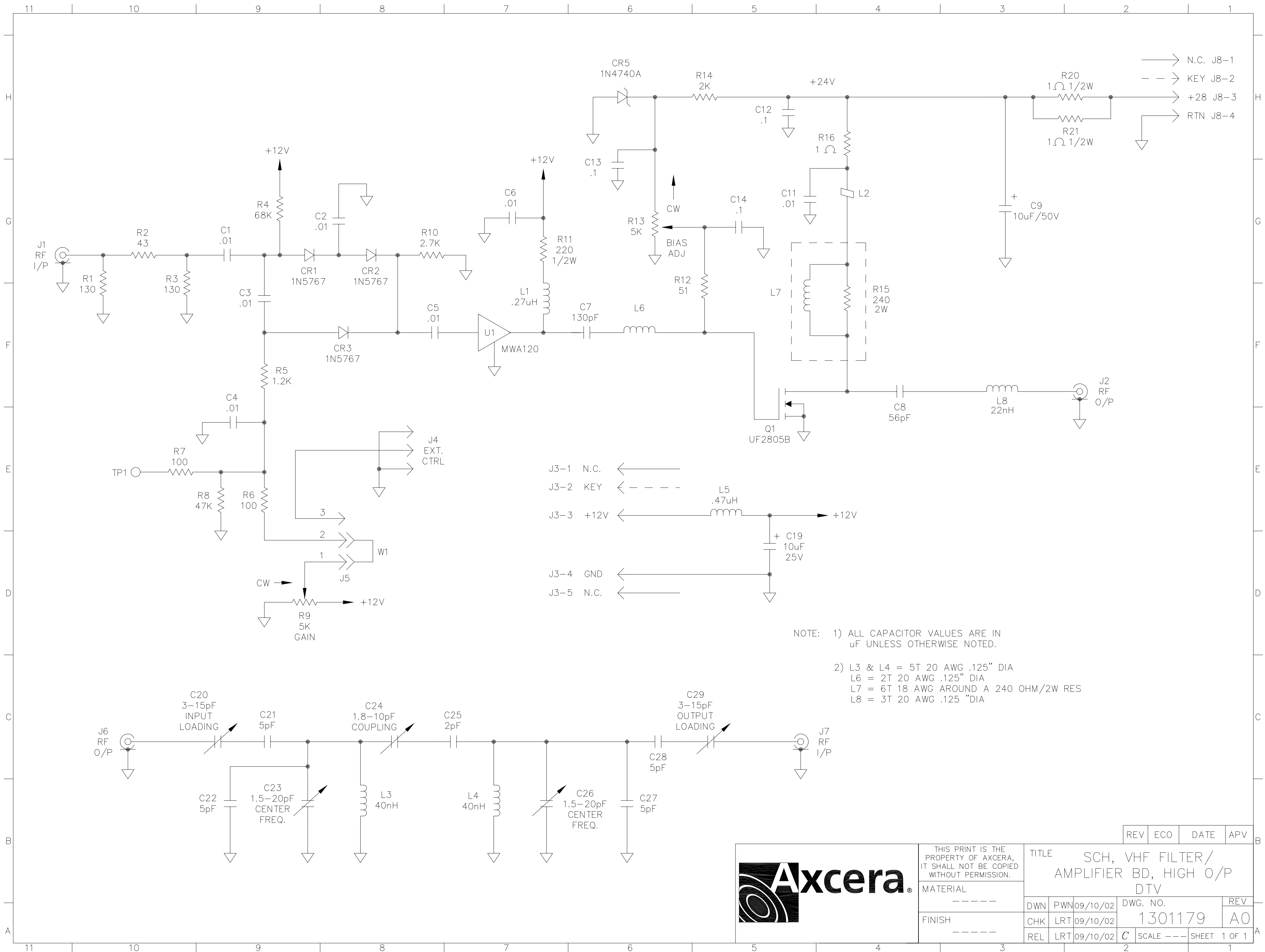
NOTES: 1) ALL SINGLE WIRE IS 22 AWG UNLESS NOTED OTHERWISE.
2) ALL SHIELDED WIRE IS BELDEN YR40143 UNLESS NOTED OTHERWISE.

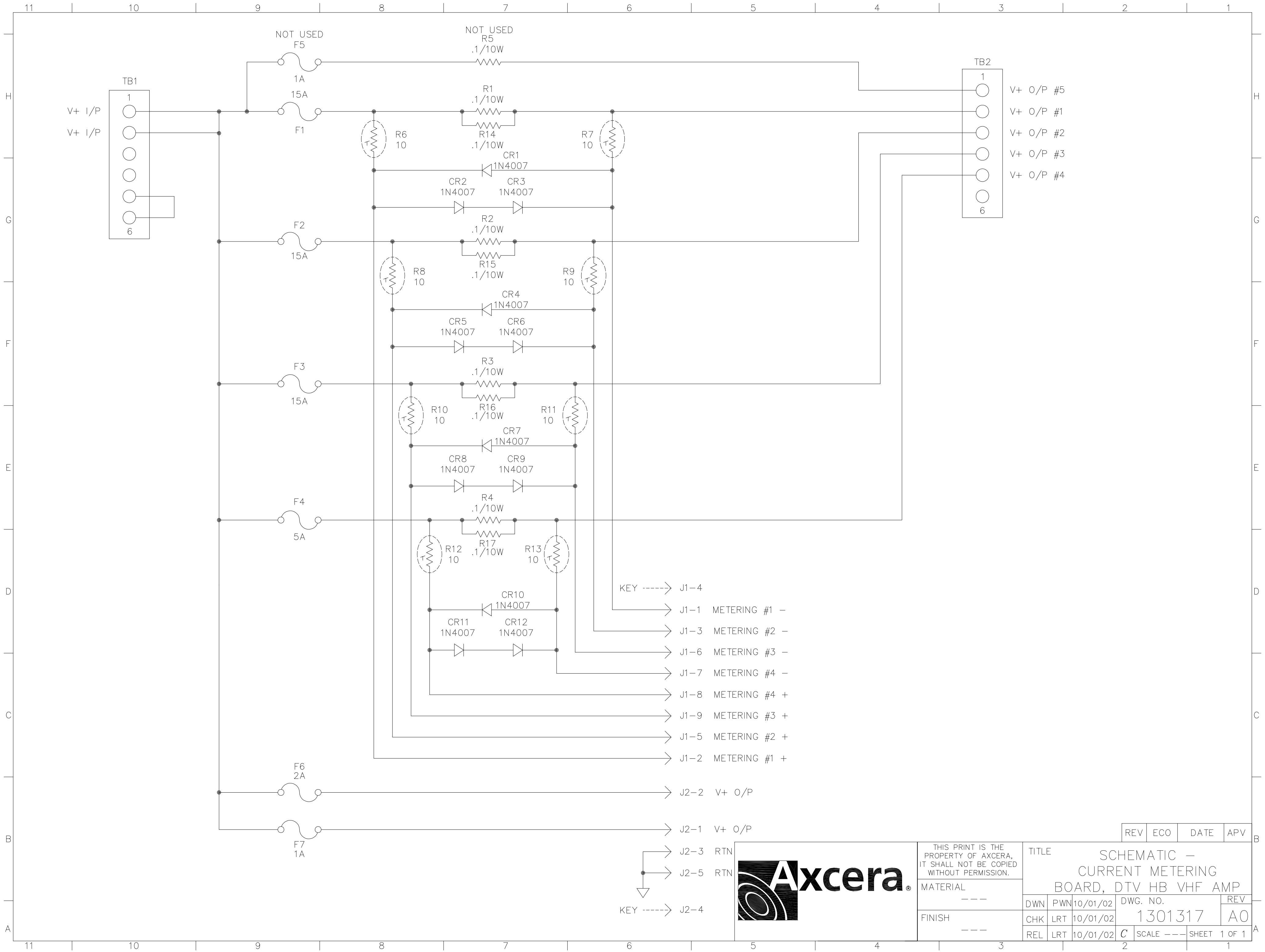
ADC Telecommunications										REV		ECO		DATE		APV	
APV	THIS PRINT IS THE PROPERTY OF ADC, IT SHALL NOT BE COPIED WITHOUT PERMISSION.			TITLE I/C – MIXER/ AMPLIFIER ENCLOSURE ASSEMBLY													
	MATERIAL — — — —			DWN		CDD		1/6/00		DWG. NO.				REV			
ECO	FINISH — — — —			CHK		RE		1/6/00		1088069				A0			
	REV				REL		RE		1/6/00		B	SCALE — —		SHEET 1 OF 1			

3

2

1





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MATERIAL	

FINISH	

TITLE		SCHEMATIC –			
		CURRENT METERING			
BOARD, DTV HB VHF AMP		DWN	PWN	10/01/02	DWG. NO.
		CHK	LRT	10/01/02	1301317
		REL	LRT	10/01/02	REV
		SCALE ---		SHEET 1 OF 1	

REV	ECO	DATE	APV
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