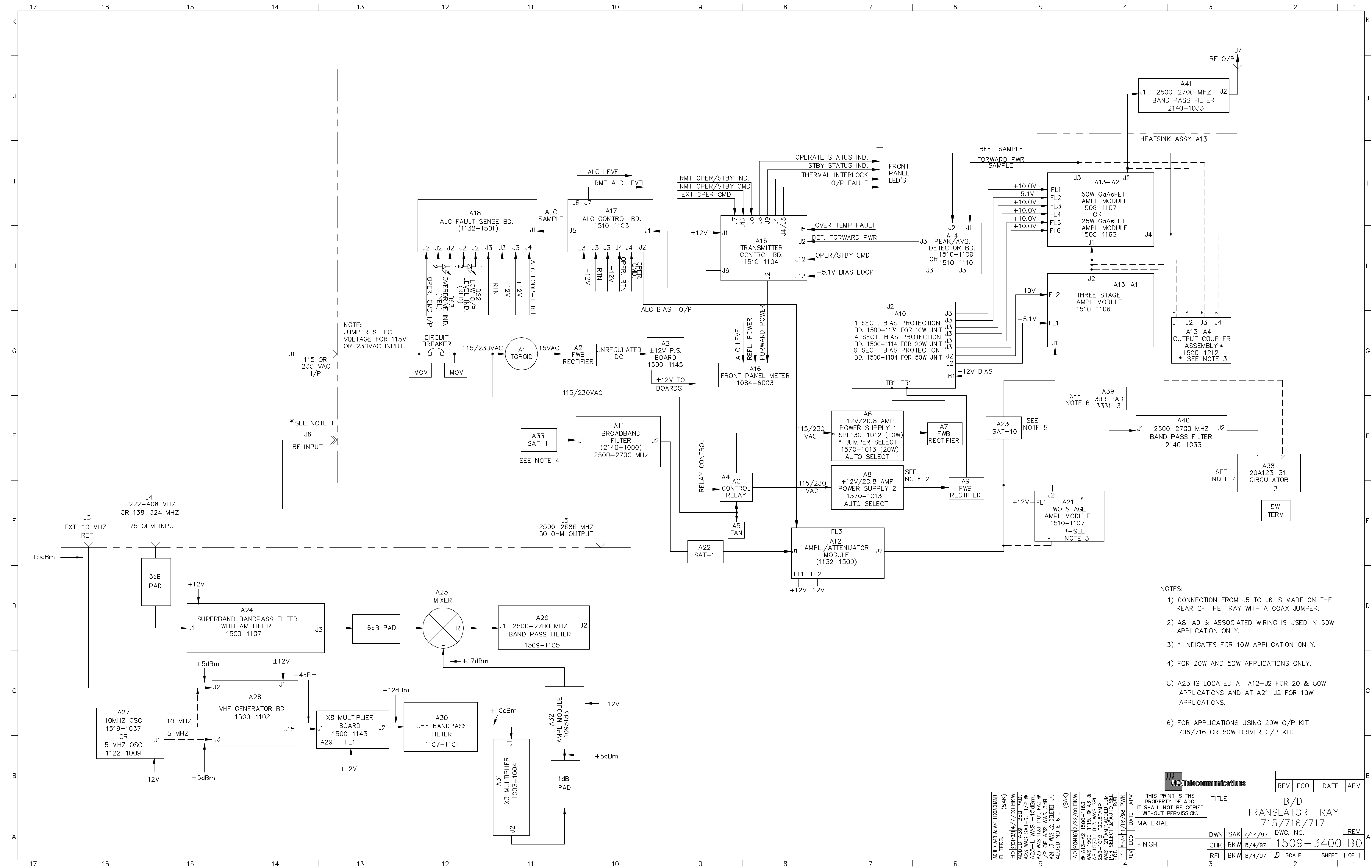
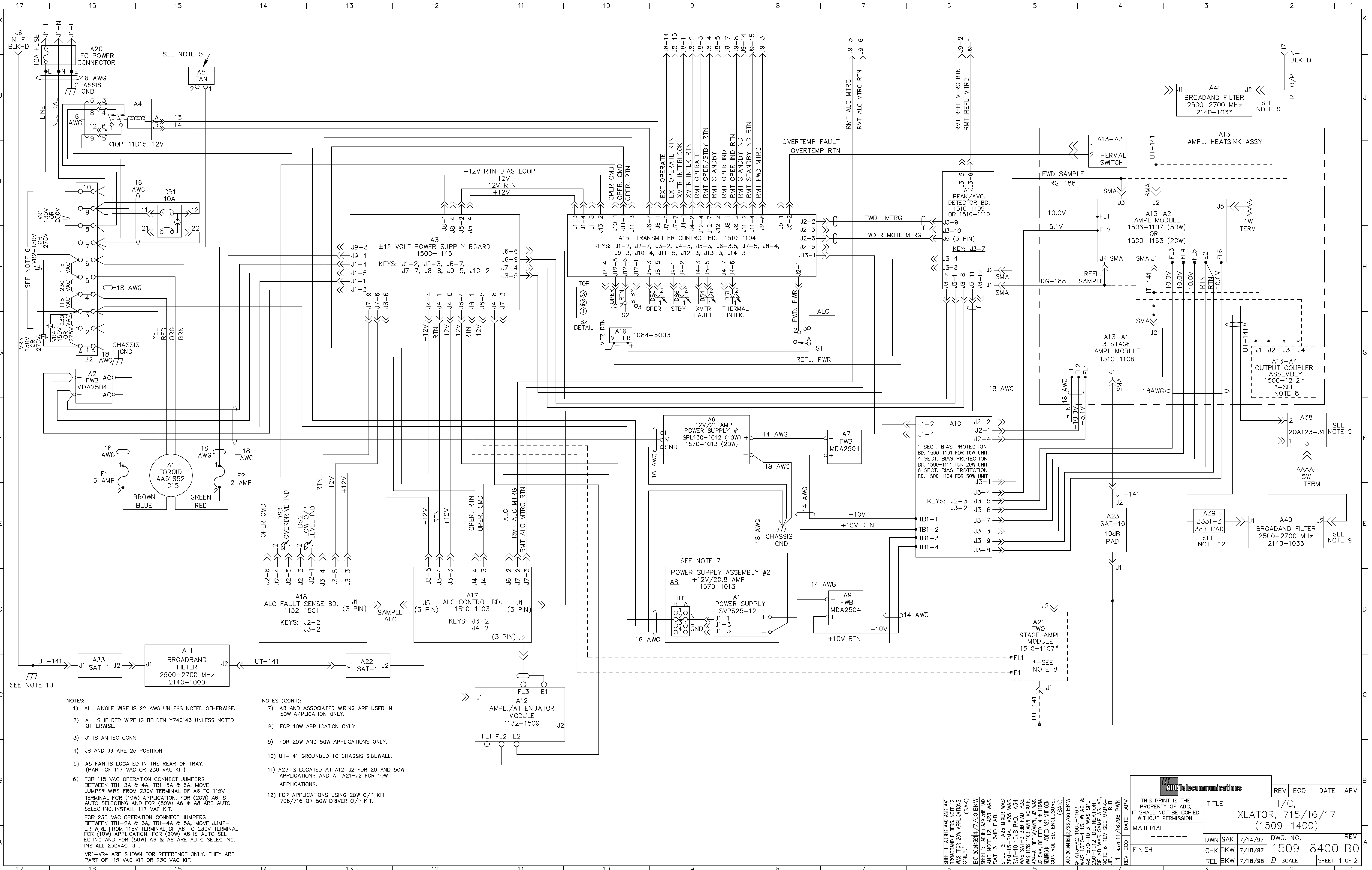
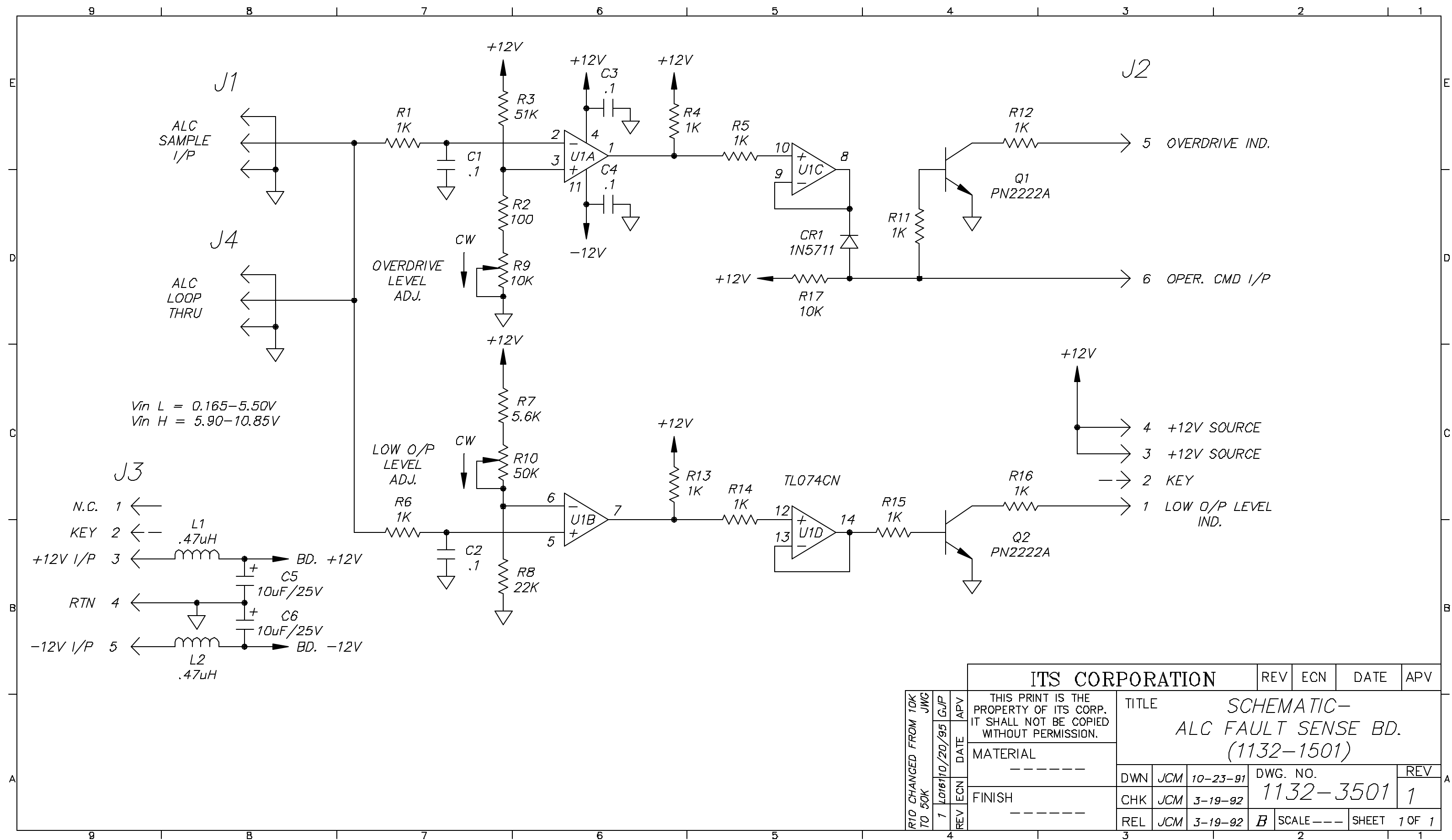
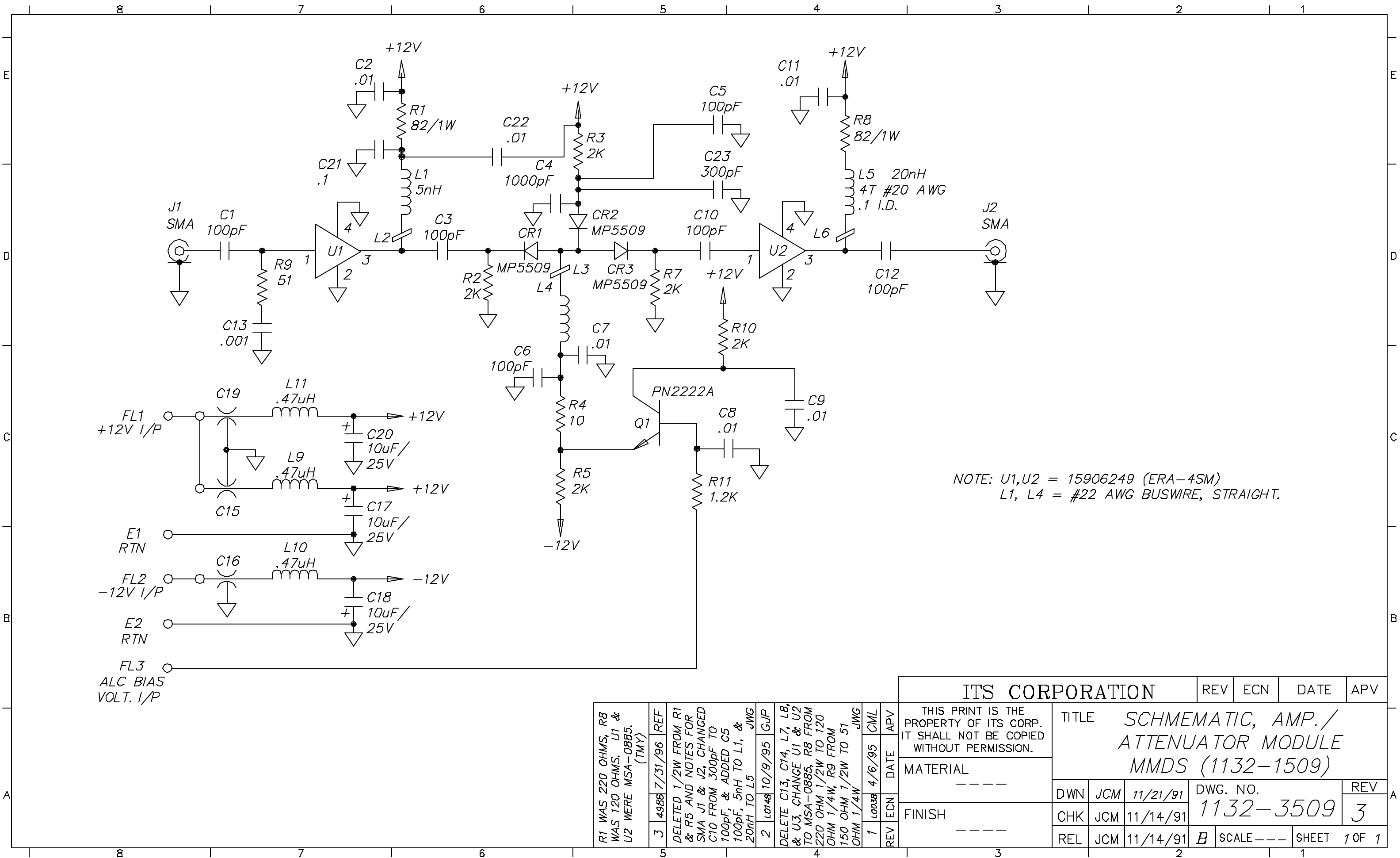






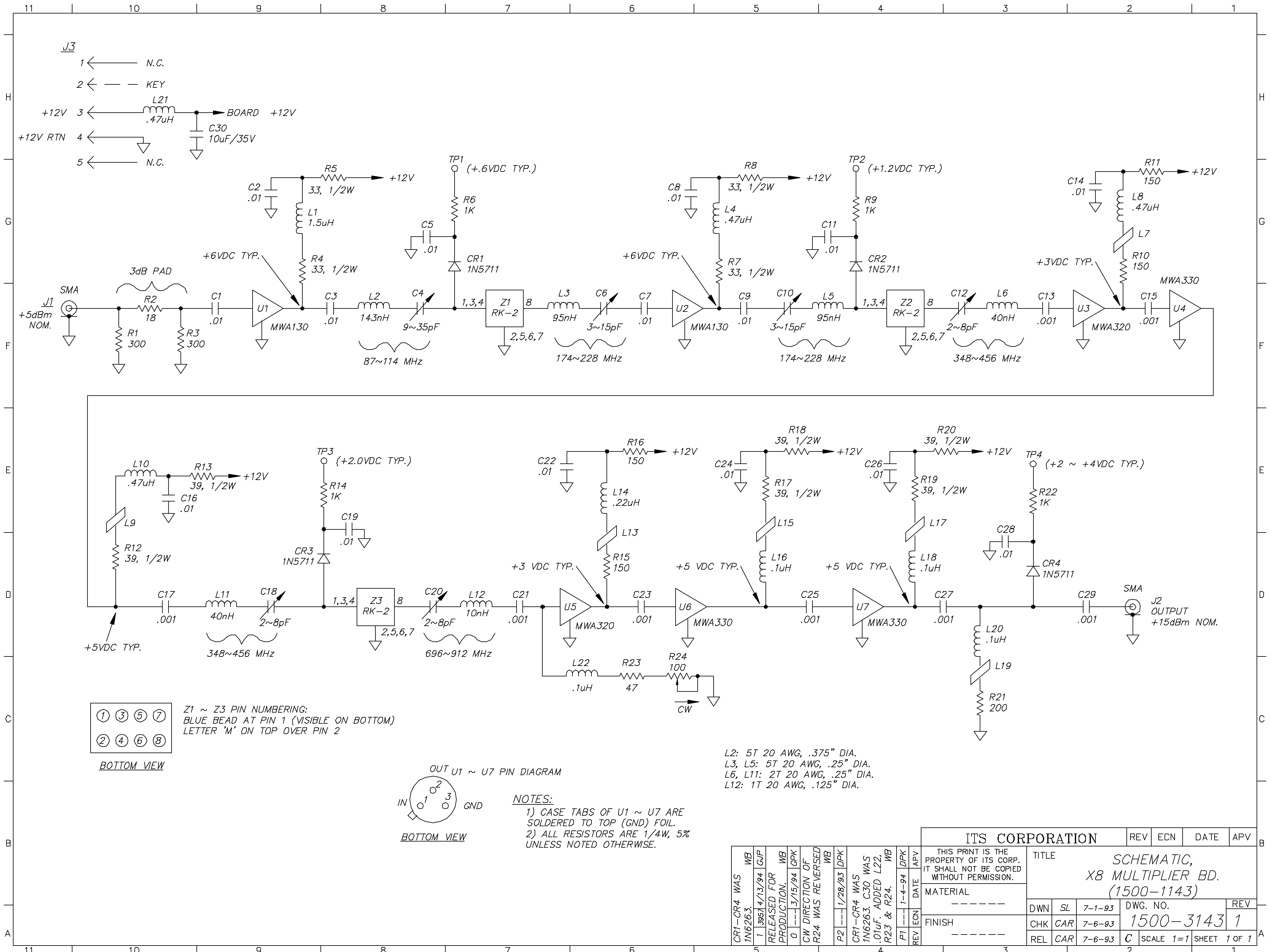




NOTE: U1,U2 = 15906249 (ERA-4SM)
L1, L4 = #22 AWG BUSWIRE, STRAIGHT.

R1 WAS 220 OHMS, R8 WAS 120 OHMS. U1 & U2 WERE MSA-0885. (TMY)			3	4986	7/31/96	REF
DELETED 1/2W FROM R1 & R5 AND NOTES FOR SMA J1 & J2, CHANGED C10 FROM 300pF TO 100pF, & ADDED C5 100pF, 5nH TO L1, & 20nH TO L5			2	L0148	10/9/95	CJP
DELETE C13, C14, L7, L8, & U3, CHANGE U1 & U2 TO MSA-0885, R8 FROM 220 OHM 1/2W TO 120 OHM 1/4W, R9 FROM 150 OHM 1/2W TO 51 OHM 1/4W			1	L0035	4/6/95	CML

ITS CORPORATION				REV	ECN	DATE	APV
THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.				TITLE SCHMEMATIC, AMP./ ATTENUATOR MODULE MMDS (1132-1509)			
				MATERIAL -----			
REL	JCM	11/14/91	B	SCALE	---	SHEET	1 OF 1
CHK	JCM	11/14/91		DWG. NO. 1132-3509		REV	3
DWN	JCM	11/21/91					



J3

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

H

G

F

E

D

C

B

A

H

G

F

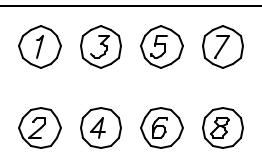
E

D

C

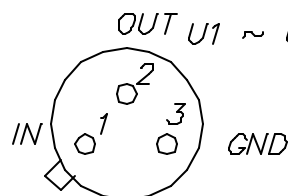
B

A



BOTTOM VIEW

Z1 ~ Z3 PIN NUMBERING:
BLUE BEAD AT PIN 1 (VISIBLE ON BOTTOM)
LETTER 'M' ON TOP OVER PIN 2



BOTTOM VIEW

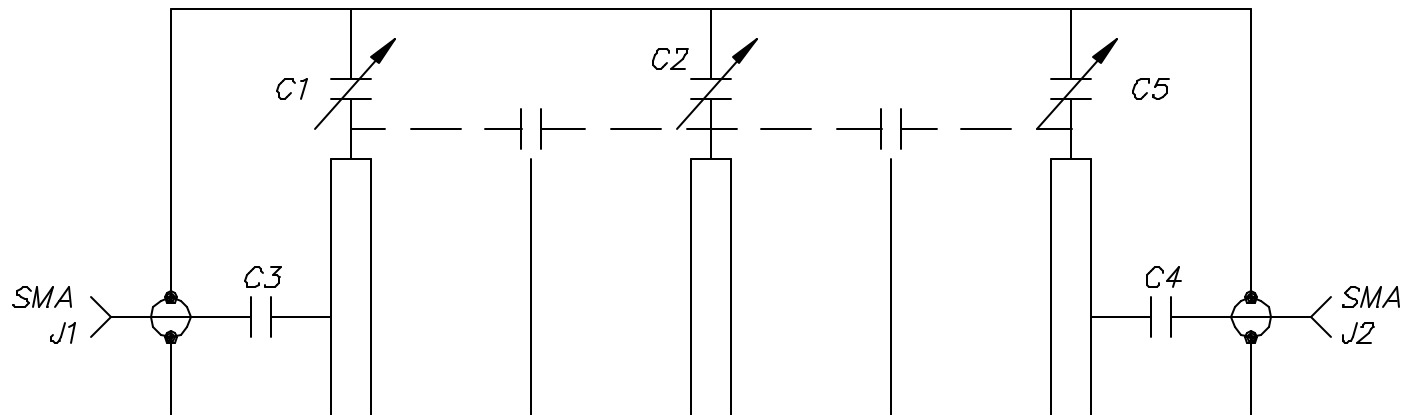
OUT U1 ~ U7 PIN DIAGRAM

NOTES:

- 1) CASE TABS OF U1 ~ U7 ARE SOLDERED TO TOP (GND) FOIL.
- 2) ALL RESISTORS ARE 1/4W, 5% UNLESS NOTED OTHERWISE.

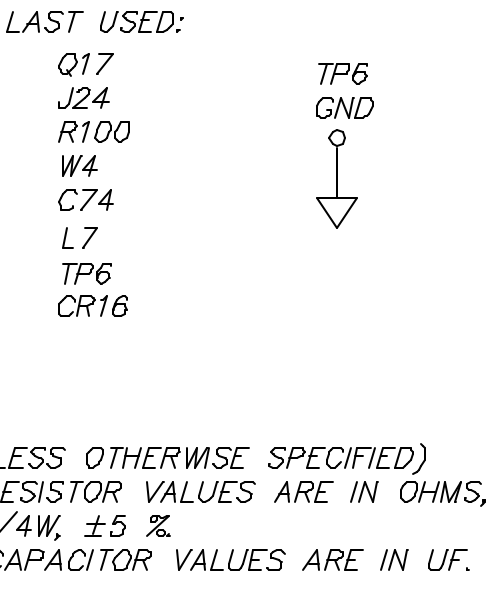
L2: 5T 20 AWG, .375" DIA.
L3, L5: 5T 20 AWG, .25" DIA.
L6, L11: 2T 20 AWG, .25" DIA.
L12: 1T 20 AWG, .125" DIA.

CR1-CR4 WAS 1N6263.										WB	1 3957 4/13/94	GJP	RELEASED FOR PRODUCTION.										WB	0 --- 3/15/94	GPK	CW DIRECTION OF R24 WAS REVERSED										WB	P2 --- 1/28/93	DPK	CR1-CR4 WAS 1N6263. C30 WAS .01uF. ADDED L22. R23 & R24.										WB	P1 --- 1-4-94	DPK	APV	ITS CORPORATION										REV	ECN	DATE	APV																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							

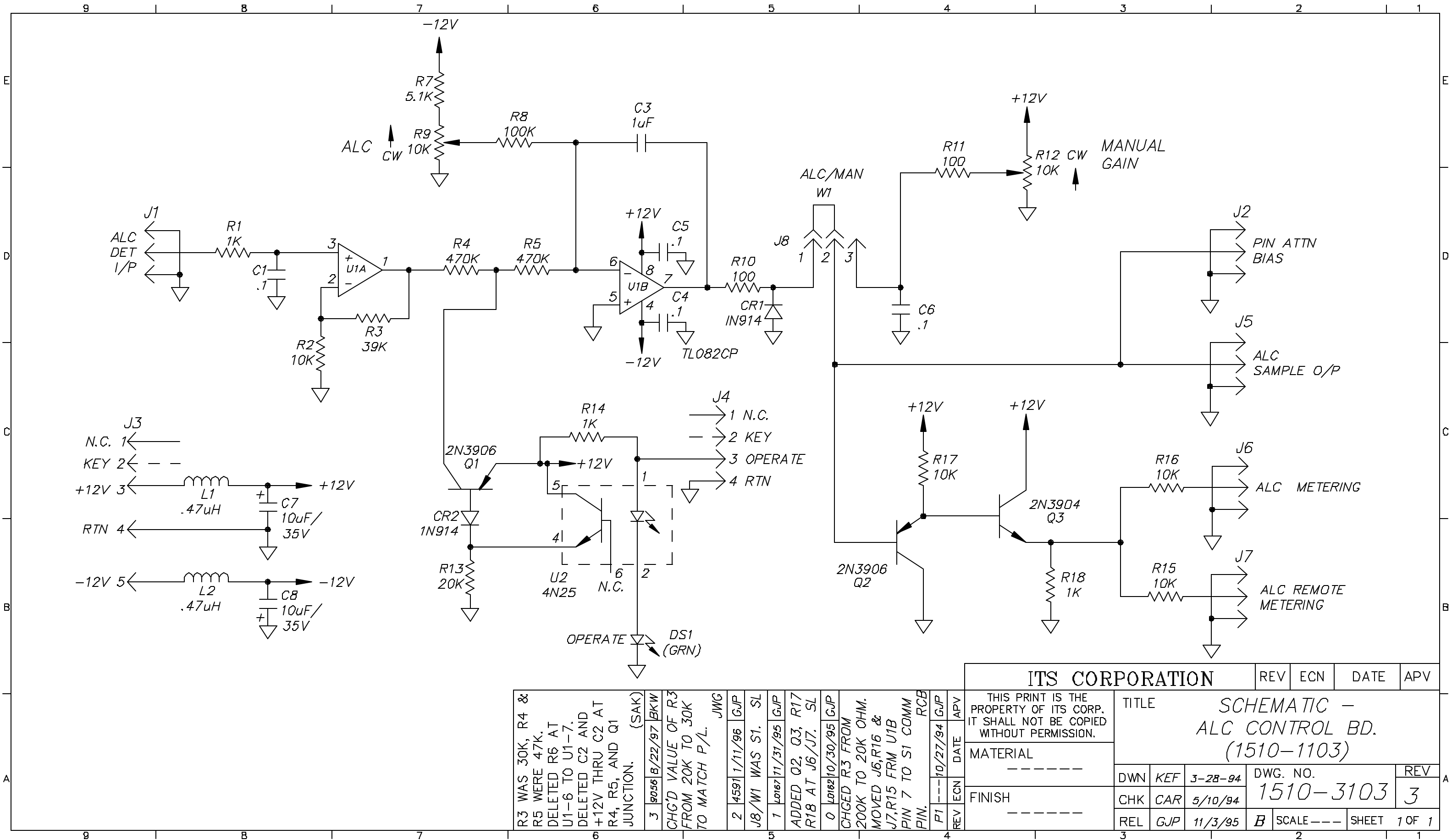


NOTE: C3 & C4 ARE PROBE CAPACITANCE TO RESONATOR RODS.
C1, C2 & C5 ARE TUNING SCREWS.

ITS CORPORATION				REV	ECN	DATE	APV
REV	ECN	DATE	APV	THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.			
				MATERIAL			
				FINISH			
TITLE				SCHEMATIC – BROAD BAND CAVITY FILTER, 3 SECTION (1107–1101)			
DWN		JEO	6/27/88	DWG. NO.		REV	
CHK		RE	6/29/88	1107–3101		0	
REL		RE	6/29/88	A	SCALE ---	SHEET 1 OF 1	

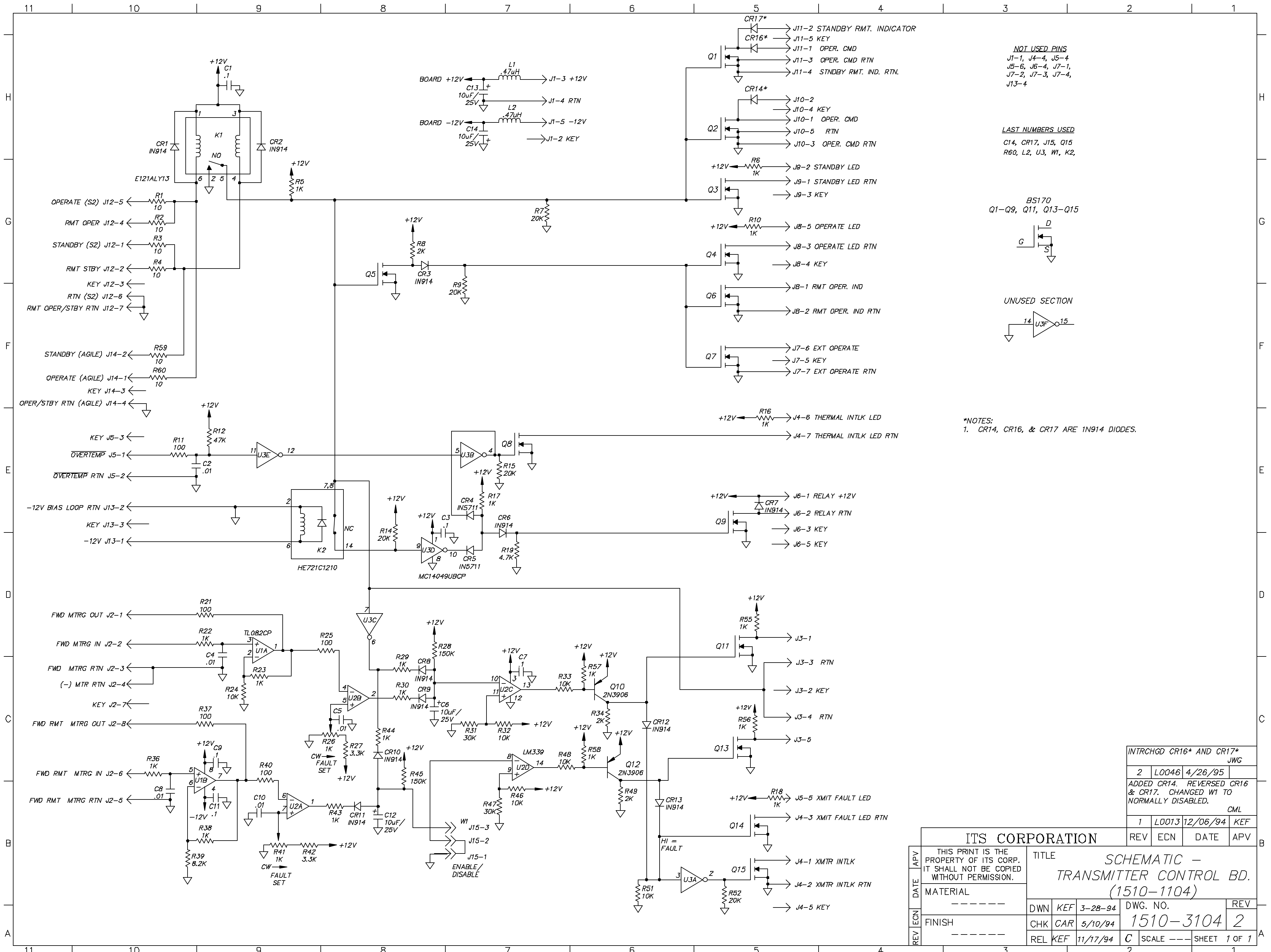


ITS CORPORATION				REV	ECN	DATE	APV
THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.		TITLE <i>SCHEMATIC-VHF GENERATOR BD. (1500-1102)</i>					
MATERIAL ----		DWN <i>RJB 12/15/92</i> DWG. NO. <i>1500-3102</i>					REV <i>7</i>
FINISH ----		CHK <i>CAR 3/3/93</i>					A
		REL <i>CAR 3/3/93</i> D SCALE---- SHEET 1 OF 1					



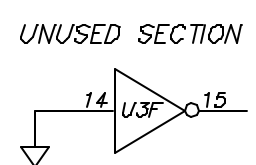
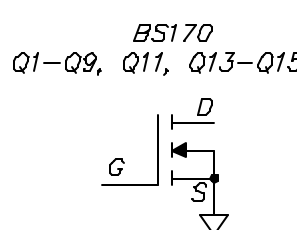
R3 WAS 30K, R4 & R5 WERE 47K. DELETED R6 AT U1-6 TO U1-7. DELETED C2 AND +12V THRU C2 AT R4, R5, AND Q1 JUNCTION. (SAK)									
3	8056	8/22/97	BKW	CHG'D VALUE OF R3 FROM 20K TO 30K TO MATCH P/L.	JWG	2	4591	1/11/96	GJP
J8/W1 WAS S1. SL									
1	10187	11/31/95	GJP	ADDED Q2, Q3, R17 R18 AT J6/J7. SL		0	10182	10/30/95	GJP
CHG'D R3 FROM 200K TO 20K OHM. MOVED J6, R16 & J7, R15 FRM U1B PIN 7 TO S1 COMM PIN.									
P1	---	10/27/94	GJP	REV	ECN	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 - ALC CONTROL BD. (1510-1103)						
DWN	KEF	3-28-94	DWG. NO.		REV	
CHK	CAR	5/10/94	1510-3103		3	
REL	GJP	11/3/95	B	SCALE---	SHEET	1 OF 1



NOT USED PINS
J1-1, J4-4, J5-4
J5-6, J6-4, J7-1,
J7-2, J7-3, J7-4,
J13-4

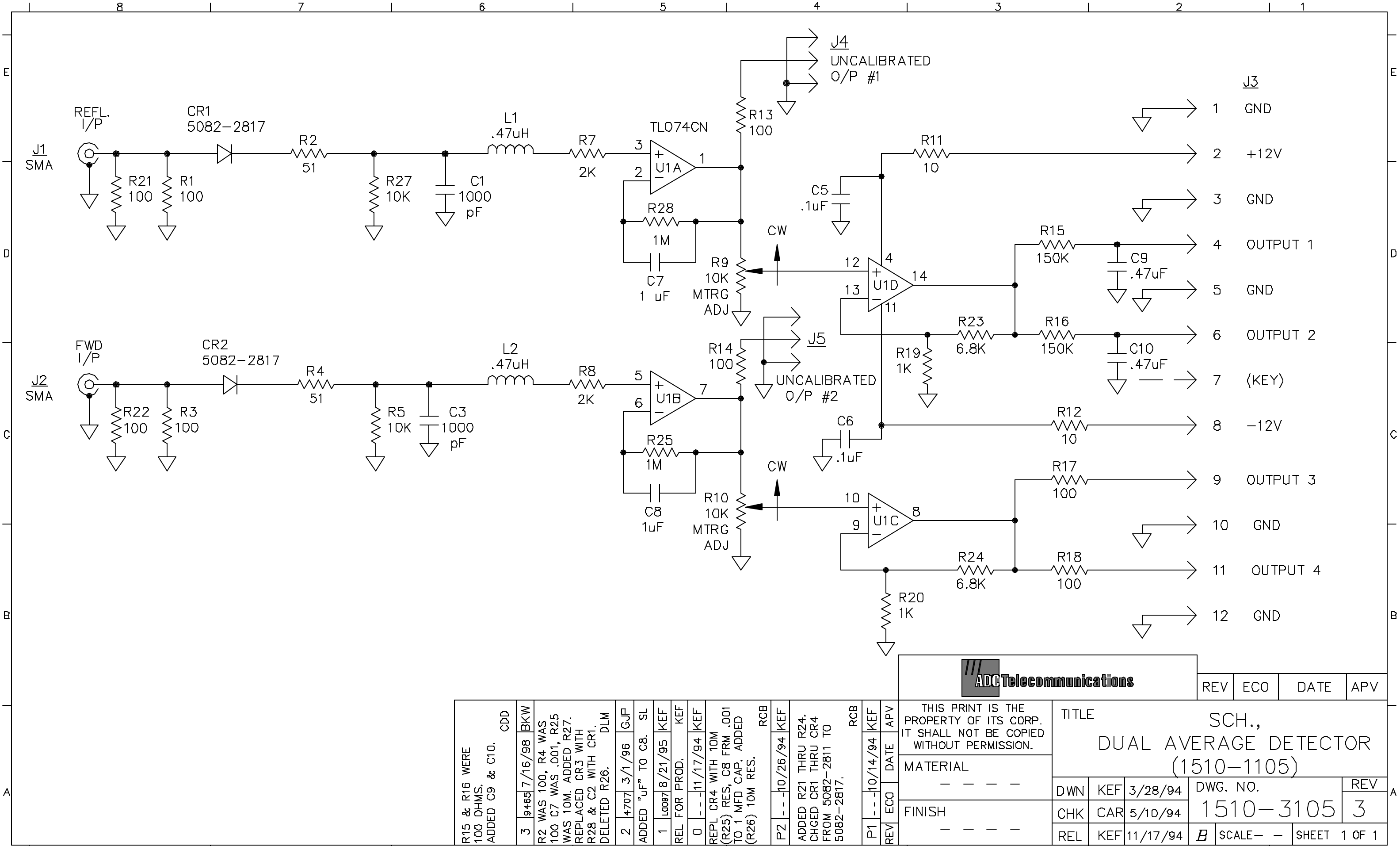
LAST NUMBERS USED
C14, CR17, J15, Q15
R60, L2, U3, W1, K2,

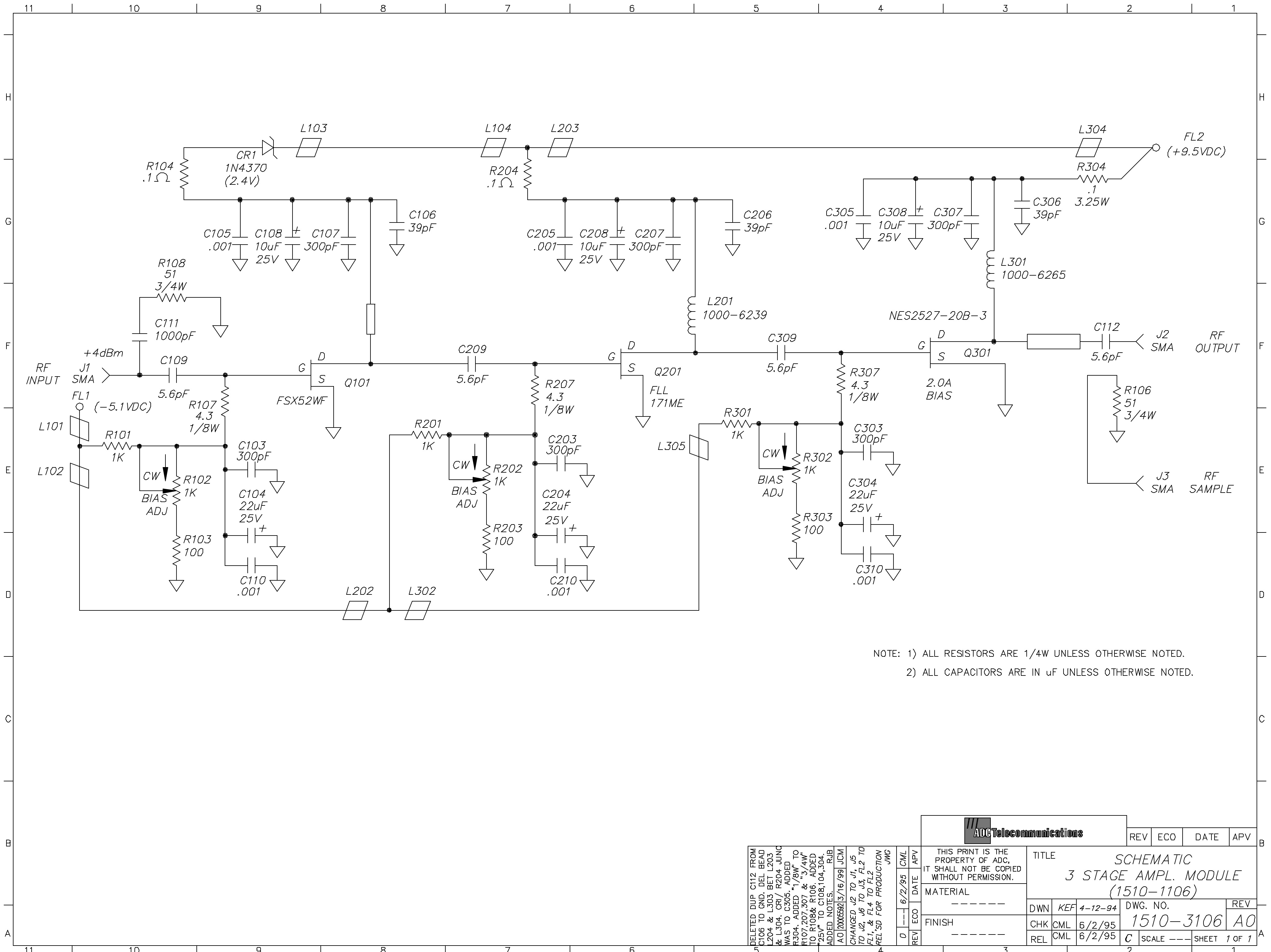


*NOTES:
1. CR14, CR16, & CR17 ARE 1N914 DIODES.

INTRCHGD CR16* AND CR17* JWG			
2	L0046	4/26/95	
ADDED CR14. REVERSED CR16 & CR17. CHANGED W1 TO NORMALLY DISABLED.			
1	L0013	12/06/94	KEF

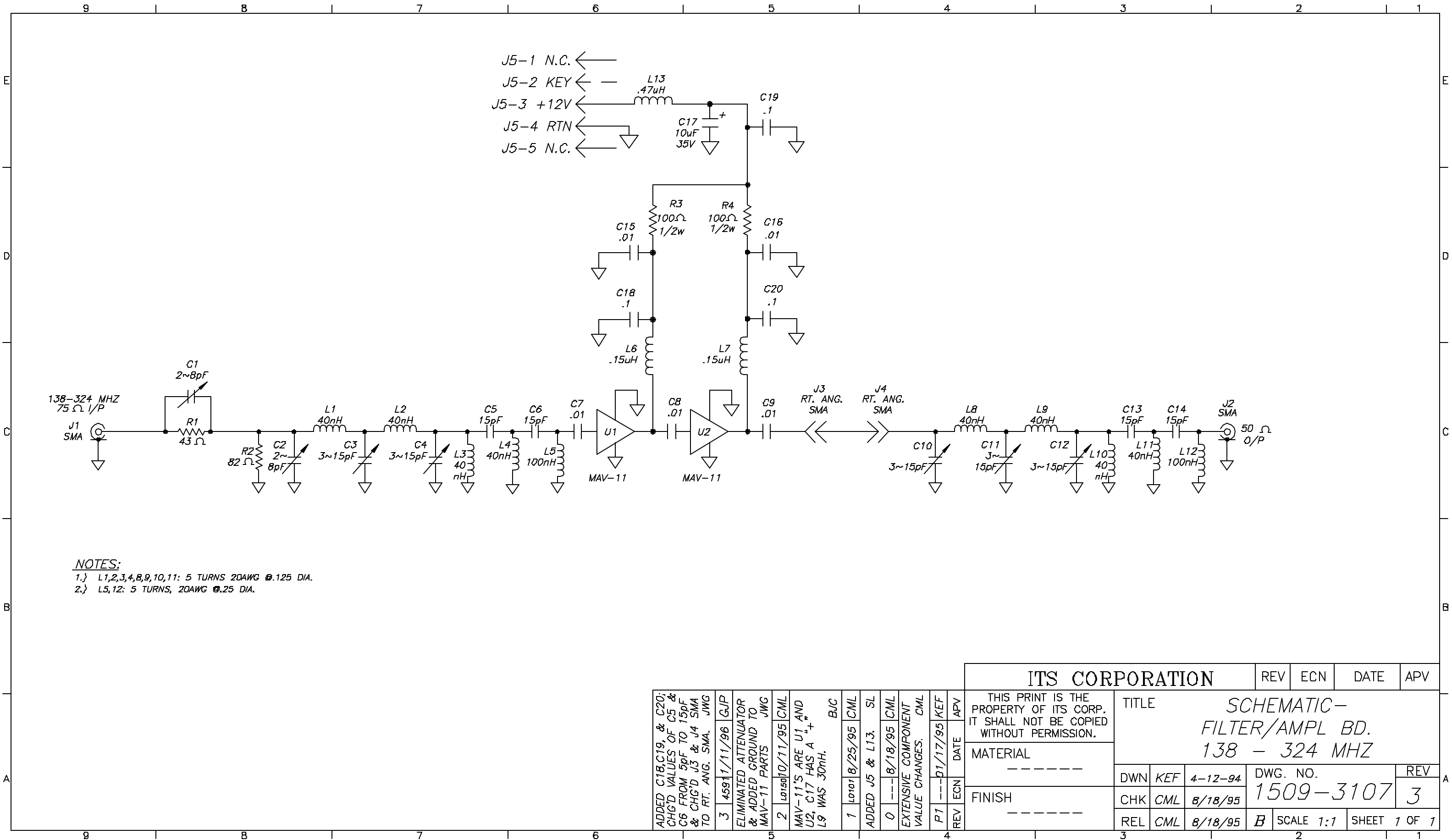
ITS CORPORATION				REV	ECN	DATE	APV
THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.				TITLE			
				SCHEMATIC - TRANSMITTER CONTROL BD. (1510-1104)			
MATERIAL				DWN	KEF	3-28-94	DWG. NO.
FINISH				CHK	CAR	5/10/94	1510-3104
				REL	KEF	11/17/94	2
				SCALE --- SHEET 1 OF 1			





NOTE: 1) ALL RESISTORS ARE 1/4W UNLESS OTHERWISE NOTED.
2) ALL CAPACITORS ARE IN uF UNLESS OTHERWISE NOTED.

ADCTelecommunications				REV	ECO	DATE	APV
THIS PRINT IS THE PROPERTY OF ADC, IT SHALL NOT BE COPIED WITHOUT PERMISSION.				TITLE			
				SCHEMATIC			
MATERIAL				3 STAGE AMPL. MODULE			
				(1510-1106)			
FINISH				DWN	KEF	4-12-94	DWG. NO.
				CHK	CML	6/2/95	1510-3106
REL				REL	CML	6/2/95	REV
				C	SCALE	---	1 OF 1

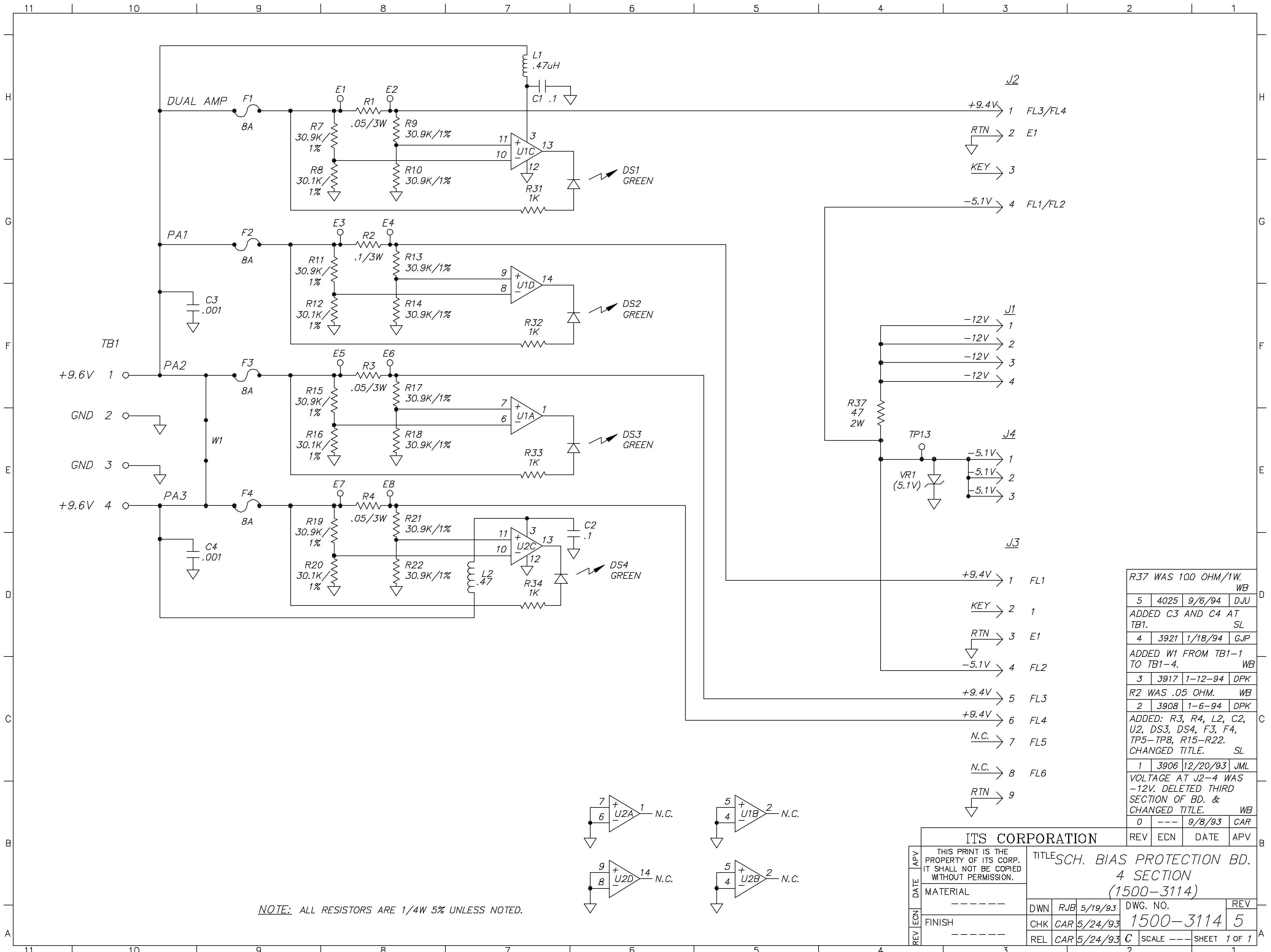


NOTES:

- 1.) L1,2,3,4,8,9,10,11: 5 TURNS 20AWG @.125 DIA.
- 2.) L5,12: 5 TURNS, 20AWG @.25 DIA.

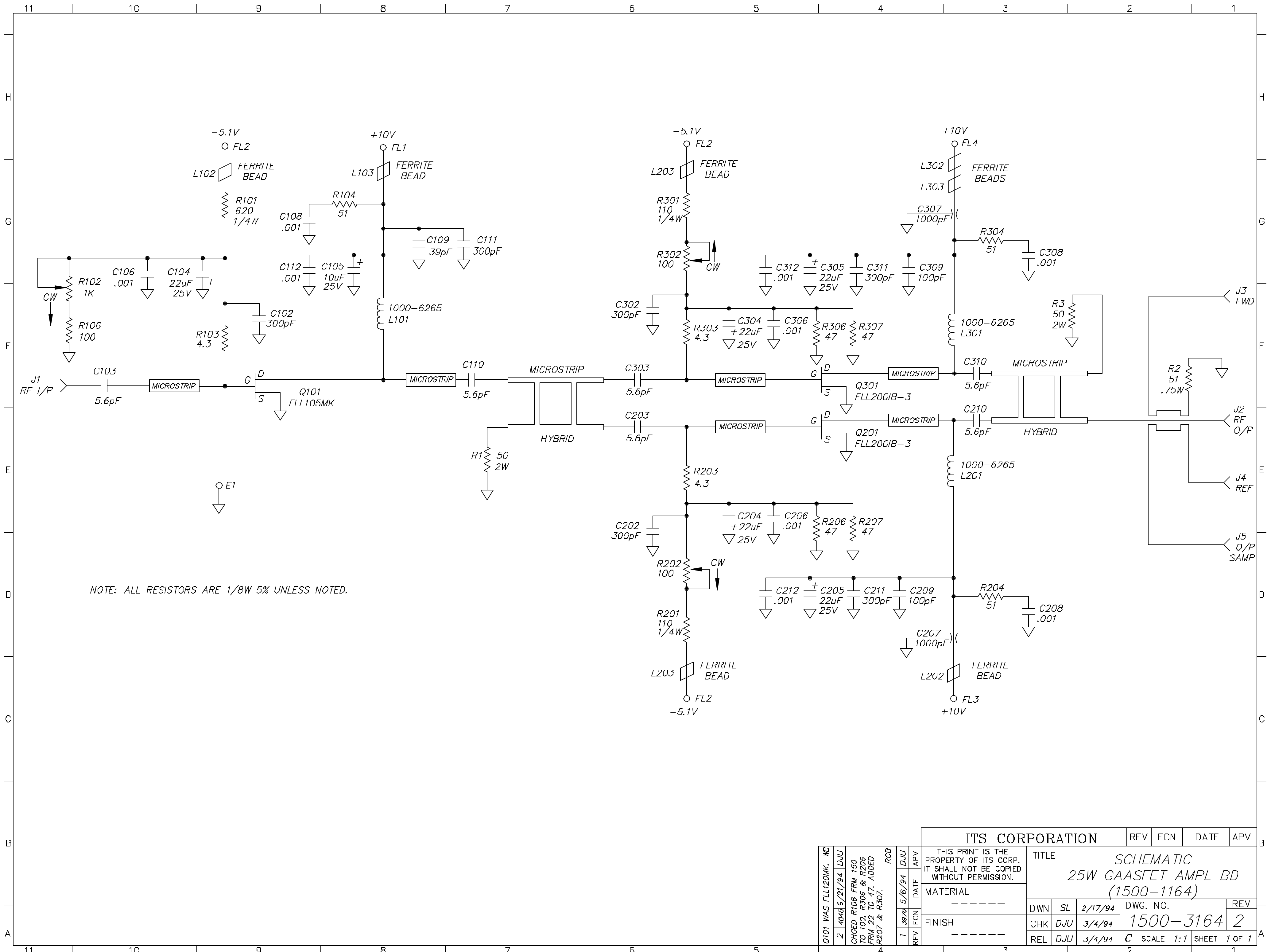
ADDED C18,C19, & C20: CHG'D VALUES OF C5 & C6 FROM 5pF TO 15pF & CHG'D J3 & J4 SMA TO RT. ANG. SMA. JWG		3	459	11/11/96	GJP
		ELIMINATED ATTENUATOR & ADDED GROUND TO MAV-11 PARTS JWG			
		2	10150	10/11/95	CML
		MAV-11'S ARE U1 AND U2, C17 HAS A "+" L9 WAS 30nH. BUC			
ADDED J5 & L13. SL		1	10101	8/25/95	CML
		0	---	8/18/95	CML
		EXTENSIVE COMPONENT VALUE CHANGES. CML			
		P1	---	01/17/95	KEF
REV	ECN	DATE	APV		

ITS CORPORATION			REV	ECN	DATE	APV
THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.			TITLE SCHEMATIC- FILTER/AMPL BD. 138 - 324 MHZ			
			MATERIAL -----			
FINISH -----			DWN	KEF	4-12-94	DWG. NO. 1509-3107
			CHK	CML	8/18/95	REV 3
REL	CML	8/18/95	B	SCALE 1:1	SHEET 1 OF 1	



R37 WAS 100 OHM/1W. WB			
5	4025	9/6/94	DJU
ADDED C3 AND C4 AT TB1. SL			
4	3921	1/18/94	GJP
ADDED W1 FROM TB1-1 TO TB1-4. WB			
3	3917	1-12-94	DPK
R2 WAS .05 OHM. WB			
2	3908	1-6-94	DPK
ADDED: R3, R4, L2, C2, U2, DS3, DS4, F3, F4, TP5-TP8, R15-R22. CHANGED TITLE. SL			
1	3906	12/20/93	JML
VOLTAGE AT J2-4 WAS -12V. DELETED THIRD SECTION OF BD. & CHANGED TITLE. WB			
0	---	9/8/93	CAR

ITS CORPORATION				REV	ECN	DATE	APV
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				DWG. NO. 1500-3114			
REV	ECN	DATE	APV	CHK	CAR	5/24/93	5
REL	CAR	5/24/93	C	SCALE	---	SHEET	1 OF 1



NOTE: ALL RESISTORS ARE 1/8W 5% UNLESS NOTED.

Q101 WAS FLL120MK. WB				RCB				THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.				TITLE			
2	1404	9/21/94	DJU	CHGED R106 FRM 150 TO 100, R306 & R206 FRM 22 TO 47. ADDED R207 & R307.	1	397	5/6/94	DATE	APV	SCHEMATIC				REV	ECN
								MATERIAL				25W GAASFET AMPL BD			
								FINISH				(1500-1164)			
												DWN	SL	2/17/94	DWG. NO.
												CHK	DJU	3/4/94	1500-3164
												REL	DJU	3/4/94	2
												SCALE 1:1			
												SHEET 1 OF 1			