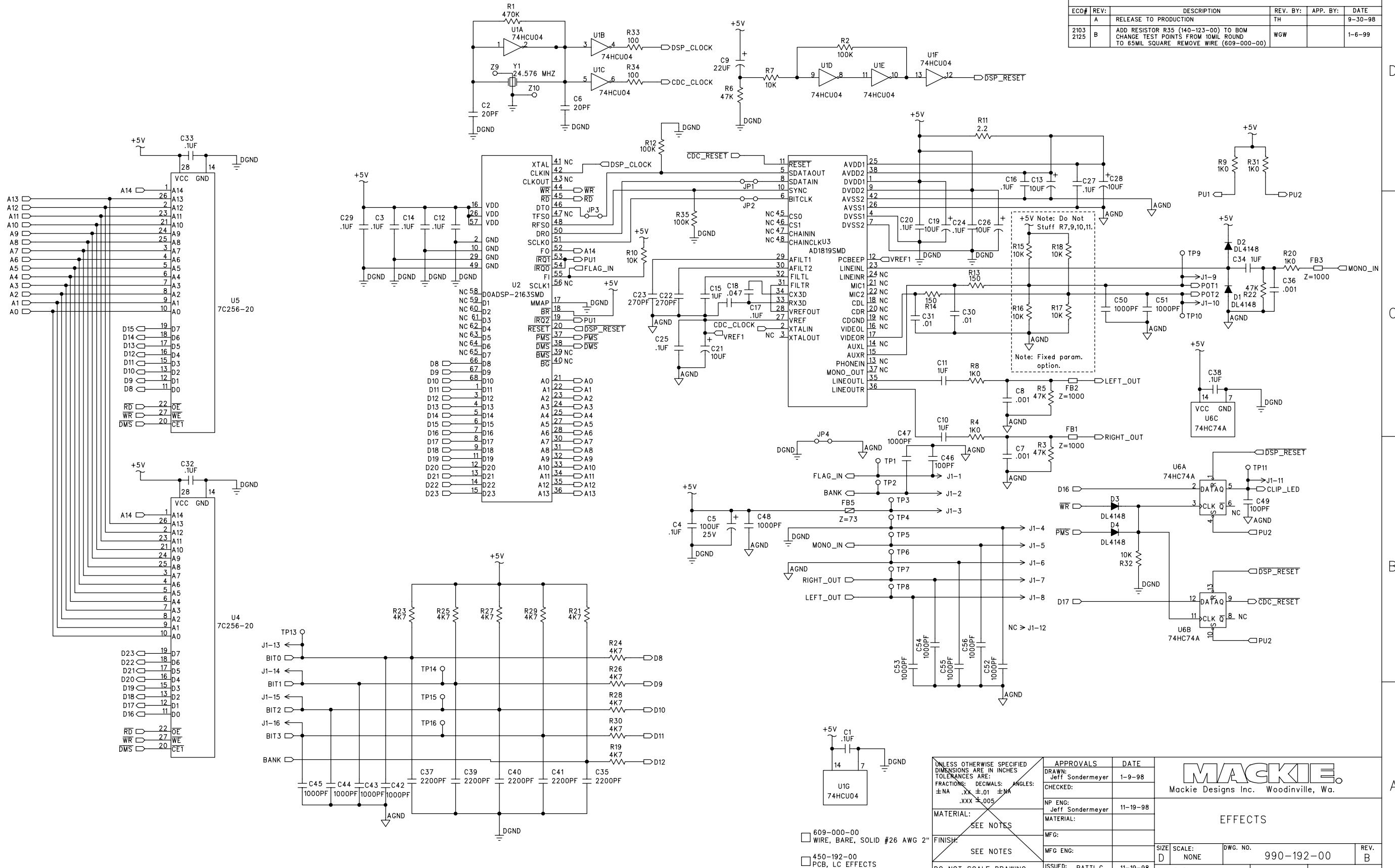
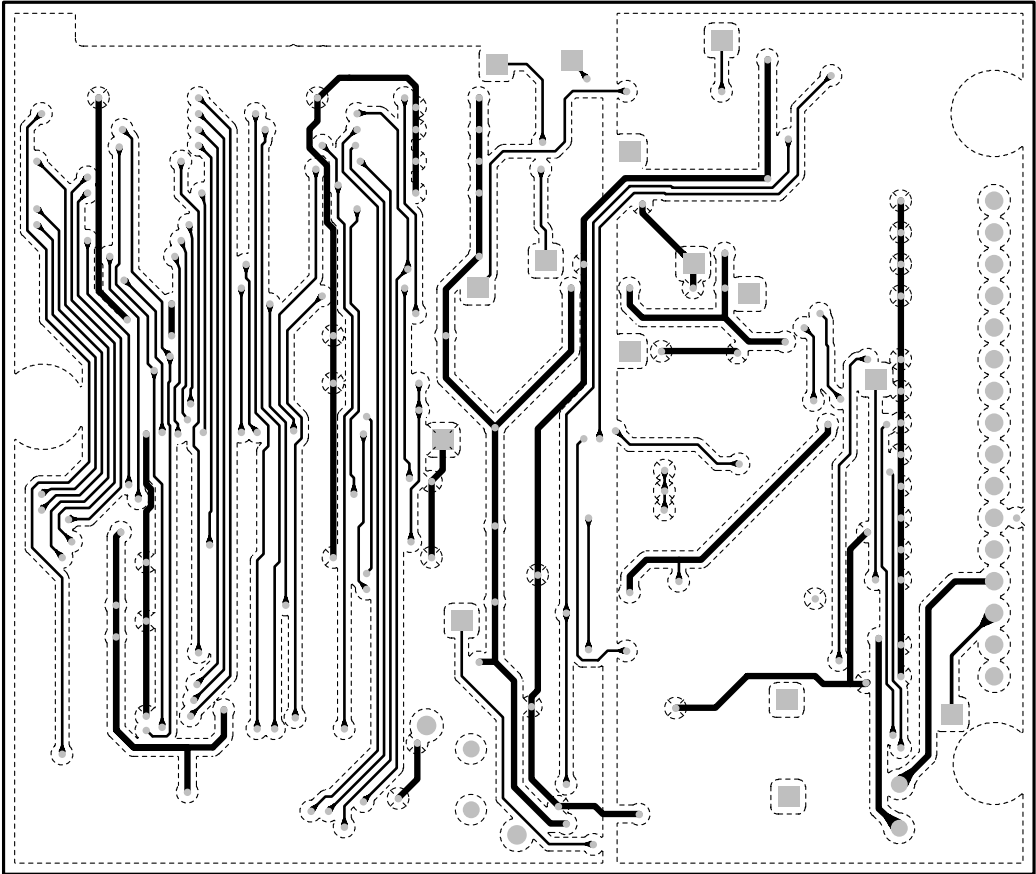
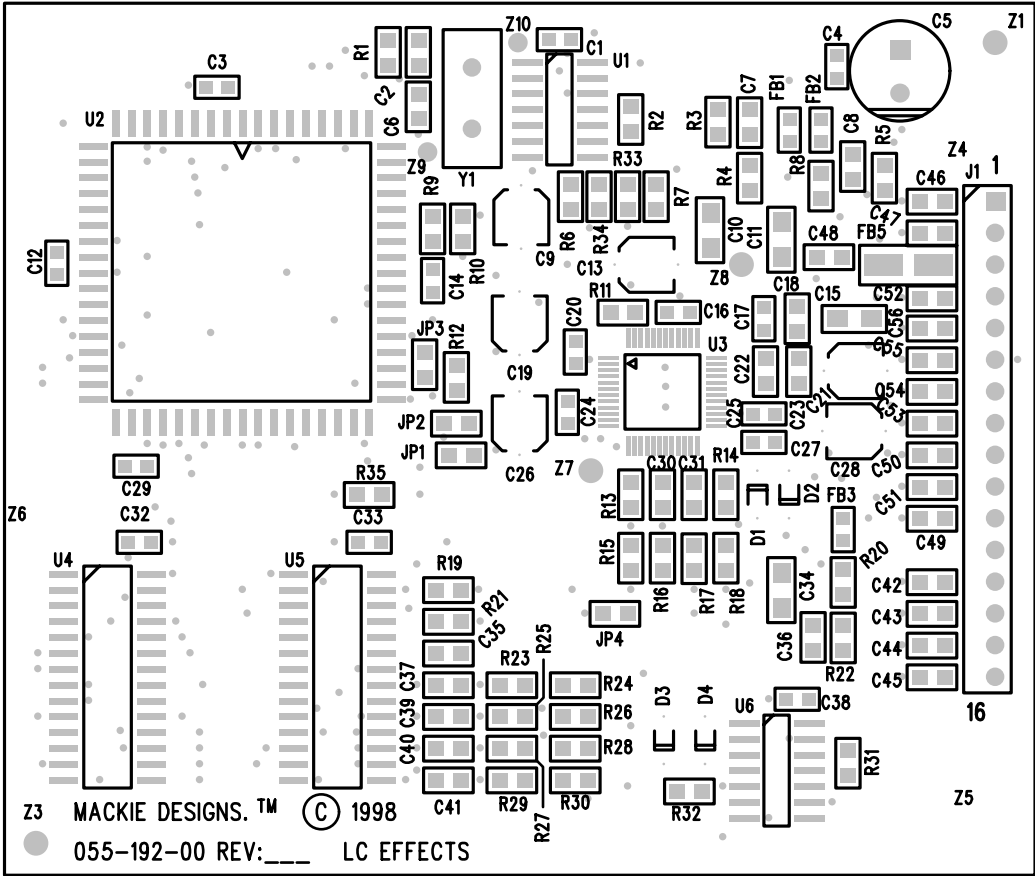
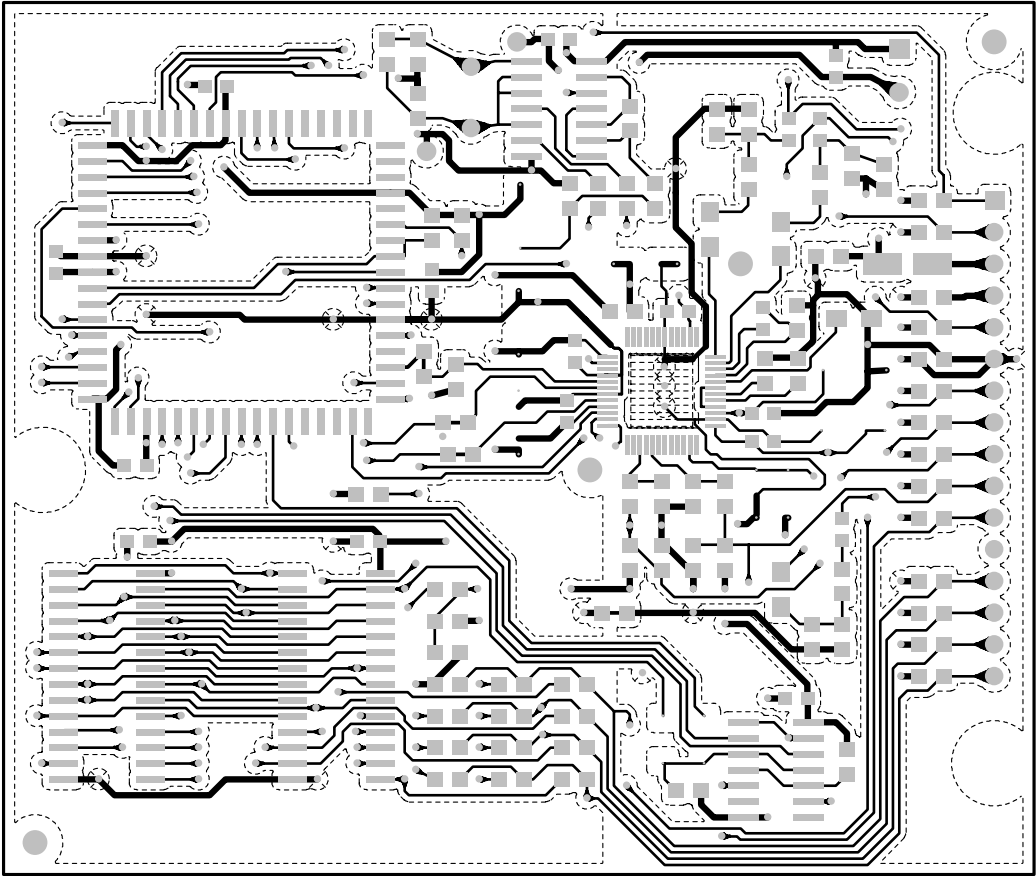


ECO#	REV:	DESCRIPTION	REV. BY:	APP. BY:	DATE
	A	RELEASE TO PRODUCTION	TH		9-30-98
2103 2125	B	ADD RESISTOR R35 (140-123-00) TO BOM CHANGE TEST POINTS FROM 10MIL ROUND TO 65MIL SQUARE REMOVE WIRE (609-000-00)	WGW		1-6-99





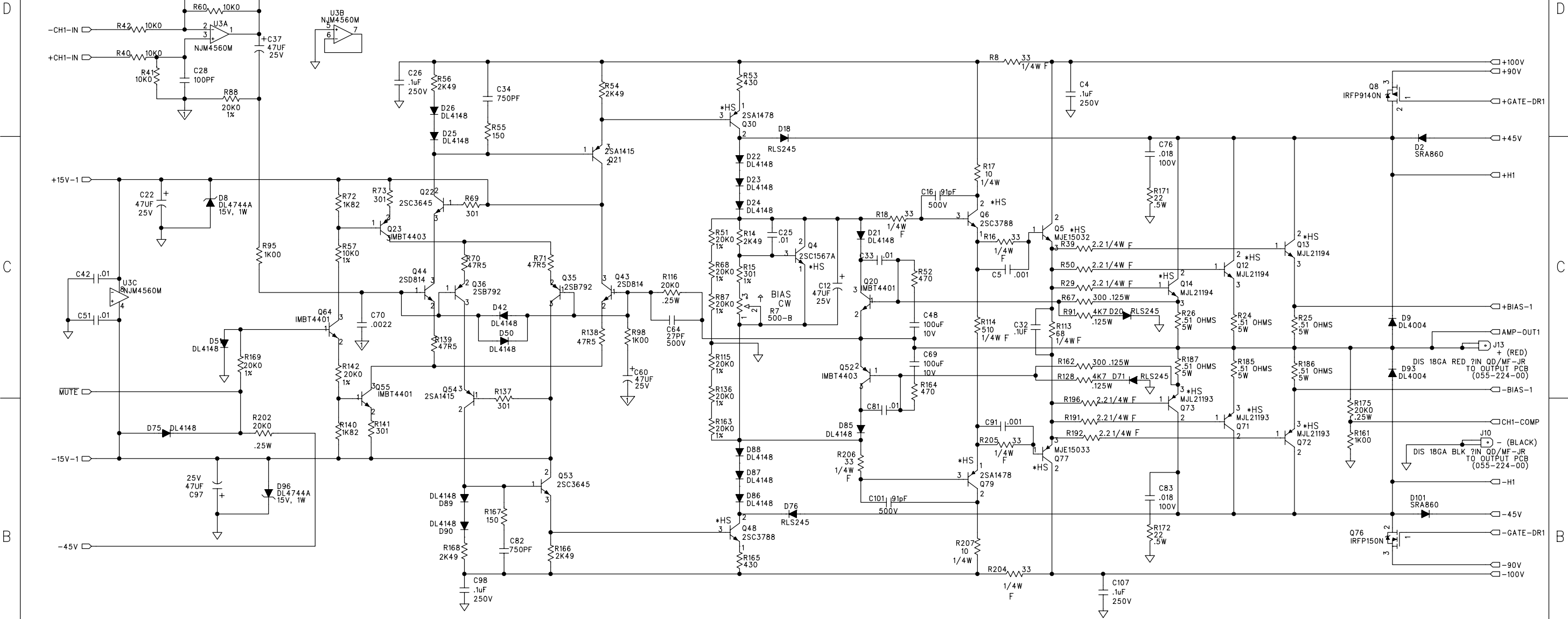
Bottom of board



Top of board

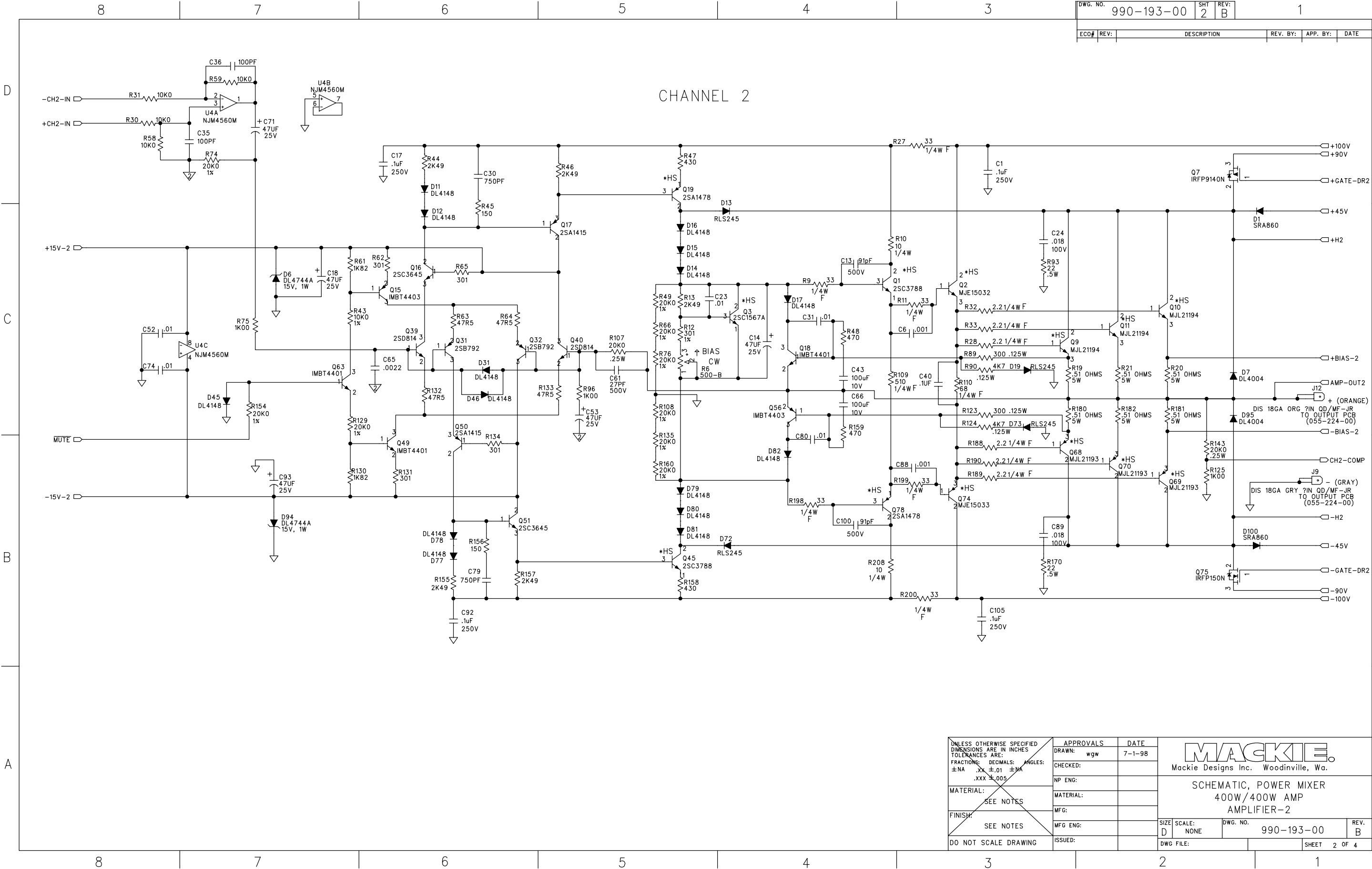
DWG. NO.		990-193-00		SHT	1	REV:	B	1
ECO#	REV:	DESCRIPTION				REV. BY:	APP. BY:	DATE
	A	RELEASE TO PRODUCTION				CDJ		12-2-98
2155	B	ADD SUB-ASSY 080-131,132 TO BOM				WGW		2-18-99
2172		Chg product to accept 2ohm load. FIX BUZZ BY CHANGING GND						

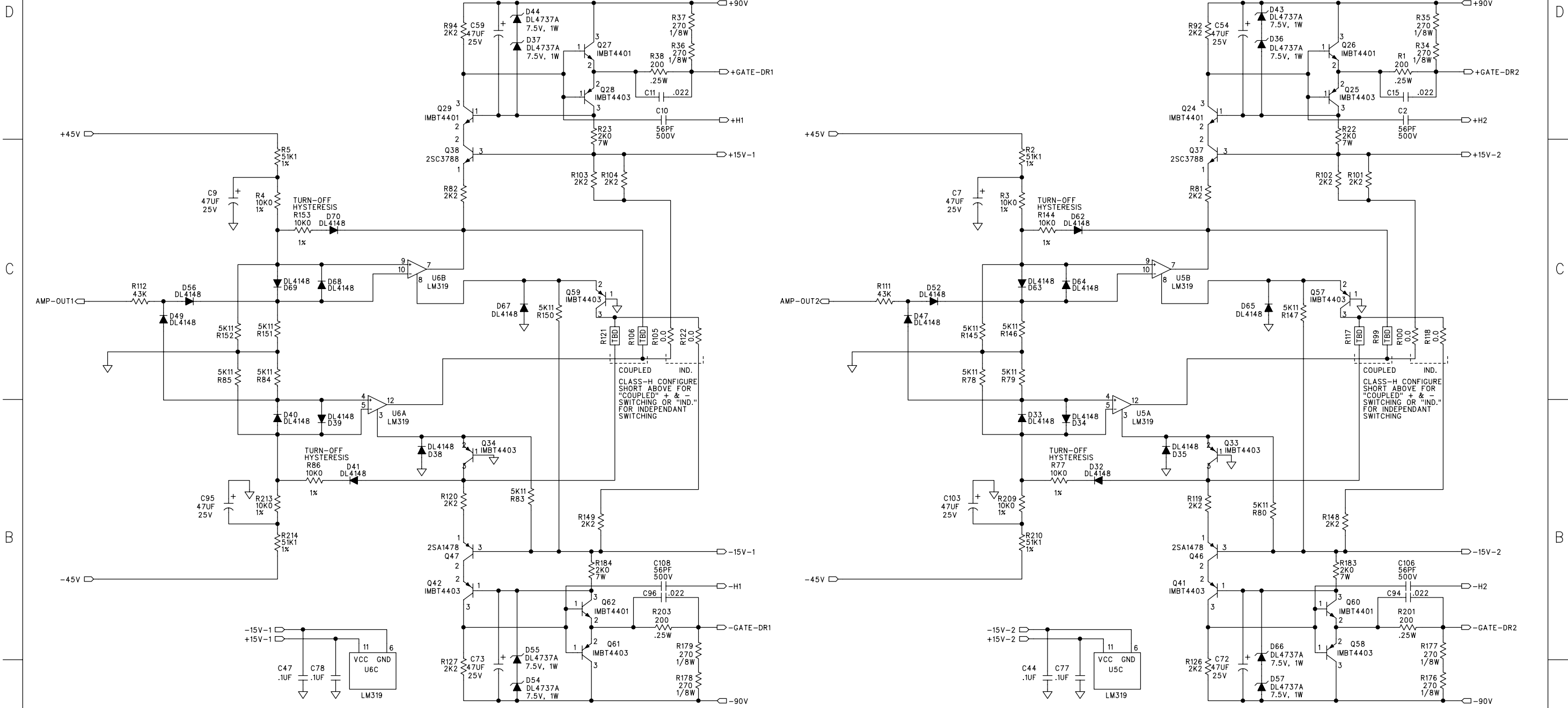
CHANNEL 1



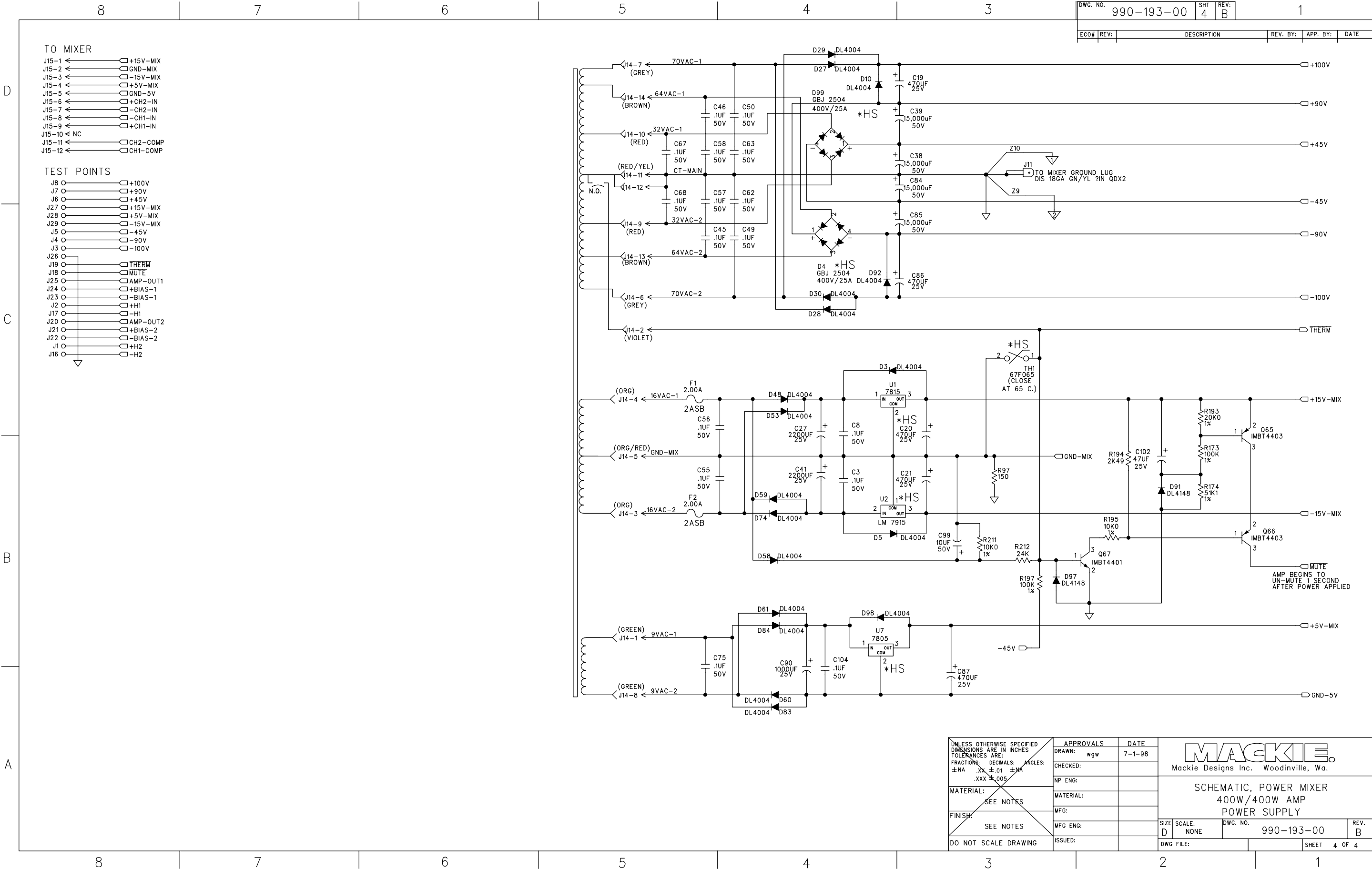
450-193-00
POWERED MIXER 800W AMP

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: .XX ±.01 ±.005 DECIMALS: .XXX ±.005 ANGLES: ±.1° MATERIAL: SEE NOTES FINISH: SEE NOTES DO NOT SCALE DRAWING	APPROVALS wgv	DATE 7-1-98	MACKIE. Mackie Designs Inc. Woodinville, Wa. SCHEMATIC, POWER MIXER 400W/400W AMP AMPLIFIER-1
	CHECKED: Cal P	12-18-98	
	NP ENG: CJ	12-18-98	
	MFG:		
SIZE: D SCALE: NONE DWG. NO. 990-193-00 SHEET 1 OF 4	MFG ENG: Leigh	12-18-98	REV. B
	ISSUED:		

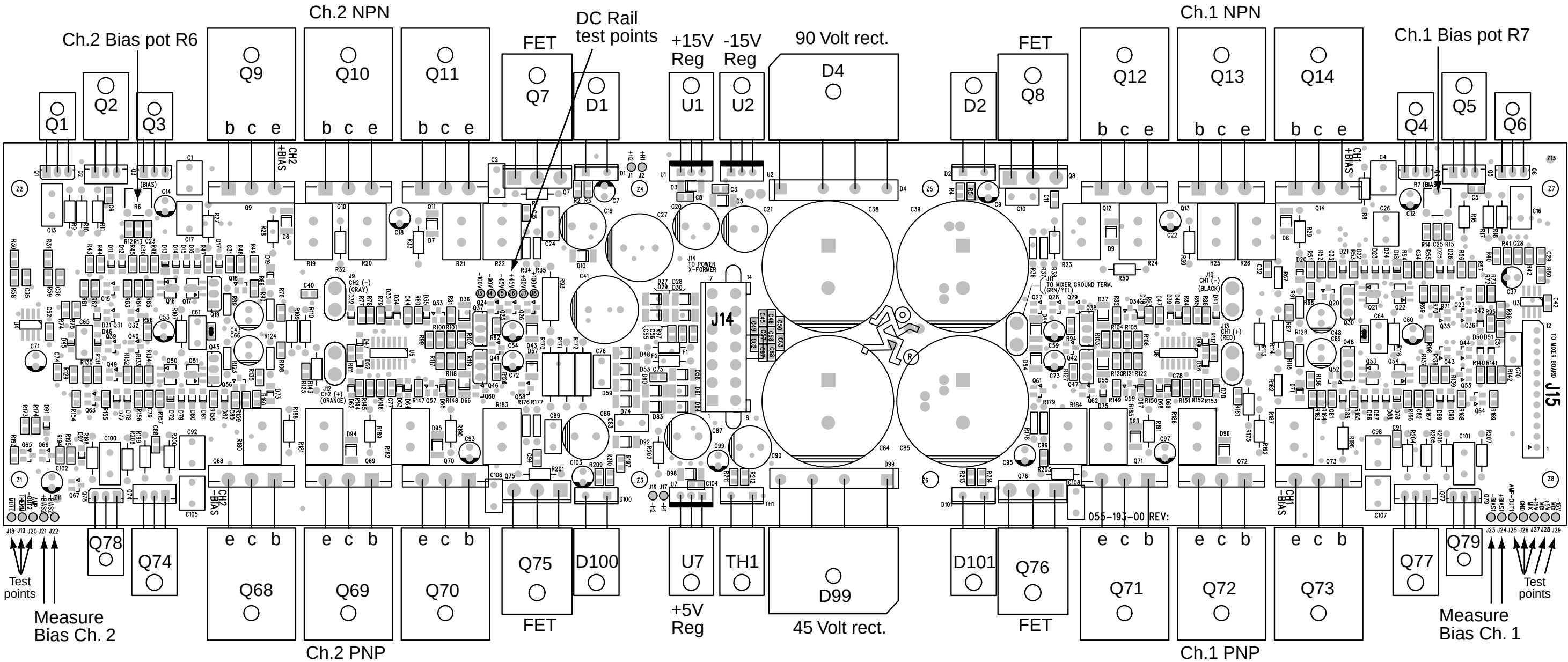




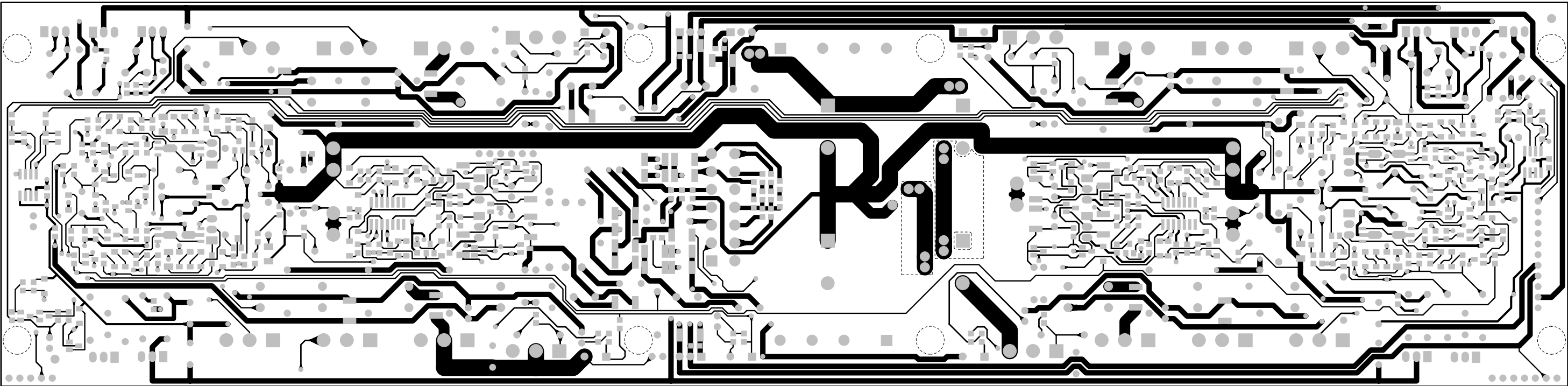
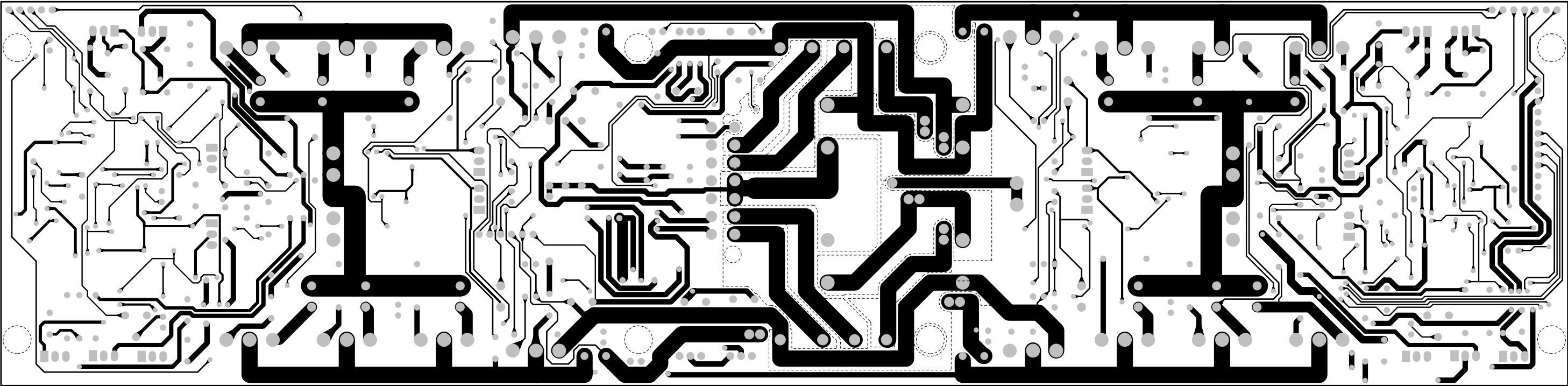
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: DECIMALS: ANGLES: ±.NA .XX ±.01 ±.NA .XXX ±.005	APPROVALS	DATE	MACKIE. Mackie Designs Inc. Woodinville, Wa. SCHEMATIC, POWER MIXER 400W/400W AMP CLASS-H SWITCHING		
	DRAWN: wgw	7-1-98			
	CHECKED:				
	NP ENG:				
	MATERIAL:				
MATERIAL: SEE NOTES	MFG:		SIZE SCALE: NONE DWG. NO. 900-193-00 REV. B		
FINISH: SEE NOTES	MFG ENG:				
DO NOT SCALE DRAWING	ISSUED:				
			DWG FILE:	SHEET 3 OF 4	



				POWERED MIXER SERVICE MANUAL				MACKIE.
Part #	Description	Type	Reference Designator	Part #	Description	Type	Reference Designator	
300-003-00	DIODE SIGNAL SMD	DL4148	D11-12 D14-17 D21-26 D31-35 D38-42 D45-47 D49-52 D56 D62-65 D67-70 D75 D77-82 D85-91 D97	310-053-00	XSTR MOSFET PCH IRFP9140N	IRFP9140N	Q7-8	
				310-054-00	XSTR MOSFET IRFP150N	IRFP150N	Q75-76	
300-010-00	DIODE SIGNAL SMD	RLS245	D13 D18-20 D71-73 D76	311-001-00	X-SISTOR NPN SMD	IMBT4401	Q18 Q20 Q24 Q26-27 Q29 Q49 Q55 Q60 Q62-64 Q67	
301-019-00	DIO PWR BRDG 25A 400V SIP	GBJ 2504	D4 D99				Q15 Q23 Q25 Q28 Q33-34 Q41-42 Q52 Q56-59 Q61 Q65-66	
301-021-00	DIO PWR DL4004 SM	DL4004	D3 D5 D7 D9-10 D27-30 D48 D53 D58-61 D74 D83-84 D92-93 D95 D98	311-002-00	X-SISTOR PNP SMD	IMBT4403	Q17 Q21 Q50 Q54 Q16 Q22 Q51 Q53 Q31-32 Q35-36 Q39-40 Q43-44	
301-024-00	DIO STKY SRA860	SRA860	D1-2 D100-101	311-007-00	TRANSISTOR PNP SMD	2SA1415	U3-4	
302-022-03	DIO ZEN DL4744 15V 1W	DL4744A	D6 D8 D94 D96	311-008-00	TRANSISTOR NPN SMD	2SC3645	U2 VOLTAGE REGULATOR	
302-024-03	DIO ZEN DL4737 7.5V 1W	DL4737A	D36-37 D43-44 D54-55 D57 D66	311-019-00	TRANSISTOR PNP SMD	2SB792	U1 VOLTAGE REGULATOR	
310-033-00	TRANSISTOR PNP	MJL21193	Q68-73	311-020-00	TRANSISTOR NPN SMD	2SD814	U7 VOLTAGE REGULATOR	
310-034-00	TRANSISTOR NPN	MJL21194	Q9-14	320-012-00	I.C. LINEAR SMD	NJM4560M	U5-6	
310-035-00	TRANSISTOR PNP	2SA1478	Q46-47 Q78-79	321-001-00	I.C. LINEAR NEG 3 TERM	LM 7915		
310-036-00	TRANSISTOR NPN	2SC3788	Q1 Q6 Q37-38	321-002-00	I.C. LINEAR POS 3 TERM	LM 7815		
310-042-00	TRANSISTOR NPN	MJE15032	Q2 Q5	321-003-00	I.C. LINEAR POS 3 TERM	LM 7805		
310-043-00	TRANSISTOR PNP	MJE15033	Q74 Q77	323-012-00	IC, COMP DUAL LM319 SM	LM319		
310-050-00	TRANSISTOR NPN	2SC1567A	Q3-4					

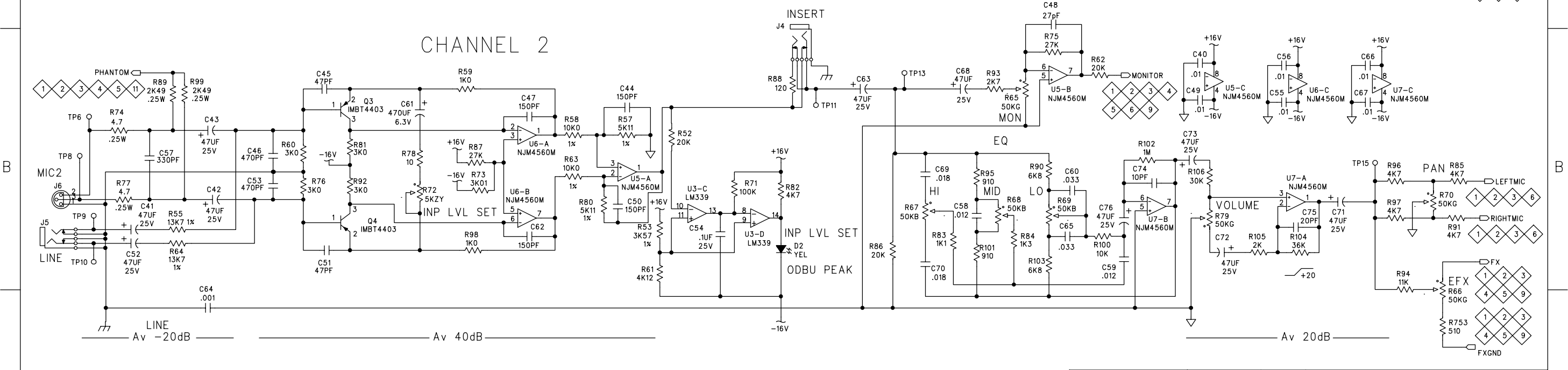
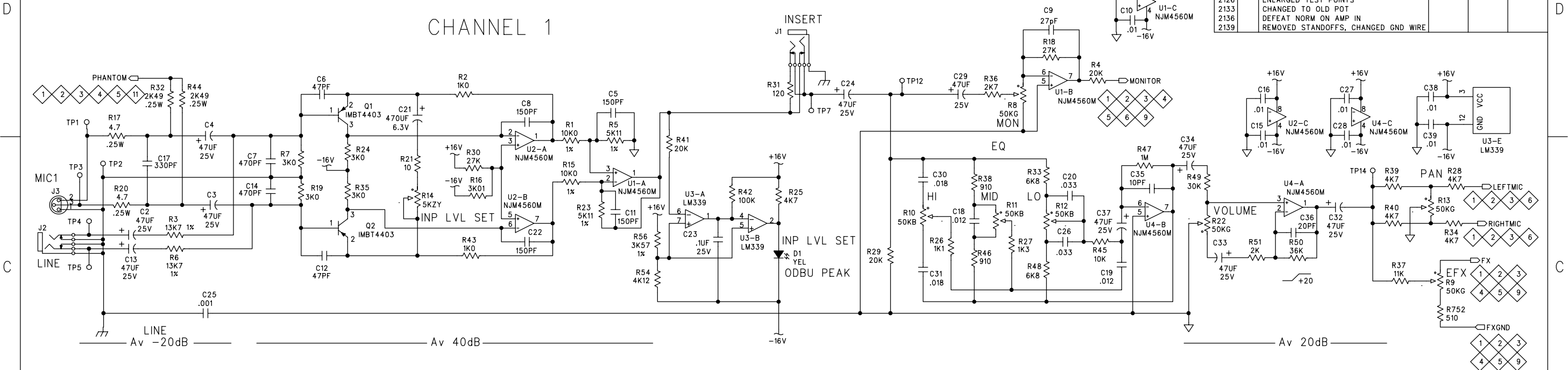


Bottom of Board



Top of Board

DWG. NO.	990-194-00	SHT	1	REV:	B	1
ECO#	REV:	DESCRIPTION	REV. BY:	APP. BY:	DATE	
A		RELEASE TO PRODUCTION	TH		11-11-98	
2088	B	CANCELED	TH		1-6-99	
2089		CHANGED BUTTONS ON SW1,SW4				
2092		BYPASSED BREAK SW OSC				
2126		ENLARGED TEST POINTS				
2133		CHANGED TO OLD POT				
2136		DEFEAT NORM ON AMP IN				
2139		REMOVED STANDOFFS, CHANGED GND WIRE				



706-038-00
STDF NO.4 X .250L

706-033-10
STDF SWAGE NO.4 X .527L F

450-194-00
PCB, 410S/810S MAIN

760-109-00
BUTTON, SM RECT DUAL COLOR W/EXT

760-107-00
BUTTON, SM RECT DUAL COLOR

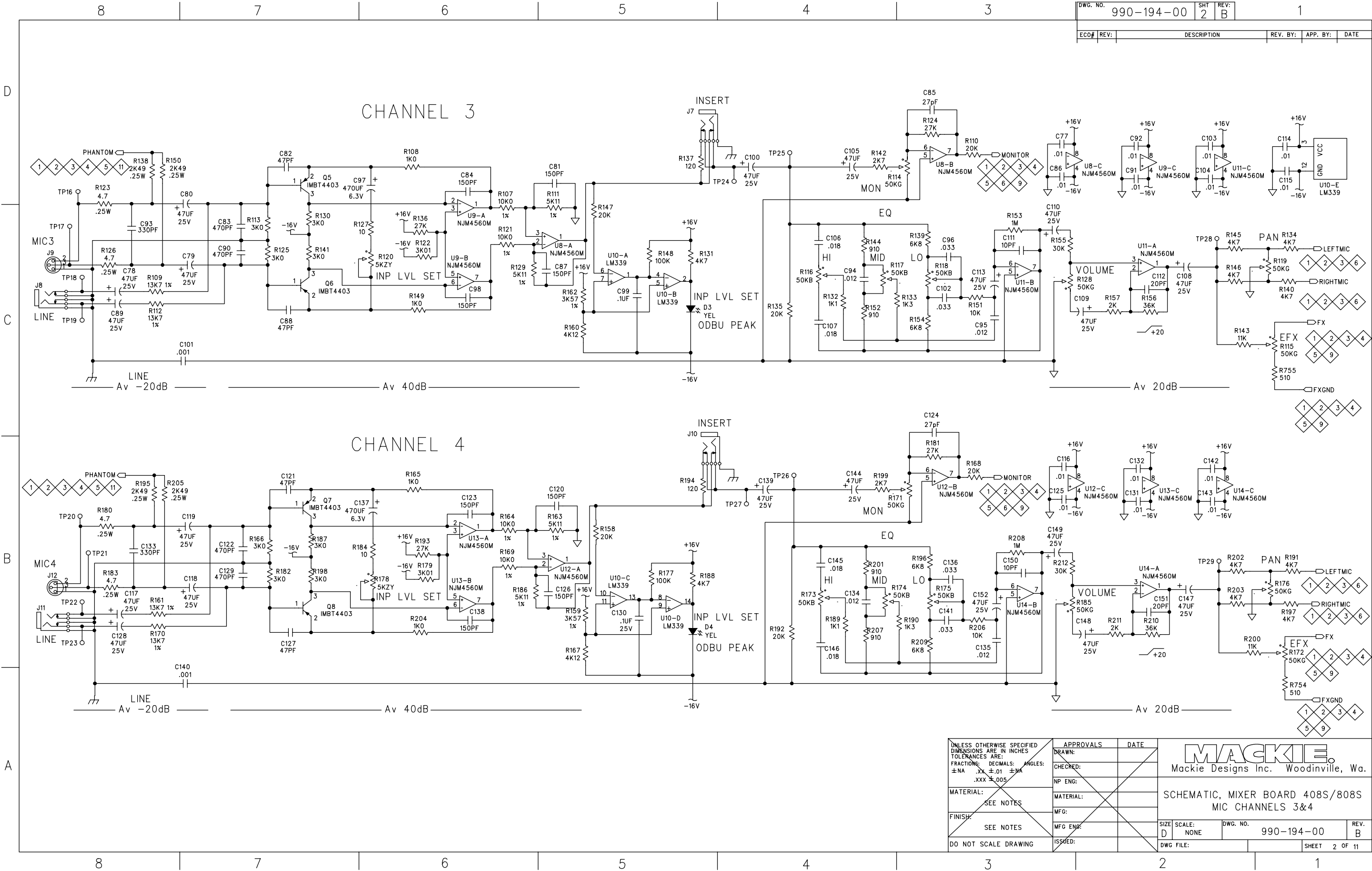
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: DECIMALS: ANGLES: ±.NA .XX ±.01 ±.NA .XXX ±.005	APPROVALS DRAWN: trh CHECKED: NP ENG: CJM MATERIAL: MFG: MFG ENG: CB ISSUED: LV	DATE 4-1-98 11-20-98 11-20-98 11-20-98
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DO NOT SCALE DRAWING

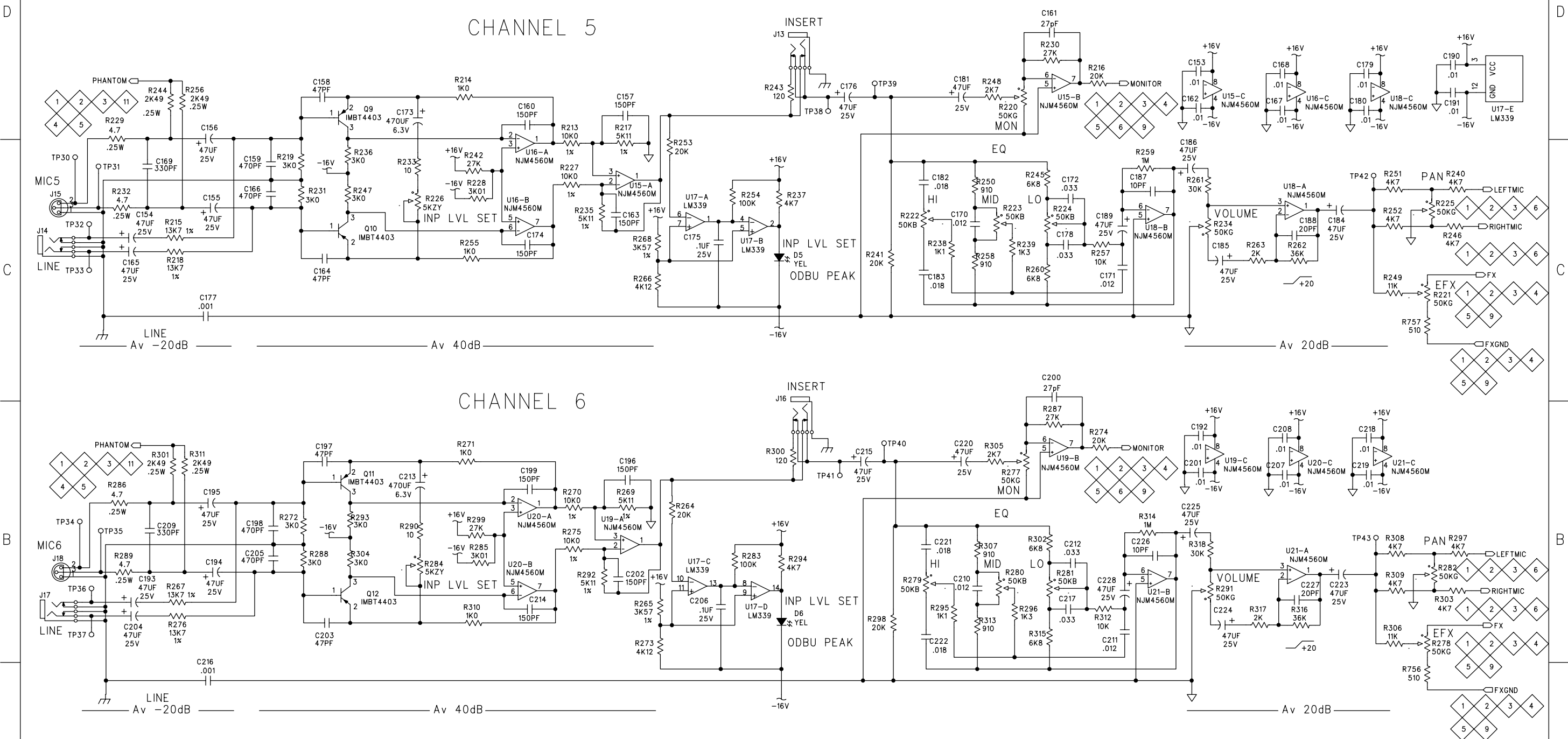
MACKIE.
Mackie Designs Inc. Woodinville, Wa.

SCHEMATIC, MIXER BOARD 408S/808S
MIC CHANNELS 1&2

SIZE: D SCALE: NONE DWG. NO. 990-194-00 REV. B
DWG FILE: SHEET 1 OF 11

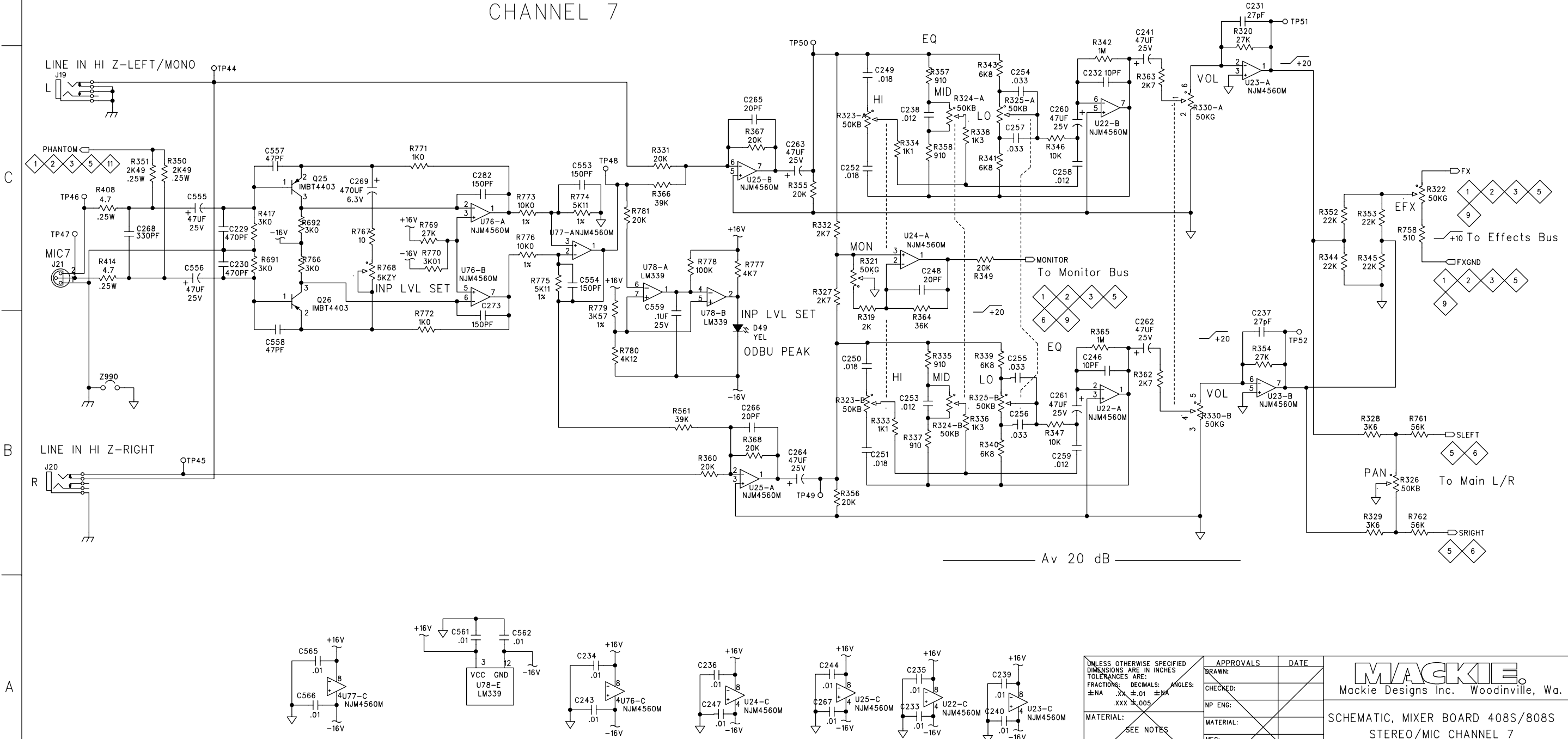


DWG. NO.	990-194-00	SHT	3	REV:	B	1
ECO#	REV:	DESCRIPTION	REV. BY:	APP. BY:	DATE	



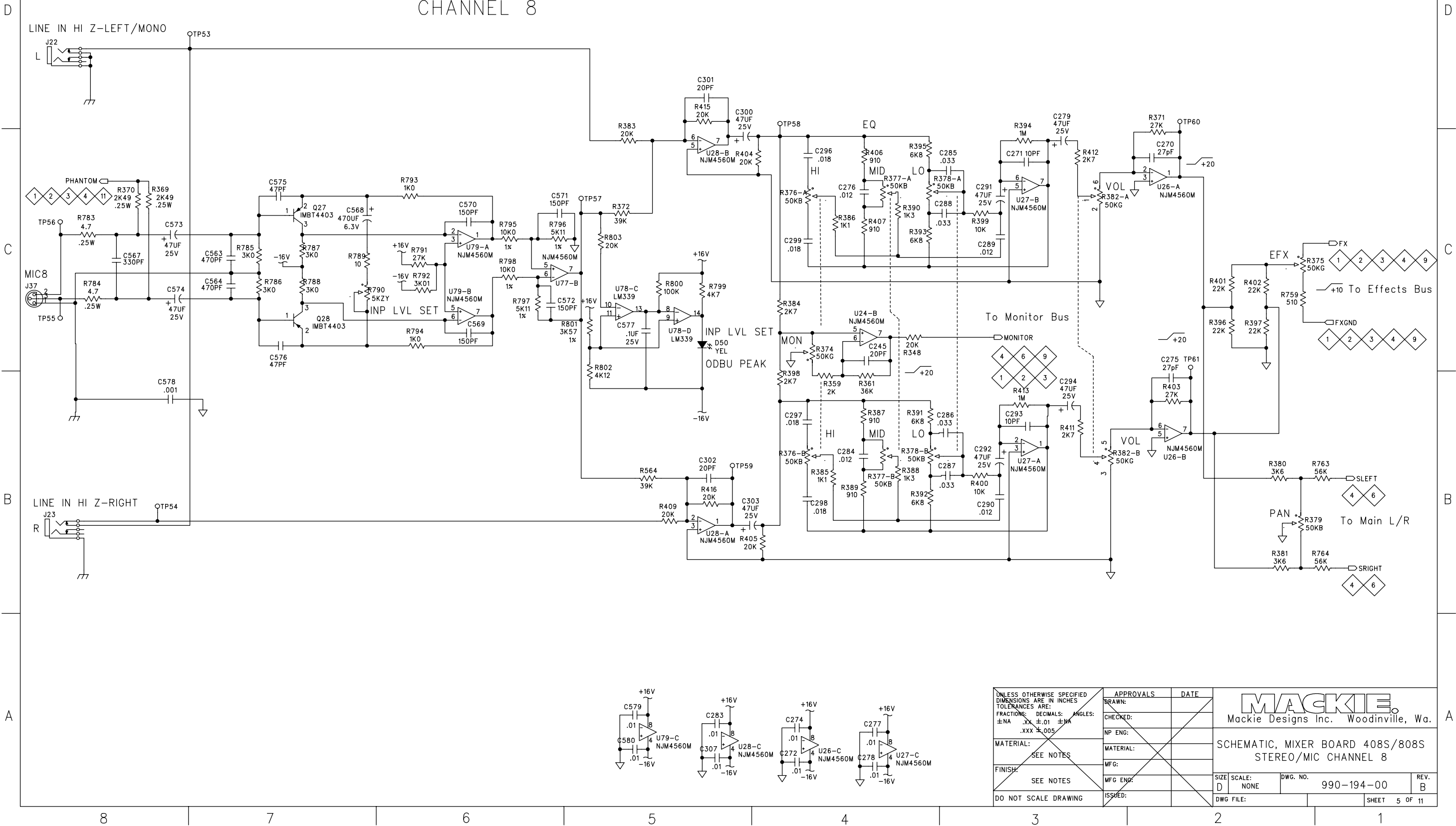
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: DECIMALS: ANGLES: ±.NA .XX ±.01 ±.NA .XXX ±.005	APPROVALS	DATE	MACKIE. Mackie Designs Inc. Woodinville, Wa.
	DRAWN:		
	CHECKED:		
	NP ENG:		
	MATERIAL:		
SEE NOTES	MFG:		SCHEMATIC, MIXER BOARD 408S/808S MIC CHANNELS 5&6
SEE NOTES	MFG ENG:		
DO NOT SCALE DRAWING	ISSUED:		
SIZE SCALE: NONE		DWG. NO. 990-194-00	REV. B
DWG FILE:		SHEET 3 OF 11	

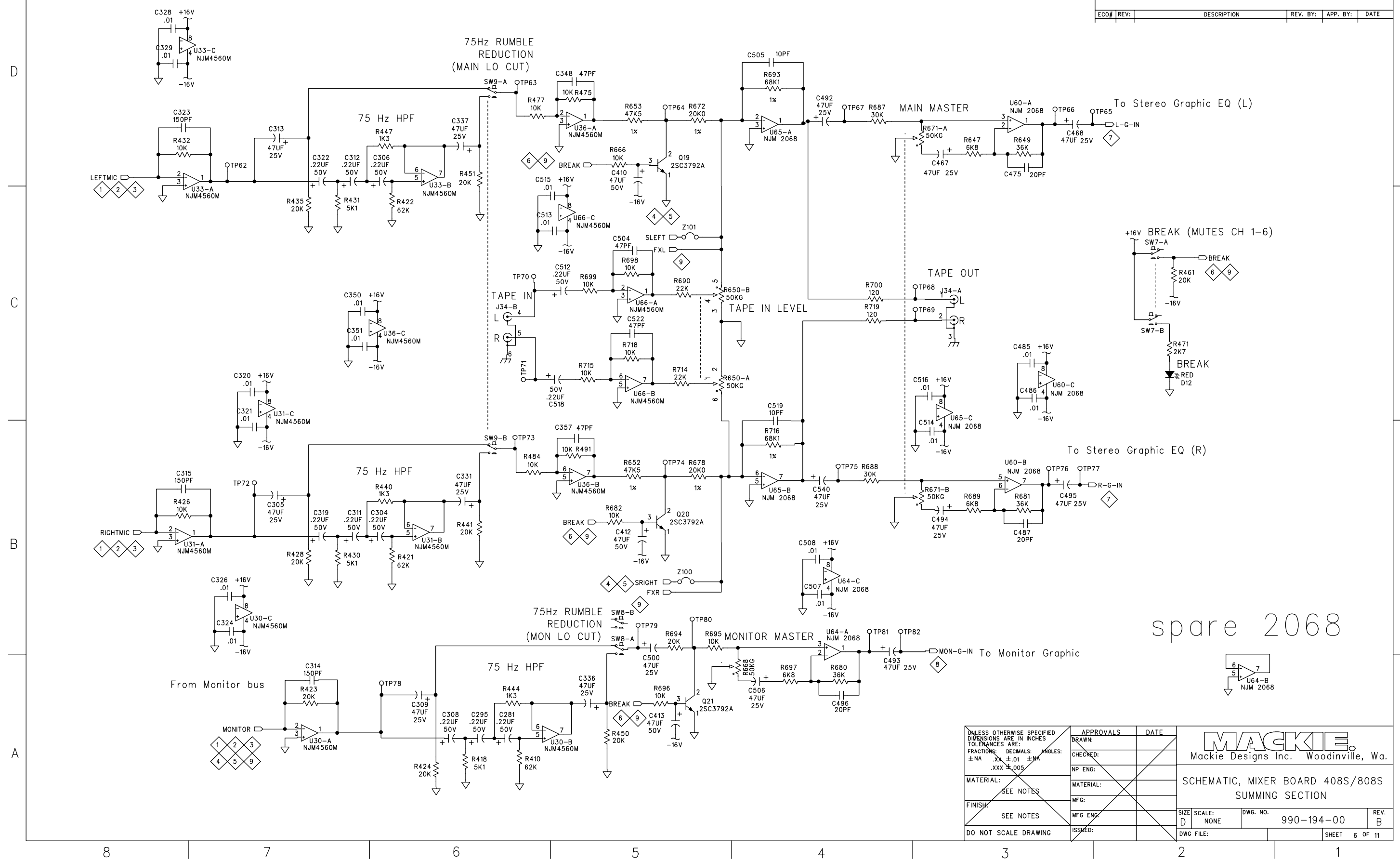
CHANNEL 7



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: DECIMALS: ANGLES: ±NA .XX ±.01 ±NA .XXX ±.005	APPROVALS		DATE	
	DRAWN:			
	CHECKED:			
	NP ENG:			
	MATERIAL:			
SEE NOTES	MATERIAL:		SCHEMATIC, MIXER BOARD 408S/808S	
	MFG:		STEREO/MIC CHANNEL 7	
SEE NOTES	MFG ENG:		SIZE D	SCALE: NONE
	ISSUED:		DWG. NO.	990-194-00
DO NOT SCALE DRAWING			DWG FILE:	REV. B
			SHEET 4 OF 11	

DWG. NO.	990-194-00	SHT	5	REV:	B	1
ECO#	REV:	DESCRIPTION	REV. BY:	APP. BY:	DATE	





UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS: DECIMALS: ANGLES: ±.NA .XX ±.01 ±.NA .XXX ±.005		APPROVALS	DATE
MATERIAL:		CHECKED:	
FINISH:		NP ENG:	
DO NOT SCALE DRAWING		MFG:	
		MFG ENG:	
		ISSUED:	
		SIZE: D	SCALE: NONE
		DWG. NO. 990-194-00	REV. B
		DWG FILE:	SHEET 6 OF 11

MAIN-STEREO/MONO EQUALIZER

D

D

C

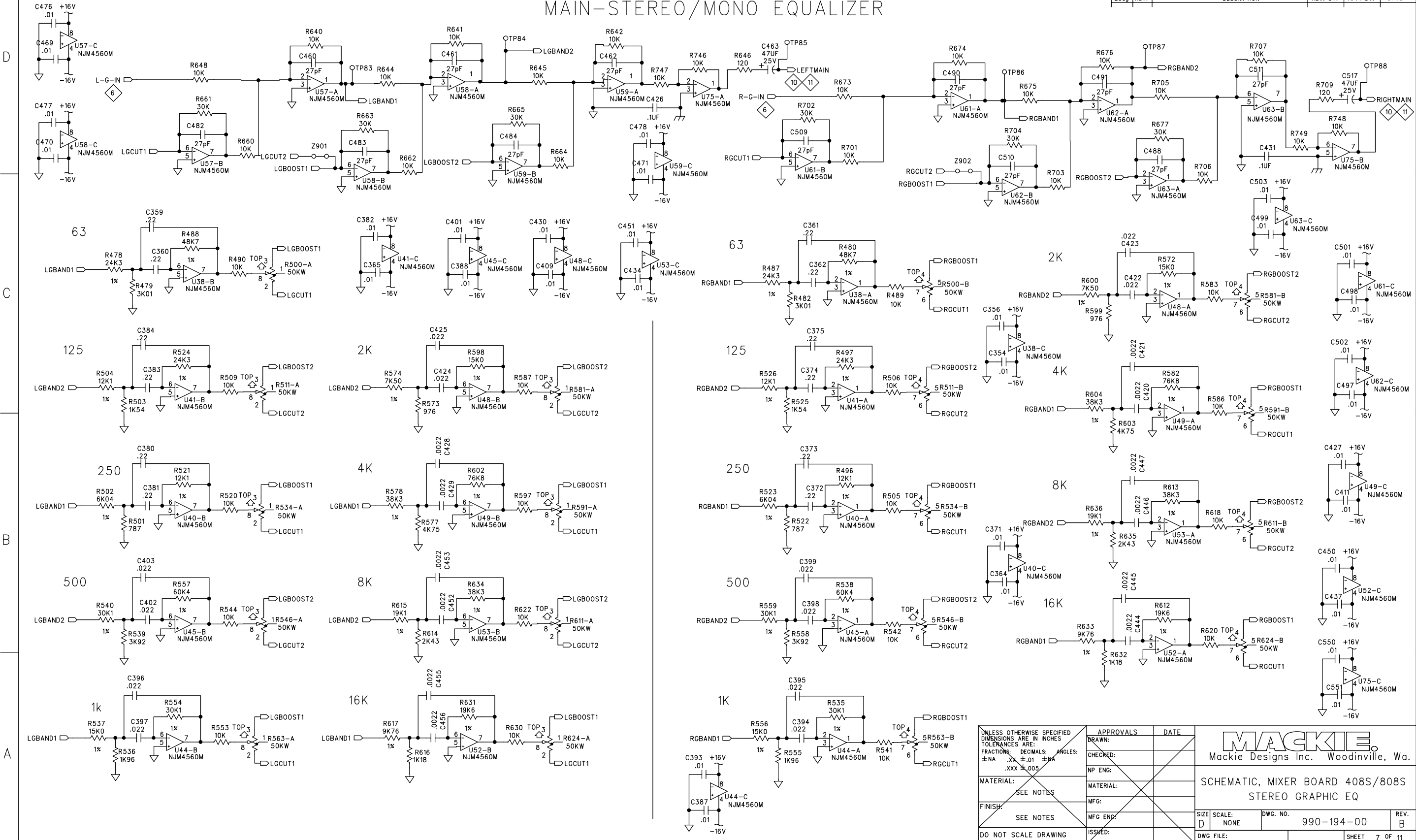
C

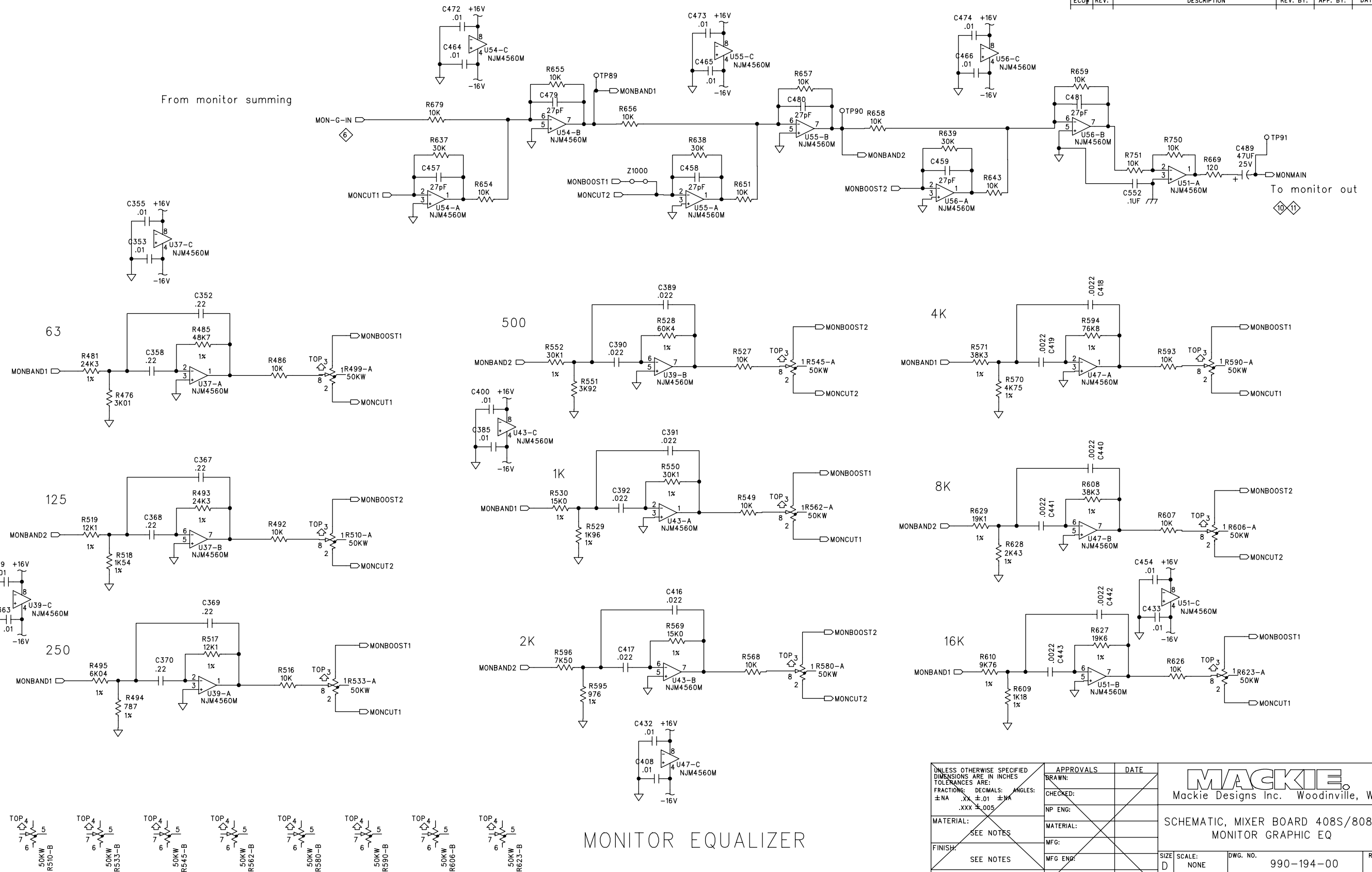
B

B

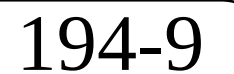
A

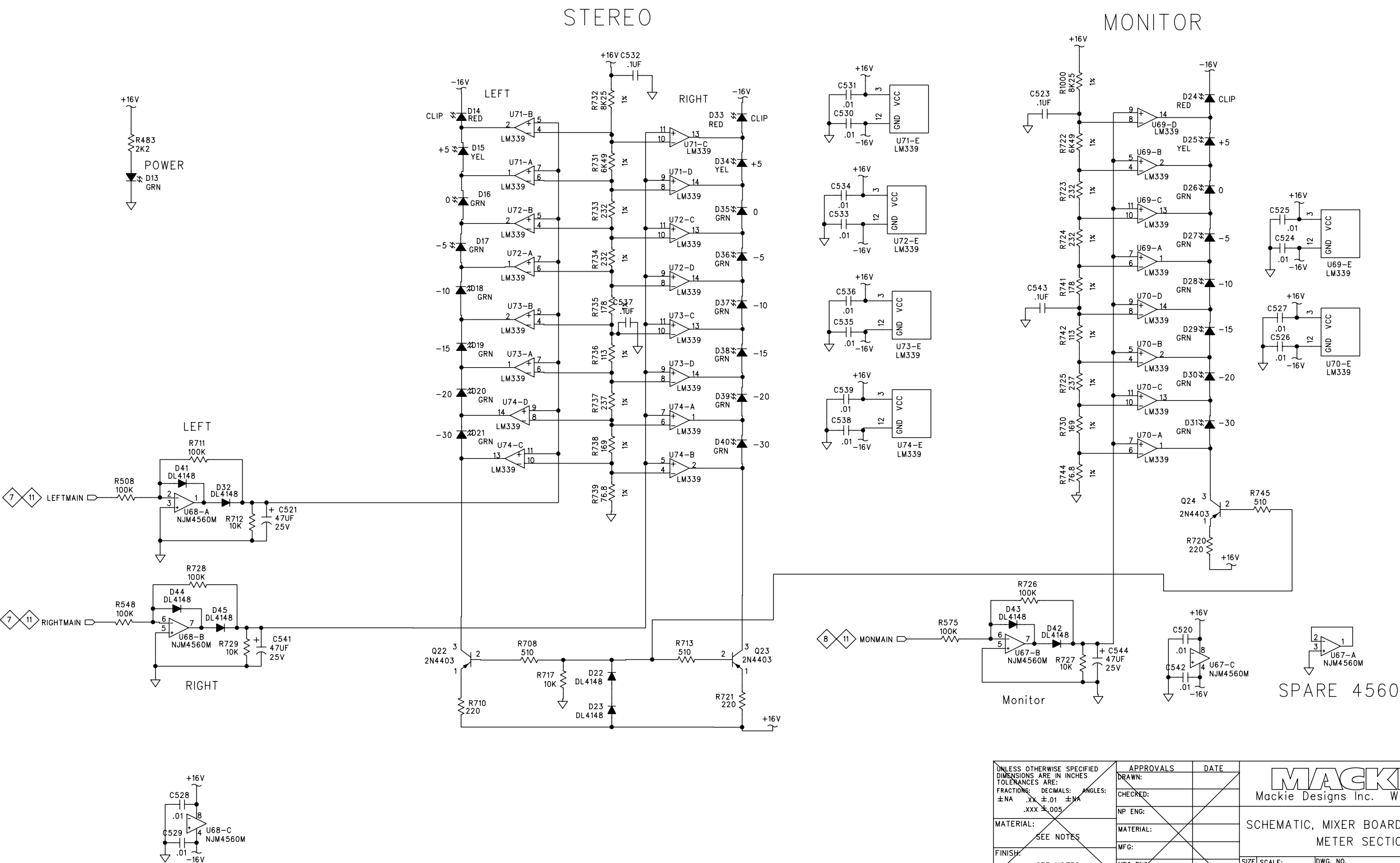
A





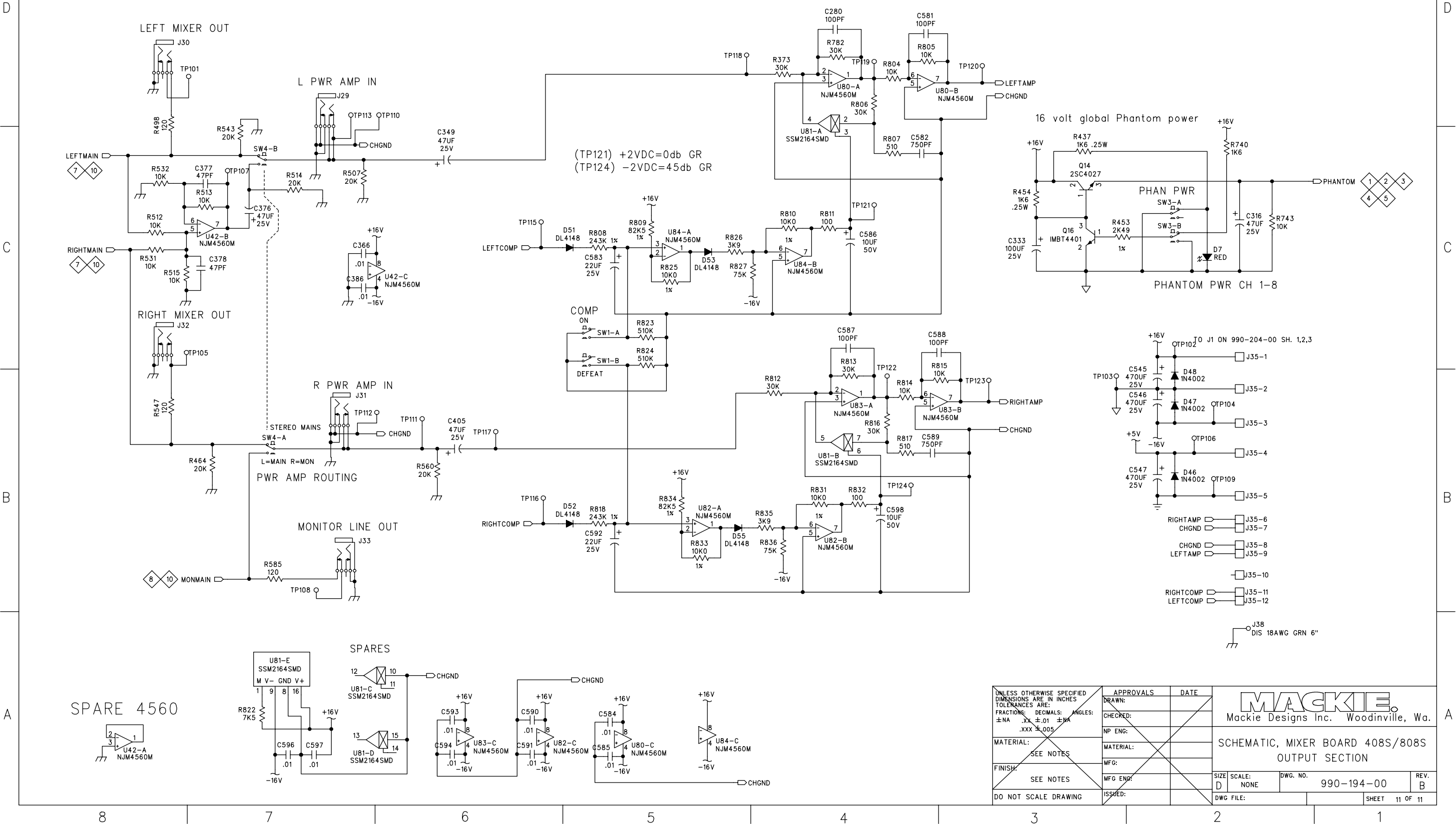
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: DECIMALS: ANGLES: ±.NA .XX ±.01 ±.NA .XXX ±.005 MATERIAL: SEE NOTES FINISH: SEE NOTES DO NOT SCALE DRAWING	APPROVALS DRAWN: CHECKED: NP ENG: MATERIAL: MFG: MFG ENG: ISSUED:	DATE	MACKIE. Mackie Designs Inc. Woodinville, Wa. SCHEMATIC, MIXER BOARD 408S/808S MONITOR GRAPHIC EQ			
			SIZE	SCALE:	DWG. NO.	REV.
			D	NONE	990-194-00	B
			DWG FILE:		SHEET 8 OF 11	

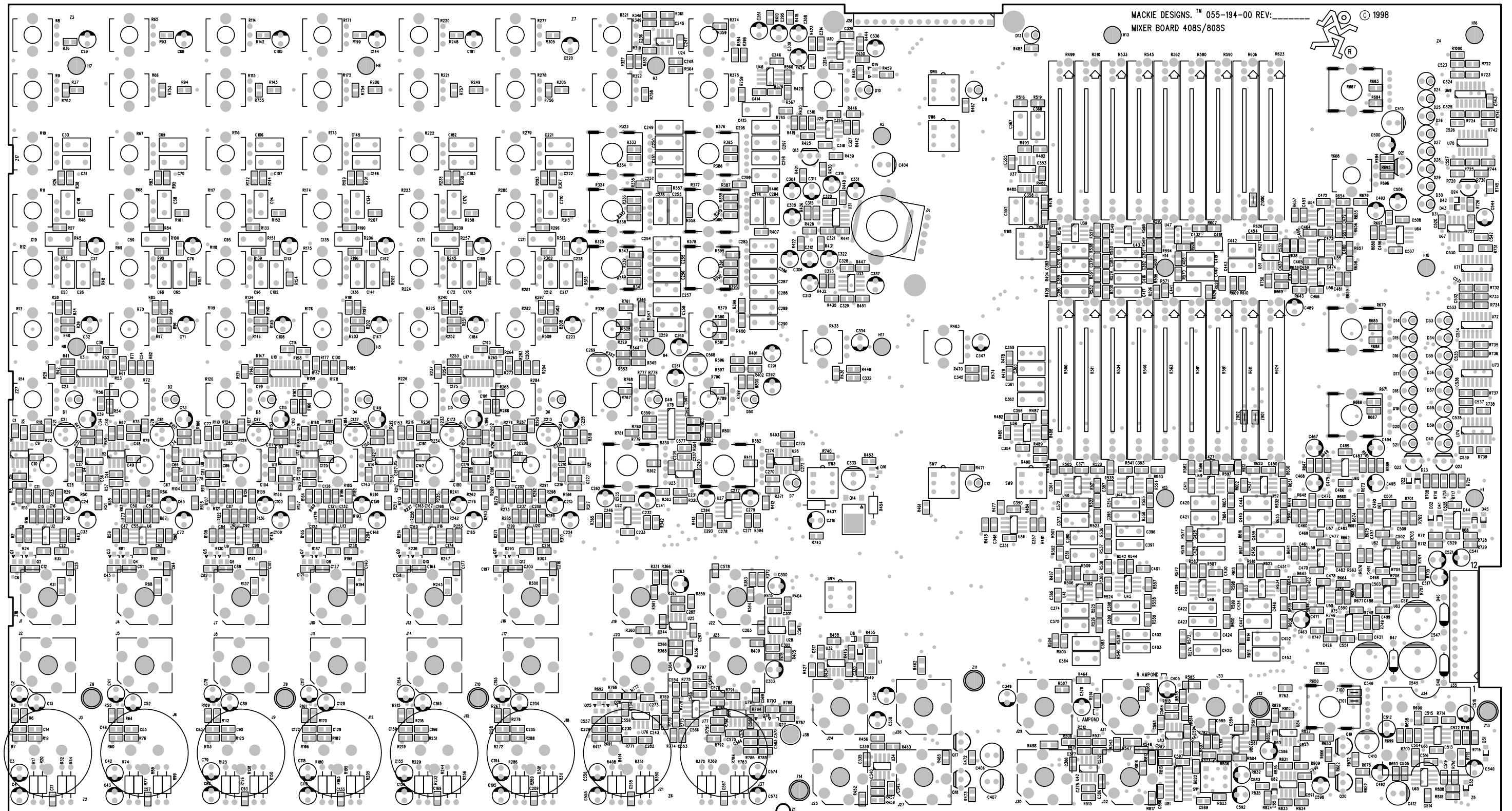


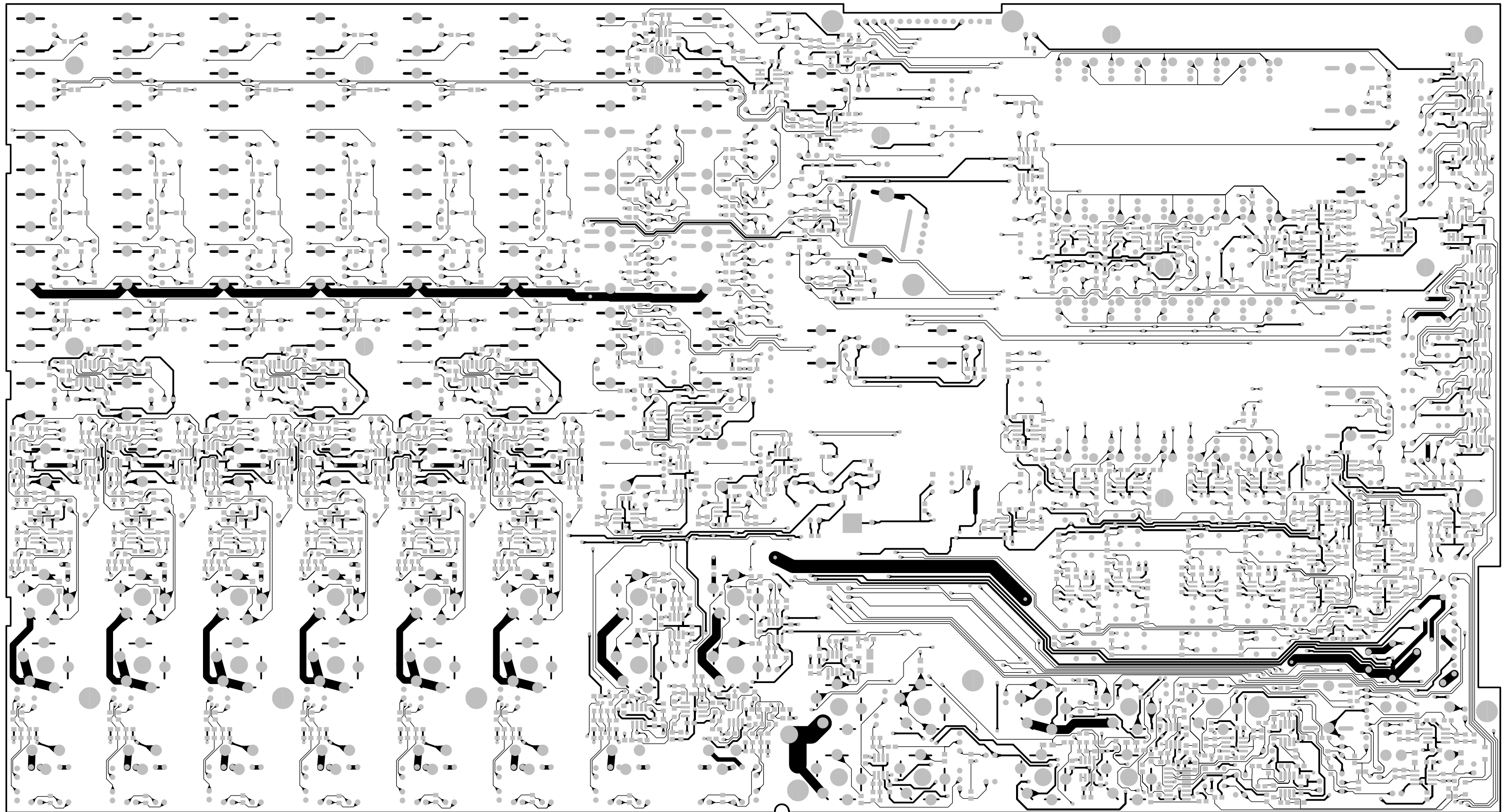


UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: DECIMALS: ANGLES: ±.NA .XX ±.01 ±.NA .XXX ±.005	APPROVALS		DATE				
	DRAWN:						
	CHECKED:						
	NP ENG:						
	MATERIAL:						
MATERIAL:	SEE NOTES						
FINISH:	MFG:						
SEE NOTES	MFG ENG:						
DO NOT SCALE DRAWING	ISSUED:						
			MACKIE.				
			Mackie Designs Inc. Woodinville, Wa.				
			SCHEMATIC, MIXER BOARD 408S/808S METER SECTION				
SIZE D		SCALE: NONE		DWG. NO. 990-194-00		REV. B	
DWG FILE:				SHEET 10 OF 11			

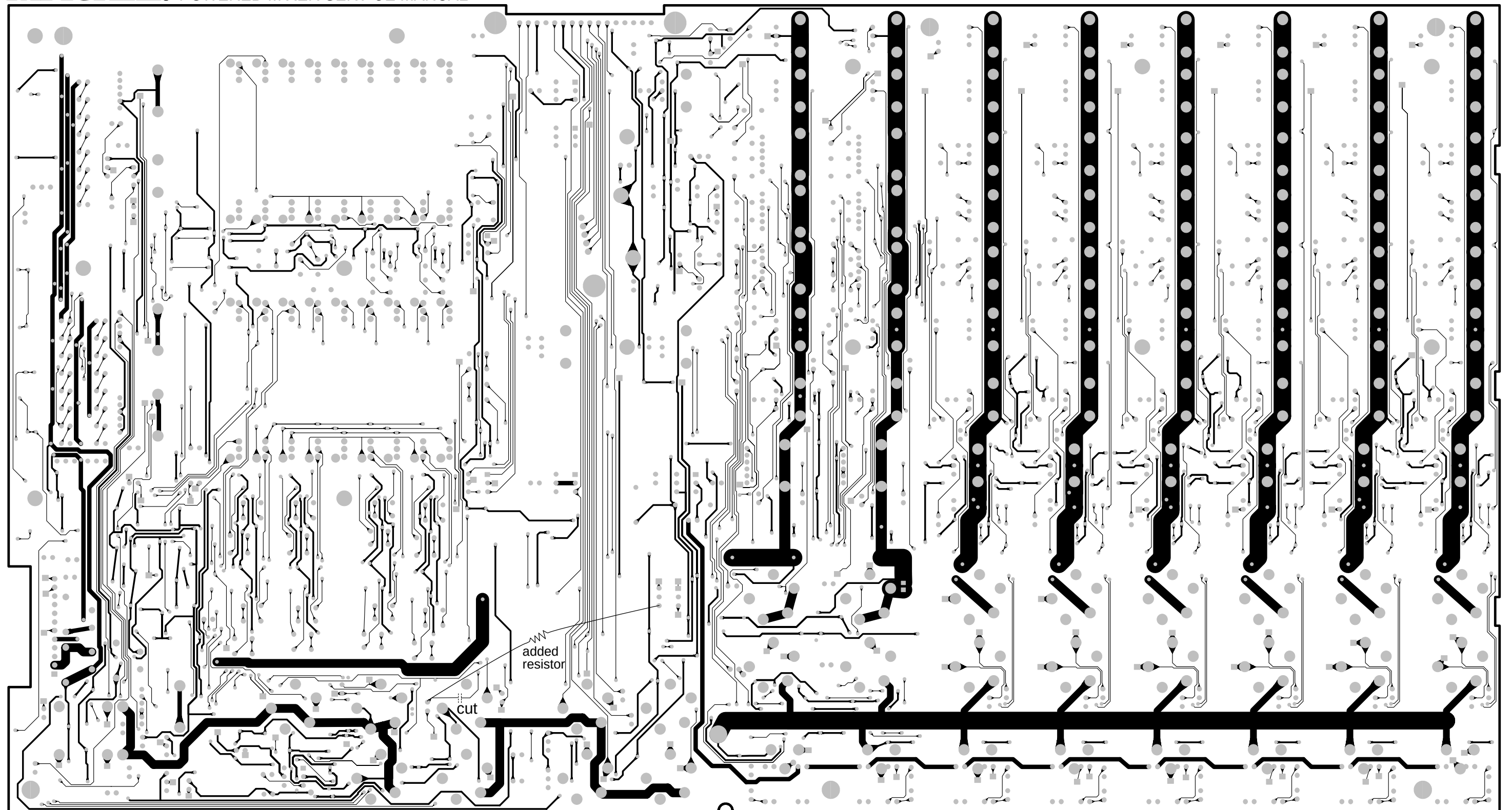
DWG. NO.	990-194-00	SHT	11	REV:	B	1
ECO#	REV:	DESCRIPTION	REV. BY:	APP. BY:	DATE	



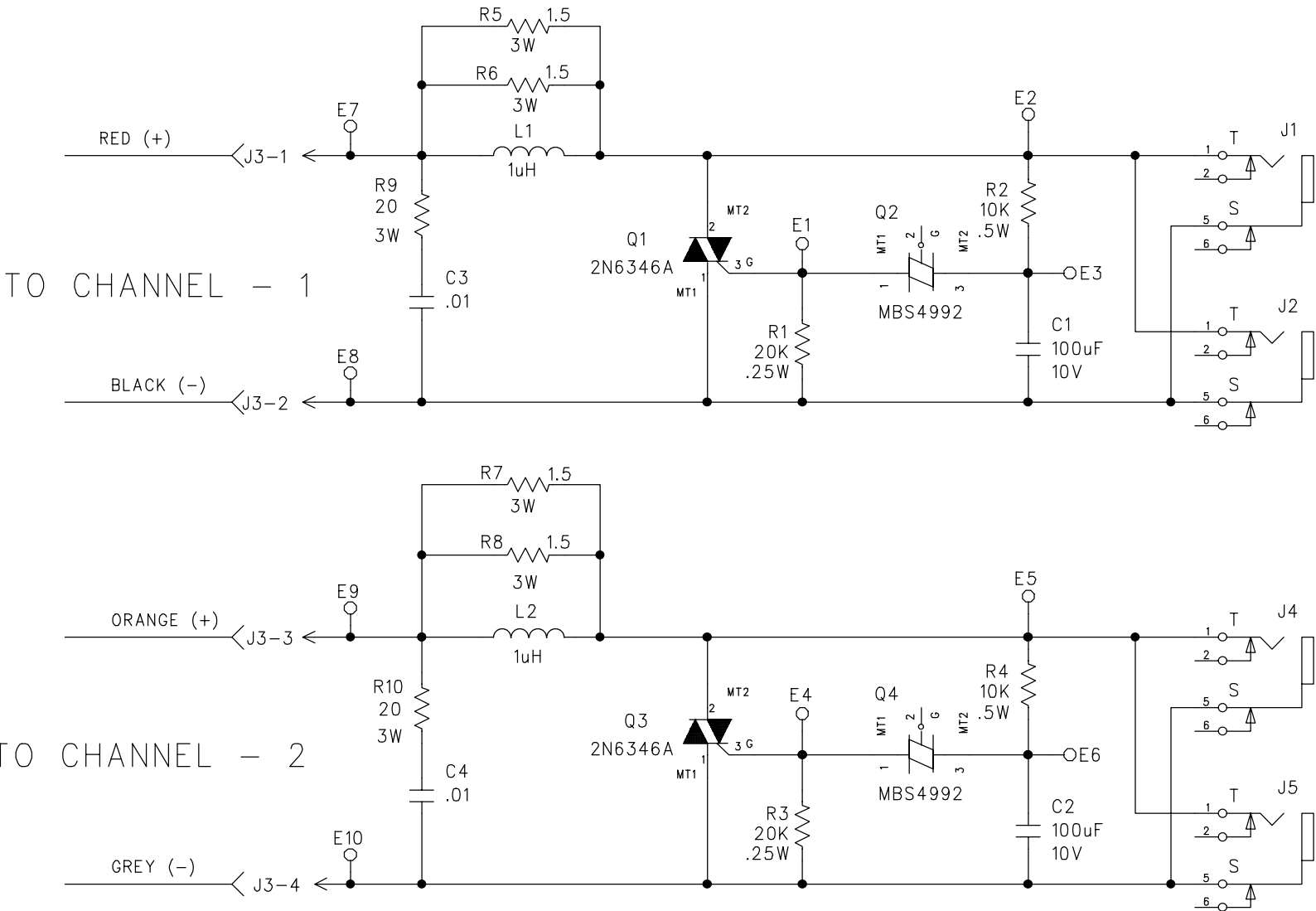




Top of Board (if this has been printed double-sided, and has been lined up correctly, you can shine a light through this page and see the bottom of the board's traces and pads. Sometimes this works, sometimes not.)



DWG. NO.	990-224-00	SHT	1	REV:	A	1	
ECO#	REV:	DESCRIPTION			REV. BY:	APP. BY:	DATE
	A	RELEASED TO PRODUCTION			TH		11-19-98

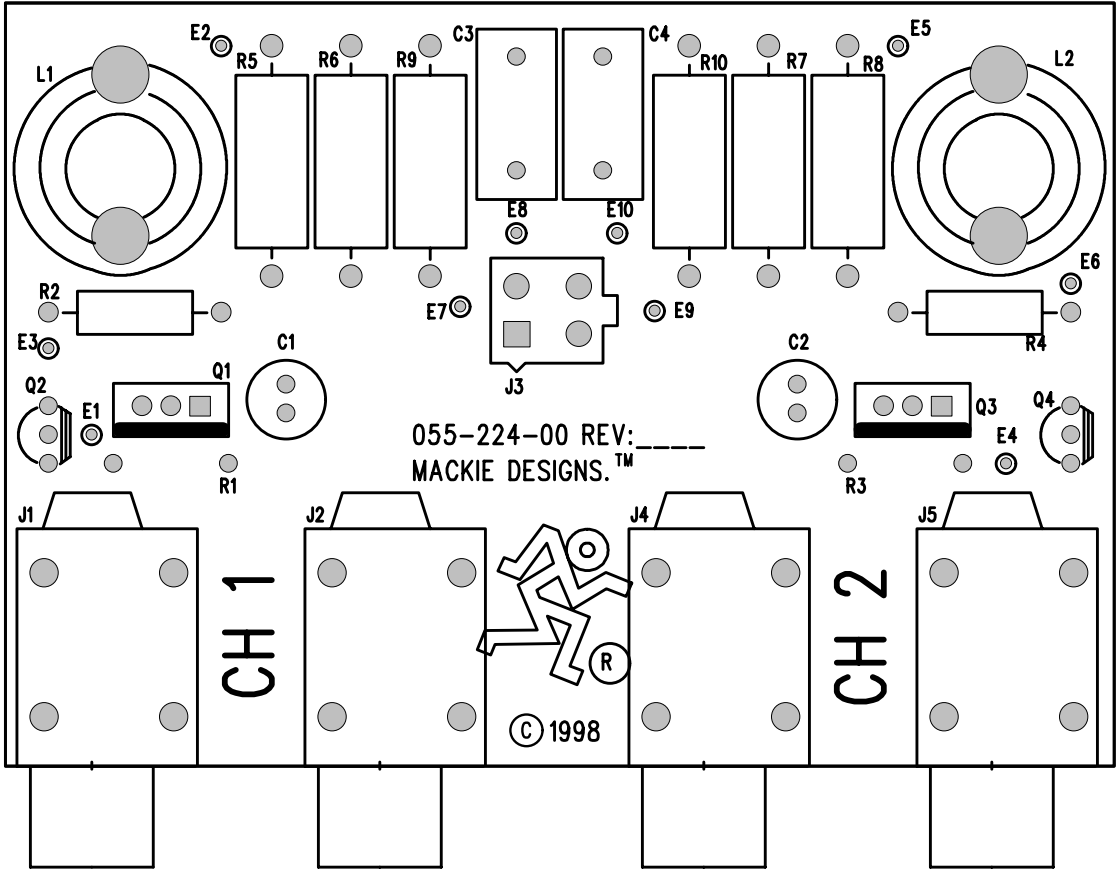
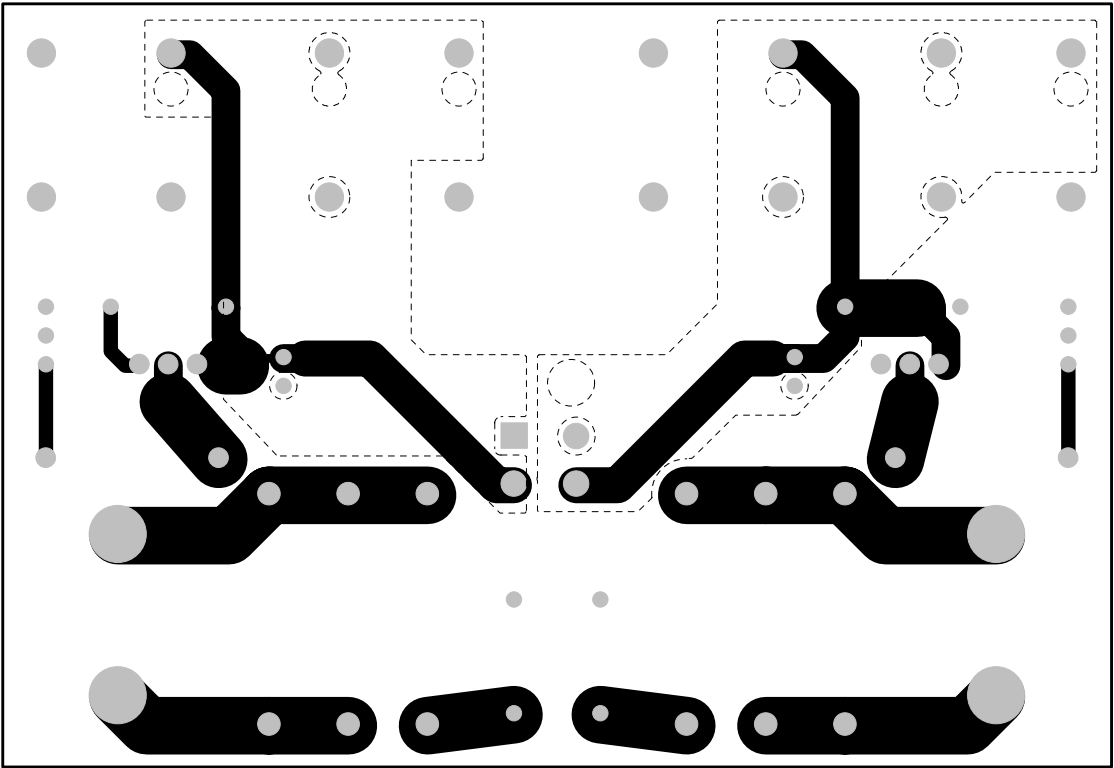


450-224-00
POWERED MIXER JACK BOARD

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: DECIMALS: ANGLES: ±.NA .XX ±.01 ±.NA .XXX ±.005	APPROVALS DRAWN: wgw CHECKED: NP ENG: MATERIAL: MFG: MFG ENG: ISSUED:	DATE 7-16-98
SEE NOTES	SEE NOTES	
DO NOT SCALE DRAWING		

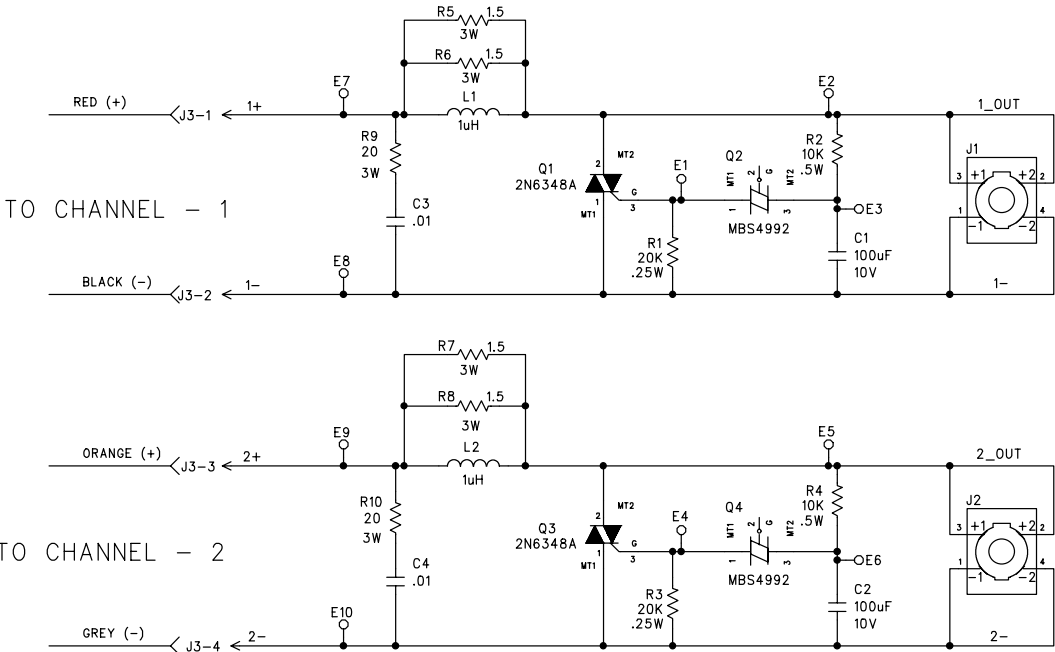
MACKIE.		Mackie Designs Inc. Woodinville, Wa.	
SCHEMATIC, POWERED MIXER JACK			
SIZE D	SCALE: NONE	DWG. NO. 990-224-00	REV. A
DWG FILE:		SHEET 1 OF 1	

Bottom of board



Top of board

DWG. NO.	990-263-00	SHT	1	REV:	A	1	
ECO#	REV:	DESCRIPTION			REV. BY:	APP. BY:	DATE

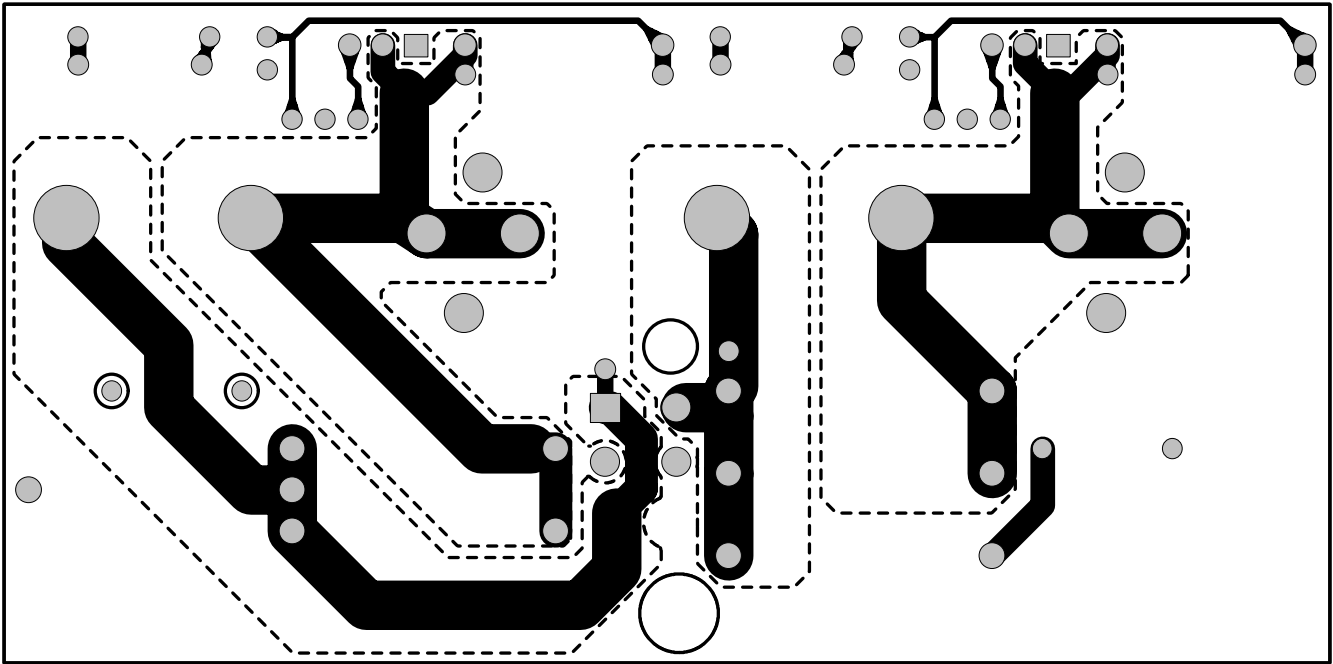
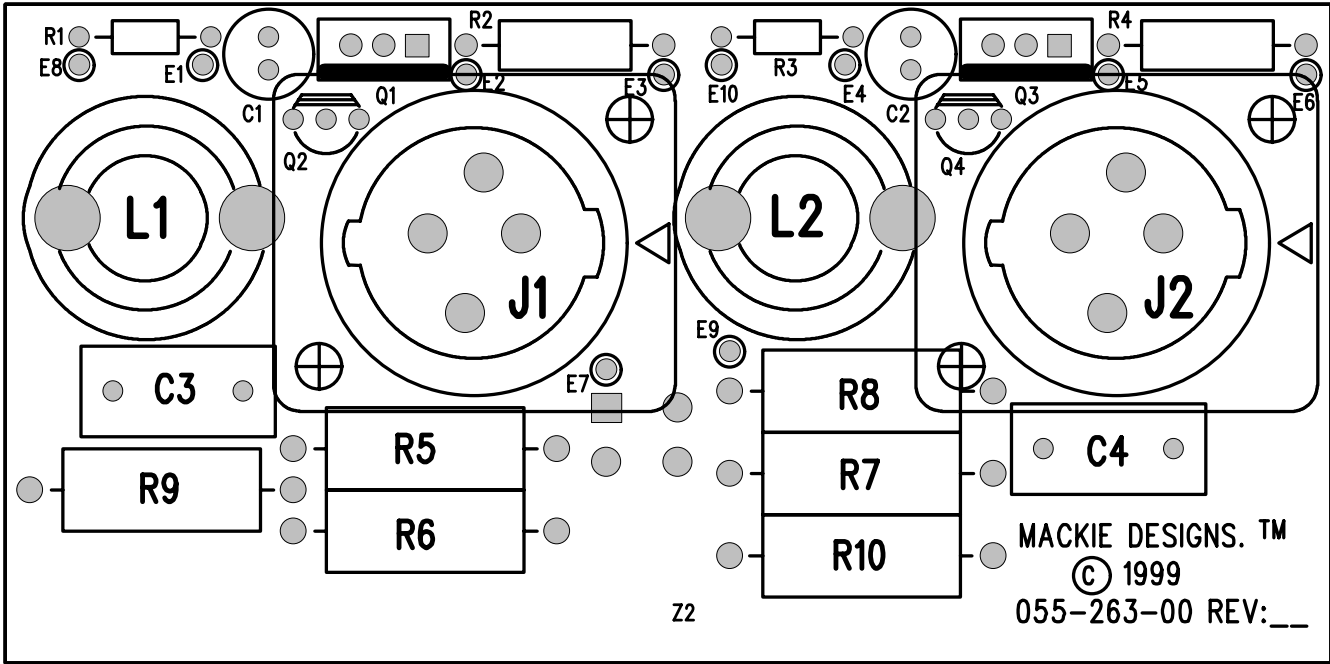
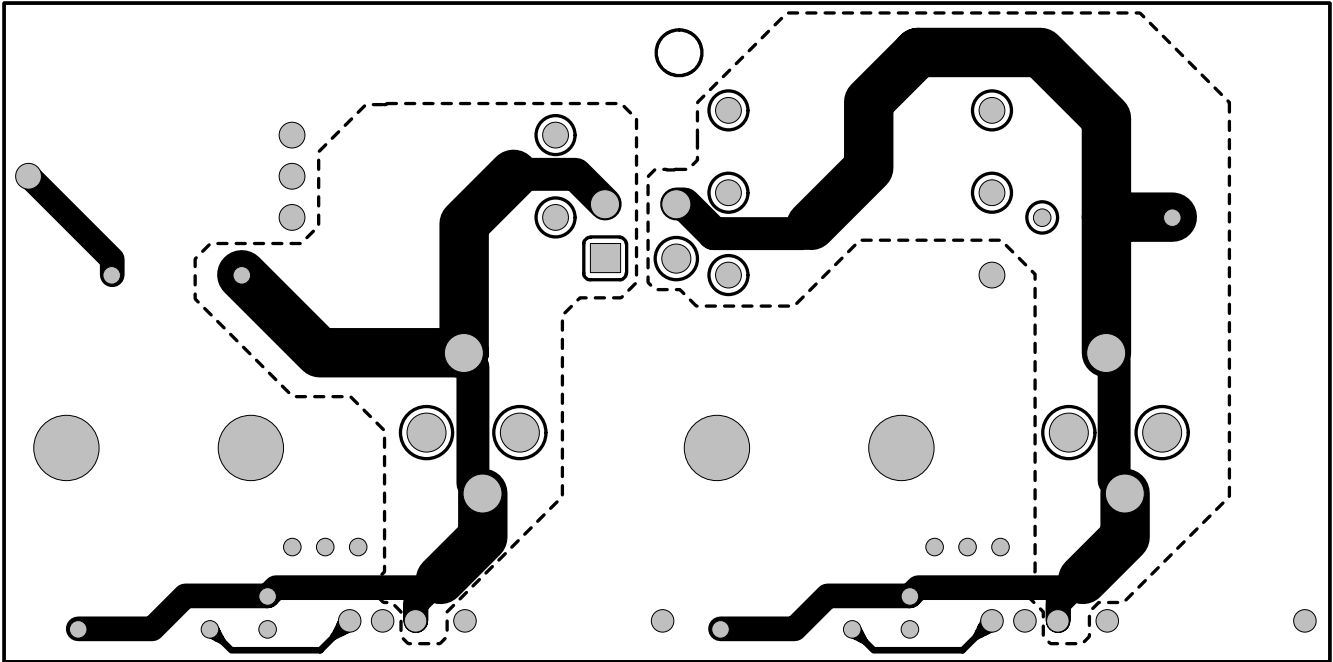


230V and 100V powered mixers use this circuit board because they have Speakon® connectors. 120V models use 1/4" outputs and so use the 224a circuit board.

450-263-00
PCB, SPEAKON JACK BOARD

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: DECIMALS: ANGLES: ±NA .XX ±.01 ±NA .XXX ±.005	APPROVALS	DATE	MACKIE. Mackie Designs Inc. Woodinville, Wa. SCHEMATIC, POWERED MIXER SPEAKON JACK BOARD SIZE: D SCALE: NONE DWG. NO. 990-263-00 REV. A DWG FILE: SHEET 1 OF 1		
	DRAWN: KR	4-13-99			
	CHECKED:				
	NP ENG:				
	MATERIAL:				
MATERIAL:	SEE NOTES				
FINISH:	SEE NOTES				
DO NOT SCALE DRAWING	ISSUED:				

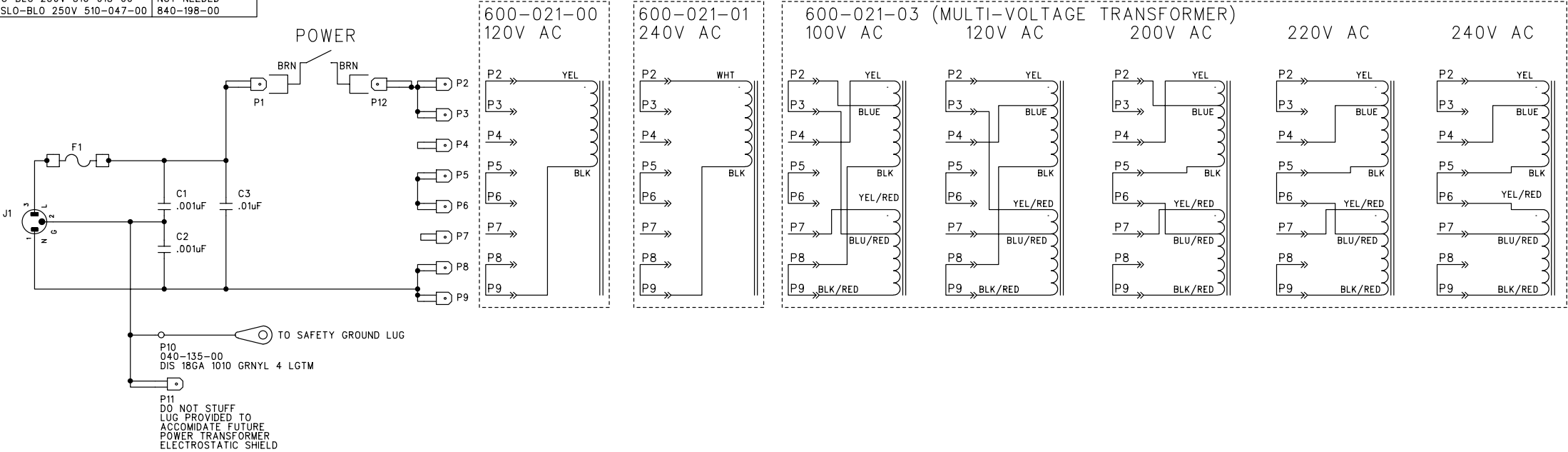
Bottom of board



Top of board

DWG. NO.	990-252-00	SHT	1	REV:	A	1	
ECO#	REV:	DESCRIPTION			REV. BY:	APP. BY:	DATE
	A	RELEASE TO PRODUCTION			TH		1-6-99

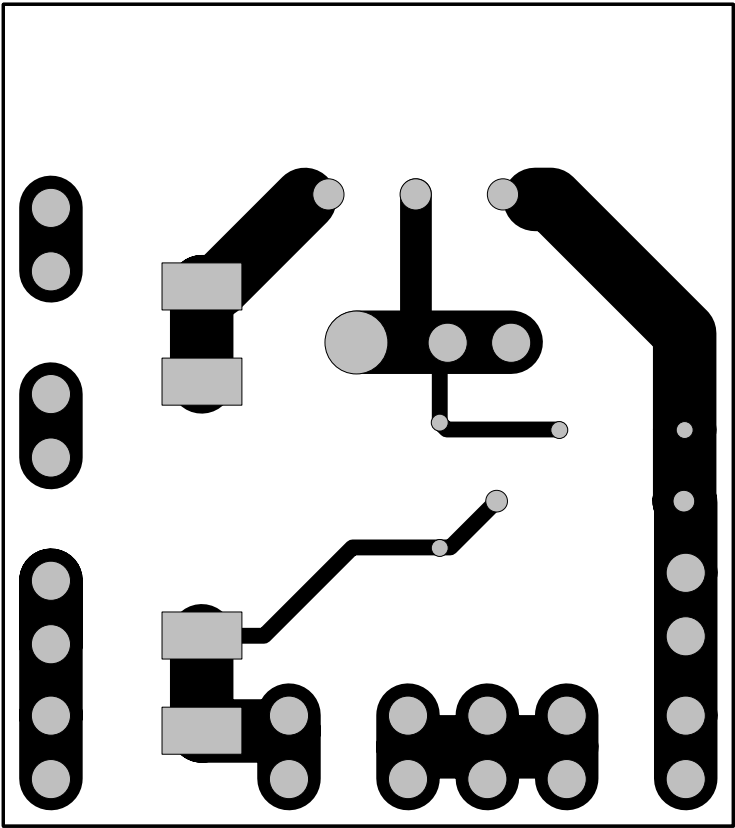
VERSION	FUSE USED (F1)	FUSE VALUE LABEL
PM-808 100VAC	15A SLO-BLO 250V 510-018-00	NOT NEEDED
PM-808 120VAC	15A SLO-BLO 250V 510-018-00	NOT NEEDED
PM-808 240VAC	6.25A SLO-BLO 250V 510-047-00	840-198-00



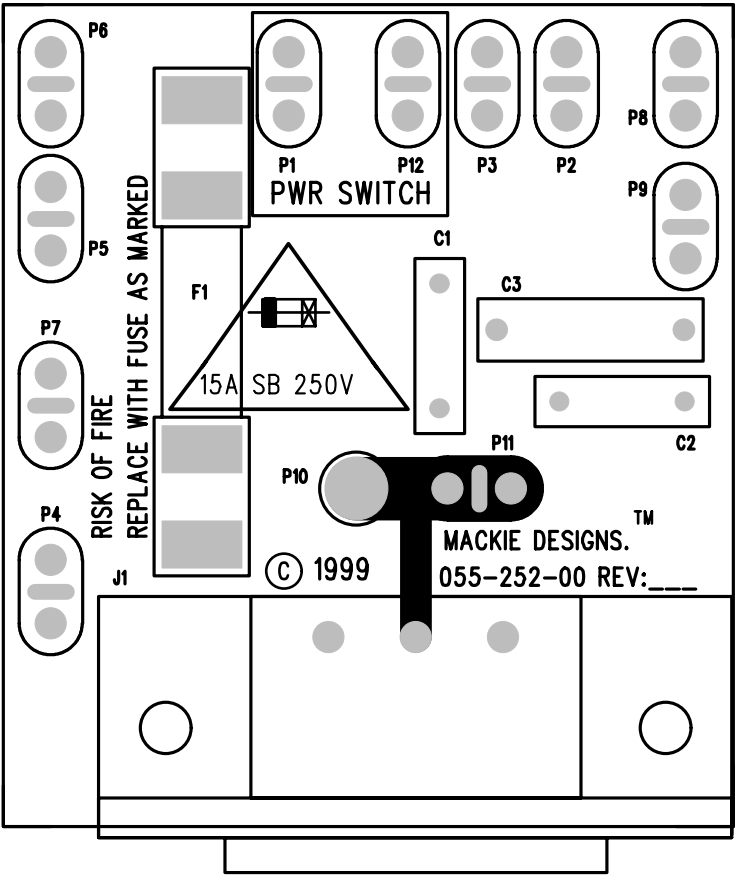
- 400-129-00 FUSE CLIP 0.25 DIA PC MNT
- 450-252-00 PCB AC INPUT 800W PM

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: DECIMALS: ANGLES: ±NA .XX ±.01 ±NA .XXX ±.005	APPROVALS	DATE
	DRAWN: wgw	7-20-98
	CHECKED:	
	NP ENG:	
	MATERIAL:	
MATERIAL:	MATERIAL:	
FINISH:	MFG:	
DO NOT SCALE DRAWING	MFG ENG:	
	ISSUED:	

			
Mackie Designs Inc. Woodinville, Wa.			
SCHEMATIC 800W POWERED MIXER AC POWER INPUT			
SIZE	SCALE:	DWG. NO.	REV.
D	NONE	990-252-00	A
DWG FILE:		SHEET 1 OF 1	



Bottom of board



Top of board

This is used on the 808S and the 808M powered mixers. The other mixers use the 225 board.