

STUDIO 1, SELECTOR, MONITOR OUTPUT

DIM and MUTING STUDIO 1 MONITOR

REVISIONS			
REV	ECO #	DESCRIPTION	DATE
A		INITIAL RELEASE	28SEP2001
B	4703A	Changed P/N of U44, Changed description of U45	15OCT2001
C	4727	ADD RESISTOR NETWORK #210	21DEC2001

From Pg. 1 D/A

From Mother Board Connector Pg. 6 Zone A4

NOTE : ALL 4053 CONTROL SIGNALS FROM XILINX, Pg. 6

APPROVALS		DATE	
Larry Stanton			

HARRIS CORPORATION BROADCAST SYSTEMS DIVISION

STUDIO MONITOR BOARD
BMX DIGITAL

92-1158-1

2-4-2002_14:02

7

STUDIO 1, HOST, COHOST, GUEST

1

2

3

4

1

2

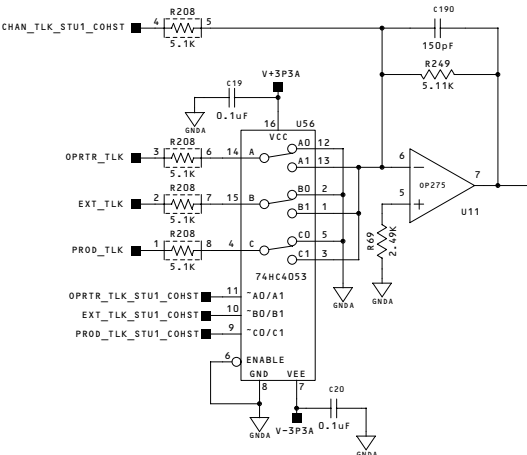
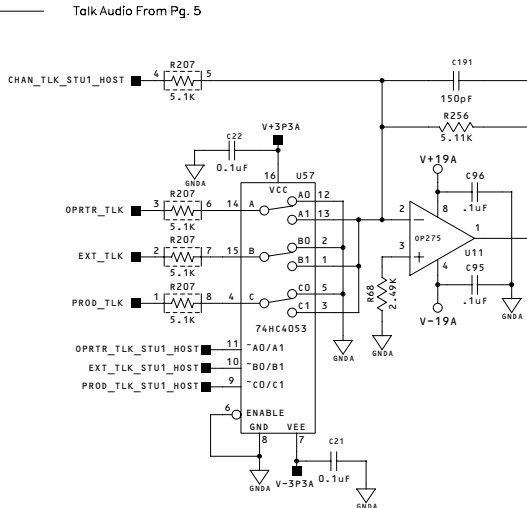
3

4

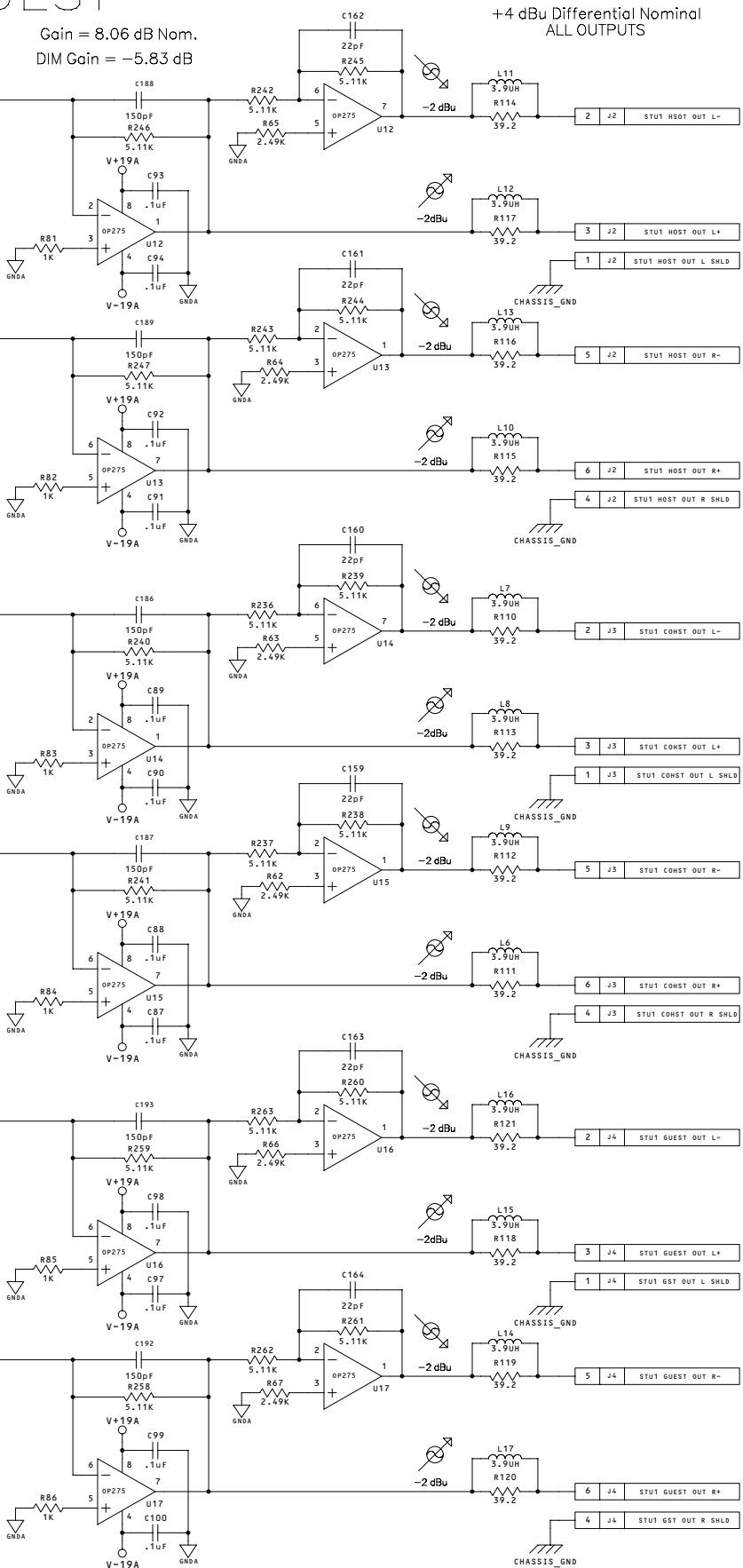
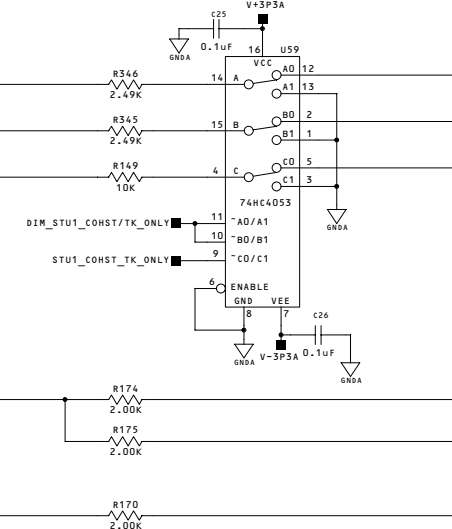
10K $\frac{1}{2.49K} = 2.00K$
DIM = 14 dB
From Pg. 1, Zone C2

Gain = 8.06 dB Nom.
DIM Gain = -5.83 dB

+4 dBu Differential Nominal
ALL OUTPUTS



DIM_STU1_COHOST/TK_ONLY	STU1_COHOST_TK_ONLY	STU1_COHOST_SELECTOR
H	L	STEREO
H	H	STEREO DIMMED
L	H	TALK ONLY
L	L	NOT ALLOWED



NOTE : ALL 4053 CONTROL SIGNALS FROM XILINX, Pg. 6

STUDIO 2, SELECTOR, MONITOR OUTPUT

Second Order Low Pass
GAIN = +8 dB

STUDIO2 SELECTION

DIM and MUTING STUDIO 1 MONITOR

+4 dBu Differential Nominal
ALL OUTPUTS

NOTE : ALL 4053 CONTROL SIGNALS FROM XILINX, Pg. 6

STUDIO 2, HOST, COHOST, GUEST

1

2

3

4

1

2

3

4

From Pg. 3, C2

Talk Audio From Pg. 5

$10K \parallel 2.49K = 2.00K$
DIM = 14 dB

+4 dBu Differential Nominal
ALL OUTPUTS

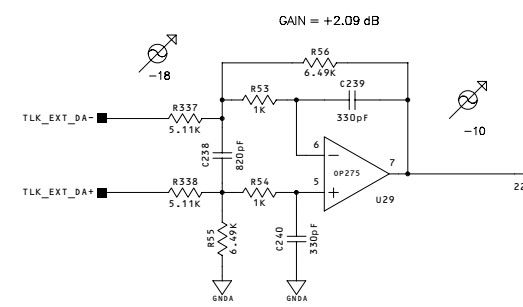
DIM_STU2_COHST/TK_ONLY	STU2_COHST_TK_ONLY	STU2_COHST
H	L	SELECTOR STEREO
H	H	SELECTOR STEREO DIMMED
L	H	RECEIVES TALK ONLY
L	L	NOT ALLOWED

To Connector
Board
Pg. 7, C1,2

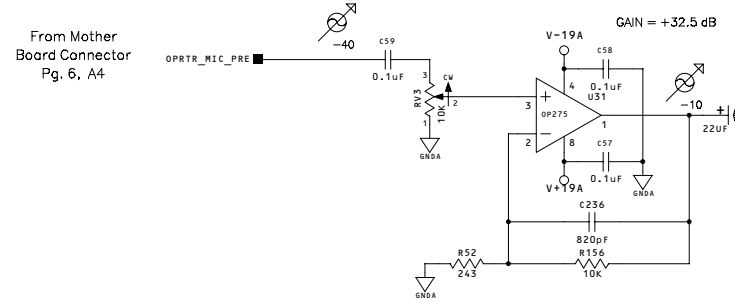
NOTE : ALL 4053 CONTROL SIGNALS FROM XILINX, Pg. 6

TALK GENERATION

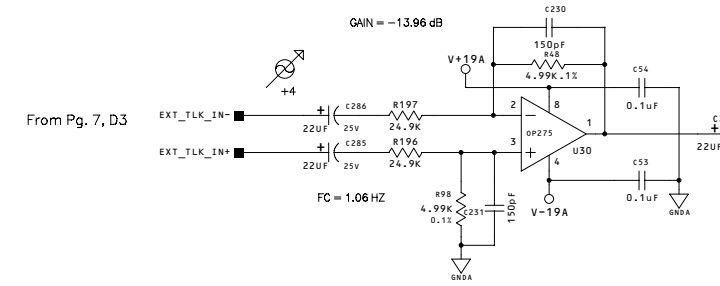
1



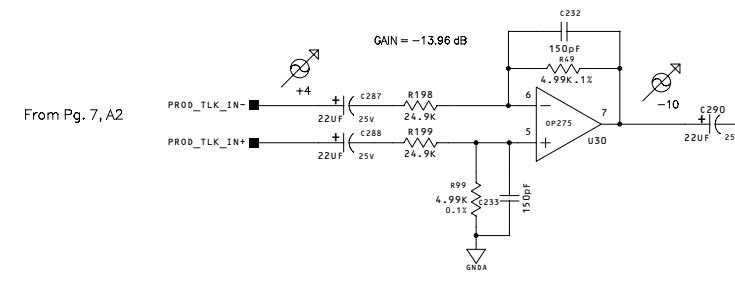
2



3

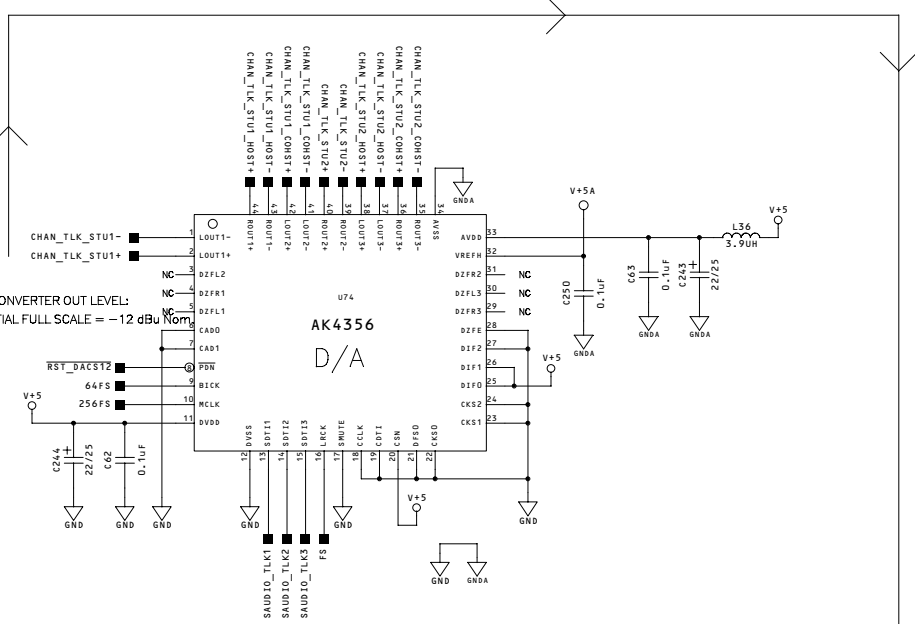


4

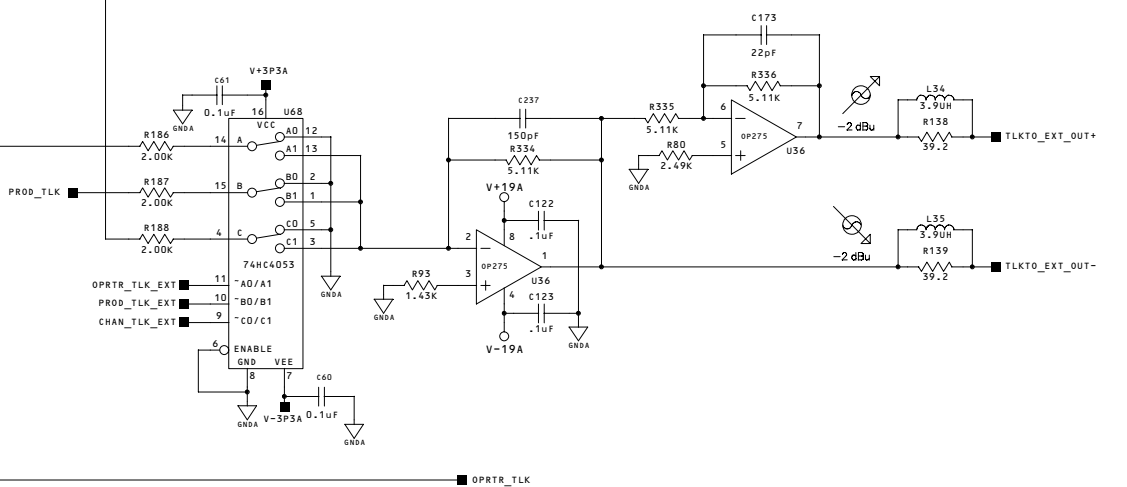


B

D/A CONVERTER OUT LEVEL:
5.5 VPP DIFFERENTIAL FULL SCALE = -12 dBu Nom



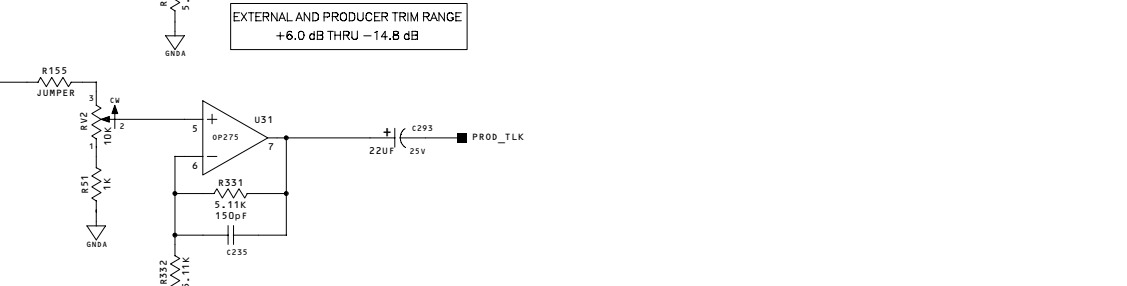
B



B

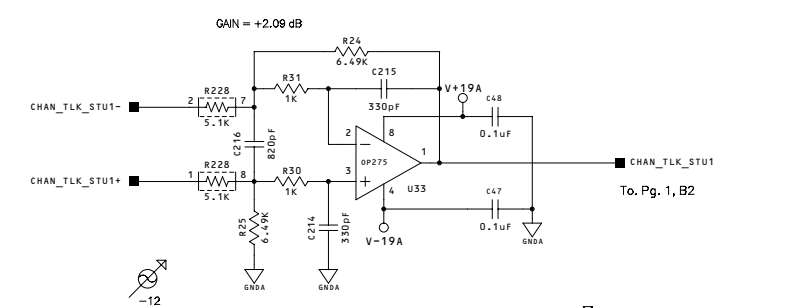


B

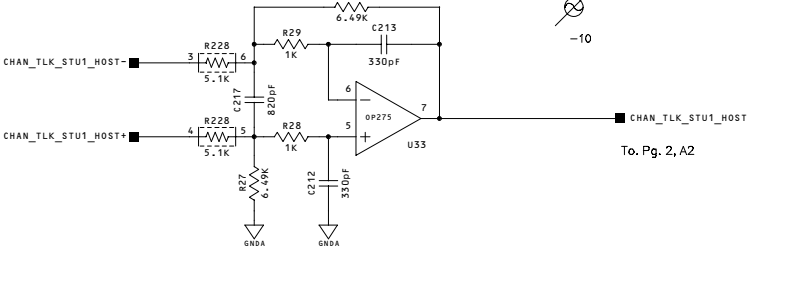


NOTE : ALL 4053 CONTROL SIGNALS FROM XILINX, Pg. 6

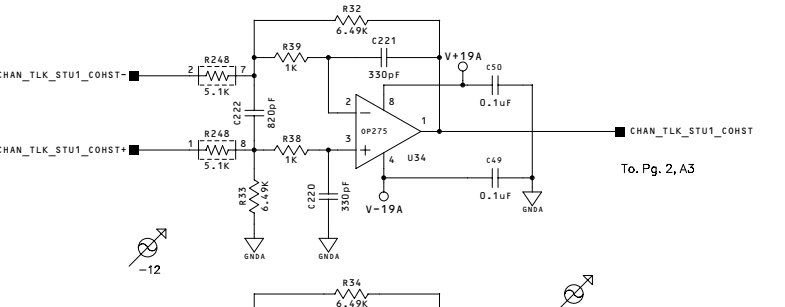
C



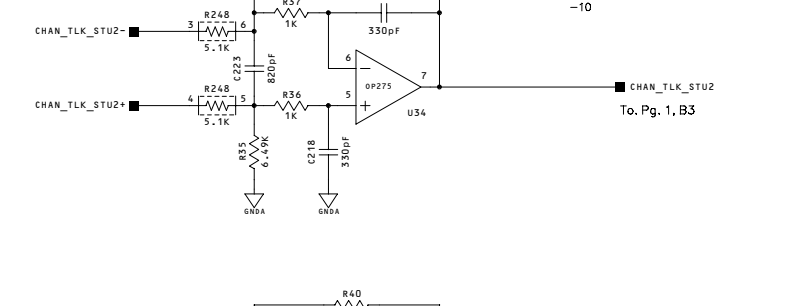
C



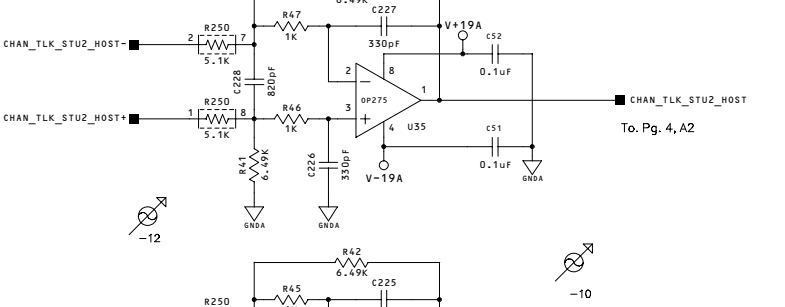
C



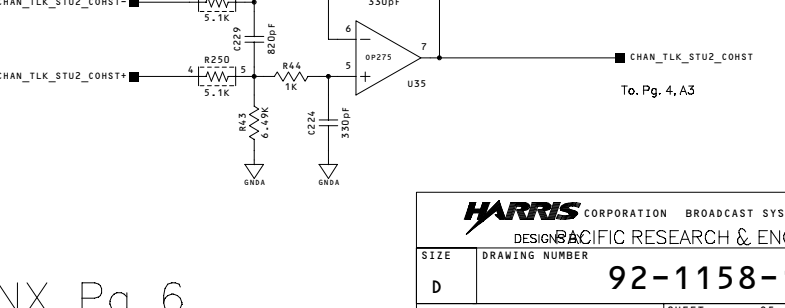
C



C



C



A

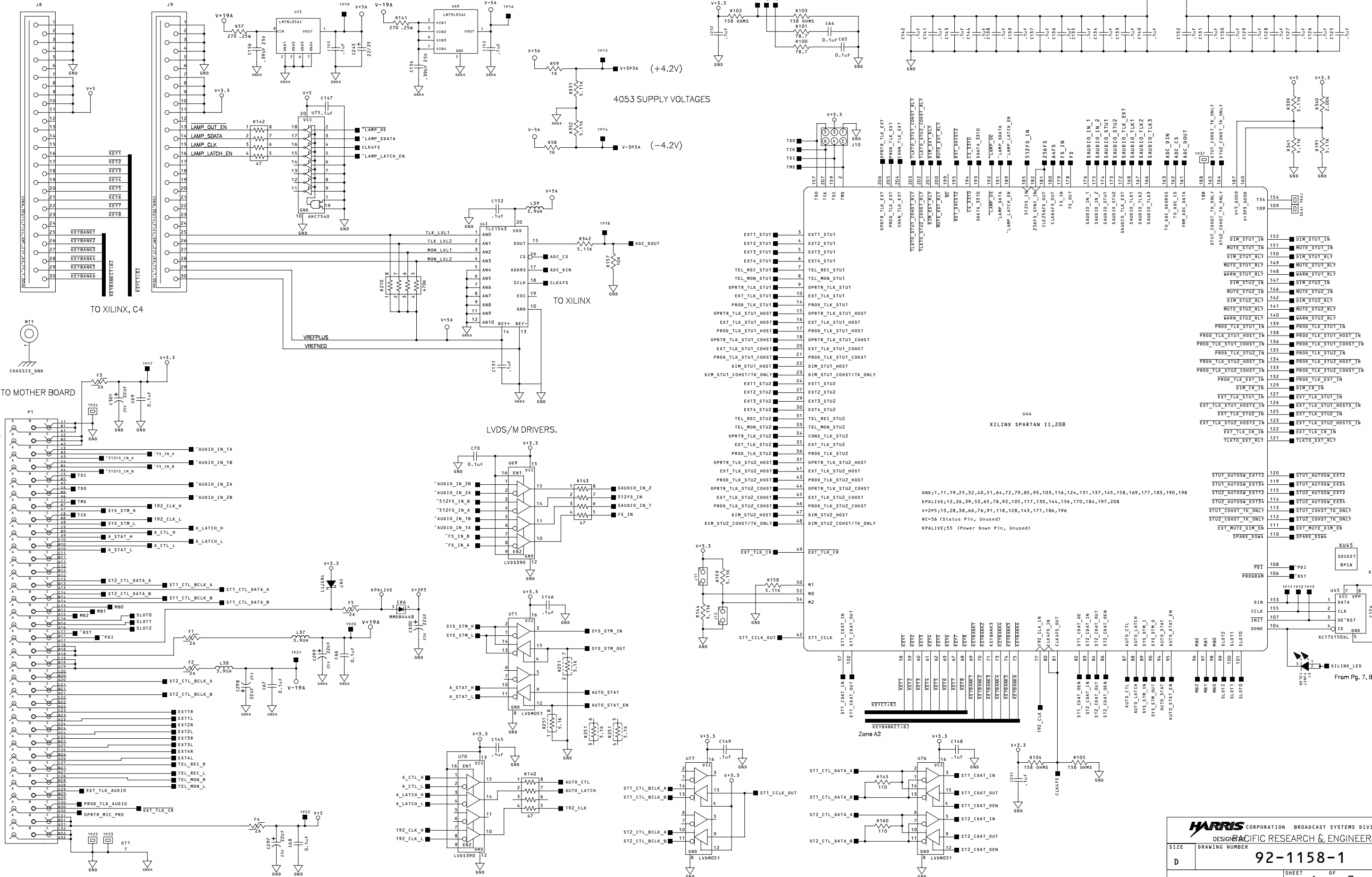
B

C

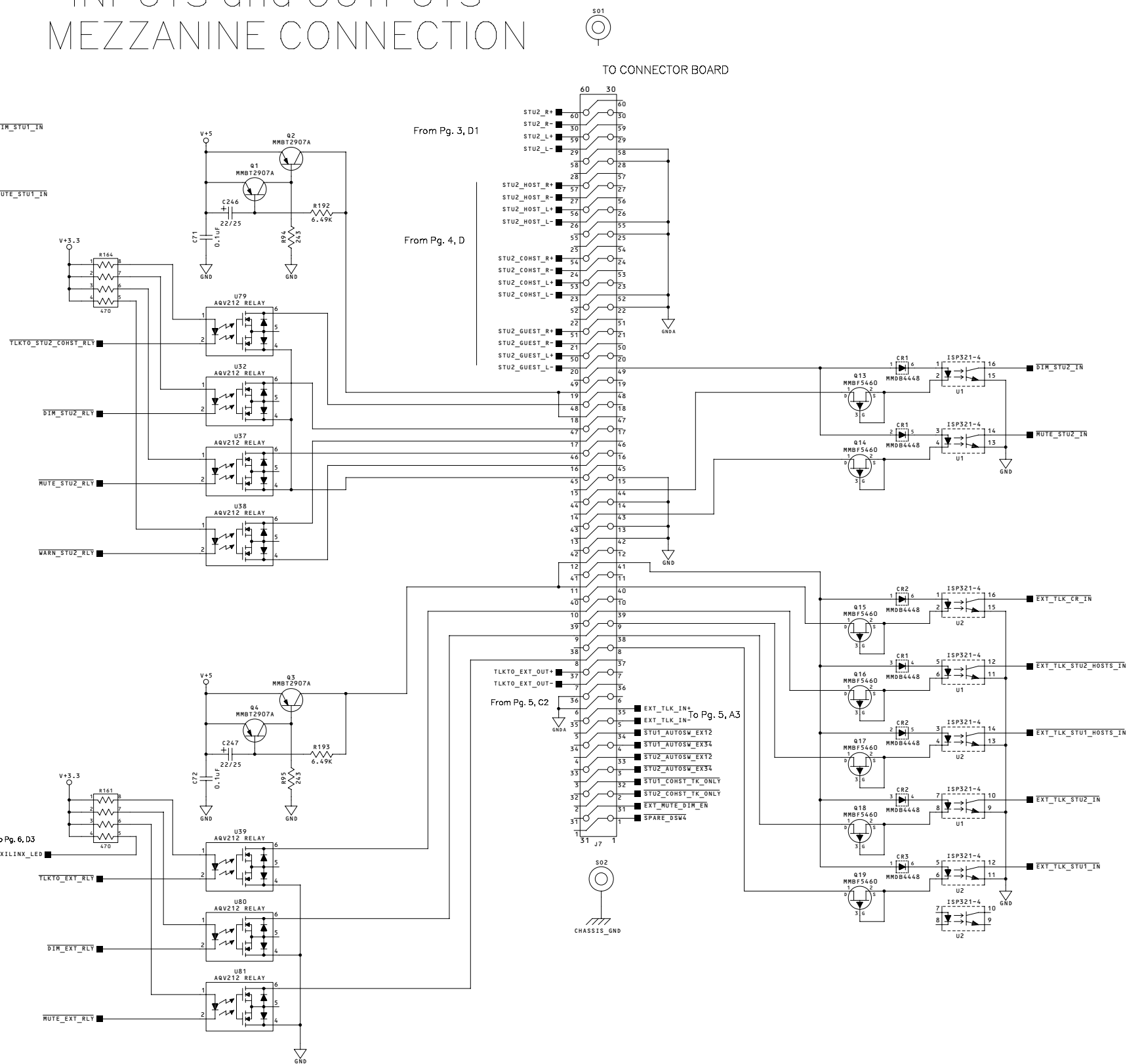
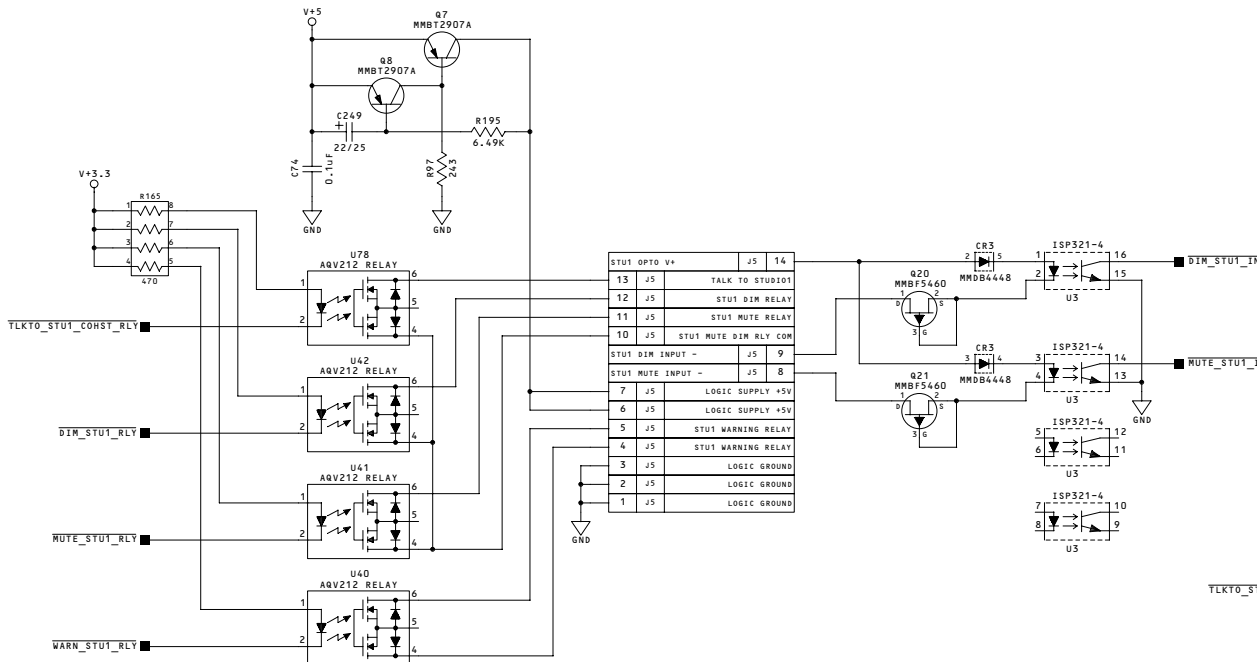
D

TO SWITCH BOARD FLEX CABLE CONNECTORS

POWER REGS FOR STEREO VOLUME CONTROLS AND A/D CONVERTERS



EXTERNAL LOGIC
INPUTS and OUTPUTS
MEZZANINE CONNECTION



ALL EXTERNAL I/O SIGNALS TO/FROM XILINX, Pg. 6