



AIR TRAINING COMMAND

COMPUTER SYSTEMS DEPARTMENT

AN/FSQ-7 DISPLAY SYSTEM SCHEMATICS
VOLUME 2

CIRCUITS AND DIAGRAMS

Course Nr. ABR30533-1

KEESLER AFB, MISS

FOR ATC INSTRUCTIONAL PURPOSES ONLY

This Schematics and Logic Diagrams Book provides student study material in support of Type II and Type III computer maintenance courses relating to WS416L.

SCHEMATICS
FOR
DISPLAY SYSTEM
OF
AN/FSQ-7
COMBAT DIRECTION CENTRAL

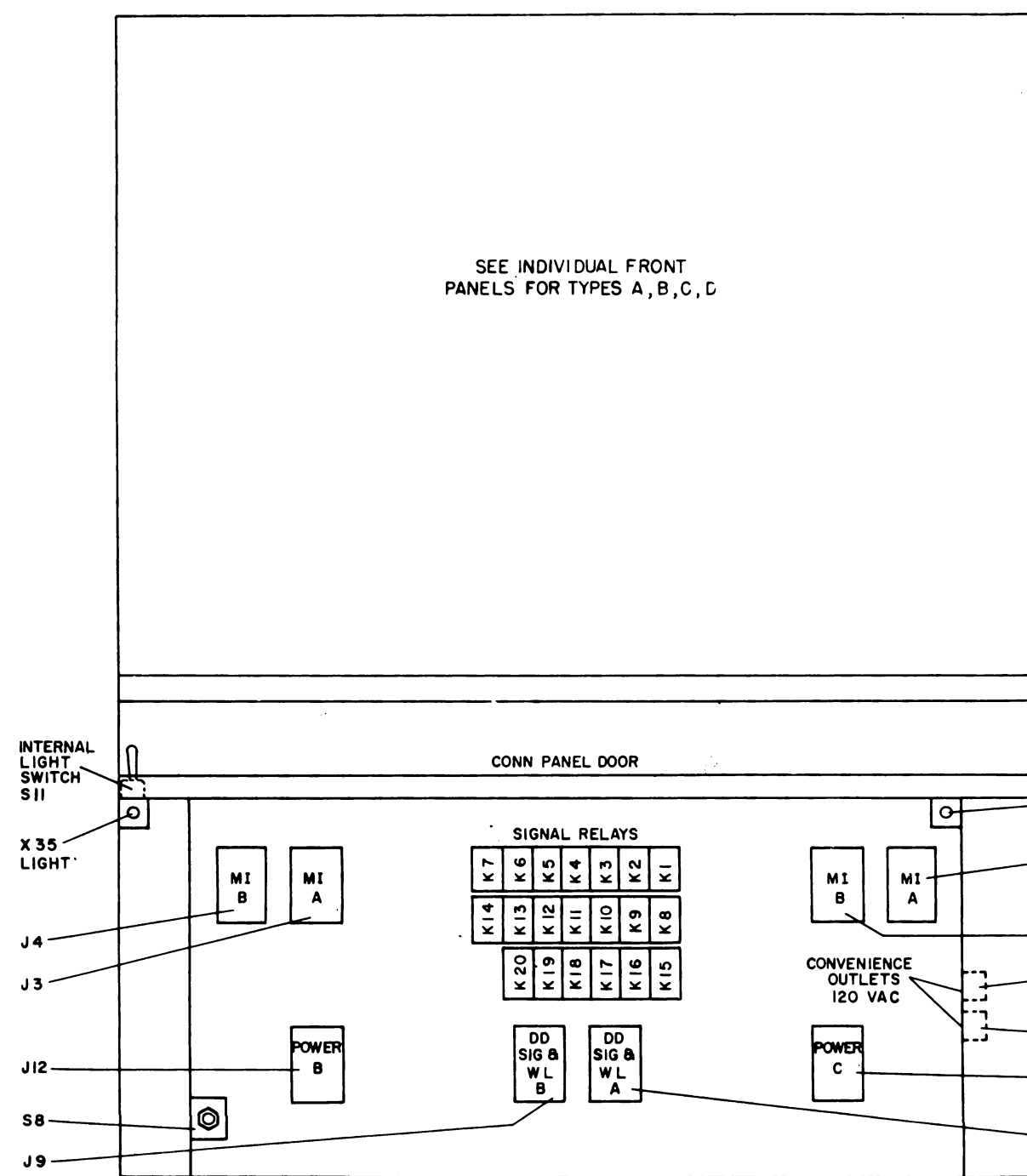
VOLUME II

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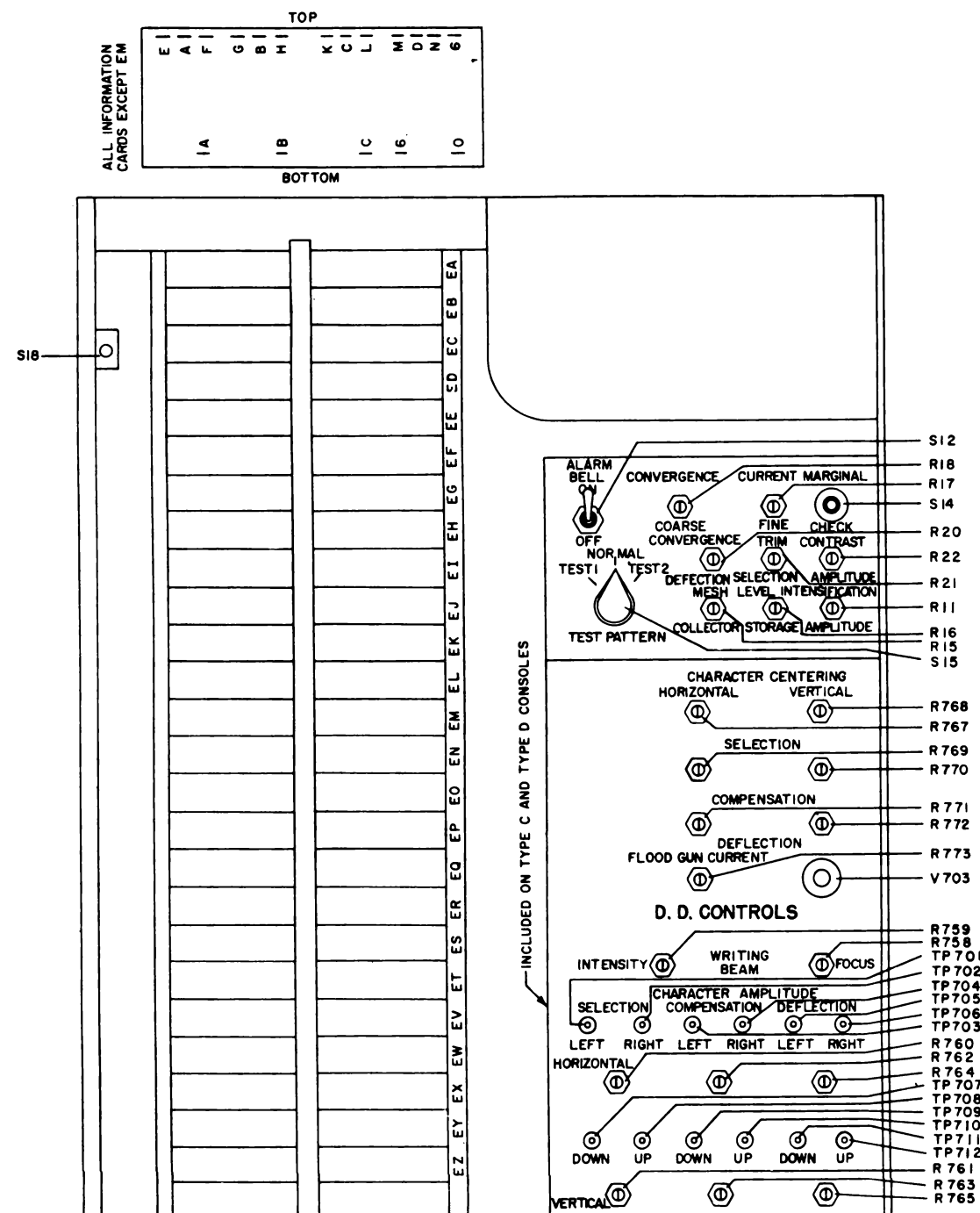
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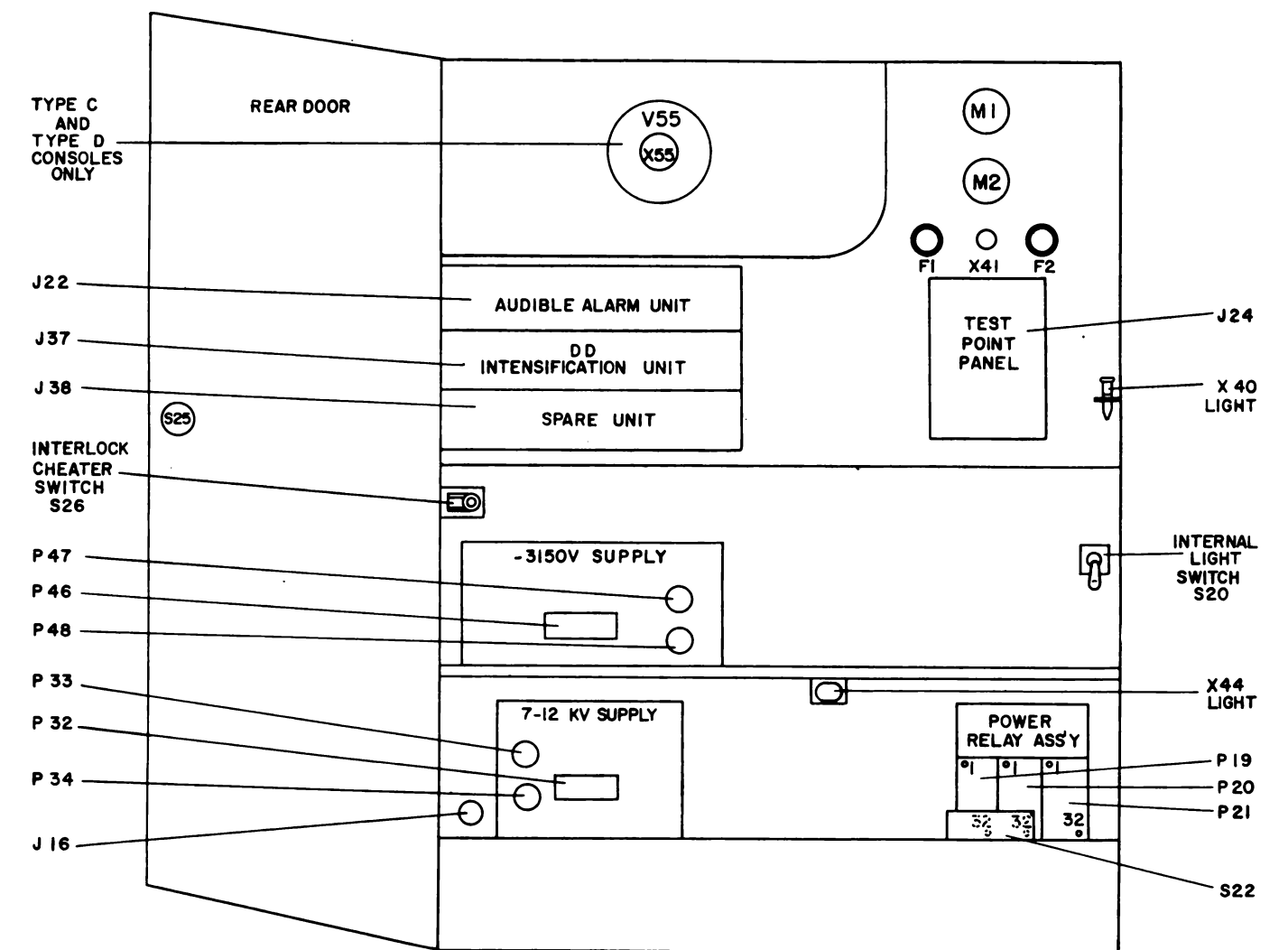
LOGIC	DESCRIPTION
NONE	AUXILIARY CONSOLE COMPONENT LOCATION DIAGRAM
S4. 2	SD CONSOLE BLOCK DIAGRAM
S4. 2. 1	SD CONSOLE SIGNAL CIRCUIT
S4. 2. 2	EXPANSION CIRCUIT SD CONSOLE
S4. 2. 2-2	SD CONSOLE EXPANSION CIRCUITS ROTARY S W
S4. 2. 3	SD CONSOLE INTENSIFICATION CIRCUITS
4. 2. 4	SD CONSOLE DEFLECTION CIRCUITS
4. 2. 5	SD CONSOLE DIGITAL DISPLAY
4. 2. 6	SD CONSOLE POWER DISTRIBUTION
NONE	J 37 S D CONSOLE TEST POINTS 2 SHEETS
4. 3. 1	DD INPUT SWITCH
4. 3. 2	DD TIMING & CONTROL
4. 3. 3	DD INDICATOR SELECTION CONTROL
4. 3. 4	DD CHARACTER SELECTION
4. 3. 5	DD CHARACTER POSITIONING
NONE	UNIT SUPPLEMENT CHART F R 25 MODULE A&B
NONE	UNIT SUPPLEMENT CHART F R 25 MODULE C&D
4C	UNIT SUPPLEMENT CHART F R 25 MODULE E
4. 4. 1	AUXILIARY CONSOLE BLOCK DIAGRAM
4. 4. 2	AUXILIARY CONSOLE DIGITAL DISPLAY
NONE	AUXILIARY CONSOLE POWER DISTRIBUTION
4. 5. 1	J 24 AUXILIARY CONSOLE TEST POINTS 2 SHEETS
4. 5. 1- 2	DISPLAY TESTER TEST CONTROL & WORD SEQUENCER
4. 5. 1- 3	DISPLAY TESTER
4. 5. 1- 4	DISPLAY TESTER LEFT WD OUTPUT
4. 6. 1	DISPLAY TESTER RIGHT WD OUTPUT
4. 8	SD CAMERA CONTROL
4. 8. 1	PROJECTION SYSTEM BLOCK DIAGRAM
4. 8. 2	PROJECTION SYSTEM CATAGORY SELECTION
4. 8. 3	PROJECTION SYSTEM EXPANSION & OFF CENTERING
4. 8. 4	PROJECTION SYSTEM INTENSIFICATION CIRCUIT
4. 8. 5	PROJECTION SYSTEM DEFLECTION CIRCUITS
4. 8. 6	PROJECTION SYSTEM CONTROL CIRCUITS SCHEMATIC DIAGRAM
6. 2. 1	PROJECTION SYSTEM POWER DISTRIBUTION
S6. 3. 1	WARNING LIGHT STORAGE LS THRU L3
NONE	WARNING LIGHT INTERCONNECTION ASSIGNMENTS, PANEL A
	S D COMPONENT LOCATION DIAGRAM



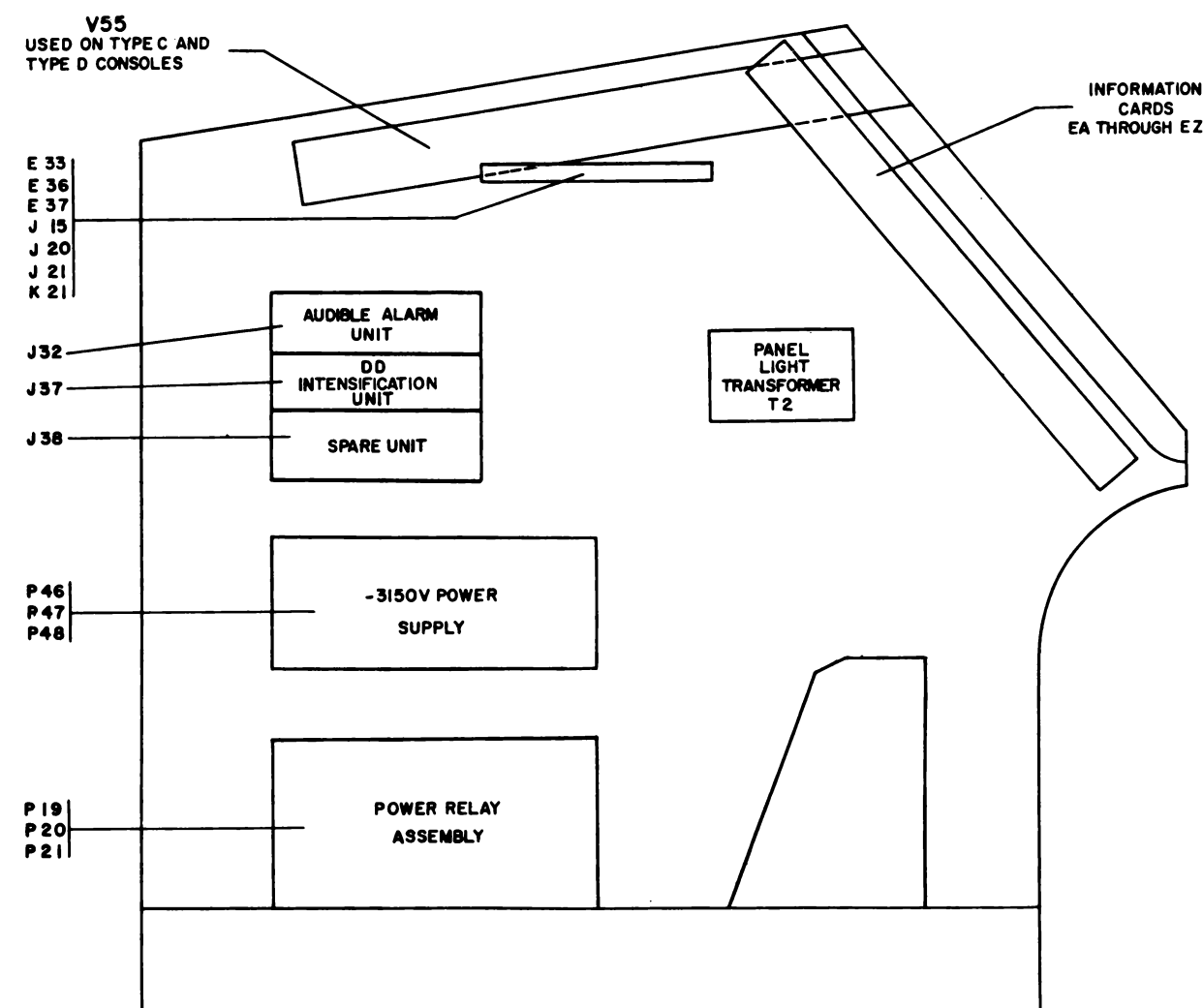
Auxiliary Console Component Location Diagram (Sheet 1 of 5)



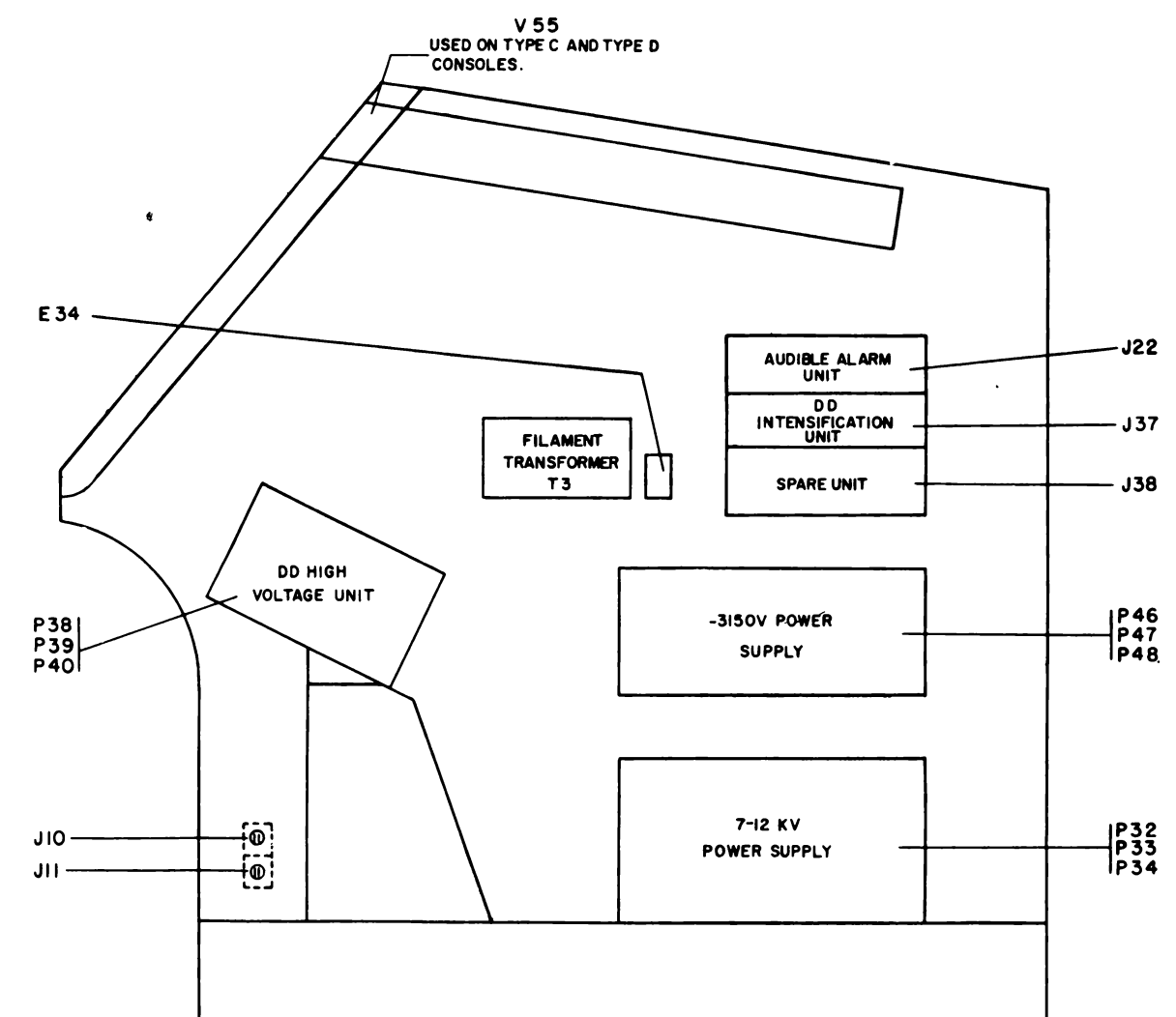
Auxiliary Console Component Location Diagram (Sheet 2 of 5)



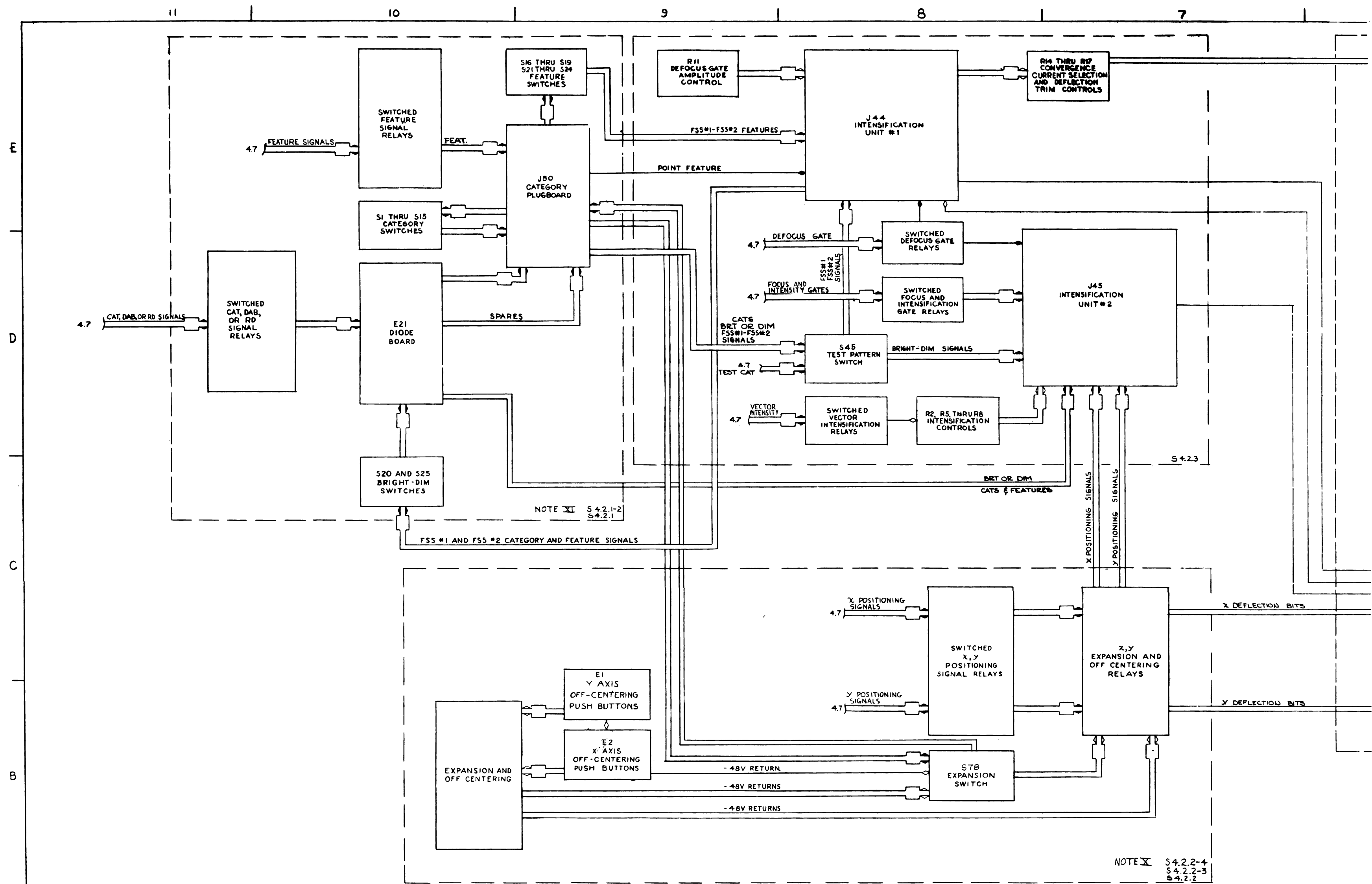
Auxiliary Console Component Location Diagram (Sheet 3 of 5)



Auxiliary Console Component Location Diagram (Sheet 4 of 5)



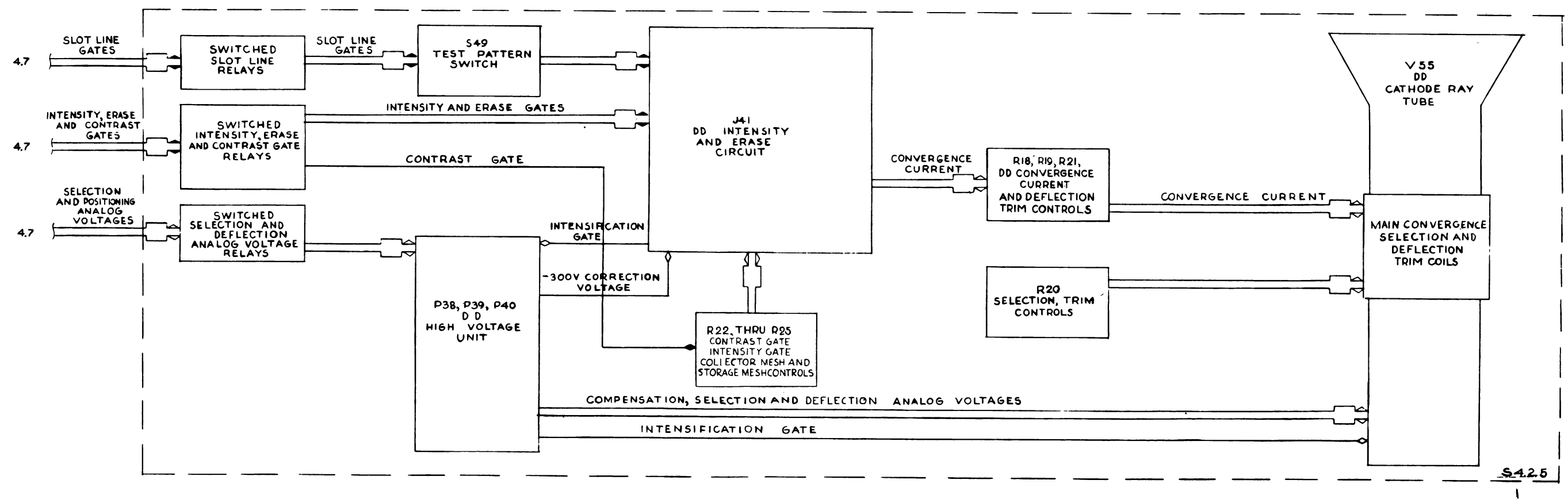
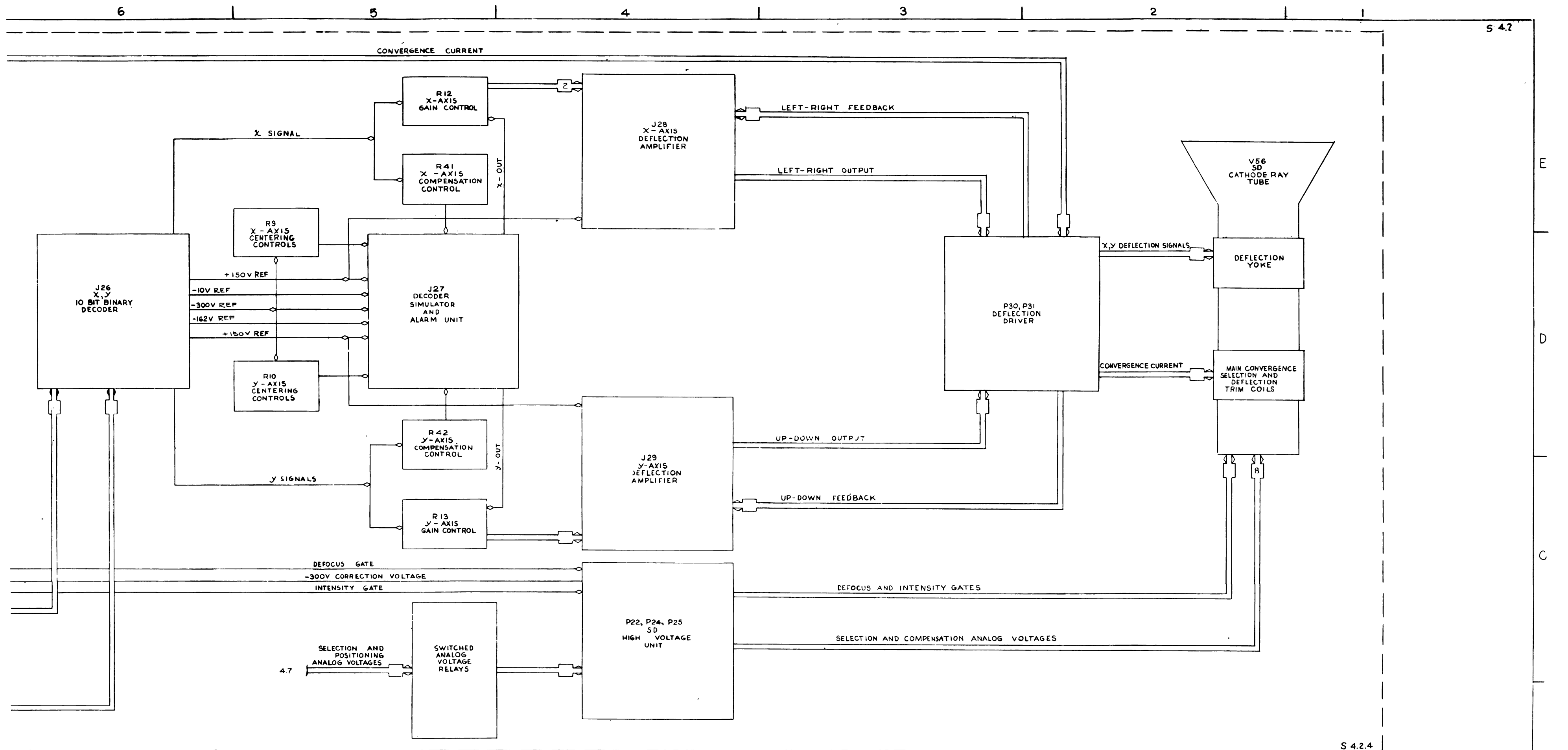
Auxiliary Console Component Location Diagram (Sheet 5 of 5)



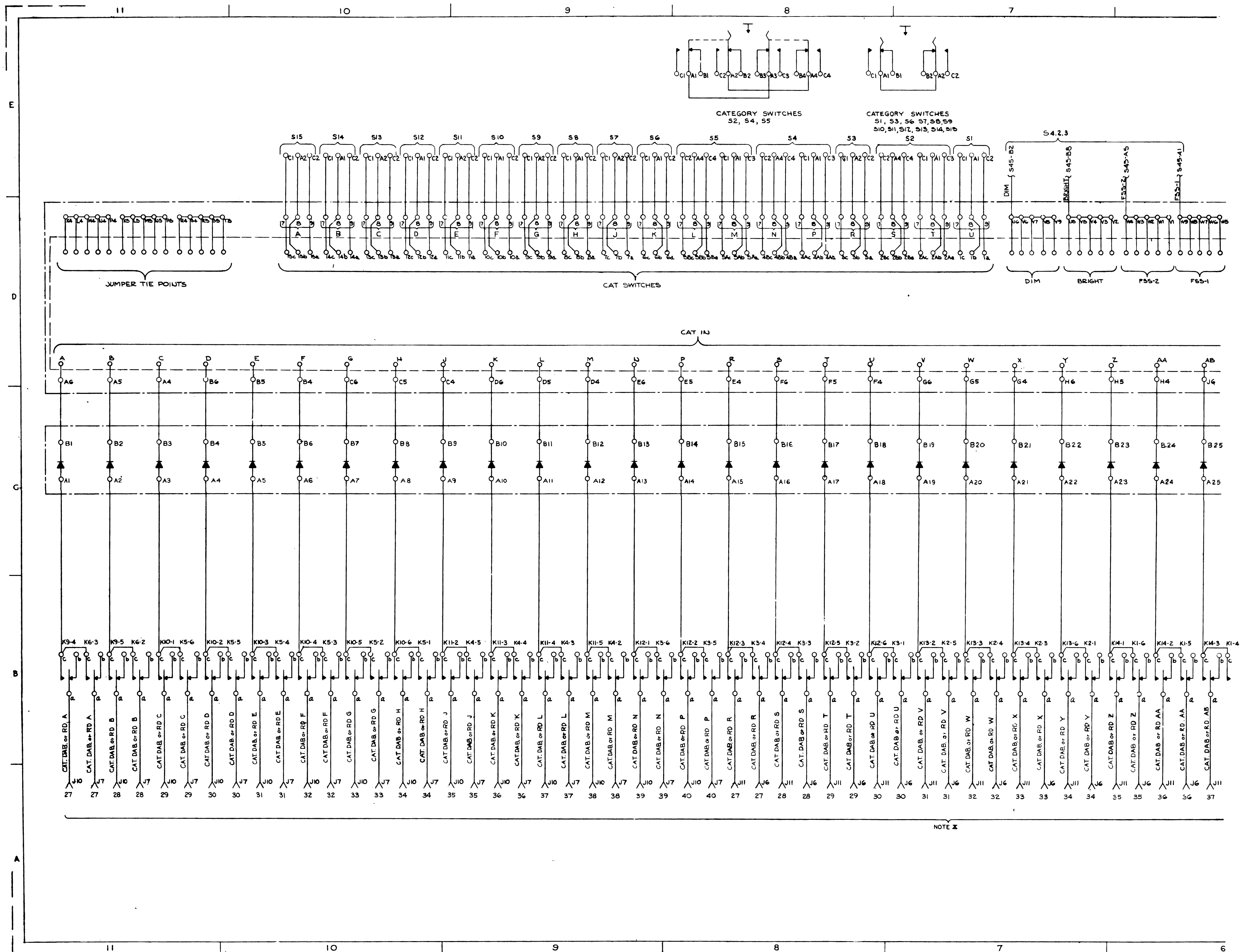
- XI S4.2.1-2 NAA REWORKED CONSOLES
 S4.2.1 ALL CONSOLES EXCEPT THOSE REWORKED FOR NAA
 X S4.2.2-3 NAA REWORKED PLUG BOARD CONSOLES
 S4.2.2-4 NAA REWORKED ROTARY SWITCH CONSOLES
 S4.2.2 ALL CONSOLES EXCEPT THOSE REWORKED FOR NAA

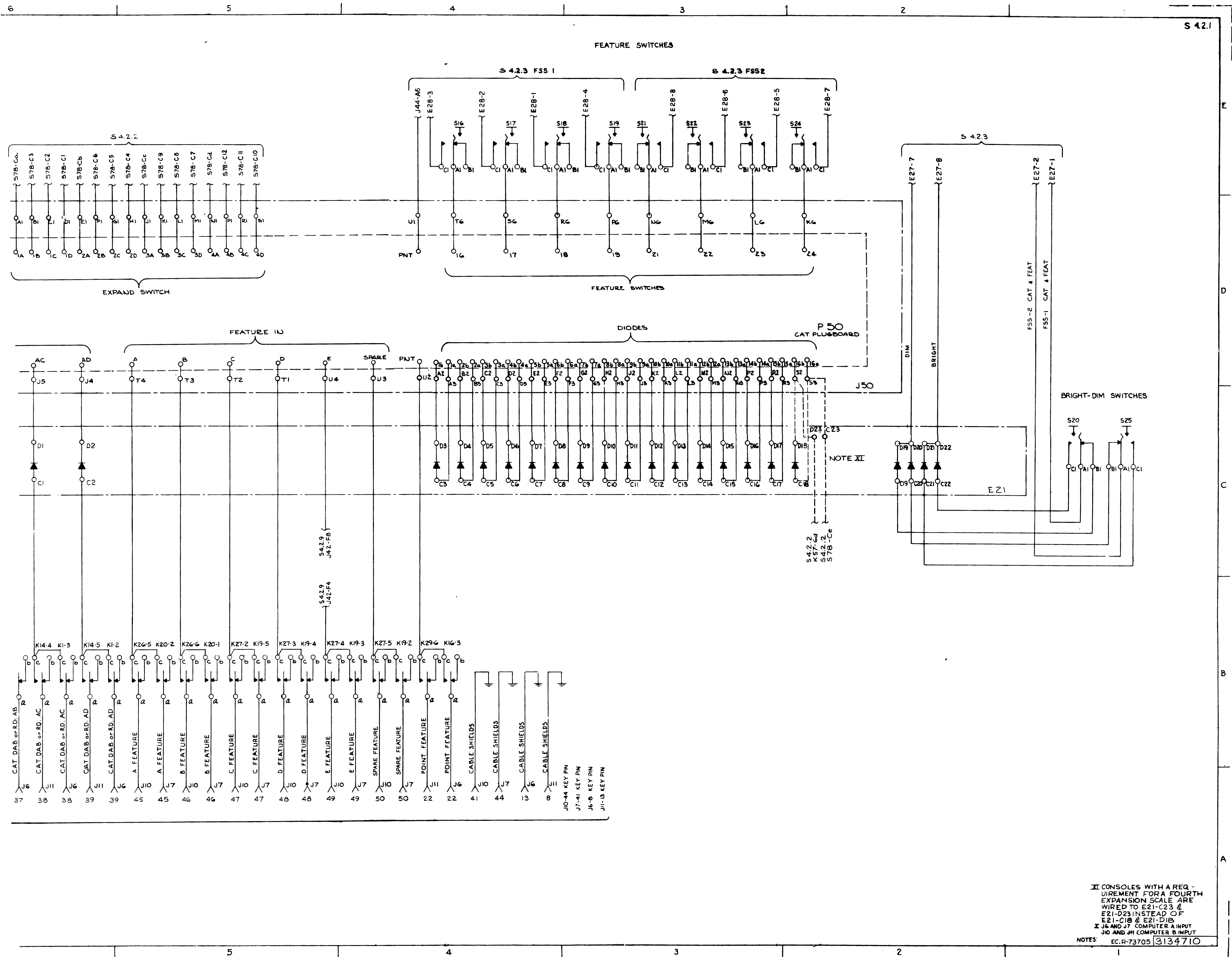
NOTES:

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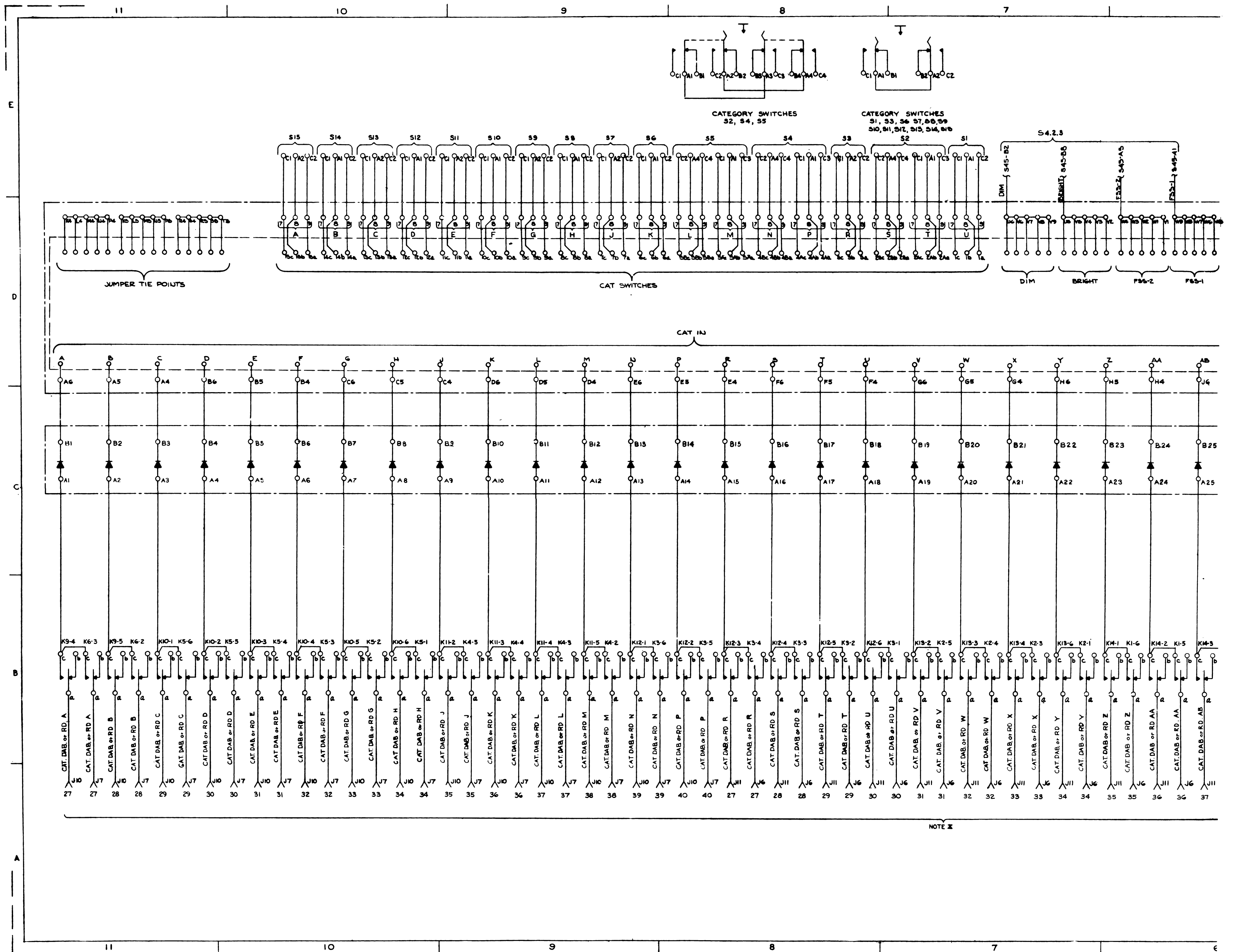


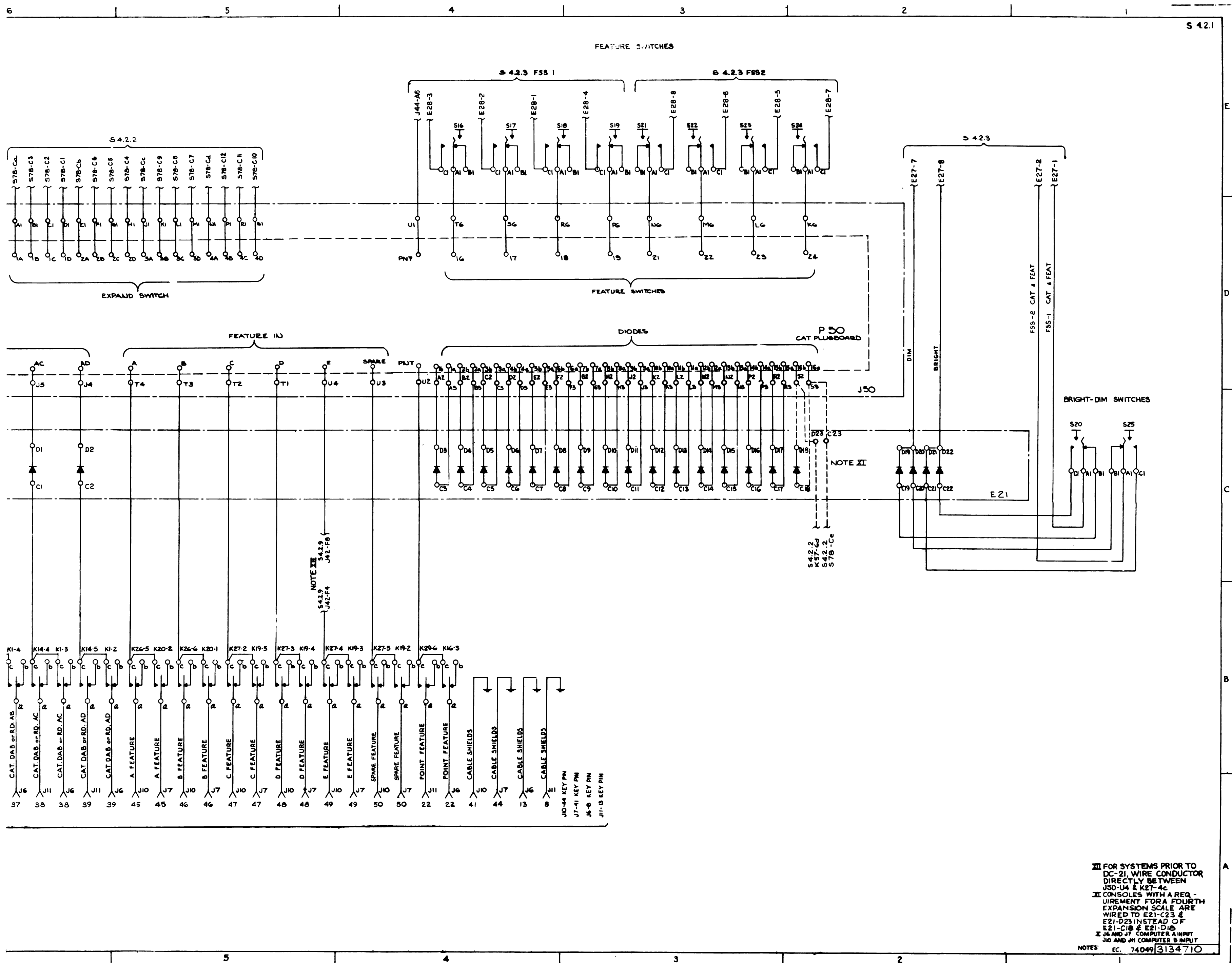
SD Console Block Diagram



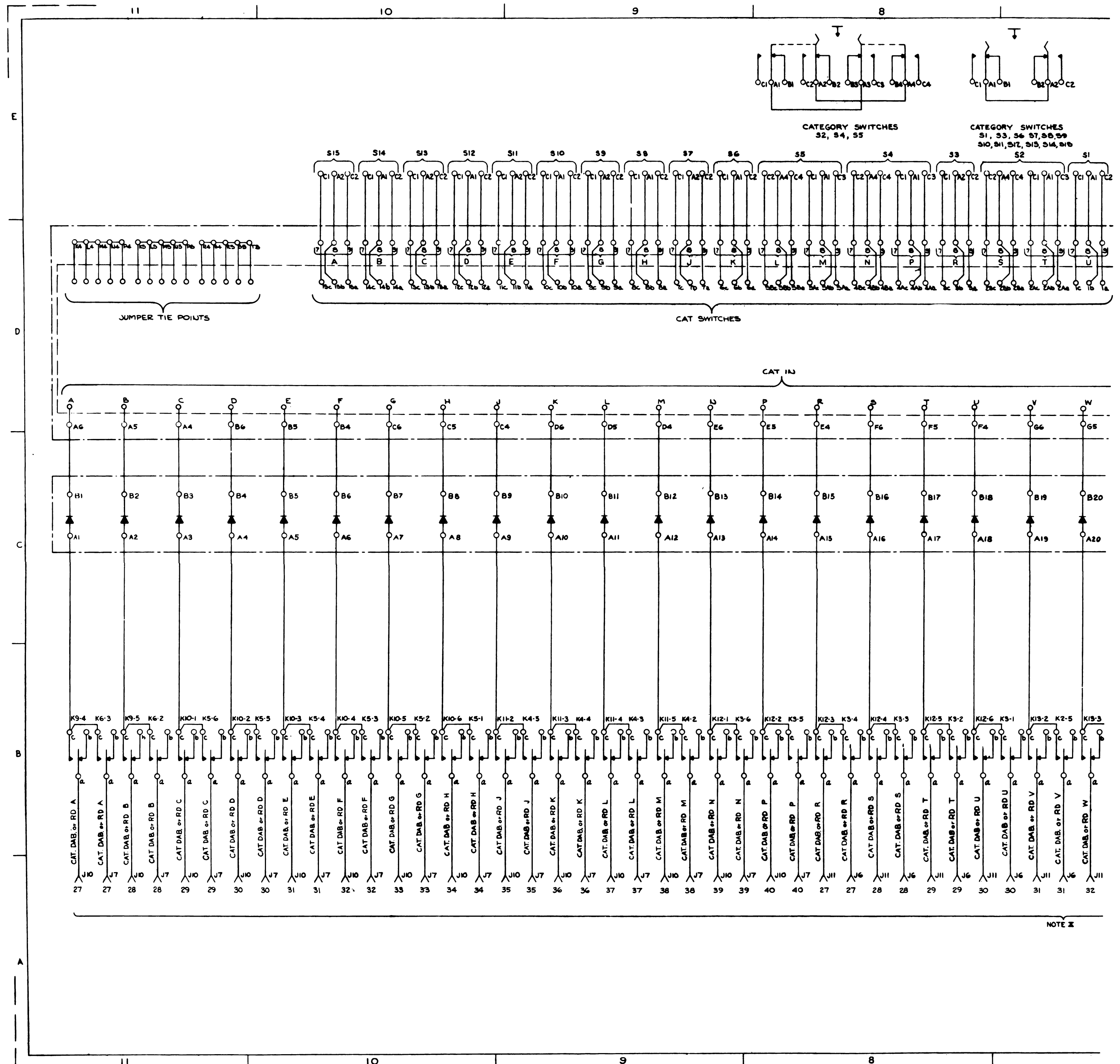


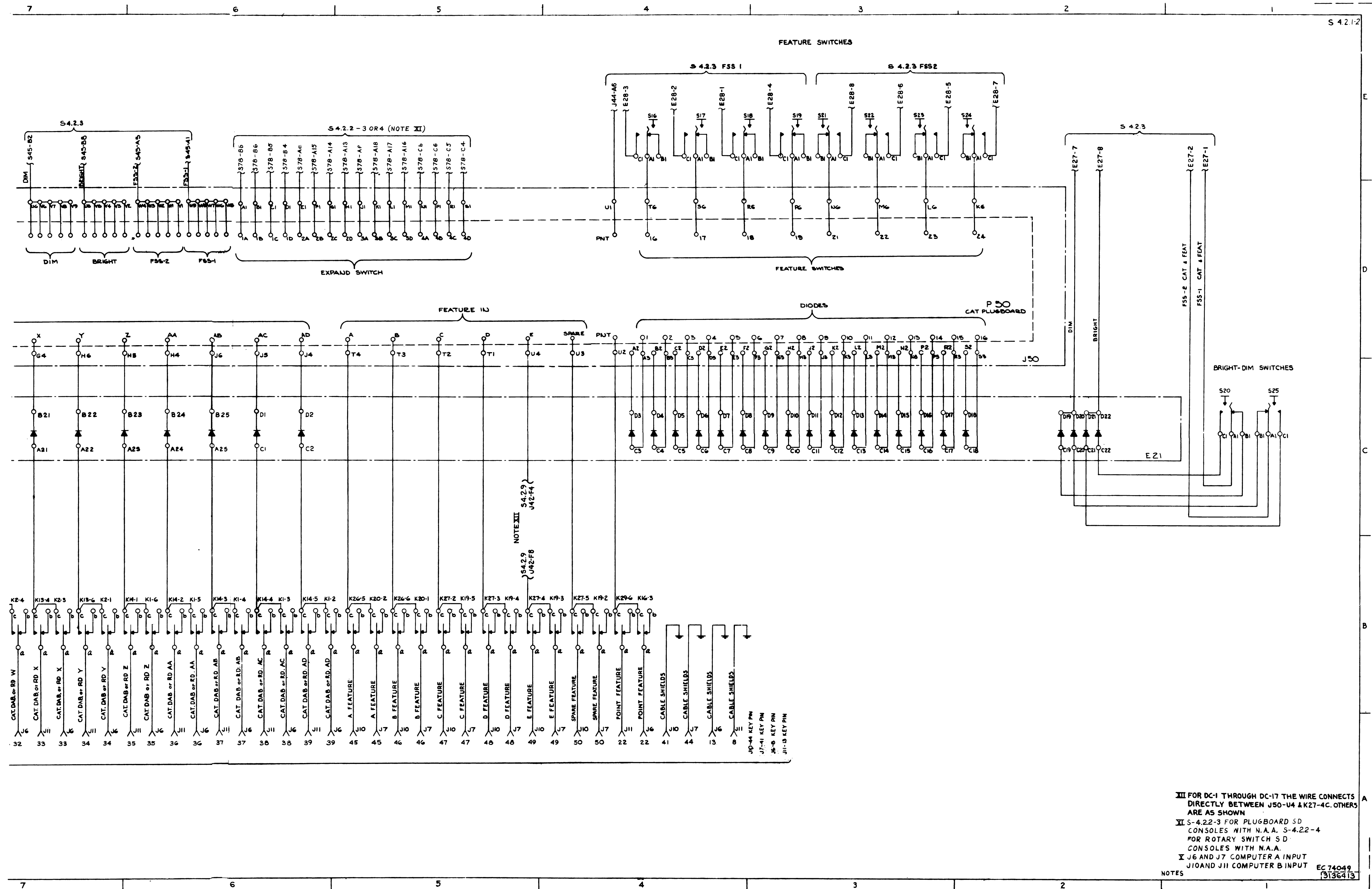
XI CONSOLES WITH A REQ-
 UIREMENT FOR A FOURTH
 EXPANSION SCALE ARE
 WIRED TO E21-C23 &
 E21-D23 INSTEAD OF
 E21-C18 & E21-D18
 X J6 AND J7 COMPUTER A INPUT
 J10 AND J11 COMPUTER B INPUT
 NOTES: EC-R-73705 3134710

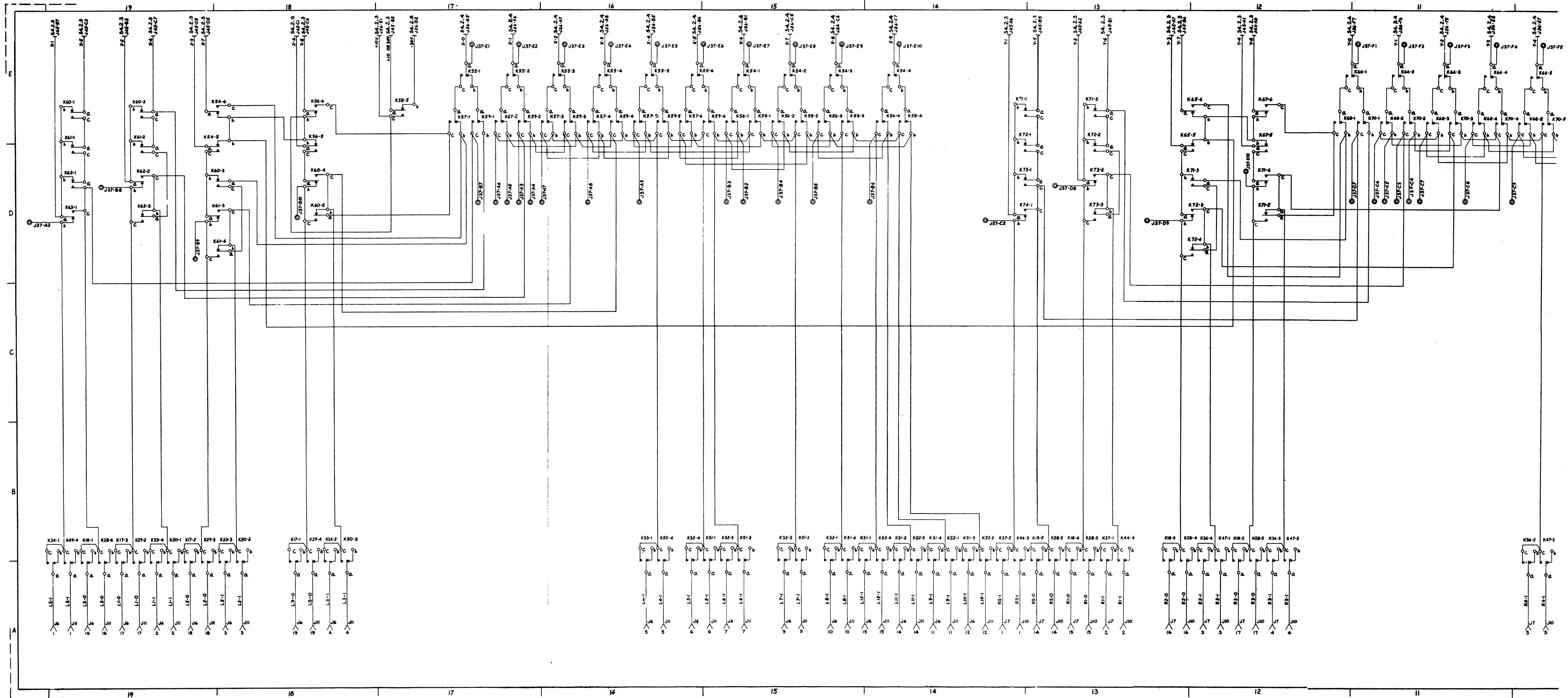


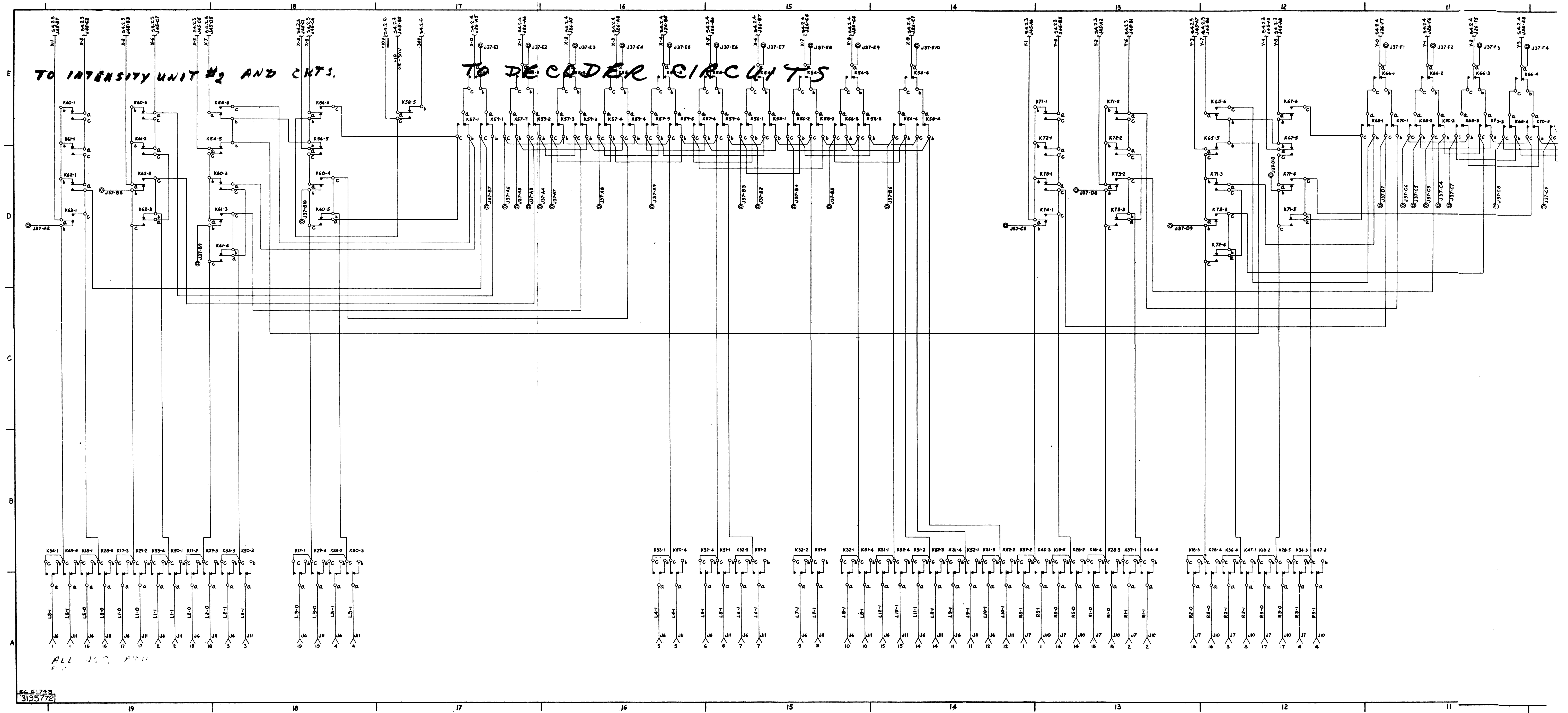


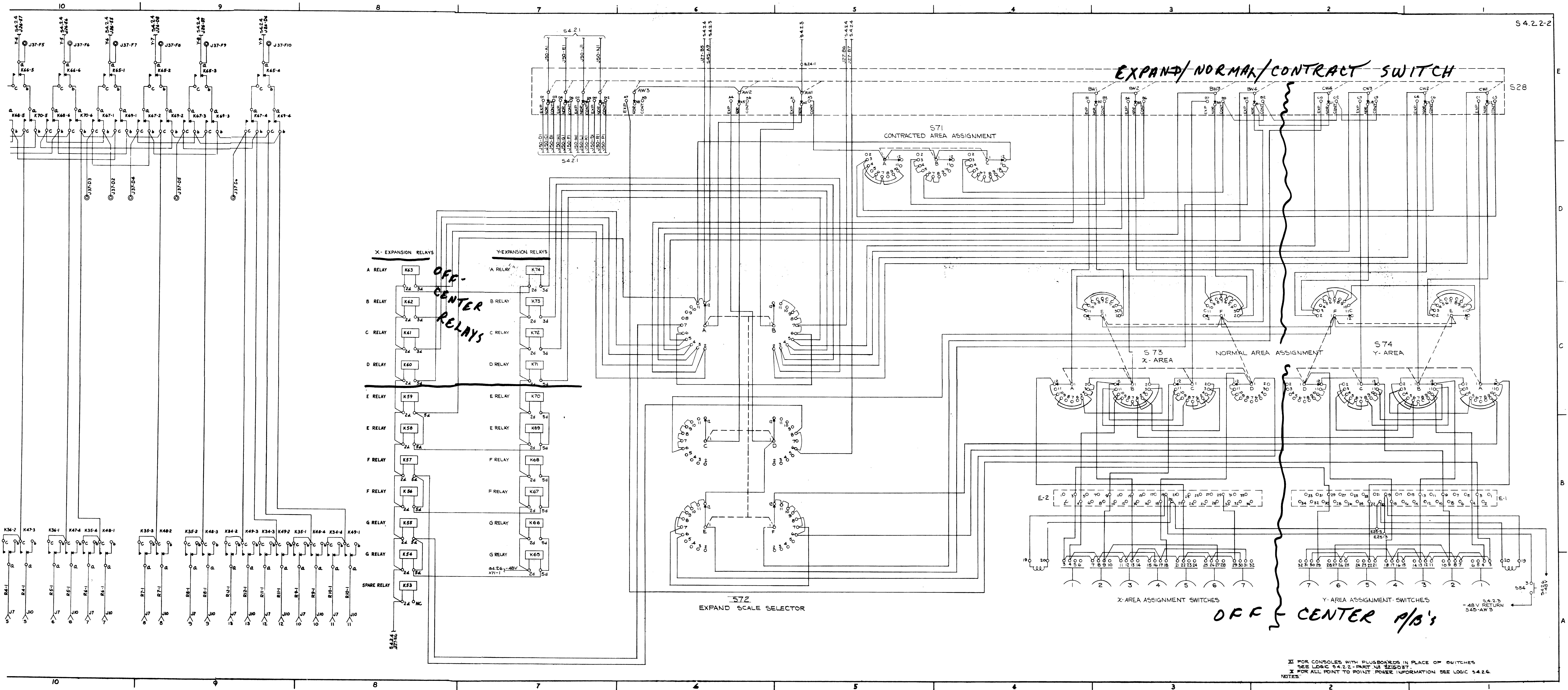
III FOR SYSTEMS PRIOR TO DC-21, WIRE CONDUCTOR DIRECTLY BETWEEN J50-U4 & K27-4c
 II CONSOLES WITH A REQ - WIREMENT FOR A FOURTH EXPANSION SCALE ARE WIRED TO E21-C23 & E21-D23 INSTEAD OF E21-C18 & E21-D18
 X J6 AND J7 COMPUTER INPUT
 J10 AND J11 COMPUTER B INPUT
 NOTES: EC. 74049 3134710



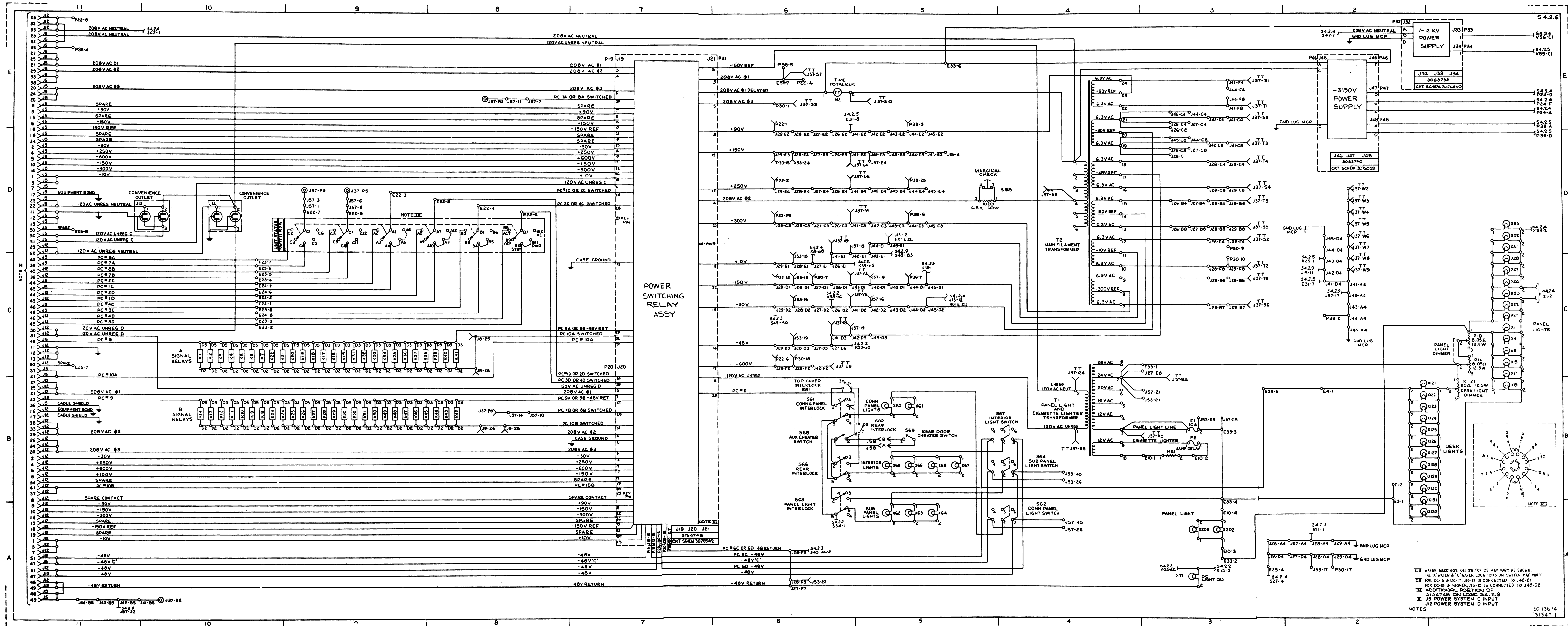












SD Console Power Distribution

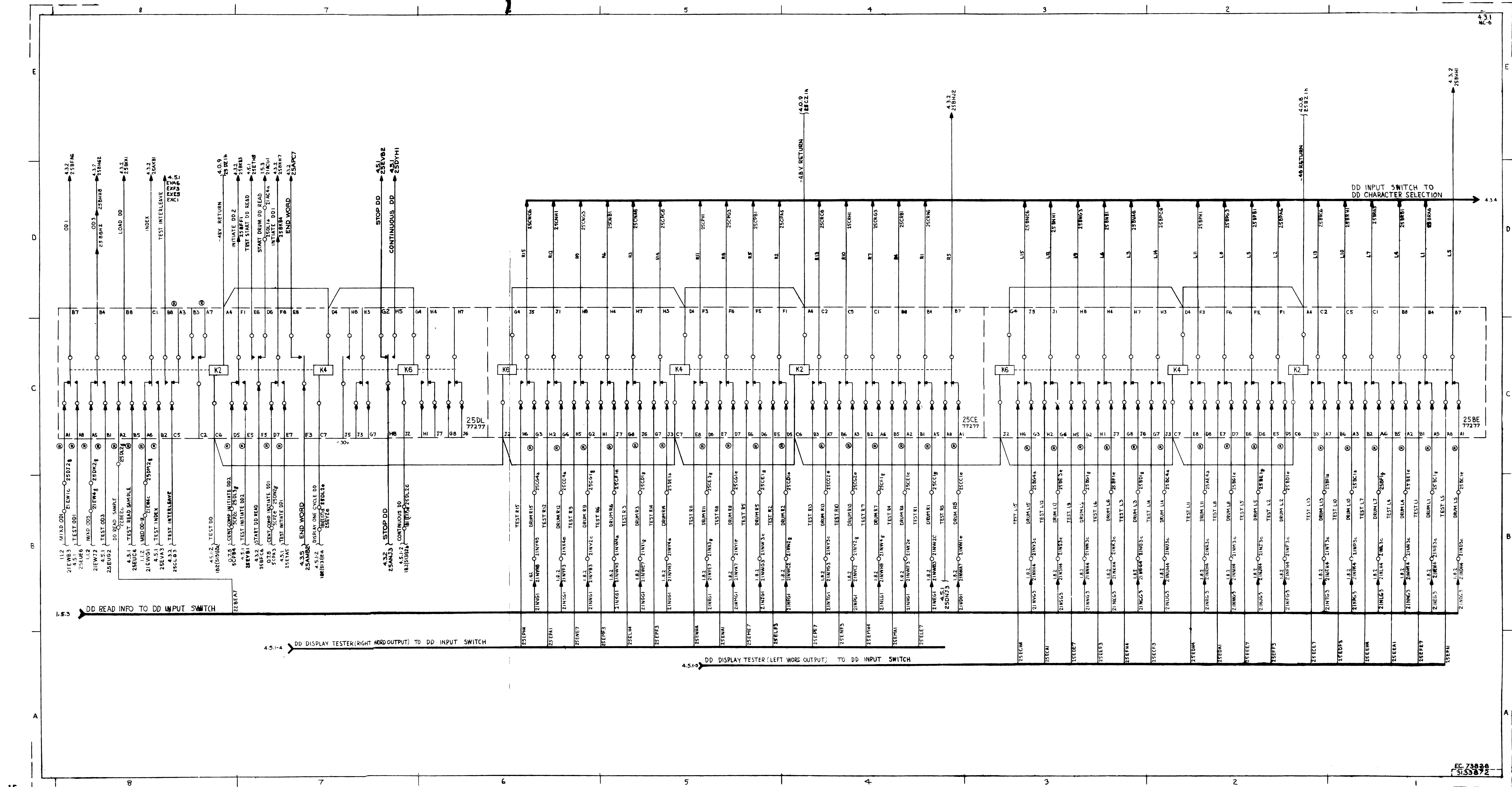
	10	9	8	7	6	5	4	3	2	1	
A	○	○	○	○	○	○	○	○	○	○	A
B	○	○	○	○	○	○	○	○	○	○	B
C	○	○	○	○	○	○	○	○	○	○	C
D	○	○	○	○	○	○	○	○	○	○	D
E	○	○	○	○	○	○	○	○	○	○	E
F	○	○	○	○	○	○	○	○	○	○	F
G	○	○	○	○	○	○	○	○	○	○	G
H	○	○	○	○	○	○	○	○	○	○	H
J	○	○	○	○	○	○	○	○	○	○	J
K	○	○	○	○	○	○	○	○	○	○	K
L	○	○	○	○	○	○	○	○	○	○	L
M	○	○	○	○	○	○	○	○	○	○	M
N	○	○	○	○	○	○	○	○	○	○	N
P	○	○	○	○	○	○	○	○	○	○	P
R	○	○	○	○	○	○	○	○	○	○	R
S	○	○	○	○	○	○	○	○	○	○	S
T	○	○	○	○	○	○	○	○	○	○	T
U	○	○	○	○	○	○	○	○	○	○	U
V	○	○	○	○	○	○	○	○	○	○	V
W	○	○	○	○	○	○	○	○	○	○	W
	10	9	8	7	6	5	4	3	2	1	

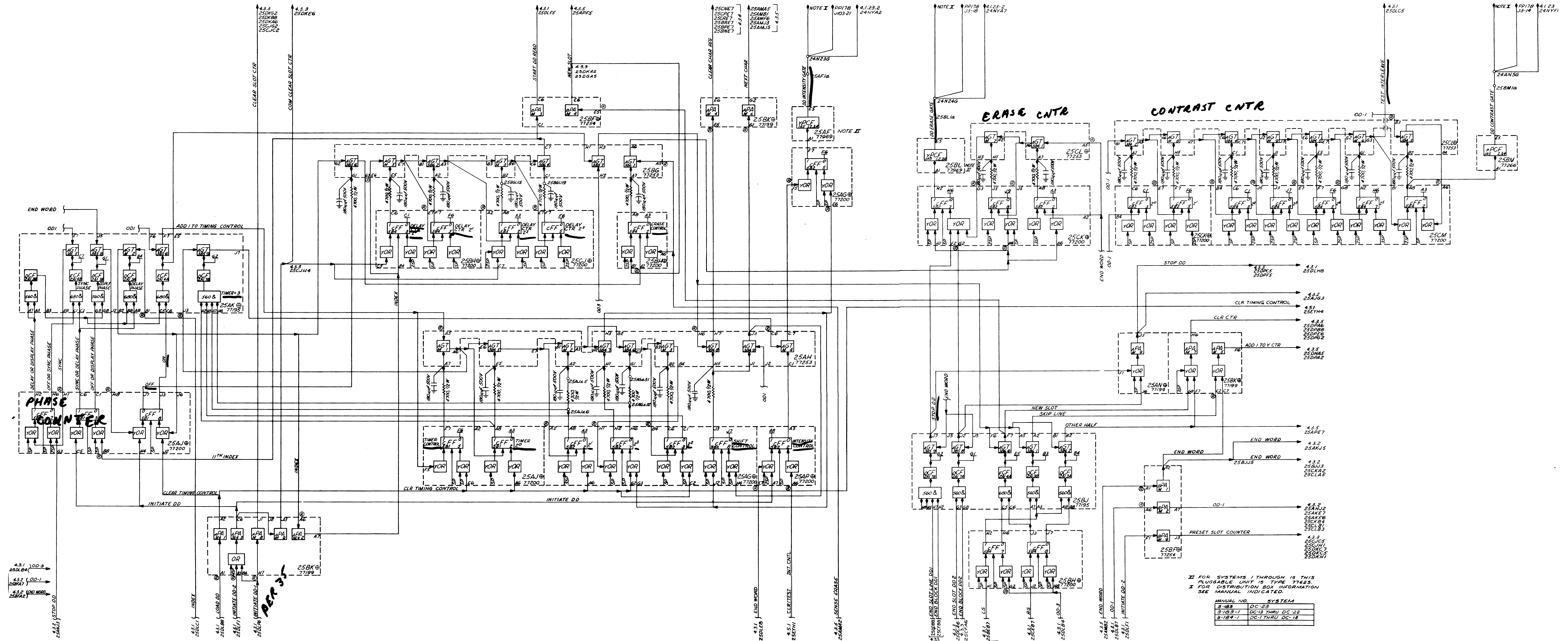
J37 TEST POINTS, SD CONSOLE

Test Point	Signal/Voltage	Connects	Logic
A1		-	-
A2	L5-1	K63-B1	4.2.2
A3	L1-1	K59-C2	4.2.2
A4	L2-1	K59-B2	4.2.2
A5	L3-1	K59-B2	4.2.2
A6	L4-1	K57-C2	4.2.2
A7	L5-1	K57-C3	4.2.2
A8	L6-1	K57-C4	4.2.2
A9	L7-1	K57-C5	4.2.2
A10		-	-
B1		-	-
B2	L8-1	K56-B1	4.2.2
B3	L9-1	K56-C1	4.2.2
B4	L10-1	K56-C2	4.2.2
B5	L11-1	K56-C3	4.2.2
B6	L12-1	K56-C4	4.2.2
B7	L5-0	K59-C1	4.2.2
B8	L1-0	K62-B3	4.2.2
B9	L2-0	K61-B3	4.2.2
B10	L3-0	K60-B4	4.2.2
C1		-	-
C2	R5-1	K74-B1	4.2.2
C3	R1-1	K70-B1	4.2.2
C4	R2-1	K70-B2	4.2.2
C5	R3-1	K68-B2	4.2.2
C6	R4-1	K68-C2	4.2.2
C7	R5-1	K68-C3	4.2.2

Test Point	Signal/Voltage	Connects	Logic	Test Point	Signal/Voltage	Connects	Logic
C8	R6-1	K68-C4	4.2.2	F5	Y-4	K66-A5	4.2.2
C9	R7-1	K68-C5	4.2.2	F6	Y-5	K66-A6	4.2.2
C10		-	-	F7	Y-6	K65-A1	4.2.2
D1		-	-	F8	Y-7	K65-A2	4.2.2
D2	R8-1	K67-B1	4.2.2	F9	Y-8	K65-A3	4.2.2
D3	R9-1	K67-C1	4.2.2	F10	Y-9	K65-A4	4.2.2
D4	R10-1	K67-C2	4.2.2	G1	X-OUT SIGNAL	J26-A2	4.2.4
D5	R11-1	K67-C3	4.2.2	G2	Y-OUT SIGNAL	J26-F1	4.2.4
D6	R12-1	K67-C4	4.2.2	G3	HORIZONTAL CENTER	J27-A6	4.2.4
D7	R5-0	K70-C1	4.2.2	G4	VERTICAL CENTER	J27-A8	4.2.4
D8	R1-0	K73-B2	4.2.2	G5	X-AXIS OUTPUT	J27-A5	4.2.4
D9	R2-0	K72-B3	4.2.2	G6	Y-AXIS OUTPUT	J27-A7	4.2.4
D10	R3-0	K71-B4	4.2.2	G7	DOWN FEEDBACK	J29-B1	4.2.4
E1	X-0	K55-A1	4.2.2	G8	LEFT FEEDBACK	J28-B1	4.2.4
E2	X-1	K55-A2	4.2.2	G9	UP FEEDBACK	J29-C6	4.2.4
E3	X-2	K55-A3	4.2.2	G10	RIGHT FEEDBACK	J28-C6	4.2.4
E4	X-3	K55-A4	4.2.2	H1	VIA CATHODE "X"	J28-A1	4.2.4
E5	X-4	K55-A5	4.2.2	H2	VIA CATHODE "Y"	J29-A1	4.2.4
E6	X-5	K55-A6	4.2.2	H3	VIB CATHODE "X"	J28-A3	4.2.4
E7	X-6	K54-A2	4.2.2	H4	VIB CATHODE "Y"	J29-A3	4.2.4
E8	X-7	K54-A2	4.2.2	H5	VIGRIDS "X" AMP	J28-A2	4.2.4
E9	X-8	K54-A3	4.2.2	H6	VIGRIDS "Y" AMP	J29-A2	4.2.4
E10	X-9	K54-A4	4.2.2	H7		-	-
F1	Y-0	K66-A1	4.2.2	H8		-	-
F2	Y-1	K66-A2	4.2.2	H9		-	-
F3	Y-2	K66-A3	4.2.2	H10		-	-
F4	Y-3	K66-A4	4.2.2	J1		-	-
				J2		-	-

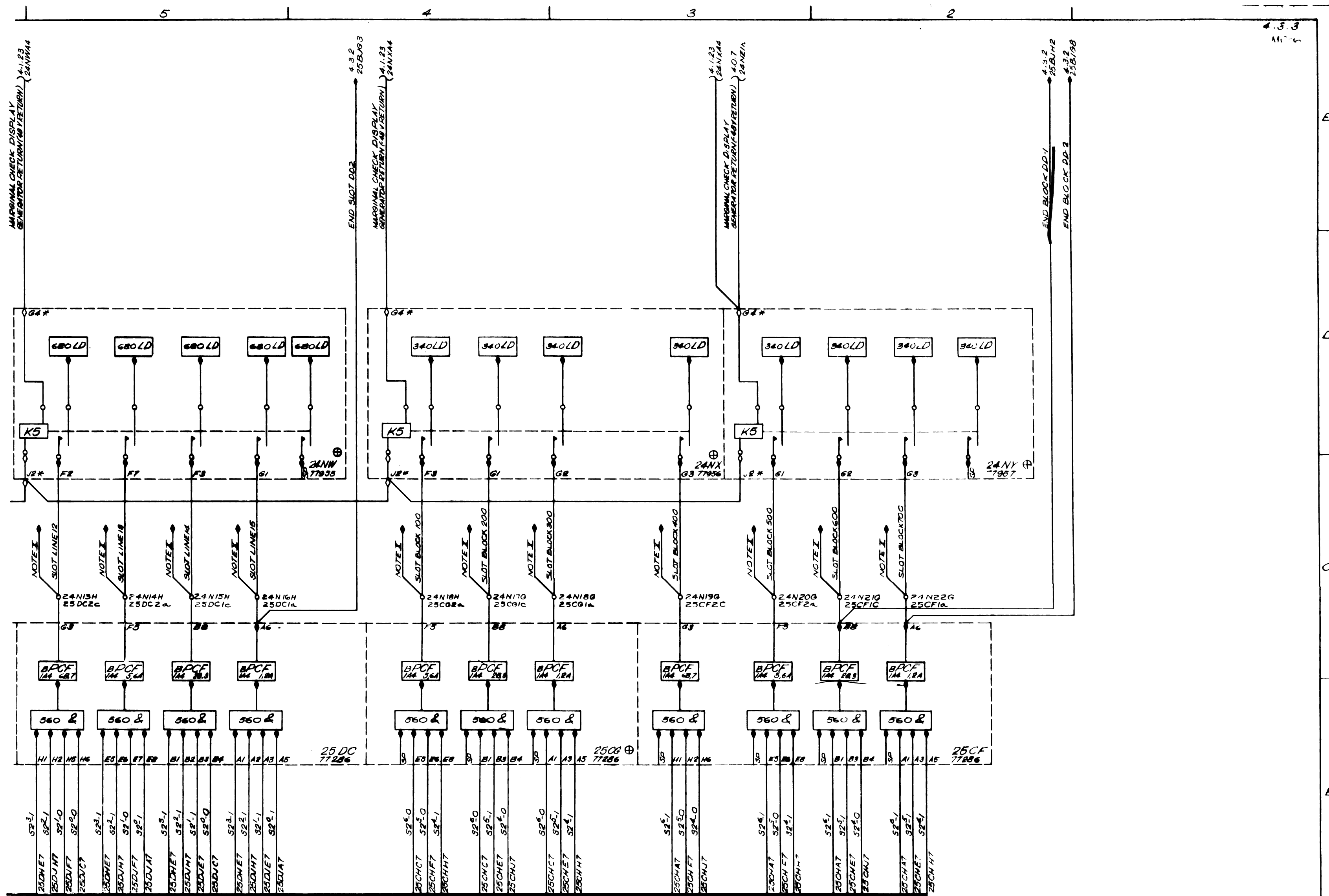
Test Point	Signal/Voltage	Connects	Logic	Test Point	Signal/Voltage	Connects	Logic	Test Point	Signal/Voltage	Connects	Logic	Test Point	Signal/Voltage	Connects	Logic	Test Point	Signal/Voltage	Connects	Logic
J3	FSS-1 BRIGHT-DIM	J44-F5	4.2.3	M1	28 VAC SWITCHED	J27-F5	4.2.6	P9	SELECTION COIL	E31-2	4.2.5	T7	-	-	-	W5	GROUND	J37-W6	4.2.6
J4	FSS-2 BRIGHT-DIM	J44-F6	4.2.3	M2	-	-	-	P10	SELECTION COIL	J41-A1	4.2.5	T8	-	-	-	W6	GROUND	J37-W7	4.2.6
J5	BYPASS	J44-B6	4.2.3	M3	-	-	-	R1	-48 V	J41-D3	4.2.6	T9	-	-	-	W7	GROUND	J37-W8	4.2.6
J6	POINT INPUT	J44-A6	4.2.3	M4	-	-	-	R2	-48 V RETURN	J41-B5	4.2.6	T10	-	-	-	W8	GROUND	J37-W9	4.2.6
J7	POINT INTENSITY	J44-A8	4.2.3	M5	-	-	-	R3	120 VAC	T1-1	4.2.6	U1	-	-	-	W9	GROUND	J41-A4	4.2.6
J8	SD DEFOCUS TO HV UNIT	J44-F7	4.2.3	M6	-	-	-	R4	120 VAC NEUTRAL	T1-2	4.2.6	U2	+90 V	E31-8	4.2.6	W10	-	-	-
J9	SD DEFOCUS AMP	J44-E8	4.2.3	M7	-	-	-	R5	PANEL LIGHT LINE	T1-3	4.2.6	U3	-	-	-				
J10	SD MATRIX	P22-23	4.2.4	M8	-	-	-	R6	PANEL LIGHT LINE	T1-8	4.2.6	U4	+150 V	J41-E3	4.2.6				
K1	-	-	-	M9	-	-	-	R7	-	-	-	U5	-	-	-				
K2	-	-	-	M10	-	-	-	R8	CONVERGENCE CURRENT COARSE	J44-A3	4.2.3	U6	+250 V	J41-E4	4.2.6				
K3	DEFOCUS IN	J44-E7	4.2.3	N1	DD INTENSITY GATE	J41-E7	4.2.5	R9	SELECTION TRIM	J44-A1	4.2.3	U7	-	-	-	XV 6.3 VAC BETWEEN S1 AND T1, +90 V TO GND W2			
K4	FOCUS IN	J45-F5	4.2.3	N2	DD INTENSITY SEL 2	J41-E8	4.2.5	R10	SD CONVERGENCE CURRENT	R17-A3	4.2.3	U8	+600 V	J42-F2	4.2.6	XIV 6.3 VAC BETWEEN S2 AND T2, +10 V TO GND W2			
K5	INTENSITY IN	J45-E7	4.2.3	N3	DD INTENSITY SEL 1	F41-F5	4.2.5	S1	6.3 VAC/+90 V REF NOTE XV	J41-F4	4.2.6	U9	-	-	-	XIII 6.3 VAC BETWEEN S3 AND T3, -30 V TO GND W2			
K6	BRIGHT POINT INTENSITY	J45-E6	4.2.3	N4	DD ERASE GATE	J41-D8	4.2.5	S2	6.3 VAC/+10 V REF NOTE XIV	J29-F4	4.2.6	U10	-	-	-	XII 6.3 VAC BETWEEN S4 AND T4, -48 V TO GND W2			
K7	DIM POINT INTENSITY	J45-D7	4.2.3	N5	DD ERASE SEL 1	J41-E5	4.2.5	S3	6.3 VAC/-30 V REF NOTE XIII	J41-C4	4.2.6	V1	-300 V	J41-C3	4.2.6	XI 6.3 VAC BETWEEN S5 AND T5, -150 V TO GND W2			
K8	BRIGHT CHARACTER INTENSITY	J45-E5	4.2.3	N6	DD ERASE SEL 2	J41-E6	4.2.5	S4	6.3 VAC/-48 V REF NOTE XII	J29-C8	4.2.6	V2	-	-	-	X 6.3 VAC BETWEEN S6 AND T6, -300 V TO GND W2			
K9	DIM CHARACTER INTENSITY	J45-E8	4.2.3	N7	COLLECTOR MESH	J41-C1	4.2.5	S5	6.3 VAC/-150 V REF NOTE XI	J29-B8	4.2.6	V3	-150 V	J41-D1	4.2.6	NOTES:			
K10	INTENSITY OUT	J45-F3	4.2.3	N8	STORAGE MESH	J41-C2	4.2.5	S6	6.3 VAC/-300 V REF NOTE X	J29-B7	4.2.6	V4	-	-	-				
L1	BRIGHT VECTOR INTENSITY	J45-D8	4.2.3	N9	COLLECTOR MESH LEVEL	J41-B3	4.2.5	S7	208 VAC #1	P21-3	4.2.6	V5	-30 V	J41-D2	4.2.6				
L2	DIM VECTOR INTENSITY	J45-D6	4.2.3	N10	DD INTENSITY GATE	J41-D5	4.2.5	S8	208 VAC #2	M1-1	4.2.6	V6	-	-	-				
L3	LIGHT GUN GATE	J42-A5	4.2.3-2	P1	DD FLOOD GUN BIAS	P38-8	4.2.5	S9	208 VAC #3	P30-1	4.2.6	V7	-	-	-				
L4	PASS LIGHT GUN GATE	J42-B1	4.2.3-2	P2	DD MATRIX	P38-1	4.2.5	S10	208 VAC NEUTRAL	M2-2	4.2.6	V8	-	-	-				
L5	LIGHT GUN TRIGGER	J42-F6	4.2.3-2	P3	PC #7A OR #8A SWITCHED	J57-3	4.2.6	T1	6.3 VAC/+90 V REF NOTE XV	J41-F8	4.2.6	V9	+10 V	J41-E1	4.2.6				
L6	LIGHT GUN AMP COUTPUT	J42-C2	4.2.3-2	P4	PC #7A OR #8A SWITCHED	J57-11	4.2.6	T2	6.3 VAC/+10 V REF NOTE XIV	J29-F8	4.2.6	V10	-	-	-				
L7	+600V	J42-C7	4.2.3-2	P5	PC #7B OR #8B SWITCHED	J57-6	4.2.6	T3	6.3 VAC/-30 V REF NOTE XIII	J41-C8	4.2.6	W1	-	-	-				
L8	6.3 VAC LIGHT GUN LAMP	J42-E6	4.2.3-2	P6	PC #7B OR #8B SWITCHED	J57-14	4.2.6	T4	6.3 VAC/-48 V REF NOTE XII	J29-C4	4.2.6	W2	GROUND	J37-W3	4.2.6				
L9	6.3 VAC LIGHT GUN LAMP	J42-B7	4.2.3-2	P7		-	-	T5	6.3 VAC/-150 V REF NOTE XI	J29-B4	4.2.6	W3	GROUND	J37-W4	4.2.6				
L10	-	-	-	P8	DEFLECTION COIL	E31-4	4.2.5	T6	6.3 VAC/-300 V REF NOTE X	J29-B6	4.2.6	W4	GROUND	J37-W5	4.2.6				





DD Timing & Control





- III FOR -48V POINT TO POINT WIRING SEE LOGIC 7.1.4
 XII CIRCUITRY PHYSICALLY LOCATED IN DUPLEX MAINTENANCE CONSOLE
 XI * INDICATES PIN NUMBERS CALLED OUT ON MORE THAN ONE DRAWING
 X FOR DISTRIBUTION BOX INFORMATION SEE MANUAL INDICATED

MANUAL	SYSTEM

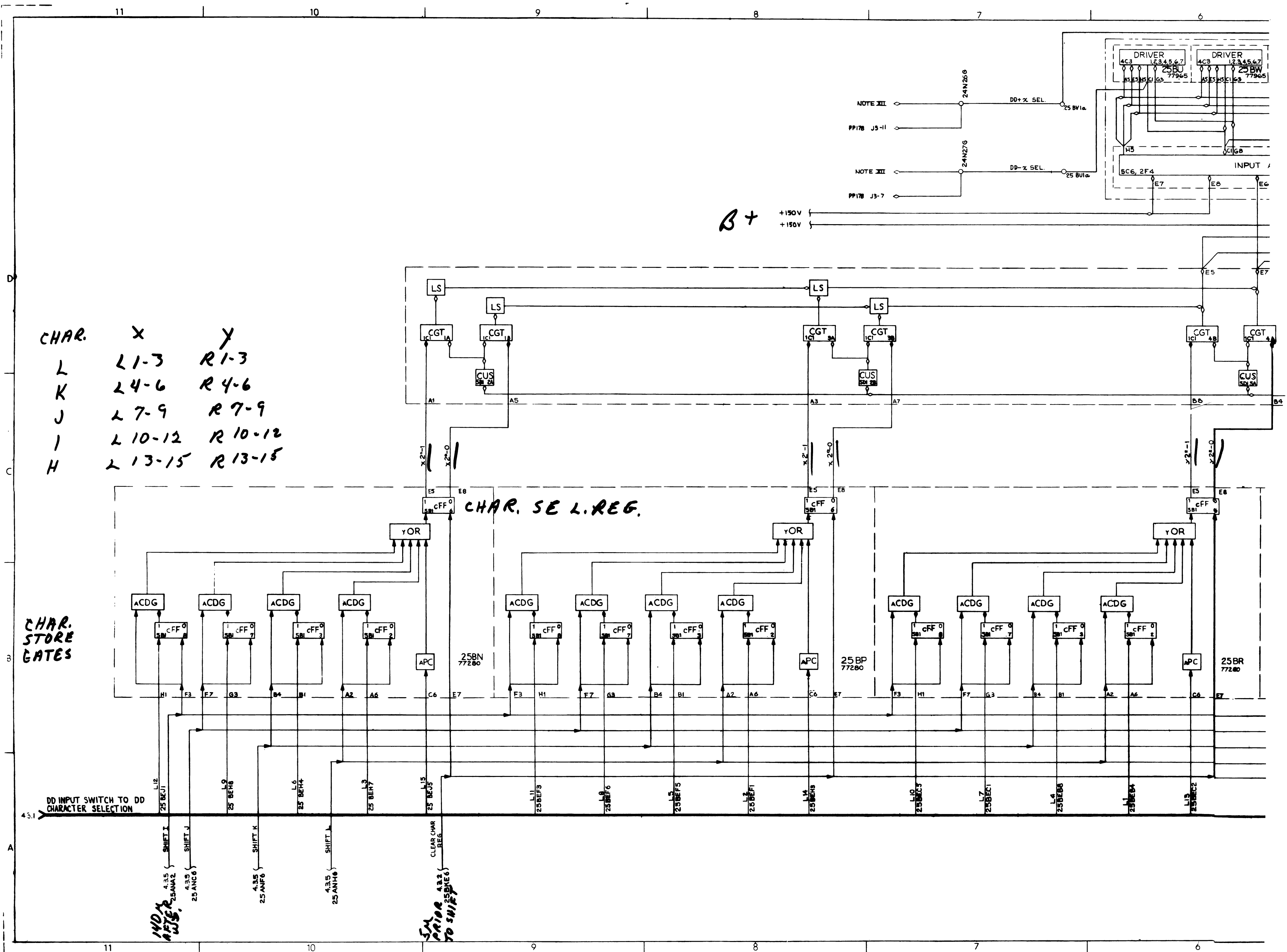
NOTES:

EC-79828
 3133874

CHAR.	X	Y
L	L1-3	R1-3
K	L4-6	R4-6
J	L7-9	R7-9
I	L10-12	R10-12
H	L13-15	R13-15

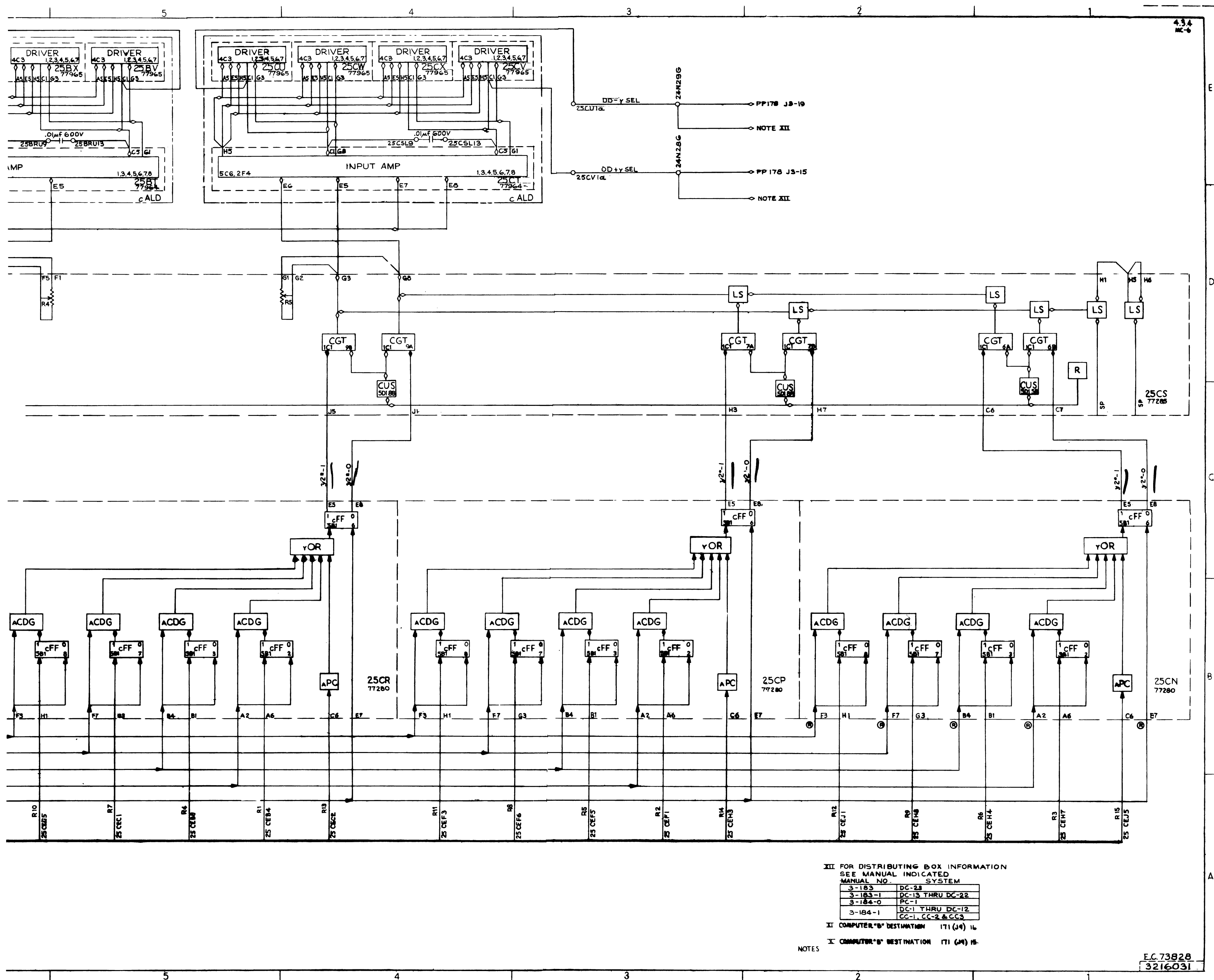
CHAR.
STORE
GATES

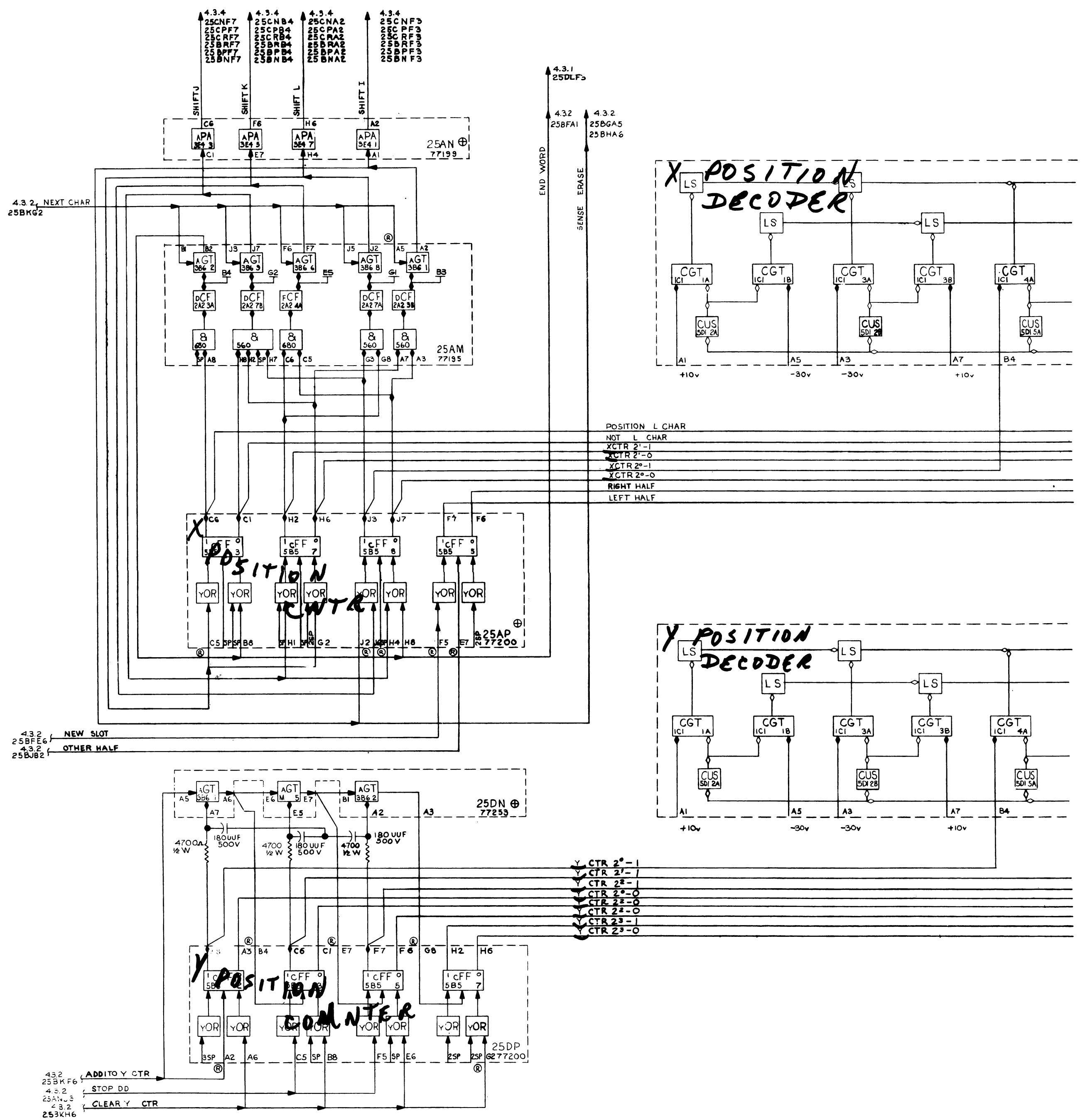
CHAR. SEL. REG.

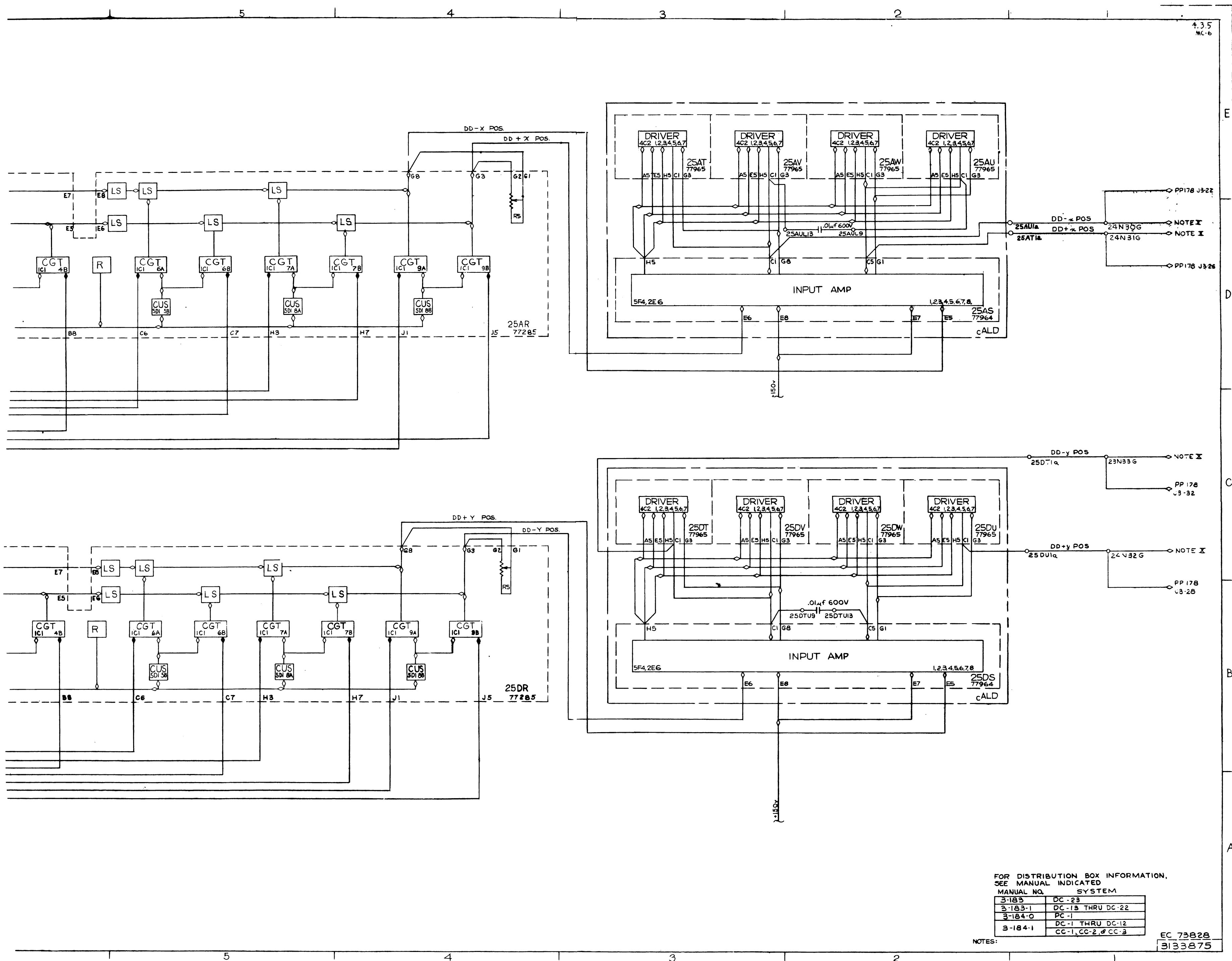


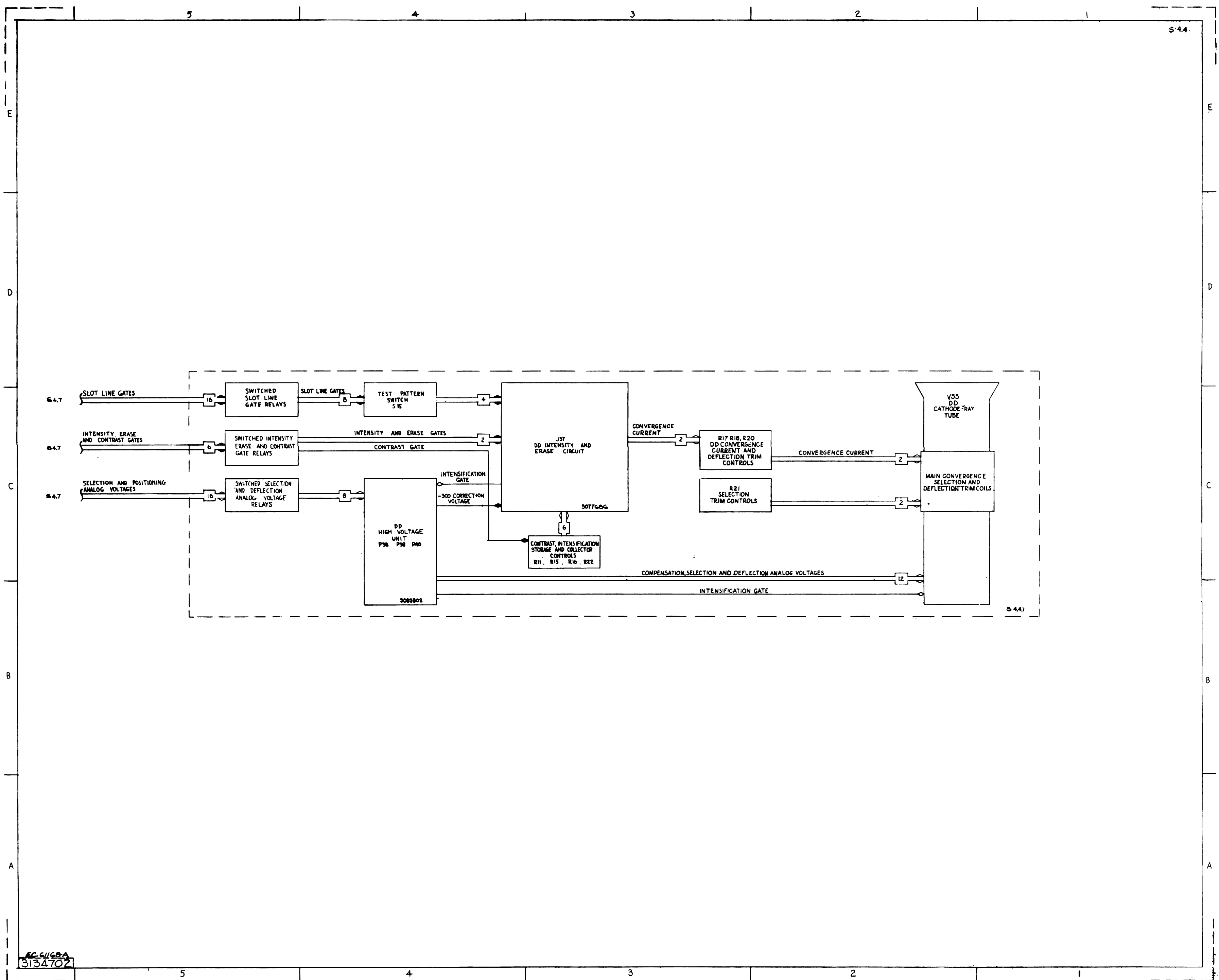
B+

+150V
+150V

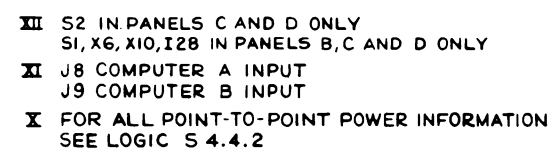








Auxiliary Console Block Diagram



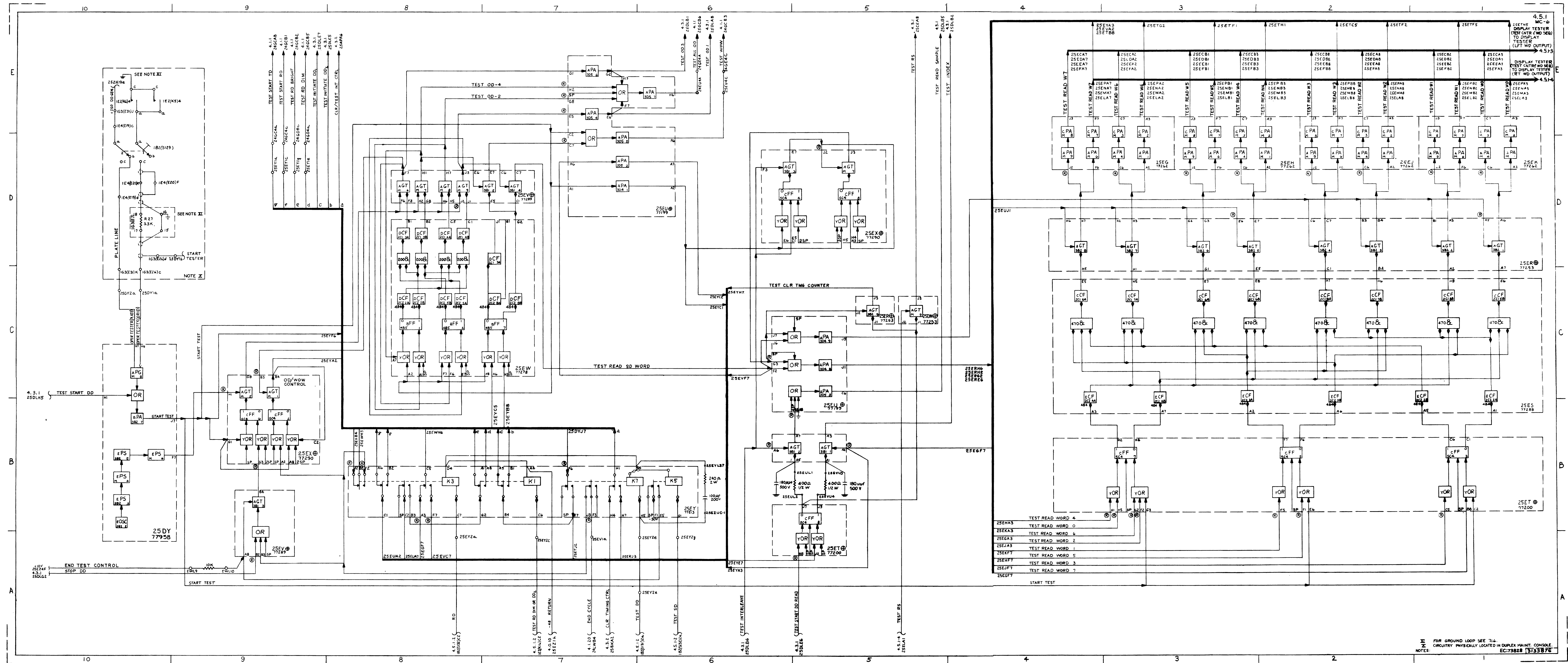


Auxiliary Console Power Distribution

	10	9	8	7	6	5	4	3	2	1	
A	○	○	○	○	○	○	○	○	○	○	A
B	○	○	○	○	○	○	○	○	○	○	B
C	○	○	○	○	○	○	○	○	○	○	C
D	○	○	○	○	○	○	○	○	○	○	D
E	○	○	○	○	○	○	○	○	○	○	E
F	○	○	○	○	○	○	○	○	○	○	F
G	○	○	○	○	○	○	○	○	○	○	G
H	○	○	○	○	○	○	○	○	○	○	H
J	○	○	○	○	○	○	○	○	○	○	J
K	○	○	○	○	○	○	○	○	○	○	K
	10	9	8	7	6	5	4	3	2	1	
L	○	○	○	○	○	○	○	○	○	○	L
M	○	○	○	○	○	○	○	○	○	○	M
N	○	○	○	○	○	○	○	○	○	○	N
P	○	○	○	○	○	○	○	○	○	○	P
R	○	○	○	○	○	○	○	○	○	○	R
S	○	○	○	○	○	○	○	○	○	○	S
T	○	○	○	○	○	○	○	○	○	○	T
U	○	○	○	○	○	○	○	○	○	○	U
V	○	○	○	○	○	○	○	○	○	○	V
W	○	○	○	○	○	○	○	○	○	○	W
	10	9	8	7	6	5	4	3	2	1	

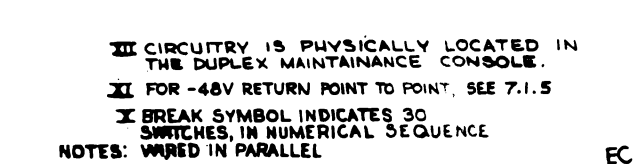
J24 TEST POINTS, AUX CONSOLE				Test Point	Signal/Voltage	Connects	Logic	Test Point	Signal/Voltage	Connects	Logic
Test Point	Signal/Voltage	Connects	Logic	D2	-	-	-	G1	-	-	-
A5	-	-	-	D3	-	-	-	G2	-	-	-
A6	-	-	-	D4	-	-	-	G3	-	-	-
A7	-	-	-	D5	-	-	-	G4	-	-	-
A8	-	-	-	D6	-	-	-	G5	-	-	-
A9	-	-	-	D7	-	-	-	G6	-	-	-
A10	-	-	-	D8	-	-	-	G7	-	-	-
B1	-	-	-	D9	-	-	-	G8	-	-	-
B2	-	-	-	D10	-	-	-	G9	-	-	-
B3	-	-	-	E1	-	-	-	G10	-	-	-
B4	-	-	-	E2	-	-	-	H1	-	-	-
B5	-	-	-	E3	-	-	-	H2	-	-	-
B6	-	-	-	E4	-	-	-	H3	-	-	-
B7	-	-	-	E5	-	-	-	H4	-	-	-
B8	-	-	-	E6	-	-	-	H4	-	-	-
B9	-	-	-	E7	-	-	-	H5	-	-	-
B10	-	-	-	E8	-	-	-	H6	-	-	-
C1	-	-	-	E9	-	-	-	H7	-	-	-
C2	-	-	-	E10	-	-	-	H8	-	-	-
C3	-	-	-	F1	-	-	-	H9	-	-	-
C4	-	-	-	F2	-	-	-	H10	-	-	-
C5	-	-	-	F3	-	-	-	J1	-	-	-
C6	-	-	-	F4	-	-	-	J2	-	-	-
C7	-	-	-	F5	-	-	-	J3	-	-	-
C8	-	-	-	F6	-	-	-	J4	-	-	-
C9	-	-	-	F7	-	-	-	J5	-	-	-
C10	-	-	-	F8	-	-	-	J6	-	-	-
D1	-	-	-	F9	-	-	-	J7	-	-	-
				F10	-	-	-				

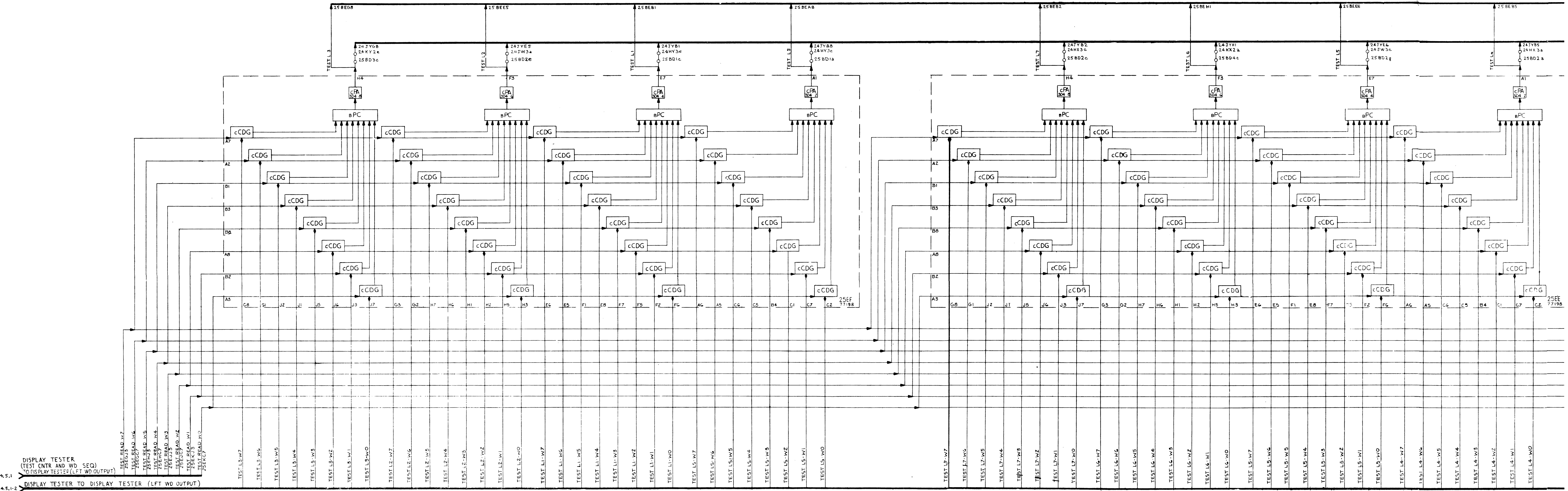
Test Point	Signal/Voltage	Connects	Logic	Test Point	Signal/Voltage	Connects	Logic	Test Point	Signal/Voltage	Connects	Logic	Test Point	Signal/Voltage	Connects	Logic	Test Point	Signal/Voltage	Connects	Logic
J8	-	-	-	M6	-	-	-	R4	120V AC NEUTRAL	T2-2	4.4.2	U2	+90V	J37-E2	4.4.2	W9	GROUND	J37-D4	
J9	-	-	-	M7	-	-	-	R5	PANEL LIGHT LINE	T2-3	4.4.2	U3	-	-	-	W10	-		
J10	-	-	-	M8	-	-	-	R6	PANEL LIGHT LINE	T2-7	4.4.2	U4	+150V	J37-E3	4.4.2		XI 6.3V AC between S1 and T1 +90V to ground W2		
K1	-	-	-	M9	-	-	-	R7	-	-	-	U5	-	-	-		X 6.3V AC between S3 and T3 -30V to ground W2		
K2	-	-	-	M10	-	-	-	R8	-	-	-	U6	+250V	J37-E4	4.4.2		NOTES:		
K3	-	-	-	N1	DD INTENSIFY GATE	J37-E7	4.4.1	R9	-	-	-	U7	-	-	-				
K4	-	-	-	N2	DD INTENSIFY SEL 2	J37-E8	4.4.1	R10	-	-	-	U8	-	-	-				
K5	-	-	-	N3	DD INTENSIFY SEL 1	J37-F5	4.4.1	S1	6.3V AC +90V REF NOTE XI	J37-F4 note a	4.4.2	U9	-	-	-				
K6	-	-	-	N4	DD ERASE GATE	J37-D8	4.4.1	S2	-	-	-	U10	-	-	-				
K7	-	-	-	N5	DD ERASE SEL 1	J37-E5	4.4.1	S3	6.3V AC -30V REF NOTE X	J37-C4 note b	4.4.2	V1	-300V	J37-C3	4.4.2				
K8	-	-	-	N6	DD ERASE SEL 1	J37-E6	4.4.1	S4	-	-	-	V2	-	-	-				
K9	-	-	-	N7	COLLECTOR MESH	J37-C1	4.4.1	S5	-	-	-	V3	-150V	J37-D1	4.4.2				
K10	-	-	-	N8	STORAGE MESH	J37-C2	4.4.1	S6	-	-	-	V4	-	-	-				
L1	-	-	-	N9	COLLECTOR MESH LEVEL	J37-B3	4.4.1	S7	208V AC Ø1	P21-3	4.4.2	V5	-30V	J37-D2	4.4.2				
L2	-	-	-	N10	DD INTENSIFY GATE	J37-D5	4.4.1	S8	208V AC Ø2	T3-3	4.4.2	V6	-	-	-				
L3	-	-	-	P1	DD FLOOD GUN BIAS	P38-8	4.4.1	S9	208V AC Ø3	P38-5	4.4.2	V7	-	-	-				
L4	-	-	-	P2	DD MATRIX	P38-1	4.4.1	S10	208V AC NEUTRAL	T3-1	4.4.2	V8	-	-	-				
L5	-	-	-	P3	-	-	-	T1	6.3V AC +90V REF NOTE XI	J37-F8 note a	4.4.2	V9	+10V	J37-E1	4.4.2				
L6	-	-	-	P4	-	-	-	T2	-	-	-	V10	-	-	-				
L7	-	-	-	P5	-	-	-	T3	6.3V AC -30V REF NOTE X	J37-C8 note b	4.4.2	W1	-	-	-				
L8	-	-	-	P6	-	-	-	T4	-	-	-	W2	GROUND	J24-W3	4.4.2				
L9	-	-	-	P7	-	-	-	T5	-	-	-	W3	GROUND	F24-W4	4.4.2				
L10	-	-	-	P8	DD TEST CONV REG	J37-A8	4.4.1	T6	-	-	-	W4	GROUND	F24-W5	4.4.2				
M1	-	-	-	P9	DD CONVERGENCE CURRENT	E31-2	4.4.1	T7	-	-	-	W5	GROUND	J24-W6	4.4.2				
M2	-	-	-	P10	DD CONVERGENCE CURRENT	J37-A1	4.4.1	T8	-	-	-	W6	GROUND	J24-W7	4.4.2				
M3	-	-	-	R1	-48V	J22-E6	4.4.2	T9	-	-	-	W7	GROUND	J24-W8	4.4.2				
M4	-	-	-	R2	-48V RETURN	J22-F7	4.4.2	T10	-	-	-	W8	GROUND	J24-W9	4.4.2				
M5	-	-	-	R3	120V AC	T2-1	4.4.2	U1	-	-	-								



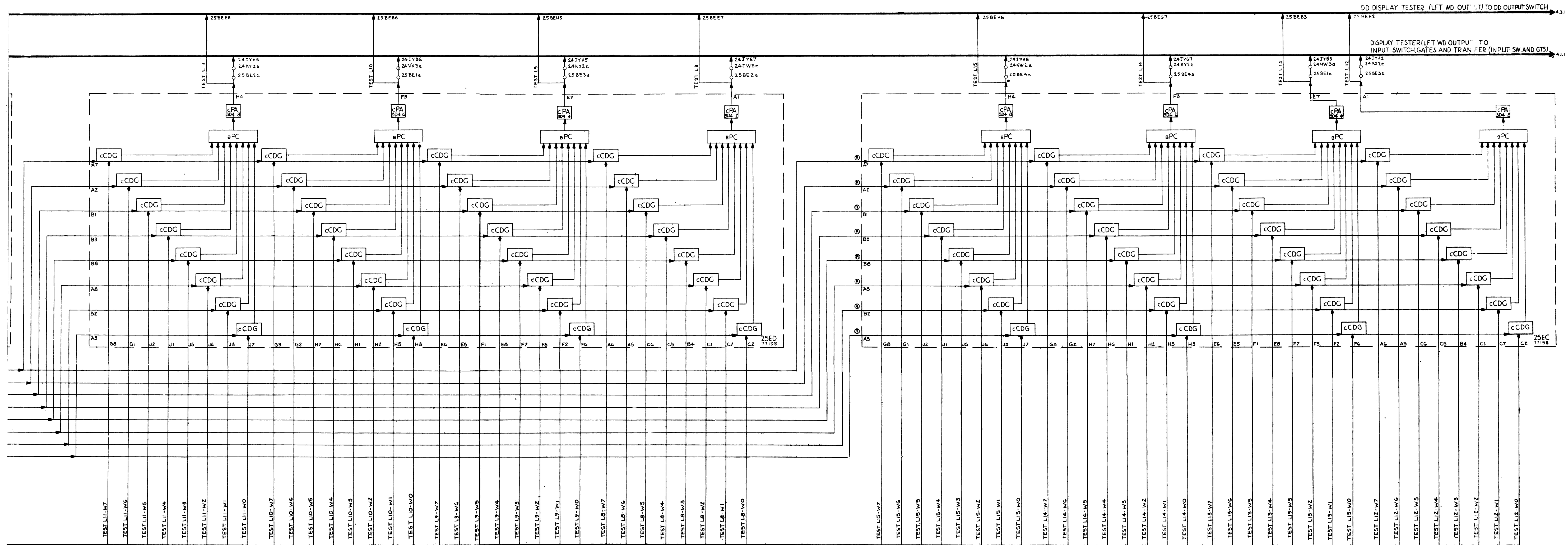
Display Tester (Test Control & Word Sequencer)

DESCRIPTION		FROM			TO	
TEST	LS- W6	SWITCH	EDGE CONN	EDGE CONN	PLUG UNIT	LOGIC DMS
		182(S11)2a2	183(E14)d	25EF1b	25EFA5	4.5 1-3
L1- ↑		182(S11)2a1	183(E14)f	25EF2b	25EF6E	↑
L2- ↑		182(S11)2a2	183(E14)f	25EF3b	25EF6E2	
L3- ↓		182(S11)1a1	183(E14)e	25EF4b	25EF6F1	
L4- ↓		182(S11)0a2	183(E14)d	25EE1b	25EEA5	
L5- ↓		182(S11)0a1	183(E14)c	25EE2E	25EEE5	
L6- ↓		182(S11)0a2	183(E14)c	25EE3b	25EEE2	
L7- ↓		182(S11)0a1	183(E14)c	25EE4a	25EEE1	
L8- ↓		182(S11)0a2	183(E13)f	25ED1b	25EDA5	
L9- ↓		182(S11)0a1	183(E13)c	25ED2b	25EDE5	
L10- ↓		182(S11)0a2	183(E13)f	25ED3b	25EDG2	
L11- ↓		182(S11)0a1	183(E13)e	25ED4b	25EDG1	
L12- ↓		182(S11)0a2	183(E13)d	25EC1b	25ECA5	
L13- ↓		182(S11)0a1	183(E13)c	25EC2b	25ECE5	
L14- ↓		182(S11)0a2	183(E13)b	25EC3b	25ECG2	
L15- ↓		182(S11)0a1	183(E13)a	25EC4b	25ECG1	4.5 1-3
R5- ↓		182(S11)0a2	15(E14)h	25EL1b	25ELA5	4.5 1-4
R1- ↓		182(S11)0a1	18(E14)g	25EL2b	25ELE5	
R2- ↓		182(S11)0a2	18(E14)f	25EL3b	25ELG2	
R3- ↓		182(S11)0a1	18(E14)e	25EL4b	25ELG1	
R4- ↓		182(S11)0a2	18(E14)d	25EM1b	25EMA5	
R5- ↓		182(S11)0a1	18(E14)c	25EM2b	25EMG2	
R6- ↓		182(S11)0a2	18(E14)b	25EM3b	25EMG1	
R7- ↓		182(S11)0a1	18(E14)a	25EN4b	25EN51	
R8- ↓		182(S11)0a2	18(E13)f	25EN1b	25EN5A	
R9- ↓		182(S11)0a1	18(E13)f	25EN2b	25EN5E	
R10- ↓		182(S11)0a2	18(E13)f	25EN3b	25EN52	
R11- ↓		182(S11)0a1	18(E13)e	25EN4b	25EN51	
R12- ↓		182(S11)0a2	18(E13)d	25EP1b	25EPA5	
R13- ↓		182(S11)0a1	18(E13)c	25EP2b	25EP5E	
R14- ↓		182(S11)0a2	18(E13)b	25EP3b	25EPG2	↓
L5- W6		182(S11)0a1	18(E13)a	25EP4b	25EPG1	4.5 1-4
L5- W7		182(S11)2a2	183(E16)h	25EF1a	25EFA6	4.5 1-3
L1- ↑		182(S11)2a1	183(E16)g	25EF2a	25FE6E	
L2- ↑		182(S11)2a2	183(E16)f	25EF3a	25FE6E5	
L3- ↑		182(S11)2a1	183(E16)e	25EF4a	25FE6E8	
L4- ↑		182(S11)2a2	183(E16)d	25EE1a	25EEA6	
L5- ↑		182(S11)2a1	183(E16)c	25EE2a	25EEE6	
L6- ↑		182(S11)2a2	183(E16)b	25EE3a	25EEG3	
L7- ↑		182(S11)2a1	183(E16)a	25EE4a	25EEG6	
L8- ↑		182(S11)2a2	183(E15)h	25ED1a	25EDA6	
L9- ↑		182(S11)2a1	183(E15)g	25ED2a	25EDG6	
L10- ↑		182(S11)2a2	183(E15)f	25ED3a	25EDG3	
L11- ↑		182(S11)2a1	183(E15)e	25ED4a	25EDG8	
L12- ↑		182(S11)2a2	183(E15)d	25EC1a	25ECA6	
L13- ↑		182(S11)2a1	183(E15)c	25EC2a	25CEG6	
L14- ↑		182(S11)2a2	183(E15)b	25EC3a	25CEG3	↓
L15- ↑		182(S11)2a1	183(E15)a	25EC4a	25CEG1	4.5 1-3
R5- ↑		182(S11)2a2	18(E16)h	25EL1a	25ELA6	4.5 1-4
R1- ↑		182(S11)2a1	18(E16)g	25EL2a	25ELE6	↑
R2- ↑		182(S11)2a2	18(E16)f	25EL3a	25ELG3	
R3- ↑		182(S11)2a1	18(E16)e	25EL4a	25ELG6	
R4- ↑		182(S11)2a2	18(E16)d	25EM1a	25EMA6	
R5- ↑		182(S11)2a1	18(E16)c	25EM2a	25EMG6	
R6- ↑		182(S11)2a2	18(E16)b	25EM3a	25EMG3	
R7- ↑		182(S11)2a1	18(E16)a	25EM4a	25EMG8	
R8- ↑		182(S11)2a2	18(E15)h	25EN1a	25ENAG	
R9- ↑		182(S11)2a1	18(E15)g	25EN2a	25ENEG	
R10- ↑		182(S11)2a2	18(E15)f	25EN3a	25ENGG	
R11- ↑		182(S11)2a1	18(E15)e	25EN4a	25ENAG	
R12- ↑		182(S11)2a2	18(E15)d	25EP1a	25EPAG	
R13- ↑		182(S11)2a1	18(E15)c	25EP2a	25EPEG	
R14- ↑		182(S11)2a2	18(E15)b	25EP3a	25EPG3	
R15- ↑		182(S11)2a1	18(E15)a	25EP4a	25EPG8	4.5 1-4



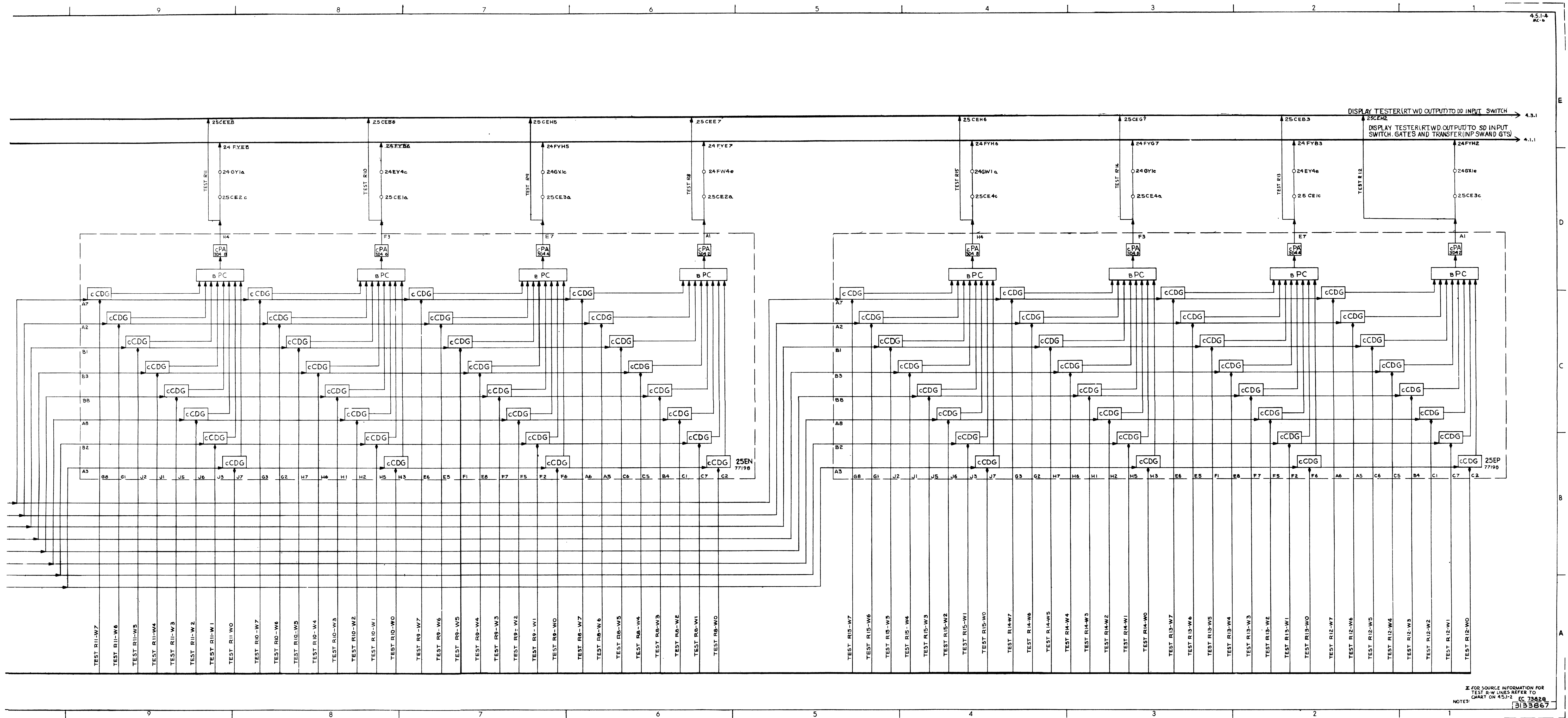


4.5.1 DISPLAY TESTER (TEST CNTR AND WD. SEQ.)
4.5.1-2 DISPLAY TESTER TO DISPLAY TESTER (LFT WD OUTPUT)

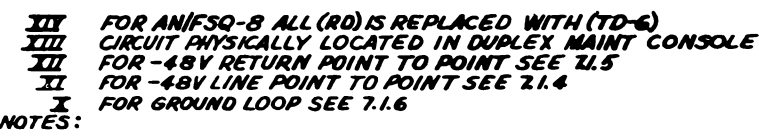


FOR SOURCE INFORMATION FOR TEST L-W
LINES: REFER TO CHART ON 4.5.1-2
NOTES:



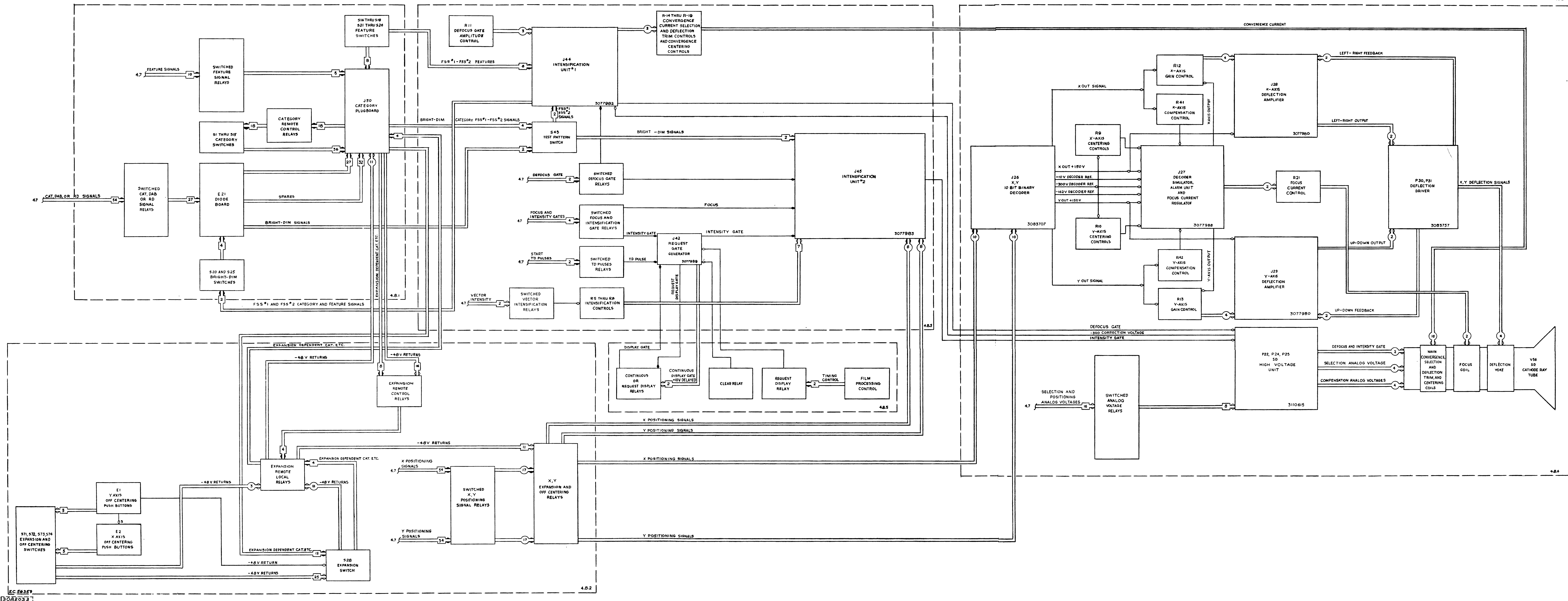


Display Tester (Right WD Output)

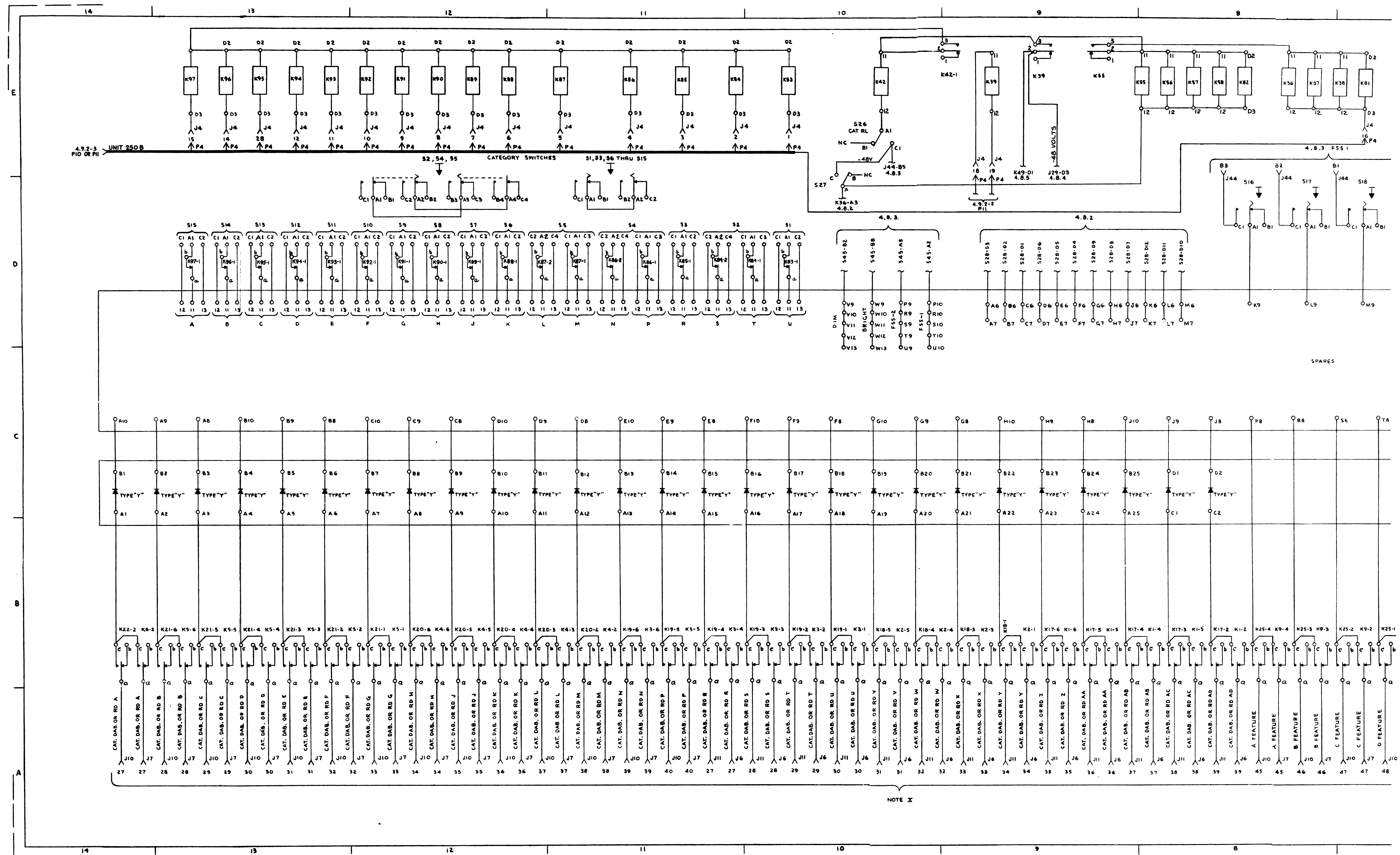


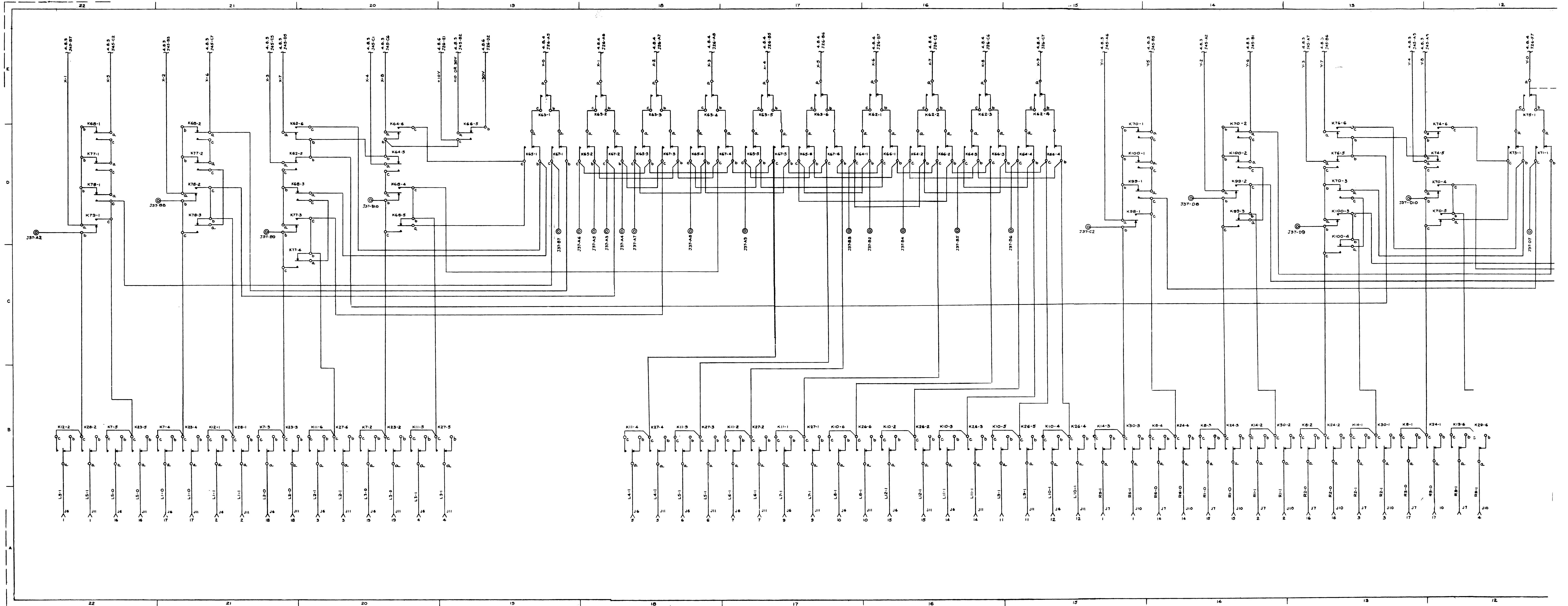
32

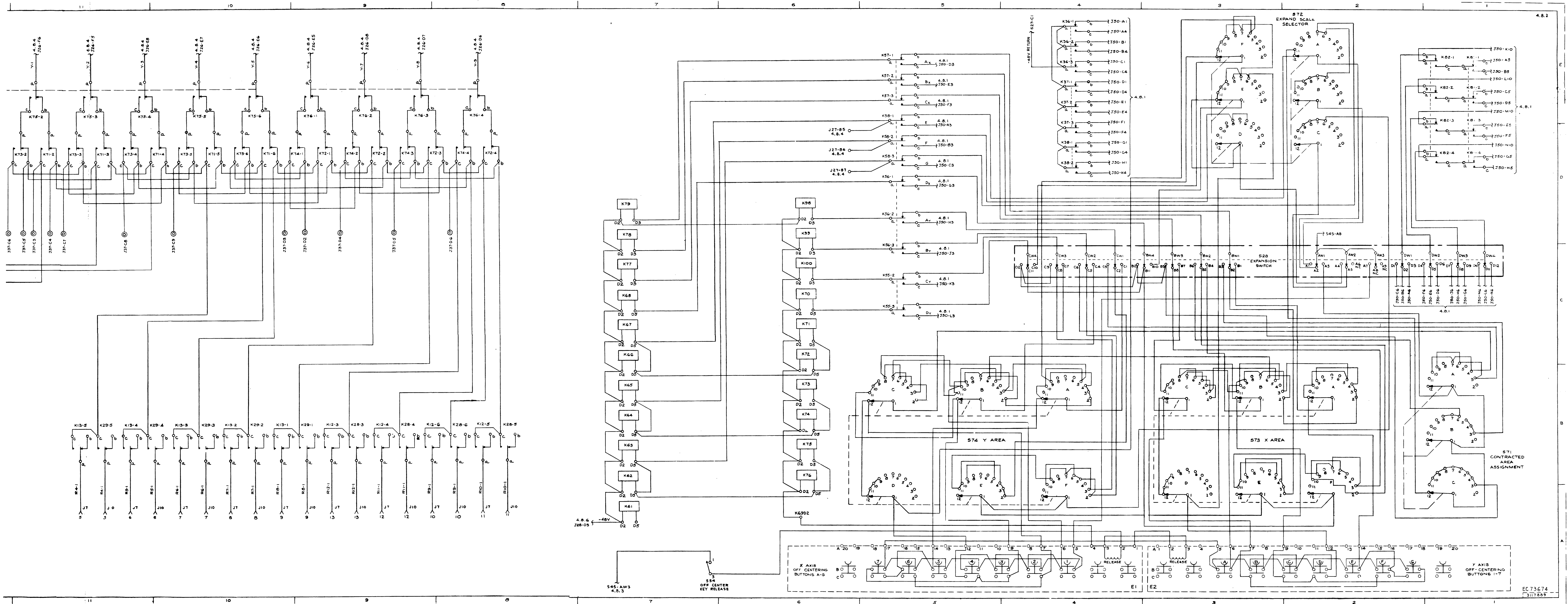
SD Camera Control

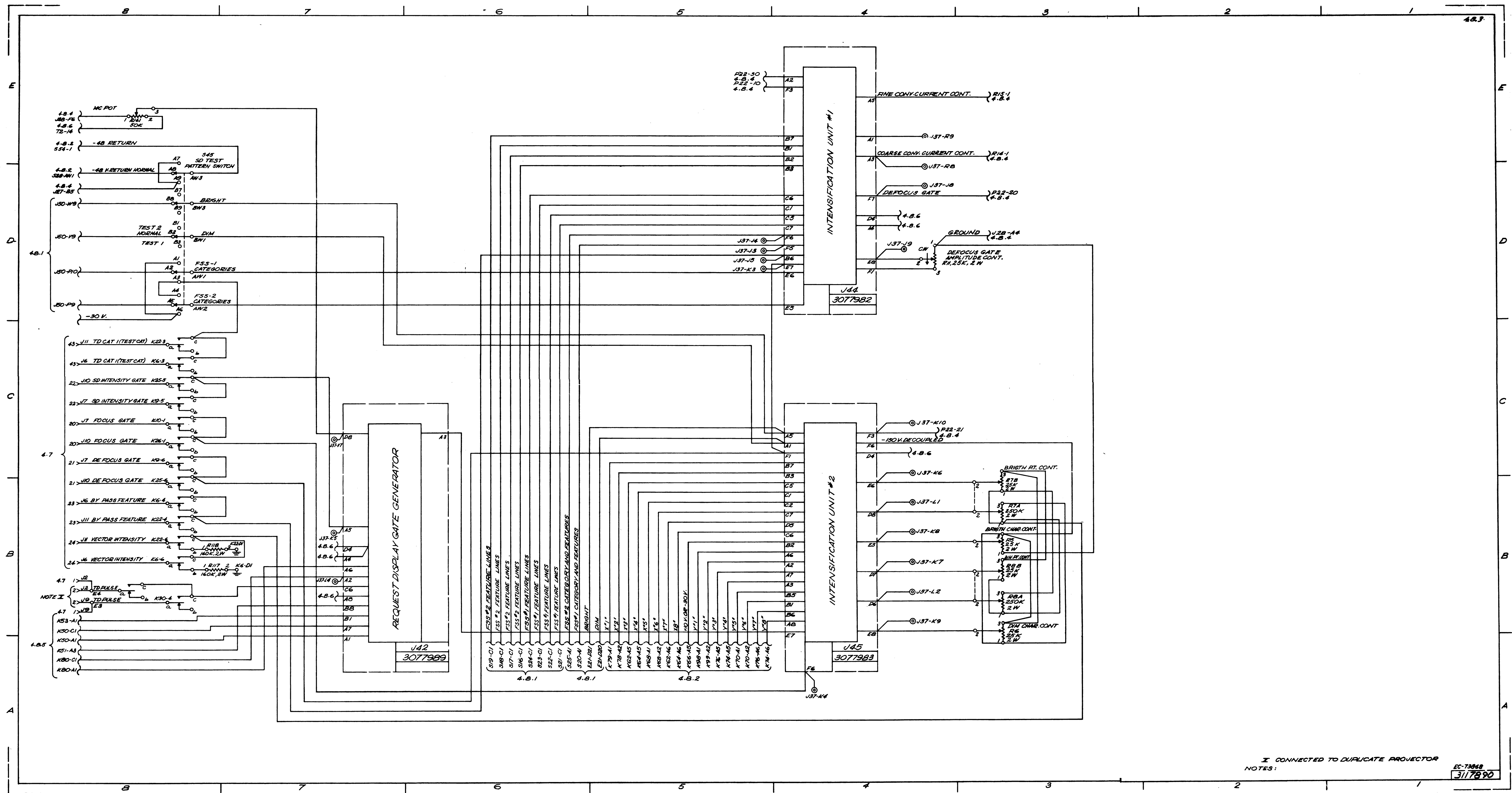


Projection System Block Diagram



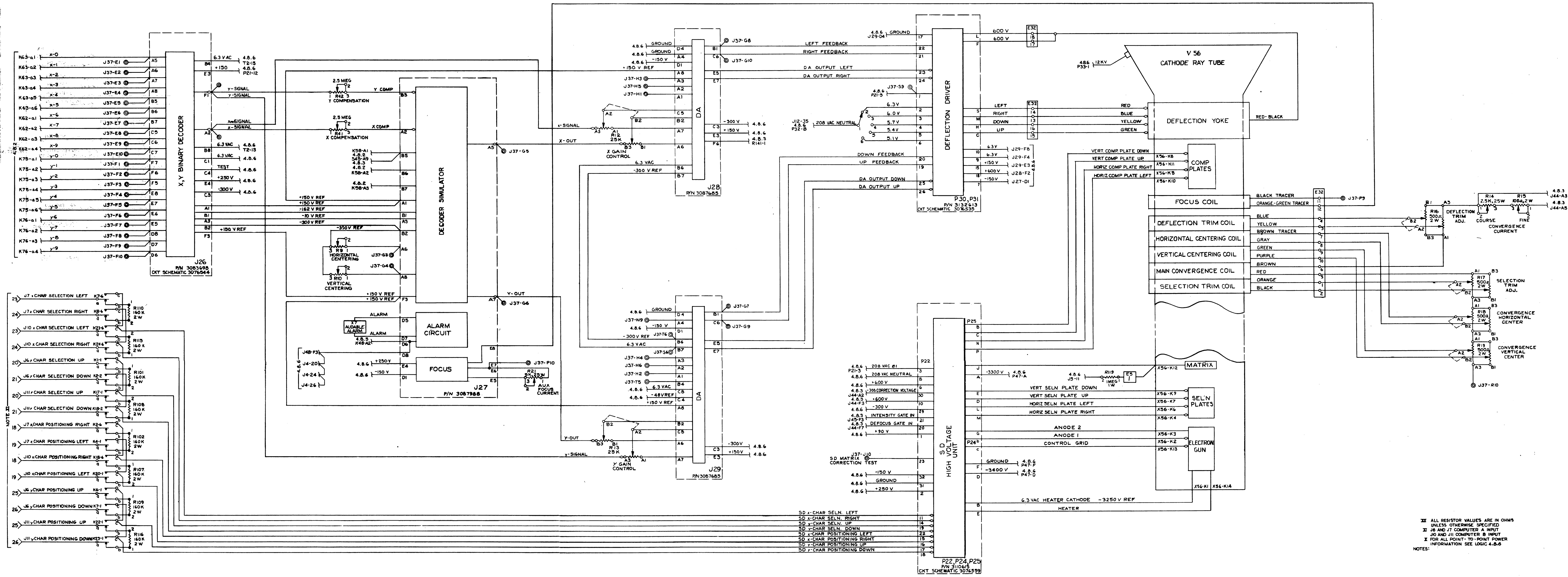




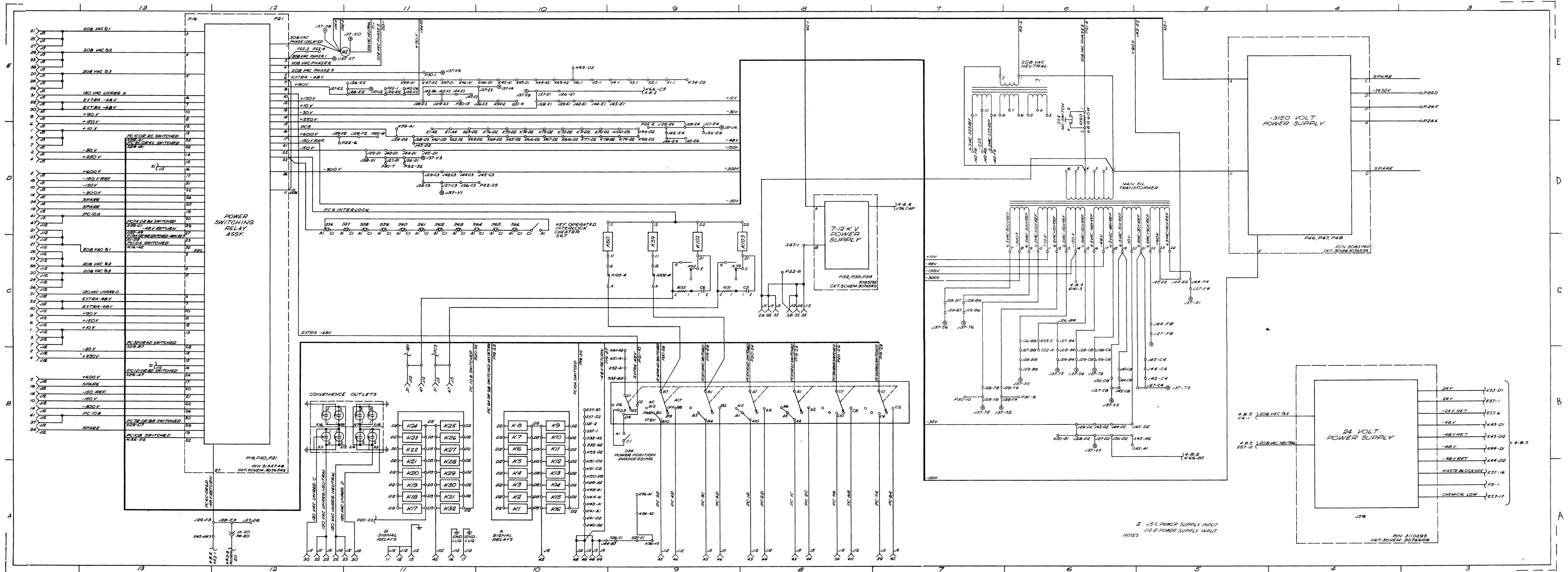


NOTES:
 1. CONNECTED TO DUPLICATE PROJECTOR

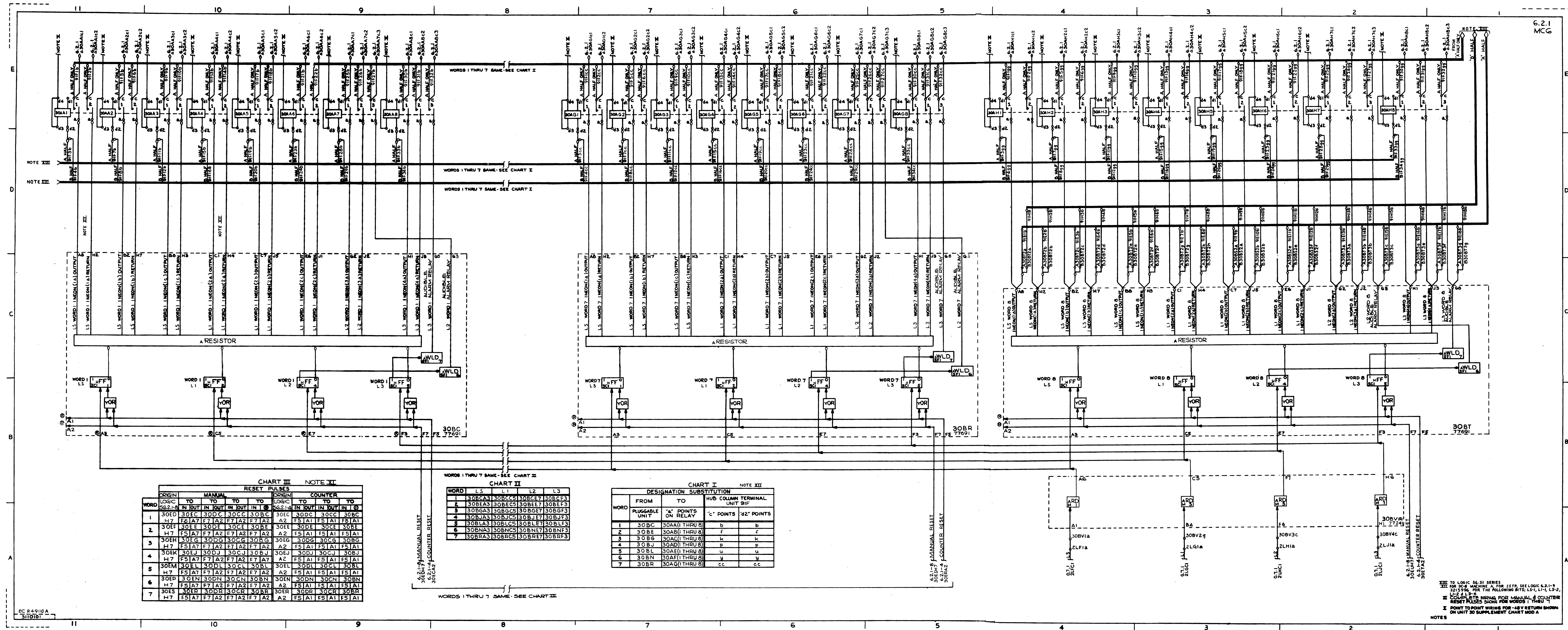
EC-73068
 3/17/89

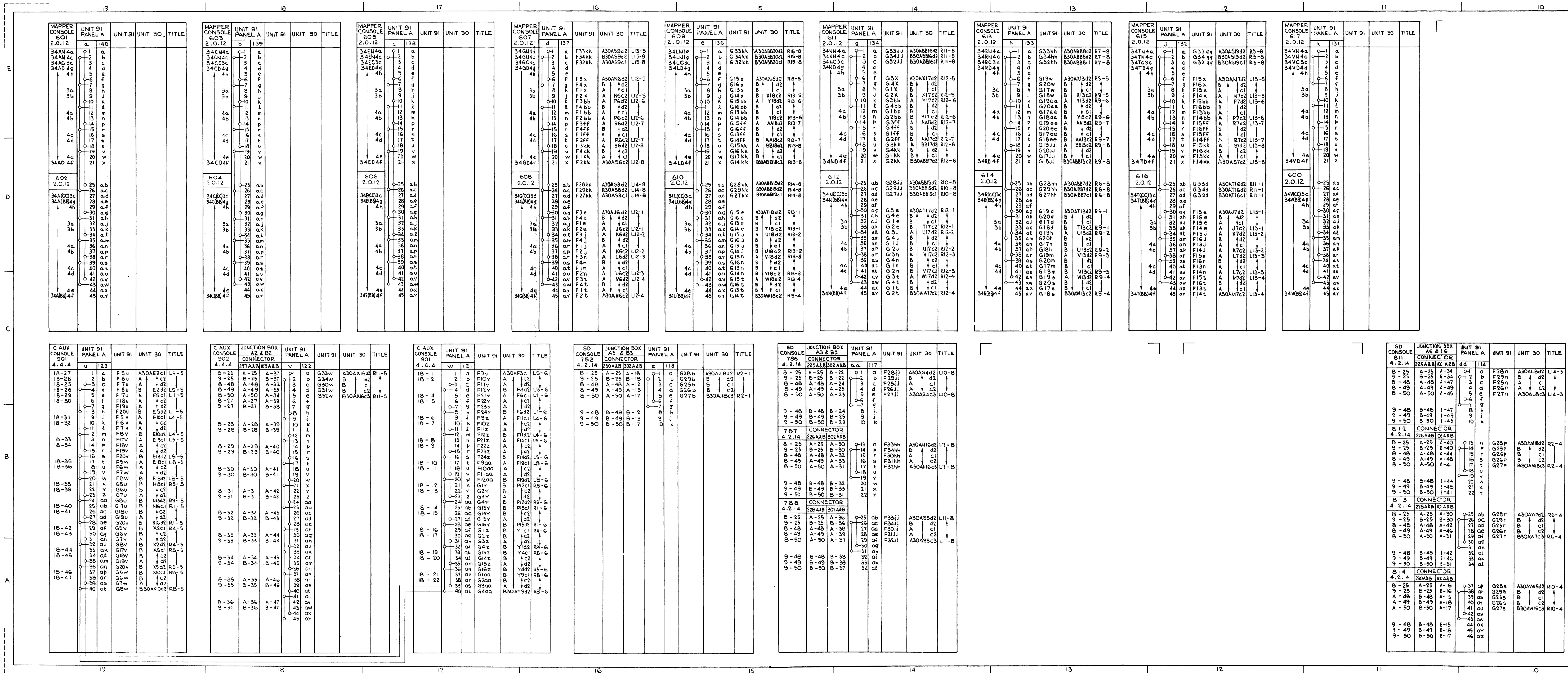


III ALL RESISTOR VALUES ARE IN OHMS
 UNLESS OTHERWISE SPECIFIED
 II J6 AND J7 COMPUTER A INPUT
 I J6 AND J7 COMPUTER B INPUT
 I FOR ALL POINT-TO-POINT POWER
 INFORMATION SEE LOGIC 4.8.0



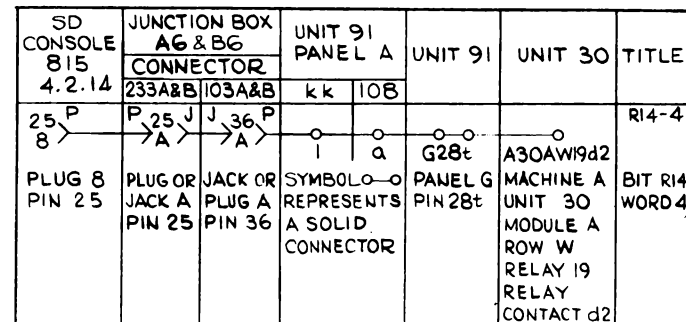
Projection System Power Distribution





C. AUX CONSOLE 901	JUNCTION BOX A2 & B2 CONNECTOR	UNIT 91 PANEL A	UNIT 91	UNIT 30	TITLE
8-38	A-38	A-20	1 a	A30AD2C1	LS-4
9-38	B-38	B-20	2 b	A 1	C2
8-26	A-26	A-19	3 c	A 1	D2
9-26	B-26	B-19	4 d	B D2R2	LS-4
8-39	A-39	A-21	5 e	A 1	D5C1
9-39	B-39	B-21	6 f	A 1	C2
			7 g	A 1	D2
			8 h	B D5R2	LI-4
8-40	A-40	A-24	9 i	A 1	D1OC1
9-40	B-40	B-24	10 j	A 1	L4-4
			11 k	A 1	C2
8-41	A-41	A-25	12 l	B D1D2	L4-4
9-41	B-41	B-25	13 m	D1C1	LS-4
			14 n	A 1	D2
			15 p	B D1C1	L4-4
8-42	A-42	A-26	16 q	A 1	D2
9-42	B-42	B-26	17 r	B D1C1	LS-4
			18 u	A 1	C2
			19 v	A 1	D2
			20 w	B D1D2	L8-4
8-43	A-43	A-27	21 x	M1C1	RS-4
9-43	B-43	B-27	22 y	A 1	D2
			23 z	B D1D2	L8-4
			24 aa	M1D2	RS-4
8-44	A-44	A-28	25 ab	M6C1	RI-4
9-44	B-44	B-28	26 ac	A 1	D2
			27 ad	A 1	D2
			28 ae	G20P	
8-45	A-45	A-29	29 af	G18P	
9-45	B-45	B-29	30 ag	G67	
			31 ah	A 1	D2
			32 ai	G87	
8-46	A-46	A-32	33 aj	B D1C1	
9-46	B-46	B-32	34 ak	G18P	
			35 am	G19P	
8-47	A-47	A-33	36 an	G20P	
9-47	B-47	B-33	37 ao	G66	
			38 ar	G85	
			39 at	B30A/W1D2	RS-4

5D CONSOLE 815	JUNCTION BOX A6 & B6 CONNECTOR	UNIT 91 PANEL A	UNIT 91	UNIT 30	TITLE
4. 2. 14	233A&B 103A&B	KK	108		
B - 25	A - 25	A - 36		G28E	A30AW194Z
9 - 25	B - 25	B - 36	1	B	↑
B - 48	A - 48	A - 39	2	B	↑
B - 49	A - 49	A - 43	3	B	↑
B - 50	A - 50	A - 37	4	B	↑
			5	B	↑
			6	B30AW193C	R14 - 4
			7		
9 - 48	B - 48	B - 39	8		
9 - 49	B - 49	B - 43	9		
9 - 50	B - 50	B - 37	10		
7. 9. 2	CONNECTOR				
4. 2. 14	227A&B 102A&B				
B - 25	A - 25	A - 34	1	F28E	A30AMBd2
9 - 25	B - 25	B - 34	2	F29L	↑
B - 48	A - 48	A - 39	3	F25L	↑
B - 49	A - 49	A - 40	4	F26E	↑
B - 50	A - 50	A - 31	5	F27E	↑
			6		↑
			7		↑
			8		↑
			9		↑
9 - 48	B - 48	B - 39	10		
9 - 49	B - 49	B - 40	21		
9 - 50	B - 50	B - 31	22		



X
NOTES:

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