



FLOATING POINT
SYSTEMS, INC.

PROPRIETARY
INFORMATION

ARRAY PROCESSOR SCHEMATICS

CUSTOMER NAME *G.E. Med. System W/ # 764*
Schematics

SERIAL # _____

NAME OF HOST COMPUTER *RDCP*
Book 1 of 2

NOTICE

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This document contains schematics, topologies, power supplies, wiring diagrams, etc.

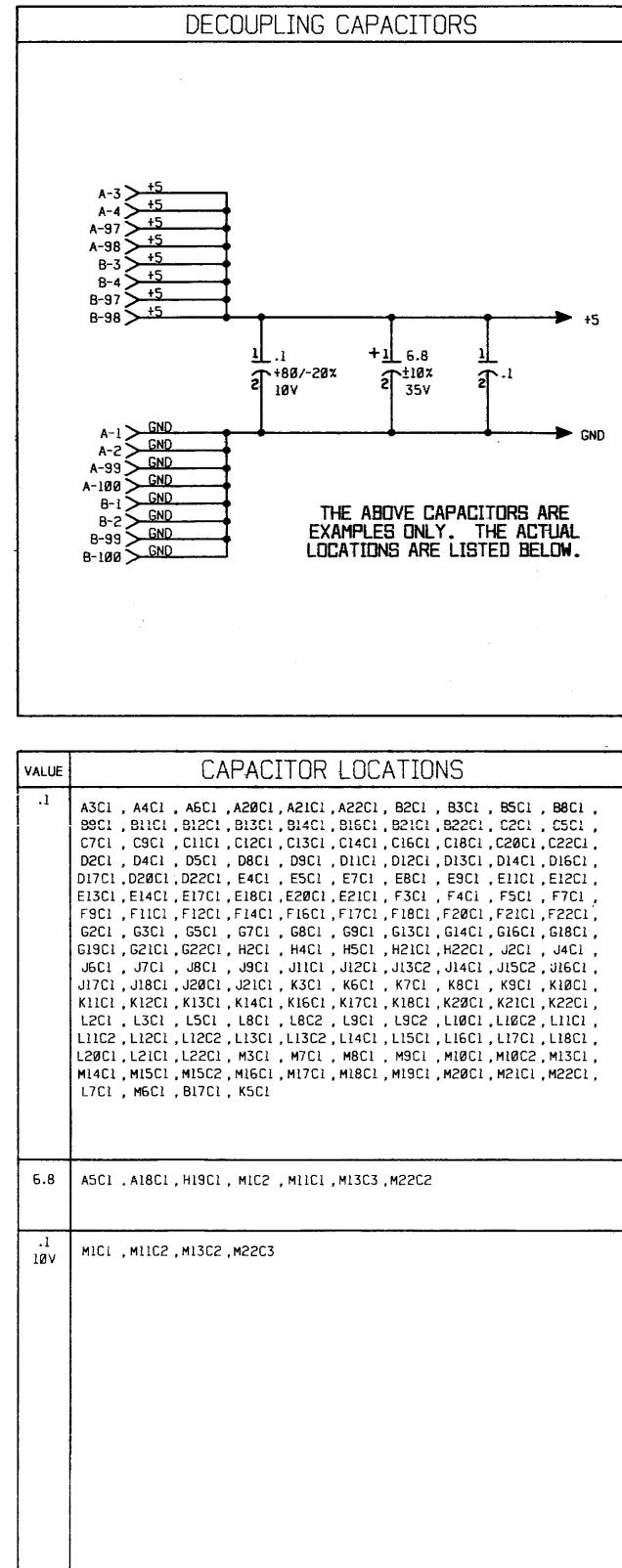
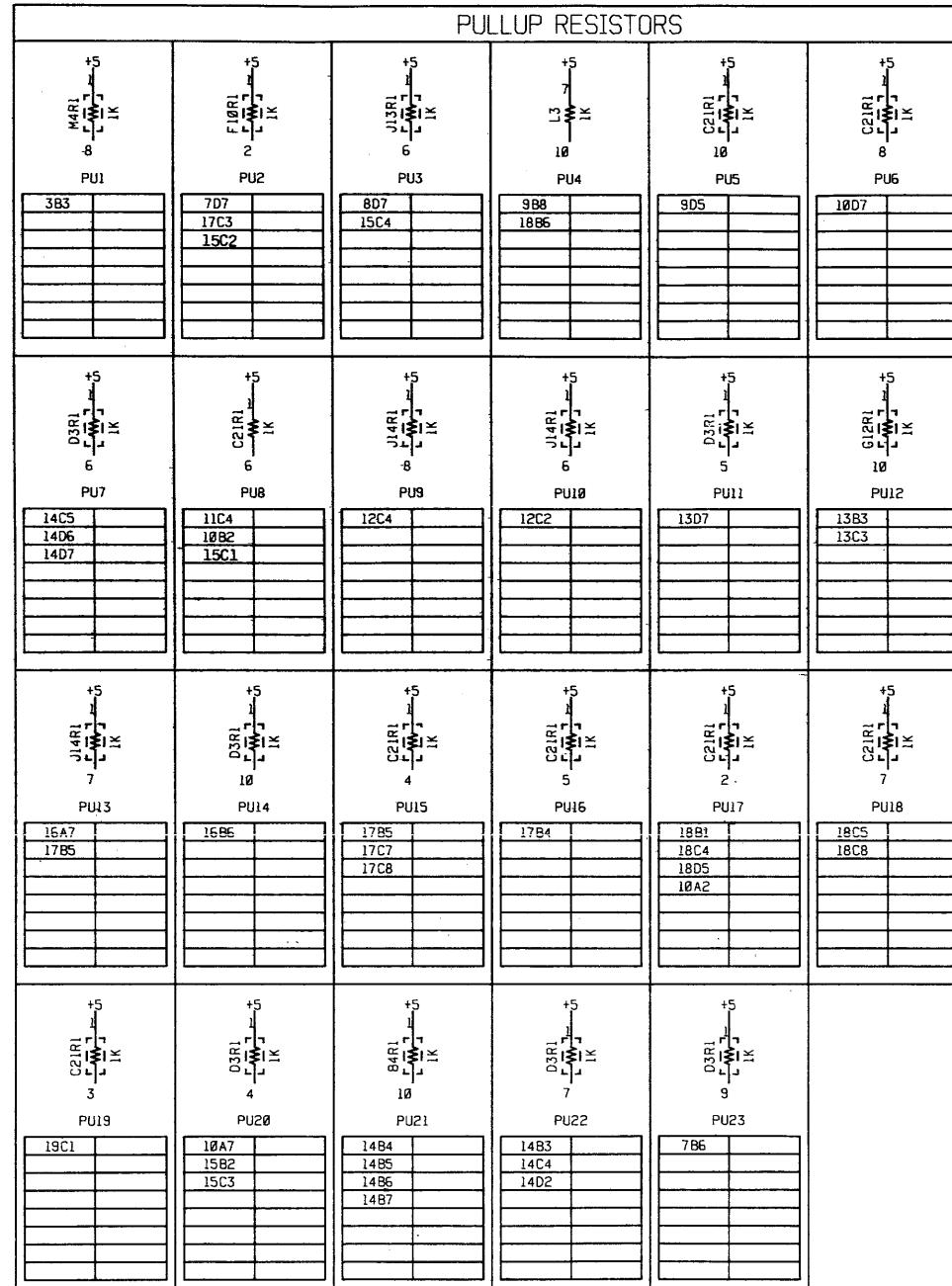
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NOTE: UNLESS OTHERWISE SPECIFIED

1. ALL RESISTOR VALUES ARE IN OHMS.
DISCRETE RESISTORS ARE $\pm 5\%$, 1/4W.
SIPS ARE $\pm 2\%$, .1W.
DIPS ARE $\pm 2\%$, 1/4W.
2. ALL CAPACITOR VALUES ARE IN MICROFARADS,
 $+80\% -20\%$, 50V.
3. PULLUP RESISTORS ARE INDICATED BY THE SYMBOL  AT APPROPRIATE LOCATIONS IN THE SCHEMATIC.
THESE LOCATIONS ARE CALLED OUT ON SHEET ONE
BY SHEET/ZONE.
4. ALL POSSIBLE CAPACITOR LOCATIONS ARE
LISTED. FOR ACTUAL CAPACITOR COUNT AND
LOCATION INFORMATION, SEE THE ASSEMBLY
DRAWING.
5. NUMBERS IN PARENTHESES ON THE BLOCK DIAGRAM
(SHEET 21) REFER TO SCHEMATIC SHEET NUMBERS.
6. IC POWER PINS ARE:

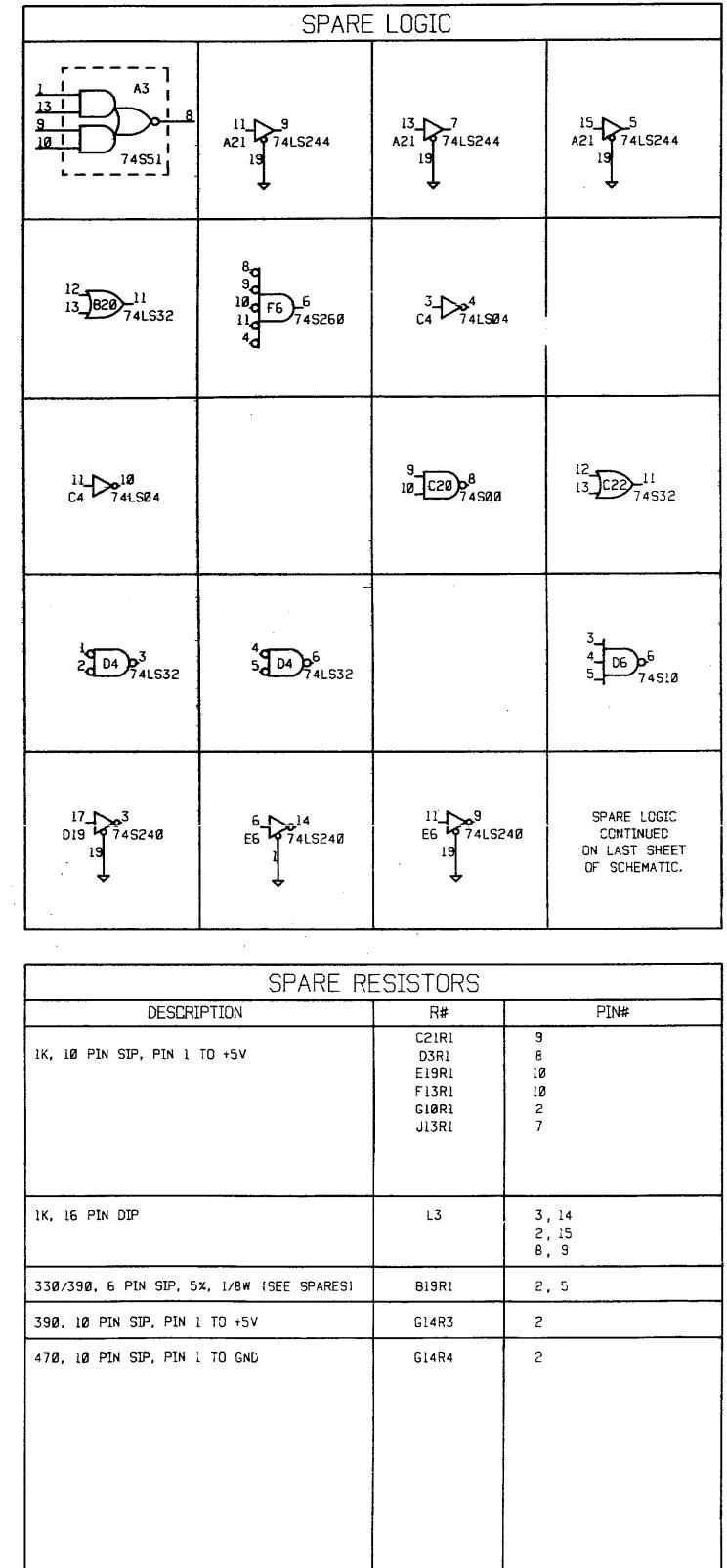
IC TYPE	TOTAL PINS	+5V	GND
ALL	8	8	4
ALL	14	14	7
ALL	16	16	8
ALL	20	20	10
ALL	24	24	12
ALL	48	18	30

 SCHEMATIC SHOWS ALL ETC STRAPS. FOR ACTUAL
STRAPPING, REFER TO ASSEMBLY DRAWING.



CAPACITOR LOCATIONS

VALUE	LOCATIONS
.1	A3C1 , A4C1 , A6C1 , A20C1 , A21C1 , A22C1 , B2C1 , B3C1 , B5C1 , B8C1 , B9C1 , B11C1 , B12C1 , B13C1 , B14C1 , B16C1 , B21C1 , B22C1 , C2C1 , C5C1 , C7C1 , C8C1 , C11C1 , C12C1 , C13C1 , C14C1 , C16C1 , C18C1 , C20C1 , C22C1 , D2C1 , D4C1 , D5C1 , D8C1 , D11C1 , D12C1 , D13C1 , D14C1 , D16C1 , D17C1 , D20C1 , D22C1 , E4C1 , E5C1 , E7C1 , E8C1 , E9C1 , E11C1 , E12C1 , E13C1 , E14C1 , E17C1 , E18C1 , E20C1 , E21C1 , F3C1 , F4C1 , F5C1 , F7C1 , F9C1 , F11C1 , F12C1 , F14C1 , F16C1 , F17C1 , F18C1 , F20C1 , F21C1 , F22C1 , G2C1 , G3C1 , G5C1 , G7C1 , G8C1 , G9C1 , G13C1 , G14C1 , G16C1 , G18C1 , G19C1 , G21C1 , G22C1 , H2C1 , H4C1 , H5C1 , H21C1 , H22C1 , J2C1 , J4C1 , J6C1 , J7C1 , J8C1 , J9C1 , J11C1 , J12C1 , J13C2 , J14C1 , J15C2 , J16C1 , J17C1 , J18C1 , J20C1 , J21C1 , K3C1 , K6C1 , K7C1 , K8C1 , K9C1 , K10C1 , K11C1 , K12C1 , K13C1 , K14C1 , K16C1 , K17C1 , K18C1 , K20C1 , K21C1 , K22C1 , L2C1 , L3C1 , L5C1 , L8C1 , L8C2 , L9C1 , L9C2 , L10C1 , L10C2 , L11C1 , L11C2 , L12C1 , L12C2 , L13C1 , L13C2 , L14C1 , L15C1 , L16C1 , L17C1 , L18C1 , L20C1 , L21C1 , L22C1 , M3C1 , M7C1 , M8C1 , M9C1 , M10C1 , M10C2 , M13C1 , M14C1 , M15C1 , M15C2 , M16C1 , M17C1 , M18C1 , M19C1 , M20C1 , M21C1 , M22C1 , L7C1 , M6C1 , B17C1 , K5C1
6.8	A5C1 , A18C1 , H19C1 , M1C2 , M11C1 , M13C3 , M22C2
.1 10V	M1C1 , M11C2 , M13C2 , M22C3



SPARE RESISTORS

DESCRIPTION	R#	PIN#
IK, 10 PIN SIP, PIN 1 TO +5V	C2R1 D3R1 E19R1 F13R1 G10R1 J13R1	9 8 10 10 2 7
IK, 16 PIN DIP	L3	3, 14 2, 15 8, 9
330/390, 6 PIN SIP, 5%, 1/8W (SEE SPARES)	B19R1	2, 5
390, 10 PIN SIP, PIN 1 TO +5V	G14R3	2
470, 10 PIN SIP, PIN 1 TO GND	G14R4	2

REVISIONS					
REV.	AUTH.	DESCRIPTION	ZONE	AVPD / DATE	CHK. / DATE
01	ECO 83380	ADD C20, SHT 13; LEVEL 2 RELEASE		3-4-83	3-4-83

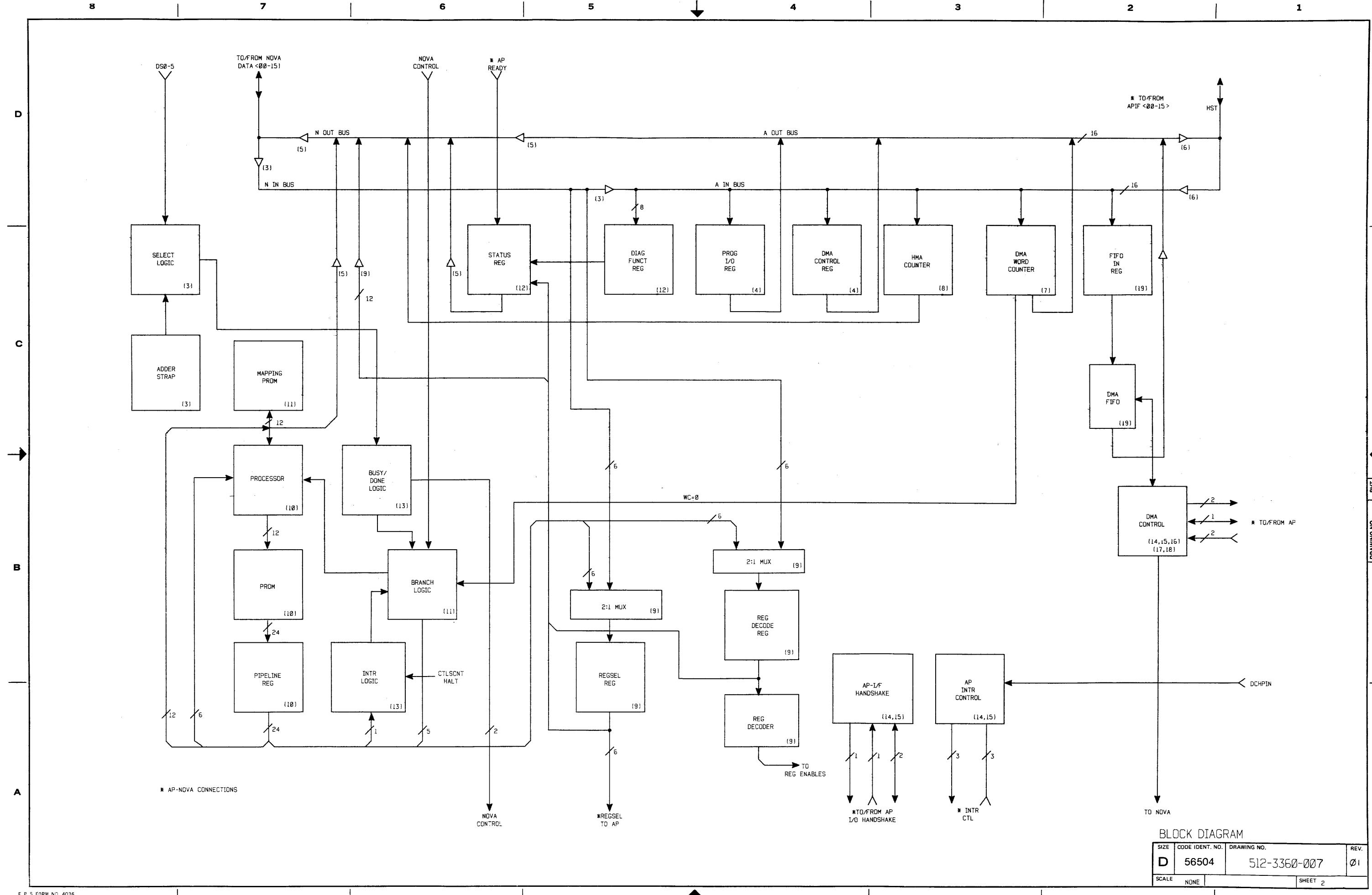
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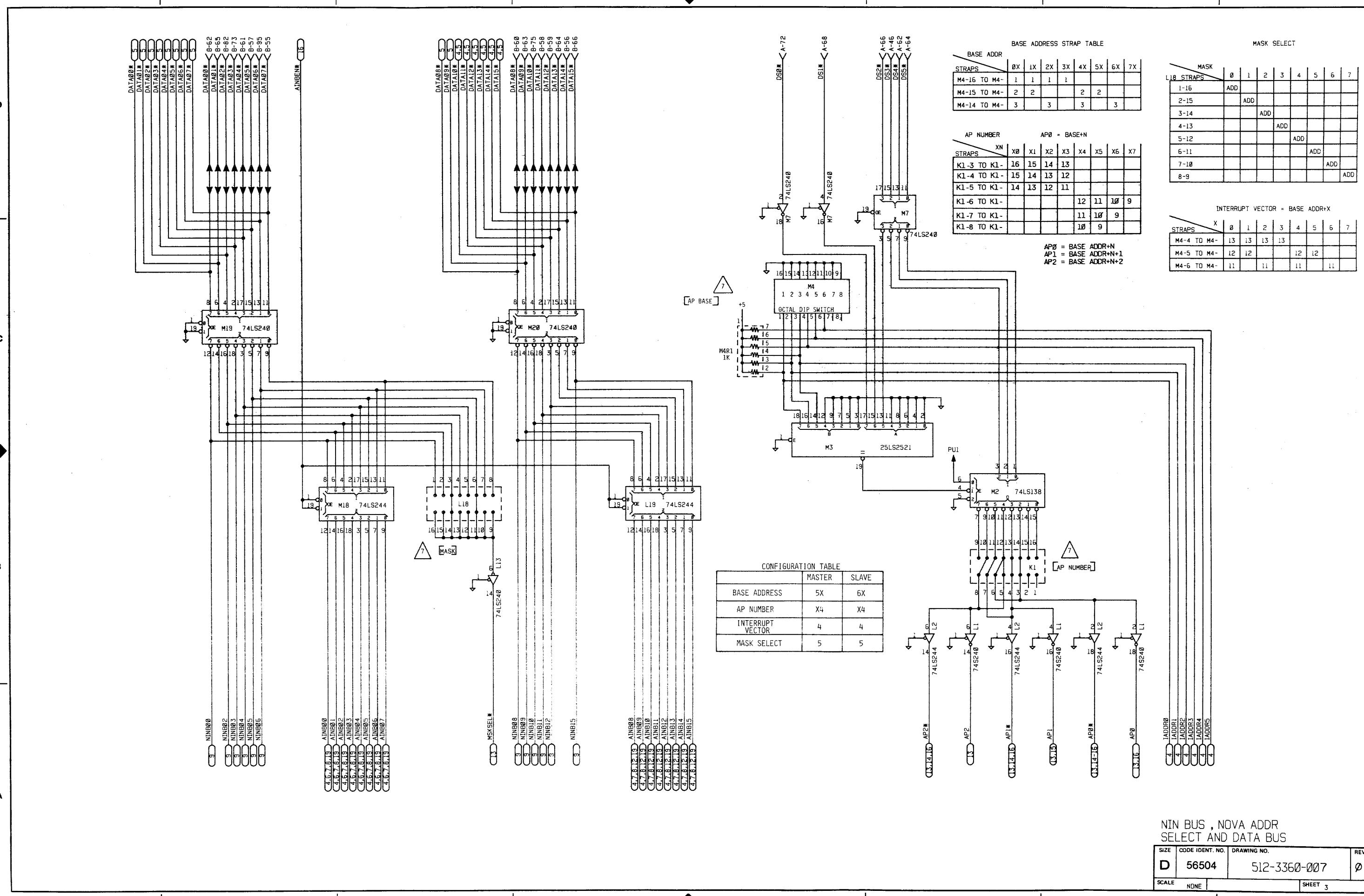
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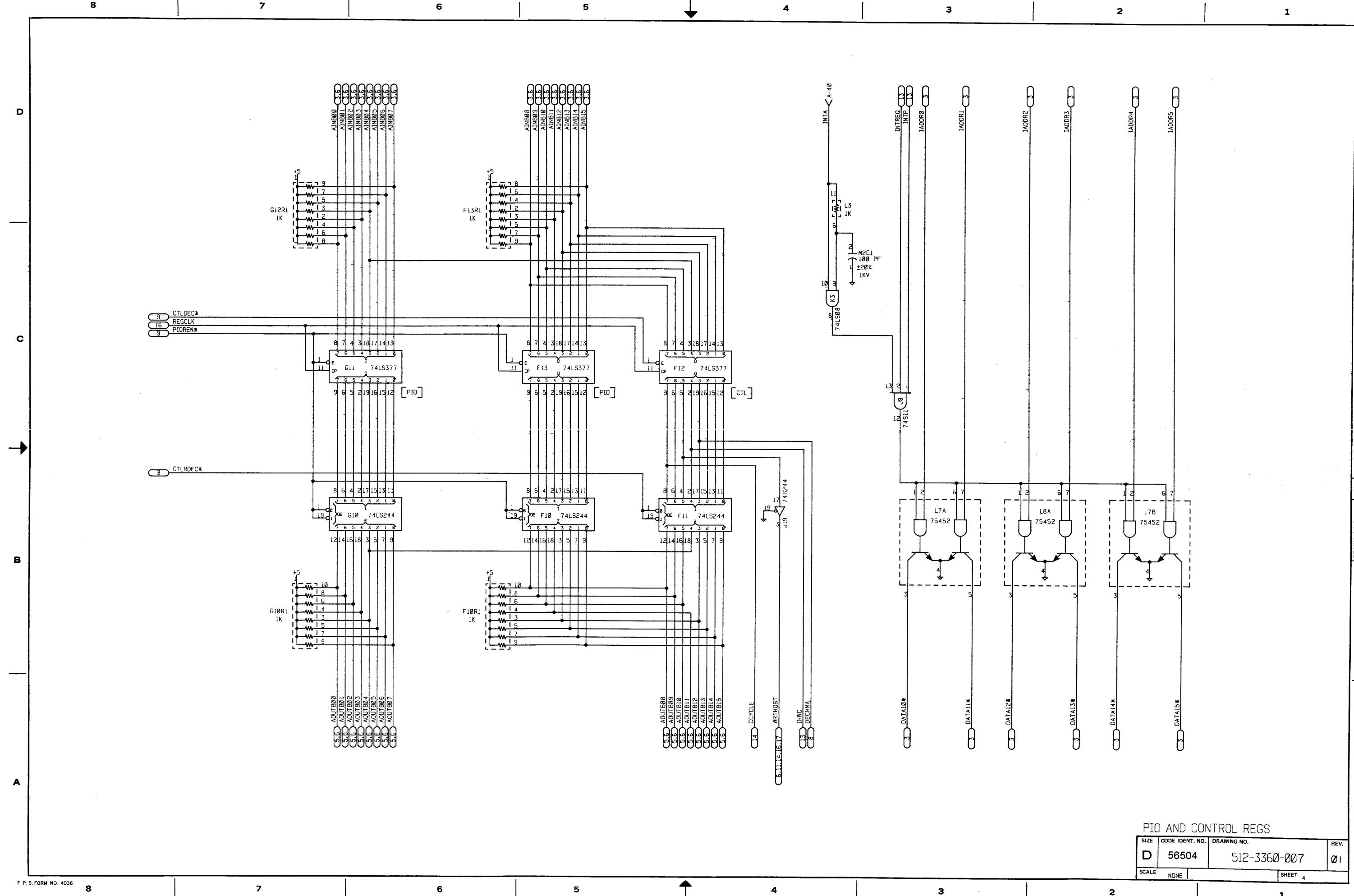
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CHECK-BY <i>S. Richardson</i> MFG. ENG.	DATE 8-14-83 DATE	DRAWING TITLE	SCHEMATIC, EOB,
		350,	DG ADAPTER
SIZE	CODE IDENT. NO.	DRAWING NO.	E12-201-A-xx-7 REV. 01
D	56504		
SCALE NONE			

IMPORTANT NOTE: IGNORE DASHES IN PINOUTS (EXAMPLE:A-191). THEY ARE FOR PURPOSES OF CLARITY ONLY.







8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

↓ | 4 | 3 | 2 | 1

D

C

C

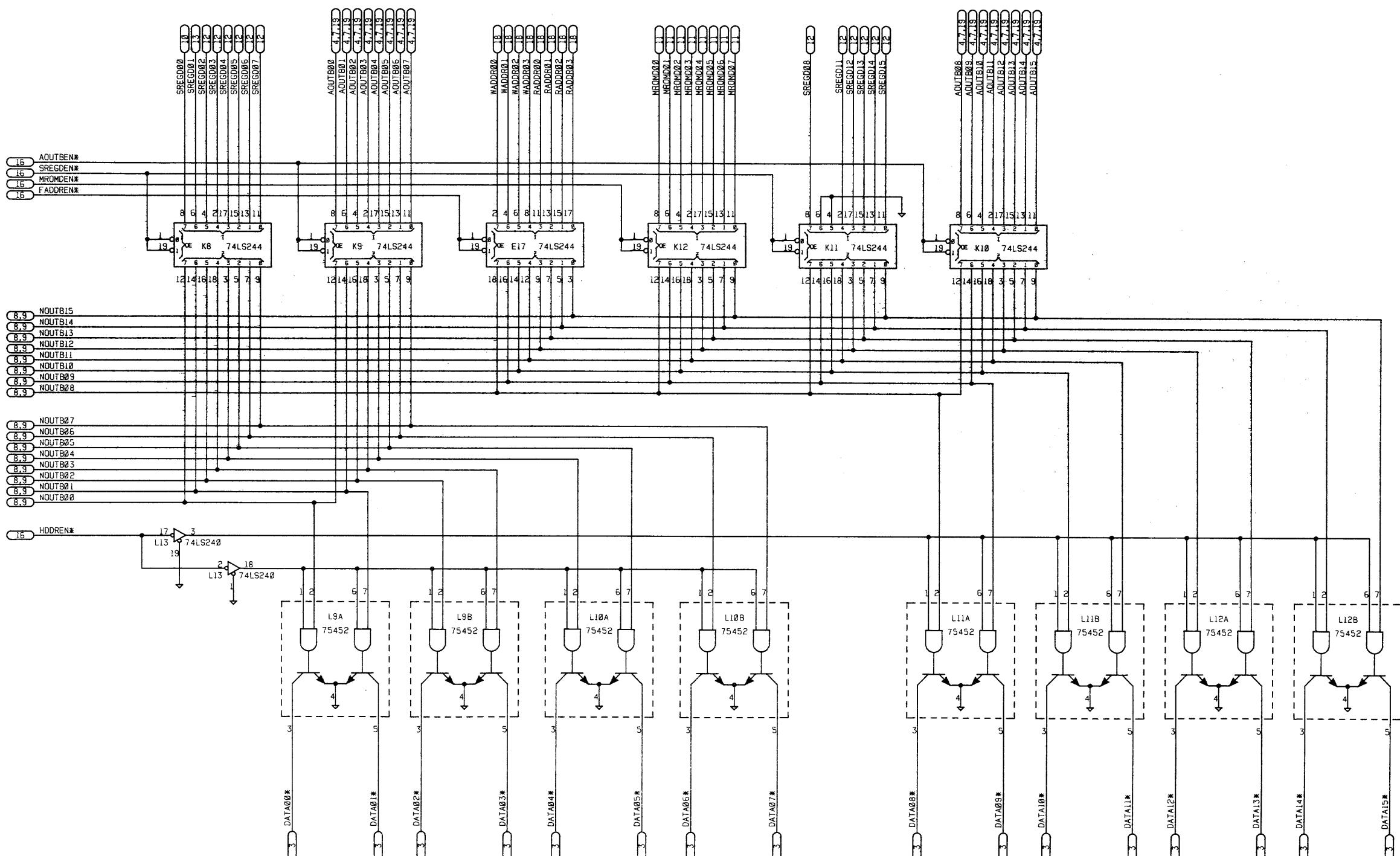
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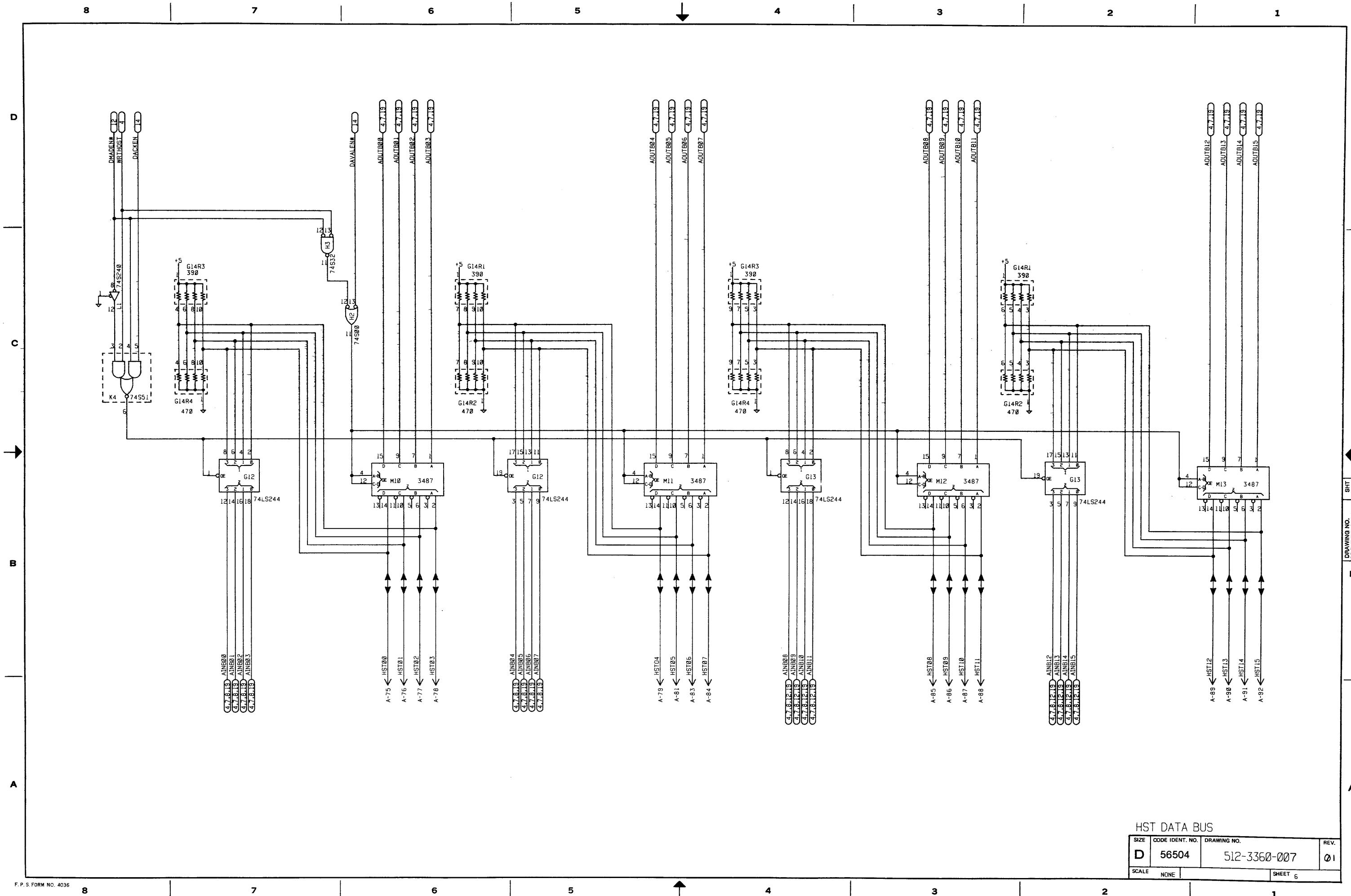
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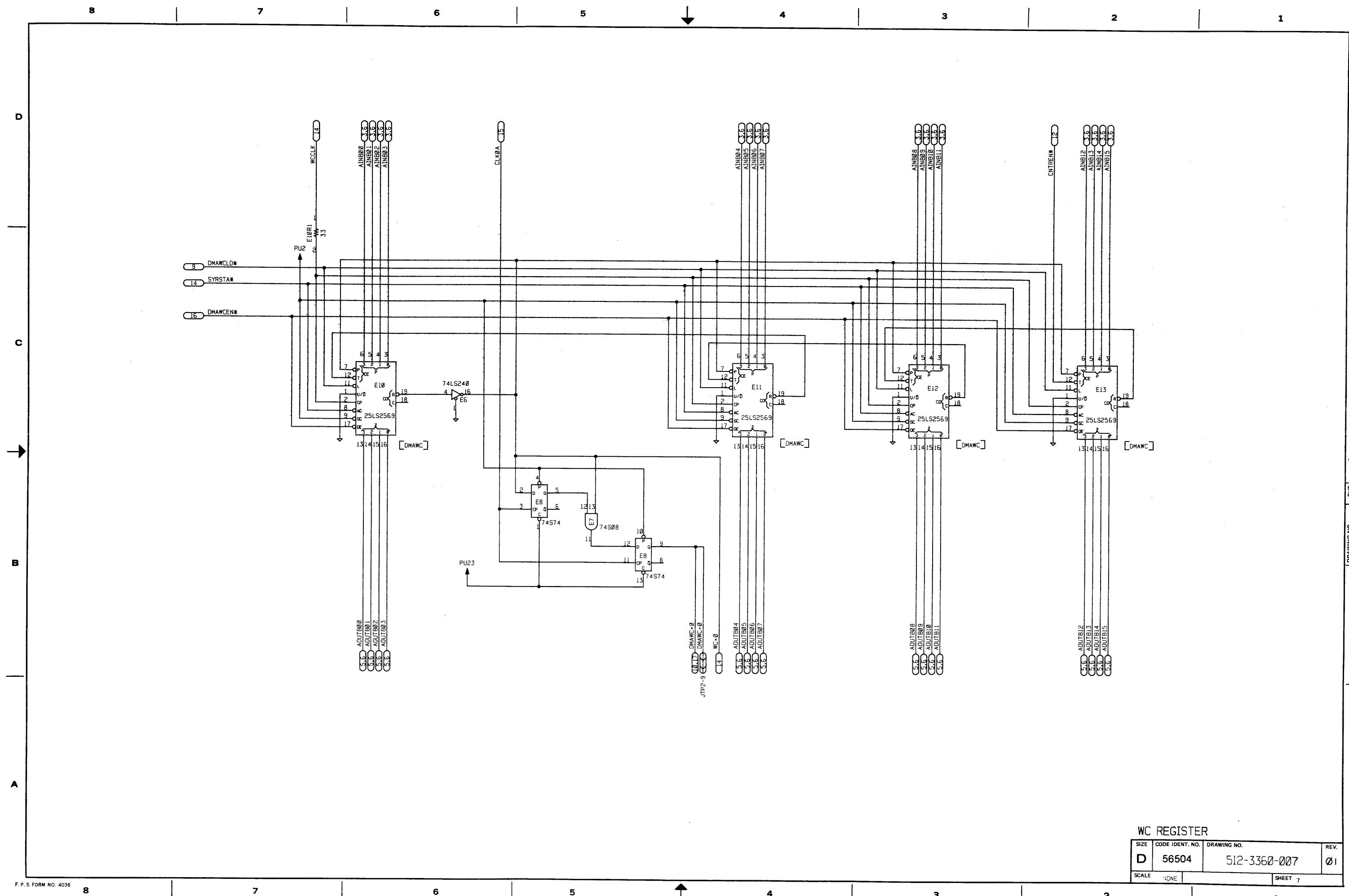


NOUT BUS AND NOVA DATA BUS

SIZE	CODE IDENT. NO.	DRAWING NO.	REV.
D	56504	512-3360-007	Ø1
SCALE	NONE		SHEET 5



SIZE	CODE IDENT. NO.	DRAWING NO.	REV.
D	56504	512-3360-007	01
SCALE	NONE	SHEET	6



F. P. S. FORM NO. 403

8

5

1

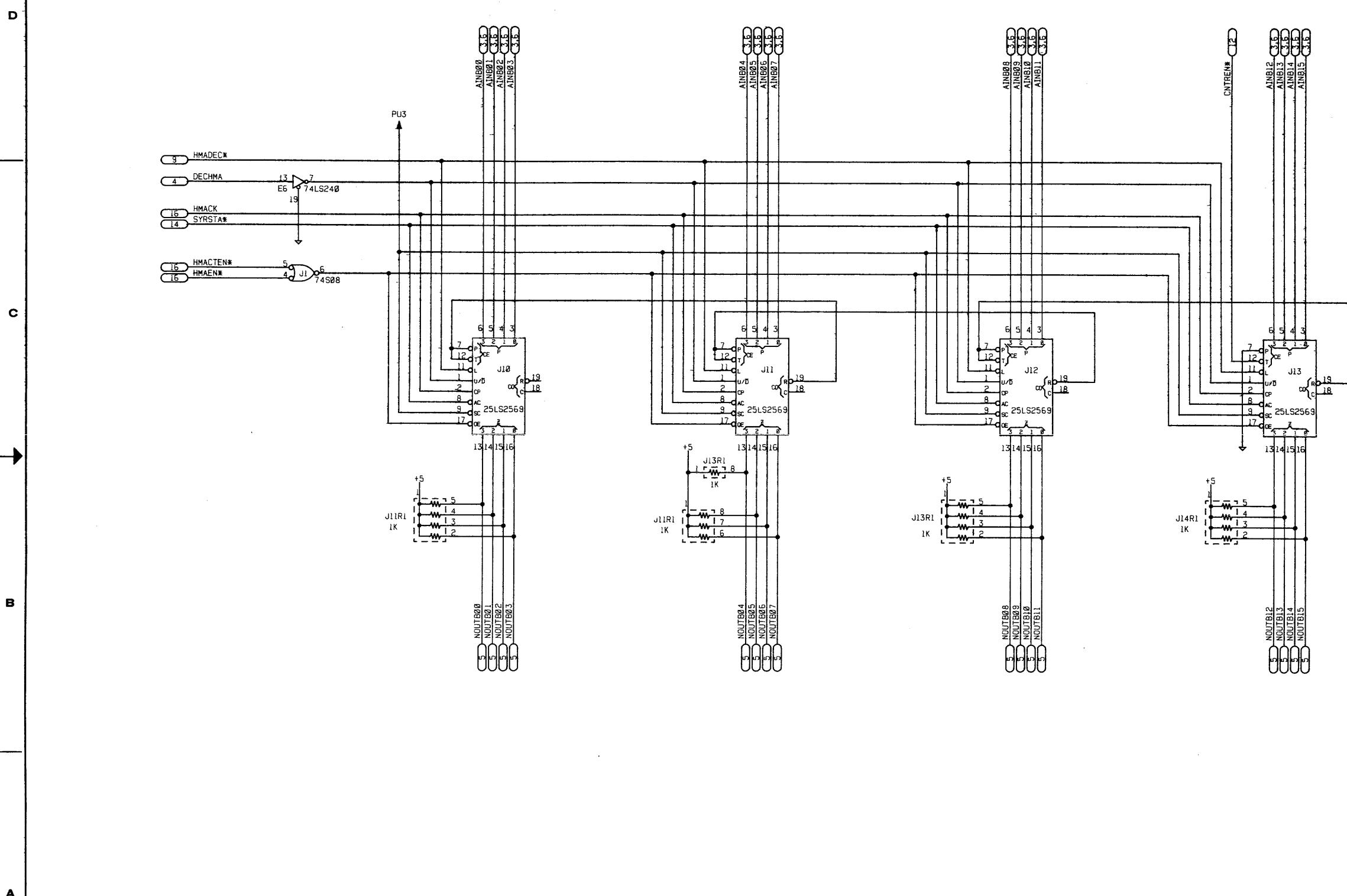
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WC REGISTER

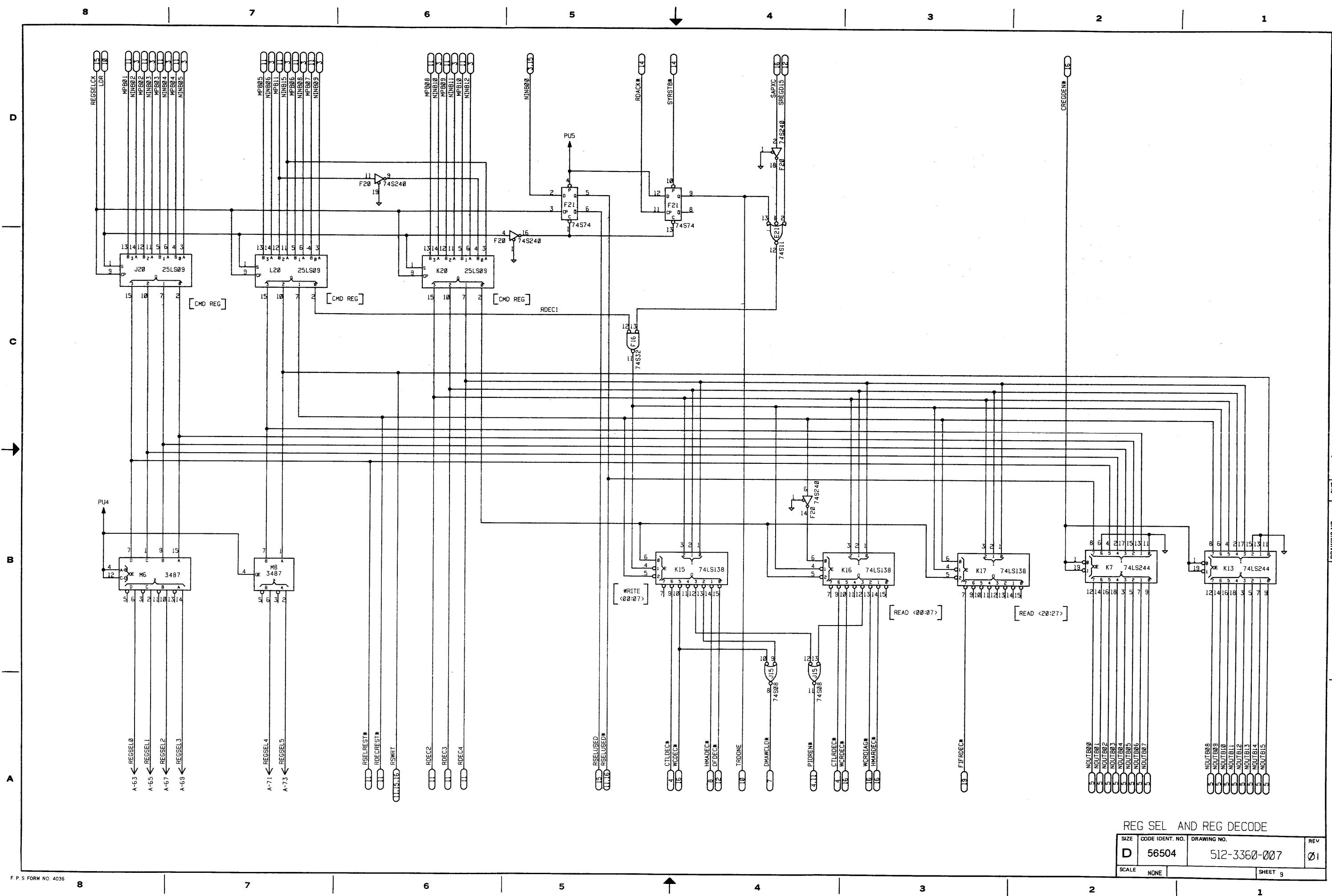
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SCALE NONE		SHEET 7	

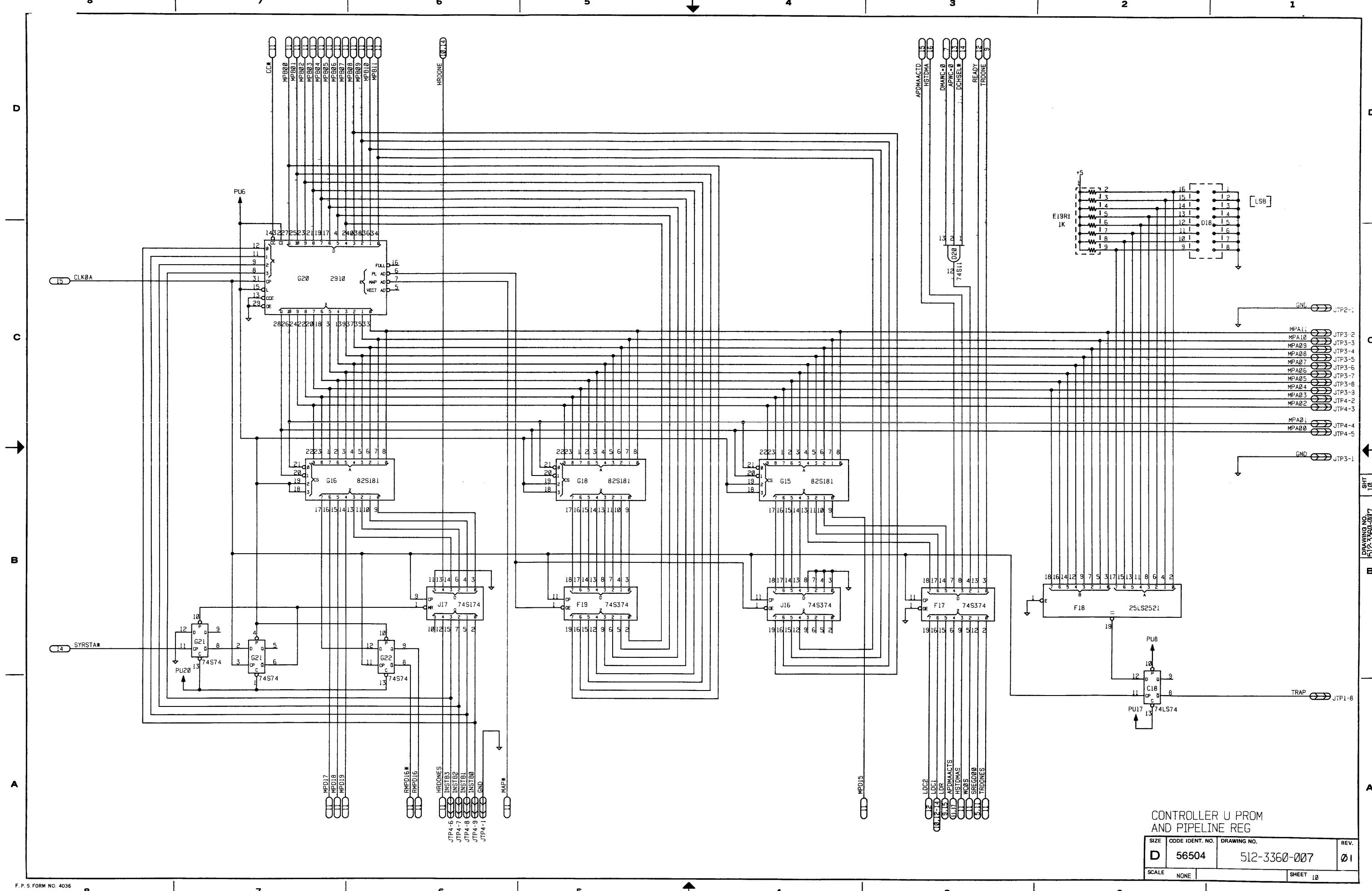
8 | 7 | 6 | 5 | 4 | 3 | 2 | 1



HMA REGISTER

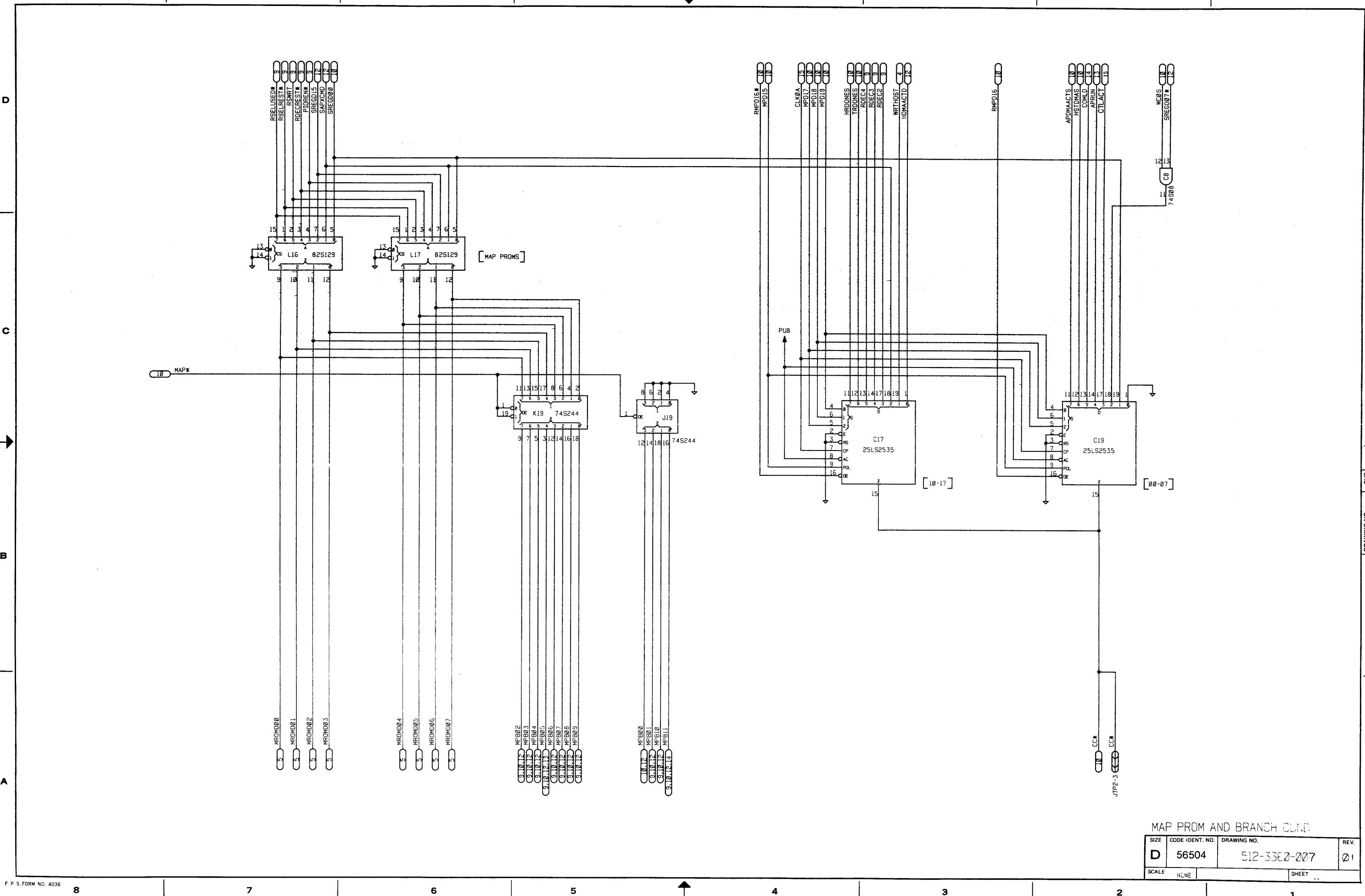
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SCALE	NONE	SHEET 8

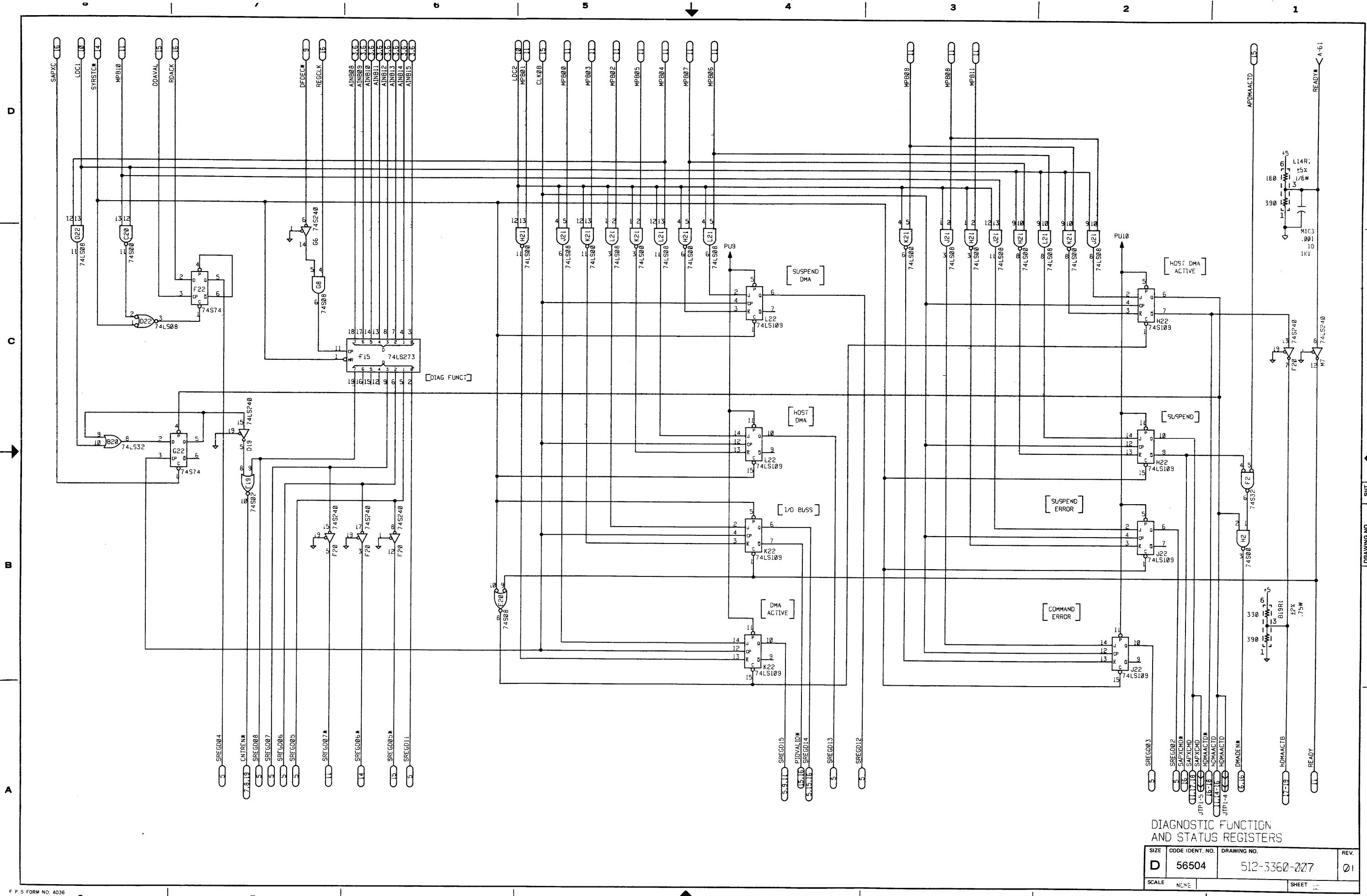




CONTROLLER U PROM AND PIPELINE REG

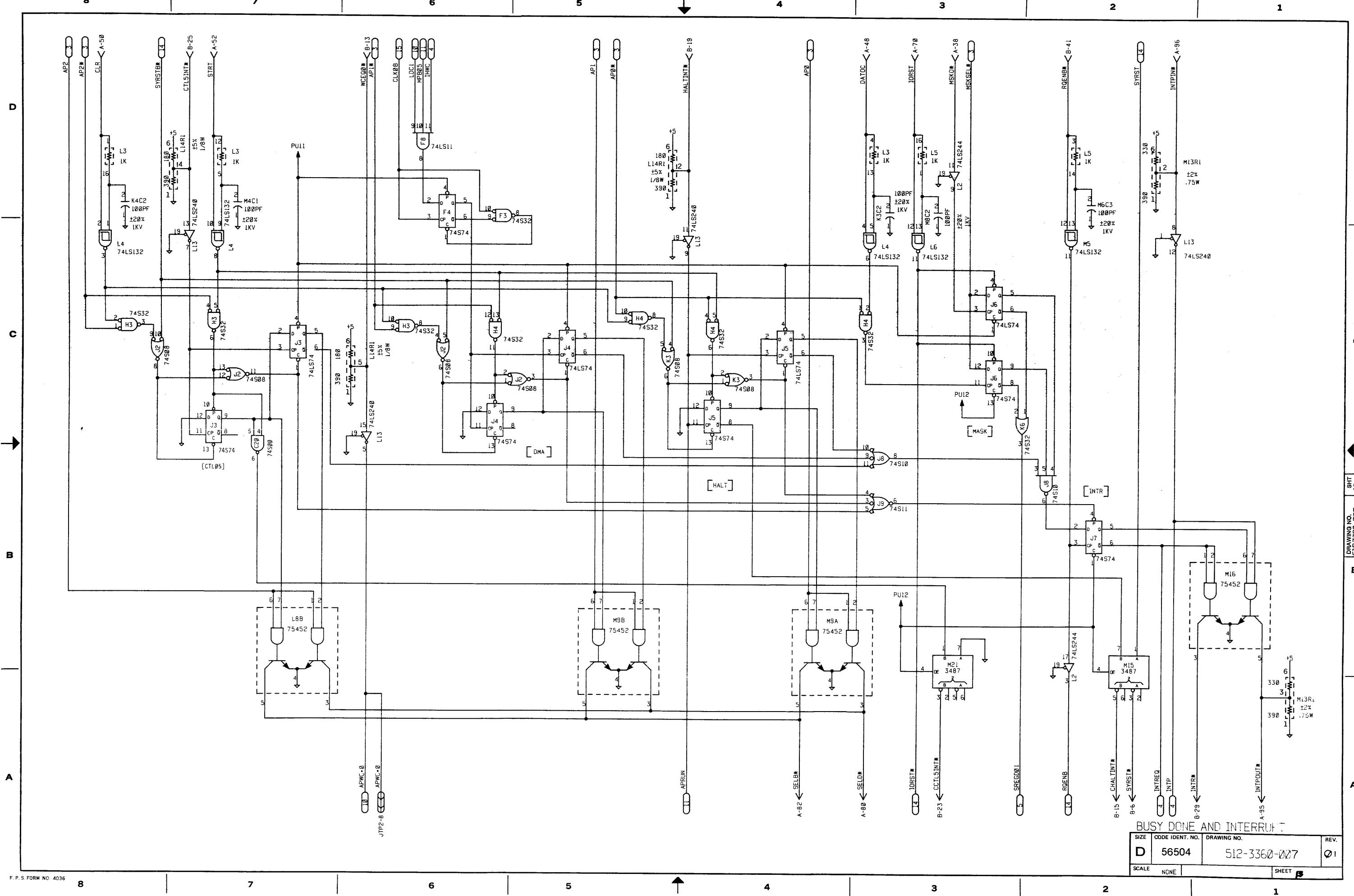
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SCALE	NONE	SHEET 10	

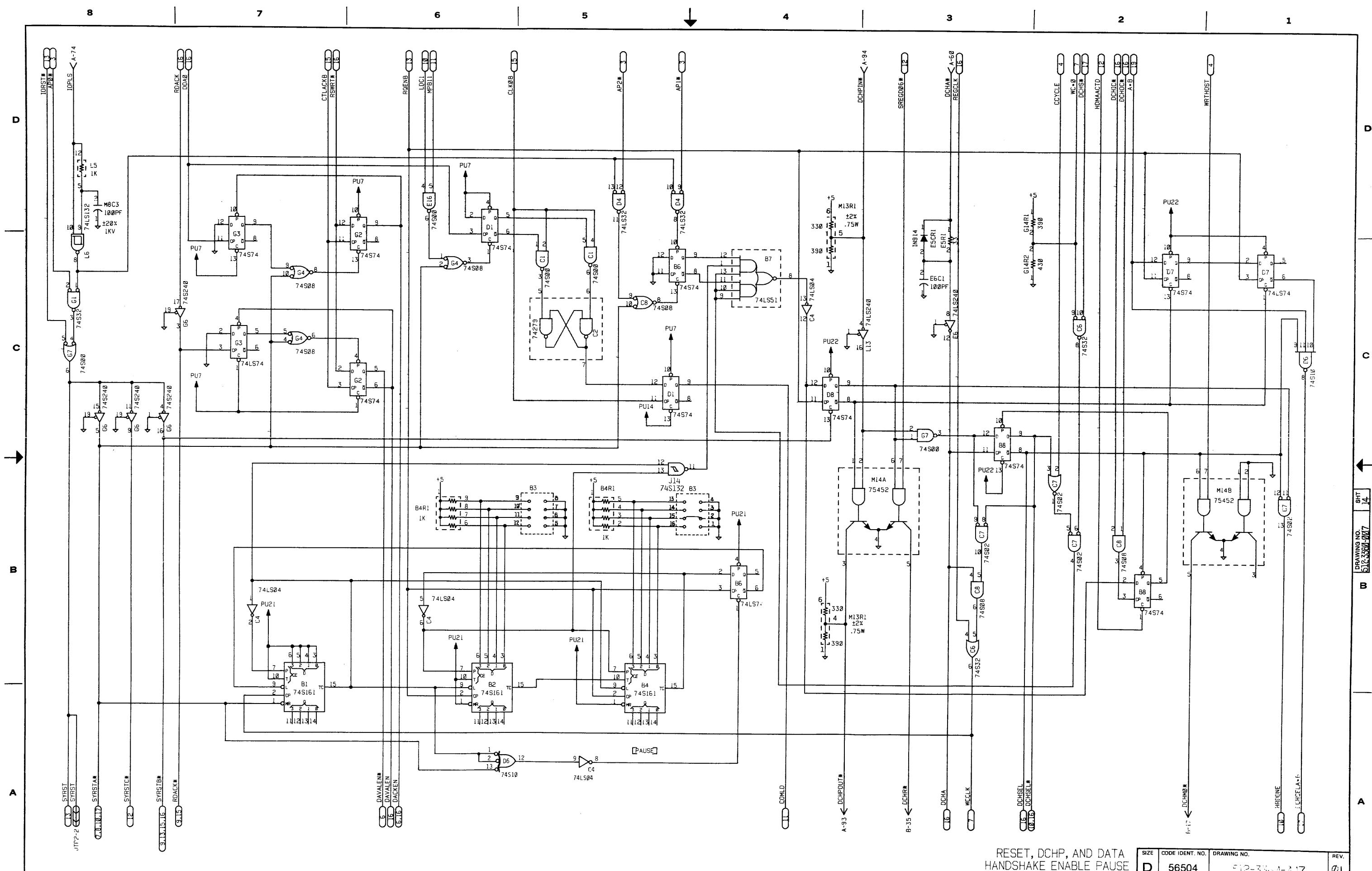




DIAGNOSTIC FUNCTION AND STATUS REGISTERS

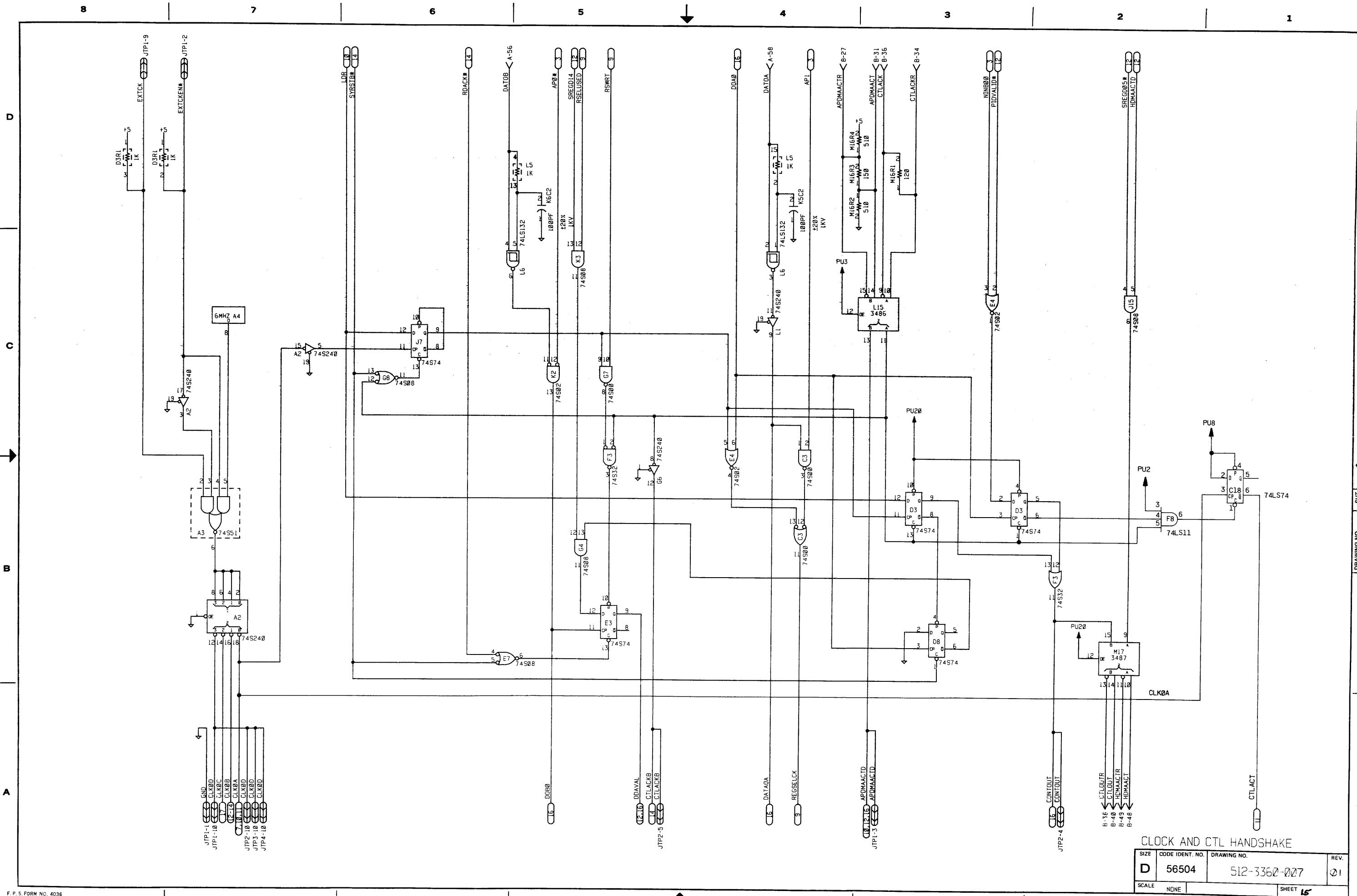
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SCALE	None	SHEET	12





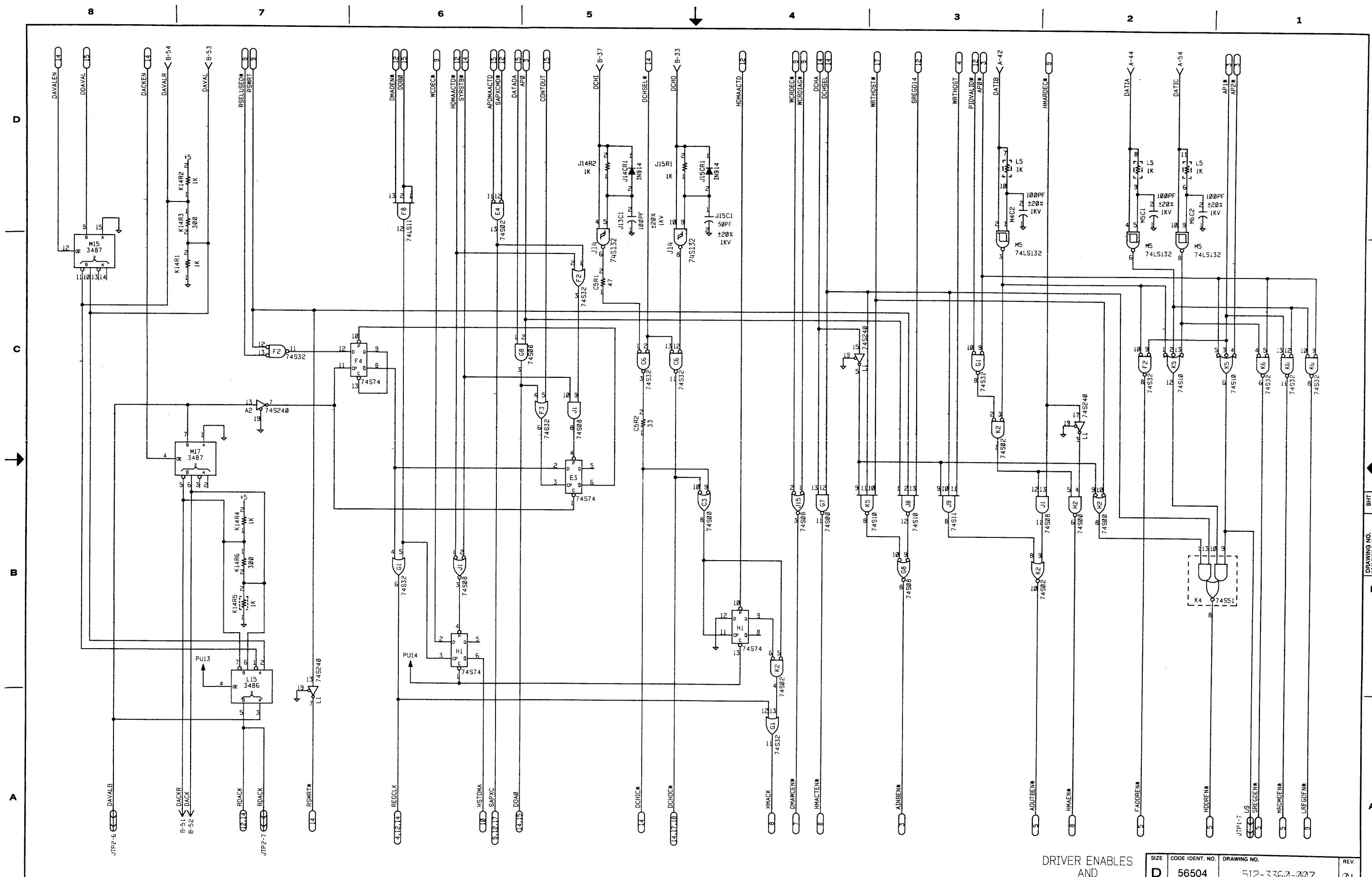
RESET, DCHP, AND DATA HANDSHAKE ENABLE PAUSE

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SCALE None		SHEET 14	



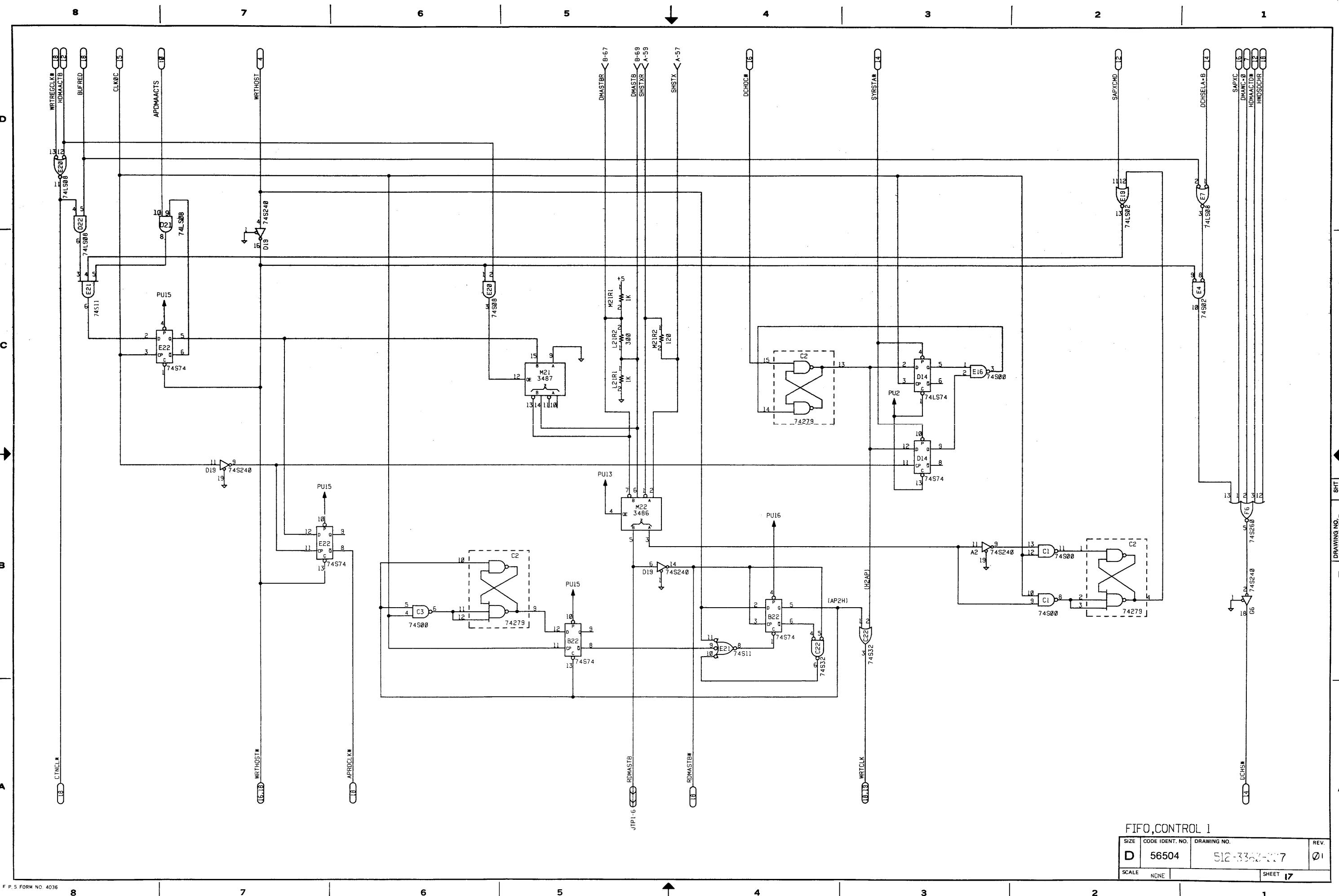
CLOCK AND CTL HANDSHAKE

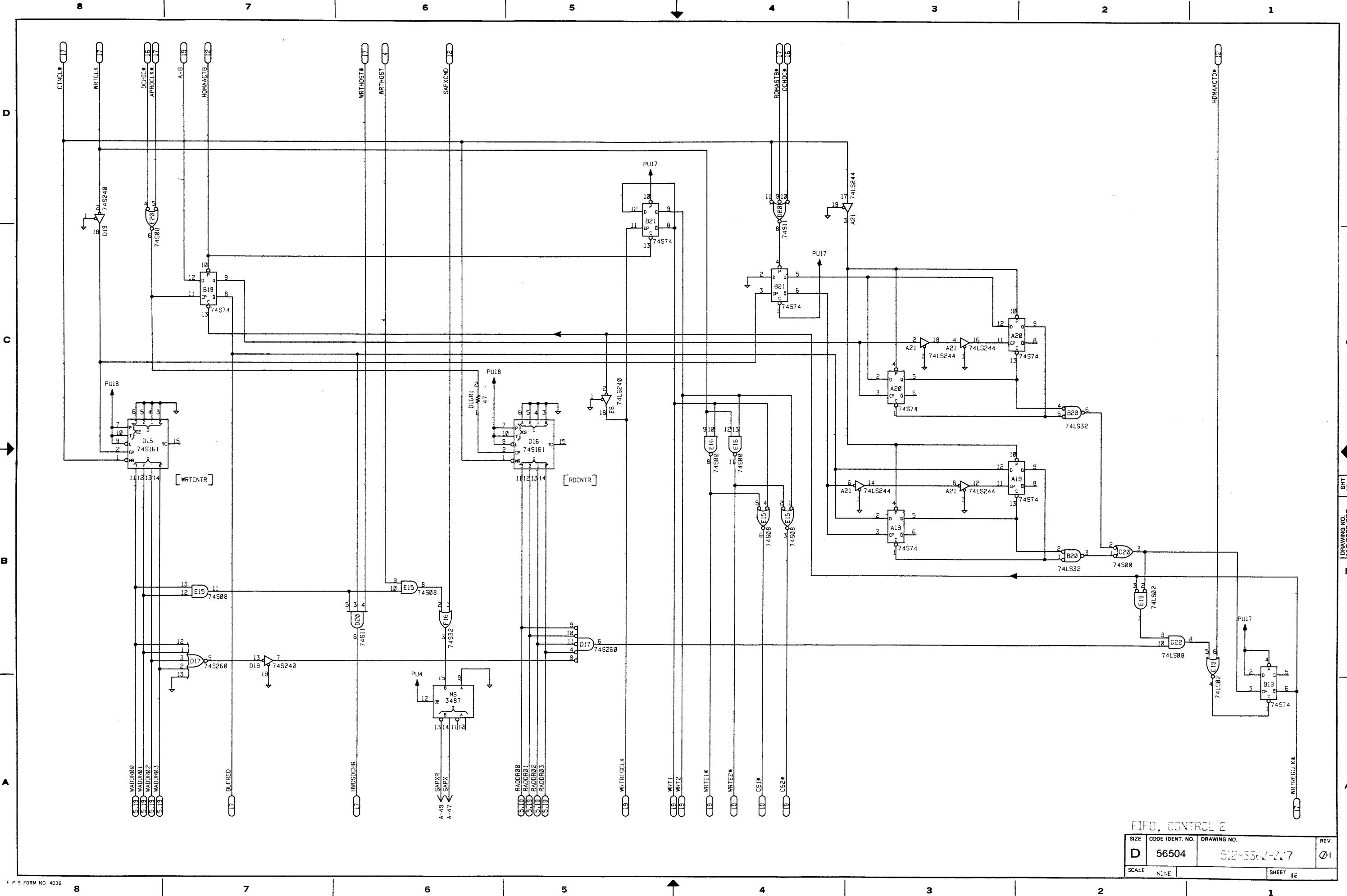
SIZE D	CODE IDENT. NO. 56504	DRAWING NO. 512-3360-007	REV. D1
SCALE	NONE	SHEET	15



DRIVER ENABLES AND DATA HANDSHAKE

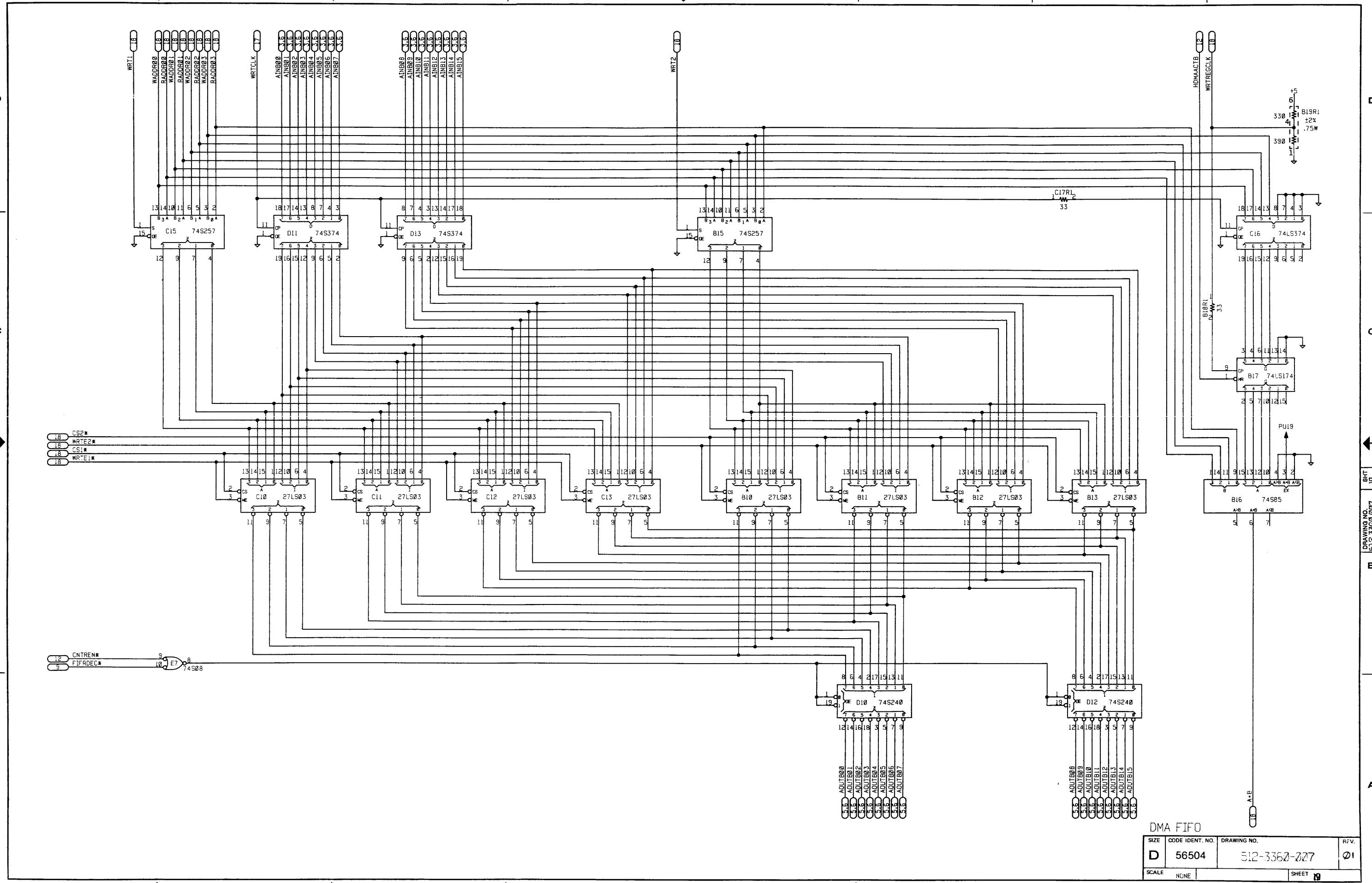
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SCALE NONE			SHEET 16

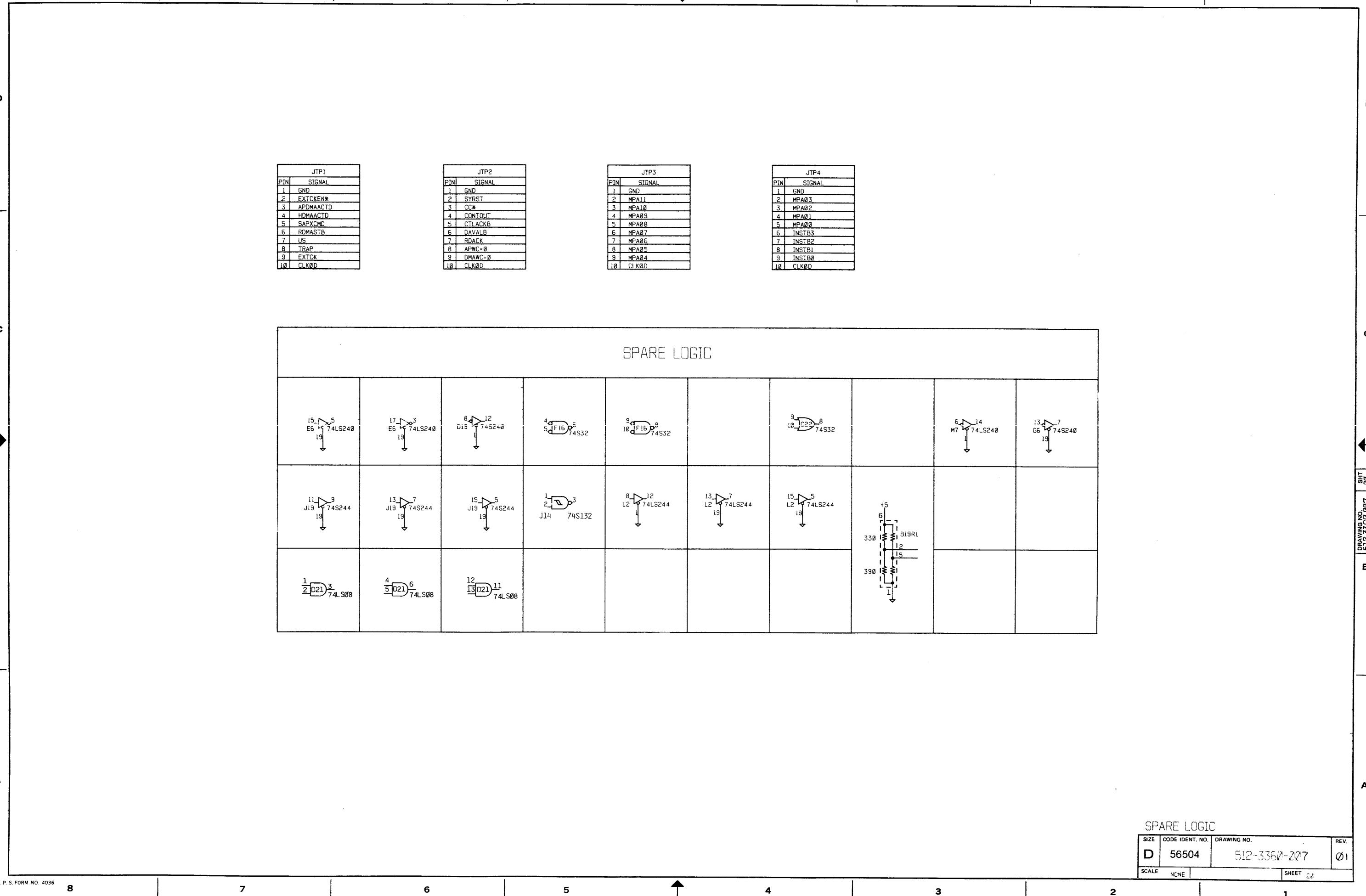


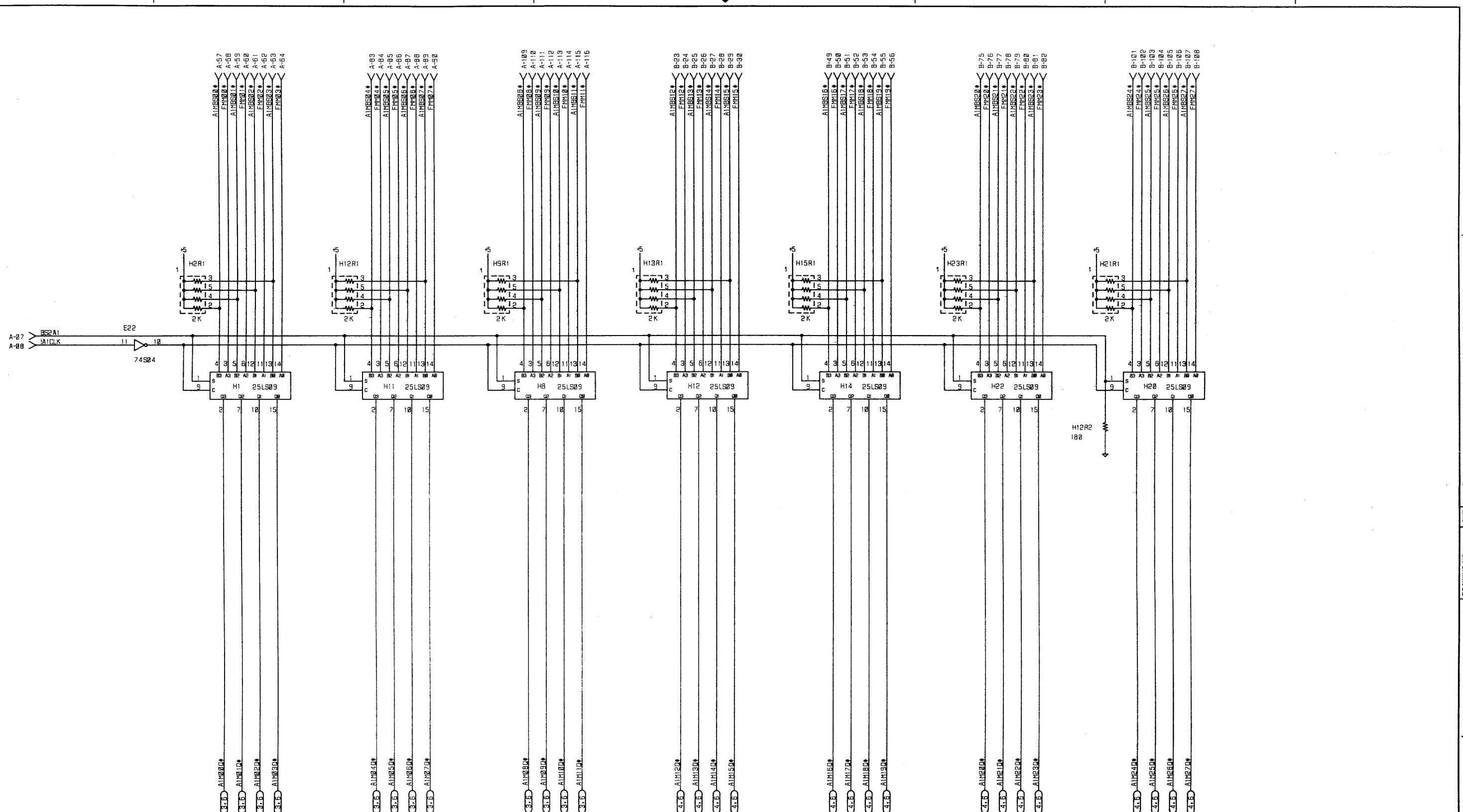


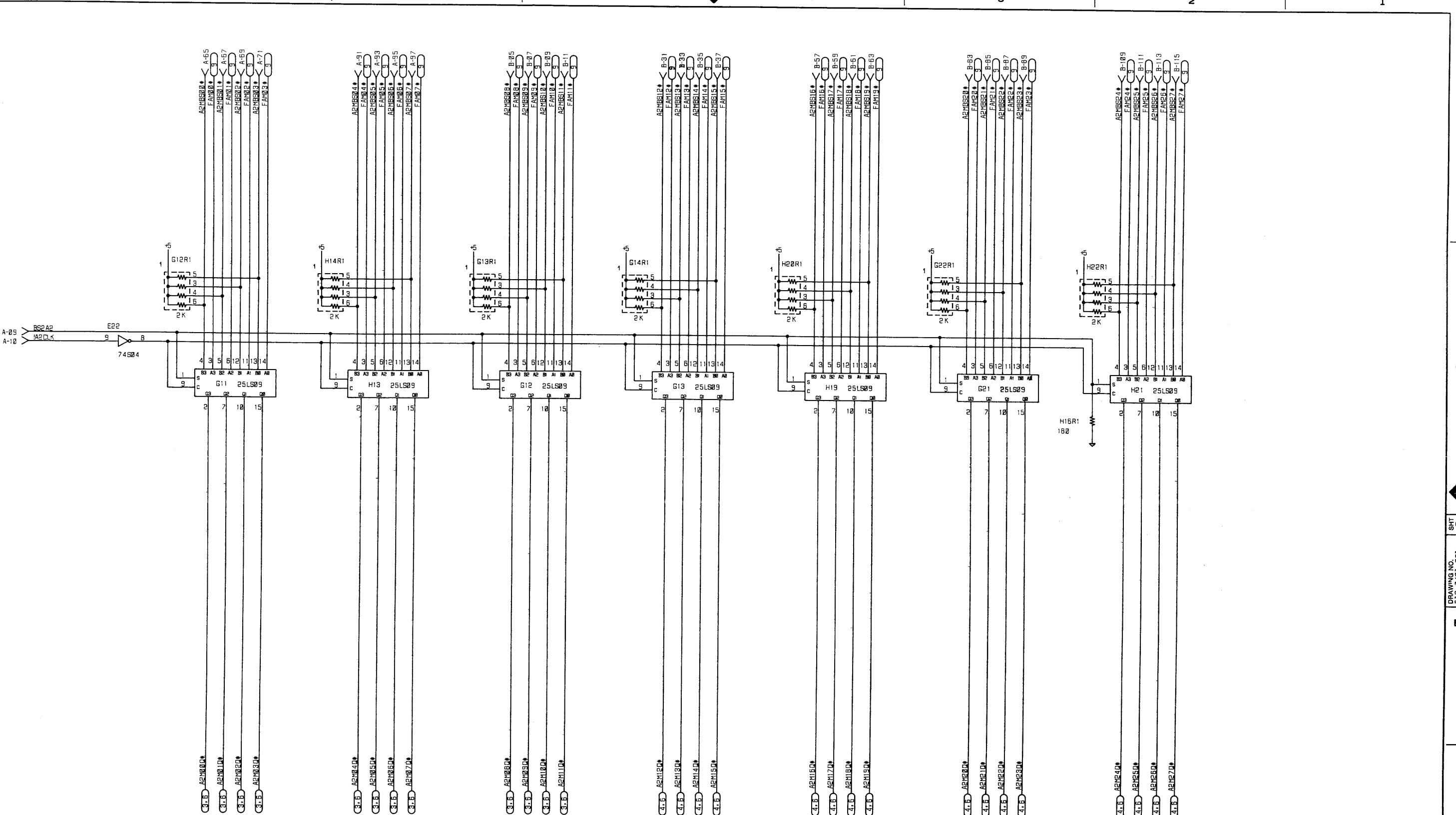
TIFO, CONTROL 2

SIZE D	CODE IDENT. NO. 56504	DRAWING NO. 512-3504-27	REV. D1
SCALE None		SHEET 16	









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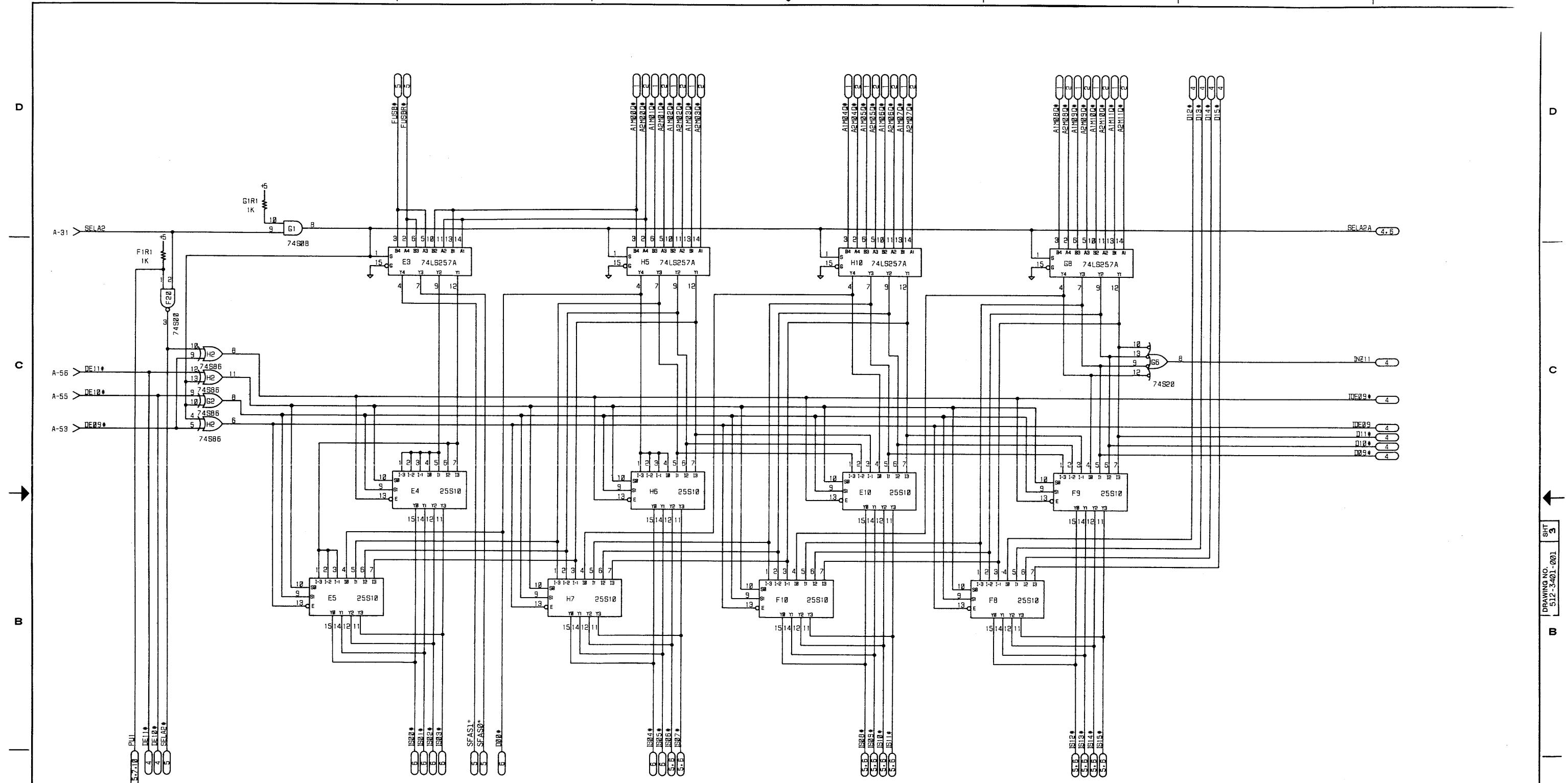
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		SCALE	NONE	SHEET 2



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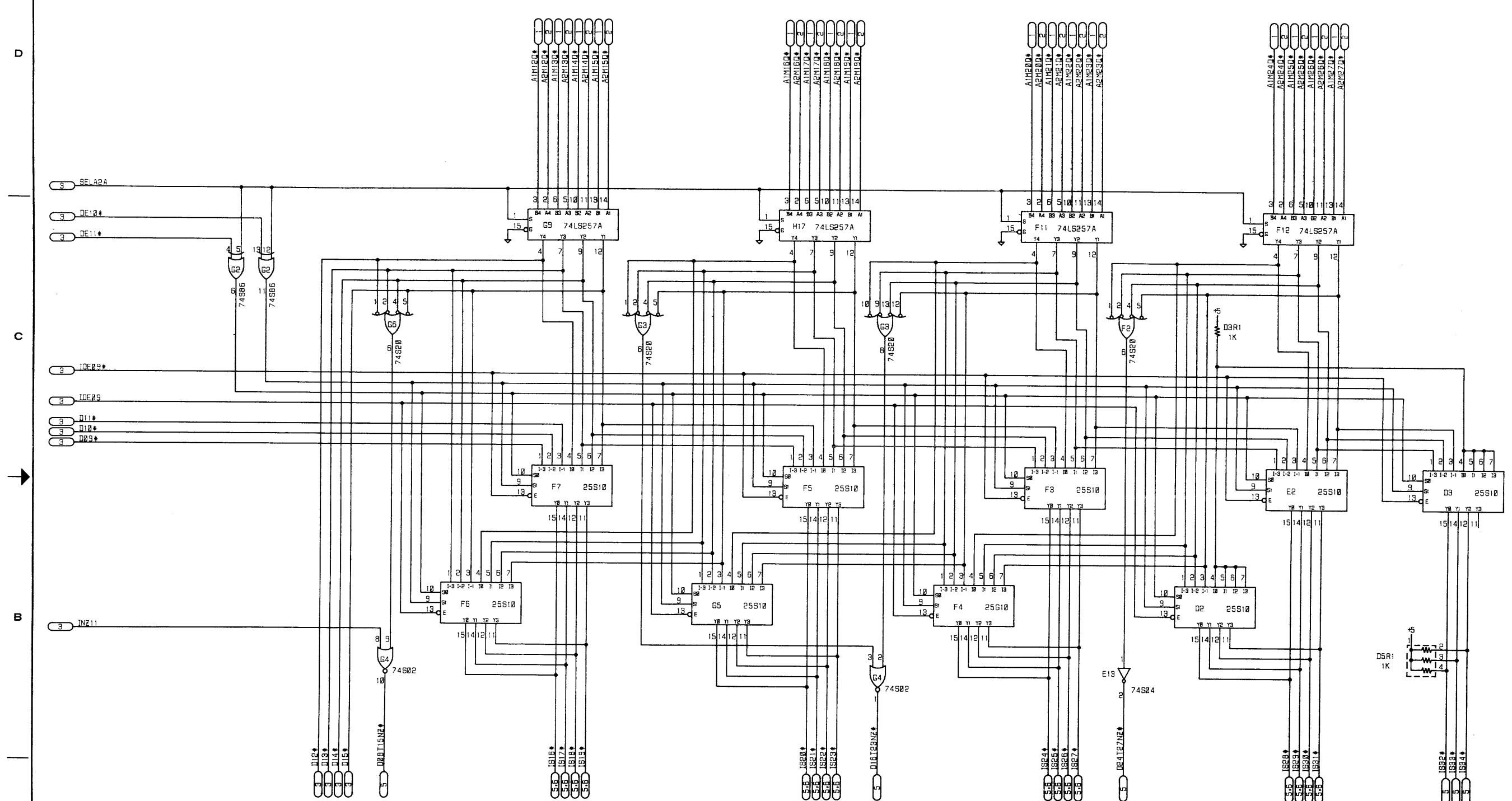
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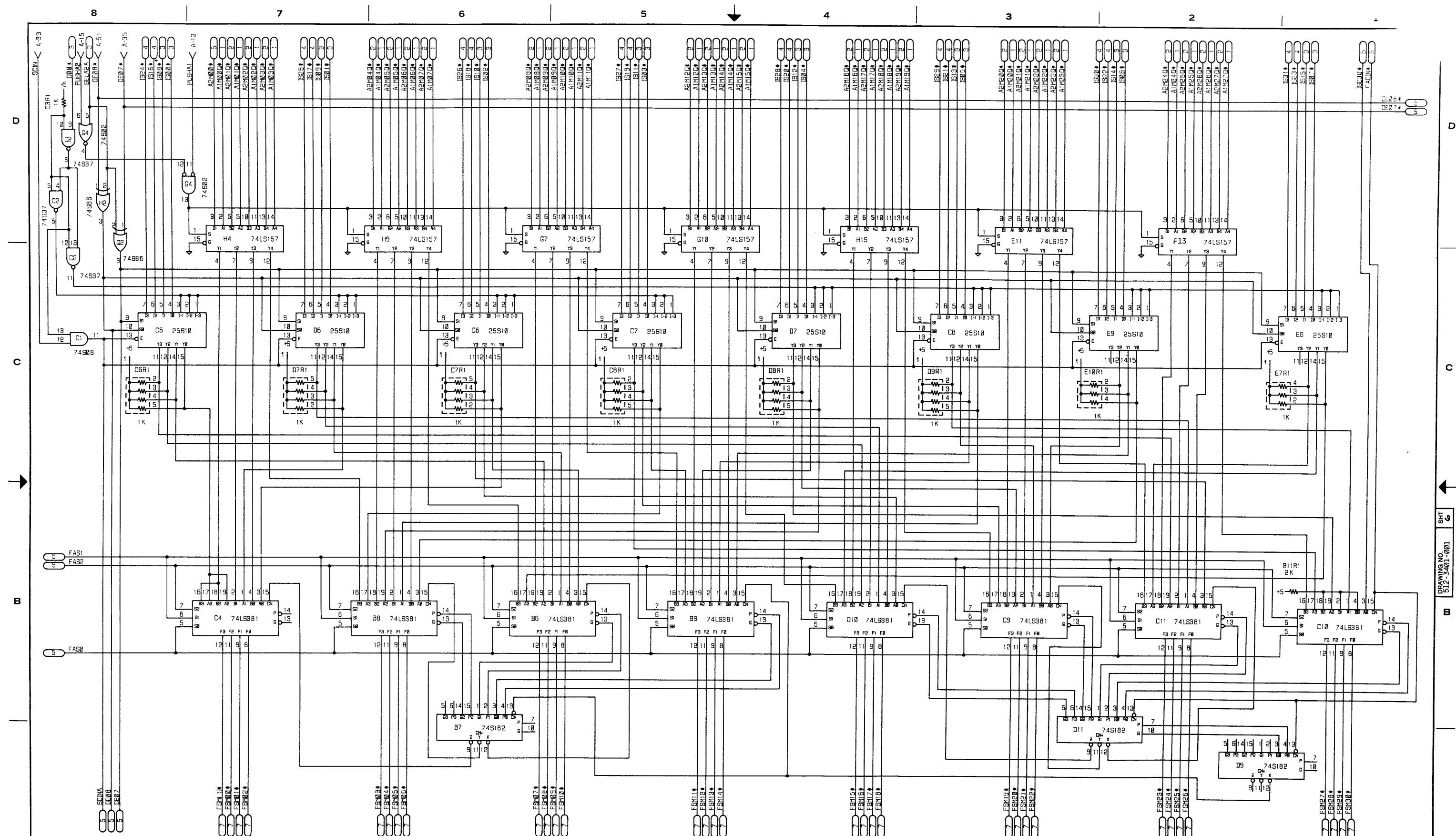
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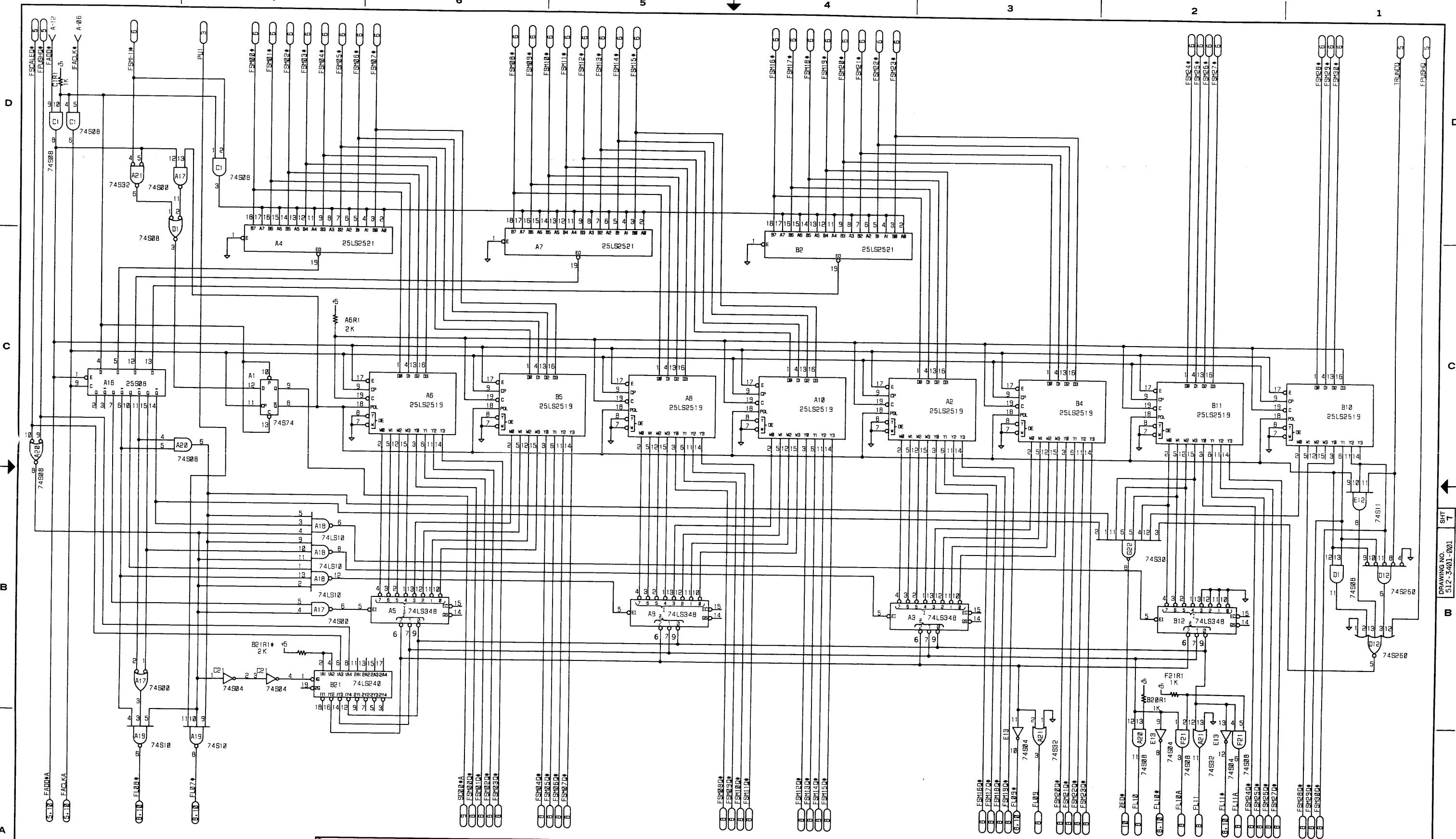
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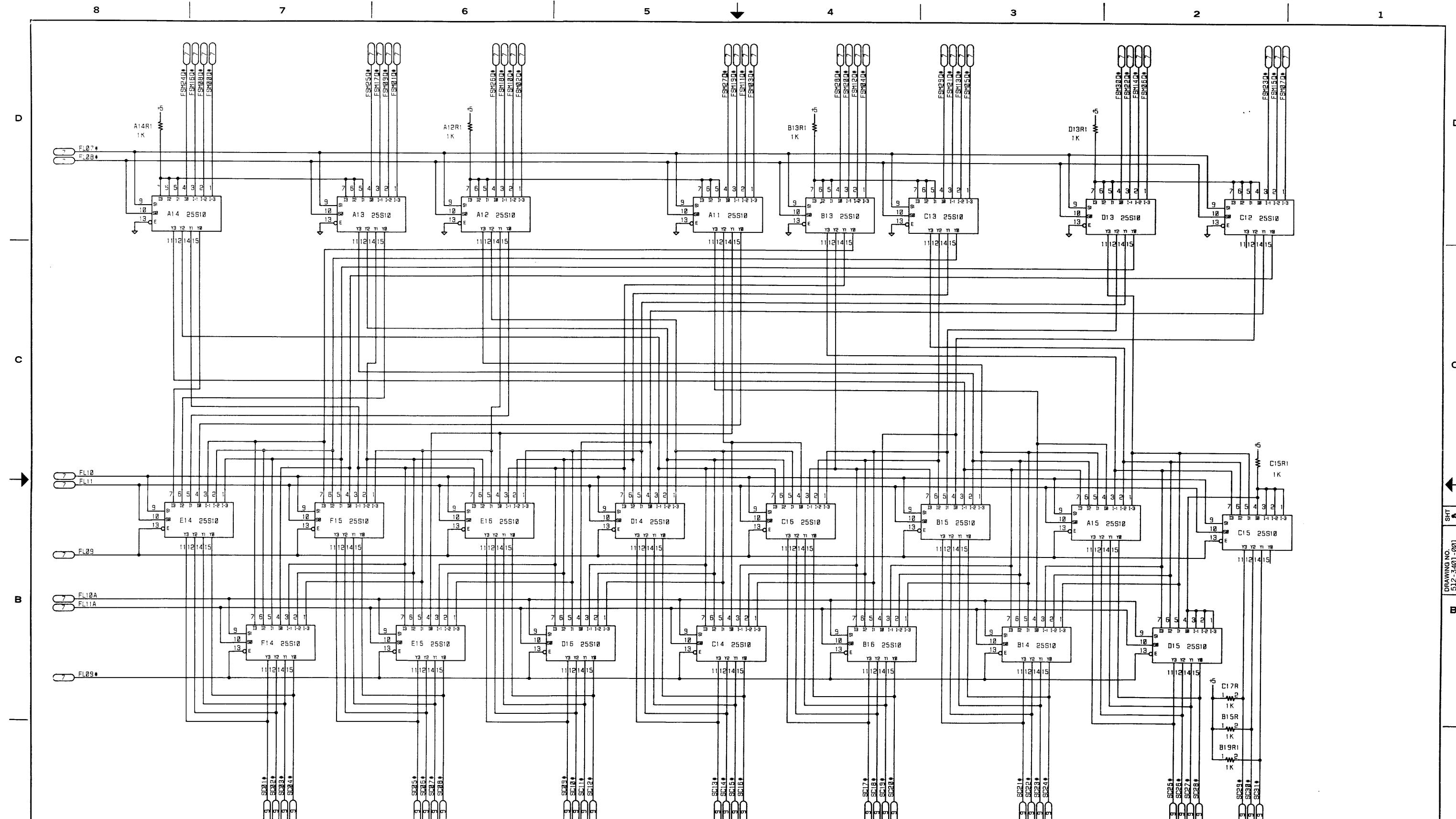
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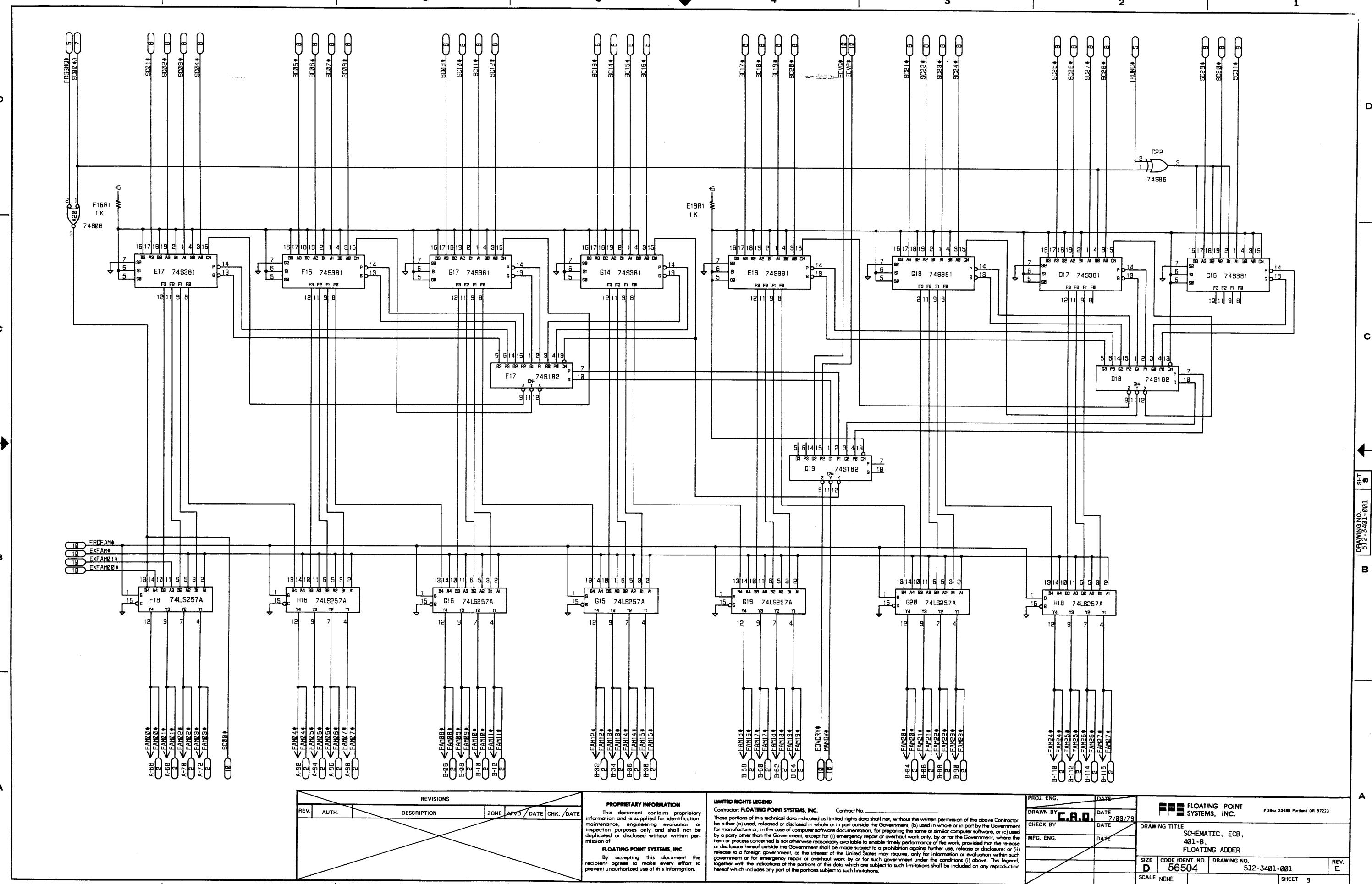
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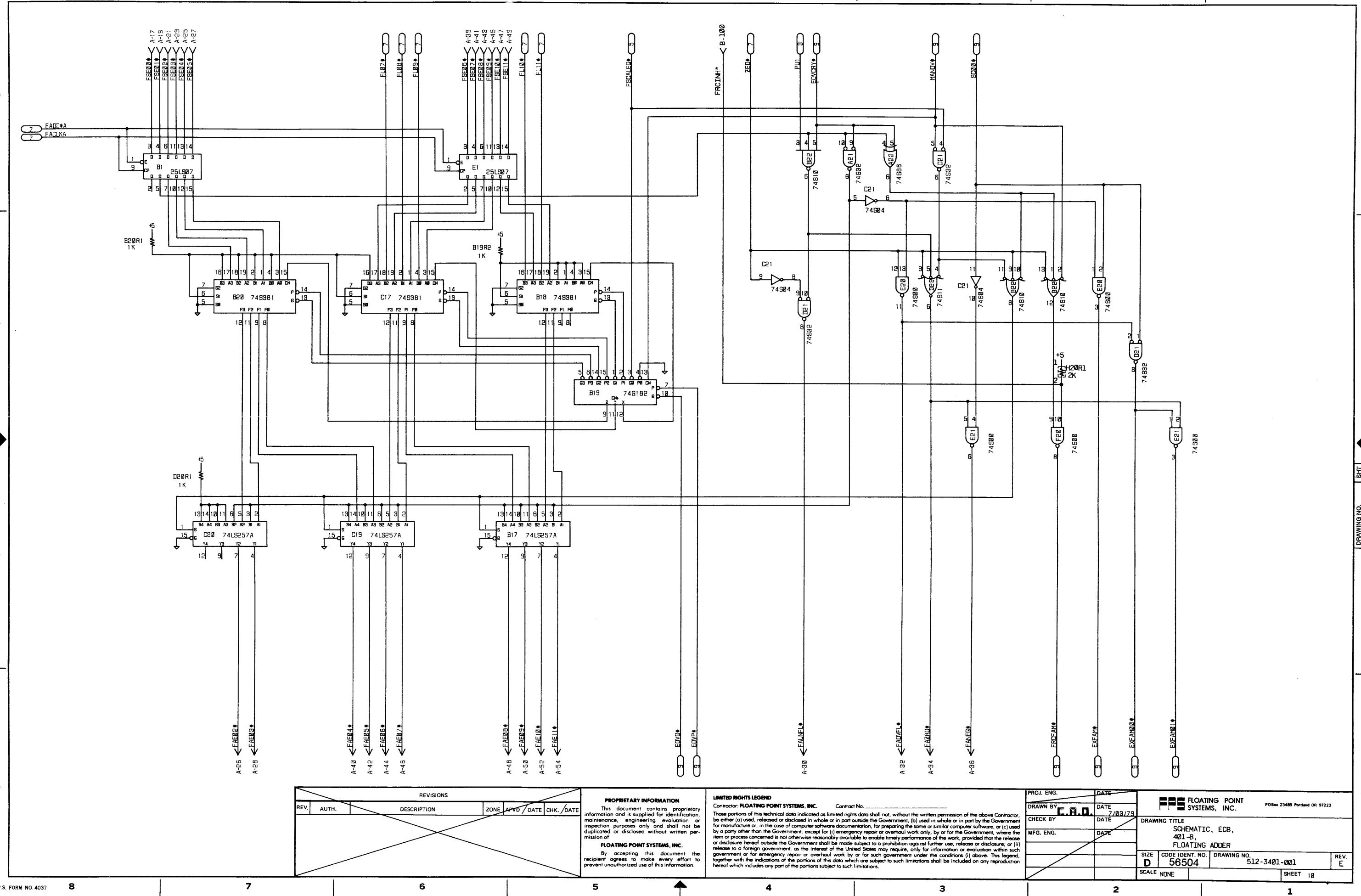
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PROJ. ENG.	DATE							
DRAWN BY	DATE	 7/03/79						
CHECK BY	DATE							
MFG. ENG.	DATE							
DRAWING TITLE		SCHMATIC, ECB, 401-B, FLOATING ADDER						
SIZE	CODE IDENT. NO.	DRAWING NO.						
D	56504	512-3401-001						
SCALE		NONE						
SHEET 8								



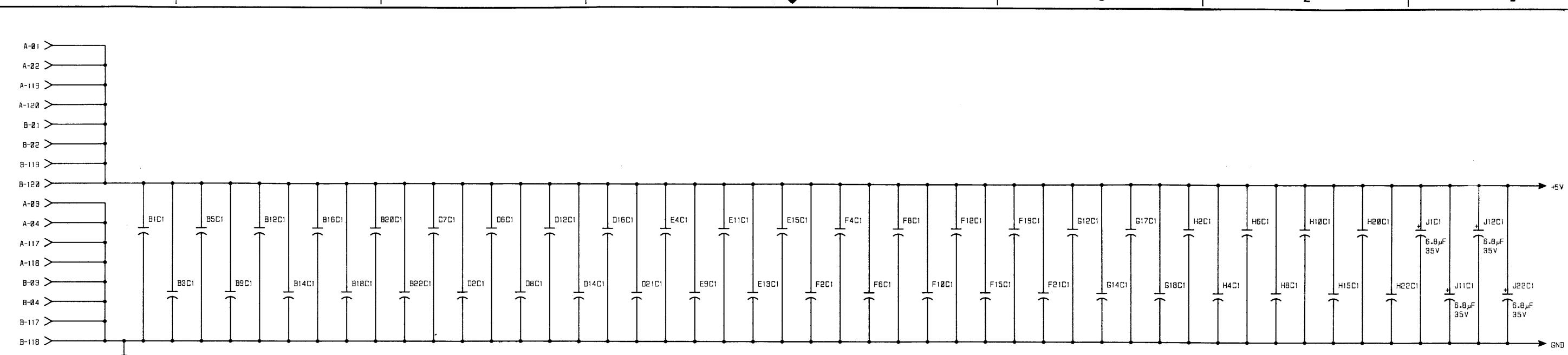


REVISIONS	
REV.	AUTH.
FAE02*	
FAE03*	
FAE04*	
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FAE08*	
FAE09*	
FAE10*	
FAE11*	

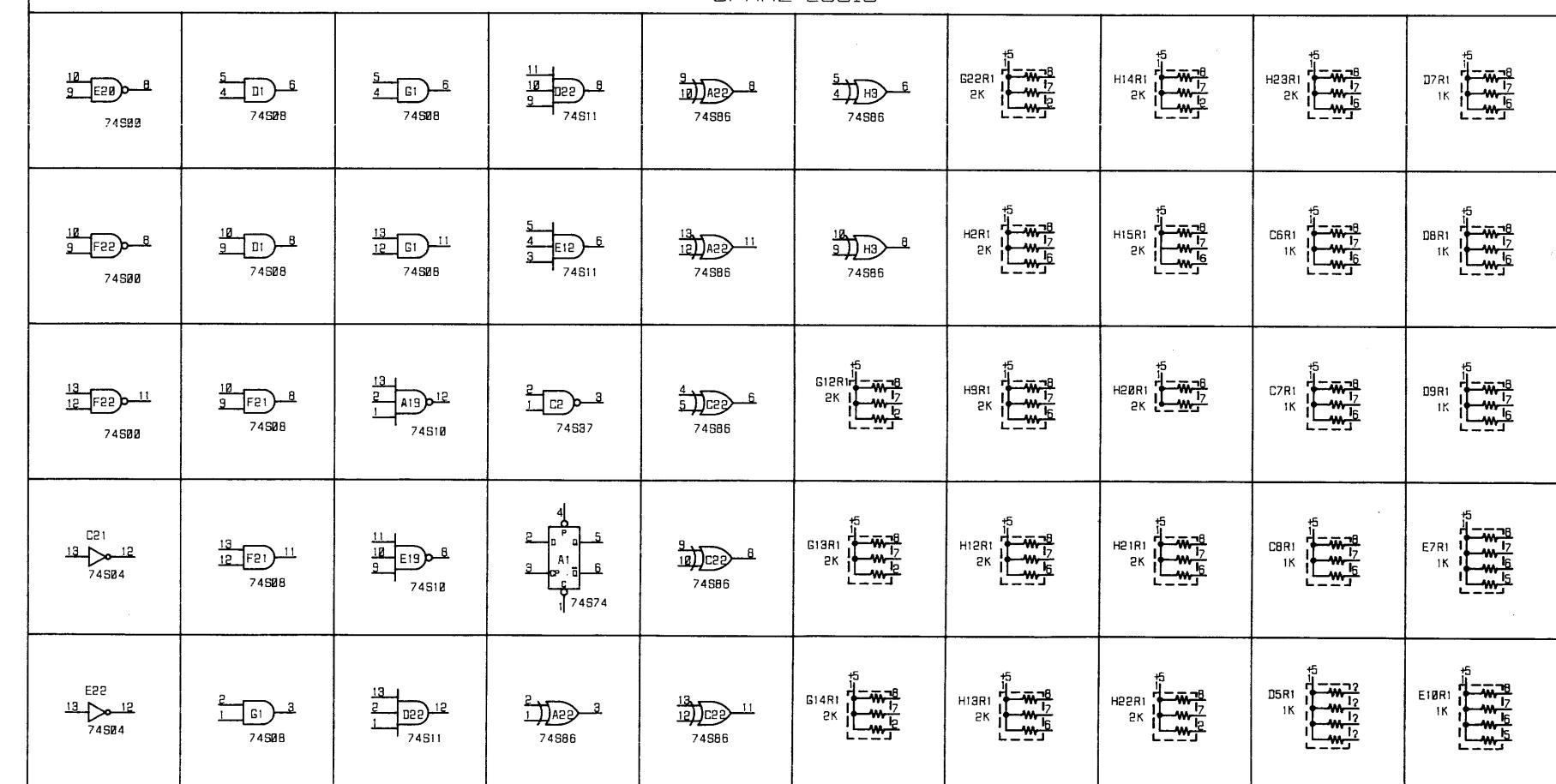
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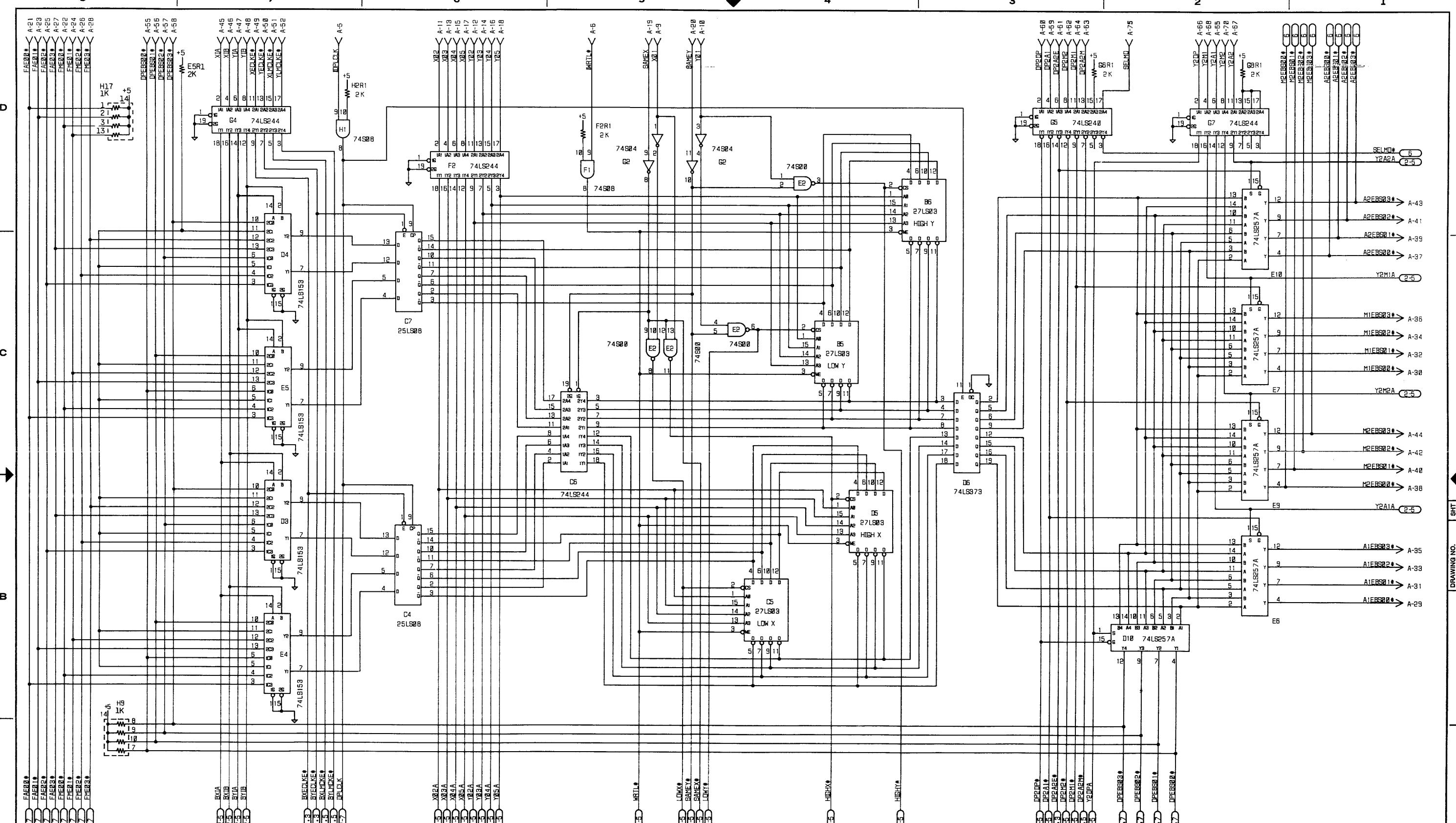
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PROJ. ENG.	DATE	
DRAWN BY	DATE	
CHECK BY	DATE	
MFG. ENG.	DATE	
DRAWING TITLE		
SCHEMATIC, ECB, 401-B, FLOATING ADDER		
SIZE	CODE IDENT. NO.	DRAWING NO.
D	56504	512-3401-001
SCALE NONE		REV. E
SHEET 18		



SPARE LOGIC





REVISIONS					
REV.	AUTH.	DESCRIPTION	ZONE	APVD / DATE	CHK. / DATE
01	EN-41	INITIAL LEVEL 2 RELEASE		10-2-79 3-17-80	2-17-79
A	ECO 80063	LEVEL 3 RELEASE		10-2-80 3-17-80	2-17-79
B	ECO 80259	ADD RESISTOR PULLUPS		② 8-1-80 8-8-80	8-1-80
C	ECO 80505	CORRECT DRAFTING ERROR		10-1-80 10-1-80	10-1-80
D	ECO 83157	UPDATE SCHEMATIC		9-1-83 9-1-83	9-1-83

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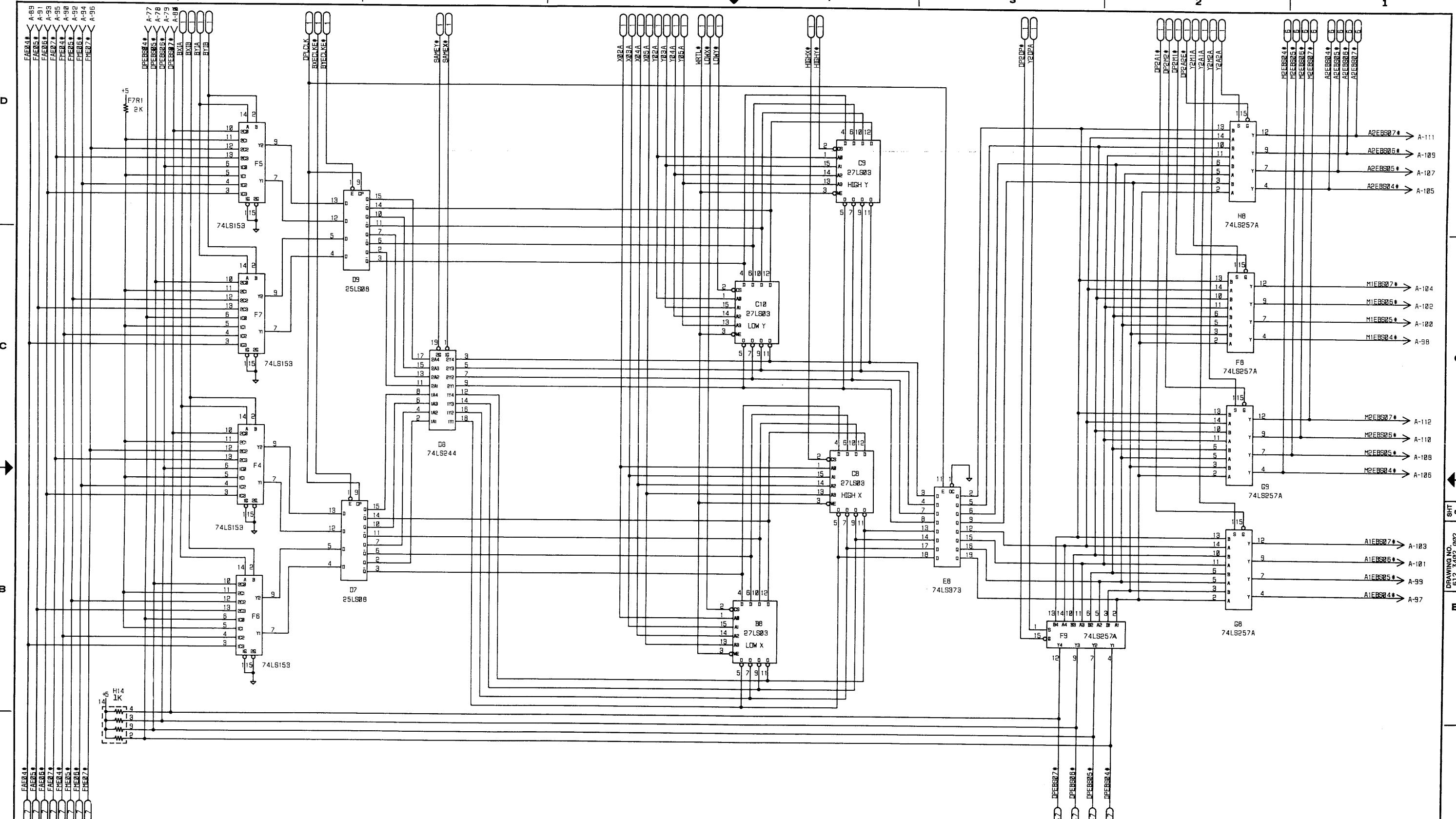
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PROJ. ENG.	MICHAEL STANBRO	DATE	8-1-79
DRAWN BY	C.R.O.	DATE	7-7-79
CHECK BY	LATE: WILLIAMS	DATE	7-5-79
MEG. ENG.	Aut. Bofers	DATE	8-15-79
DRAWING TITLE	SCHEMATIC ECB	402-B	
DATA PAD LEFT (EXPONENT BITS 0-3)			
SIZE	CODE IDENT. NO.	DRAWING NO.	512-3402-002
REV.	D		

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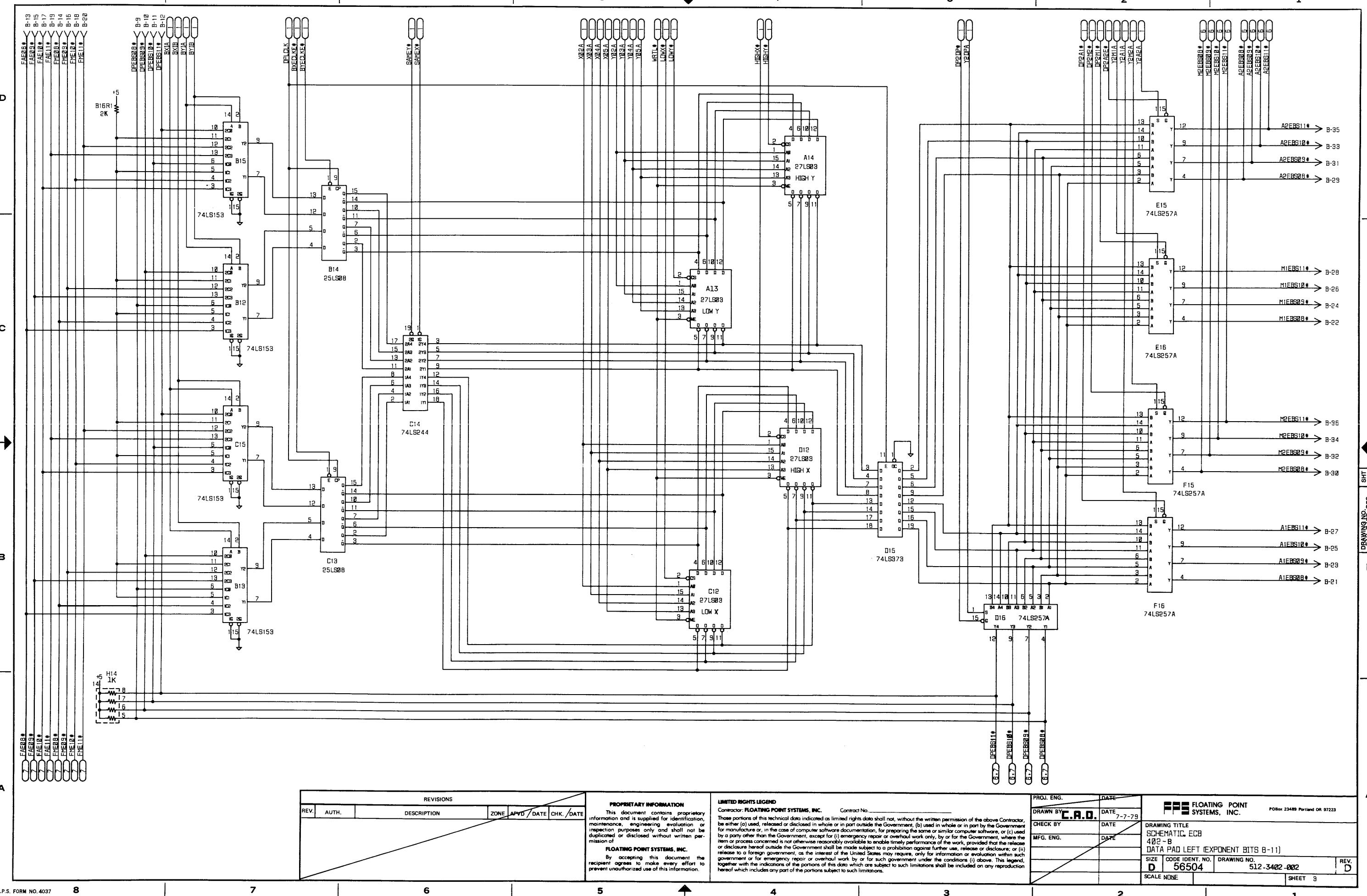
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PROJ. ENG.	DATE	
DRAWN BY C.R.D.	DATE 7-7-79	
CHECK BY	DATE	
MFG. ENG.	DATE	
DRAWING TITLE		
SCHEMATIC E&C		
402-B		
DATA PAD LEFT (EXPONENT BITS 4-7)		
SIZE D	CODE IDENT. NO. 56504	DRAWING NO. 512-3402-002
SCALE NONE	REV. C	
SHEET 2		



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REV.	AUTH.	DESCRIPTION	ZONE	APVD / DATE	CHK. / DATE

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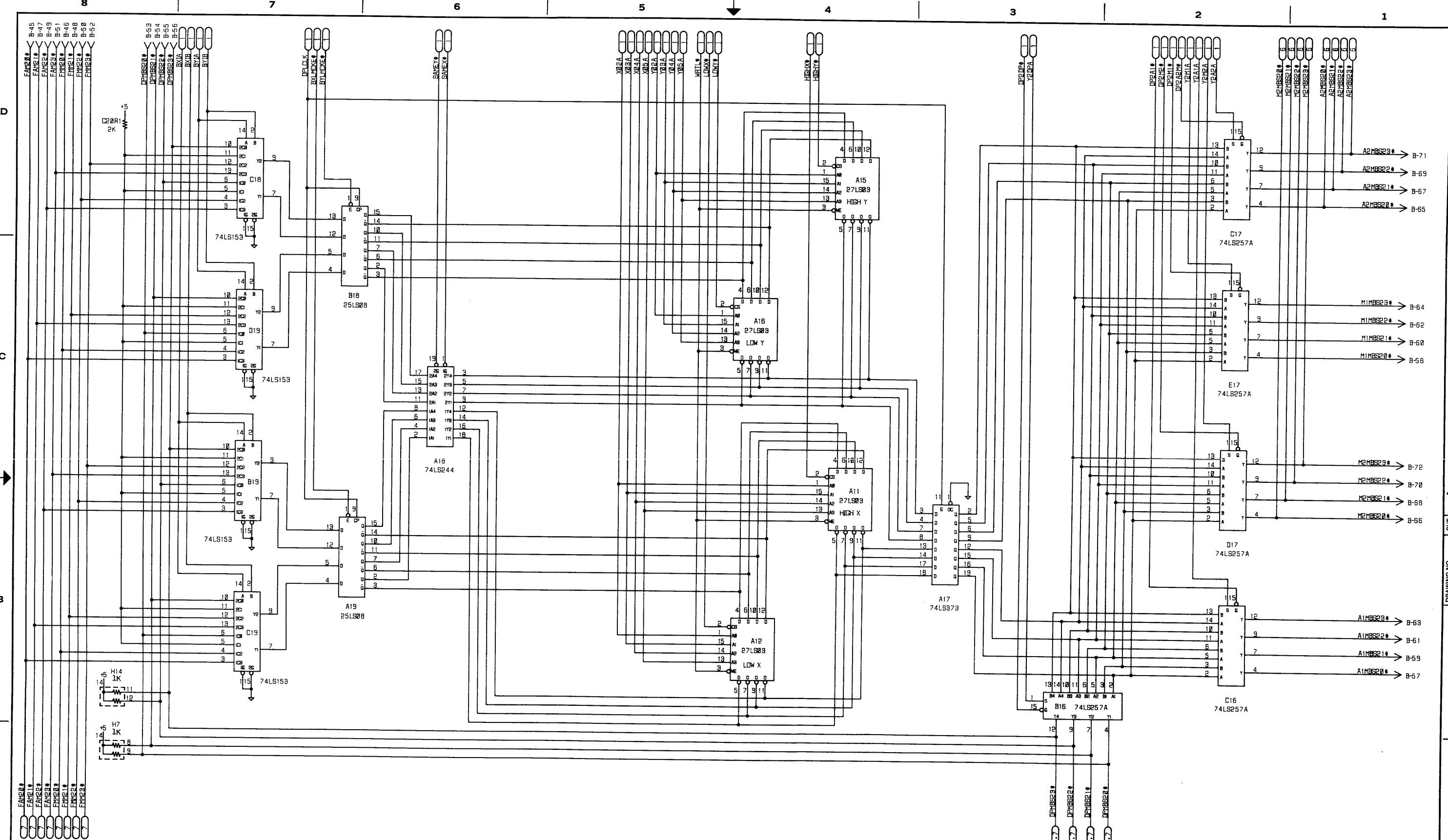
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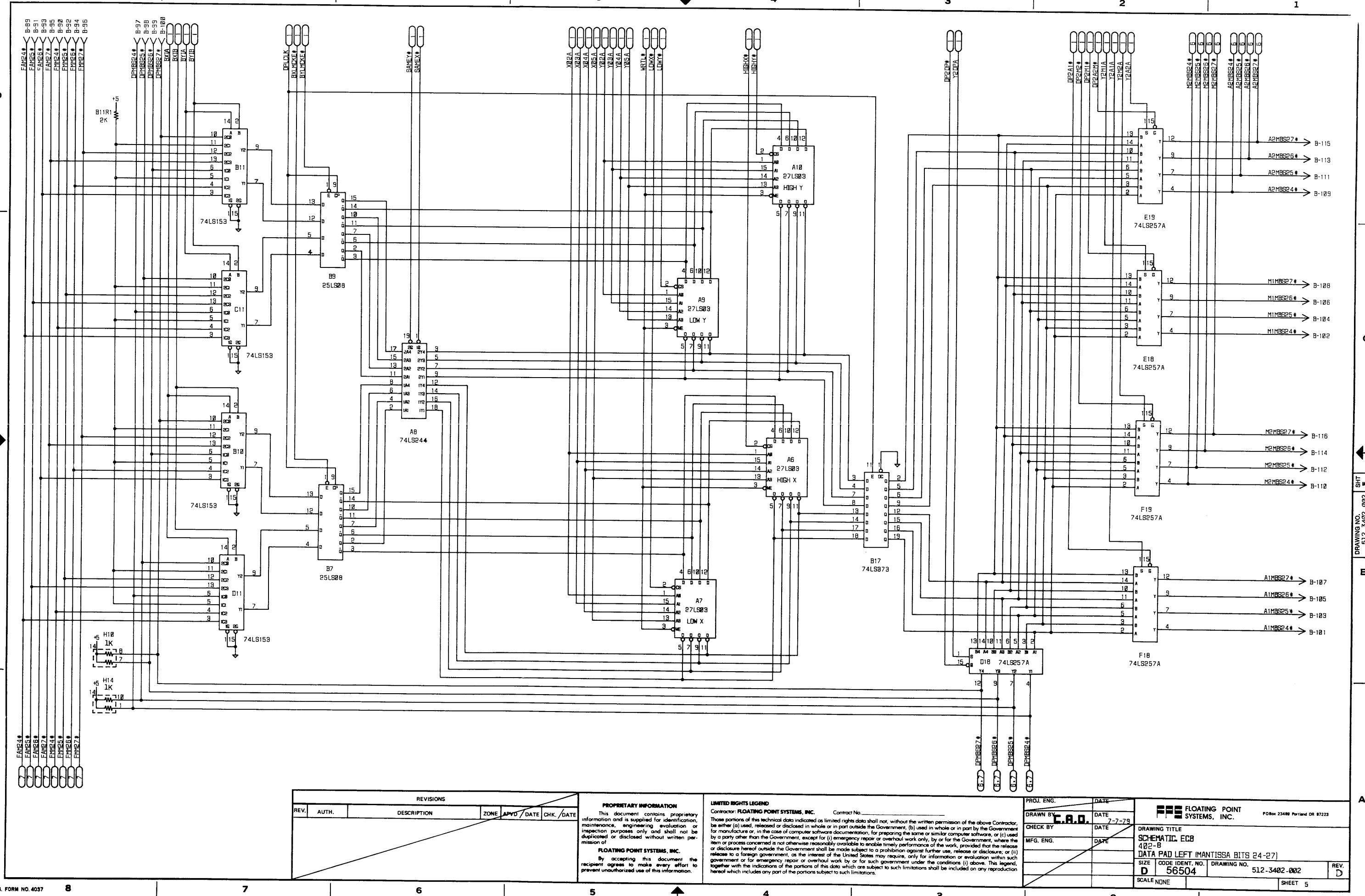
PROJ. ENG.	DATE
DRAWN BY C.A.O.	DATE 7-7-79
CHECK BY	DATE
MFG. ENG.	DATE

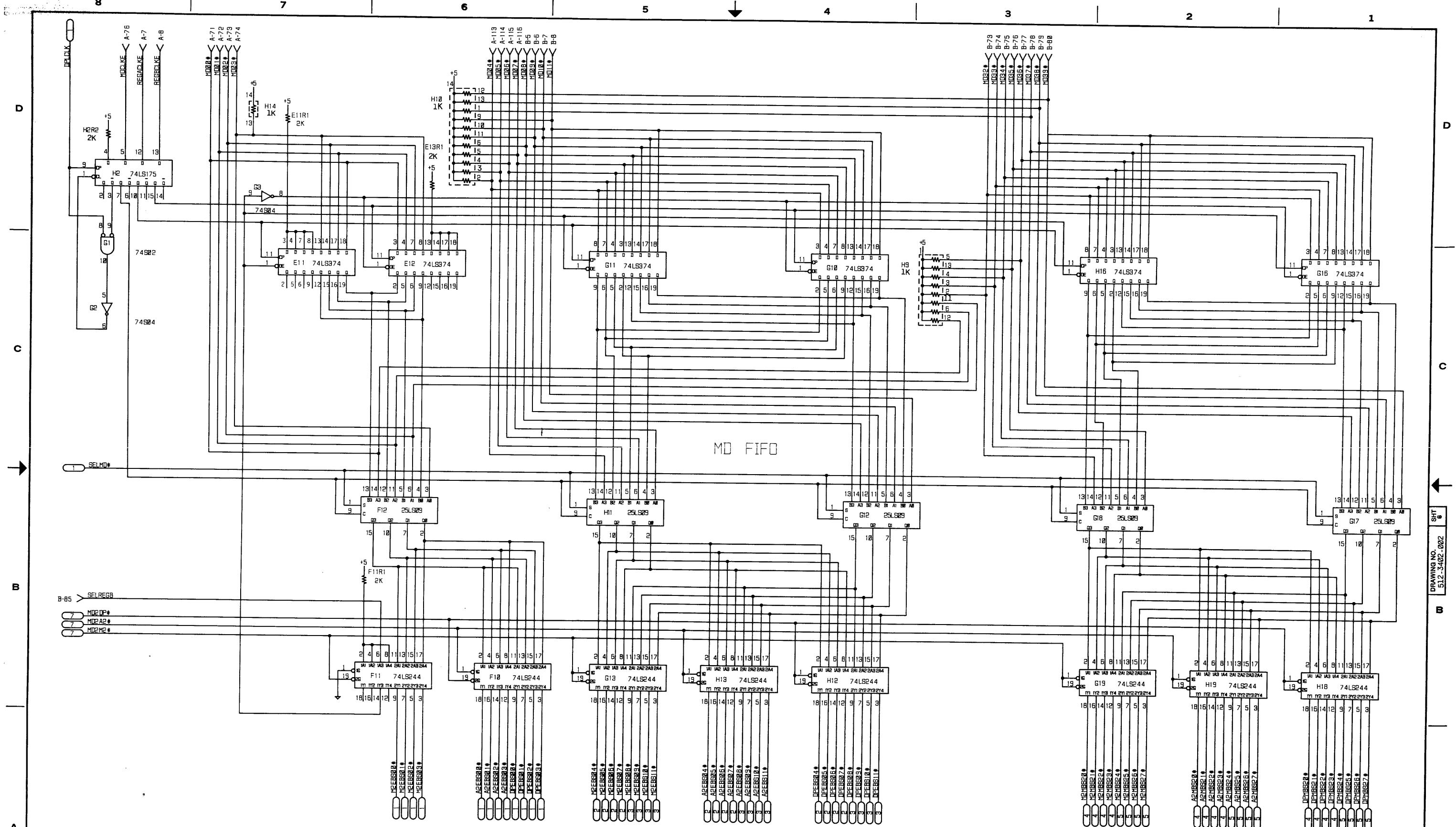
FLOATING POINT SYSTEMS, INC.
POBox 23489 Portland OR 97223
DRAWING TITLE
SCHEMATIC ECB
402-B
DATA PAD LEFT (EXPONENT BITS B-11)

SIZE	CODE IDENT. NO.	DRAWING NO.
D	56504	512-3402-002
		REV. D
		SHEET 3

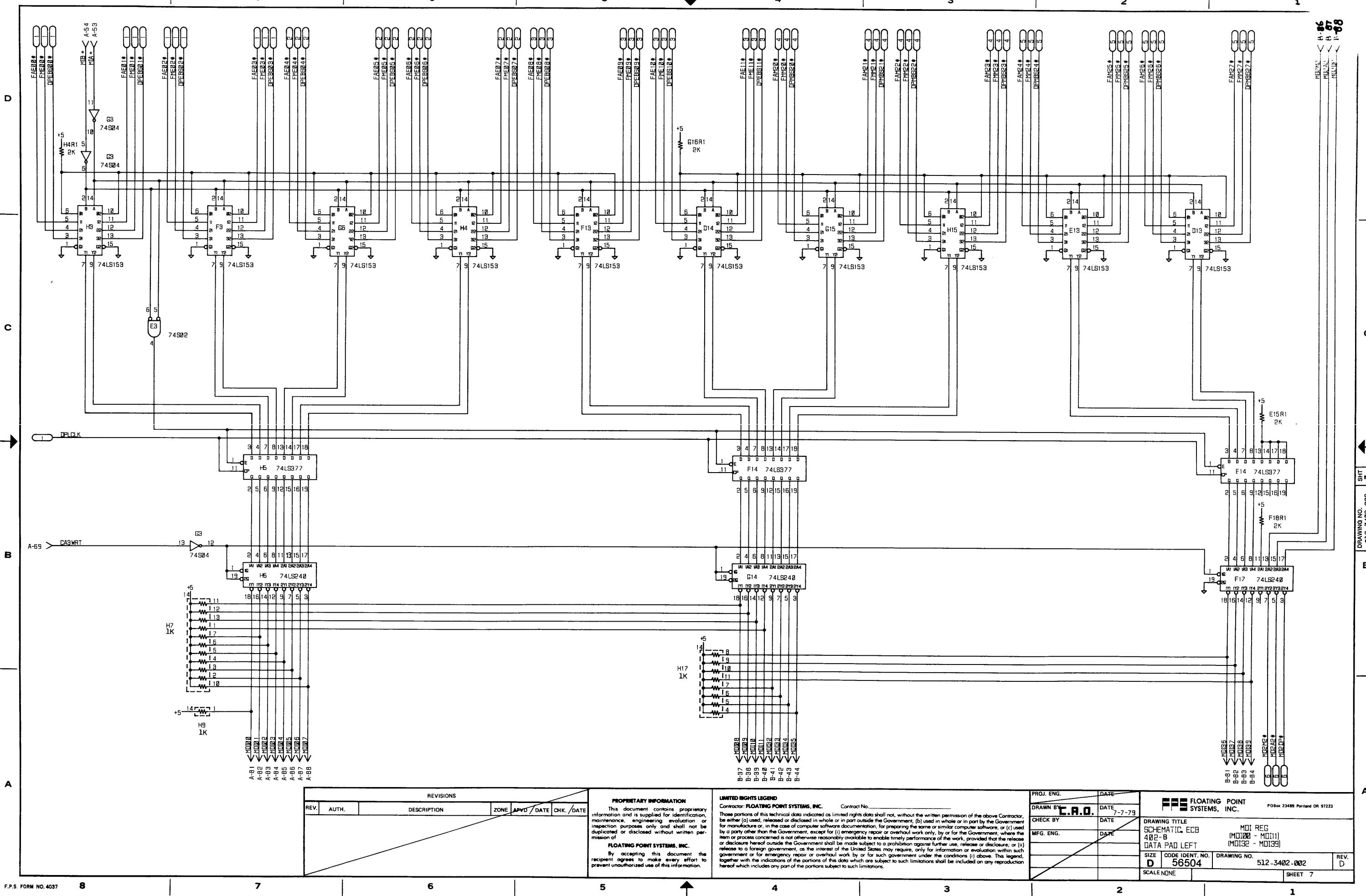


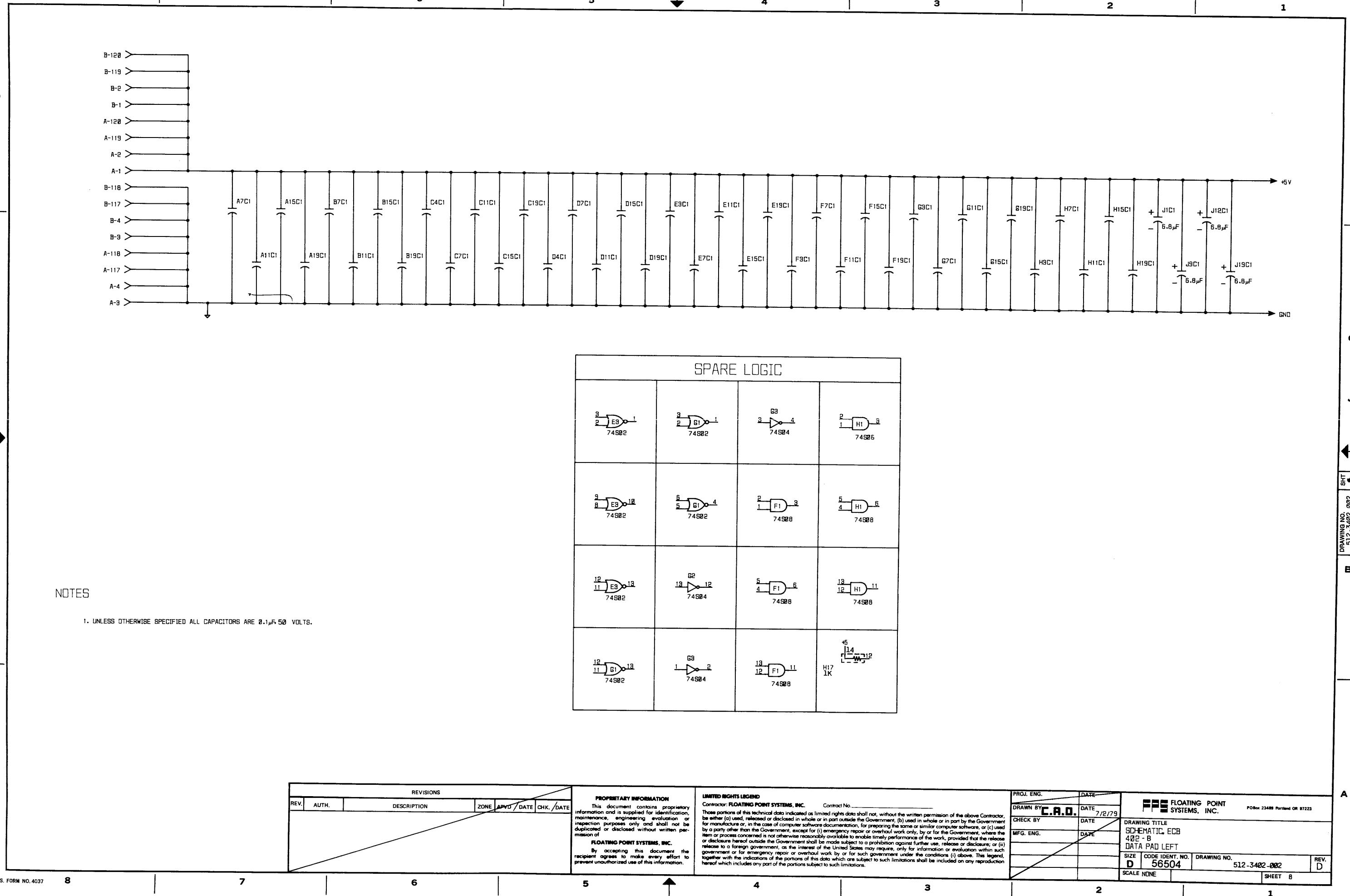
REVISIONS						PROPRIETARY INFORMATION		LIMITED RIGHTS LEGEND		PROJ. ENG.		DRAWN BY		FLEATING POINT SYSTEMS, INC.			
REV.	AUTH.	DESCRIPTION		ZONE	APVD / DATE	CHK / DATE	Contractor: FLEATING POINT SYSTEMS, INC. Contract No. _____				DATE		DATE	C.A.D.	POBox 23489 Portland OR 97223		
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										DATE		CODE IDENT. NO.	56504	DRAWING NO.	512-3402-002	REV. D	
										SCALE NONE		SHEET	4				

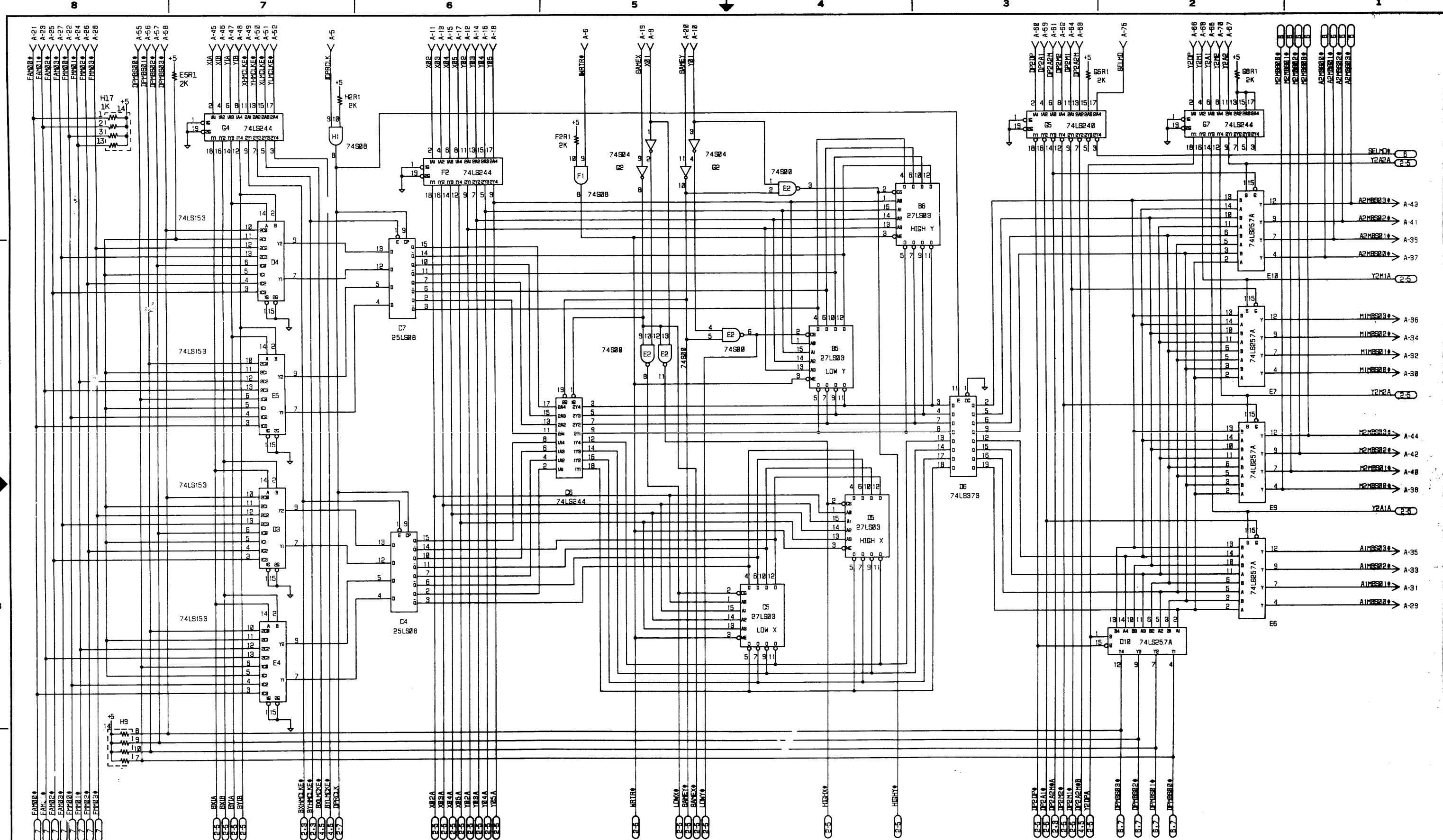




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PROJ. ENG. DRAWN BY C.R.O.		DATE DATE 7-7-79		 FLOATING POINT SYSTEMS, INC. POBox 23488 Portland OR 97223	
CHECK BY MFG. ENG.		DATE DATE		DRAWING TITLE SCHEMATICS ECB MD REG 402-B (MD00* - MD1*) (MD32* - MD39*) DATA PAD LEFT	
SIZE D		CODE IDENT. NO. 56504		DRAWING NO. 512-3402-002	
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				SCALE NONE	
				SHEET 6	





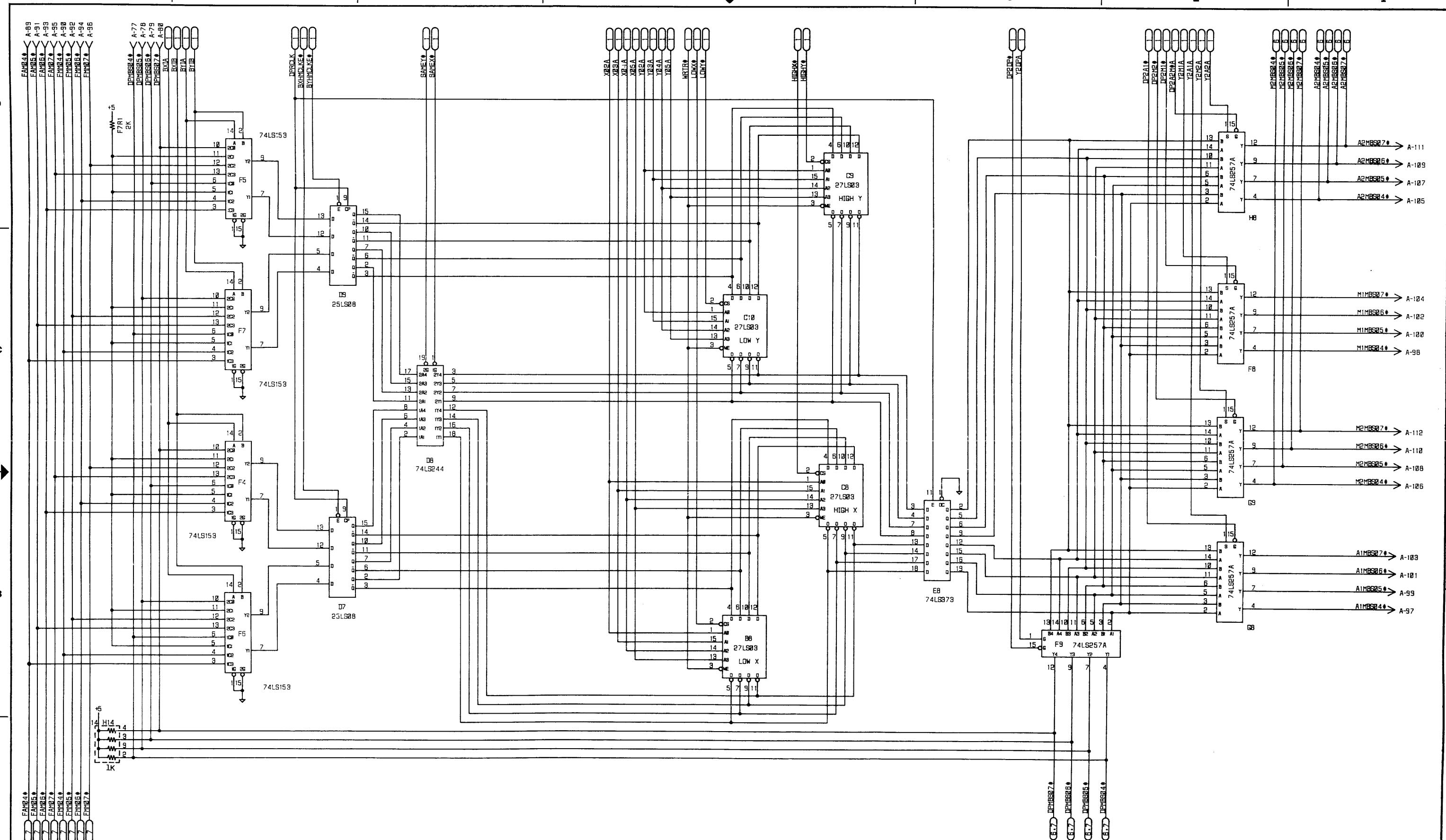


REVISIONS					
REV.	AUTH.	DESCRIPTION	ZONE	APV'D / DATE	CHK'D / DATE
01	EN #41	INITIAL LEVEL 2 RELEASE		6/26/79	
A	ECO 80063	LEVEL 3 RELEASE		7/17/80	7/17/80
B	ECO 80259	ADD RESISTOR PULLUPS		9-1-80	8-9-80
C	ECO 80505	CORRECT DRAFTING ERROR		10-25-81	10-25-81

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PROJ. ENG.	MICHAEL STANERO	DATE	7-30-79	FLOATING POINT SYSTEMS, INC.
DRAWN BY	C.R.D.	DATE	7/2/79	PO Box 23488 Portland OR 97223
CHECK BY		DATE	7-30-79	
MFG. ENG.	H. R. BROWN	DATE	8-23-79	DRAWING TITLE SCHEMATIC ECD 402-B DATA PAD RIGHT (MANTISSA) BITS 0-8
SIZE	CODE IDENT. NO.	DRAWING NO.	D 56504	512-3402-003
SCALE	None	REV.	C	SHEET 1 OF 8



REVISIONS					
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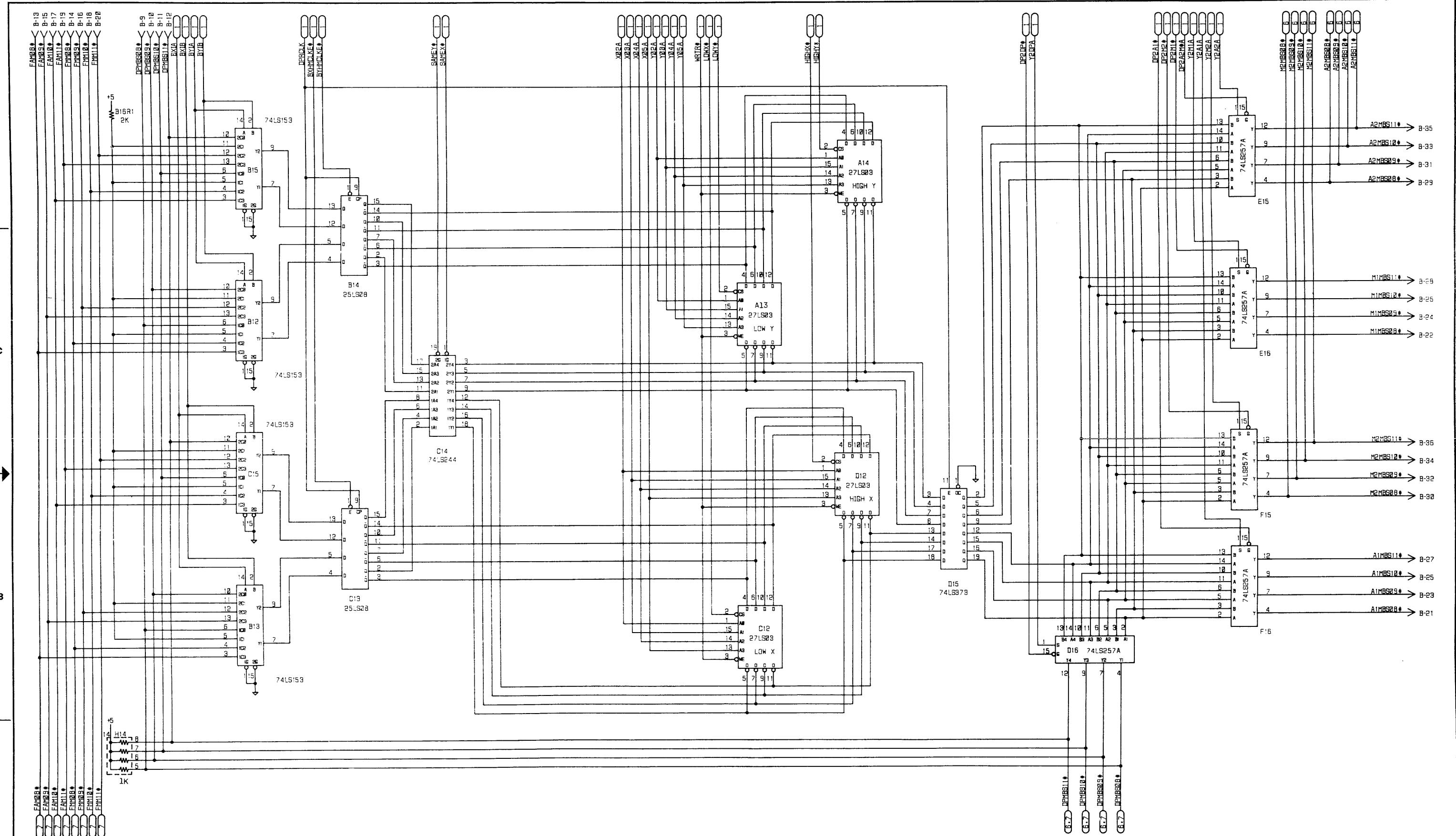
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C.R.D.	7/2/79		
CHECK BY	DATE		
MFG. ENG.	DATE		
DRAWING TITLE		SCHEMATIC ECB	
402-B			
DATA PAD RIGHT (MANTISSA BITS 4-7)			
SIZE	CODE IDENT. NO.	DRAWING NO.	REV.
D	56504	512-3402-003	C
SCALE NONE		SHEET 2 OF 8	



REVISIONS					
REV.	AUTH.	DESCRIPTION	ZONE	APVD / DATE	CHK. / DATE

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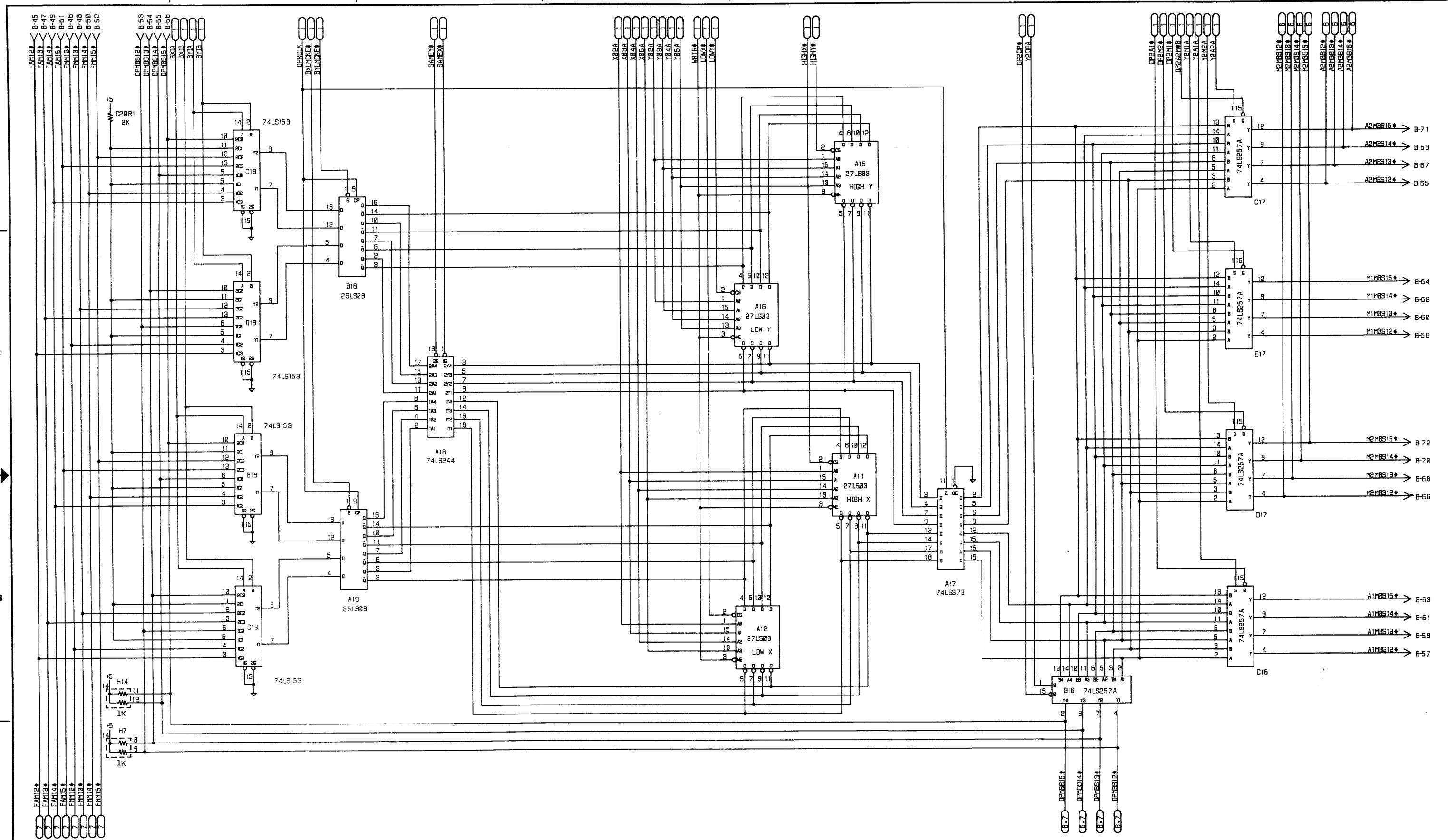
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DRAWN BY	DATE	PO Box 23489 Portland OR 97223
C.R.D.	7/2/79	
CHECK BY	DATE	
MFG. ENG.	DATE	
DRAWING TITLE		SCHEMATIC ECB
		402- B
		DATA PAD RIGHT (MANTISSA BITS B-11)
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REV.	C	
SCALE NONE	SHEET 3 OF 8	

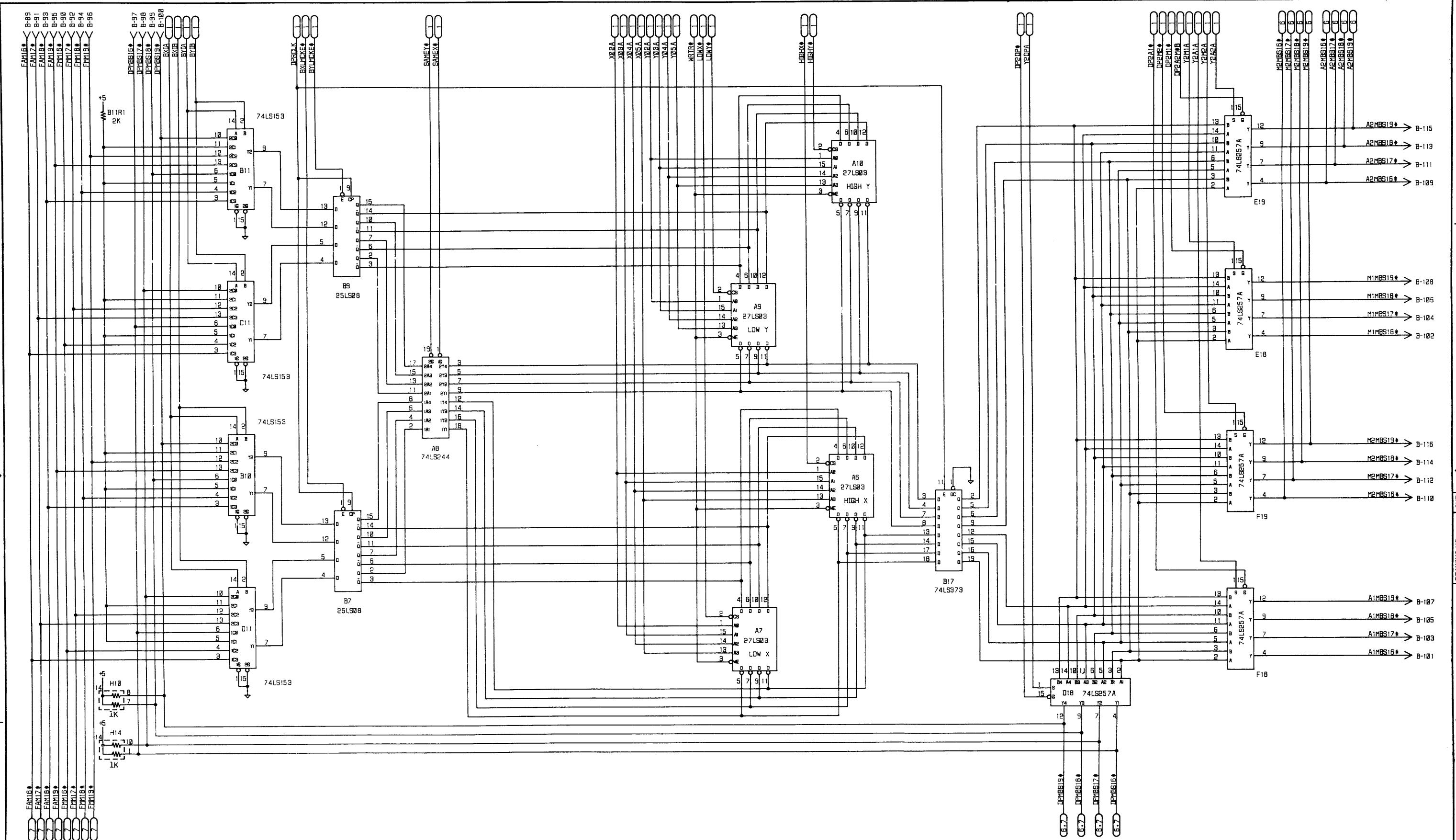


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MFG. ENG.	DATE	
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D	56504	512-3402-003
SCALE NONE		REV. C



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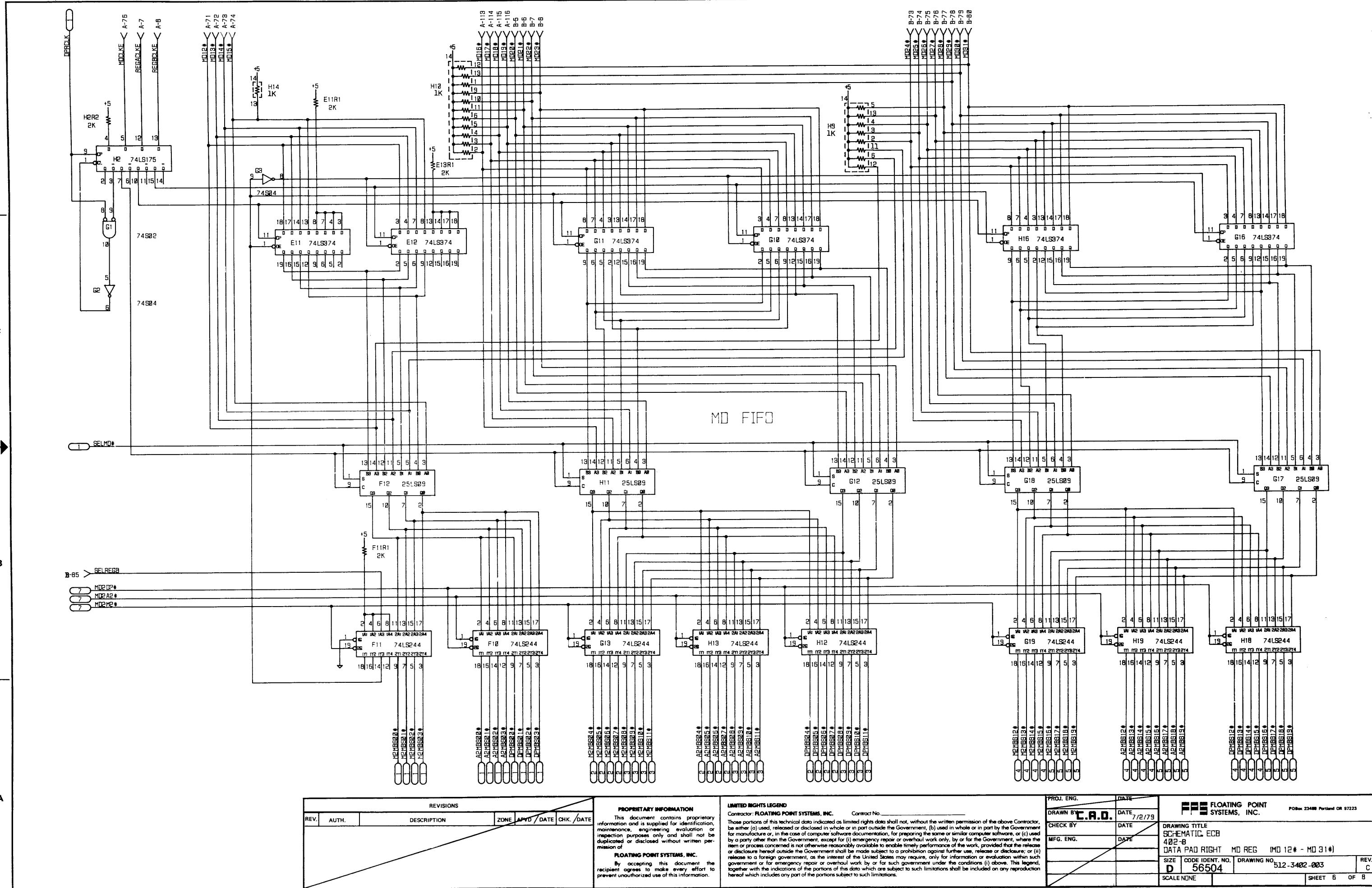
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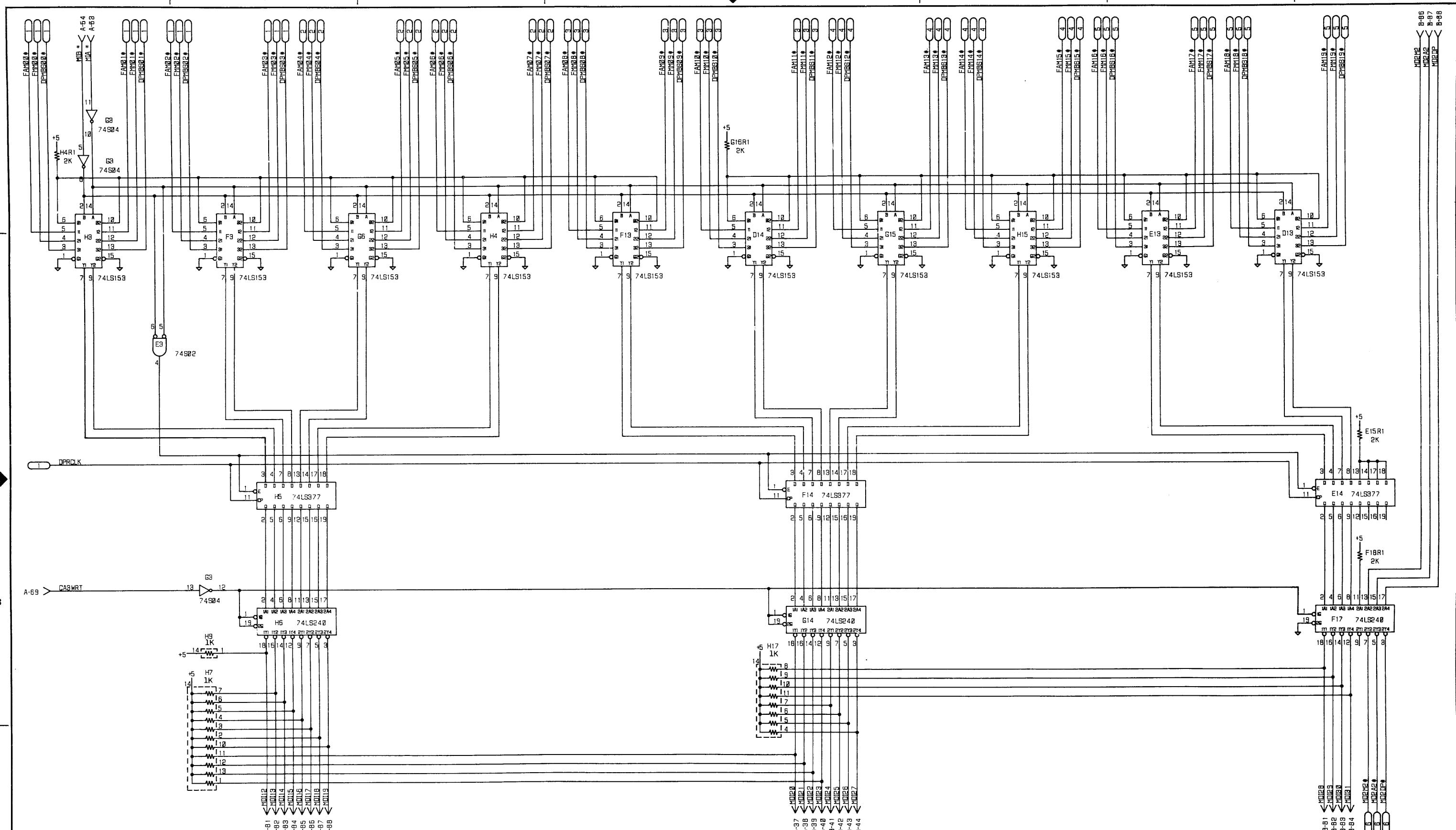
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DRAWN BY	DATE	POBox 23489 Portland OR 97223
C.R.D.	7/2/79	
CHECK BY	DATE	
MFG. ENG.	DATE	
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		SCHEMATIC ECD
		402-B
		DATA PAD RIGHT (MANTISSA BITS 16-19)
SIZE	CODE IDENT. NO.	DRAWING NO.
D	56504	512-3402-003
SCALE	REV.	C
NONE		
SHEET	5	OF 8





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REV.	AUTH.	DESCRIPTION	ZONE	APVD / DA

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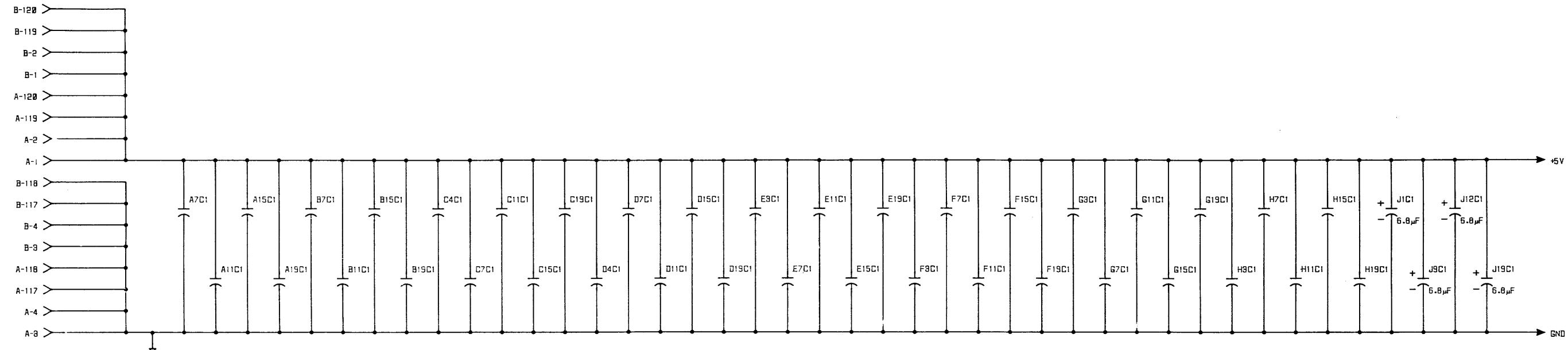
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MAWN BY	C.R.O.	DATE	7/2/79	
HECK BY		DRAWING TITLE		
F.G. ENG.	DATE	SCHMATIC ECB		
		402-B		
		DATA PAD RIGHT MDI REG (MDI12-MDI13)		
		SIZE	CODE IDENT. NO.	DRAWING NO.
		D	56504	512-3402-003
		SCALE NONE		REV. C
				SHEET 7 OF 8

D



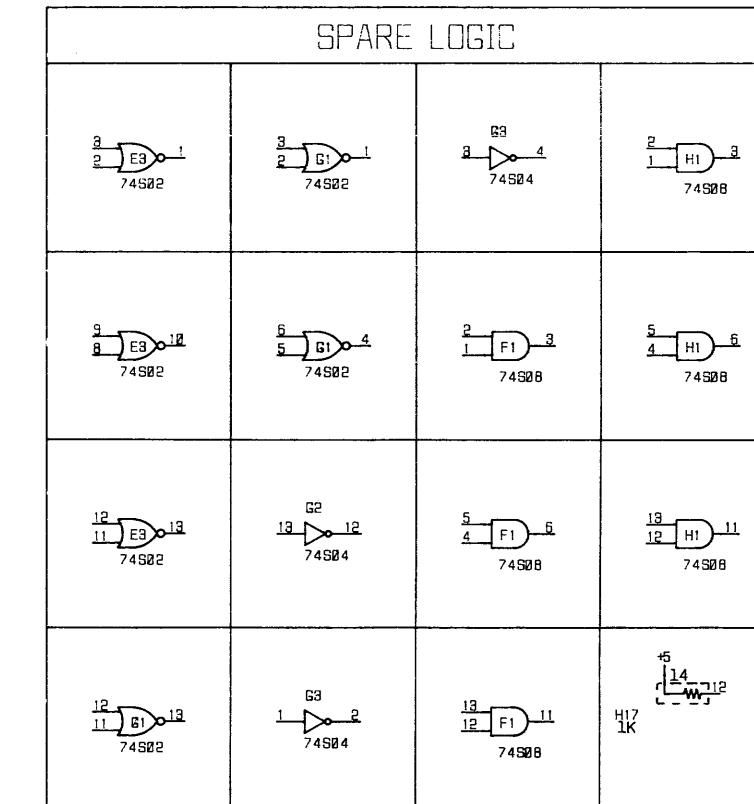
C

B

A

NOTES

1. UNLESS OTHERWISE SPECIFIED ALL CAPACITORS ARE $0.1\mu F$, 50 VOLTS.



REVISIONS					
REV.	AUTH.	DESCRIPTION	ZONE	APVD / DATE	CHK. / DATE

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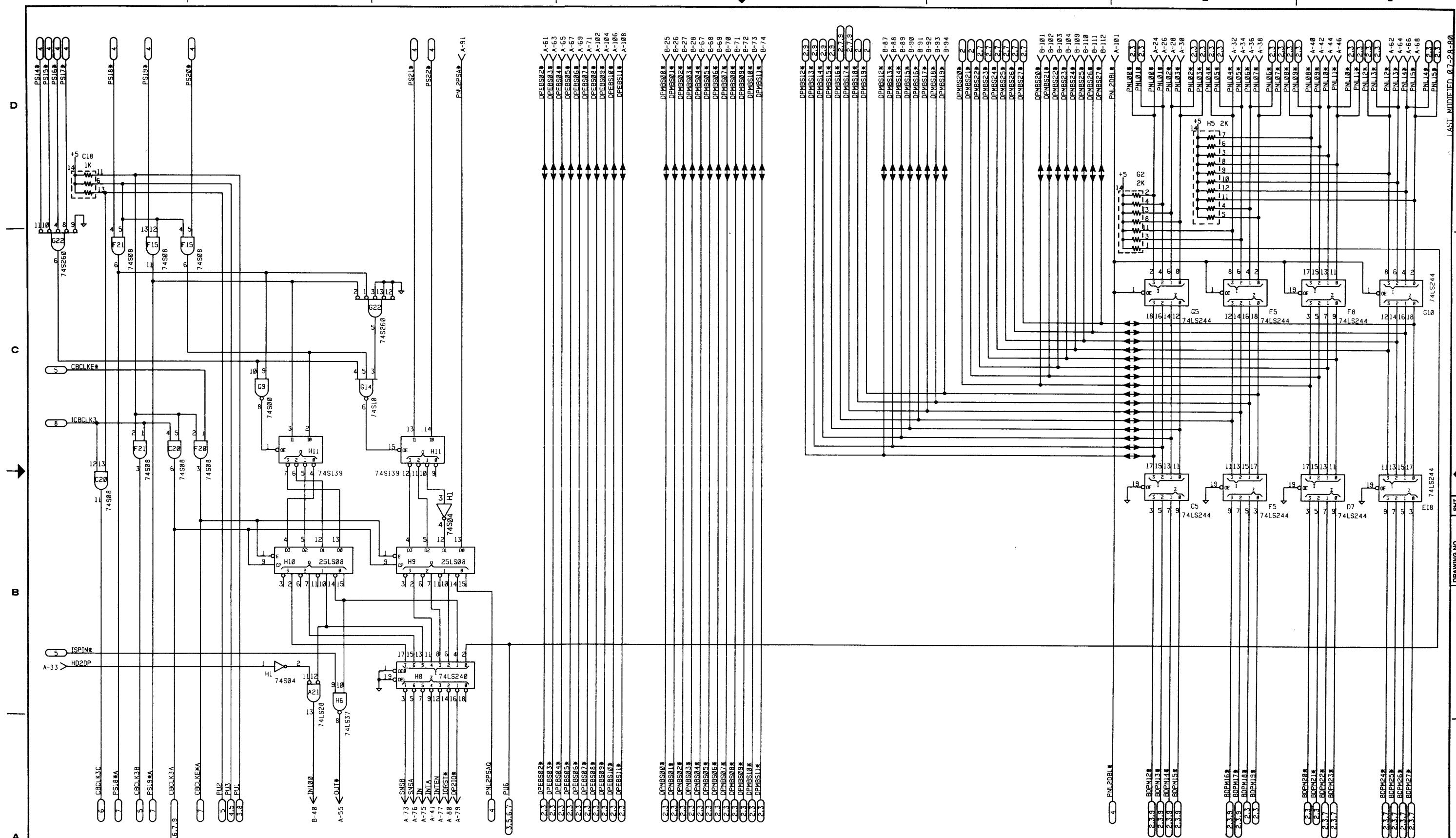
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DRAWN BY C.R.D.	DATE 7/2/79	POBox 23488 Portland OR 97223	
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MFG. ENG.	DATE	SCHEMATIC ECB	
		402-B	
		DATA PAD RIGHT	
SIZE D	CODE IDENT. NO. 56504	DRAWING NO. 512-3402-003	REV. C
SCALE NONE		SHEET B OF B	



REVISIONS			
REV.	AUTH.	DESCRIPTION	ZONE
E	ECO 82281	CHG J2C1,J11C1,J14C1,J24C1 FROM 6.8 35V TO 68 10V, SHT 10	

NOTES

 UNLESS OTHERWISE SPECIFIED, ALL CAPACITORS ARE 0.1MF 50 VOLTS

IMPORTANT NOTE: IGNORE DASHES IN PINOUTS (EXAMPLE:A-19).
THEY ARE FOR PURPOSES OF CLARITY ONLY.

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/ DATE	CHK. / DATE
S/24/92	J. Balman
S/20/92	
8/4/93	\$ 3.00

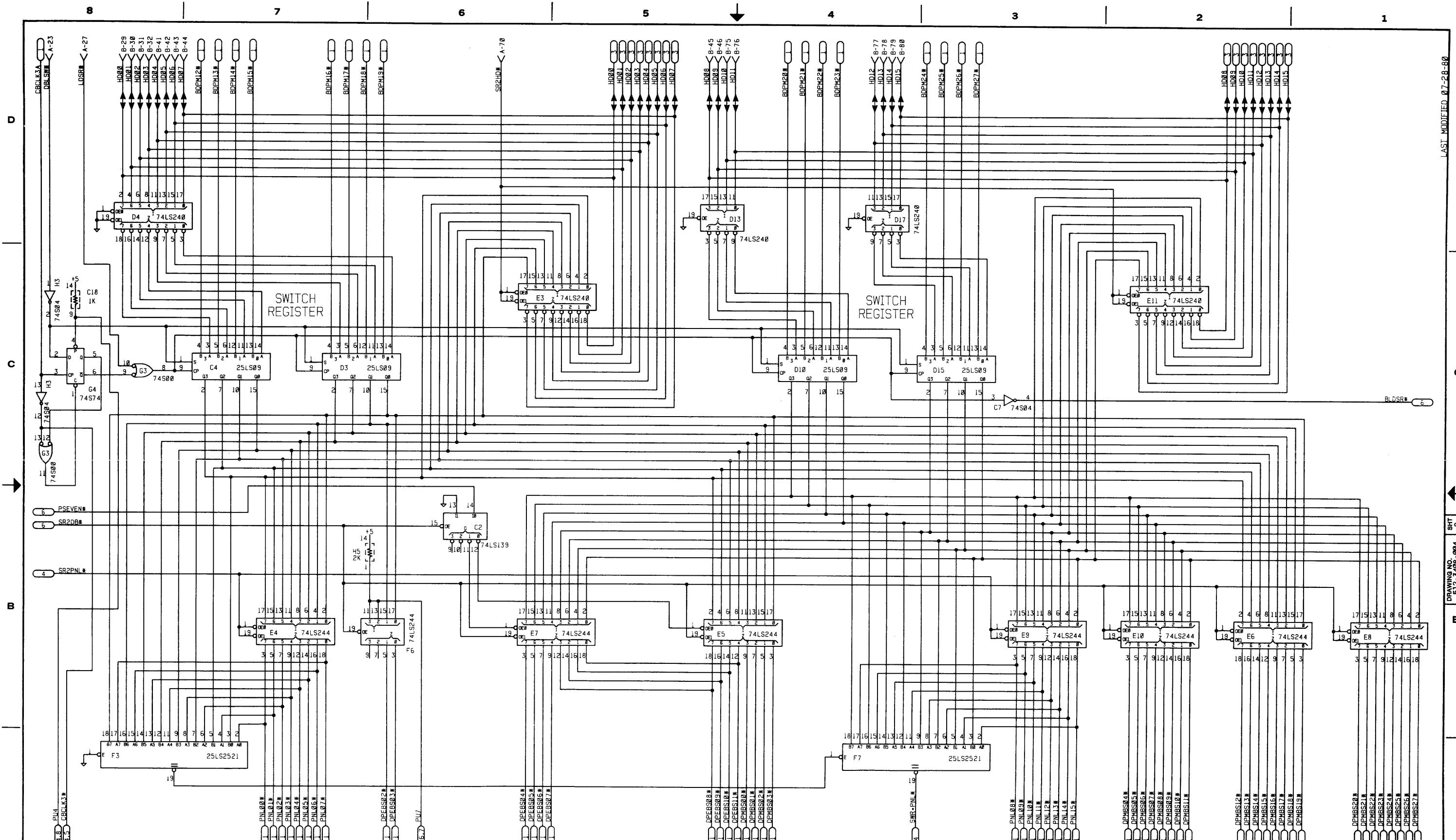
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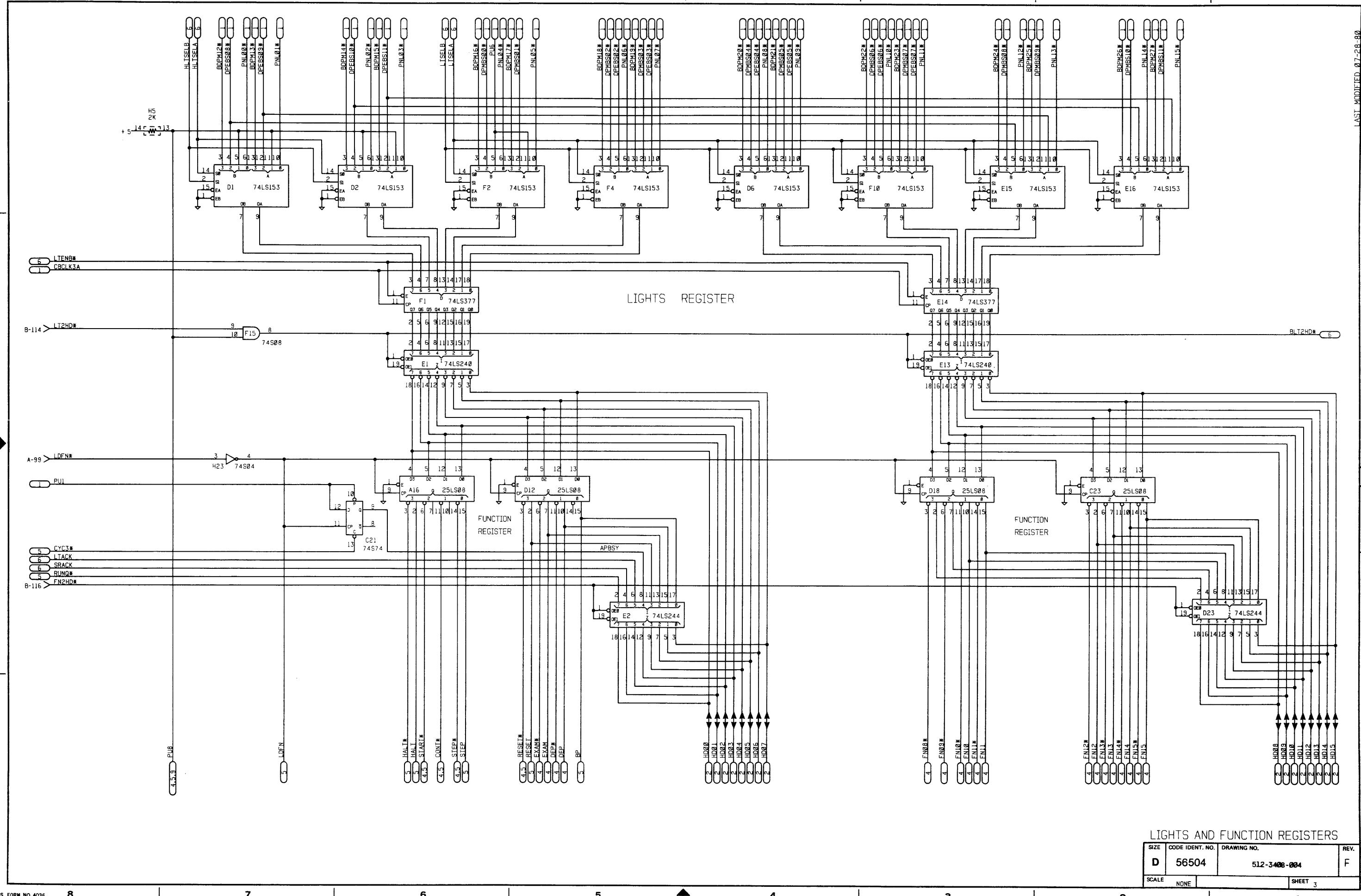
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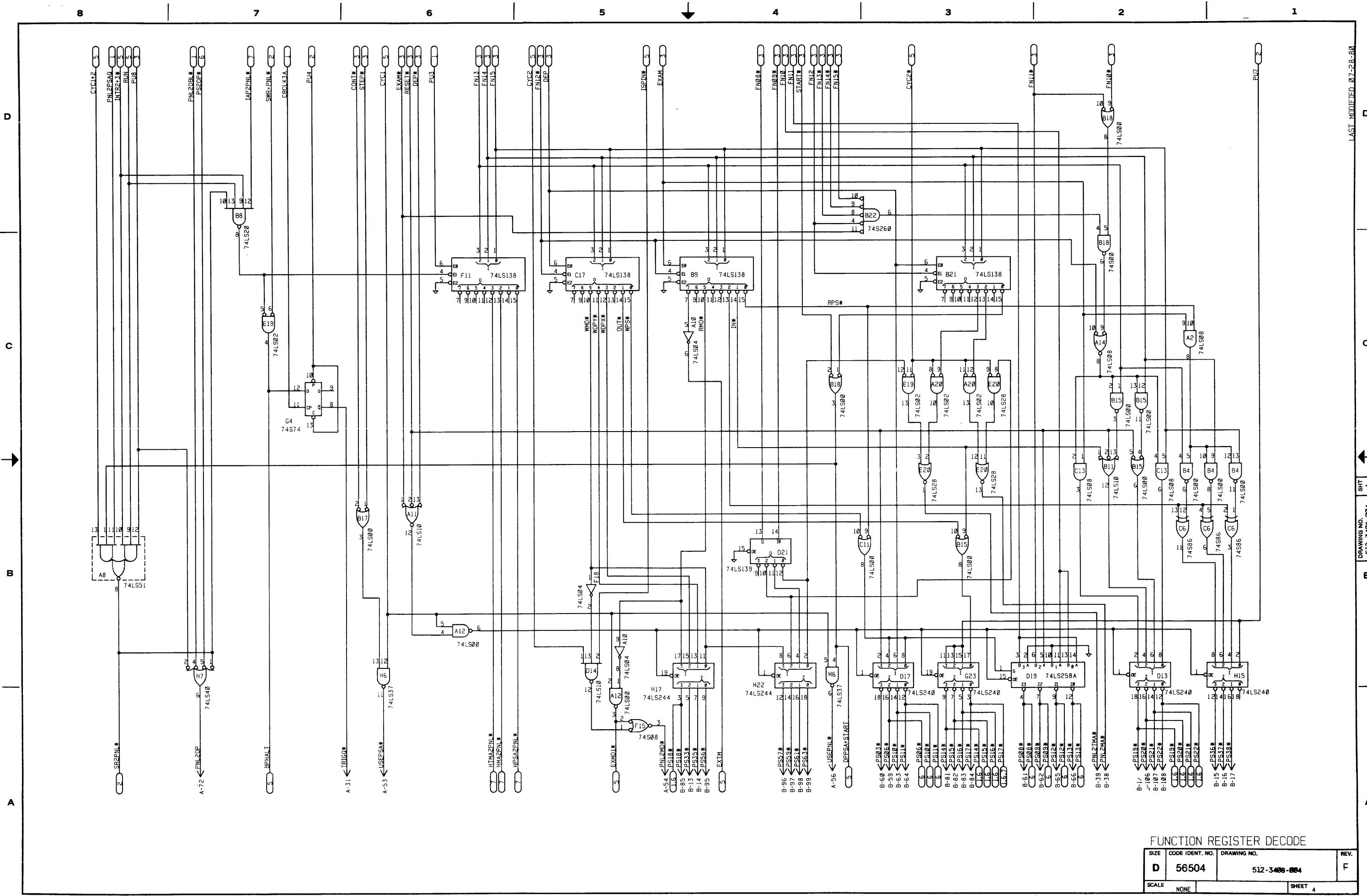
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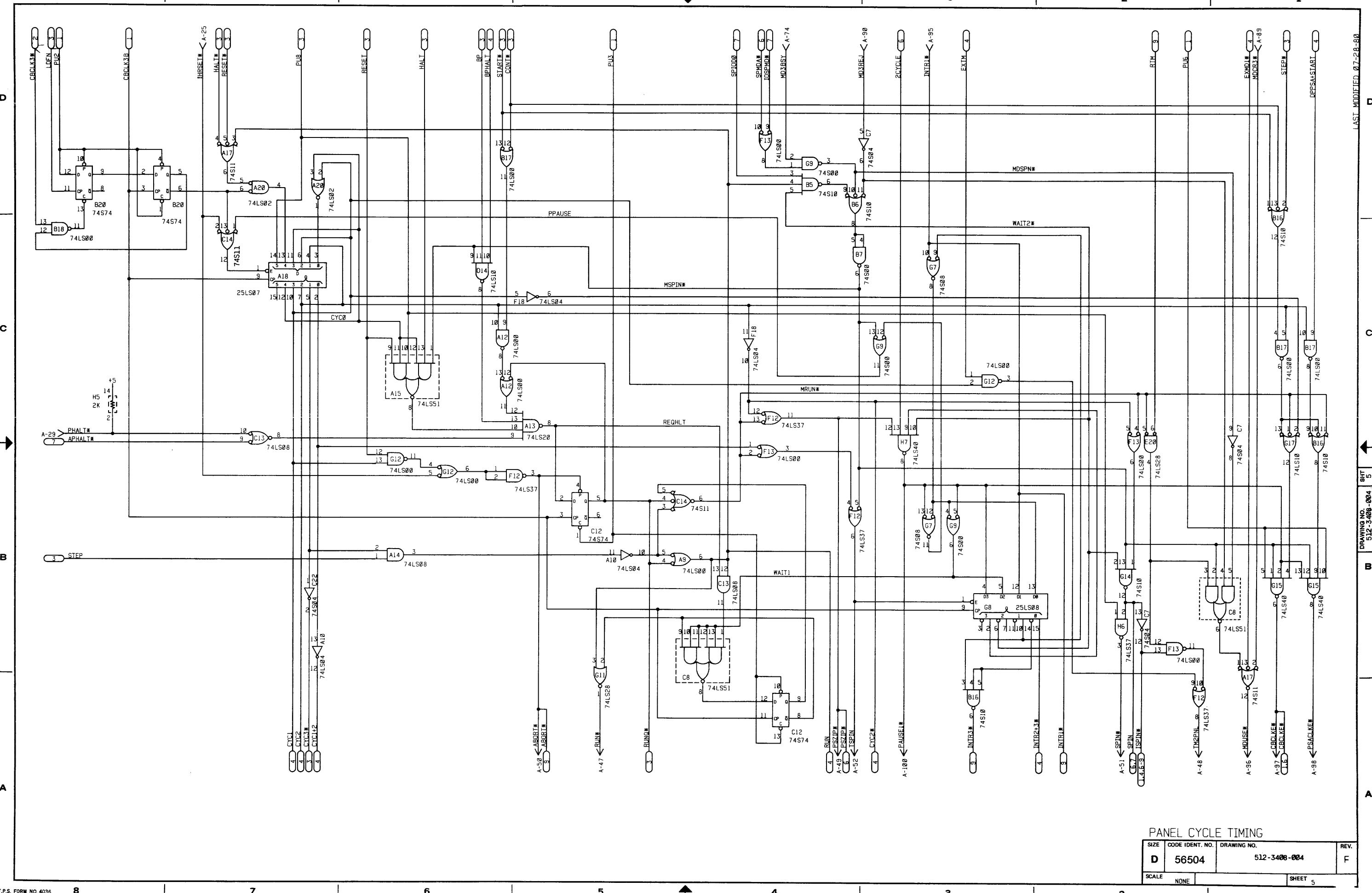


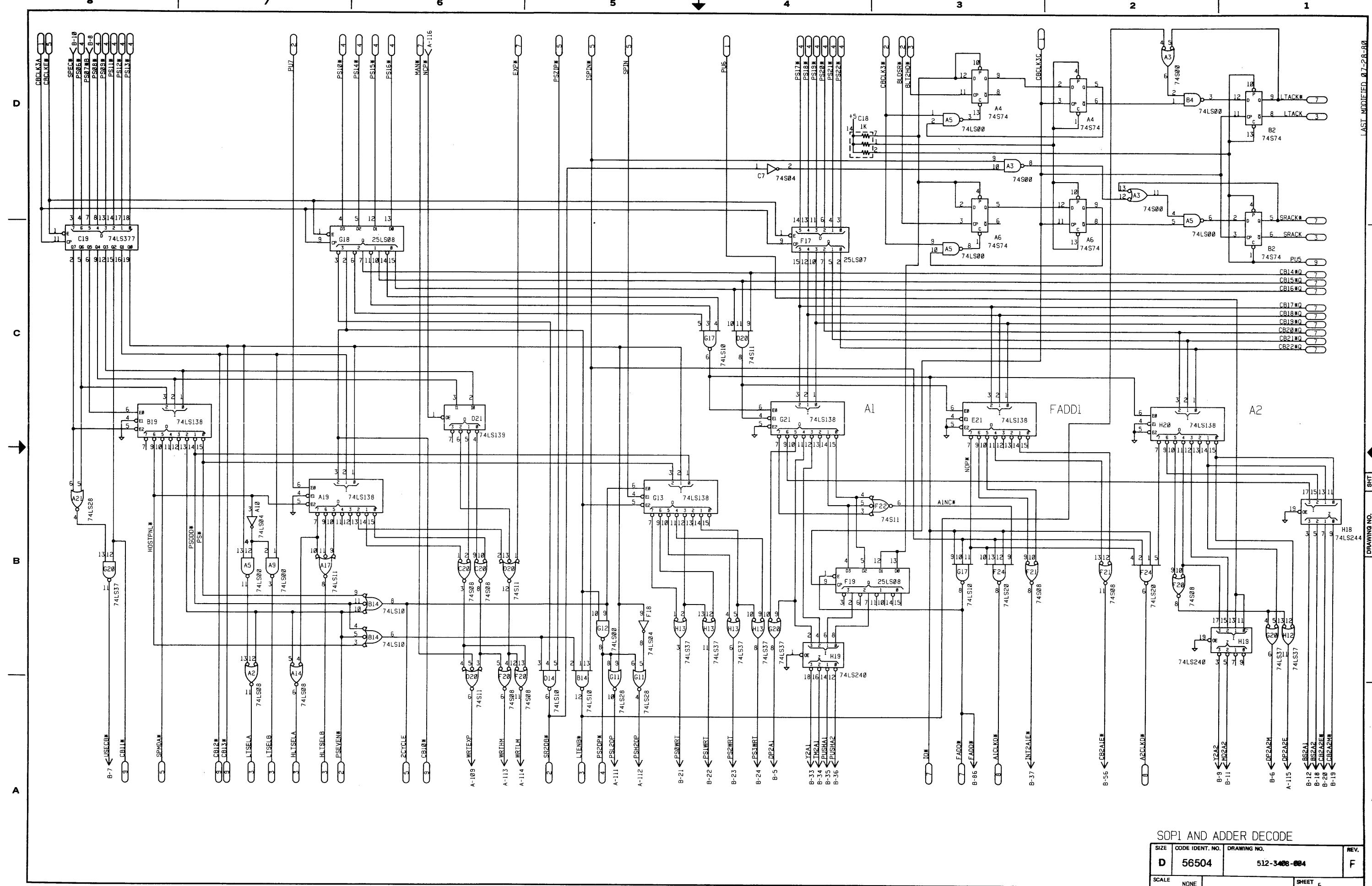
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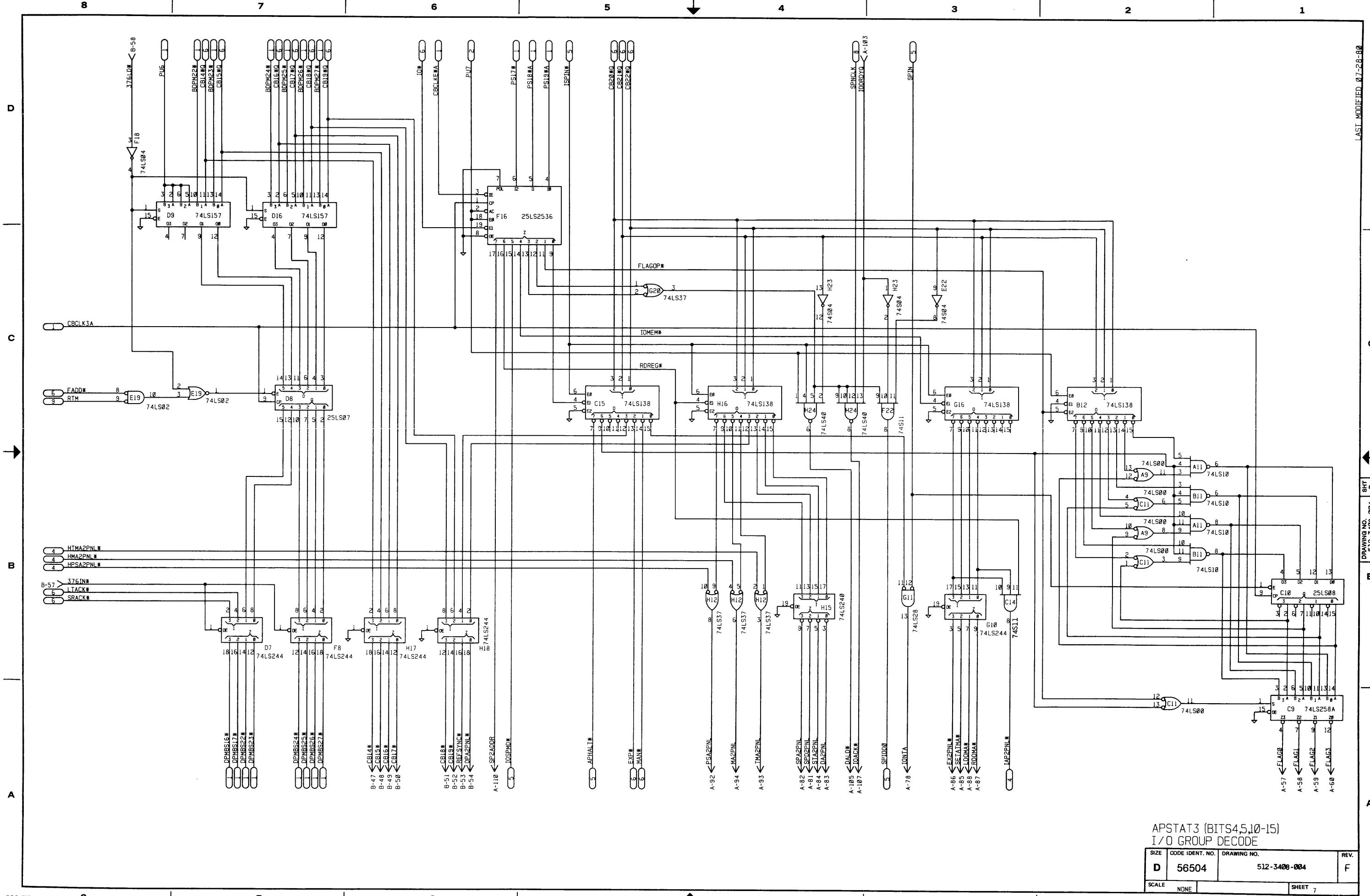
ZE	CODE IDENT. NO.	DRAWING NO.	REV.
D	56504	512-3408-004	F
ALE	NAME	SHEET	





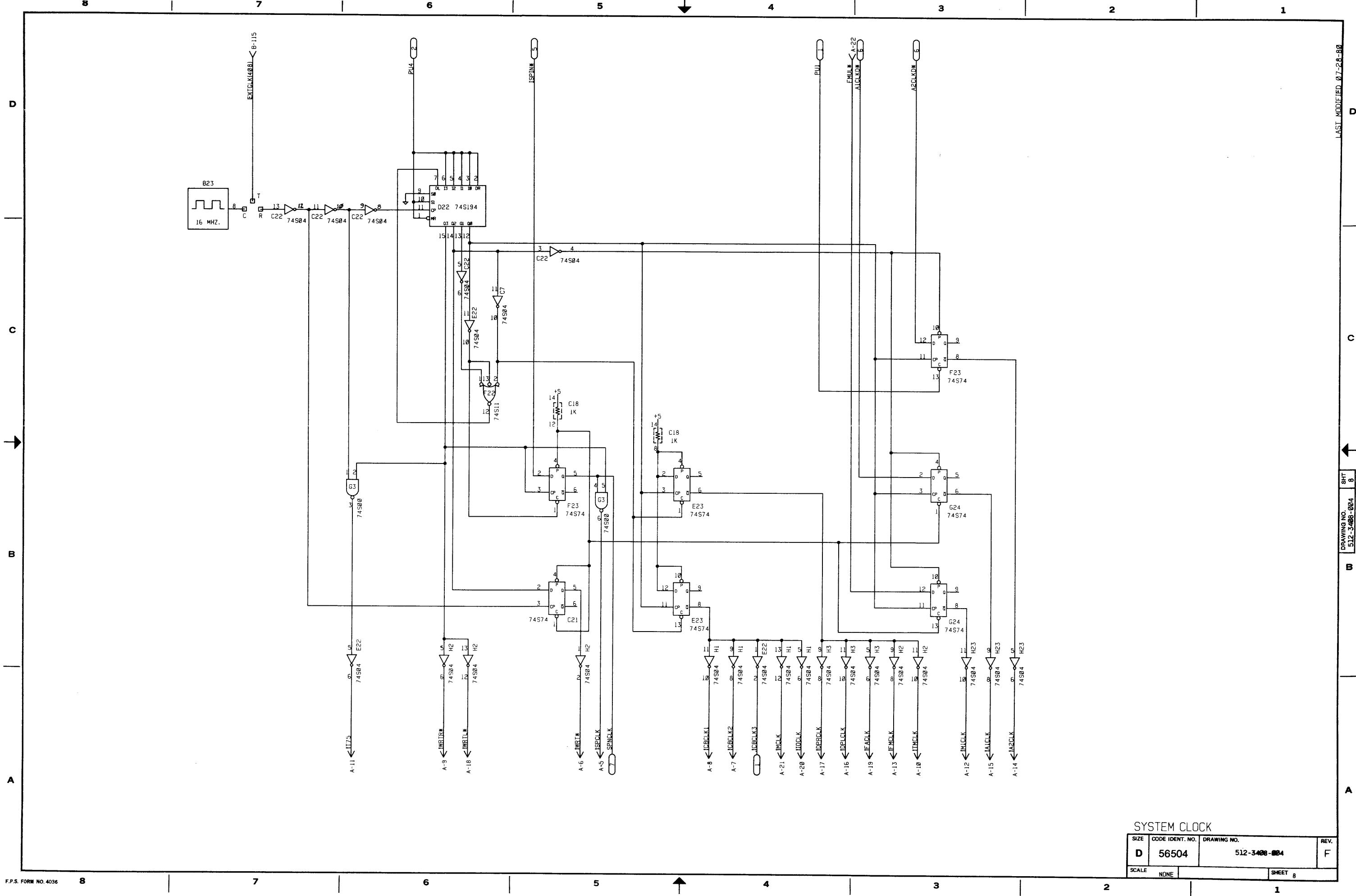






APSTAT3 (BITS4,5,10-15) I/O GROUP DECODE

SIZE	CODE IDENT. NO.	DRAWING NO.	REV.
D	56504	512-3408-004	F
SCALE	NONE	SHEET <u>7</u>	



F.P.S. FORM NO. 4036

7

6

5

4

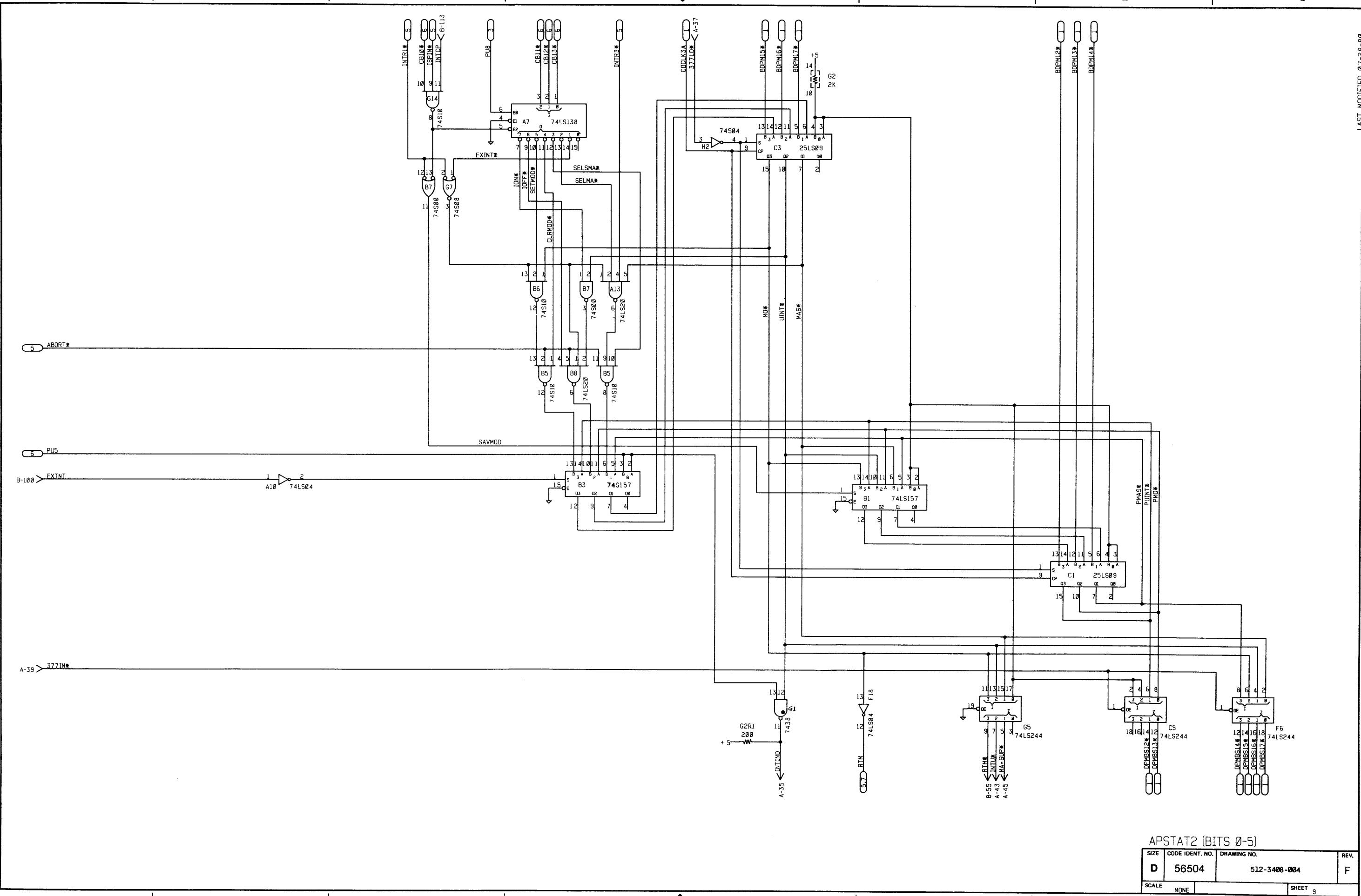
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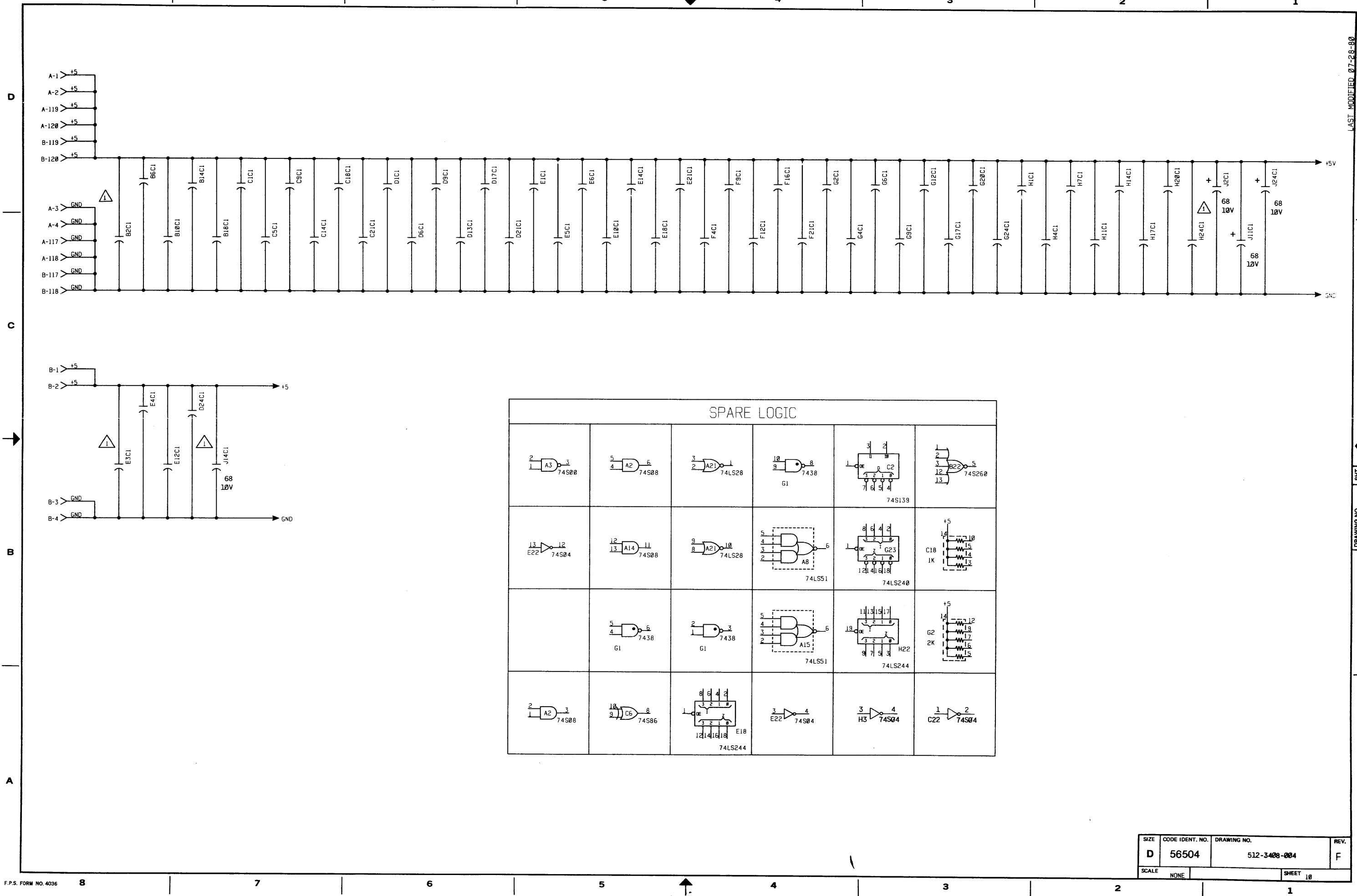
SYSTEM CLOCK

SIZE	CODE IDENT. NO.	DRAWING NO.	REV.
D	56504	512-3408-004	F
SCALE	NONE	SHEET 8	



APSTAT2 (BITS 0-5)

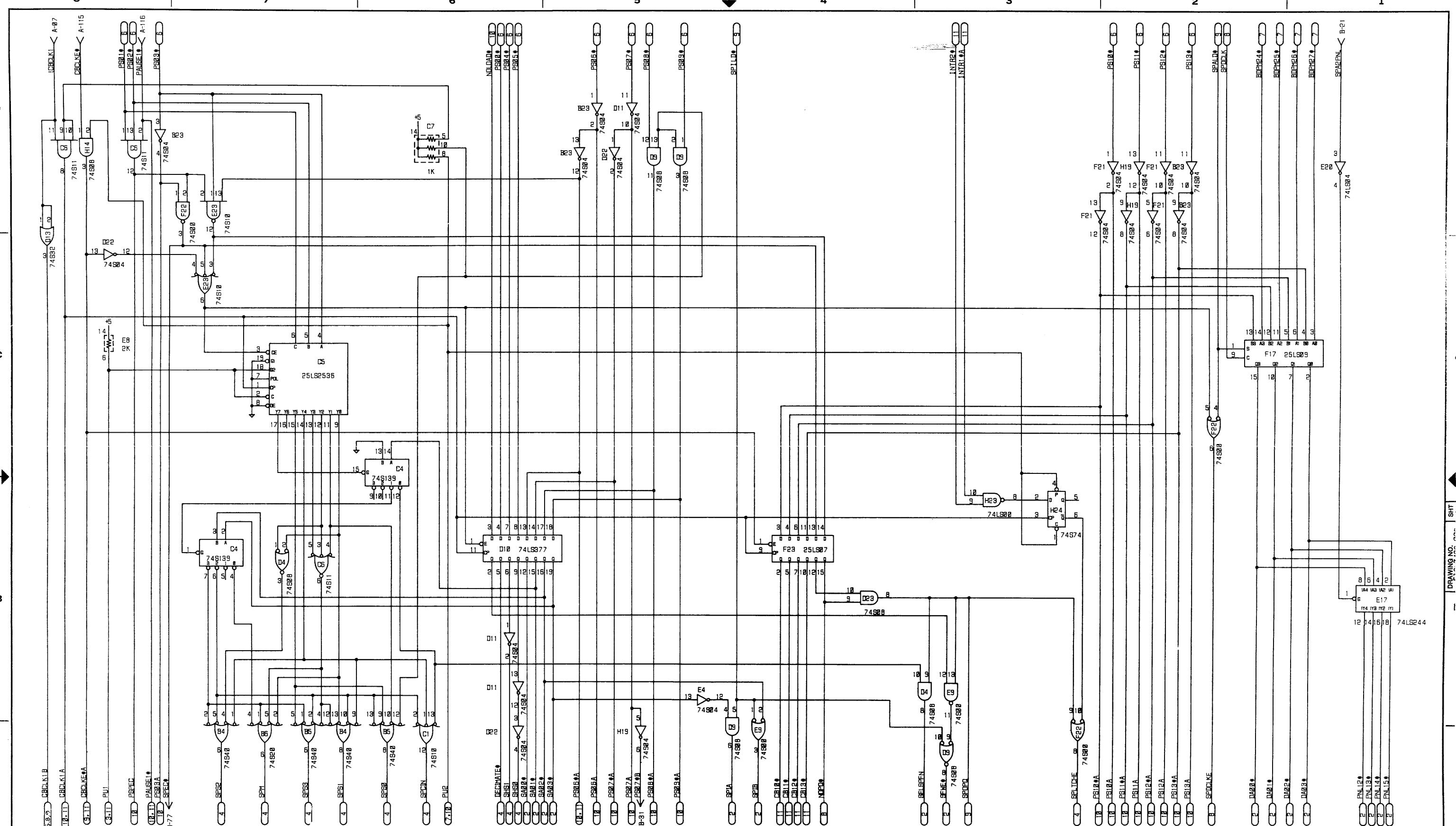
ZE	CODE IDENT. NO.	DRAWING NO.	REV.
D	56504	512-3408-004	F
ALE	NONE	SHEET 9	



AS1 MODIFIED 07-28-89

DRAWING NO.
E12 Z100 001
SHT
10

1



REVISIONS					
REV.	AUTH.	DESCRIPTION	ZONE	APV/D	DATE
A	ECO 80177	LEVEL 3 RELEASE		DE 5-14-80 M. (0)	JUL 5/14/80
B	ECO 80495	CHANGE RESISTOR DESIGNATOR	M	2/2/81	M. 2/2/81
C	ECO 81576	CORRECT ERROR ON GATE OUTPUT	M	1/4/82	C. 1/4/82
D	ECO 82432	CORR SIG SELSPFN SHT 1,2	B3,D3	M	K. 1/12/82

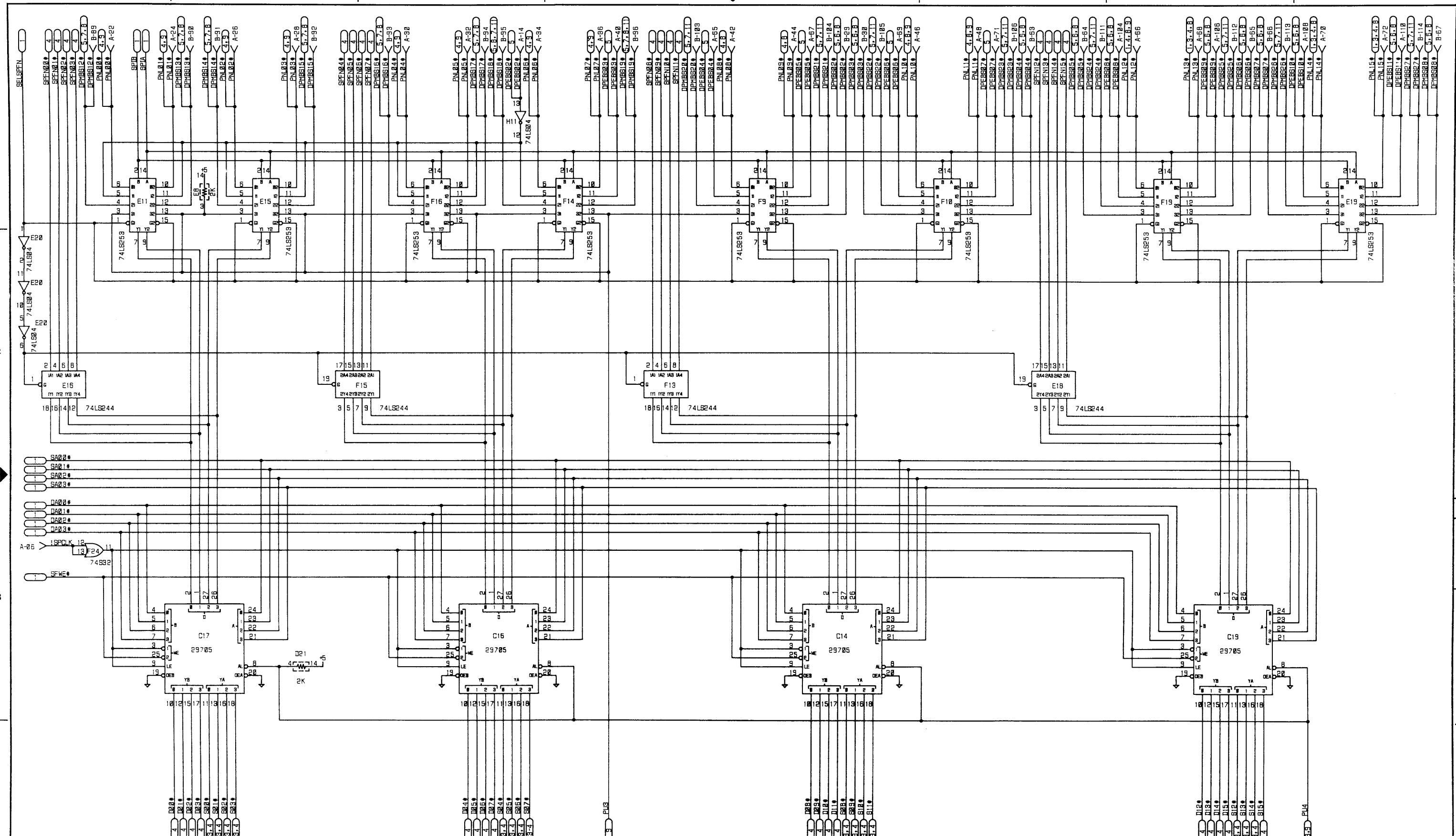
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DRAWN BY C.R.D.	DATE 7-7-79	
CHECK BY <i>Harley J. Batman</i>	DATE 3-6-80	DRAWING TITLE SCHEMATIC FCB 422-B. PROCESSOR 1
MFG. ENG. <i>Roger Colwell II</i>	DATE 5-15-80	
		SIZE D CODE IDENT. NO. 56504 DRAWING NO. 512-3422-002 REV D SCALE NONE SHEET 1 OF 11



REVISIONS						
REV.	AUTH.	DESCRIPTION	ZONE	APVD	/DATE	CHK./DATE

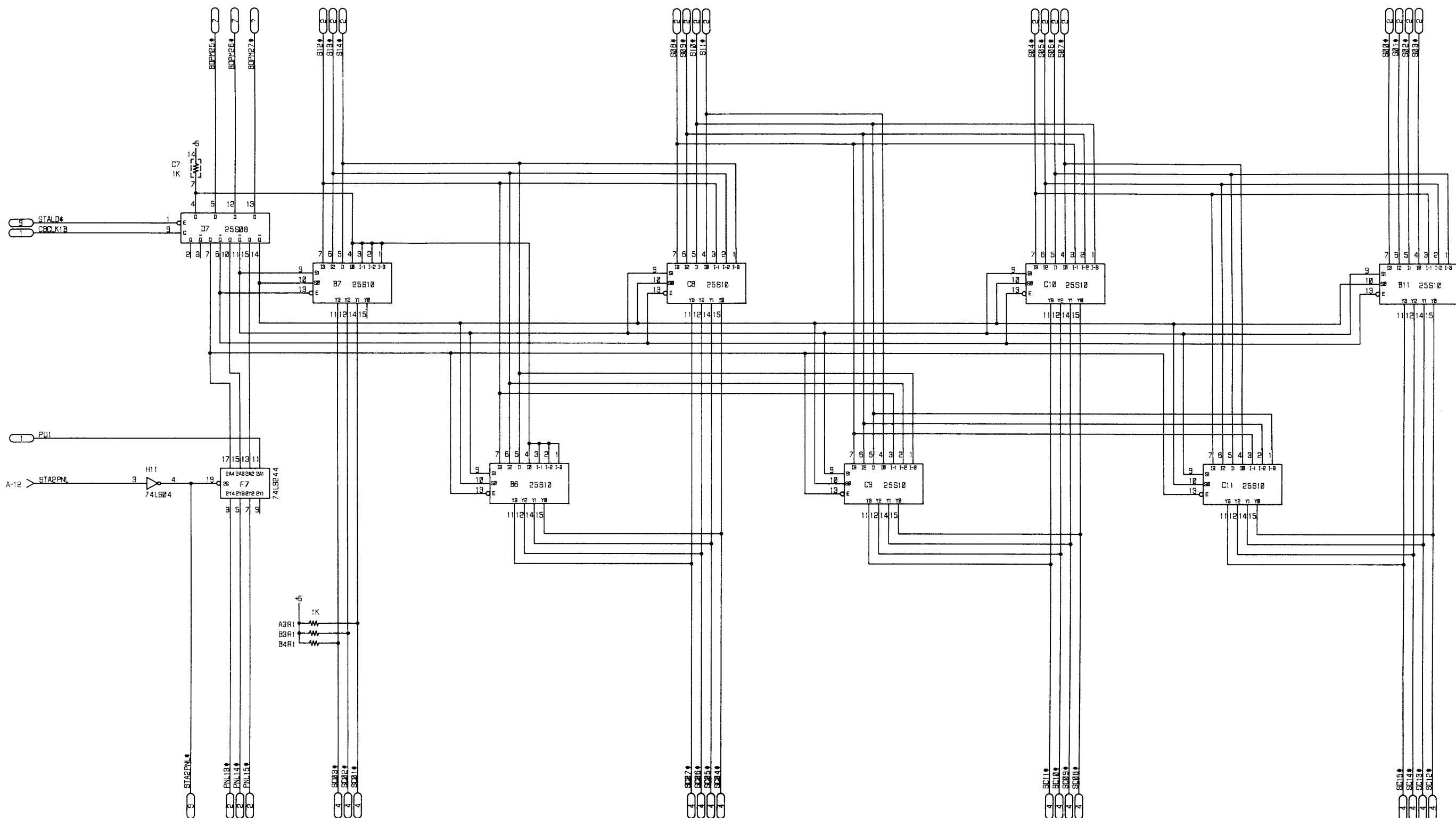
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CHECK BY	DATE			
FG. ENG.	DATE	DRAWING TITLE SCHEMATIC ECB 422-B, PROCESSOR 1		
		SIZE D	CODE IDENT. NO. 56504	DRAWING NO. 512-3422-002
		SCALE NONE		SHEET 2 OF 12



REVISIONS	
REV.	AUTH.
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DESCRIPTION	
ZONE	APVD / DATE
CHK / DATE	

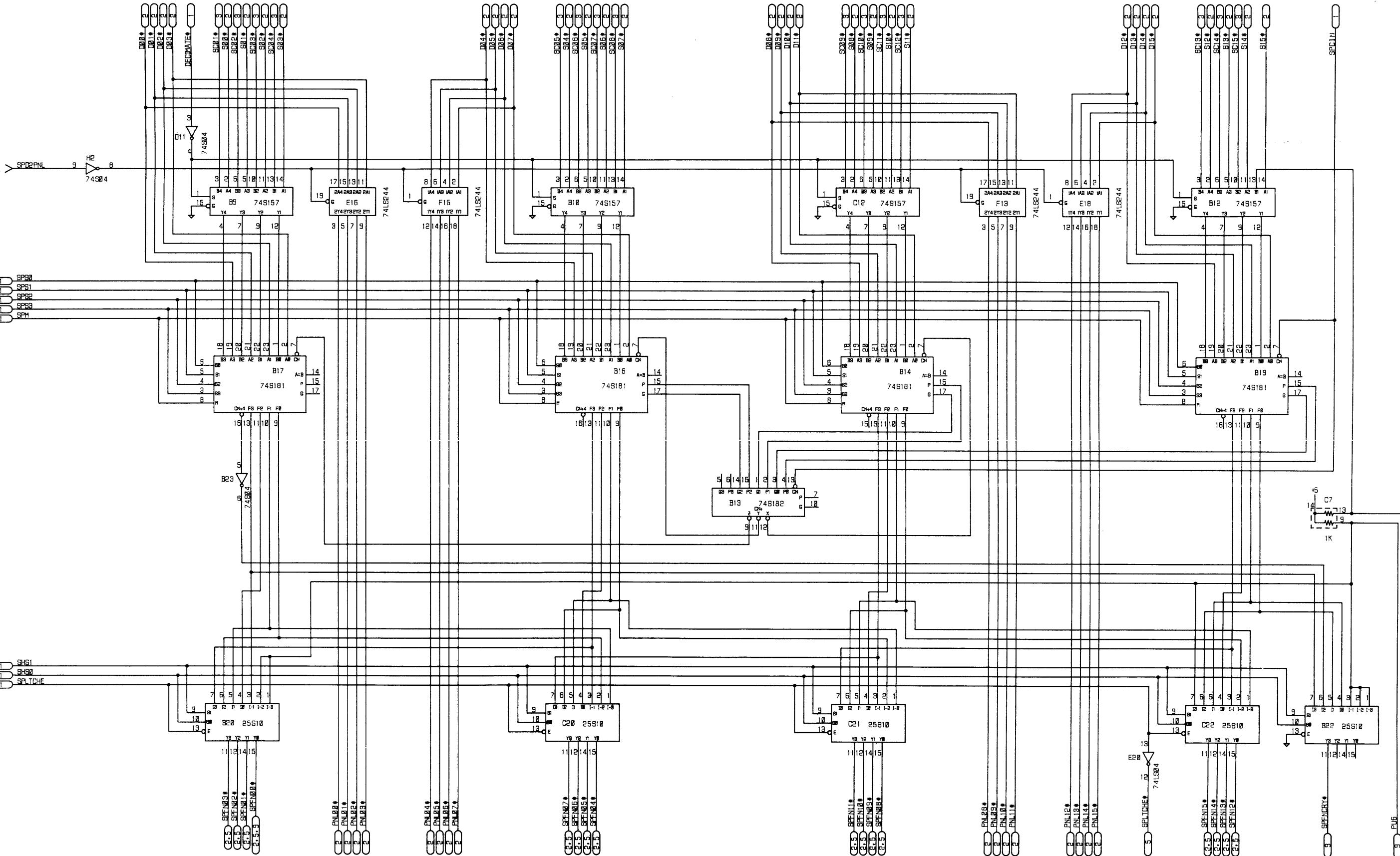
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PROJ. ENG.	DATE	
DRAWN BY C.R.D.	DATE 7-7-79	
CHECK BY	DATE	
MFG. ENG.	DATE	
DRAWING TITLE FLOATING POINT SYSTEMS, INC. POBox 23488 Portland OR 97223		
SCHEMATIC ECB		
422-B,		
PROCESSOR 1		
SIZE	CODE IDENT. NO.	DRAWING NO.
5	56504	512-3422-002
REV. D		REV. D
SCALE NONE		SHEET 3 OF 12



REVISIONS					
REV.	AUTH.	DESCRIPTION	ZONE	APVD / DATE	CHK. / DATE
REVISIONS					

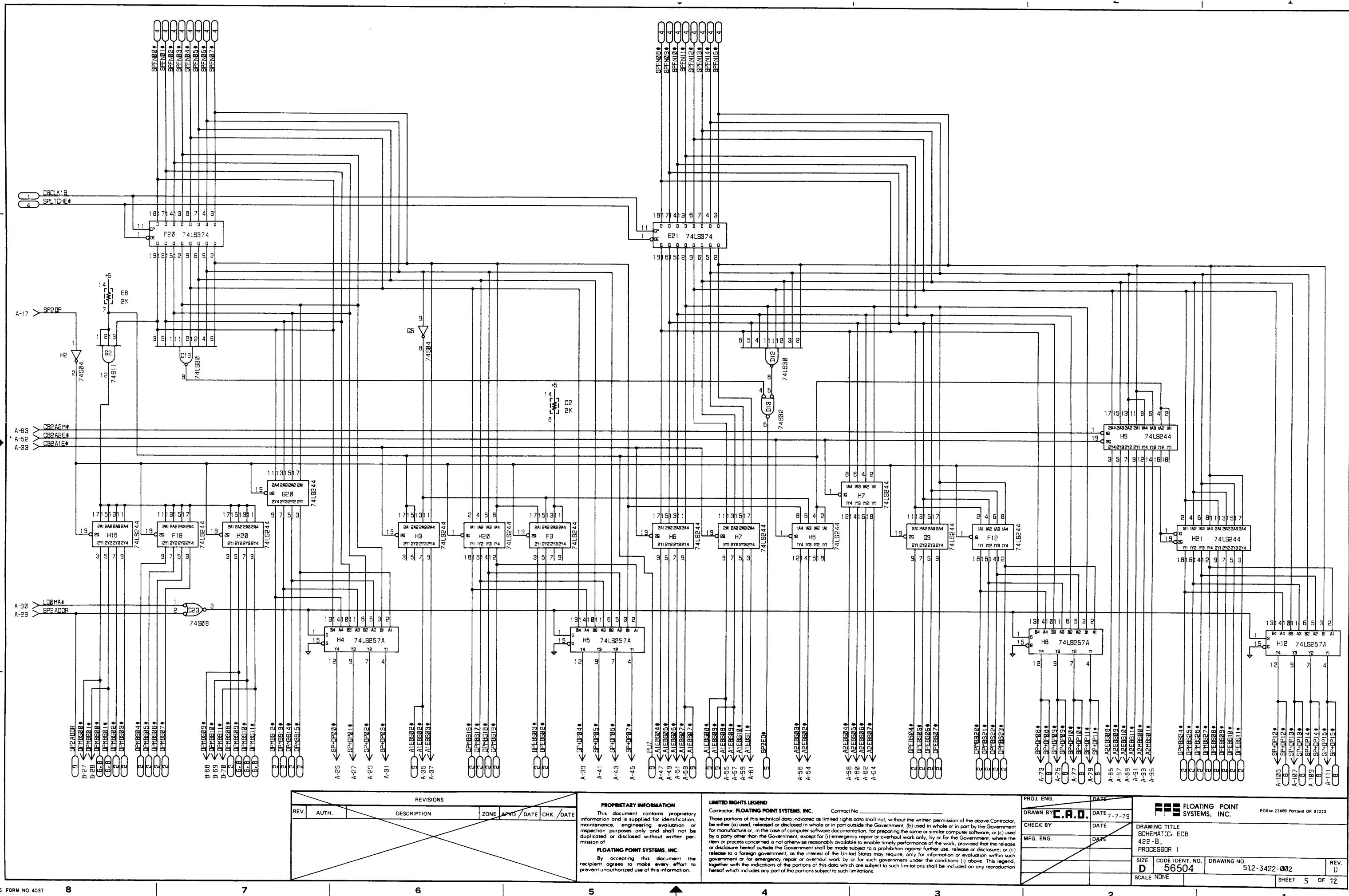
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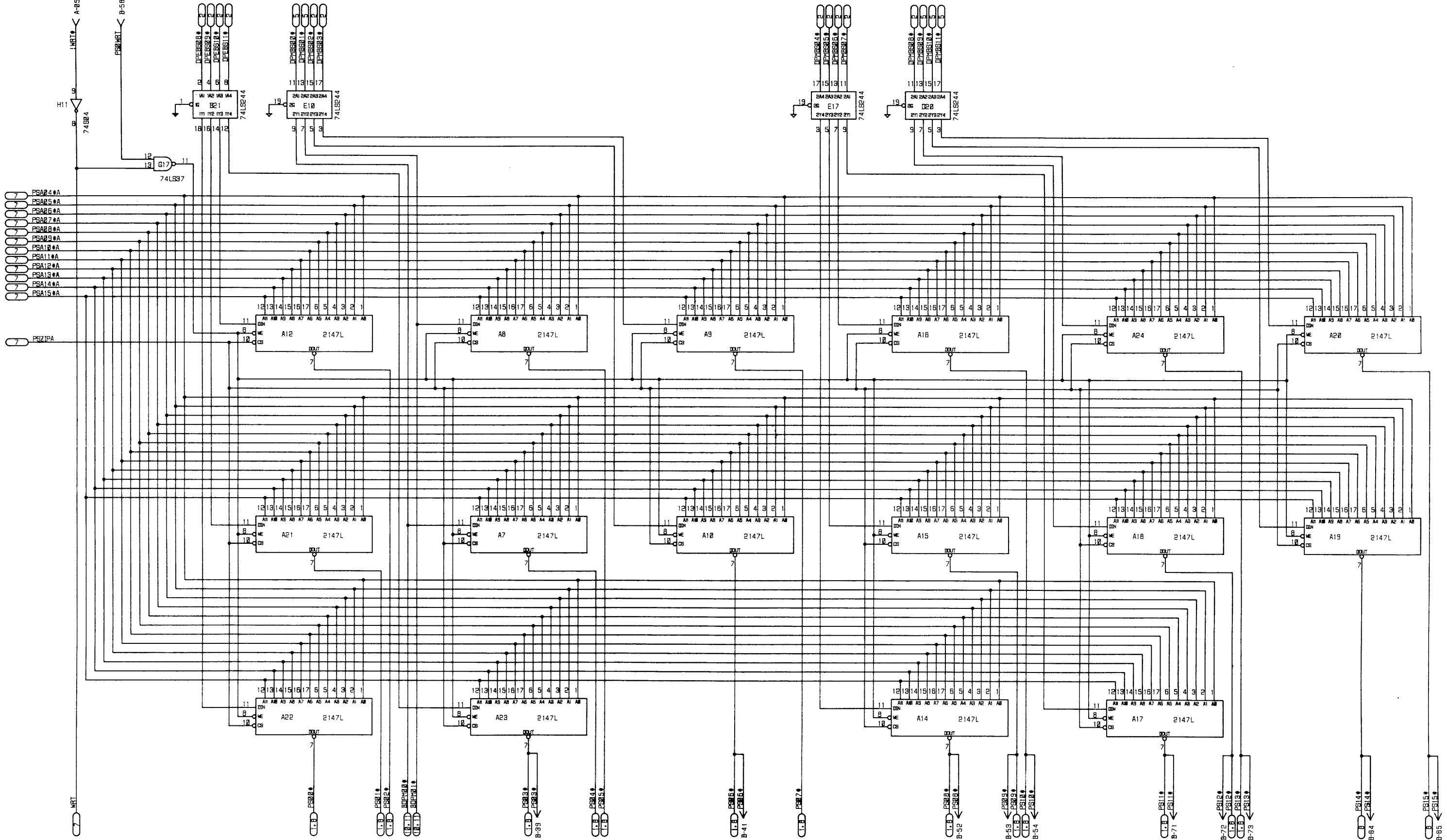
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CHECK BY	DATE	DRAWING TITLE
MFG. ENG.	DATE	SCHEMATIC ECB
		422-B,
		PROCESSOR 1
SIZE	CODE IDENT. NO.	DRAWING NO.
D	56504	512-3422-002
REV. D		
SCALE NONE		
		SHEET 4 OF 12





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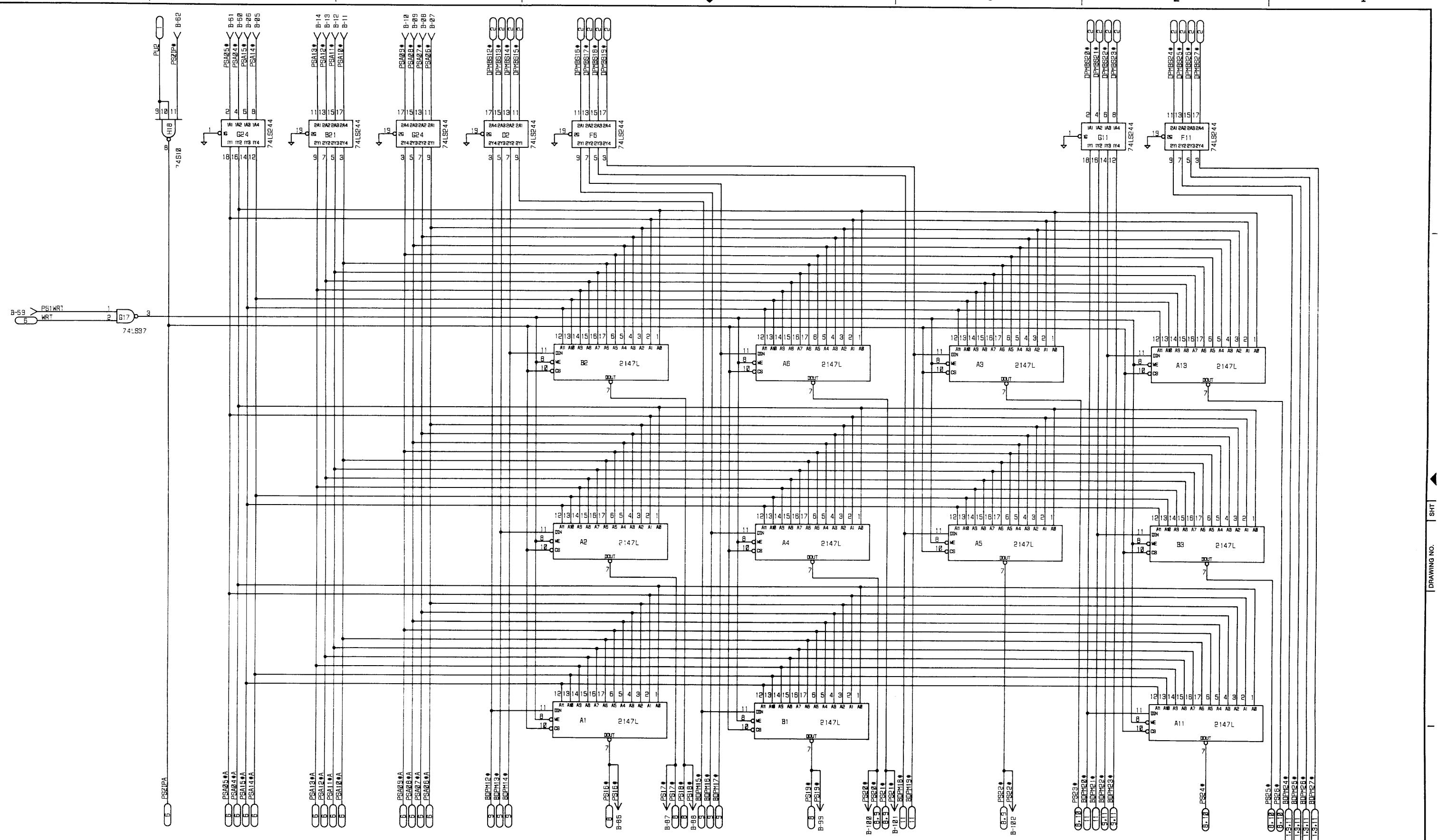
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MFG. ENG.	DATE	422-B, PROCESSOR 1		
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		D	56504	512-3422-002
		SCALE NONE		SHEET 6 OF 12

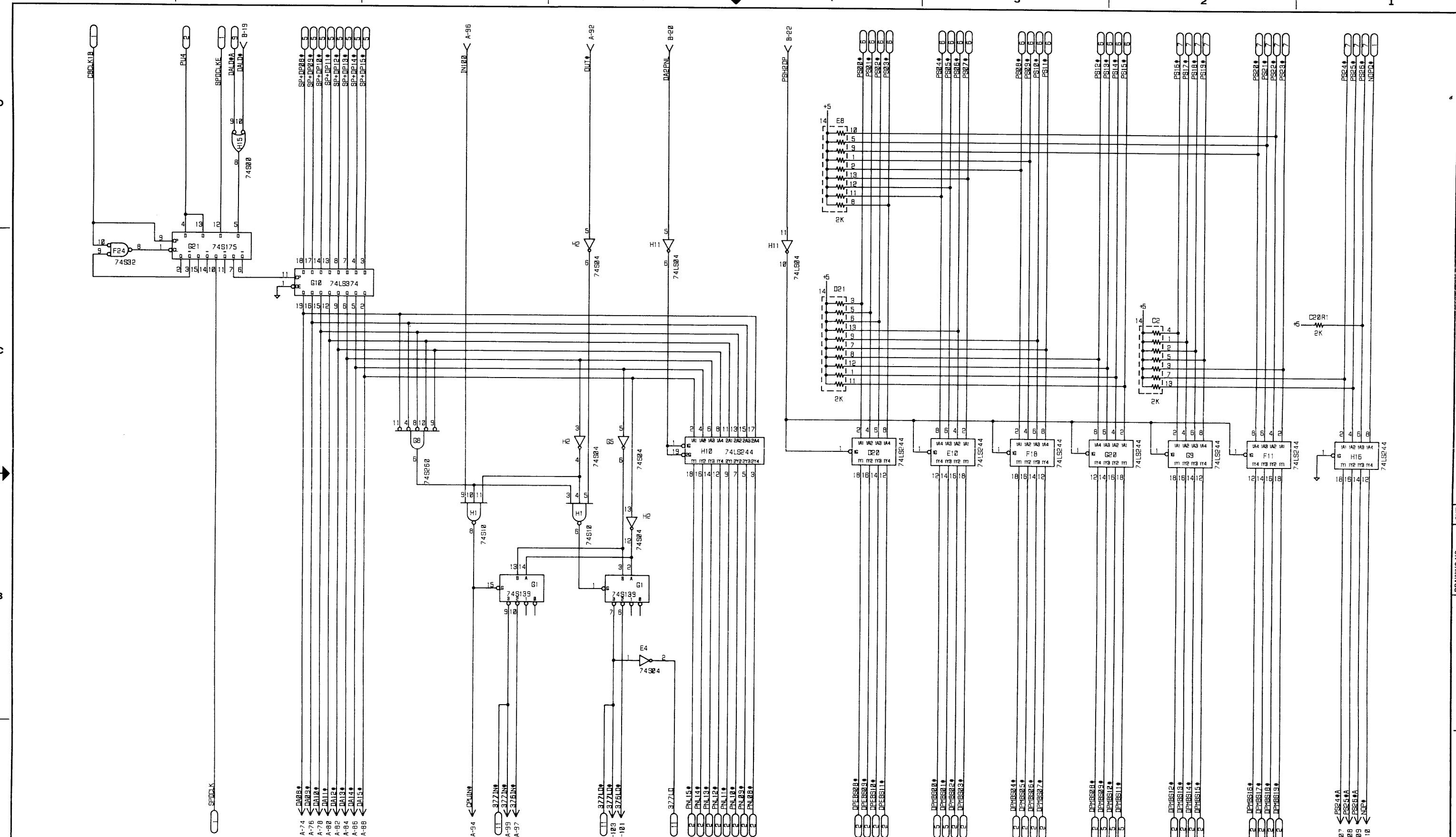


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DRAWN BY C.R.D.	DATE 7-7-79	POBox 23489 Portland OR 97223
CHECK BY	DATE	DRAWING TITLE
MFG. ENG.	DATE	SCHEMATIC ECB
		422-B
		PROCESSOR !
SIZE D	CODE IDENT. NO. 56504	DRAWING NO. 512-3422-002
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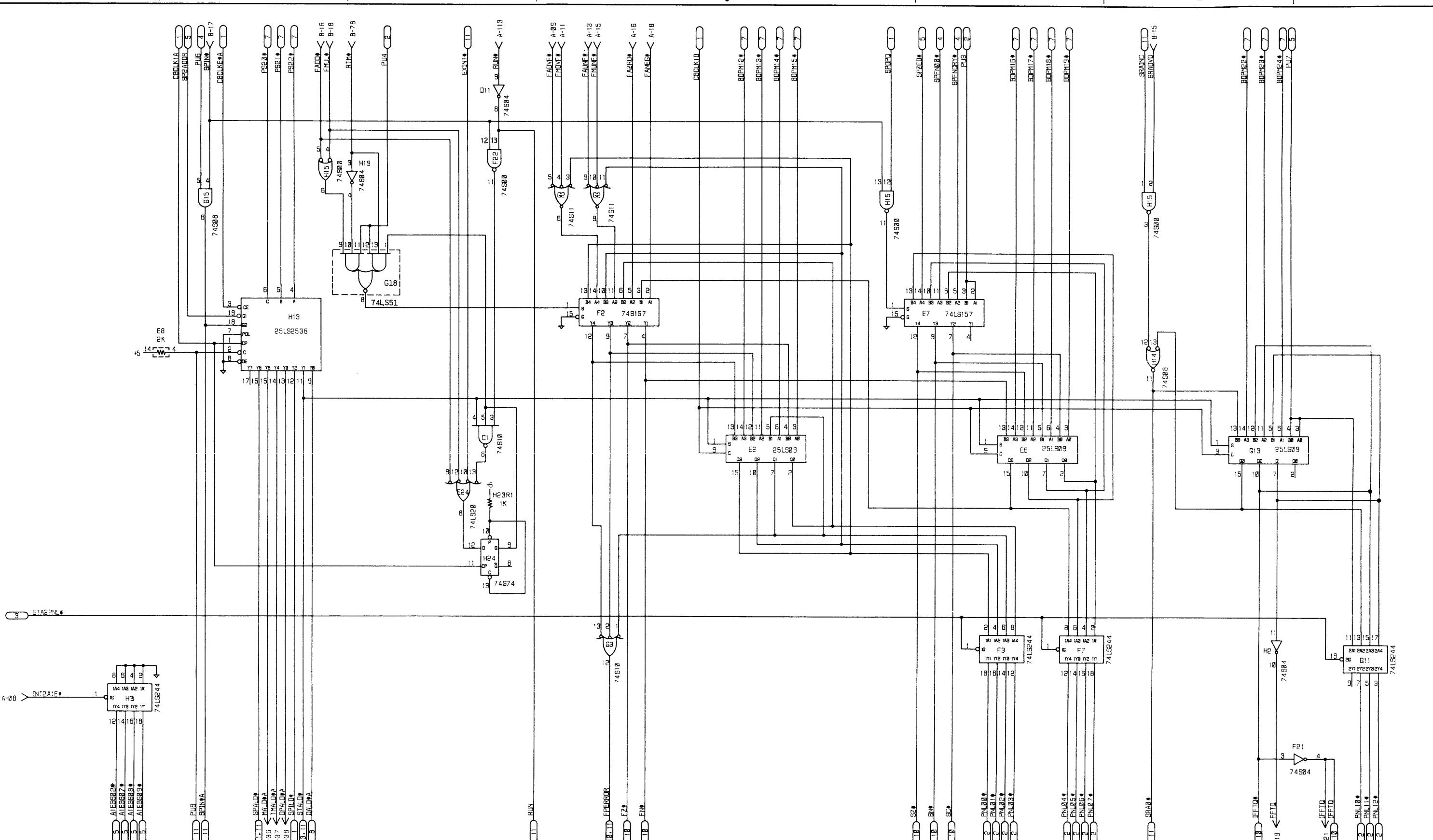
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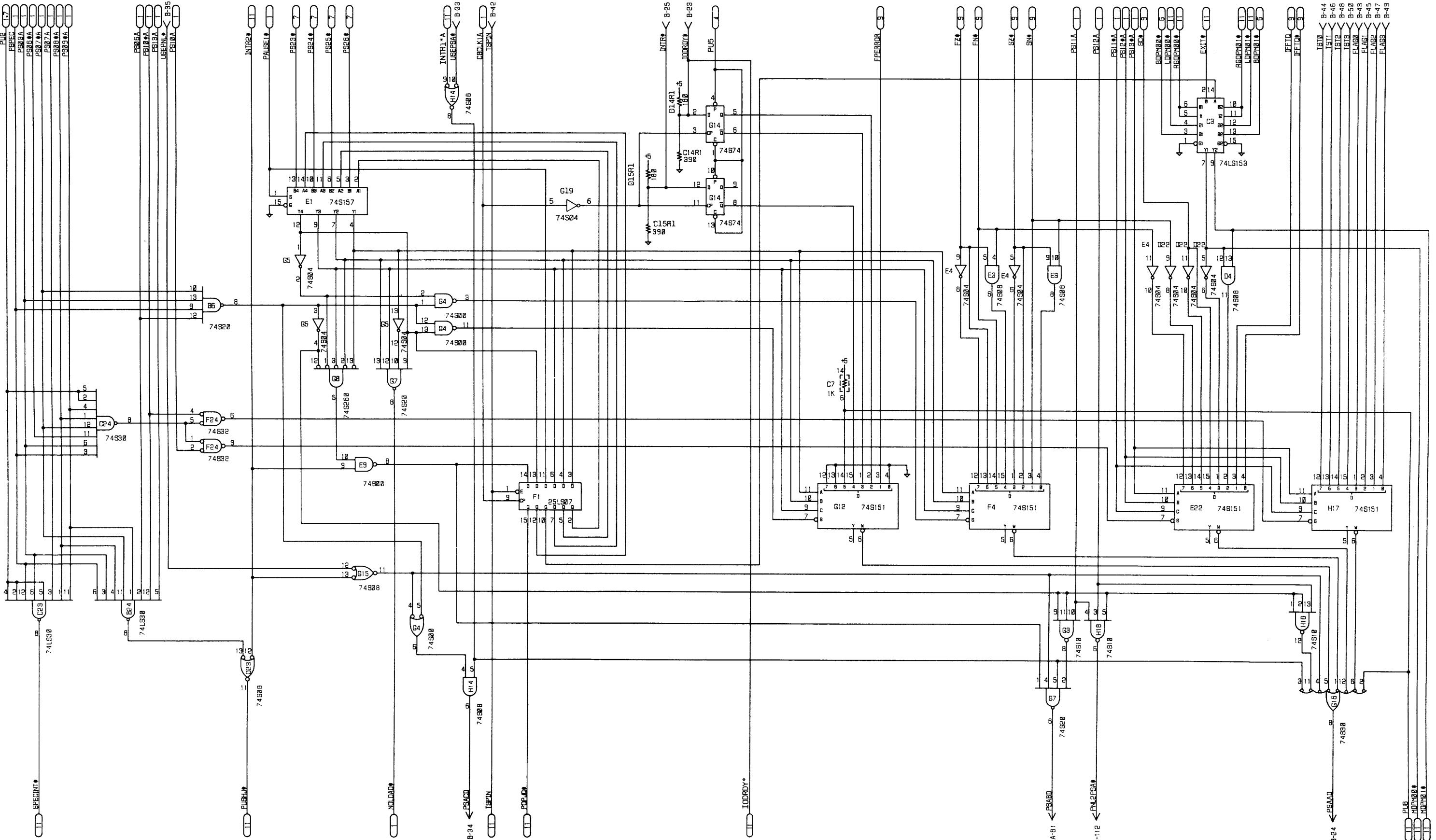
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DRAWN BY	DATE	F P S FLOTTING POINT SYSTEMS, INC. POBox 23489 Portland OR 97223		
CHECK BY	DATE	DRAWING TITLE		
MFG. ENG.	DATE	SCHEMATIC, ECB 422-B, PROCESSOR 1		
		SIZE	CODE IDENT. NO.	DRAWING NO.
		D	56504	512-3422-002
		SCALE	NAME	SHEET 8 OF 12





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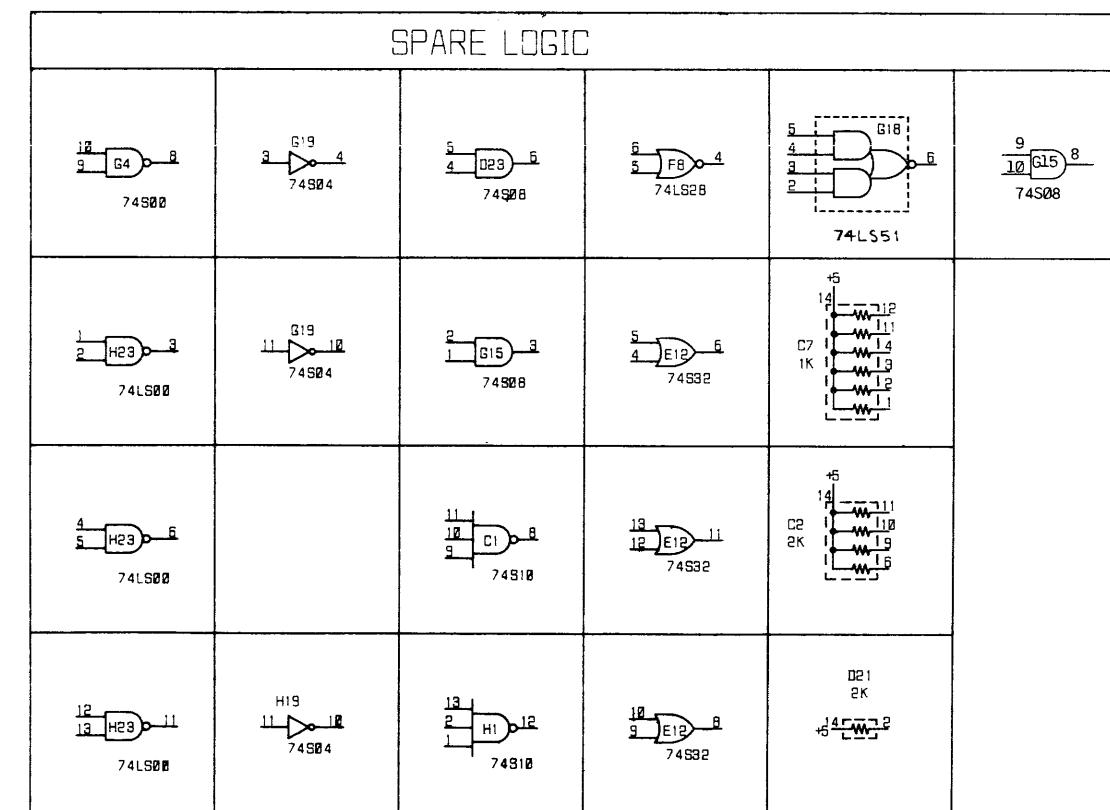
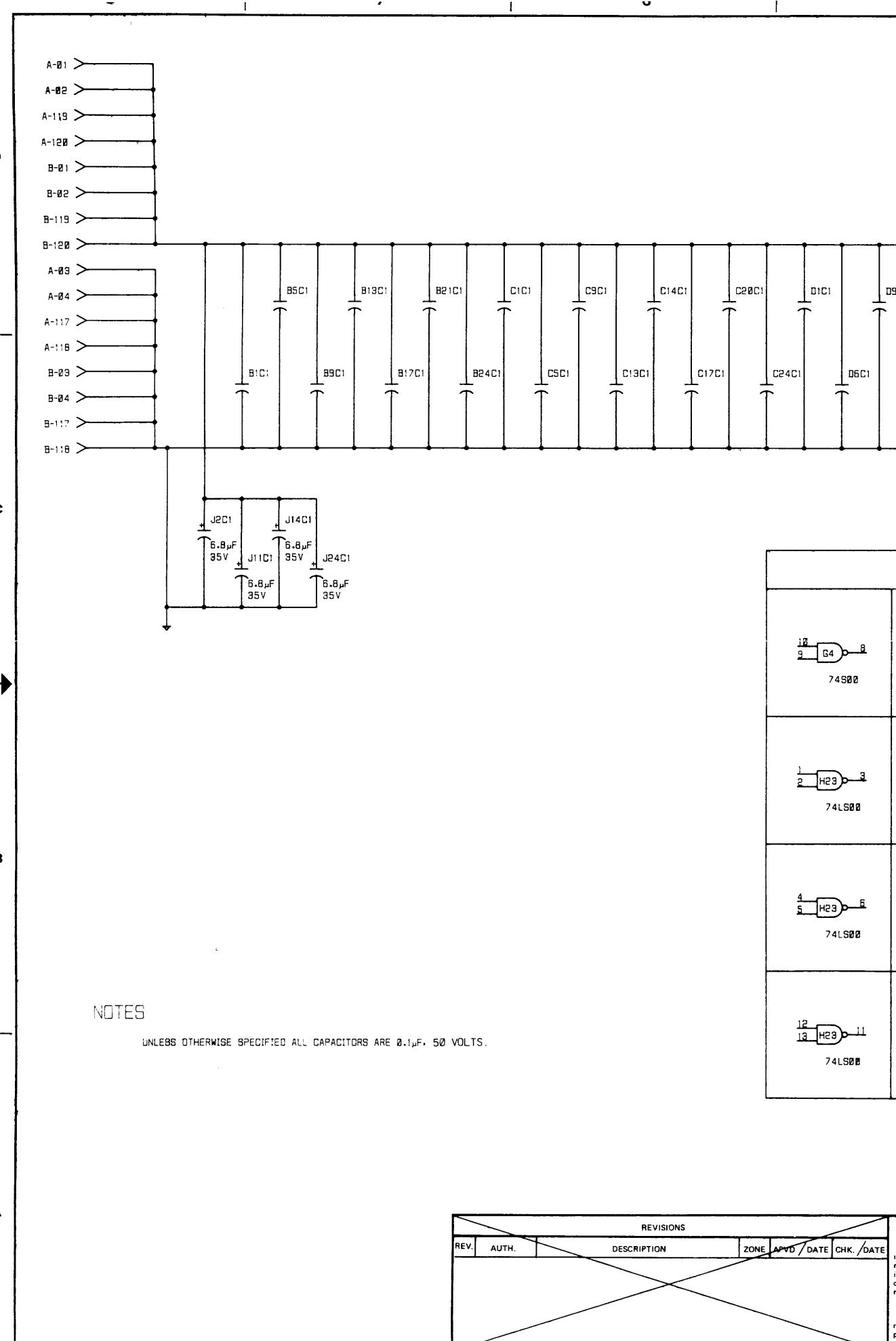
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PROJ. ENG.	DATE
DRAWN BY C.R.D.	DATE 7-7-79
CHECK BY	DATE
MFG. ENG.	DATE

DRAWING TITLE	
SCHEMATIC, ECB	
422-B,	
PROCESSOR 1	
SIZE	CODE IDENT. NO.
D	56504
DRAWING NO. 512-3422-002	
REV. D	
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PROJ. ENG.
DRAWN BY **C.R.D.** DATE 7-7-79
CHECK BY _____ DATE _____
MFG. ENG. _____ DATE _____

DATE

F.P.S. FLOATING POINT SYSTEMS, INC.
POBox 23489 Portland OR 97223

DRAWING TITLE

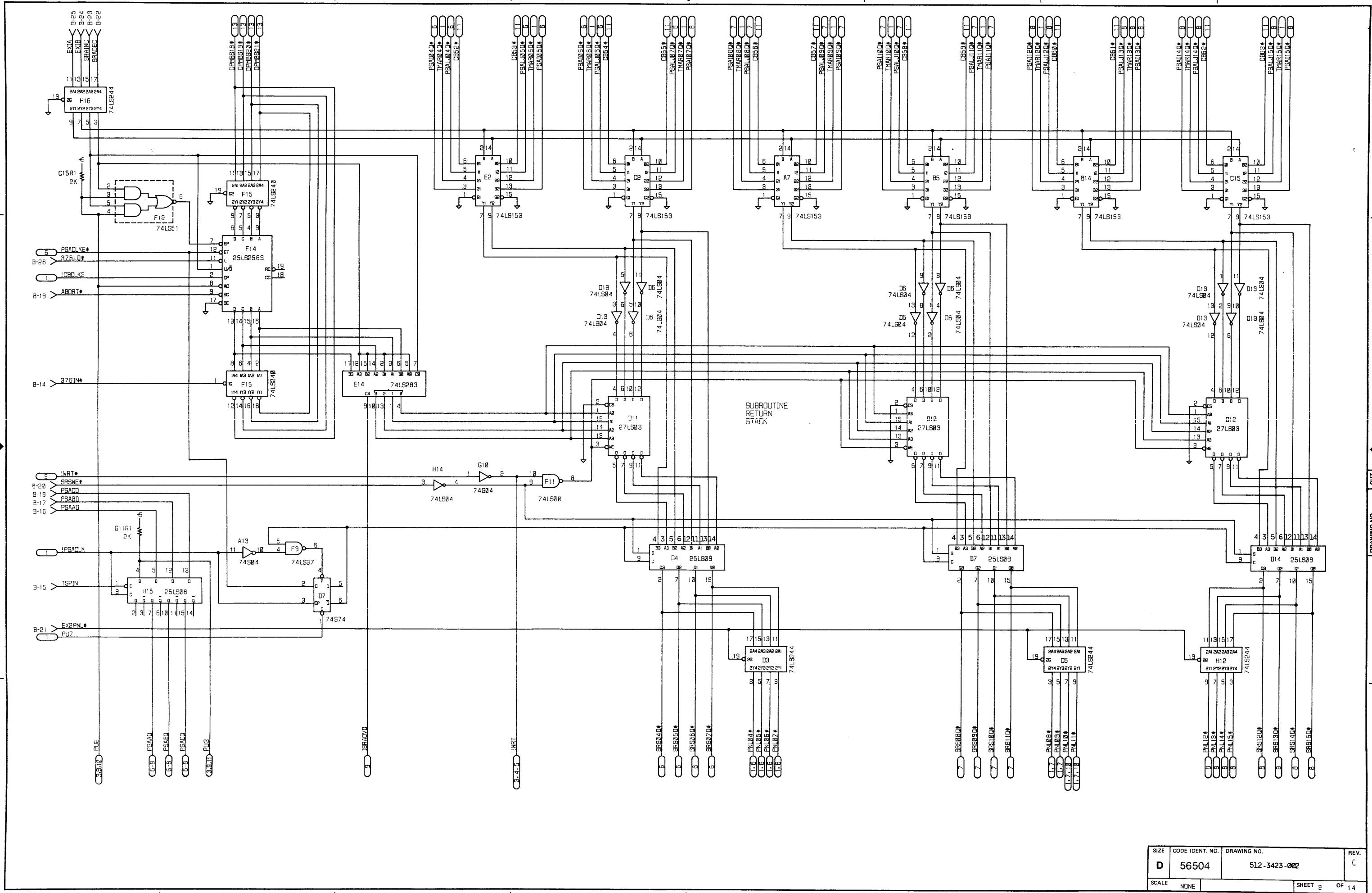
SCHEMATIC, ECB

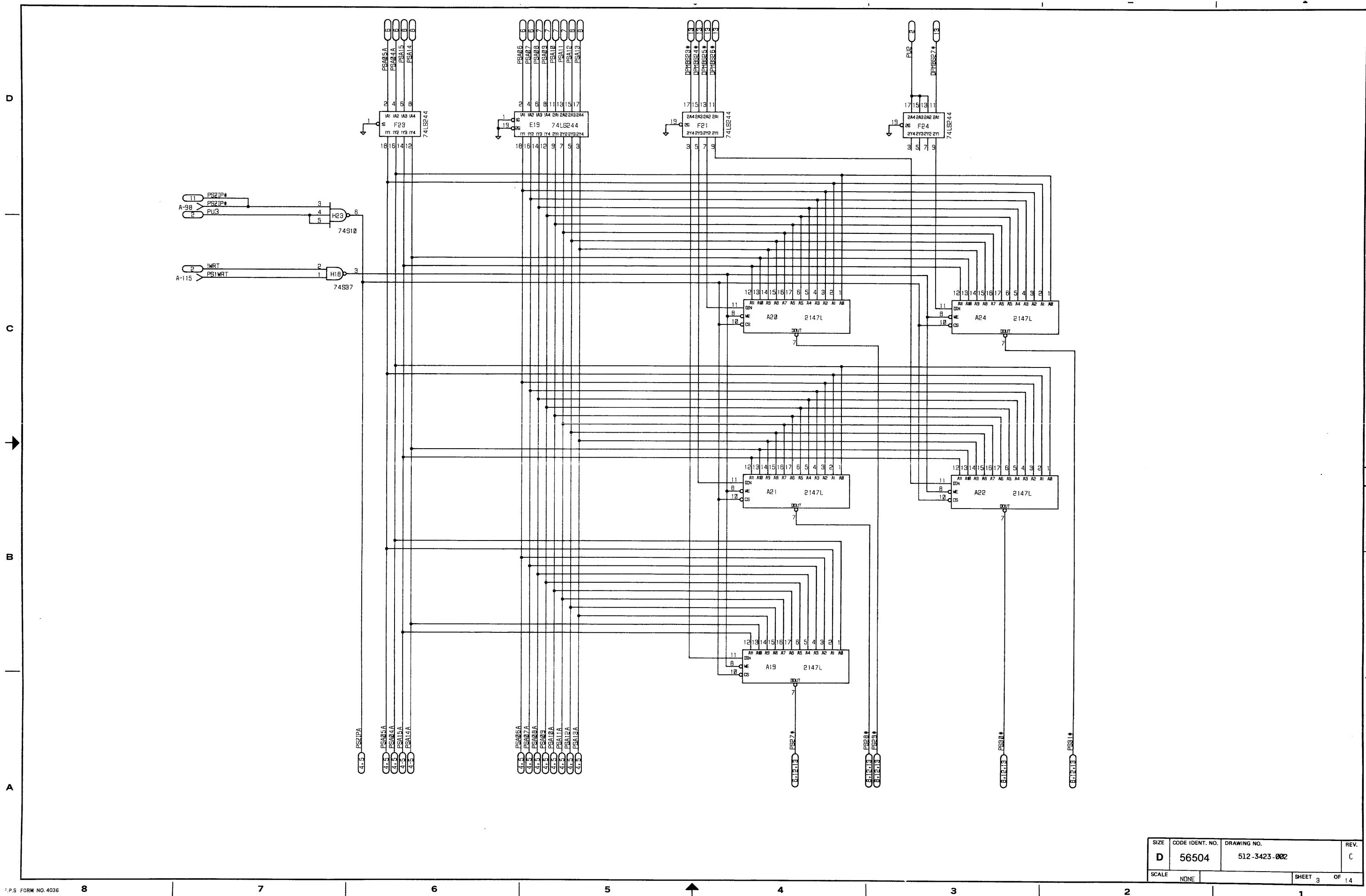
422-B,
PROCESSOR 1

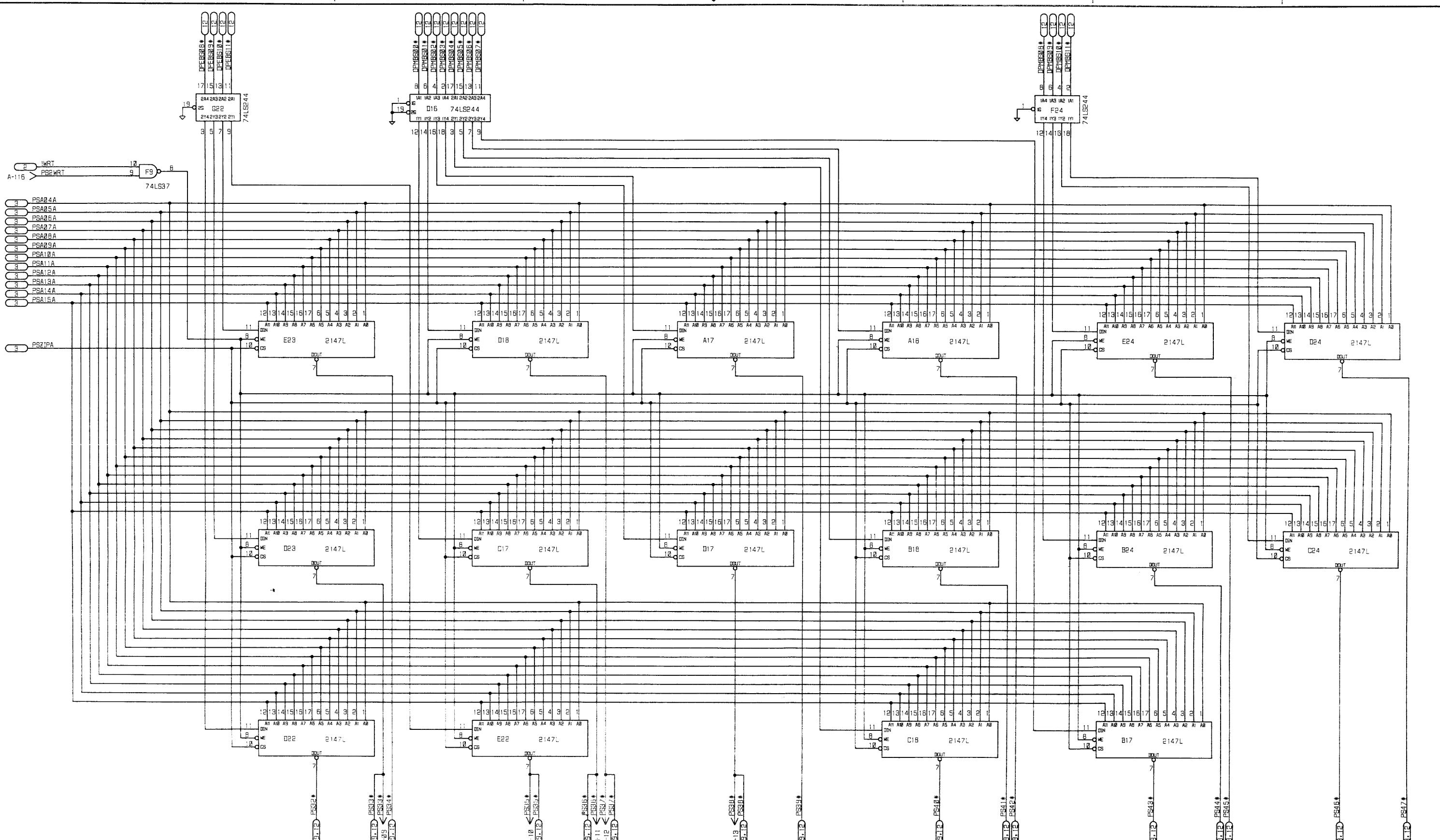
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D 56504 512-3422-002 REV. D

SCALE NONE SHEET 12 OF 12



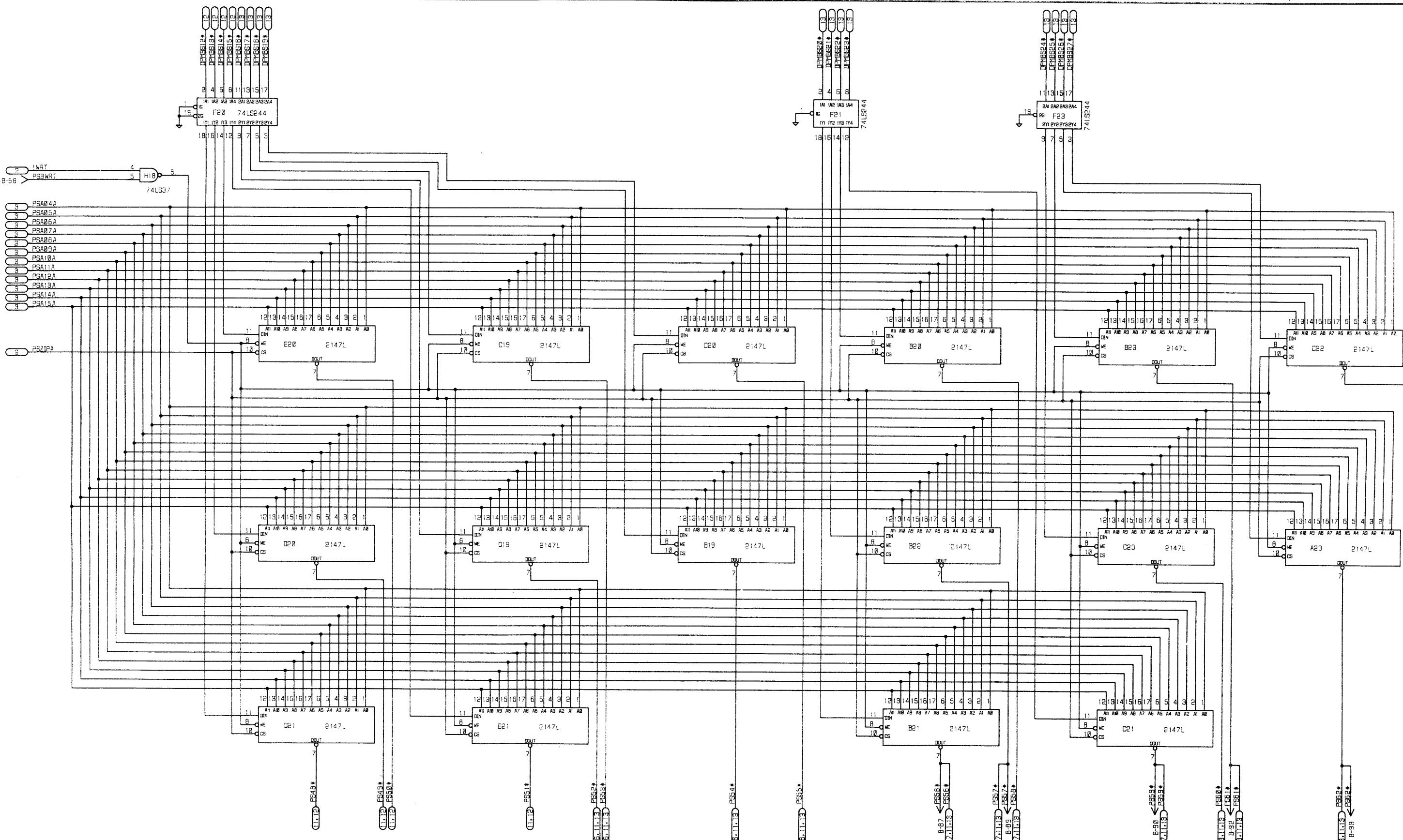




SIZE	CODE IDENT. NO.	DRAWING NO.	REV.
D	56504	512-3423-002	C
SCALE	NAME	SHEET	OF

8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

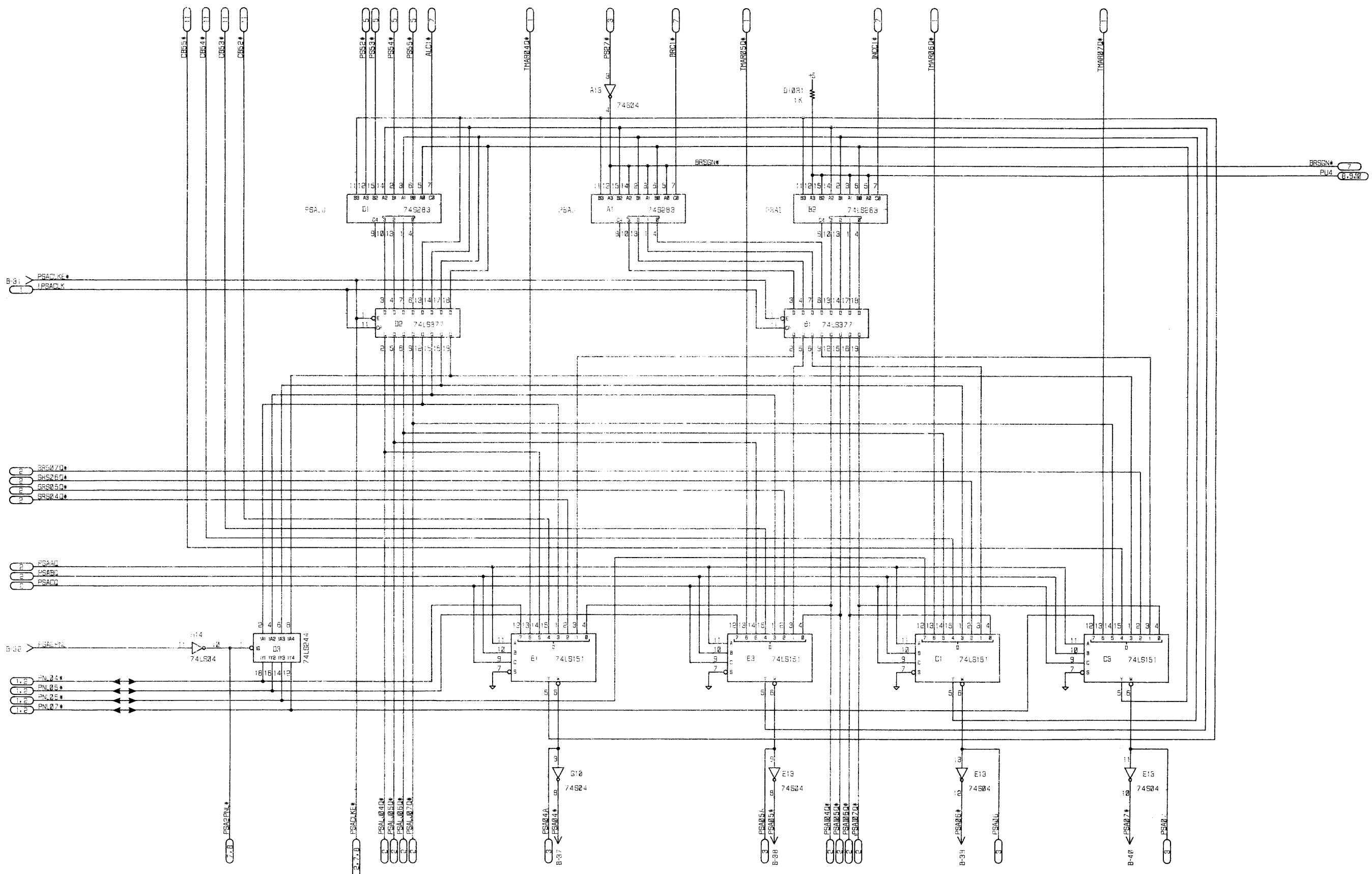
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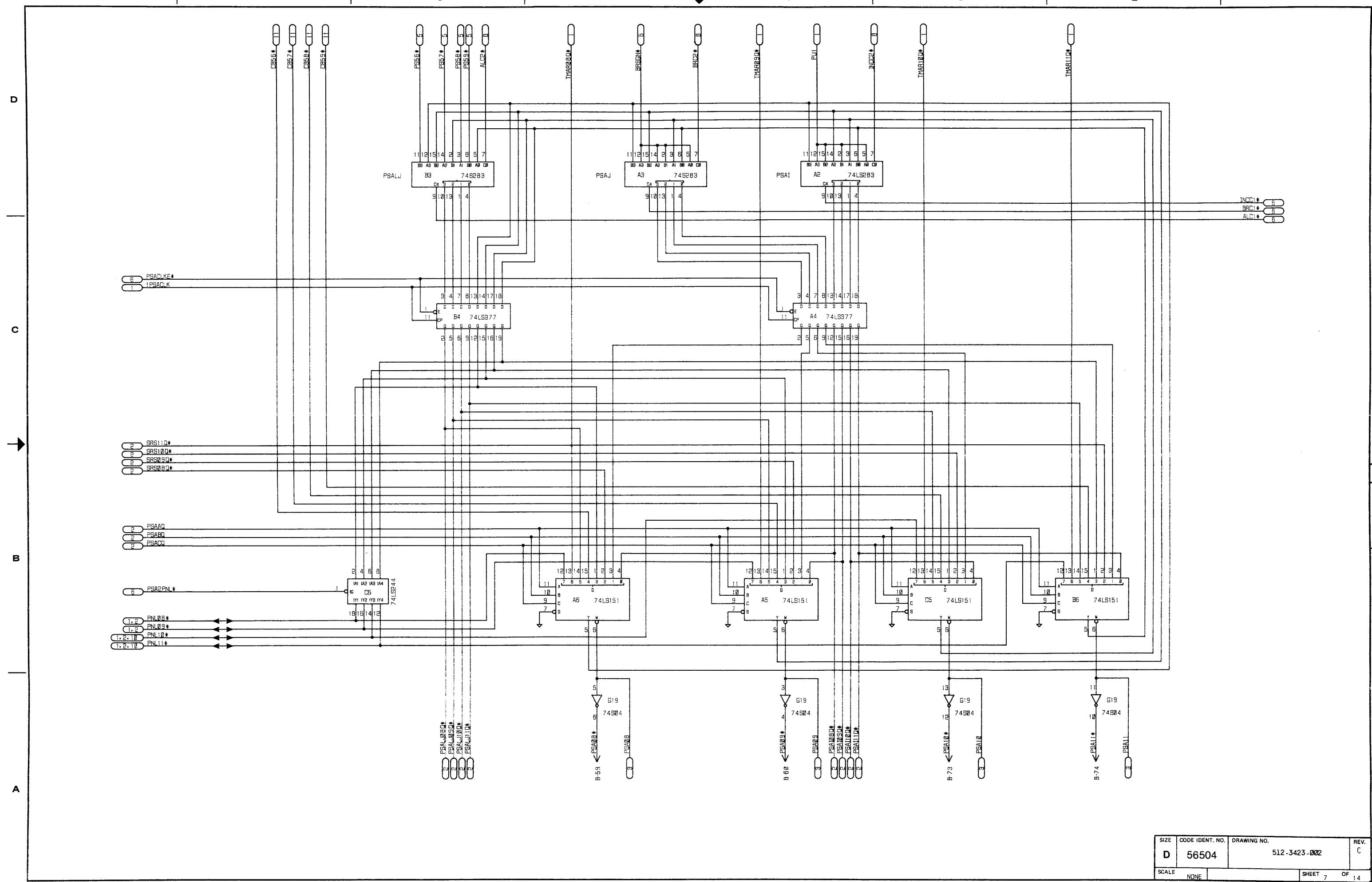
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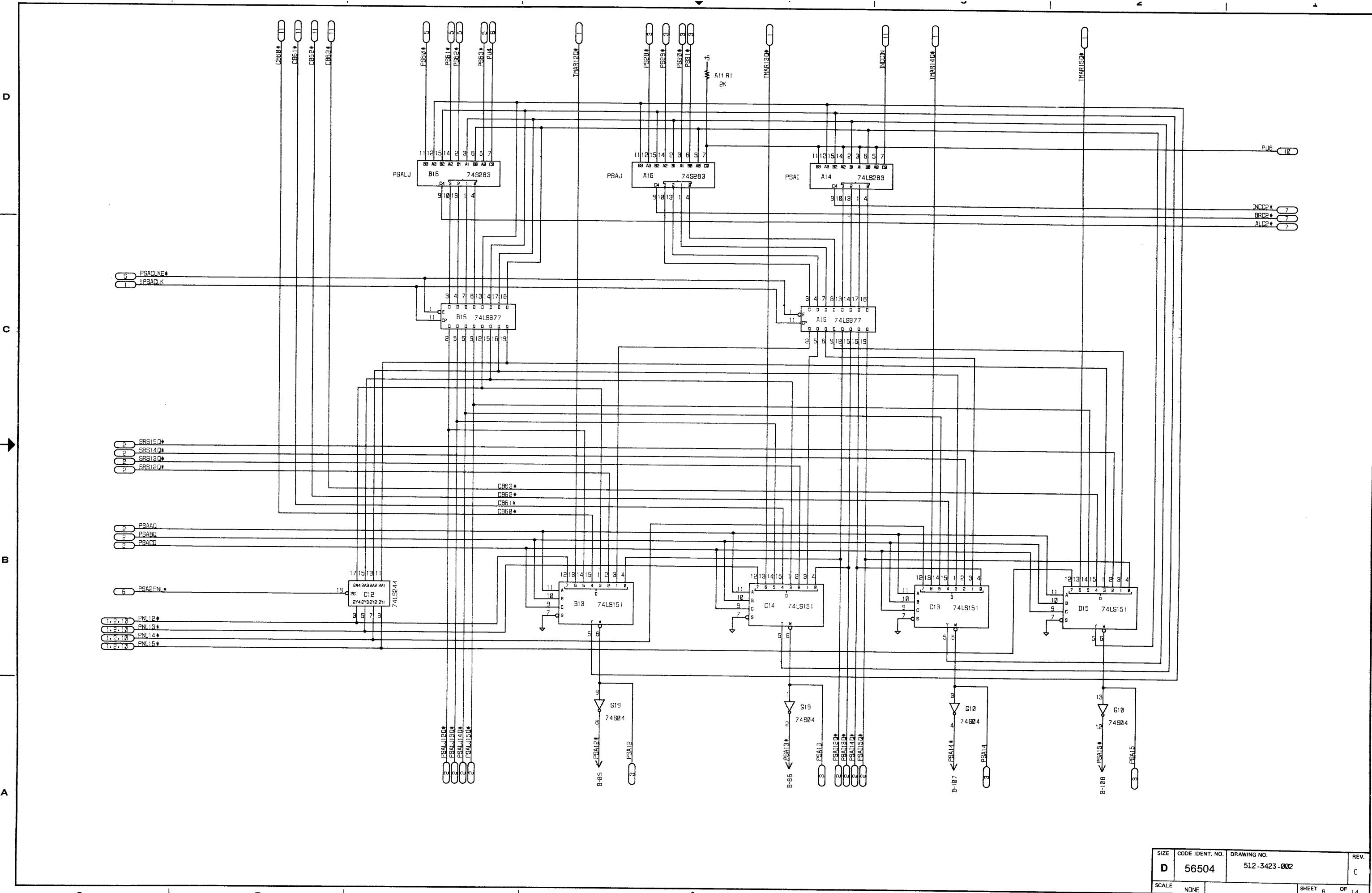
REV. C

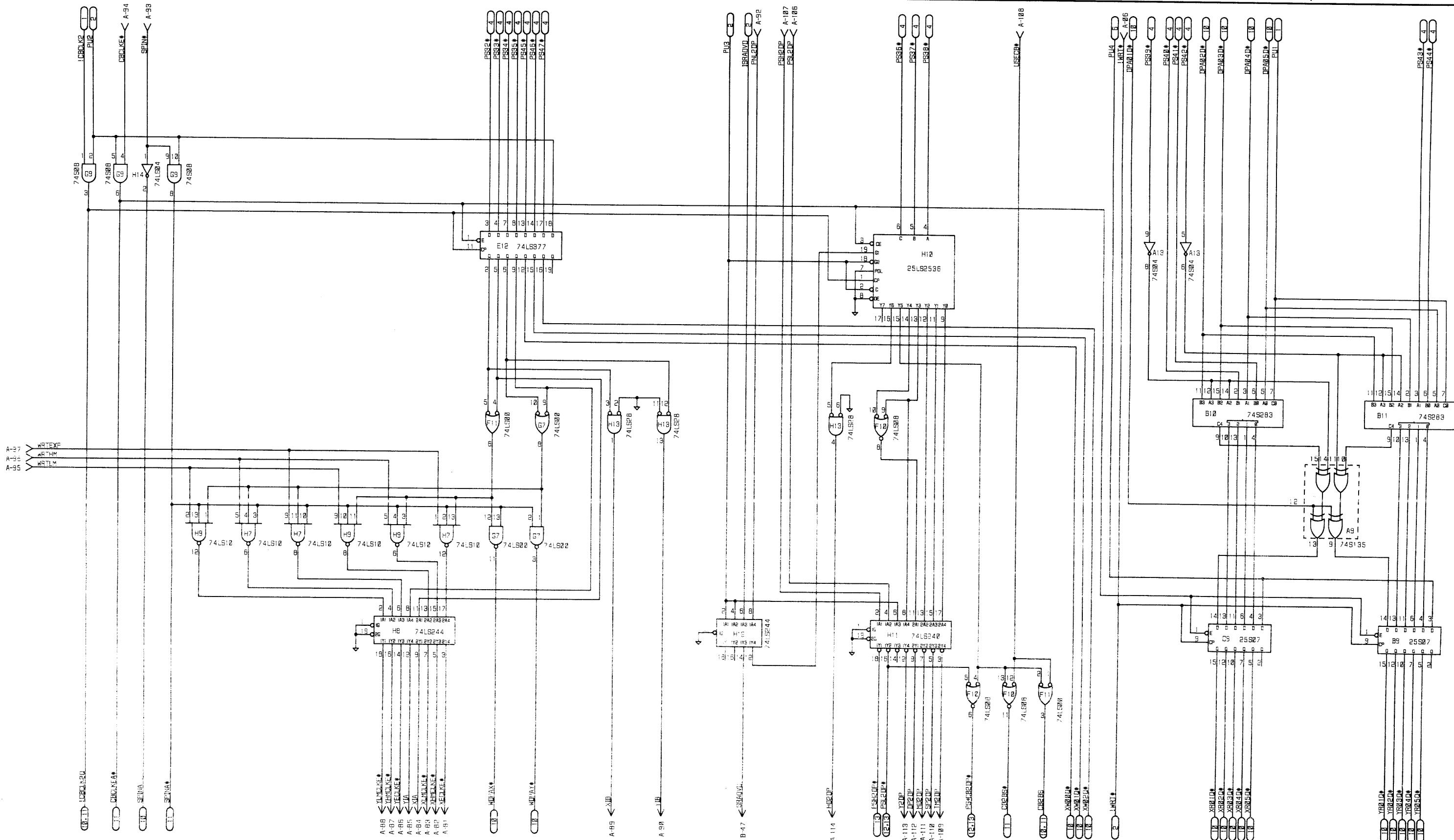
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D	56504	512-3423-002	
SCALE	NCNE		REV.



SIZE D	CODE IDENT. NO. 56504	DRAWING NO. 512-3423-002	REV. C
SCALE None		SHEET 5 OF 14	

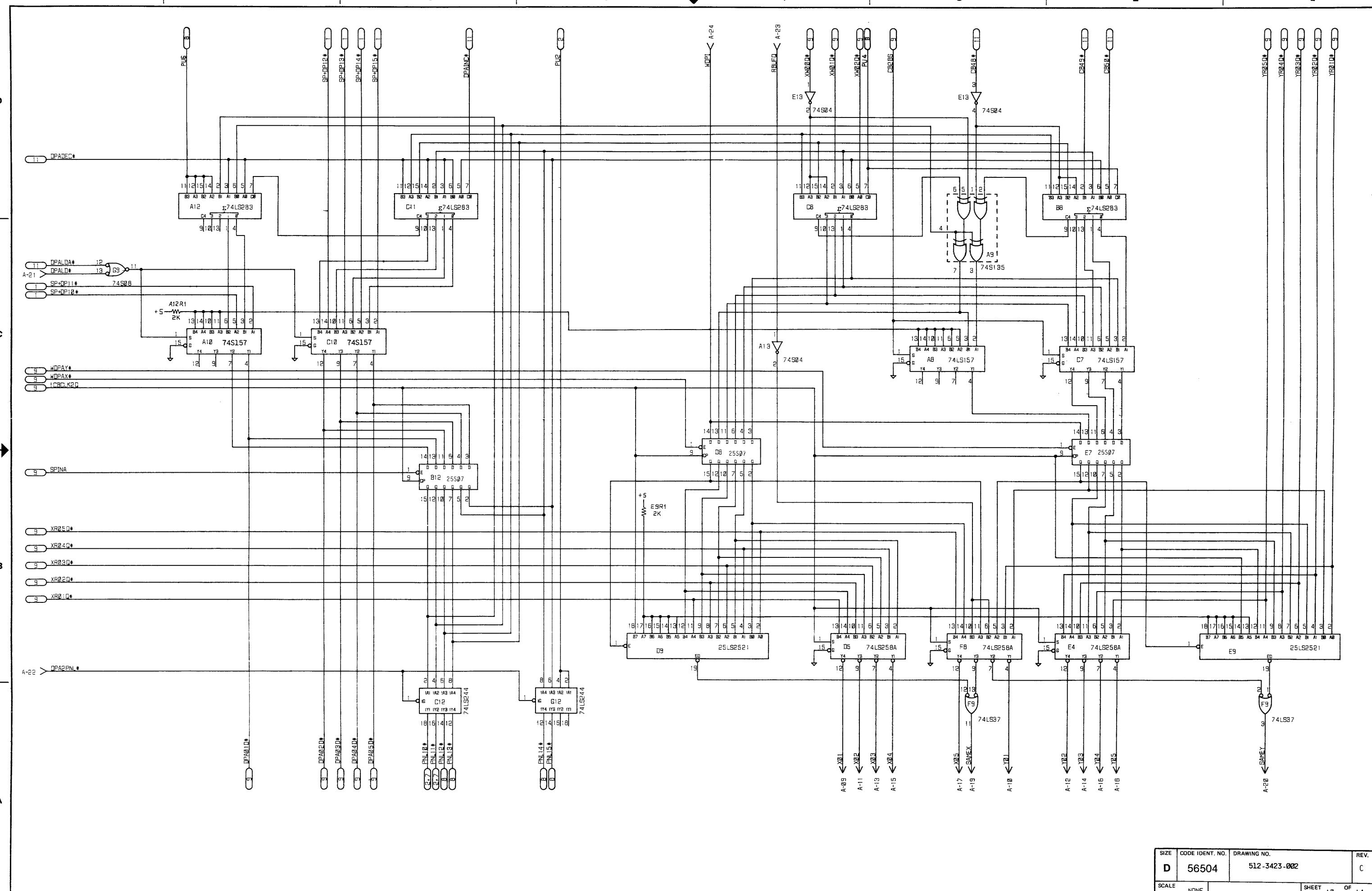


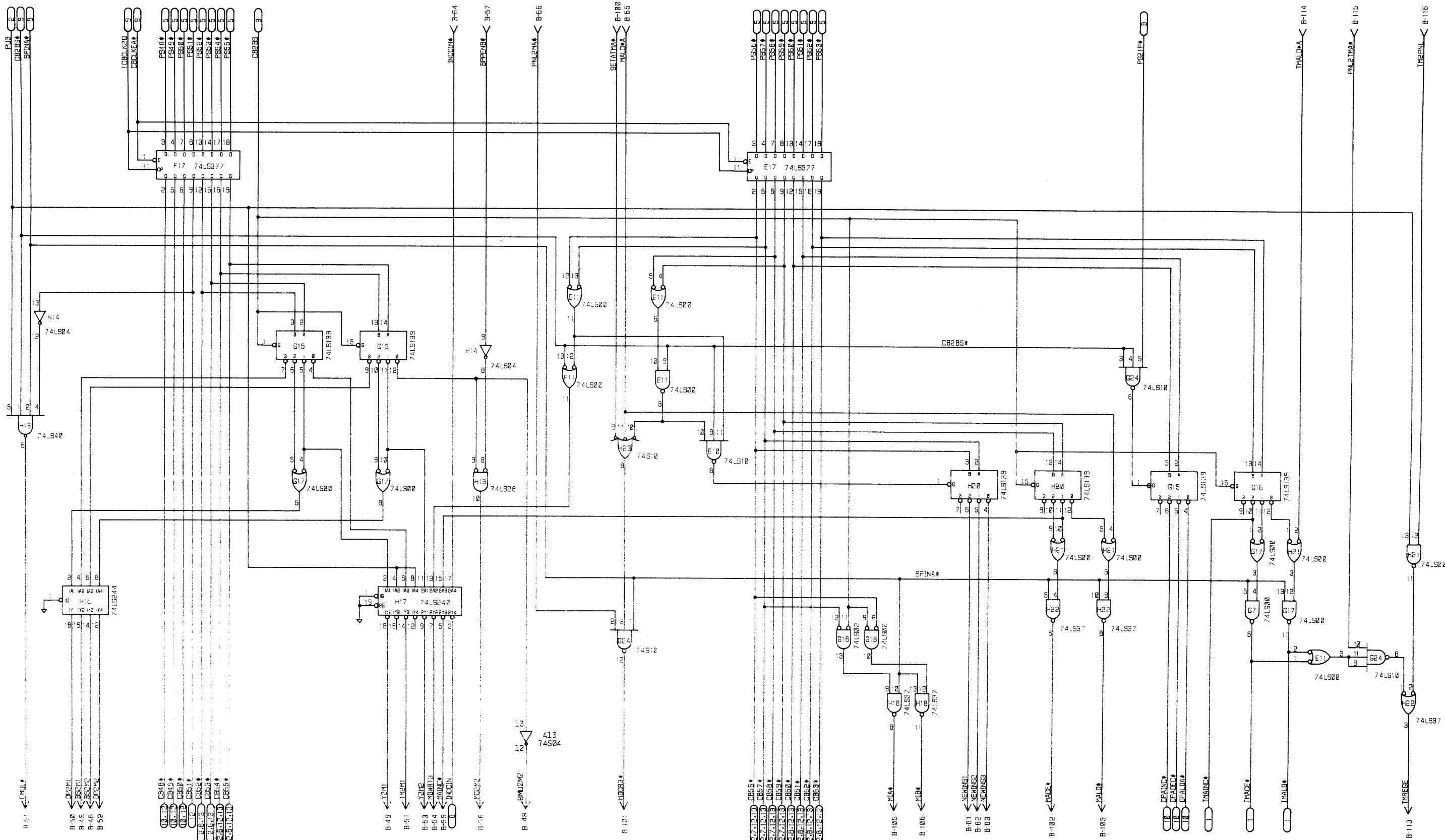




DATA PAD CONTROL

SIZE D	CODE IDENT. NO. 56504	DRAWING NO. 512-3423-002	REV. C
SCALE NONE		SHEET a OF 14	





5-2-2 ECRN NO 1632

10

1

1

1

1

1

3

1

10

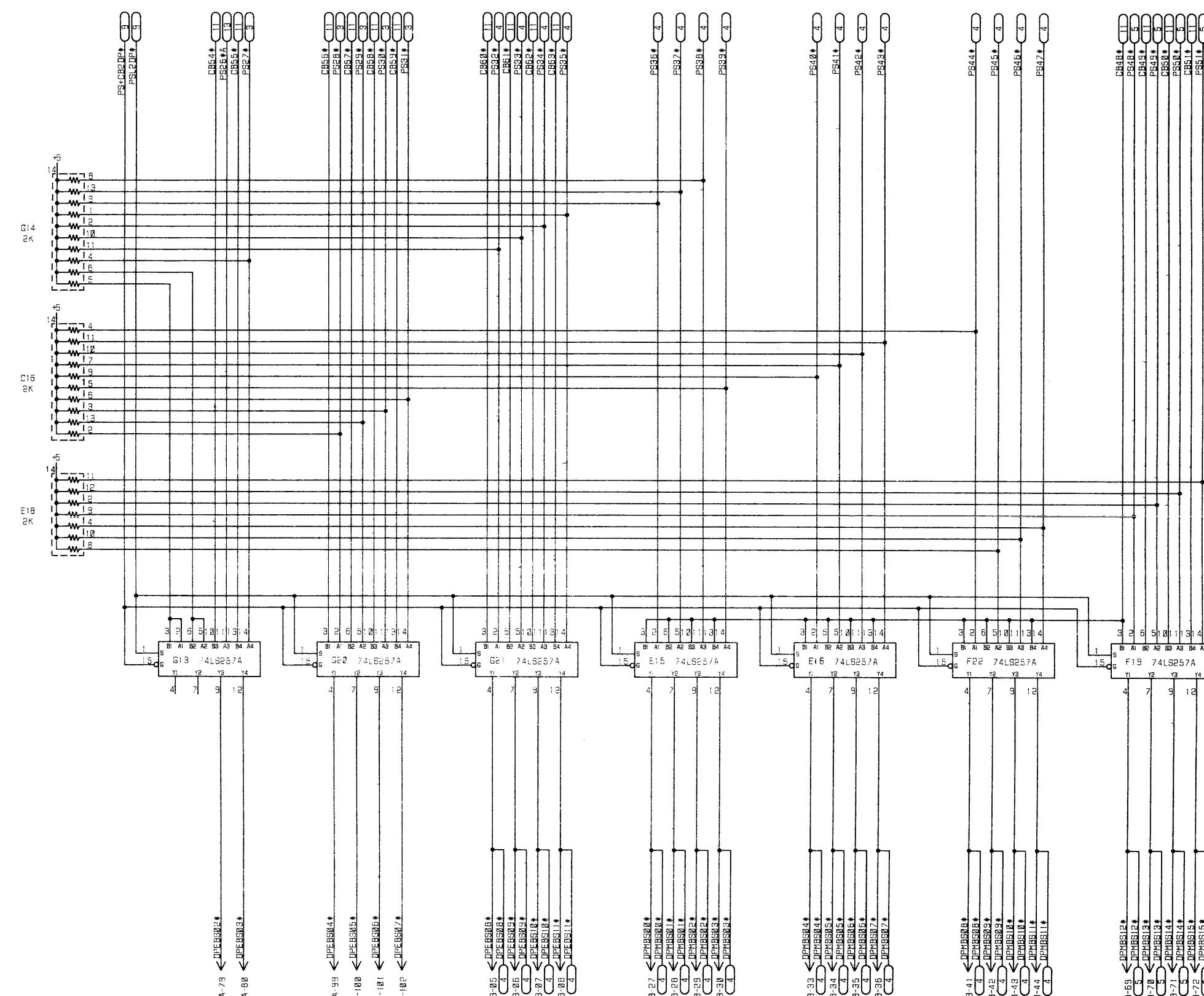
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SCALE NONE		SHEET 1 OF 4	

D

C

B

A



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56504		512-3423-002	C
SCALE	NONE	SHEET	12 OF 14

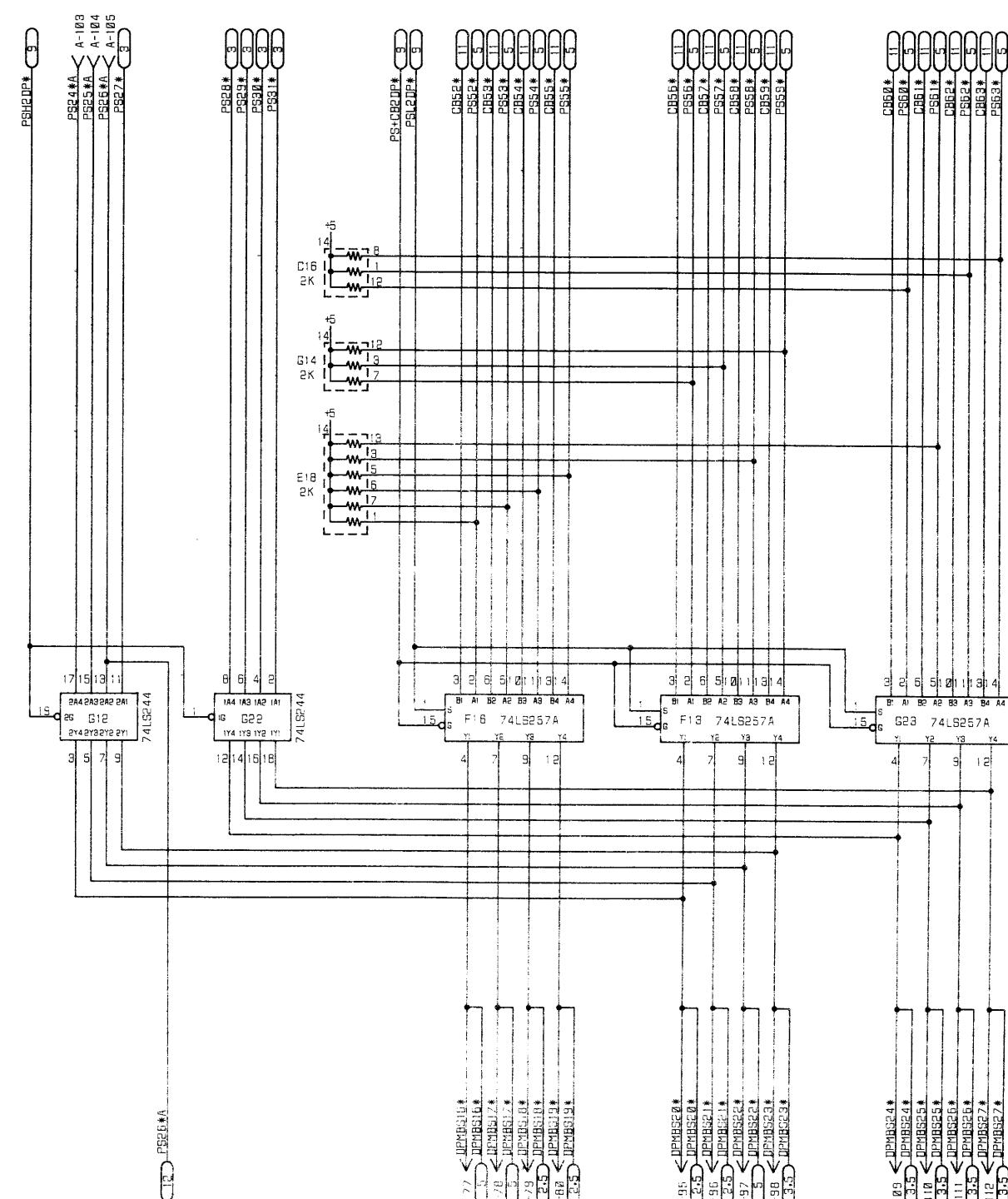
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D

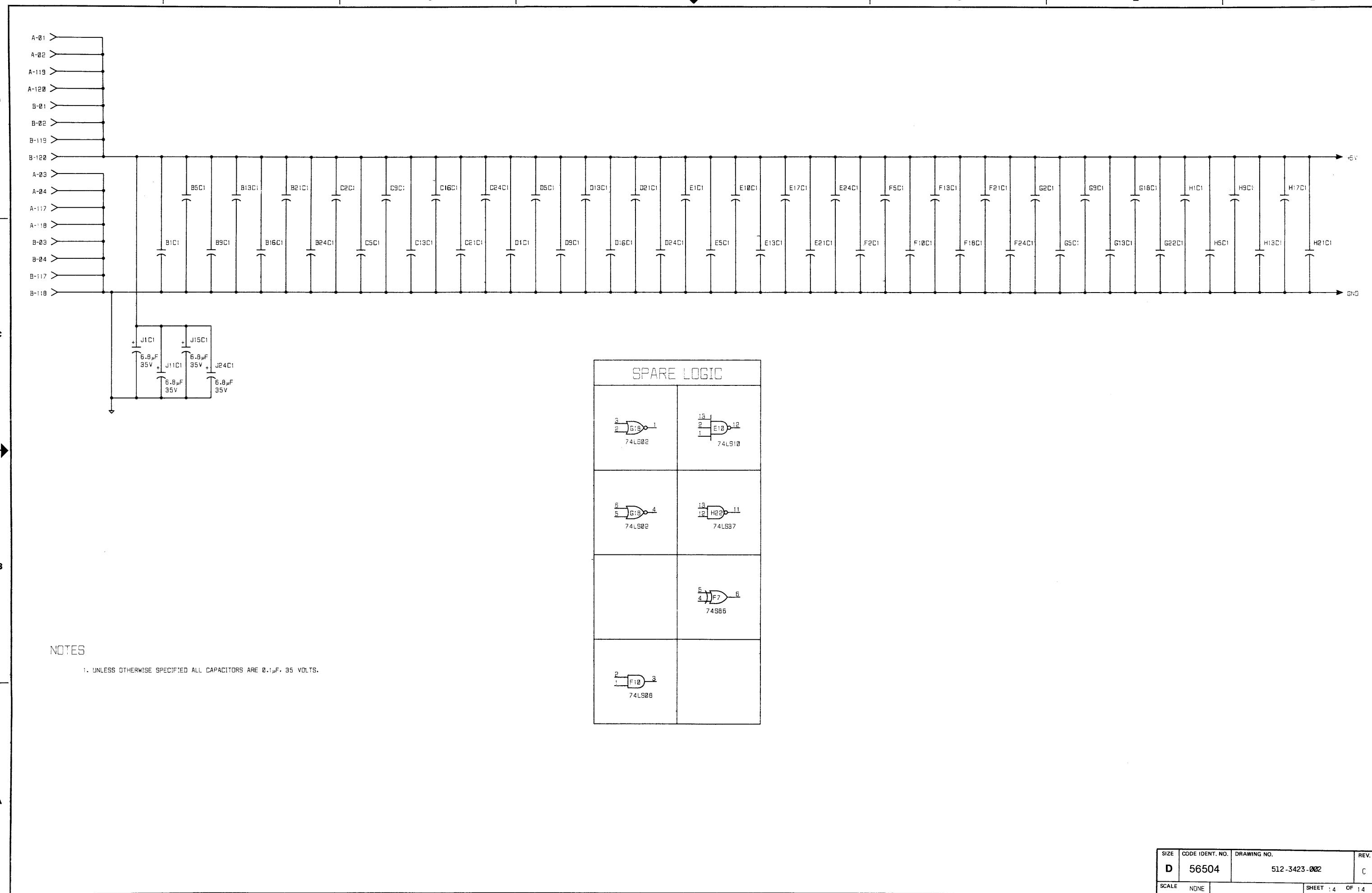
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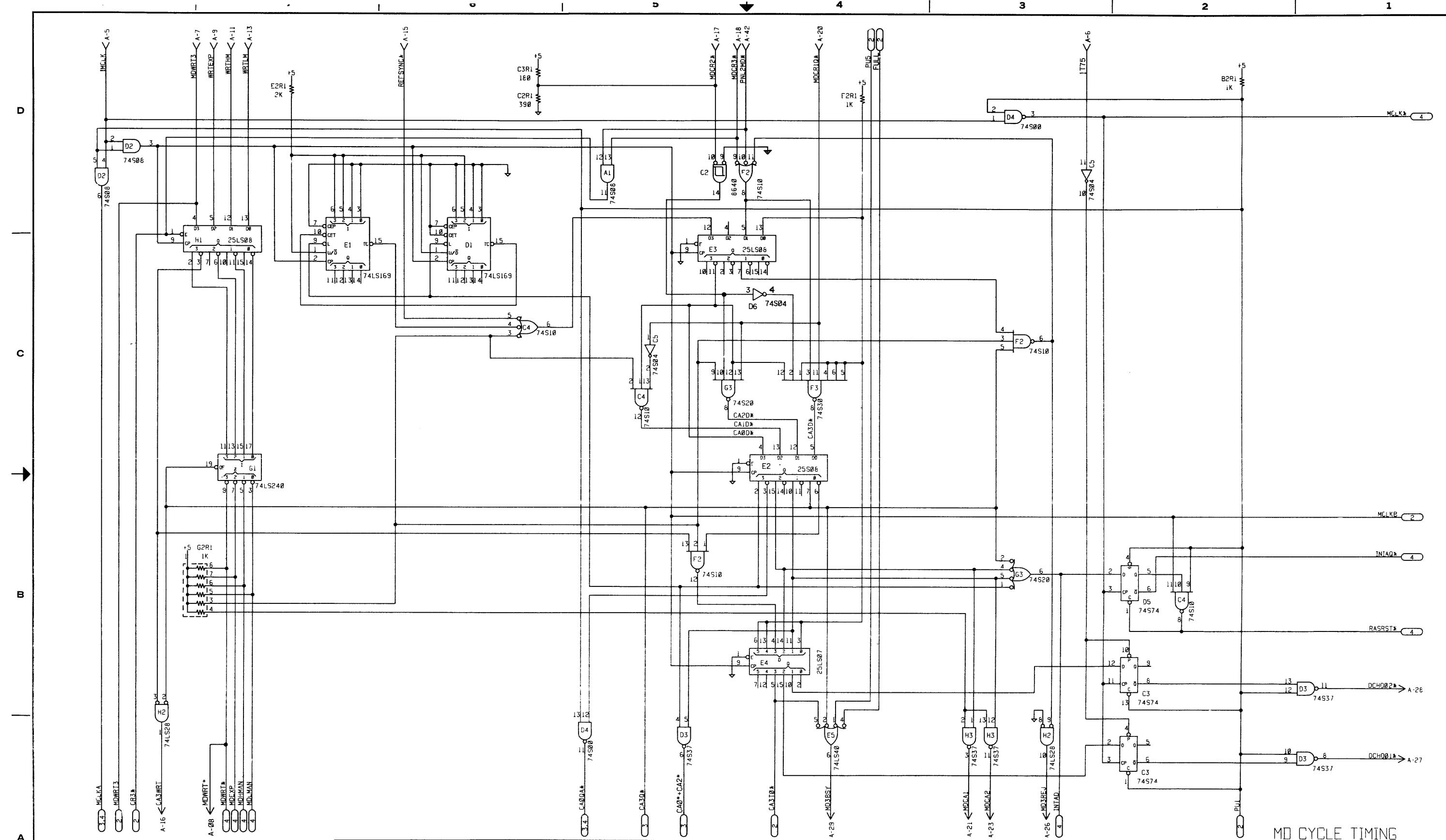
B

A



SIZE	CODE IDENT. NO.	DRAWING NO.	REV.
D	56504	512-3423-002	C





MD CYCLE TIMING

NOTES

1. UNLESS OTHERWISE SPECIFIED, ALL CAPACITORS ARE 0.1MF 50 VOLT

IMPORTANT NOTE: IGNORE DASHES IN PINOUTS (EXAMPLE:A-19)
THEY ARE FOR PURPOSES OF CLARITY ONLY

REVISIONS					
REV.	AUTH.	DESCRIPTION	ZONE	APVD / DATE	CHK
B	ECO 83196	TITLE DESCRIPTION CHANGE		27 6/30/83	SP

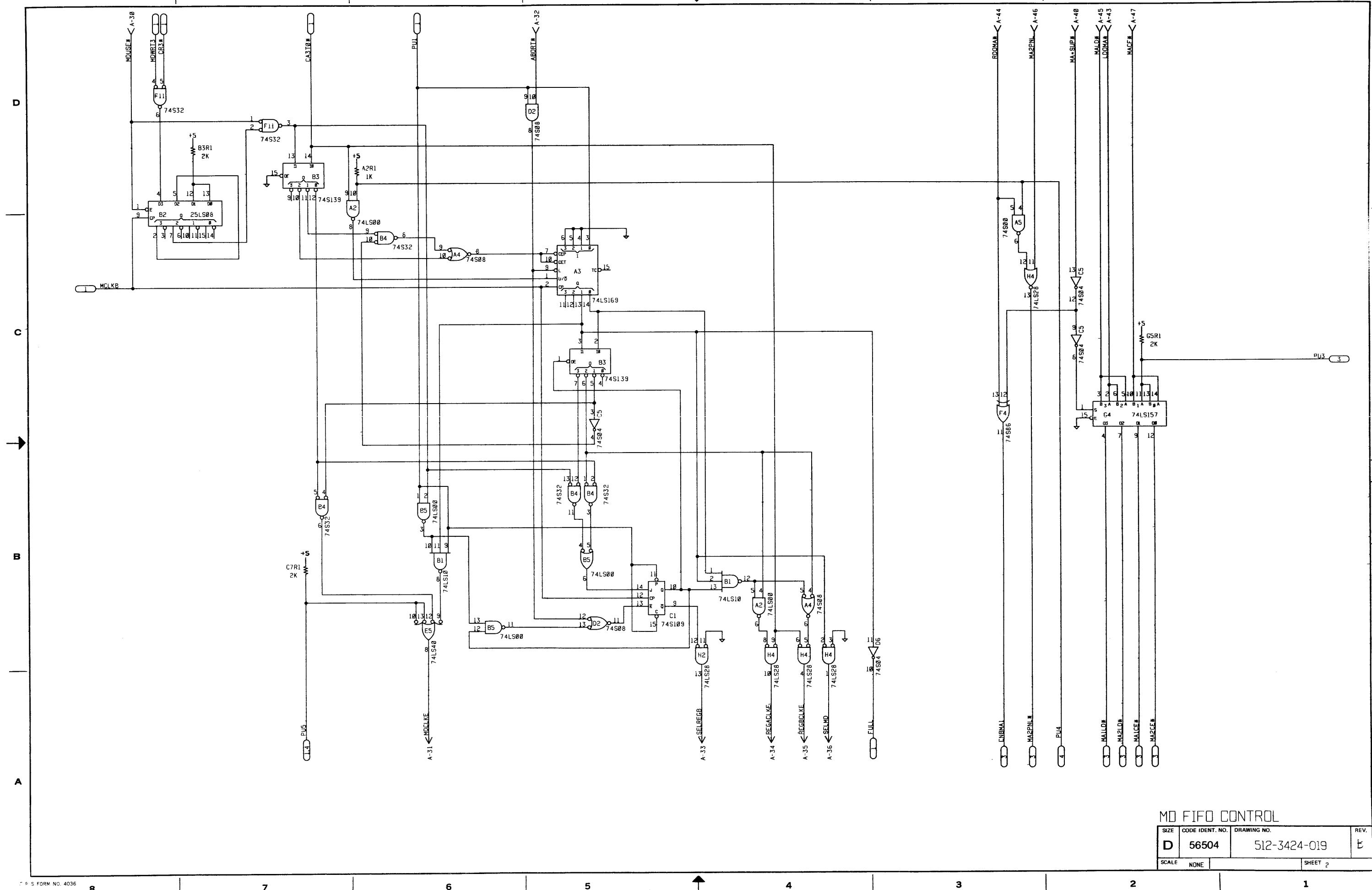
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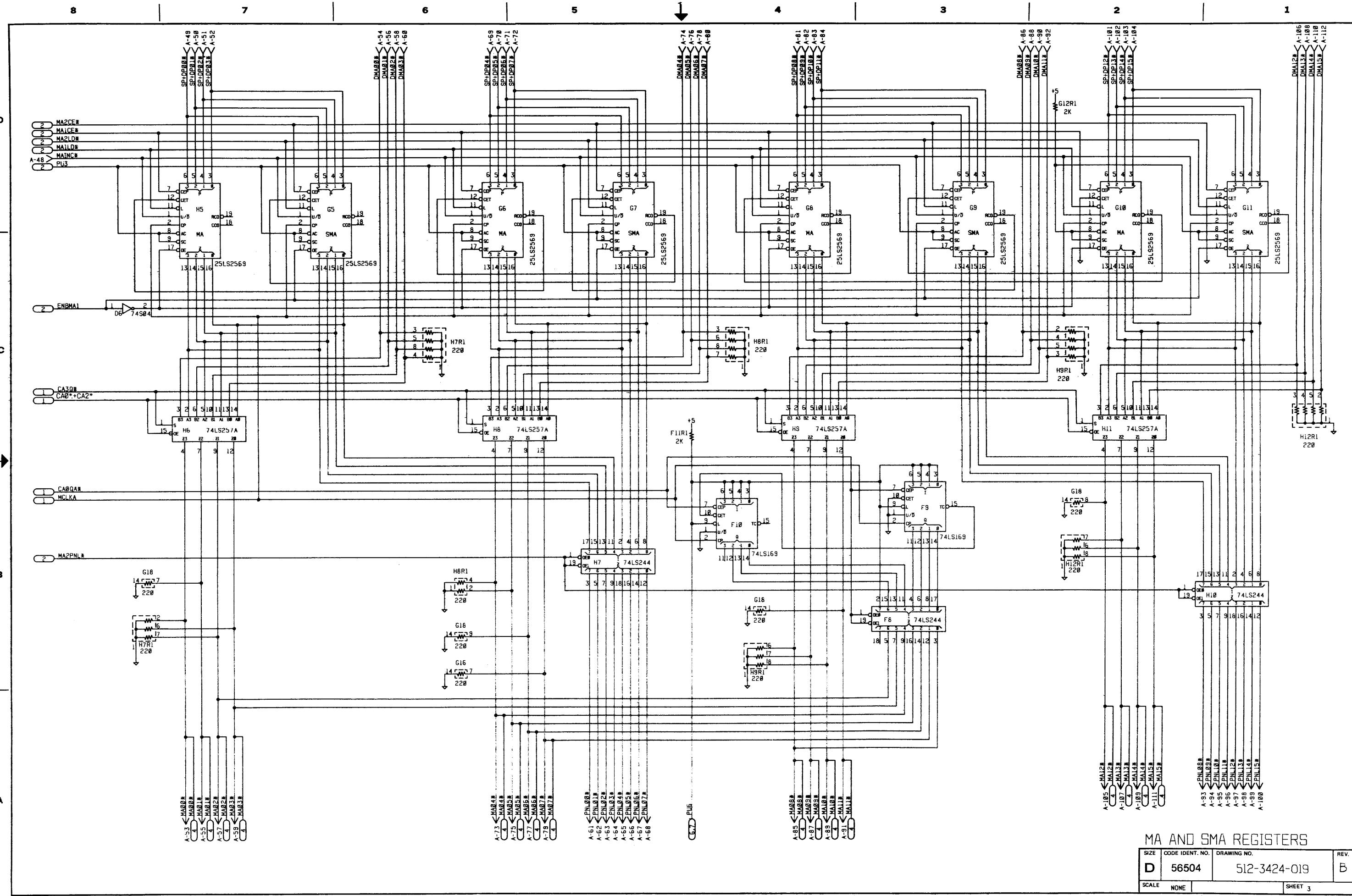
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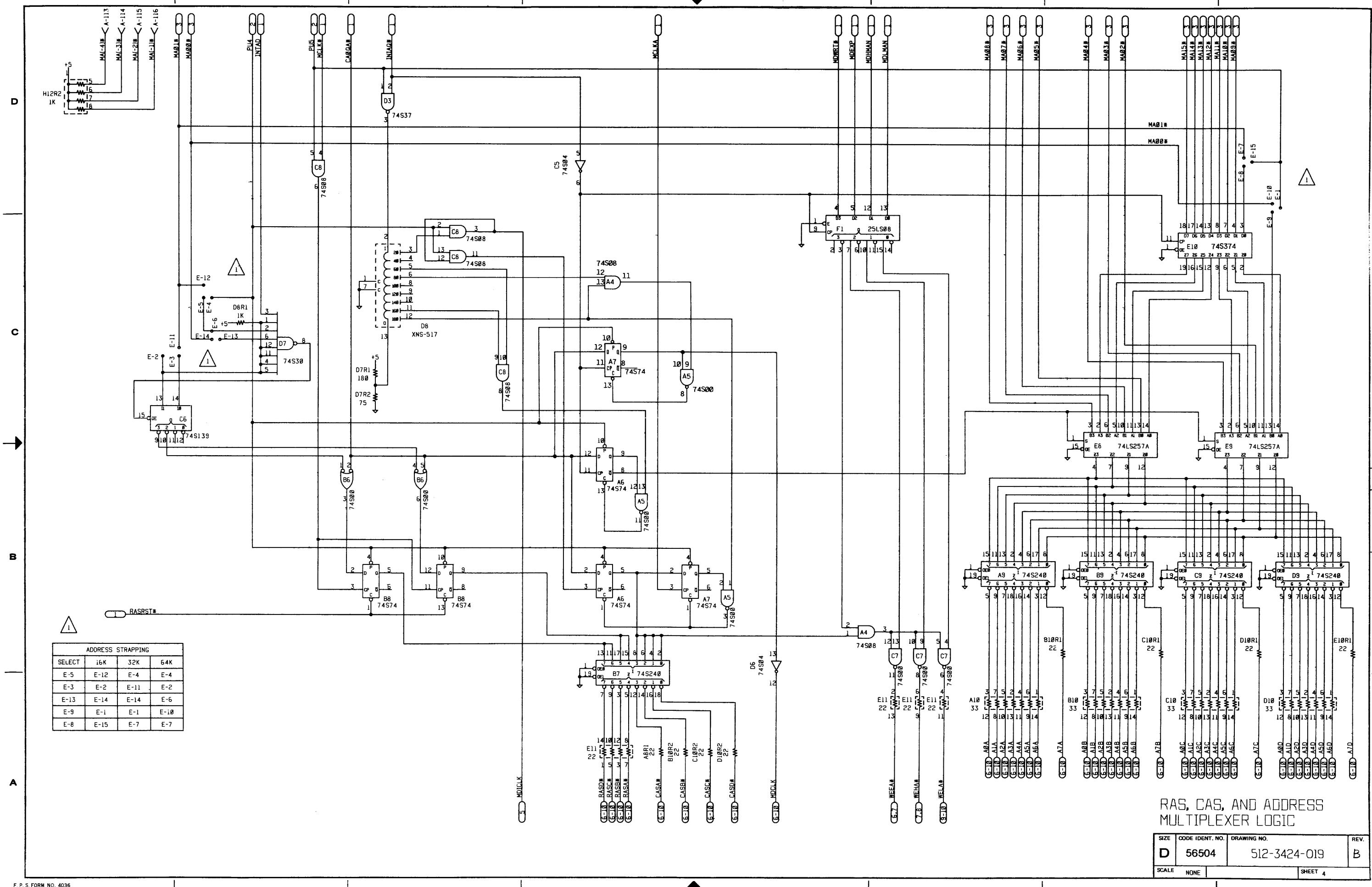
PROJ. ENG. <u>Dave Cole</u>	DATE <u>3/15/83</u>	 FLOATING POINT SYSTEMS, INC. POBox 23489 Portland OR 97223			
DRAWN BY- <u>M. KIMMEL</u>	DATE <u>8-10-81</u>				
CHECKED BY <u>R. Ichord</u>	DATE <u>3-15-83</u>	DRAWING TITLE			
MFG. ENG. <u>J. Mayers</u>	DATE <u>3/15/83</u>	SCHEMATIC, ECB 424-E, MAIN DATA, +5V ONLY			
		SIZE D	CODE IDENT. NO. 56504	DRAWING NO. 512-3424-019	REV. B

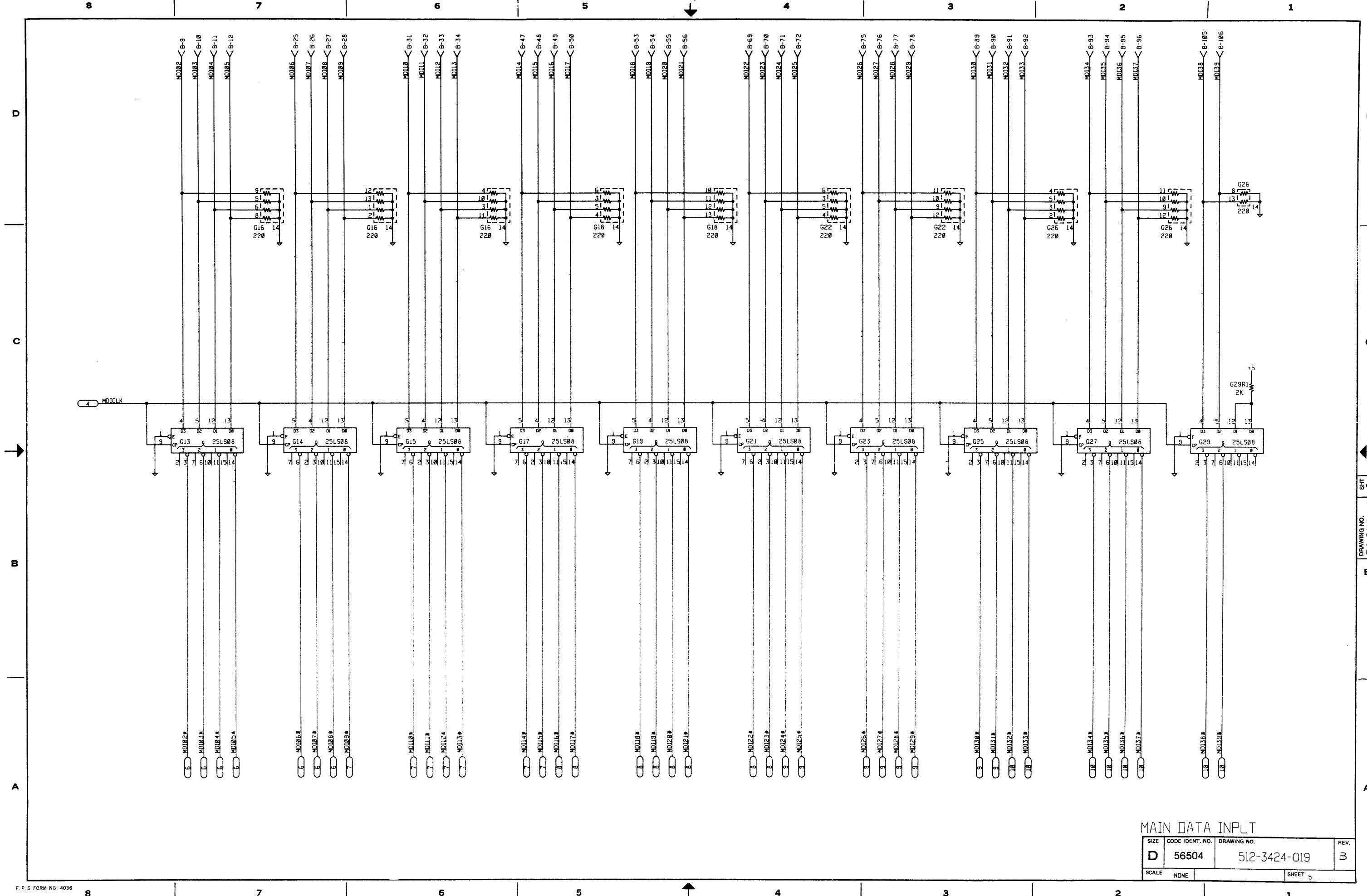


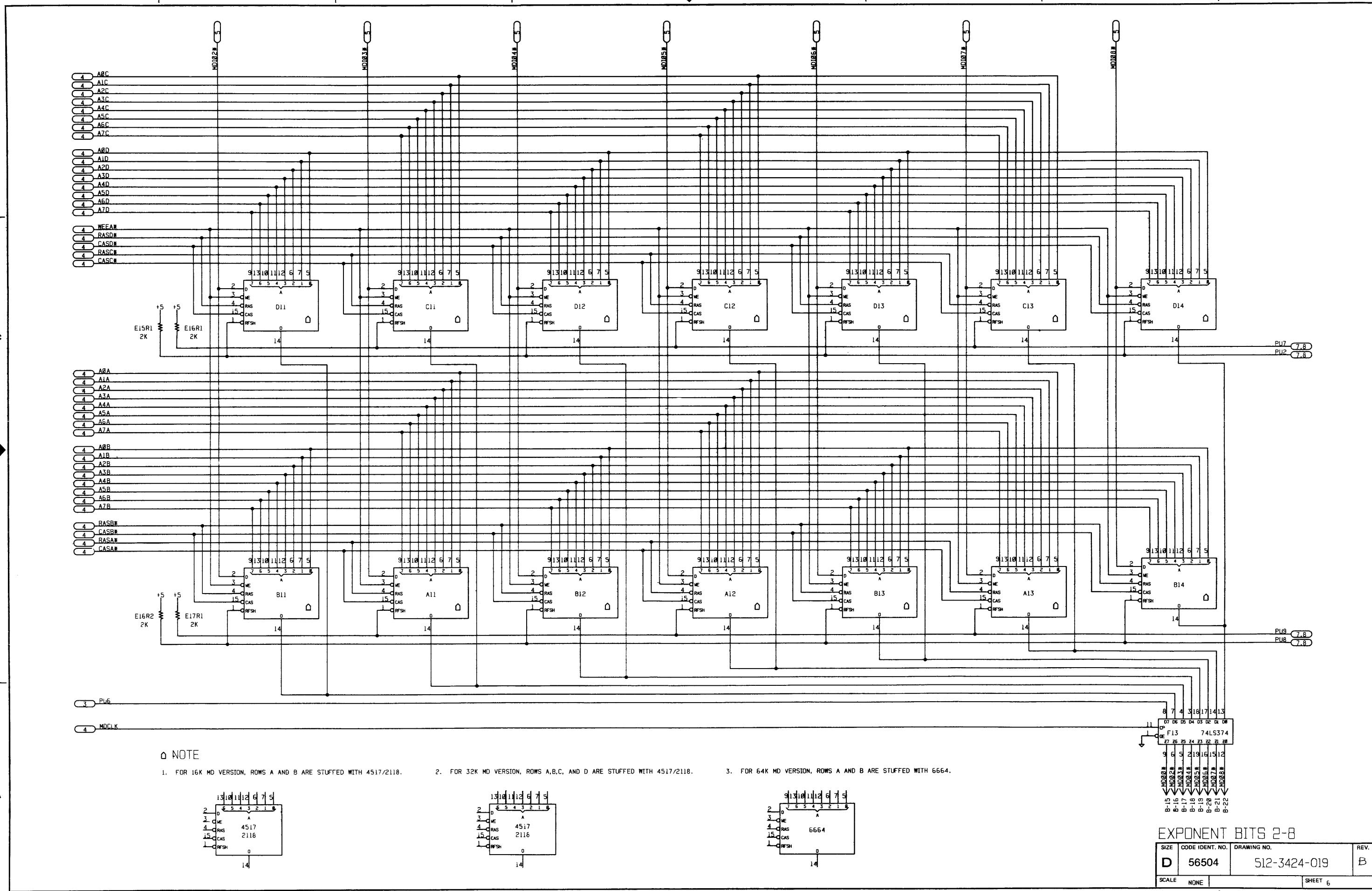


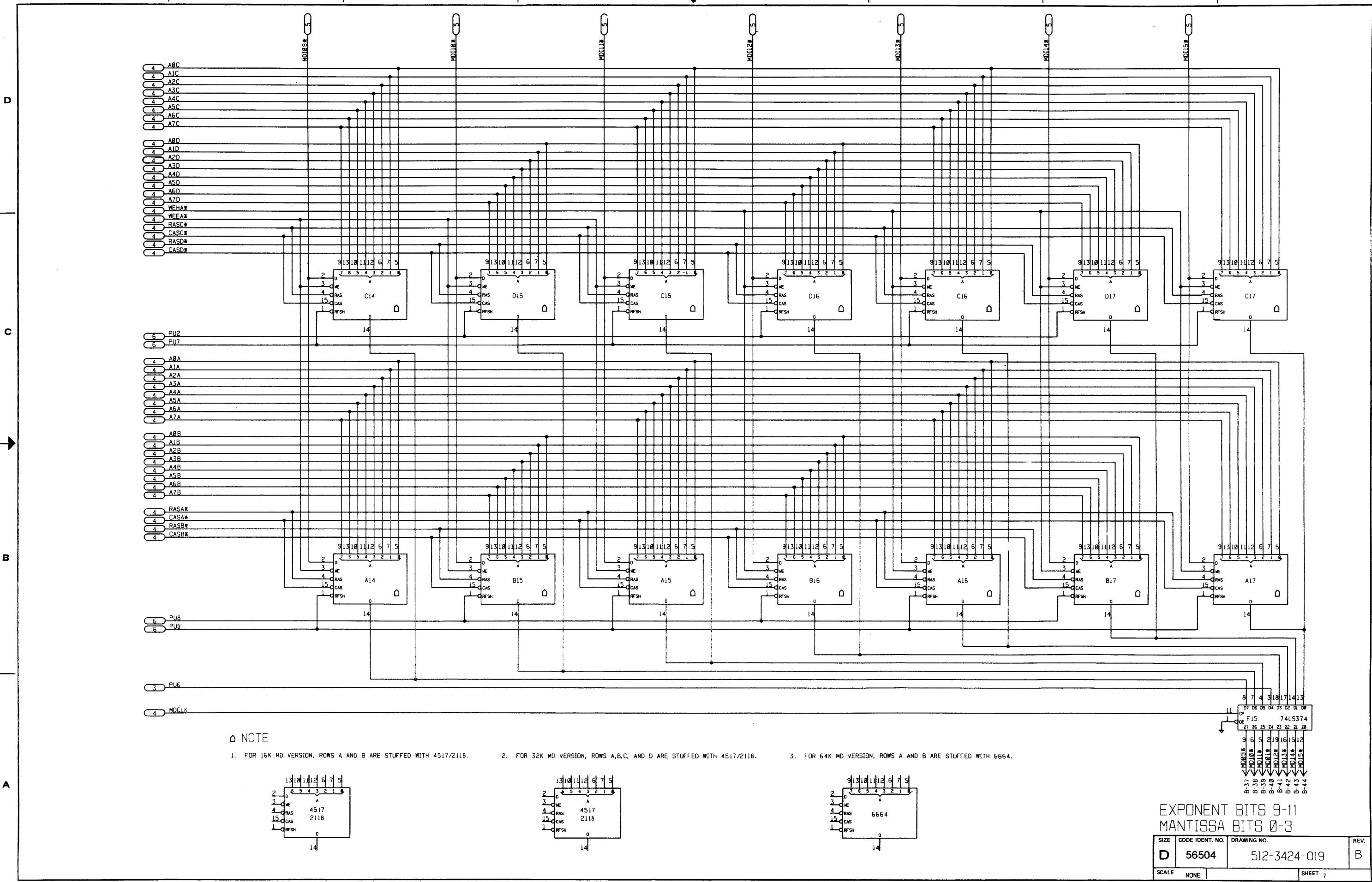
SMA AND SMA REGISTERS

ZE	CODE IDENT. NO.	DRAWING NO.	REV.
D	56504	512-3424-019	B
ALE	NONE	SHEET 3	



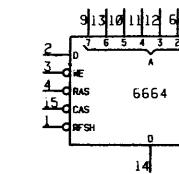
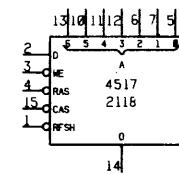
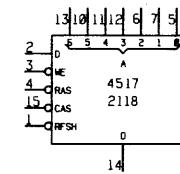






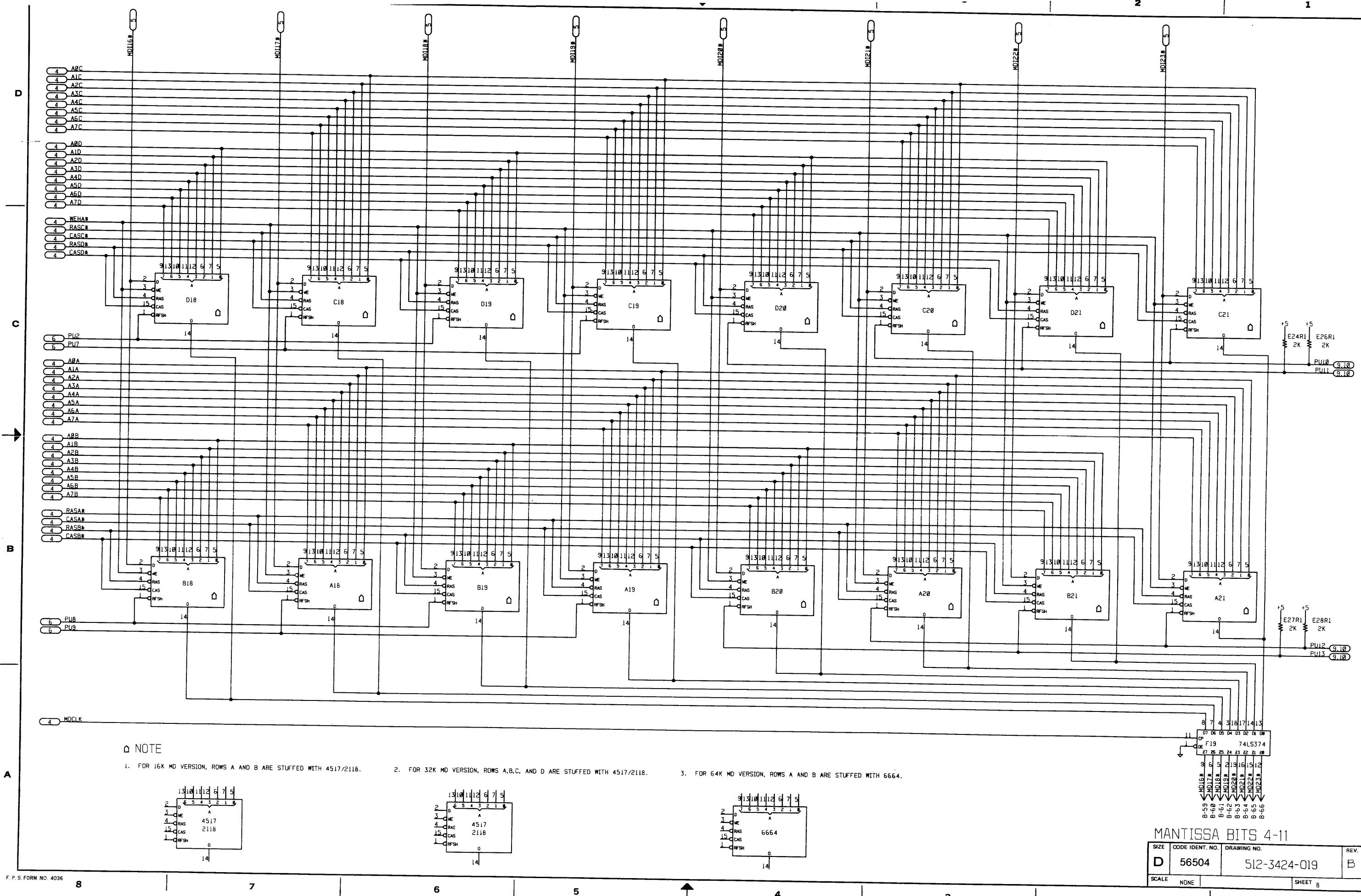
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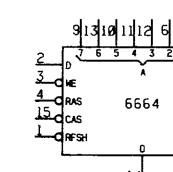
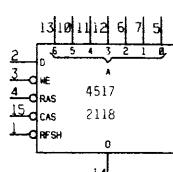
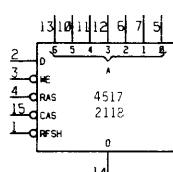
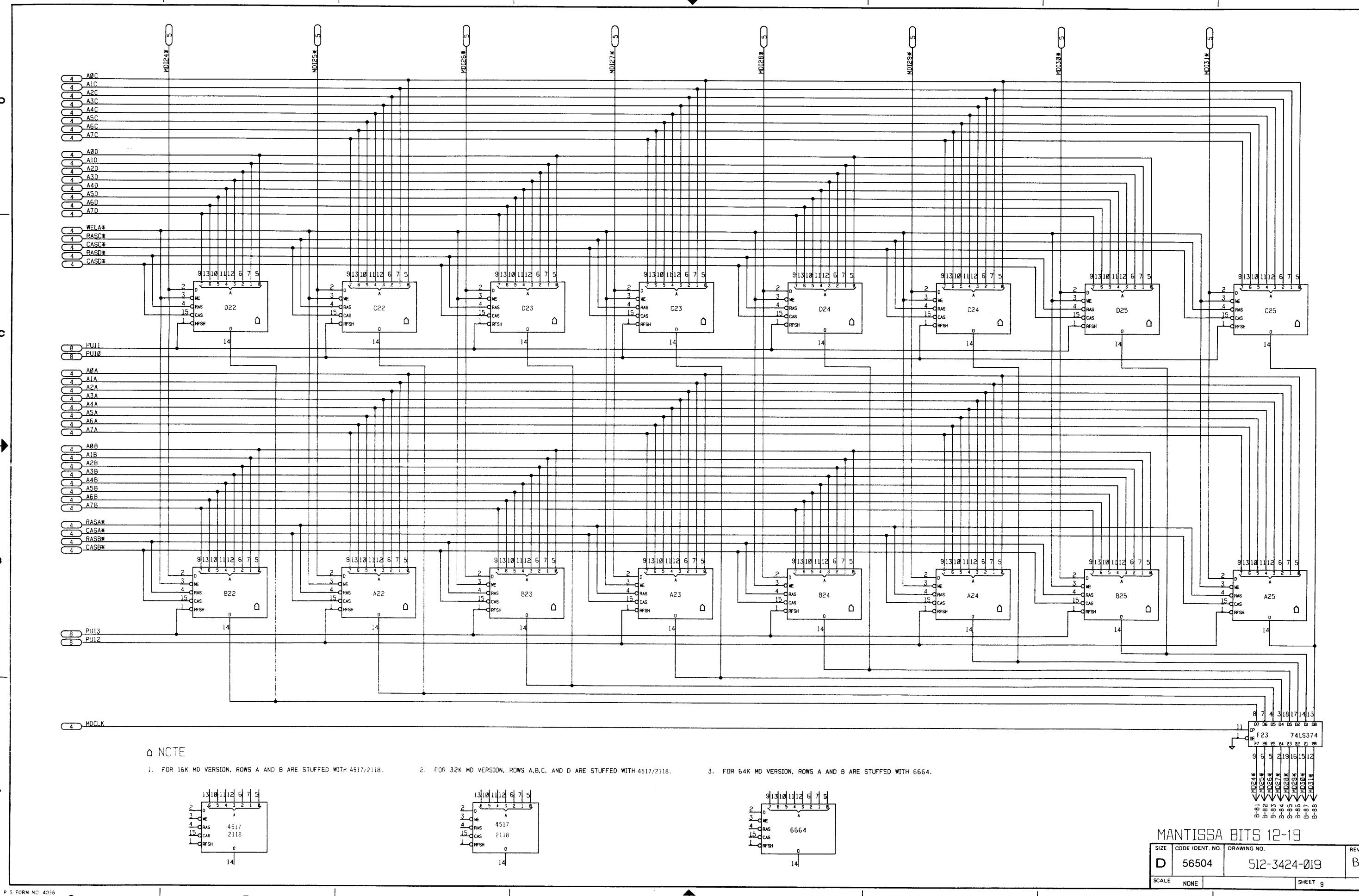
1. FOR 16K MD VERSION, ROWS A AND B ARE STUFFED WITH 4517/2118. 2. FOR 32K MD VERSION, ROWS A,B,C, AND D ARE STUFFED WITH 4517/2118. 3. FOR 64K MD VERSION, ROWS A AND B ARE STUFFED WITH 6664A

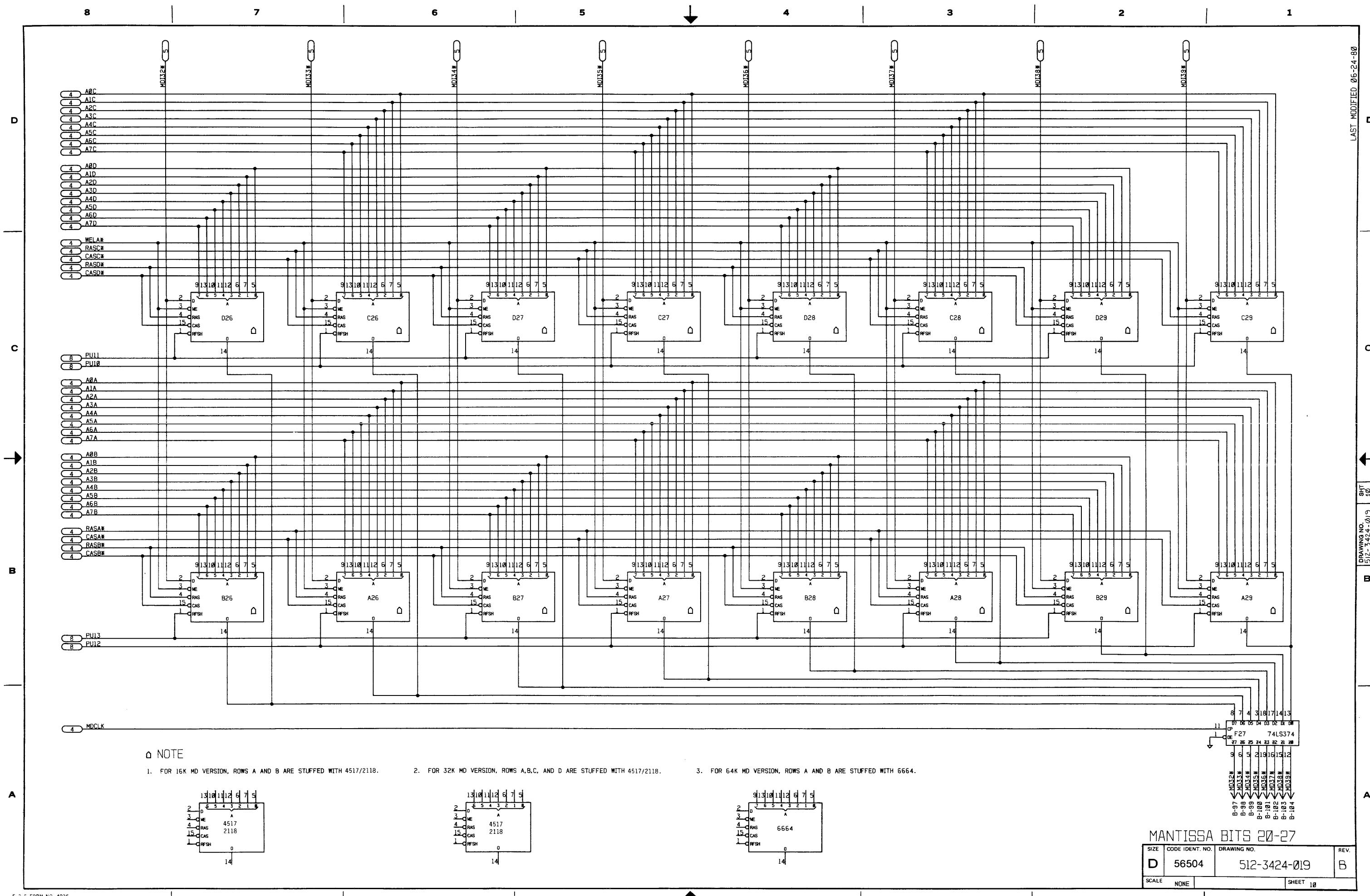


EXponent Bits 9-11
Mantissa Bits 0-3

SIZE D	CODE IDENT. NO. 56504	DRAWING NO. 512-3424-019	REV. B
SCALE NONE			SHEET 7

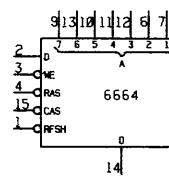
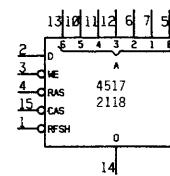
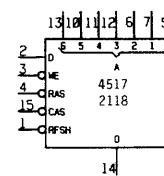






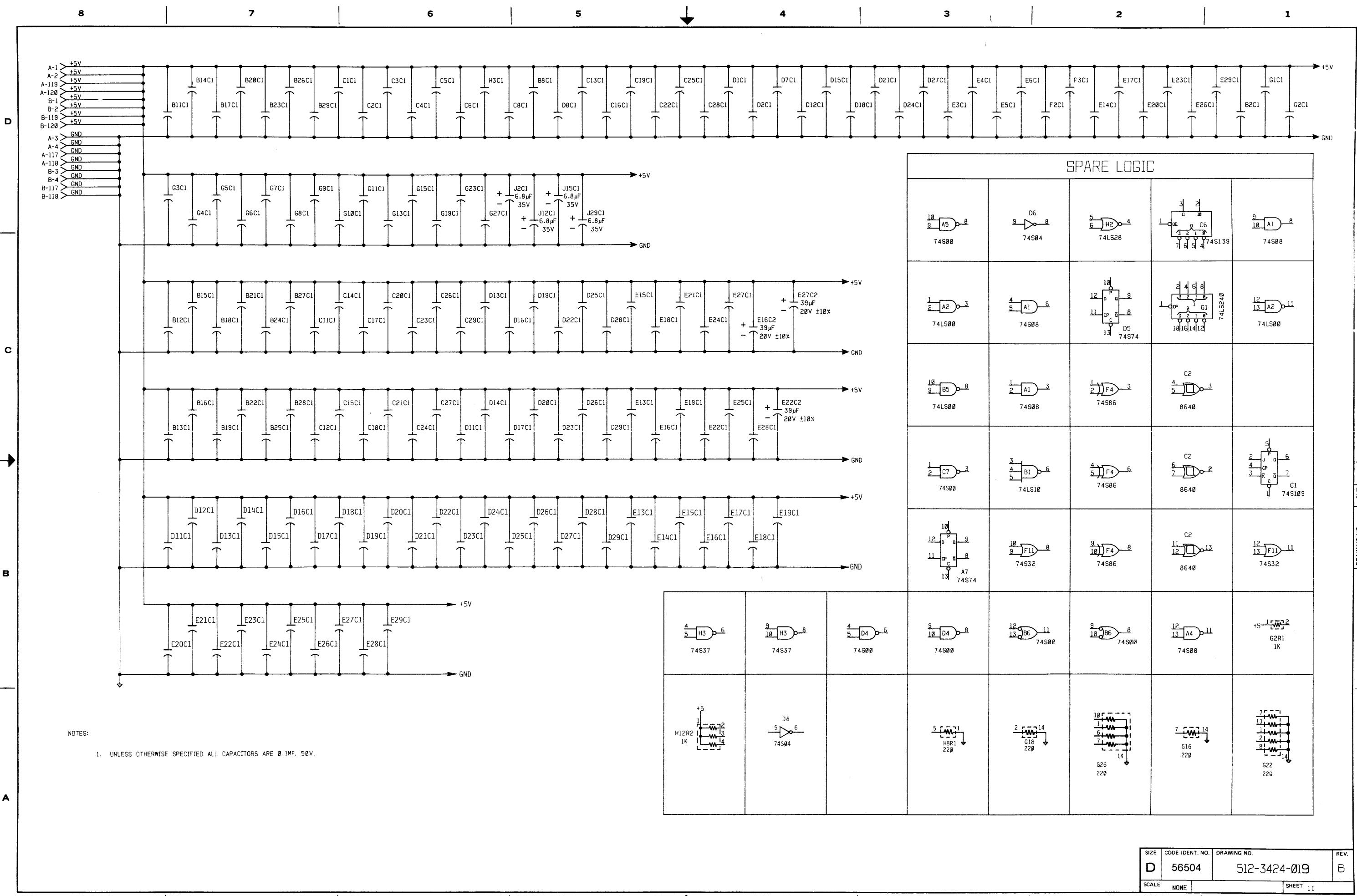
NOTE

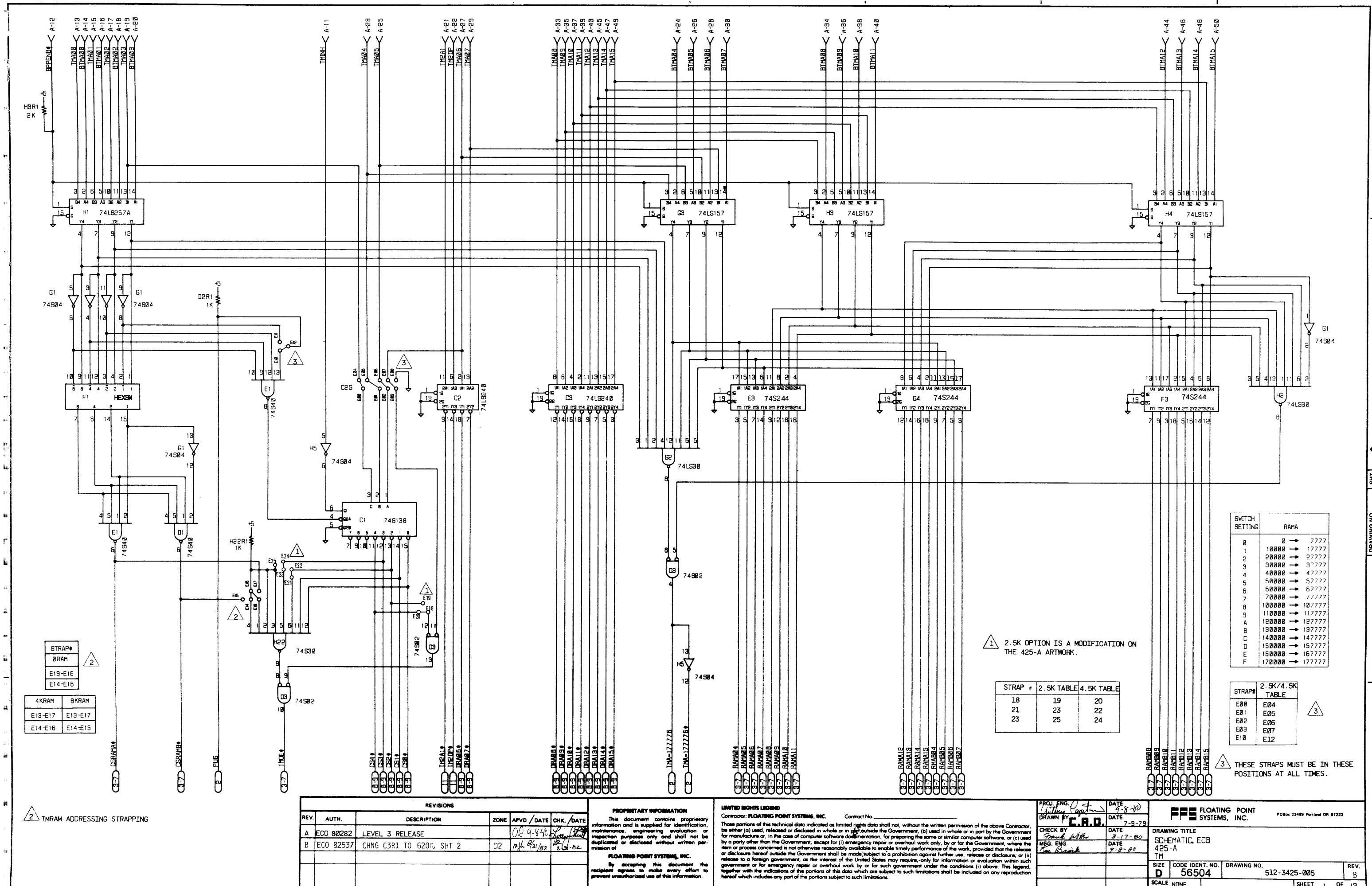
1. FOR 15K MD VERSION, ROWS A AND B ARE STUFFED WITH 4517/2118. 2. FOR 32K MD VERSION, ROWS A,B,C, AND D ARE STUFFED WITH 4517/2118. 3. FOR 64K MD VERSION, ROWS A AND B ARE STUFFED WITH 6664.

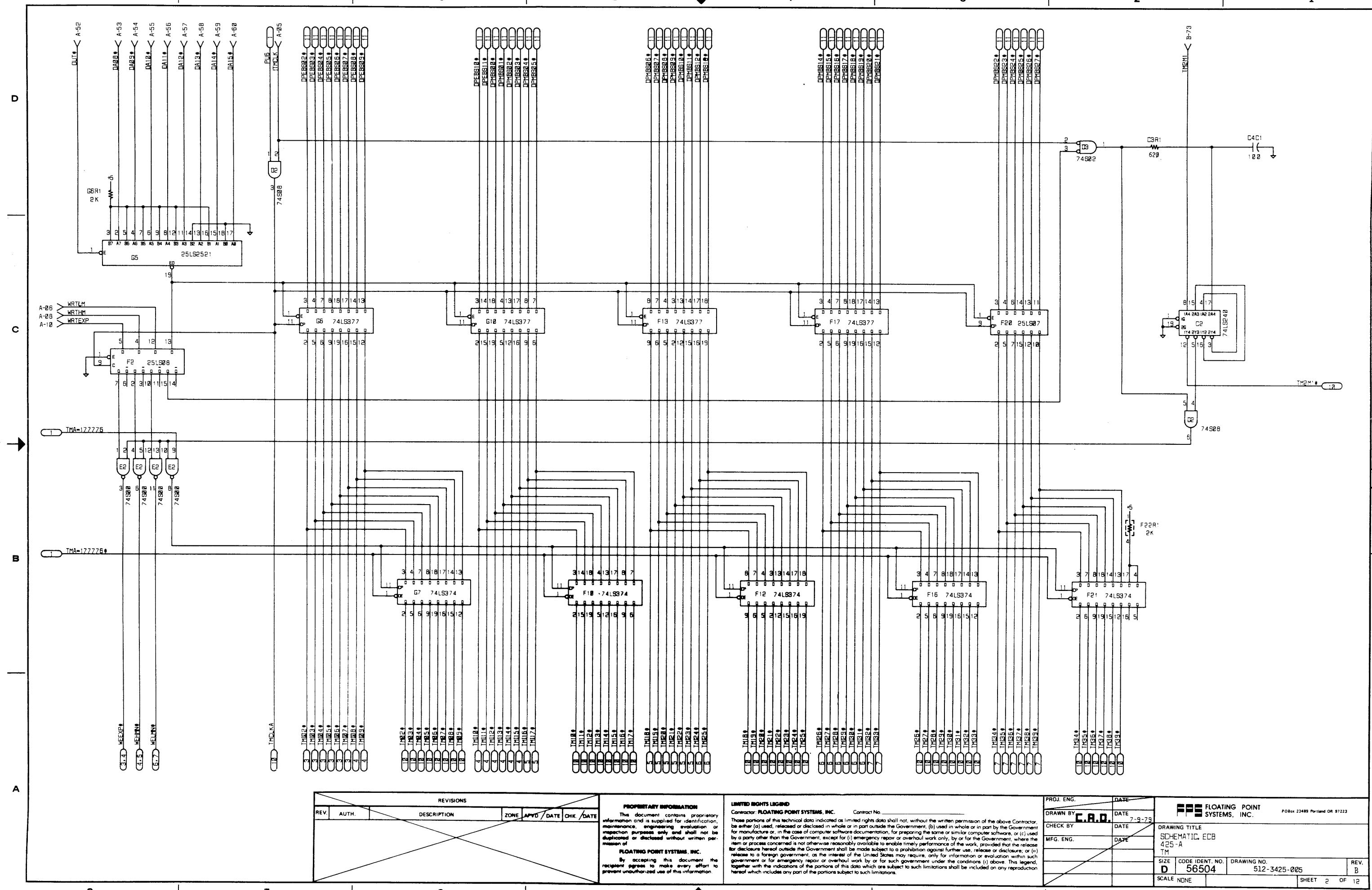


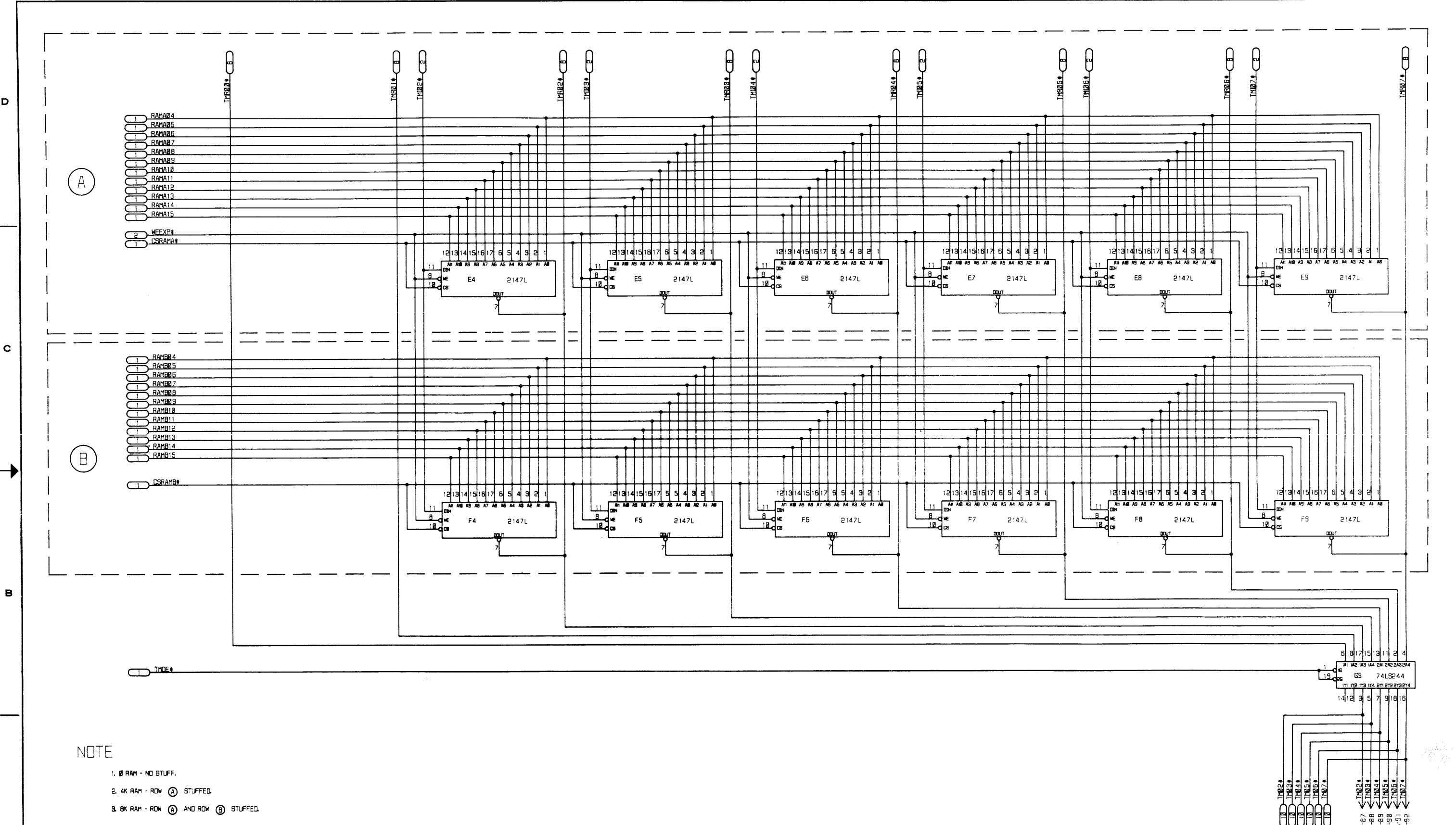
MANTISSA BITS 20-27

SIZE	CODE IDENT. NO.	DRAWING NO.	REV.
D	56504	512-3424-019	B
SCALE	NONE	SHEET 10	









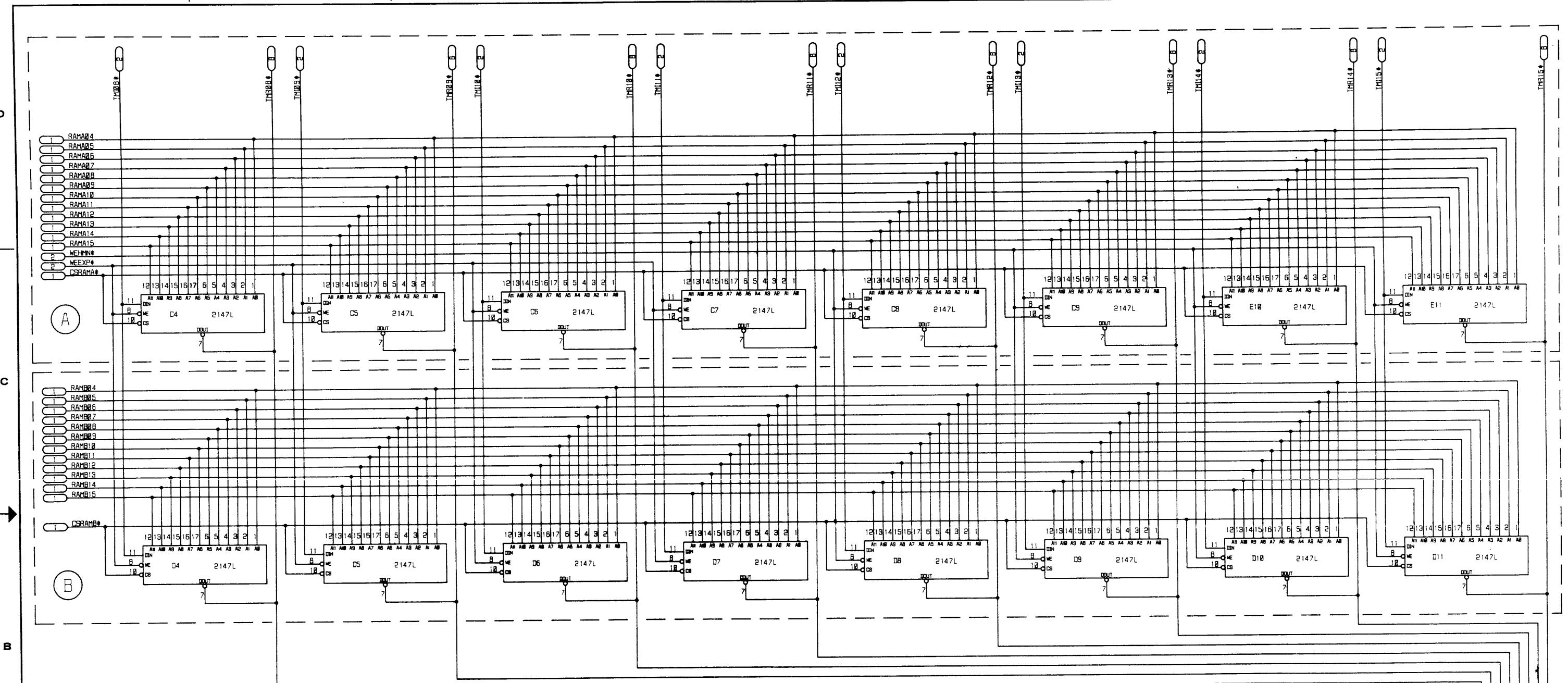
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REV.	AUTH.	DESCRIPTION	ZONE	APV'D	DATE	CHK.	DATE

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CHECK BY	DATE	
MFG. ENG.	DATE	
DRAWING TITLE		
SCHEMATIC, ECB		
425-A		
TM		
SIZE	CODE IDENT. NO.	DRAWING NO.
D	56504	512-3425-005
SCALE NONE		REV. B



NOTE

1. 0 RAM - NO STUFF.
2. 4K RAM - ROW **A** STUFFED.
3. 8K RAM - ROW **A** AND ROW **B** STUFFED.

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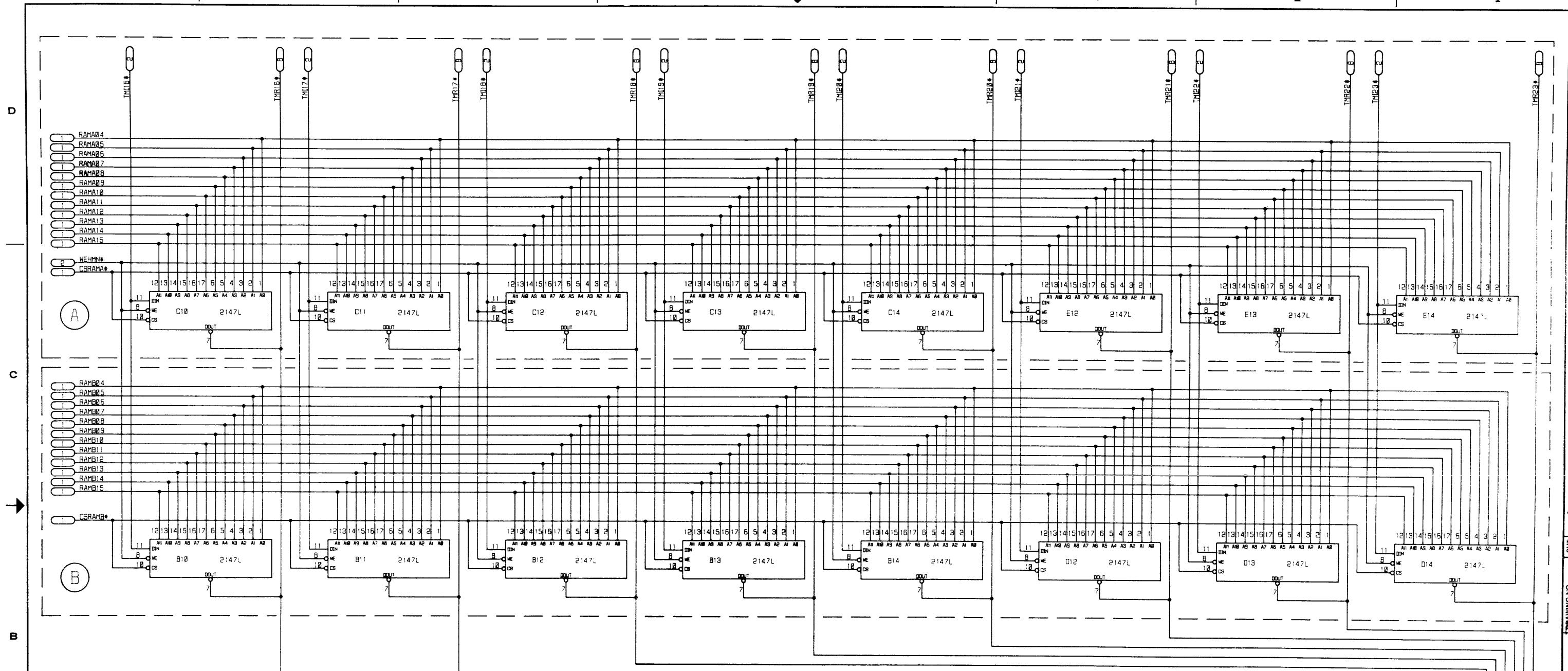
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MFG. ENG. _____	DATE _____
SIZE D	CODE IDENT. NO. 56504
SCALE NONE	DRAWING NO. 512-3425-005

DRAWING TITLE	
SCHEMATIC ECD 425-A TM	
REV. B	SHEET 4 OF 12



NOTE

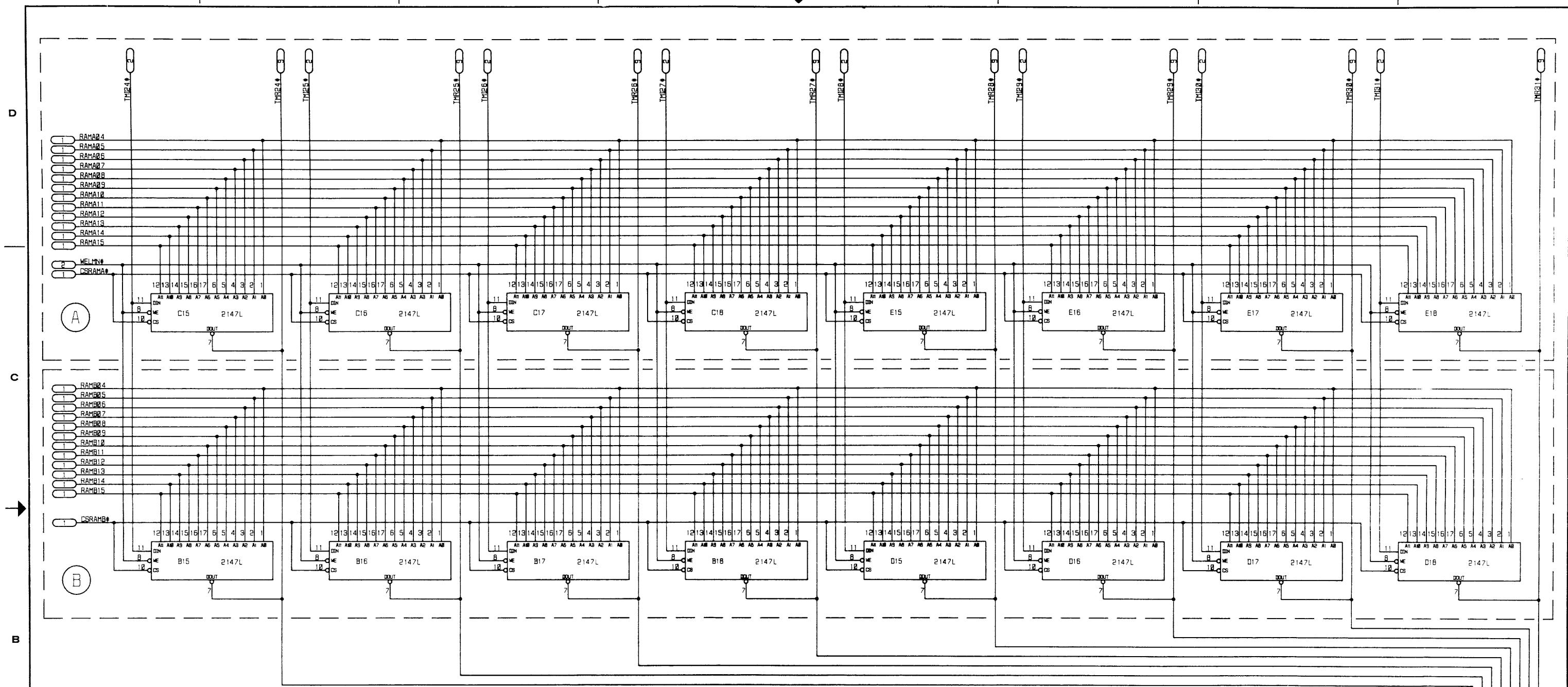
1. 0 RAM - NO STUFF.
2. 4K RAM - ROW ① STUFFED.
3. 8K RAM - ROW ① AND ROW ② STUFFED.

REVISIONS		ZONE	APV/D	DATE	CHK./DATE
REV.	AUTH.				

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DRAWN BY C.A.D.	DATE 7-9-79	
CHECK BY	DATE	
MFG. ENG.	DATE	
SIZE	CODE IDENT. NO.	DRAWING NO. 512-3425-005 REV. B
SCALE	NONE	SHEET 5 OF 12



11

1. 0 RAM - NO STUFF.
 2. 4K RAM - ROW A STUFFED.
 3. 8K RAM - ROW A AND ROW B STUFFED.

REVISIONS					
REV.	AUTH	DESCRIPTION	ZONE	APVD	DATE

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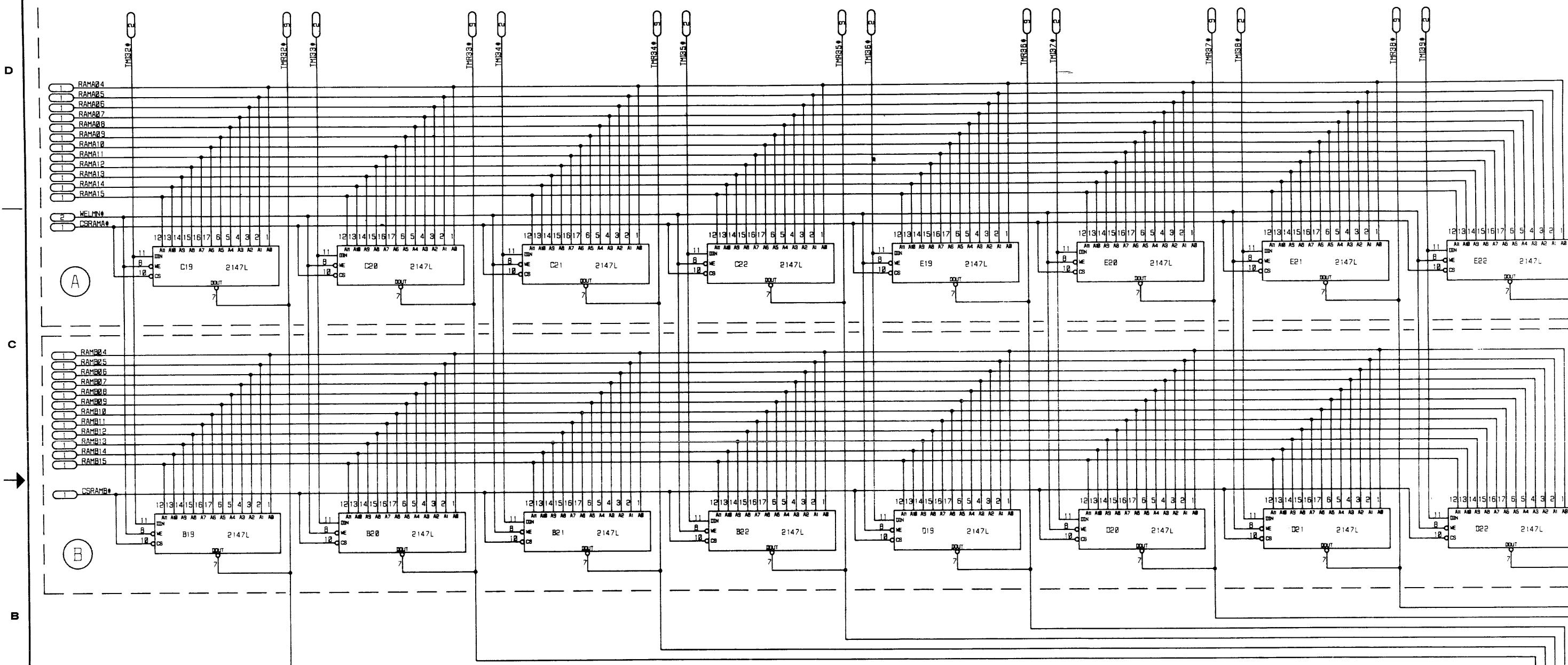
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RAWN BY	DATE	POBox 23489 Portland OR 97223		
C.R.D.	7-9-79			
HECK BY	DATE	DRAWING TITLE		
FG. ENG.	DATE	SCHEMATIC, ECB 425-A TM		
		SIZE	CODE IDENT. NO.	DRAWING NO.
		D	56504	512-3425-00 5
		SCALE		REV.
		NONE		B
				SHEET 6 OF 12

D



DRAWING NO. SHT

1

NOTE

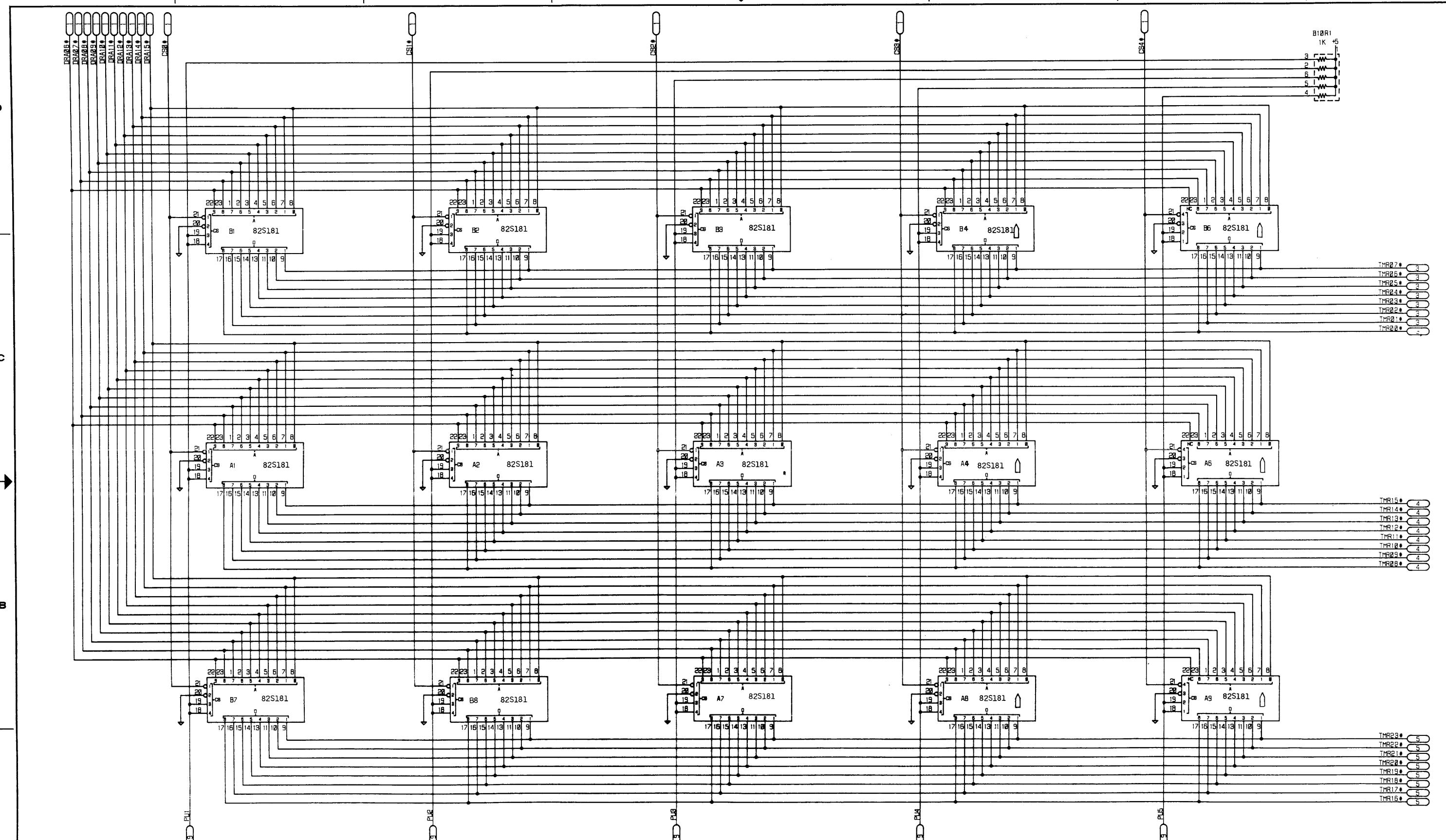
1. Ø RAM - NO STUFF.
2. 4K RAM - ROW **(A)** STUFFED.
3. 8K RAM - ROW **(A)** AND ROW **(B)** STUFFED.

A

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DRAWN BY	DATE	SYSTEMS, INC.	
C.R.D.	7-9-79	PO BOX 23489 Portland OR 97223	
CHECK BY	DATE	DRAWING TITLE	
MFG. ENG.	DATE	SCHEMATIC, ECB	
		425-A	
		TM	
SIZE	CODE IDENT. NO.	DRAWING NO.	
D	56504	512-3425-005	
REV. B		SHEET 7 OF 12	



NOTE

1. FOR 2.5K TM ROM OPTION. THESE ARE NO STUFF.

REVISIONS					
REV.	AUTH.	DESCRIPTION	ZONE	APVU	DATE
REVISIONS					

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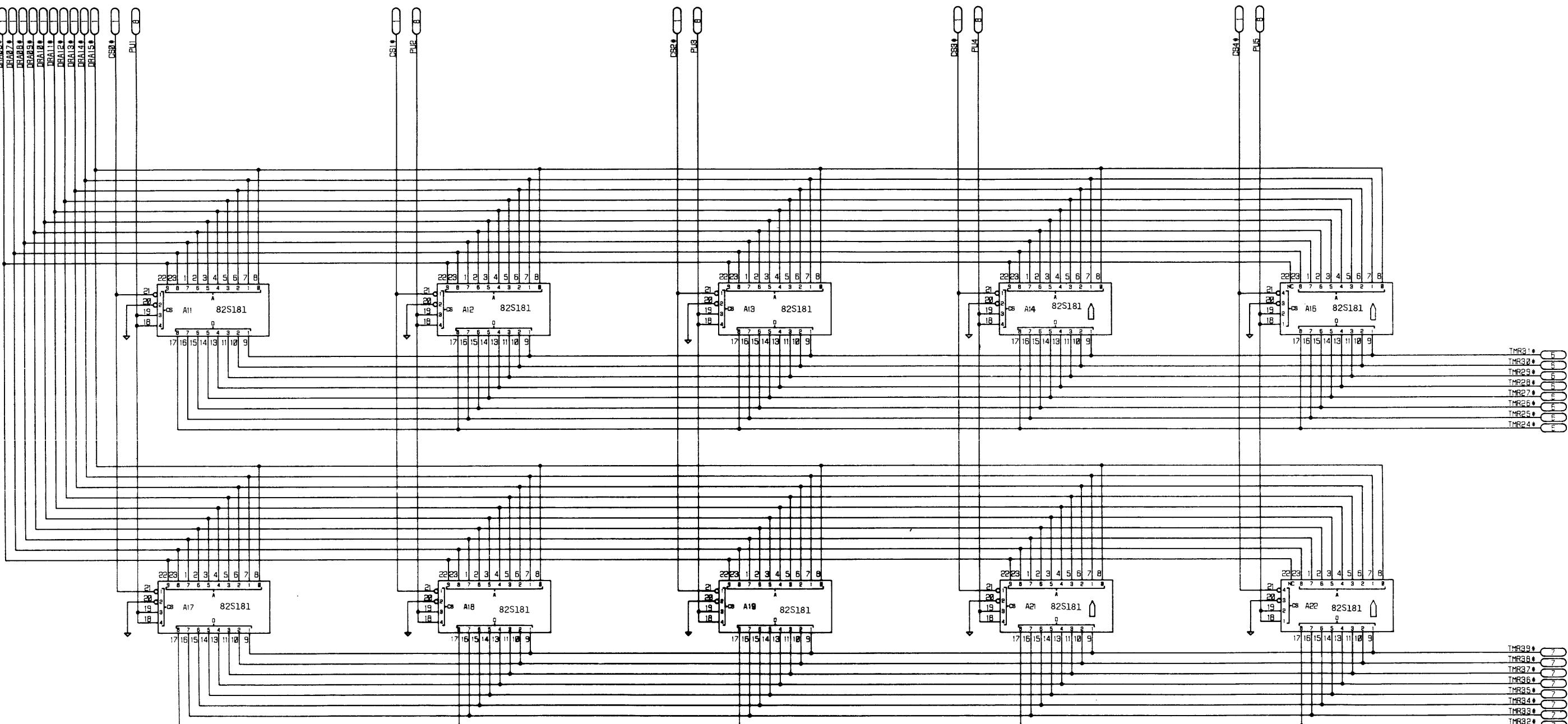
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MFG. ENG.	DATE	SCHEMATIC, ECD	
		425-A	
		TM	
SIZE	CODE IDENT. NO.	DRAWING NO.	
D	56504	512-3425-005	
REV. B		REV. B	
SCALE NONE		SHEET B OF 12	



NOTE

1. FOR 2.5K TM ROM OPTION. THESE ARE NO STUFF.

REVISIONS					
REV.	AUTH.	DESCRIPTION	ZONE	APV/D	CHK./DATE
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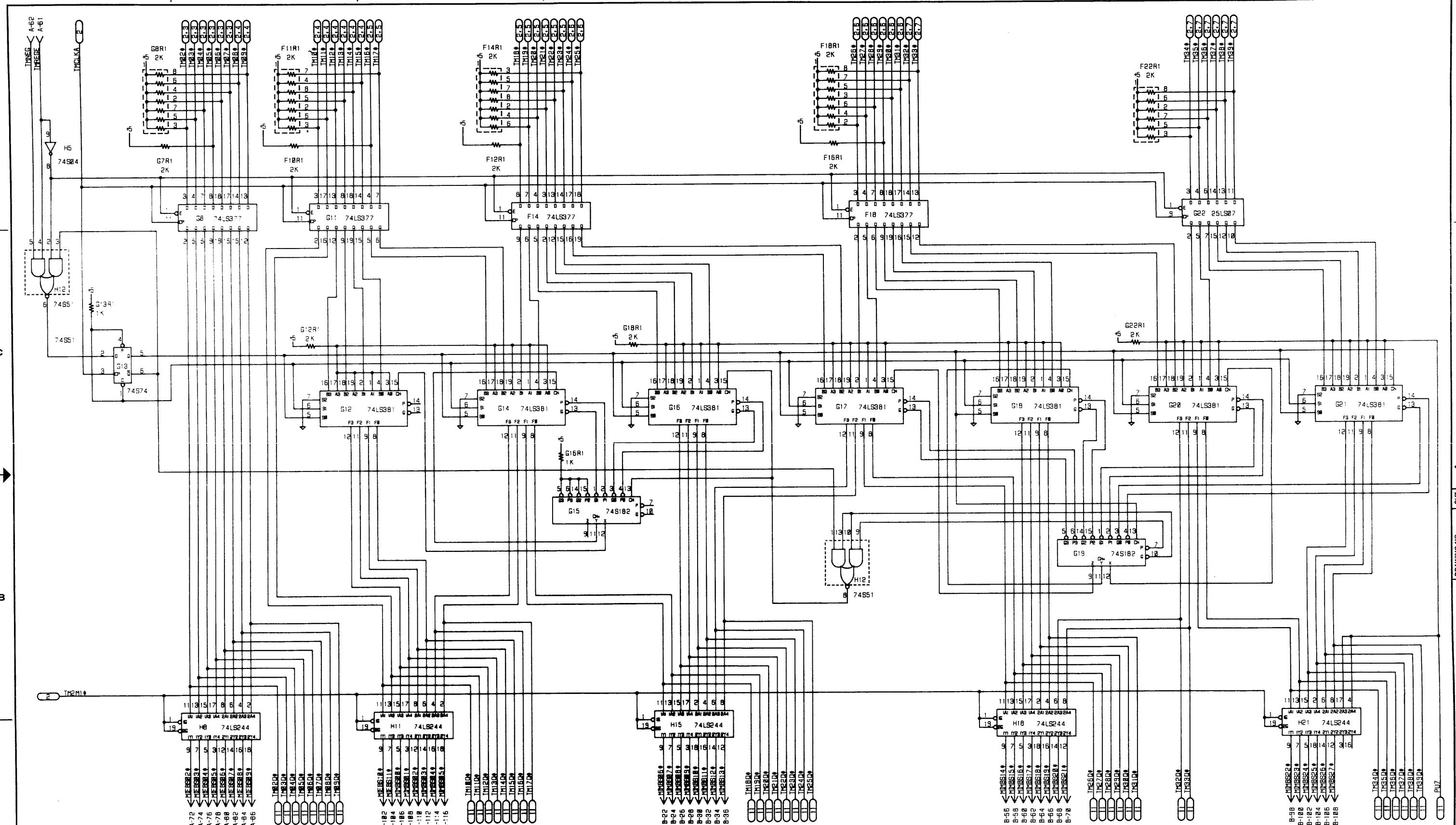
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SIZE D	CODE IDENT. NO. 56504
SCALE NONE	DRAWING NO. 512-3425-005
REV. B	REV. B



TM NEG	381	S2	S1	S0
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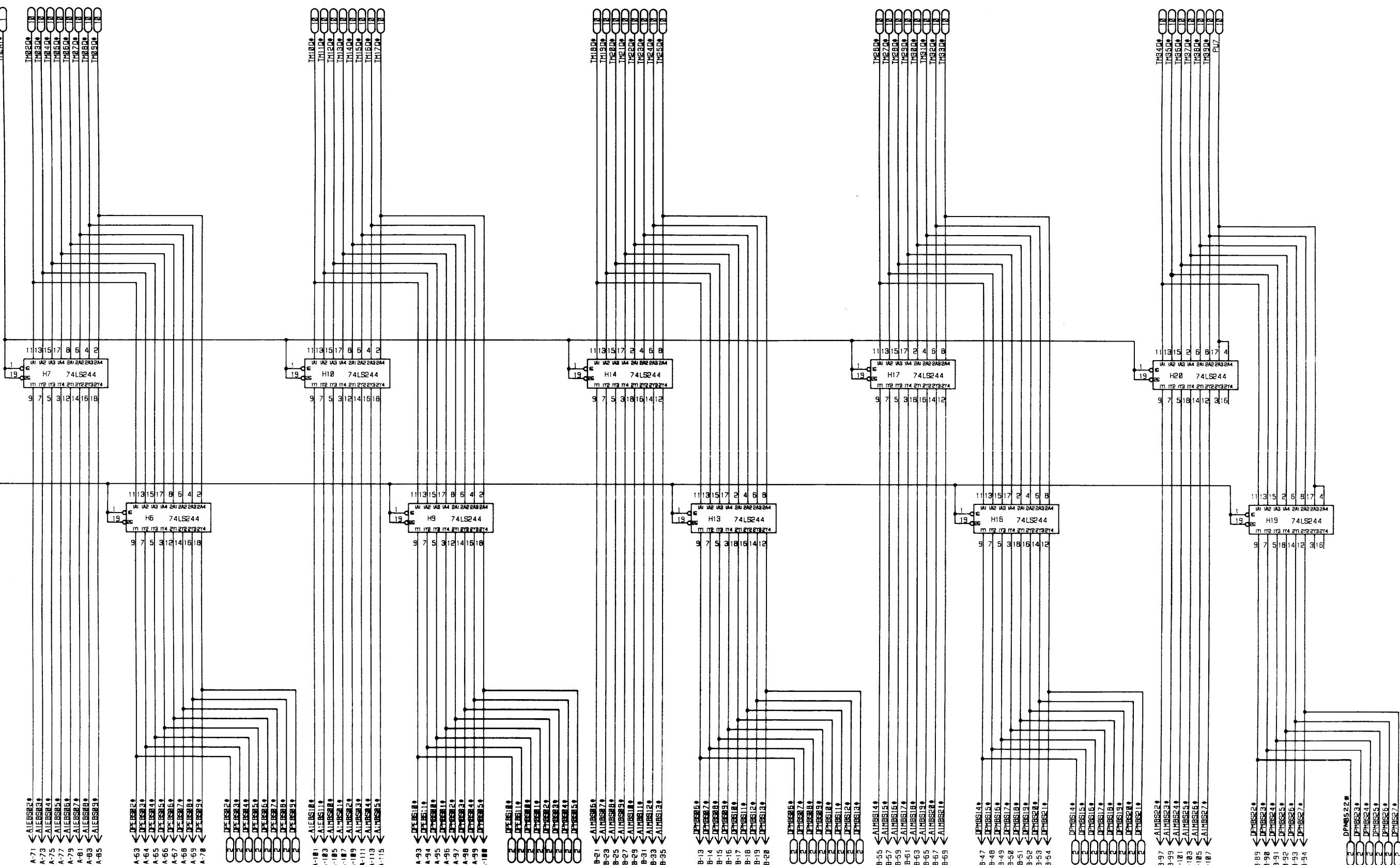
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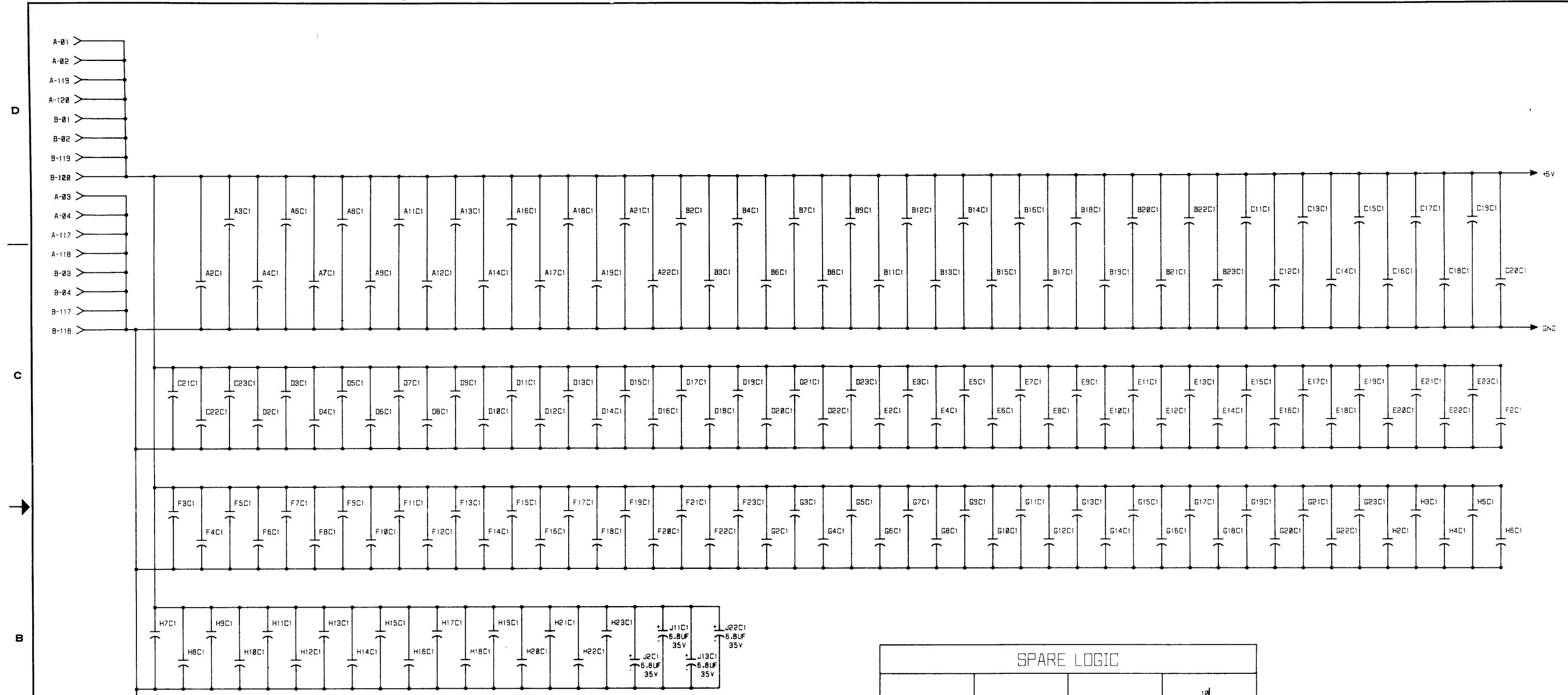
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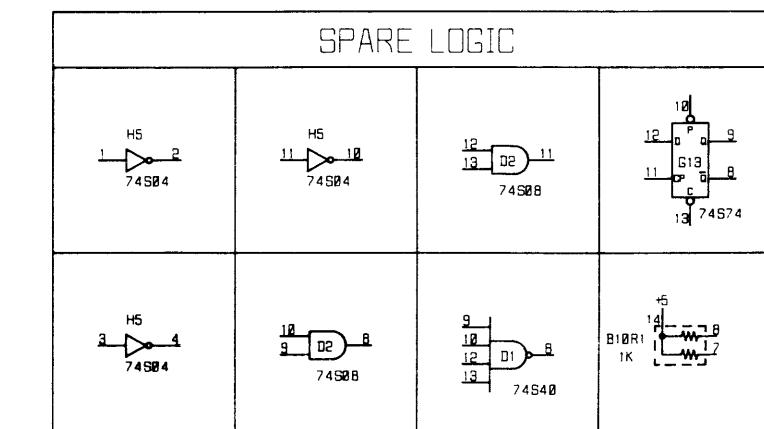


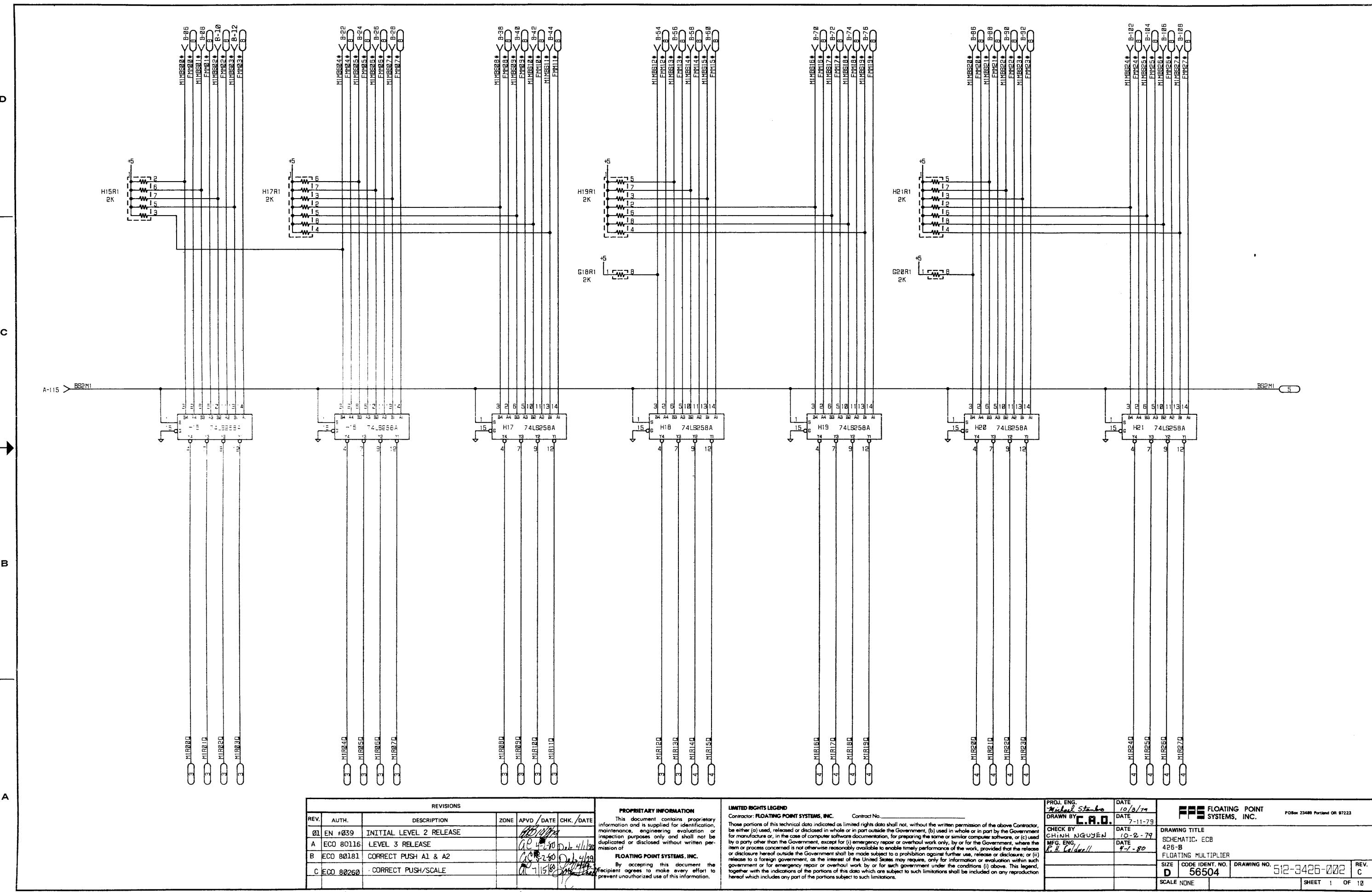
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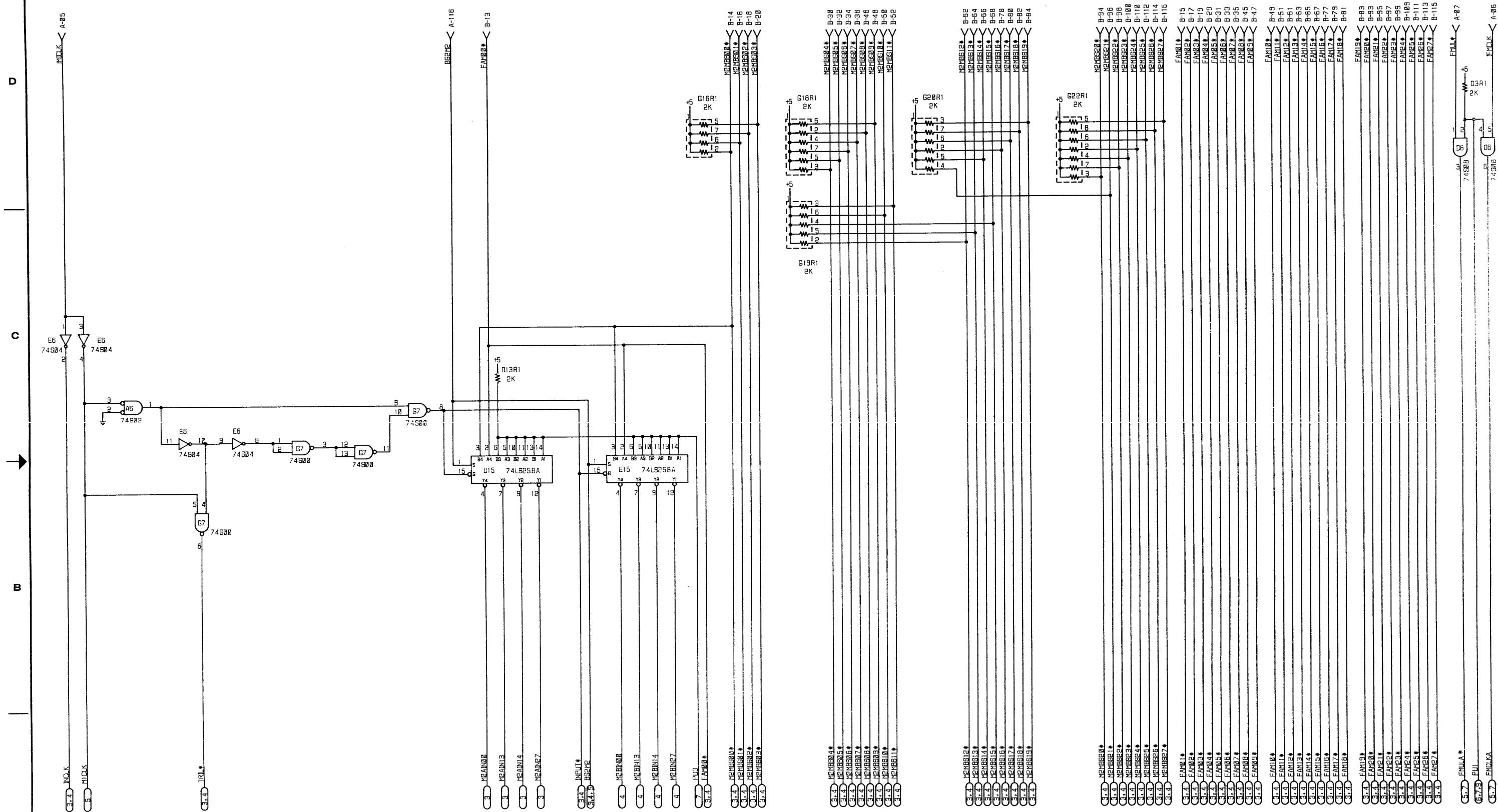


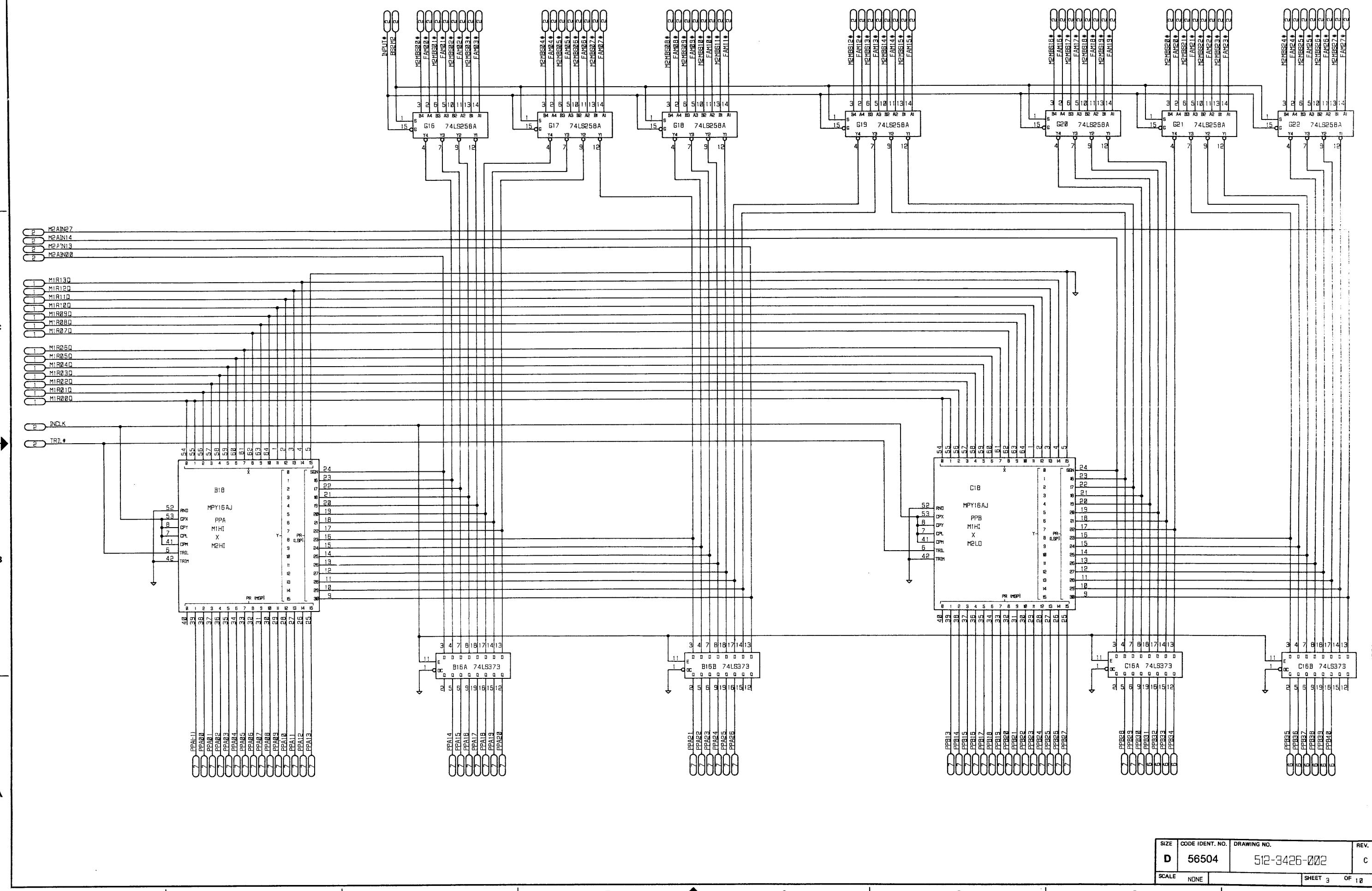
NOTES

1. UNLESS OTHERWISE SPECIFIED ALL CAPACITORS ARE $0.1\mu F$. 35 VOLTS









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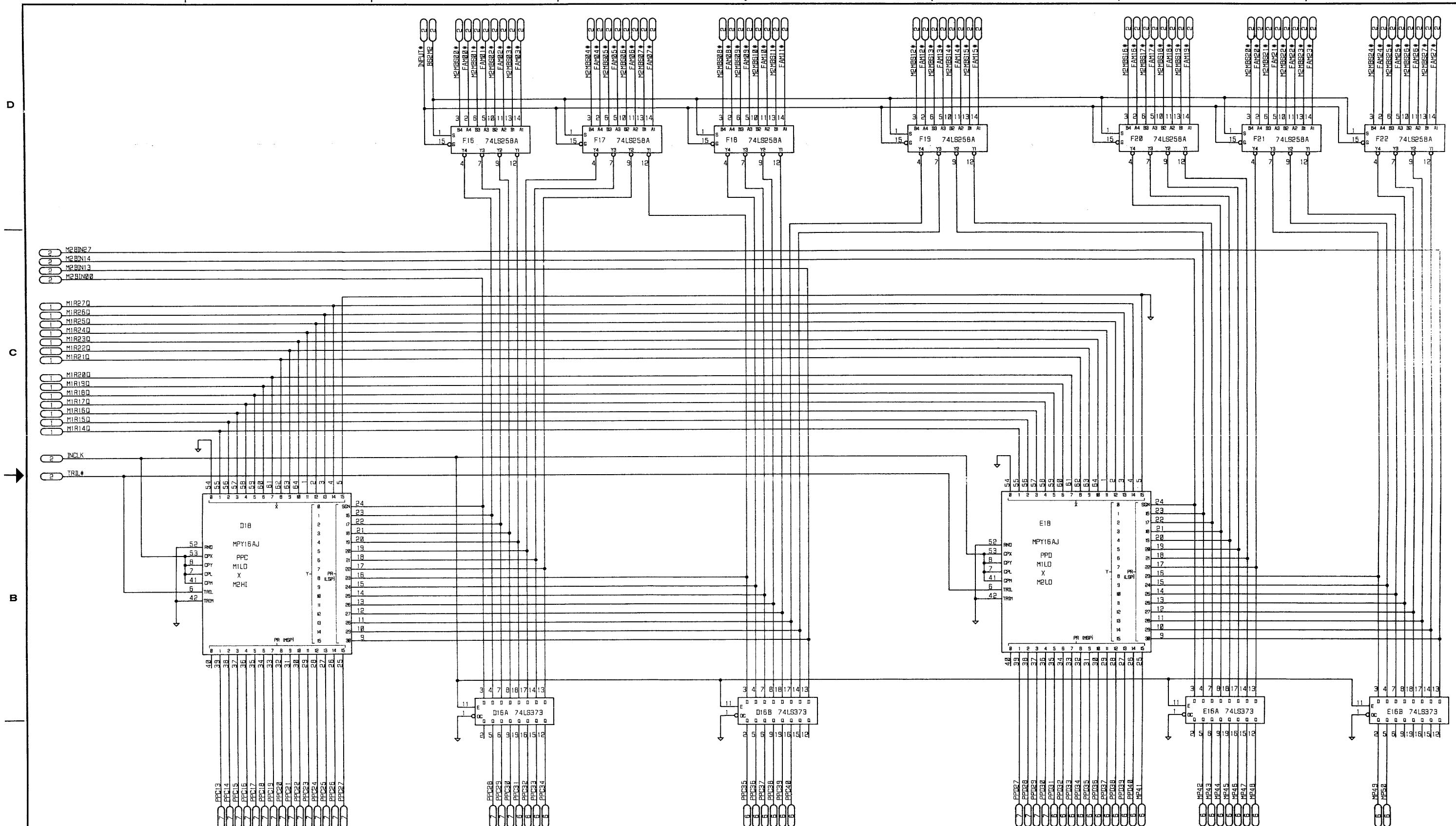
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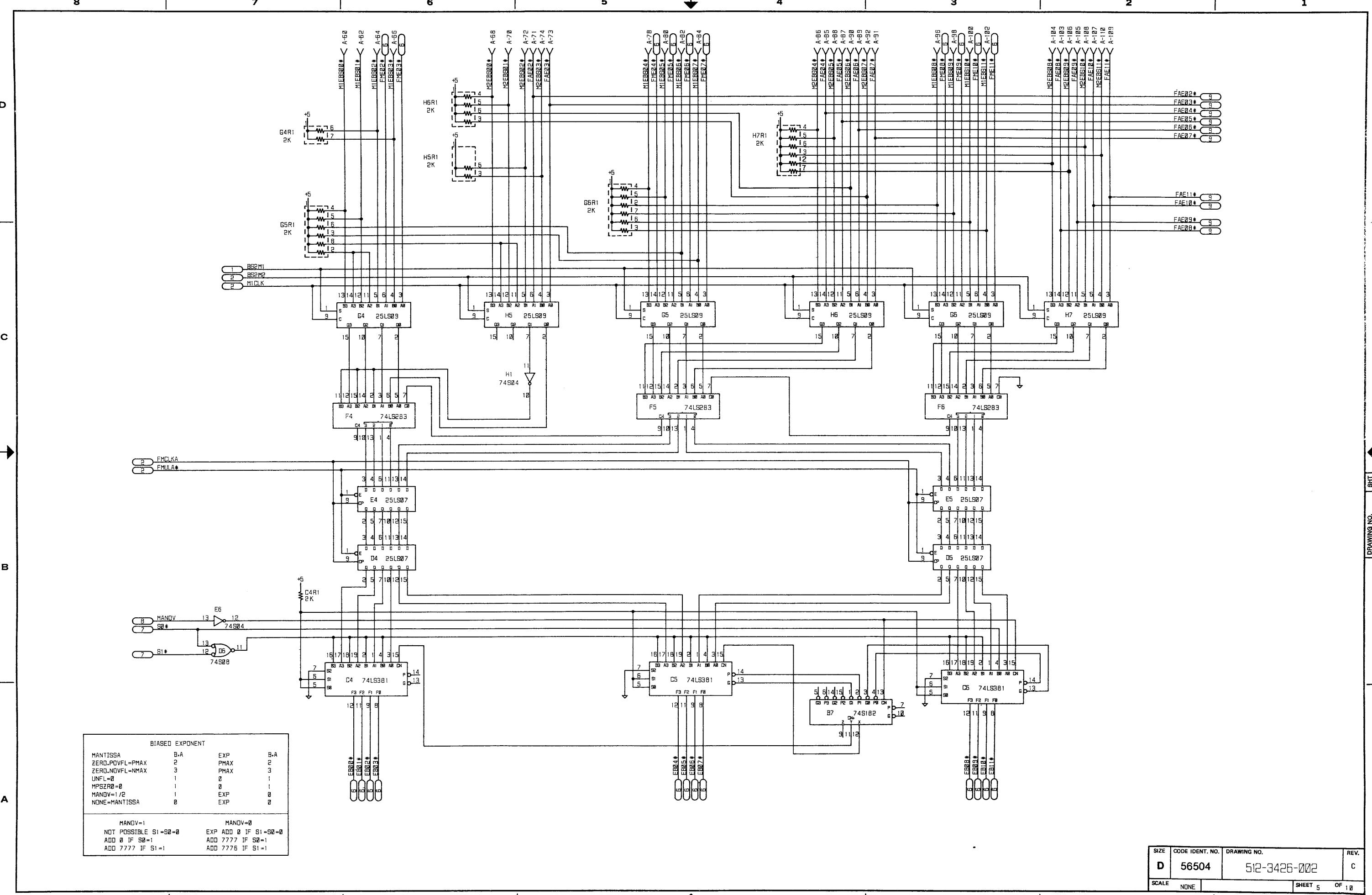
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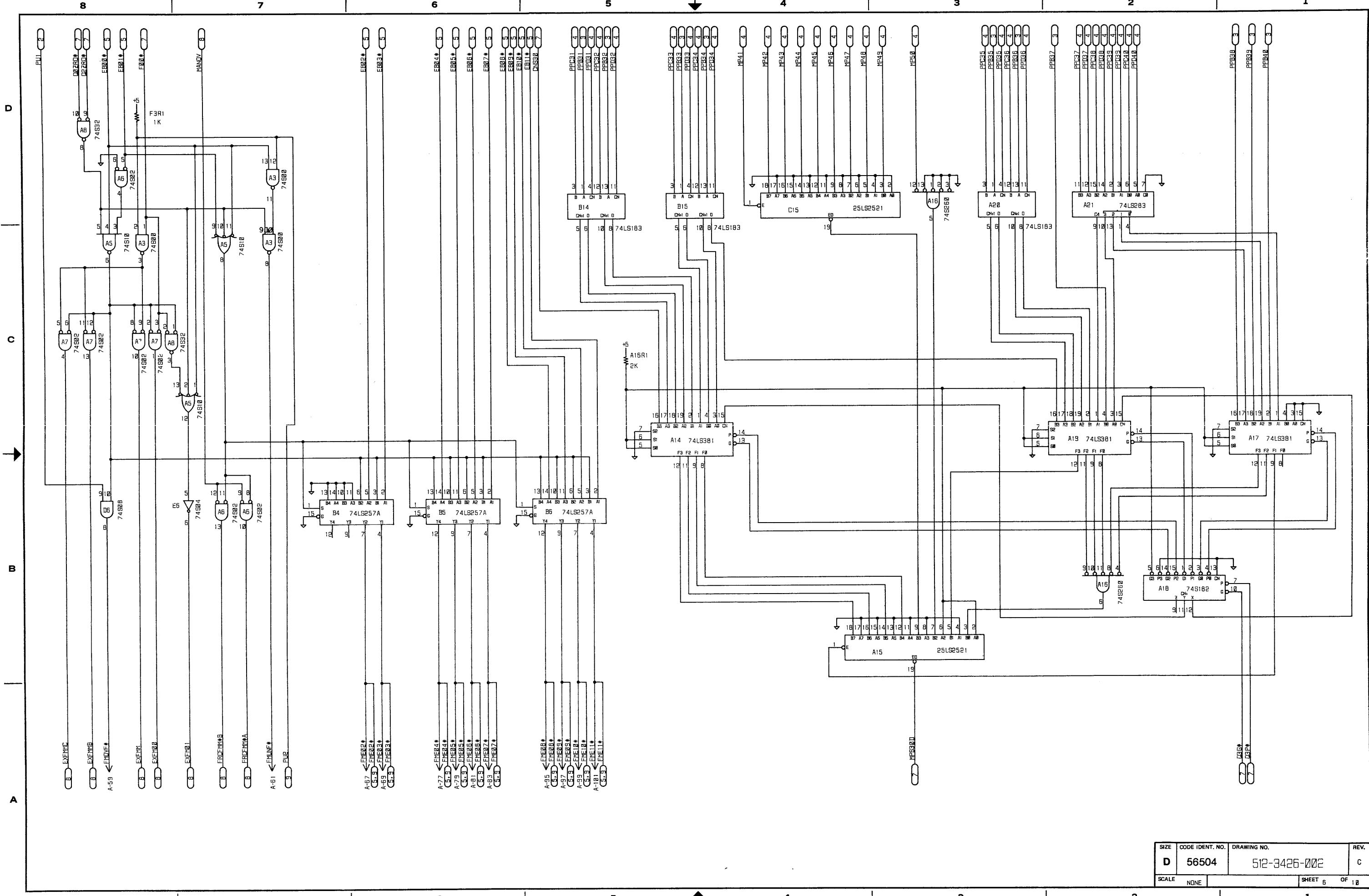
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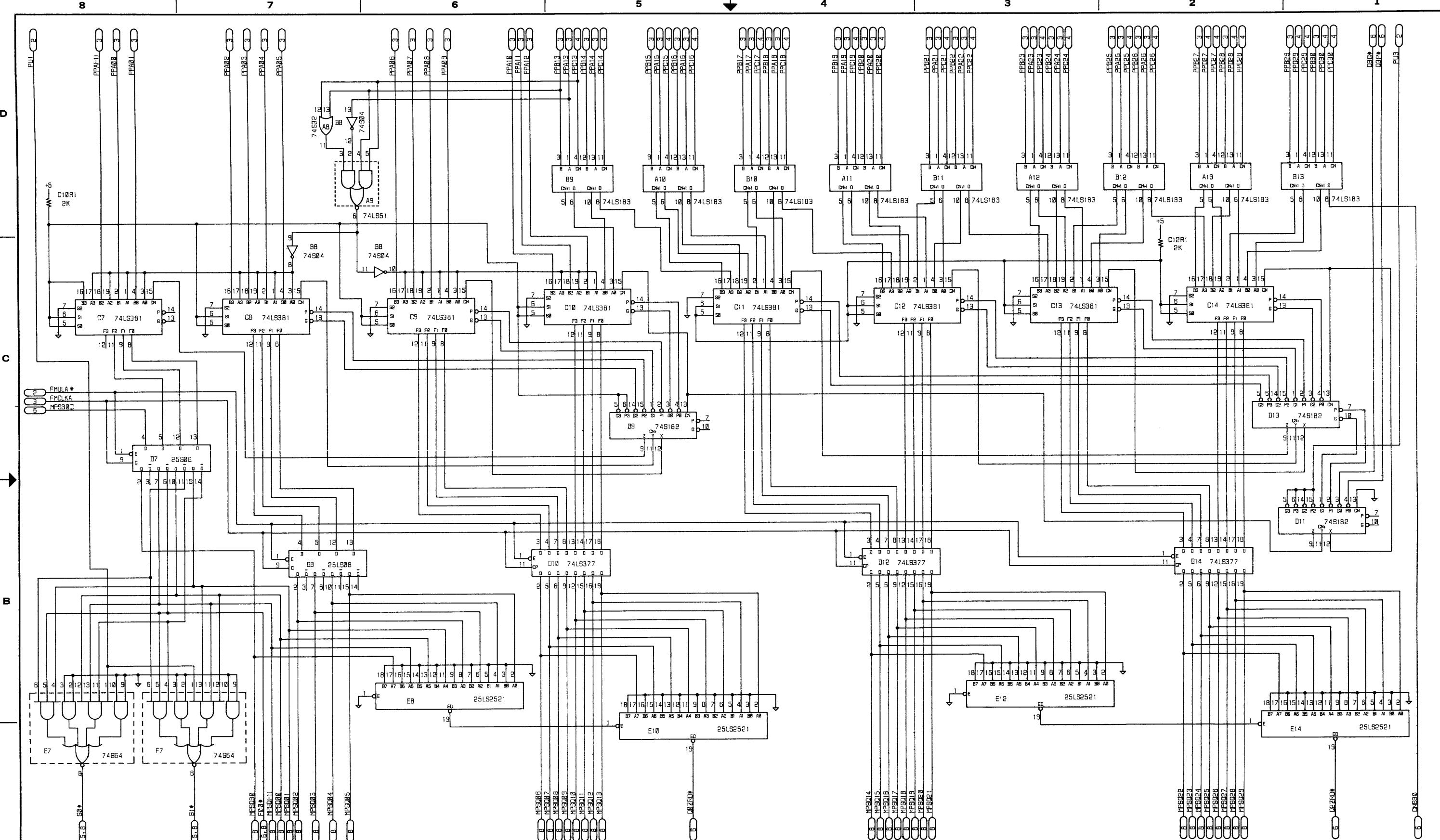
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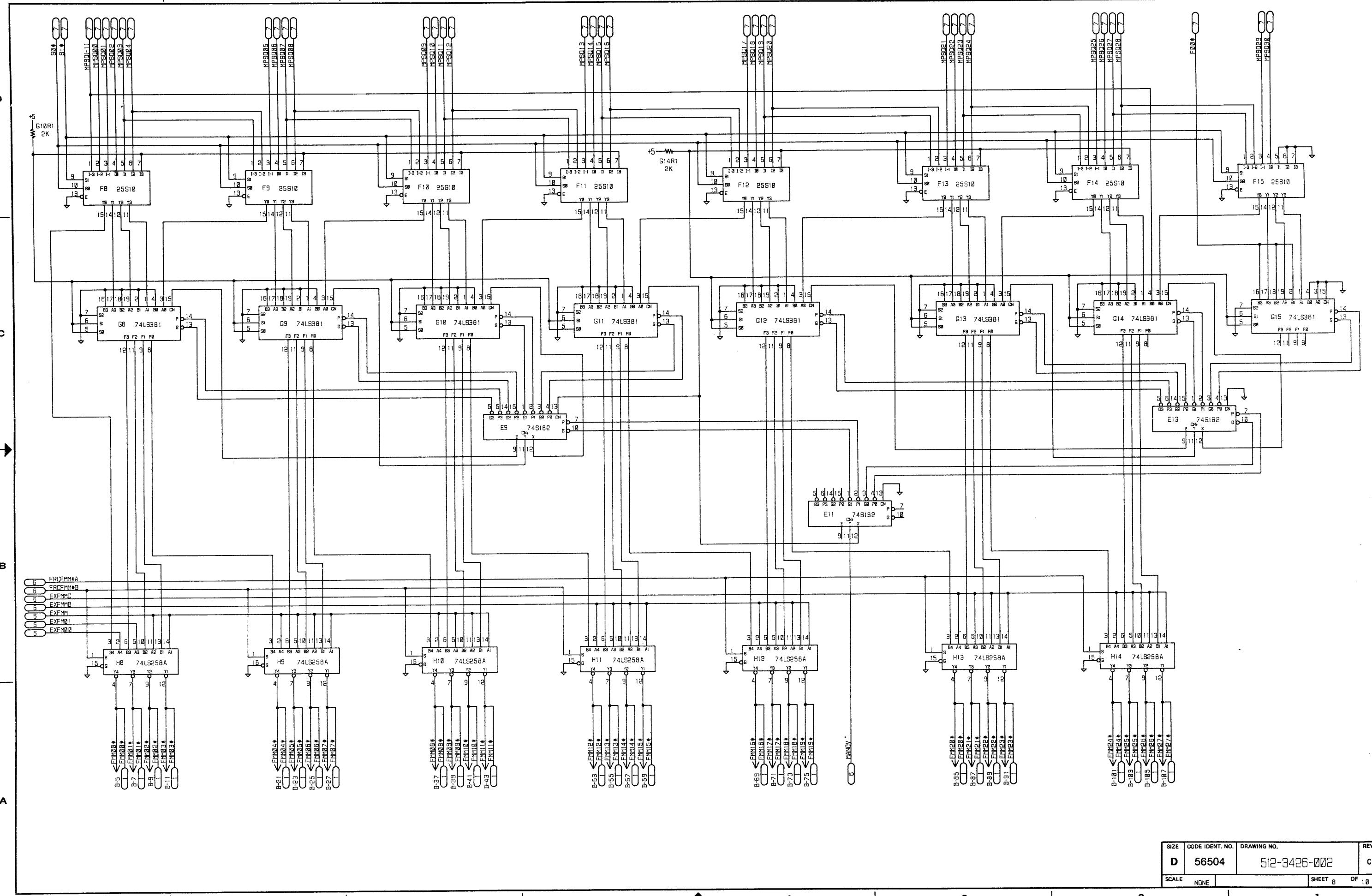
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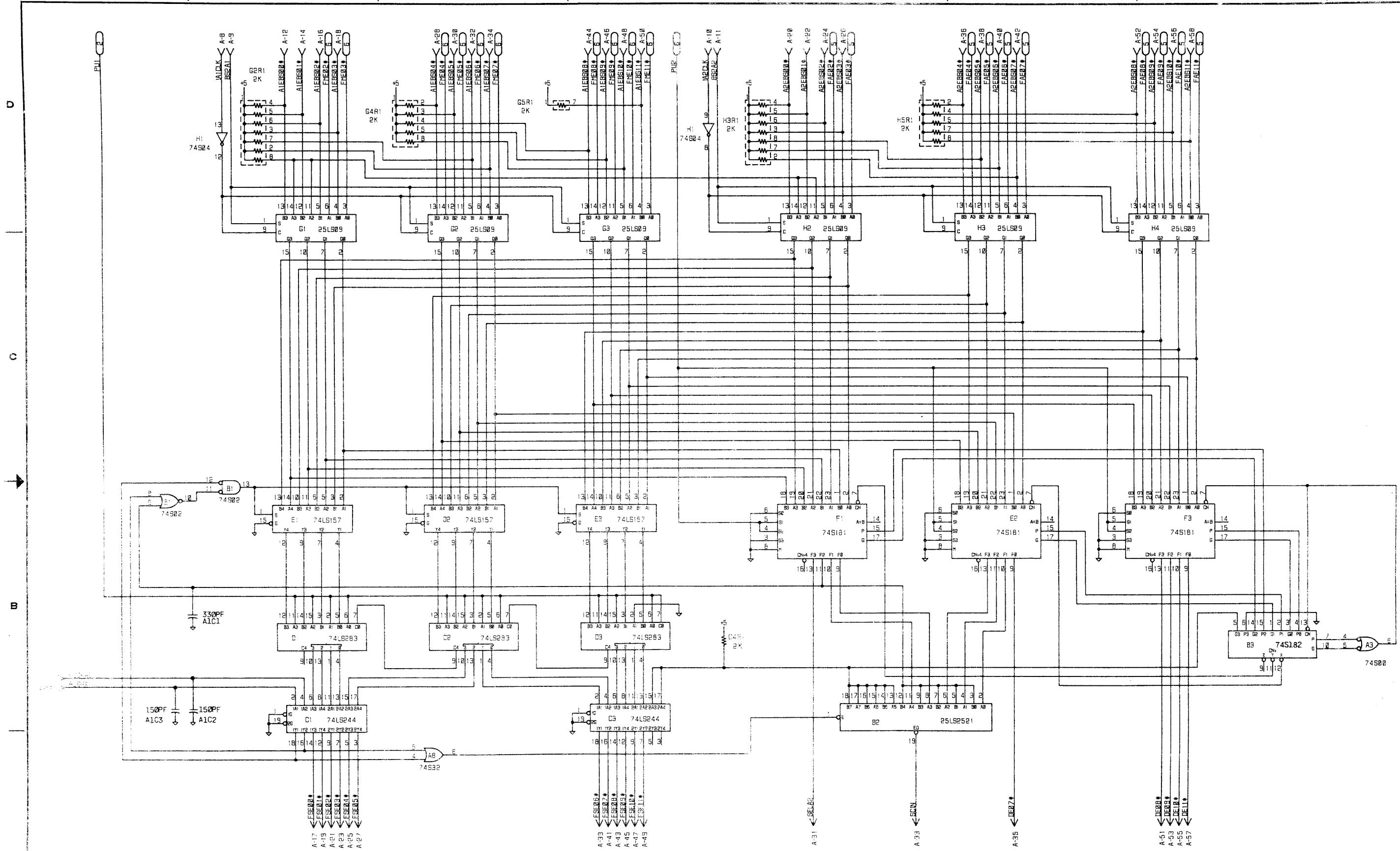




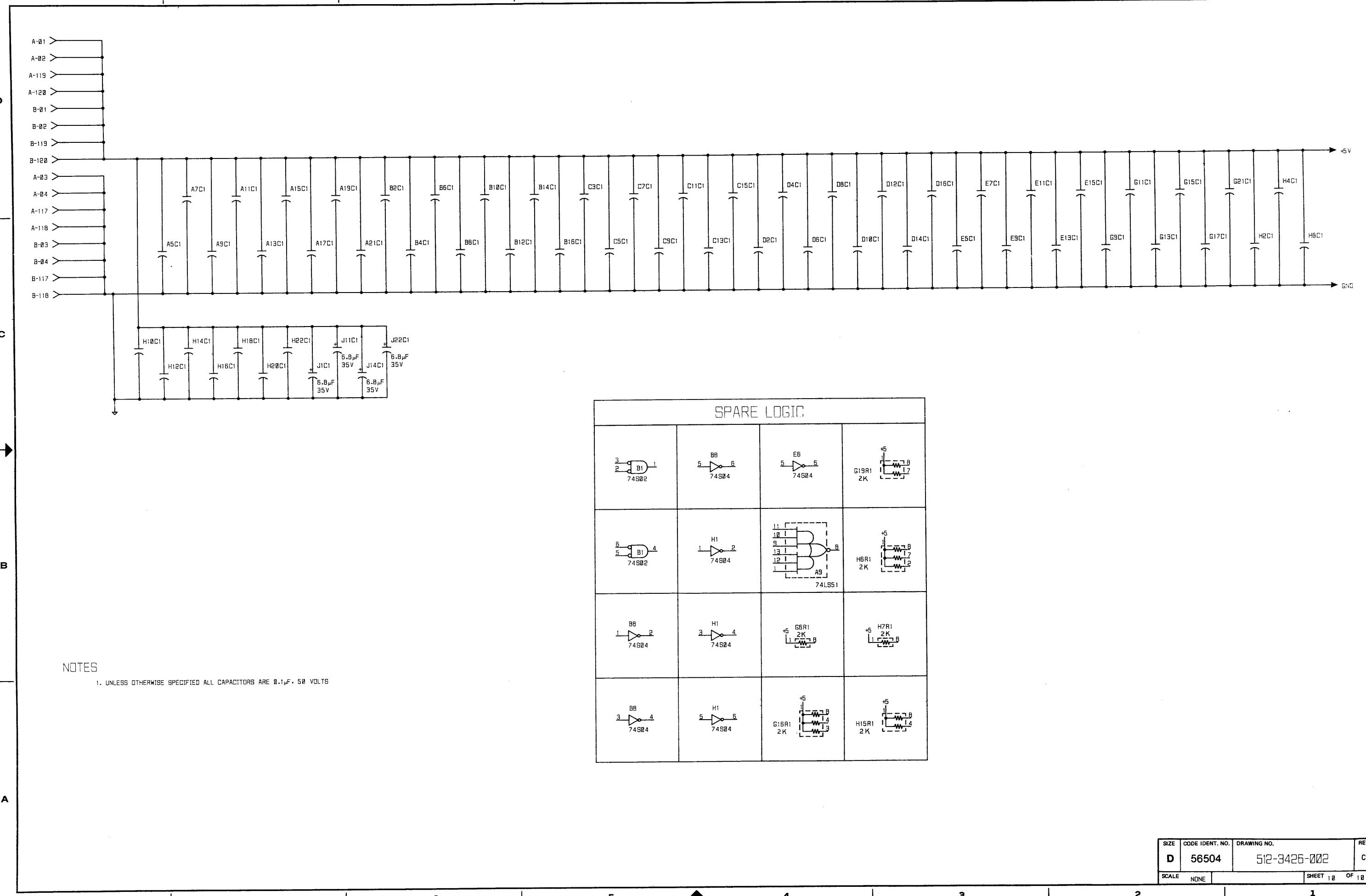


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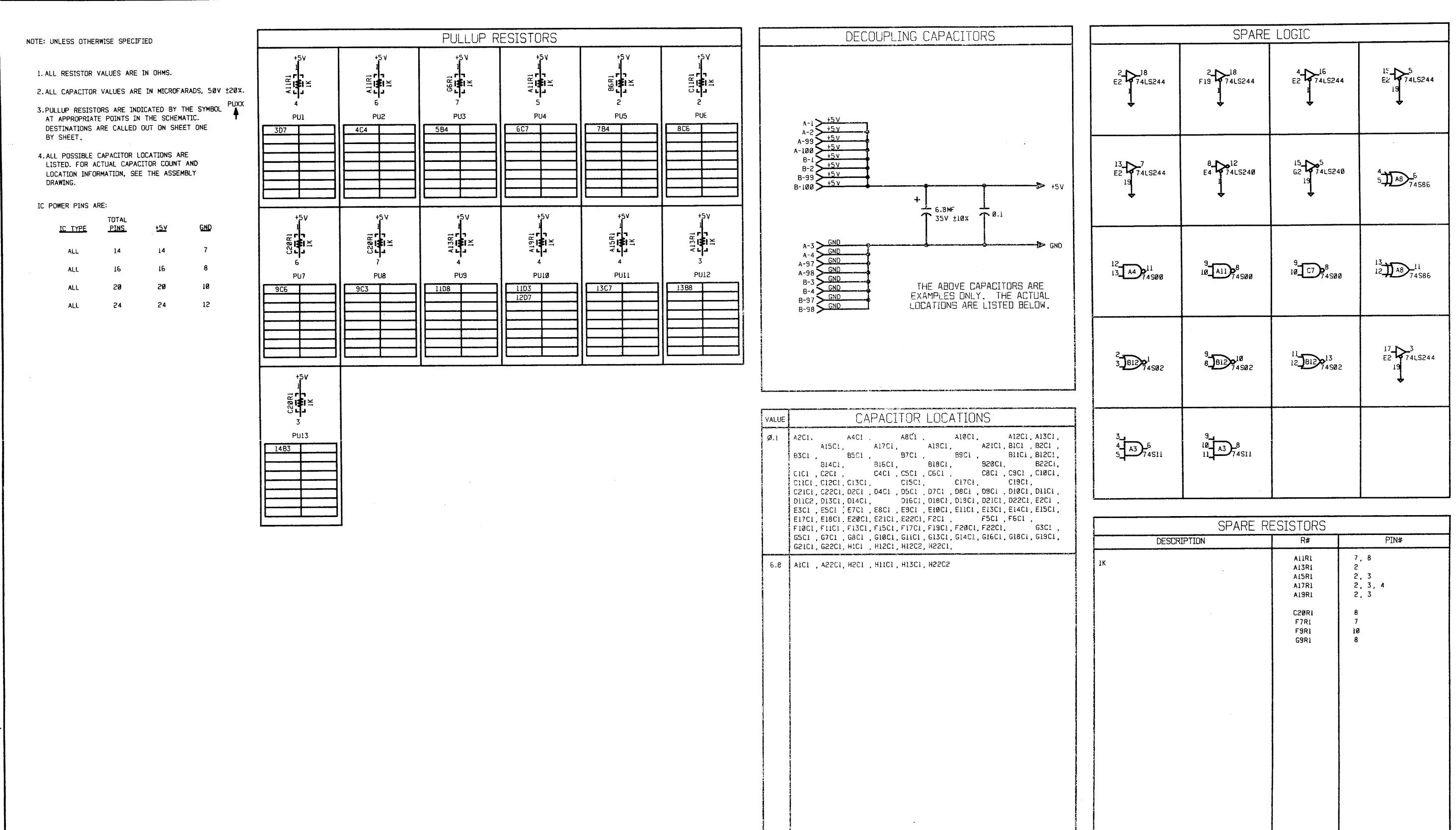




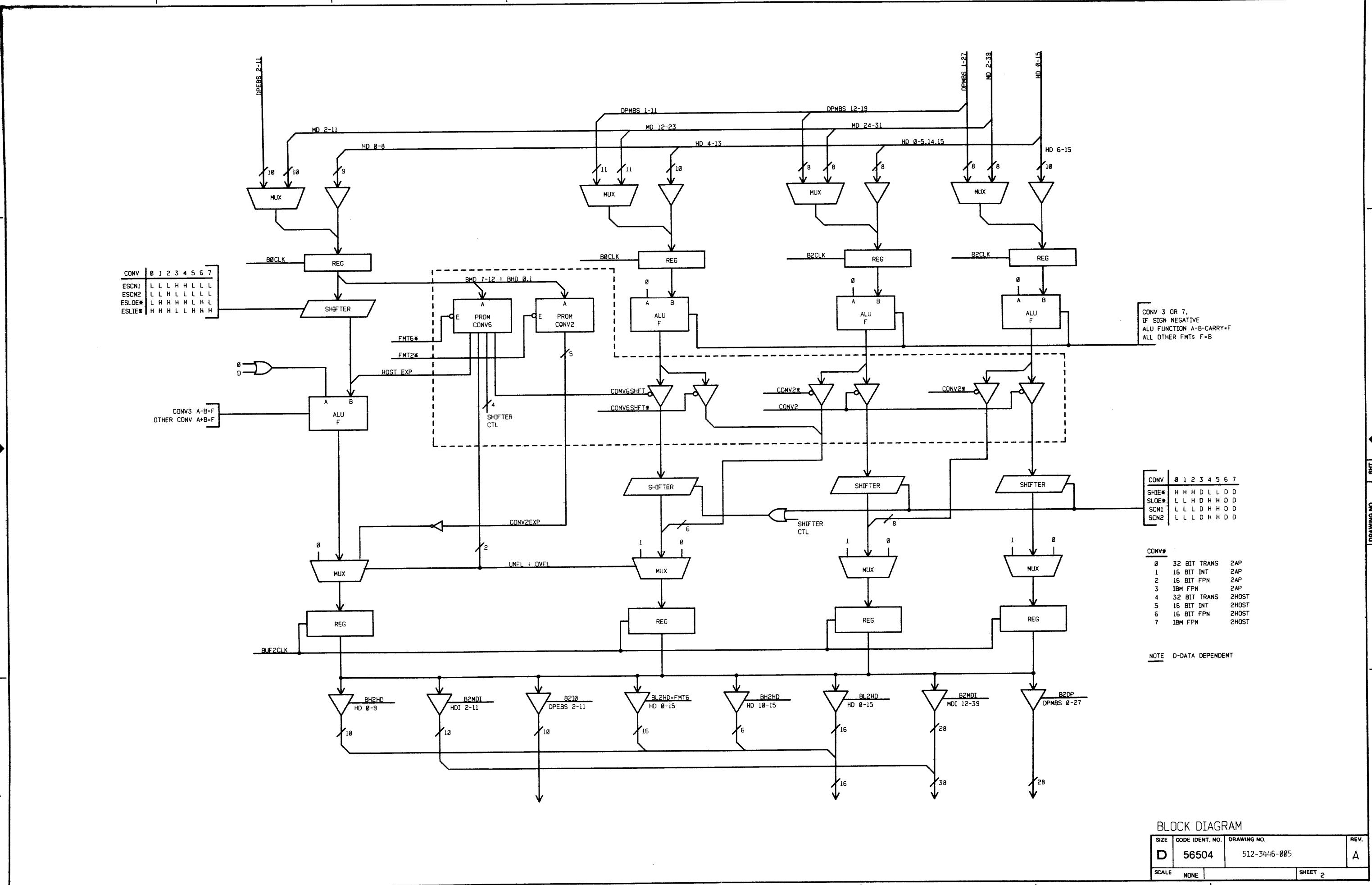
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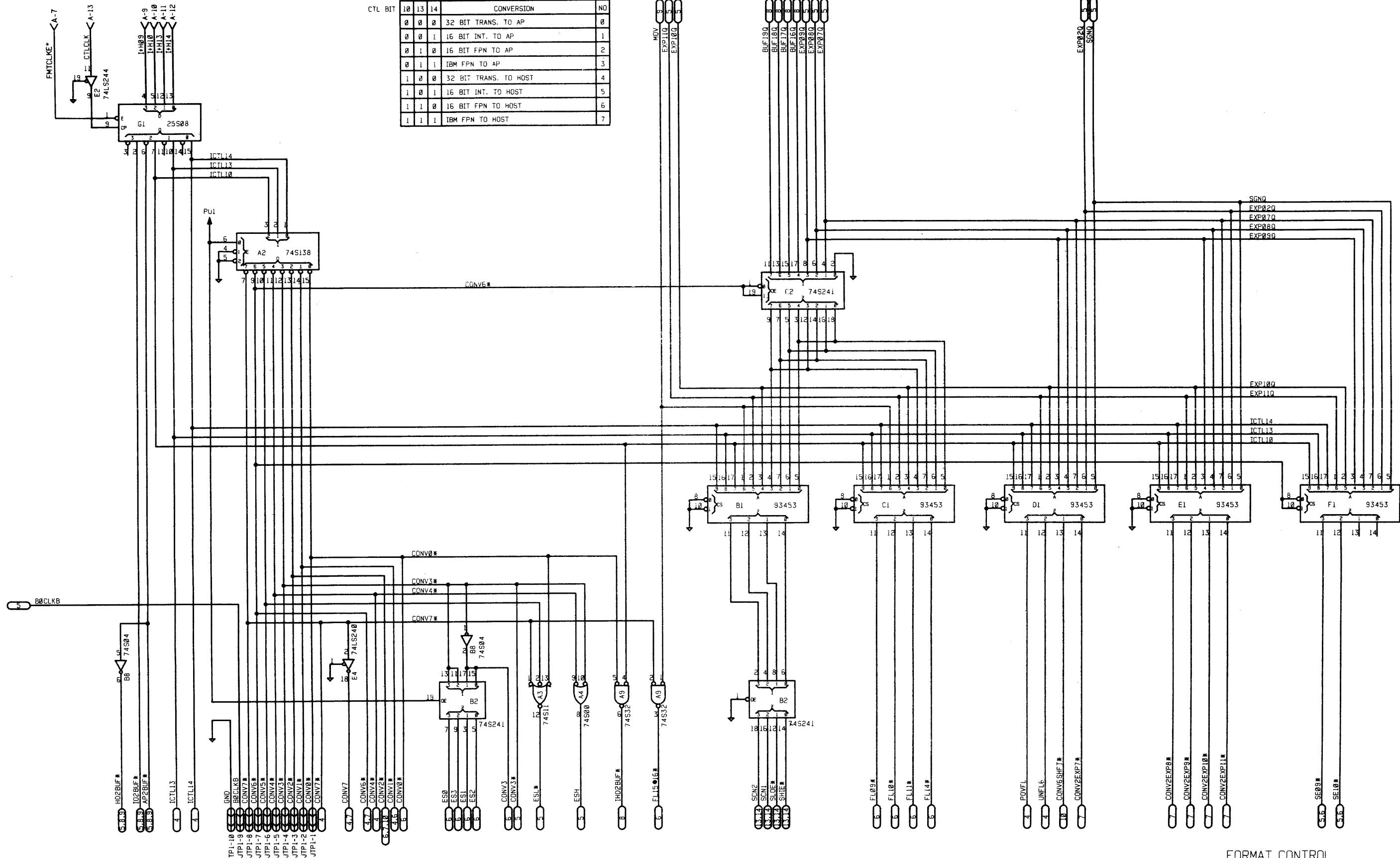


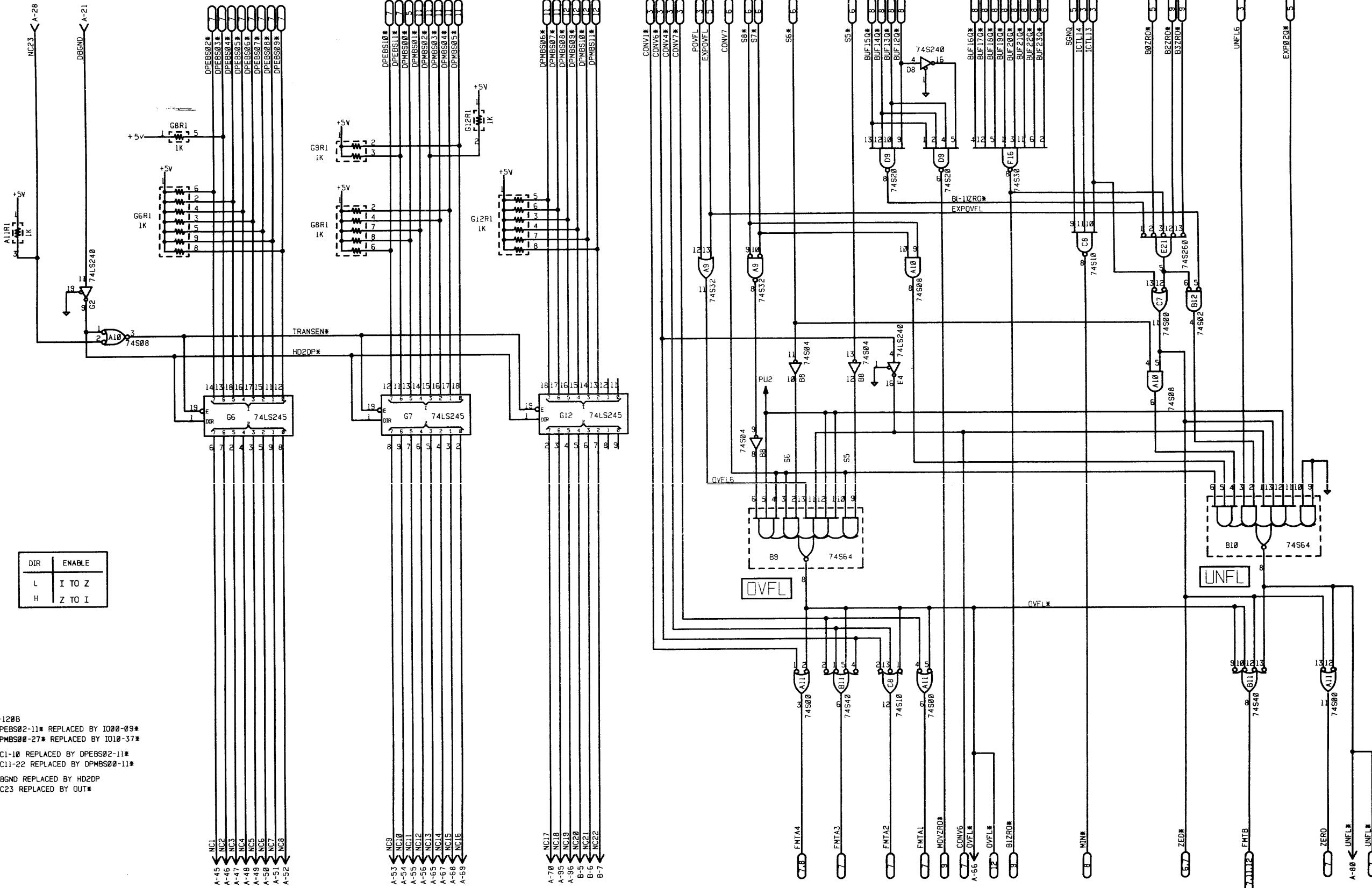
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01	ECO 82605	LEVEL 2 RELEASE	7	2/24/83	A	ECO 83013	LEVEL 3 RELEASE	6	2/24/83		By accepting this document, the recipient agrees to make every effort to prevent unauthorized use of this information.	Those portions of this technical data indicated as limited rights data shall not, without the written permission of the above Contractor, be either (a) used, released or disclosed in whole or in part outside the Government, (b) used in whole or in part by the Government for manufacture or, in the case of computer software documentation, for preparing the same or similar computer software, or (c) used by a party other than the Government, except for (i) emergency repair or overhaul work only, by or for the Government, where the item or product concerned is not otherwise readily available to enable prompt delivery, provided that the results or directions herein outlined by the Government shall not lead directly or indirectly to a prohibited end use, production or disclosure, or (ii) release to a foreign government or the interest of the United States may require, only for information or evaluation within such government or for emergency repair or overhaul work by or for such government under the conditions (i) above. This legend, together with the indications of the portions of this data which are subject to such limitations shall be included on any reproduction hereof which includes any part of the portions subject to such limitations.	CHECK BY <i>Steve Cole</i> DATE <i>2/15/83</i>	MFG. ENG. <i>Steve Cole</i> DATE <i>2/24/83</i>	446 FORMATTER, CI, RDCP	SIZE <i>D</i> CODE IDENT. NO. <i>56504</i> DRAWING NO. <i>512-3446-005</i> REV. <i>A</i>		
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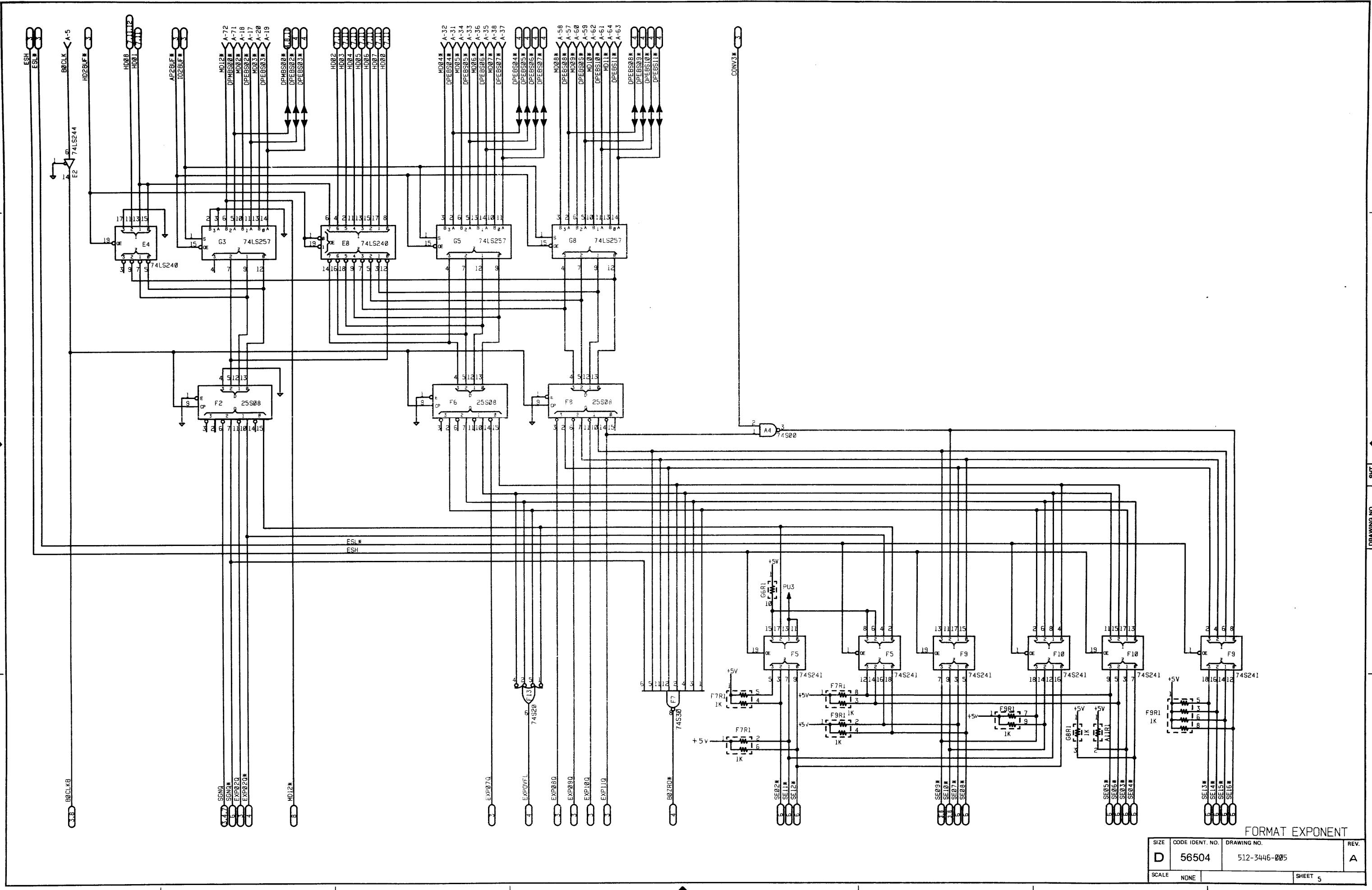




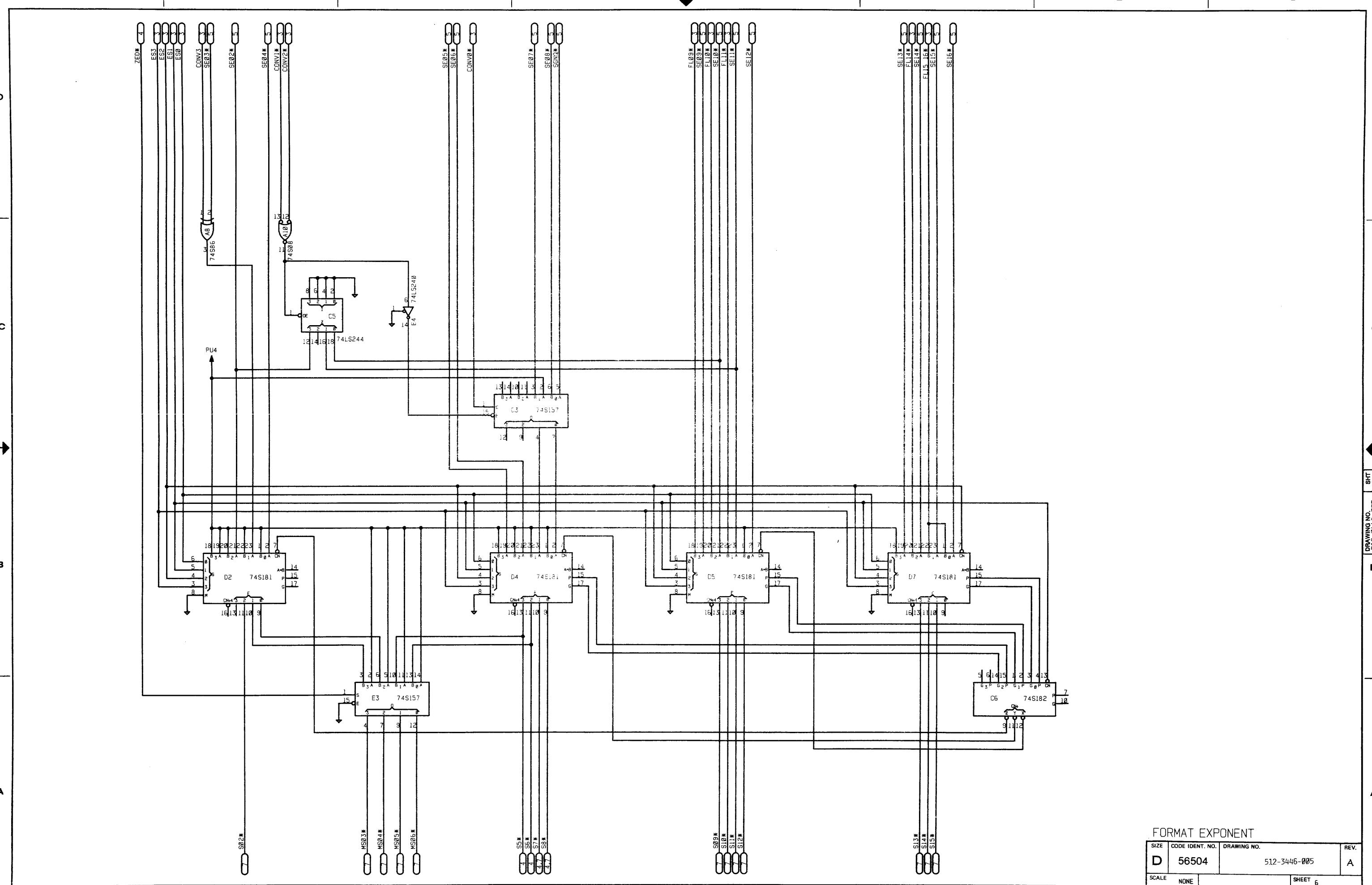


IO / DP TRANSCEIVER

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SCALE	NONE	SHEET 4	

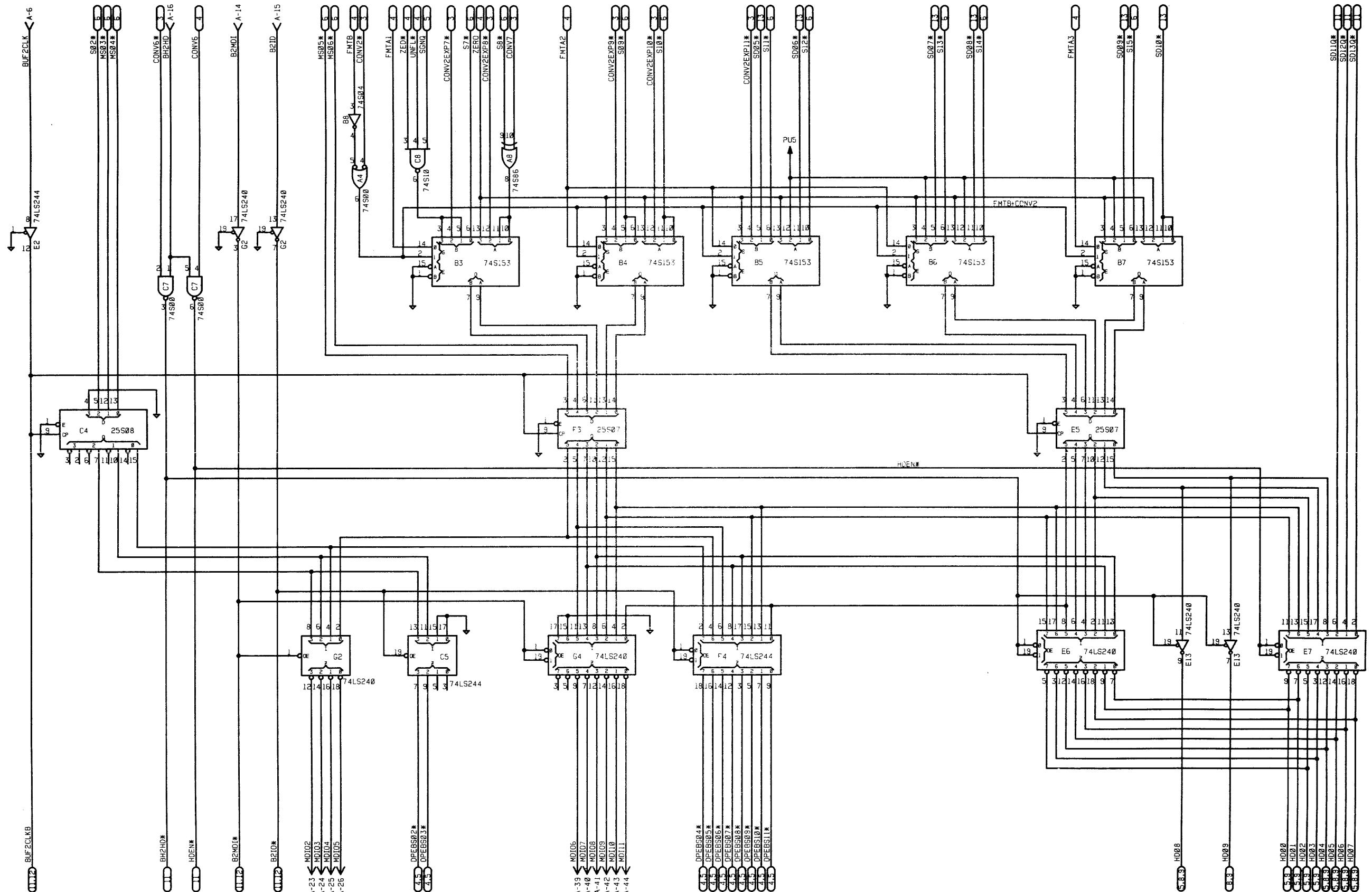


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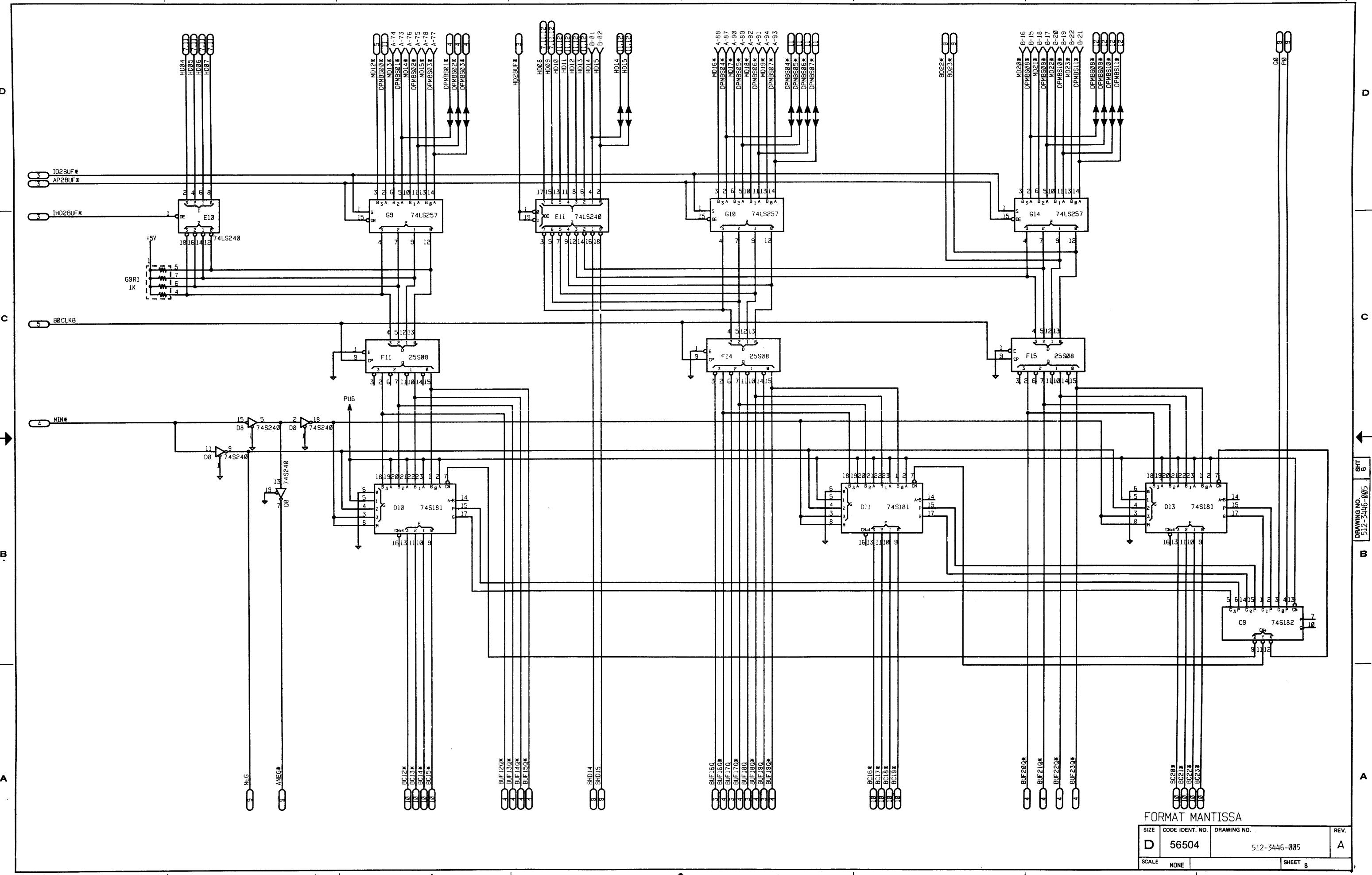
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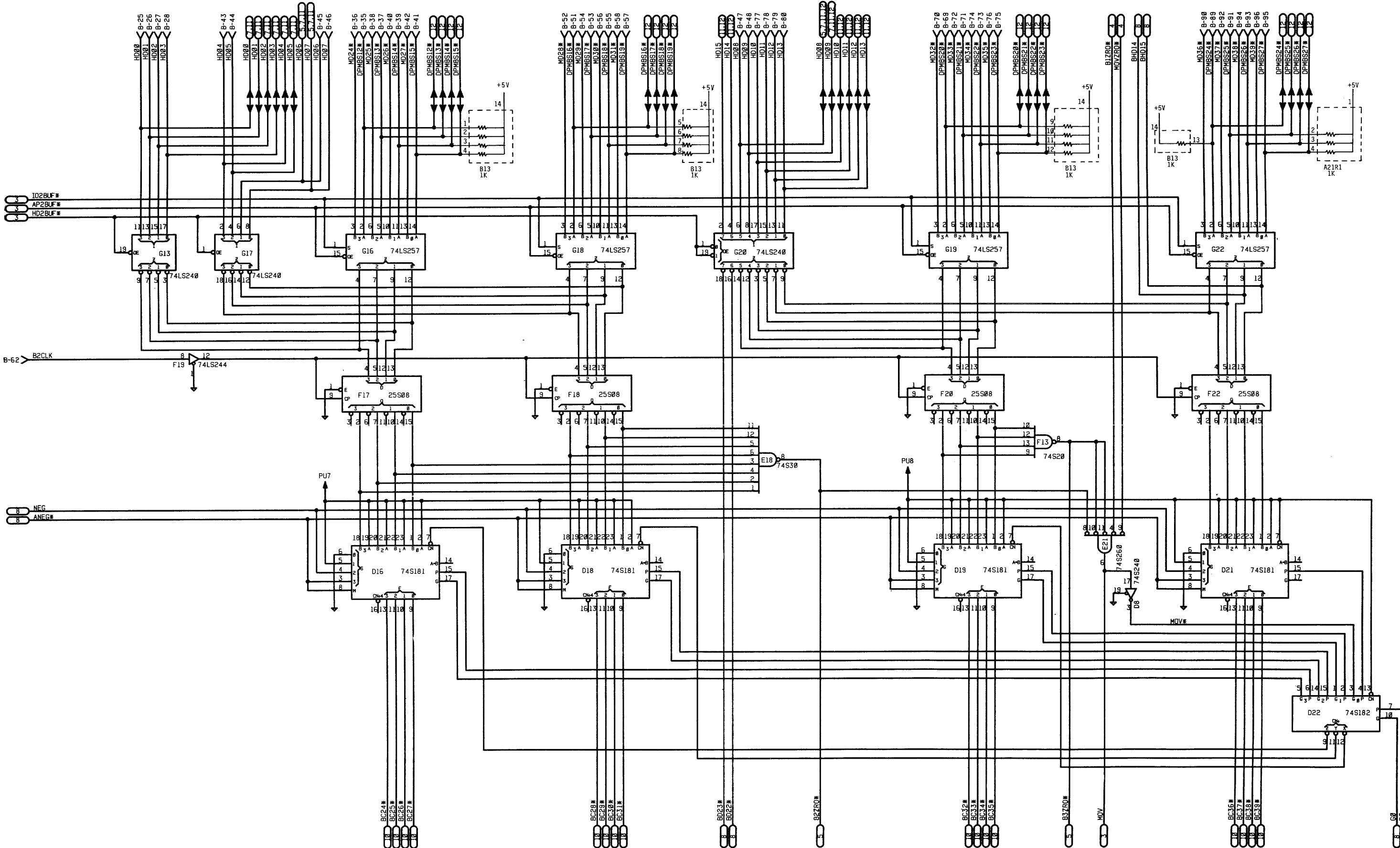
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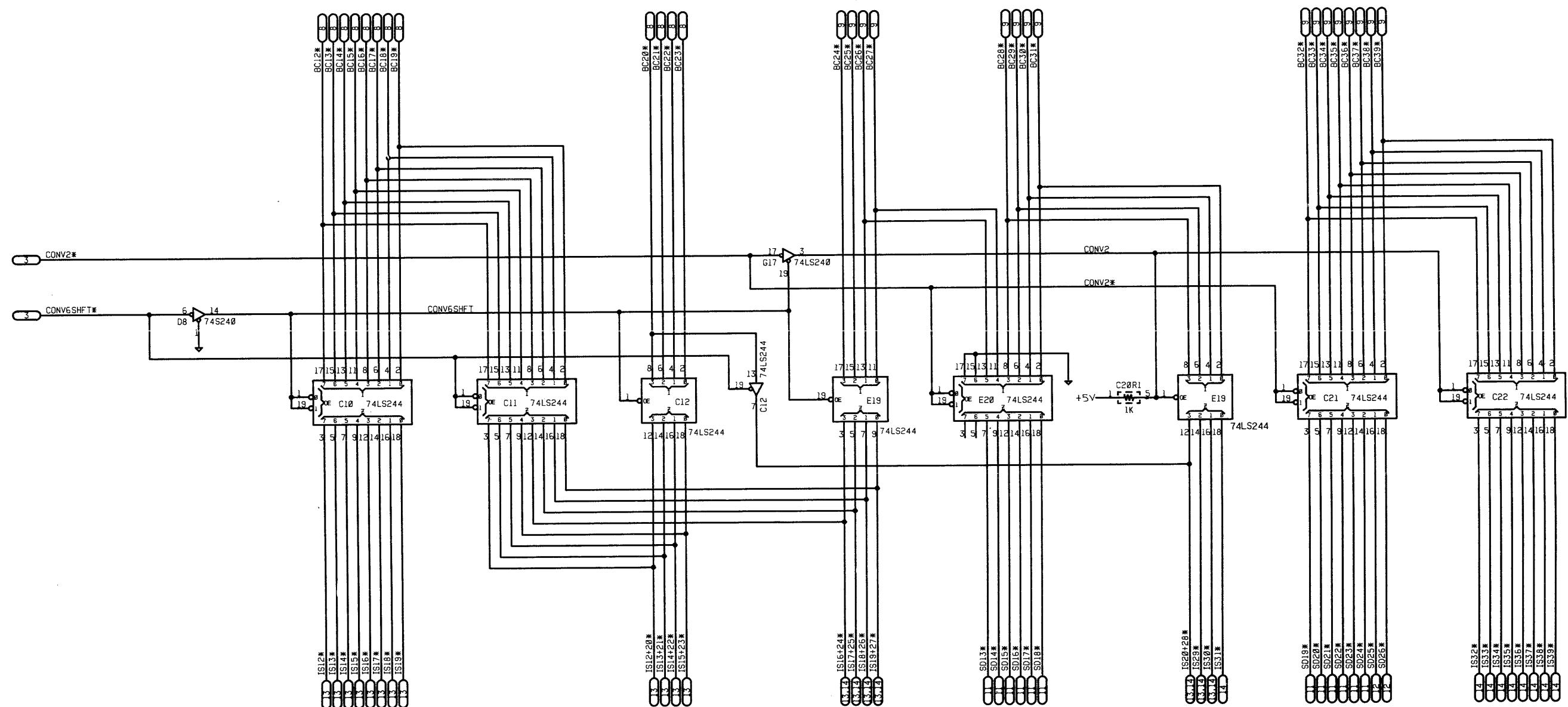
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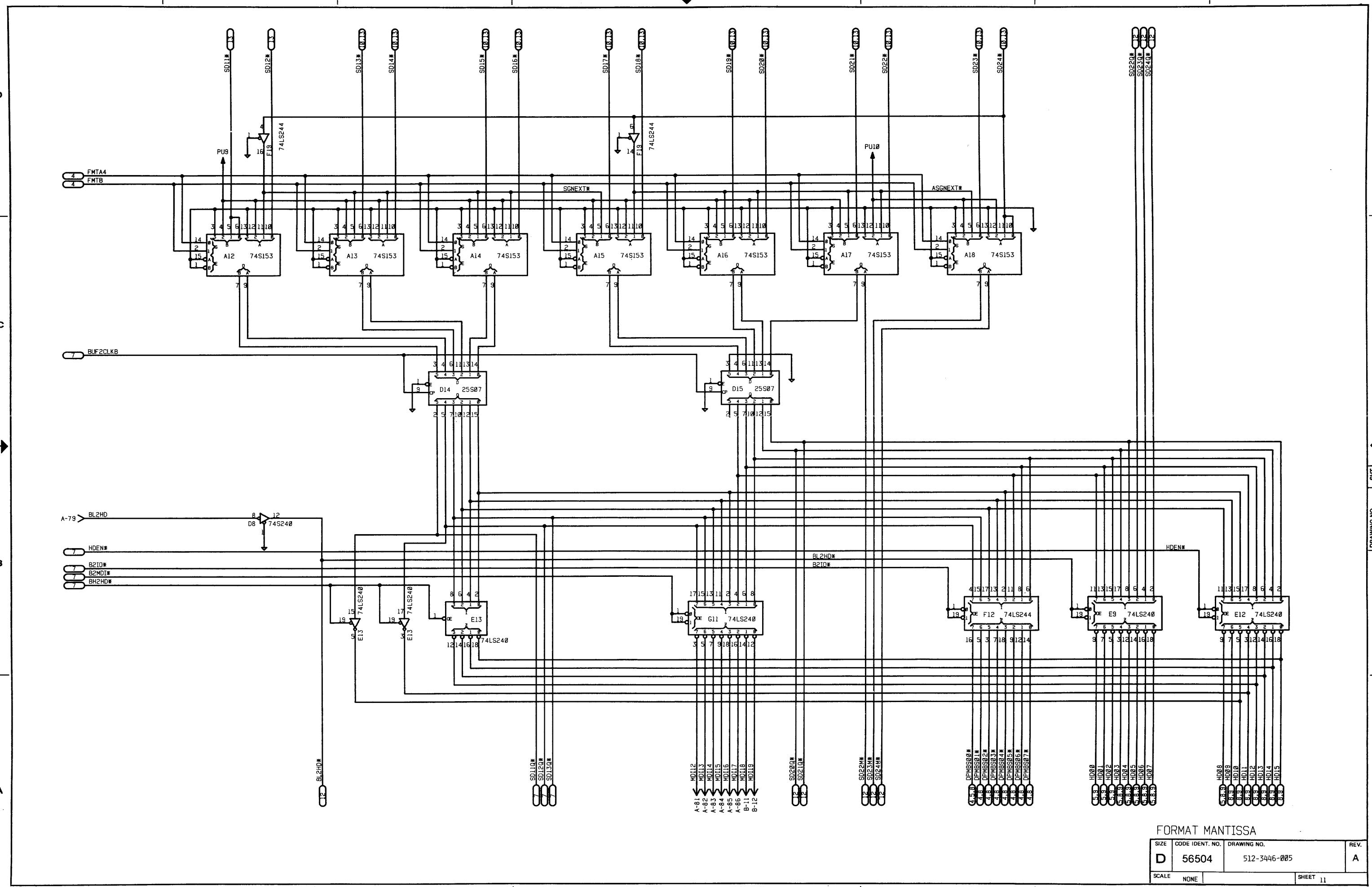
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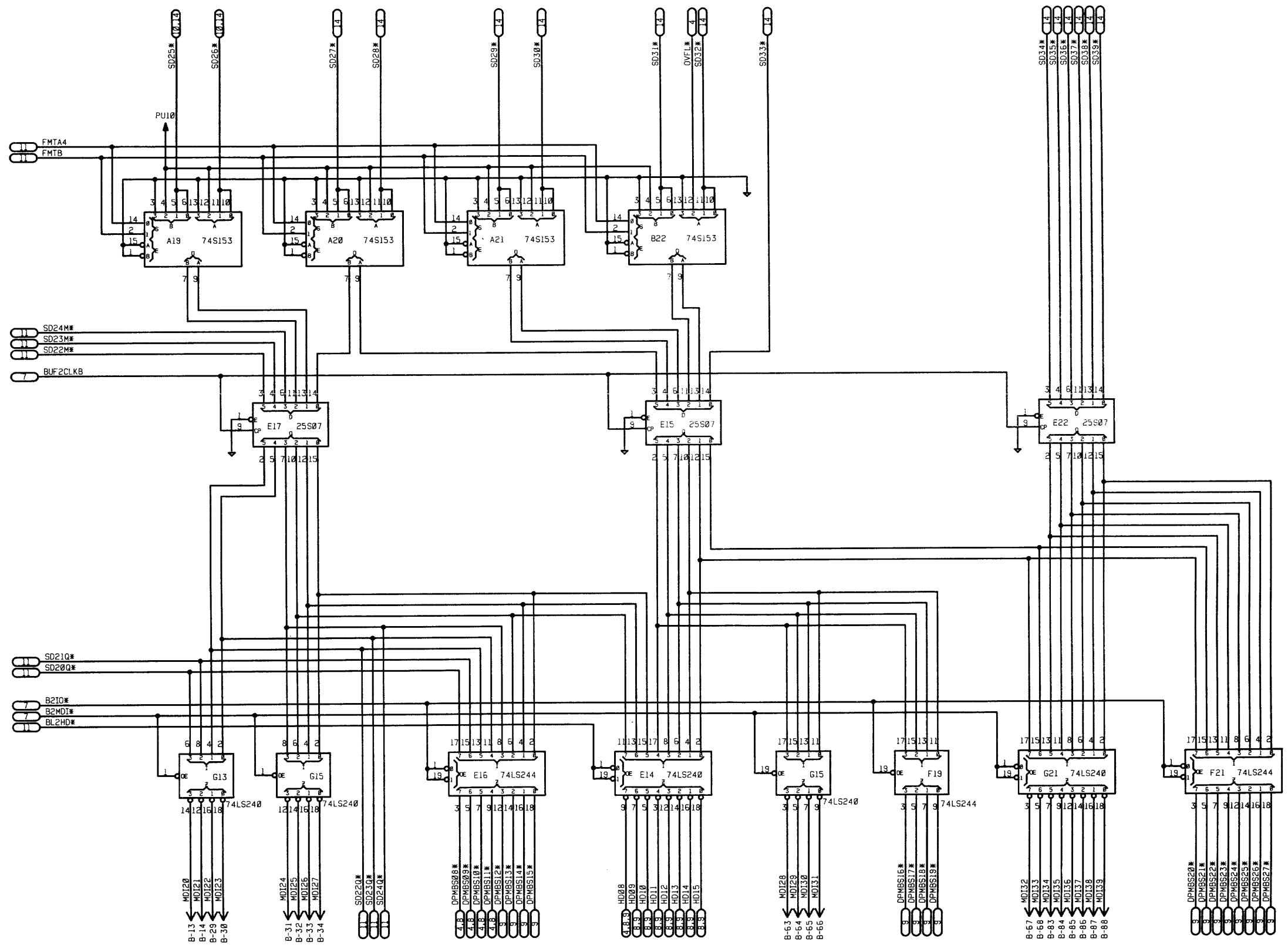
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D	56504	512-3446-005	A
SCALE	NONE	SHEET 10	



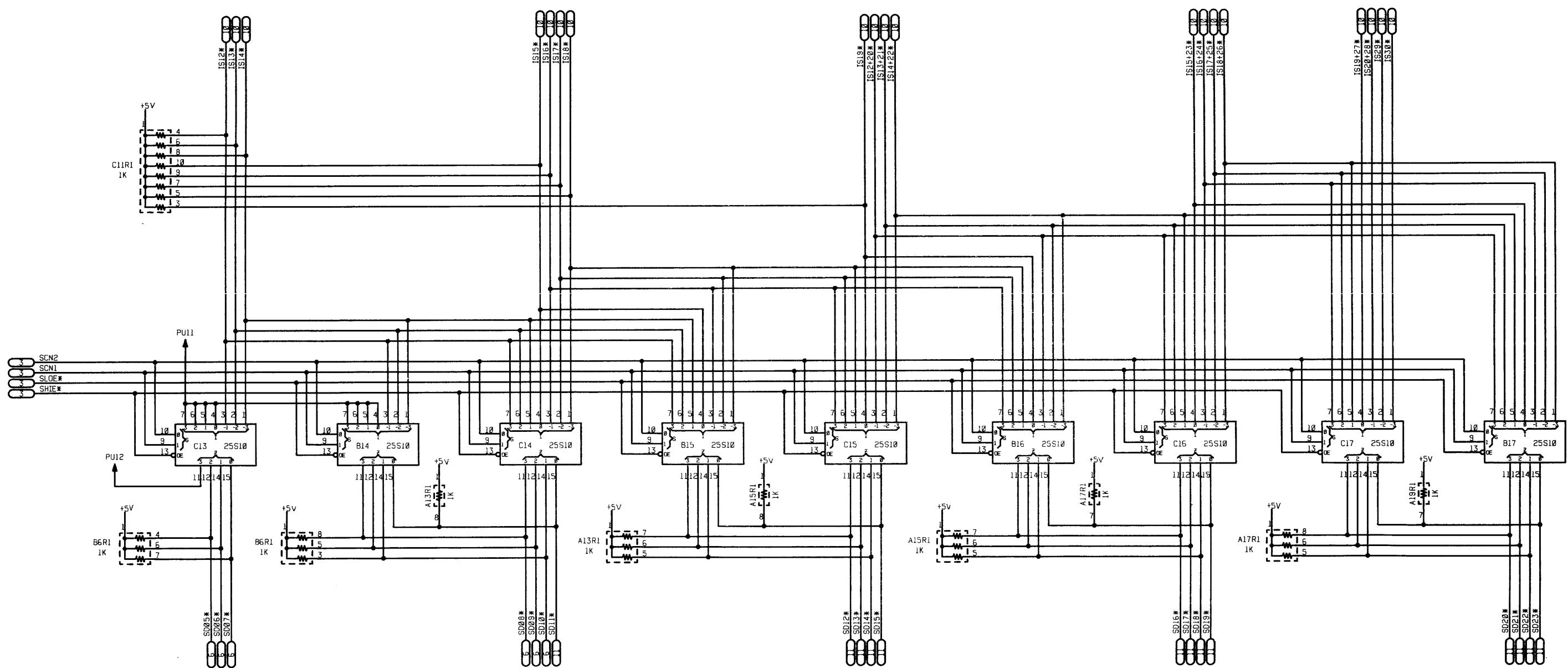
FORMAT MANTISSA

SIZE D	CODE IDENT. NO. 56504	DRAWING NO. 512-3446-005	REV. A
SCALE NONE		SHEET 11	



FORMAT MANTISSA

SIZE	CODE IDENT. NO.	DRAWING NO.	REV.
D	56504	512-3446-005	A
SCALE	NONE		SHEET 12



FORMAT MANTISSA

SIZE	CODE IDENT. NO.	DRAWING NO.	REV.
D	56504	512-3446-005	A
SCALE	NONE		SHEET 13

8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

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D

C

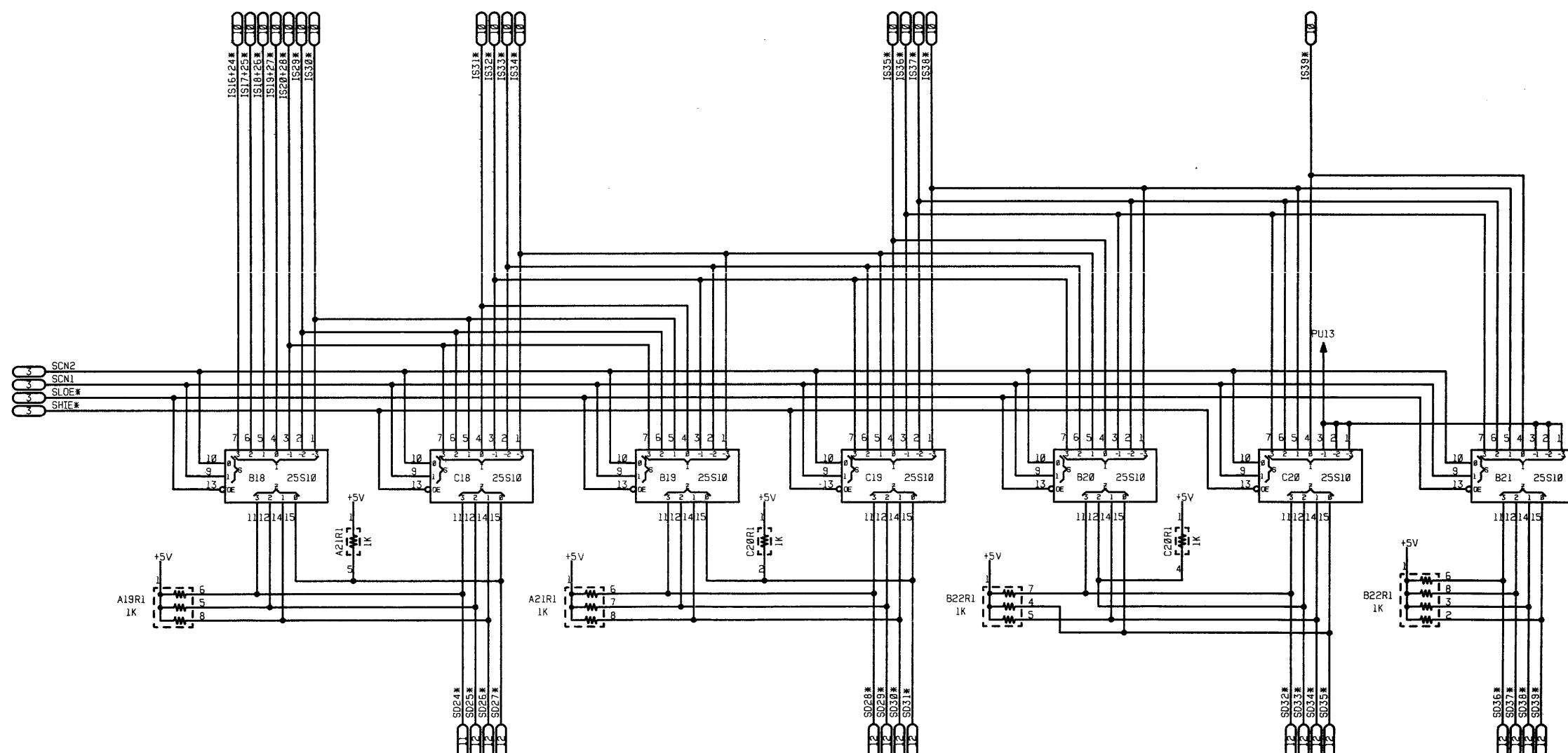
C

B

B

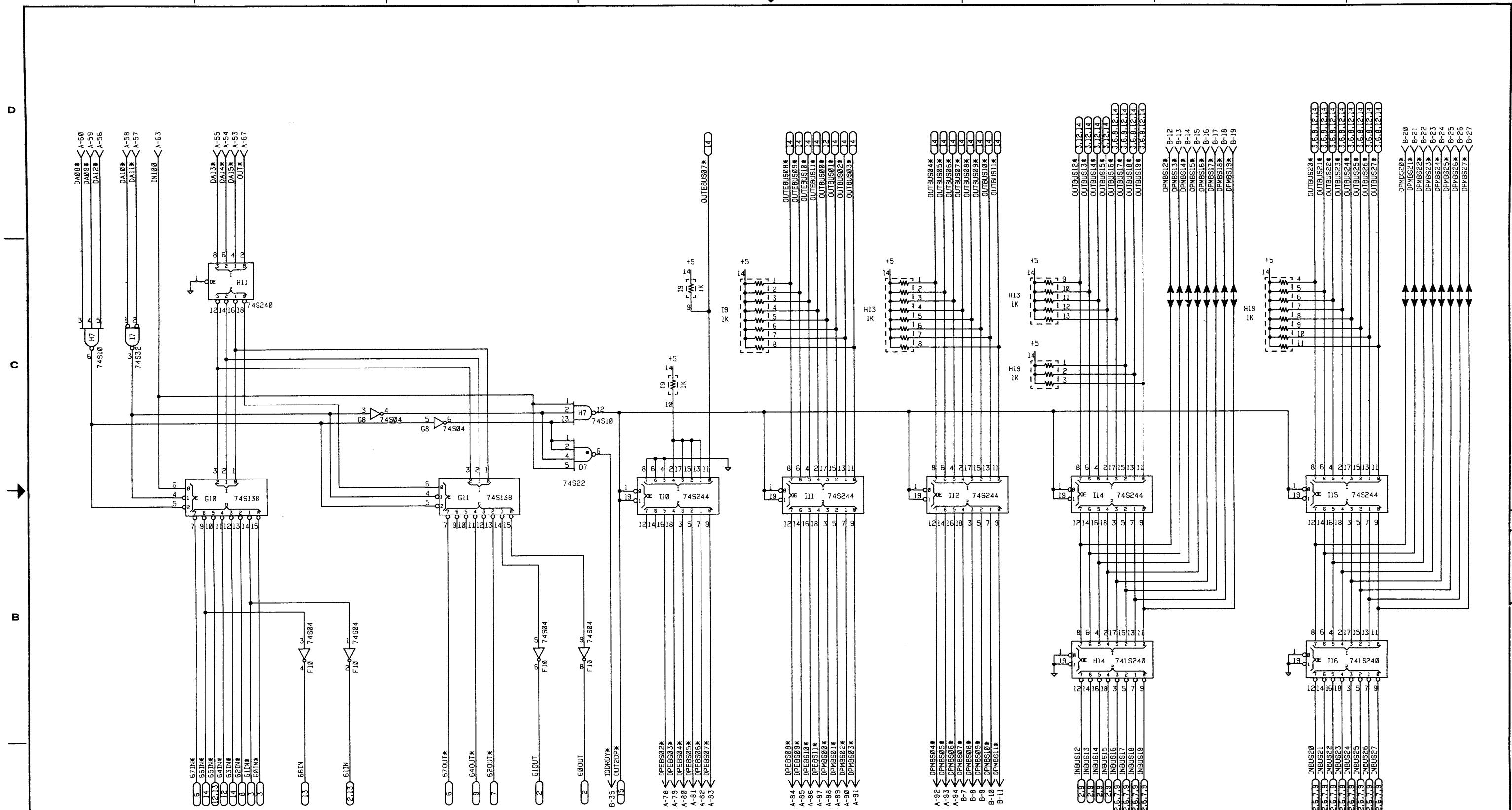
A

A



FORMAT MANTISSA

SIZE	CODE IDENT. NO.	DRAWING NO.	REV.
D	56504	512-3446-005	A
SCALE	NONE		SHEET 14



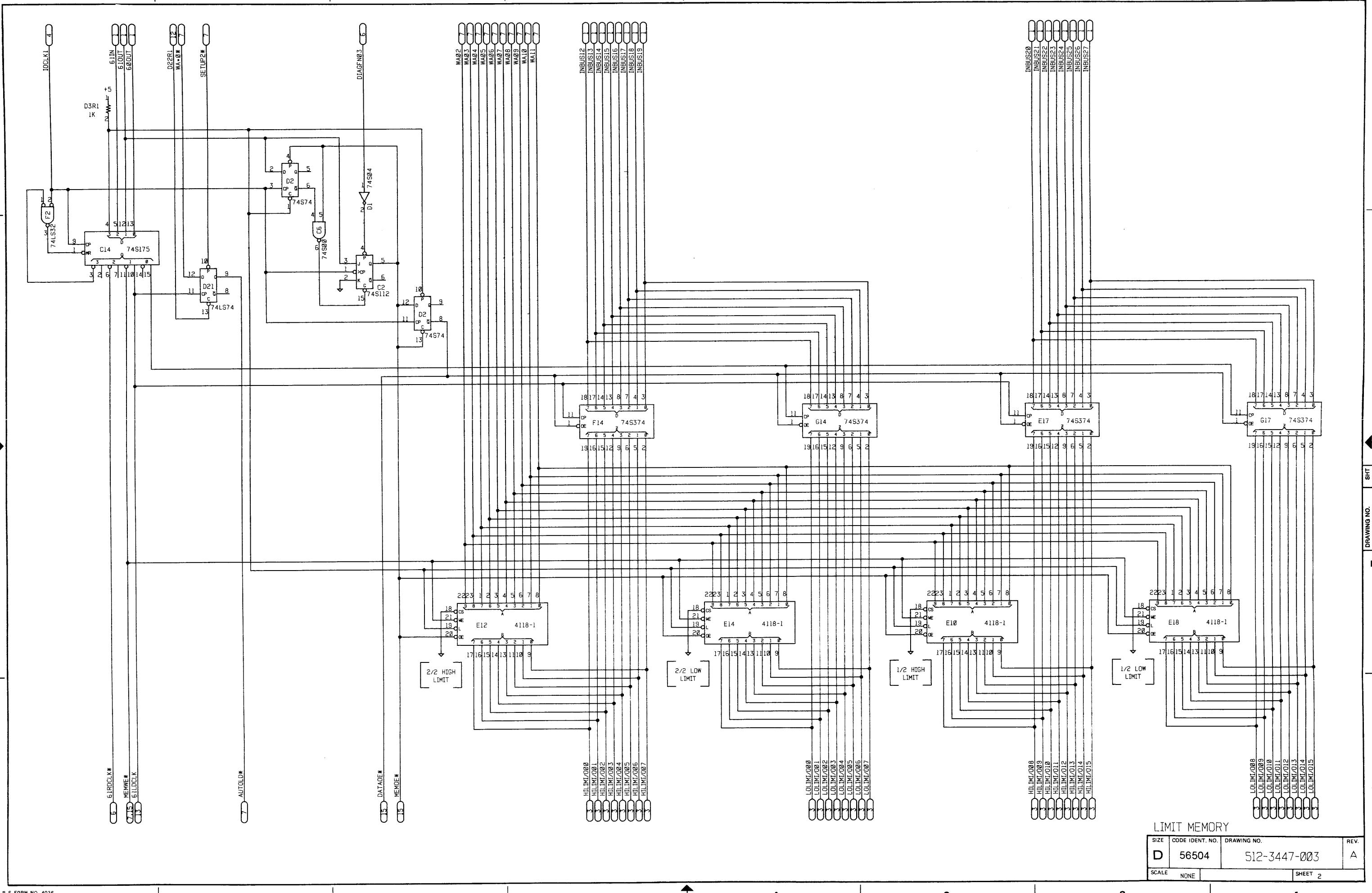
NOTE: UNLESS OTHERWISE SPECIFIED:

1. ALL RESISTOR VALUES ARE IN OHMS.

2. ALL CAPACITOR VALUES ARE IN MICROFARADS.

IMPORTANT NOTE: IGNORE DASHES IN PINOUTS (EXAMPLE:A-19),
THEY ARE FOR PURPOSES OF CLARITY ONLY.I/O RECEIVERS AND DRIVERS
DEVICE ADDRESS DECODERS

REVISIONS				PROPRIETARY INFORMATION		UNITED RIGHTS LEGEND		PROJ. ENG. <i>Paul Cade</i> DRAWN BY <i>C.R.D.</i>		DATE 2/24/83 DRAWN 2/23/82		FLEATING POINT SYSTEMS, INC.	
REV.	AUTH.	DESCRIPTION	ZONE	APVD / DATE	CHK. / DATE	Contract No.	Contractor: FLOATING POINT SYSTEMS, INC.	These portions of this technical data indicated as limited rights data shall not, without the written permission of the above Contractor, be either (a) used, released or disclosed in whole or in part outside the Government, (b) used in whole or in part by the Government for manufacture or, in the case of computer software documentation, for preparing the same or similar computer software, or (c) used by a party other than the Government except for (i) emergency repair or overhaul work only, by the Government or its contractors or subcontractors, not otherwise restricted, provided that the release or disclosure hereof outside the Government shall be made subject to a prohibition against further use, release or disclosure; or (ii) release to a foreign government, as the interest of the United States may require, only for information or evaluation within such government or for emergency repair or overhaul work by or for such government under the conditions (i) above. This legend, together with the indications of the portions of this data which are subject to such limitations shall be included on any reproduction hereof which includes any part of the portions subject to such limitations.	DRAWING TITLE SCHEMATIC, EDB, 447 CIO, RDCP	DATE 2/24/83 DRAWN 2/24/83	SIZE D CODE IDENT. NO. 56504	DRAWING NO. 512-3447-003	REV. A
01	EN # 249	LEVEL 1 RELEASE 106510	C8	10-12-82 CARLA JACKSON	KO-168L <i>Wade</i>								
02	ECO 82718	LVL 2 REL: ADD GATES C5,6 SHT 11 DELETE SPARE LOGIC C5,6 SHT 17	C8	2-24-83 CARLA JACKSON	<i>Wade</i>								
A	ECO 83013	LEVEL 3 RELEASE											

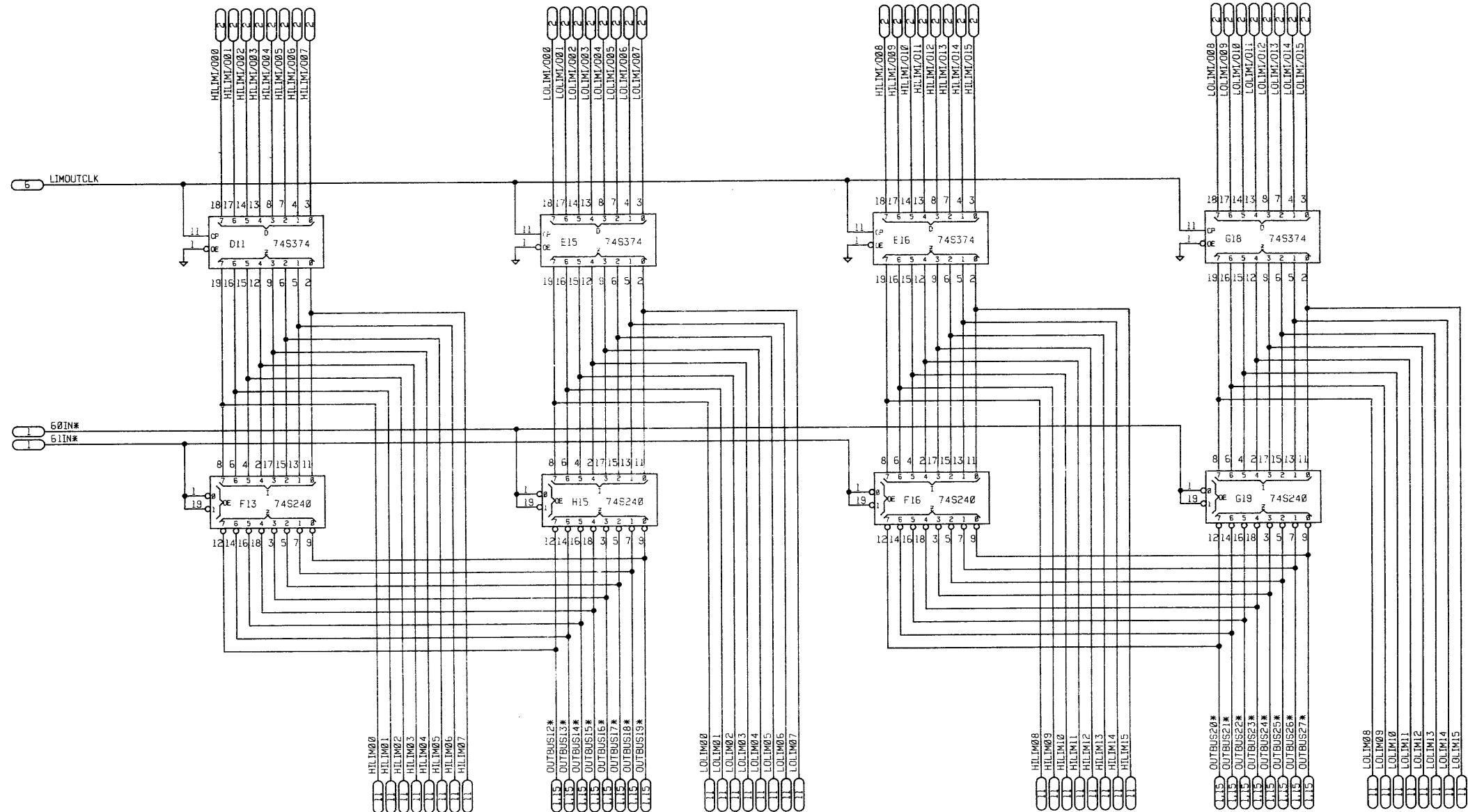


D

C

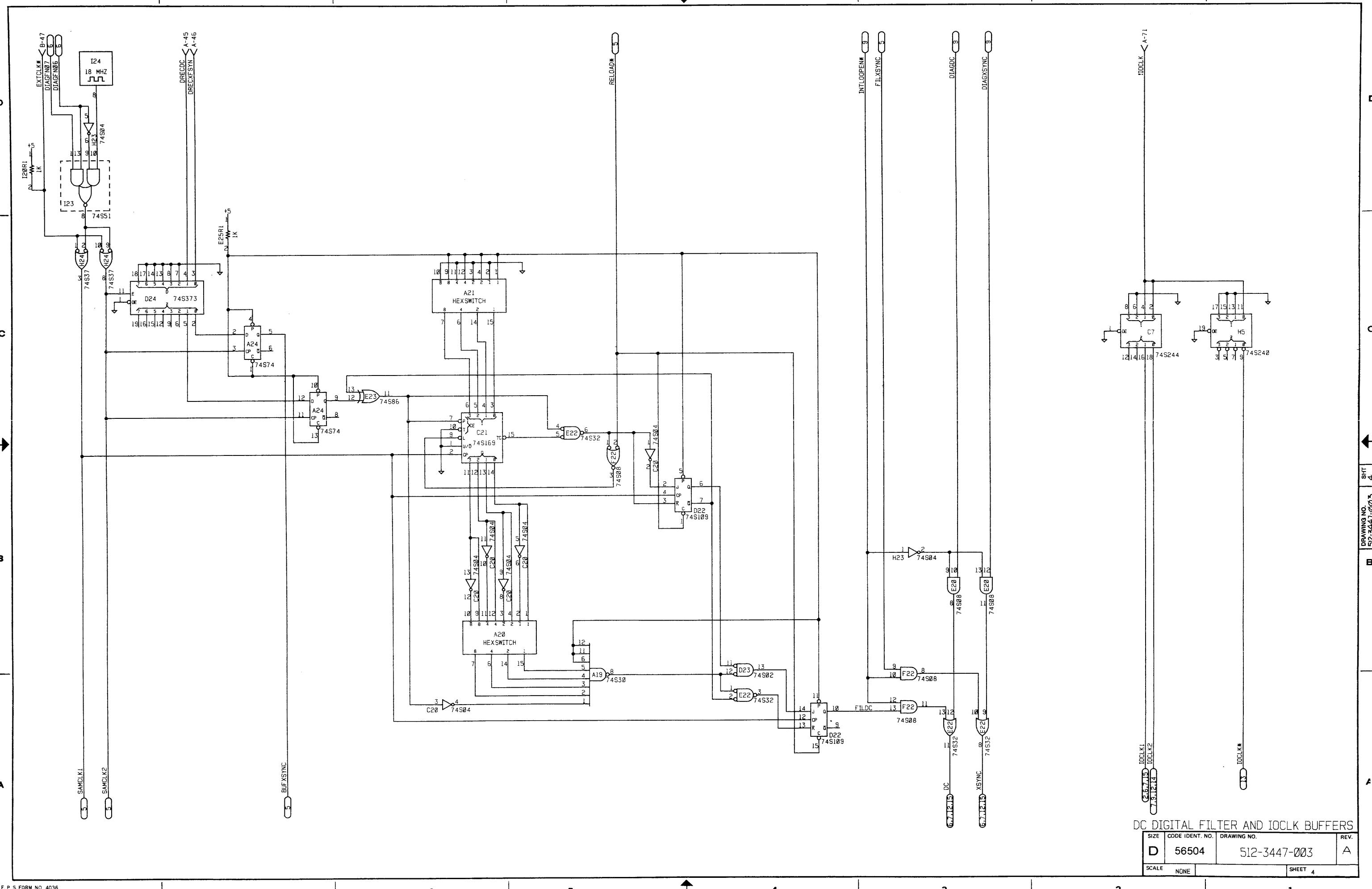
B

A



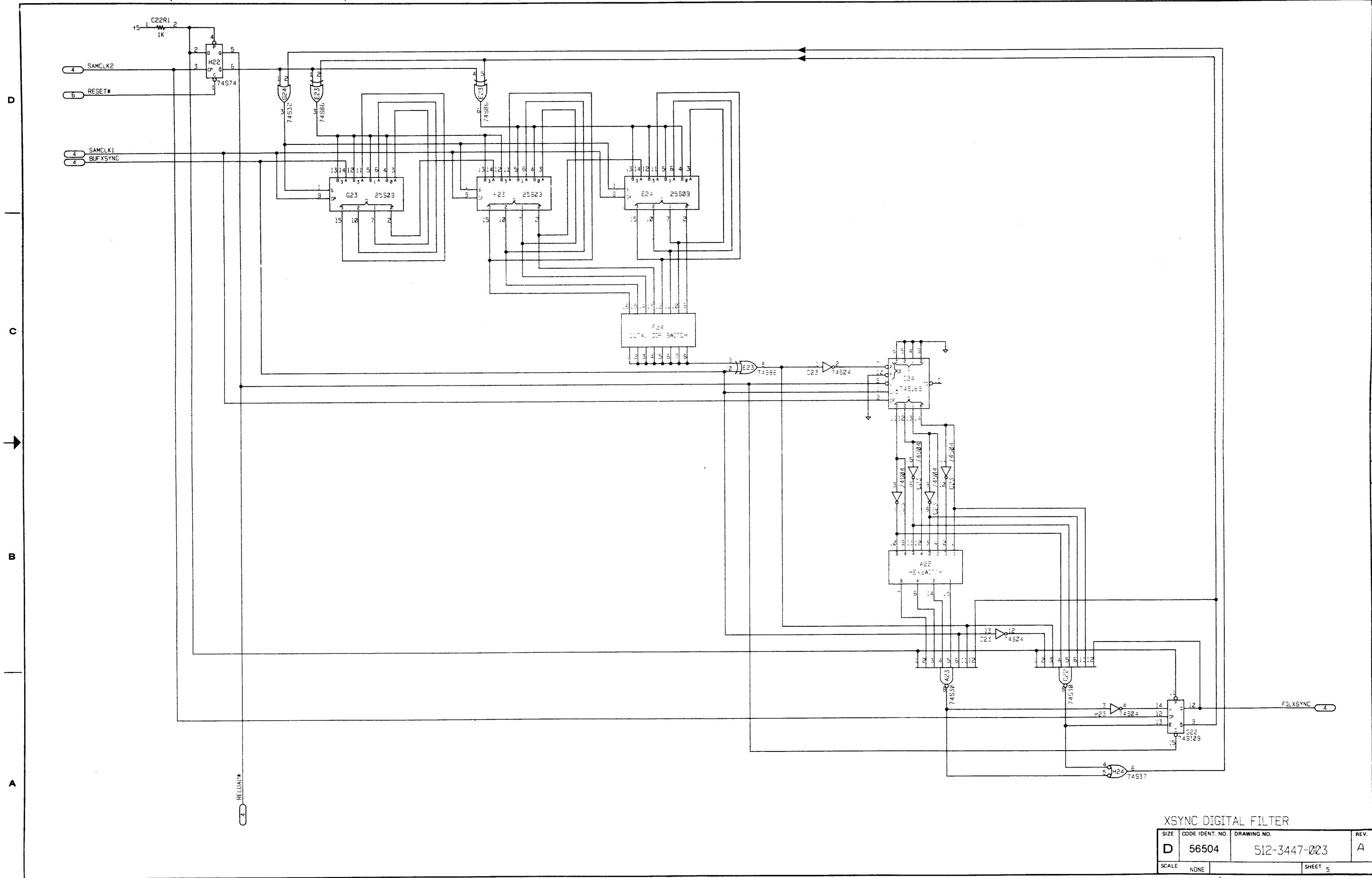
LIMIT MEMORY OUTPUT REG,
DIAGNOSTIC OUTBUS DRIVERS

SIZE	CODE IDENT. NO.	DRAWING NO.	REV.
D	56504	512-3447-003	A
SCALE	NONE	SHEET 3	



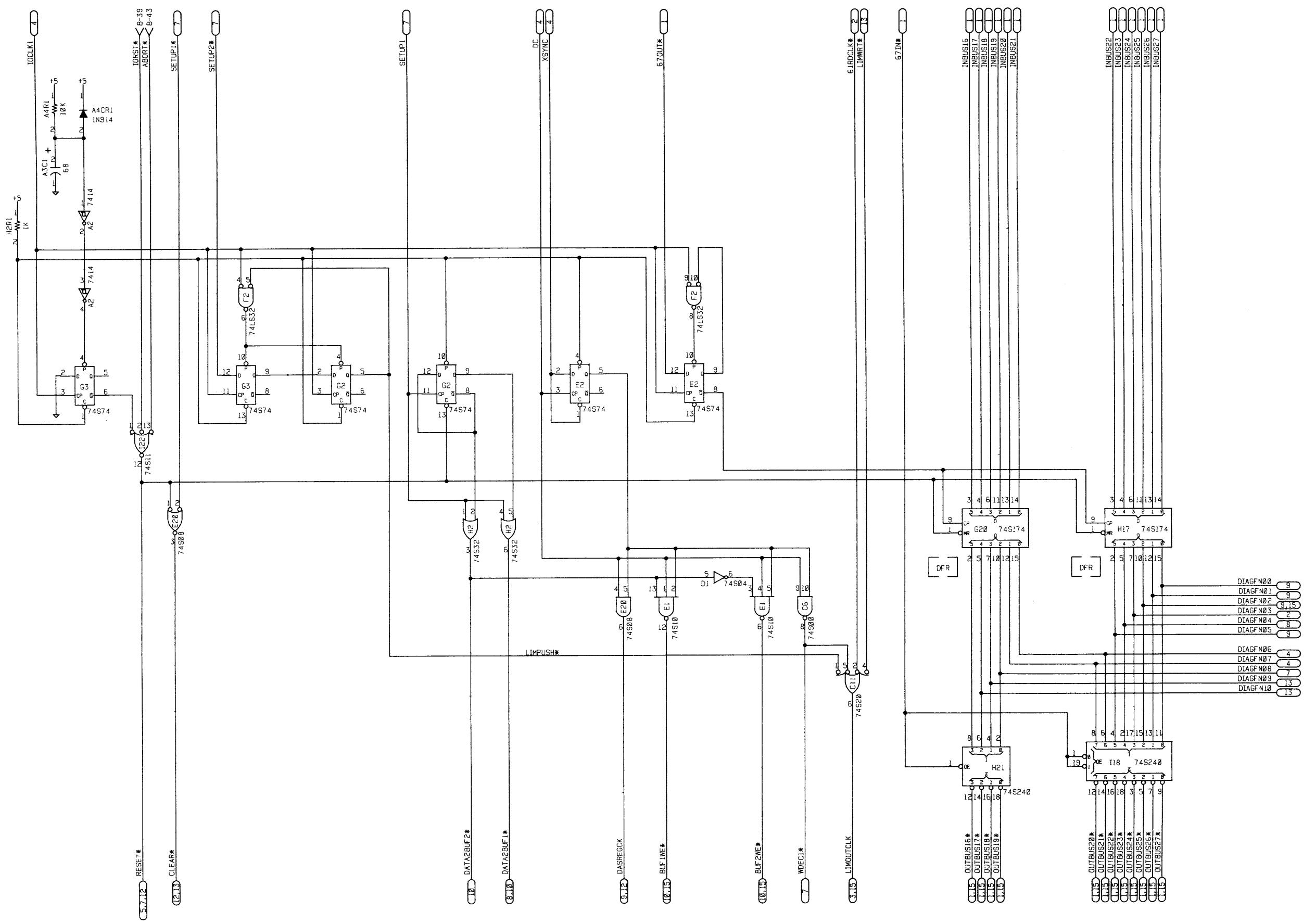
DC DIGITAL FILTER AND IOCLK BUFFERS

DO DODGE FILTER AND ISOLATOR PARTS			REV.
SIZE D	CODE IDENT. NO. 56504	DRAWING NO. 512-3447-003	A
SCALE NONE			SHEET 4



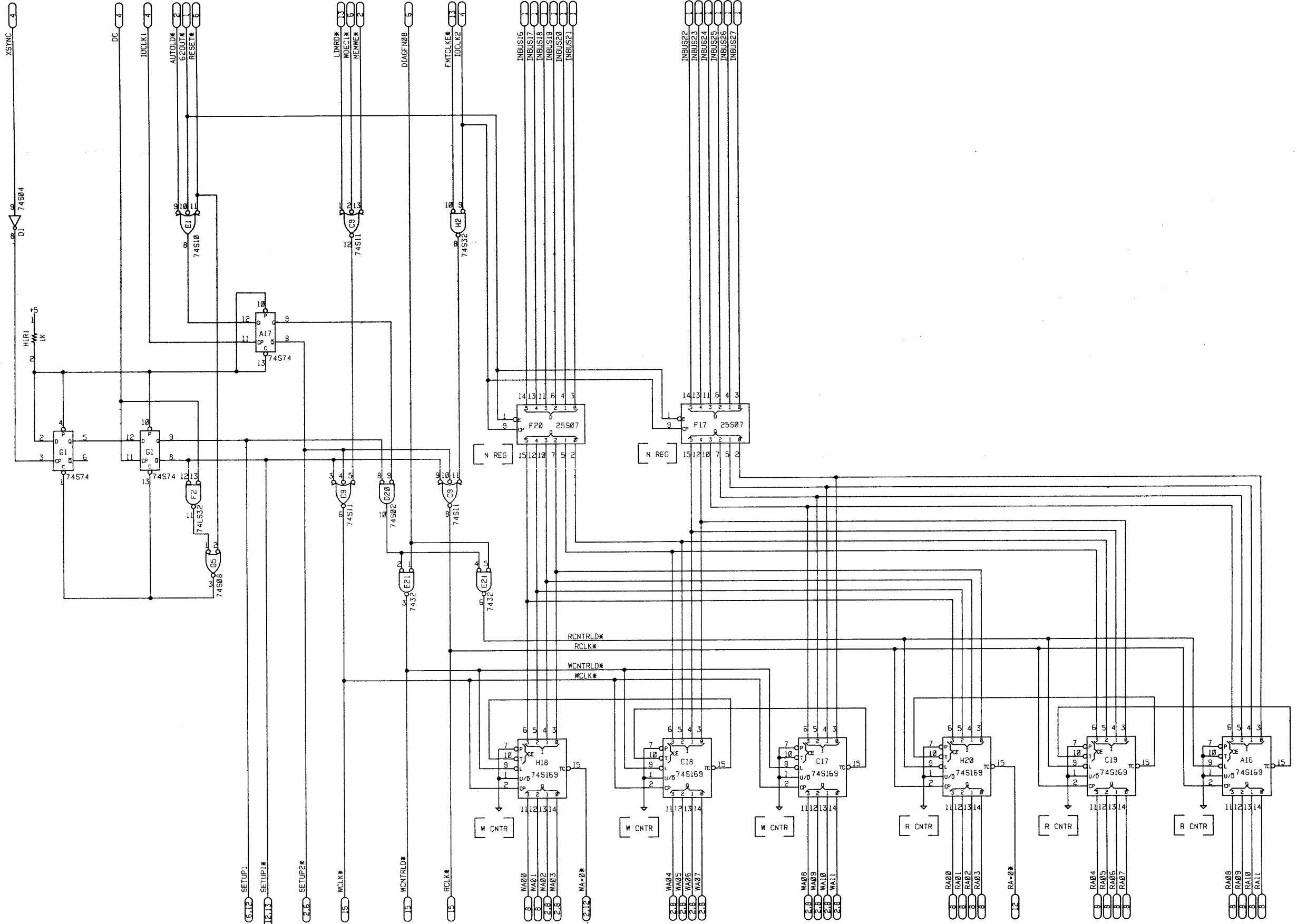
XSYNC DIGITAL FILTER

SIZE D	CODE IDENT. NO. 56504	DRAWING NO. 512-3447-023	REV. A
SCALE NONE		SHEET 5	



VIEW MEMORY AND LIMIT MEMORY CONTROL,
RESET AND CLEAR, DFR AND OUTBUS DRIVERS

SIZE	CODE IDENT. NO.	DRAWING NO.	REV.
D	56504	512-3447-003	A
SCALE	NONE		



N REGISTER, R CNTR AND W CNTR, CNTR LOAD
AND DECREMENT CONTROL LOGIC

SIZE	CODE IDENT. NO.	DRAWING NO.	REV.
D	56504	512-3447-003	A
SCALE	NONE	SHEET 7	

8

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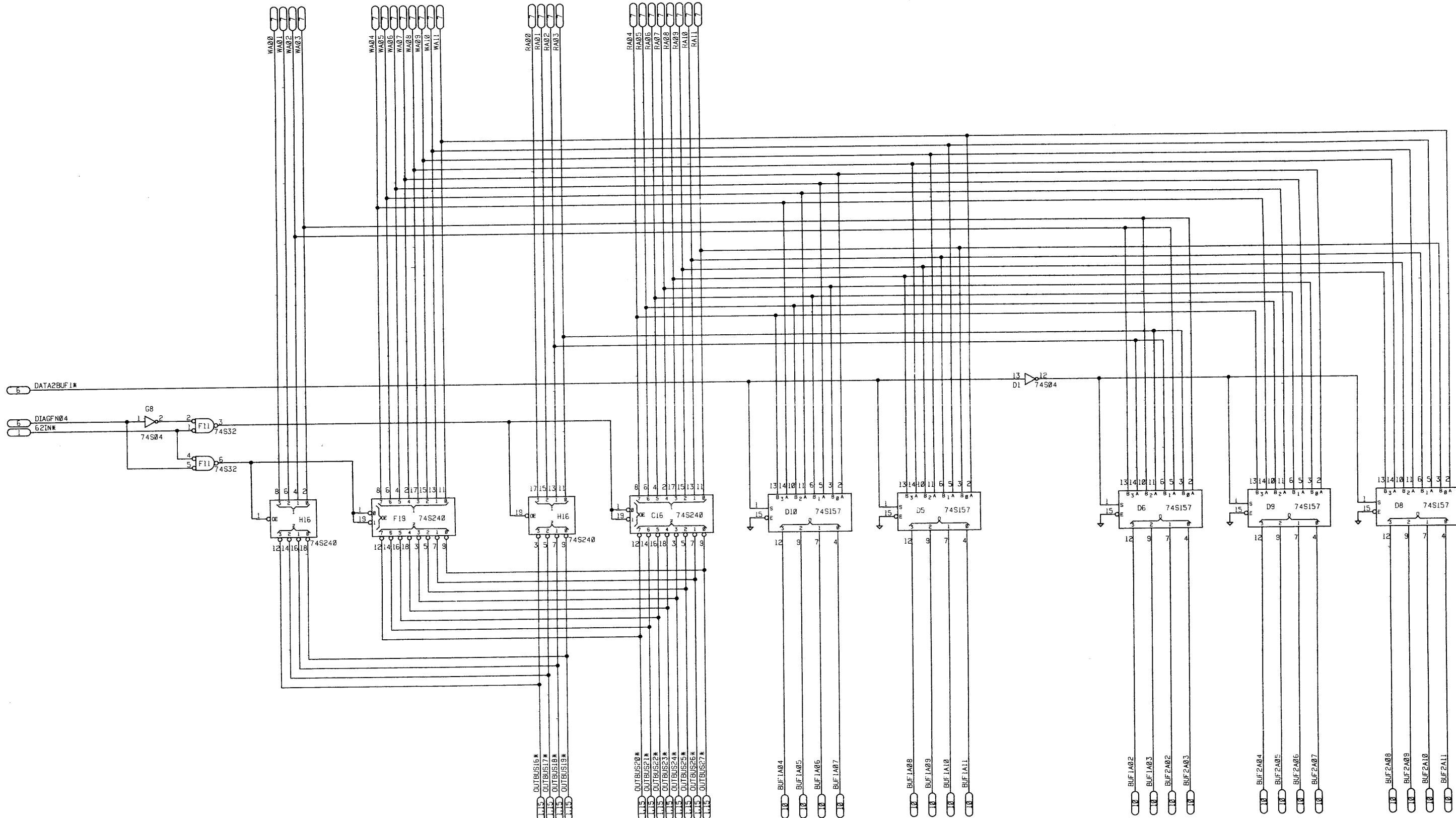
C

B

B

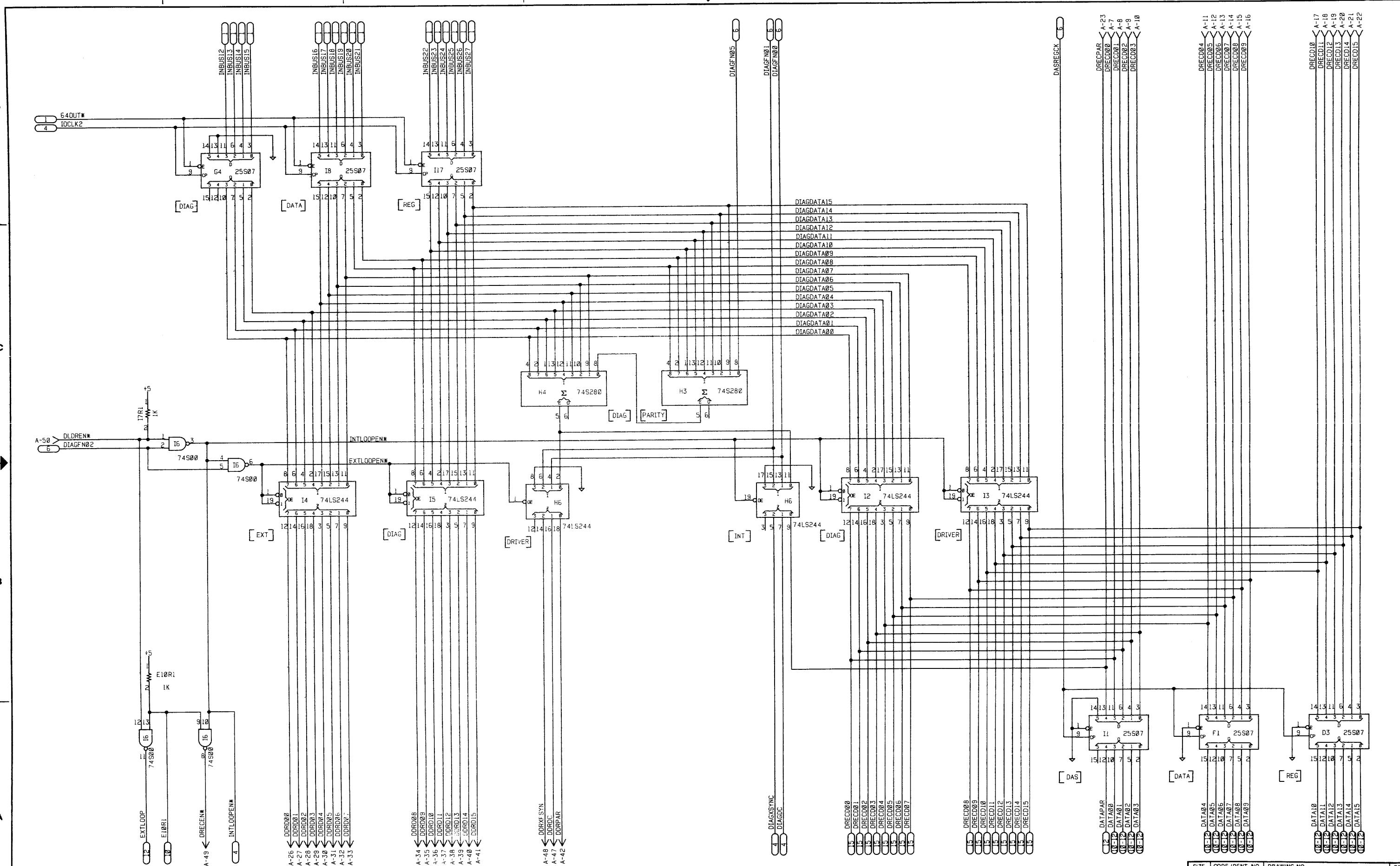
A

A



W CNTR AND R CNTR DIAGNOSTIC
OUTBUS DRIVERS, VIEW MEMORY
ADDRESS MUX

SIZE	CODE IDENT. NO.	DRAWING NO.	REV.
D	56504	512-3447-003	A
SCALE	NONE	SHEET 8	



DAS DATA REG, DIAGNOSTIC DATA REG, INTERNAL AND EXTERNAL DIAGNOSTIC LOOP DRIVERS

SIZE D	CODE IDENT. NO. 56504	DRAWING NO. 512-3447-003	REV. A
SCALE	NONE	SHEET	9

8

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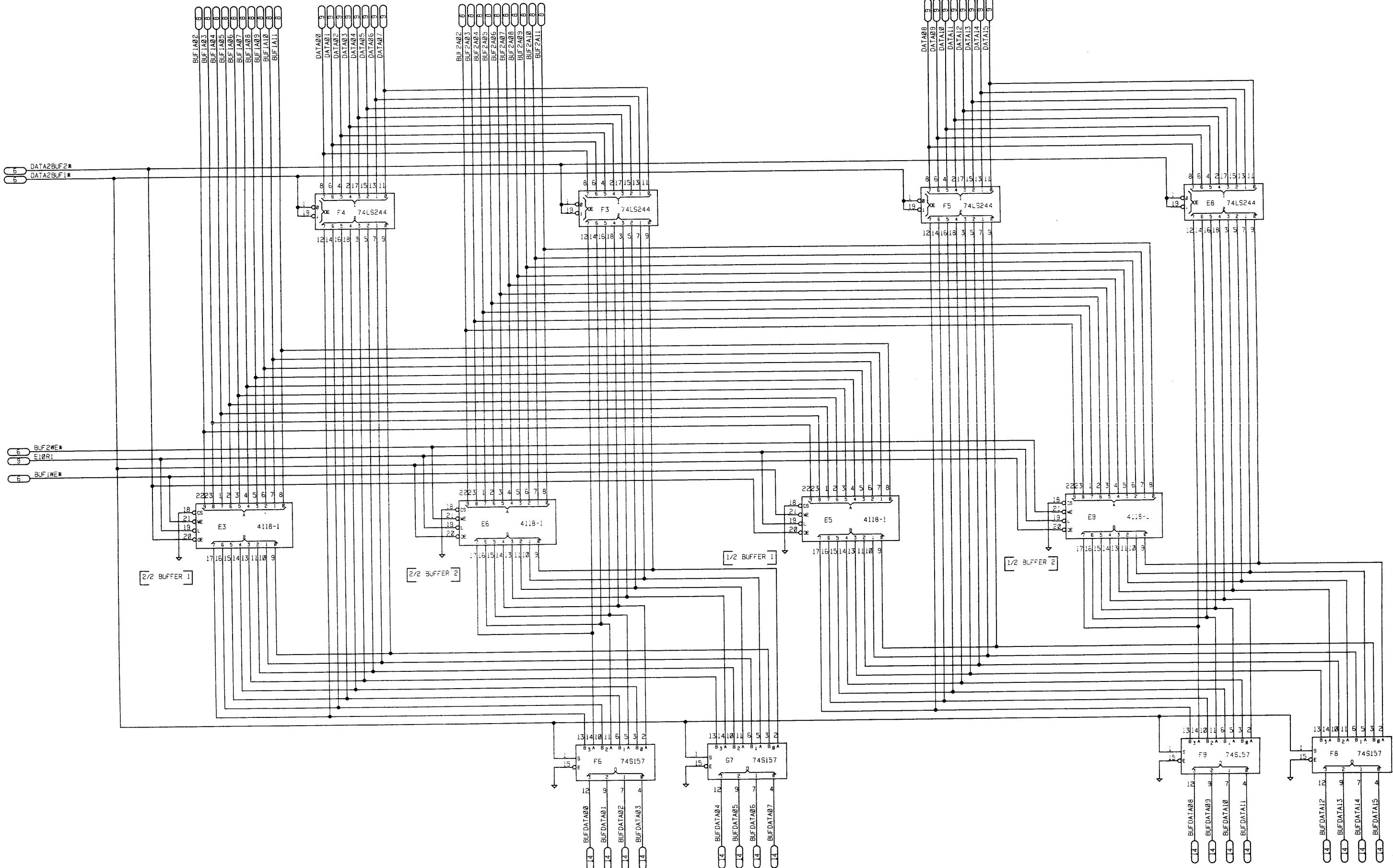
C

B

B

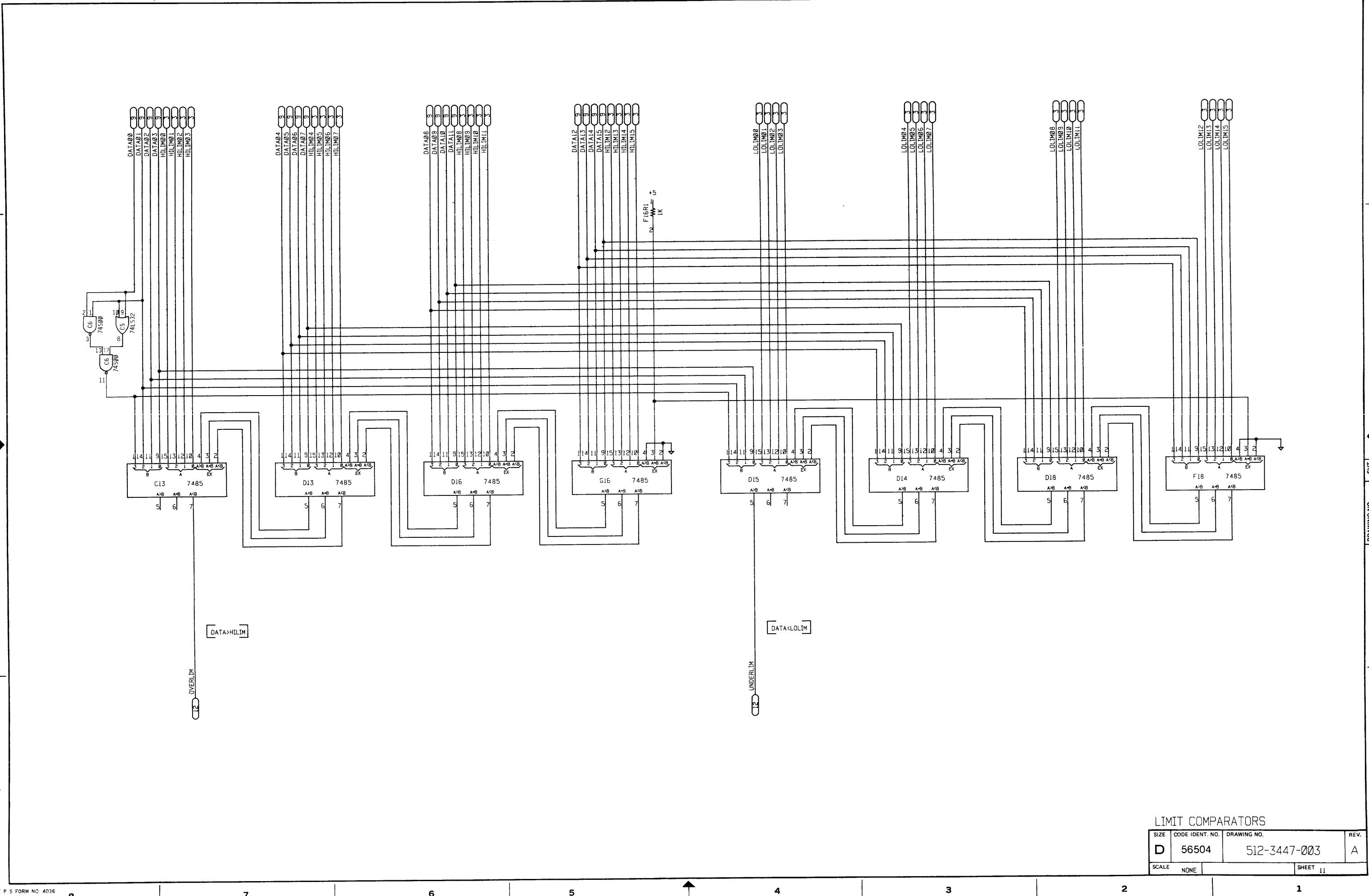
A

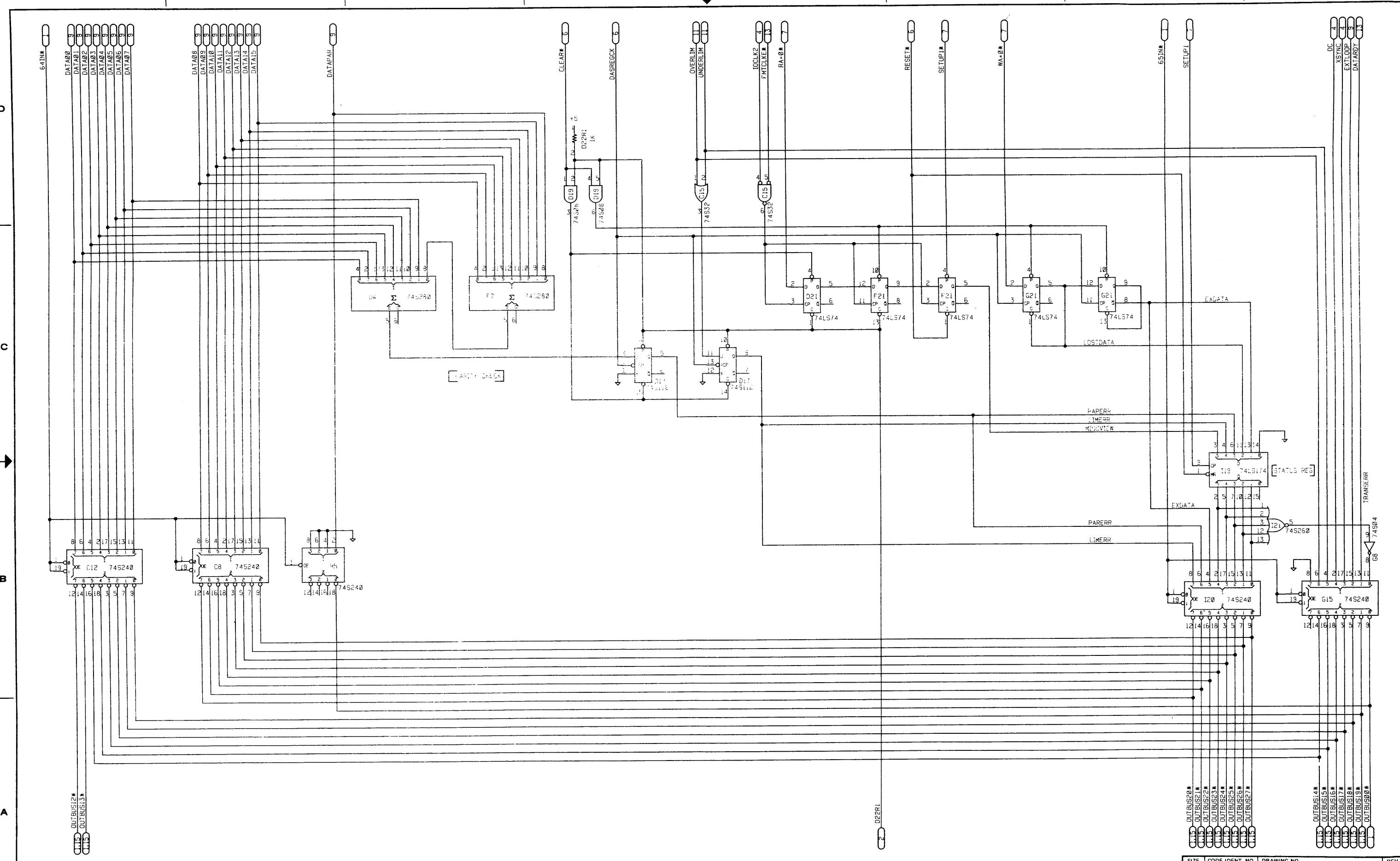
A



VIEW MEMORY

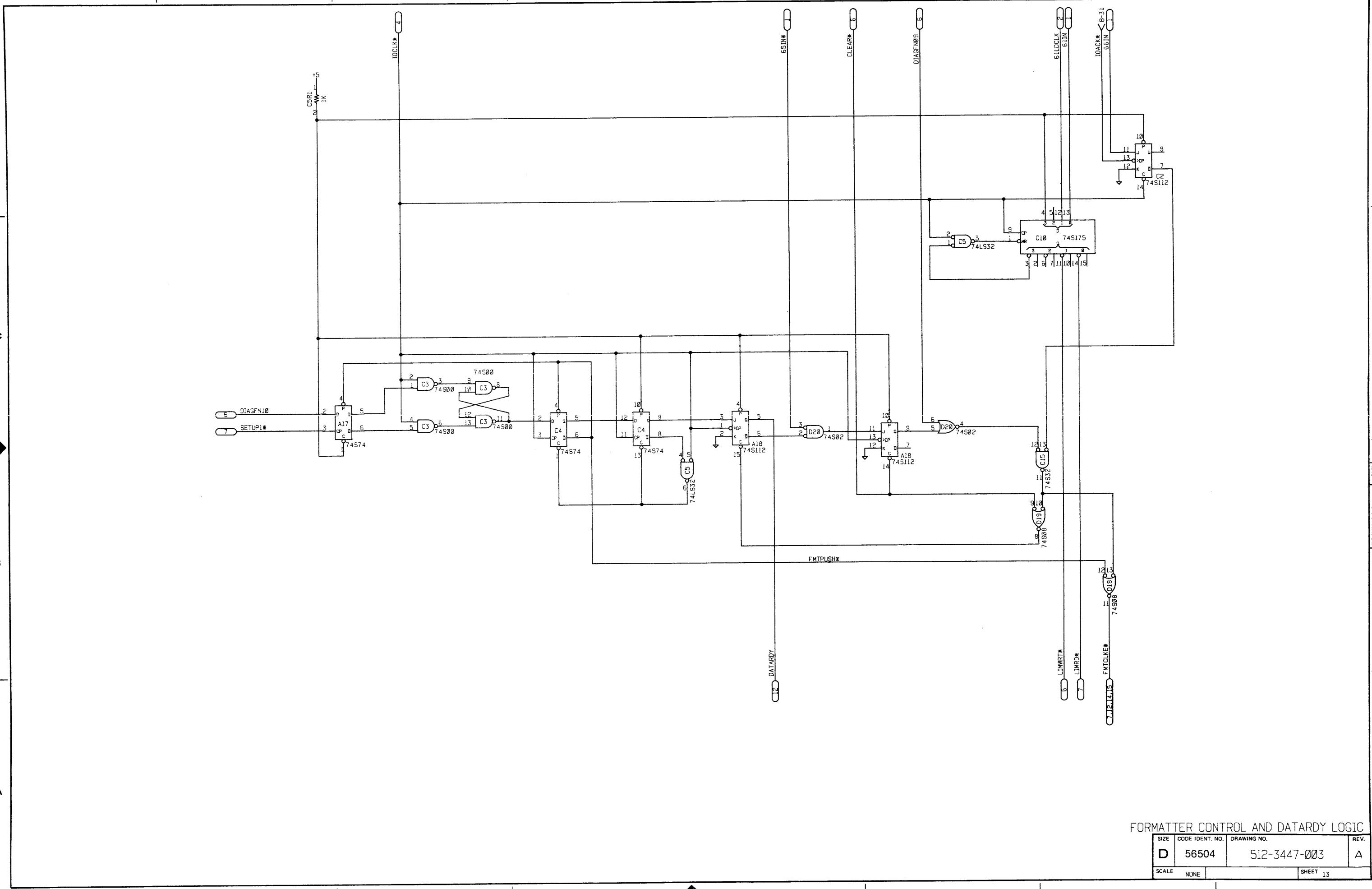
SIZE	CODE IDENT. NO.	DRAWING NO.	REV.
D	56504	512-3447-003	A
SCALE			NONE
SHEET			10

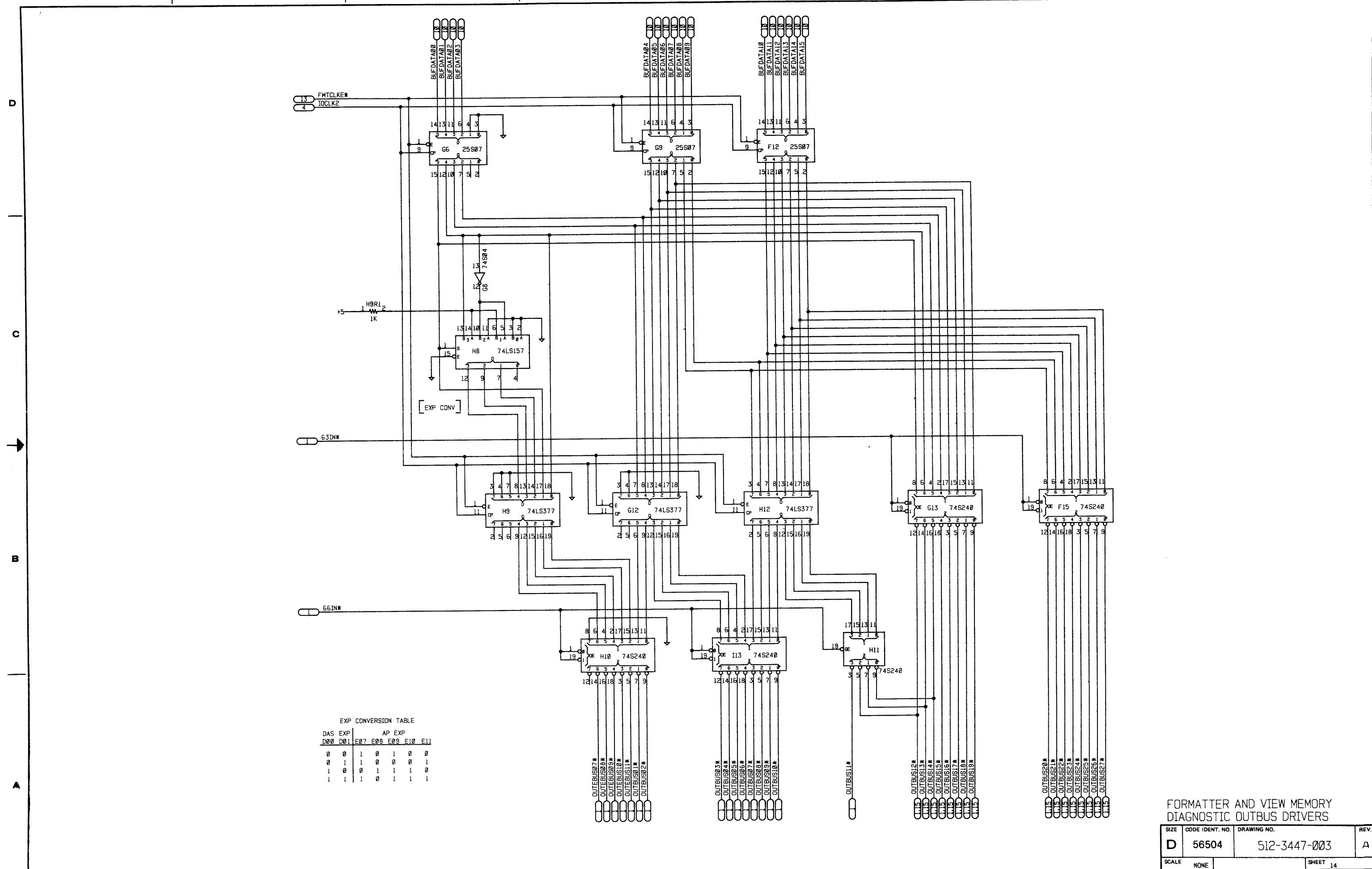




DAS DATA REG DIAGNOSTIC OUTBUS
DRIVERS, ERROR AND STATUS LOGIC

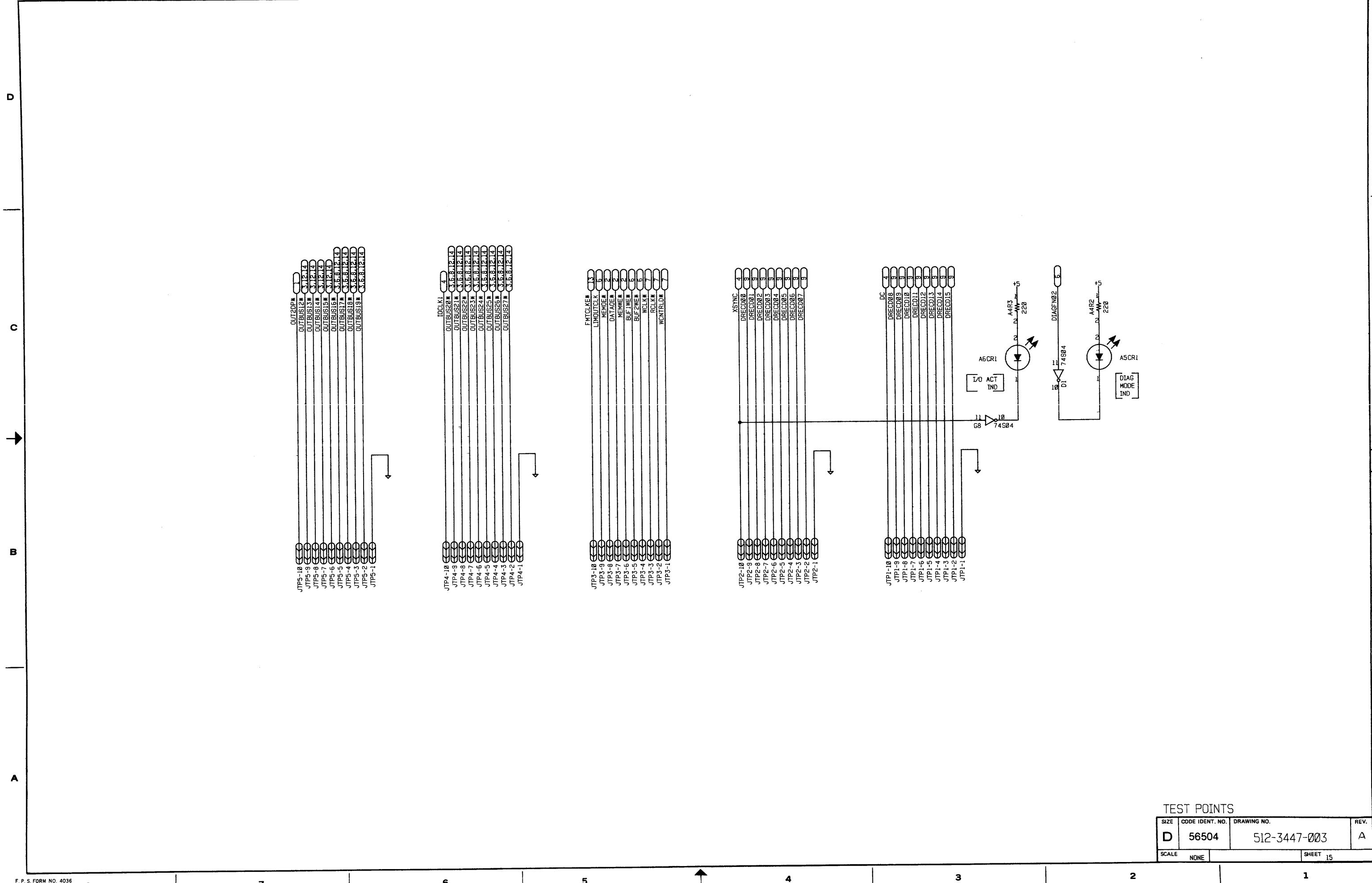
E	CODE IDENT. NO.	DRAWING NO.	REV.
O	56504	512-3447-003	A
LE	NONE	SHEET 12	

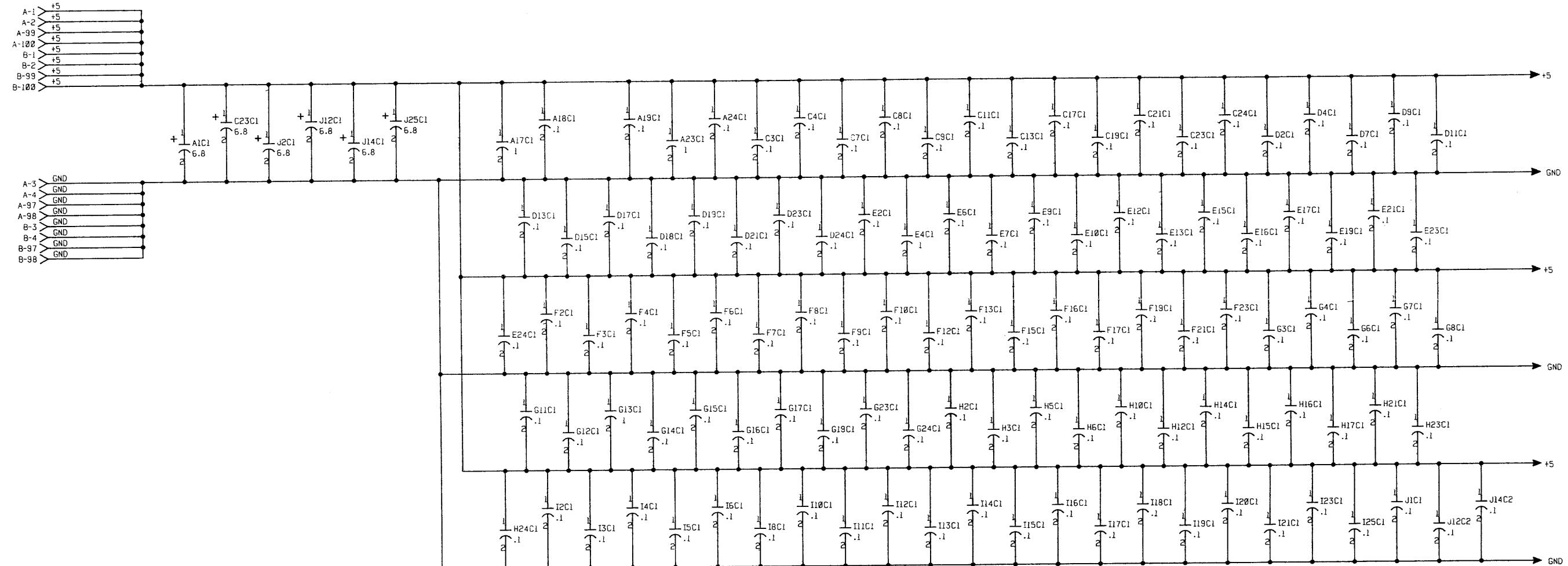




FORMATTER AND VIEW MEMORY DIAGNOSTIC OUTBUS DRIVERS

SIZE	CODE IDENT. NO.	DRAWING NO.	REV.
	56504	512-3447-003	A
SCALE	NONE	SHEET 14	

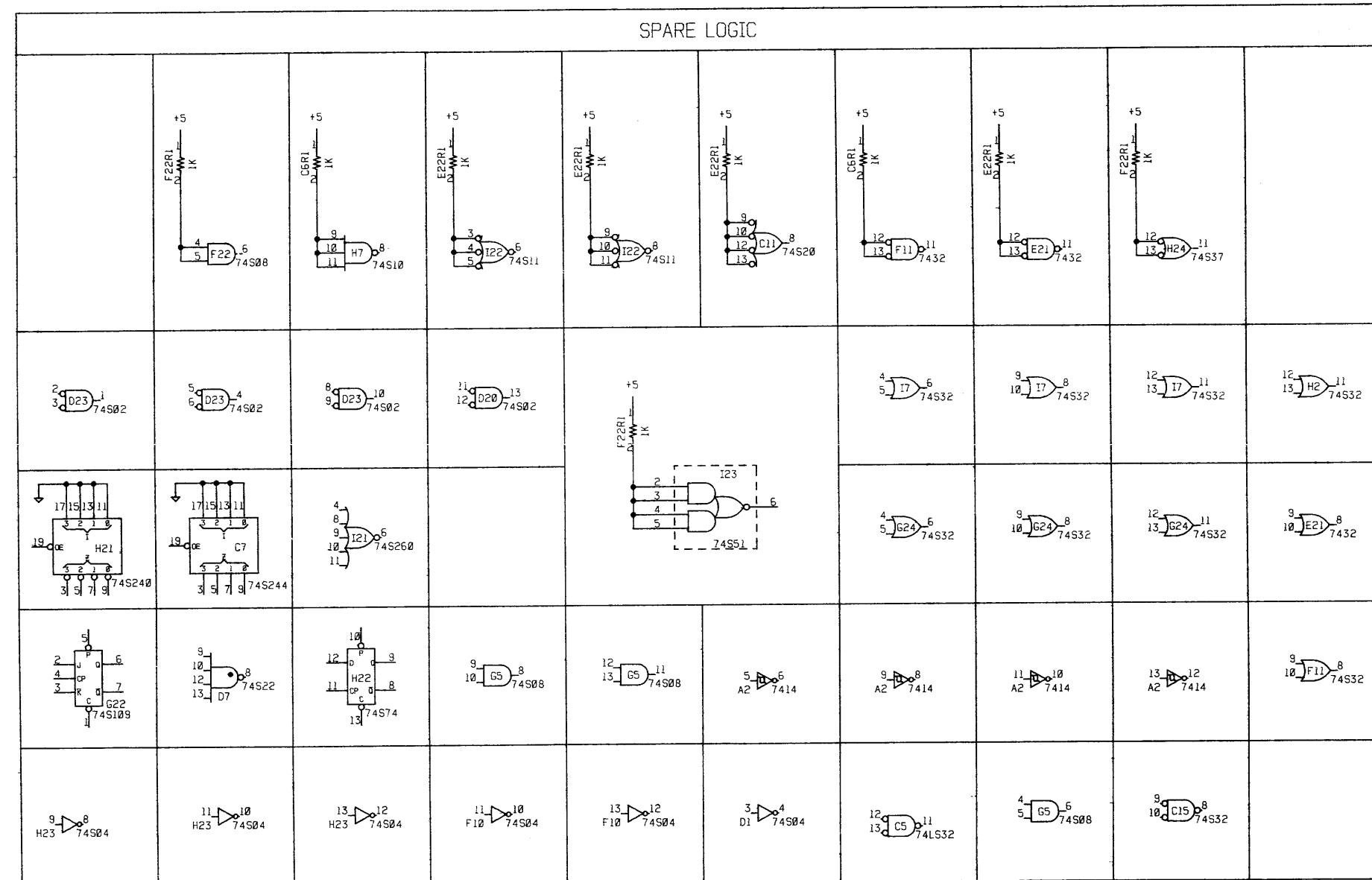
D
C
B
A



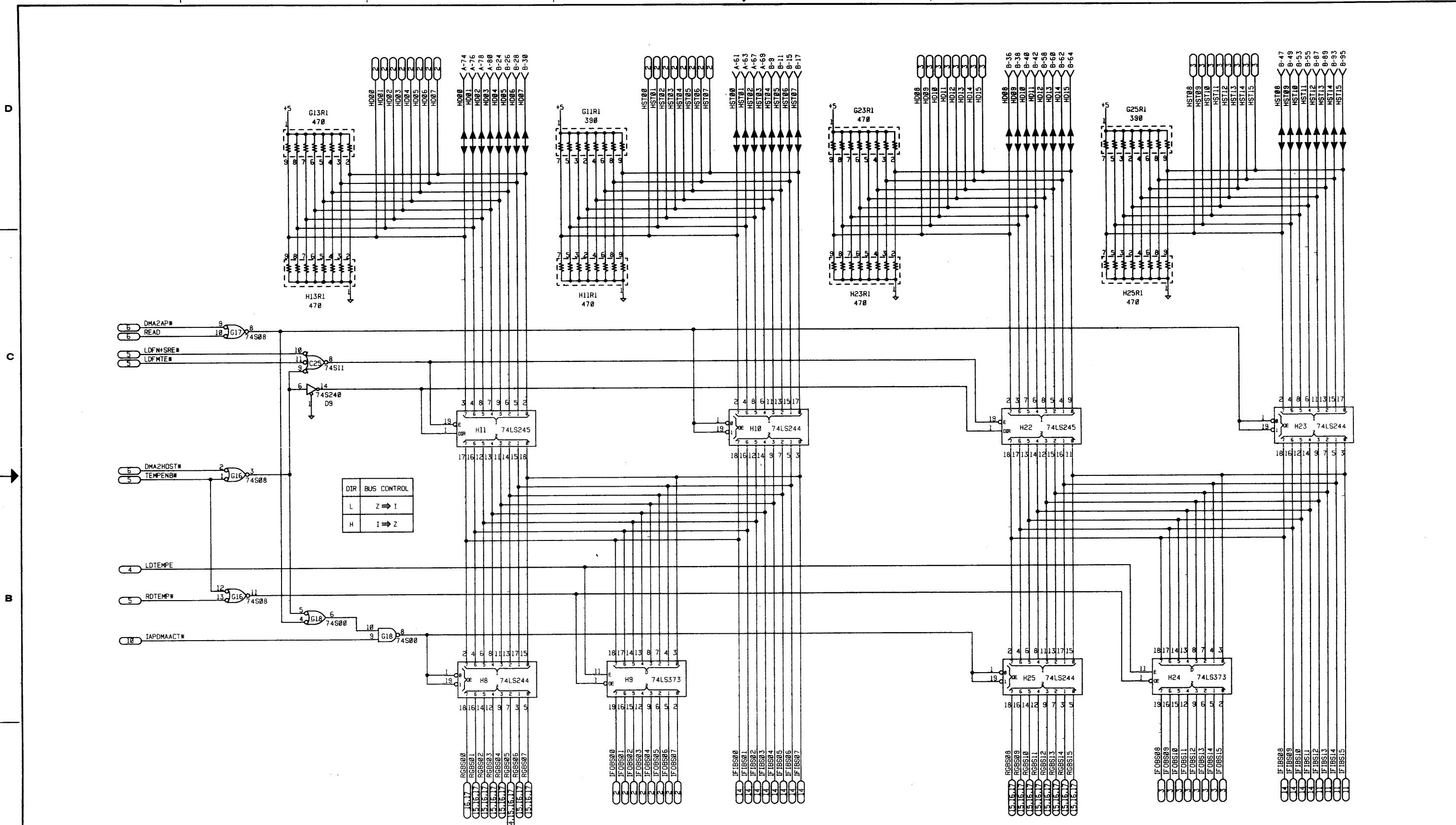
DRAWING NO.

SIZE	CODE IDENT. NO.	DRAWING NO.	REV.
D	56504	512-3447-003	A
SCALE	NONE	SHEET 16	

SPARE LOGIC



D	CODE IDENT. NO.	DRAWING NO.	REV.
D	56504	512-3447-003	A
SCALE	NONE		SHEET 17



NOTE: UNLESS OTHERWISE SPECIFIED

1. ALL RESISTOR VALUES ARE IN OHMS.
DISCRETES ARE $\pm 5\%$, 1/4W.

SIPS ARE $\pm 2\%$, .18W.

IMPORTANT NOTE: IGNORE DASHES IN PINOUTS (EXAMPLE:A-19).
THEY ARE FOR PURPOSES OF CLARITY ONLY.

REVISIONS		
REV.	AUTH.	DESCRIPTION
01	ECU 83220	LEVEL 2 RELEASE

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recipient agrees to make every effort to
keep the contents of this information

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LIMITED RIGHTS Legend

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ROJ. ENG.	DATE	FPC FLOATING POINT SYSTEMS, INC. POBox 23488 Portland OR 97223
RAWN BY T PARSONS CAD	DATE 4-27-85 6-24-82	
HECK BY <i>Stewart</i>	DATE 5-16-85	DRAWING TITLE
FIG. ENG.	DATE	SCHEMATIC, ECB, 44B, ARITHMETIC PROCESSOR INTERFACE ,RDCP
	SIZE D 56504	CODE IDENT. NO. DRAWING NO. 512-3448-010 REV. 01
	SCALE NONE	SHEET 1 OF 28

8 7 6 5 4 3 2 1

↓

3 2 1

D

D

C

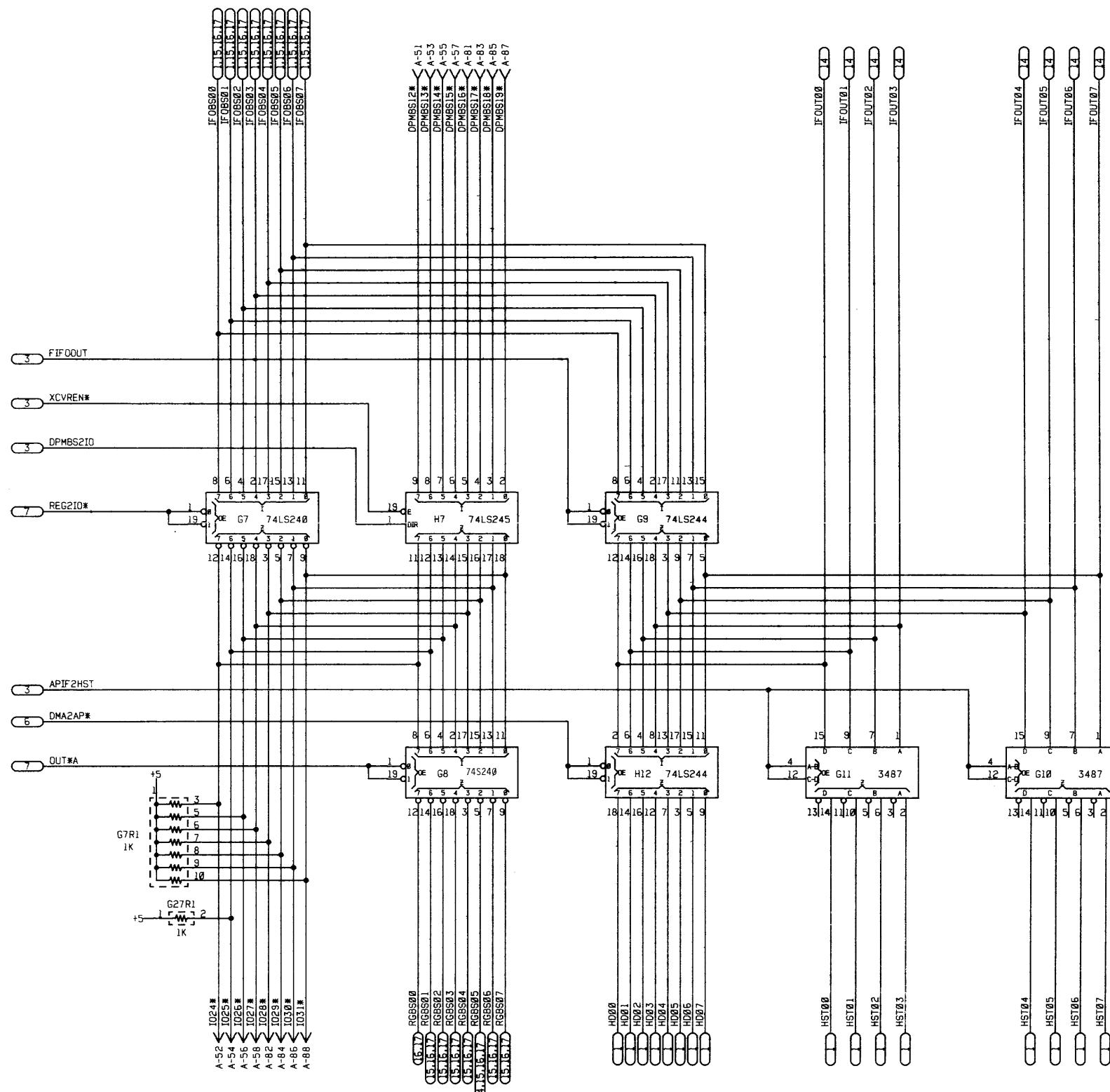
C

B

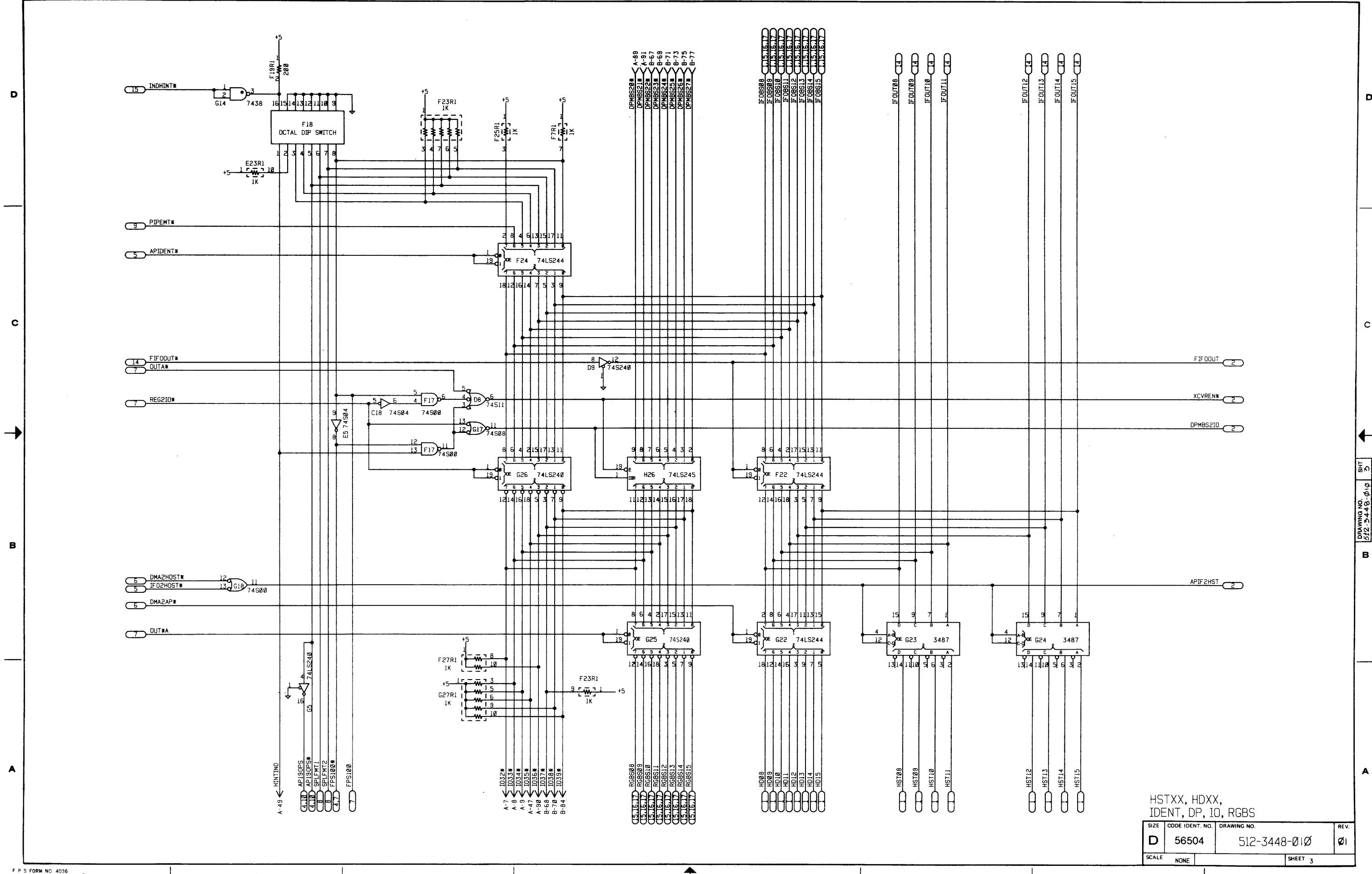
B

A

A

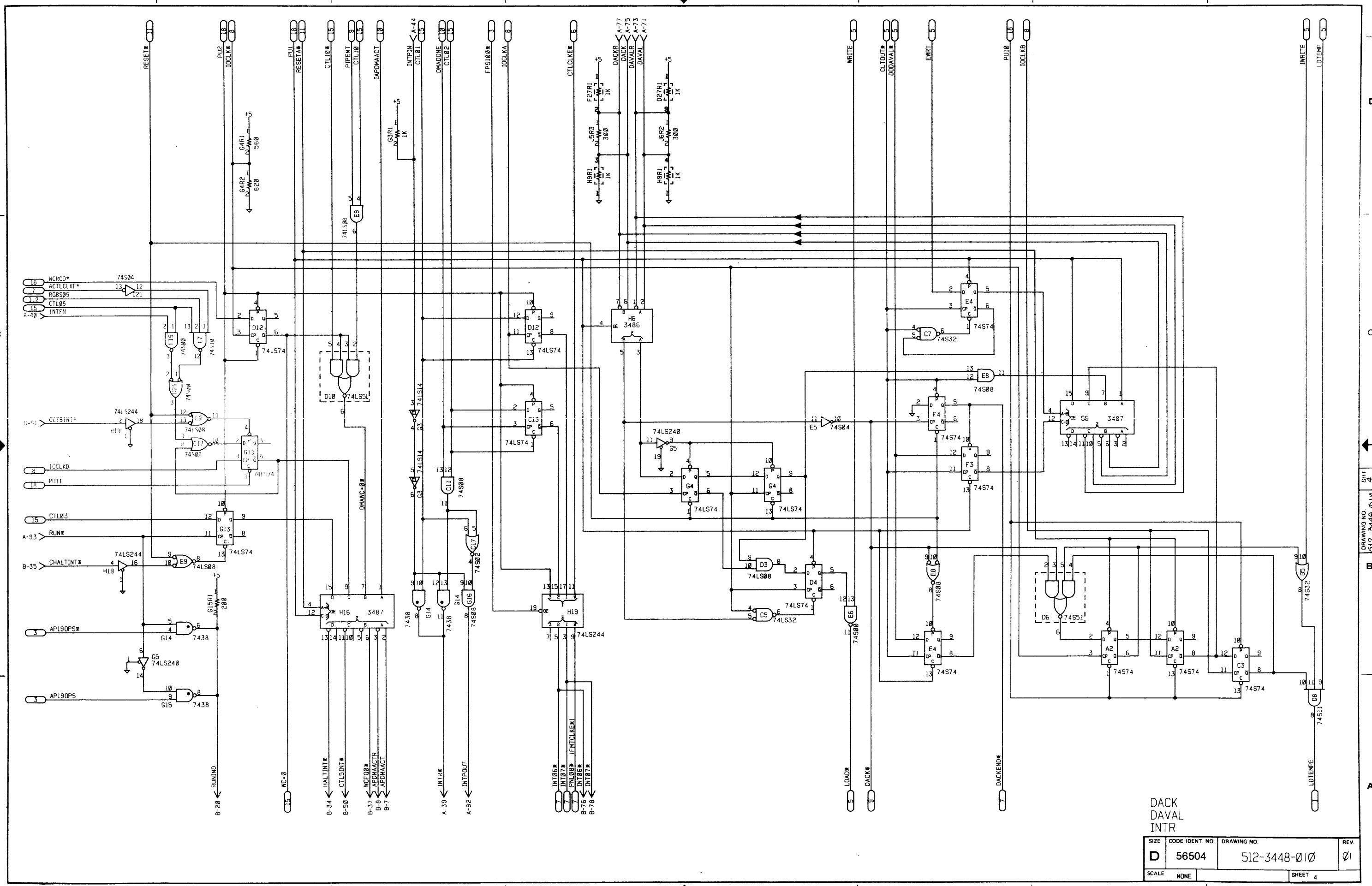
HSTXX, HDXX
DP, IO, RGBS

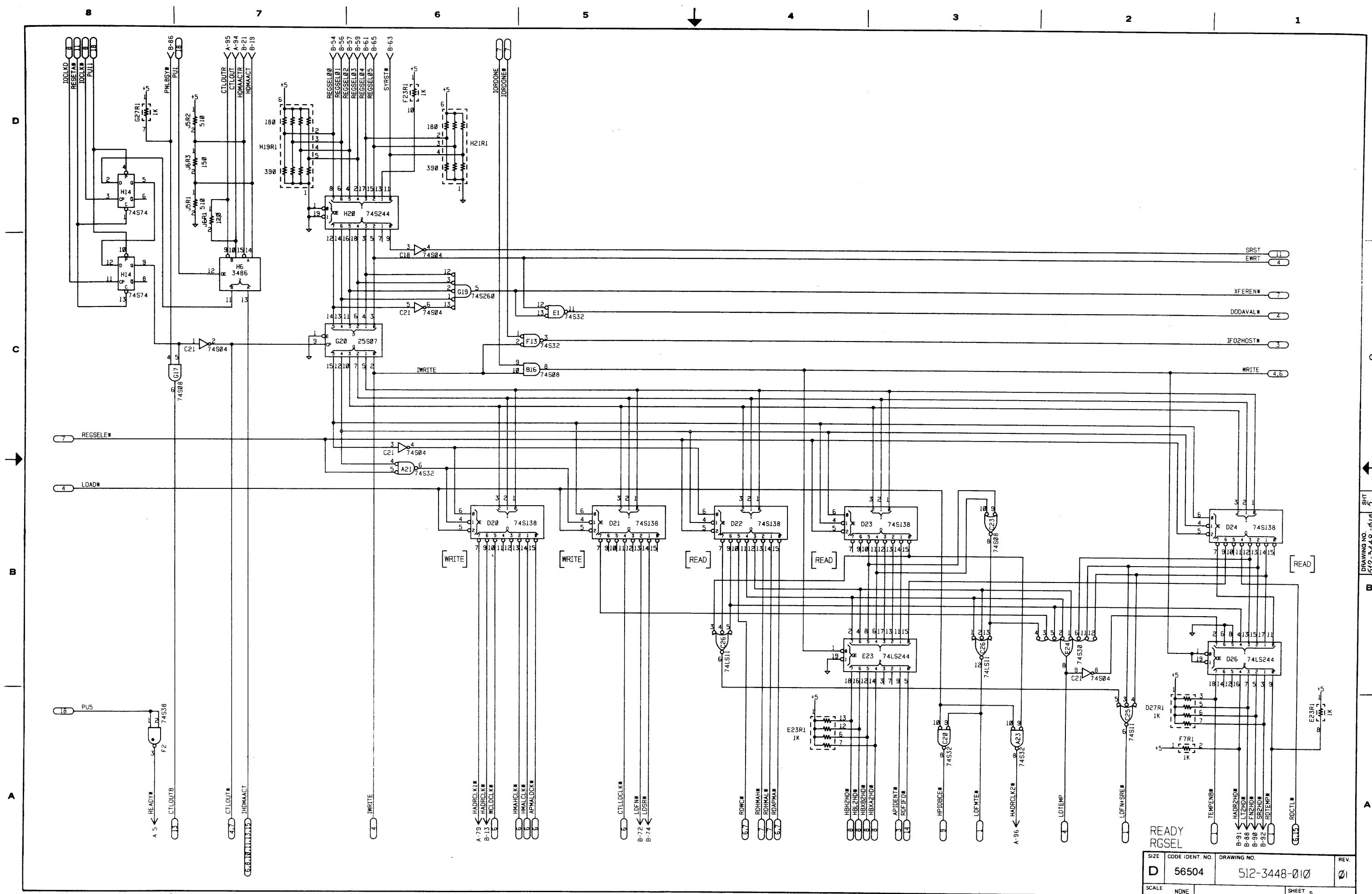
SIZE	CODE IDENT. NO.	DRAWING NO.	REV.
D	56504	512-3448-010	Ø1
SCALE	NONE		

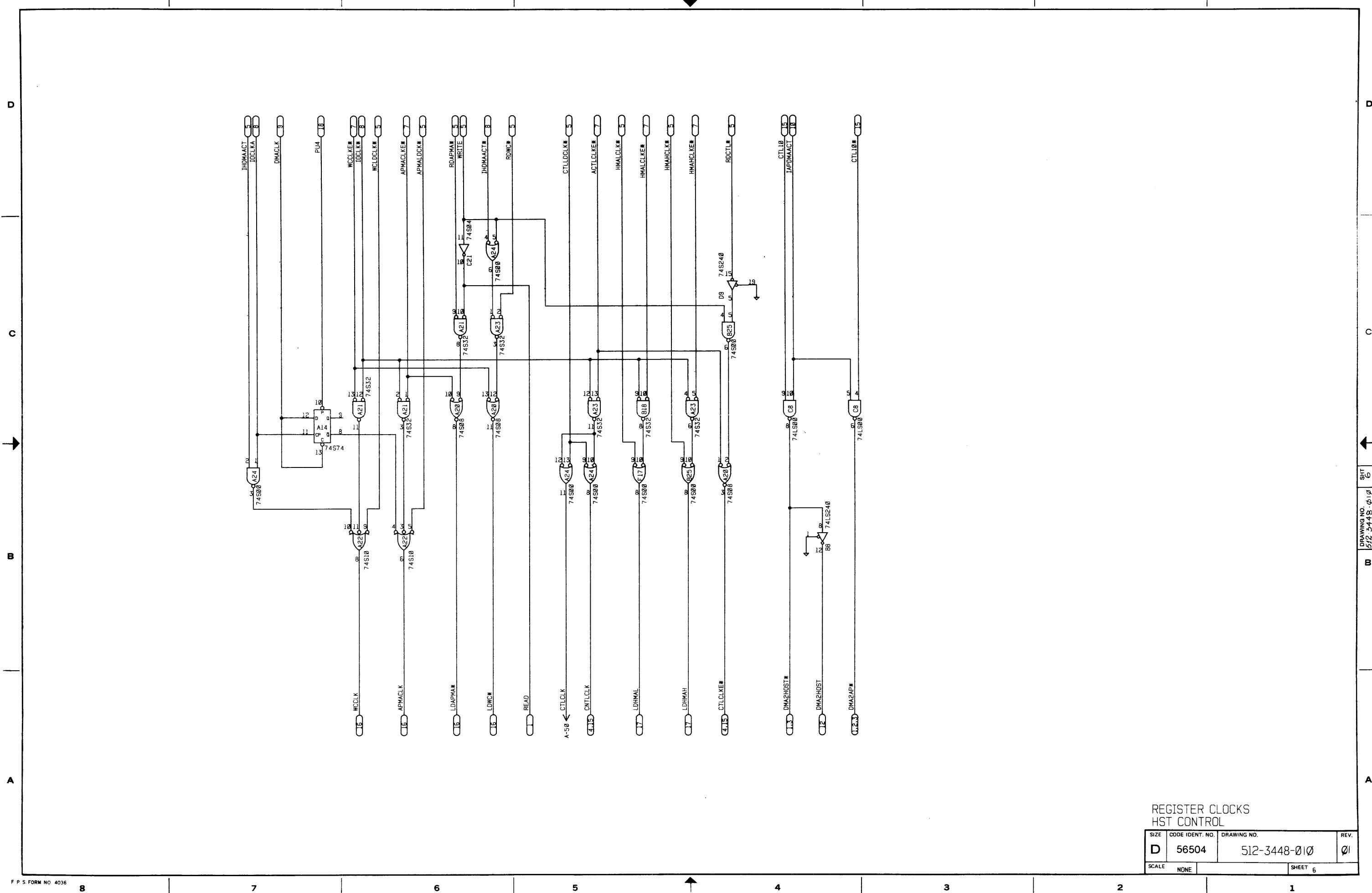


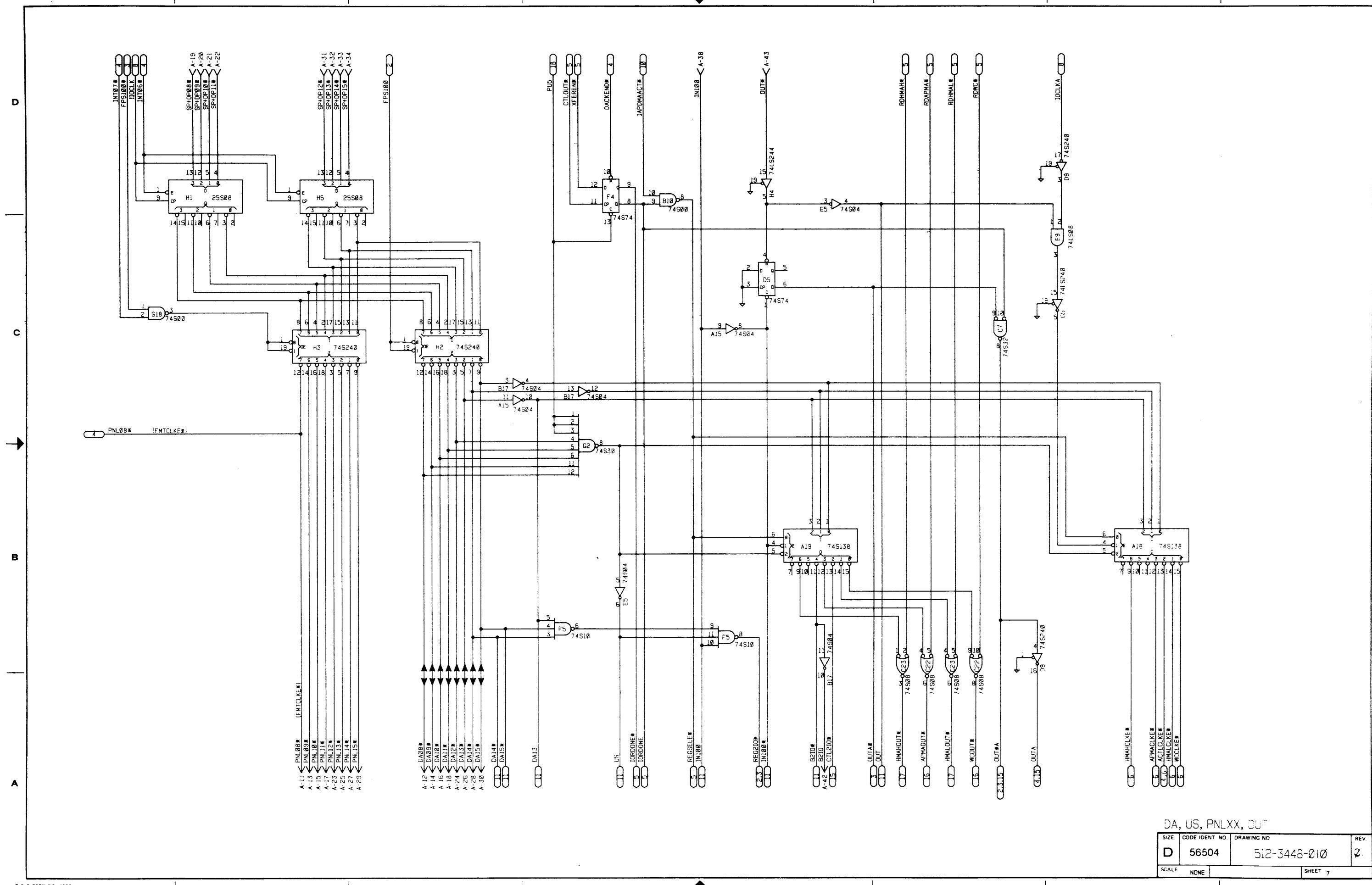
HSTXX, HDXX,
IDENT, DP, IO, RGBS

ZE	CODE IDENT. NO.	DRAWING NO.	REV.
	56504	512-3448-010	01
ALE	NONE	SHEET 3	



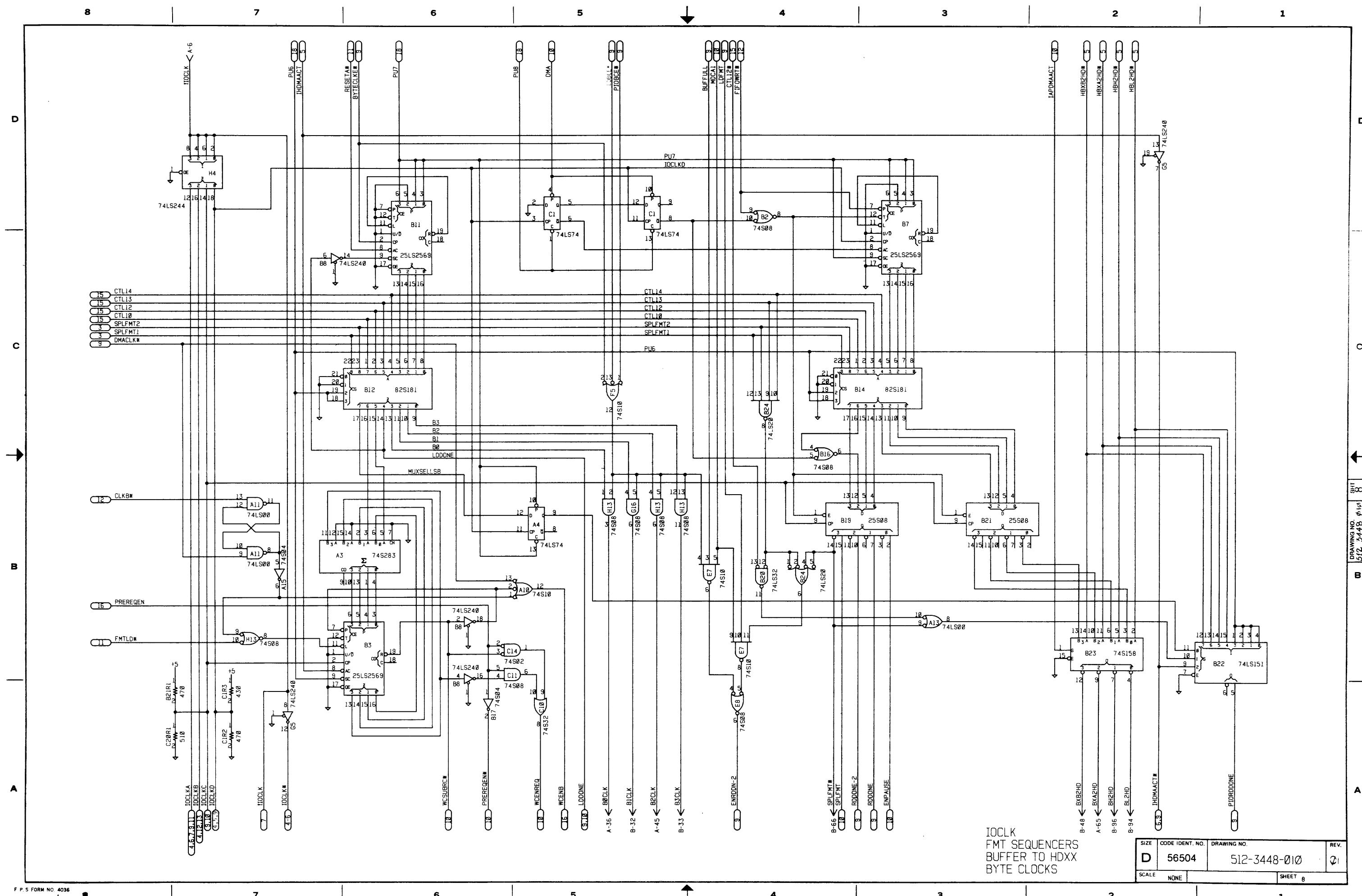






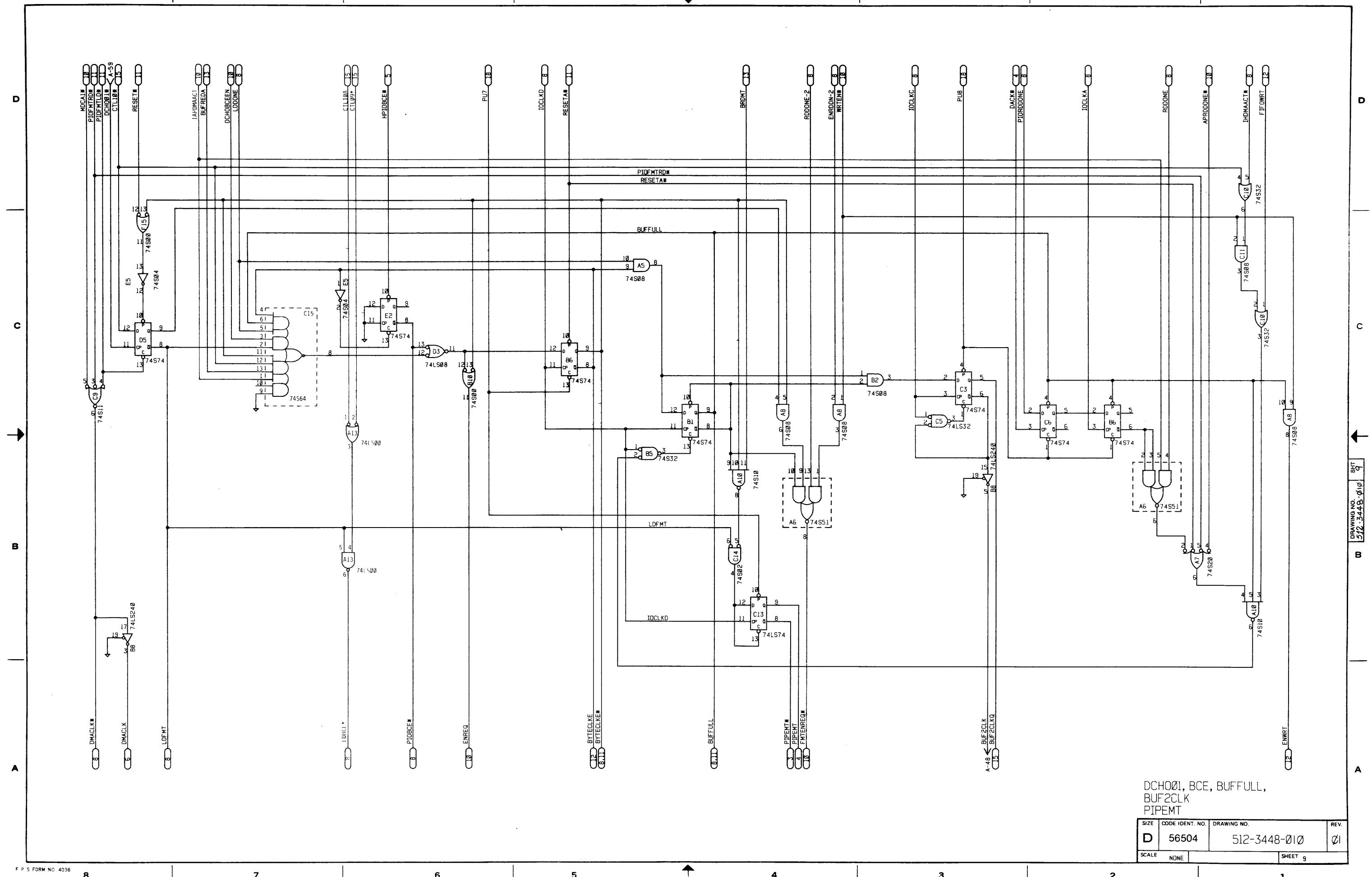
DA, US, PNLXX, CUT

SIZE	CODE IDENT NO.	DRAWING NO.	REV.
D	56504	512-3448-010	Z
SCALE	NONE	SHEET 7	



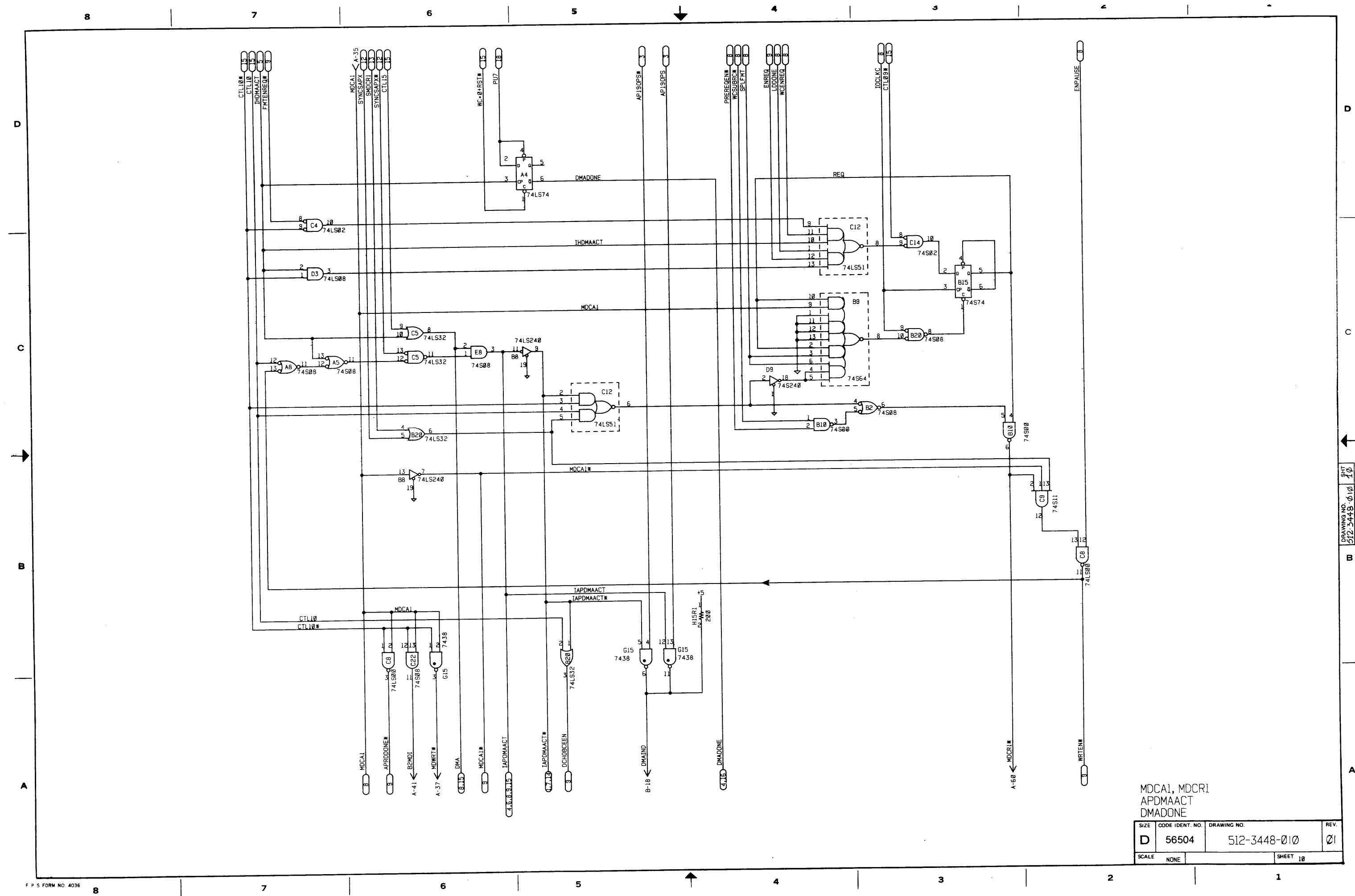
IOCLK
FMT SEQUENCERS
BUFFER TO HDXX
BYTE CLOCKS

SIZE	CODE IDENT. NO.	DRAWING NO.	REV.
	56504	512-3448-010	01
SCALE	NONE	SHEET	8



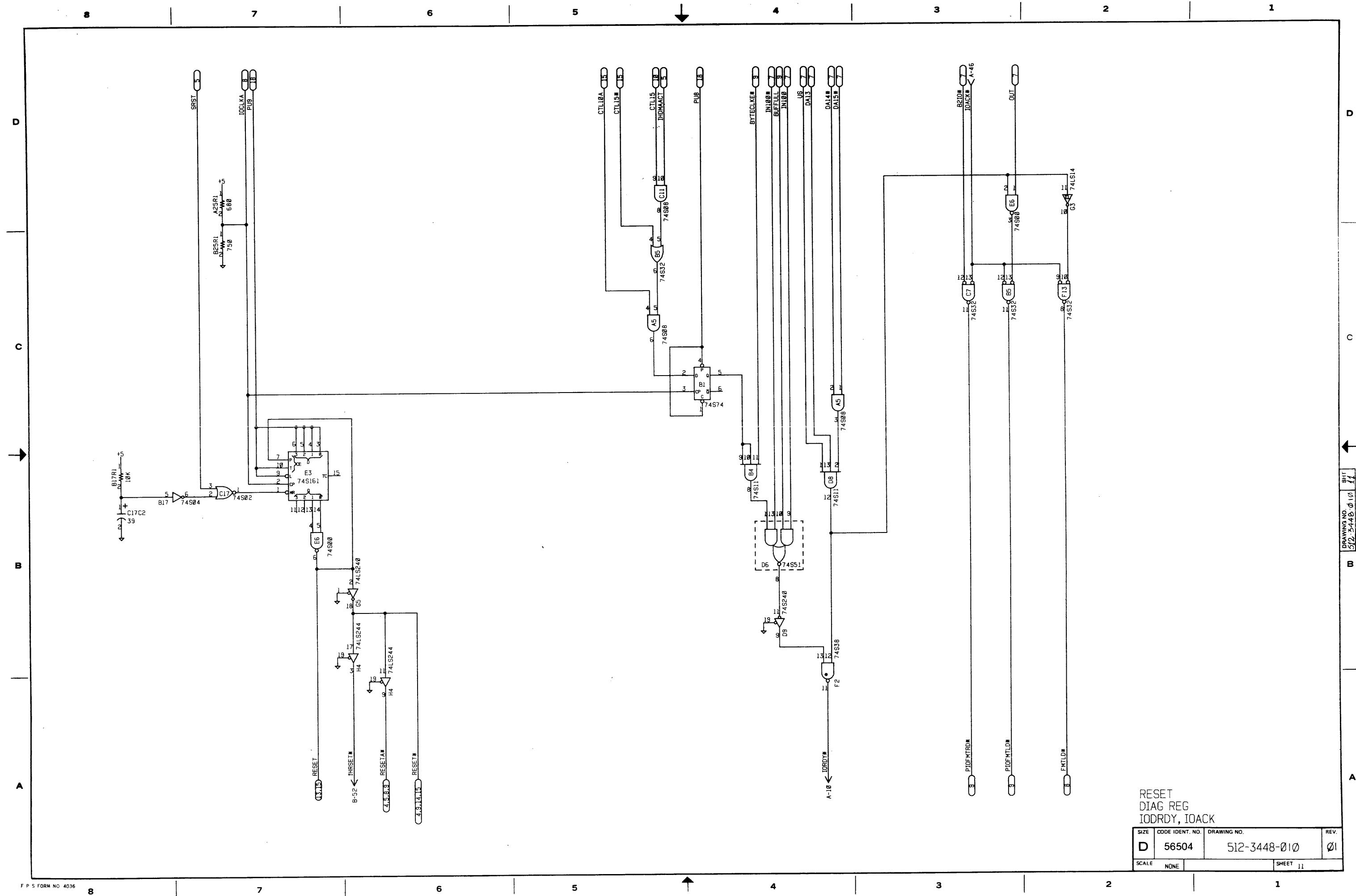
DCH001, BCE, BUFFULL,
BUF2CLK
PIPEMT

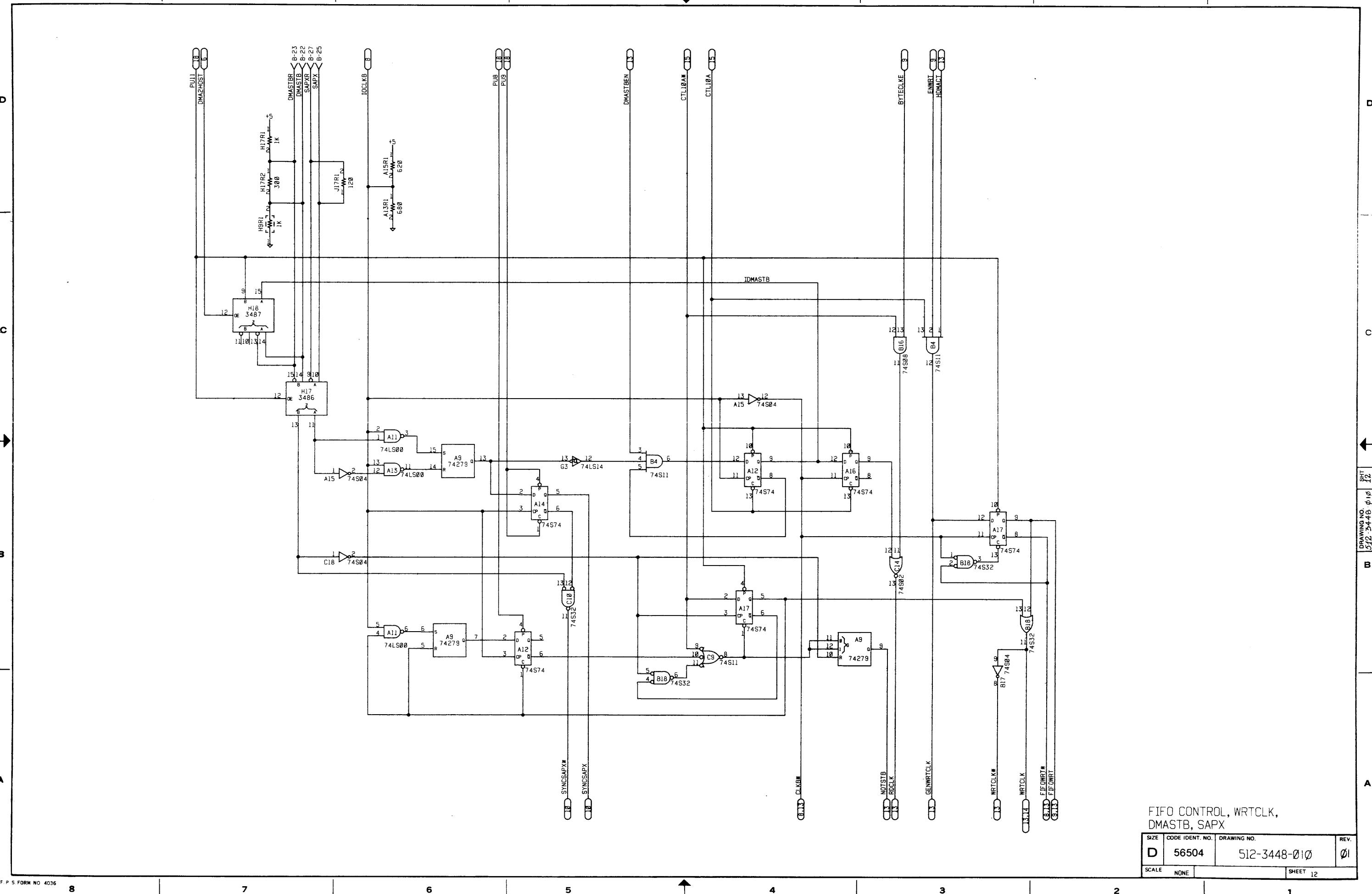
SIZE D	CODE IDENT. NO. 56504	DRAWING NO. 512-3448-010	REV. 01
SCALE NONE			SHEET 9

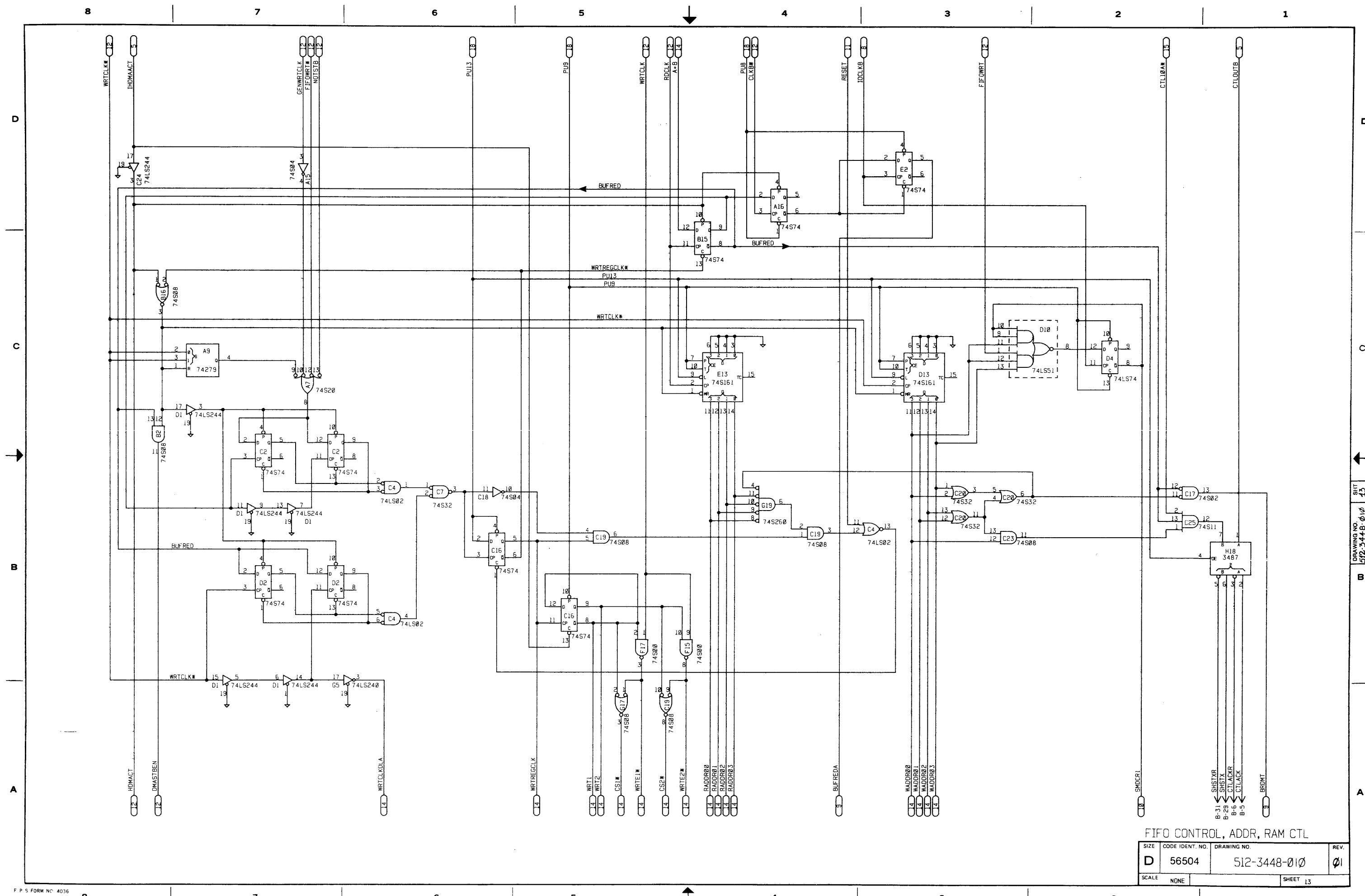


MDCA1, MDCR1
APDMAACT
OMADONE

SIZE D	CODE IDENT. NO. 56504	DRAWING NO. 512-3448-010	REV. 01
SCALE	NONE	SHEET 10	

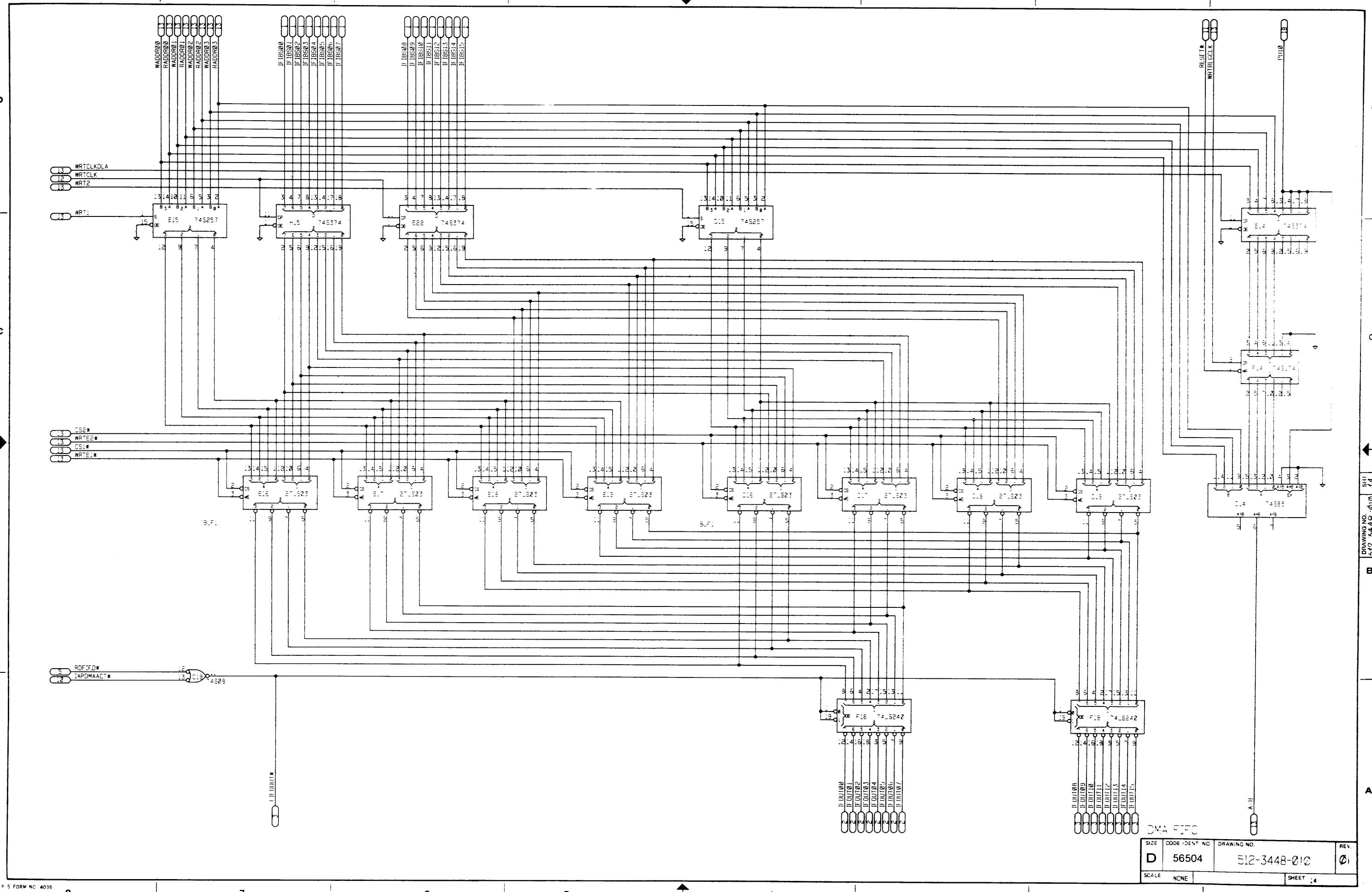






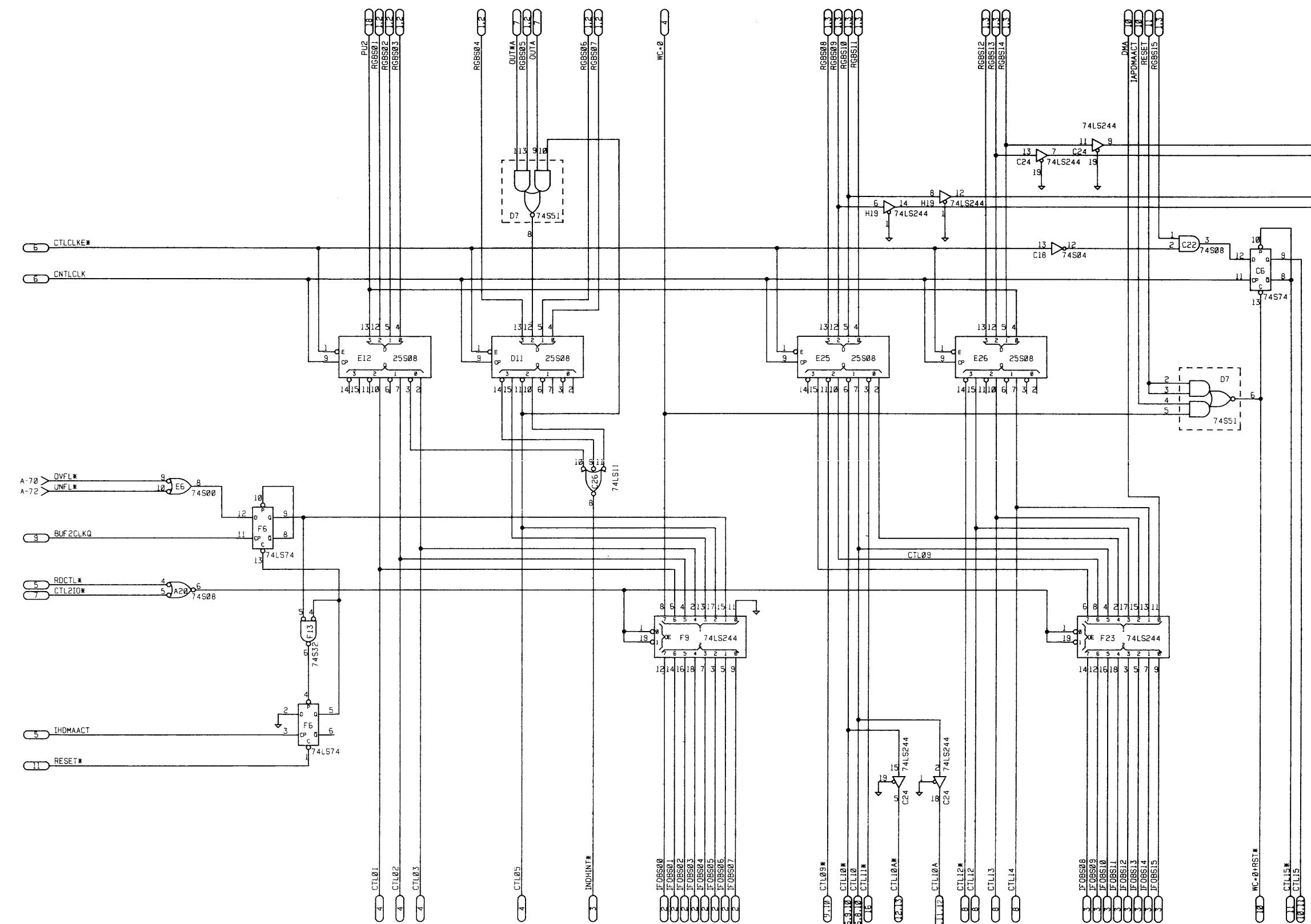
FIFO CONTROL, ADDR, RAM CTL

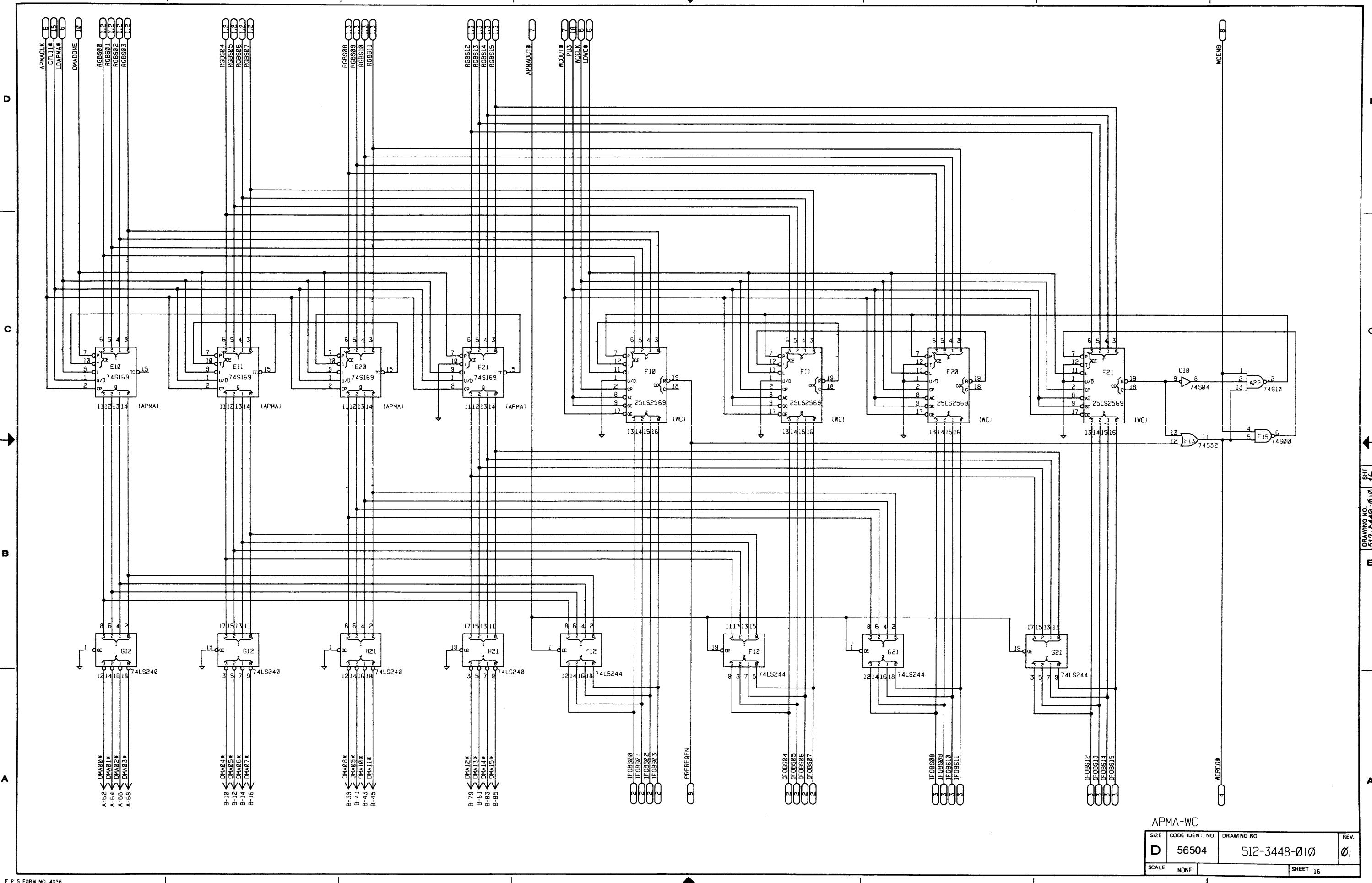
SIZE D	CODE IDENT. NO. 56504	DRAWING NO. 512-3448-010	REV. 01
SCALE NONE			SHEET 13

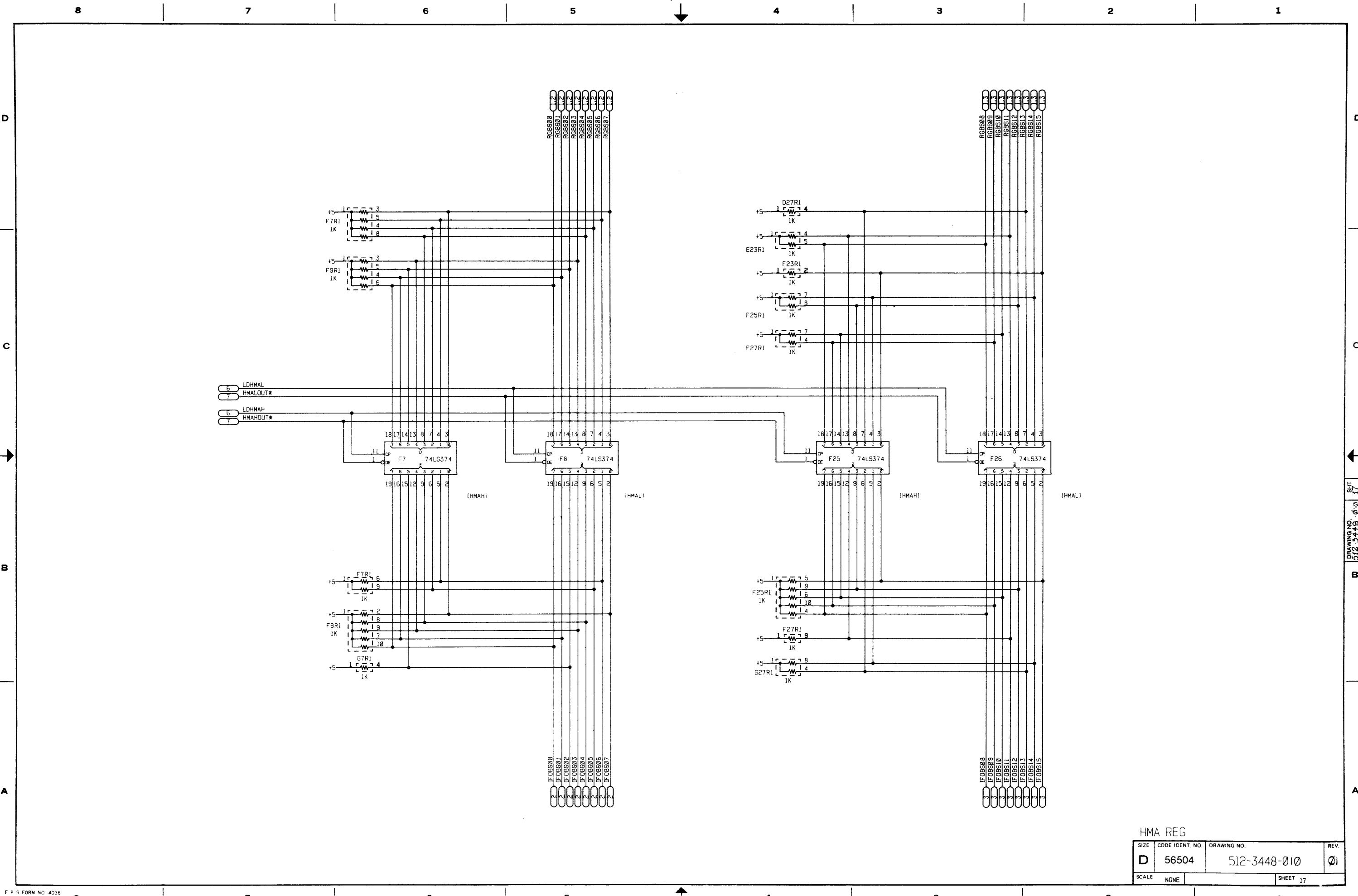


8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

D







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5

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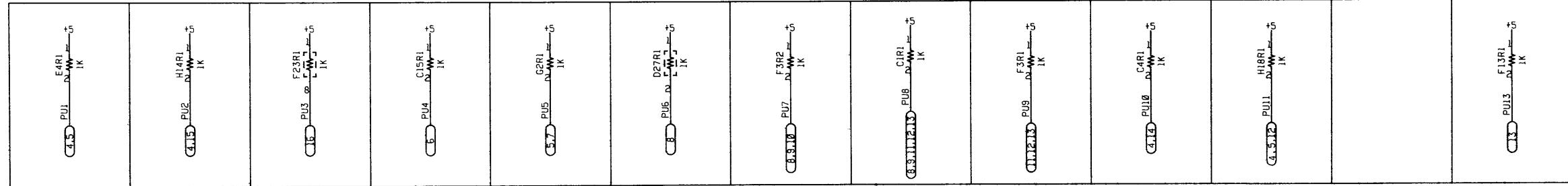
3

2

1

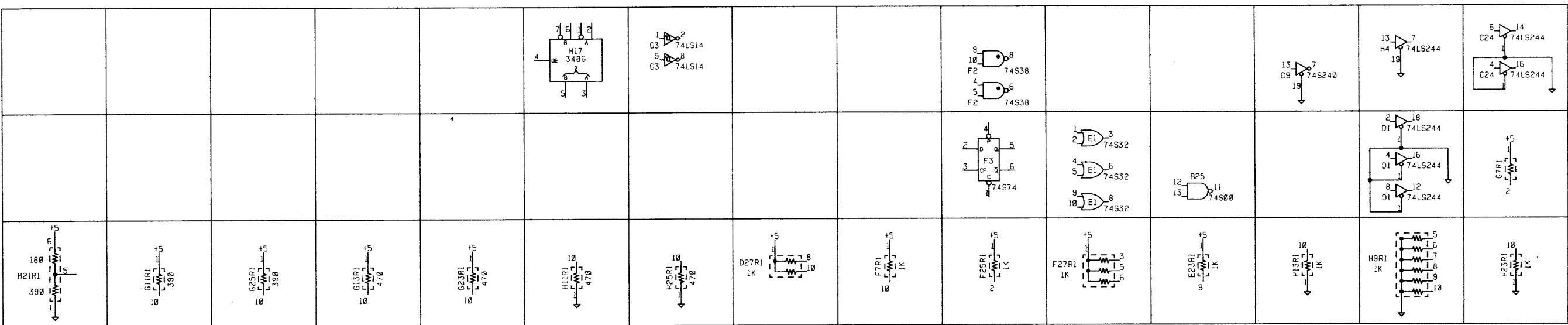
D

D



C

C



B

B

A

A

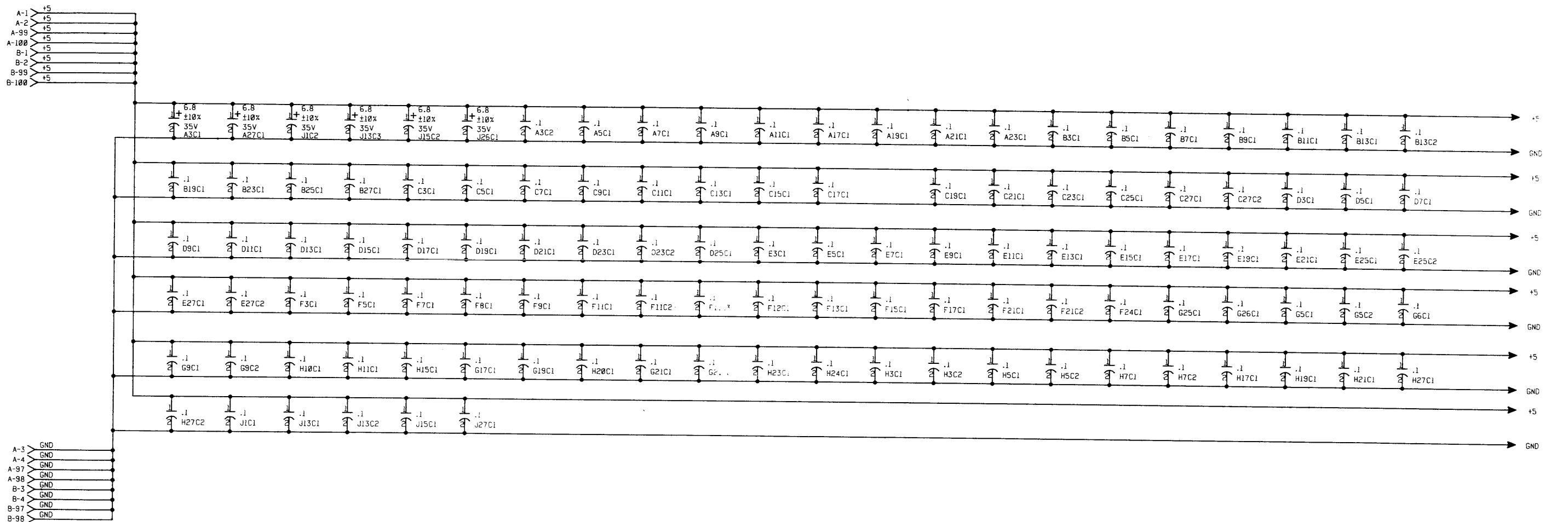
SPARES AND PULLUPS

SIZE	CODE IDENT. NO.	DRAWING NO.	REV.
D	56504	512-3448-010	Ø1
SCALE	NONE		SHEET 18

D

A-1 +5
A-2 +5
A-99 +5
A-100 +5
B-1 +5
B-2 +5
B-99 +5
B-100 +5

C



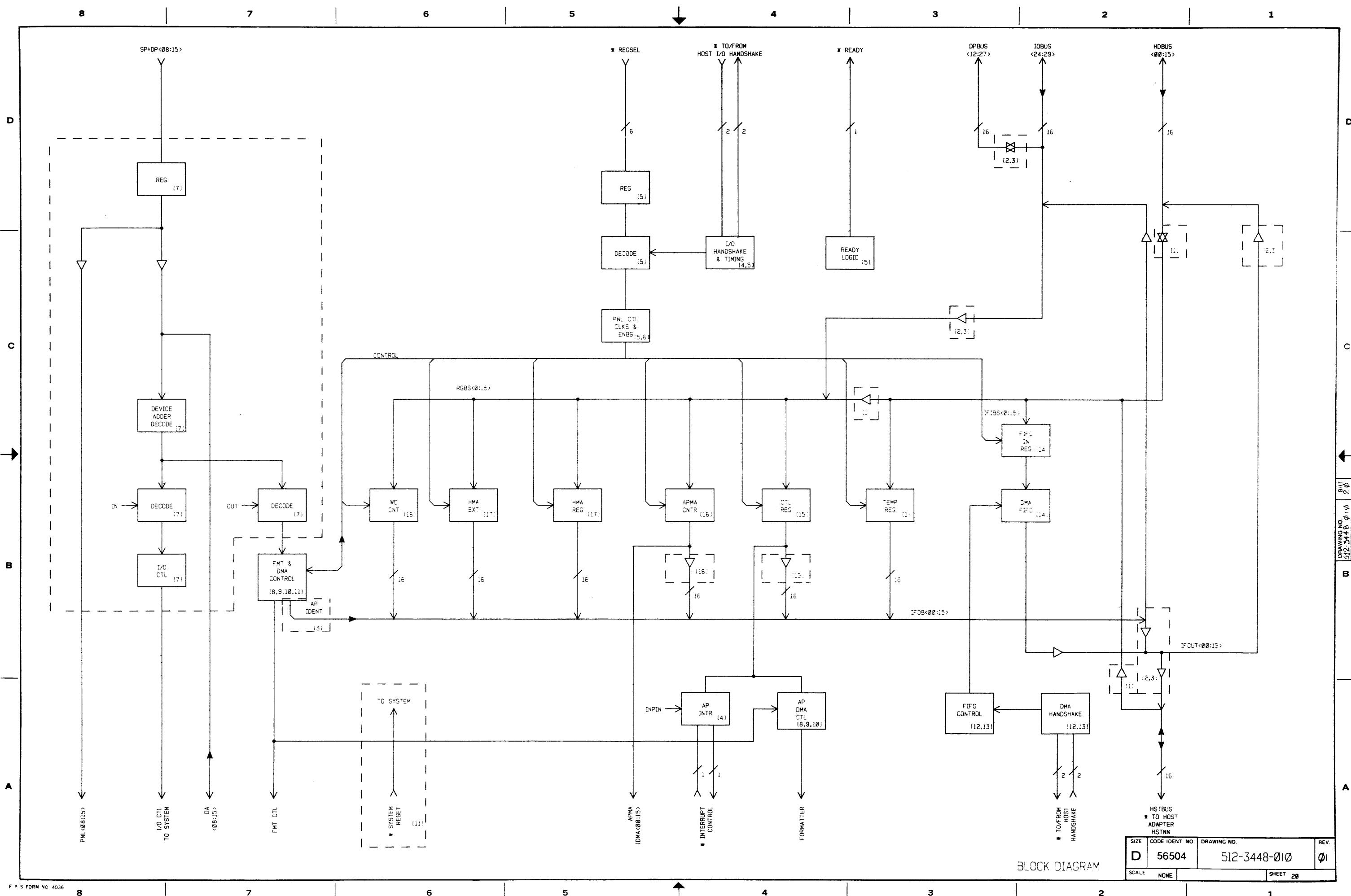
B

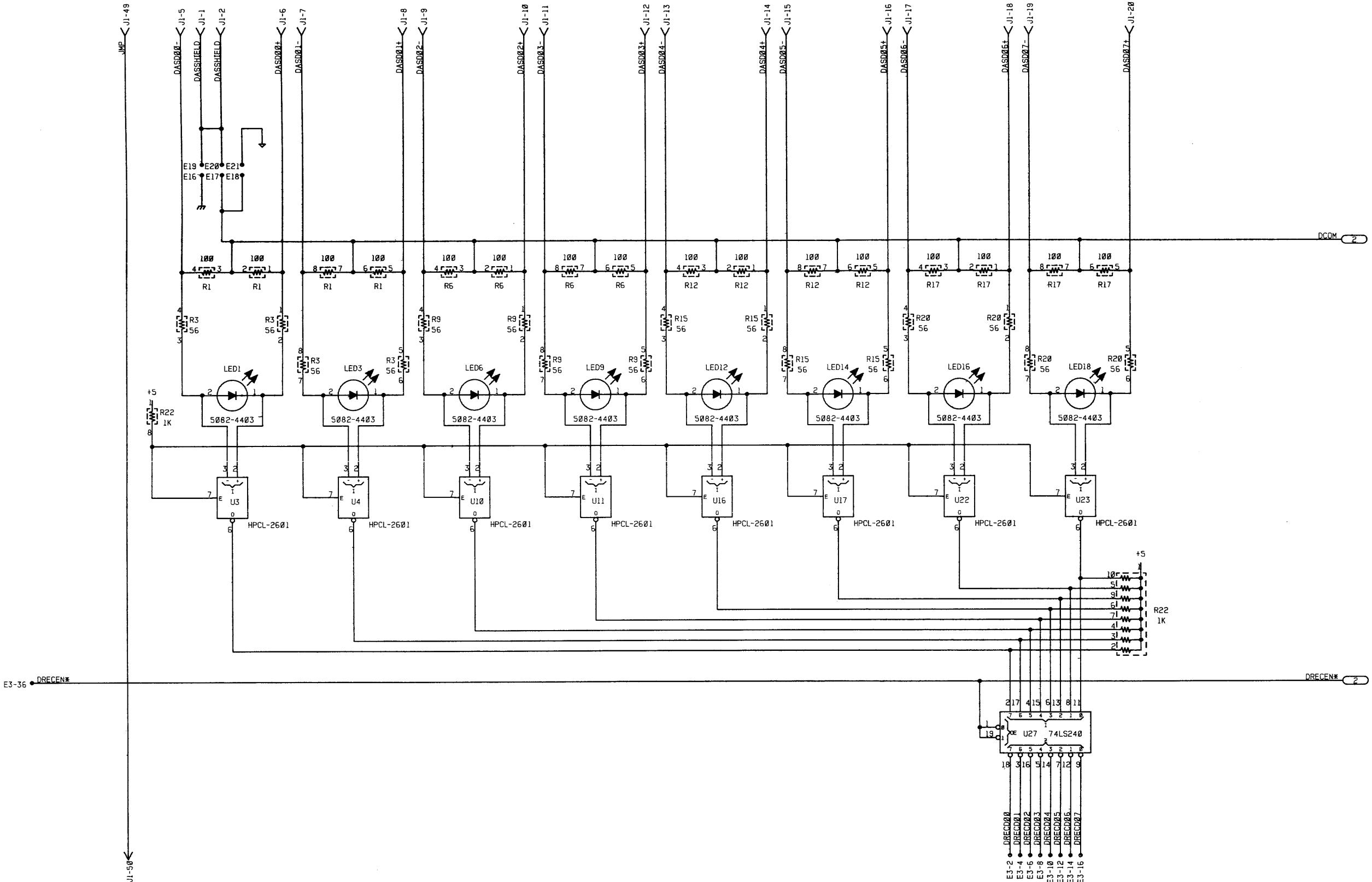
GND
A-3 GND
A-4 GND
A-9 GND
B-3 GND
B-4 GND
B-97 GND
B-98 GND

DRAWING NO. 512-3448-010
REV. 01
SHT 19

FILTER CAPACITORS

SIZE	CODE IDENT. NO.	DRAWING NO.
D	56504	512-3448-010
SCALE	NONE	REV. 01





REVISIONS		DESCRIPTION	ZONE	APVD / DATE	CHK. / DATE
REV.	AUTH.				
03	EN #069	LEVEL 1 RELEASE, NEW COMPLETED 475 OII SCHEM. 106510	10	6/24/81 10-11-81	Ko-2
04	EN #136	CHANGE NUMBER ON DUPLICATE WIRING POINTS TO E23 & E24	10	6/24/81 10-12-81	Ko-2
05	ECC 82056	LEVEL 2 RELEASE	10	2/25/82 2-25-82	Ko-2
A	ECO 82806	LEVEL 3 RELEASE	10	11-22-82 11-22-82	Ko-2
B	ECO 83033	CHANGE STATUS CODE	10	3-8-83 3-8-83	Ko-2

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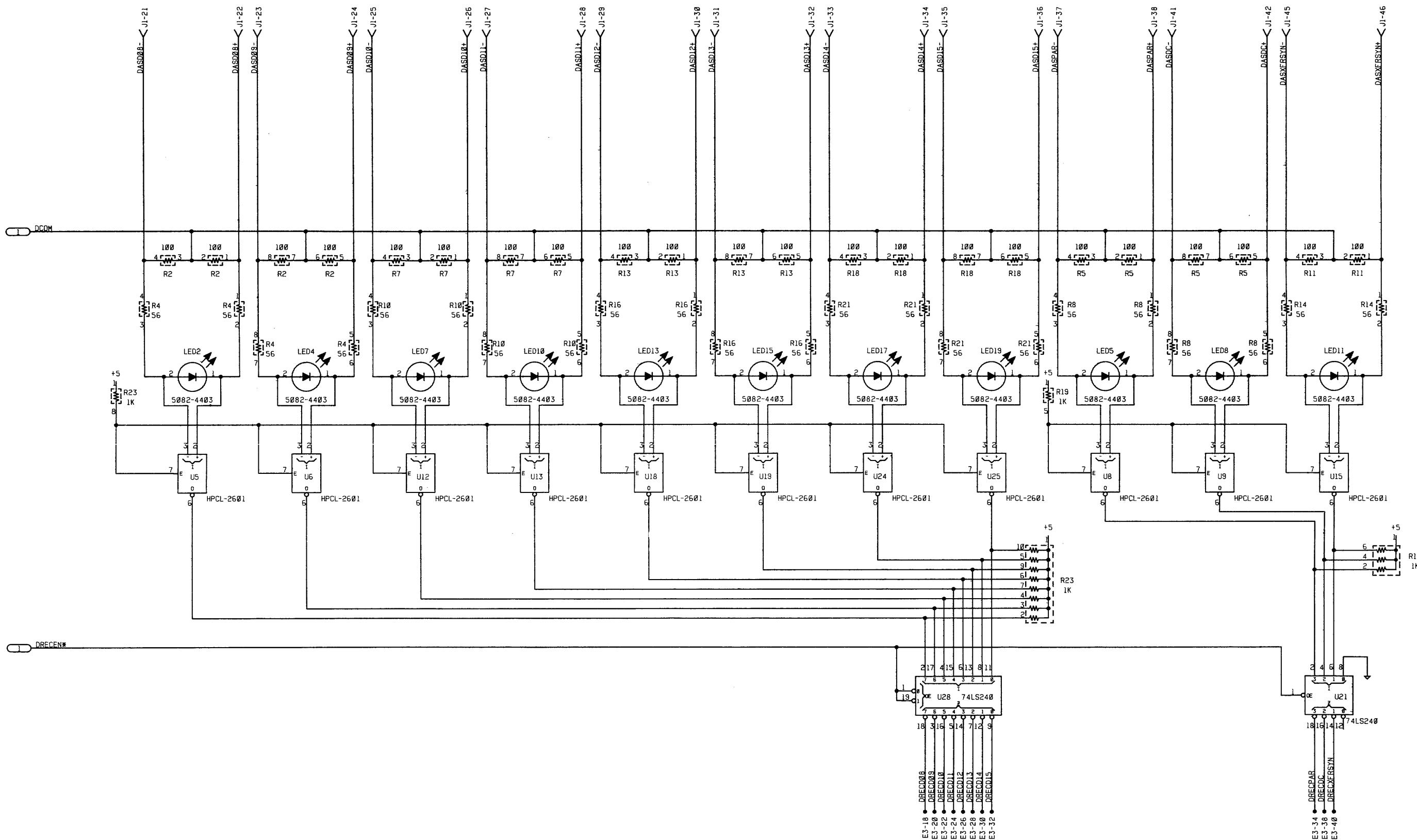
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Contractor: FLOATING POINT SYSTEMS, INC.

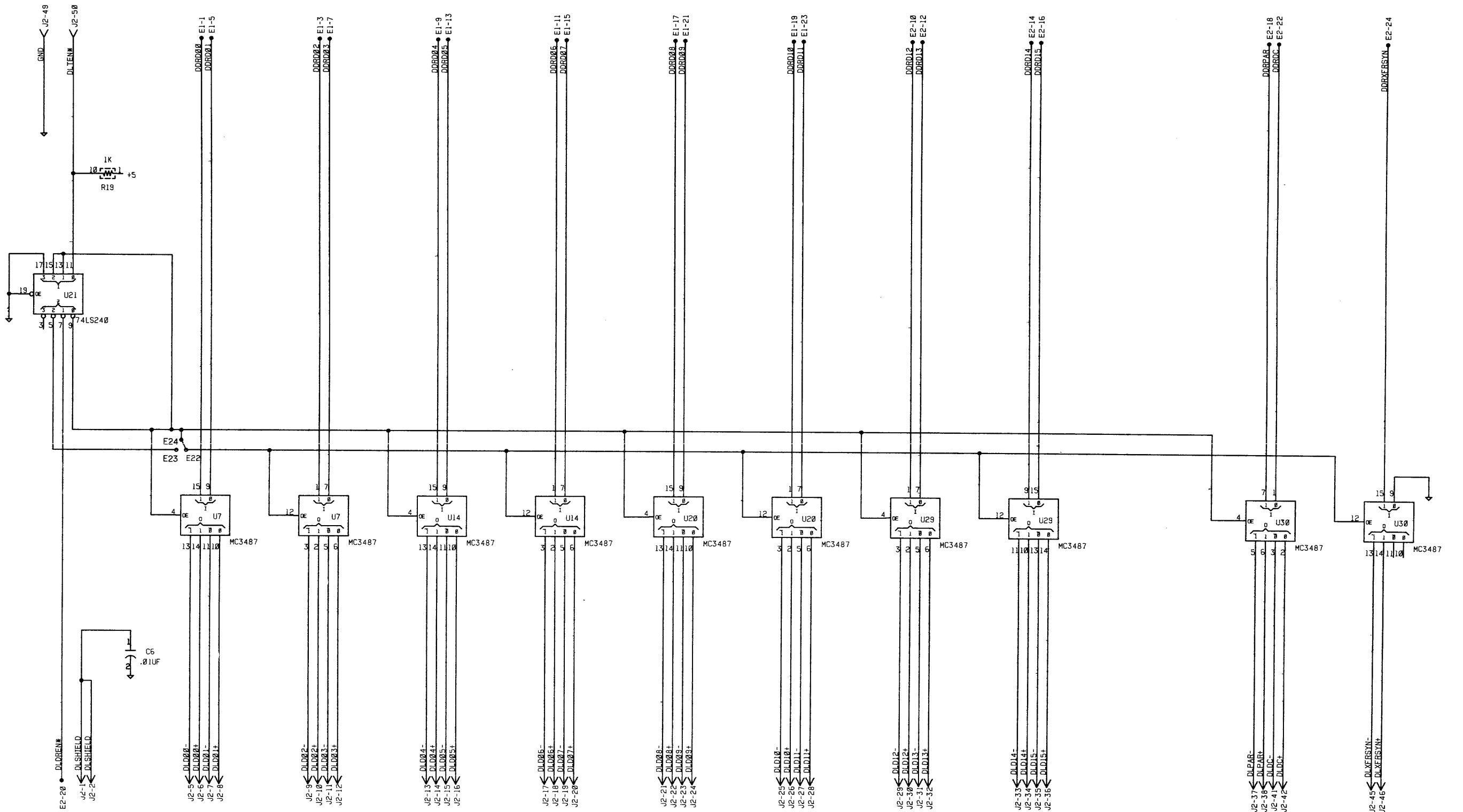
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PROJ. ENG.	DATE	
DRAWN BY	11/29/82	
C.R.D.	5/11/81	
CHECK BY	DATE	
Steve Schmidt	5/14/81	
MG. ENG.	DATE	
Z. Mayans	11/29/82	
SHEET	1 OF 4	
SIZE	CODE IDENT. NO.	DRAWING NO.
D	56504	512-3475-000
REV.	B	
SCALE NONE		

FLOATING POINT SYSTEMS, INC.	PO Box 23480 Portland OR 97223	
DRAWING TITLE	SCHEMATIC, ECB,	
MF. ENG.	475	
	OPTICAL ISOLATOR INTERCONNECT, OII FPS-100	
SIZE	CODE IDENT. NO.	DRAWING NO.
D	56504	512-3475-000
REV.	B	
SCALE NONE		
SHEET	1 OF 4	



SIZE	CODE IDENT. NO.	DRAWING NO.
D	56504	512-3475-000
SCALE	NONE	REV. B
SHEET 2		



F. P. S. FORM NO. 4036

1

10

1

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1

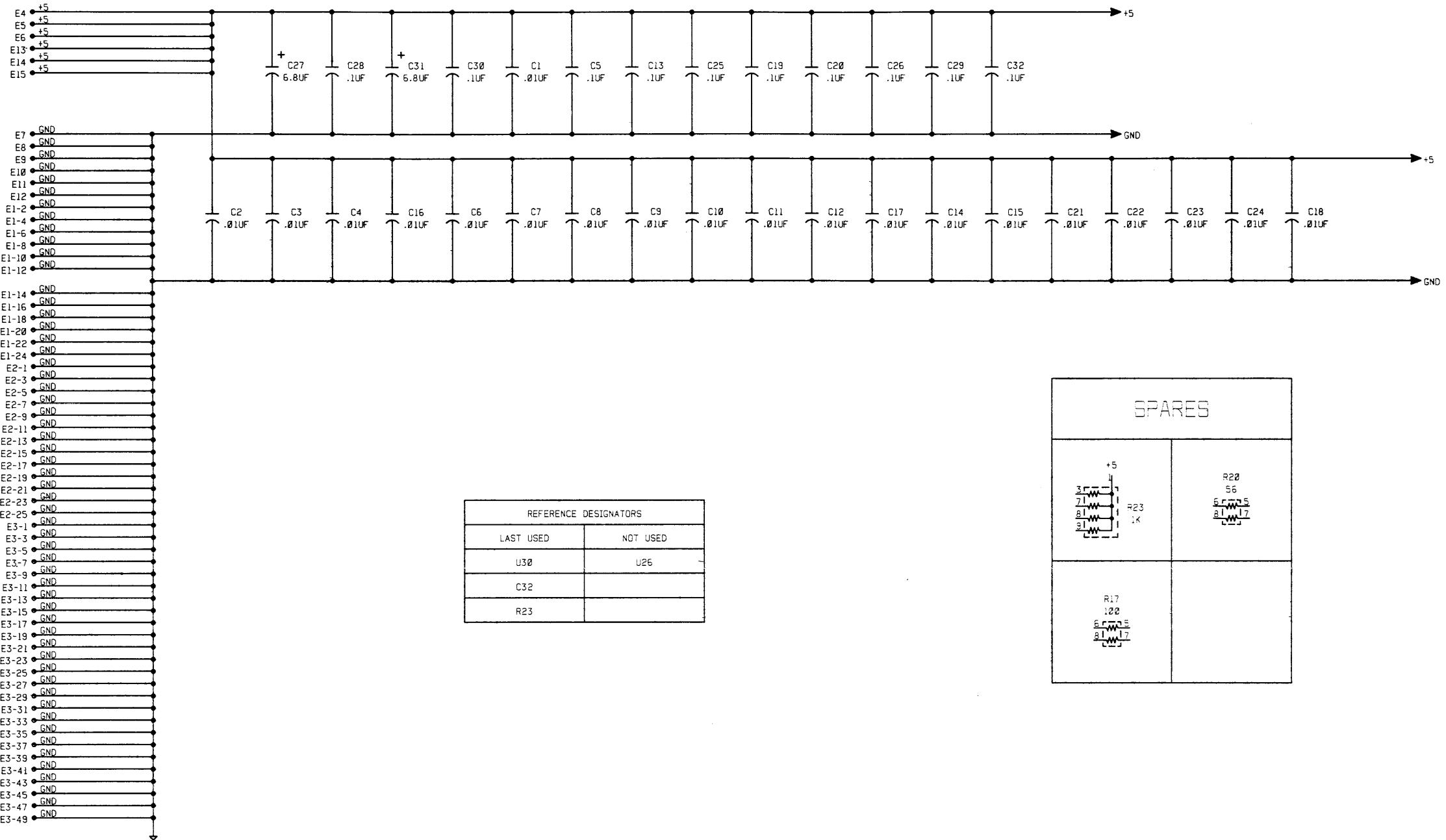
1

10

1

5

SIZE D	CODE IDENT. NO. 56504	DRAWING NO. 512-3475-000	REV. B
SCALE	NONE	SHEET 3	



SIZE	CODE IDENT. NO.	DRAWING NO.
D	56504	512-3475-322
SCALE	NONE	SHEET 4

NOTE: UNLESS OTHERWISE SPECIFIED

1. ALL RESISTOR VALUES ARE IN OHMS.
DISCRETES ARE ±5%, 1/4W.
SIPS ARE ±2%, 1/8W.

2. ALL CAPACITOR VALUES ARE IN MICROFARADS,
±80% -20%, 50V

3. PULLUP RESISTORS ARE INDICATED BY THE SYMBOL
AT APPROPRIATE LOCATIONS IN THE SCHEMATIC.
THESE LOCATIONS ARE CALLED OUT ON SHEET ONE
BY SHEET/ZONE.

4. ALL POSSIBLE CAPACITOR LOCATIONS
LISTED. FOR ACTUAL CAPACITOR QUANTITY,
VALUE, AND LOCATION INFORMATION, SEE
THE ASSEMBLY DRAWING.

5. NUMBERS IN PARENTHESES ON THE BLOCK DIAGRAM
(SHEETS 2,3) REFER TO SCHEMATIC SHEET NUMBERS.

6. IC POWER PINS ARE:

IC TYPE	TOTAL PINS	+5V	GND
ALL	14	14	7

IC TYPE	TOTAL PINS	+5V	GND
ALL	16	16	8

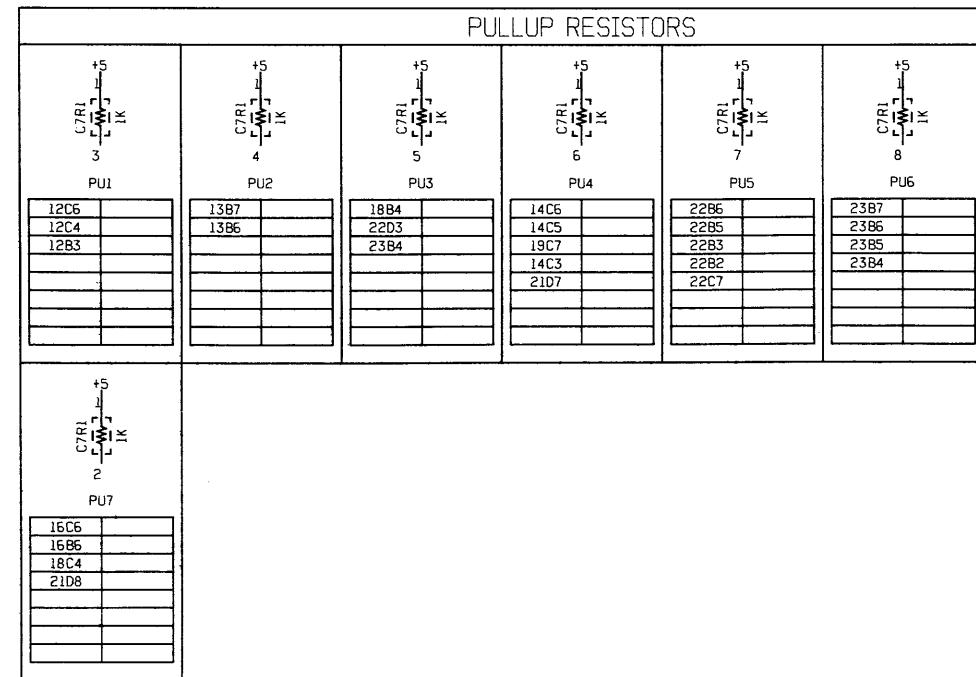
IC TYPE	TOTAL PINS	+5V	GND
ALL	20	20	10

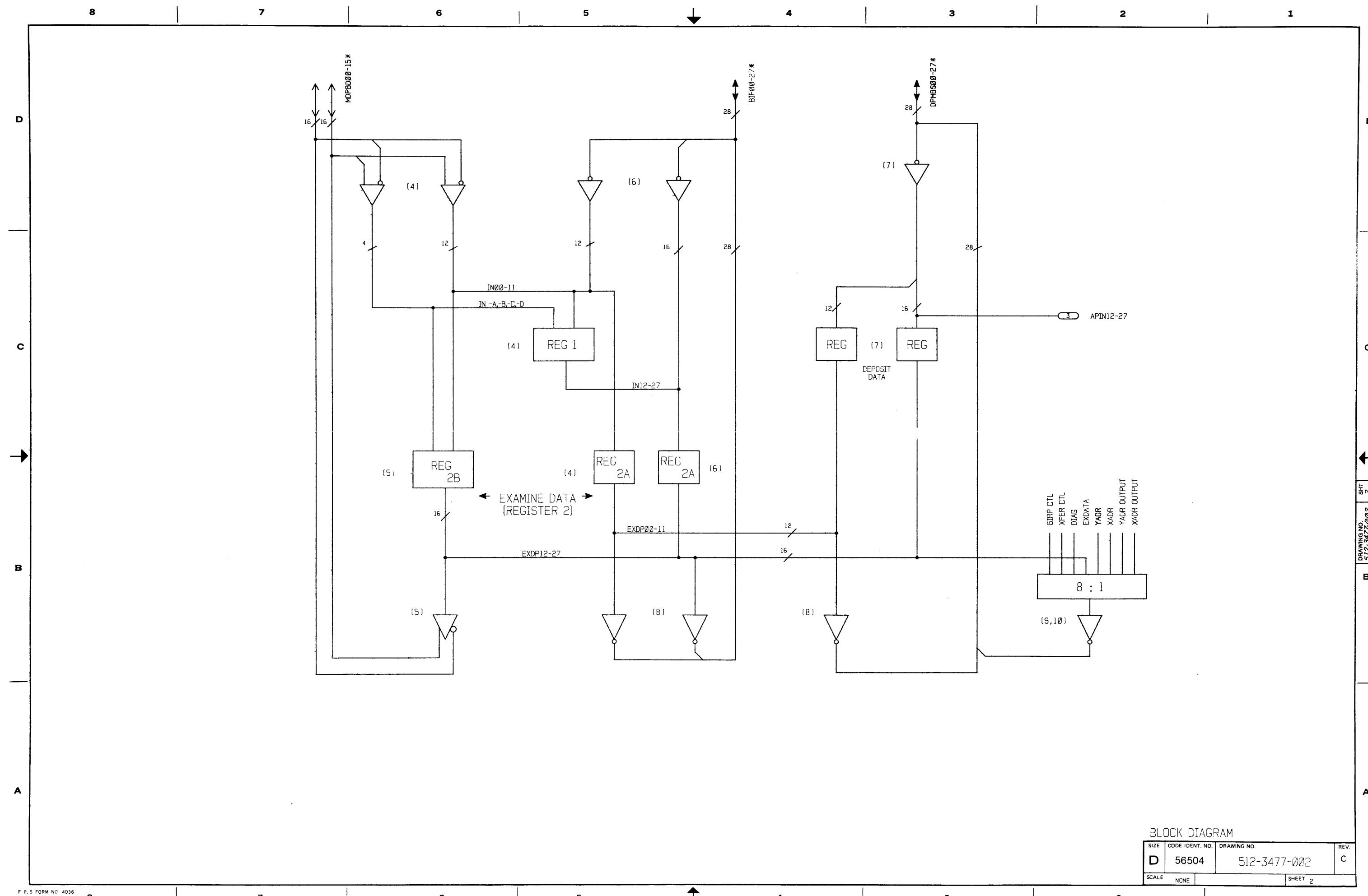
EXCEPT FOR :

IC TYPE	TOTAL PINS	+5V	GND
2148HL-3	18	18	9

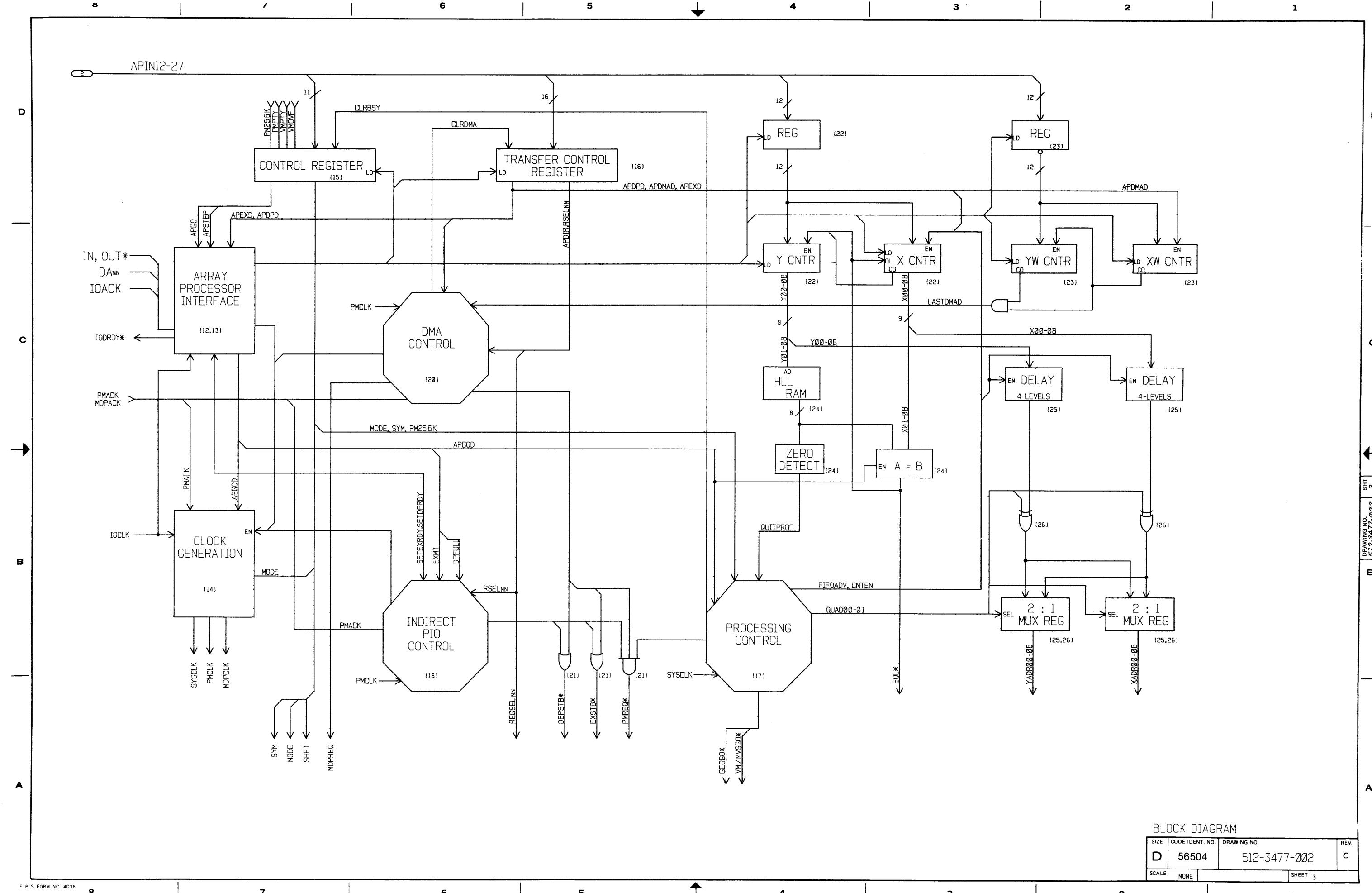
7. FOR RDCP-120 USE FPS P/N 210-7424-010.

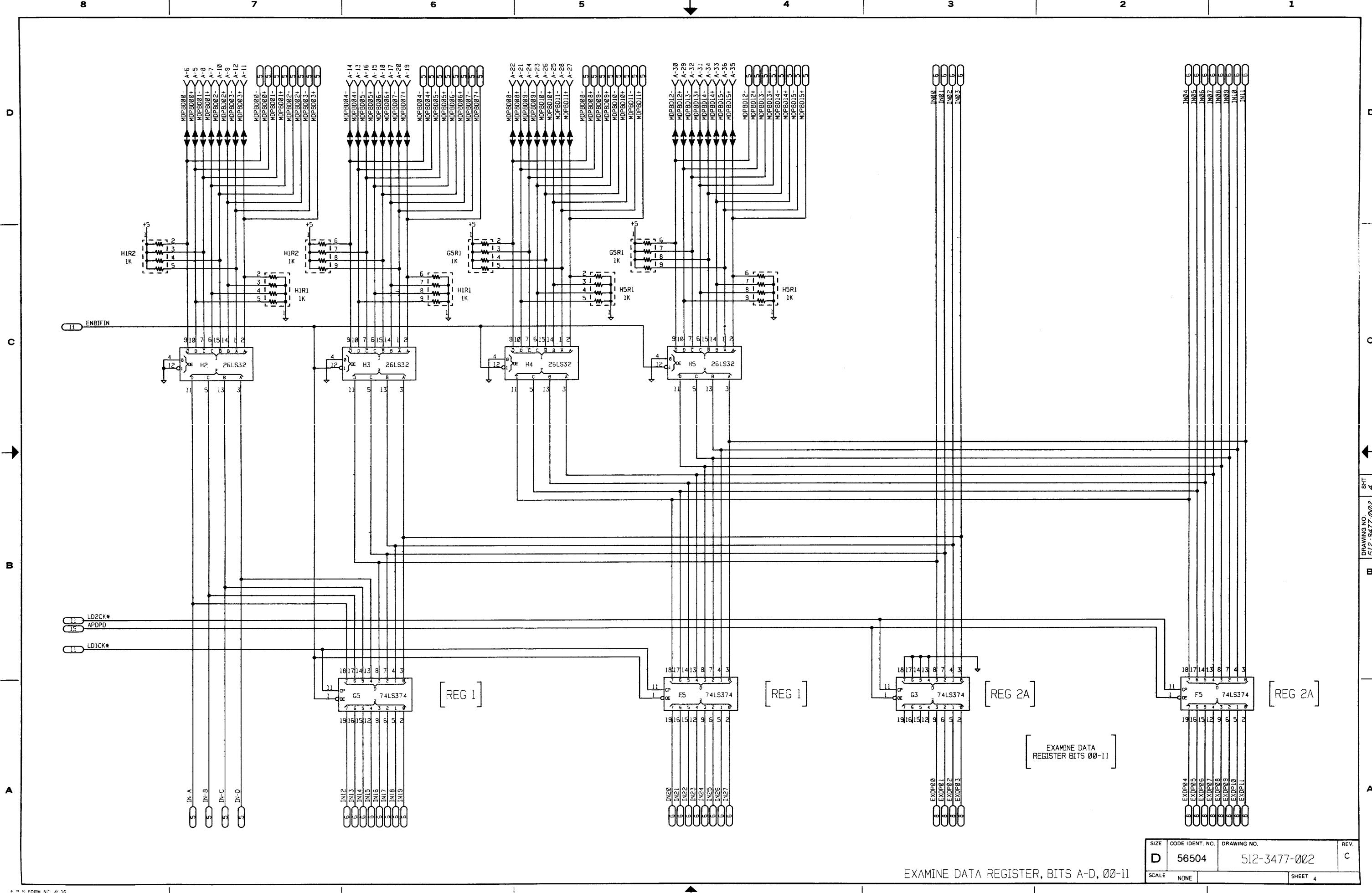
FOR RDCP-100 USE FPS P/N 215-7424-000

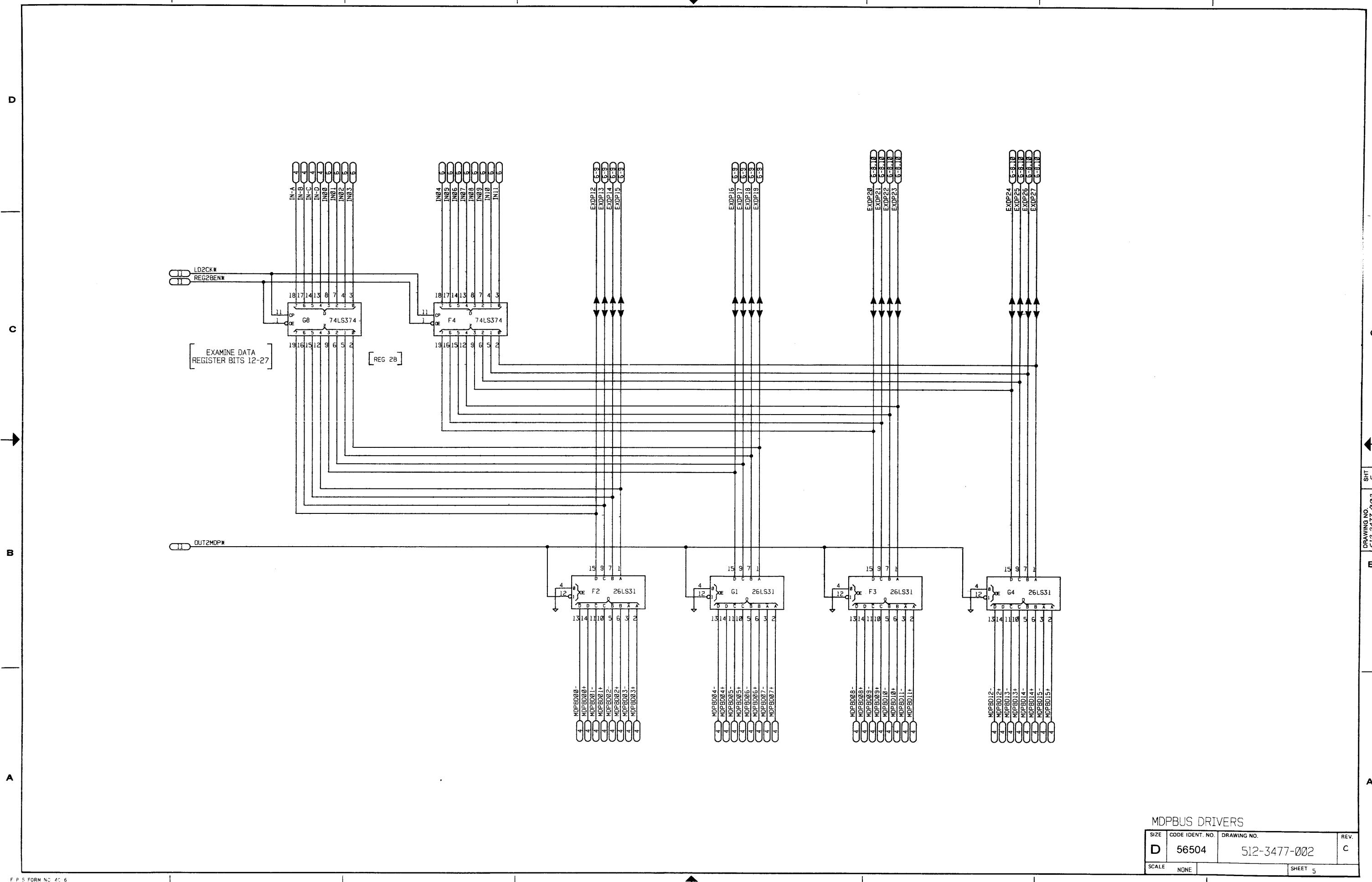


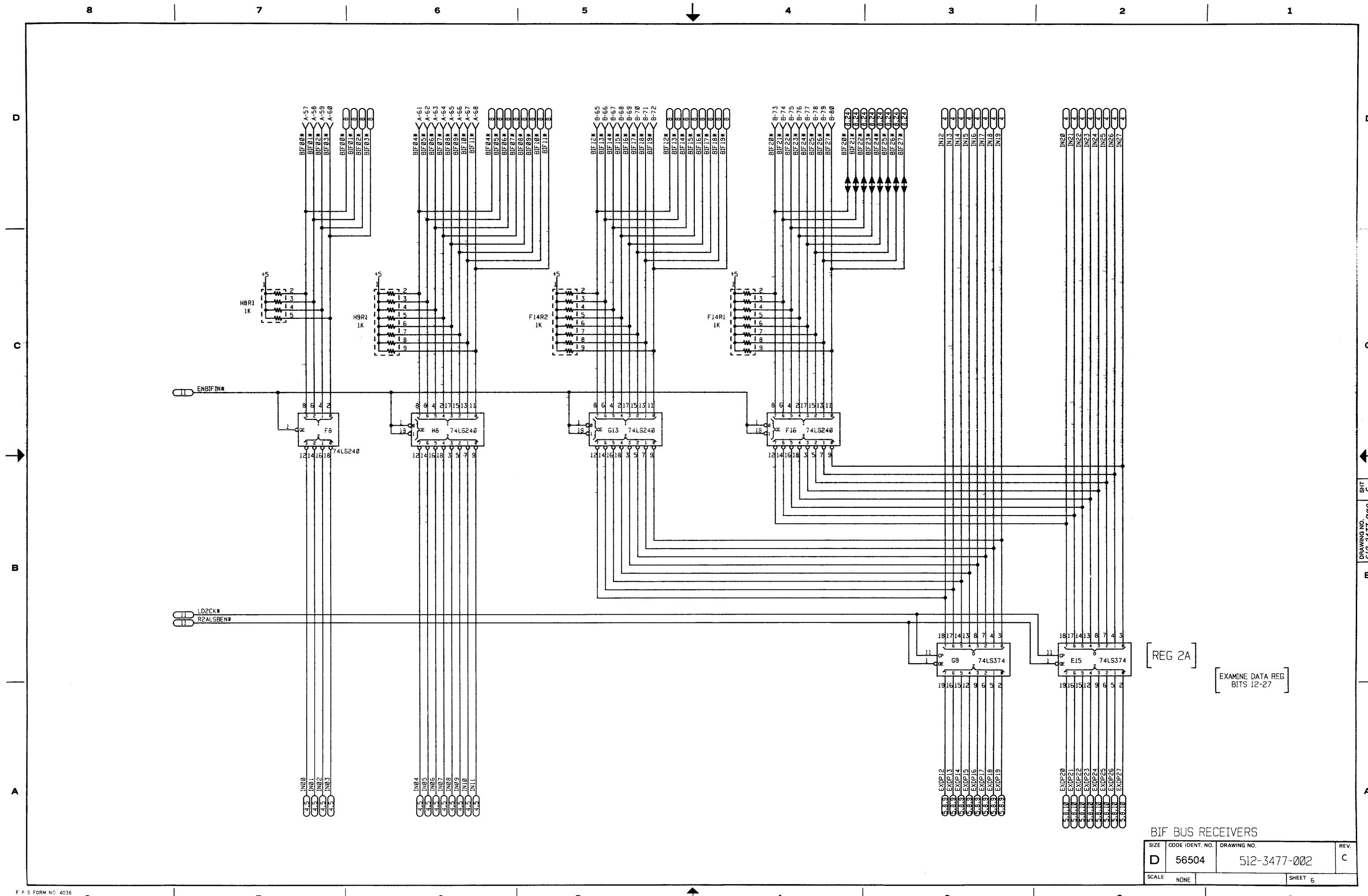


SIZE	CODE IDENT. NO.	DRAWING NO.
D	56504	512-3477-002
SCALE	NONE	SHEET 2









BIF BUS RECEIVERS

SIZE D	CODE IDENT. NO. 56504	DRAWING NO. 512-3477-002	REV. C
SCALE NONE		SHEET 6	

D

C

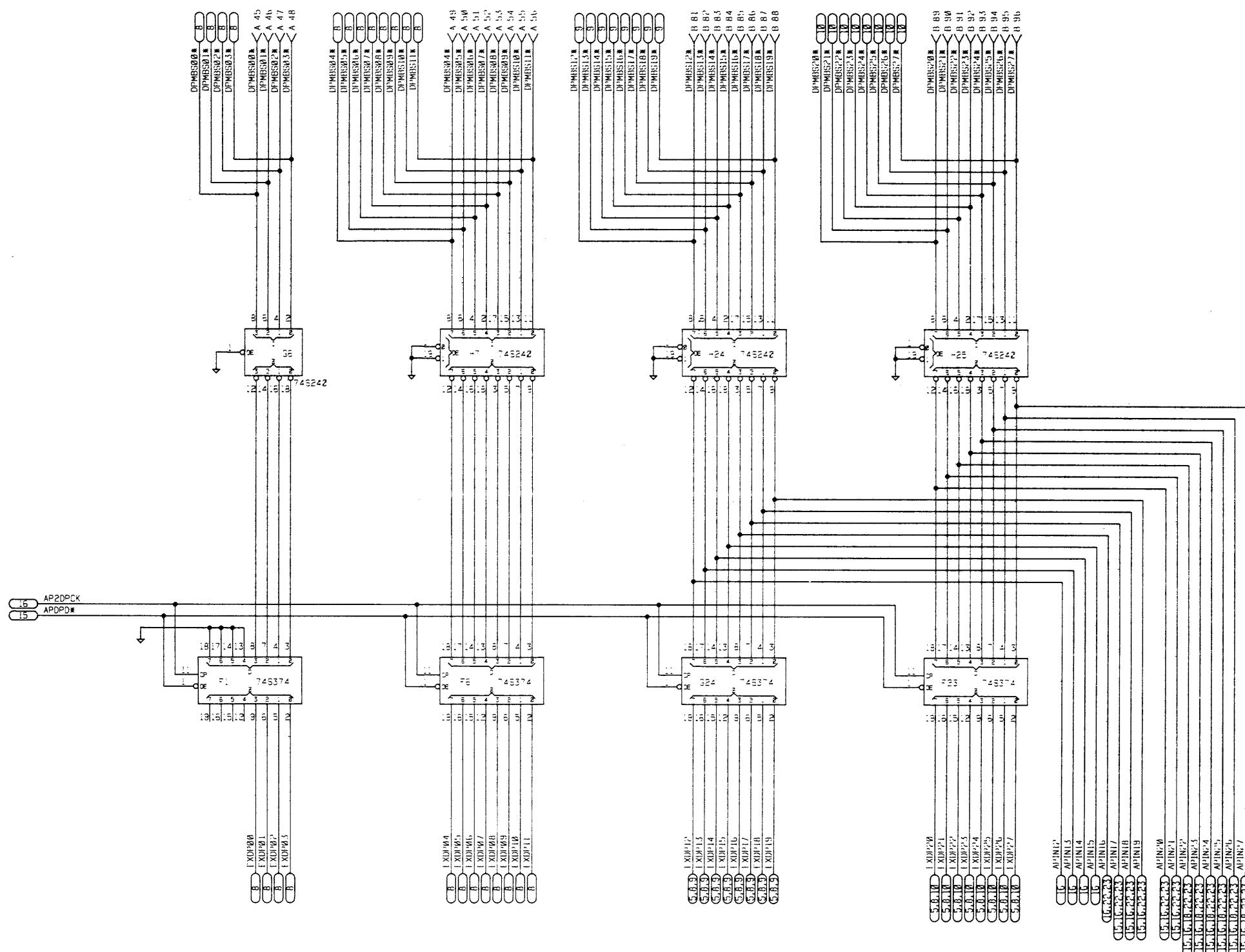
C

B

A

DRAWING NO. 512-3477-0022

REV. F



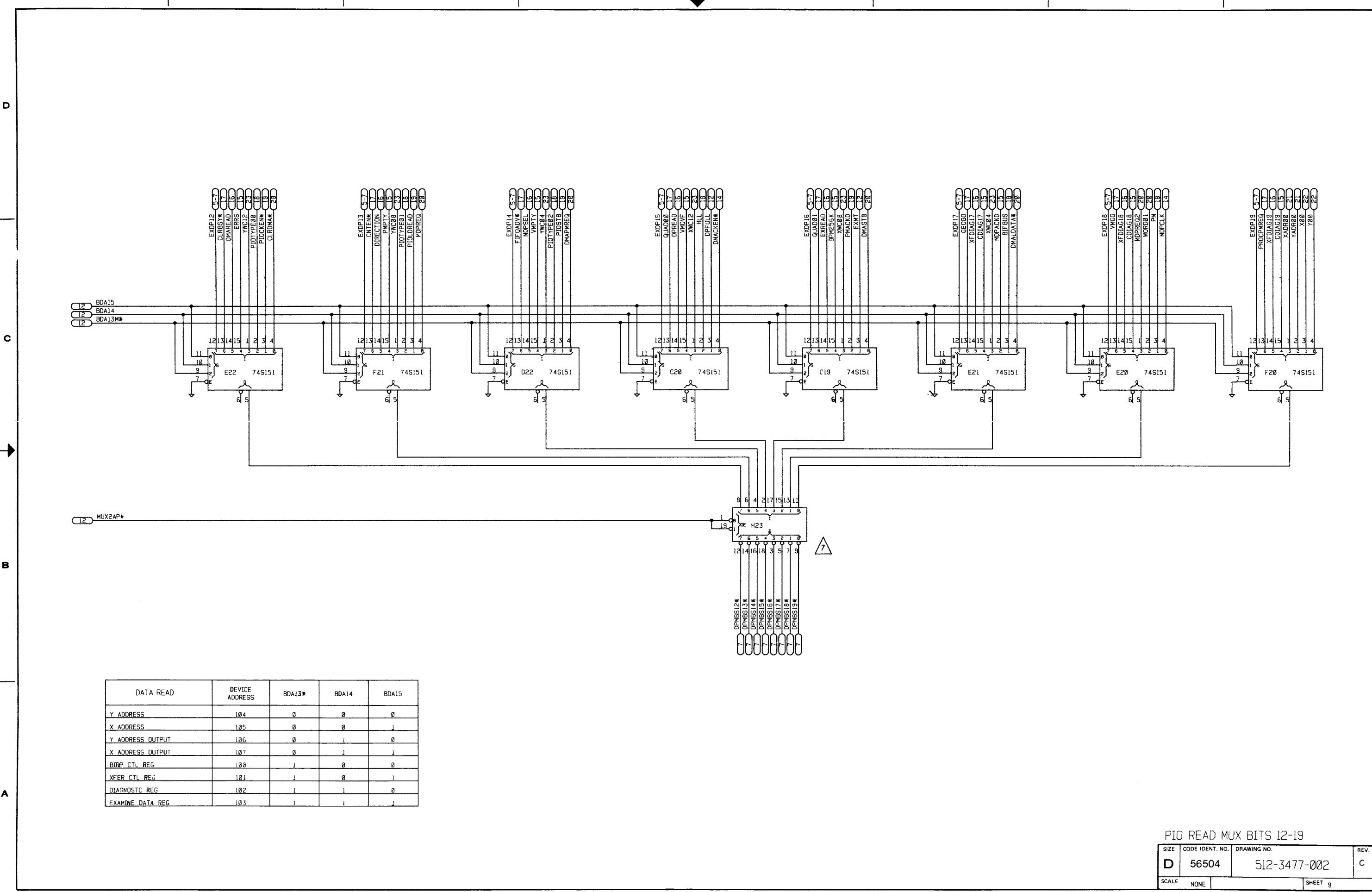
8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

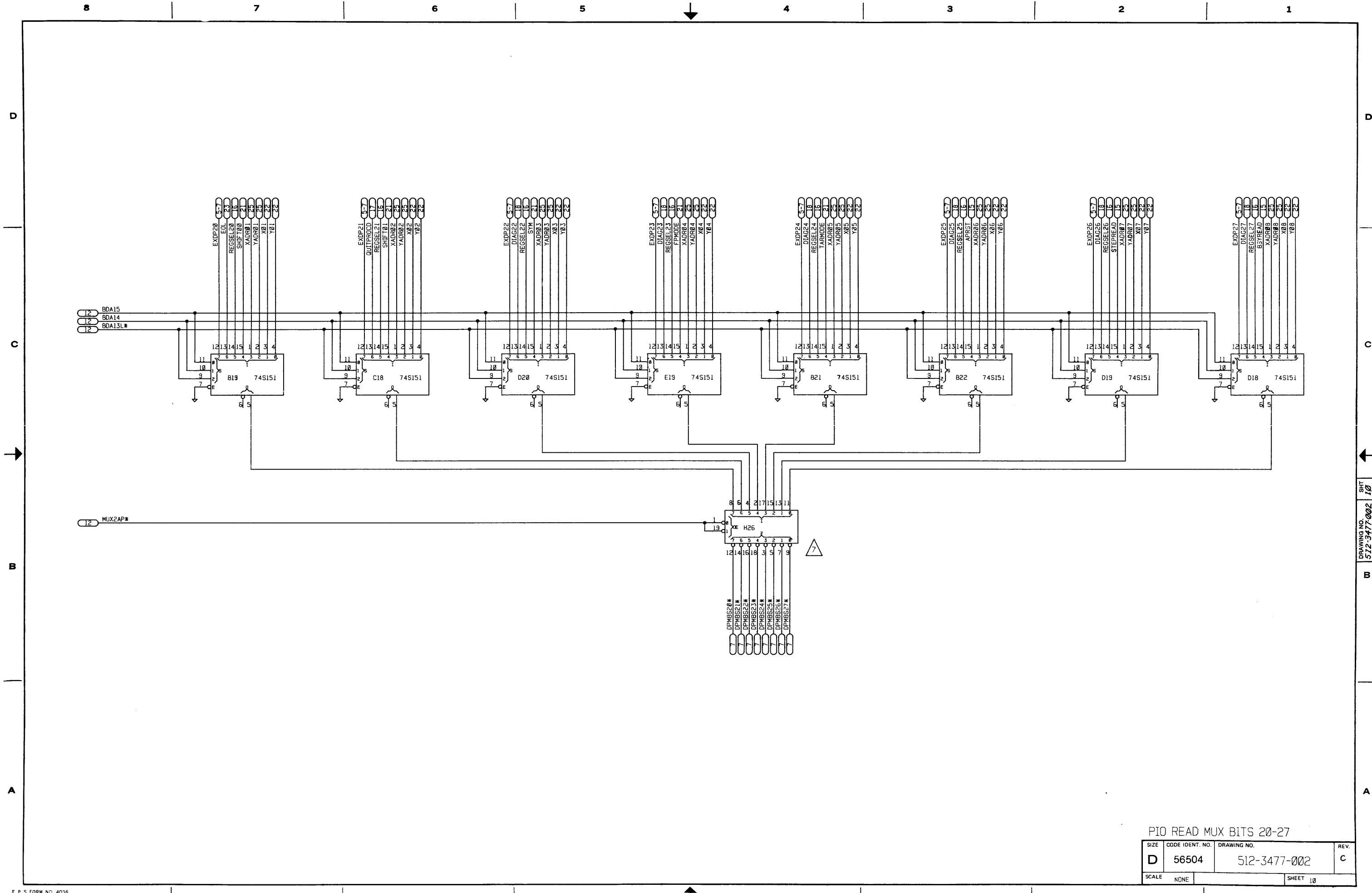
The schematic diagram illustrates a complex digital logic circuit. Key components include:

- Left Side:** A series of seven DIP switches labeled DPBMS01*, DPBMS02*, DPBMS03*, DPBMS04*, DPBMS05*, DPBMS06*, DPBMS07*, DPBMS08*, DPBMS09*, DPBMS10*, and DPBMS11*. These switches connect to a chain of four 74LS240 ICs (labeled F7, F8, F9, and F10).
- Middle Column:** Each 74LS240 IC has its outputs connected to one of two 74LS123 ICs (labeled G2). The outputs of these 74LS123 ICs are then connected to a 74LS240 IC (labeled F11).
- Right Column:** The outputs of the 74LS240 ICs (F11) are connected to three 74LS240 ICs (labeled G12, G14, and F15).
- Top:** The outputs of the 74LS240 ICs (G12, G14, and F15) are connected to a series of eight EXP100-4.7V regulators (EXP100, EXP101, EXP102, EXP103, EXP104, EXP105, EXP106, and EXP107).
- Bottom:** The EXP100-4.7V regulators are connected to a final row of eight DIP switches labeled BIF01*, BIF02*, BIF03*, BIF04*, BIF05*, BIF06*, BIF07*, BIF08*, BIF09*, BIF10*, BIF11*, BIF12*, BIF13*, BIF14*, BIF15*, BIF16*, BIF17*, BIF18*, BIF19*, and BIF20*.

BIF BUS DRIVERS / DATA PAD BUS 00-11 DRIVERS

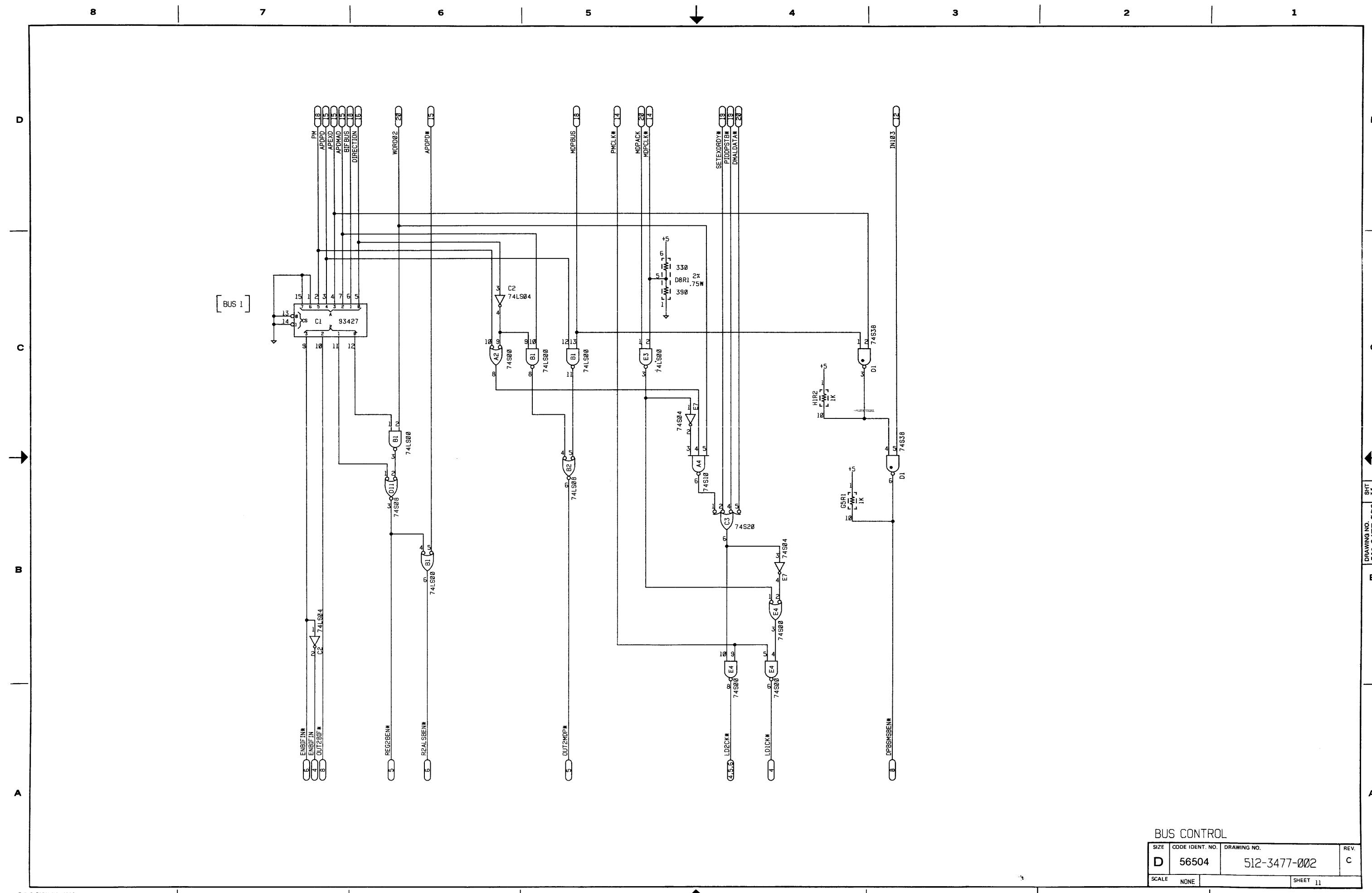
SIZE	CODE IDENT. NO.	DRAWING NO.	REV.
D	56504	512-3477-002	C
SCALE	NONE	SHEET 8	





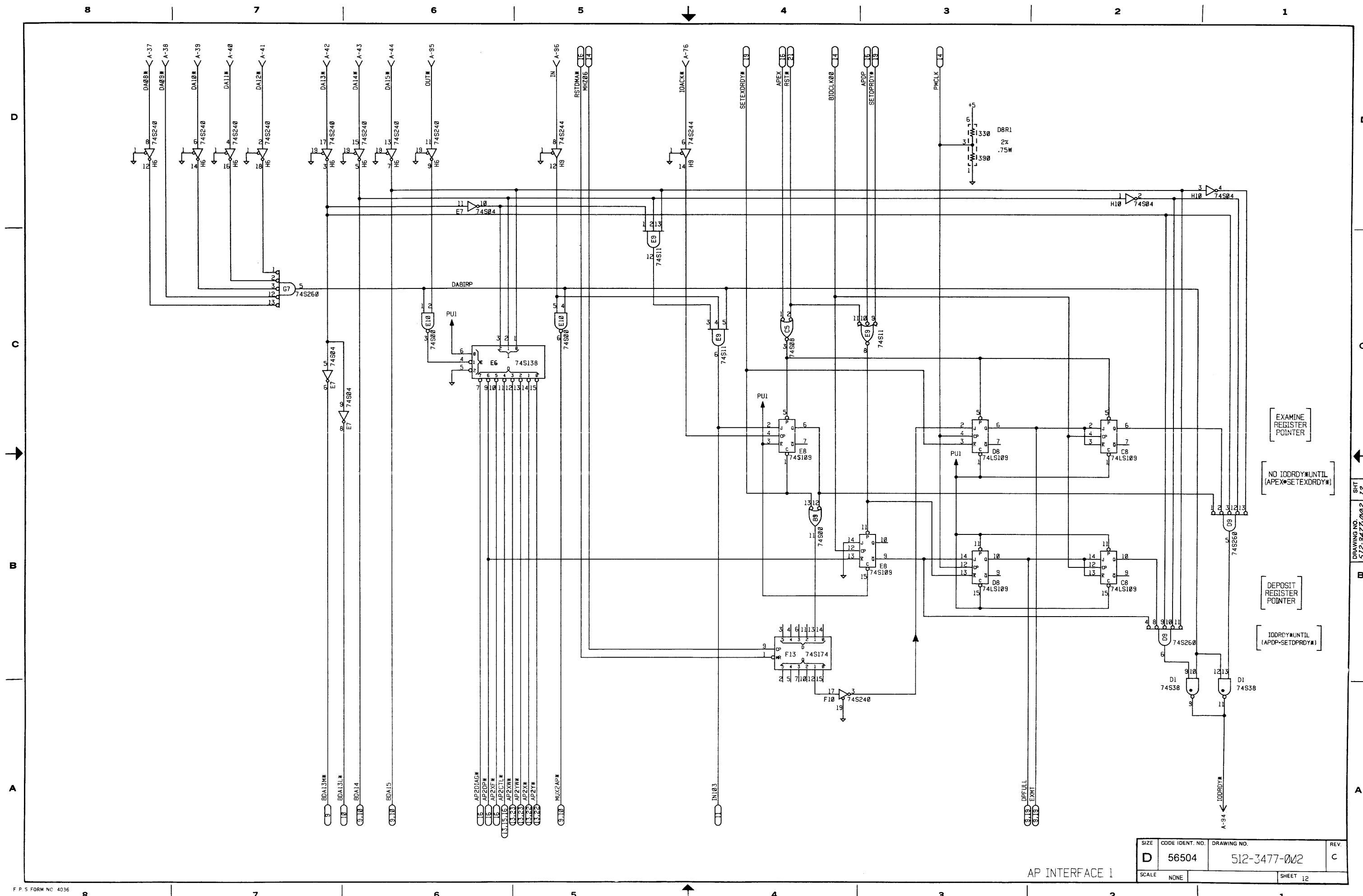
PIO READ MUX BITS 20-27

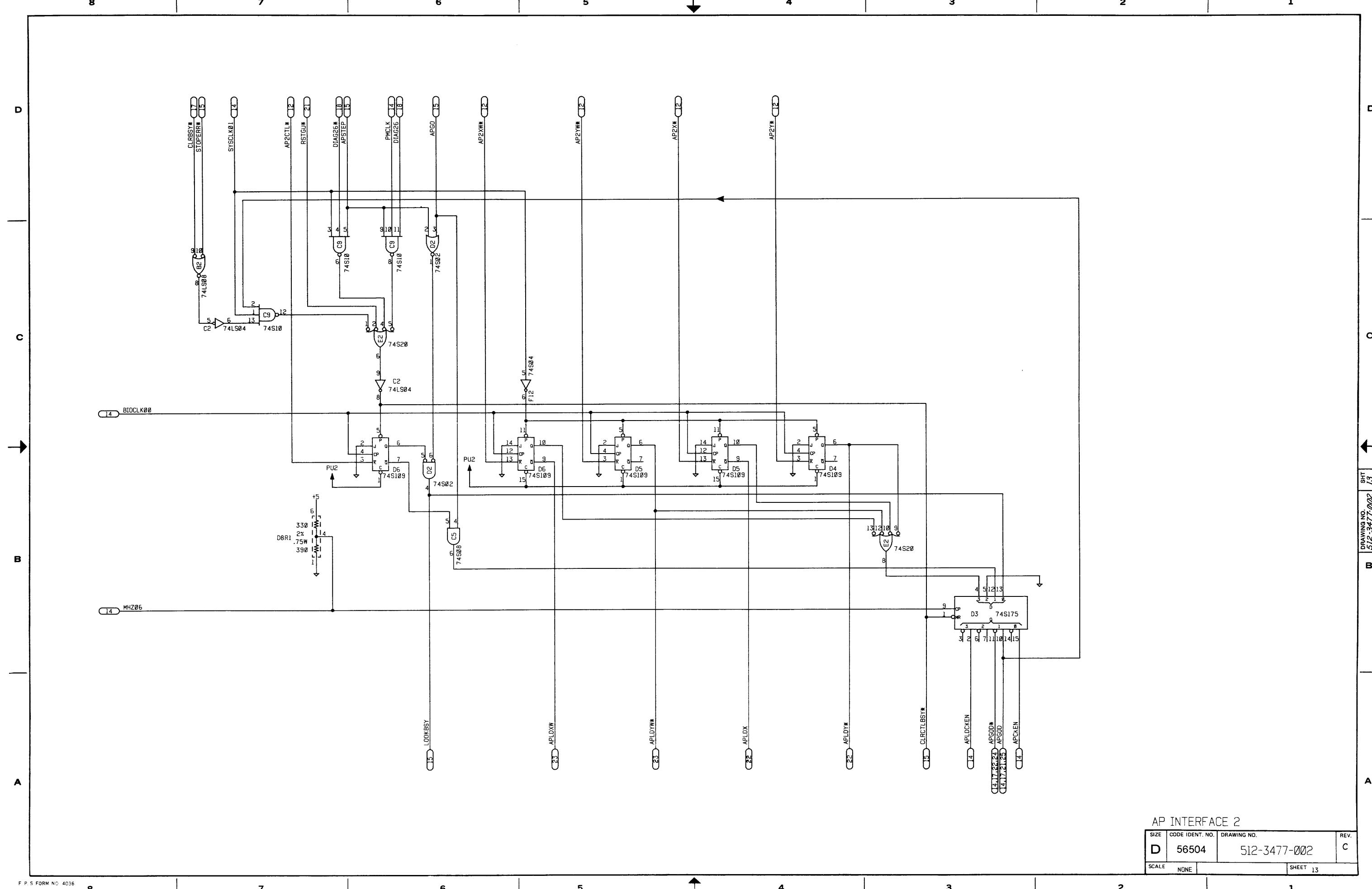
ZE	CODE IDENT. NO.	DRAWING NO.	REV.
D	56504	512-3477-002	C
ALE	NONE	SHEET 10	



BUS CONTROL

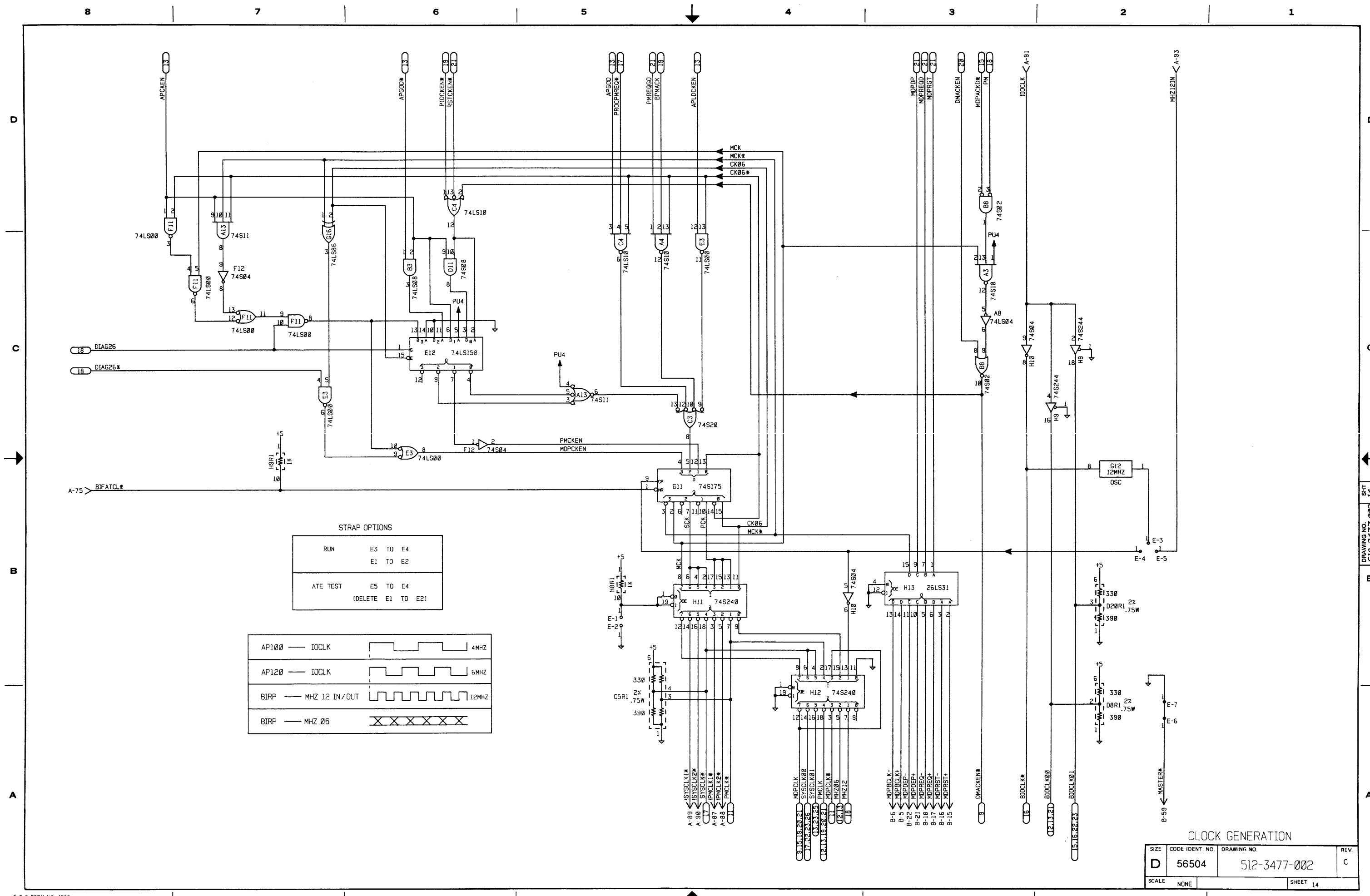
SIZE	CODE IDENT. NO.	DRAWING NO.	REV.
D	56504	512-3477-002	C
SCALE	NONE	SHEET	11

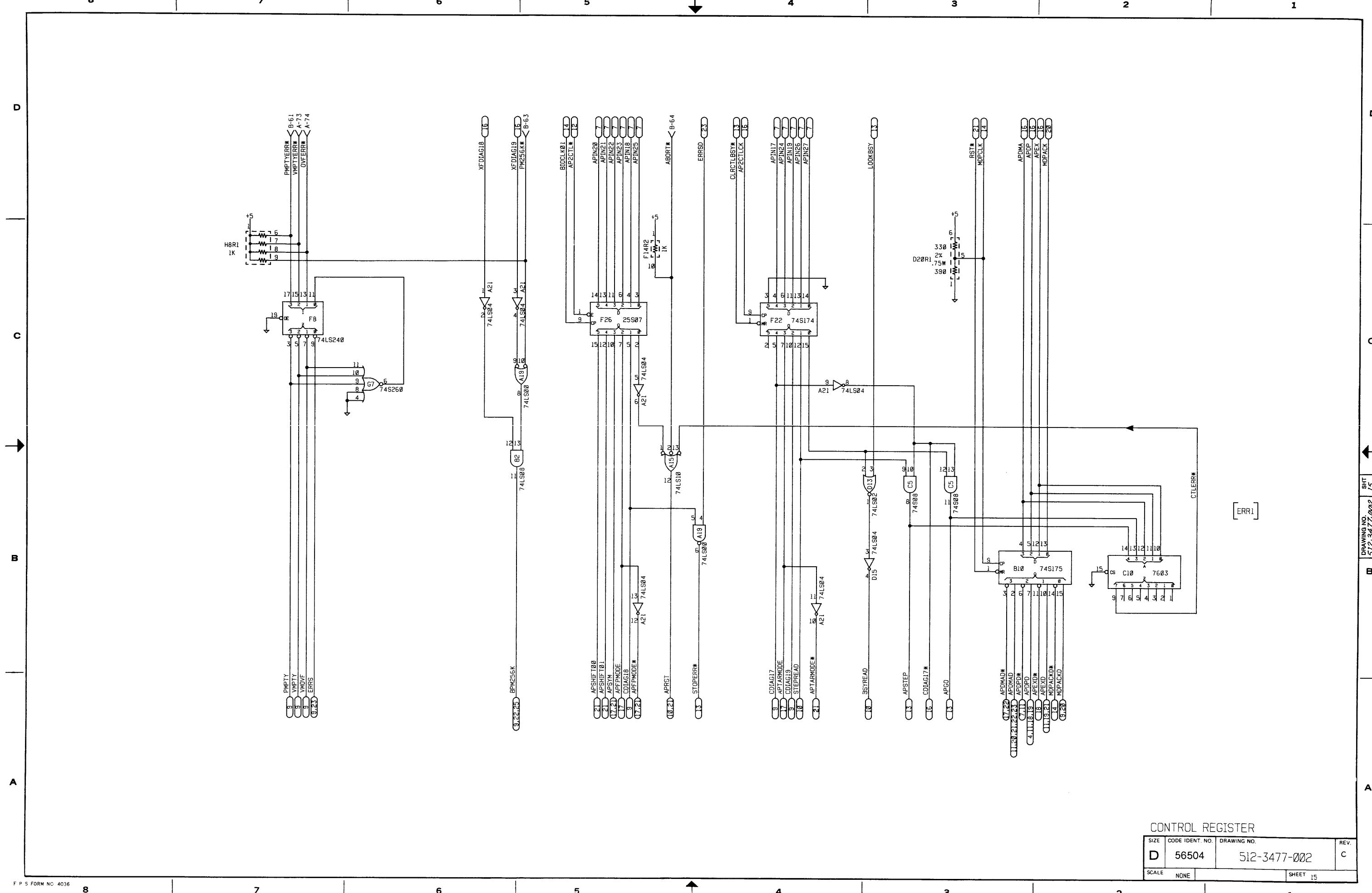




AP INTERFACE 2

SIZE D	CODE IDENT. NO. 56504	DRAWING NO. 512-3477-002	REV. C
SCALE NONE			SHEET 13





CONTROL REGISTER

SIZE D	CODE IDENT. NO. 56504	DRAWING NO. 512-3477-002	REV. C
CALE	NONE	SHEET 15	

8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

D

D

C

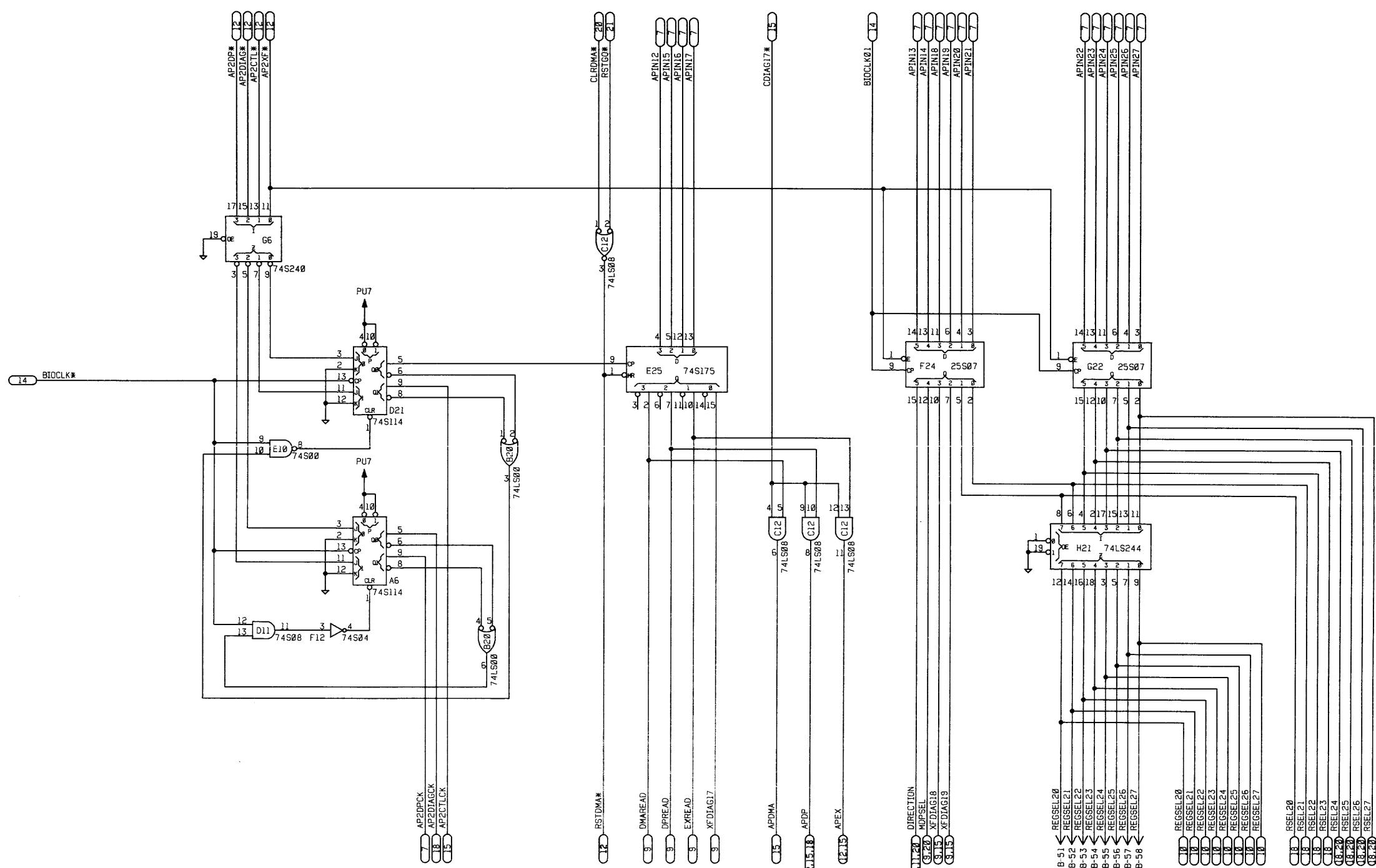
C

B

B

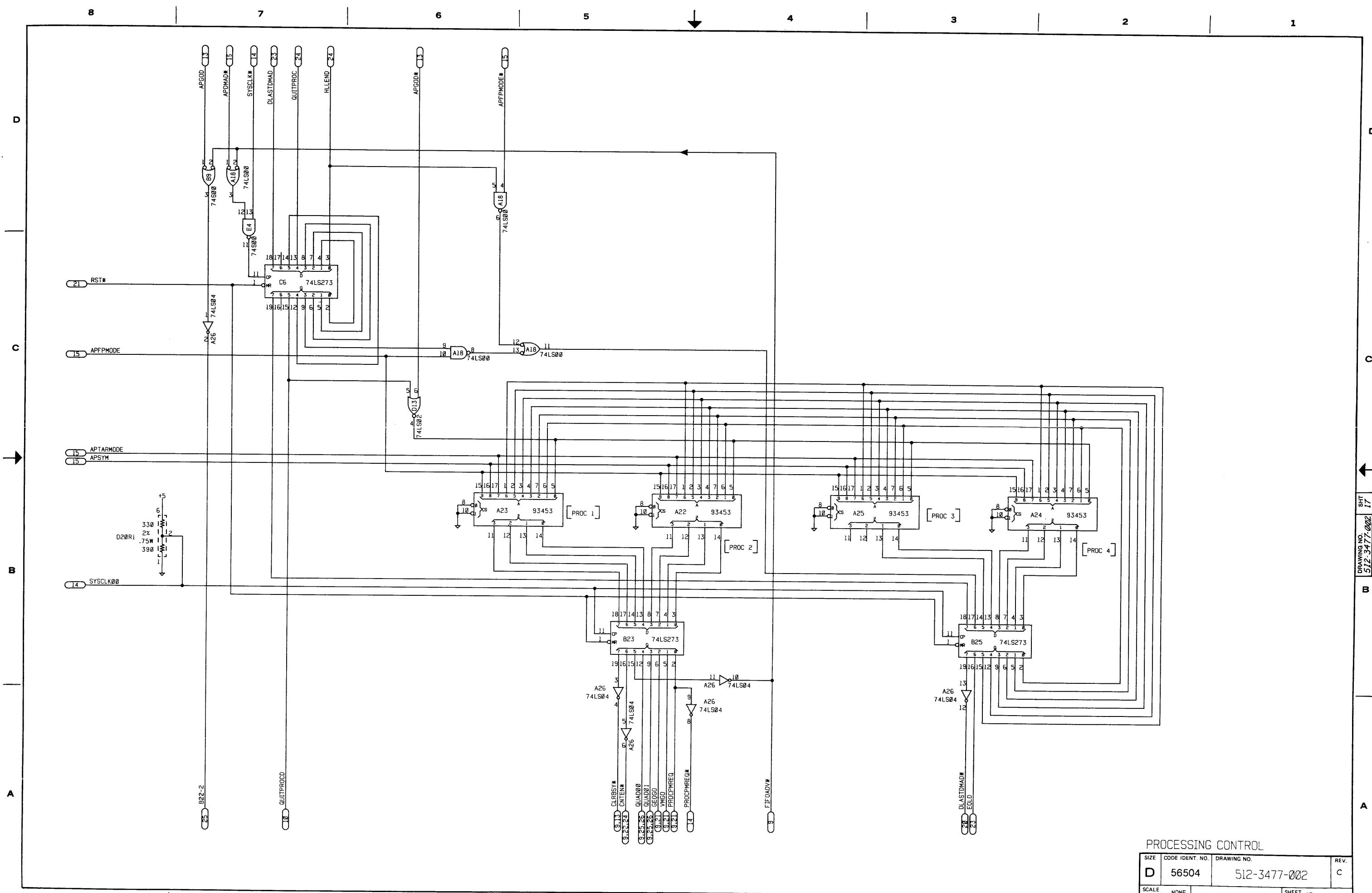
A

A



TRANSFER CONTROL REGISTER

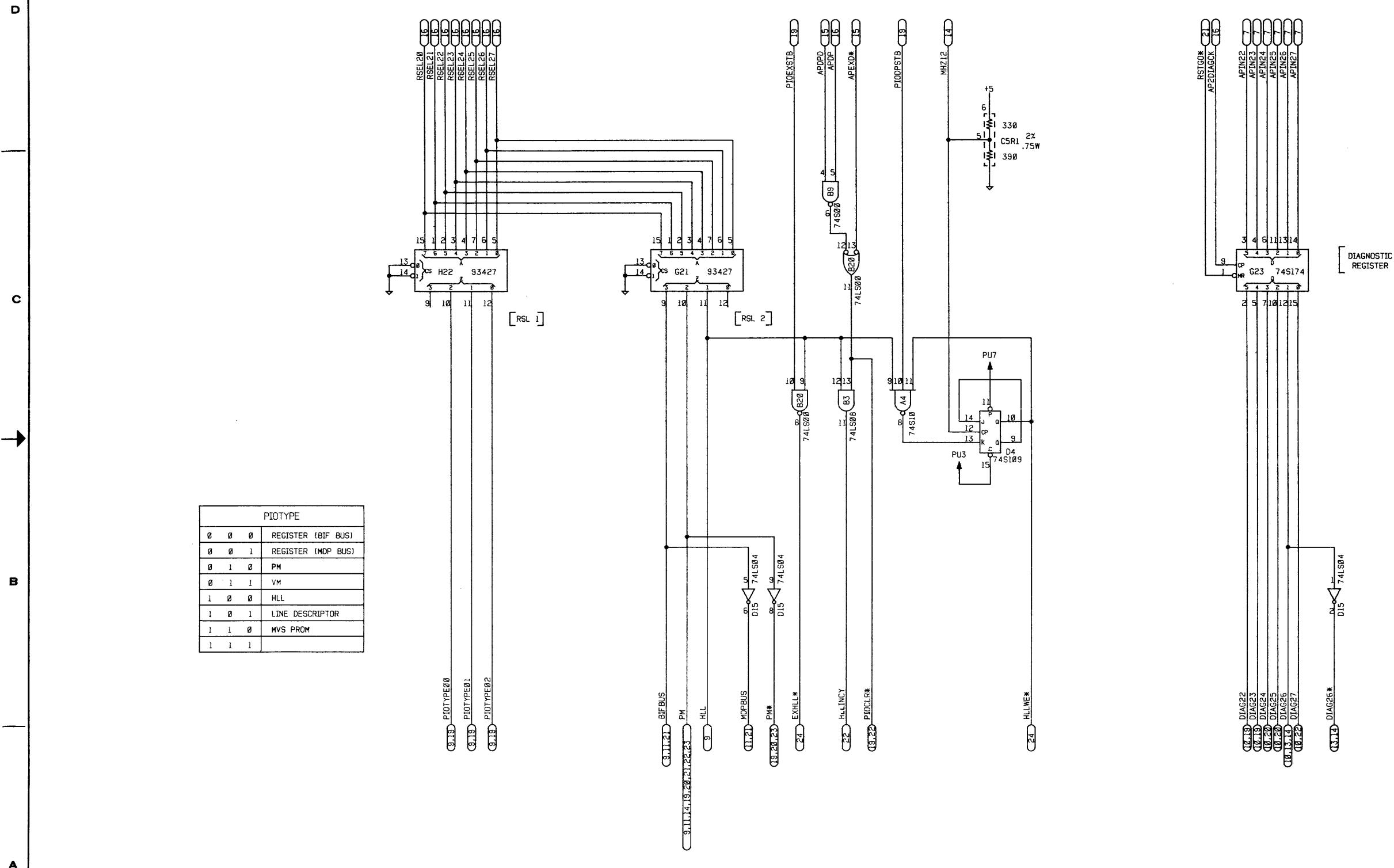
SIZE	CODE IDENT. NO.	DRAWING NO.	REV.
D	56504	512-3477-002	C



PROCESSING CONTROL

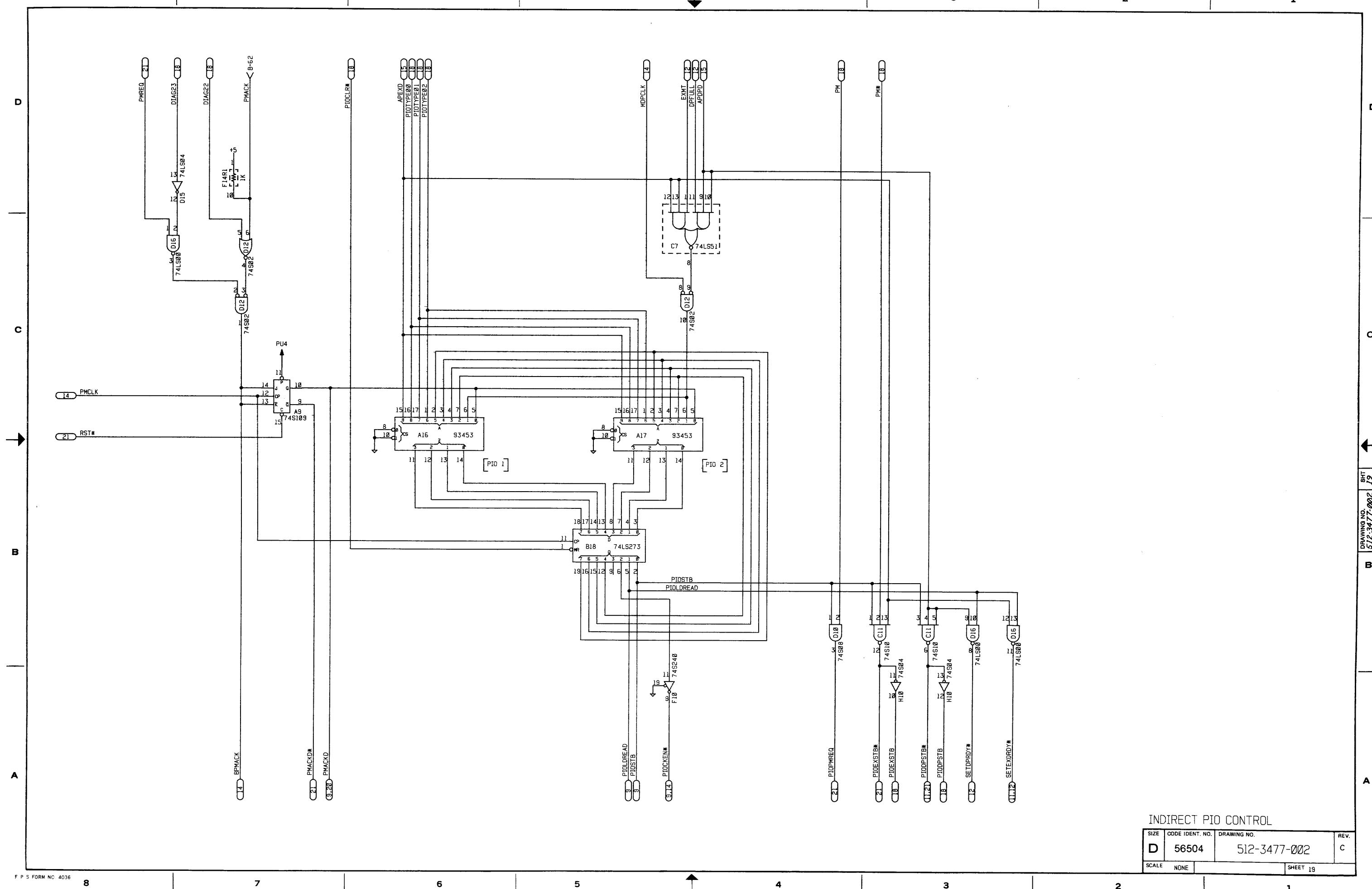
SIZE D	CODE IDENT. NO. 56504	DRAWING NO. 512-3477-002	REV. C
SCALE	NONE	SHEET 17	

8 | 7 | 6 | 5 | 4 | 3 | 2 | 1



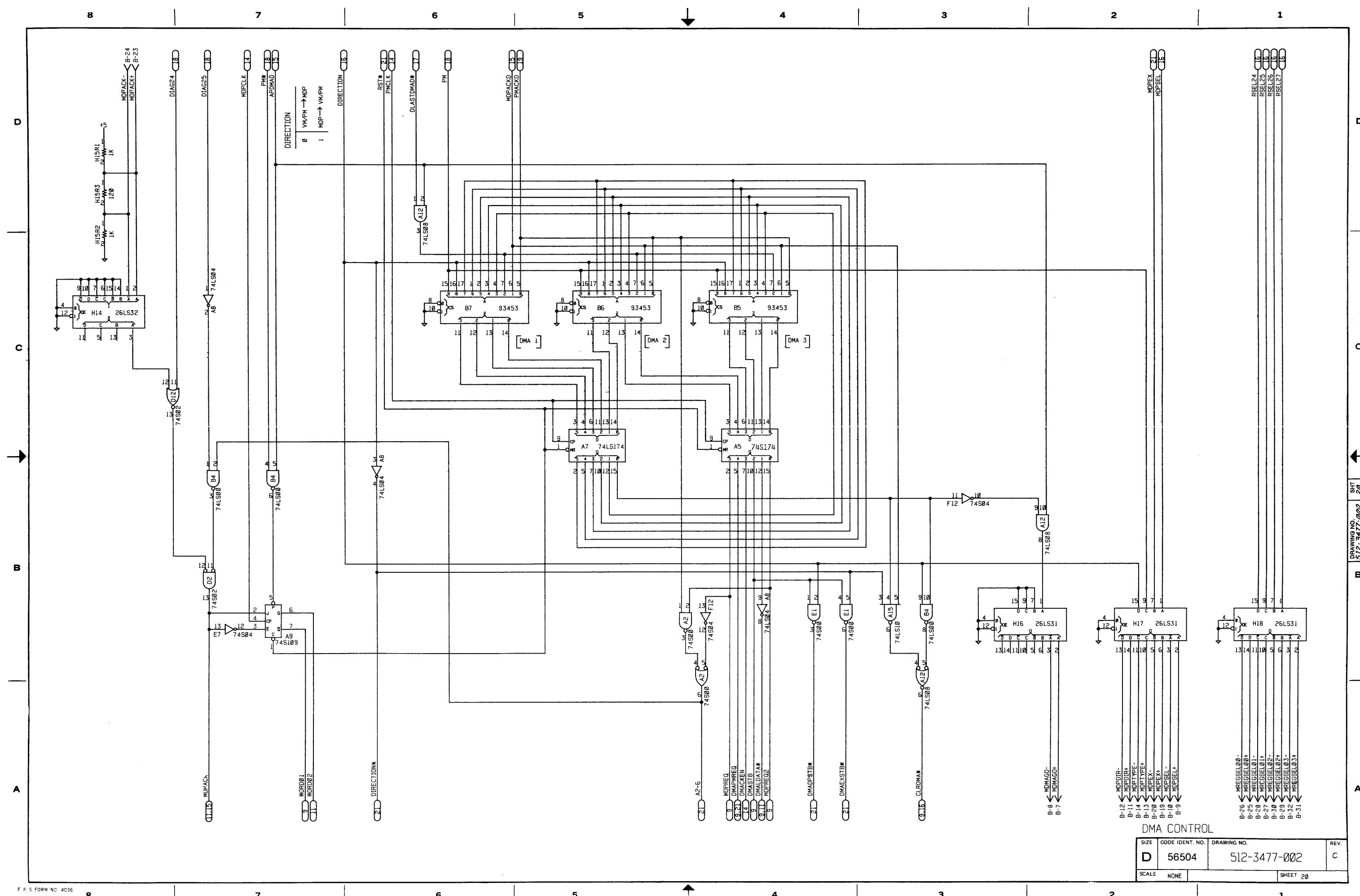
DIAGNOSTIC REGISTER

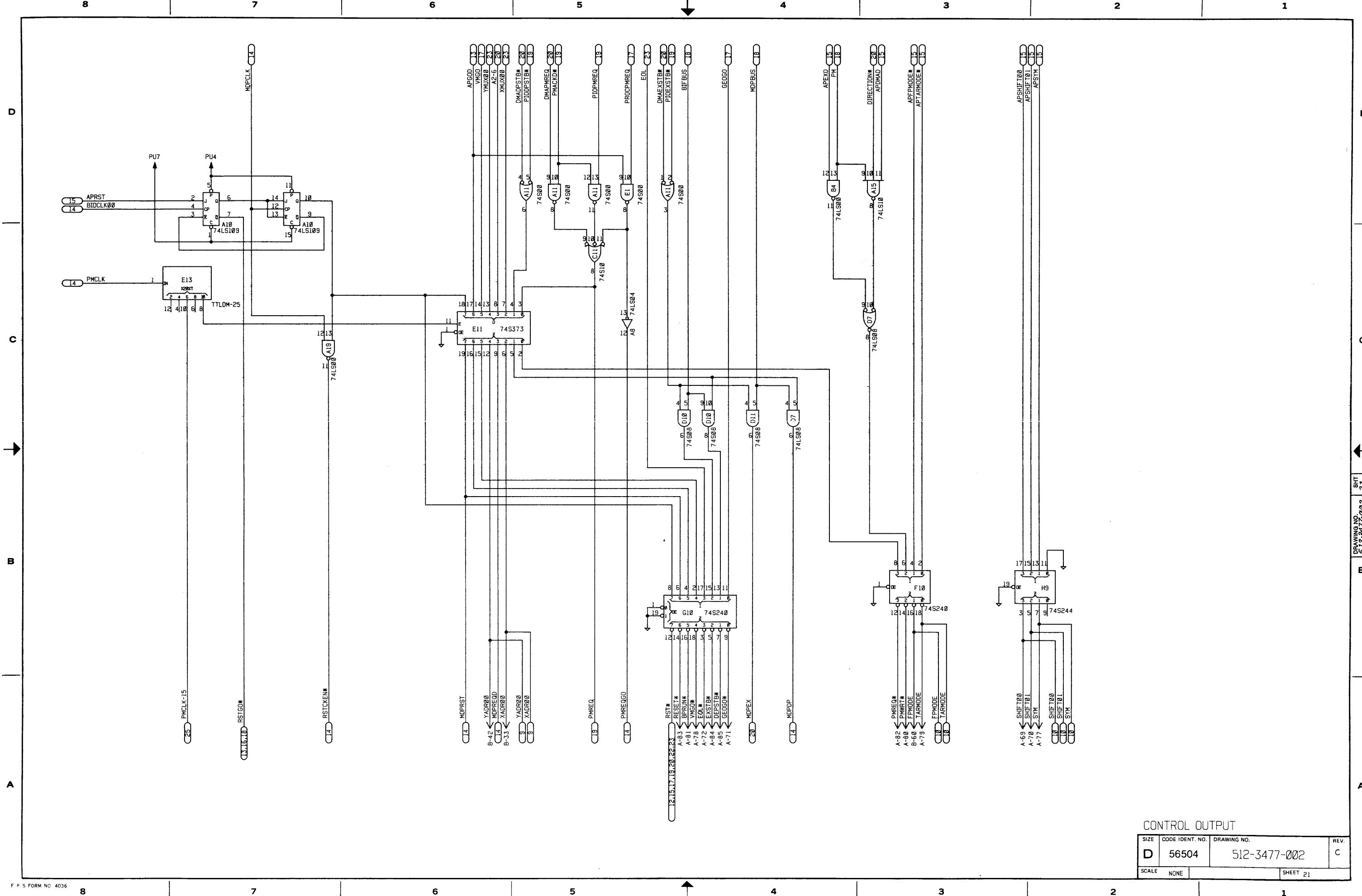
SIZE	CODE IDENT. NO.	DRAWING NO.	REV.
D	56504	512-3477-002	C
SCALE	NONE		SHEET 18

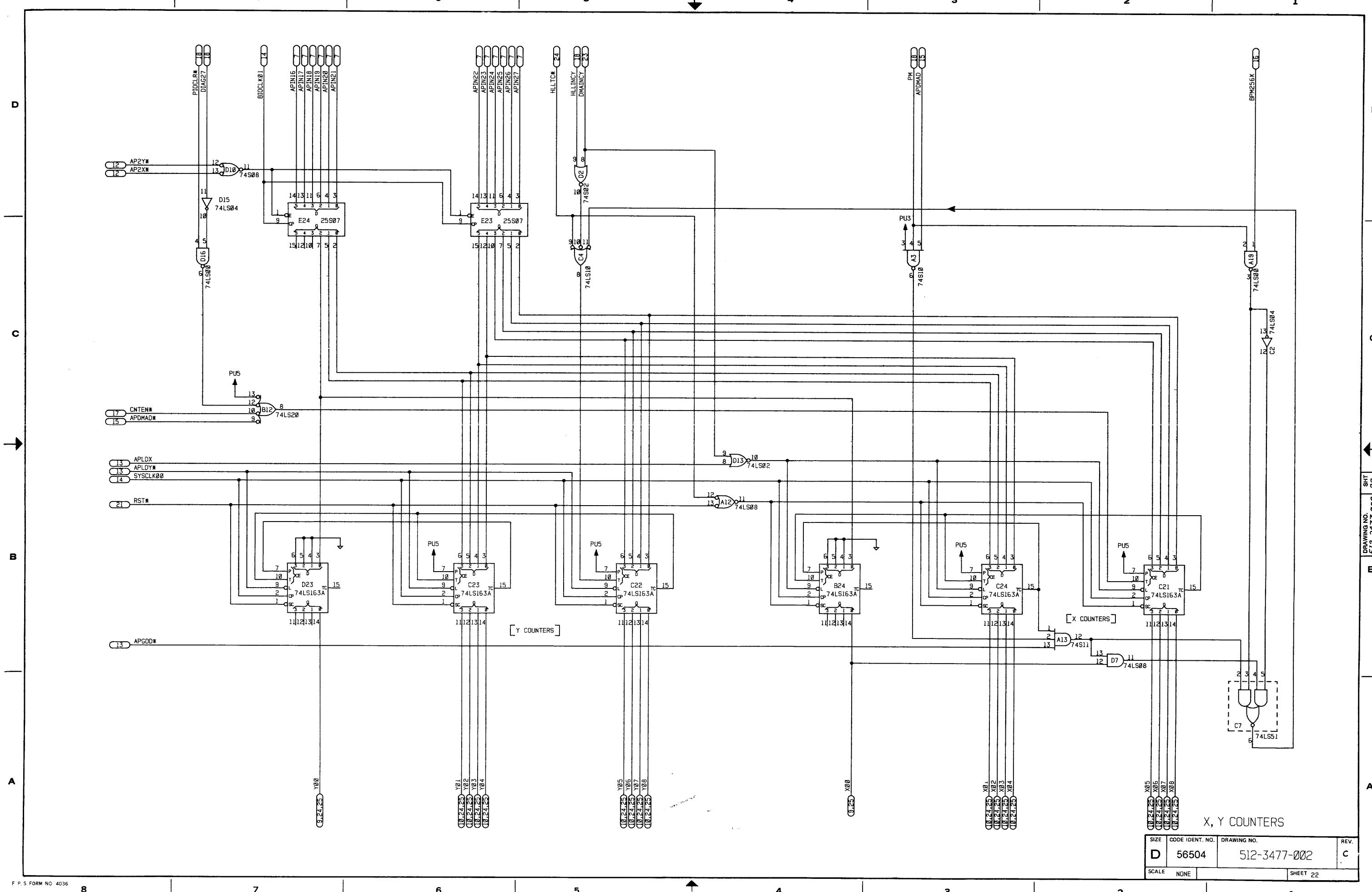


INDIRECT PIO CONTROL

SIZE D	CODE IDENT. NO. 56504	DRAWING NO. 512-3477-002	REV. C
SCALE NONE			SHEET 19



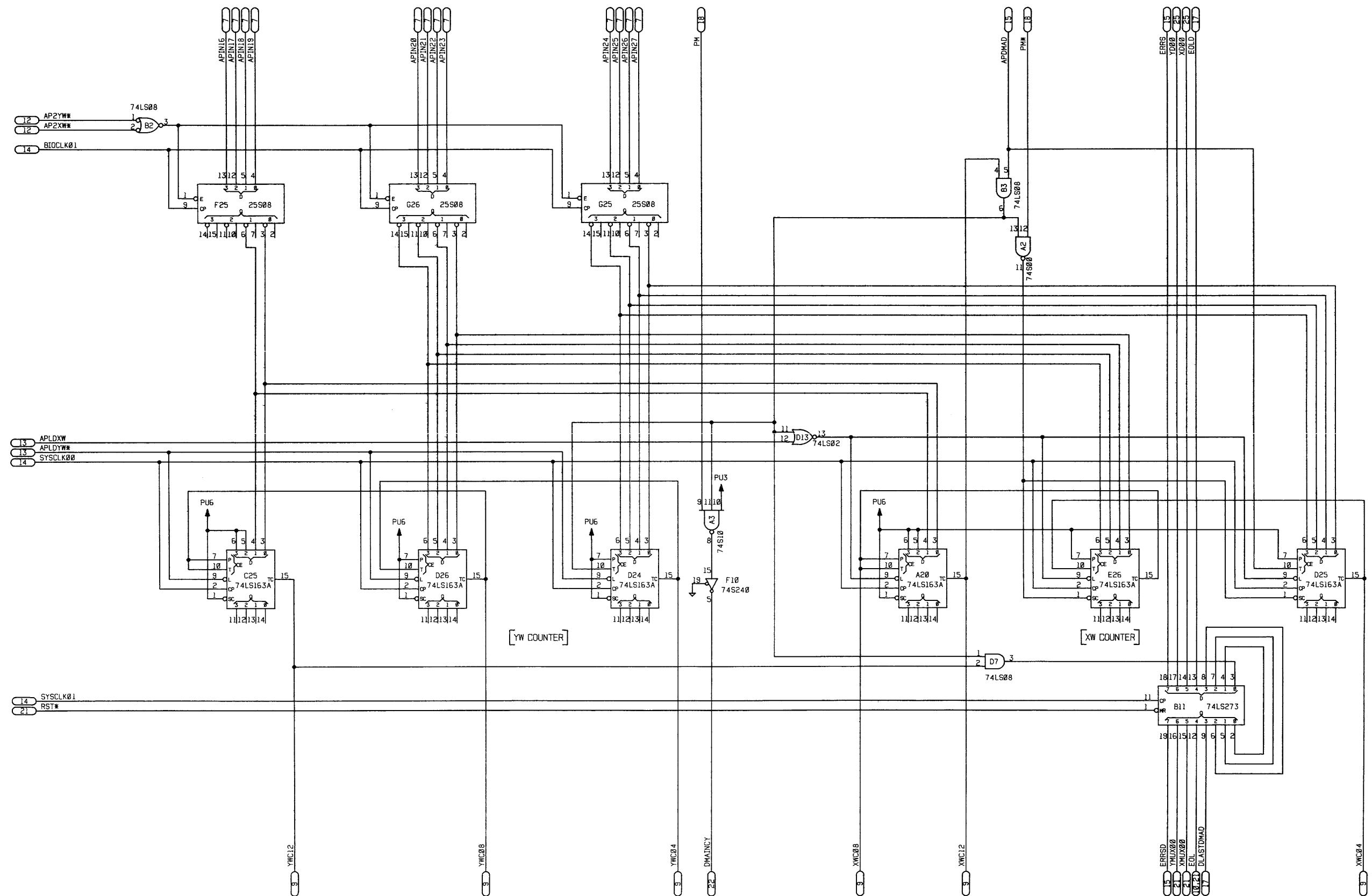




8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

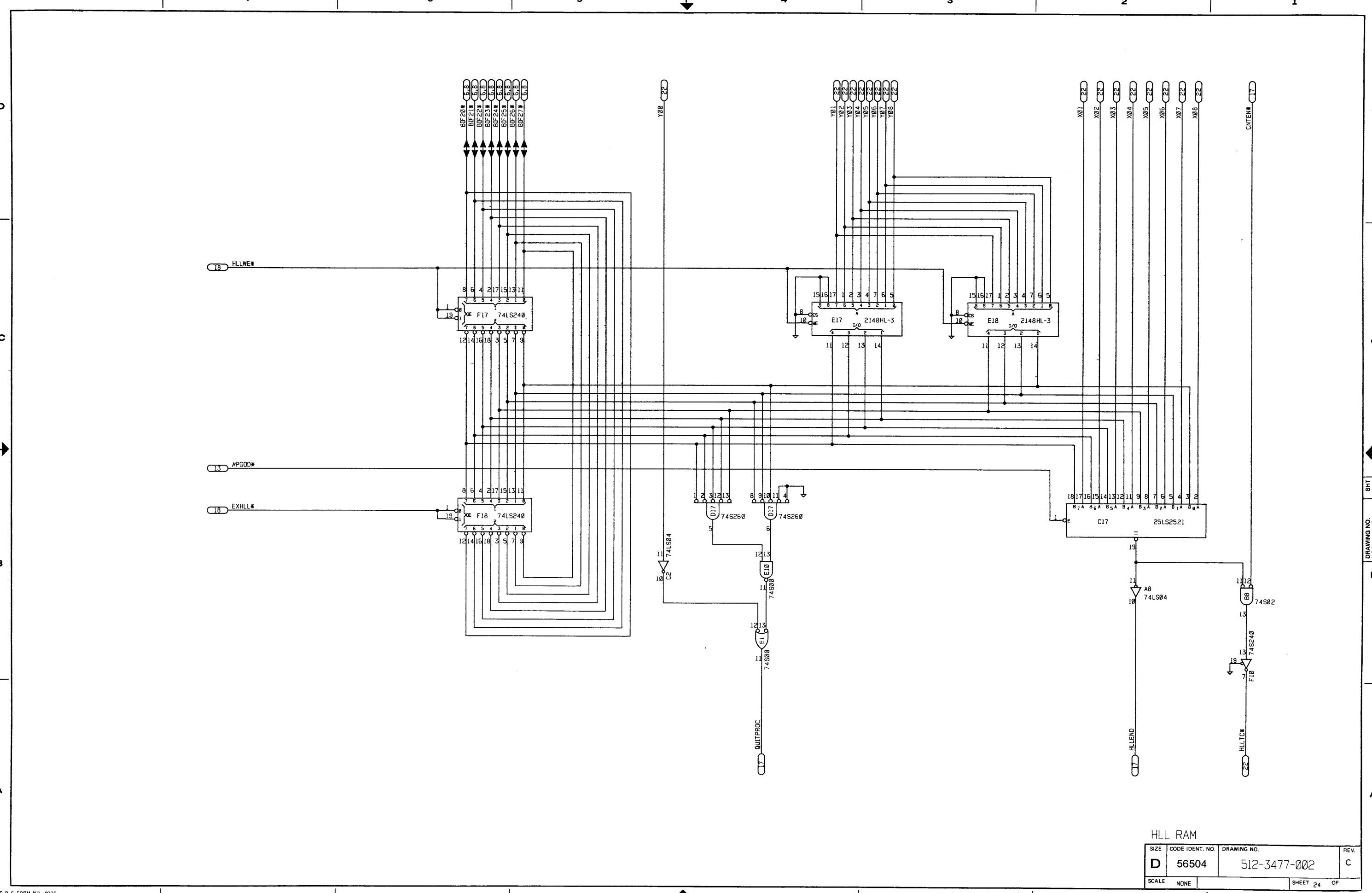
D

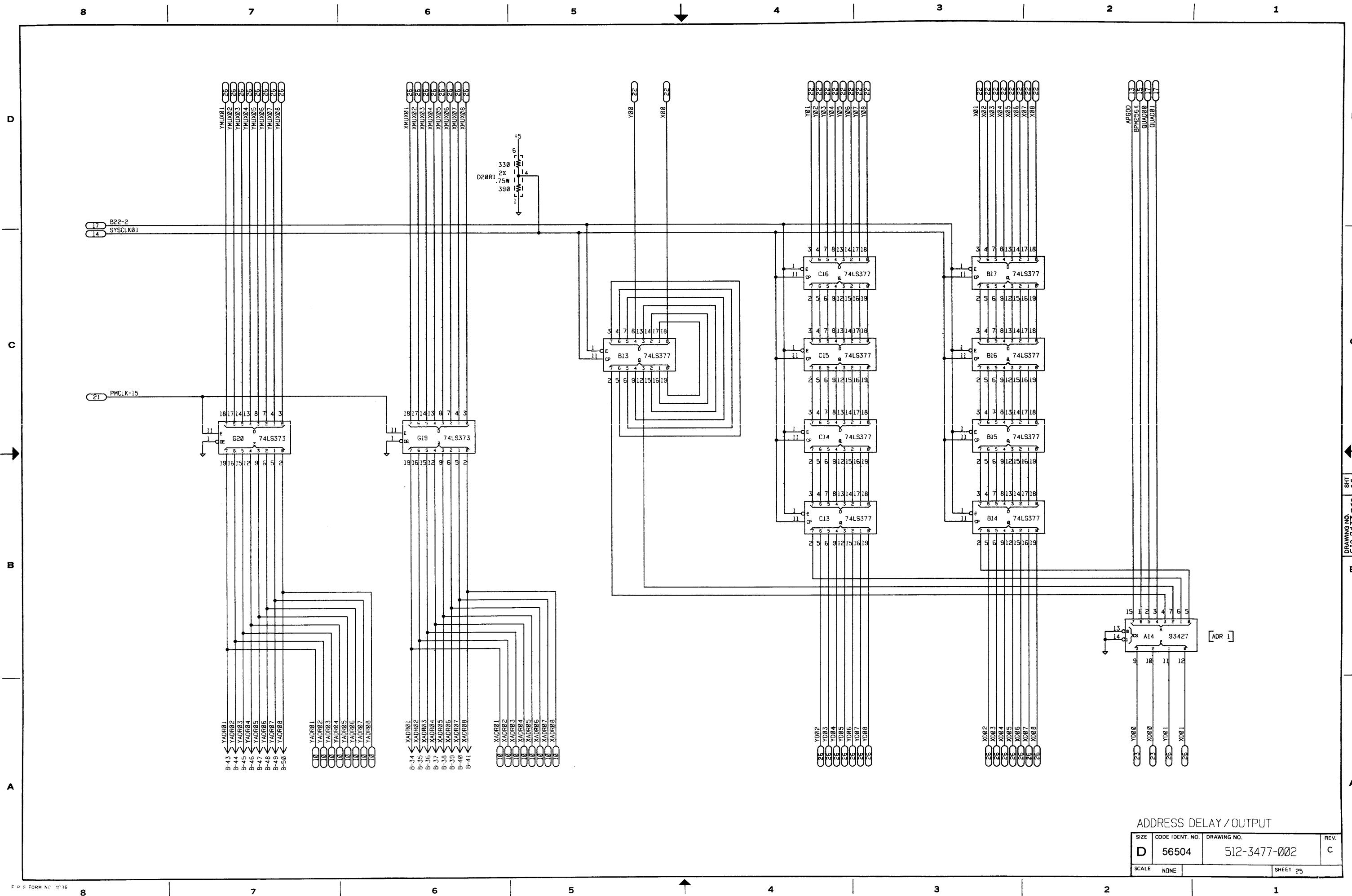
D

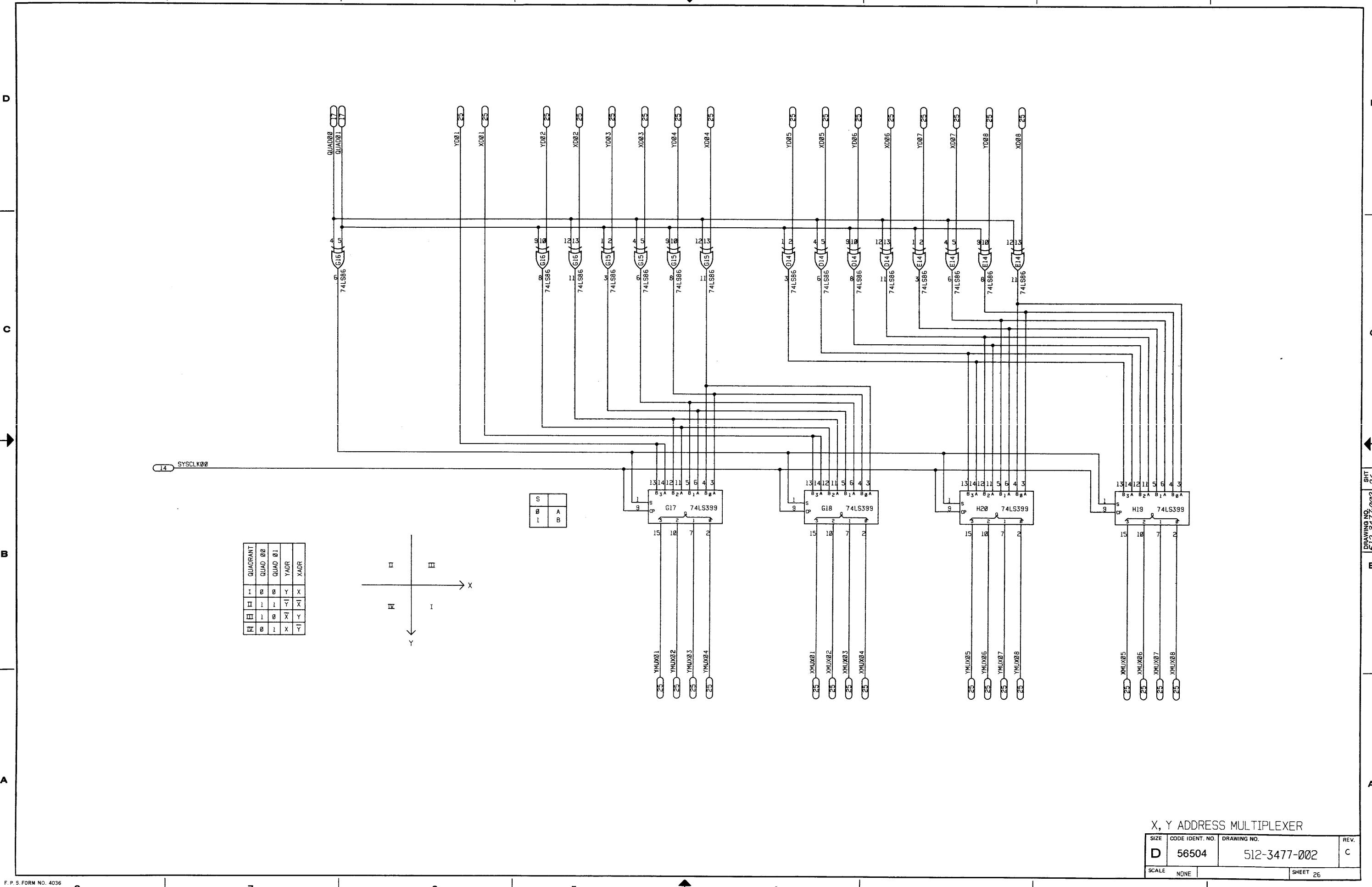


XW, YW COUNTERS

SIZE	CODE IDENT. NO.	DRAWING NO.	REV.
D	56504	512-3477-002	C
SCALE NONE			SHEET 23







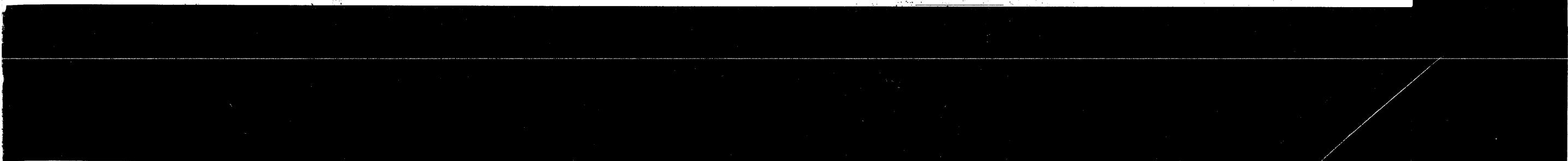
X, Y ADDRESS MULTIPLEXER

SIZE D	CODE IDENT. NO. 56504	DRAWING NO. 512-3477-002	REV. C
SCALE	NONE	SHEET	26



CONNECTOR	SIGNAL NAME	SHEET #	
A-1	+5	1	
A-2	+5	1	
A-3	GND	1	
A-4	GND	1	
A-5	MDPB000+	4	
A-6	MDPB000-	4	
A-7	MDPB001+	4	
A-8	MDPB001-	4	
A-9	MDPB002+	4	
A-10	MDPB002-	4	
A-11	MDPB003+	4	
A-12	MDPB003-	4	
A-13	MDPB004+	4	
A-14	MDPB004-	4	
A-15	MDPB005+	4	
A-16	MDPB005-	4	
A-17	MDPB006+	4	
A-18	MDPB006-	4	
A-19	MDPB007+	4	
A-20	MDPB007-	4	
A-21	MDPB008+	4	
A-22	MDPB008-	4	
A-23	MDPB009+	4	
A-24	MDPB009-	4	
A-25	MDPB010+	4	
A-26	MDPB010-	4	
A-27	MDPB011+	4	
A-28	MDPB011-	4	
A-29	MDPB012+	4	
A-30	MDPB012-	4	
A-31	MDPB013+	4	
A-32	MDPB013-	4	
A-33	MDPB014+	4	
A-34	MDPB014-	4	
A-35	MDPB015+	4	
A-36	MDPB015-	4	
A-37	DA08*	12	
A-38	DA09*	12	
A-39	DA10*	12	
A-40	DA11*	12	
A-41	DA12*	12	
A-42	DA13*	12	
A-43	DA14*	12	
A-44	DA15*	12	
A-45	DPMS000*	7	
A-46	DPMS001*	7	
A-47	DPMS002*	7	
A-48	DPMS003*	7	
A-49	DPMS004*	7	
A-50	DPMS005*	7	
A-51	DPMS006*	7	
A-52	DPMS007*	7	
A-53	DPMS008*	7	
A-54	DPMS009*	7	
A-55	DPMS010*	7	
A-56	DPMS011*	7	
A-57	BIF00*	6	
A-58	BIF01*	6	
A-59	BIF02*	6	
A-60	BIF03*	6	
A-61	BIF04*	6	
A-62	BIF05*	6	
A-63	BIF06*	6	
A-64	BIF07*	6	
A-65	BIF08*	6	
A-66	BIF09*	6	
A-67	BIF10*	6	
A-68	BIF11*	6	
A-69	SHIFT00	21	
A-70	SHIFT01	21	
A-71	GEOG0*	21	
A-72	EOL*	21	
A-73	VMPYERR*	15	
A-74	OVFERR*	15	
	A-75	BIFATCL*	14
	A-76	I0ACK*	12
	A-77	SYM	21
	A-78	VMGO*	21
	A-79	TARMODE	21
	A-80	PWRT*	21
	A-81	BPRUN*	21
	A-82	PMREQ*	21
	A-83	RESET*	21
	A-84	EXSTB*	21
	A-85	DEPSTB*	21
	A-86	PMCLK1*	14
	A-88	PMCLK2*	14
	A-89	SYSLCK1*	14
	A-90	SYSLCK2*	14
	A-91	IDCLK	14
	A-93	MHZ12N	14
	A-94	I0RDY*	12
	A-95	OUT*	12
	A-96	IN	12
	A-97	GND	1
	A-98	GND	1
	A-99	+5	1
	A-100	+5	1
	B-1	+5	1
	B-2	+5	1
	B-3	GND	1
	B-4	GND	1
	B-5	MDPBCLK+	14
	B-6	MDPBCLK-	14
	B-7	MDMAGO+	20
	B-8	MDMAGO-	20
	B-9	MDPSEL+	20
	B-10	MDPSEL-	20
	B-11	MDPDIR+	20
	B-12	MDPDIR-	20
	B-13	MDPTYPE+	20
	B-14	MDPTYPE-	20
	B-15	MDPRST+	14
	B-16	MDPRST-	14
	B-17	MDPREQ+	14
	B-18	MDPREQ-	14
	B-19	MDPEX+	20
	B-20	MDPEX-	20
	B-21	MDPDEP+	14
	B-22	MDPDEP-	14
	B-23	MDPACK+	20
	B-24	MDPACK-	20
	B-25	MREGSEL02-	20
	B-26	MREGSEL20-	20
	B-27	MREGSEL21+	20
	B-28	MREGSEL21-	20
	B-29	MREGSEL22+	20
	B-30	MREGSEL22-	20
	B-31	MREGSEL03+	20
	B-32	MREGSEL03-	20
	B-33	XADR00	21
	B-34	XADR01	25
	B-35	:ADR02	25
	B-36	XADR03	25
	B-37	XADR04	25
	B-38	XADR05	25
	B-39	XADR06	25
	B-40	XADR07	25
	B-41	XADR08	25
	B-42	YADR00	21
	B-43	YADR01	25
	B-44	YADR02	25
	B-45	YADR03	25
	B-46	YADR04	25
	B-47	YADR05	25
	B-48	YADR06	25
	B-49	YADR07	25
	B-50	YADR08	25

SIZE	CODE IDENT. NO.	DRAWING NO.	REV.
D	56504	512-3477-002	C
SCALE	NONE	SHEET	27



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