Revisions				217251	H
LAL	Rev	Description	Chk	Date	Approved
	A	ENGRG RELEASE	BN	10-26-78	
	B	ADDED NOTE 2 (CUT ETCH AND ADD JUMPER) . M/L ITEM10 QTY WAS 2, ITEM 12 QTY WAS 3, ADDED ITEM 24 I.C. S08 QTY 1, D7. M/L ITEM 47 QTY WAS 8 , ITEM 50 QTY WAS 1, ITEM 56 QTY WAS 16. ADDED M/L ITEM 14.	BN	1-17-79 2-28-79	
X	C	M/L ITEM 13 ADDED F2. ADDED ITEM 17 74LS138 QTY 1, G1. REMOVED G1 FROM M/L ITEM 16. ITEM 47 5.1K WAS 5K, 116447-502. ITEM 51 510 OHMS WAS 500 OHMS 116447-501. ITEM 56 QTY WAS 16.	BN	3-27-79	
X	D	DELETED NOTE 2-108, & 109). ADDED NOTE 2-126), 127), & 128). M/L ITEM 11 REMOVED F8. M/L ITEM 19 REMOVED D4. ADDED ITEM 61, 62, 63.	BN	4-2-79	
	E	ADDED COMP. REF DESIGNATIONS	BN		
	F	LOGIC UPDATED	BN		
	G	LOGIC UPDATED	BN		
X	H	ADDED NOTES 2-129) THRU 2-165) M/L ITEM 14 WAS 74LS74.	BN	4-23-79	

ENGINEERING RELEASE

THIS DOCUMENT CONTAINS 22 SHEETS.

NTDD1-PWASSY.SIL (PNTDD-PWASSY.DM)

Dist Code SPG

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Notes Unless Specified

1. Tolerances .xx ±.03 .xxx ±.010 Angular ±1/2°
2. Break All Sharp Edges .010 Approx
3. Mach. Surfaces
4. All Dim. In Inches

Drawn NISHIMURA

Check BN 4-23-79

Appr.

Material

Xerox Corporation
El Segundo, California
XEROX

ASSEMBLY,PRINTED WIRING-DISK & DISPLAY (NOTETAKER)

Model No. / First Use NOTETAKER	Finish	Code Ident 18338	Size A	Dwg. No. 217251	Change Letter H
Next Assy. / First Use 217684		Scale NONE	Do Not Scale Drawing	Sheet 1 OF	

NOTES: UNLESS OTHERWISE SPECIFIED

1. ASSEMBLE PER MODULE ASSY SPEC, DWG NO. 216207.

2. THE FOLLOWING MODIFICATIONS ARE REQUIRED USING 'A' REVISION PW BOARD:

   1) DRILL OUT FEEDTHRU LOCATED BETWEEN 1E8 AND 1E9 UNTIL THERE IS NO CONTINUITY BETWEEN 2A1 AND 1G7 OR 1G7 AND 6D19 (COMP. SIDE).

   2) CUT ETCH BETWEEN 4C9 AND 4D6 (ETCH SIDE).

   3) DRILL OUT 4E10 SO THERE IS NO CONTINUITY BETWEEN 4E10 AND 4C11.

   4) CUT ETCH BETWEEN 6D14 AND ITS FEED-THRU (COMP. SIDE).

   5) 6D13

   6) 6D12

   7) 6D11

   8) 6D10 AND ITS FEED-THRU (COMP. SIDE).

   9) 6D9 AND 6F7 (ETCH SIDE).

   10) 6D9 AND FEED-THRU NEAR 5B4 (ETCH SIDE).

   11) 6D8 AND FEED-THRU NEAR 5B11 (ETCH SIDE).

   12) 6D7 AND FEED-THRU NEAR 5B10 (ETCH SIDE).

   13) 6D8 AND 6F6 (ETCH SIDE).

   14) 6D7 AND 6F5 (ETCH SIDE)

   15) 9G12 AND 9G4 (COMP. SIDE).

   16) 8F10 AND FEED-THRU NEAR 8G14(CONNECTS TO 10G11) (ETCH SIDE).

   17) 8F11 AND FEED-THRU NEAR 8C12(CONNECTS TO 8C13) (ETCH SIDE).

   18) 10G12 AND 9G14 (COMP. SIDE).

   19) 7D13 AND FEED-THRU (CONNECTS TO 9G4) (ETCH SIDE).

   20) 4F12 AND 8G12 (COMP. SIDE).

   21) CUT ETCH BETWEEN 9D13 AND FEED-THRU (CONNECTS TO 10E12) (ETCH SIDE).

(NOTE 2 CONT'D ON SHEET 3)

NTDD2-PWASSY.SIL

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Title: ASSY, PRINTED WIRING- DISK & DISPLAY

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XEROX

217251 , H

Sheet 2 Of

(NOTE 2 CONT'D)

22) DRILL OUT 7D11 SO THERE IS NO CONTINUITY BETWEEN 7D11 AND 8D2.

23) CUT ETCH BETWEEN 9C6 AND 9G14 (ETCH SIDE).

24)	8C2	7B15
25)	8C3	7B14
26)	8C4	7B13
27)	8C5	7B12
28)	8C10	7C15
29)	8C11	7C14
30)	8C12	7C13
31)	8C14	7C12
32)	9C2	8B15
33)	9C3	8B14
34)	9C4	8B13
35)	9C5	8B12
36)	9C11	9B14
37)	9C12	9B13
38)	9C14	9B12

39) 2B4 PIN 66 (ETCH SIDE).

40) 9F1 10F14 (COMP. SIDE).

41) 7F9 4F11 (COMP. SIDE).

42) 7F9 FEEDTHRU NEAR 9F7 (COMP. SIDE).

43) 8D1 FEEDTHRU UNDER 8G(CONN TO 10G4)(ETCH SIDE).

44) 8D1 FEEDTHRU UNDER 6D (COMP. SIDE).

45) 4B16 FEEDTHRU (ETCH SIDE).

46) CUT ETCH BETWEEN 4B19 AND 1B3 (COMP. SIDE).

(NOTE 2 CONT'D ON SH 4)

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(NOTE 2 CONT'D)

47) CUT ETCH BETWEEN 1A9 AND CR1 + (COMP. SIDE).

48) CUT ETCH BETWEEN CR1 + AND FEEDTHRU NEAR 6B16 (COMP. SIDE).

49) CUT ETCH BETWEEN 6D24 AND 1E13 (COMP. SIDE).

50) DRILL OUT 9C10 SO THERE IS NO CONTINUITY TO 9B15.

51) DRILL OUT 2C10 SO THERE IS NO CONTINUITY TO EITHER 1C9 OR 2B13.

52)

53)	ADD JUMPER FROM	4C9	TO	2A1	(ETCH SIDE).
54)		4C9		6D19	
55)		4D6		4D7	
56)		2F3		4C11	
57)		2F2		1G15	
58)	ADD JUMPER FROM	2F1	TO	6D2	(ETCH SIDE).

59) INSTALL 10K OHM, 1/4 W RESISTOR (ITEM 47) BETWEEN FEEDTHRU NEAR 9F14 (CONNECTS TO 8F13) AND 8F14 (ETCH SIDE).

60)	ADD JUMPER FROM	6D7	TO	4F25	(ETCH SIDE).
61)		6D8		4F24	
62)		6D9		4F23	
63)		6D10		4F22	
64)		6D11		4F21	
65)		6D12		4F20	
66)		6D13		4F19	
67)		6D14		4F18	
68)		6F5		6B6	
69)		6F6		6B5	
70)	ADD JUMPER FROM	6F7	TO	6B4	(ETCH SIDE).

(NOTE 2 CONT'D ON SH 5)

NTDD4-PWASSY.SIL

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(NOTE 2 CONT'D)

71)	ADD JUMPER FROM	9G12	TO	8F2 (ETCH SIDE).
72)		8C13		10G11
73)		8G12		8F11
74)		9G10		10G12
75)		7D5		8F10
76)		7D6		7D13
77)		7D4		9G4
78)		8F10		4F12
79)		9D13		2D12
80)		7D11		2D1
81)		2D2		8D2
82)		9C6		9C8
83)		8C2		7C12
84)		8C3		7C13
85)		8C4		7C14
86)		8C5		7C15
87)		8C10		7B12
88)		8C11		7B13
89)		8C12		7B14
90)		8C14		7B15
91)		9C2		9B12
92)		9C3		9B13
93)		9C4		9B14
94)		9C5		9B15
95)	ADD JUMPER FROM	9C10	TO	8B12 (ETCH SIDE).

(NOTE 2 CONT'D ON SH 6)

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ASSY, PRINTED WIRING-

DISK & DISPLAY

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(NOTE 2 CONT'D)

96) ADD JUMPER FROM 9C11 TO 8B13 (ETCH SIDE).

97) 9C12 8B14

98) 9C14 8B15

99) 9F1 10B9

100) 10B8 10F14

101) 10B10 9E2

102) 2B4 PIN 67

103) 1C9 2B13

104) 2C10 2D14

105) 4F11 9G2

106) 7F9 7F10 (ETCH SIDE).

107) 10G4 EDGE CONN PIN 54 FEEDTHRU (ETCH SIDE).

108) ~~7E1 10D1~~ (ETCH SIDE).

109) ~~8D1 2D13~~

110) 1E8 2E8

111) 1E16 2E16

112) 4B16 2D11

113) 4B19 2D3

114) 2D10 1B2

115) 2D4 1B3

116) 1A9 6D35

117) ADD JUMPER FROM 6D24 TO 1E14 (ETCH SIDE).

118) DRILL OUT 4E8 SO THERE IS NO CONTINUITY TO 2F13.

119) CUT ETCH BETWEEN 4E9 AND FEED THRU UNDER 1E (CONNECTS TO 1G15) (COMP. SIDE).

120 CUT ETCH BETWEEN 10F2 AND 8F12 (COMP. SIDE).

(NOTE 2 CONT'D ON SHEET 7)

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(NOTE 2 CONT'D)

121) ADD JUMPER FROM 8F12 TO 4E3 (ETCH SIDE).

122) ADD JUMPER FROM 4E5 TO 10F2 (ETCH SIDE).

123) ADD JUMPER FROM 4E1 TO 9F4 (ETCH SIDE).

124) ADD JUMPER FROM 4E2 TO 4E4 (ETCH SIDE).

125) ADD JUMPER FROM 4E4 TO 4D10 (ETCH SIDE).

126) ADD JUMPER FROM 2D13 TO 7E1 (ETCH SIDE).

127) ADD JUMPER FROM 7E3 TO 8D1 (ETCH SIDE).

128) ADD CAPACITOR (ITEM 61) FROM 2D13 TO 2D7 (ETCH SIDE).

129) REMOVE WIRE FROM 4E5 TO 10F2 (ETCH SIDE).

130) ADD WIRE FROM 4E1 TO 4E13 (ETCH SIDE).

131) ADD WIRE FROM 4E5 TO 4E12 (ETCH SIDE).

132) ADD WIRE FROM 4E2 TO 4E10 (ETCH SIDE).

133) ADD WIRE FROM 10C11 TO 4E11 (ETCH SIDE).

134) ADD WIRE FROM 4E8 TO PL-11 (FEED THRU HOLE NEAR 6A) (ETCH SIDE).

135) ADD WIRE FROM 4E9 TO 9E2 (ETCH SIDE).

136) CUT ETCH BETWEEN 10F6 AND FEED THRU UNDER 10E (CONNECTS TO 9E2) (ETCH SIDE).

137) CUT ETCH BETWEEN 10F7 AND P-11 (COMP. SIDE).

138) CUT ETCH BETWEEN 10C11 AND FEED THRU NEAR 10F13 (CONN TO 10F4) (ETCH SIDE).

139) CUT ETCH BETWEEN 10F1 AND FEED THRU NEAR 10F4 (CONNECTS TO 9F4) (ETCH SIDE).

140) CUT ETCH BETWEEN 10F3 AND 10F5 (ETCH SIDE).

141) CUT ETCH BETWEEN 10E4 AND 9E13 (COMP. SIDE).

142) ADD WIRE FROM 10E4 TO 9E12 (ETCH SIDE).

143) CUT ETCH BETWEEN 10G3 AND 10G2 (ETCH SIDE).

144) CUT ETCH BETWEEN 10G8 AND 10G9 (ETCH SIDE).

(NOTE 2 CONT'D ON SH 7B)

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Title

ASSY, PRINTED WIRING-

DISK & DISPLAY

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Sheet 7 Of

(NOTE 2 CONT'D FROM SH 7)

145) CUT ETCH BETWEEN 10G9 AND FEED THRU ABOVE Q1 (CONN TO 4F10) (COMP.SIDE).

146) ADD WIRE FROM 10G2 TO 10G9 (ETCH SIDE).

147) ADD WIRE FROM 10F6 TO 10G3

148) ADD WIRE FROM 10F7 TO 10G8

149) ADD WIRE FROM 10F1 TO 10E2

150) ADD WIRE FROM 10F2 TO 10F3

151) ADD WIRE FROM 10F3 TO 4F25

152) ADD WIRE FROM 10F4 TO 10C8 (ETCH SIDE).

153) CUT ETCH BETWEEN 4F8 AND 7F10 (COMP. SIDE).

154) REMOVE JUMPER FROM 7F10 TO 7F9 (ETCH SIDE).

155) CUT ETCH BETWEEN 7F8 AND FEED THRU (CONN TO P2-44) (ETCH SIDE).

156) ADD WIRE FROM 4F8 TO 10A13 (ETCH SIDE).

157) ADD WIRE FROM 10A12 TO FEED THRU THAT CONN TO P2-44 (ETCH SIDE).

158) CUT ETCH BETWEEN 2G9 AND 1G11 (COMP. SIDE).

159) ADD WIRE FROM 2G9 TO 1F15 (ETCH SIDE).

160) ADD WIRE FROM 10C9 TO 1G7 (ETCH SIDE).

161) ADD WIRE FROM 10C10 TO 7E2 (ETCH SIDE).

162) CUT ETCH BETWEEN 1G11 AND FEED THRU (CONN TO 1F15) (ETCH SIDE).

163) DRILL OUT 2F4 SO THERE IS NO CONTINUITY TO 6F22.

164) ADD WIRE FROM 2F4 TO 2F5 (ETCH SIDE).

165) Remove 36MHZ Xtal ~~from~~ socket from board and solder oscillator directly in.

166) Make connection noted on page 15 (Reg Ctr Reset '→ Load Seq Addr')

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Title: ASSY, PRINTED WIRING- DISK & DISPLAY

Xerox Corporation
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XEROX

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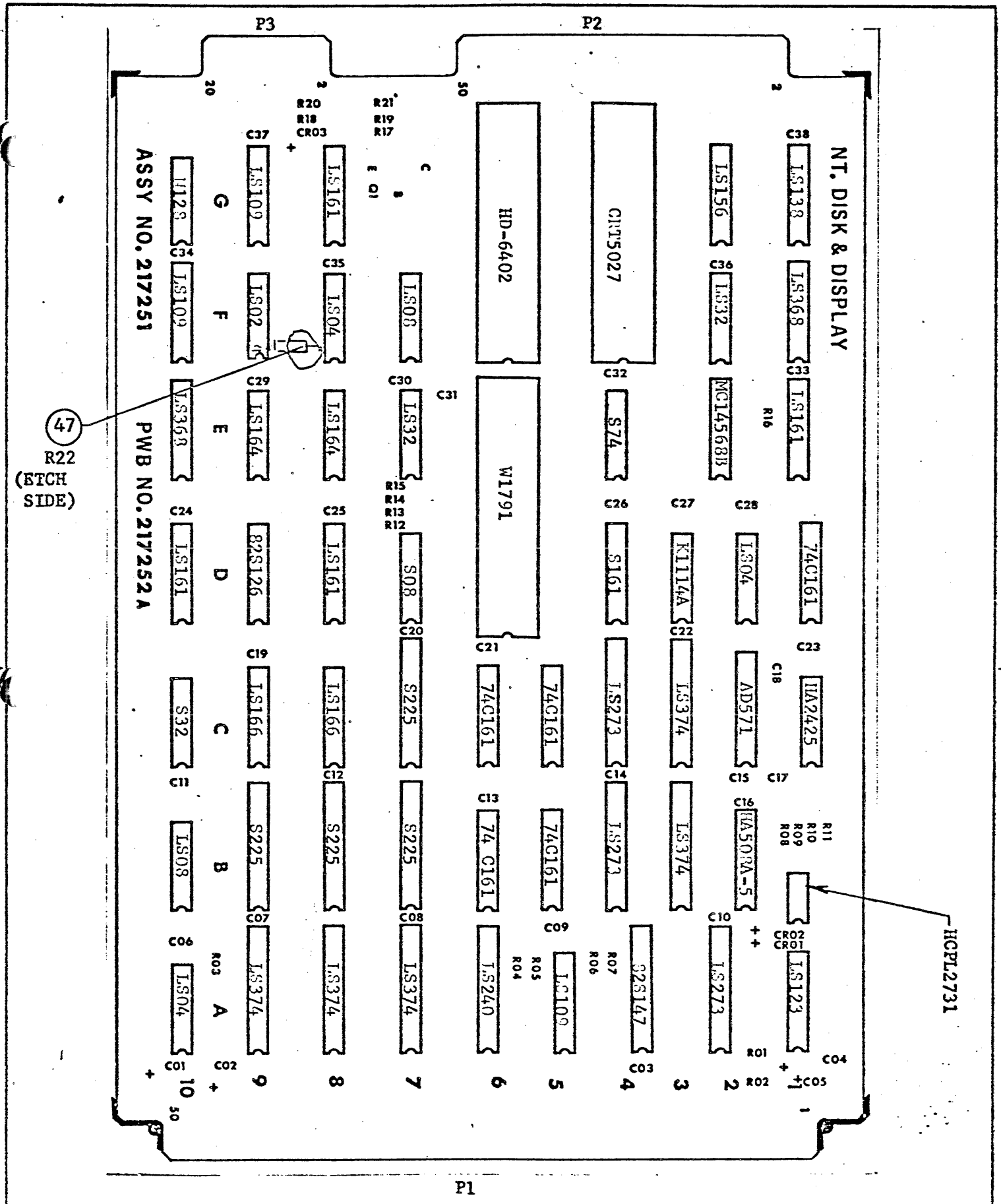
Sheet 7B Of



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Title
ASSEMBLY, P W-
DISK & DISPLAY

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217251

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701 South Aviation Boulevard
El Segundo, California 90245

XEROX

MATERIAL LIST

ML	Drawing No.	Rev.
	217251	H

Rev. H

Drawing Title

ASSEMBLY, PRINTED WIRING-

DISK & DISPLAY

NTDD8-PWASSY.SIL

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Model No.	Date	Sheet
NOTETAKER	4-2-79	9 of

2172511

Item No.	Drawing Title	Drawing No.	No. Req.	Remarks
1	BOARD, PW - DISK & DISPLAY	217252	1	
2	MICROCIRCUIT, MC14568B MOTOROLA		1	E2
ML 3	74C161 NATIONAL		5	B5,B6,C5,C6,D1
4	82S126 SIGNETICS		1	D9
5	82S147 SIGNETICS		1	A4
6	CRT5027 STD MICROSYS		1	F4
7	HA2425 HARRIS		1	C1
8	HA508A-5 HARRIS		1	B2
9	HD-6402 HARRIS		1	F6
10	74 LS02 TI		1	F9
11	74 LS04		2	A10,D2
12	74 LS08		2	B10,F7
13	74 LS32		2	E7 , F2
14	74 S74		1	E4
15	74 LS109		3	A5,F10,G9
16	74 LS123		1	A1
17	74LS138		1	G1
18	74 LS155		1	G2
19	74 LS161		4	D8,D10,E1,G8
20	74 LS164		2	E8,E9
21	74 LS240		1	A6
22	74 LS273		3	A2,B4,C4
23	74 LS368		2	E10,F1
24	74 LS374		5	A7,A8,A9,B3,C3
25	74 LS166		2	C8,C9
26	74 S08		1	D7
27	74S32		2	C10,F2
28	74S161		1	D4
29	74S225		4	B7,B8,B9,C7
30	MICROCIRCUIT, 74128 TI		1	G10

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XEROX

MATERIAL LIST

ML	Drawing No.	Rev.
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Rev. H

Drawing Title

ASSEMBLY, PRINTD WIRING-
DISK & DISPLAY

NTDD9-PWASSY.SIL

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Model No.	Date	Sheet
NOTETAKER	4-2-79	10 of

Item No.	Drawing Title	Drawing No.	No. Req.	Remarks
31	MICROCIRCUIT, HCPL2731 HEWLETTPACK.		1	B1
32	MICROCIRCUIT, AD571 ANALOG DEV		1	C2
33	MICROCIRCUIT, W1791 WESTERN DIGIT.		1	D6
34	CAPACITOR, .047 UF, CER. AVX DG015C473M		31	C3,6-14,16,19-38
35	CAPACITOR, 22 UF, TANT. SPRAGUE 196D226X9015KA1		2	C1,2
36	CAPACITOR, 2.2 UF, TANT. CORNING MZA035-225-R-20		1	C4
37	CAPACITOR, 4.7 UF, TANT. CORNING MZA015-475-R-20		1	C5
38	CAPACITOR, .001 UF, CER. SPRAGUE CK05BX102K		1	C18
39	CAPACITOR, .01 UF, CER DISC SPRAGUE CK05BX103		2	C15,17
40	DIODE 1N914 (MOTOROLA)		3	CR1,2,3
41	TRANSISTOR, PNP 2N2905		1	Q1
42				
43	OSCILATOR, 36MHZ K1114A (MOTOROLA)		1	D3
44	RESISTOR, 150K 5%, 1/4 W FILM OR CARBON COMP		1	R1
45	180K		1	R2
46	10K		7	R3,5,9,12,16,17,22
47	5.1K		1	R8
48	18K		1	R6
49	2K		2	R7,19
50	1K		3	R10,11,21
51	510 OHM		1	R18
52	200 OHM		1	R20
53	RESISTOR, 150 OHM 5%, 1/4 W FILM OR CARBON COMP		4	R4,13,14,15
54				
55	SOCKET, IC 8 PIN AUGAT #508-AG11D		1	
56	SOCKET, IC 14 PIN AUGAT #514-AG11D		15	
57	SOCKET, IC 16 PIN AUGAT #516-AG11D		23	
58	SOCKET, IC 18 PIN AUGAT #518-AG11D		1	
59	SOCKET, IC 20 PIN AUGAT #520-AG11D		14	
60	SOCKET, IC 40 PIN AUGAT #540-AG11D		3	

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MATERIAL LIST

ML	Drawing No.	Rev.
	217251	H

Rev. H

Drawing Title

ASSEMBLY, PRINTED WIRING-
DISK & DISPLAY

NTDD10-PWASSY.SIL

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Model No.	Date	Sheet
NOTETAKER	4-2-79	11 Of

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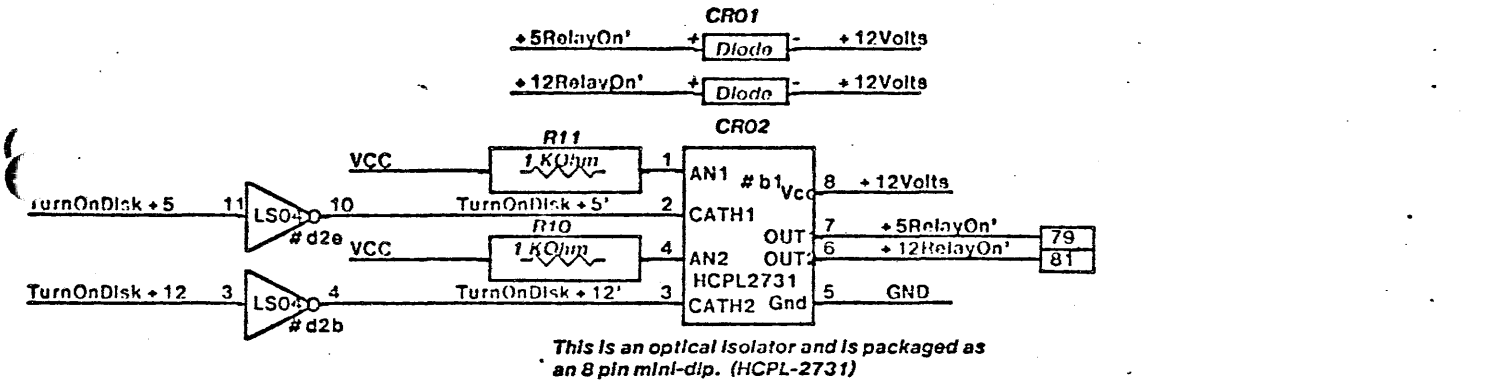
2 1 7 2 5 1

ML

Item No.	Drawing Title		Drawing No.	No. Req.	Remarks
61	CAPACITOR, 330 PF CER	SPRAGUE CK05BX331K		1	C39
62	MICROCIRCUIT 74S04	TI		1	F8
63	MICROCIRCUIT 74S163	TI		1	D4
64					
65					



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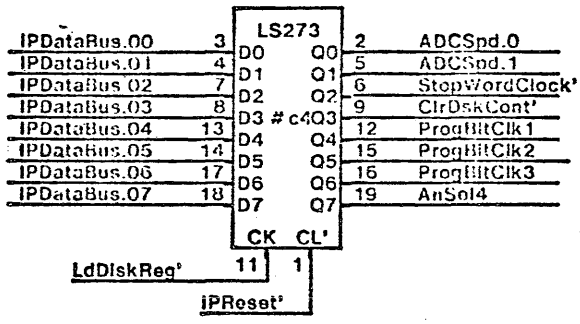
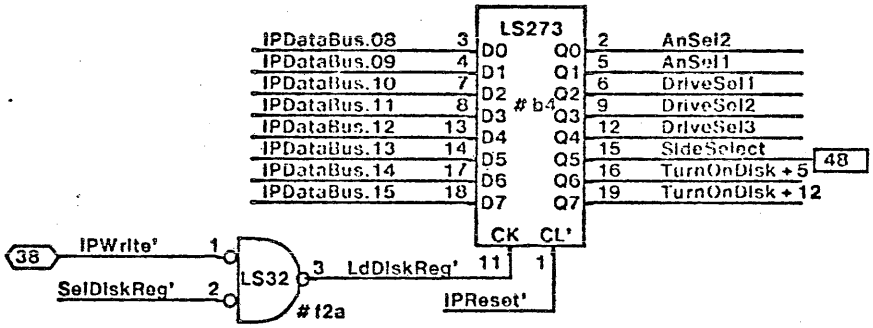
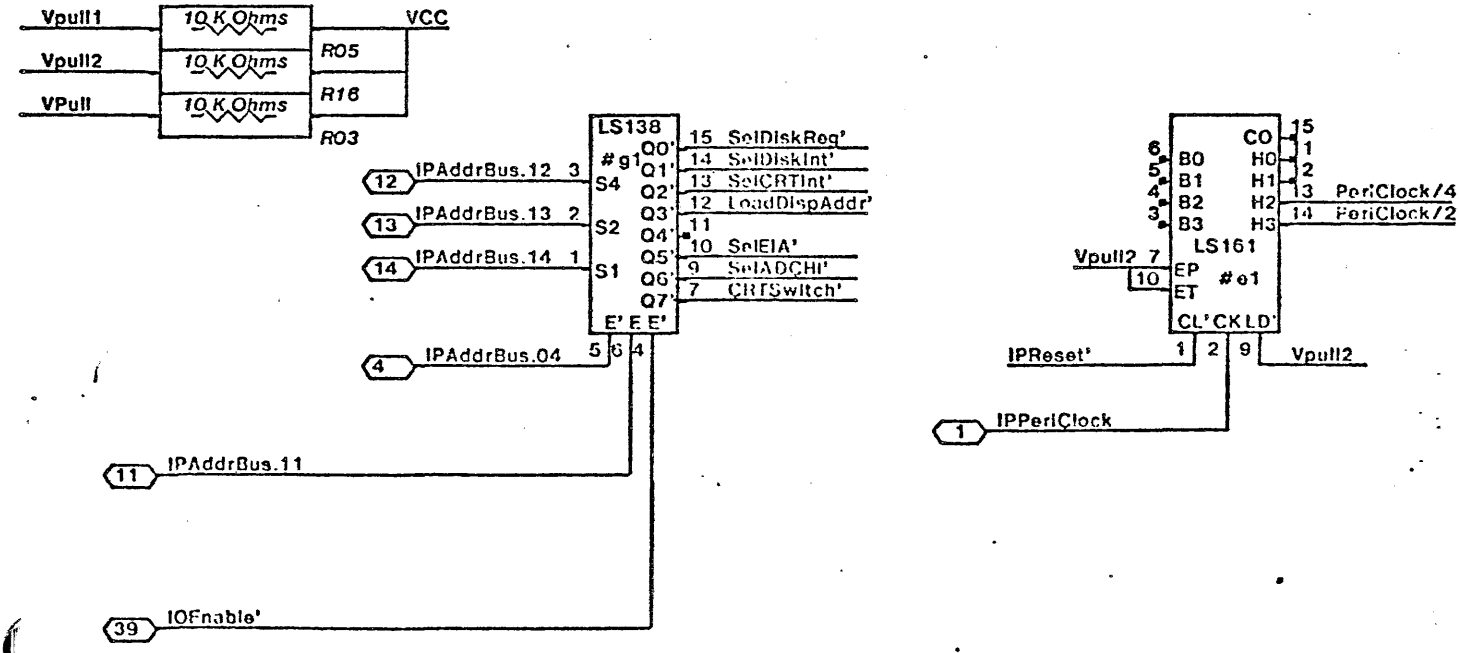
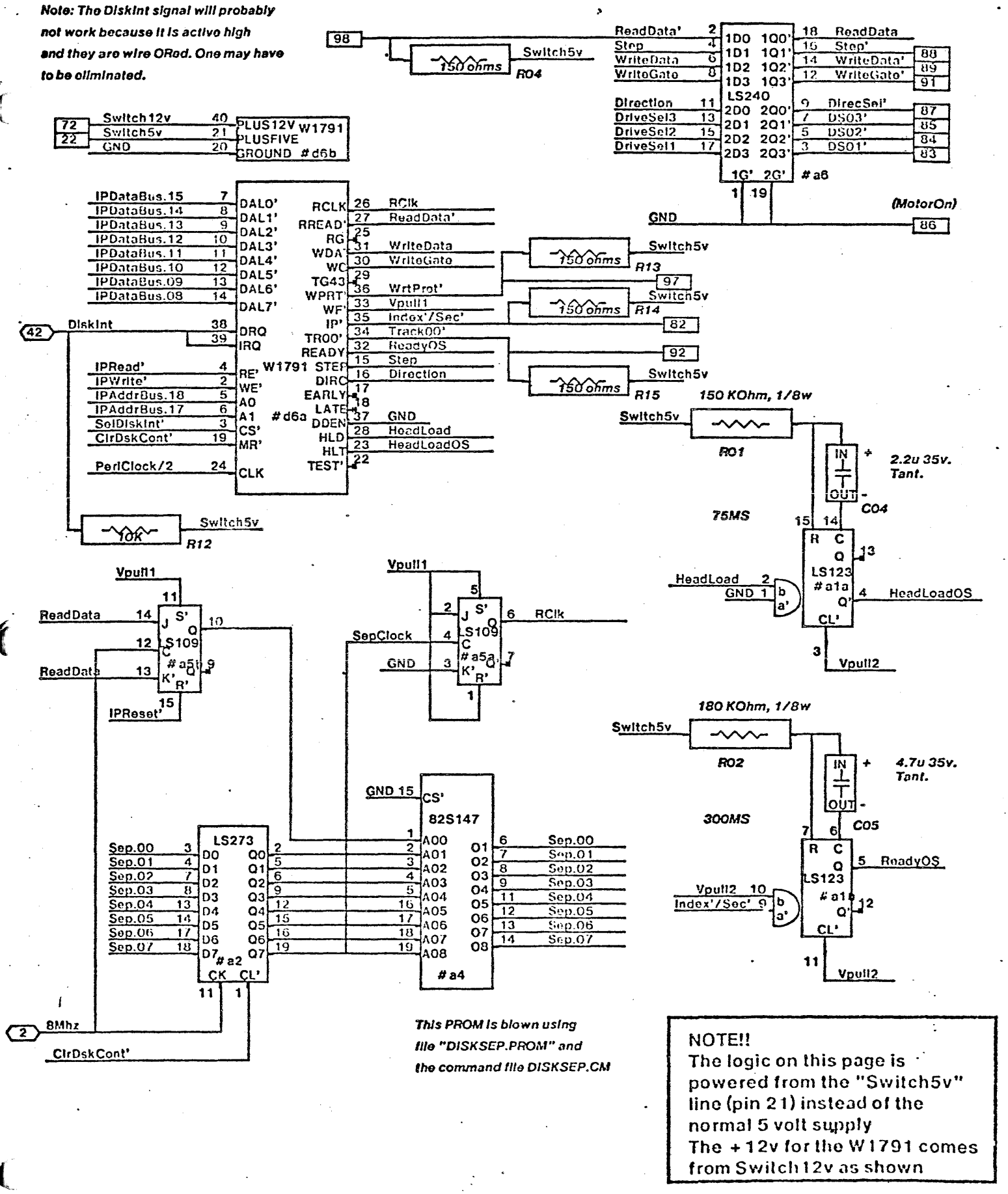


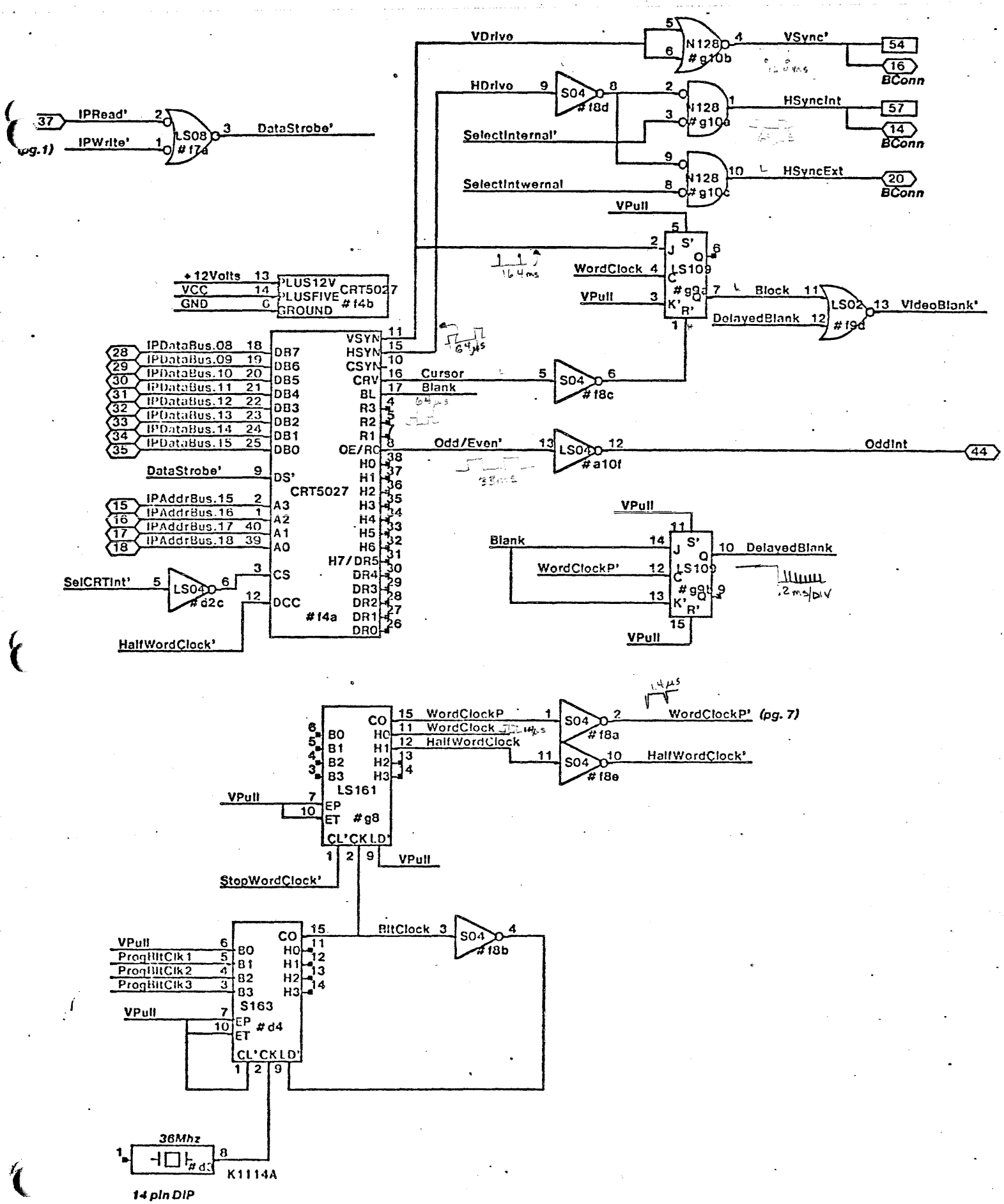




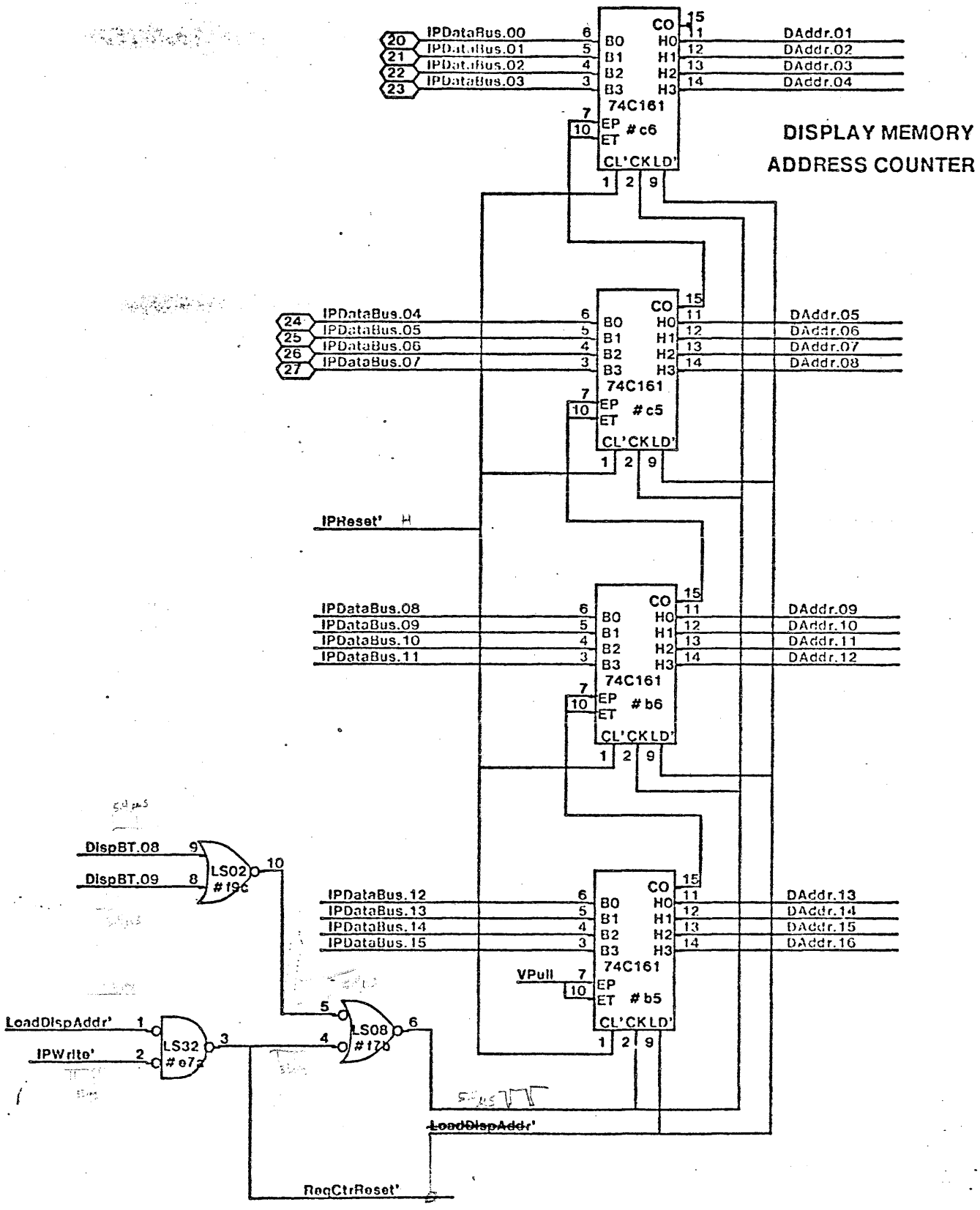
XEROX SPG	Project NoteTaker	Disk/Display Controlle	File PNTDD01.sil	Date 4/19/79	Dwg. No. 217251	Rev H	Page 12
			Designer FREEMAN				



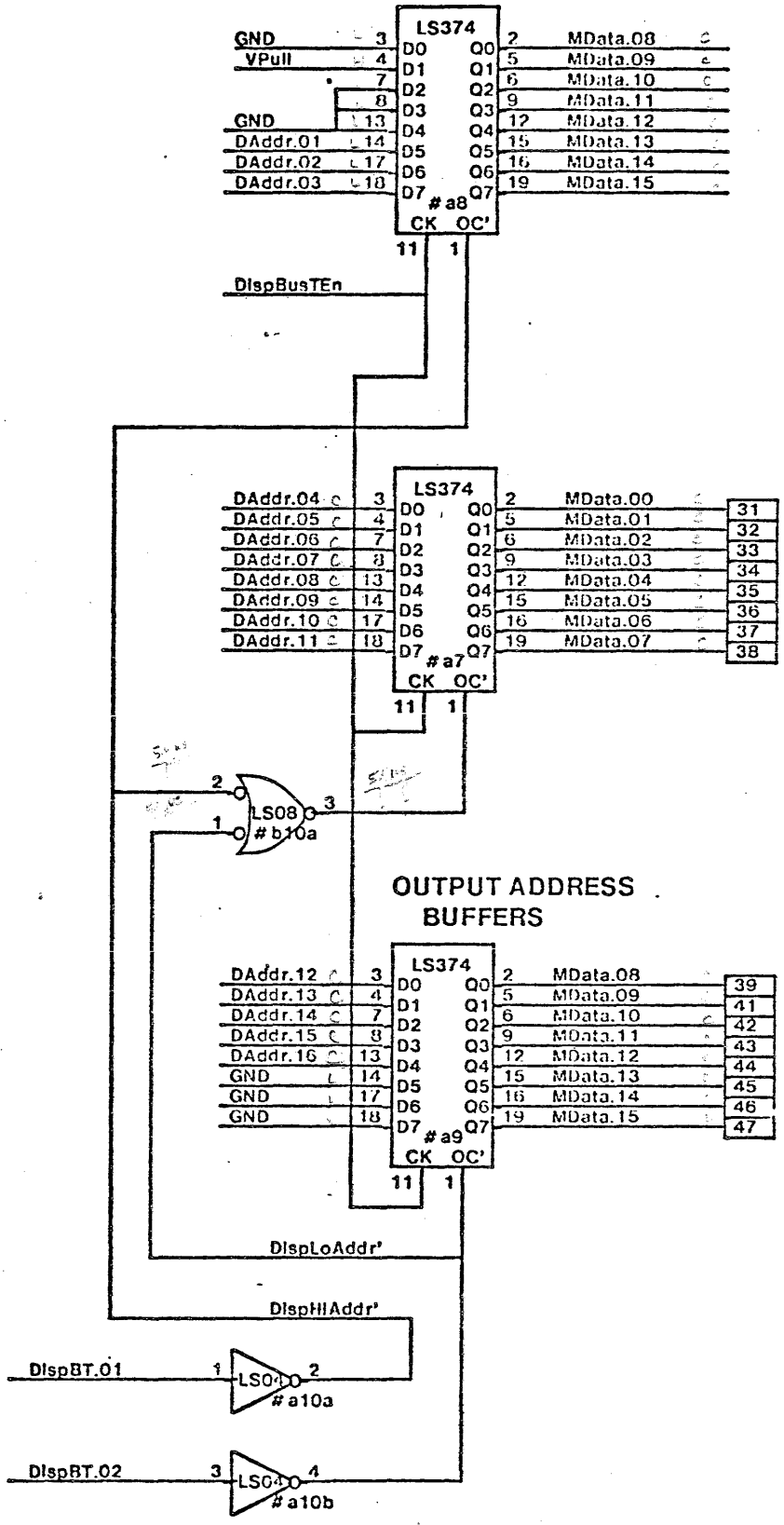
XEROX SPG	Project NoteTaker	Disk/Display Module Floppy Disk Controller	File PNTDD02.sil Designer FREEMAN	Date 4/19/79	Dwg. No. 217251	Rev H	Page 13



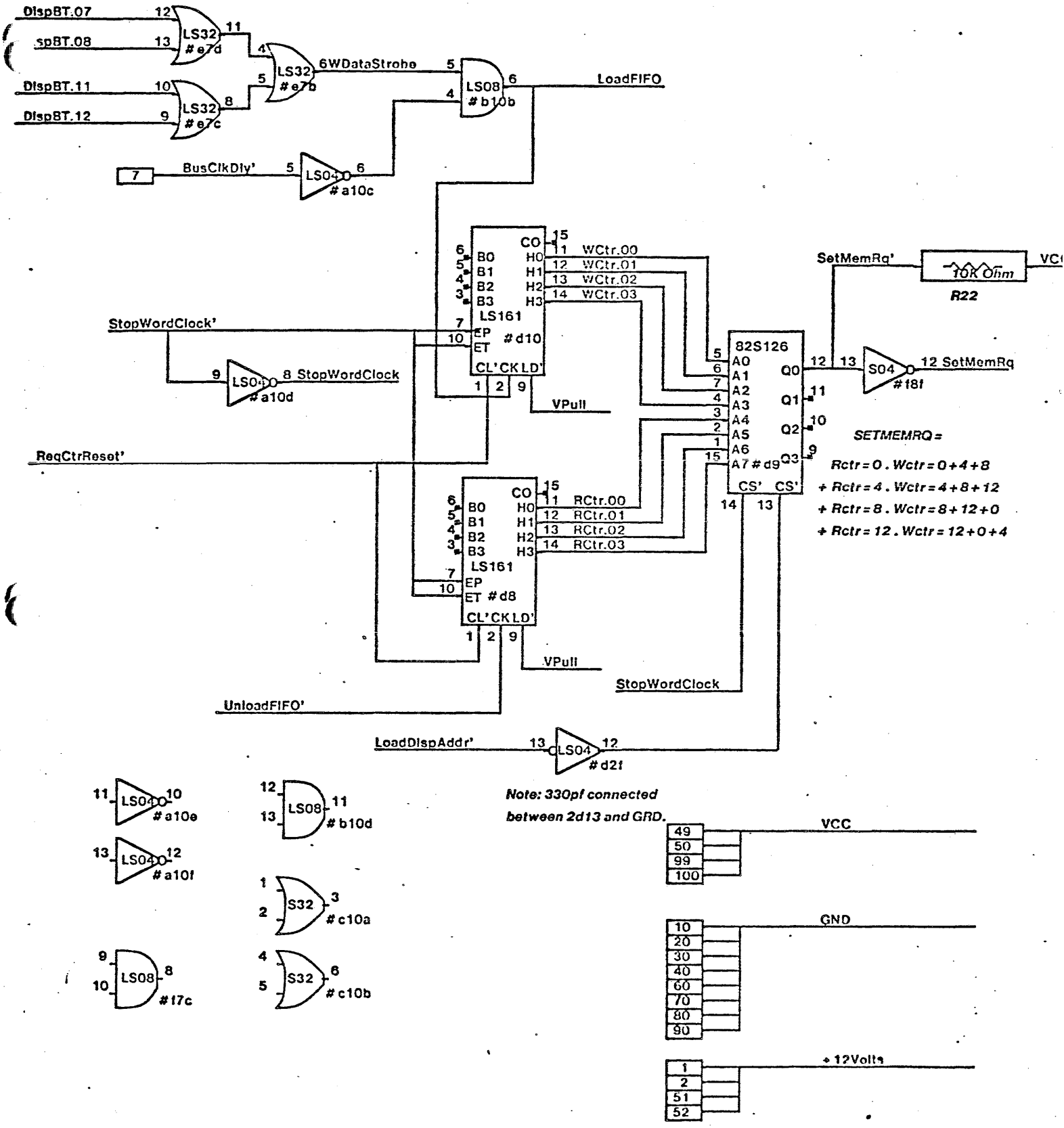
XEROX SPG	Project NoteTaker	Disk/Display Controller	File PNTDD03.sil Designer Ron Freeman	Date 4/19/79	Dwg. No. 217251	Rev H	Page 14



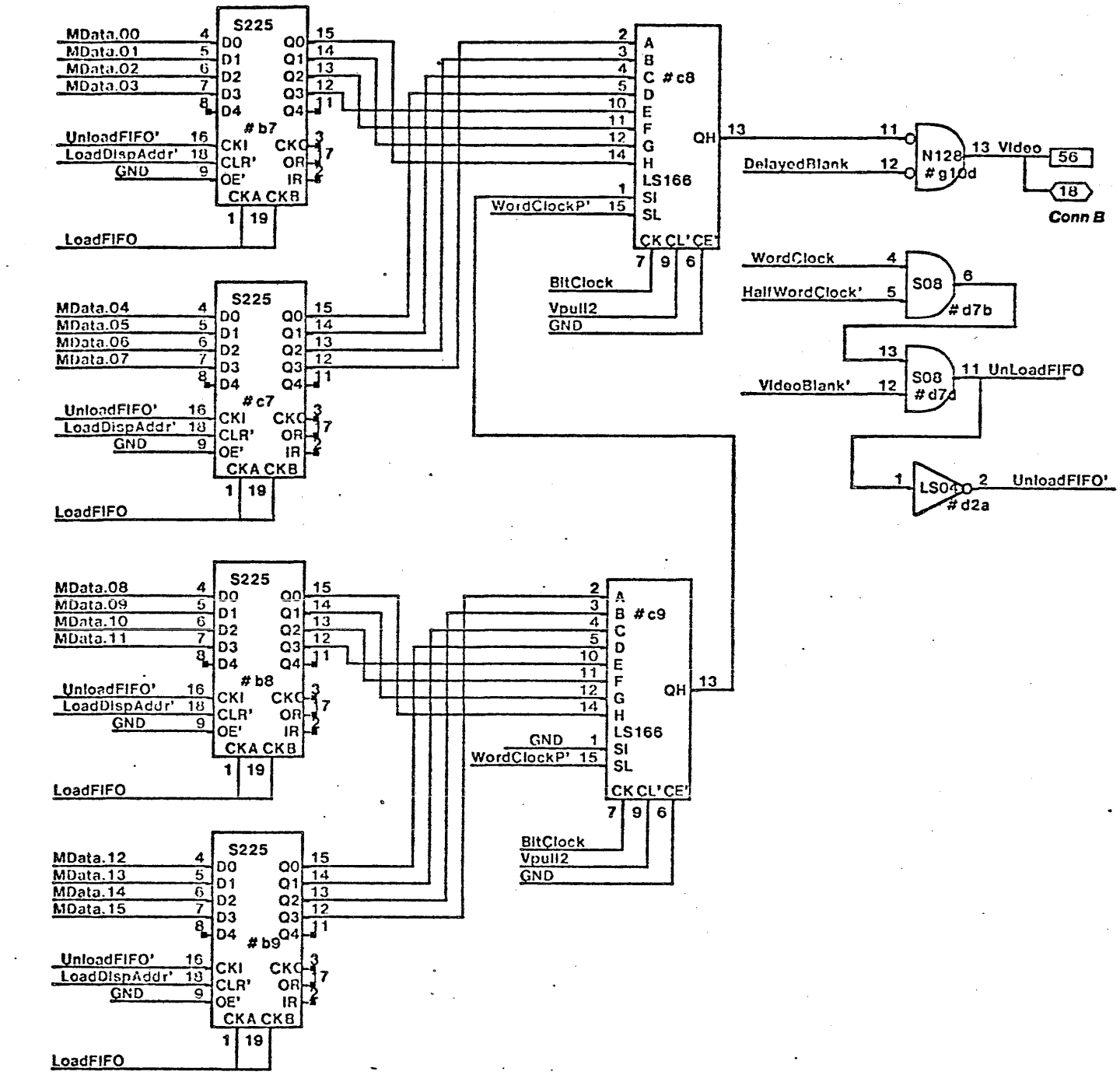
XEROX SPG	Project NoteTaker	Disk/Display Controller Display Address Counter	File PNTDD04.sil Designer FREEMAN	Date 4/19/79	Dwg. No. 217251	Rev H	Page 15

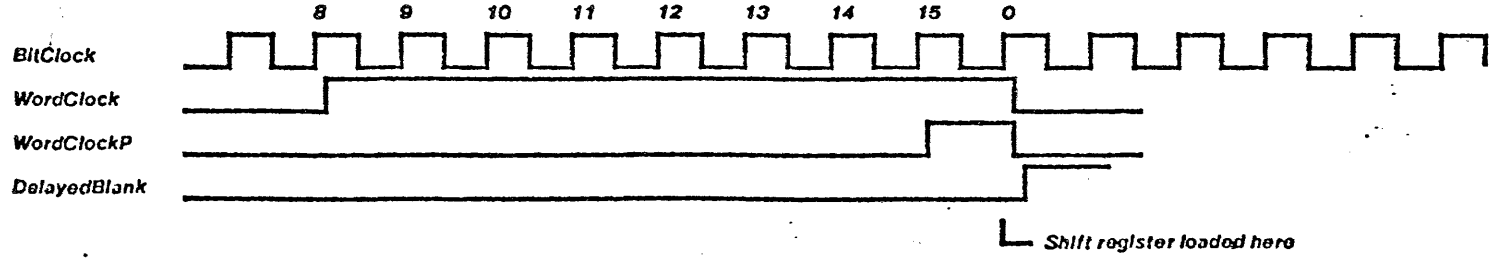


XEROX SPG	Project NoteTaker	Disk/Display Module Output Address Buffers	File PNTDD05.sil Designer FREEMAN	Date 4/19/79	Dwg. No. 217251	Rev H	Page 16

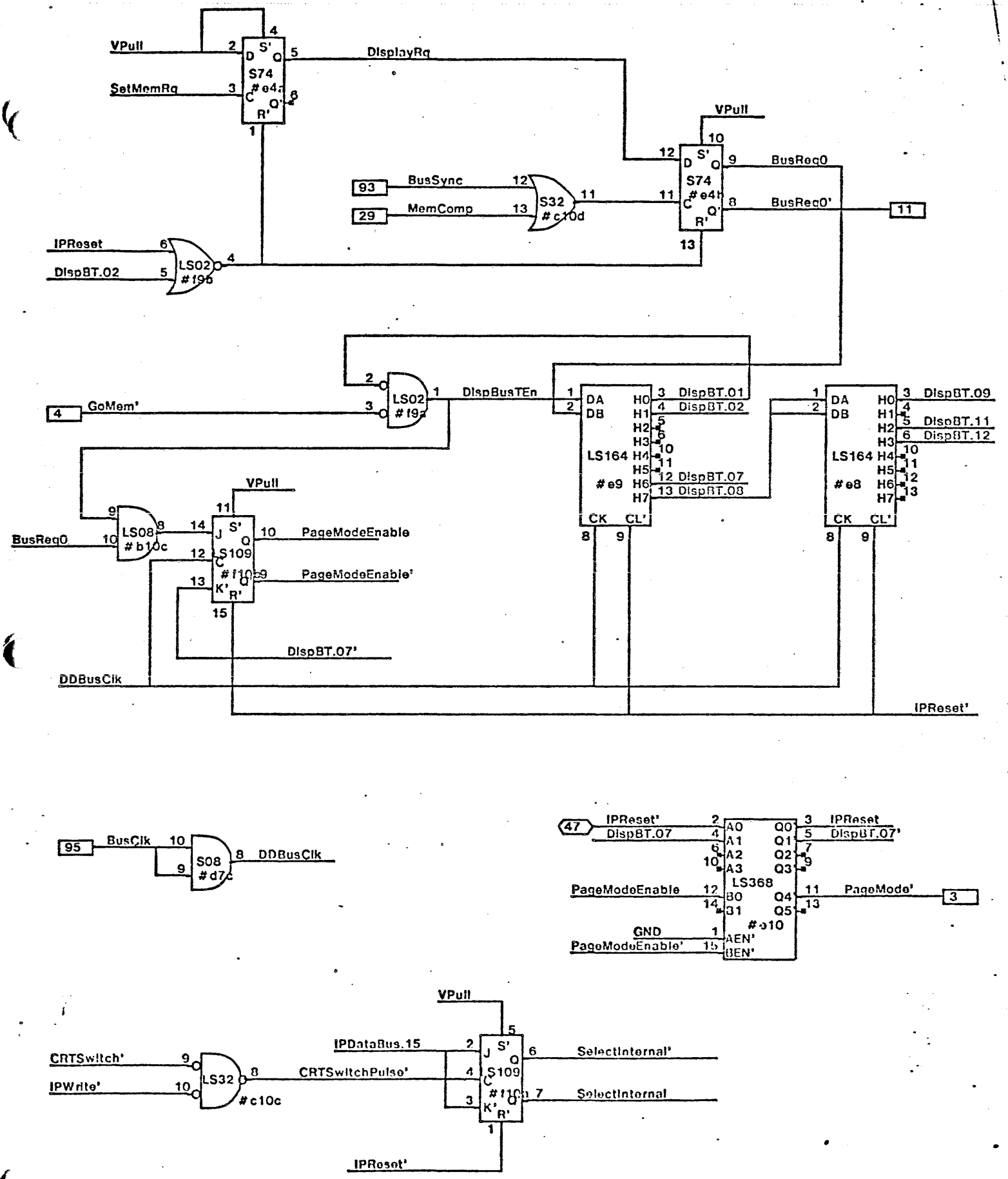


XEROX SPG	Project NoteTaker	Disk/Display Module FIFO Control Logic	File PNTDD06.sil	Date 4/19/79	Dwg. No. 217251	Rev H	Page 17
			Designer FREEMAN				



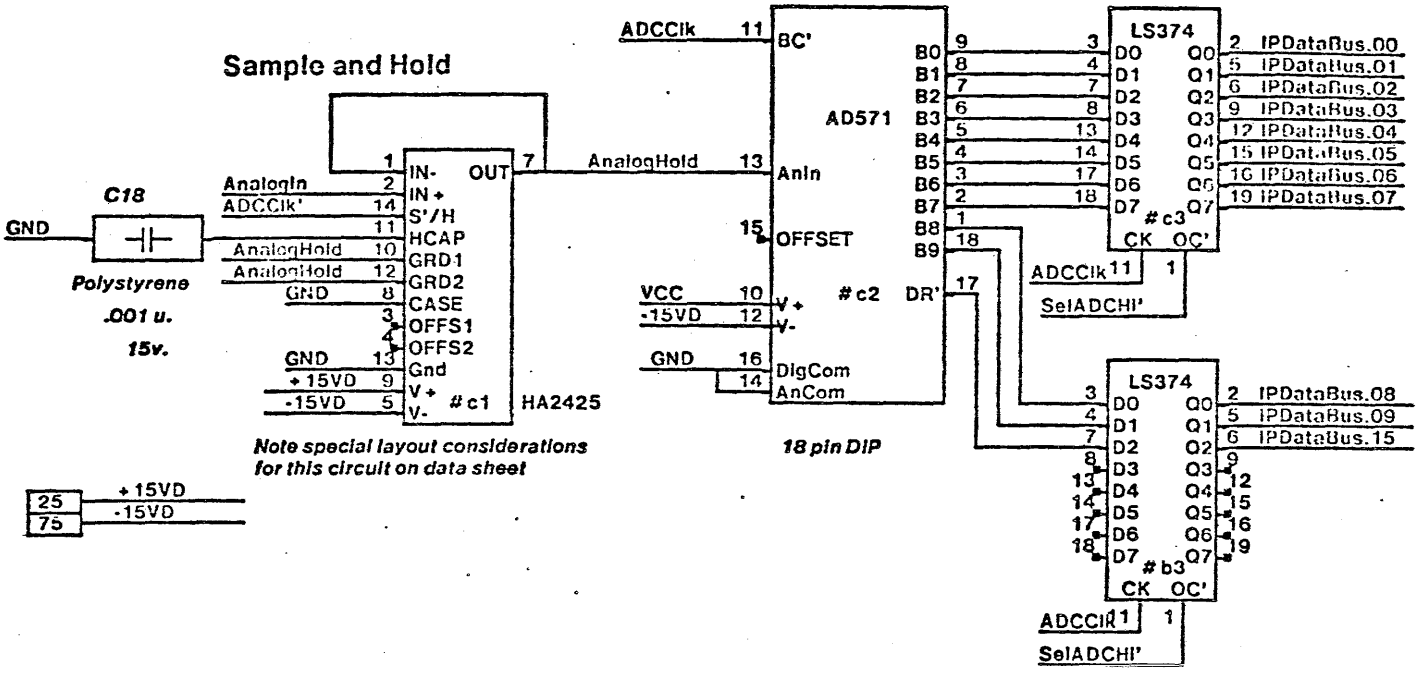


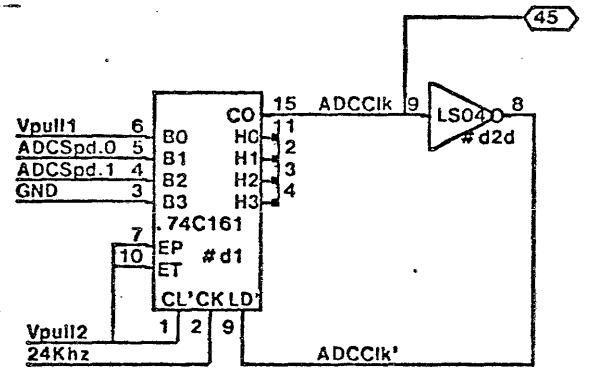
XEROX SPG	Project NoteTaker	Disk/Display Module Display Buffers (FIFOs)	File PNTDD07.sil Designer FAIRBAIRN	Date 4/19/79	Dwg. No. 217251	Rev H	Page 18



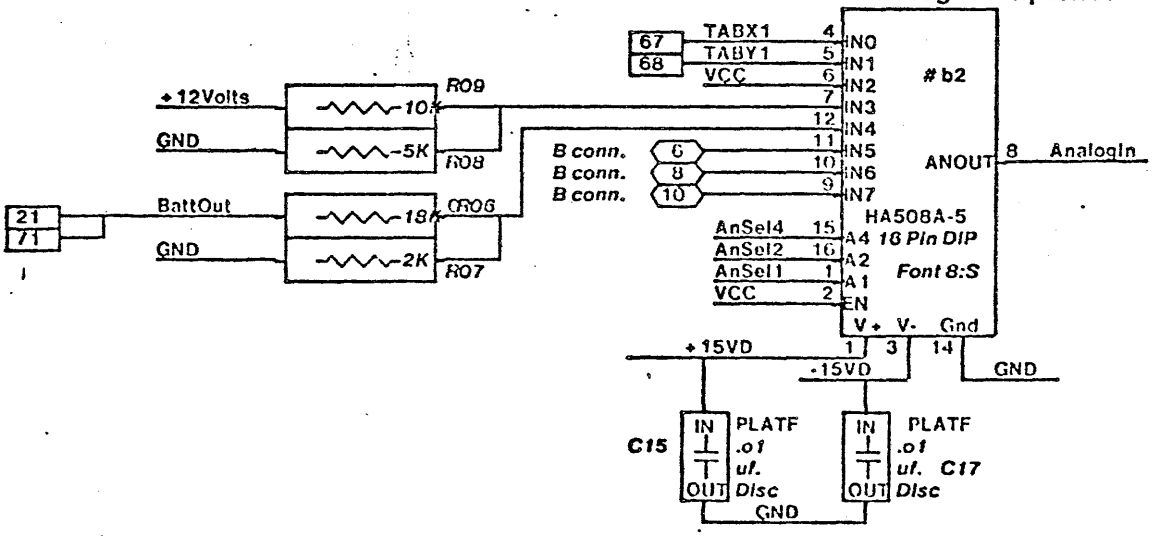
XEROX SPG	Project NoteTaker	Disk/Display Controller Memory Bus Timing	File PNTDD08.sil Designer FREEMAN	Date 4/19/79	Dwg. No. 217251	Rev H	Page 19

Sample and Hold

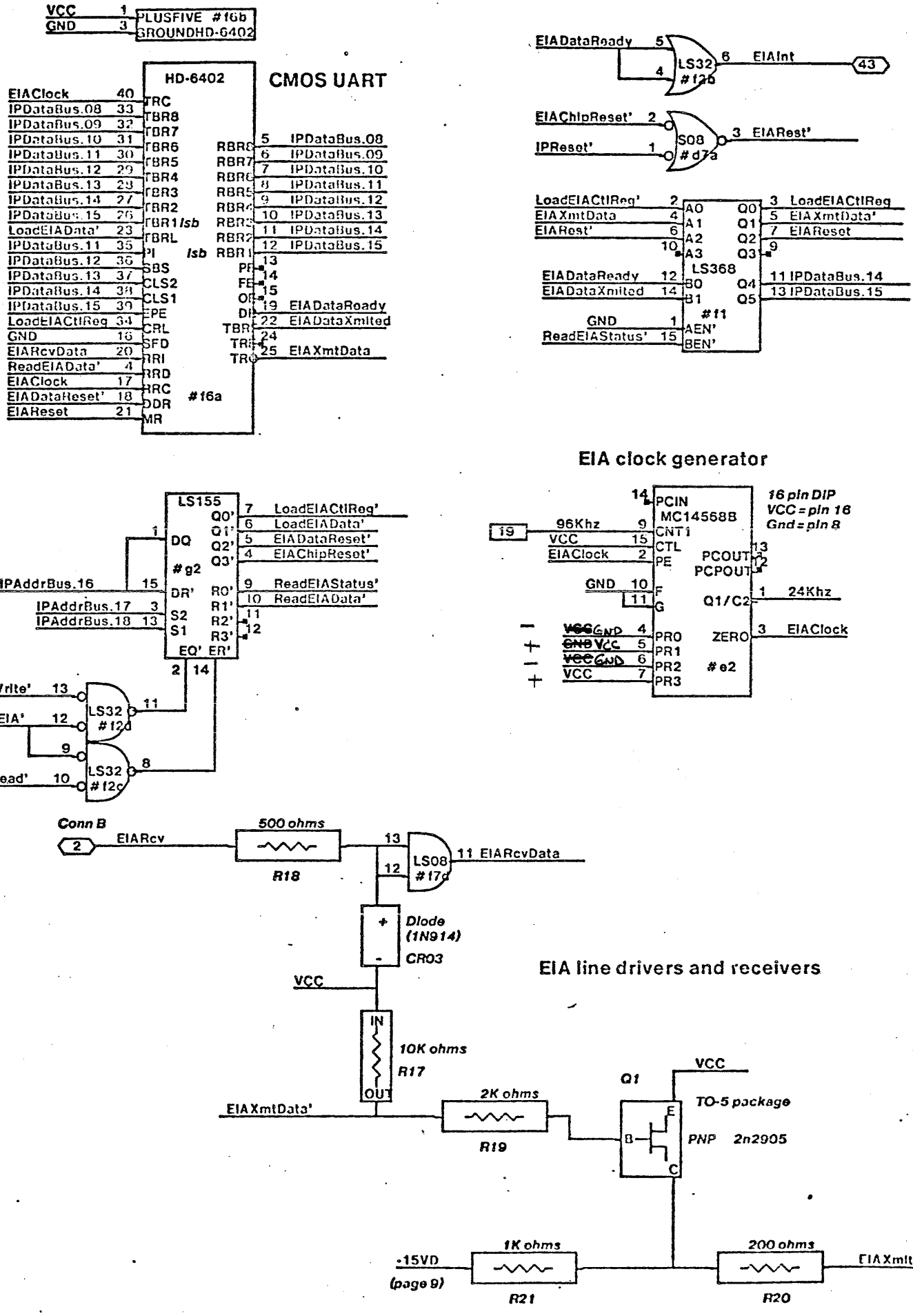




Analog Multiplexer



XEROX SPG	Project NoteTaker	Disk/Display Module A/D Converter	File PNTDD09.sil Designer FAIRBAIRN	Date 4/19/79	Dwg. No. 217251	Rev H	Page 20



XEROX SPG	Project NoteTaker	Disk/Display Module EIA interface	File PNTDD10.sil Designer Ron Freeman	Date 4/19/79	Dwg. No. 217251	Rev H	Page 21