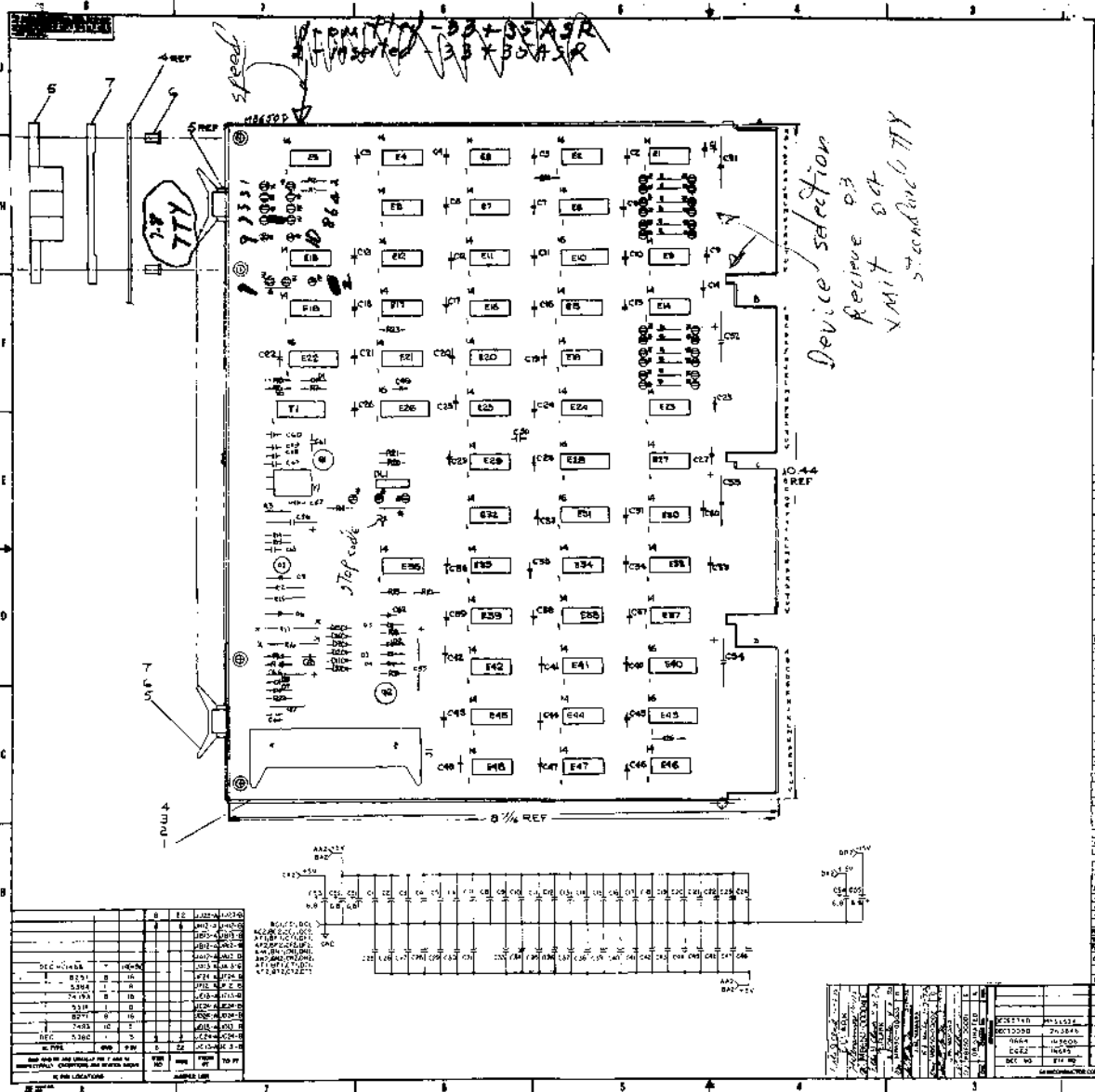


MASTER DRAWING LIST

MAINTENANCE MANUALS			UNIT VARIATIONS														
			KL8-E	KL8-EA	KL8-EB	KL8-EC	KL8-ED	KL8-EE	KL8-EF	KL8-EG							
NO.	TITLE																
KL8-E	ASYNC DATA CONTROL		X	X	X	X	X	X	X	X							
USED ON OPTIONS																	
PDP8/E																	
PDP8/M																	
REVISIONS	REV.	DATE	CHG. NO.	APP.D.	DRN	DATE	digital EQUIPMENT CORPORATION <small>MAYNARD, MASSACHUSETTS</small>										
					CHK'D												
					ENG		TITLE										
					MCNAMARA		ASYNC DATA CONTROL										
					PROJ. ENG.		DATE										
					VOGELSANG		DATE										
					PROD		DATE										
					L. SAYLOR		DATE										
							FIRST USED ON										
							PDP8/E					SIZE CODE	NUMBER	REV			
							SCALE					A ML	KL8-E	F			
							SHEET 1 OF 2		DIST.								

PRINT SET					REV. LET.	NO. OF SHEETS	TITLE	OPTION NO.			
KL8-E									DWG. NO.		
X					E-CS-M8650-0-1	#	2	ASYNC. DATA CONTROL			
X					E-CS-M8650-YA-1	#	2	ASYNC. DATA CONTROL			
X					D-1A-700B360-0-0		1	CABLE ASSY			
X					D-1A-BC01V-25-0		1	CABLE ASSY			
X					A-SP-KL8-E-1		16	ENGINEERING SPECIFICATIONS			
X					A-PL-KL8-E-0		1	ASYNC. DATA CONTROL			
					A-SP-KL8-E-2		10	TEST PROCEDURE			
					A-SP-KL8-E-3	A	5	ACCEPTANCE			
					LINKIT-8E-KL8-E-02	REF	1	KIT LIST			
X					A-AL-KL8-E-4		1	ACCESSORY LIST			
TITLE					ASYNC. DATA CONTROL		SHEET 2 OF 2		SIZE CODE	NUMBER	REV
									A ML	KL8-E	F



NOTES

1. ~~SPLIT LOSS~~

2. ~~MACHINE INSERTED JUMPER~~

3. ~~740 PIN HEADER CONNECTION~~

DATA: ~~OMNIBUS CONNECTION~~

2. PIN 2 IS VIA TRANSMITTED DATA:

3. PIN 3 IS VIA REQUEST TO SEND, 4, 5 OR MORE = 0N (PERMANENTLY).

4. PIN 4 IS VIA DATA TERMINAL READY, 6V OR MORE = 0N (PERMANENTLY).

5. THIS DRAWING FOLLOWS DEC STANDARD 056 LOGIC SYMBOLS.

6. FLIP-FLOPS ARE NAMED FOR THE CONDITION THEY REPRESENT IN THE 1 STATE. THE FOLLOWING FIGURES APPLY.

IF 1 SHOWN THIS IS STATE 1 STATE 0 STATE

IF 0 SHOWN THIS IS STATE 0 STATE 1 STATE

IF 1 SHOWN THIS LEAD IS HIGH WHEN FLIP-FLOP IS IN 1 STATE.

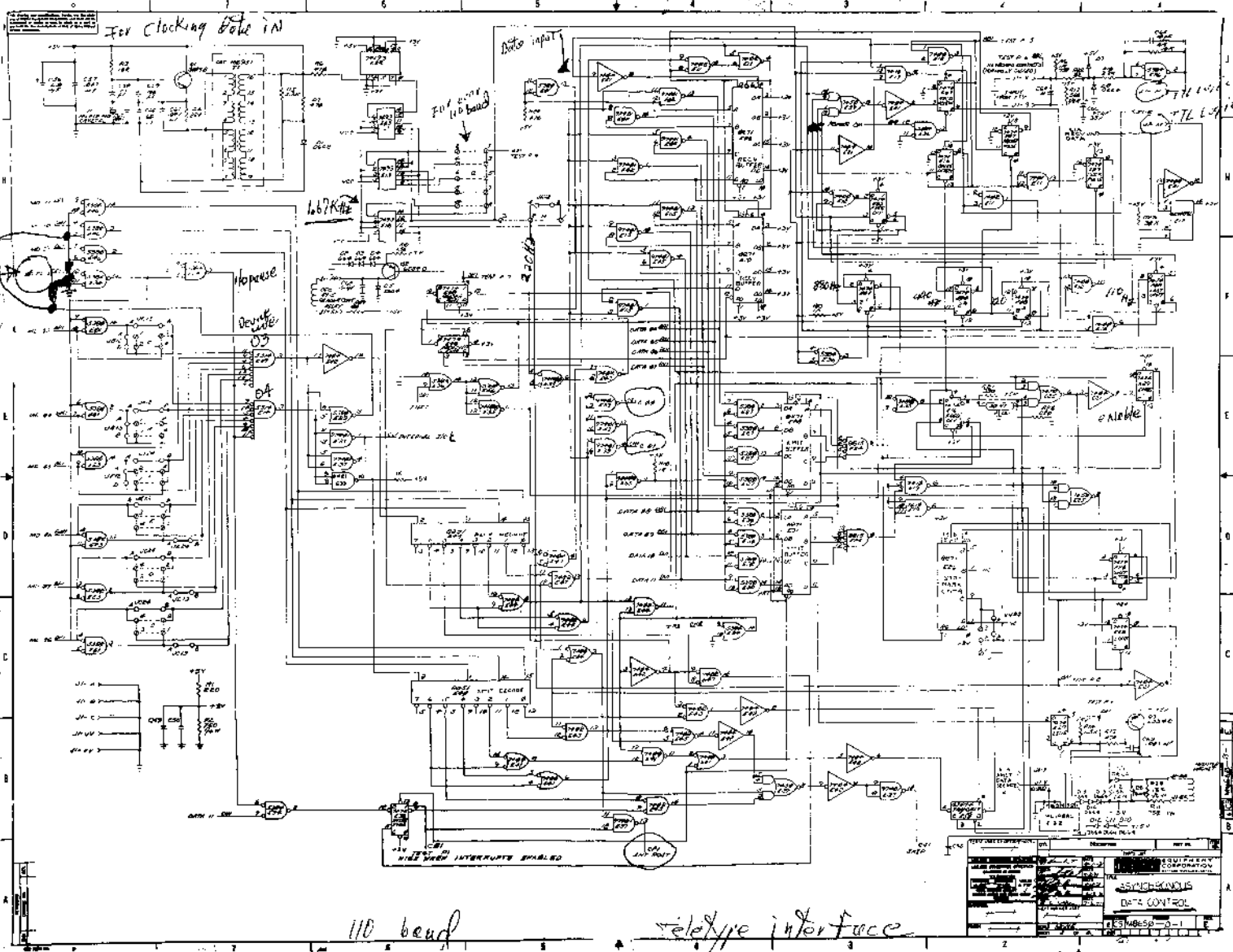
IF 0 SHOWN THIS LEAD IS LOW WHEN FLIP-FLOP IS IN 1 STATE.

A WAVEFORM AT TEST POINT #6 FOR RECEPTION OF 'A' (ASCII 01000100)

RESISTORS - 1/4 WATT 5% CAPACITORS - 5% TOLERANCE UNLESS OTHERWISE NOTED

SYMBOL	VALUE	QTY	DESCRIPTION
R1A	100K	1	RESISTOR
R1B	100K	1	RESISTOR
R1C	100K	1	RESISTOR
R1D	100K	1	RESISTOR
R1E	100K	1	RESISTOR
R1F	100K	1	RESISTOR
R1G	100K	1	RESISTOR
R1H	100K	1	RESISTOR
R1I	100K	1	RESISTOR
R1J	100K	1	RESISTOR
C1	100P	1	CAPACITOR
C2	100P	1	CAPACITOR
C3	100P	1	CAPACITOR
C4	100P	1	CAPACITOR
C5	100P	1	CAPACITOR
C6	100P	1	CAPACITOR
C7	100P	1	CAPACITOR
C8	100P	1	CAPACITOR
C9	100P	1	CAPACITOR
C10	100P	1	CAPACITOR
C11	100P	1	CAPACITOR
C12	100P	1	CAPACITOR
T1	7401	1	IC
E1	7401	1	IC
E2	7401	1	IC
E3	7401	1	IC
E4	7401	1	IC
E5	7401	1	IC
E6	7401	1	IC
E7	7401	1	IC
E8	7401	1	IC
E9	7401	1	IC
E10	7401	1	IC
E11	7401	1	IC
E12	7401	1	IC
E13	7401	1	IC
E14	7401	1	IC
E15	7401	1	IC
E16	7401	1	IC
E17	7401	1	IC
E18	7401	1	IC
E19	7401	1	IC
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E58	7401	1	IC
E59	7401	1	IC
E60	7401	1	IC
E61	7401	1	IC
E62	7401	1	IC
E63	7401	1	IC
E64	7401	1	IC
E65	7401	1	IC
E66	7401	1	IC
E67	7401	1	IC
E68	7401	1	IC

M18630



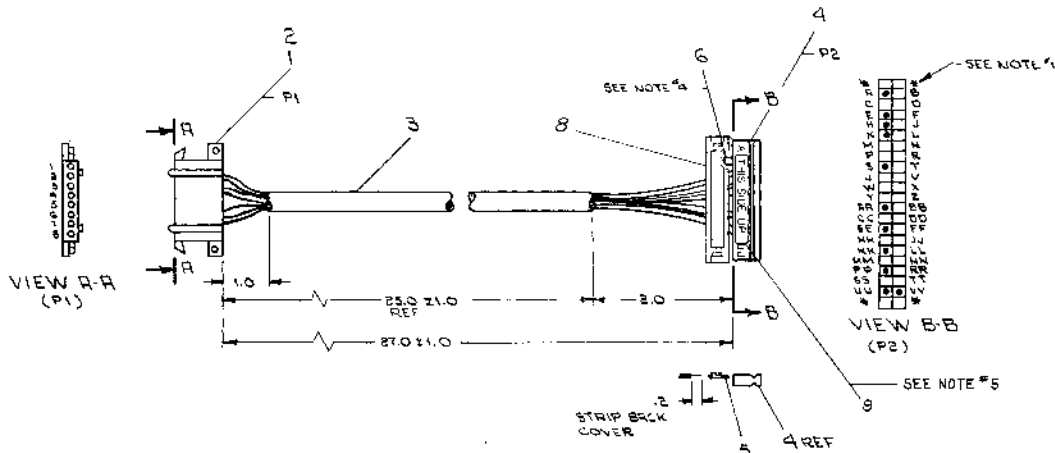
has to be here for this board to work

31-H is started to 31-E for teletype

getting right clock pulses.

M 8650

WIRE TABLE									
ITEM NO.	DESCRIPTION	PAIR NO.	FROM	TO					
NO.	BWG	COLOR	CONNECTION WITH	CONNECTION WITH					
3	22	BLK	P1-2	P2-KK					
3		RED	P1-5	P2-S					
3,7		SHIELD	SEE NOTE #2	P2-R(NOTE#3)					
3		BLK	P1-4	P2-EE					
3		WHT	P1-5	P2-RR					
3,7		SHIELD	SEE NOTE #2	P2-U(NOTE#3)					
3		BLK	P1-6	P2-PP					
3		GRN	P1-7	P2-K					
3,7		SHIELD	SEE NOTE #2	P2-V(NOTE#3)					
6	22	BLK	P2-E	P2-W					

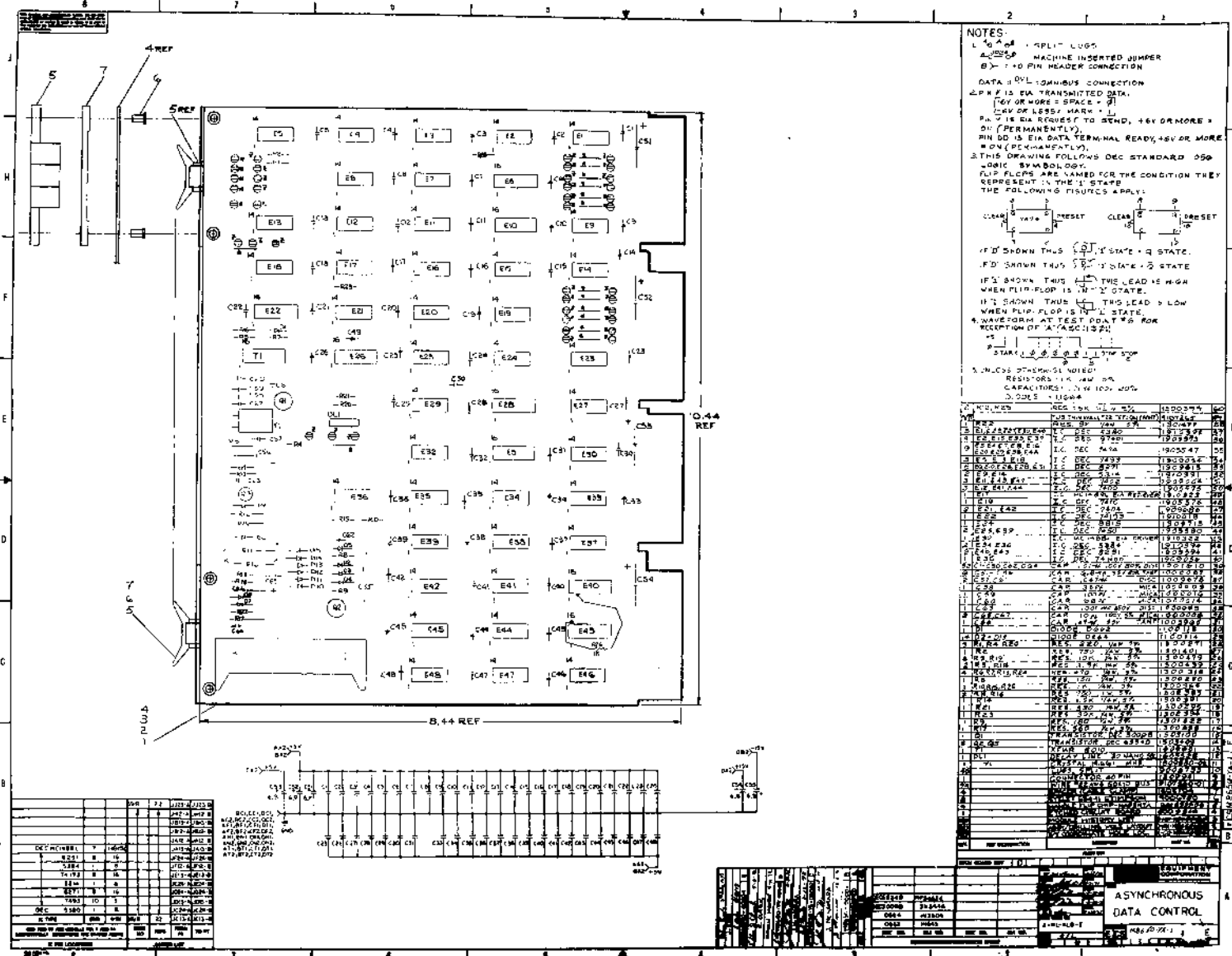


- NOTES:
1. WIRE ENDS INDICATE CAVITIES NOT USED OR DISMOUNTED BY LETTERS.
 2. DRAIN WIRES TO BE CUT BACK TO OUTER INSULATION ON P1 END OF CABLE ONLY. SHIELDS TO BE CUT BACK TO OUTER INSULATION ON BOTH ENDS OF CABLES.
 3. DRAIN WIRES ON P2 END OF CABLE TO BE EACH ENCLOSED WITH ITEM #7 (TUBING) FROM END OF CABLE JACKET TO POINT WHERE THEY ENTER P2 CONNECTOR.
 4. ITEM #6 (WIRE) TO BE APPROXIMATELY ONE(1) INCH LONG.
 5. PLACE ITEM #8 (THIS SIDE UP) STICKER ON LETTERED SIDE OF ITEM #4 (BERG HOUSING) AS SHOWN!

QTY	DESCRIPTION	PART NO	TERM NO
1	LABEL THIS SIDE UP	361567	9
1	STAIN ALZIER	121166	8
1	RTUB #8 TEF THINWALL GRT	910728-11	7
1	WIRE P22 BWG STRD TEF BLK	910730-00	6
11	SOCKET CRIMP #47216	1210009-07	5
1	HOUSING BERG #100000	120000-05	4
1	CABLE BELDEN #111-SPR SHLD	910725-0	3
6	CONTACT MATR NLD K2MRLD	120000-03	2
1	CONN MATR N-LOCK (4MRLB)	120000-00	1

FIRST USED ON OPTION/ MODEL P29-2E	DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES UNLESS OTHERWISE SPECIFIED THIS SURFACE QUALITY FINISH AND BURNISH FINISH	DESIGNED BY: [Signature] CHECKED BY: [Signature] DATE: [Date] DRAWN BY: [Signature] DATE: [Date] TITLE: [Title]	PARTS LIST EQUIPMENT CORPORATION CABLE ASSEMBLY (KLBE)
MATERIAL	NEXT HIGHER ASSEMBLY	SCALE: NONE	SHEET: 1 OF 1

REV	DATE	BY	DESCRIPTION
1	11/17/66	JL	ISSUED FOR PRODUCTION
2	12/22/66	JL	REVISED TO ADD PART 11
3	1/10/67	JL	REVISED TO ADD PART 6
4	1/10/67	JL	REVISED TO ADD PART 9
5	1/10/67	JL	REVISED TO ADD PART 10
6	1/10/67	JL	REVISED TO ADD PART 11
7	1/10/67	JL	REVISED TO ADD PART 12
8	1/10/67	JL	REVISED TO ADD PART 13
9	1/10/67	JL	REVISED TO ADD PART 14
10	1/10/67	JL	REVISED TO ADD PART 15



NOTES

1. 5 REF - SPLIT LOGS
 2. 4 REF - MACHINE INSERTED JUMPER
 3. 7 REF - PIN HEADER CONNECTION
 4. 6 REF - 10 PIN HEADER CONNECTION
 5. 5 REF - 10 PIN HEADER CONNECTION
 6. 4 REF IS EIA TRANSMITTED DATA.
 7. 3 REF OR MORE = SPACE + 2
 8. 2 REF OR LESS = MARK + 1
 9. 1 REF IS EIA REQUEST TO SEND, +6V OR MORE = ON (PERMANENTLY).
 10. 0 REF IS EIA DATA TERMINAL READY, +6V OR MORE = ON (PERMANENTLY).

THIS DRAWING FOLLOWS DEC STANDARD 500 LOGIC SYMBOLS.

FLIP FLOPS ARE LATCHED FOR THE CONDITION THEY REPRESENT IN THE '1' STATE. THE FOLLOWING FIGURES APPLY:

CLEAR: RESET:

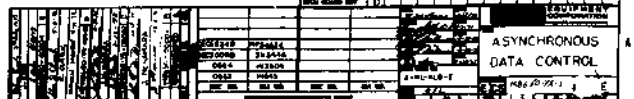
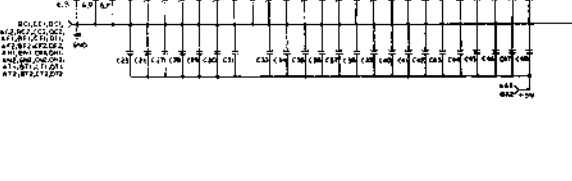
IF 0 SHOWN THIS IS '1' STATE + 0 STATE.
 IF 1 SHOWN THIS IS '1' STATE + 0 STATE.
 IF 2 SHOWN THIS IS '1' STATE + HIGH WHEN FLIP FLOP IS IN '1' STATE.
 IF 3 SHOWN THIS IS '1' STATE + LOW WHEN FLIP FLOP IS IN '1' STATE.
 4. WAVEFORM AT TEST POINT 5 FOR RECESSION OF 'A' (ASCII 24)

START:

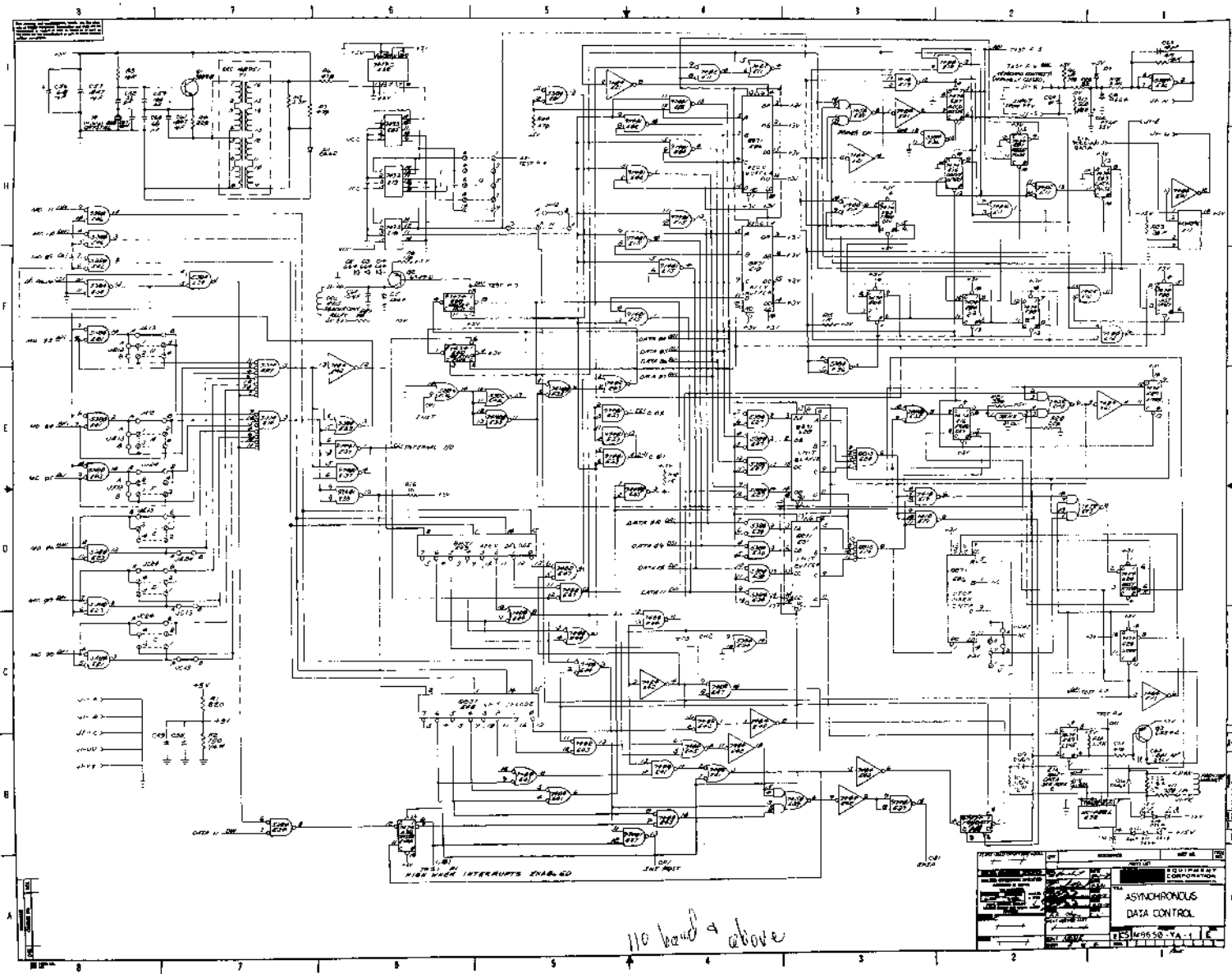
5. UNLESS OTHERWISE NOTED:
 RESISTORS - 1/4 WATT 5%
 CAPACITORS - 10% TOLERANCE

REF	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
1	RES 1/4 WATT 5% 1000000	50			
2	RES 1/4 WATT 5% 1000000	50			
3	RES 1/4 WATT 5% 1000000	50			
4	RES 1/4 WATT 5% 1000000	50			
5	RES 1/4 WATT 5% 1000000	50			
6	RES 1/4 WATT 5% 1000000	50			
7	RES 1/4 WATT 5% 1000000	50			
8	RES 1/4 WATT 5% 1000000	50			
9	RES 1/4 WATT 5% 1000000	50			
10	RES 1/4 WATT 5% 1000000	50			
11	RES 1/4 WATT 5% 1000000	50			
12	RES 1/4 WATT 5% 1000000	50			
13	RES 1/4 WATT 5% 1000000	50			
14	RES 1/4 WATT 5% 1000000	50			
15	RES 1/4 WATT 5% 1000000	50			
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49	RES 1/4 WATT 5% 1000000	50			
50	RES 1/4 WATT 5% 1000000	50			

REF	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
1	RES 1/4 WATT 5% 1000000	50			
2	RES 1/4 WATT 5% 1000000	50			
3	RES 1/4 WATT 5% 1000000	50			
4	RES 1/4 WATT 5% 1000000	50			
5	RES 1/4 WATT 5% 1000000	50			
6	RES 1/4 WATT 5% 1000000	50			
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9	RES 1/4 WATT 5% 1000000	50			
10	RES 1/4 WATT 5% 1000000	50			
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49	RES 1/4 WATT 5% 1000000	50			
50	RES 1/4 WATT 5% 1000000	50			



ASYNCHRONOUS
DATA CONTROL

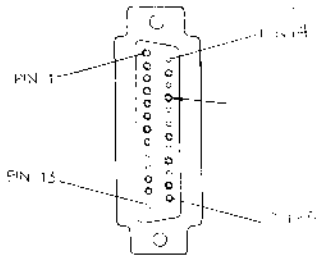


No band above

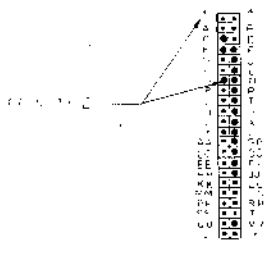
ASYNCRONOUS DATA CONTROL	
1	2
3	4
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97	98
99	100

B 7 6 5 4 3 2 1

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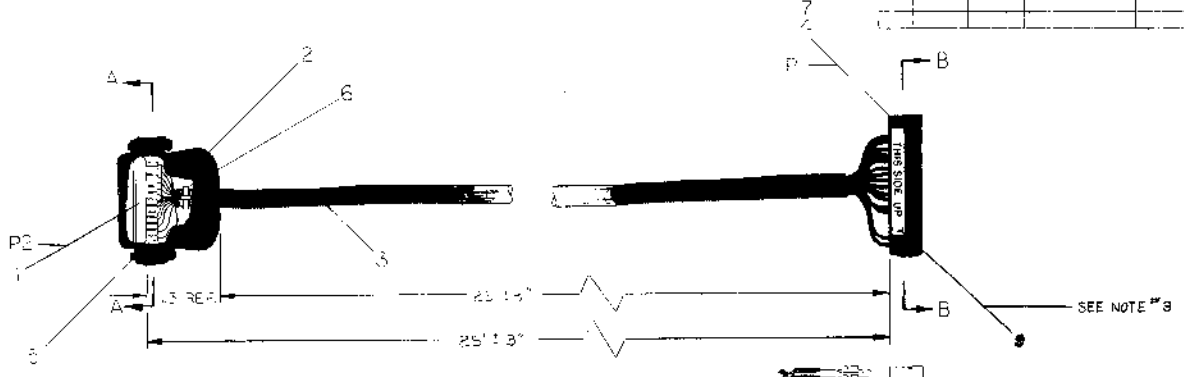
SECTION A-A



SECTION B-B

WIRE TABLE					
ITEM NO.	DESCRIPTION	FROM	TO	CONNECTION	WITH
3	22	BLK	PI-VV	CRIMP	P2-7
		SRN/WHT	PI-C		P2-25
		SRN/BLK	PI-JJ		P2-12
		DK/BLK	PI-FF		P2-11
		RED	PI-DD		P2-20
		GRN	PI-BB		P2-8
		BLU/WHT	PI-Z		P2-6
		DKN	PI-X		P2-22
		BLU	PI-V		P2-4
		WHT	PI-T		P2-5
		BLU/BLK	PI-R		P2-17
		BLK/WHT	PI-N		P2-15
		RED/WHT	PI-L		P2-24
		WHT/BLK	PI-J		P2-3
		RED/BLK	PI-F		P2-2
5		BLK	PI-E	CRIMP	PI-M
5	22	BLK	P2-1	SOLD	P2-7

- NOTES:
1. EACH SOLDERED CONN. ON P2 SHALL BE INSULATED WITH A 1/4" PIECE OF HY-SHRINK TUBING (ITEM #5).
 2. * INDICATES PINS USED ON P1 (BERG CONN) * INDICATES PINS USED ON P2 (CINCH PLUG) * REMOTE CAVITIES NOT USED OR DESIGNATED BY LETTER ON P1 (BERG CONN)
 3. PLACE ITEM #9 ("THIS SIDE UP" STICKER) ON LETTERED SIDE OF ITEM #4 (BERG HOUSING) AS SHOWN.



STAMP BACK COVER

SEE NOTE #3

QTY	DESCRIPTION	PART NO.	REV
1	LABEL THIS SIDE UP	3611567	B
A/R	WIRE #22 AWG STRD TU BLK	9107350-0	8
17	SOCKET CRAMP #9216	1210089-07	7
1	TIF WRAP, PANDUIT #557-18	9007031	6
16	TUBING, HEAT SHRINK 1/8"	9107255	5
1	HOUSING #29383 BERG	1210090-0	4
A/R	CABLE, BELDON 15 CONN.	3107672	3
1	HOOD, 1/2" INCH #351226-1	1205885	2
1	PLUG C VTR #DB-25*	1205886	1

REV	DATE	BY	CHKD	DESCRIPTION
1	10/15/74	W. J. GARDNER		INITIALS
2	11/15/74	W. J. GARDNER		REVISION
3	12/15/74	W. J. GARDNER		REVISION
4	1/15/75	W. J. GARDNER		REVISION
5	2/15/75	W. J. GARDNER		REVISION
6	3/15/75	W. J. GARDNER		REVISION
7	4/15/75	W. J. GARDNER		REVISION
8	5/15/75	W. J. GARDNER		REVISION

FIRST USED ON OPTION/MODEL: PDP-8/E

DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED

DATE: 10/15/74

BY: W. J. GARDNER

CHKD: [Signature]

SCALE: NONE

SHEET: 1 OF 1

PARTS LIST

digital EQUIPMENT CORPORATION

CABLE ASSY (CQIV)

REV: C