

SHEET 1.0
 DWG NO. 140S2774X

XEROX

THE DATA CONTAINED WITHIN THESE SPECIFICATIONS IS THE EXCLUSIVE PROPERTY OF XEROX CORPORATION AND/OR RANK XEROX LTD./FUJI XEROX CO LTD., ISSUED IN STRICT CONFIDENCE AND SHALL NOT, WITHOUT THE PRIOR WRITTEN PERMISSION OF XEROX CORPORATION AND/OR RANK XEROX LTD./FUJI XEROX CO LTD., BE REPRODUCED, COPIED OR USED FOR ANY PURPOSE WHATSOEVER, EXCEPT THE MANUFACTURE OF ARTICLES FOR XEROX CORPORATION AND/OR RANK XEROX LTD./FUJI XEROX CO LTD.

ASSEMBLY REVISION RECORD										REVISION RECORD								
REV FOR 140S2774 (SEE BELOW)										DWG STATUS		CHG NO.		REV				
9	8	7	6	5	4	3	2	1	0	TYPE	REV	TYPE	CHG BY/DATE	CHK BY/DATE	CHK CODE	CHG NO.	MF CHK	
										A	ISS	A	ISS	<i>[Signature]</i>			559791	MF
										B	D/C	B	D/C	<i>[Signature]</i> 29 MAR 84	<i>[Signature]</i> 30 MAR 84	3	559817	MF
											C	D/C	<i>[Signature]</i> 04 JAN 85	<i>[Signature]</i> 04 JAN 85	3	559877	MF	

SHEET NO.	SIZE	SHEET REVISION				SHEET NO.	SIZE	SHEET REVISION			
2.0	A4	A		C							
2.1	A4	A									
3.0	A4	A	B								
3.1	A4	A									
3.2	A4	A									
3.3	A4	A									
4.0	A0	A	B								
4.1	A1	A									

XEROX MATERIAL SPEC		XEROX FINISH SPEC		RELATED SPECS 88P200, 88P215, 88P220, 082P80232, 156P11828			
PREPARED BY/DATE C. COOLEY 06 APR 83		CHECKED BY/DATE <i>[Signature]</i> 15 APR 83		APPROVED BY/DATE <i>[Signature]</i> 02 JUN 83		REFERENCE CODES	
TITLE PWB ASSEMBLY, OPT				DWG SIZE A4	DWG NO. 140S2774X	SEE REV RECORD ABOVE	
				SHEET 1.0 OF 9			

- 1.0 ASSEMBLY SHALL MEET ALL THE REQUIREMENTS OF 88P220.
- 2.0 COMPONENT HEIGHT SHALL NOT EXCEED .50 INCH.
- 3.0 UNLESS OTHERWISE SPECIFIED:
CAPACITANCE VALUES ARE IN MICROFARADS.
RESISTANCE VALUES ARE IN OHMS.
RESISTORS ARE 0.25 W.
RESISTANCE TOLERANCES ARE \pm 5 PERCENT.
- 4.0 TESTING TO BE PERFORMED PER THE APPROPRIATE TEST SPECIFICATION.
- 5.0 THE PADS FOR THE POSITIVE TERMINALS OF CAPACITORS AND THE CATHODES OF DIODES ARE CIRCLED.
- 6.0 SEMICONDUCTORS ARE TO BE SCREENED ACCORDING TO THE REQUIREMENTS OF 156P11828. IN THE EVENT OF CONFLICT, THE COMPONENT SPECIFICATION TAKES PRECEDENCE.
- 7.0 THE GENERIC PART NAMES LISTED IN THE DESCRIPTION FIELD ARE FOR REFERENCE ONLY. ALL ITEMS MUST BE PURCHASED TO THE REQUIREMENTS OF THE XEROX COMPONENT SPECIFICATION.
- 8.0 HAYWIRES ARE ACCEPTABLE WITHIN THE LIMITS AND REQUIREMENTS OF 082P80232.
- 9.0 MAXIMUM PROTRUSION SOLDER SIDE IS .10 INCH.
- 10.0 ELECTROSTATIC SENSITIVE DEVICE, PROVIDE ADEQUATE PROTECTION FROM ELECTROSTATIC DISCHARGE PER 88P220, SECTION 17.0.
- 11.0 MARK PER 88P215, CLASS 6. LOCATE APPROXIMATELY WHERE SHOWN. (SEE SHEET 4.0).
- 12.0 CONTACT FINGERS SHALL BE KEPT FREE OF SOLDER ON BOTH SIDES BETWEEN THE LINE OF DEMARCATION AND THE BOARD EDGE (SEE SHEET 4.0).

PROPRIETARY NOTE ON SHEET 1 APPLIES TO ALL SHEETS

TITLE PWB ASSEMBLY, OPT	DWG. SIZE A4	DWG. NO. 140S2774X	SHEET REV C
	SHEET 2.0 OF		

13.0 ON THE PWB, A "+" SYMBOL IS MARKED ADJACENT TO THE POSITIVE TERMINAL OF POLARIZED CAPACITORS. THE ARROWHEAD OF THE SYMBOL "→" BETWEEN PADS, POINTS TO THE CATHODE TERMINAL PAD FOR DIODES.

14.0 MARKING SPECIFICATION:

14.1 FIVE DIGIT ASSEMBLY NUMBER TO BE MARKED IN AREA SHOWN. CHARACTERS TO BE 12 PT TYPE (SEE SHEET 4.1).

14.2 DATE OF MANUFACTURE, FOUR DIGIT (YEAR-DAY) JULIAN DATE CODE TO BE MARKED IN AREA SHOWN. CHARACTERS TO BE 12 PT TYPE (SEE SHEET 4.1).

14.3 VENDOR LOGO/IDENTIFICATION TO BE MARKED IN AREA SHOWN.. CHARACTERS TO BE 12 PT TYPE (SEE SHEET 4.1).

14.4 CHARACTERS TO BE PERMANENTLY AND LEGIBLY MARKED USING BLACK NON-CONDUCTIVE INK OR PAINT.

PROPRIETARY NOTE ON SHEET 1 APPLIES TO ALL SHEETS

TITLE PWB ASSEMBLY, OPT	DWG SIZE	DWG NO.	SHEET REV A
	A4	140S2774X SHEET 2.1 OF	

REFERENCE DESIGNATION	ITEM	PART NUMBER	DESCRIPTION	QUANTITY REQUIRED PER ASSEMBLY																
				0	1	2	3	4	5	6	7	8	9							
				REV	REV	REV	REV	REV	REV	REV	REV	REV	REV							
				B																
	1	140P12301	PWB DETAIL, OPT	1																
	2	156P12301	SCHEMATIC, OPT	REF																
	3	156P11444	TEST SPEC, OPT	REF																
	4	030P83244	STIFFENER	1																
	5	030P87014	STIFFENER	1																
	6	003P87082	EXTRACTOR	2																
	7	091P87224	LABEL, OPT	1																
	8	091P87219	LABEL, PWB ASSY	1																
	9	320W13201	RIVET	7																
C1,82	10	702W15201	CAP., 250	2																
C2	11	702W01218	CAP., 100 pF, 100 V	1																
C3 THRU 5,11, 12,17 THRU 22, 24,27,31,33 THRU 36,39 THRU 43,45 THRU 50,52 THRU 79	12	702W05218	CAP., 0.1, 50 V	57																
C6,7,10,13,14	13	702W01018	CAP., 68 pF, 100 V	5																
C8	14	702W00718	CAP., 39 pF, 100 V	1																
C9	15	702W01418	CAP., 150 pF, 100 V	1																
C15	16	702W07318	CAP., 0.0022, 100 V	1																
C16	17	102P10260	CAP., ADJ, 1.0 - 60 pF	1																
C23,25	18	702W01718	CAP., 270 pF, 100 V	2																
C28	19	702W02618	CAP., 0.0015, 100 V	1																
C32	20	702W07118	CAP., 0.01, 50 V	1																
C38	21	702W28005	CAP., 22, 35 V	1																
C44,51	22	702W10705	CAP., 33, 10 V	2																
C80,81	23	702W17105	CAP., 68, 15 V	2																
CR1	24	707W00273	DIODE, 1N4148	1																
F1,3	25	708W10802	FUSE, 1.5 A	2																
F2,5	26	708W10902	FUSE, 2 A	2																
F4	27	708W11402	FUSE, 10 A	1																
P21	28	713W12720	HEADER, 40 PIN	1																
P22	29	713W12820	HEADER, 50 PIN	1																
R1,2,3,4,9,10	30	703W28788	RES, 36	6																
R5,6,7,8,37	31	703W30688	RES, 220	5																



PROPRIETARY NOTE ON SHEET 1 APPLIES TO ALL SHEETS

TITLE PWB ASSEMBLY, OPT	DWG. SIZE A4	DWG. NO. 140S2774X	SHEET REV B
	SHEET 3.0 OF		

XEROX

REFERENCE DESIGNATION	ITEM	PART NUMBER	DESCRIPTION	QUANTITY REQUIRED PER ASSEMBLY																
				0	1	2	3	4	5	6	7	8	9							
				REV	REV	REV	REV	REV	REV	REV	REV	REV	REV							
R11,41,42,44,45,52,53,59,60,61.63	32	703W32288	RES, 1k	11																
R12,13,14,18,55	33	703W30788	RES, 240	5																
R15	34	703W33688	RES, 3.9 k	1																
R16,20,21,22	35	703W29488	RES, 68	4																
R17,19,26,28	36	703W17106	RES, 475, ± 1 PCT	4																
R23,24,33,35,48	37	703W15206	RES, 301, ± 1 PCT	5																
R25,32	38	703W31588	RES, 510	2																
R27,29,31,34	39	703W21306	RES, 1 300, ± 1 PCT	4																
R36,40,46,51	40	703W32588	RES, 1.3 k	4																
R38,39	41	703W35088	RES, 15 k	2																
R47,50	42	703W31888	RES, 680	2																
R54,56,57,58	43	703W34688	RES, 10 k	4																
R62	44	703W29888	RES, 100	1																
U1,2,3,4	45	733W00098	IC, RCVR 75189	4																
U5	46	733W01685	IC, XLTR MC10125	1																
U6	47	733W01682	IC, XLTR MC10124	1																
U7	48	733W01912	IC, MV MC1658	1																
U8,28	49	733W01734	IC, FF MC10231	2																
U9	50	733W01782	IC, OR MC10103	1																
U11,12,13	51	733W01911	IC, DRVR 75188	3																
U14,15,36,39	52	733W01648	IC, EX-OR 74S86	4																
U16,66,74,128	53	733W00318	IC, NAND 74S00	4																
U17,18,25	54	733W01920	IC, RCVR MC10116	3																
U19,29	55	733W01680	IC, NOR MC10102	2																
U20	56	733W00341	IC, LATCH 74279	1																
U21,22,34,35,51,114	57	733W01624	IC, FF 74LS273	6																
U23,32	58	733W01645	IC, NAND 74S30	2																
U24,27	59	733W01921	IC, RCVR 26LS32	2																
U26,30	60	703W12591	RES, NET., 510	2																
U31,43	61	733W00321	IC, NOR 74S260	2																
PROPRIETARY NOTE ON SHEET 1 APPLIES TO ALL SHEETS																				
TITLE PWB ASSEMBLY, OPT				DWG SIZE A4	DWG. NO. 140S2774X SHEET 3.1 OF										SHEET REV A					

XEROX

REFERENCE DESIGNATION	ITEM	PART NUMBER	DESCRIPTION	QUANTITY REQUIRED PER ASSEMBLY																
				0	1	2	3	4	5	6	7	8	9							
				INV	INV	INV	INV	INV	INV	INV	INV	INV	INV							
U33,73,81,127	62	733W01643	IC, NOR 74S02	4																
U37	63	733W01636	IC, MUX 74S253	1																
U38,75	64	733W00319	IC, INV 74S04	2																
U40	65	733W01771	IC, FF 74S74	1																
U41,47,54,59,78	66	733W01770	IC, CNTR 74LS163	5																
U42	67	733W01610	IC, NAND 74S20	1																
U44,45	68	733W01603	IC, CNTR 74LS393	2																
U40,117,119	69	733W01672	IC, INV 74LS04	3																
U48,52,107,118,124	70	733W01640	IC, FF 74S374	5																
U49	71	537P03952	IC, PROM F93427	1																
U50	72	537P02272	IC, PROM F93427	1																
U53,95	73	733W01626	IC, DRVR 74LS244	2																
U55,56,69,83,130	74	733W01745	IC, MUX 74LS157	5																
U57,58,72,101	75	733W01675	IC, FF 74LS74	4																
U60,61,80	76	733W01606	IC, NAND 74S10	3																
U62,110	77	733W01620	IC, AND-OR-NOR 74S64	2																
U63,77,78,120,125,126	78	733W01642	IC, FF 74LS175	6																
U64	79	537P02334	IC, PROM F93453	1																
U65,69,80,90,105,106	80	733W01698	IC, FF 74LS374	6																
U67	81	537P02274	IC, PROM F93427	1																
U70	82	733W01647	IC, NAND 74S38	1																
U71 	83	733W02235	IC, COMM Z80-SI0/2	1																
U79,91 THRU 94 	84	733W01533	IC, MEM 74S225	5																
U82,85,111	85	733W01621	IC, AND-NOR 74S51	3																
U84,98	86	733W01705	IC, OR 74LS32	2																
U86,87,102,103	87	733W01674	IC, SR 74LS165	4																
U88,108,109	88	733W01668	IC, SR 74S299	3																

PROPRIETARY NOTE ON SHEET 1 APPLIES TO ALL SHEETS

TITLE PWB ASSEMBLY, OPT	DWG. SIZE A4	DWG. NO. 140S2774X	SHEET REV A
	SHEET 3.2 OF		

XEROX

THESE DRAWINGS AND SPECIFICATIONS, AND THE DATA CONTAINED THEREIN, ARE THE EXCLUSIVE PROPERTY OF XEROX CORPORATION AND/OR RANK XEROX LTD./FUJI XEROX CO. LTD. ISSUED IN STRICT CONFIDENCE AND SHALL NOT, WITHOUT THE PRIOR WRITTEN PERMISSION OF XEROX CORPORATION AND/OR RANK XEROX LTD./FUJI XEROX CO. LTD. BE REPRODUCED, COPIED OR USED FOR ANY PURPOSE WHATSOEVER, EXCEPT THE MANUFACTURE OF ARTICLES FOR XEROX CORPORATION AND/OR RANK XEROX LTD./FUJI XEROX CO. LTD.

REVISION RECORD

DWG STATUS		CHG. NO.		REV		
REV	TYPE	CHG BY/DATE	CHK BY/DATE	CHK CODE	CHG NO.	MF CHK
A	ISS	J. Adams 05/11/83			559791	MF

SHEET NO.	SIZE	SHEET REVISION					SHEET NO.	SIZE	SHEET REVISION					
0.2	A4						11	A4	A					
0.3	A4	A					12	A4	A					
0.4	A4	A					13	A4	A					
0.5	A4	A					14	A4	A					
0.6	A4	A					15	A4	A					
01	A4	A					16	A4	A					
02	A4	A					17	A4	A					
03	A4	A					18	A4	A					
04	A4	A					19	A4	A					
05	A4	A					20	A4	A					
06	A4	A					21	A4	A					
07	A4	A					22	A4	A					
08	A4	A					23	A4	A					
09	A4	A					24	A4	A					
10	A4	A					25	A4	A					

XEROX MATERIAL SPEC		XEROX FINISH SPEC		RELATED SPECS 88P201		
PREPARED BY/DATE M. Anderson 29 MAR 83	CHECKED BY/DATE J. Sandberg 20 APR 83	APPROVED BY/DATE D. Ruse 03 JUN 83	REFERENCE CODES			
TITLE SCHEMATIC, OPT			DWG SIZE A4	DWG NO. 156P12301	SEE REV RECORD ABOVE	
			SHEET 0.1 OF 48			

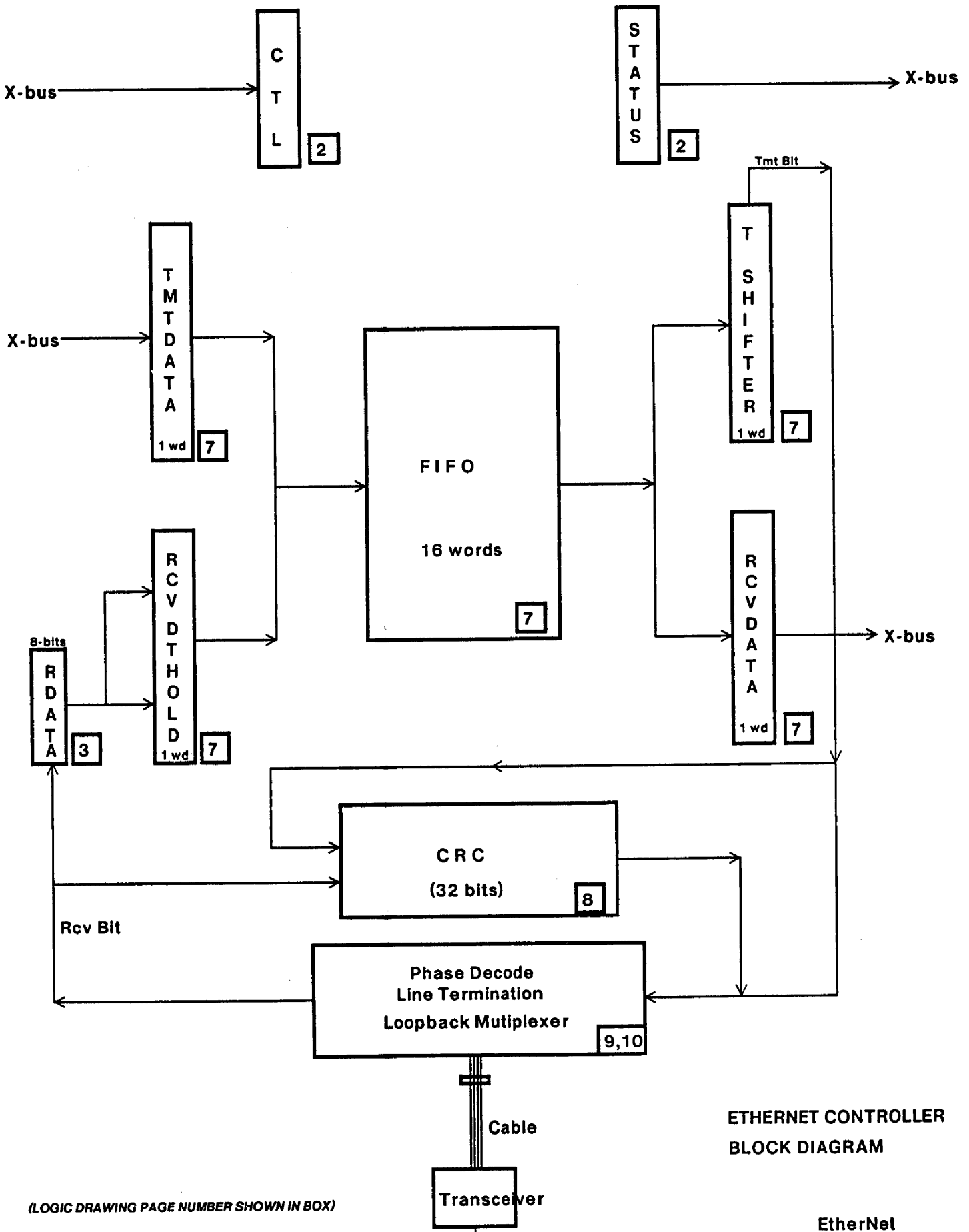
TABLE OF CONTENTS

SHEET

0.4	BLOCK DIAGRAM: ETHERNET CONTROLLER
0.5	BLOCK DIAGRAM: LSEP
0.6	BLOCK DIAGRAM: RS-232-C INTERFACE
1	ETHER CP CLOCKS, BUFFERED X-BUS, TESTABILITY, PULLUPS
2	ETHER CP INTERFACE
3	ETHER RECEIVE DATA / STATES
4	ETHER TRANSMIT DATA / STATES
5	ETHER TRANSMIT COUNTERS
6	ETHER BUFFER CONTROL AND STATUS
7	ETHER HALF DUPLEX BUFFER
8	ETHER CRC
9	ETHER PHASE ENCODER & CABLE INTERFACE
10	ETHER PHASE LOCK LOOP RECEIVER
11	LSEP CP INTERFACE
12	LSEP SHIFTERS
13	LSEP PRINTER CONNECTOR
14	LSEP CONTROL AND STATUS
15	RS232C INTERFACE, Z80A-SIO/2, 8085 CONVERTER
16	RS366 CONTROL & STATUS
17	RS232C/RS366 DRIVERS/RECEIVERS
18	SPARES, REGISTER CLOCKS
19	FUSES & FILTER CAPS
20	FILTER CAPS
21	TEST POINT LISTING, EDGE CONNECTOR LISTING, & SIGNAL LISTING

Note: The issued schematic drawing 156P12301 is made from [Rain]<SMod>OPT3.dmASIL-A

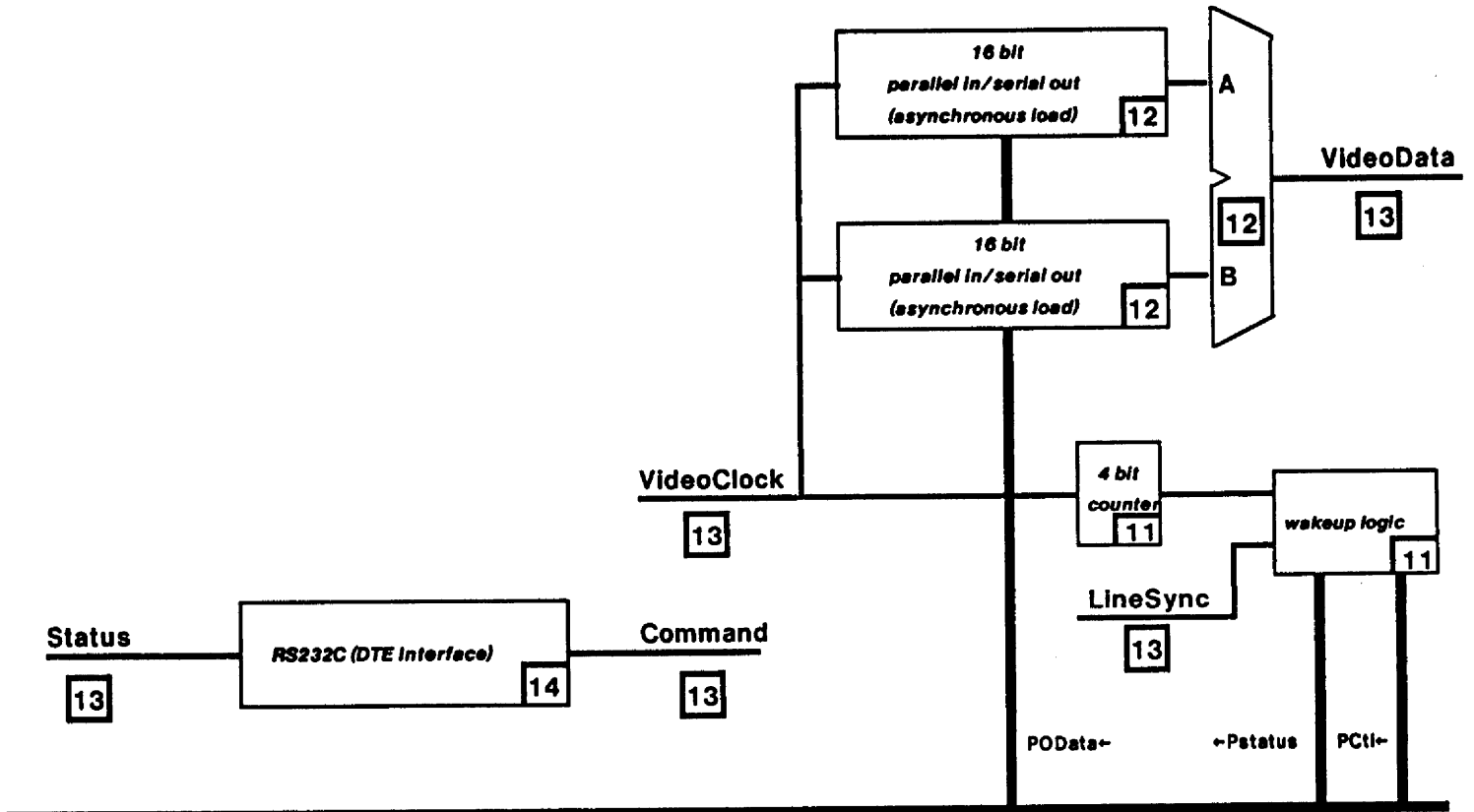
XEROX	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS		DWG NO. 156P12301	SHEET REV. A
	TITLE	SCHEMATIC, OPT	SHEET 0.3 OF	A



ETHERNET CONTROLLER
BLOCK DIAGRAM

(LOGIC DRAWING PAGE NUMBER SHOWN IN BOX)

XEROX	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS		DWG SIZE A4	DWG NO. 156P12301		SHEET REV. A
	TITLE SCHEMATIC, OPT			SHEET 0.4 OF		



X Bus

Signals from LSEP connector are in the large font.

Control Register Functions:

1. disable wakeup (level)
2. clear buffer (level)
3. test mode (level)
4. end of line (pulse)
5. clear errors (pulse)
6. step (test mode clock)

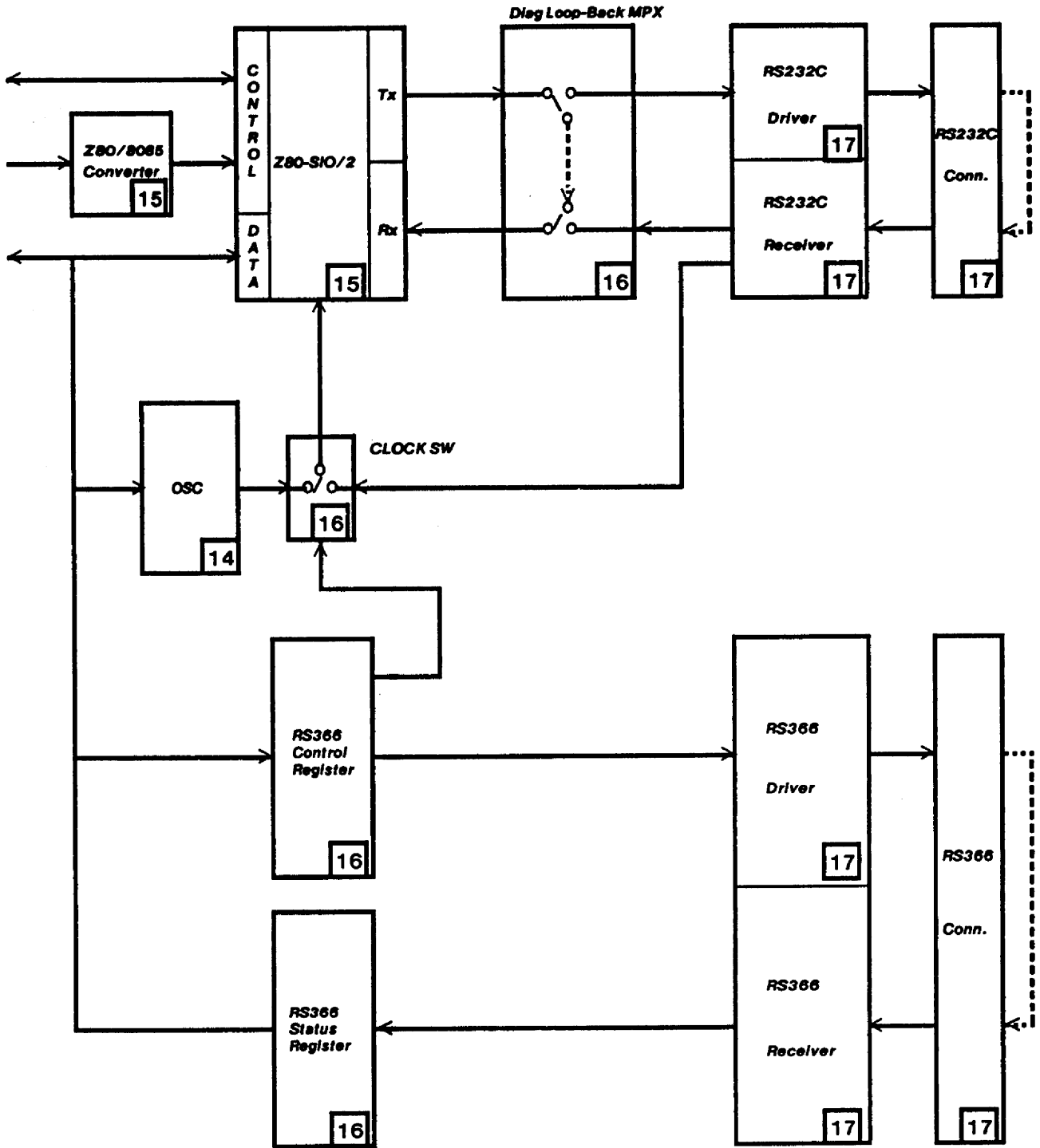
Status Register:

1. data overrun
2. buffer loadable (0 =>A, 1 =>B)
3. VideoData

LSEP BLOCK DIAGRAM

(LOGIC DRAWING PAGE NUMBER SHOWN IN BOX)

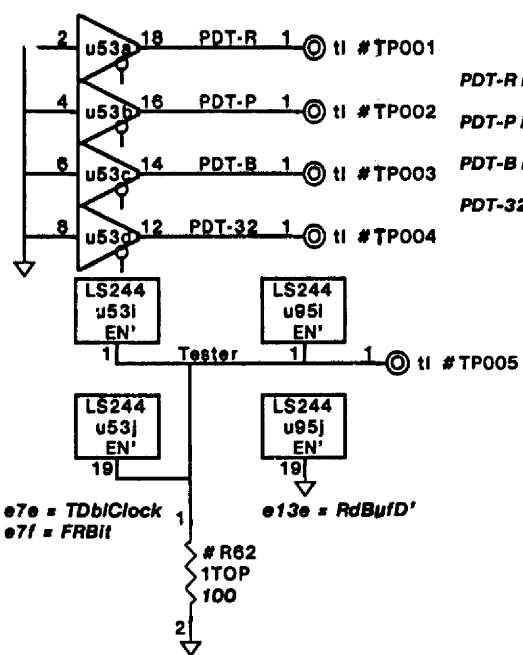
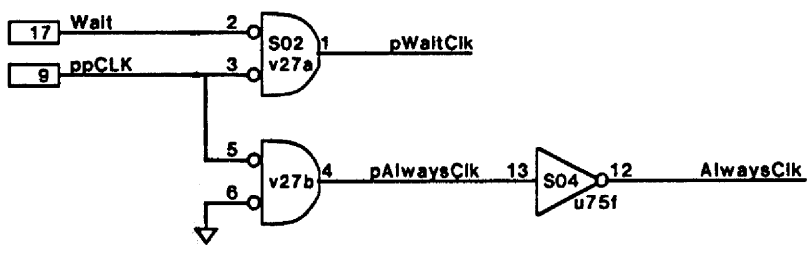
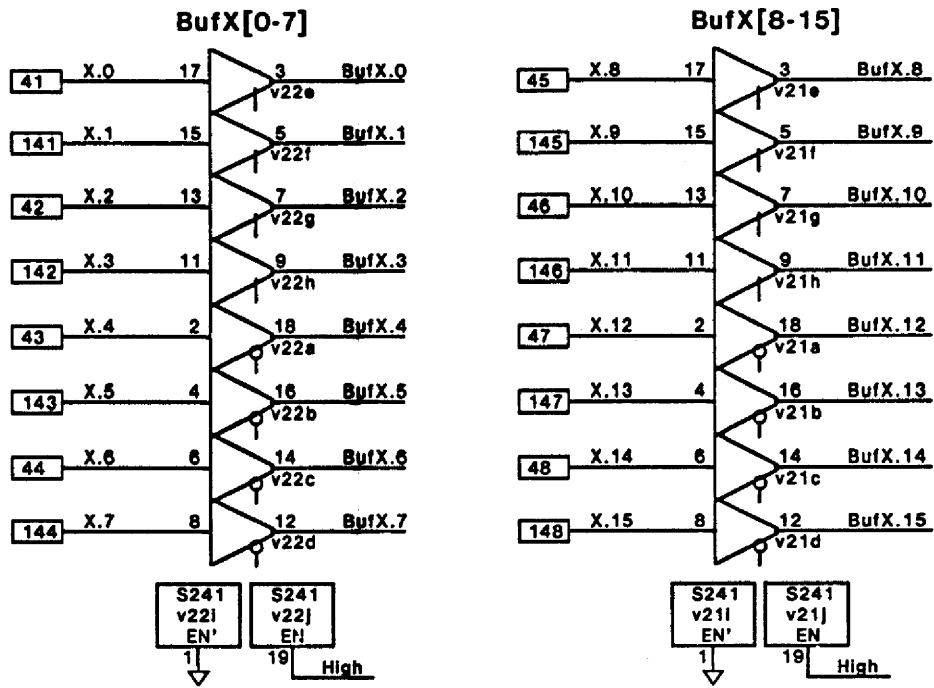
XEROX	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS		DWG SIZE A4	DWG NO. 156P12301		SHEET REV. A
	TITLE	SCHEMATIC, OPT		SHEET	0.5 OF	



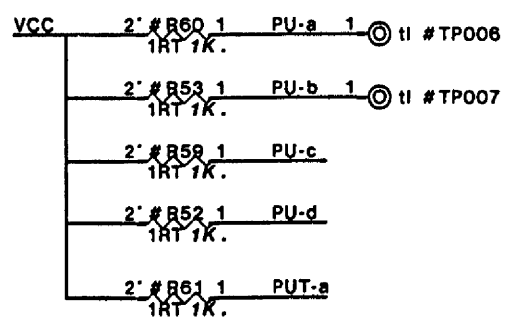
(LOGIC DRAWING PAGE NUMBER SHOWN IN BOX)

RS-232-C INTERFACE BLOCK DIAGRAM

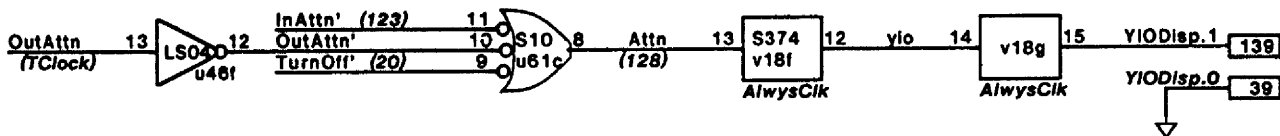
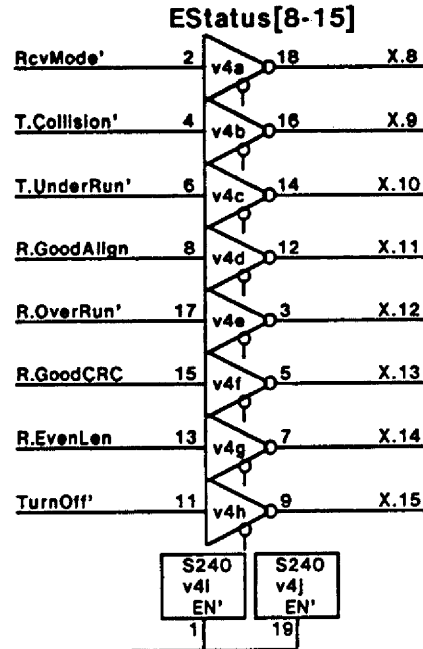
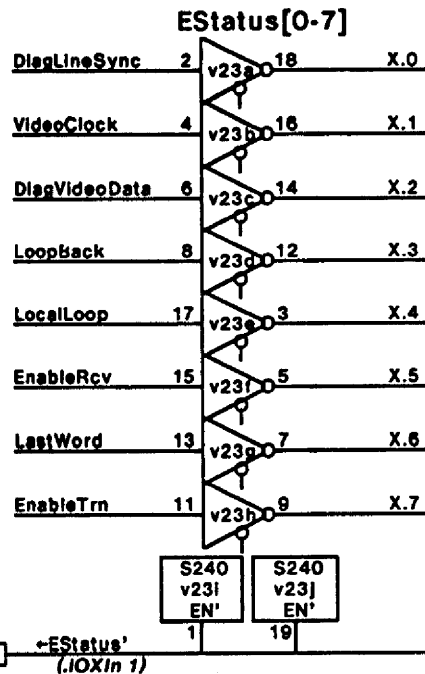
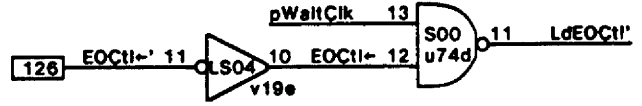
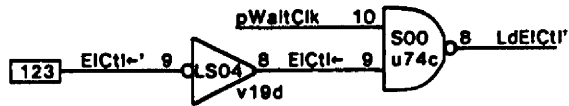
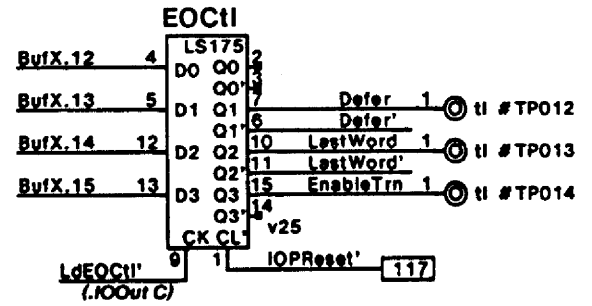
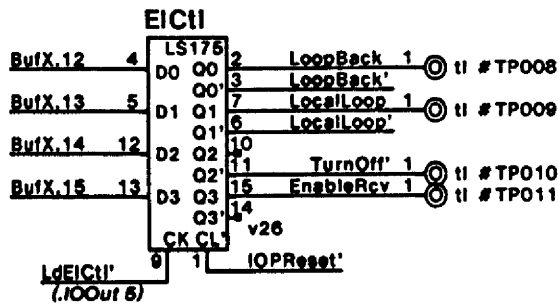
XEROX	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS		DWG SIZE A4	DWG NO. 156P12301		SHEET REV. A
	TITLE SCHEMATIC, OPT			SHEET 0.6 OF		



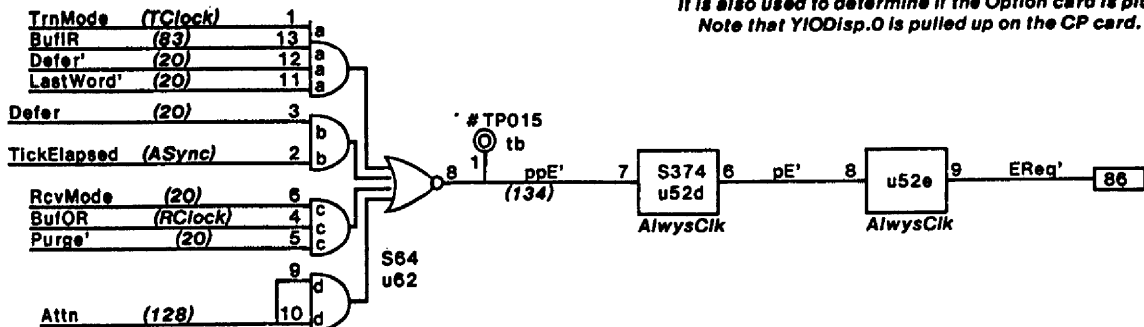
PDT-R is used to disable Register outputs
 PDT-P is used to disable PROM outputs
 PDT-B is used to disable outputs of FIFO
 PDT-32 is used to disable the outputs of the Am26LS32



CP Clocks & Buffered X-bus
 Testability, Pullups

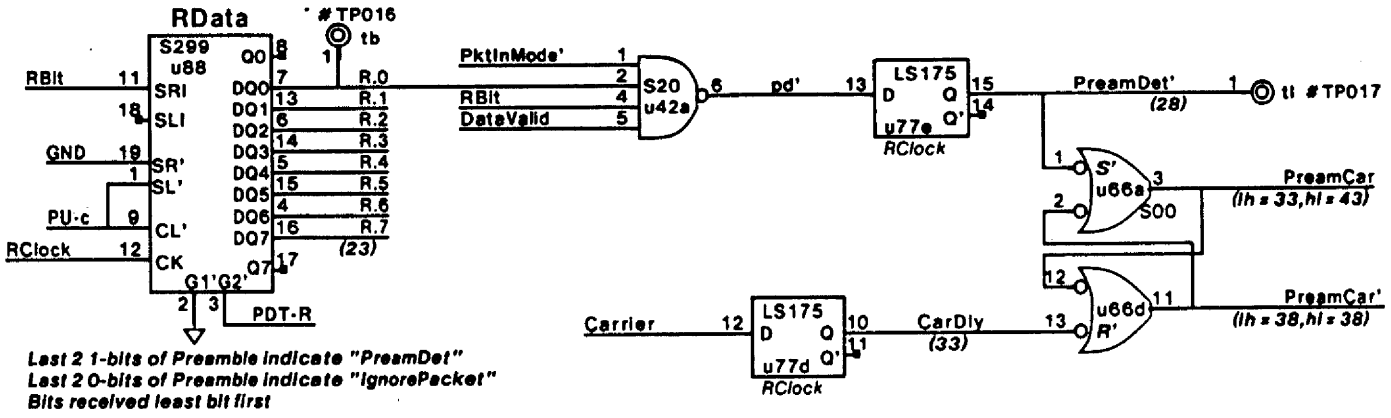


YIODisp.0 must be zero for the Transmitting Inner loop uCode. It is also used to determine if the Option card is plugged in. Note that YIODisp.0 is pulled up on the CP card.

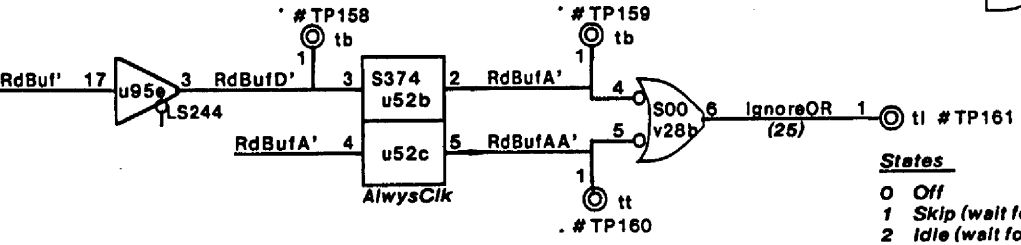
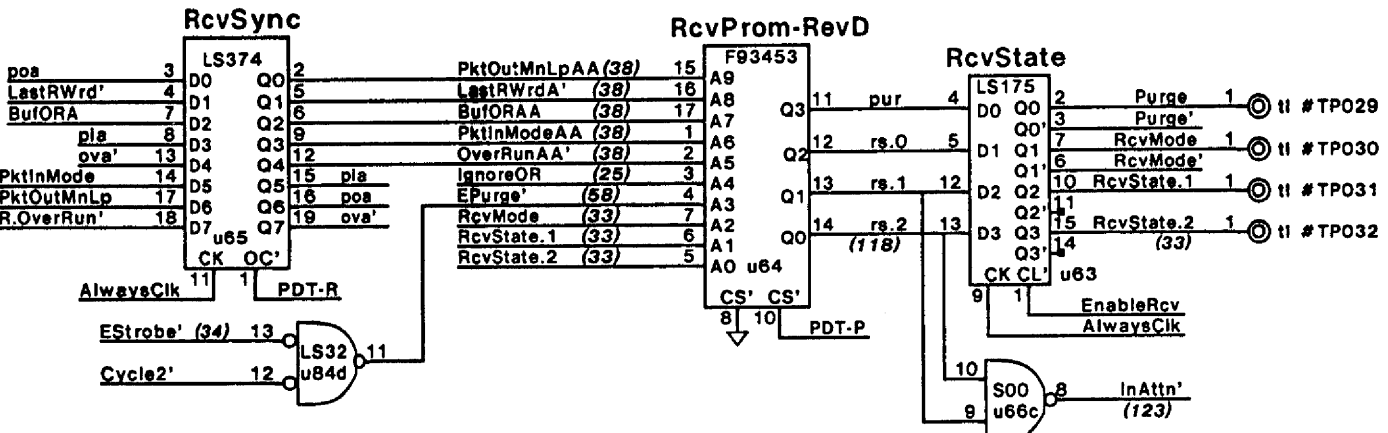
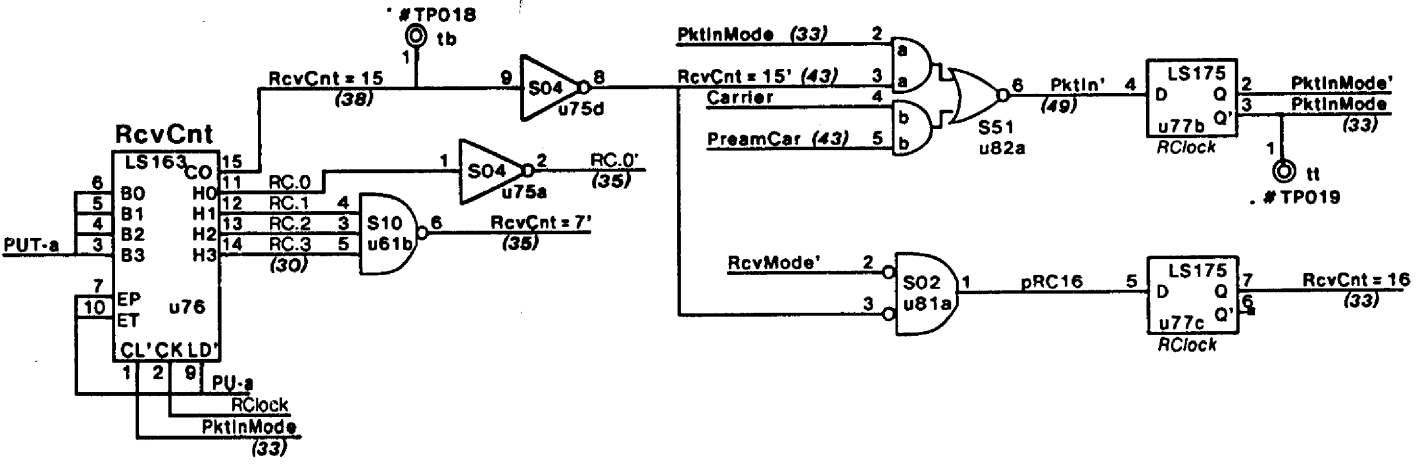


CP Interface

XEROX	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS		DWG NO. 156P12301	SHEET REV. A
	TITLE	SCHEMATIC, OPT		

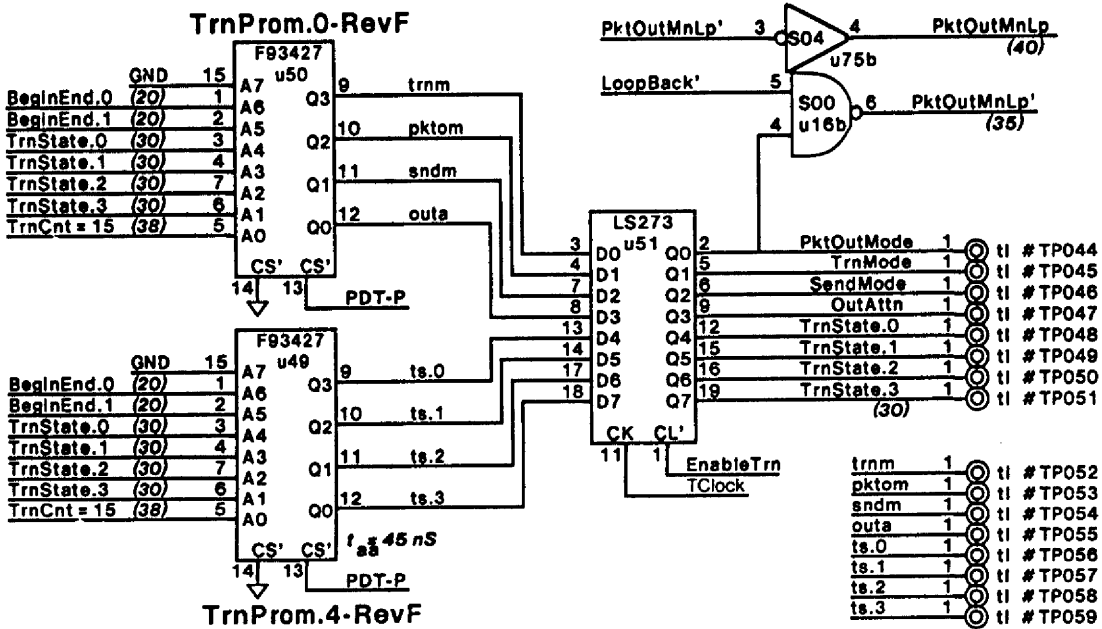
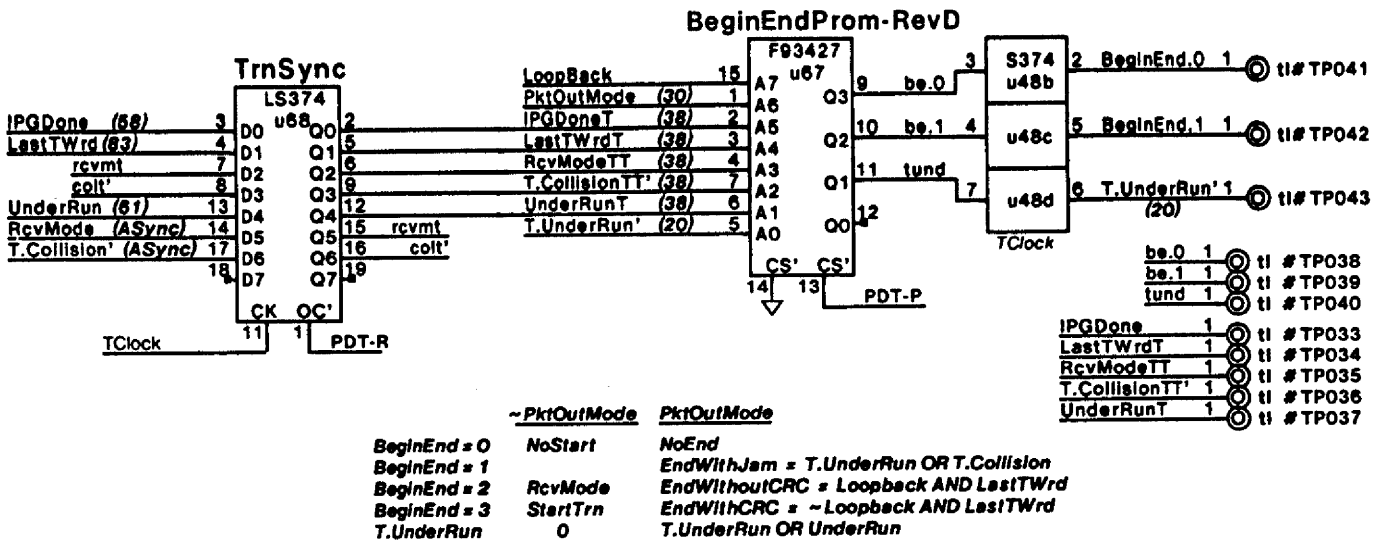


Last 2 1-bits of Preamble Indicate "PreamDet"
 Last 2 0-bits of Preamble Indicate "IgnorePacket"
 Bits received least bit first



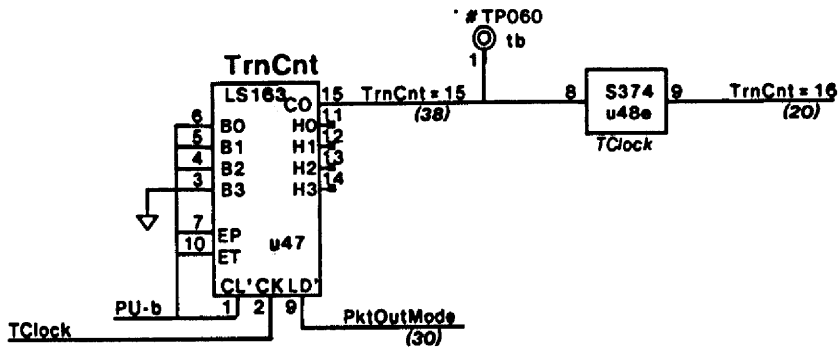
- | | | | |
|----------------|------------|--------|------------|
| PktOutMnLpAA 1 | ti # TPO20 | pur 1 | ti # TPO25 |
| LastRWrDA' 1 | ti # TPO21 | rs.0 1 | ti # TPO26 |
| BufORAA 1 | ti # TPO22 | rs.1 1 | ti # TPO27 |
| PktInModeAA 1 | ti # TPO23 | rs.2 1 | ti # TPO28 |
| OverRunAA' 1 | ti # TPO24 | | |
- | | | | |
|---|------------------------------|--|----------------|
| 0 | Off | | |
| 1 | Skip (wait for no PktInMode) | | |
| 2 | Idle (wait for PktInMode) | | |
| 3 | unused | | InAttn |
| 4 | BufferEmpty? | | RcvMode |
| 5 | ReceiveData | | RcvMode |
| 6 | Purge | | RcvMode Purge |
| 7 | Post Status | | RcvMode InAttn |

Receive Data/States



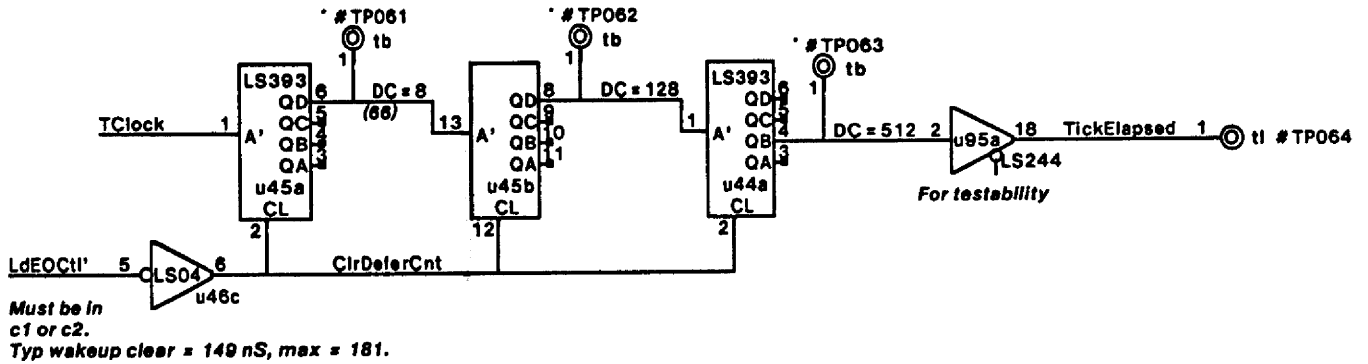
States	Outputs
0 Off	
1 WaitForBuffer	
2 WaitToTran TrnMode	SeICRC
3 PostOutStatus TrnMode	SeICRC OutAttn
4 TrnInitialize TrnMode PktOutMode	
5 Send TrnMode PktOutMode Send	
6 CRC0 TrnMode PktOutMode Send	SeICRC
7 CRC1 TrnMode PktOutMode Send	SeICRC
8 Pream0 TrnMode PktOutMode Send SetCRC	
9 Pream1 TrnMode PktOutMode Send SetCRC	
10 Jam0 (Kword) TrnMode PktOutMode Send SetCRC SeICRC	
11 Jam1 TrnMode PktOutMode Send SetCRC SeICRC	
12 Pream2 TrnMode PktOutMode Send SetCRC	
13 Pream3 TrnMode PktOutMode Send SetCRC	
14 Jam2 TrnMode PktOutMode Send SetCRC SeICRC	
15 unused TrnMode PktOutMode Send SetCRC SeICRC	

Transmit Data/States



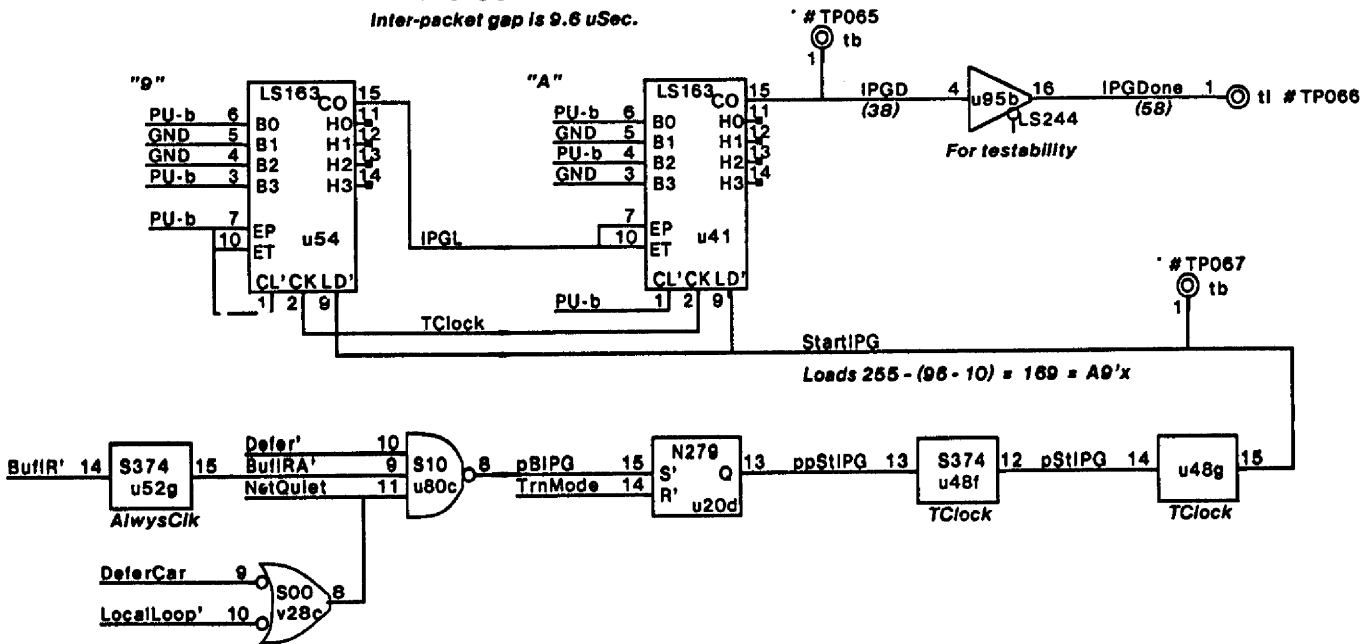
DeferCount

Tick size is 51.2 uSec.



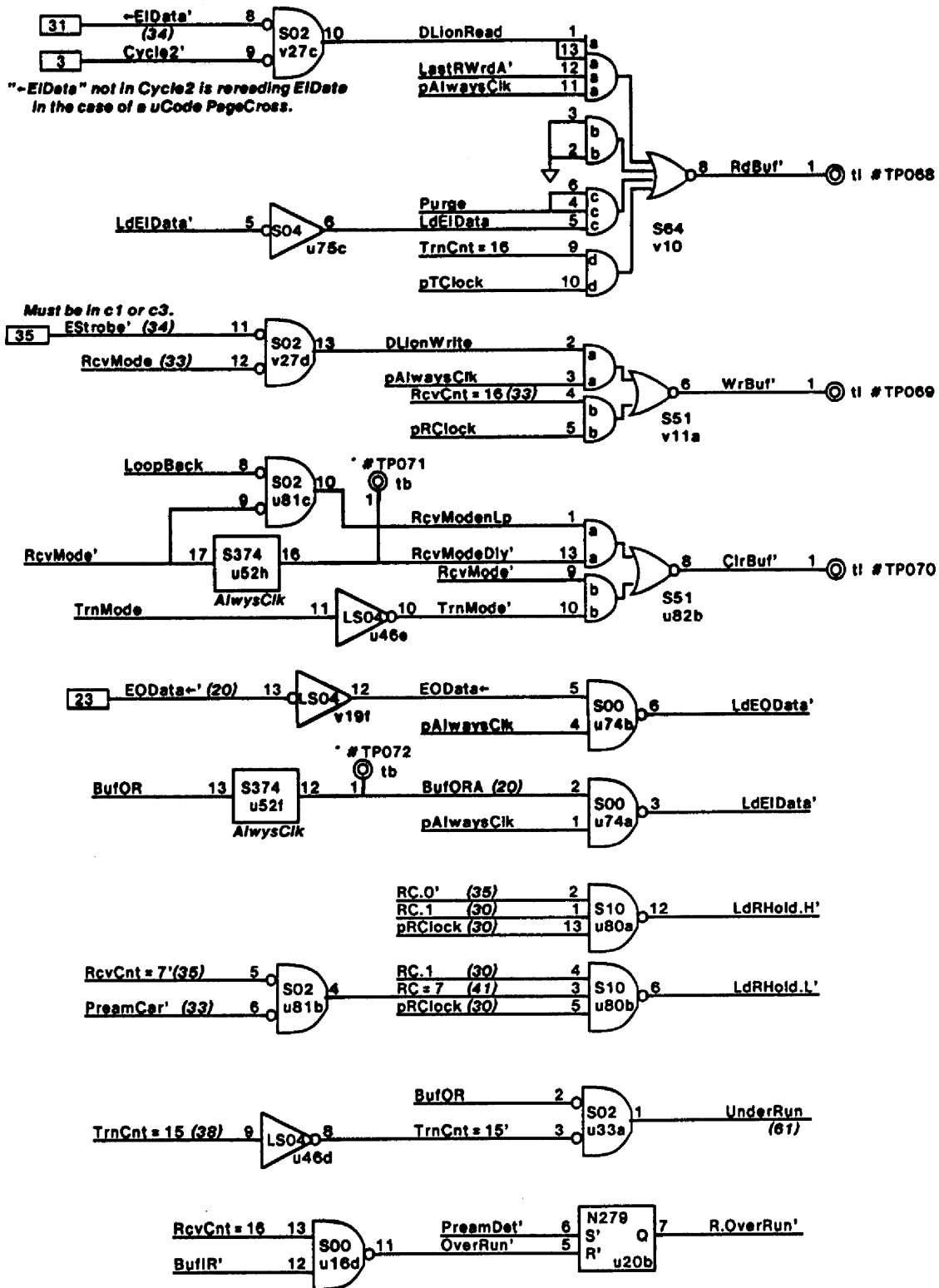
IPG Count

Inter-packet gap is 9.6 uSec.



Transmit Counters

XEROX	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE A4	DWG NO. 156P12301		SHEET REV. A
	TITLE SCHEMATIC, OPT		SHEET 05 OF		



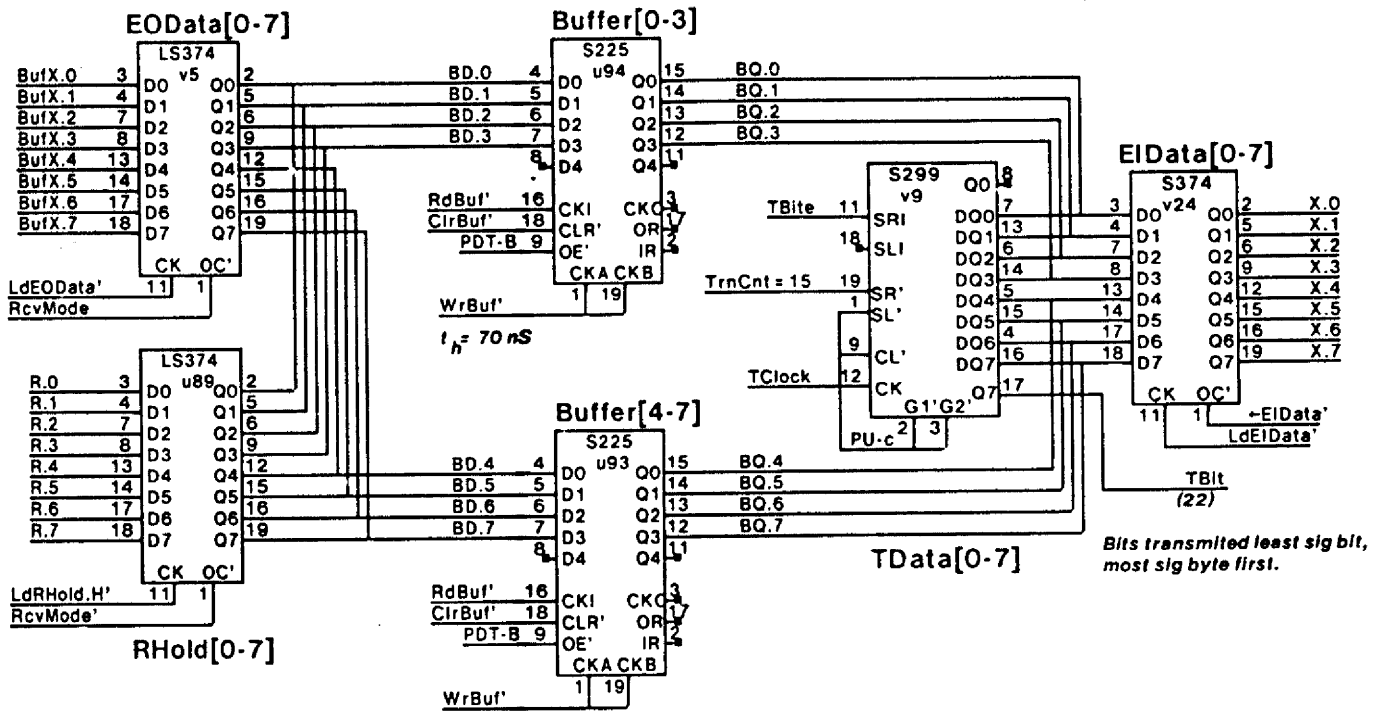
- BD.0 1 ti # TP073
- BD.1 1 ti # TP074
- BD.2 1 ti # TP075
- BD.3 1 ti # TP076
- BD.4 1 ti # TP083
- BD.5 1 ti # TP084
- BD.6 1 ti # TP085
- BD.7 1 ti # TP086
- BD.8 1 ti # TP093
- BD.9 1 ti # TP094
- BD.10 1 ti # TP095

- BD.11 1 ti # TP096
- BD.12 1 ti # TP103
- BD.13 1 ti # TP104
- BD.14 1 ti # TP105
- BD.15 1 ti # TP106
- InEOP 1 ti # TP107
- LastWord 1 ti # TP077
- GoodAlign 1 ti # TP087
- GoodCRC 1 ti # TP162
- EvenLen 1 ti # TP097

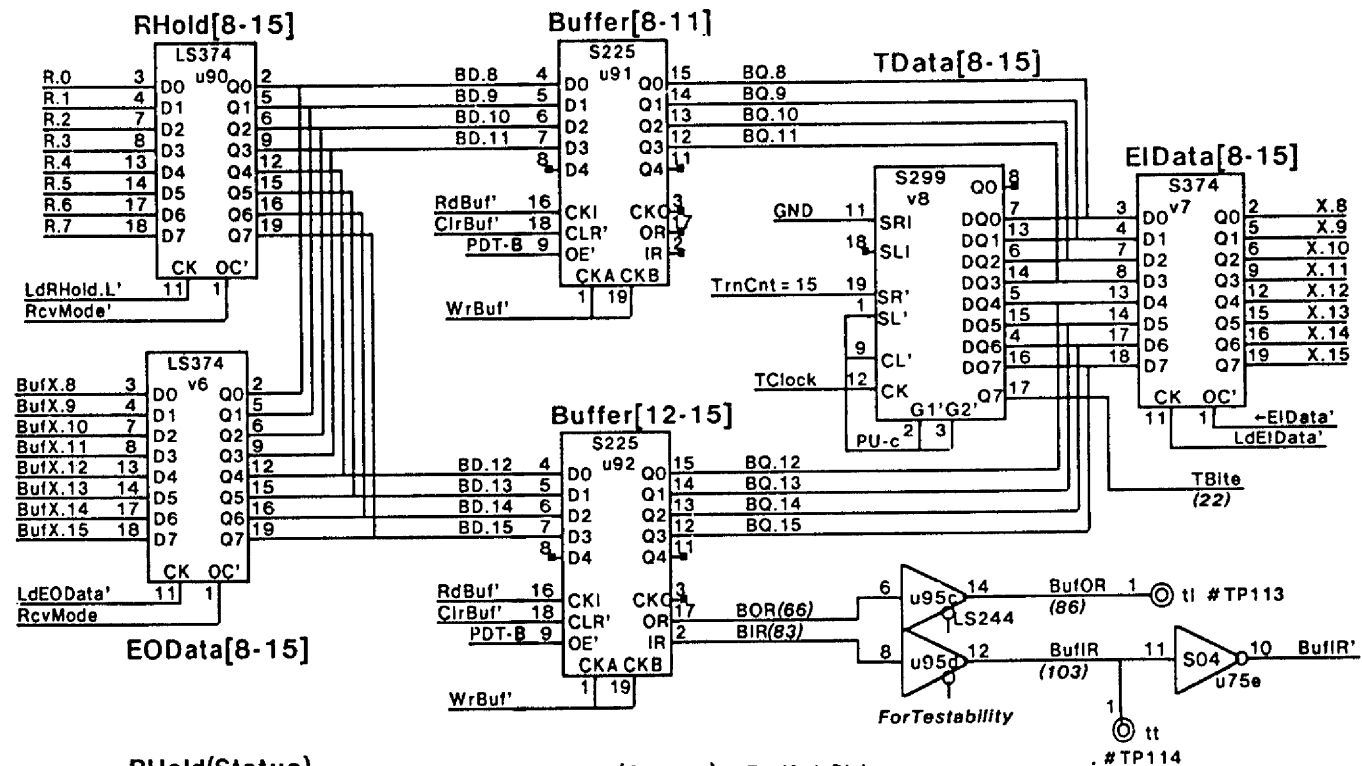
- BQ.0 1 ti # TP078
- BQ.1 1 ti # TP079
- BQ.2 1 ti # TP080
- BQ.3 1 ti # TP081
- BQ.4 1 ti # TP088
- BQ.5 1 ti # TP089
- BQ.6 1 ti # TP090
- BQ.7 1 ti # TP091
- BQ.8 1 ti # TP098
- BQ.9 1 ti # TP099
- BQ.10 1 ti # TP100

- BQ.11 1 ti # TP101
- BQ.12 1 ti # TP108
- BQ.13 1 ti # TP109
- BQ.14 1 ti # TP110
- BQ.15 1 ti # TP111
- plnEOP' 1 ti # TP112
- LastTWrd 1 ti # TP082
- R.GoodAlign 1 ti # TP092
- R.GoodCRC 1 ti # TP163
- R.EvenLen 1 ti # TP102

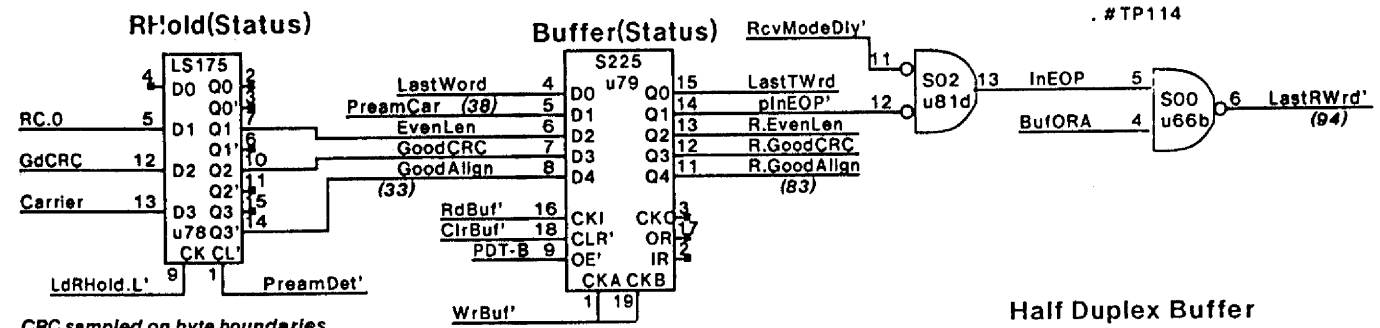
Buffer Control & Status



Bits transmitted least sig bit, most sig byte first.



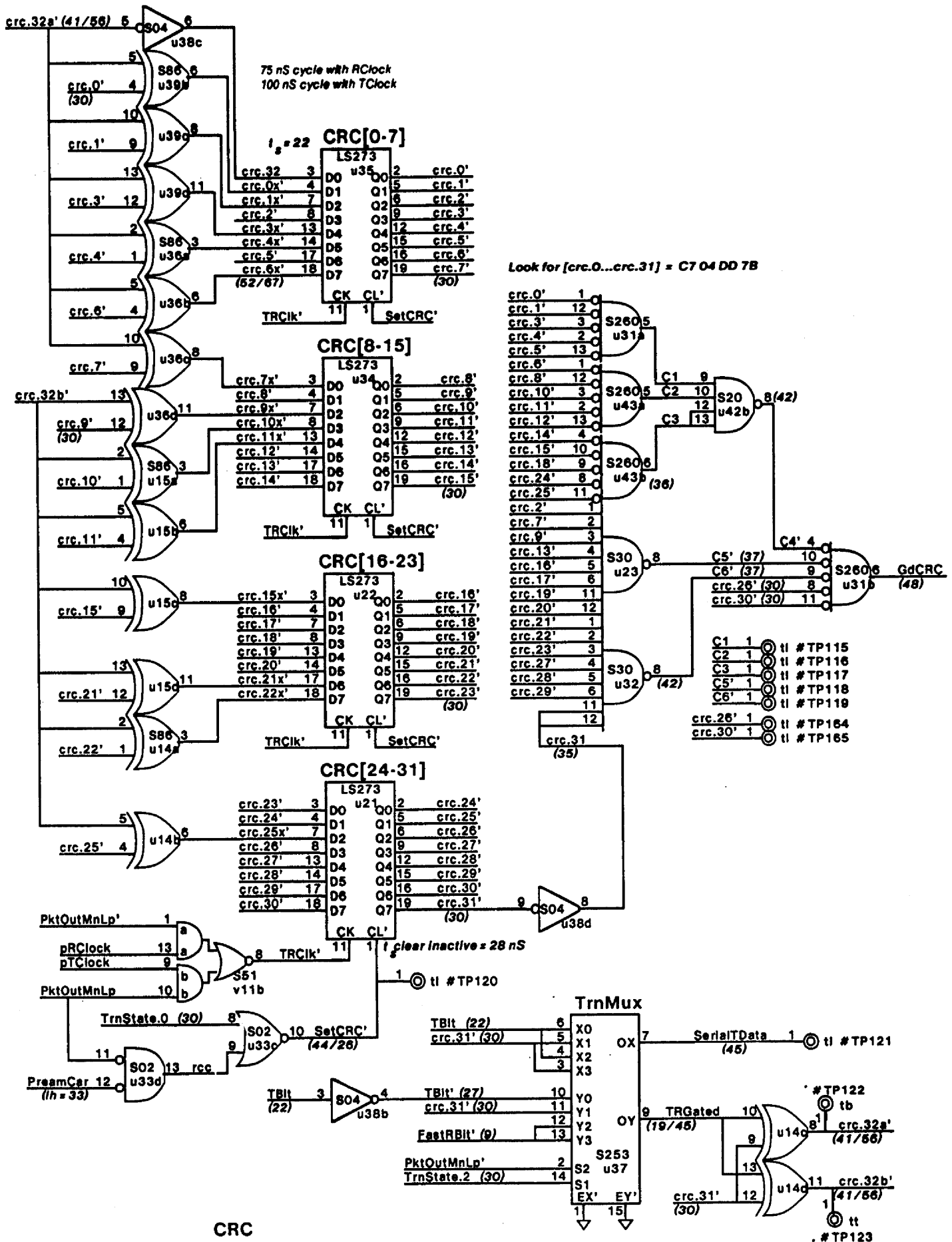
For Testability



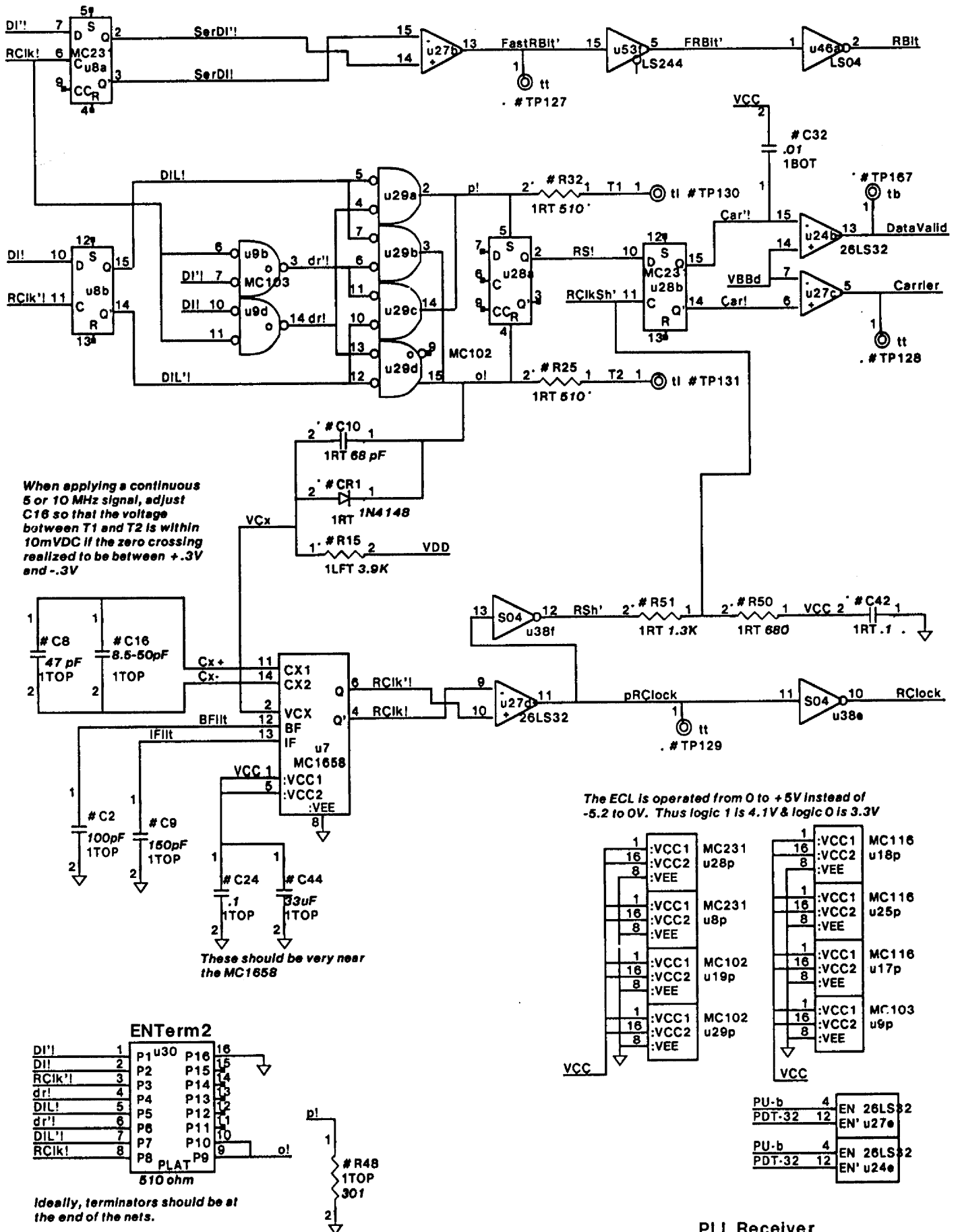
CRC sampled on byte boundaries, i.e., dribbling transceivers allowed.

Half Duplex Buffer

XEROX	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS		DWG SIZE	DWG NO. 156P12301	SHEET REV. A
	TITLE SCHEMATIC, OPT		A4	SHEET 07 OF	



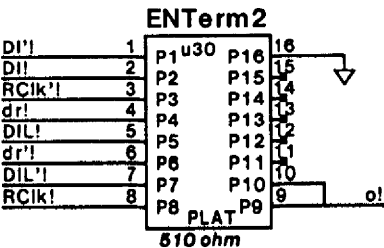
XEROX	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO. 156P12301	SHEET REV.
	TITLE SCHEMATIC, OPT	A4	SHEET 08 OF	A



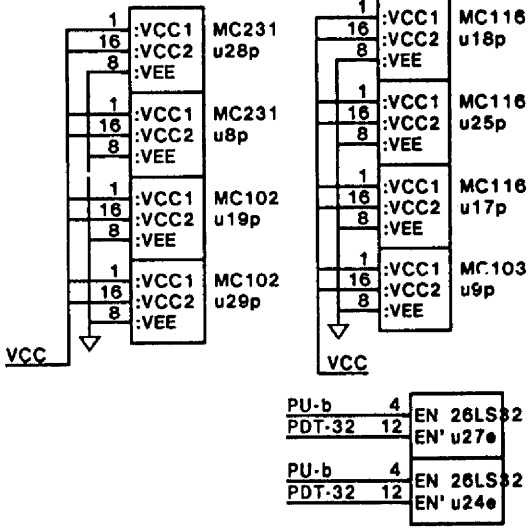
When applying a continuous 5 or 10 MHz signal, adjust C16 so that the voltage between T1 and T2 is within 10mVDC if the zero crossing realized to be between +.3V and -.3V

The ECL is operated from 0 to +5V instead of -5.2 to 0V. Thus logic 1 is 4.1V & logic 0 is 3.3V

These should be very near the MC1658

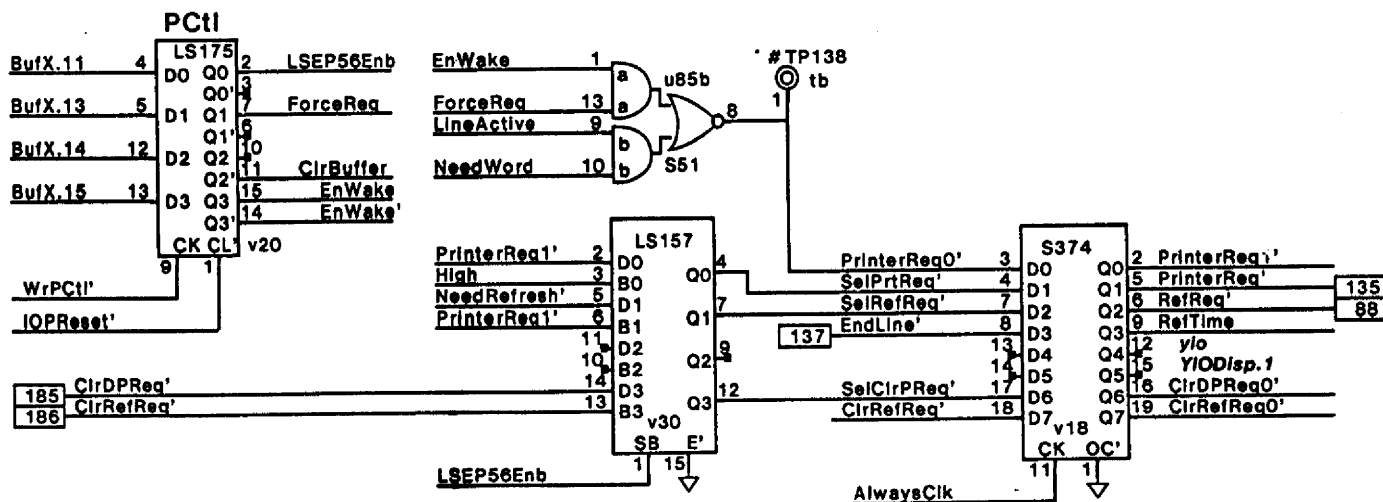
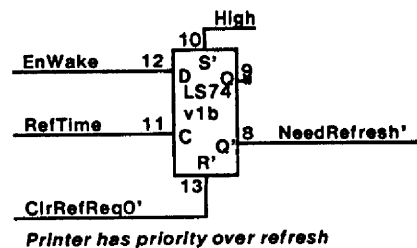
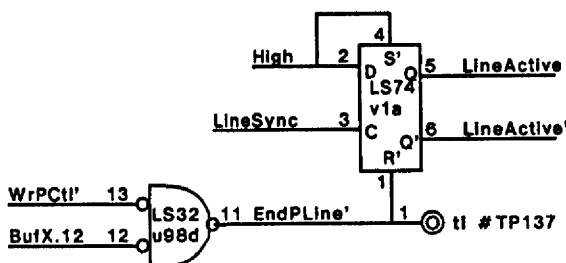
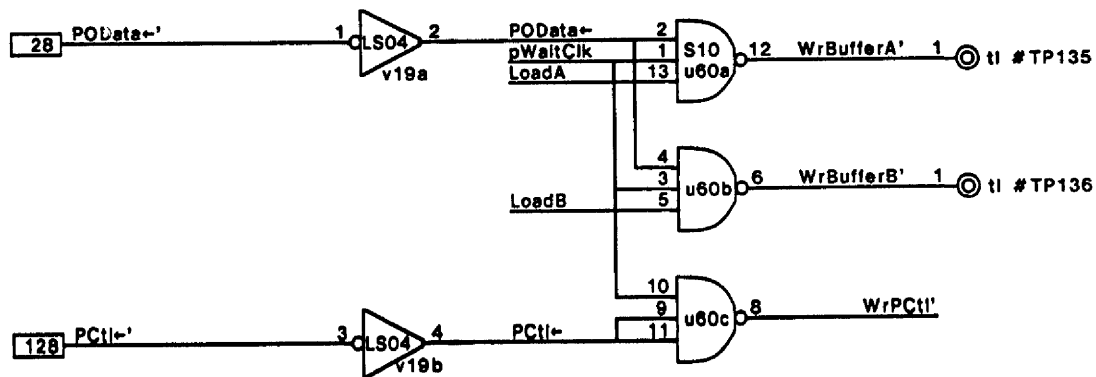
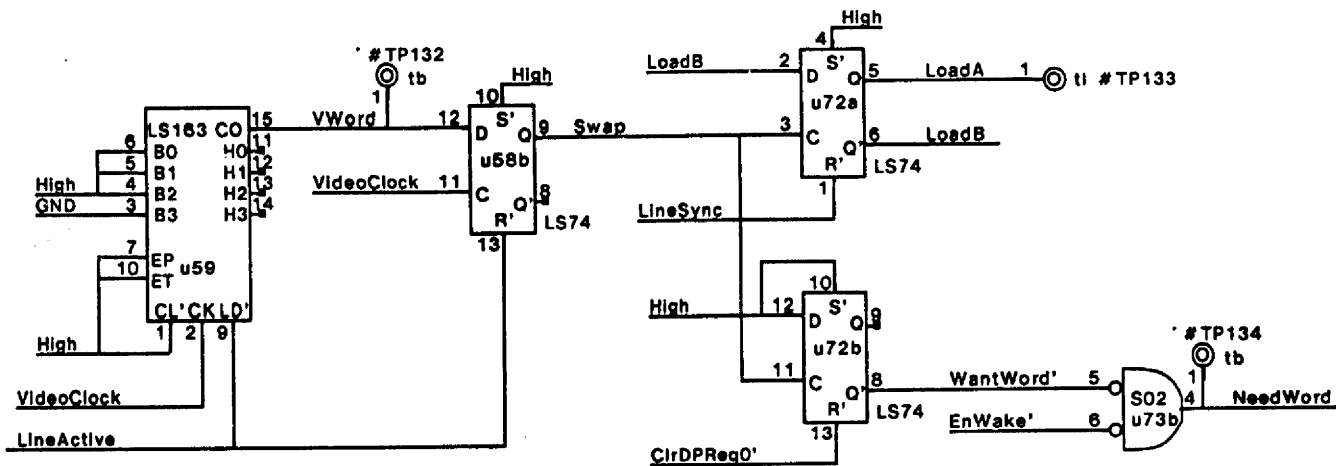


Ideally, terminators should be at the end of the nets.



PLL Receiver

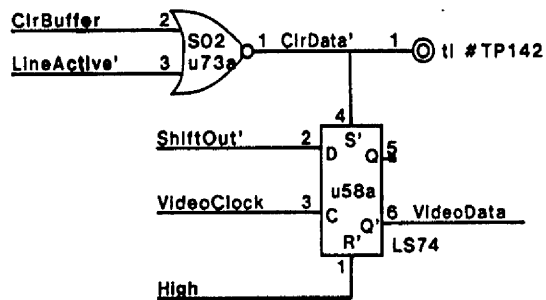
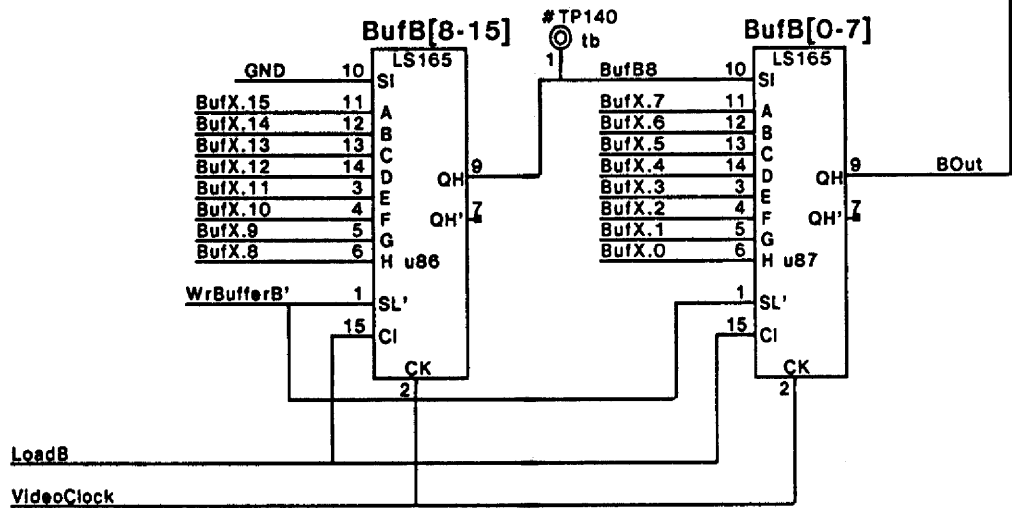
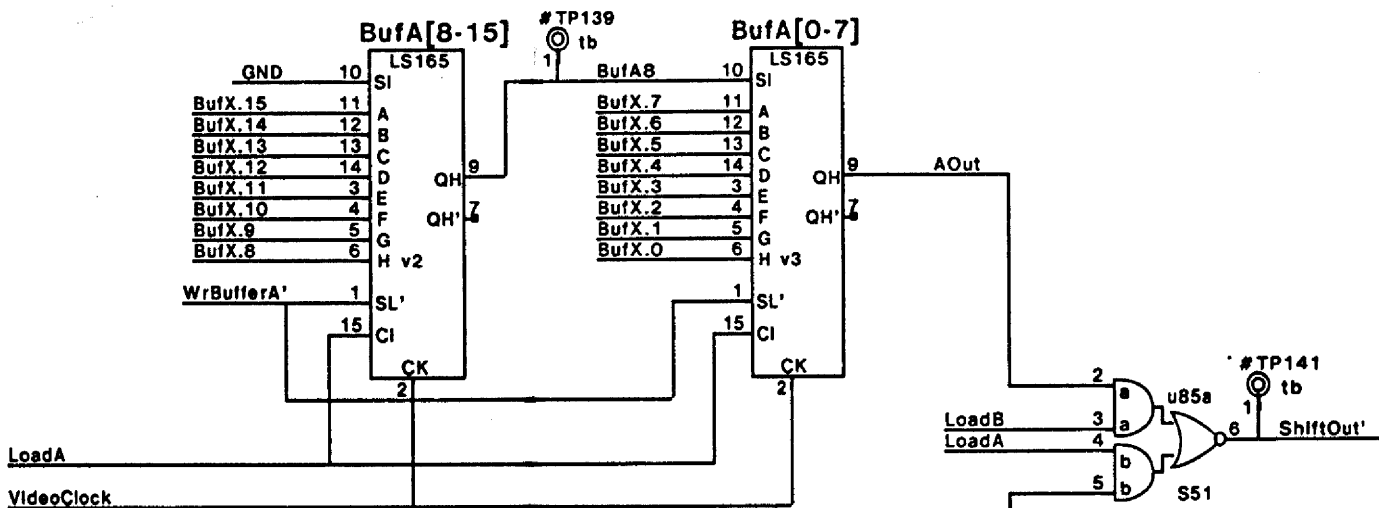
XEROX	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS		DWG NO. 156P12301	SHEET REV. A
	TITLE SCHEMATIC, OPT		SHEET 10 OF	



When the LSEP56 is present, the normal PrinterReq is deactivated and the refresh request is replaced with the LSEP56's printer request. When the LSEP56 is enabled, ClrRefReq' is used to turn off it's service request since the display will also be active.

LSEP Wakeup Logic

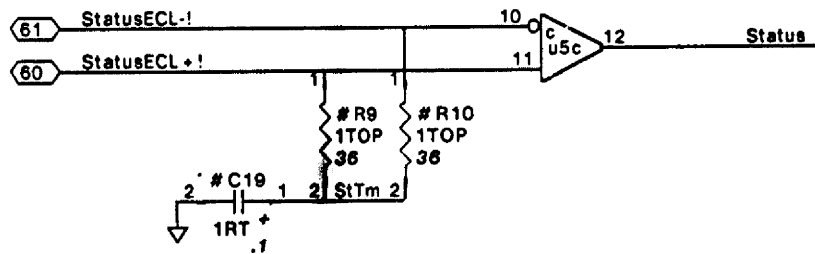
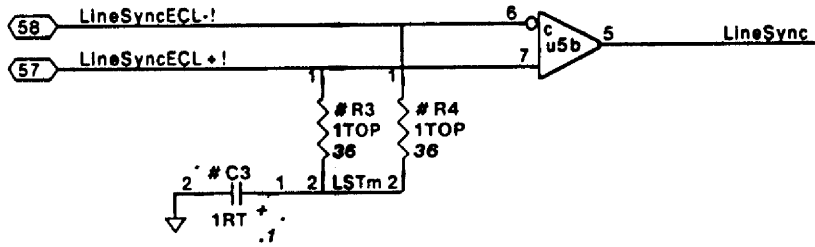
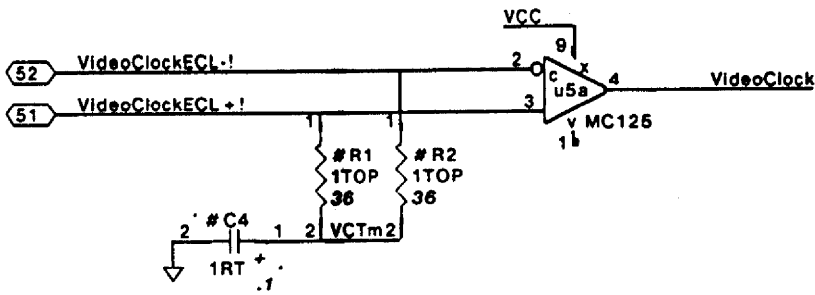
XEROX	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO. 156P12301	SHEET REV.
	TITLE SCHEMATIC, OPT	A4	SHEET 11 OF	A



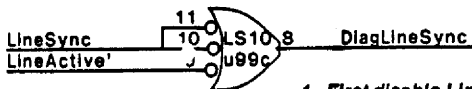
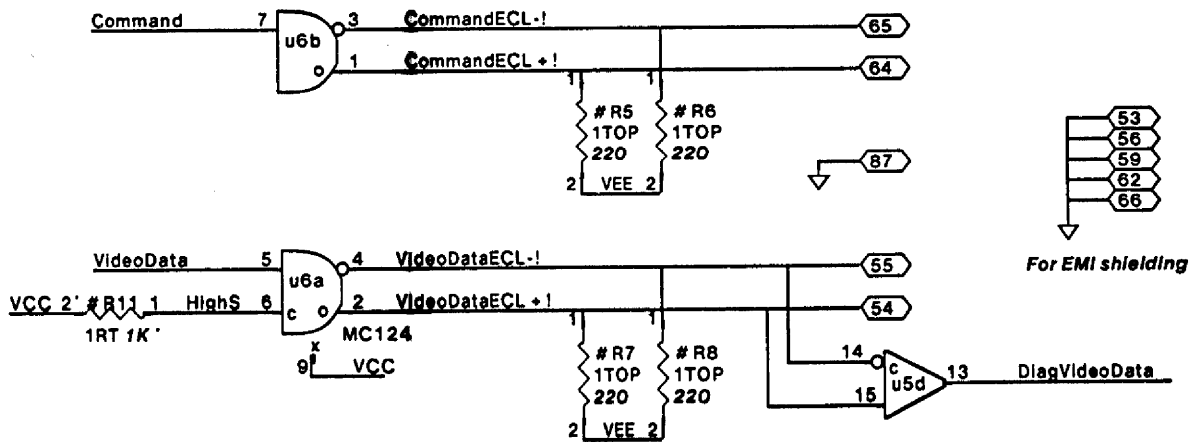
Reclocking the data avoids glitches at word boundaries

LSEP Shifters

XEROX	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS		DWG SIZE A4	DWG NO. 156P12301		SHEET REV. A
	TITLE SCHEMATIC, OPT			SHEET 12 OF		



40 Pin connector 713W12720
Subtract 60 for actual pin number



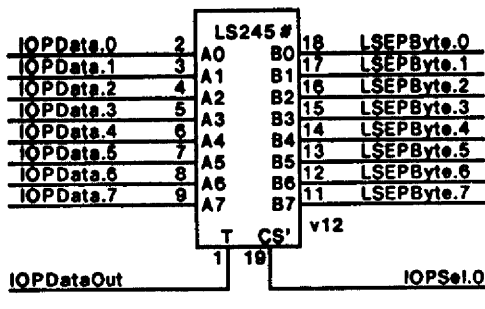
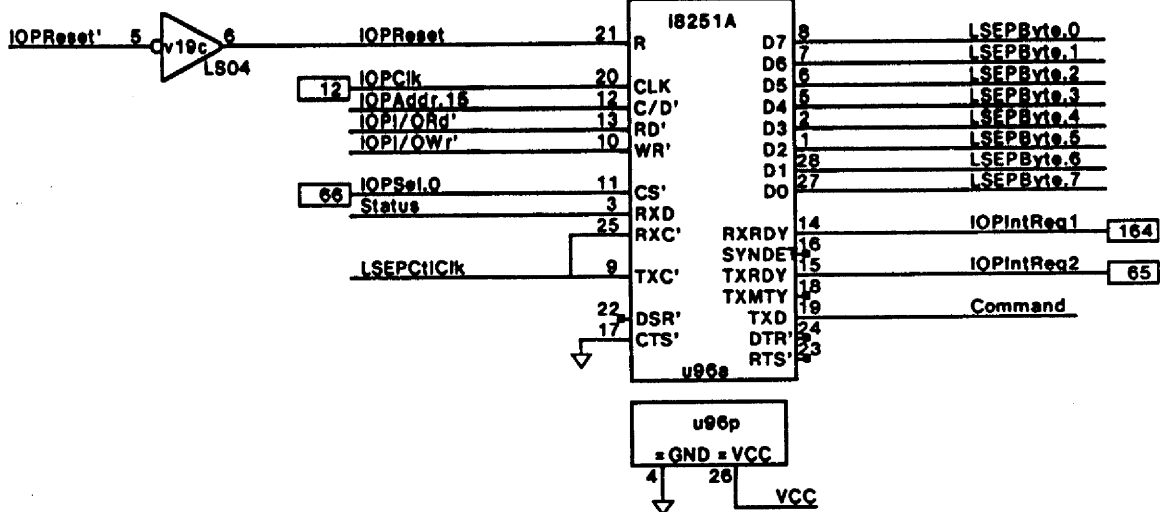
1. First disable LineActive' by setting EndPrinterLine-1.
2. DiagLineSync = 1 if LineSync is stuck 0, = 0 if LineSync is stuck 1.
3. Enable LineActive' by setting EndPrinterLine-0.
4. Sample DiagLineSync: If Line Sync has pulses, this will set LineActive' to 0, causing DiagLineSync = 1. If LineSync is not pulsing DiagLineSync = 0.



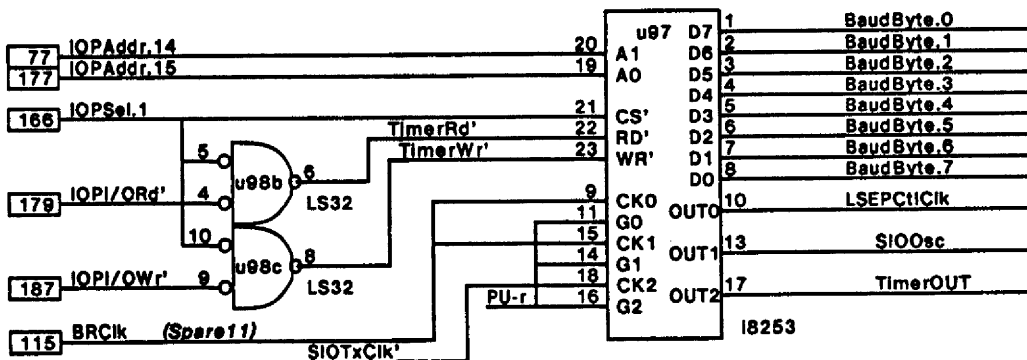
LSEP Printer Connector & Diagnostics

XEROX	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE A4	DWG NO. 156P12301	SHEET REV. A
	TITLE SCHEMATIC, OPT	SHEET 13 OF		

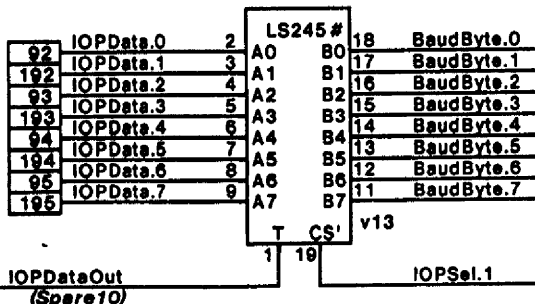
LSEP UART



Baud-rate generator

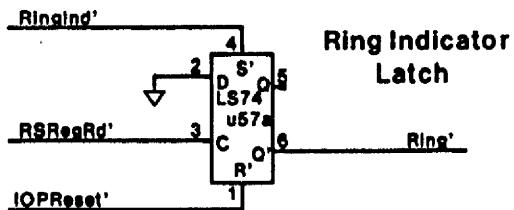


Note: Due to a design shortcoming the RD' and WR' lines of the 8253-5 must be externally qualified.

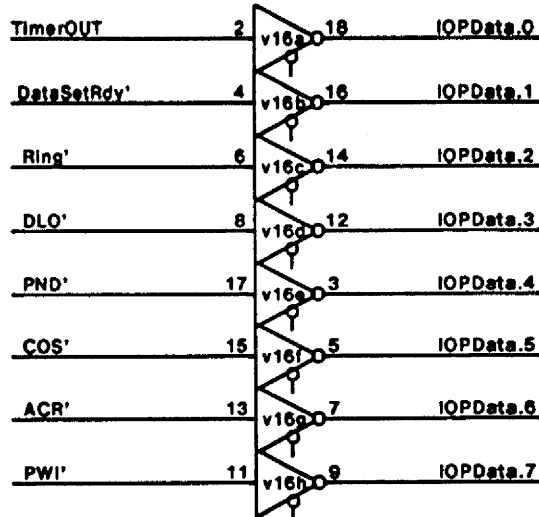


LSEP Control and Status

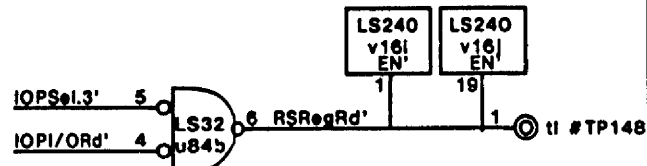
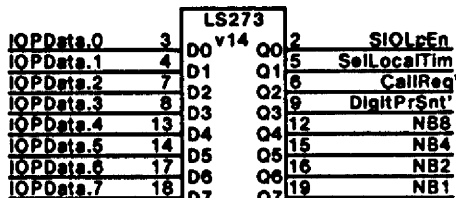
XEROX	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS		DWG SIZE	DWG NO. 156P12301	SHEET REV.
	TITLE SCHEMATIC, OPT		A4	SHEET 14 OF	A



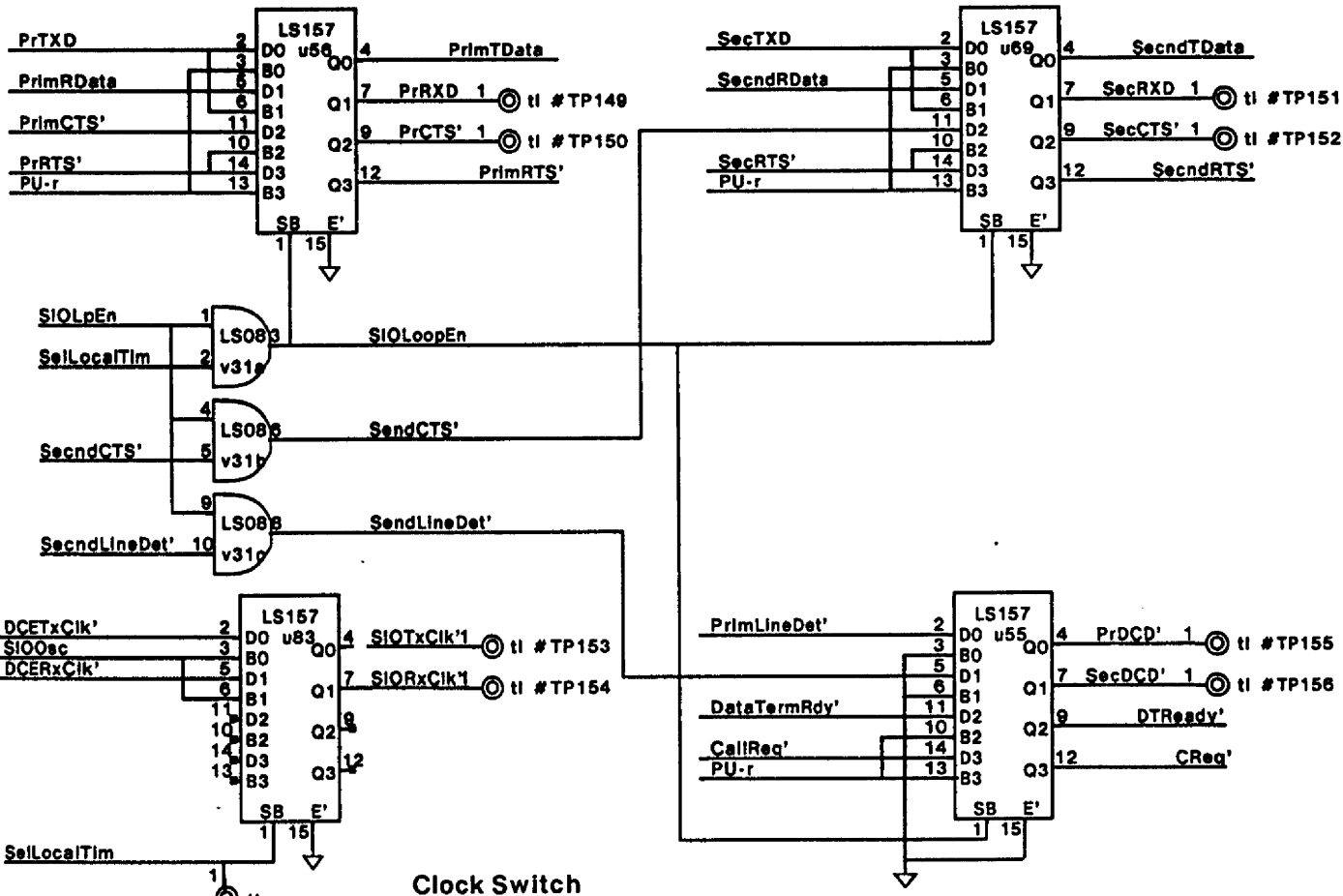
RS366 Status



RS366 Control Register

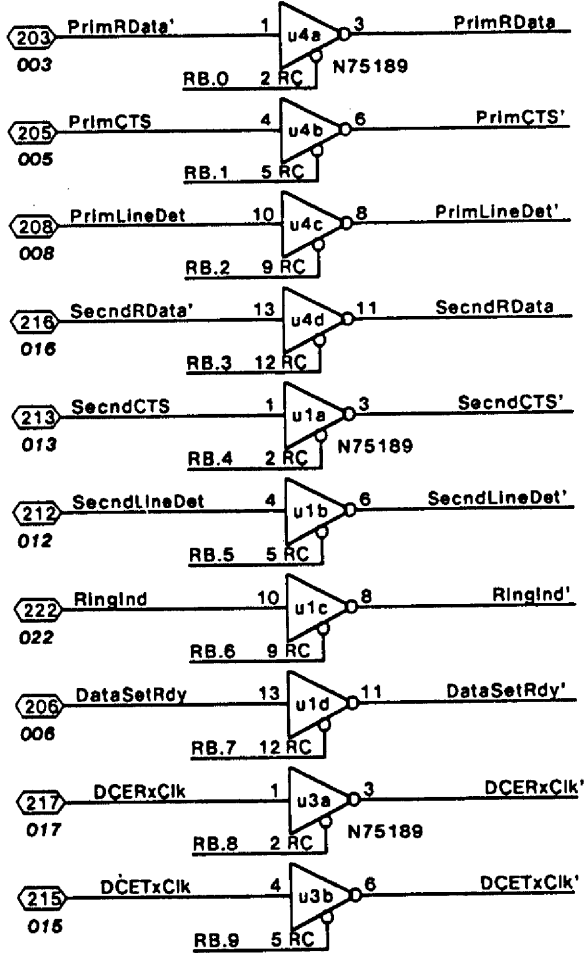


Diag Loop-Back MPX



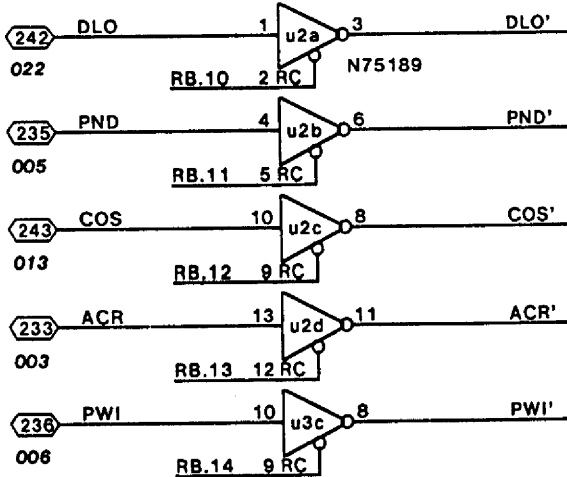
RS366 Control & Status, Diag Loop-Back MPX

RS232C Receivers

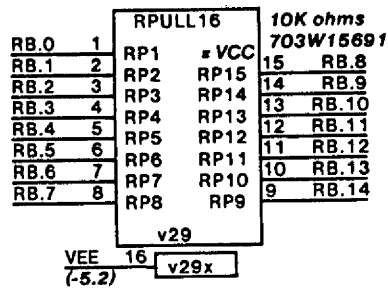
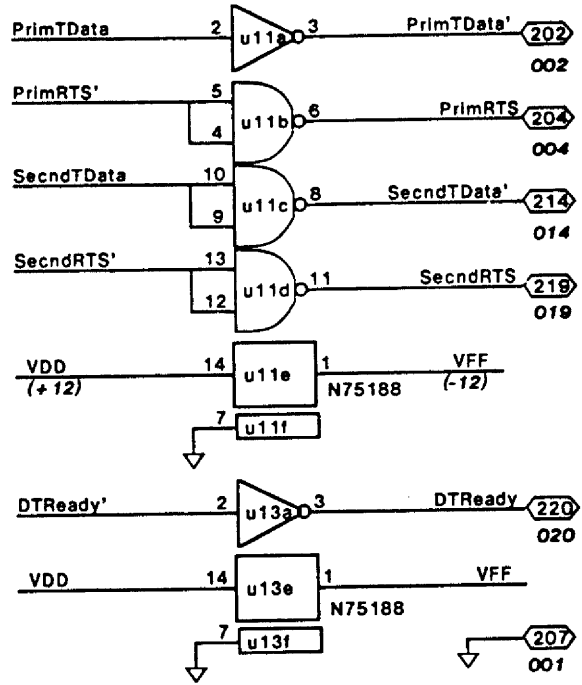


50-Pin Male Connector 713W12820
 Subtract 200 for actual pin number
 Italic pin number is DTE pin number

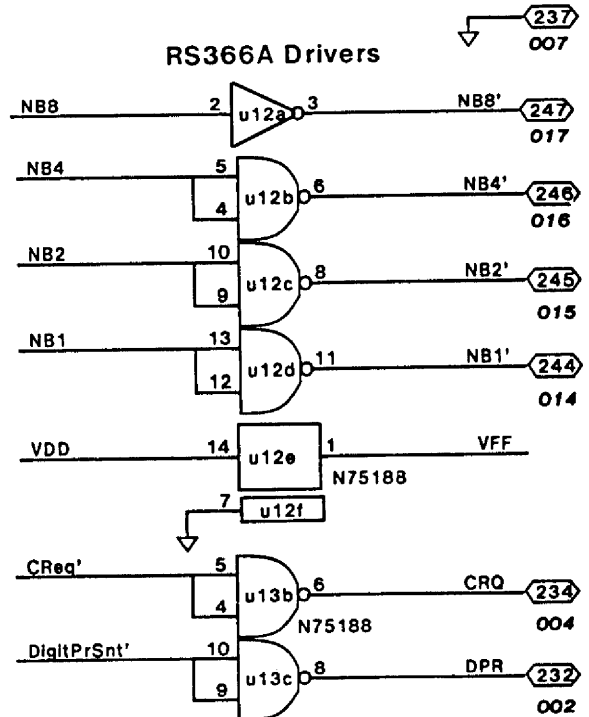
RS366A Receivers



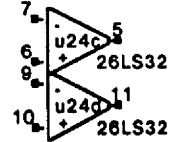
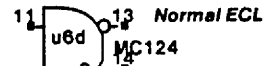
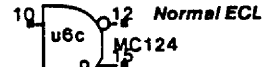
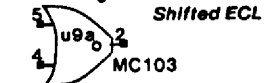
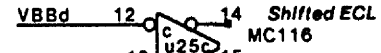
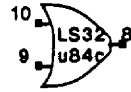
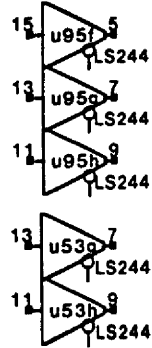
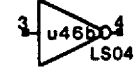
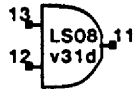
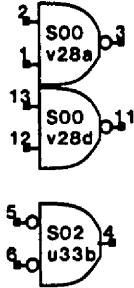
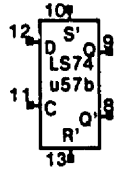
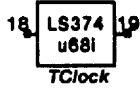
RS232C Drivers



RS366A Drivers



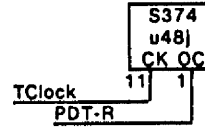
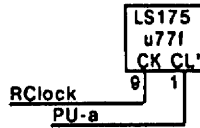
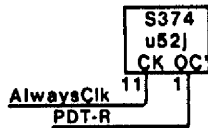
RS-232-C Driver/Receiver, RS366 Driver/Receiver



- b RdBufA'
- c RdBufAA'
- d pE'
- e EReq'
- f BufORA
- g BufIRA'
- h RcvModeDly'
- i ...

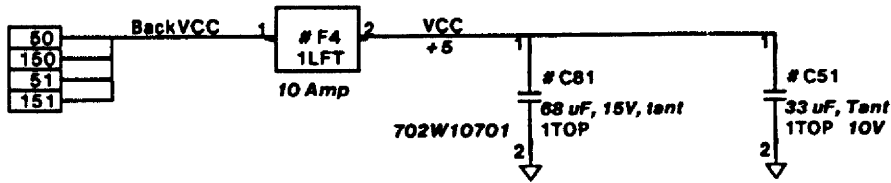
- b PktInMode'
- c RcvCnt = 16
- d CarDly
- e PreamDet'

- b BeginEnd.0
- c BeginEnd.1
- d T.UnderRun'
- e TrnCnt = 16
- f ppSTIPG
- g pSTIPG
- h SerialTDatsDly
- i SendDly

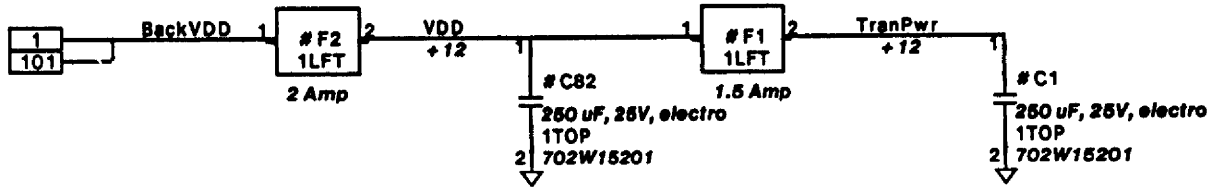
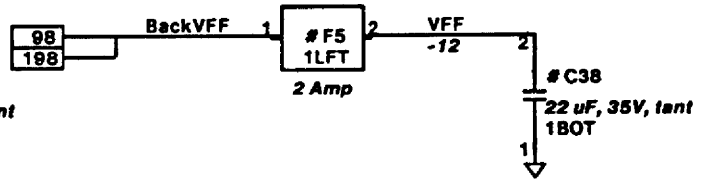
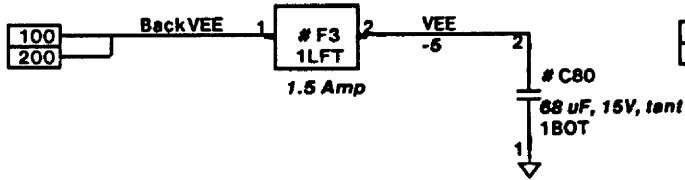


Spares, Regs Clocks,

XEROX	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE A4	DWG NO. 156P12301	SHEET REV. A
	TITLE SCHEMATIC, OPT		SHEET 18 OF	



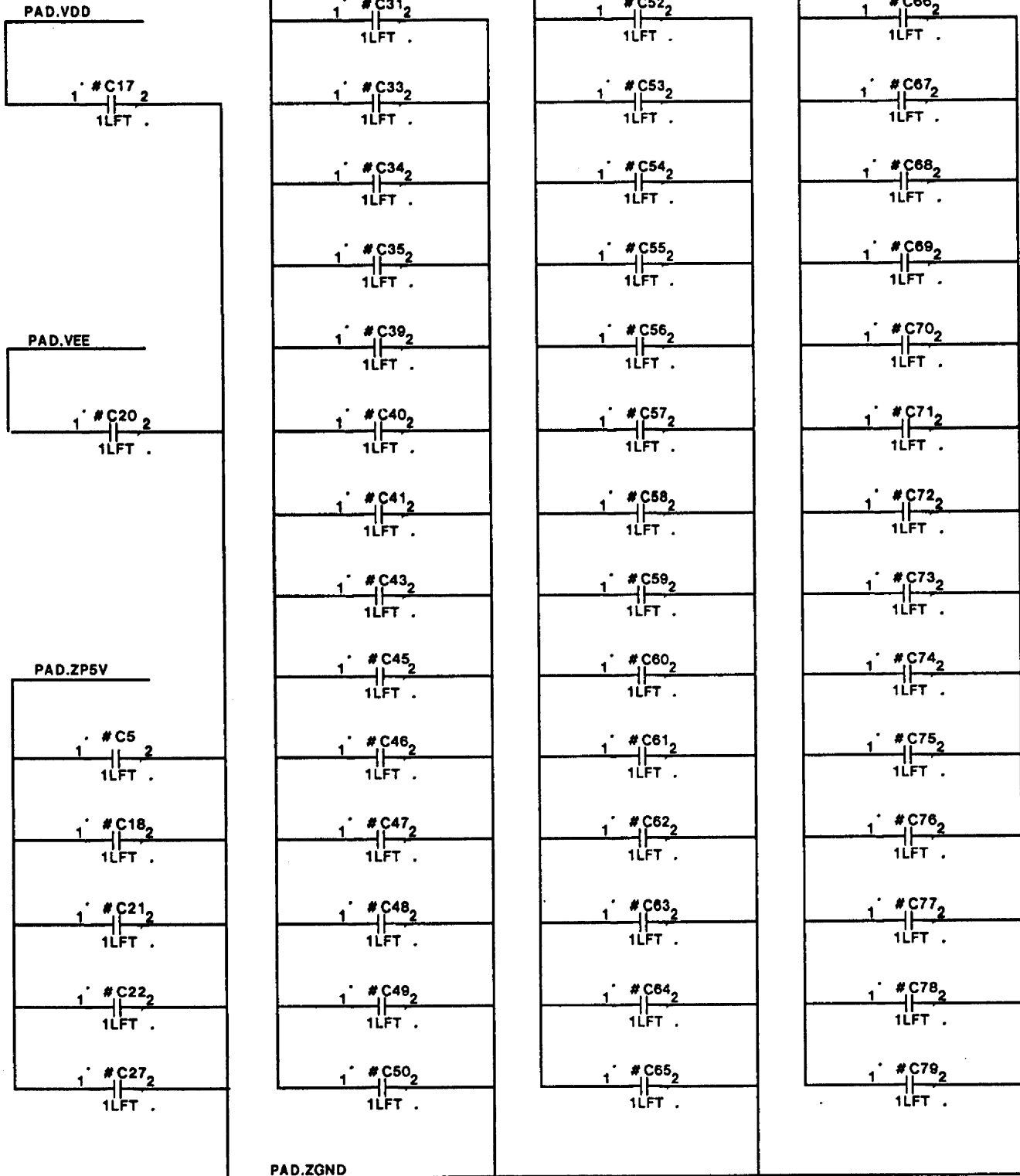
This bypass Cap should be used between the isolated 5V plane of the Ethernet ECL and the remainder of the 5V plane. It should be placed on the ~.3" trace interconnecting the 2 areas. The 26LS32's should not be included in the isolated 5VECL supply.



Fuses, Filter Caps

XEROX	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS		DWG SIZE A4	DWG NO. 156P12301		SHEET REV. A
	TITLE SCHEMATIC, OPT			SHEET 19 OF		

PAD.ZP5V



DISCRETE PAGE

NOTE: All capacitors on this page are ceramic capacitors, 50V, 0.10uf.

XEROX	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS		DWG SIZE A4	DWG NO. 156P12301		SHEET REV. A
	TITLE SCHEMATIC, OPT			SHEET 20	OF	

Comments:

- 1) Designator notation notes: u1-99 = U1-99, v0-99 = U100-199, w0-99 = U200-299
- 2) The last item on lines below, preceded by a semicolon (;), is the schematic page number on which the test point, connector or signal information originates.
- 3) Line with no page number was a continuation of the previous line.

#TP001	.1i	PDT-R	:01	#TP052	.1i	trnm	:04
#TP002	.1i	PDT-P	:01	#TP053	.1i	pktom	:04
#TP003	.1i	PDT-B	:01	#TP054	.1i	sndm	:04
#TP004	.1i	PDT-32	:01	#TP055	.1i	outa	:04
#TP005	.1i	Tester	:01	#TP056	.1i	ts.0	:04
#TP006	.1i	PU-a	:01	#TP057	.1i	ts.1	:04
#TP007	.1i	PU-b	:01	#TP058	.1i	ts.2	:04
#TP008	.1i	LoopBack	:02	#TP059	.1i	ts.3	:04
#TP009	.1i	LocalLoop	:02	#TP060	.1i	TrnCnt=15	:05
#TP010	.1i	TurnOff'	:02	#TP061	.1i	DC=8	:05
#TP011	.1i	EnableRcv	:02	#TP062	.1i	DC=128	:05
#TP012	.1i	Defer	:02	#TP063	.1i	DC=512	:05
#TP013	.1i	LastWord	:02	#TP064	.1i	TickElapsed	:05
#TP014	.1i	EnableTrn	:02	#TP065	.1i	IPGD	:05
#TP015	.1i	ppE'	:02	#TP066	.1i	IPGDone	:05
#TP016	.1i	R.0	:03	#TP067	.1i	StartIPG	:05
#TP017	.1i	PreamDet'	:03	#TP068	.1i	RdBuf'	:06
#TP018	.1i	RcvCnt=15	:03	#TP069	.1i	WrBuf'	:06
#TP019	.1i	PktInMode	:03	#TP070	.1i	ClrBuf'	:06
#TP020	.1i	PktOutMnLpAA	:03	#TP071	.1i	RcvModeDly'	:06
#TP021	.1i	LastRWrda'	:03	#TP072	.1i	BufORA	:06
#TP022	.1i	BufORAA	:03	#TP073	.1i	BD.0	:06
#TP023	.1i	PktInModeAA	:03	#TP074	.1i	BD.1	:06
#TP024	.1i	OverRunAA'	:03	#TP075	.1i	BD.2	:06
#TP025	.1i	pur	:03	#TP076	.1i	BD.3	:06
#TP026	.1i	rs.0	:03	#TP077	.1i	LastWord	:06
#TP027	.1i	rs.1	:03	#TP078	.1i	BQ.0	:06
#TP028	.1i	rs.2	:03	#TP079	.1i	BQ.1	:06
#TP029	.1i	Purge	:03	#TP080	.1i	BQ.2	:06
#TP030	.1i	RcvMode	:03	#TP081	.1i	BQ.3	:06
#TP031	.1i	RcvState.1	:03	#TP082	.1i	LastTWrd	:06
#TP032	.1i	RcvState.2	:03	#TP083	.1i	BD.4	:06
#TP033	.1i	IPGDone	:04	#TP084	.1i	BD.5	:06
#TP034	.1i	LastTWrdT	:04	#TP085	.1i	BD.6	:06
#TP035	.1i	RcvModeTT	:04	#TP086	.1i	BD.7	:06
#TP036	.1i	T.CollisionTT'	:04	#TP087	.1i	GoodAlign	:06
#TP037	.1i	UnderRunT	:04	#TP088	.1i	BQ.4	:06
#TP038	.1i	be.0	:04	#TP089	.1i	BQ.5	:06
#TP039	.1i	be.1	:04	#TP090	.1i	BQ.6	:06
#TP040	.1i	tund	:04	#TP091	.1i	BQ.7	:06
#TP041	.1i	BeginEnd.0	:04	#TP092	.1i	R.GoodAlign	:06
#TP042	.1i	BeginEnd.1	:04	#TP093	.1i	BD.8	:06
#TP043	.1i	T.UnderRun'	:04	#TP094	.1i	BD.9	:06
#TP044	.1i	PktOutMode	:04	#TP095	.1i	BD.10	:06
#TP045	.1i	TrnMode	:04	#TP096	.1i	BD.11	:06
#TP046	.1i	SendMode	:04	#TP097	.1i	EvenLen	:06
#TP047	.1i	OutAttn	:04	#TP098	.1i	BQ.8	:06
#TP048	.1i	TrnState.0	:04	#TP099	.1i	BQ.9	:06
#TP049	.1i	TrnState.1	:04	#TP100	.1i	BQ.10	:06
#TP050	.1i	TrnState.2	:04	#TP101	.1i	BQ.11	:06
#TP051	.1i	TrnState.3	:04	#TP102	.1i	R.EvenLen	:06

XEROX	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS		DWG SIZE A4	DWG NO. 156P12301		SHEET REV. A
	TITLE	SCHEMATIC, OPT		SHEET	21 OF	

#TP103	.1i	BD.12	:06	#TP162	.1i	GoodCRC	:06
#TP104	.1i	BD.13	:06	#TP163	.1i	R.GoodCRC	:06
#TP105	.1i	BD.14	:06	#TP164	.1i	crc.26'	:08
#TP106	.1i	BD.15	:06	#TP165	.1i	crc.30'	:08
#TP107	.1i	InEOP	:06	#TP166	.1i	DeferCar	:09
#TP108	.1i	BQ.12	:06	#TP167	.1i	DataValid	:10
#TP109	.1i	BQ.13	:06				
#TP110	.1i	BQ.14	:06	C051		VideoClockECL+	:13
#TP111	.1i	BQ.15	:06	C052		VideoClockECL-	:13
#TP112	.1i	pInEOP'	:06	C053		GND	:13
#TP113	.1i	BufOR	:07	C054		VideoDataECL+	:13
#TP114	.1i	BufIR	:07	C055		VideoDataECL-	:13
#TP115	.1i	C1	:08	C056		GND	:13
#TP116	.1i	C2	:08	C057		LineSyncECL+	:13
#TP117	.1i	C3	:08	C058		LineSyncECL-	:13
#TP118	.1i	C5'	:08	C059		GND	:13
#TP119	.1i	C6'	:08	C060		StatusECL+	:13
#TP120	.1i	SetCRC'	:08	C061		StatusECL-	:13
#TP121	.1i	SerialTData	:08	C062		GND	:13
#TP122	.1i	crc.32a'	:08	C064		CommandECL+	:13
#TP123	.1i	crc.32b'	:08	C065		CommandECL-	:13
#TP124	.1i	Trn	:09	C066		GND	:13
#TP125	.1i	TDb1Clock	:09	C069		Collision+	:09
#TP126	.1i	Coll	:09	C070		Collision-	:09
#TP127	.1i	FastRBit'	:10	C071		Transmit-	:09
#TP128	.1i	Carrier	:10	C072		Transmit+	:09
#TP129	.1i	pRClock	:10	C073		Receive-	:09
#TP130	.1i	T1	:10	C074		Receive+	:09
#TP131	.1i	T2	:10	C083		GND	:09
#TP132	.1i	VWord	:11	C084		TranPwr	:09
#TP133	.1i	LoadA	:11	C087		GND	:13
#TP134	.1i	NeedWord	:11	C089		GND	:09
#TP135	.1i	WrBufferA'	:11	C090		TranPwr	:09
#TP136	.1i	WrBufferB'	:11	C202		PrimTData'	:17
#TP137	.1i	EndPLine'	:11	C203		PrimRData'	:17
#TP138	.1i	PrinterReq0'	:11	C204		PrimRTS	:17
#TP139	.1i	BufA8	:12	C205		PrimCTS	:17
#TP140	.1i	BufB8	:12	C206		DataSetRdy	:17
#TP141	.1i	ShiftOut'	:12	C207		GND	:17
#TP142	.1i	ClrData'	:12	C208		PrimLineDet	:17
#TP143	.1i	SIOIORQ'	:15	C212		SecndLineDet	:17
#TP144	.1i	SIOClk	:15	C213		SecndCTS	:17
#TP145	.1i	SIOCE'	:15	C214		SecndTData'	:17
#TP146	.1i	SIOBA	:15	C215		DCETxC1k	:17
#TP147	.1i	SIOCD	:15	C216		SecndRData'	:17
#TP148	.1i	RSRegRd'	:16	C217		DCERxC1k	:17
#TP149	.1i	PrRXD	:16	C219		SecndRTS	:17
#TP150	.1i	PrCTS'	:16	C220		DTReady	:17
#TP151	.1i	SecRXD	:16	C222		RingInd	:17
#TP152	.1i	SecCTS'	:16	C232		DPR	:17
#TP153	.1i	SIOTxC1k'	:16	C233		ACR	:17
#TP154	.1i	SIORxC1k'	:16	C234		CRQ	:17
#TP155	.1i	PrDCD'	:16	C235		PND	:17
#TP156	.1i	SecDCD'	:16	C236		PWI	:17
#TP157	.1i	Se1LocalTim	:16	C237		GND	:17
#TP158	.1i	RdBufD'	:03	C242		DLO	:17
#TP159	.1i	RdBufA'	:03	C243		COS	:17
#TP160	.1i	RdBufAA'	:03	C244		NB1'	:17
#TP161	.1i	IgnoreOR	:03	C245		NB2'	:17

XEROX	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS		DWG SIZE A4	DWG NO. 156P12301		SHEET REV. A
	TITLE	SCHEMATIC, OPT		SHEET	22 OF	

E001	BackVDD	:19	E161	DmaAckA'	:15
E003	Cycle2'	:06	E162	DmaAckB'	:15
E009	ppCLK	:01	E163	IOPSe12'	:15
E012	IOPC1k	:14	E164	IOPIntReq1	:14
E015	IOPDataOut	:14	E166	IOPSe1.1	:14
E017	Wait	:01	E167	IOPSe1.3'	:16
E023	E0Data←'	:06	E177	IOPAddr.15	:14
E028	POData←'	:11	E179	IOPI/ORd'	:14
E031	←EIData'	:06	E185	ClrDPReq'	:11
E035	EStrobe'	:06	E186	ClrRefReq'	:11
E039	GND	:02	E187	IOPI/OWr'	:14
E041	X.0	:01	E192	IOPData.1	:14
E042	X.2	:01	E193	IOPData.3	:14
E043	X.4	:01	E194	IOPData.5	:14
E044	X.6	:01	E195	IOPData.7	:14
E045	X.8	:01	E198	BackVFF	:19
E046	X.10	:01	E200	BackVEE	:19
E047	X.12	:01			
E048	X.14	:01	ACR': v16.13i	:16	
E050	BackVCC	:19	ACR': u02.11o	:17	
E051	BackVCC	:19	ACR: C233, u02.13i	:17	
E061	DmaReqA	:15	AlwaysClk: u75.12o	:01	
E062	DmaReqB	:15	AlwaysClk: u63.9i	:03	
E064	IOPIntReq0	:15	AlwaysClk: u65.11i	:03	
E065	IOPIntReq2	:14	AlwaysClk: v18.11i	:11	
E066	IOPSe1.0	:14	AlwaysClk: u52.11i	:18	
E067	IOPSe12'	:15			
E077	IOPAddr.14	:14	AOut: v03.9o, u85.2i	:12	
E086	EReq'	:02			
E088	RefReq'	:11	Attn: u61.8o, v18.13i	:02	
E092	IOPData.0	:14	Attn: u62.9i, u62.10i	:02	
E093	IOPData.2	:14			
E094	IOPData.4	:14	BA': v00.6o, v00.12i	:15	
E095	IOPData.6	:14			
E098	BackVFF	:19	BackVCC: E150, E51, E151, E50	:19	
E100	BackVEE	:19	BackVCC: #F4.1i		
E101	BackVDD	:19	BackVDD: E101, E1, #F2.1i	:19	
E115	BRC1k	:14			
E117	IOPReset'	:02	BackVEE: E200, E100, #F3.1i	:19	
E123	EICt1←'	:02	BackVFF: E198, E98, #F5.1i	:19	
E126	EOct1←'	:02			
E128	PCT1←'	:11			
E131	←EStatus'	:02	BaudByte.0: v13.18o	:14	
E135	PrinterReq'	:11	BaudByte.0: u97.1o	:14	
E137	EndLine'	:11			
E139	YIODisp.1	:02	BaudByte.1: v13.17o	:14	
E141	X.1	:01	BaudByte.1: u97.2o	:14	
E142	X.3	:01			
E143	X.5	:01	BaudByte.2: v13.16o	:14	
E144	X.7	:01	BaudByte.2: u97.3o	:14	
E145	X.9	:01			
E146	X.11	:01	BaudByte.3: v13.15o	:14	
E147	X.13	:01	BaudByte.3: u97.4o	:14	
E148	X.15	:01			
E150	BackVCC	:19	BaudByte.4: v13.14o	:14	
E151	BackVCC	:19			

XEROX	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS		DWG SIZE A4	DWG NO. 156P12301	SHEET REV. A
	TITLE SCHEMATIC, OPT		SHEET 23	OF	

BaudByte.4: u97.5o ;14
 BaudByte.5: v13.13o ;14
 BaudByte.6: u97.6o ;14
 BaudByte.6: v13.12o ;14
 BaudByte.6: u97.7o ;14
 BaudByte.7: v13.11o ;14
 BaudByte.7: u97.8o ;14
 BD.0: #TP073.1i ;06
 BD.0: u89.2o, v05.2o, u94.4i ;07
 BD.10: #TP095.1i ;06
 BD.10: v06.6o, u90.6o, u91.6i ;07
 BD.11: #TP096.1i ;06
 BD.11: v06.9o, u90.9o, u91.7i ;07
 BD.12: #TP103.1i ;06
 BD.12: u90.12o, v06.12o, u92.4i ;07
 BD.13: #TP104.1i ;06
 BD.13: u90.15o, v06.15o, u92.5i ;07
 BD.14: #TP105.1i ;06
 BD.14: u90.16o, v06.16o, u92.6i ;07
 BD.15: #TP106.1i ;06
 BD.15: u90.19o, v06.19o, u92.7i ;07
 BD.1: #TP074.1i ;06
 BD.1: u89.5o, v05.5o, u94.5i ;07
 BD.2: #TP075.1i ;06
 BD.2: u89.6o, v05.6o, u94.6i ;07
 BD.3: #TP076.1i ;06
 BD.3: u89.9o, v05.9o, u94.7i ;07
 BD.4: #TP083.1i ;06
 BD.4: v05.12o, u89.12o, u93.4i ;07
 BD.5: #TP084.1i ;06
 BD.5: v05.15o, u89.15o, u93.5i ;07
 BD.6: #TP085.1i ;06
 BD.6: v05.16o, u89.16o, u93.6i ;07
 BD.7: #TP086.1i ;06
 BD.7: v05.19o, u89.19o, u93.7i ;07
 BD.8: #TP093.1i ;06
 BD.8: v06.2o, u90.2o, u91.4i ;07
 BD.9: #TP094.1i ;06
 BD.9: v06.5o, u90.5o, u91.5i ;07

be.0: u67.9o, u48.3i ;04
 be.0: #TP038.1i ;04
 be.1: u67.10o, u48.4i ;04
 be.1: #TP039.1i ;04
 BeginEnd.0: u48.2o, #TP041.1i ;04
 BeginEnd.0: u49.1i ;04
 BeginEnd.0: u50.1i ;04
 BeginEnd.1: u48.5o, #TP042.1i ;04
 BeginEnd.1: u49.2i ;04
 BeginEnd.1: u50.2i ;04
 BFilt: #C2.1i, u07.12i ;10
 BIR: u92.2o, u95.8i ;07
 BOR: u92.17o, u95.6i ;07
 BOut: u87.9o, u85.5i ;12
 BQ.0: #TP078.1i ;06
 BQ.0: u94.15o, v24.3i, v09.7o ;07
 BQ.10: #TP100.1i ;06
 BQ.10: u91.13o, v07.7i, v08.6o ;07
 BQ.11: #TP101.1i ;06
 BQ.11: u91.12o, v07.8i, v08.14o ;07
 BQ.12: #TP108.1i ;06
 BQ.12: u92.15o, v07.13i, v08.5o ;07
 BQ.13: #TP109.1i ;06
 BQ.13: u92.14o, v07.14i, v08.15o ;07
 BQ.14: #TP110.1i ;06
 BQ.14: u92.13o, v07.17i, v08.4o ;07
 BQ.15: #TP111.1i ;06
 BQ.15: u92.12o, v07.18i, v08.16o ;07
 BQ.1: #TP079.1i ;06
 BQ.1: u94.14o, v24.4i, v09.13o ;07
 BQ.2: #TP080.1i ;06
 BQ.2: u94.13o, v24.7i, v09.6o ;07
 BQ.3: #TP081.1i ;06
 BQ.3: u94.12o, v24.8i, v09.14o ;07
 BQ.4: #TP088.1i ;06
 BQ.4: u93.15o, v24.13i, v09.5o ;07
 BQ.5: #TP089.1i ;06
 BQ.5: u93.14o, v24.14i, v09.15o ;07
 BQ.6: #TP090.1i ;06

XEROX	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS		DWG SIZE A4	DWG NO. 156P12301	SHEET REV. A
	TITLE SCHEMATIC, OPT		SHEET 24	OF	

BQ.6: u93.13o, v24.17i, v09.4o ;07	BufX.12: v02.14i ;12
	BufX.12: u86.14i ;12
BQ.7: #TP091.1i ;06	
BQ.7: u93.12o, v24.18i, v09.16o ;07	BufX.13: v21.16o ;01
	BufX.13: v26.5i ;02
BQ.8: #TP098.1i ;06	BufX.13: v25.5i ;02
BQ.8: u91.15o, v07.3i, v08.7o ;07	BufX.13: v06.14i ;07
	BufX.13: v20.5i ;11
BQ.9: #TP099.1i ;06	BufX.13: v02.13i ;12
BQ.9: u91.14o, v07.4i, v08.13o ;07	BufX.13: u86.13i ;12
BRC1k: E115, u97.15i, u97.9i ;14	BufX.14: v21.14o ;01
	BufX.14: v26.12i ;02
BufA8: #TP139.1i, v02.9o, v03.10i ;12	BufX.14: v25.12i ;02
	BufX.14: v06.17i ;07
BufB8: #TP140.1i, u86.9o, u87.10i ;12	BufX.14: v20.12i ;11
	BufX.14: v02.12i ;12
BufIR': u52.14i ;06	BufX.14: u86.12i ;12
BufIR': u16.12i ;06	
BufIR': u75.10o ;07	BufX.15: v21.12o ;01
	BufX.15: v26.13i ;02
BufIR: u62.13i ;02	BufX.15: v25.13i ;02
BufIR: #TP114.1i, u95.12o, u75.11i ;07	BufX.15: v06.18i ;07
	BufX.15: v20.13i ;11
BufIRA': u52.15o, u80.9i ;05	BufX.15: v02.11i ;12
	BufX.15: u86.11i ;12
BufOR: u62.4i ;02	BufX.1: v22.5o ;01
BufOR: u52.13i ;06	BufX.1: v05.4i ;07
BufOR: u33.2i ;06	BufX.1: v03.5i ;12
BufOR: u95.14o, #TP113.1i ;07	BufX.1: u87.5i ;12
BufORA: u65.7i ;03	BufX.2: v22.7o ;01
BufORA: #TP072.1i, u52.12o, u74.2i ;06	BufX.2: v05.7i ;07
BufORA: u66.4i ;07	BufX.2: v03.4i ;12
	BufX.2: u87.4i ;12
BufORAA: u65.6o, u64.17i ;03	
BufORAA: #TP022.1i ;03	BufX.3: v22.9o ;01
	BufX.3: v05.8i ;07
BufX.0: v22.3o ;01	BufX.3: v03.3i ;12
BufX.0: v05.3i ;07	BufX.3: u87.3i ;12
BufX.0: v03.6i ;12	
BufX.0: u87.6i ;12	
BufX.10: v21.7o ;01	BufX.4: v22.18o ;01
BufX.10: v06.7i ;07	BufX.4: v05.13i ;07
BufX.10: v02.4i ;12	BufX.4: v03.14i ;12
BufX.10: u86.4i ;12	BufX.4: u87.14i ;12
BufX.11: v21.9o ;01	BufX.5: v22.16o ;01
BufX.11: v06.8i ;07	BufX.5: v05.14i ;07
BufX.11: v20.4i ;11	BufX.5: v03.13i ;12
BufX.11: v02.3i ;12	BufX.5: u87.13i ;12
BufX.11: u86.3i ;12	
BufX.12: v21.18o ;01	BufX.6: v22.14o ;01
BufX.12: v26.4i ;02	BufX.6: v05.17i ;07
BufX.12: v25.4i ;02	BufX.6: v03.12i ;12
BufX.12: v06.13i ;07	BufX.6: u87.12i ;12
BufX.12: u98.12i ;11	
	BufX.7: v22.12o ;01
	BufX.7: v05.18i ;07

BufX.7: v03.11i ;12
BufX.7: u87.11i ;12

BufX.8: v21.3o ;01
BufX.8: v06.3i ;07
BufX.8: v02.6i ;12
BufX.8: u86.6i ;12

BufX.9: v21.5o ;01
BufX.9: v06.4i ;07
BufX.9: v02.5i ;12
BufX.9: u86.5i ;12

C1: u31.5o, u42.9i ;08
C1: #TP115.1i ;08

C2: u43.5o, u42.10i ;08
C2: #TP116.1i ;08

C3: u42.12i, u43.6o, u42.13i ;08
C3: #TP117.1i ;08

C4': u42.8o, u31.4i ;08

C5': u23.8o, u31.10i ;08
C5': #TP118.1i ;08

C6': u32.8o, u31.9i ;08
C6': #TP119.1i ;08

CallReq': v14.6o ;16
CallReq': u55.14i ;16

Car': u26.15o ;09
Car': #C32.1i, u28.15o, u24.15i ;10

Car: u26.11o ;09
Car: u28.14o, u27.6i ;10

CarDly: u77.10o, u66.13i ;03

Carrier: u77.12i ;03
Carrier: u82.4i ;03
Carrier: u78.13i ;07
Carrier: #TP128.1i, u27.5o ;10

CComp: u17.15o, #R31.1o ;09
CComp: u26.2i ;09

CD': u99.6o, v17.13i ;15

cf: #R21.2i, #C11.1o, #R16.2i ;09

CL+: #R31.2i, #R33.2i, #C13.1o ;09
CL+: #R26.1o, u18.13i

CL-: #R27.1o, #R23.2i, #C6.1o ;09
CL-: #R17.1o, u18.12i

ClrBuf': u82.8o, #TP070.1i ;06
ClrBuf': u92.18i ;07
ClrBuf': u91.18i ;07
ClrBuf': u93.18i ;07
ClrBuf': u94.18i ;07
ClrBuf': u79.18i ;07

ClrBuffer: v20.11o ;11
ClrBuffer: u73.2i ;12

ClrData': u58.4i, u73.1o ;12
ClrData': #TP142.1i

ClrDeferCnt: u45.12i, u45.2i ;05
ClrDeferCnt: u46.6o, u44.2i

ClrDPRReq': E185, v30.14i ;11

ClrDPRReq0': v18.16o ;11
ClrDPRReq0': u72.13i ;11

ClrRefReq': E186, v30.13i ;11
ClrRefReq': v18.18i ;11

ClrRefReq0': v18.19o ;11
ClrRefReq0': v01.13i ;11

Coll+: u18.15o, u27.1i ;09
Coll+: u25.4i ;09
Coll+: u26.3i ;09

Coll-: #R39.2i, #C25.1i, u18.14o ;09
Coll-: u17.12i

Coll: u16.10i, u27.3o, #TP126.1i ;09

Collision+: #R26.2i, #R21.1o ;09
Collision+: #R12.2i, C69, #C13.2i

Collision-: #R17.2i, #R16.1o ;09
Collision-: #R12.1i, C70, #C6.2i

colt': u68.16o ;04
colt': u68.8i ;04

Command: u06.7i ;13
Command: u96.19o ;14

CommandECL+: #R5.1i, u06.1o, C64 ;13

CommandECL-: #R6.1i, u06.3o, C65 ;13

COS': v16.15i ;16
COS': u02.8o ;17

COS: C243, u02.10i ;17

crc.0': u35.2o ;08
crc.0': u39.4i ;08

XEROX	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS		DWG SIZE A4	DWG NO. 156P12301	SHEET REV. A
	TITLE SCHEMATIC, OPT		SHEET 26	OF	

crc.0': u31.1i ;08
 crc.0x': u39.6o, u35.4i ;08
 crc.1': u35.5o ;08
 crc.1': u39.9i ;08
 crc.1': u31.12i ;08
 crc.10': u34.6o ;08
 crc.10': u15.1i ;08
 crc.10': u43.3i ;08
 crc.10x': u15.3o, u34.8i ;08
 crc.11': u34.9o ;08
 crc.11': u15.4i ;08
 crc.11': u43.2i ;08
 crc.11x': u15.6o, u34.13i ;08
 crc.12': u34.12o ;08
 crc.12': u34.14i ;08
 crc.12': u43.13i ;08
 crc.13': u34.15o ;08
 crc.13': u34.17i ;08
 crc.13': u23.4i ;08
 crc.14': u34.16o ;08
 crc.14': u34.18i ;08
 crc.14': u43.4i ;08
 crc.15': u34.19o ;08
 crc.15': u15.9i ;08
 crc.15': u43.10i ;08
 crc.15x': u15.8o, u22.3i ;08
 crc.16': u22.2o ;08
 crc.16': u22.4i ;08
 crc.16': u23.5i ;08
 crc.17': u22.5o ;08
 crc.17': u22.7i ;08
 crc.17': u23.6i ;08
 crc.18': u22.6o ;08
 crc.18': u22.8i ;08
 crc.18': u43.9i ;08
 crc.19': u22.9o ;08
 crc.19': u22.13i ;08
 crc.19': u23.11i ;08
 crc.1x': u39.8o, u35.7i ;08
 crc.2': u36.6o ;08
 crc.2': u35.8i ;08
 crc.2': u23.1i ;08
 crc.20': u22.12o ;08
 crc.20': u22.14i ;08
 crc.20': u23.12i ;08
 crc.21': u22.15o ;08
 crc.21': u15.12i ;08
 crc.21': u32.1i ;08
 crc.21x': u15.11o, u22.17i ;08
 crc.22': u22.16o ;08
 crc.22': u14.1i ;08
 crc.22': u32.2i ;08
 crc.22x': u14.3o, u22.18i ;08
 crc.23': u22.19o ;08
 crc.23': u21.3i ;08
 crc.23': u32.3i ;08
 crc.24': u21.2o ;08
 crc.24': u21.4i ;08
 crc.24': u43.8i ;08
 crc.25': u21.5o ;08
 crc.25': u14.4i ;08
 crc.25': u43.11i ;08
 crc.25x': u14.6o, u21.7i ;08
 crc.26': u21.6o ;08
 crc.26': u21.8i ;08
 crc.26': u31.8i ;08
 crc.26': #TP164.1i ;08
 crc.27': u21.9o ;08
 crc.27': u21.13i ;08
 crc.27': u32.4i ;08
 crc.28': u21.12o ;08
 crc.28': u21.14i ;08
 crc.28': u32.5i ;08
 crc.29': u21.15o ;08
 crc.29': u21.17i ;08
 crc.29': u32.6i ;08
 crc.3': u35.9o ;08
 crc.3': u39.12i ;08
 crc.3': u31.3i ;08
 crc.30': u21.16o ;08
 crc.30': u21.18i ;08
 crc.30': u31.11i ;08
 crc.30': #TP165.1i ;08
 crc.31': u21.19o, u38.9i ;08
 crc.31': u14.9i, u14.12i ;08

XEROX	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS		DWG SIZE A4	DWG NO. 156P12301	SHEET REV. A
	TITLE SCHEMATIC, OPT		SHEET 27	OF	

crc.31': u37.11i ;08
 crc.31': u37.3i, u37.5i ;08
 crc.31: u32.12i, u32.11i, u38.8o ;08
 crc.32: u38.6o, u35.3i ;08
 crc.32a': #TP122.1i, u14.8o ;08
 crc.32a': u39.5i, u39.10i, u39.13i ;08
 crc.32a': u36.2i, u36.5i, u36.10i
 crc.32a': u38.5i
 crc.32b': #TP123.1i, u14.11o ;08
 crc.32b': u15.2i, u15.5i, u15.10i ;08
 crc.32b': u15.13i, u14.2i, u14.5i
 crc.32b': u36.13i
 crc.3x': u39.11o, u35.13i ;08
 crc.4': u35.12o ;08
 crc.4': u36.1i ;08
 crc.4': u31.2i ;08
 crc.4x': u36.3o, u35.14i ;08
 crc.5': u35.15o ;08
 crc.5': u35.17i ;08
 crc.5': u31.13i ;08
 crc.6': u35.16o ;08
 crc.6': u36.4i ;08
 crc.6': u43.1i ;08
 crc.6x': u36.6o, u35.18i ;08
 crc.7': u35.19o ;08
 crc.7': u36.9i ;08
 crc.7': u23.2i ;08
 crc.7x': u36.8o, u34.3i ;08
 crc.8': u34.2o ;08
 crc.8': u34.4i ;08
 crc.8': u43.12i ;08
 crc.9': u34.5o ;08
 crc.9': u36.12i ;08
 crc.9': u23.3i ;08
 crc.9x': u36.11o, u34.7i ;08
 CReq': u55.12o ;16
 CReq': u13.4i, u13.5i ;17
 CRQ: u13.6o, C234 ;17
 Cx+: #C16.1i, #C8.1i, u07.11i ;10
 Cx-: #C16.2i, #C8.2i, u07.14i ;10

Cycle2': u84.12i ;03
 Cycle2': E3, v27.9i ;06
 DataSetRdy': v16.4i ;16
 DataSetRdy': u01.11o ;17
 DataSetRdy: C206, u01.13i ;17
 DataTermRdy': u71.25o ;15
 DataTermRdy': u55.11i ;16
 DataValid: u42.5i ;03
 DataValid: #TP167.1i, u24.13o ;10
 DC=128: #TP062.1i, u45.8o, u44.1i ;05
 DC=512: #TP063.1i, u44.4o, u95.2i ;05
 DC=8: #TP061.1i, u45.6o, u45.13i ;05
 DCar: #R40.1i, #C28.2i, u25.6o ;09
 DCar: u25.3o, u24.2i ;09
 DCERxC1k': u83.5i ;16
 DCERxC1k': u03.3o ;17
 DCERxC1k: C217, u03.1i ;17
 DCETxC1k': u83.2i ;16
 DCETxC1k': u03.6o ;17
 DCETxC1k: C215, u03.4i ;17
 Defer': v25.6o ;02
 Defer': u62.12i ;02
 Defer': u80.10i ;05
 Defer: v25.7o, #TP012.1i ;02
 Defer: u62.3i ;02
 DeferCar: v28.9i ;05
 DeferCar: #TP166.1i, u24.3o ;09
 DI': u09.15o ;09
 DI': u09.7i ;10
 DI': u08.7i ;10
 DI': u30.1i ;10
 DI: u09.9o ;09
 DI: u08.10i ;10
 DI: u09.10i ;10
 DI: u30.2i ;10
 DiagLineSync: v23.2i ;02
 DiagLineSync: u99.8o ;13
 DiagVideoData: v23.6i ;02
 DiagVideoData: u05.13o ;13

XEROX	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS		DWG SIZE A4	DWG NO. 156P12301	SHEET REV. A
	TITLE SCHEMATIC, OPT		SHEET 28	OF	

DigitPrSnt': v14.9o ;16
DigitPrSnt': u13.9i, u13.10i ;17
DIL': u29.10i, u08.14o, u29.12i ;10
DIL': u30.7i ;10
DIL: u29.7i, u08.15o, u29.5i ;10
DIL: u30.5i ;10
DLionRead: v10.13i, v27.10o ;06
DLionRead: v10.1i
DLionWrite: v27.13o, v11.2i ;06
DLO': v16.8i ;16
DLO': u02.3o ;17
DLO: C242, u02.1i ;17
DmaAckA': u99.3i ;15
DmaAckA': E161, u99.2i ;15
DmaAckA': v00.4i ;15
DmaAckA': v17.1i ;15
DmaAckA: v17.2o, u73.9i ;15
DmaAckB': v00.13i ;15
DmaAckB': u99.5i ;15
DmaAckB': E162, u99.1i ;15
DmaAckB': v17.3i ;15
DmaAckB: v17.4o, u73.12i ;15
DmaReqA': #R57.2i, u71.10o ;15
DmaReqA': u73.8i ;15
DmaReqA: u73.10o, E61 ;15
DmaReqB': #R58.2i, u71.30o ;15
DmaReqB': u73.11i ;15
DmaReqB: u73.13o, E62 ;15
DPR: u13.8o, C232 ;17
dr': u29.11i, u09.3o, u29.6i ;10
dr': u30.6i ;10
dr: u09.14o, u29.13i, u29.4i ;10
dr: u30.4i ;10
DTReady': u55.9o ;16
DTReady': u13.2i ;17
DTReady: u13.3o, C220 ;17
EICT1+': E123, v19.9i ;02

EICT1+': v19.8o, u74.9i ;02
EnableRcv: v26.15o, #TP011.1i ;02
EnableRcv: v23.15i ;02
EnableRcv: u63.1i ;03
EnableTrn: v25.15o, #TP014.1i ;02
EnableTrn: v23.11i ;02
EnableTrn: u51.1i ;04
EndLine': E137, v18.8i ;11
EndPLine': v01.1i, u98.11o ;11
EndPLine': #TP137.1i
EnWake': v20.14o ;11
EnWake': u73.6i ;11
EnWake: v20.15o ;11
EnWake: u85.1i ;11
EnWake: v01.12i ;11
EOct1+': E126, v19.11i ;02
EOct1+': v19.10o, u74.12i ;02
EOData+': E23, v19.13i ;06
EOData+': v19.12o, u74.5i ;06
EPurge': u84.11o, u64.4i ;03
EReq': u52.9o, E86 ;02
ESTrobe': u84.13i ;03
ESTrobe': E35, v27.11i ;06
EvenLen: #TP097.1i ;06
EvenLen: u78.7o, u79.6i ;07
FastRBit': u37.12i, u37.13i ;08
FastRBit': #TP127.1i, u27.13o ;10
FastRBit': u53.15i
ForceReq: v20.7o ;11
ForceReq: u85.13i ;11
FRBit': u53.5o, u46.1i ;10
GdCRC: u78.12i ;07
GdCRC: u31.6o ;08
GND: v27.6i ;01
GND: v22.1i ;01
GND: v21.1i ;01
GND: u53.8i, u53.6i, u53.4i ;01
GND: u53.2i
GND: u95.19i ;01
GND: #R62.2i ;01

XEROX	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS		DWG SIZE A4	DWG NO. 156P12301	SHEET REV. A
	TITLE SCHEMATIC, OPT		SHEET 29	OF OF	

GND: E39 ;02
 GND: u88.19i ;03
 GND: u88.2i ;03
 GND: u64.8i ;03
 GND: u49.15i ;04
 GND: u50.15i ;04
 GND: u67.14i ;04
 GND: u49.14i ;04
 GND: u50.14i ;04
 GND: u41.5i ;05
 GND: u41.3i ;05
 GND: u54.5i ;05
 GND: u54.4i ;05
 GND: u47.3i ;05
 GND: v10.2i, v10.3i ;06
 GND: v08.11i ;07
 GND: u37.1i ;08
 GND: u37.15i ;08
 GND: u28.16o ;09
 GND: u17.5i ;09
 GND: #C36.2i ;09
 GND: #C12.2i ;09
 GND: #C11.2i ;09
 GND: #R14.2i ;09
 GND: #R13.2i ;09
 GND: #R39.1i, #R38.2i ;09
 GND: C89, C83 ;09
 GND: #R40.2i ;09
 GND: u30.16o ;10
 GND: u07.8i ;10
 GND: u09.8i, u17.8i, u25.8i ;10
 GND: u18.8i ;10
 GND: u29.8i, u19.8i, u08.8i ;10
 GND: u28.8i ;10
 GND: #C2.2i ;10
 GND: #C9.2i ;10
 GND: #C24.2i ;10
 GND: #C44.2i ;10
 GND: #C42.1o ;10
 GND: #R48.2i ;10
 GND: u59.3i ;11
 GND: v18.1i ;11
 GND: v30.15i ;11
 GND: u86.10i ;12
 GND: v02.10i ;12
 GND: C87 ;13
 GND: #C4.2i ;13
 GND: #C3.2i ;13
 GND: #C19.2i ;13
 GND: C66, C62, C59, C56, C53 ;13
 GND: u96.17i ;14
 GND: u96.4i ;14
 GND: u71.31i ;15
 GND: u57.2i ;16
 GND: u83.15i ;16
 GND: u55.15i, u55.6i, u55.3i ;16
 GND: u56.15i ;16
 GND: u69.15i ;16
 GND: C207 ;17

GND: C237 ;17
 GND: u11.7i ;17
 GND: u13.7i ;17
 GND: u12.7i ;17
 GND: #C81.2i ;19
 GND: #C82.2i ;19
 GND: #C80.1i ;19
 GND: #C38.1i ;19
 GND: #C1.2i ;19
 GND: #C51.2i ;19

 GoodAlign: #TP087.1i ;06
 GoodAlign: u78.14o, u79.8i ;07

 GoodCRC: #TP162.1i ;06
 GoodCRC: u78.10o, u79.7i ;07

 High: v22.19i ;01
 High: v21.19i ;01
 High: u59.10i, u59.7i, u59.1i ;11
 High: u72.4i ;11
 High: u58.10i ;11
 High: v01.10i ;11
 High: v01.4i, v01.2i ;11
 High: u72.10i, u72.12i ;11
 High: u59.5i, u59.6i, u59.4i ;11
 High: v30.3i ;11
 High: u58.1i ;12
 High: #R63.2i ;13

 HighS: #R11.1o, u06.6i ;13

 IFilt: #C9.1i, u07.13i ;10

 IgnoreOR: u64.3i ;03
 IgnoreOR: v28.6o, #TP161.1i ;03

 InAttn': u61.11i ;02
 InAttn': u66.8o ;03

 InEOP: #TP107.1i ;06
 InEOP: u81.13o, u66.5i ;07

 IOPAddr.14: E77, u97.20i ;14
 IOPAddr.14: u99.4i ;15

 IOPAddr.15: E177, u97.19i ;14
 IOPAddr.15: u96.12i ;14
 IOPAddr.15: v00.5i ;15

 IOPC1k: E12, u96.20i ;14
 IOPC1k: v00.1i, v00.2i ;15

 IOPC1kD: v00.3o, u98.1i, u98.2i ;15

 IOPC1kDD: u98.3o, u70.1i, u70.2i ;15

 IOPData.0: v12.2i ;14
 IOPData.0: E92, v13.2i ;14

XEROX	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE A4	DWG NO. 156P12301	SHEET REV. A
	TITLE SCHEMATIC, OPT		SHEET 30 OF	

IOPData.0: v15.2i ;15
 IOPData.0: v14.3i ;16
 IOPData.0: v16.18o ;16

 IOPData.1: v12.3i ;14
 IOPData.1: E192, v13.3i ;14
 IOPData.1: v15.3i ;15
 IOPData.1: v14.4i ;16
 IOPData.1: v16.16o ;16

 IOPData.2: v12.4i ;14
 IOPData.2: E93, v13.4i ;14
 IOPData.2: v15.4i ;15
 IOPData.2: v14.7i ;16
 IOPData.2: v16.14o ;16

 IOPData.3: v12.5i ;14
 IOPData.3: E193, v13.5i ;14
 IOPData.3: v15.5i ;15
 IOPData.3: v14.8i ;16
 IOPData.3: v16.12o ;16

 IOPData.4: v12.6i ;14
 IOPData.4: E94, v13.6i ;14
 IOPData.4: v15.6i ;15
 IOPData.4: v14.13i ;16
 IOPData.4: v16.3o ;16

 IOPData.5: v12.7i ;14
 IOPData.5: E194, v13.7i ;14
 IOPData.5: v15.7i ;15
 IOPData.5: v14.14i ;16
 IOPData.5: v16.5o ;16

 IOPData.6: v12.8i ;14
 IOPData.6: E95, v13.8i ;14
 IOPData.6: v15.8i ;15
 IOPData.6: v14.17i ;16
 IOPData.6: v16.7o ;16

 IOPData.7: v12.9i ;14
 IOPData.7: E195, v13.9i ;14
 IOPData.7: v15.9i ;15
 IOPData.7: v14.18i ;16
 IOPData.7: v16.9o ;16

 IOPDataOut: v12.1i ;14
 IOPDataOut: E15, v13.1i ;14
 IOPDataOut: v15.1i ;15

 IOPI/ORD': E179, u98.4i ;14
 IOPI/ORD': u96.13i ;14
 IOPI/ORD': v00.9i ;15
 IOPI/ORD': u71.32i ;15
 IOPI/ORD': u84.4i ;16

 IOPI/OWr': E187, u98.9i ;14
 IOPI/OWr': u96.10i ;14
 IOPI/OWr': v00.10i ;15

IOPI/OWr': u84.1i ;16
 IOPIIntReq0: v17.6o, E64 ;15
 IOPIIntReq1: u96.14o, E164 ;14
 IOPIIntReq2: u96.15o, E65 ;14

 IOPReset': v26.1i ;02
 IOPReset': v25.1i, E117 ;02
 IOPReset': v20.1i ;11
 IOPReset': v19.5i ;14
 IOPReset': u71.21i ;15
 IOPReset': v14.1i ;16
 IOPReset': u57.1i ;16

 IOPReset: v19.6o, u96.21i ;14

 IOPSel.0: E66, u96.11i ;14
 IOPSel.0: v12.19i ;14

 IOPSel.1: u98.5i, u98.10i, E166 ;14
 IOPSel.1: u97.21i
 IOPSel.1: v13.19i ;14

 IOPSel.3': E167, u84.2i ;16
 IOPSel.3': u84.5i ;16

 IOPSel2': E163, E67, u99.13i ;15

 IORQ: v00.8o, v17.9i ;15

 IPGD: #TP065.1i, u41.15o, u95.4i ;05

 IPGDone: u68.3i ;04
 IPGDone: #TP033.1i ;04
 IPGDone: u95.18o, #TP066.1i ;05

 IPGDoneT: u68.2o, u67.2i ;04

 IPGL: u41.7i, u54.15o, u41.10i ;05

 LastRWrd': u65.4i ;03
 LastRWrd': u66.6o ;07

 LastRWrdA': u65.6o, u64.16i ;03
 LastRWrdA': #TP021.1i ;03
 LastRWrdA': v10.12i ;06

 LastTWrd: u68.4i ;04
 LastTWrd: #TP082.1i ;06
 LastTWrd: u79.15o ;07

 LastTWrdT: u68.5o, u67.3i ;04
 LastTWrdT: #TP034.1i ;04

 LastWord': v25.11o ;02
 LastWord': u62.11i ;02

XEROX	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS		DWG SIZE	DWG NO. 156P12301	SHEET REV.
	TITLE SCHEMATIC, OPT		A4	SHEET 31 OF	A

LastWord: v23.13i ;02
 LastWord: v25.10o, #TP013.1i ;02
 LastWord: #TP077.1i ;06
 LastWord: u79.4i ;07

 LdEICt1': u74.8o ;02
 LdEICt1': v26.9i ;02

 LdEIData': u74.3o ;06
 LdEIData': u75.5i ;06
 LdEIData': v24.11i ;07
 LdEIData': v07.11i ;07

 LdEIData: u75.6o, v10.5i ;06

 LdEOct1': v25.9i ;02
 LdEOct1': u74.11o ;02
 LdEOct1': u46.5i ;05

 LdEOData': u74.6o ;06
 LdEOData': v05.11i ;07
 LdEOData': v06.11i ;07

 LdRHold.H': u80.12o ;06
 LdRHold.H': u89.11i ;07

 LdRHold.L': u80.6o ;06
 LdRHold.L': u90.11i ;07
 LdRHold.L': u78.9i ;07

 LineActive': v01.6o ;11
 LineActive': u73.3i ;12
 LineActive': u99.9i ;13

 LineActive: v01.5o ;11
 LineActive: u85.9i ;11
 LineActive: u59.9i, u58.13i ;11

 LineSync: u72.1i ;11
 LineSync: v01.3i ;11
 LineSync: u99.11i, u99.10i ;13
 LineSync: u05.5o ;13

 LineSyncECL+: #R3.1i, C57, u05.7i ;13
 LineSyncECL-: #R4.1i, C58, u05.6i ;13

 LoadA: u72.5o, #TP133.1i ;11
 LoadA: u60.13i ;11
 LoadA: v02.15i, v03.15i ;12
 LoadA: u85.4i ;12

 LoadB: u72.6o ;11
 LoadB: u72.2i ;11
 LoadB: u60.5i ;11
 LoadB: u85.3i ;12
 LoadB: u86.15i, u87.15i ;12

 LocalLoop': v26.6o ;02

LocalLoop': v28.10i ;05
 LocalLoop': #R46.2i ;09

 LocalLoop: v23.17i ;02
 LocalLoop: v26.7o, #TP009.1i ;02

 Loop: u26.10o, u26.9o ;09
 Loop: u19.13i, #C15.2i, #R24.1o ;09
 Loop: #R35.1o, #R23.1o, #R33.1o
 Loop: u19.3o, u19.11i

 LoopBack': v26.3o ;02
 LoopBack': u16.5i ;04

 LoopBack: v26.2o, #TP008.1i ;02
 LoopBack: v23.8i ;02
 LoopBack: u67.15i ;04
 LoopBack: u81.8i ;06

 LoopL': #R47.2i, u19.7i, #R46.1o ;09
 LoopL': u19.4i

 LSEP56Enb: v20.2o ;11
 LSEP56Enb: v30.1i ;11

 LSEPByte.0: u96.8o ;14
 LSEPByte.0: v12.18o ;14

 LSEPByte.1: u96.7o ;14
 LSEPByte.1: v12.17o ;14

 LSEPByte.2: u96.6o ;14
 LSEPByte.2: v12.16o ;14

 LSEPByte.3: u96.5o ;14
 LSEPByte.3: v12.15o ;14

 LSEPByte.4: u96.2o ;14
 LSEPByte.4: v12.14o ;14

 LSEPByte.5: u96.1o ;14
 LSEPByte.5: v12.13o ;14

 LSEPByte.6: u96.28o ;14
 LSEPByte.6: v12.12o ;14

 LSEPByte.7: u96.27o ;14
 LSEPByte.7: v12.11o ;14

 LSEPct1C1k: u96.25i, u96.9i ;14
 LSEPct1C1k: u97.10o ;14

 LSTm: #R3.2i, #C3.1o, #R4.2i ;13

 Mux: u19.2o, u09.12i, u19.14o ;09
 Mux: u26.13o ;09

 NB1': u12.11o, C244 ;17

XEROX	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS		DWG SIZE A4	DWG NO. 156P12301	SHEET REV. A
	TITLE SCHEMATIC, OPT			SHEET 32 OF	

NB1: v14.19o ;16
 NB1: u12.12i, u12.13i ;17

 NB2': u12.8o, C245 ;17

 NB2: v14.16o ;16
 NB2: u12.9i, u12.10i ;17

 NB4': u12.6o, C246 ;17

 NB4: v14.15o ;16
 NB4: u12.4i, u12.5i ;17

 NB8': u12.3o, C247 ;17

 NB8: v14.12o ;16
 NB8: u12.2i ;17

 NeedRefresh': v01.8o ;11
 NeedRefresh': v30.5i ;11

 NeedWord: #TP134.1i, u73.4o ;11
 NeedWord: u85.10i ;11

 NetQuiet: v28.8o, u80.11i ;05

 o: u28.4i, #CR1.1o, #C10.1o ;10
 o: u29.3o, u29.15o, #R25.2i
 o: u30.10o, u30.9o ;10

 outa: u50.12o, u51.8i ;04
 outa: #TP055.1i ;04

 OutAttn': u46.12o, u61.10i ;02

 OutAttn: u46.13i ;02
 OutAttn: u51.9o, #TP047.1i ;04

 ova': u65.19o ;03
 ova': u65.13i ;03

 OverRun': u16.11o, u20.5i ;06

 OverRunAA': u65.12o, u64.2i ;03
 OverRunAA': #TP024.1i ;03

 p: u28.5i, u29.14o, u29.2o ;10
 p: #R32.2i
 p: #R48.1i ;10

 PAD.VDD: #C17.1i ;20

 PAD.VEE: #C20.1i ;20

 PAD.ZGND: #C65.2o, #C64.2o ;20
 PAD.ZGND: #C63.2o, #C62.2o
 PAD.ZGND: #C61.2o, #C60.2o
 PAD.ZGND: #C59.2o, #C58.2o
 PAD.ZGND: #C57.2o, #C56.2o

PAD.ZGND: #C55.2o, #C54.2o
 PAD.ZGND: #C53.2o, #C52.2o
 PAD.ZGND: #C50.2o, #C49.2o
 PAD.ZGND: #C48.2o, #C47.2o
 PAD.ZGND: #C46.2o, #C45.2o
 PAD.ZGND: #C43.2o, #C41.2o
 PAD.ZGND: #C40.2o, #C39.2o
 PAD.ZGND: #C35.2o, #C34.2o
 PAD.ZGND: #C33.2o, #C31.2o
 PAD.ZGND: #C27.2o, #C22.2o
 PAD.ZGND: #C21.2o, #C18.2o, #C5.2o
 PAD.ZGND: #C20.2o, #C17.2o
 PAD.ZGND: #C79.2o, #C78.2o
 PAD.ZGND: #C77.2o, #C76.2o
 PAD.ZGND: #C75.2o, #C74.2o
 PAD.ZGND: #C73.2o, #C72.2o
 PAD.ZGND: #C71.2o, #C70.2o
 PAD.ZGND: #C69.2o, #C68.2o
 PAD.ZGND: #C67.2o, #C66.2o

 PAD.ZP5V: #C52.1i, #C53.1i ;20
 PAD.ZP5V: #C54.1i, #C55.1i
 PAD.ZP5V: #C56.1i, #C57.1i
 PAD.ZP5V: #C58.1i, #C59.1i
 PAD.ZP5V: #C60.1i, #C61.1i
 PAD.ZP5V: #C62.1i, #C63.1i
 PAD.ZP5V: #C64.1i, #C65.1i
 PAD.ZP5V: #C31.1i, #C33.1i
 PAD.ZP5V: #C34.1i, #C35.1i
 PAD.ZP5V: #C39.1i, #C40.1i
 PAD.ZP5V: #C41.1i, #C43.1i
 PAD.ZP5V: #C45.1i, #C46.1i
 PAD.ZP5V: #C47.1i, #C48.1i
 PAD.ZP5V: #C49.1i, #C50.1i
 PAD.ZP5V: #C66.1i, #C67.1i
 PAD.ZP5V: #C68.1i, #C69.1i
 PAD.ZP5V: #C70.1i, #C71.1i
 PAD.ZP5V: #C72.1i, #C73.1i
 PAD.ZP5V: #C74.1i, #C75.1i
 PAD.ZP5V: #C76.1i, #C77.1i
 PAD.ZP5V: #C78.1i, #C79.1i
 PAD.ZP5V: #C5.1i, #C18.1i, #C21.1i ;20
 PAD.ZP5V: #C22.1i, #C27.1i

 pAlwaysClk: v27.4o, u76.13i ;01
 pAlwaysClk: u74.1i ;06
 pAlwaysClk: u74.4i ;06
 pAlwaysClk: v10.11i ;06
 pAlwaysClk: v11.3i ;06

 pBIPG: u80.8o, u20.15i ;05

 Pct1←': E128, v19.3i ;11

 Pct1←: u60.9i, v19.4o, u60.11i ;11

 pd': u42.6o, u77.13i ;03

 PDT-32: u53.12o, #TP004.1i ;01

XEROX	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS		DWG SIZE A4	DWG NO: 156P12301	SHEET REV. A
	TITLE SCHEMATIC, OPT		SHEET 33	OF	

PDT-32: u27.12i ;10
 PDT-32: u24.12i ;10

 PDT-B: u53.14o, #TP003.1i ;01
 PDT-B: u94.9i ;07
 PDT-B: u93.9i ;07
 PDT-B: u91.9i ;07
 PDT-B: u92.9i ;07
 PDT-B: u79.9i ;07

 PDT-P: u53.16o, #TP002.1i ;01
 PDT-P: u64.10i ;03
 PDT-P: u67.13i ;04
 PDT-P: u49.13i ;04
 PDT-P: u50.13i ;04

 PDT-R: u53.18o, #TP001.1i ;01
 PDT-R: u88.3i ;03
 PDT-R: u65.1i ;03
 PDT-R: u68.1i ;04
 PDT-R: u48.1i ;18
 PDT-R: u52.1i ;18

 pE': u52.6o, u52.8i ;02

 PhE: u39.3o, u16.2i ;09

 PhG': u16.3o, u40.2i ;09

 pia: u65.8i ;03
 pia: u65.15o ;03

 pInEOP': #TP112.1i ;06
 pInEOP': u79.14o, u81.12i ;07

 PktIn': u82.6o, u77.4i ;03

 PktInMode': u77.2o ;03
 PktInMode': u42.1i ;03

 PktInMode: u82.2i ;03
 PktInMode: #TP019.1i, u77.3o ;03
 PktInMode: u76.1i ;03
 PktInMode: u65.14i ;03

 PktInModeAA: u65.9o, u64.1i ;03
 PktInModeAA: #TP023.1i ;03

 pktom: u50.10o, u51.4i ;04
 pktom: #TP053.1i ;04

 PktOutMnLp': u16.6o ;04
 PktOutMnLp': u75.3i ;04
 PktOutMnLp': u37.2i ;08
 PktOutMnLp': v11.1i ;08

 PktOutMnLp: u65.17i ;03
 PktOutMnLp: u75.4o ;04
 PktOutMnLp: u33.11i, v11.10i ;08

PktOutMnLpAA: u65.2o, u64.15i ;03
 PktOutMnLpAA: #TP020.1i ;03

 PktOutMode: u67.1i ;04
 PktOutMode: u16.4i, u51.2o ;04
 PktOutMode: #TP044.1i
 PktOutMode: u47.9i ;05

 PND': v16.17i ;16
 PND': u02.6o ;17

 PND: C235, u02.4i ;17

 poa: u65.3i ;03
 poa: u65.16o ;03

 POData+: E28, v19.1i ;11

 POData+: u60.4i, v19.2o, u60.2i ;11

 ppCLK: v27.5i, E9, v27.3i ;01

 ppE': #TP015.1i, u62.8o, u52.7i ;02

 ppStIPG: u20.13o, u48.13i ;05

 pRC16: u81.1o, u77.5i ;03

 pRClock: v11.5i ;06
 pRClock: u80.5i ;06
 pRClock: u80.13i ;06
 pRClock: v11.13i ;08
 pRClock: #TP129.1i, u38.13i ;10
 pRClock: u27.11o, u38.11i

 PrCTS': u71.23i ;15
 PrCTS': u56.9o, #TP150.1i ;16

 PrDCD': u71.19i ;15
 PrDCD': u55.4o, #TP155.1i ;16

 PreamCar': u66.2i, u66.11o ;03
 PreamCar': u81.6i ;06

 PreamCar: u66.12i, u66.3o ;03
 PreamCar: u82.5i ;03
 PreamCar: u79.5i ;07
 PreamCar: u33.12i ;08

 PreamDet': u66.1i, u77.15o ;03
 PreamDet': #TP017.1i
 PreamDet': u20.6i ;06
 PreamDet': u78.1i ;07

 PrimCTS': u56.11i ;16
 PrimCTS': u04.6o ;17

 PrimCTS: C205, u04.4i ;17

XEROX	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS		DWG SIZE A4	DWG NO. 156P12301	SHEET REV. A
	TITLE SCHEMATIC, OPT			SHEET 34 OF	

PrimLineDet': u56.2i ;16
 PrimLineDet': u04.8o ;17
 PrimLineDet: C208, u04.10i ;17
 PrimRData': C203, u04.1i ;17
 PrimRData: u56.5i ;16
 PrimRData: u04.3o ;17
 PrimRTS': u56.12o ;16
 PrimRTS': u11.4i, u11.5i ;17
 PrimRTS: u11.6o, C204 ;17
 PrimTData': u11.3o, C202 ;17
 PrimTData: u56.4o ;16
 PrimTData: u11.2i ;17
 PrinterReq': v18.5o, E135 ;11
 PrinterReq0': u85.8o, #TP138.1i ;11
 PrinterReq0': v18.3i
 PrinterReq1': v18.2o ;11
 PrinterReq1': v30.6i ;11
 PrinterReq1': v30.2i ;11
 PrRTS': u71.24o ;15
 PrRTS': u56.10i, u56.14i ;16
 PrRXD: u71.12i ;15
 PrRXD: u56.7o, #TP149.1i ;16
 PrTXD: u71.26o ;15
 PrTXD: u56.6i, u56.2i ;16
 pStIPG: u48.12o, u48.14i ;05
 pTClock': u40.8o ;09
 pTClock': u40.12i ;09
 pTClock: v10.10i ;06
 pTClock: v11.9i ;08
 pTClock: u40.9o, u38.1i ;09
 pTClock: u39.2i ;09
 PU-a: #R60.1o, #TP006.1i ;01
 PU-a: u76.9i, u76.10i, u76.7i ;03
 PU-a: u77.1i ;18
 PU-b: #R53.1o, #TP007.1i ;01
 PU-b: u41.6i ;05
 PU-b: u41.4i ;05
 PU-b: u41.1i ;05
 PU-b: u54.10i, u54.1i, u54.7i ;05
 PU-b: u54.6i ;05

PU-b: u54.3i ;05
 PU-b: u47.10i, u47.7i, u47.4i ;05
 PU-b: u47.5i, u47.6i, u47.1i
 PU-b: u40.13i ;09
 PU-b: u27.4i ;10
 PU-b: u24.4i ;10
 PU-c: #R59.1o ;01
 PU-c: u88.1i, u88.9i ;03
 PU-c: v09.2i, v09.9i, v09.1i ;07
 PU-c: v09.3i
 PU-c: v08.2i, v08.9i, v08.1i ;07
 PU-c: v08.3i
 PU-d: #R52.1o ;01
 PU-d: u40.4i ;09
 PU-d: u40.10i ;09
 PU-d: u40.1i ;09
 PU-r: u97.14i, u97.11i, u97.16i ;14
 PU-r: u71.6i, #R56.2i, u71.8i ;16
 PU-r: u56.3i, u56.13i ;16
 PU-r: u55.10i, u55.13i ;16
 PU-r: u69.3i, u69.13i ;16
 pur: u64.11o, u63.4i ;03
 pur: #TP025.1i ;03
 Purge': u62.5i ;02
 Purge': u63.3o ;03
 Purge: u63.2o, #TP029.1i ;03
 Purge: v10.6i, v10.4i ;06
 PUT-a: #R61.1o ;01
 PUT-a: u76.4i, u76.5i, u76.6i ;03
 PUT-a: u76.3i
 pWaitClk: v27.1o ;01
 pWaitClk: u74.10i ;02
 pWaitClk: u74.13i ;02
 pWaitClk: u60.3i, u60.10i, u60.1i ;11
 PWI': v16.11i ;16
 PWI': u03.8o ;17
 PWI: C236, u03.10i ;17
 R.0: #TP016.1i, u88.7o, u42.2i ;03
 R.0: u89.3i ;07
 R.0: u90.3i ;07
 R.1: u88.13o ;03
 R.1: u89.4i ;07
 R.1: u90.4i ;07
 R.2: u88.6o ;03
 R.2: u89.7i ;07
 R.2: u90.7i ;07

XEROX	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS		DWG SIZE A4	DWG NO. 156P12301	SHEET REV. A
	TITLE SCHEMATIC, OPT			SHEET 35 OF	

R.3: u88.14o ;03	RB.2: v29.3i ;17
R.3: u89.8i ;07	RB.3: u04.12i ;17
R.3: u90.8i ;07	RB.3: v29.4i ;17
R.4: u88.5o ;03	RB.4: u01.2i ;17
R.4: u89.13i ;07	RB.4: v29.5i ;17
R.4: u90.13i ;07	RB.5: u01.5i ;17
R.5: u88.15o ;03	RB.5: v29.6i ;17
R.5: u89.14i ;07	RB.6: u01.9i ;17
R.5: u90.14i ;07	RB.6: v29.7i ;17
R.6: u88.4o ;03	RB.7: u01.12i ;17
R.6: u89.17i ;07	RB.7: v29.8i ;17
R.6: u90.17i ;07	RB.8: u03.2i ;17
R.7: u88.16o ;03	RB.8: v29.15o ;17
R.7: u89.18i ;07	RB.9: u03.5i ;17
R.7: u90.18i ;07	RB.9: v29.14o ;17
R.EvenLen: v04.13i ;02	RBIt: u88.11i ;03
R.EvenLen: #TP102.1i ;06	RBIt: u42.4i ;03
R.EvenLen: u79.13o ;07	RBIt: u46.2o ;10
R.GoodAlign: v04.8i ;02	RC.0': u75.2o ;03
R.GoodAlign: #TP092.1i ;06	RC.0': u80.2i ;06
R.GoodAlign: u79.11o ;07	RC.0: u76.11o, u75.1i ;03
R.GoodCRC: v04.15i ;02	RC.0: u78.5i ;07
R.GoodCRC: #TP163.1i ;06	RC.1: u76.12o, u61.4i ;03
R.GoodCRC: u79.12o ;07	RC.1: u80.4i ;06
R.OverRun': v04.17i ;02	RC.1: u80.1i ;06
R.OverRun': u65.18i ;03	RC.2: u76.13o, u61.3i ;03
R.OverRun': u20.7o ;06	RC.3: u76.14o, u61.5i ;03
RB.0: u04.2i ;17	RC=7: u81.4o, u80.3i ;06
RB.0: v29.1i ;17	rcc: u33.13o, u33.9i ;08
RB.10: u02.2i ;17	RC1k': u30.3i ;10
RB.10: v29.13o ;17	RC1k': u07.6o, u27.10i ;10
RB.11: u02.5i ;17	RC1k': u08.11i ;10
RB.11: v29.12o ;17	RC1k: u07.4o, u27.9i ;10
RB.12: u02.9i ;17	RC1k: u30.8i ;10
RB.12: v29.11o ;17	RC1k: u09.6i, u09.11i, u08.6i ;10
RB.13: u02.12i ;17	RC1kSh': #R50.2i, #R51.1o, u28.11i ;10
RB.13: v29.10o ;17	RClock: u88.12i ;03
RB.14: u03.9i ;17	RClock: u76.2i ;03
RB.14: v29.9o ;17	RClock: u38.10o ;10
RB.1: u04.5i ;17	RClock: u77.9i ;18
RB.1: v29.2i ;17	
RB.2: u04.9i ;17	

XEROX	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS		DWG SIZE A4	DWG NO. 156P12301	SHEET REV. A
	TITLE SCHEMATIC, OPT			SHEET 36 OF	

RComp: u17.7o, #R34.1o ;09
 RComp: u26.1i ;09

 Rcv+: u18.7o, u25.10i ;09
 Rcv+: u26.6i ;09

 Rcv-: #R38.1i, #C23.2i, u18.6o ;09
 Rcv-: u17.9i

 RcvCnt=15': u81.3i, u75.8o, u82.3i ;03

 RcvCnt=15: #TP018.1i, u76.15o ;03
 RcvCnt=15: u75.9i

 RcvCnt=16: u77.7o ;03
 RcvCnt=16: v11.4i ;06
 RcvCnt=16: u18.13i ;06

 RcvCnt=7': u61.6o ;03
 RcvCnt=7': u81.5i ;06

 RcvE: u25.7o, u19.10i ;09
 RcvE: u26.4i ;09

 RcvMode': v04.2i ;02
 RcvMode': u63.6o ;03
 RcvMode': u81.2i ;03
 RcvMode': u82.9i ;06
 RcvMode': u81.9i, u52.17i ;06
 RcvMode': u89.1i ;07
 RcvMode': u90.1i ;07

 RcvMode: u62.6i ;02
 RcvMode: u63.7o, #TP030.1i ;03
 RcvMode: u64.7i ;03
 RcvMode: u68.14i ;04
 RcvMode: v27.12i ;06
 RcvMode: v05.1i ;07
 RcvMode: v06.1i ;07

 RcvModeDly': #TP071.1i, u52.16o ;06
 RcvModeDly': u82.13i
 RcvModeDly': u81.11i ;07

 RcvModenLp: u81.10o, u82.1i ;06

 RcvModeTT: u68.6o, u67.4i ;04
 RcvModeTT: #TP035.1i ;04

 rcvmt: u68.15o ;04
 rcvmt: u68.7i ;04

 RcvState.1: u64.6i ;03
 RcvState.1: u63.10o, #TP031.1i ;03

 RcvState.2: u64.5i ;03
 RcvState.2: u63.15o, #TP032.1i ;03

RdBuf': u95.17i ;03
 RdBuf': v10.8o, #TP068.1i ;06
 RdBuf': u92.16i ;07
 RdBuf': u91.16i ;07
 RdBuf': u93.16i ;07
 RdBuf': u94.16i ;07
 RdBuf': u79.16i ;07

 RdBufA': u52.2o, v28.4i, #TP159.1i ;03
 RdBufA': u52.4i ;03

 RdBufAA': u52.5o, #TP160.1i ;03
 RdBufAA': v28.5i

 RdBufD': #TP158.1i, u95.3o, u52.3i ;03

 Receive+: #R28.2i, #R22.1o ;09
 Receive+: #R18.2i, C74, #C14.2i

 Receive-: #R19.2i, #R20.1o ;09
 Receive-: #R18.1i, C73, #C7.2i

 RefReq': v18.6o, E88 ;11

 RefTime: v18.9o ;11
 RefTime: v01.11i ;11

 rf: #R22.2i, #C12.1o, #R20.2i ;09

 Ring': v16.6i ;16
 Ring': u57.6o ;16

 RingInd': u57.4i ;16
 RingInd': u01.8o ;17

 RingInd: C222, u01.10i ;17

 RL+: #C14.1o, #R34.2i, #R35.2i ;09
 RL+: #R28.1o, u18.10i

 RL-: #R29.1o, #R24.2i, #C7.1o ;09
 RL-: #R19.1o, u18.9i

 rs.0: u64.12o, u63.5i ;03
 rs.0: #TP026.1i ;03

 rs.1: u66.9i, u64.13o, u63.12i ;03
 rs.1: #TP027.1i ;03

 rs.2: u66.10i, u64.14o, u63.13i ;03
 rs.2: #TP028.1i ;03

 RS: u26.8i ;09
 RS: u28.2o, u28.10i ;10

 RSh': u38.12o, #R51.2i ;10

 RSRegRd': v16.19i, v16.1i, u84.6o ;16
 RSRegRd': #TP148.1i

XEROX	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS		DWG SIZE A4	DWG NO. 156P12301	SHEET REV. A
	TITLE SCHEMATIC, OPT		SHEET 37 OF		

RSRegRd': u57.3i ;16
 RSRegWr': u84.3o, v14.11i ;16
 SColl': u16.8o, u20.10i ;09
 SecCTS': u71.18i ;15
 SecCTS': u69.9o, #TP152.1i ;16
 SecDCD': u71.22i ;15
 SecDCD': u55.7o, #TP156.1i ;16
 SecndCTS': v31.5i ;16
 SecndCTS': u01.3o ;17
 SecndCTS: C213, u01.1i ;17
 SecndLineDet': v31.10i ;16
 SecndLineDet': u01.6o ;17
 SecndLineDet: C212, u01.4i ;17
 SecndRData': C216, u04.13i ;17
 SecndRData: u69.5i ;16
 SecndRData: u04.11o ;17
 SecndRTS': u69.12o ;16
 SecndRTS': u11.12i, u11.13i ;17
 SecndRTS: u11.11o, C219 ;17
 SecndTData': u11.8o, C214 ;17
 SecndTData: u69.4o ;16
 SecndTData: u11.9i, u11.10i ;17
 SecRTS': u71.17o ;15
 SecRTS': u69.10i, u69.14i ;16
 SecRXD: u71.29i ;15
 SecRXD: u69.7o, #TP151.1i ;16
 SecTXD: u71.15o ;15
 SecTXD: u69.6i, u69.2i ;16
 SelClrPReq': v30.12o, v18.17i ;11
 SelLocalTim: v14.5o ;16
 SelLocalTim: #TP157.1i, u83.1i ;16
 SelLocalTim: v31.2i ;16
 SelPrtReq': v30.4o, v18.4i ;11
 SelRefReq': v30.7o, v18.7i ;11
 SendCTS': v31.6o, u69.11i ;16
 SendDly: u48.19o, u16.1i ;09

SendDly: u16.9i ;09
 SendLineDet': v31.8o, u55.5i ;16
 SendMode: u51.6o, #TP046.1i ;04
 SendMode: u48.18i ;09
 SerDI': u26.14o ;09
 SerDI': u08.2o, u27.14i ;10
 SerDI: u26.12o ;09
 SerDI: u08.3o, u27.15i ;10
 SerialTData: u37.7o, #TP121.1i ;08
 SerialTData: u48.17i ;09
 SerialTDataDly: u48.16o, u39.1i ;09
 SetCRC': u33.10o, #TP120.1i ;08
 SetCRC': u21.1i
 SetCRC': u35.1i ;08
 SetCRC': u34.1i ;08
 SetCRC': u22.1i ;08
 ShiftOut': #TP141.1i, u85.6o ;12
 ShiftOut': u58.2i ;12
 SIOBA: v00.11o, #TP146.1i ;15
 SIOBA: u71.34i ;15
 SIOCD: v17.12o, #TP147.1i ;15
 SIOCD: u71.33i ;15
 SIOCE': v17.10o, #TP145.1i ;15
 SIOCE': u71.35i ;15
 SIOCE': v15.19i ;15
 SIOCE: u99.12o, v17.11i ;15
 SIOClk: #R55.2i, u70.3o, #TP144.1i ;15
 SIOClk: u71.20i ;15
 SIOData.0: v15.18o, u71.4i ;15
 SIOData.1: v15.17o, u71.37i ;15
 SIOData.2: v15.16o, u71.3i ;15
 SIOData.3: v15.15o, u71.38i ;15
 SIOData.4: v15.14o, u71.2i ;15
 SIOData.5: v15.13o, u71.39i ;15
 SIOData.6: v15.12o, u71.1i ;15
 SIOData.7: v15.11o, u71.40i ;15
 SIOInt': v17.5i ;15

XEROX	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS		DWG SIZE A4	DWG NO. 156P12301	SHEET REV. A
	TITLE SCHEMATIC, OPT		SHEET 38	OF	

SIOInt': #R54.2i, u71.5o ;15
SIOIORQ': v17.8o, #TP143.1i ;15
SIOIORQ': u71.36i ;15
SIOLoopEn: u55.1i, u56.1i, v31.3o ;16
SIOLoopEn: u69.1i
SIOlpEn: v14.2o ;16
SIOlpEn: v31.4i, v31.9i, v31.1i ;16
SIOOsc: u97.13o ;14
SIOOsc: u83.6i, u83.3i ;16
SIORxC1k': u71.28i, u71.13i ;15
SIORxC1k': u83.7o, #TP154.1i ;16
SIOTxC1k': u97.18i ;14
SIOTxC1k': u71.27i, u71.14i ;15
SIOTxC1k': u83.4o, #TP153.1i ;16
sndm: u50.11o, u51.7i ;04
sndm: #TP054.1i ;04
StartIPG: #TP067.1i, u41.9i ;05
StartIPG: u54.9i, u48.15o
Status: u05.12o ;13
Status: u96.3i ;14
StatusECL+: #R9.1i, C60, u05.11i ;13
StatusECL-: #R10.1i, C61, u05.10i ;13
StTm: #R9.2i, #C19.1o, #R10.2i ;13
Swap: u72.11i, u58.9o, u72.3i ;11
T.Collision': v04.4i ;02
T.Collision': u68.17i ;04
T.Collision': u20.9o ;09
T.CollisionTT': u68.9o, u67.7i ;04
T.CollisionTT': #TP036.1i ;04
T.UnderRun': v04.6i ;02
T.UnderRun': u48.6o, #TP043.1i ;04
T.UnderRun': u67.5i ;04
T1: #R32.1o, #TP130.1i ;10
T2: #R25.1o, #TP131.1i ;10
TBit': u38.4o, u37.10i ;08
TBit: v09.17o ;07
TBit: u38.3i ;08
TBit: u37.4i, u37.6i ;08
TBite: v08.17o ;07
TBite: v09.11i ;07
TClock: u68.11i ;04
TClock: u51.11i ;04
TClock: u54.2i, u41.2i ;05
TClock: u47.2i ;05
TClock: u45.1i ;05
TClock: v09.12i ;07
TClock: v08.12i ;07
TClock: u38.2o ;09
TClock: u48.11i ;18
TDb1C: #Y1.8o, u53.17i ;09
TDb1Clock: u40.3i, #TP125.1i ;09
TDb1Clock: u53.3o, u40.11i
Tester: u95.1i, u53.19i, #R62.1i ;01
Tester: u53.1i, #TP005.1i
TickElapsed: u62.2i ;02
TickElapsed: u95.18o, #TP064.1i ;05
TimerOUT: u97.17o ;14
TimerOUT: v16.2i ;16
TimerRd': u98.6o, u97.22i ;14
TimerWr': u98.8o, u97.23i ;14
TranPwr: C84, C90 ;09
TranPwr: #F1.2o, #C1.1i ;19
Transmit+: #R14.1i, u19.9o, C72 ;09
Transmit-: #R13.1i, u19.15o, C71 ;09
TRC1k': v11.8o, u21.11i ;08
TRC1k': u35.11i ;08
TRC1k': u34.11i ;08
TRC1k': u22.11i ;08
TRGated: u14.13i, u37.9o, u14.10i ;08
Trn': u40.6o ;09
Trn': #R41.2i ;09
Trn: u40.5o, #TP124.1i ;09
Trn: #R44.2i ;09
TrnCt=15': u46.8o, u33.3i ;06
TrnCt=15: u49.5i ;04
TrnCt=15: u50.5i ;04
TrnCt=15: #TP060.1i, u47.15o ;05
TrnCt=15: u48.8i
TrnCt=15: u46.9i ;06
TrnCt=15: v08.19i ;07

XEROX	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS		DWG SIZE A4	DWG NO. 156P12301	SHEET REV. A
	TITLE SCHEMATIC, OPT			SHEET 39 OF	

TrnCnt=15: v09.19i ;07
 TrnCnt=16: u48.9o ;05
 TrnCnt=16: v10.9i ;06
 TrnE: u19.12i, u18.3o, u19.5i ;09
 TrnE: u26.5i ;09
 TrnL': #R42.2i, #R41.1o, u18.4i ;09
 TrnL: #R45.2i, #R44.1o, u18.5i ;09
 trnm: u50.9o, u51.3i ;04
 trnm: #TP052.1i ;04
 TrnMode': u46.10o, u82.10i ;06
 TrnMode: u62.1i ;02
 TrnMode: u51.5o, #TP045.1i ;04
 TrnMode: u20.14i ;05
 TrnMode: u46.11i ;06
 TrnMode: u20.12i, u20.11i ;09
 TrnState.0: u49.3i ;04
 TrnState.0: u50.3i ;04
 TrnState.0: u51.12o, #TP048.1i ;04
 TrnState.0: u33.8i ;08
 TrnState.1: u49.4i ;04
 TrnState.1: u50.4i ;04
 TrnState.1: u51.15o, #TP049.1i ;04
 TrnState.2: u49.7i ;04
 TrnState.2: u50.7i ;04
 TrnState.2: u51.16o, #TP050.1i ;04
 TrnState.2: u37.14i ;08
 TrnState.3: u49.6i ;04
 TrnState.3: u50.6i ;04
 TrnState.3: u51.19o, #TP051.1i ;04
 ts.0: u49.9o, u51.13i ;04
 ts.0: #TP056.1i ;04
 ts.1: u49.10o, u51.14i ;04
 ts.1: #TP057.1i ;04
 ts.2: u49.11o, u51.17i ;04
 ts.2: #TP058.1i ;04
 ts.3: u49.12o, u51.18i ;04
 ts.3: #TP059.1i ;04
 tund: u67.11o, u48.7i ;04
 tund: #TP040.1i ;04
 TurnOff': v26.11o, #TP010.1i ;02
 TurnOff': v04.11i ;02
 TurnOff': u61.9i ;02

UnderRun: u68.13i ;04
 UnderRun: u33.1o ;06
 UnderRunT: u68.12o, u67.6i ;04
 UnderRunT: #TP037.1i ;04
 VBBb: u18.11i, #R37.1i ;09
 VBBb: u25.9i ;09
 VBBb: u27.2i ;09
 VBBb: u25.5i ;09
 VBBc: u17.11i, u17.4i ;09
 VBBd: u25.11i, u24.1i ;09
 VBBd: u27.7i, u24.14i ;10
 VBBd: u25.12i ;18
 VBRef: u17.10i, #R36.2i, #R37.2i ;09
 VBRef: u17.13i
 VCC: #R53.2i, #R59.2i, #R52.2i ;01
 VCC: #R61.2i, #R60.2i
 VCC: #R45.1i, #R42.1i, #C36.1o ;09
 VCC: #R47.1i
 VCC: #R36.1o ;09
 VCC: #C25.2i, #C23.1i ;09
 VCC: #C15.1i ;09
 VCC: #C28.1i ;09
 VCC: u29.16i, u29.1i, u19.16i ;10
 VCC: u19.1i, u08.16i, u08.1i
 VCC: u28.16i, u28.1i
 VCC: u09.16i, u09.1i, u17.16i ;10
 VCC: u17.1i, u25.16i, u25.1i
 VCC: u18.16i, u18.1i
 VCC: #R50.1o, #C42.2i ;10
 VCC: #C32.2i ;10
 VCC: u07.5i, #C44.1i, #C24.1i ;10
 VCC: u07.1i
 VCC: u06.9i ;13
 VCC: u05.9i ;13
 VCC: #R63.1o ;13
 VCC: #R11.2i ;13
 VCC: u96.26i ;14
 VCC: u71.9i ;15
 VCC: #R55.1i ;15
 VCC: #R58.1i, #R57.1i, #R54.1i ;15
 VCC: #R56.1i ;15
 VCC: #C81.1i, #F4.2o, #C51.1i ;19
 VCTm: #R1.2i, #C4.1o, #R2.2i ;13
 VCx: u07.2i, #R15.1i, #CR1.2i ;10
 VCx: #C10.2i
 VDD: #R16.2o ;10
 VDD: u12.14i ;17
 VDD: u11.14i ;17
 VDD: u13.14i ;17

XEROX	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS		DWG SIZE A4	DWG NO. 156P12301	SHEET REV. A
	TITLE	SCHEMATIC, OPT	SHEET	40 OF	

VDD: #C82.1i, #F2.2o, #F1.1i ;19	X.0: v23.18o ;02
	X.0: v24.2o ;07
VEE: #R5.2i, #R6.2i ;13	X.10: E46, v21.13i ;01
VEE: #R7.2i, #R8.2i ;13	X.10: v04.14o ;02
VEE: v29.16i ;17	X.10: v07.6o ;07
VEE: #F3.2o, #C80.2i ;19	
VFF: u12.1o ;17	X.11: E146, v21.11i ;01
VFF: u13.1o ;17	X.11: v04.12o ;02
VFF: u11.1o ;17	X.11: v07.9o ;07
VFF: #F5.2o, #C38.2i ;19	
VideoClock: v23.4i ;02	X.12: E47, v21.2i ;01
VideoClock: u59.2i ;11	X.12: v04.3o ;02
VideoClock: u58.11i ;11	X.12: v07.12o ;07
VideoClock: v02.2i, v03.2i ;12	X.13: E147, v21.4i ;01
VideoClock: u86.2i, u87.2i ;12	X.13: v04.5o ;02
VideoClock: u58.3i ;12	X.13: v07.15o ;07
VideoClock: u05.4o ;13	
VideoClockECL+: #R1.1i, C51 ;13	X.14: E48, v21.6i ;01
VideoClockECL+: u05.3i	X.14: v04.7o ;02
	X.14: v07.16o ;07
VideoClockECL-: #R2.1i, C52 ;13	X.15: E148, v21.8i ;01
VideoClockECL-: u05.2i	X.15: v04.9o ;02
	X.15: v07.19o ;07
VideoData: u58.6o ;12	
VideoData: u06.5i ;13	X.1: E141, v22.15i ;01
VideoDataECL+: u05.15i, #R7.1i ;13	X.1: v23.16o ;02
VideoDataECL+: u06.2o, C54	X.1: v24.5o ;07
VideoDataECL-: u05.14i, #R8.1i ;13	X.2: E42, v22.13i ;01
VideoDataECL-: u06.4o, C55	X.2: v23.14o ;02
	X.2: v24.6o ;07
VWord: #TP132.1i, u59.15o, u58.12i ;11	X.3: E142, v22.11i ;01
Wait: E17, v27.2i ;01	X.3: v23.12o ;02
	X.3: v24.9o ;07
WantWord': u72.8o, u73.5i ;11	X.4: E43, v22.2i ;01
	X.4: v23.3o ;02
WrBuf': v11.6o, #TP069.1i ;06	X.4: v24.12o ;07
WrBuf': u92.1i, u92.19i ;07	
WrBuf': u91.1i, u91.19i ;07	X.5: E143, v22.4i ;01
WrBuf': u93.1i, u93.19i ;07	X.5: v23.5o ;02
WrBuf': u94.1i, u94.19i ;07	X.5: v24.15o ;07
WrBuf': u79.1i, u79.19i ;07	
WrBufferA': u60.12o, #TP135.1i ;11	X.6: E44, v22.6i ;01
WrBufferA': v03.1i, v02.1i ;12	X.6: v23.7o ;02
	X.6: v24.16o ;07
WrBufferB': u60.6o, #TP136.1i ;11	X.7: E144, v22.8i ;01
WrBufferB': u87.1i, u86.1i ;12	X.7: v23.9o ;02
	X.7: v24.19o ;07
WrPctl1': u60.8o ;11	
WrPctl1': u98.13i ;11	X.8: E45, v21.17i ;01
WrPctl1': v20.9i ;11	X.8: v04.18o ;02
	X.8: v07.2o ;07
X.0: E41, v22.17i ;01	

XEROX	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS		DWG SIZE A4	DWG NO. 156P12301	SHEET REV. A
	TITLE SCHEMATIC, OPT		SHEET 41	OF	

X.9: E145, v21.15i ;01
 X.9: v04.16o ;02
 X.9: v07.5o ;07

 yio: v18.12o, v18.14i ;02

 YIODisp.1: v18.15o, E139 ;02

 ZComp: u26.7i ;09
 ZComp: u17.3o, #R27.2i, #R29.2i ;09

 ←EIData': E31, v27.8i ;06
 ←EIData': v07.1i ;07
 ←EIData': v24.1i ;07

 ←EStatus': v04.1i, v23.19i, v23.1i ;02
 ←EStatus': E131, v04.19i

XEROX	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE A4	DWG NO. 156P12301		SHEET REV. A
	TITLE SCHEMATIC, OPT		SHEET 42	OF	