SHEET INDEX

CONTENTS	SHEET NO.	ISSUE NO. 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
SHEET INDEX SUPPORTING INFORMATION	A1	1	2	3	4	5	6	7	8	9	10	11	12	13	14											
APPARATUS INDEX	A2Ax	1	2	3	4	4	6	7	8	9	10	11	12	13	13											
	A2Bx						6	6	8	8	10	10	10	10	10											
LEAD INDEX	A3	1	2	3	4	4	6	7	8	8	10	10	12	12	14											
	A4Ax						6	6	6	6	10	10	12	12	14											
	A4Bx														14											
OPTION INDEX	A5						6	6	6	9	10	11	12	13	14											
FS 1 LOCAL ACCESS CIRCUIT	B1	1	2	3	4	4	6	7	7	7	7	7	12	12	12											
FS 2 DISTRIBUTION CIRCUIT	B2	1	2	3	4	4	6	6	6	6	10	10	10	10	14											
	B3	1	2	3	4	4	6	6	6	6	10	10	10	10	14											
FS 3 LOCAL TEST PORTS A & B	B4	1	2	3	4	4	6	6	6	6	6	6	12	12	12											
	B5	1	2	3	4	4	4	4	4	4	4	4	4	4	4											
	B6	1	2	3	4	4	6	6	6	6	6	6	12	12	12											
	B7	1	2	3	4	4	4	4	4	4	4	4	4	4	4											
FS 4 LOCAL ACCESS CONTROL CIRCUIT FS 5 DISTRIBUTION NETWORK INTERCONNECTION CIRCUIT	B8	1	2	2	4	4	6	7	7	9	9	9	9	13	14											
FS 6 ALARM CIRCUIT	B9	1	2	2	4	4	4	4	4	4	4	4	4	4	4											
FS 7 STAGE ONE DISTRIBUTION MODULE (C) CIRCUIT	B10				4	5	6	7	7	7	7	11	12	12	14											
	B11				4	4	6	6	6	6	10	10	10	10	14											
FS 8 STAGE ONE DISTRIBUTION MODULE ( ) CIRCUIT	B12				4	4	6	6	6	6	10	11	12	12	14											
FS 9 LOCAL TEST PORTS A & B	B13						6	7	7	7	10	10	12	12	12											
	B14						6	6	6	6	6	6	6	6	14											
	B15						6	7	7	7	10	10	12	12	12											
	B16						6	6	6	6	6	6	6	6	14											
FS 10 LOCAL ACCESS CONTROL CKT	B17						6	7	7	7	7	7	7	7	14											
FS 11 LOCAL ACCESS CKT	B18						6	6	6	6	6	6	6	6	14											
FS 12 LOCAL TEST PORTS A & B	B19						6	6	6	6	6	6	12	12	14											
	B20						6	6	6	6	6	6	6	6	14											
	B21						6	6	6	6	6	6	12	12	14											
	B22						6	6	6	6	6	6	6	6	14											
FS 13 LOCAL ACCESS CONTROL CKT	B23						6	7	7	9	9	9	9	13	14											
FS 14 MAINTENANCE CONNECTOR NETWORK INTERFACE CKT FS 15 MAINTENANCE CONNECTOR NETWORK INTERFACE CKT EXPANSION STEERING CKT	B24						6	6	6	6	10	10	10	10	14											
FS 16 FUSING AND ALARM CKT FS 17 TERMINATE AND LEAVE RELAY CONTROL CIRCUIT	B25							8	8	10	10	12	13	13												
APP FIG. 1-3	C1	1	2	3	4	4	6	6	6	6	6	9	12	12	12											
APP FIG. 4,5	C2	1	2	3	4	4	6	6	6	6	6	6	12	12	14											
APP FIG. 6-9	C3	1	2	3	4	4	6	7	7	9	9	9	9	13	13											
APP FIG. 10-13	C4	1	2	2	4	4	6	7	7	7	7	7	7	7	7											
APP FIG. 14	C5				4	4	6	6	6	6	10	11	12	12	12											
APP FIG. 15	C6						6	6	6	6	6	6	12	12	12											
	C7						6	7	7	7	7	7	7	7	7											
APP FIG. 16,17,18	C8						6	6	8	8	10	10	12	13	13											
CIRCUIT NOTES	D1A *	1	2	3	4	4	6	7	8	9	10	10	12	13	14											
	D1B *							7	7	7	10	10	12	13	14											
EQUIPMENT NOTES INFORMATION NOTES	D2						6	6	6	6	6	6	6	6	14											

CONTENTS	SHEET NO.	ISSUE NO. 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
SC 1 STANDALONE BID	E1														14											
SC 2 STANDALONE ACCESS	E2														14											
SC 3 RECORDER OR TEST SELECTION	E3														14											
SC 4 STAGE = 1 DISTRIBUTION NETWORK SC 5 MAINTENANCE CONNECTOR	E4														14											
SC 6 STANDALONE RELEASE	E5														14											
SC 7 WITH RTS 5A CONTROL CIRCUIT LOCAL TEST PORT BID SC 8 CONTROL CKT WAITS MAXIMUM SEVEN SECONDS FOR ACC KEY TO BE DEPRESSED LOCAL TEST PORT ACCESS SC 9 START OF CONTROL CIRCUIT TIMING	E6														14											
SC 10 RTS CONTROL CKT ENABLING OF MC SC 11 RTS CONTROL CKT READ LEADS AND SELECT DISTRIBUTION NETWORK SC 12 ALARM TEST PAD ACCESS HOLD RELEASE	E7														14											
SC 13 RELEASE OF CONTROL CKT LATCHES SC 14 RTP WORK TIMING FOR CONTROL CKT	E8														14											
CIRCUIT REQUIREMENTS TABLE	F1	1	2	2	4	4	6	6	9	8	10	10	12	12	12											
CAD 1-3	G1	1	2	3	4	4	6	7	7	7	7	7	12	12	12											
CAD 4-6	G2	1	2	3	4	4	6	7	7	9	9	9	9	9	9											
CAD 7-9	G3	1	2	3	4	4	6	6	8	8	8	8	12	12	14											
CAD 10	G4	1	2	3	4	4	6	7	8	9	9	9	9	13	13											
CAD 11-13	G5	1	2	3	4	4	6	6	6	6	10	10	10	10	14											
CAD 14-16	G6	1	2	3	4	4	6	6	6	6	10	10	10	10	14											
CAD 17	G7	1	2	3	4	4	6	6	6	6	6	6	6	6	6											
CAD 18,19	G8	1	2	2	4	4	4	4	4	4	4	4	4	4	14											
CAD 20,21,22	G9				4	4	6	6	6	6	10	10	12	12	14											
CAD 23,24,25	G10				4	4	6	6	6	6	10	10	12	12	12											
CAD 26,27,28	G11				4	4	4	4	4	4	10	10	10	10	14											
CAD 29,30	G12				4	4	4	4	4	4	4	4	4	4	4											
CAD 31,32,33,34	G13						6	7	7	7	10	10	12	12	14											
CAD 35	G14						6	7	7	7	7	7	7	7	7											
CAD 36,37,38,39	G15						6	6	6	6	10	10	10	10	10											
CAD 40,41	G16						6	6	6	6	10	10	10	10	10											
CAD 42	G17						6	6	8	9	9	9	9	13	13											
CAD 43,44	G18						6	6	6	9	9	9	9	9	9											
BD 1 SWITCHED MAINTENANCE SYSTEMS STAND ALONE BD 2 CONNECTING CIRCUITRY FOR TWO PORT STAND ALONE	H1	1	2	2	4	4	6	6	6	6	6	6	6	6	6											
BD 3 SMAS 5A STAND ALONE WITH TWO PORTS	H2				4	4	6	6	6	6	6	6	6	6	6											
BD 4 SMAS 5A-RTS 5A ARRANGEMENT	H3				4	4	4	4	4	4	4	4	4	4	14											
BD 5 SMAS 5A-RTS 5A ARRANGMENT	H4						6	6	6	6	6	6	6	6	14											
BD 6 SMAS 5B-RTS 5A ARRANGEMENT	H5														14											
BD 7 TWO PORT SYSTEM INTERCONNECTION FOR TYPE 4 MC & MCC	H6														14											
BD 8 MULTIPORT SYSTEM INTERCONNECTION FOR TYPE 4 MC & MCC	H7														14											
BD 9 SYSTEM INTERCONNECTION FOR DIGITAL TEST ACCESS CONNECTORS (DTAC)	H8														14											

* SECTION A & D SHEETS WITH SUFFIX A AND B WERE FORMERLY WITHOUT A SUFFIX LETTER.

DWG ISSUE	CD ISSUE	DATE ISSUED	Drawn	Appd
1	1	10-5-77	CDI NVM	GCC EGS MOE
2A	2A	1-27-77	ZEN NVM	GCC EGS MOE
3A	3A	12-27-77	CDI NVM	GCC EGS MOE
4B	3A APP1B	12-27-77	CDI NVM	GCC EGS MOE
5A	3A APP2A	2-28-79	CDI NVM	GCC EGS MOE
6B	4B	2-28-79	CDI NVM	GCC EGS MOE
7A	4B APP1A	2-28-79	CDI NVM	GCC EGS MOE
8B	4B APP2B	5-21-79	NVM EGS NVM	GCC EGS MOE
9AC	4B APP2C	5-21-79	NVM NVM	GCC EGS MOE
10B	5B	10-28-81	CDI BAT	RIN HSB RTR
11AB	5B APP1AB	10-28-81	CDI BAT	RIN HSB RTR
12A	5B APP2A	10-28-81	CDI BAT	RIN HSB RTR
13AC	5B APP2AC	10-28-81	CDI BAT	RIN HSB RTR
14B	5B APP1B	10-29-81	CDI BAT	RIN HSB RTR

SHEET INDEX NOTES

1. WHEN CHANGES ARE MADE IN THIS DRAWING, ONLY THOSE SHEETS AFFECTED WILL BE REISSUED.
2. THIS SHEET INDEX WILL BE REISSUED AND BROUGHT UP TO DATE EACH TIME ANY SHEET OF THE DRAWING IS REISSUED, OR A NEW SHEET IS ADDED.
3. THE ISSUE NUMBER ASSIGNED TO A CHANGED OR NEW SHEET WILL BE THE SAME ISSUE NUMBER AS THAT OF THE SHEET INDEX.
4. SHEETS THAT ARE NOT CHANGED WILL RETAIN THEIR EXISTING ISSUE NUMBER.
5. THE LAST ISSUE NUMBER OF THE SHEET INDEX IS RECOGNIZED AS THE LATEST ISSUE NUMBER OF THE DRAWING AS A WHOLE.

SUPPORTING INFORMATION

CATEGORY	NO.
EQUIPMENT DESIGN REQTS	J1P033 (624-102-117)
EQUIPMENT DRAWINGS	J1P033E J1P033F J1P033G J1P033H J1P033J ~~J1P033AA~~ J1P033AB J1P033AC J1P033AD J1P033AK J1P033AL
INSTALLATION GUIDE	ED-1P489-( ) ED-1P465-01
APPLICATION SCHEMATIC	SD-1P138-01

ISSUE 14B

1U90

OPERATIONS SUPPORT SYSTEMS

COMMON

SWITCHED MAINTENANCE ACCESS SYSTEM NO. 5( )

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT

(2)

AT&TCO STANDARD

SD-1P106-01-A1

78 SHEETS

BELL TELEPHONE LABORATORIES

66

PART OF APPARATUS INDEX

DESIG	LOCATION FS	APP FIG.	EQPT
RELAYS			
A	10G6	13	
A0-A6	24(A-D)1	16	
ACC1	8A4, 23B2	6	
ACC1	17B2	15	
ACC2	8A4, 23C2	6	
ACC2	17C2	15	
ACC3	8B4, 23D2	6	
ACC3	17D2	15	
ALM	8A5, 23B5	6	
ALM	17B5	15	
B	10H6	13	
B0-B6	24(D-G)1	16	
BIDA	4B4, 19C3	5	
BIDA	13C3	15	
BIDB	6B4, 21C3	5	
BIDB	15C3	15	
BUSY	8A5, 23C5	6	
BUSY	17C5	15	
CMA	4G4, 19G3	10	
C..	13F3	15	
CMB	6G4, 21G3	10	
CMB	15F3	15	
DF1A	13D3	15	
DF1B	15D3	15	
DFA	13G2	15	
DFB	15G2	15	
ENO-EN2	28(G,H)1	16	
ENABA	10D5	13	
ENABAB	10E5	13	
ENABB	10F5	13	
FA	2581	17	
IDLEA	4B4, 19B2	5	
IDLEA	13B2	15	
IDLEB	6B4, 21B2	5	
IDLEB	15B2	15	
K0	3D1	4	
K1	3E1	4	
K2	3F1	4	
K3	3G1	4	
K4	3G1	4	
K5	3D6	4	
K6	3E6	4	
K7	3F6	4	
K8	3G6	4	
K9	3G6	4	
LTA	4D5, 19C5	5	
LTA	13C5	15	
LTB	6D5, 21C5	5	
LTB	15C5	15	
MN1	9A1	11	
MN2	9C1	11	
NSN	8B5, 23D5	6	
NSN	17D5	15	
REOA	4F5, 19F1	5	
REOA	13F1	15	
REOB	6F5, 21F1	5	
REOB	15F1	15	
RLSA	4E4, 19E3	5	
RLSA	13E3	15	

DESIG	LOCATION FS	APP FIG.	EQPT
RELAYS (CONT)			
RLSB	6E4, 21E3	5	
RLSB	15E3	15	
RTLA	25C7	18	
RTLB	25C7	18	
SELA	4D4, 19C2	5	
SELA	13C2	15	
SELB	6D4, 21C2	5	
SELB	15C2	15	
SPAA	4C8, 19C7	5	
SPAA	13C7	15	
SPAB	6C8, 21C7	5	
SPAB	15C7	15	
SPBA	4E8, 19D7	5	
SPBA	13D7	15	
SPBB	6E8, 21D7	5	
SPBB	15D7	15	
SPEA	4D8, 19D7	10	
SPEA	13D7	15	
SPEB	6D8, 21D7	10	
SPEB	15D7	15	
SPLA	4H4, 19H3	5	
SPLA	13G3	15	
SPLAA	5D9, 2089	6	
SPLAA	1489	15	
SPLAB	7D9, 2289	6	
SPLAB	1689	15	
SPLB	6H4, 21H3	5	
SPLB	15G3	15	
SPLBA	5E9, 2009	6	
SPLBA	14D9	15	
SPLBB	7E9, 2209	6	
SPLBB	16D9	15	
TLA	2587	18	
TLB	2587	18	
TMB	11F3	13	
TSTA	4E4, 19E2	5	
TSTA	13E2	15	
TSTB	6E4, 21E2	5	
TSTB	15E2	15	
UNT1	1D1, 18E1	9	
UNT1S	1E1, 18F1	9	
UNT2	1F1, 18G1	9	
UNT4	1G1, 18G1	9	
UNT8	1G1, 18H1	9	

DESIG	LOCATION FS	APP FIG.	EQPT
RELAYS (CONT)			

COMPONENT ASSEMBLY			
CA1	25G1	6	

CONNECTORS			
A EA	5B7	2	
A EB	7B7	2	
A FA	5B7	2	
A FB	7B7	2	
B EA	5E7	2	
B EB	7E7	2	
B FA JACKS	5E7	2	
B FB	7E7	2	
S EA	5H7	3	
S EB	7H7	3	
S FA	5H7	3	
S FB	7H7	3	

CONVERTERS			
24V	8B2, 23H2	8	

DESIG	LOCATION FS	APP FIG.	EQPT
DIODES			
A	10G6	13	
ACC1	17B2	15	
ACC2	17C2	15	
ACC3	17D2	15	
ALM	17B5	15	
B	10H6	13	
BIDA	13C3	15	
BIDB	15C3	15	
BUSY	17C5	15	
CMA	13F3	15	
CMB	15F3	15	
CR0A	3D1	4	
CR0B	3D1	4	
CR0C	3D1	4	
CR(0-9)D	11(C-F)2	13	
CR1	1E1, 18E1	9	
CR1	24B1	16	
CR1A	3E1	4	
CR1A	13C1	15	
CR1B	3E1	4	
CR1B	15C1	15	
CR1C	3E1	4	
CR2	1E1, 18F1	9	
CR2	24B1	16	
CR2A	3F1	4	
CR2A	13C1	15	
CR2B	3F1	4	
CR2B	15C1	15	
CR2C	3F1	4	
CR3	1F1, 18G1	9	
CR3	24E1	16	
CR3A	3G1	4	
CR3A	13E1	15	
CR3B	3G1	4	
CR3B	15E1	15	
CR3C	3G1	4	
CR4	1C1	1	
CR4	24E1	16	
CR4A	3G1	4	
CR4A	13B6	15	
CR4B	3G1	4	
CR4B	15B6	15	
CR4C	3G1	4	
CR5	1G1, 18G1	9	
CR5A	3D5	4	
CR5A	13C7	15	
CR5B	3D6	4	
CR5B	15C7	15	
CR5C	3D6	4	
CR6	1H1, 18H1	9	
CR6A	3E5	4	
CR6A	13D8	15	
CR6B	3E6	4	
CR6B	15D8	15	
CR6C	3E6	4	
CR7A	3F5	4	
CR7A	4B4, 19B2	5	
CR7A	13D8	15	
CR7B	3F6	4	
CR7B	6B4, 21B2	5	
CR7B	15D8	15	
CR7C	3F6	4	
CR8	17C6	15	
CR8A	3G5	4	
CR8A	4C4, 19C3	5	
CR8B	3G6	4	
CR8B	6C4, 21C3	5	
CR8C	3G6	4	

DESIG	LOCATION FS	APP FIG.	EQPT
DIODES (CONT)			
CR9	17D5	15	
CR9A	3G5	4	
CR9A	4D4, 19C2	5	
CR9B	3G6	4	
CR9B	6D4, 21C2	5	
CR9C	3G6	4	
CR1C	3A0	4	
CR1O	17D4	15	
CR10A	4E4, 19E2	5	
CR10B	6E4, 21E2	5	
CR11	3A5	4	
CR11	17D1	15	
CR11A	4F5, 19F1	5	
CR11B	6F5, 21F1	5	
CR12	17D1	15	
CR12A	4F4, 19E3	5	
CR12B	6F4 21E3	5	
CR13	17D1	15	
CR13A	4D8, 19C7	5	
CR13B	6D8, 21C7	5	
CR14B	4E8, 19E7	5	
CR14A	13E1	15	
CR14B	6E8, 21E7	5	
CR14B	15E1	15	
CR15A	4C6, 19B6	5	
CR15A	13E1	15	
CR15B	6C6, 21B6	5	
CR15B	15E1	15	
CR16A	4E5, 19C5	5	
CR16B	6E5,21C5	5	
CR17A	4H4, 19H3	5	
CR17B	6H4, 21H3	5	
CR18	8A4, 23C2	6	
CR19	8B4, 23C2	6	
CR20	8C4, 23D2	6	
CR21	8B2, 23G7	7	
CR22A	4E8	10	
CR22B	19D7 6E8, 21D7	10	
CR23A	4G4, 19G3	10	
CR23B	6G4, 21H3	10	
CR24	1A6, 18A6	9	
CR25	1B6, 18B6	9	
CR26	1C6, 18B6	9	
CR27	1D6, 18C6	9	
CR28	1E6, 18E6	9	
CR29	1G6, 18G6	9	
CR30A	4B2, 19C2	5	
CR30B	6B2, 21C1	5	

DESIG	LOCATION FS	APP FIG.	EQPT
DIODES (CONT)			
CR31A	4D4, 19C1	5	
CR31B	6D4, 21C1	5	
CR32A	4D4, 19E1	5	
CR32B	6D4, 21E1	5	
CR33A	4D8, 19C7	5	
CR33B	6D8, 21C7	5	
CR34A	4E7, 1908	5	
CR34B	6E7, 2108	5	
CR35A	4E7, 1908	10	
CR35B	6E7, 2108	10	
CR36	8B5, 2304	6	
CR37A	5D9, 2089	6	
CR37B	7D9, 2289	6	
CR38A	5E9, 2009	6	
CR38B	7E9, 2209	6	
CR39	18B, 18A9	9	
CR40	18B, 1889	9	
CR41	1B8, 1889	9	
CR42	1C8, 18C9	9	
CR43	1C8, 18C9	9	
CR44	8B6, 23C6	6	
CR45	8B5, 23D5	6	
CR46	8A5, 23C5	6	
CR47	8B5, 23C5	6	
CR48	8B5,23D5	6	
CR49	8C2,23D2	6	
CR50	8C2,23E2	6	
CR51	8C2,23E2	6	
CR52	8B3,2382	6	
CR53	8B3,2382	6	
CRU1	1C2	1	
CRU2	1C3	1	
CRU4	1D3	1	
CRU8	1D3	1	
DF1A	1303	15	
DF1B	1503	15	
DFA	1302	15	
DFB	1502	15	
ENABA	10E5	13	
ENABB	10E5	13	
H(0-9)	10G2, 12G2	14	
HC(0-9)	10F2	13	
HOLL(0-9)	10H2, 12H2	14	
IDLEA	1382	15	
IDLEB	1582	15	
LTA	13C5	15	
LTB	15C5	15	
NSN	17D5	15	

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT

DWG SIZE 6S | ISSUE 13AC

BELL LABORATORIES | SD-1P106-01 | -A2A

PART OF APPARATUS INDEX

DESIG	LOCATION FS	APP FIG.	EQPT
DIODES (CONT)			
REOA	13F1	15	
REOB	15F1	15	
RLSA	13E3	15	
RLSB	15E3	15	
RTLA	25C7	18	
RTLB	25C7	18	
SEL(0-4)	10A5, 12A5	14	
SEL(5-9)	10C5, 12C5	14	
SELA	13C2	15	
SELB	15B2	15	
SELL(5-9)	10C5, 12C5	14	
SPAA	13C7	15	
SPAB	15C7	15	
SPBA	13D7	15	
SPBB	15D7	15	
SPEA	13D7	15	
SPEB	15D7	15	
SPLA	13G3	15	
SPLAA	14B9	15	
SPLAB	16B9	15	
SPLB	15G3	15	
SPLBA	14D9	15	
SPLBB	16D9	15	
TL5	25A7	18	
TL6	25B7	18	
TLA	25C7	18	
TLB	25C7	18	
TSTA	13E2	15	
TSTB	15E2	15	

DESIG	LOCATION FS	APP FIG.	EQPT
FUSES			
FA1-FA10	25C2, 25D2	17	

DESIG	LOCATION FS	APP FIG.	EQPT
INTEGRATED CIRCUITS			
IC1A	5B4, 14B4, 20B4	12	
IC1B	7B4, 16B4, 22B4	12	
IC2A	5E4, 14E4, 20E4	12	
IC2B	7E4, 16E4, 22E4	12	

DESIG	LOCATION FS	APP FIG.	EQPT
JACKS			
SEE CONNECTOR			

DESIG	LOCATION FS	APP FIG.	EQPT
KEYS			
ACC	SEE APP FIG.	1	
BIDA		2	
BIDB		2	
LTA		2	
LTB		2	
MONA		2	
MONB		2	
RLSA		2	
RLSB		2	
RST TRMA		2	
RST TRMB		2	
SPAA/SPFA		2	
SPAB/SPFB		2	
SPBA/SPEA		2	
SPBB/SPEB		2	
SSA		3	
SSB		3	

DESIG	LOCATION FS	APP FIG.	EQPT
LAMPS			
2W/4WTSTA	4F8	2	
2W/4WTSTB	6F8	2	
6WTSTA	4G8	3	
6WTSTB	6G8	3	
ALM	8A6	1	
BUSY	8B6	1	
FA	25C1	17	
NSN	8B6	1	
SPLA	4F4	2	
SPLB	6F4	2	

DESIG	LOCATION FS	APP FIG.	EQPT
RESISTORS			
R1	3A0	4	
R1A	4B4, 19B2	5	
R1A	13B2	15	
R1B	6B4, 21B2	5	
R1B	15B2	15	
R2	3A5	4	
R2A	4D4, 19C2	5	
R2B	6D4, 21C2	5	
R3	3A0	4	
R3	8C6, 23D5	6	
R3	17D5	15	
R4	3A5	4	
R4	8C6, 23F6	6	
R4	17F6	15	
R5	8A2, 23G2	7	
R6A	5B4, 14B3, 20B3	12	
R6B	7B4, 16B3, 22B3	12	
R7A	5B4, 14B4, 20B4	12	
R7B	7B4, 16B4, 22B4	12	
R8A	5B4, 14B4, 20B4	12	
R8B	7B4, 16B4, 22B4	12	
R9A	5A4, 14B4, 20B4	12	
R9B	7A4, 16B4, 22B4	12	
R10A	5B4, 14C4, 20C4	12	
R10B	7B4, 16C4, 22C4	12	
R11A	5B5, 14B5, 20B5	12	
R11B	7B5, 16B5, 22B5	12	
R12A	5E4, 14E3, 20E3	12	
R12B	7E4, 16E3, 22E3	12	
R13A	5E4, 14E4, 20E4	12	
R13B	7E4, 16E4, 22E4	12	
R14A	5E4, 14E4, 20E4	12	

DESIG	LOCATION FS	APP FIG.	EQPT
RESISTORS (CONT)			
R14B	7E4, 16E4, 22E4	12	
R15A	5D4, 14D4, 20D4	12	
R15B	7D4, 16D4, 22D4	12	
R16A	5F4, 14E4, 20E4	12	
R16B	7F4, 16E4, 22E4	12	
R17A	5E5, 14E5, 20E5	12	
R17B	7E5, 16E5, 22E5	12	
TLA	25A6	18	
TLB	25B6	18	

DESIG	LOCATION FS	APP FIG.	EQPT
SWITCHES			
HUND	SEE APP FIG.	1	
LOWER		14	
TENS		1	
THOU		1	
UNIT		1	
UPPER		14	

DESIG	LOCATION FS	APP FIG.	EQPT
TRANSFORMER			
T1A	5B5, 14B5, 20B5	12	
T1B	7B5, 16B5, 22B5	12	
T2A	5E5, 14E5, 20E5	12	
T2B	7E5, 16E5, 22E5	12	

DESIG	LOCATION FS	APP FIG.	EQPT

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT

DWG SIZE 6S | ISSUE 10B

BELL LABORATORIES | SD-1P106-01 | -A2B

LEAD INDEX

DESIG	LOCATION FS	CAD
AUXILIARY NETWORK		
A	11A0	11D3
AL*	11A0	11D3
B	11A0	11D3
C	11A0	11D3
D	11A0	11D3
DET	11A0	11D3
E	11A0	11D3
F	11A0	11D3
G	11A0	11D3
GTB(0-9)	11A0	11D3
GTG(0-9)	11A0	11D3
H	11A0	11D3
HLD(0-9)	11B7, 12D5	10C0
HO	11A0	11D3
QE	11A0	11D3
SC	11A0	11D3
SEL	11A0	11D3
TAL	11A0	11D3
TGTGO	11A0	11D3
TMB(0-9)	11A0	11D3
TPB	11A0	11D3
Y	11A0	11D3

DESIG	LOCATION FS	CAD
BRIDGE ADAPTER		
CM1( )( )	10D2	3C3, 3F3, 9E0
CM2( )( )	10D2	
ED( )( )	10D2	
EL( )( )	10D2	
ENAB( )( )	10D2	
H OR H1( )( )	10D2	
MD( )( )	10D2	
ML( )( )	10D2	
R( )( )	10D2	
R1( )( )	10D2	
T( )( )	10D2	
T1( )( )	10D2	

DESIG	LOCATION FS	CAD
DIGITAL TEST ACCESS CONN CKT		
A	11B3	50(4,7) 1100
(AO)		
ALM1	11C3	
B	11B3	
(BO)		
C	11B3	
CM1( )( )	10D2	980,9E0
CM2( )( )	10D2	980,9E0
D	11B3	50(4,7) 1100
DET	11H3	
E	11B3	
ED( )( )	10D2	980,9E0
EL( )( )	10D2	980,9E0
ENAB	10D2	980,9E0
F	11B3	50(4,7) 1100
G	11B3	
GTB(0-9)	11H1	
GTG(0-9)	11G3	
H	11B3	
HO	11C3	
H OR H1( )( )	10D2	980,9E0
MD( )( )	10D2	980,9E0
ML( )( )	10D2	980,9E0
QE	11H1	1100 504
(QE)		
R( )( )	10D2	980,9E0
R1( )( )	10D2	980,9E0
SC	11C3	50(4,7) 1100
SEL	11B3	
T( )( )	10D2	980,9E0
T1( )( )	10D2	980,9E0
TAL	11H3	50(4,7) 1100
TGTGO	11G3	
TMB(0-9)	11H1	
TPB	11H1	
Y	11C3	

DESIG	LOCATION FS	CAD
JACK,KEY & LAMP CKT		
1-1	16B6, 22B6	2D0, 13D0, 18D0
1-2	16C6, 22C6	
1-3	16D6, 22D6	
1-4	16F6, 22F6	
1-5	16H6, 22H6	
1-6	16G6, 22G6	
1-7	15B4, 21B4	
1-8	15B4, 21B4	
1-9	15E8, 21E8	2D0, 13D0, 18D0
1-10	15D5, 21D5	
1-11	15C8, 21C8	
1-12	15E5, 21F5	
1-13	15C8, 21C8	
1-14	15C5, 21C5	
1-15	15E8, 21E8	
1-16	15E5, 21E5	
1-17	15A4, 21A4	
1-18	15F4, 21F4	
1-19	15B4, 21B4	
1-20	16B6, 22B6	
1-21	8C1, 17D0, 18A0	2D0, 13D0, 18D0
1-22	16E6, 22E6	
1-23	14B6, 20B6	2D0, 13D0, 18D0
1-24	14E6, 20E6	
1-25	25A5	13D0
1-26	16A6, 22A6	2D0, 13D0, 18D0
1-27	16C6, 22C6	
1-28	16D6, 2206	
1-29	16F6, 22F6	
1-30	16G6, 22G6	
1-31	16G6, 22G6	2D0, 13D0, 18D0
1-32	15C4, 21C4	
1-33	15C5, 21C5	
1-34	15E8, 21E8	
1-35	15D8, 21D8	
1-36	15C8, 21C8	
1-37	15E4, 21E4	
1-38	15C8, 21C8	
1-39	15B5, 21B5	

DESIG	LOCATION FS	CAD
JACK,KEY & LAMP CKT (CONT)		
1-40	15E8, 21E8	2D0, 13D0, 18D0
1-41	15D5, 21D5	
1-42	15D5, 21D5	
1-43	15B4, 21B4	
1-44	15B8, 21B8	
1-45	8C1, 17E0, 18D0	
1-46	16D6, 22D6	
1-47	16F6, 22F6	
1-48	14D6, 20D6	
1-49	14F6, 20G6	
1-50	25B5	13D0
2-1	14B6, 20B6	2D4, 13D3, 18D3
2-2	14C6, 20C6	
2-3	14D6, 20D6	
2-4	14F6, 20F6	
2-5	14H6, 20H6	
2-6	14G6, 20G6	
2-7	13B4, 19B4	
2-8	13B4, 19B4	
2-9	13E8, 19E8	
2-10	13D5, 19D5	2D4, 13D3, 18D3
2-11	13C8, 19D8	
2-12	13E5, 19F5	
2-13	13C8, 19C8	
2-14	13C5, 19C5	
2-15	13E8, 19E8	
2-16	13E5, 19E5	
2-17	13A4, 19A4	
2-18	13F4, 19F4	
2-19	13B4, 19B4	
2-20	19C4	
2-21	17B0, 23B0	
2-22	17E8, 23E8	
2-23	17D0, 10E0	
2-24	17D0, 18A0	
2-25	13B5	
2-26	14A6, 20A6	
2-27	14C6, 20C6	
2-28	14D6, 2006	
2-29	14F6 18E0 20E6	

DESIG	LOCATION FS	CAD
JACK,KEY & LAMP CKT (CONT)		
2-30	14G6, 20G6	2D7
2-31	14G6, 20G6	2D7
2-32	13C4, 19C4	2D7
2-33	13C5, 19C5	2D7
2-34	13E8, 19E8	2D7
2-35	13D8, 19D8	2D7
2-36	13C8, 19C8	2D7
2-37	13E4, 19E4	2D7
2-38	13C8, 12C0	2D7
2-39	13B5, 1985	2D7
2-40	13E8, 19E8	2D7
2-41	13D5, 19D5	2D7
2-42	13D5, 19D5	2D7
2-43	13B4, 19B4	2D7
2-44	13B8, 1988	2D7
2-45	17B0, 23B0	2D7
2-46	17E8, 23E8	2D7
2-47	17E8, 23E8	2D7
2-48	17F0, 1880	2D7
2-49	17E0, 18C0	2D7
2-50	13B5	2D7
3-1	18B2	2D7
3-2	18B2	2D7
3-3	18B2	2D7
3-4	18B2	2D7
3-5	18B2	2D7
3-6	18B2	2D7
3-7	18B2	2D7
3-8	18B2	2D7
3-9	18B2	2D7
3-10	18B2	2D7
3-11	18D2	2D7
3-12	18D2	2D7
3-13	18D2	2D7
3-14	18D2	2D7
3-15	18D2	2D7
3-16	18D2	2D7
3-17	18D2	2D7
3-18	18D2	2D7
3-19	18D2	2D7
3-20	18D2	2D7
3-21	18E2	2D7
3-22	18E2	2D7
3-23	18E4	2D7
3-24	18E2	2D7
3-25	18C2	2D7
3-26	18C2	2D7
3-27	18C2	2D7
3-28	18C2	2D7
3-29	18C2	2D7
3-30	18C2	2D7
3-31	18C2	2D7
3-32	18C2	2D7
3-33	18C2	2D7
3-34	18C2	2D7
3-35	18C2	2D7
3-36	18A5	2D7

DESIG	LOCATION FS	CAD
JACK,KEY & LAMP CKT (CONT)		
3-37	18A5	2D7
3-38	18A5	2D7
3-39		2D7
3-40		2D7
3-41		2D7
3-42		2D7
3-43		2D7
3-44		2D7
3-45		2D7
3-46	18C8	2D7
3-47	18C8	2D7
3-48	18C8	2D7
3-49		2D7
3-50		2D7
SEL BAT.	8C1	
SEL BAT. 1	8C1	
SEL GRD	8C1	
SEL GRD 1	8C1	

DESIG	LOCATION FS	CAD
MICE CONN CKT		
-48(D-H)	2C3	6D3,6D8 6D3
25-28		
A	2C3	
ALM1	2C3,8A8, 23C8	
ALM2	2C3	6D3, 6D8
ALM2R	2C3	
B	2C3.	
C	2C3.	
CM1	3D9	
CM2	3D9	
D	2C3.	
E	2C3.	
ED	3D9	
EL	3D9	
F	2C3,	6D3
FGB		
G	2C3,	6D3, 6D8
GRD	2C3	
GTB	2C3	
GTG	2C3, 3D9,	6D3
H	2C3	
HO	3D9	
H1	3D9	
LO	3D9	
MB	3D9	6D3, 6D8
MD	2C3, 460	
ML	2C3, 8A8, 23C8	6D3
R	3D9	
R1	3D9	
SC	2C3, 460	6D3, 6D8
SEL	3D9	
SGB	3D9	
T	2C3, 8A8, 23C8	6D3, 6D8
T1	2C3, 460	
TPB		
Y		

DESIG	LOCATION FS	CAD
MICE CONN CONTROL CKT		
A	11B3, 18B9	3D7, 50(4,7) 1100
(AO)		
ALM1	11C3, 23D8	
B	11B3, 18B9	
(BO)		
C	11B3, 18B9	
CM1	3A4, 3H5, 10D2	3B3, 3F3, 5C0, 5F0, 6C0, 6F0, 9B0, 9E0, 3D7, 50(4,7) 1100
CM2	3A4 3H5, 10D2	
D	11B3, 18B9	
DET	11H3	50(4,7) 1100
E	11B3, 18B9	
ED	3A4, 3H5 10D2	3B3, 3F3, 5C0, 5F0, 6C0, 6F0, 9B0, 9E0
EL	3A4, 3H5, 10D2	
ENAB( )	3A4, 3H5, 10D2, 19F8, 21F8	
F	11B3, 18B9	3D7, 50(4,7) 1100
G	11B3, 18B9	
GTB(0-9)	11H1, 18C3	
GTG(0-9)	18C3, 11G3	
H	11B3, 18B9	
HO	11C3	50(4,7) 1100
H OR H1	3A4, 3H5, 10D2, 19F8, 21F8	3B3, 3F3, 5C0, 5F0 6C0, 6F0, 9B0, 9E0
MD	3A4, 3H5, 10D2	
ML	3A4, 3H5, 10D2	
QE (QE)	11H1	1100 504
R	3A4, 3H5, 10D2	3B3, 3F3, 5C0, 5F0, 6C0, 6F0 9B0 9E0
R1	3A4, 3H5, 10D2	
SC	11C3, 19H0	3D7, 50(4,7) 1100
SEL	11B3, 2308	3B3, 3D7, 3F3, 5(CF)C 50(4,7) 6C0, 6F0
T	3A4, 3H5, 10D2	3B3 3F3, 5C0, 5F0, 6C0, 6F0, 9B0, 9E0
T1	3A4, 3H5, 10D2	

DESIG	LOCATION FS	CAD
MICE CONN CONTROL CKT (CONT)		
TAL	11G3	50(4,7) 1100
TGTGO	11G3	
TMB(0-9)	11H1, 18C3	3D7, 50(4,7) 1100
TPB	11H1, 23C8	
Y	11C3, 19H0	

DESIG	LOCATION FS	CAD
METALLIC FACILITY TERM		
R	8F4	
R1	8F4	
T	8F4	
T1	8F4	
(FOR INFO ONLY)		

DESIG	LOCATION FS	CAD
MSG TRK CKT		
RA	8F4, 8F9	8D0, 8D5
RB	8F4, 8F9	
RC	8F9	8D5
TA	8F4, 8F9	8D0, 8D5
TB	8F4 8F9	
TC	8F9	8D5

DESIG	LOCATION FS	CAD
OFFICE ALARM CKT		
MN	9B2, 9D2, 25D0	
MNR		
MNV		
MNVR		

DESIG	LOCATION FS	CAD
OFFICE INTERRUPTER CKT		
601PMBR3	4A8, 6A8, 19F8, 21F8	4D7, 17D7
601PMBR3	13F8, 15F8	14D7
ST	4A8, 6A8, 19F3, 21F8	4D7, 17D7
ST	13F8, 15F8	14D7

DESIG	LOCATION FS	CAD
PHANTOM MICE CONN CKT		
-48(D-H)	2C3	6D3
A	2C3	
ALM1	2C3	
ALM2	2C3	
ALM2R	2C3	
B	2C3	
C	2C3	
CM1	3D9	
CM2	3D9	
D	2C3	
E	2C3	
ED	3D9	
EL	3D9	
F	2C3	
FGB		
G	2C3	
GRD	2C3	
GTB	2C3	
GTG	2C3	
H	2C3	
HO	2C3	
H OR H1	3D9	
LO		
MB	2C3	
MD		
ML	3D9	
R		
R1		
SC	2C3	
SEL	2C3	
SGB	2C3	
T	3D9	
T1	3D9	
TPB	2C3	
Y	2C3	

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT

DWG SIZE: 6S | ISSUE: 14B

BELL LABORATORIES | SD-1P106-01 | -A3

DESIG	LOCATION FS	LOCATION CAD
REMOTE MAINTENANCE LOOP CKT		
A	11B3	5D4,
ALM1	11C3	5D7, 11D0
(AO)		5D4
B	11B3	5D4, 5D7, 11D0
(BO)		5D4
C	11B3	5D4, 5D7 11D0
CM1	3A4,	5C0,
	3H5	5G0,
CM2	3A4,	6C0,
	3H5	6F0
D	11B3	5D4,
DET		5D7,
E	1133	11D0
ED	3A4,	
	3H5	
EL	3A4,	5C0,
	3H5	5G0,
		6C0,
ENAB(A)	3A4,	6F0
	3H5	
ENAB(B)	3A4,	
	3H5	
F	11B3	
G	11B3	5D4,
GTB(0-9)( )	2C3,	5D7,
	11H1	11D0
GTG(0-9)	11G3	
H	11B3	
H OR H1	3A4,	5C0,
	3H5	5G0,
		6C0,
		6F0
HO	11C3	5D4,
		5D7,
		11D0
MD	3A4,	5C0,
	3H5	5G0,
ML	3A4,	6C0,
	3H5	6F0
QE	11H1	11D0
(QE)		5D4
R	3A4,	5C0,
	3H5	5G0,
R1	3A4,	6C0,
	3H5	6F0
SC	11C3	5D4,
		5D7,
		11D0
SEL	11B3	5D0,
		5G0,
		5D4,
		5D7,
		11D0
T	3A4,	5C0,
	3H5	5G0,
T1	3A4,	6C0,
	3H5	6F0
TAL	11H3	
TGTGO	11G3	
TMB(0-9)( )	11H1	5D4,
		5D7,
		11D0
TPB	11H1	
Y	11C3	

DESIG	LOCATION FS	LOCATION CAD
RTS 5A CONTROL CKT		
+24	8A1,	3D0,
	23F0	13D5
	17C0	
0A	1A9,	
	18A9	
0B	1C9	
1	1D3,	
	18D4	
1A	1A9,	
	18A9	11D7,
1B	1C9	11D6
2	1D3,	
	18D4	
2A	1A9,	
	18A9	
2B	1C9	
3-6	25A8	
3-7	25A8	
3-8	25C8	
		13D5
3-31	25B8	
3-32	25C8	
3-33	25C8	
3A	18B	
4	1D3,	
	18D4	
4A	18B	
5A	18B	
6A	18B	
7A	18B	11D7,
		11D6
8	1D3,	
	18D4	
8A	18B	
9A	18B	
A	2C0,	5D3,9D7,
	11D0,	11D6,
	24B5	15D0
AO	24B0	5D3,
		15D0
ABA	4C1,	
	19C1	
	13D1	
ABB	6C1,	
	21D1,	
	15D1	
ABRA	4C1,	
	19D1,	
	13D1	
ABRB	6C1,	3D0,
	21D1,	13D5
	15D1	
AM	8B1,	
	23C0,	
	17C0	
AHR	8C1,	
	23D0,	
	17D0	
ALM1	2C0,	
	8C8,	9D7,
	11D0,	11D6,
	23B8	13D5,
	17B8	15D0
	24B5	
B	2C0,	5D3,9D7,
	11D0,	11D6,
	24B5	15D0
BO	24B0	5D3,
		15D0
C	2C0,	5D3,9D7,
	11D0,	11D6,
	24B5	15D0
D	2C0,	5D3,
	11D0,	11D6,
	24B5	15D0
DET	2F0,	5D3,
	11D0,	9D7,
	24B5	15D0
	13G1	13D5
DF	13G1	13D5
DFR	48I,	3D0,
DISCA	19B1,	13D5
	13B1	
DISCB	68I,	3D0,
	21B1,	13D5
	15B1,	

DESIG	LOCATION FS	LOCATION CAD
RTS 5A CONTROL CKT (CONT)		
DISCRA	4B1,	3D0,
	19B1	13D5
	13B1	
DISCRB	6B1,	3D0,
	21B1,	13D5
	15B1	
E	2C0,	5D3,9D7,
	11D0,	11D6,
	24B5	15D0
EXT REQA	4F1,	3D0,
	19E1,	13D5
	13E1	
EXT REQB	6F1,	3D0,
	21F1,	13D5
	15E1	
F	2C0,	5D3,9D7,
	11D0,	11D6,
	24B5	15D0
FDEN	24G0	15D0
G	2C0,	5D3,9D7,
	11D0,	11D6,
	24B5	15D0
GRD C	17C0	13D5
GTB(0-9)( )	1B2,	1D7
	2C0,	5D3,
	11D0,	9D7,
	18D4,	11D6,
	24B5	15D0
GTG(0-9)( )	1B2,	1D7
	2C0,	5D3,
	11D0,	9D7,
	18D4	11D6,
	24B5	
H	2C0,	5D3,
	11D0,	9D7,
	24B5	11D6,
HO	11D0,	15D0
	24B5	
PSA	4C1,	
	19C1,	
	13C1	
PSB	6E1,	
	21C1,	
	15C1	3D0,
PSRA	4D1,	13D5
	19C1,	
	13C1	
PSRB	6D1,	
	21C1,	
	15C1	
QE	10A3,11D0	5D3,9D7
RBA	4E1,	
	19D1,	
	13E1	
RBB	6E1,	
	21E1,	
	15D1	
RBRA	4E1,	
	19E1,	
	13D1	
RBRB	6E1,	
	21E1,	
	15D1	
REQRETA	4F1,	3D0,
	19F1,	13D5
	13F1	
REQRETB	6F1,	
	21F1,	
	15F1	
RTA	4A1,	
	19B1,	
	13B1	
RTB	6A1,	
	21B1,	
	15B1	
RTLA	4A1,	
	19A1,	
	13A1	

DESIG	LOCATION FS	LOCATION CAD
RTS 5A CONTROL CKT (CONT)		
RTLB	6A1,	
	21A1	
	15A1	
RTLRA	4B1,	
	19A1	
	13A1	
RTLRB	6B1,	3D0,
	21A1	13D5
	15A1	
RTRA	4A1,	
	19B1	
	13B1	
RTRB	6A1,	
	21B1	
	15B1	
SC	2C0,	3D0,
	4F1,	5D3,
	11D0,	9D7,
	19G1,	11D6,
	12G1,	13D5,
	24B5	15D0
SEL	2C0,	3D0,
	8C8,	5D3,
	11D0,	9D7,
	23A8,	11D6,
	17C8,	13D5,
	24B5	15D0
TAL	2F0,	5D3,9D7,
	11D0,	15D0
	24B5	
TGTGO	2E0,	5D3,
	2F0,	9D7,
	11D0	15D0
TMB(0-9)( )	1B2,	1D7,
	2C0,	9D7,
	11B0,	11D6,
	18B4,	15D0
	24B5	
TPB	2C0,	3D0,
	8C8,	5D3,
	11D0,	9D7,
	23A8,	11D6,
	17C8,	13D5,
	24B5	15D0
Y	2C0,	3D0,
	4F1,	5D3,
	11D0,	9D7,
	19(F,G)1	11D6,
	13F1,	13D5,
	24B5	15D0

DESIG	LOCATION FS	LOCATION CAD
RTS 5A REMOTE TEST PORT		
0A-9A		
0B-2B		
A		
(AO)		
ALM1		
B		5D4
(BO)		
C		
CM1( )( )	3A4,	5B0,
	10D1,	5F0,
	12D1	9B3,
		9E3
CM2( )( )	3A4,	5B0,
	10D1,	5F0,
	12D1	9B3,
		9E3
D		5D4,
DET		5D4
E		5D4
ED( )( )	3A4,	5B0,
	10H1,	5F0,
	12H1	9B3,
		9E3

DESIG	LOCATION FS	LOCATION CAD
RTS 5A REMOTE TEST PORT (CONT)		
EL( )( )	3A4,	5B0,
	10H1,	5F0,
	12H1	9B3,
ENAB	3A4	9E3
F		
G		5D4
GTB(0-9)( )		
GTG(0-9)( )		
H		
H OR H1	3A4,	5B0,
	10H1,	5F0,
	12H1	9B3,
		9E3
HO		5D4
MD( )( )	3A4,	5B0,
	10H1,	5F0,
	12H1	9B3,
ML( )( )	3A4,	9E3
	10H1,	
	12H1	
QE( )		
(QE)		5D4
R( )( )	3A4,	5B0,
	10D1,	5F0,
	12D1	9B3,
R1( )( )	3A4,	9F3
	10D1,	
	12D1	
SC	10H1,	5B0,5F0
SEL	12H1	5D4,9B3,
		9F3
T( )( )	3A4,	5B0,
	10D1,	5F0,
	12D1	9B3
T1( )( )	3A4,	9F3
	10D1,	
	12D1	
TAL		5D4
TGTGO		
TMB(0-9)( )		
TPB		
Y		

DESIG	LOCATION FS	LOCATION CAD
SMAS NO.5B INTERFACE CKT (CONT)		
EL( )( )	3A4,	13D7
	10H1,	
	12H1,	
ENAB(A),(B)	3A4	13D7
F( )	14D0,	13D7
	16D0	
G( )	14D0,	13D7
	16D0	
H OR H1	13F8,	13D7
	15F8,	
	19F8,	
	21F8	
H OR H1( )( )	3A4,	13D7
	10H1,	
	12H1	
H( )	14D0,	13D7
	16D0	
LG		13D7
MD	14D0,	13D7
	16D0	
MD( )( )	3A4,	13D7
	10H1,	
	12H1	
ML	14D0,	13D7
	16D0	
ML( )( )	3A4,	13D7
	10H1,	
	12H1	
N( )	13F5,	13D7
	15F5	
R	14D0,	13D7
	16D0	
R( )( )	3A4,	13D7
	10D1,	
	12D1	
R1	14D0,	13D7
	16D0	
R1( )( )	3A4	13D7
	10D1,	
	12D1	
RR( )	13G4,	13D7
	15G4	
SEL	10H1,	
	12H1,	
	19G8,21G8	13D7
	13G5	
	15G5	
T	14D0,	13D7
	16D0	
T( )( )	3A4,	13D7
	10D1,	
	12D1	
T1	14D0,	13D7
	16D0	
T1( )( )	3A4,	13D7
	10D1,	
	12D1	

DESIG	LOCATION FS	LOCATION CAD
SMAS NO. 5B INTERFACE CKT		
CC( )	13F4,	13D7
	15F4	
CM1	13B8,	13D7
	15B8,	
	19A8,	
	21A8	
CM1( )( )	3A4,	
	10D1,	
	12D1	
CM2	13B8,	13D7
	15B8	
	19A8,	
	21A8	
CM2( )( )	3A4,	
	10D1,	
	12D1	
E( )	14D0,	13D7
	16D0	
ED	14D0,	13D7
	16D0	
ED( )( )	3A4,	13D7
	10H1,	
	12H1	
EL	14D0,	13D7
	16D0	

DESIG	LOCATION FS	LOCATION CAD
SPECIAL SERVICE CKT		
RA	8F4,	8D0,
RB	8F9	8D5
	8F4,	
	8F9	
RC	8F9	8D5
TA	8F4,	8D0,
TB	8F9	8D5
TC	8F9	8D5

DESIG	LOCATION FS	LOCATION CAD
TELEMETRY CKT		
SI	9C3	
SIR	9E3	

DESIG	LOCATION FS	LOCATION CAD
TERMINATE AND LEAVE CKT		
-48(0-H)	2C3	
25		
26		
27		
28		
A	2C3	
ALM1	2C3	
ALM2	2C3	
ALM2R	2C3	
B	2C3	
C	2C3	
CM1	3D9	
CM2	3D9	
D	2C3	
DET	2F3	
E	2C3	
ED	3D9	
EL	3D9	
F	2C3	
FGB		6D3
G	2C3	
GRD	2C3	
GTB	2F3	
GTG	2C3	
H	2C3	
H OR H1	3D9	
HO	2C3	
LO		
MB	2C3	
MD	3D9	
ML	3D9	
R	3D9	
R1	3D9	
SC	2C3	
SEL	2C3	
SGB		
T	3D9	
T1	3D9	
TAL	2F3	
TPB	2C3	
Y	2C3	

DESIG	LOCATION FS	LOCATION CAD
TEST ACCESS TRK CONN CKT		
A	11B3	
ALM1	11C3	11D0
B	11B3	
C	11B3	
CM1( )( )	10D2	9B0, 9E0
CM2( )( )	10D2	9B0, 9E0
D	11B3	
DET	11H3	11D0
E	11B3	
ED( )( )	10D2	
EL( )( )	10D2	9B0,
ENAB	10D2	9E0
F	11B3	
G	11B3	
GTB(0-9)	11H1	11D0
GTG(0-9)	11G3	
H	11B3	
H OR H1( )( )	10D2	9B0, 9E0
HO	11C3	11D0
MD( )( )	10D2	9B0,
ML( )( )	10D2	9E0
QE	11H1	
R( )( )	10D2	9B0,
R1( )( )	10D2	9E0
SC	11C3	11D0
SEL	11B3	
T( )( )	10D2	9B0,
T1( )( )	10D2	9E0
TAL	11H3	
TGTGO	11G3	
TMB(0-9)	11H1	11D0
TPB	11H1	
Y	11C3	

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT		DWG SIZE 6S	ISSUE 14B
BELL LABORATORIES	SD-1P106-01		-A4A

LEAD INDEX (CONT)

DESIG	LOCATION FS	LOCATION CAD
TYPE 2 MAINTENANCE CONNECTOR		
-48(D-H)	8D5	6D3
A	8E5	
ALM1	8F5	
ALM2	8E5	
ALM2R	8E5	
B	8E5	
C	8E5	
CM1	8H5	
CM2	8H5	
D	8E5	
E	8F5	
ED	8G5	
EL	8G5	
F	8F5	
G	8F5	
GRD	8D5	
GTB	8E5	
GTG	8F5	
H	8F5	
H OR H1	8H5	
HO	8G5	
MB	8D5	
MD	8H5	
ML	8G3	
R	6G5	
R1	8G5	
SC	8F5, 19H0	
SEL	8F5	
T	8G5	
T1	8G5	
TPB	8E5	
Y	8F5, 19H0	

DESIG	LOCATION FS	LOCATION CAD
UNITIZED FACILITY TERM.		
E	8F9	
M	8F9	
R	8F9	
R1	8F9	
T	8F9	
T1	8F9	

(FOR INFO ONLY)

TYPE 3 MAINTENANCE CONNECTOR		
-48(D-H)	8D0	6D3
A	8E0	
ALM1	8F0	
ALM2	8E0	
ALM2R	8E0	
B	8E0	
C	8E0	
CM1	8H0	
CM2	8H0	
D	8E0	
E	8F0	
ED	8G0	
EL	8G0	
F	8F0	
G	8F0	
GRD	8D0	
GTB	8E0	
GTG	8F0	
H	8F0	
H OR H1	8H0	
HO	8G0	
MB	8D0	
MD	8H0	
ML	8G0	
R	8G0	
R1	8G0	
SC	8F0, 19H0	
SEL	8F0	
T	8G0	
T1	8G0	
TPB	8E0	
Y	8F0, 19H0	

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT

DWG SIZE 6S | ISSUE 14B

BELL LABORATORIES | SD-1P106-01 | -448

PRINTED IN U.S.A.

OPTION INDEX

APP OR WRG	RATED ON ISSUE	REF NOTES	LOCATION
18			13A8,15A8,25A6
Z	STD 1		8A2,23G3 CAD 10,42
Y	STD 1		APP FIG. 7, 8B2,23G3, CAD 10,42
X	STD 1		APP FIG. 8, 8B3,23G3, CAD 10,42
W	STD 1		APP FIG. 6, 9, SHEET B1,B2,B3,B4, 5D0,SHEET B6,7D0, SHEET B8,10A4, 11(A-E)0, R18,B19,B21,B23 CAD 3,4,6,9,10,23,28 42
V	STD 1		APP FIG.6,SHEET B1,4A0, 4G1,4G2,4H1,4H2,6A1, SHEET B8,10A4,11C0, 11(B-G)3,SHEET 18,19A0, 21A0,23B2,23C0,24A0 CAD 3,7,10,22,23,28
T	STD 1		APP FIG. 13,14 SHEET B3, 4A9,4B9,4F9,5E0,6A9, 6B9,6F9,7D0,10A4,11A1, 11H3,13A8,13F8,14D0, 15A8,15F8,16D0,19A8, 19F8,19G8,20D0,21A8, 21F8,21G8,22D0
S	STD 6B		APP FIG. 3, 10, SHEET B(4-7)19A4, 20A4,21A3,22A4,CAD 1,2,4,5,7,9,10
R	MD 6B		SHEET B4-B7 CAD 10
Q	STD 1		APP FIG. 14, SHEET B3,4A9,4B9,4F9, 5D0,6A9,6B9,6F9, 6(B,C,G)3,7D0,10C6, 10H3,12A3,13A8,13F8, 14D0,15A8,15F8,16D0, 19A8,19F8,19G8,20D0, 21A8,21F8,21G8,22D0, CAD 24
N	STD 6B		2C1, CAD 15
M	STD 6B		2E1
K	MD 6B		8C2,8C5,8C6,23E1, 23E4,23E5,23F5 CAD 4,10
J	STD 6B		8C2,8C5,8C6,23E1, 23E4,23E5,23F5 CAD 42
G	STD 6B		CAD 12
F	STD 6B		20(B-F)6,22(B-F)6, CAD 4,10,42
E	STD 6B		14(B-F)6,16(B-F)6, 20(B-F)6,22(B-F)6, CAD 10,35,42
D	STD 6B		24A1,2446,11D0
B	MD 9AC		8C1
A	STD 9AC		APP FIG. 6, 8B3,8C1 CAD 4, 10

APP OR WRG	RATED ON ISSUE	REF NOTES	LOCATION
ZA			13A7,15A7
ZB			2F2,11H2,24G6, CAD 12,13,15,31,33
ZC			11B6,11B7,12E4,12E5 CAD 23
ZD			8C5,23E5
ZE			8C5,23E5
ZF			8D3,23E2,25F1 CAD 42
ZG			8C3,23E2
ZH			25H0, CAD 10,42

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT

	DWG SIZE	ISSUE
BELL LABORATORIES	SD-1P106-01	-A5
	6S	14B

FS1
LOCAL ACCESS CIRCUIT
(PRIOR TO ISSUE 6B)

SEL GRD 1

THOU SW SECT 1
SEL BAT. C ALL 0-9 0-9 GTB(0-9)( )

THOU SW SECT 2
SEL BAT. 1 C' ALL 0-9 0-9 TMB(0-9)( )
8C1
(W) TO 2D0 OR 11ED OR (V) RTS 5A CONTROL CKT SD-1P107-01

HUND SW
1-45 CR4 C ALL 0-9 0-9 GTG(0-9)( )

UNIT SW (SEE TABLE A)
SEL GRD C ALL 1 2 4 8
CRU1 CRU2 CRU4 CRU8
(V) TO RTS 5A CONTROL CKT SD-1P107-01

-48 C UNT1 U L 2500 CR1
-48 C UNT1S 2L 1L 640 CR2 — 12 UNT2
-48 C UNT2 U L 2500 CR3
-48 C UNT4 U L 2500 CR5
-48 C UNT8 U L 700 CR6

TABLE A

SWITCH POSITION	CKT PATH (TERMINALS)
0	NONE
1	C,1
2	C,2
3	C,1,2
4	C,4
5	C,1,4
6	C,2,4
7	C,1,2,4
8	C,8
9	C,1,8

TENS SW SECT 1
C ALL 0 1 2 3 4 5 6 7 8 9 (3A 4A 5A 6A 7A 8A 9A)
(V) TO RTS 5A CONTROL CKT SD-1P107-01

TENS SW SECT 2
C' ALL 0 1 2 3 4 5 6 7 8 9

CR24 UNT8 UNT4 UNT2 UNT1 — 0A 1A 2A A
CR25 UNT8 UNT4 UNT1 — B
CR26 UNT8 UNT4 UNT2 UNT1 — C
CR27 UNT8 UNT4 UNT2 UNT1 — D
CR28 UNT8 UNT4 UNT2 UNT1 — E
CR29 UNT8 UNT4 UNT2 UNT1S — F
UNT2 UNT1S — G
UNT1S — H

CR39 CR40 CR41 CR42 CR43

(W) 2B0 OR 11B0
(W) A-E BCS
0B 1B 2B — (V) TO RTS 5A CONTROL CKT SD-1P107-01
(W) 2C0 OR 11C0

TO ALL STAGE I DISTRIBUTION MODULE AND/OR DISTRIBUTION NET. IN SAME SMAS 5A SYSTEM

ISSUE	12A

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT

SD-1P106-01-BI

BELL TELEPHONE LABORATORIES INCORPORATED 6S

PART OF FS 2
DISTRIBUTION CIRCUIT
(SEE NOTES 108 AND 109)

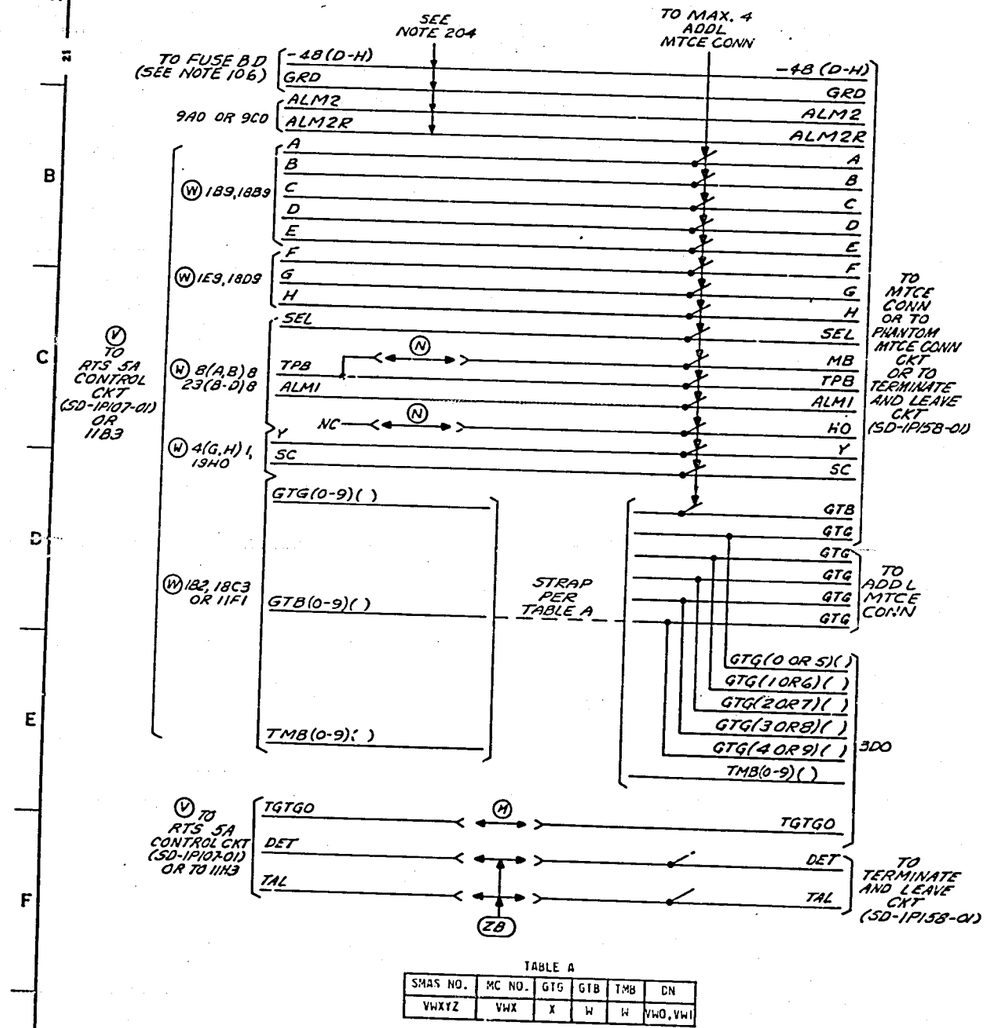
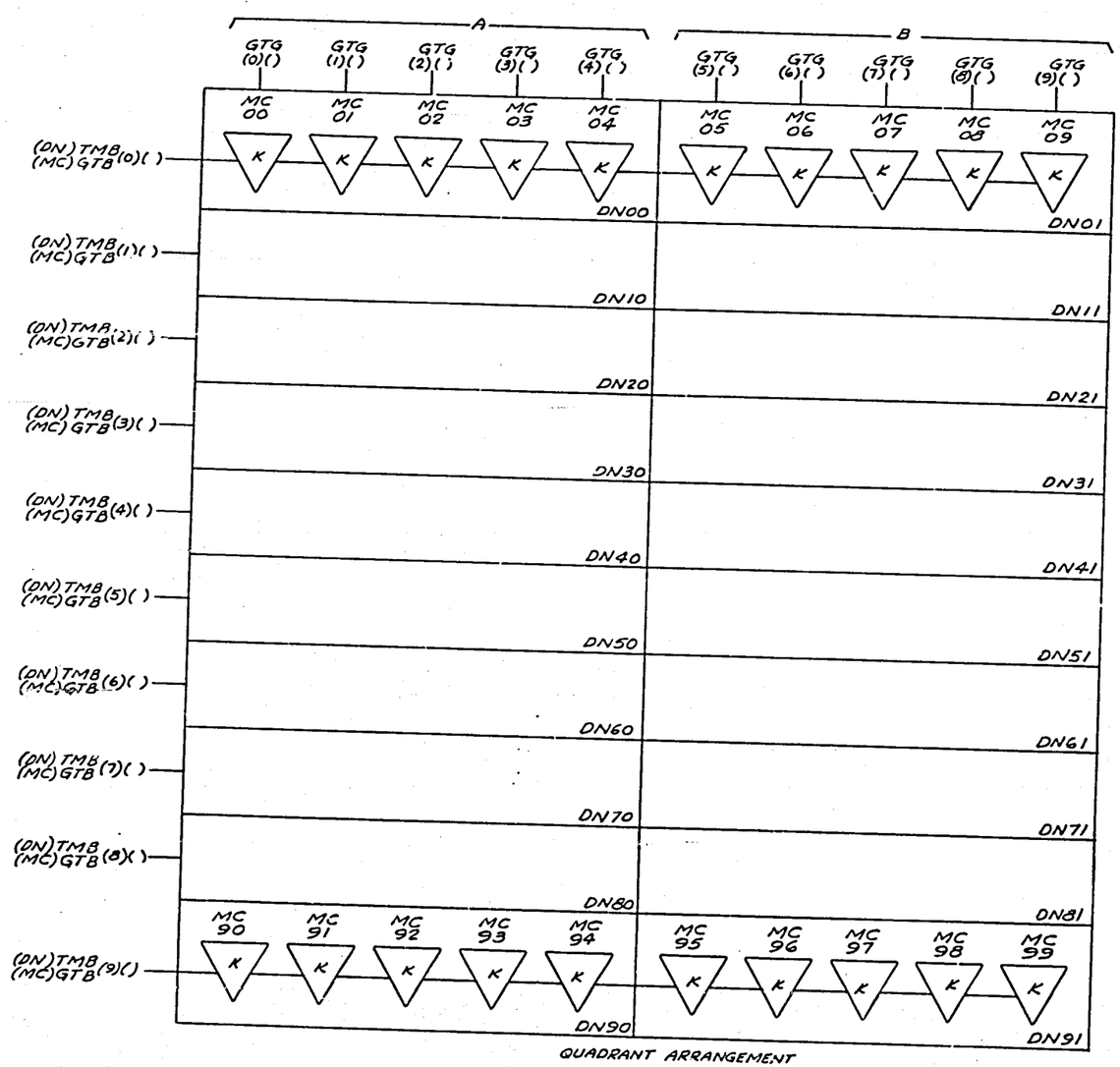


TABLE A

SMAS NO.	MC NO.	GTG	GTB	TMB	DN
VWXYZ	VWX	X	W	W	VW0, VW1



QUADRANT ARRANGEMENT

NOTES:

1. LEADS ARE IDENTIFIED BY LEAD DESIGNATION FOLLOWED BY ( ) ( ) WHERE THE FIRST ( ) IS THE VERTICAL LEVEL AND THE SECOND ( ) IS THE MODULE (i.e. T(1) (0).

ISSUE 14B

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT

SD-1P106-01-B2

BELL TELEPHONE LABORATORIES INCORPORATED

DATA SAVE 6S

PRINTED IN U.S.A.

PART OF FS2
DISTRIBUTION CIRCUIT
(SEE NOTE 109)

TO RTS SA REMOTE TEST PORT (SD-1P108-01) OR TO SMAS NO. 5B INTERFACE CKT (SD-99641-01) OR TO REMOTE MTCE LOOP CKT (SD-1P111-01) OR TO MTCE CONN CONTROL CKT (SD-1P170-01) OR TO PRECEDING FS2

TMB (0-9)( )
R1 909
CR10 ENABLE(A)
R3 909
A -48
R2 909
CR11
R4 909
B -48

(W) 4B9, 19F8 OR (T) 10D2
(W) 4A8, 19F8 OR (T) 10D2 OR (Q) 12D2
(W) 5D0 OR (T) 10D2 OR (Q) 12D2
(W) 4B8, 19A8 OR (T) 10D2 OR (Q) 12D2
(W) 6A8, 21F8 OR (T) 10D2
(W) 6B8, 21F8 OR (T) 10D2 OR (Q) 12D2
(W) 7D0 OR (T) 10D2 OR (Q) 12D2
(W) 6B8, 21A8 OR (T) 10D2 OR (Q) 12D2

H OR HI, T, R, TI, RI, EL, ML, ED, MD, CM1, CM2

K0 CR0A CR0B CR0C
K5 CR5A CR5B CR5C
2500

GTG (10E5)( )
GTG (10E6)( )
GTG (20E7)( )
GTG (30E8)( )
GTG (40E9)( )
ENAB(A) BAT.A ENAB(B) BAT.B

ALL RELAY SUFFIXES ARE 1
ALL DIODE SUFFIXES ARE 1A, 1B, 1C

ALL RELAY SUFFIXES ARE 6
ALL DIODE SUFFIXES ARE 6A, 6B, 6C

ALL RELAY SUFFIXES ARE 2
ALL DIODE SUFFIXES ARE 2A, 2B, 2C

ALL RELAY SUFFIXES ARE 7
ALL DIODE SUFFIXES ARE 7A, 7B, 7C

ALL RELAY SUFFIXES ARE 3
ALL DIODE SUFFIXES ARE 3A, 3B, 3C

ALL RELAY SUFFIXES ARE 8
ALL DIODE SUFFIXES ARE 8A, 8B, 8C

ALL RELAY SUFFIXES ARE 4
ALL DIODE SUFFIXES ARE 4A, 4B, 4C

ALL RELAY SUFFIXES ARE 9
ALL DIODE SUFFIXES ARE 9A, 9B, 9C

TO PHANTOM MTCE CONN CKT (SD-1P110-01) OR TO MTCE CONN OR TO TERMINATE AND LEAVE CKT (SD-1P158-01)

TO SUCCEEDING FS2 AS REQUIRED OR TO MAINTENANCE CONN CONTROL CKT (SD-1P170-01) OR TO REMOTE MTCE LOOP CKT (SD-1P111-01)

ISSUE 14B

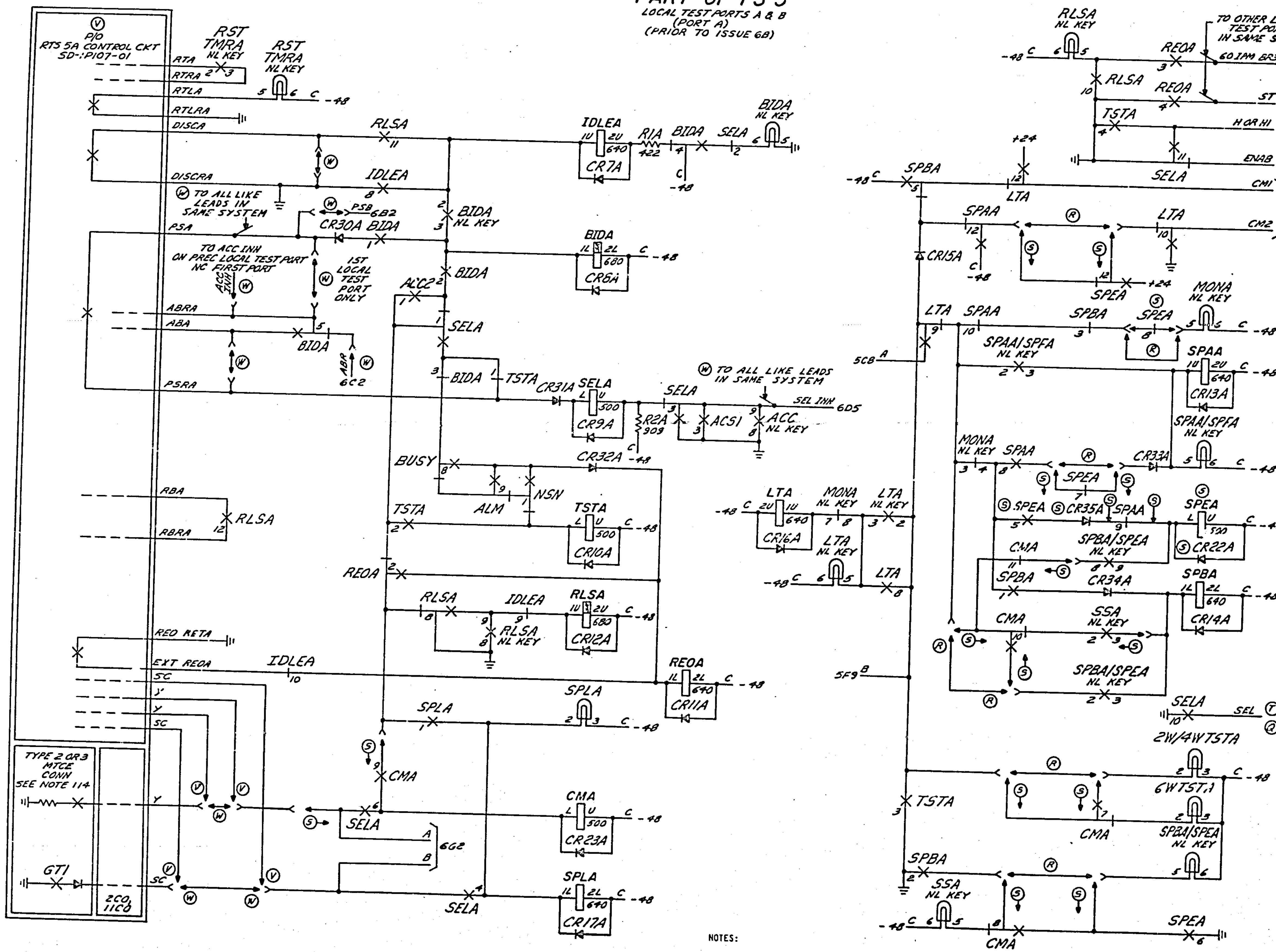
LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT

BELL TELEPHONE LABORATORIES

SD-1P106-01-B3

PART OF FS 3

LOCAL TEST PORTS A & B
(PORT A)
(PRIOR TO ISSUE 6B)



NOTES:

1. ANY TYPE OFFICE INTERRUPTER WHICH PROVIDES CLOSURE TO GROUND MAY BE CONNECTED TO THE BR3 LEAD. ST LEAD MAY BE CONNECTED TO START OFFICE INTERRUPTER AS REQUIRED.

ISSUE 12A

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT

SD-1P106-01-B4

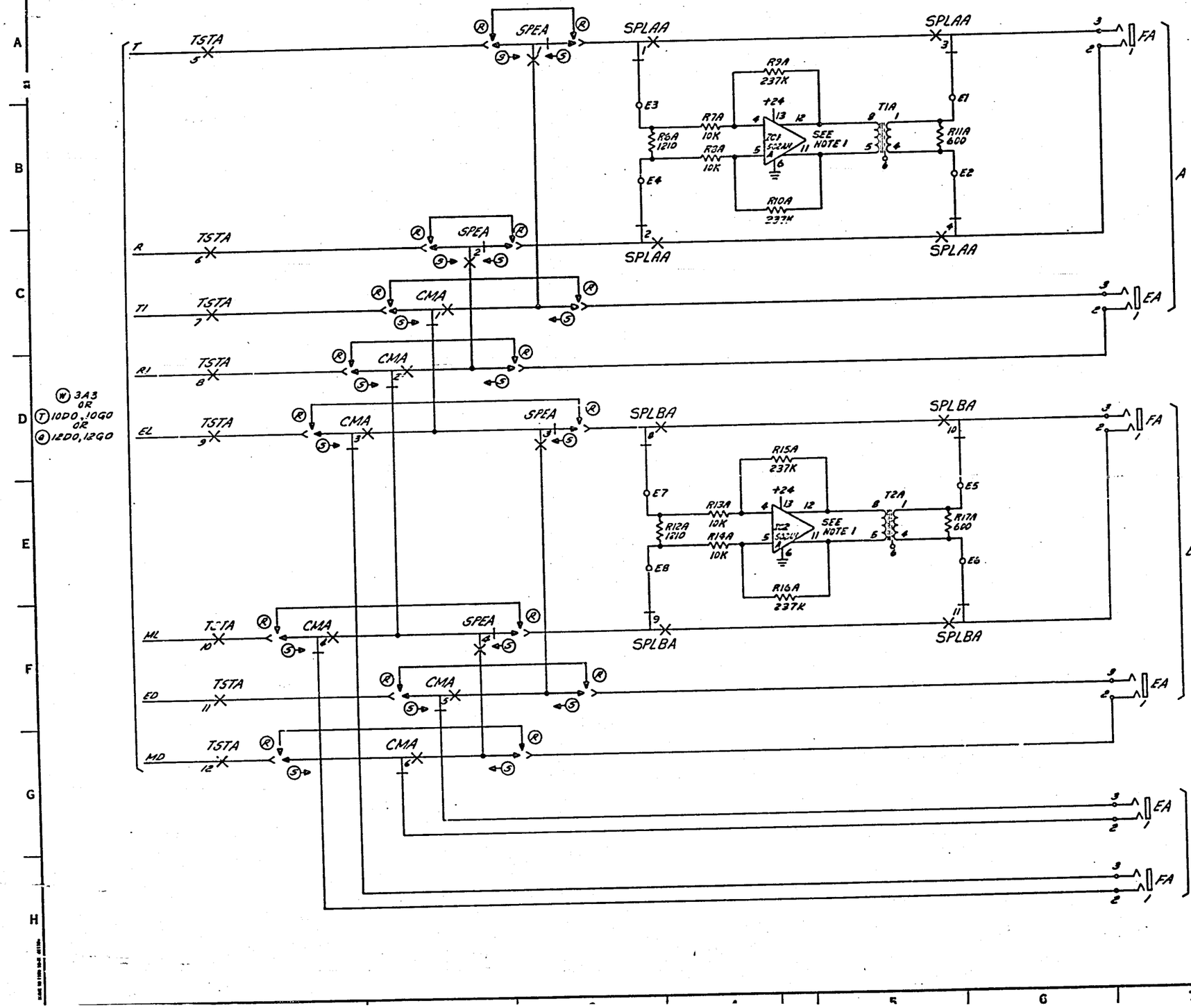
BELL TELEPHONE LABORATORIES INCORPORATED

6S

PRINTED IN U.S.A.

PART OF FS3

LOCAL TEST PORTS A & B
(PORT A)
(PRIOR TO ISSUE 6B)



PART OF FS 3

LOCAL TEST PORTS A&B (PORT B)
(PRIOR TO ISSUE 6B)

P/O RTS 5A CONTROL CKT SD-1P107-01

RST TMRB NL KEY

RTB
RTRB
RTLB
RTLRB
DISCB
DISCRB
PSB
PSRB
ABRB
ABB
RBB
RBRB
EXT REOB
REO RETB

RLSB
IDLEB
BIDB
CR30B
ACC2
SELB
TSTB
CR31B
CR9B
R22B 909
SEL INH 4D5
BUSY
NSN
ALM
CR32B
CR10B
REOB
CR12B
CR11B
SPLB
CMB
CR22B
CR17B
CR7B
RIB 422
CR8B
ABR 4D2
ACCINH
TO ACCINH ON SUCC LOCAL TEST PORT

RLSB NL KEY
REOB
TO OTHER LOCAL TEST PORTS IN SAME SYSTEM
60 IAM BR3
TO OFFICE INTERRUPTER CKT (SEE NOTE 1)
ST
TSTB
H OR HI
3A8 OR 10G1 OR 12G1
ENAB 3A5
SELB
CM1
3A9 OR 10D1 OR 12D1
SPBB
LTB
SPAB
CM2
CR15B
SPEB
MONB NL KEY
SPAB/SPFB NL KEY
CR13B
CR35B
CR22B
SPBB/SPEB NL KEY
CR34B
CR14B
SSB NL KEY
SELB
SEL
10G1 OR 12G1
2W/4W TSTB
6W TSTB
CR16B

NOTES:

1. ANY TYPE OFFICE INTERRUPTER WHICH PROVIDES CLOSURE TO GROUND MAY BE CONNECTED TO THE BR3 LEAD. ST LEAD MAY BE CONNECTED TO START OFFICE INTERRUPTER AS REQUIRED.

ISSUE 12A

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT

SD-1P106-01-B6

BELL TELEPHONE LABORATORIES INCORPORATED

6S

PART OF FS 3

LOCAL TEST PORTS A & B
(PORT B)
(PRIOR TO ISSUE 6B)

TSTB
SPEB
SPLAB
FB
R9B 237K
+24
E15
R7B 10K
R6B 1210
R8B 10K
E16
IC1 SQ2AH
SEE NOTE 1
T1B
R11B 600
E13
E14
R10B 237K
A
TSTB
SPEB
SPLAB
TSTB
CMB
EB
TSTB
CMB
W 3A7 AR
T 10DC, 10G0 OR
Q 12D0, 12G0
TSTB
CMB
SPEB
SPLBB
SPLBB
FB
R15B 237K
+24
E11
R13B 10K
R12B 1210
R14B 10K
E12
IC2 SQ2AH
SEE NOTE 1
T2B
R17B 600
E9
E10
R16B 237K
B
TSTB
CMB
SPEB
SPLBB
SPLBB
TSTB
CMB
EB
TSTB
CMB
EB
FB
S

SPAB
6C6
SPLAB
1L 2L 640
CR37B
-48
SPBB
SPEB
CMB
SPLBB
1U 2U 640
CR38B
LTB
6 FT

NOTES:

1. STRAP IC'S AS FOLLOWS:
   PIN 2 TO 3
   PIN 7 TO 8
   PIN 9 TO 10
   PIN 15 TO 16

ISSUE 4B

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT

SD-1P106-01-87

BELL TELEPHONE LABORATORIES INCORPORATED

DRG SIZE 6S

PRINTED IN U.S.A.

FS 4

LOCAL ACCESS CONTROL CKT
(PRIOR TO ISSUE 6B)

TO RTS 5A CONTROL CKT SD-1P107-01

+24
GRD (+24)
+130
GRD (+130)
-48
GRD (-48)
R5 750
CR21
24V CONV
TO FUSE BOARD

P/O RTS 5A CONTROL CKT SD-1P107-01

180 OR JACK KEY & LAMP CIRCUIT (SD-99645-01)

SEL GRD
SEL GRD 1
1-45
1-21
CR49
CR50
CR51
J,K,V
NSN BUSY ACC3

SEL BAT. 1
SEL BAT.
BUSY NSN

CA1
200 MSEC DELAY ON RELEASE
2561
DIN
DOUT
GD

ACC NL KEY
ACC1
ACC2
ACC3
SELB
SELA
CR18
CR19
CR20
CR52
CR53
W,A

ALM
BUSY
NSN
CR46
CR47
CR48
CR44
CR45
CR36
RLSB
RLSA
IC9 A-E
R3 909
R4 511
SEE NOTE 203
ZD 5, ZE 8
ZD ACC2
ZE ACC3
ZF
ZG

P/O MTCE CONN
ALM1
TPB
SEL
GT2
GT1
TM( )
-48
2CO, 11B0

P/O RTS 5A CONTROL CIRCUIT SD-1P107-01

FS 5 (MFR DISC) (SEE NOTE 2)

DISTRIBUTION - NETWORK INTERCONNECTION CKT

SEE NOTE 204

-48(D-H)
GRD
ALM2
ALM2R
TPB
GTB
A
B
C
D
E
F
G
H
SEL
ALM1
Y
SC
GTG
HO
T
R
T1
R1
EL
ML
ED
MD
CM1
CM2
HORHI

TYPE 3 MTCE CONN SD-1C605-01

SEE NOTE 2

J3
J5
J2
J6
FAC
EQPT

TO METALLIC FACILITY TERM. (SEE NOTE 1)
TO SPL SRV CKT
1ST CKT
2ND THRU 23RD CKT
24TH CKT
TO SPL SRV CKT OR MSG TRK REQUIRING ACCESS

MB

TYPE 2 MTCE CONN SD-1C454-01 (SEE NOTE 1M)

TO UNITIZED FACILITY TERM. (SEE NOTE 1)

NOTES:
1. SHOWN FOR INFORMATION ONLY.
2. FOR INTERCONNECTION INFORMATION SEE SD-1P138-01 MAINTENANCE CONNECTOR APPLICATION SCHEMATIC.

ISSUE 14B

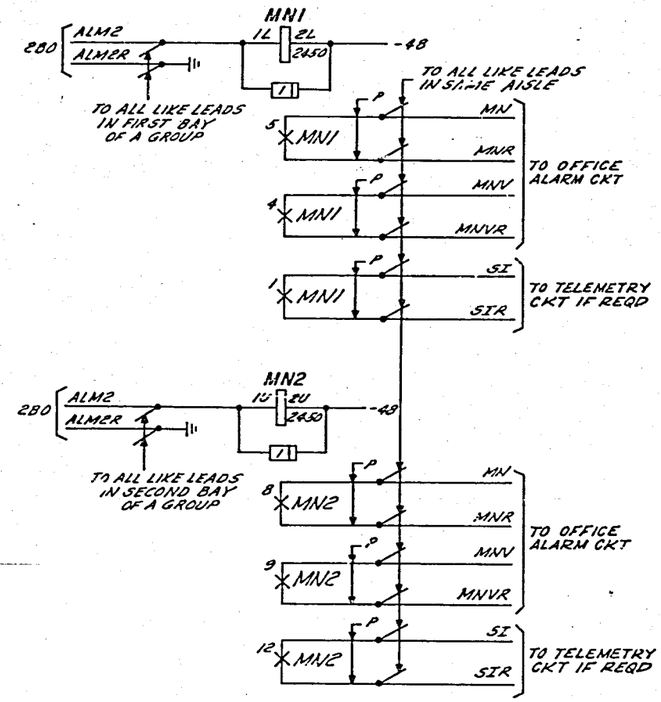
LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT

SD-1P106-01-88

BELL TELEPHONE LABORATORIES INCORPORATED

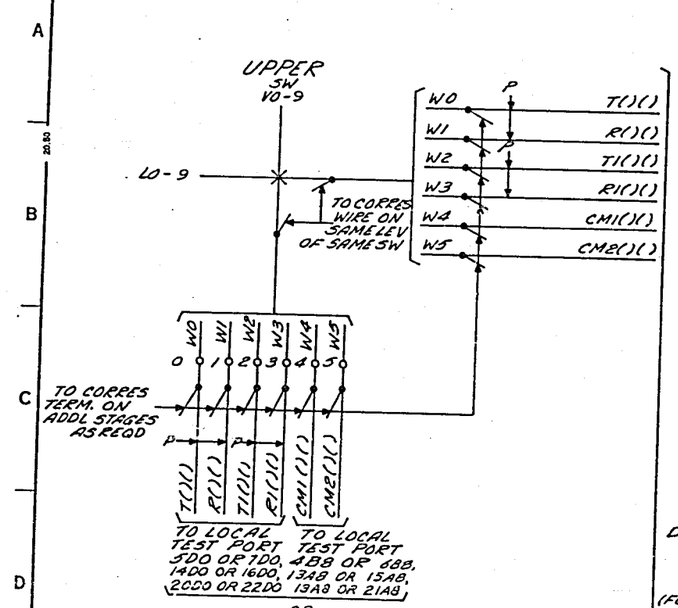
6S

FS 6
ALARM CKT

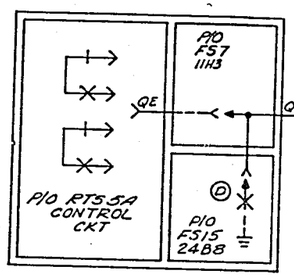


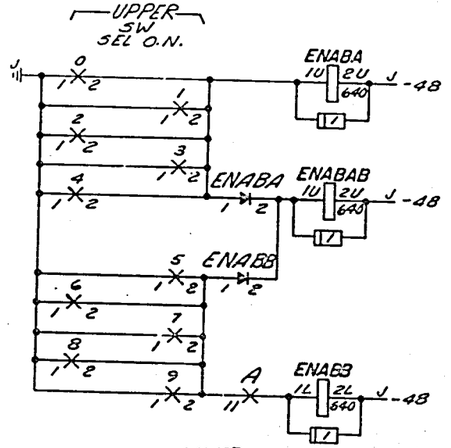
ISSUE	4B
LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT	SD-1P106-01-B9
BELL TELEPHONE LABORATORIES INCORPORATED	6S

ⓣ PART OF FS 7
STAGE ONE DISTRIBUTION MODULE (0) CIRCUIT



TO DISTRIBUTION NETWORK CORRES TO THIS LEVEL 3A(1-9) OR (FOR 53A APPLICATION) TO TEST ACCESS TRUNK CONN CKT OR TO DIGITAL TEST ACCESS CONN CKT (SD-1P177-01) OR TO MAINTENANCE CONN CONTROL CKT (SD-1P170-01) OR TO BRIDGE ADAPTER (SD-1P111-01)





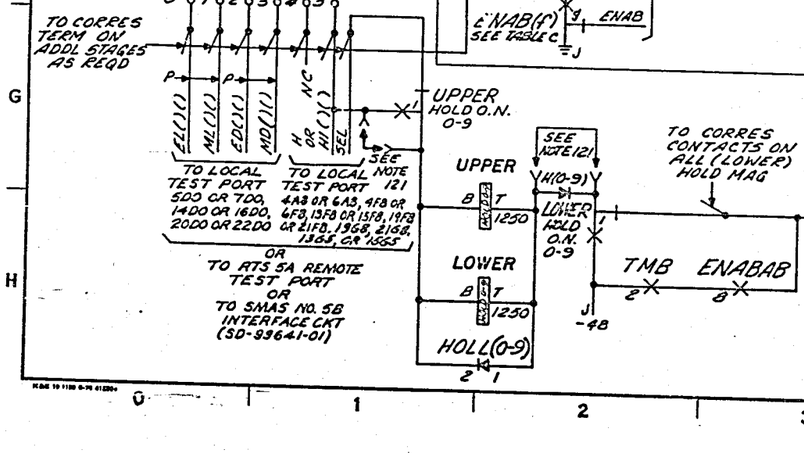


TABLE A

QE(a)	GTB(d)	SEL X LEVEL	DIST NETWORK	QE(a)	GTB(d)	SEL X LEVEL	DIST NETWORK
A	0A	0,9( )ZA	00A,01A	B	0B	0,9( )ZB	00B,01B
	1A	1,5( )ZA	10A,11A		1B	1,5( )ZB	10B,11B
	2A	2,6( )ZA	20A,21A		2B	2,6( )ZB	20B,21B
	3A	3,7( )ZA	30A,31A		3B	3,7( )ZB	30B,31B
	4A	4,8( )ZA	40A,41A		4B	4,8( )ZB	40B,41B
	5A	0,9( )YA	50A,51A		5B	0,9( )YB	50B,51B
	6A	1,5( )YA	60A,61A		6B	1,5( )YB	60B,61B
	7A	2,6( )YA	70A,71A		7B	2,6( )YB	70B,71B
	8A	3,7( )YA	80A,81A		8B	3,7( )YB	80B,81B
	9A	4,8( )YA	90A,91A		9B	4,8( )YB	90B,91B
C	0C	0,9( )ZC	00C,01C	D	0D	0,9( )ZD	00D,01D
	1C	1,5( )ZC	10C,11C		1D	1,5( )ZD	10D,11D
	2C	2,6( )ZC	20C,21C		2D	2,6( )ZD	20D,21D
	3C	3,7( )ZC	30C,31C		3D	3,7( )ZD	30D,31D
	4C	4,8( )ZC	40C,41C		4D	4,8( )ZD	40D,41D
	5C	0,9( )YC	50C,51C		5D	0,9( )YD	50D,51D
	6C	1,5( )YC	60C,61C		6D	1,5( )YD	60D,61D
	7C	2,6( )YC	70C,71C		7D	2,6( )YD	70D,71D
	8C	3,7( )YC	80C,81C		8D	3,7( )YD	80D,81D
	9C	4,8( )YC	90C,91C		9D	4,8( )YD	90D,91D

X SELECT ( ) TAKE THE SAME LABELLING AS MODULE TO WHICH THEY ARE CONNECTED.

TABLE B

LEVEL	SEL MAG	SEL MAG WINDING b	SEL MAG WINDING c
9	9	RT	RH
8	8	RH	RT
7	7	LH	LT
6	6	LT	LH
5	5	RT	RH
4	4	RH	RT
3	3	LH	LT
2	2	LT	LH
1	1	RT	RH
0	0	RH	RT

TABLE C

LEVEL	(f) RELAY DESIG	(g) CONTACT NO.
9	B	c
8	B	4
7	B	3
6	B	2
5	B	1
4	A	12
3	A	11
2	A	10
1	A	9
0	A	8

NOTES:

1. QUADRANTS FOR SMAS 5A AND FOR THE MAINTENANCE CONNECTOR NETWORK OF SMAS 5B ARE LABELLED A THROUGH D. SYSTEMS THAT REQUIRE MORE THAN 400 MAINTENANCE CONNECTORS ARE ORGANIZED INTO FIRST DIGIT GROUPS, IDENTIFIED BY THE MOST SIGNIFICANT DIGIT OF THE 5 DIGIT SMAS NUMBER. FOR MAINTENANCE CONNECTOR ACCESS, THIS DIGIT IS RESTRICTED TO THE VALUES 5,6,7, OR 8, AND IT IDENTIFIES A FIRST DIGIT GROUP OF FOUR QUADRANTS WITH ASSIGNMENTS A,B,C,D AS INDICATED IN TABLE A.
2. STAGE ONE DISTRIBUTION PANELS, DISTRIBUTION NETWORK PANELS, AND MAINTENANCE CONNECTORS ARE IDENTIFIED WITH A PREFIX DETERMINED BY THE FIRST DIGIT GROUP (IE MOST SIGNIFICANT DIGIT OF SMAS NUMBER).
   e.g. STDP 50ZA
   DNP 500A
   MC 50JA
3. LEADS ARE IDENTIFIED BY LEAD DESIGNATION FOLLOWED BY ( ) ( ) WHERE THE FIRST ( ) IS THE VERTICAL LEVEL AND THE SECOND ( ) IS T E MODULE (i.e. T(1) (0).
4. OUTPUT LEADS ARE IDENTIFIED BY LEAD DESIGNATION FOLLOWED BY ( ) ( ) WHERE THE FIRST ( ) IS THE HORIZONTAL LEVEL AND THE SECOND ( ) IS THE DISTRIBUTING NETWORK (i.e. T(0) (00A).

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT	DWG SIZE 6S	ISSUE 14B
BELL LABORATORIES	SD-1P100-01	SHT

TO SUCCEEDING STAGE ONE DISTRIBUTION MODULE(O) IN SAME QUADRANT OR AUXILIARY NETWORK SD-1P166-01 SEE NOTE 2

ⓣ PART OF FS 7
STAGE ONE DISTRIBUTION MODULE(O) CIRCUIT

A
B
C
D
E
F
G
H
SEL
TPB
ALM1
Y
SC
HO

ⓥ DISTRIBUTION NETWORK 2(B,C)1O OR (FOR 53A APPLICATION) TO TEST ACCESS TRUNK CONNECTOR (SD-1P163-01) OR TO DIGITAL TEST ACCESS CONNECTOR CKT (SD-1P177-01) OR TO MAINTENANCE CONNECTOR CONTROL CKT (SD-1P170-01) OR TO REMOTE MTCE LOOP CKT (SD-1P111-01)

ⓦ 189, 1E9 1B89, 1B09

ⓦ 8(A,B)8, 23(B-D)8

ⓦ 4(G,H)1, 19H1

TPB → A 10, B 3 → J

ⓥ DISTRIBUTION NETWORK 2(C,D)O OR (FOR 53A APPLICATION) TO TEST ACCESS TRUNK CONNECTOR (SD-1P163-01) OR TO DIGITAL TEST ACCESS CONNECTOR CKT (SD-1P177-01) OR TO MAINTENANCE CONNECTOR CONTROL CKT (SD-1P170-01) OR TO REMOTE MTCE LOOP CKT (SD-1P111-01)

TO PRECEDING STAGE ONE DISTV MODULE(O) IN SAME QUADRANT OR ⓥ TO RTS SA CONTROL CIRCUIT (SD-1P107-01) OR Ⓓ 24B8

GTB0( )
GTB1( )
GTB2( )
GTB3( )
GTB4( )
GTB5( )
GTB6( )
GTB7( )
GTB8( )
GTB9( )

ⓦ 182, 18C3

STRAP PER TABLE A CAD 23

CR0D
CR1D
CR2D
CR3D
CR4D
GTB 10G7
GTB(d)
GTB(d)
GTB(d)
GTB(d)
GTB(d)
10A6 AS REQD BY TABLE A (SH B10)

CR5D
CR6D
CR7D
CR8D
CR9D
TMB → TO ALL LIKE LEADS IN SAME SYS
TMB 2L 1L 640 1 J

TMB0( )
TMB1( )
TMB2( )
TMB3( )
TMB4( )
TMB5( )
TMB6( )
TMB7( )
TMB8( )
TMB9( )

GTG0( ) … GTG9( )
TGTG0
QE

ⓥ DISTRIBUTION NETWORK 2(D-F)1O OR (FOR 53A APPLICATION) TO TEST ACCESS TRUNK CONNECTOR (SD-1P163-01) OR TO DIGITAL TEST ACCESS CONNECTOR CKT (SD-1P177-01) OR TO MAINTENANCE CONNECTOR CONTROL CKT (SD-1P170-01) OR TO REMOTE MTCE LOOP CKT (SD-1P111-01)

ⓥ 10A4

DET
TAL
ZB

TO DISTRIBUTION NETWORK 2(C-D)O (FOR 53A APPLICATION) TO TEST ACCESS TRUNK CONNECTOR (SD-1P163-01) OR TO DIGITAL TEST ACCESS CONNECTOR CKT (SD-1P177-01) OR TO MAINTENANCE CONNECTOR CONTROL CKT (SD-1P170-01) OR TO REMOTE MTCE LOOP CKT (SD-1P111-01)

TO DISTRIBUTION NETWORK 2F0 OR (FOR 53A APPLICATION) TO TEST ACCESS TRUNK CONNECTOR (SD-1P163-01) OR TO DIGITAL TEST ACCESS CONNECTOR CKT (SD-1P177-01) OR TO MAINTENANCE CONNECTOR CONTROL CKT (SD-1P170-01) OR TO REMOTE MTCE LOOP CKT (SD-1P111-01)

LOWER HOLD O.N. 0-9

ZC → 3 → ZC HLD(0:9) → 1250 → -48

AUXILIARY NETWORK FOR USE WITH 53A TST POS SD-1P166-01

NOTE:

1. GTB AND TMB( ) TAKE THE SAME LABELING AS QUADRANT TO WHICH THEY ARE ASSIGNED.
2. FOR THE 53A TEST POSITION APPLICATION, THE LEADS MULTIPLE TO EITHER A SUCCEEDING SIDN MODULE(O) IN THE SAME QUADRANT IF THERE IS ONE OR TO AUXILIARY NETWORK SD-1P166-01.

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT		
	DWG SIZE 6S	ISSUE 14B
BELL LABORATORIES	SD-1P106-01	-611

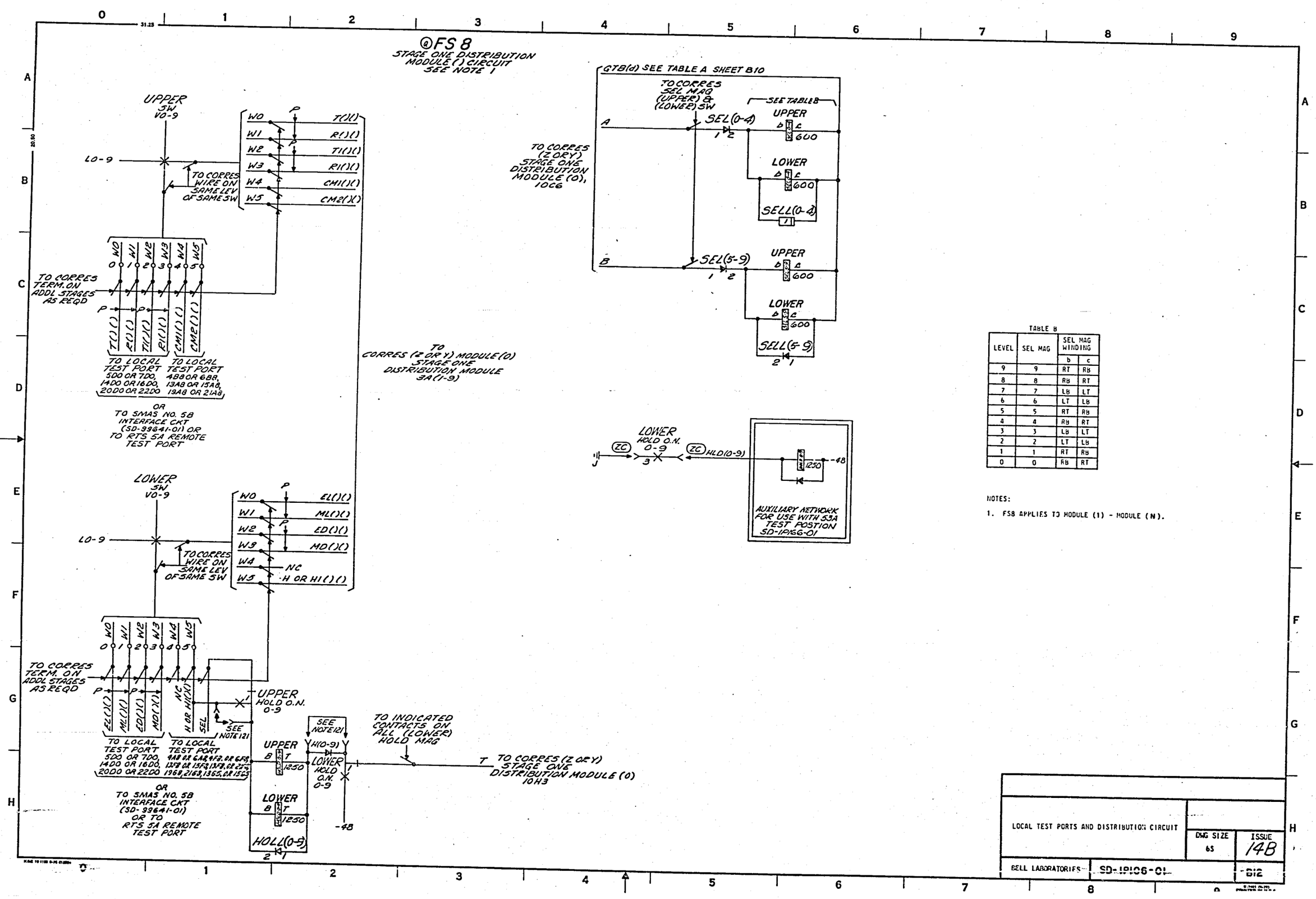


TABLE B

LEVEL	SEL MAG	SEL MAG WINDING b	SEL MAG WINDING c
9	9	RT	RB
8	8	RB	RT
7	7	LB	LT
6	6	LT	LB
5	5	RT	RB
4	4	RB	RT
3	3	LB	LT
2	2	LT	LB
1	1	RT	RB
0	0	RB	RT

NOTES:

1. FS8 APPLIES TO MODULE (1) - MODULE (N).

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT

DWG SIZE 6S

ISSUE 14B

BELL LABORATORIES SD-1P106-01 D12

PART OF FS9

LOCAL TEST PORTS A&B (PORT A)
(J1P033AK, J993S9AP)

RTS 5A CONTROL CIRCUIT (SD-1P107-01)

JACK, KEY, & LAMP CIRCUIT (SD-99645-01)

JACK, KEY, & LAMP CIRCUIT (SD-99645-01)

RTLRA
RTLA
RTA
RTRA
DISCA
DISCRA
PSA
PSRA
ABA
ABRA
RBA
RBRA
SC
DFR
DF
RLSA
IDLEA
BIDA
SELA
TSTA
BUSY
ALM
NSN
ACC2
DFIA
DFA
CRIA
CR2A
CR3A
CR15A
CR14A
EXT REOA
REOA
REORETA
SPLA
CMA
RIA 422
2W/4WA
6WA
SPBA/SPEA
SSA
RST TMRA
RST TMRA KEY
BIDA KEY
LTA
LTA KEY
MONA
MONA KEY
RLSA KEY
SPBA
SPAA
SPEA
CR4A
CM1
CM2
TO (T) 10D1 OR (Q) 12D1 OR TO SMAS NO. 5B INTERFACE CKT (SD-99641-01)
CR5A
CP6A
CR7A
SPAA/SPAA/SPEA/SPEA KEY
SPBA/SPEA KEY
SPBA/SPEA/SSA KEY
HORN1
TO (T) 10G1 OR (Q) 12G1 OR TO SMAS NO. 5B INTERFACE CKT (SD-99641-01)
TO OFFICE INTERRUPTER CKT (SEE NOTE 1)
60IPMBR3
TO OTHER LOCAL TEST PORT IN SAME SYSTEM
SMAS NO. 5B INTERFACE CKT (SD-99641-01)
DFI 6W
TO SMAS NO 5B INTERFACE CKT (SD-99641-00 OR TO 10B1 OR 12G1
15G1

NOTES:

1. ANY TYPE OFFICE INTERRUPTER WHICH PROVIDES CLOSURE TO GROUND MAY BE CONNECTED TO THE 8R3 LEAD. ST LEAD MAY BE CONNECTED TO START OFFICE INTERRUPTER AS REQUIRED.

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT	DWG SIZE 6S	ISSUE 12A
BELL LABORATORIES	SD-1P108-01	SHEET 813

PART OF FS 9

LOCAL TEST PORTS A & B
(PORT A)
(SEE NOTE 206)
(J1P033AK, J99359AP)

TSTA SPEA SPLAA DFIA R9A 237K +24 R7A 10K R8A 10K R10A 237K IC1A 502AH SEE NOTE 1 T1A R11A 600 E3 E4 E1 E2 E

TSTA SPEA DFIA SPLAA

TSTA CMA DFIA

TSTA CMA DFIA

TSTA SPEA SPLBA DFIA R15A 237K R13A 10K R14A 10K R16A 237K IC2A 502AH SEE NOTE 1 T2A R17A 600 E7 E8 E5 E6

TSTA CMA SPEA DFIA SPLBA

TSTA CMA DFIA

TSTA CMA DFIA

TSTA CMA DFIA

JACK, KEY, AND LAMP CKT (SD-99645-01)

2-26 2-1 1-23 2-27 2-2 1-48 2-28 2-3 1-24 2-29 2-4 1-49 2-31 2-6 2-30 2-5

A B S

TO 1000, 1060 OR 1200, 1260 OR TO SMAS NO. 5B INTERFACE CKT

1306

SPLAA SPAA SPBA CMA SPEA LTA SPLBA 1L 2L 640 1U 2U 640

NOTES:

1. STRAP INTEGRATED CIRCUITS AS FOLLOWS:

   PIN 2 TO PIN 3
   PIN 7 TO PIN 8
   PIN 9 TO PIN 10
   PIN 15 TO PIN 16

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT	DWG SIZE 6S	ISSUE 14B
BELL LABORATORIES	SD-1P106-01	-B14

PART OF FS9

LOCAL TEST PORTS A&B (PORT B)
(UIP033AH, U99359AP)

RTS SR CONTROL CIRCUIT (SD-1P107-01)

JACK, KEY, & LAMP CIRCUIT (SD-99645-01)

JACK, KEY, & LAMP CIRCUIT (SD-99645-01)

RTLRB
RTLB
RTB
RTRB
DISCB
DISCRB
PSB
PSRB
ABB
ABRB
RBB
RBRB
BUSY
TSTB
NSN
ALM
RLSB
IDLEB
BIDB
SELB
ACC2
DFIB
DFB
CRIB
CR2B
CR3B
CRISB
CR4B
EXT REOB
REORETB
REOB
SPLB
CMB
SELB
RST TMRB KEY
BIDB KEY
MONB KEY
2W/4WB
6WB
SPBB/SPEB
SSB
RLSB KEY
SMAS NO.5B INTERFACE CKT (SD-99641-01)
DF1
6W
CC( )
RR( )
N( )
SEL( )
TO SMAS NO 5B INTERFACE CKT (SD-99641-01) IF PROVIDED OR TO 10G1 OR 12G1
13G1
RST TMRB
LTB
SPAB
SPBB
SPEB
CM1
CM2
CR4B
16C8
CRSB
CR6B
CR7B
MONB
SPAB/SPEB KEY
SPBB/SPEB KEY
SSB KEY
25F5
TO (T) 10DI OR (Q) 12DI OR TO SMAS NO. 5B INTERFACE CKT (SD-99641-01)
H OR HI
TO (T) 10G1 OR (Q) 12G1 OR TO SMAS NO.5B INTERFACE CKT (SD-99641-01)
1704
TO OFFICE INTERRUPTER CKT (SEE NOTE 1)
60IPMBR3
TO OTHER LOCAL TEST PORT IN SAME SYSTEM

NOTES:

1. ANY TYPE OFFICE INTERRUPTER WHICH PROVIDES CLOSURE TO GROUND MAY BE CONNECTED TO THE BR3 LEAD. ST LEAD MAY BE CONNECTED TO START OFFICE INTERRUPTER AS REQUIRED.

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT	DWG SIZE 6S	ISSUE 12A
BELL LABORATORIES	SD-1P106-01	-B15

PART OF FS 9

LOCAL TEST PORTS A & B (PORT B) (SEE NOTE 206) (J1P033AK, J99359AP)

TSTB SPEB SPLAB DFIB R9B 237K E15 R7B 10K R6B 1210 R8B 10K E16 IC1B 502AH SEE NOTE 1 T1B R11B 600 R10B 237K E13 E14 SPLAB

TSTB SPEB DFIB SPLAB

TSTB CMB DFIB

TSTB CMB DFIB

TSTB CMB SPEB DFIB SPLBB R15B 237K E11 R13B 10K R12B 1210 R14B 10K R16B 237K IC2B 502AH SEE NOTE 1 T2B R17B 600 E9 E12 E10 SPLBB

TSTB CMB SPEB DFIB SPLBB

TSTB CMB SPEB DFIB

TSTB CMB DFIB

TO ⑦ 1060, 1040 OR ⑧ 1200, 1240 OR TO SWAS NO.38 INTERFACE CKT (SD-99641-01)

JACK, KEY, AND LAMP CKT (SD-99645-01)

1-26 1-1 1-20 F

1-27 1-2 1-46 E

1-28 1-3 1-22 F

1-29 1-4 1-47 E

1-31 1-6 E

1-30 1-5 F

A B S

SPLAB SPAB SPBB CMB SPEB LTB SPLBB 1SC6

NOTES:

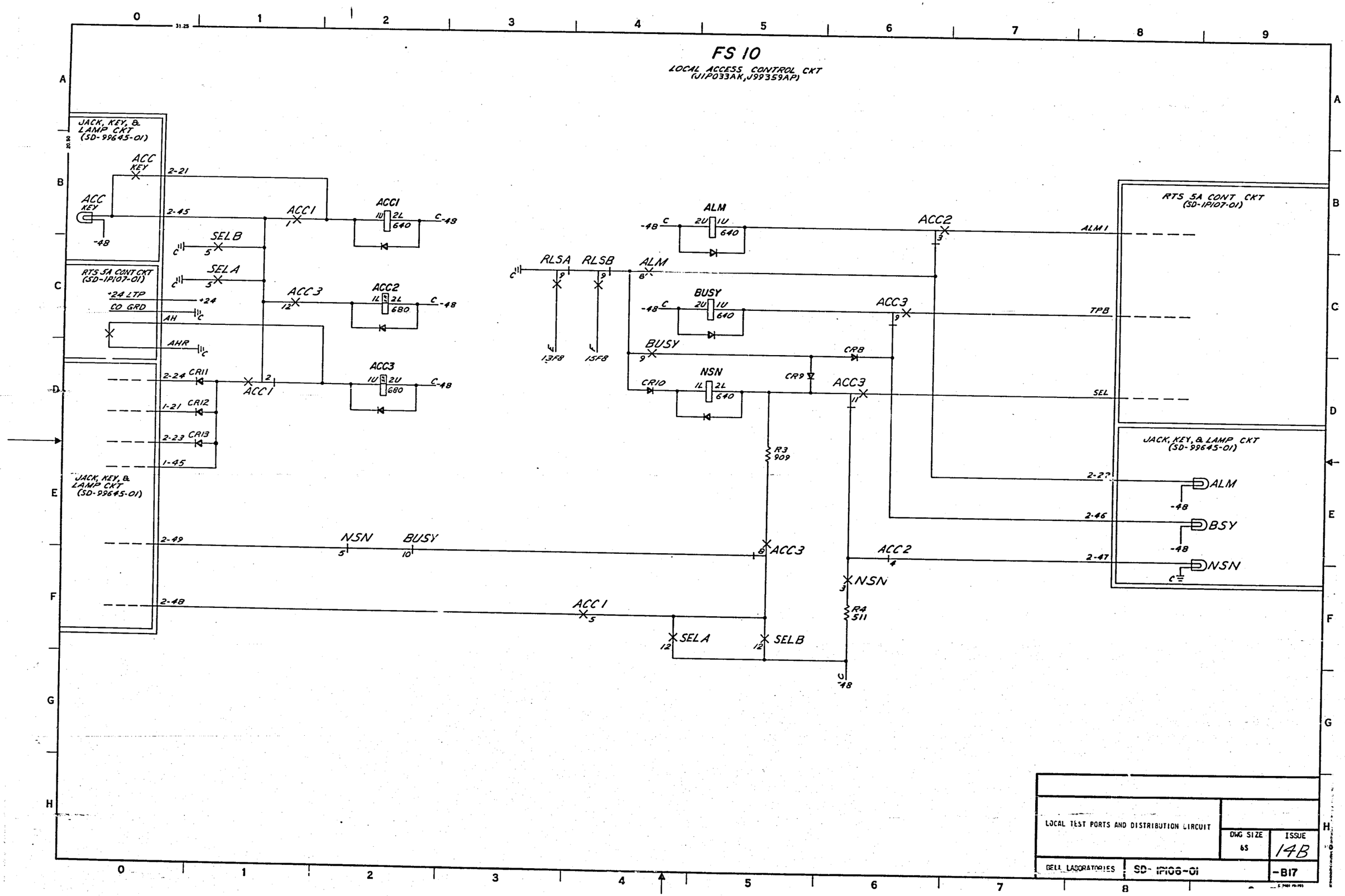
1. STRAP INTEGRATED CIRCUITS AS FOLLOWS:

   PIN 2 TO PIN 3
   PIN 7 TO PIN 8
   PIN 9 TO PIN 10
   PIN 15 TO PIN 16

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT	DWG SIZE 6S	ISSUE 14B
BELL LABORATORIES	SD-1P106-01	SIG

FS 10

LOCAL ACCESS CONTROL CKT
(UIP033AK, J99359AP)



LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT		
	DWG SIZE 6S	ISSUE 14B
BELL LABORATORIES	SD- 1P106-01	-817

JACK, KEY, & LAMP CKT
SD-99645-01

SEL GRD1 2-24

TEN THOU SW (S5)
1-21 1-21 C ALL
1 1 15 5-26
2 2 16 5-27
4 4 17 5-28
8 8 18 5-29
Ⓥ RTS 5A CONT CKT (SD-1P107-01)

THOU SW SECT 1 (S4)
SEL BAT 2-48 C ALL 0-9 0-9 3-(1-10)
Ⓦ GTB (0-9)( )

THOU SW SECT 2 (S4)
SEL BAT1 2-49 C' ALL 0'-9' 0'-9' 3-(26-35)
Ⓦ TMB (0-9)( )

HUND SW (S3)
1-45 1-45 CR4 C ALL 0-9 0-9 3-(11-20)
Ⓦ GTG (0-9)( )

Ⓦ 200 OR 1IEO OR TO MTCE CONN CONTROL CKT (SD-1P170-01)

GTB(0-9)( )
TMB(0-9)( )
GTG(0-9)( )
Ⓥ RTS 5A CONT CKT (SD-1P107-01)

UNIT SW (S1)
SEL GRD 2-23 C ALL
1,3,5,7,9 1 11 3-21
2,3,6,7 2 12 3-22
4,5,6,7 4 13 3-23
8,9 8 14 3-24
1 2 4 8

TENS SW SECT 1 (S2)
C ALL
0 0 3-36 3-36
1 1 3-37 3-37
2 2 3-38 3-38
3 3 3-39 3A
4 4 3-40 4A
5 5 3-41 5A
6 6 3-42 6A
7 7 3-43 7A
8 8 3-44 8A
9 9 3-45 9A
Ⓥ RTS 5A CONT CKT (SD-1P107-01)

TENS SW SECT 2 (S2)
C' ALL
0' 0' 3-46
1' 1' 3-47
2' 2' 3-48
3' 3'
4' 4'
5' 5'
6' 6'
7' 7'
8' 8'
9' 9'

UNT1 -48 C U L 2500 CR1
UNT1S -48 C 2L 1L 640 CR2
UNT2 -48 C U L 2500 CR3
UNT4 -48 C U L 2500 CR5
UNT8 -48 C U L 700 CR6

TABLE A

SWITCH POSITION	CKT PATH (TERMINALS)
0	NONE
1	C,1
2	C,2
3	C,1,2
4	C,4
5	C,1,4
6	C,2,4
7	C,1,2,4
8	C,8
9	C,1,8

FS II
LOCAL ACCESS CIRCUIT
(SEE NOTE 116 & 209)
(JIP033AC, J99359AP)

Ⓥ TO RTS 5A CONT CKT (SD-1P107-01)
0A
1A
2A

CR24 UNT8 UNT4 UNT2 UNT1
CR25 UNT8 UNT4 UNT1
CR26 UNT8 UNT4 UNT2 UNT1
CR27 UNT8 UNT4 UNT2 UNT1
CR28 UNT8 UNT4 UNT2 UNT1
UNT2 UNT1
UNT1
CR29 UNT8 UNT4 UNT2 UNT1S
UNT1S
UNT2 UNT1S

CR39 CR40 CR41 CR42 CR43
A B C D E
A-E Ⓦ 23D3

Ⓦ 200 OR 1IBO OR TO MTCE CONN CONTROL CKT (SD-1P170-01)
F G H

TO ALL STAGE I DISTRIBUTION MODULES OR DISTRIBUTION NETWORKS OR MAINTENANCE CONN CONTROL CKTS (SEE NOTE 126)

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT

BELL LABORATORIES	SD-1P106-01	DWG SIZE 6S	ISSUE 14B

-B18

Ⓢ PART OF FS12
LOCAL TEST PORTS A & B
(PORT A)
(J1P033AC, J99259AP)
(SEE NOTE 116, 206 & 209)

Ⓥ RTS 5A CONTROL CIRCUIT (SD-1P107-01)

JACK, KEY, & LAMP CIRCUIT (SD-99645-01)

RTLRA
RTLA
RTA
RTRA
DISCA
DISCRA
PSA
PSRA
ABA
ABRA
RBA
RBRA
EXT REOA
REOARETA
Y
SC
GTI

RLSA
IDLEA
BIDA
SELA
TSTA
BUSY
ALM
NSN
REOA
CMA
SPLA
ACC
2W/4WA
6WA
SPBA/SPEA
SSA
RST TMRA
LTA
MONA
SPAA
SPEA
SPBA
CR30A
CR31A
CR9A
CR8A
CR13A
CR16A
CR15A
CR33A
CR35A
CR22A
CR34A
CR14A
CR32A
CR10A
CR12A
CR11A
CR23A
CR17A
RIA 422
RZA 909

TO ALL 8 LIKE LEADS IN SAME SYS
1ST LOCAL LTP ONLY
ABR 2101
ACCINH
TO ACCINH ON PREC LTP (NC ON 1ST PORT)
TO ALL LIKE LEADS IN SAME SYS
SELINH 21C3
PSB 21C1
21HO
200,1C0 OR TO MTCE CONN CONT CKT (SD-1P170-01)
TYPE 2,3, OR 4 MTCE CONN SEE NOTE 114

TO Ⓦ 3A4 OR Ⓣ 100I OR Ⓠ 120I OR TO SMAS NO. 5B INTERFACE CKT (SD-99641-01)
TO Ⓦ 3A2 OR Ⓣ 10GI OR Ⓠ 12GI OR TO SMAS NO. 5B INTERFACE CKT (SD-99641-01) OR TO MTCE CONN CONTROL CKT (SD-1P170-01)
TO Ⓦ 3A0 OR TO MTCE CONN CONTROL CKT (SD-1P170-01)
TO OFFICE INTERRUPTER CKT (SEE NOTE 1)
TO OTHER LOCAL TEST PORT IN SAME SYSTEM
Ⓣ 10GI OR Ⓠ 12GI OR TO SMAS NO. 5B INTERFACE CKT

NOTES:
1. ANY TYPE OFFICE INTERRUPTER WHICH PROVIDES CLOSURE TO GROUND MAY BE CONNECTED TO THE BR3 LEAD. ST LEAD MAY BE CONNECTED TO START OFFICE INTERRUPTER AS REQUIRED.

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT	DWG SIZE 6S	ISSUE 14B
BELL LABORATORIES	SD-1P106-01	-BIS

⑤PART OF FS12
LOCAL TEST PORTS A & B
(PORT A)
(J1P033AC, J99359AP)
(SEE NOTE 116, 206 & 209)

T TSTA 3 — SPEA 1 — SPLAA 1 — SPLAA 3
R TSTA 6 — SPEA 2 — SPLAA 2 — SPLAA 4
TI TSTA 7 — CMA 1
RI TSTA 8 — CMA 2
EL TSTA 9 — CMA 3 — SPEA 3 — SPLBA 8 — SPLBA 10
ML TSTA 10 — CMA 4 — SPEA 4 — SPLBA 9 — SPLBA 11
ED TSTA 11 — CMA 5
MD TSTA 12 — CMA 6

R9A 237K ±24 — R7A 10K — R6A 1210 — R8A 10K — R10A 237K — IC1A 502AH — SEE NOTE 1 — T1A — R11A 600 — E1 E2 E3 E4
R15A 237K ±24 — R13A 10K — R12A 1210 — R14A 10K — R16A 237K — IC2A 502AH — SEE NOTE 1 — T2A — R17A 600 — E5 E6 E7 E8

JACK, KEY, AND LAMP CKT (SD-99645-01)

2-26 3 — 2-1 2 — E.F 1-23 — F 1
2-27 3 — 2-2 2 — E.F 1-48 — E 1
2-28 3 — 2-3 2 — E.F 1-24 — F 1
2-29 3 — 2-4 2 — E.F 1-49 — E 1
2-31 3 — 2-6 2 — E 1
2-30 3 — 2-5 2 — F 1

A
B
S

SPLAA 12 21 640 CR37A C -48
SPAA 11
SPBA 4 — CMA 12
SPEA 11 — LTA 11
SPLBA 10 20 640 CR38A C -48

1966

(T) 1000, 1100 OR (Q) 1200, 1260

NOTES:

1. STRAP INTEGRATED CIRCUITS AS FOLLOWS:

PIN 2 TO PIN 3
PIN 7 TO PIN 8
PIN 9 TO PIN 10
PIN 15 TO PIN 16

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT..

BELL LABORATORIES	SD-1P106-01	DWG SIZE 6S	ISSUE 14B
			-820

PRINTED IN U.S.A.

PART OF FS12

LOCAL TEST PORTS A&B (PORT B) (J1P033AC, J99359AP) (SEE NOTE 206)

RTS 5A CONTROL CIRCUIT (SD-1P107-01)

JACK, KEY, & LAMP CIRCUIT (SD-99645-01)

JACK, KEY, & LAMP CIRCUIT (SD-99645-01)

TO W 3A9 OR T 10D1 OR Q 12D1 OR TO SMAS NO. 5B INTERFACE CKT (SD-99641-01)

TO W 3A6 OR T 10G1 OR Q 12G1 TO SMAS NO. 5B INTERFACE CKT (SD-99641-01) OR TO MTCE CONN CONTROL CKT (SD-1P170-01)

W 3A5 OR TO MTCE CONN CONTROL CKT (SD-1P170-01)

TO OFFICE INTERRUPTER CKT (SEE NOTE 1)

TO OTHER LOCAL TEST PORT IN SAME SYSTEM

T 10G1 OR Q 12G1 OR TO SMAS NO. 5B INTERFACE CKT

NOTES:

1. ANY TYPE OFFICE INTERRUPTER WHICH PROVIDES CLOSURE TO GROUND MAY BE CONNECTED TO THE BR3 LEAD. ST LEAD MAY BE CONNECTED TO START OFFICE INTERRUPTER AS REQUIRED.

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT		DWG SIZE 6S	ISSUE 14B
BELL LABORATORIES	SD-1P108-01		-B21

⑤ PART OF FS 12

LOCAL TEST PORTS A & B
(PORT B)
(JIP033AC, J93359AP)
(SEE NOTE 206)

T TSTB 5 — SPEB 1 — SPLAB 1 — E15 — R7B 10K — R6B 1210 — R8B 10K — E16 — SPLAB 2
R38 237K — +24 — 13 — 4 — 12 — IC1B 502AH — 5 — 11 — 6 — C — R10B 237K
SEE NOTE 1
T1B 8 1 5 4 6
SPLAB 3 — E13 — R11B 600 — E14 — SPLAB 4
1-26 3 — 1-1 2 — 1-20 1 — F — E.F — C

R TSTB 6 — SPEB 2 — SPLAB 2
TI TSTB 7 — CMB 1 — SPEB 1
1-27 3 — 1-2 2 — 1-46 1 — E — E.F — C

AI TSTB 8 — CMB 2 — CMB 1 — SPEB 2
EL TSTB 9 — CMB 3 — SPEB 3 — SPLBB 8
R15B 237K — +24 — 13 — 4 — 12 — IC2B 502AH — 5 — 11 — 6 — C — R16B 237K
SEE NOTE 1
T2B 8 1 5 4 6
E11 — R13B 10K — R12B 1210 — R14B 10K — E12 — SPLBB 9
SPLBB 10 — E9 — R17B 600 — E10 — SPLBB 11
1-28 3 — 1-3 2 — 1-22 1 — F — EF — C

ML TSTB 10 — CMB 4 — SPEB 4 — SPLBB 9
ED TSTB 11 — CMB 5 — CMB 3 — SPEB 3
MD TSTB 12 — CMB 6 — CMB 4 — CMB 2 — SPEB 2
1-29 3 — 1-4 2 — 1-47 1 — E — EF — C
1-31 3 — 1-6 2 — E
1-30 3 — 1-5 2 — F

JACK, KEY, AND LAMP CKT (SD-99645-01)

A
B
S

⑦ 1000, 1060 OR ⑧ 1200, 1260

2106

SPLAB 1L 2L 640 CR37B — A — C — 48
SPAB 11 — C
SPBB 4 — 12 — CMB — C
SPEB 11 — C
LTB 11 — B
SPLBB 1U 2U 640 CR38B — C — 48

NOTES:

1. STRAP INTEGRATED CIRCUITS AS FOLLOWS:

   PIN 2 TO PIN 3
   PIN 7 TO PIN 8
   PIN 9 TO PIN 10
   PIN 15 TO PIN 16

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT	DWG SIZE 6S	ISSUE 14B
BELL LABORATORIES	SD-1P106-01	-B22

FS 13

LOCAL ACCESS CONTROL CKT
(SEE NOTES 116 & 209)
(W/P033AC, J99359AP)

JACK, KEY, & LAMP CKT (SD-99645-01)

ACC KEY

2-21

ACC KEY

2-45

-48

CR53

CR52

ACC1

1L 2L 640

CR18

C -48

SELB

SELA

ACC3

ACC2

1L 2L 680

CR19

C -40

(V) RTS 5A CONT CKT (SD-1P107-01)

AH

AHR

SEL GRD CR49

1-45

ACC1

ACC3

J,K,V

BUSY

SEL GRD CR50

1-21 CR51

NSN

18C0

ACC3

1U 2U

CR20

(ZG)

(ZF)

GD

DOUT

DIN

CA1
200 MSEC DELAY ON RELEASE

25F1

(W) 18C9 A-E

ALM

-48 C 2U 1U 640

CR46

RLSA RLSB ALM

BUSY

-48 C 2U 1U 640

CR47

BUSY

CR44

CR45

NSN

CR36 1L 2L 640

CR48

ACC3

R3 909

SEE NOTE 203 (J,K)

(ZD) (ZE) ACC2 ACC3

SEE NOTE 203 (J,K)

SEE NOTE 203 (J,K)

BUSY NSN

SEL BAT 1

SEL BAT

ACC1

SELA

SELB

ACC2

NSN

R4 511

-48

TO RTS 5A CONTROL CKT (SD-1P107-01)

+24

GRD (+24)

+130

GRD (+130)

TO FUSE BOARD

R5 750

CR21

-48

GRD (-48)

E2 E1

24 V CONV

E5

(V) RTS 5A CONT CKT (SD-1P107-01)

SEL

SEL

TPB

TPB

BTPB

ALMI

ALMI

P/O MTCE CONN

ALMI GT2

ALM

TPB GT1 TM GT1

-48

(T) A B

(T) 20,1K00A TO MTCE CONN CONTROL CKT (SD-1P170-01)

SEL SEL GT1

JACK, KEY & LAMP CKT (SD-99645-01)

2-[illegible] ALM -48

2-46 BSY -48

2-47 NSN C

ACC2

NSN

ACC2

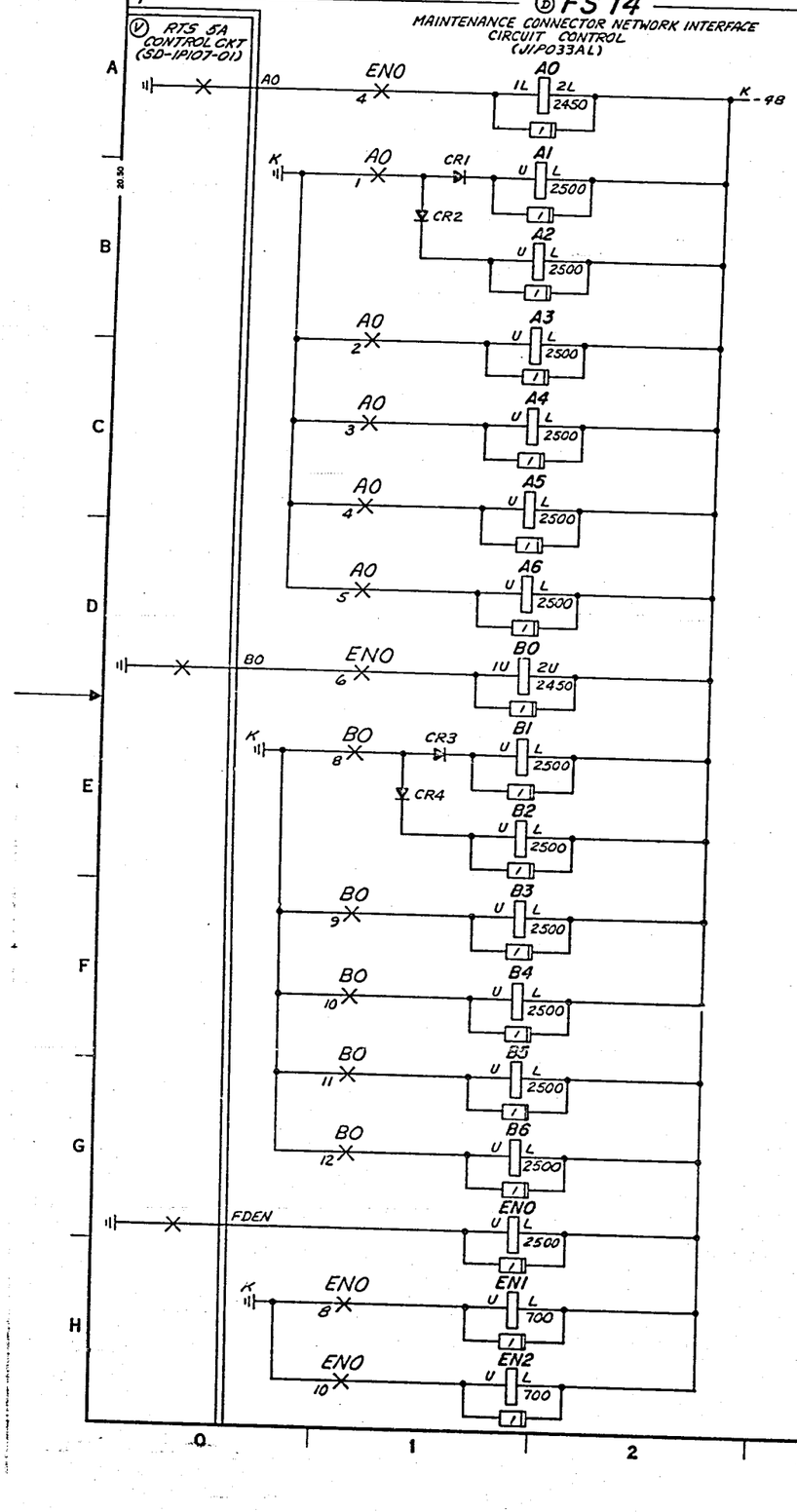
-48

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT		DWG SIZE 6S	ISSUE 14B
BELL LABORATORIES	SD-1P106-01		-B23

FS 14

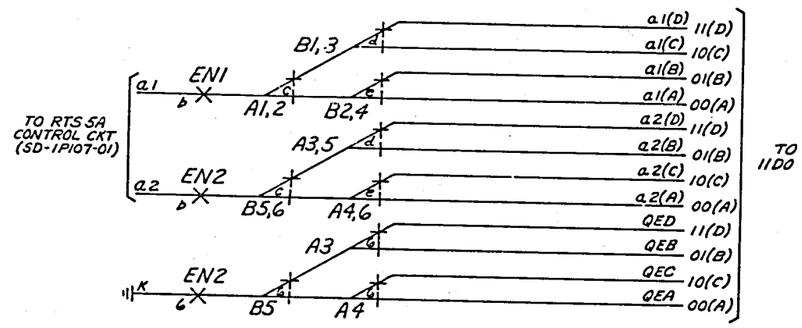
MAINTENANCE CONNECTOR NETWORK INTERFACE CIRCUIT CONTROL (J1P033AL)

RTS 5A CONTROL CKT (SD-1P107-01)



FS 15

MAINTENANCE CONNECTOR NETWORK INTERFACE CIRCUIT EXPANSION STEERING CIRCUIT (J1P033AL)



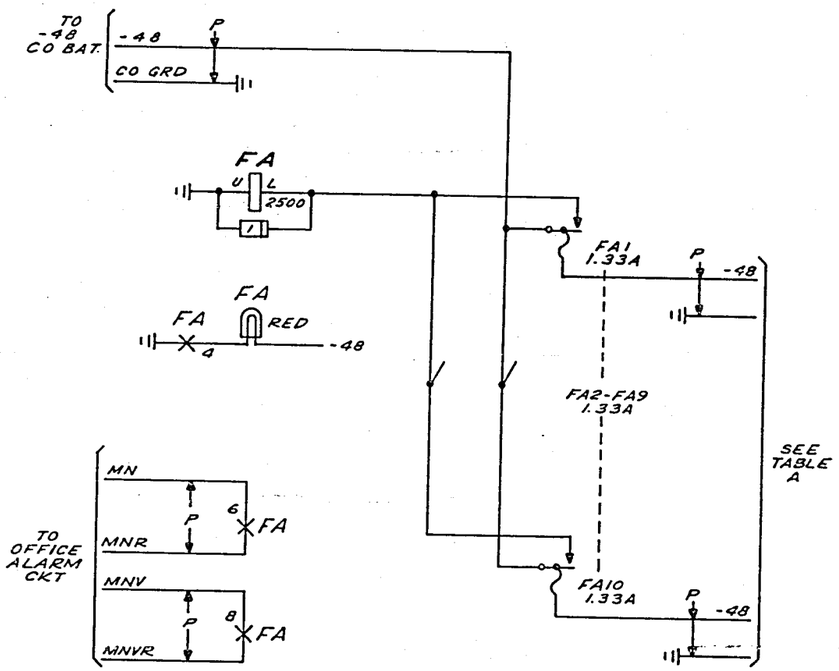
LEAD DESIG		FIRST RELAY		SECOND RELAY		THIRD RELAY		FOURTH RELAY	
		FUNCT DESIG	CONT b	FUNCT DESIG	CONT c	FUNCT DESIG	CONT d	FUNCT DESIG	CONT e
a1	GTB0( )	EN1	1	A1	1	B1	1	B2	1
	TMB0( )		2		2		2		2
	GTB1( )		3		3		3		3
	TMB1( )		4		4		4		4
	GTB2( )		5		5		5		5
	TMB2( )		6		6		6		6
	GTB3( )		7		7		7		7
	TMB3( )		8		8		8		8
	GTB4( )		9		9		9		9
	TMB4( )		10		10		10		10
	GTB5( )		11		11		11		11
	TMB5( )		12		12		12		12
	GTB6( )		13	A2	1	B3	1	B4	1
	TMB6( )		14		2		2		2
	GTB7( )		15		3		3		3
	TMB7( )		16		4		4		4
	GTB8( )		17		5		5		5
	TMB8( )		18		6		6		6
	GTB9( )		19		7		7		7
	TMB9( )		20		8		8		8
	GTGO( )		21		9		9		9
	MO		22		10		10		10
	GTGT( )		23		11		11		11
	TGTGO		24		12		12		12
a2	GTG2( )	EN2	1	B5	1	A3	1	A4	1
	GTG3( )		2		2		2		2
	GTG4( )		3		3		3		3
	GTG5( )		4		4		4		4
	GTG6( )		5		5		5		5
	GTG7( )		7		7		7		7
	T		8		8		8		8
	GTG8( )		9		9		9		9
	SC		10		10		10		10
	GTG9( )		11		11		11		11
	SEL		12		12		12		12
	TPH		13	B6	1	A5	1	A6	1
	ALM1		14		2		2		2
	A		15		3		3		3
	B		16		4		4		4
	C		17		5		5		5
	D		18		6		6		6
	F		19		7		7		7
	F		20		8		8		8
	G		21		9		9		9
	H		22		10		10		10
	TAL ZB		23		11		11		11
	DET OPT		24		12		12		12

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT

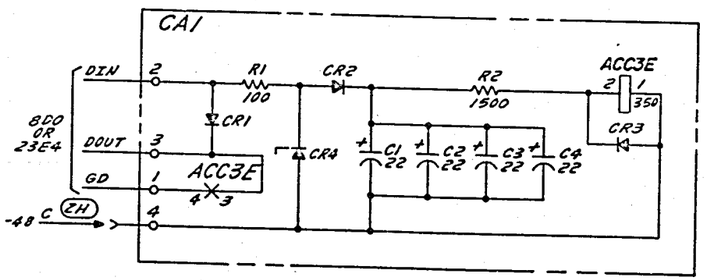
DWG SIZE 6S | ISSUE 14B

BELL LABORATORIES | SD-1P106-01 | -B24

FS 16
FUSING AND ALARM CKT
(FOR FRAME ARRANGEMENTS)



(ZF) FS 18
RELAY RELEASE TIME EXTENDER



(18) FS 17
TERMINATE AND LEAVE RELAY CONTROL CKT
(J1P033AK)

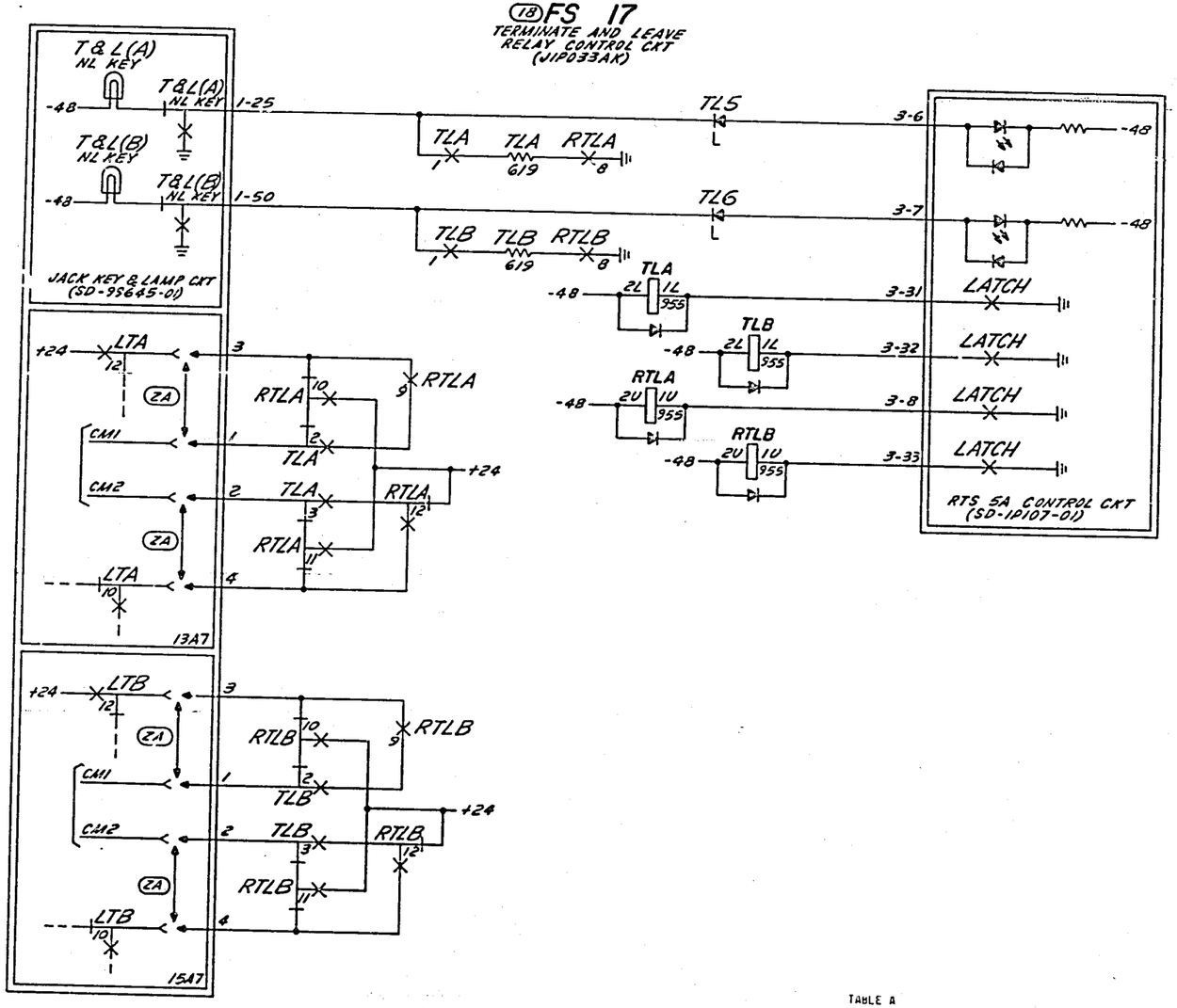


TABLE A

FUSE DESIG	AMP	ASSIGNED TO
FA1 TO FA8	1.33	STAGE ONE DISTRIBUTION MODULE ( )
FA9 FA10	1.33	NETWORK INTERFACE CONTROL PANEL

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT

DWG SIZE 6S

ISSUE 13AC

BELL LABORATORIES SD-1P106-01 -B25

APP FIG. 1 (MFR DISC.)

(J1P033AA)

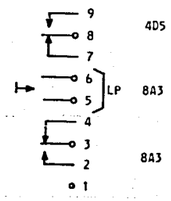
DIODE

DESIG	LOC	CODE
CR4	1C1	533E OR 446F
CRU1	1C2	533E OR 446F
CRU2	1C3	533E OR 446F
(V) CRU4	1D3	533E OR 446F
CRU8	1D3	533E OR 446F

KEY

ACC

624C4
E/W M1 LAMP



LAMP

DESIG	LOC	CODE
ALM	8A6	M1
BUSY	8B6	M1
NSN	8B6	A1

SWITCH

DESIG	HUND		UNIT	
CODE	KS-19889,L1		KS-19889,L4	
OPTION				
	TERM.	LOC	TERM.	LOC
	ALL	1B1	ALL	1C1
	0-9	1B1	0-9	1C1

SWITCH

DESIG	TENS				THOU			
CODE	KS-19889,L5				KS-19889,L5			
OPTION								
SECT.	1		2		1		2	
	TERM.	LOC	TERM.	LOC	TERM.	LOC	TERM.	LOC
	ALL	1A4	ALL	1C4	ALL	1A1	ALL	1B1
	0-9	1A4	0-9	1C4	0-9	1A1	0-9	1B1

APP FIG. 2 (MFR DISC.)

(J1P033AA)

CONNECTOR

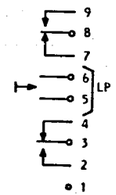
DESIG	LOC	CODE
A EA	5B7	238AM(JACK)
A EB	7B7	238AM(JACK)
A FA	5B7	238AM(JACK)
A FB	7B7	238AM(JACK)
B EA	5E7	238AM(JACK)
B EB	7E7	238AM(JACK)
B FA	5E7	238AM(JACK)
B FB	7E7	238AM(JACK)

JACK

SEE CONNECTOR

KEY

624C4
E/W M1 LAMP



BIDA	BIDB	LTA	LTB	MONA	MONB	RLSA	RLSB	RST TRMA	RST TRMB	SPAA/ SPFA	SPAB/ SPFB	SPBA/ SPEA	SPBB/ SPEB
				4D6	6D6	4F3	6F3					4E7	6E7
4A5	6A5	4E6	6E6	4C8	6C8	4A7	6A7	4A2	6A2	4D8	6D8	4G8	6G8
4B3	6B3	4D6	6D6	4D6	6D6			4A1	6A1	4C7	6C7	4F7	6F7

LAMP

DESIG	LOC	CODE
2W/4WTSTA	4F8	M1
2W/4WTSTB	6F8	M1
SPLA	4F4	M1,RED
SPLB	6F4	M1,RED

APP FIG. 3 (MFR DISC.)

(J1P033AA)

CONNECTOR

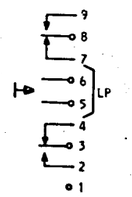
DESIG	LOC	CODE
S EA	5H7	238AM(JACK)
S EB	7H7	238AM(JACK)
S FA	5H7	238AM(JACK)
S FB	7H7	238AM(JACK)

JACK

SEE CONNECTOR

KEY

624C4
E/W M1 LAMP



SSA	SSB
4H6	6H6
4E7	6E7

LAMP

DESIG	LOC	CODE
6WTSTA	4G8	M1
6WTSTB	6G8	M1

ISSUE 12A.

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT

SD-1P106-01-C1

BELL TELEPHONE LABORATORIES INCORPORATED

6S

PRINTED IN U.S.A.

APP FIG 4

RELAY

(J1P033AB)
(SEE NOTE 125)

DESIG	K0		K1		K2		K3		K4		K5		K6		K7		K8		K9						DESIG
CODE	AJ83		AJ83		AJ83		AJ83		AJ83		AJ83		AJ83		AJ83		AJ83		AJ83						CODE
OPTION																									OPTION
X	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	X
12	EBM	3C2	EBM	3E2	EBM	3F2	EBM	3G2	EBM	3G2	EBM	3C6	EBM	3E6	EBM	3F6	EBM	3G6	EBM	3G6					12
11	EBM	3C2	EBM	3E2	EBM	3F2	EBM	3G2	EBM	3G2	EBM	3C6	EBM	3E6	EBM	3F6	EBM	3G6	EBM	3G6					11
10	EBM	3C2	EBM	3E2	EBM	3F2	EBM	3G2	EBM	3G2	EBM	3C6	EBM	3E6	EBM	3F6	EBM	3G6	EBM	3G6					10
9	EBM	3C2	EBM	3E2	EBM	3F2	EBM	3G2	EBM	3G2	EBM	3C6	EBM	3E6	EBM	3F6	EBM	3G6	EBM	3G6					9
8	EMB	3D2	EMB	3E2	EMB	3F2	EMB	3G2	EMB	3G2	EMB	3D6	EMB	3E6	EMB	3F6	EMB	3G6	EMB	3G6					8
7	EBM	3C2	EBM	3E2	EBM	3F2	EBM	3G2	EBM	3G2	EBM	3C6	EBM	3E6	EBM	3F6	EBM	3G6	EBM	3G6					7
6	EMB	3C2	EMB	3E2	EMB	3F2	EMB	3G2	EMB	3G2	EMB	3C6	EMB	3E6	EMB	3F6	EMB	3G6	EMB	3G6					6
5	EMB	3D1	EMB	3E1	EMB	3F1	EMB	3G1	EMB	3G1	EMB	3D5	EMB	3E5	EMB	3F5	EMB	3G5	EMB	3G5					5
4	EBM	3C2	EBM	3E2	EBM	3F2	EBM	3G2	EBM	3G2	EBM	3C6	EBM	3E6	EBM	3F6	EBM	3G6	EBM	3G6					4
3	EBM	3C2	EBM	3E2	EBM	3F2	EBM	3G2	EBM	3G2	EBM	3C6	EBM	3E6	EBM	3F6	EBM	3G6	EBM	3G6					3
2	EBM	3C2	EBM	3E2	EBM	3F2	EBM	3G2	EBM	3G2	EBM	3C6	EBM	3E6	EBM	3F6	EBM	3G6	EBM	3G6					2
1	EBM	3C2	EBM	3E2	EBM	3F2	EBM	3G2	EBM	3G2	EBM	3C6	EBM	3E6	EBM	3F6	EBM	3G6	EBM	3G6					1
COIL	X	3D1	X	3E1	X	3F1	X	3G1	X	3G1	X	3D6	X	3E6	X	3F6	X	3G6	X	3G6					COIL

DIODE

DESIG	LOC	CODE
CR0A	3D1	
CR0B	3D1	
CR0C	3D1	
CR1A	3E1	
CR1B	3E1	
CR1C	3E1	
CR2A	3F1	
CR2B	3F1	~~535E~~ OR 533K ~~446F~~
CR2C	3F1	
CR3A	3G1	
CR3B	3G1	
CR3C	3G1	
CR4A	3G1	
CR4B	3G1	
CR4C	3G1	
CR5A	3D5	

DIODE (CONT)

DESIG	LOC	CODE
CR5B	3D6	
CR5C	3D6	
CR6A	3E5	
CR6B	3E6	
CR6C	3E6	
CR7A	3F5	
CR7B	3F6	
CR7C	3F6	~~535E~~ OR 533K ~~446F~~
CR8A	3G5	
CR8B	3G6	
CR8C	3G6	
CR9A	3G5	
CR9B	3G6	
CR9C	3G6	
CR10	3A0	
CR11	3A5	

RESISTOR

DESIG	LOC	CODE
R1	3A0	KS-14603 L3A0, 909
R2	3A5	KS-14603 L3A0, 909
R3	3A0	KS-14603 L3A0, 909
R4	3A5	KS-14603 L3A0, 909

APP FIG 5

RELAY

(J1P003AC)

DESIG	BIDA		RLSA		BIDB		RLSB						IDLEA		REOA		IDLEB		REOB		DESIG
CODE	AK41				AK41								AK44				AK44				CODE
OPTION																					OPTION
X	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOF	CONT ARR	LOC	CONT ARR	LOC	X
12			M	3E2,19E1			M	6E1,21E1					EBM				EBM				12
11			EBM	4B2,1981			EBM	6B2,2181					EBM				EBM				11
10			EBM	4A7,1906			EBM	6A7,21C6					EBM	4F2,19E7			EBM	6F2,21E1			10
9			EMB	3C5,23C4			EMB	3E5,23C4					EBM	3E3,19E3			EBM	6E3,21E3			9
8			EMB	3E3,19E3			EMB	3E3,21E3					EBM	4B2,1981			EBM	6B2,2181			8
7																					7
6																					6
5	EMB	4C2,19C1			EMB	6C2,21D1															5
4	EMB	4B4,1983			CMB	5B4,21B3									EBM						4
3	EBM	4D3,1901			EBM	6D3,21D1									EBM	4A8,19F7			EBM	6A8,21F7	3
2	EBM	4C3,19C2			EBM	6C3,21C2									EBM	4A8,19F7			EBM	6A8,21F7	2
1	M	4B2,19C2			N	6B2,21C2									EBM	4E2,19E3			EBM	6E2,21E3	1
COIL	X	4B4,19C3	X	3E4,19E3	X	6B4,21C3	X	6E4,21E3	X		X		X	4B4,1982	X	4F5,19F1	X	6B4,21B2	X	6F5,21F1	COIL

RELAY

DESIG					LTA		SPLA		LTB		SPLB						SELA		SELB		DESIG
CODE					AK44				AK44								AJ81		AJ81		CODE
OPTION																					OPTION
X	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	X
12					EBM	4B7,19A6			EBM	6B7,21A6							EBM	8C6,23F5	EBM	8C6,23F5	12
11					EBM	5F9,2008			EBM	7F9,22D8							EBM	88B,19F7	EBM	8B8,21F7	11
10					EBM	4B3,1947			EBM	6B3,21A7							EBM	4F8,19G7	EBM	6F8,21G7	10
9					EBM	4C6,1986			EBM	6C6,21B6							EBM		EBM	695	9
8					EBM	4E6,1985			EBM	6E6,2185							EBM		EBM		8
7																	EBM		EBM		7
6																	EBM		EBM		6
5							EBM				EBM						EBM	4G3,19H2	EBM	6G3,21G2	5
4							EBM				EBM						EBM	8B3,23C1	EBM	8B3,23C1	4
3							EBM				EBM						EBM	4H3,19H2	EBM	6H3,21H2	3
2							EBM				EBM						EBM	4D4,19C3	EBM	6D4,21C3	2
1							EBM				EBM						EBM	485,1983	EBM	21B3	1
COIL	X		X		X	4D5,19C5	X	4H4,19H3	X	6D5,21C5	X	6H4,21H3	X		X		EBM	4C3,19C2	EBM	6C3,21C2	COIL
																	X	4D4,19C2	X	6D4,21C2	

RELAY

DESIG					SPAA		SPBB		SPAB		SPBA						TSTA		TSTB		DESIG
CODE					AK44				AK44								AJ81		AJ81		CODE
OPTION																					OPTION
X	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	X
12					EBM	4B6,19A6			EBM	6B6,21A6							EBM	5G1,20G1	EBM	7G1,22G1	12
11					EBM	5D8,2088			EBM	7D3,2288							EBM	5F1,20F1	EBM	7F1,22F1	11
10					EBM	4C6,1987			EBM	6C6,21B7							EBM	5F1,20F1	EBM	7F1,22F1	10
9					EBM	4E8,19D7			EBM	6E8,21D7							EBM	5D1,20D1	EBM	7D1,22D1	9
8					EBM	4D3,19C7			EBM	6D7,21C8							EBM	5D1,20D1	EBM	7D1,22D1	8
7																	EBM	5C1,20C1	EBM	7C1,22C1	7
6																	EBM	5C1,20C1	EBM	7C1,22C1	6
5							EBM	6B6,21A6			EBM	4B6,19A6					EBM	5A1,20A1	EBM	7A1,22A1	5
4							EBM	7E6,22C8			EBM	5E8,20C8					EBM	4A7,19F7	EBM	6A7,21F7	4
3							EBM	6C7,21B7			EBM	4C7,19B7					EBM	4G6,19D6	EBM	6G6,21D6	3
2							EBM	6G6,21E5			EBM	4G6,19E5					EBM	4E3,1902	EBM	6E3,21D2	2
1							EBM	6E7,21D8			EBM	4E7,19D8					EBM	4D3,19C1	EBM	6D3,21C1	1
COIL	X		X		X	4C8,19C7	X	6E3,21D7	X	6C8,21C7	X	4E8,1907	X		X		X	4E4,19E2	X	6E4,21E2	COIL

DIODE

DESIG	LOC	CODE
CR7A	4B4,19B2	
CR7B	6B4,21B2	
CR8A	4C4,19C3	
CR8B	6C4,21C3	
CR9A	4D4,19C2	
CR9B	6D4,21C2	
CR10A	4E4,19E2	
CR10B	6E4,21E2	533E OR 446F
CR11A	4F5,19F1	
CR11B	6F5,21F1	
CR12A	4F4,19E3	
CR12B	6F4,21E3	
CR13A	4D3,19C7	
CR13B	6D8,21C7	
CR14A	4E8,19E7	
CR14B	6E8,21E7	

DIODE (CONT)

DESIG	LOC	CODE
CR15A	4C6,19B6	
CR15B	6C6,21B6	
CR16A	4E5,19C5	
CR16B	6E5,21C5	
CR17A	4H4,19H3	
CR17B	6H4,21H3	
CR30A	4B2,19C2	
CR30B	6B2,21C1	533E OR 446F
CR31A	4D4,19C1	
CR31B	6D4,21C1	
CR32A	4D4,19E1	
CR32B	6D4,21E1	
CR33A	4D8,19C7	
CR33B	6D8,21C7	
CR34A	4E7,19D8	
CR34B	6E7,21D8	

RESISTOR

DESIG	LOC	CODE
R1A	4B4,19B2	KS-14603 L3A0, 422
R1B	6B4,21B2	KS-14603 L3A0, 422
R2A	4D4,19C2	KS-20289 L5A, 909
R2B	6D4,21C2	KS-20289 L5A, 909

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT

DWG SIZE	ISSUE
6S	14B

BELL LABORATORIES | SD-1P106-01 | -C2

APP FIG. 6
(J1P033AC)

RELAY

DESIG	ACC1		ALM		ACC2		ACC3						BUSY		NSN		SPLAA		SPLBA		SPLAB		SPLBB						DESIG
CODE	AK44				AK41								AK44																CODE
OPTION																													OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12			EBM				M	8B3,23C1					EBM	603,21D1					EBM				EBM						12
11			EBM				EBM	8B6,23D6					EBM	8C2,23E1					EBM	5F6,2CF5			EBM	7F6,22F5					11
10			EBM	6B3,21D2			EBM	8C3,23D1					EBM	8C2,23E2					EBM	5F4,20F3			EBM	7F4,22F3					10
9			EBM	4F3,19D2			EMB	8B6,23C6					EBM	8B5,23C4					EBM	5D4,20D3			EBM	7D4,22D3					9
8			EBM	8A5,23C4			EMB	a					EBM	403,19D1															8
7																													7
6																													6
5	EBM	8D5,23F3			EMB	a									EBM	8C2,23E2	EBM				EBM								5
4	EBM				EMB	8C6,23E6									EBM	4F4,21E2	EBM	5C6,20C5			EBM	7C6,22C5							4
3	EBM	405,19D3			EBM	8A6,23B6									EBM	8C6,23F6	EBM	5A6,20A5			EBM	7A6,22A5							3
2	EBM	8C3,23D1			EBM	8C3,21D3									EBM	8C2,23E1	EBM	5C4,20C3			EBM	7C4,22C3							2
1	EBM	8A3,23B1			M	4C3,19D2									EBM	4E4,19E2	EBM	5A4,20A3			EBM	7A4,22A3							1
COIL		8A4,23B2		8A5,23B5		8A4,23C2		8B4,23D2						8A5,23C5		8B5,23D5		5D9,20B9		5E9,20D9		7C9,22B9		7E9,22D9					COIL

a (ZD) 8C5, 23E5

a (ZE) 8C5, 23F5

COMPONENT ASSEMBLY

DESIG	LOC	CODE
(ZF) CA1	25G1	ED-1P664-( )

E/W

RELAY

345A

ACC3E	25G1
	25G3

CAPACITOR

DESIG	LOC	CODE
C1	25G2	653C
C2	25G2	653C
C3	25G2	653C
C4	25G2	653C

DIODE

DESIG	LOC	CODE
CR1	25G1	533F
CR2	25G1	533F
CR3	25G3	458A
CR4	25G1	808BG

RESISTOR

DESIG	LOC	CODE
R1	25G1	KS-20289,L6C, 100
R2	25G2	KS-16314,L6D, 1500

DIODE

DESIG	LOC	CODE
CR18	8A4,23C2	533E OR 446E
CR19	8B4,23C2	
CR20	8C4,23D2	
CR36	8B5,23D4	
CR37A	5D9,2089	
CR37B	7D9,2289	
CR38A	5E9,2009	
CR38B	7E9,2209	
CR44	8B6,23C6	
CR45	8B5,23D5	
CR46	8A5,23C5	
CR47	8B5,23C5	
CR48	8B5,23D5	
CR49	8C2,23D0	
CR50	8C2,23E0	
(W,A) CR51	8C2,23E0	
CR52	8B3,2382	
CR53	8B3,2382	

RESISTOR

DESIG	LOC	CODE
R3	8C6,23D5	KS-14603, L3A0,909
R4	8C6,23F6	KS-14603, L3AD, 511

(Y) APP FIG. 7
(J1P033AC)

DIODE

DESIG	LOC	CODE
CR21	8B2,23G2	485AA

RESISTOR

DESIG	LOC	CODE
R5	8A2,23G2	KS-8512 L8A, 750

(X) APP FIG. 8
(J1P033AC)

CONVERTER

DESIG	LOC	CODE
24V	8B2,23H2	2020

(W) APP FIG. 9
(J1P033AC)

DESIG	UNT1		UNT1S		SPARE		UNT2		UNT4		UNT8										DESIG
CODE	AJ5		AK44				AJ5		AJ5		AF32										CODE
OPTION																					OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	EBM	1F7,18F8			EBM		EBM	1E2,18F2	EBM		EMB	1G6,18G6									
11	EBM	1F7,18E8			EBM		EBM		EBM												
10	EBM	1E7,18E8			EBM		EBM		EBM		EBM	1E6,18E6									
9	EBM	1E7,18D8			EBM		EBM	1H7,18G2	EBM												
8	EBM	1E7,18C8			EBM		EBM	1G7,18G7	EBM		EBM	1D6,18C6									
7	EBM	1D7,18C8					EBM	1F7,18F7	EBM												
6	EBM	1D7,18C8					EBM	1E7,18E7	EBM	1G6,18G7	EMB	1B6,18B6									
5	EBM	1D7,18C8	EBM	1H7,18G8			EBM	1D7,18D7	EBM	1E6,18E7											
4	EBM	1C7,18C8	EBM	1G7,18G8			EBM	1D7,18C7	EBM	1D6,18C7	EBM	1B6,18B6									
3	EBM	1C7,18C8	EBM	1G7,18G8			EBM	1C7,18C7	EBM	1C6,18B7											
2	EBM	1B7,18B8	EBM	1H7,18F8			EBM	1C7,18B7	EBM	1B6,18B7	EBM	1A6,18A6									
1	EBM	1A7,18A8	EBM	1F7,18F8			EBM	1A7,18A7	EBM	1A6,18A7											
COIL		1D1,18E1		1E1,18F1				1F1,18G1		1G1,18G1		1G1,18H1									

DIODE

DESIG	LOC	CODE
CR1	1E1,18E1	533E OR 446F
CR2	1E1,18F1	
CR3	1F1,18G1	
CR5	1G1,18G1	
CR6	1H1,18H1	
CR24	1A6,1846	
CR25	1B6,1886	
CR26	1C6,1886	

DIODE (CONT)

DESIG	LOC	CODE
CR27	1D6,18C6	533E OR 446F
CR28	1E6,18E6	
CR29	1G6,1866	
CR39	1B8,1849	
CR40	1B8,1889	
CR41	1B8,1889	
CR42	1C8,18C9	
CR43	1C8,18C9	

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT

DWG SIZE 6S

ISSUE 13AC

BELL LABORATORIES | SD-1P106-01 | -C3

PRINTED IN U.S.A.

⑤APP FIG. 10
(J1P033AC)

RELAY

DESIG	CMA		CMB			SPEA		SPEB	
CODE	AJ81		AJ81			AJ81		AJ81	
OPTION									
X	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
12	EBM	5E8	EBM	7E8	EBM		EBM	4C7	EBM	6C7
11	EBM	4E7	EBM	6E7	EBM		EBM	5E8	EBM	7E8
10	EBM	4E7	EBM	6E7	EBM		EBM		EBM	
9	EBM	4G3	EBM	6G3	EBM		EBM		EBM	
8	EBM	4H7	EBM	6H7	EBM		EBM	4C8	EBM	6C8
7	EBM	4G7	EBM	6G7	EBM		EBM	4D7	EBM	6D7
6	EBM	5G2	EBM	7G2	EBM		EBM	4H8	EBM	6H8
5	EBM	5F2	EBM	7F2	EBM		EBM	4E7	EBM	6E7
4	EBM	5F1	EBM	7F1	EBM		EBM	5F2	EBM	7F2
3	EBM	5D1	EBM	7D1	EBM		EBM	5D3	EBM	7D3
2	EBM	5D2	EBM	7D2	EBM		EBM	5C2	EBM	7C2
1	EBM	5C2	EBM	7C2	EBM		EBM	5A3	EBM	7A3
COIL	X	4G4	X	6G4	X		X	4D8	X	3D8

DIODE

DESIG	LOC	CODE
CR22A	4E8,19D7	533E OR 446F
CR22B	6E8,21D7	
CR23A	4G4,19G3	
CR23B	6G4,21H3	
CR35A	4E7,19C8	
CR35B	6E7,21C8	

APP FIG. 11

RELAY

DESIG	MN1		MN2							
CODE	AK24									
OPTION										
X	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
12			BM	9E1						
11			BM							
10										
9			M	9D1						
8			M	9D1						
7										
6										
5	M	9B1								
4	M	9B1								
3										
2	BM									
1	BM	9C1								
COIL	X	9A1	X	9C1	X		X		X	

NETWORK

DESIG	LOC	CODE
MN1	9A1	185A
MN2	9C1	185A

APP FIG. 12
(J1P033AC)

INTEGRATED CIRCUITS

	DESIG	LOC	CODE
[1]	IC1A	5B4,14B3,20B4	502AH
	IC1B	7B4,16B4,22B4	502AH
[1]	IC2A	5E4,14E4,20E4	502AH
	IC2B	7E4,16E4,22E4	502AH

RESISTOR

DESIG	LOC	CODE
R6A	5B4,14B3,20B3	KS-20616 L1A, 121Ω
R6B	7B4,16B3,22B3	KS-20616 L1A, 121Ω
R7A	5B4,14B4,20B4	KS-20616 L1A, 10K
R7B	7B4,16B4,22B4	KS-20616 L1A, 10K
R8A	5B4,14B4,20B4	KS-20616 L1A, 10K
R8B	7B4,16B4,22B4	KS-20616 L1A, 10K
R9A	5A4,14B4,20B4	KS-20616 L1A, 237K
R9B	7A4,16B4,22B4	KS-20616 L1A, 237K
R10A	5B4,14C4,20C4	KS-20616 L1A, 237K
R10B	7B4,16C4,22C4	KS-20616 L1A, 237K
R11A	5B5,14B5,20B5	KS-20616 L1A, 600
R11B	7B5,16B5,22B5	KS-20616 L1A, 600
R12A	5E4,14E3,20E3	KS-20616 L1A, 121Ω
R12B	7E4,16E3,22E3	KS-20616 L1A, 121Ω
R13A	5E4,14E4,20E4	KS-20616 L1A, 10K
R13B	7E4,16E4,22E4	KS-20616 L1A, 10K
R14A	5E4,14E4,20E4	KS-20616 L1A, 10K
R14B	7E4,16E4,22E4	KS-20616 L1A, 10K
R15A	5D4,14D4,20D4	KS-20616 L1A, 237K
R15B	7D4,16D4,22D4	KS-20616 L1A, 237K
R16A	5F4,14E4,20E4	KS-20616 L1A, 237K
R16B	7F4,16E4,22E4	KS-20616 L1A, 237K
R17A	5E5,14E5,20E5	KS-20616 L1A, 600
R17B	7E5,16E5,22E5	KS-20616 L1A, 600

TRANSFORMER

DESIG	LOC	CODE
T1A	5B5,14B5,20B5	2659D
T1B	7B5,16B5,22B5	2659D
T2A	5E5,14E5,20E5	2659D
T2B	7E5,16E5,22E5	2659D

①APP FIG. 13
(J1P033AD) MOD (D)

RELAY

DESIG	A		B		ENABA		ENABB		ENABAB		TMB					
	AK44				AK44				AK44							
OPTION																
X	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
12	EBM				EBM	10G2			EBM							
11	EBM	10F5			EBM	10G2			EBM							
10	EBM	11B3			EBM	10G2			EBM							
9	EBM	10A4			EBM	10G2			EBM							
8	EBM	10G5			EBM	10G2			EBM	10H3						
7																
6																
5			EBM				EBM	10G2			EBM	10G5				
4			EBM				EBM	10G2			EBM	10H5				
3			EBM	11B4			EBM	10G2			EBM					
2			EBM				EBM	10G2			EBM	10H2				
1			EBM	10H5			EBM	10G2			EBM					
COIL	X	10G6	X	10H6	X	10G5	X	10F5	X	10E5	X	11F3	X		X	

DIODE

	DESIG	LOC	CODE
	A	10G6	533E OR 446F
	B	10H6	
[10]	CR(0-9)D	11(C-F)2	
	ENABA	10E5	
	ENABB	10E5	
[10]	HC(0-9)	10F2	

NETWORK

DESIG	LOC	CODE
ENABA	10D5	185A
ENABAB	10E5	185A
ENABB	10F5	185A
TMB	11F3	185A

ISSUE 7A

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

SHEET 65

SD-1P106-01-C4

APP FIG. 14

(J1P033AD)
MOD ( )

DIODE

DESIG	LOC	CODE
[10] H(0-9)	10G2,12G2	533K
[10] HOLL(0-9)	10H2,12H2	533E OR 446F
[5] SEL(0-4)	10A5,12A5	533K
[5] SEL(5-9)	10C5,12C5	
[5] SELL(5-9)	10C5,12C5	533E OR 446F

NETWORK

DESIG	LOC	CODE
[5] SELL(0-4)	10B5,12B5	185A

SWITCH

DESIG	CODE
LOWER	CA1

SEL MAG (RB OR LT / RT OR LB)	LOC COIL	LOC SEL O.N. CONT	HOLD MAG (B / T)		HOLD O.N. CONTACTS
9	10C5, 12C5	10H5			LOCATION
8	10C5 12C5	10H5	DESIG		0 1 2 3 4 5 6 7 8 9
7	10C5, 12C5	10H5	COIL		10H2,12H
6	10C5, 12C5	10H5	CONT NO.	1,2	10G2,12G2
5	10C5, 12C5	10H5		3,4	11B7,12E4
4	10B5, 12B5	10G5	WIRE	5	10F1,12F1
3	10B5, 12B5	10G5		4	10F1,12F1
2	10B5, 12B5	10G5		3	10F1,12F1
1	10B5, 12B5	10G5		2	10FO,12FO
0	10B5, 12B5	10G5		1	10FO,12FO
				0	10FO,12FO

SWITCH

DESIG	CODE
UPPER	CA1

SEL MAG (RB OR LT / RT OR LB)	LOC COIL	LOC SEL O.N. CONT	HOLD MAG (B / T)		HOLD O.N. CONTACTS
9	10C5, 12C5	10F5			LOCATION
8	10C5 12C5	10F4	DESIG		0 1 2 3 4 5 6 7 8 9
7	10C5, 12C5	10F5	COIL		10G2,12G2
6	10C5, 12C5	10E4	CONT NO.	1,2	10G1,12G1
5	10C5, 12C5	10E5		3,4	
4	10A5, 12A5	10E4	WIRE	5	10C1,12C1
3	10A5, 12A5	10E5		4	10C1,12C1
2	10A5, 12A5	1JE4		3	10C1,12C1
1	10A5, 12A5	10D5		2	10CO,12CO
0	10A5, 12A5	10D4		1	10CO,12CO
				0	10CO,12CO

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT

DWG SIZE 6S | ISSUE 12A

BELL LABORATORIES | SD-1P106-01 | -C5

PART OF APP FIG. 15

(J1P003AX)

RELAY

DESIG	ACC1		ALM		ACC2		ACC3						BIDA		RLSA		BIDB		RLSB		DESIG
CODE	AK44				AK41								AK41				AK41				CODE
OPTION																					OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12			EBM				M	17C1							M	13D1			M	15D1	12
11			EBM				EBM	17D6							EBM	13B1			EBM	15B1	11
10			EBM	15D2			EBM	15F6							EBM	13G6			EBM	15G6	10
9			EBM	13D2			EBM	17C6							EMB	17C3			EMB	17C4	9
8			EBM	17C4			EMB	17E5							EMB	13E3			EMB	15E3	8
7																					7
6																					6
5	EBM	17F4			EMB	13F6							EMB	13D1			EMB	15D1			5
4	EBM				EMB	17E6							EMB	13B3			EMB	15B3			4
3	EBM				EBM	17B6							EBM	13D1			EBM	15D1			3
2	EBM	17D1			EBM	15D3							EBM	13C3			EBM	15C3			2
1	EBM	17B1			M	13D3							M	13C1			M	15C1			1
COIL		17B2		17B5		17C2		17D2						13C3		13E3		15C3		15E3	COIL

RELAY

DESIG	BUSY		NSN						CMA		CMB						DFA		DFB		DESIG
CODE	AK44								AJ81		AJ81						AK44				CODE
OPTION																					OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	EBM	15D1							EBM	14C9	EBM	16C9					EBM	13G3			12
11	EBM								EBM	13C7	EBM	15C7					EBM	13D3			11
10	EBM	17E2							EBM	13E7	EBM	15E7					EBM	13G6			10
9	EBM	17C4							EBM	13F2	EBM	15F2					EBM	13G4			9
8	EBM	13D1							EBM	13E5	EBM	15E5					EBM	13G3			8
7									EBM	13D5	EBM	15D5									7
6									EBM	14G2	EBM	16G2									6
5			EBM	17E2					EBM	14F2	EBM	16F2									5
4			EBM	15E2					EBM	14F1	EBM	16F1							EBM	15G3	4
3			EBM	17F6					EBM	14D1	EBM	16D1							EBM	15D3	3
2			EBM						EBM	14D2	EBM	16D2							EBM	15G6	2
1			EBM	13E2					EBM	14C2	EBM	16C2							EBM	15G3	1
COIL		17C5		17D5						13F3		15F3						13G2		15G2	COIL

RELAY

DESIG	DF1A		DF1B						IDLE A		REQA		IDLEB		REQB						DESIG
CODE	AJ5		AJ5						AK44				AK44								CODE
OPTION																					OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	EBM		EBM						EBM				EBM								12
11	EBM		EBM						EBM				EBM	15E1							11
10	EBM		EBM						EBM	13E1			EBM	15E3							10
9	EBM	13F3	EBM	15F3					EBM	13E3			EBM	15B1							9
8	EBM	14G3	EBM	16G3					EBM	13B1											8
7	EBM	14F3	EBM	16F3																	7
6	EBM	14F3	EBM	16F3																	6
5	EBM	14D3	EBM	16D3							EBM	13F7			EBM	15F7					5
4	EBM	14D1	EBM	16D1							EBM	13F7			EBM	15F7					4
3	EBM	14C2	EBM	16C2							EBM	13F7			EBM	15F7					3
2	EBM	14C2	EBM	16C2							EBM	13E3			EBM	15E3					2
1	EBM	14B3	EBM	16B3							EBM	13G4			EBM	15G4					1
COIL		13D3		15D3						13B2		13F1		15B2		15F1					COIL

RELAY

DESIG	LTA		SPLA		LTB		SPLB								SELA		SELB		SPAA		SPBB		DESIG
CODE	AK44				AK44										AJ81		AJ81		AK44				CODE
OPTION																							OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	EBM	13A6			EBM	15A6									EBM	17F4	EBM	17F5	EBM	13A6			12
11	EBM	14B8			EBM	16D8									EBM	13F7	EBM	15F7	EBM	14B8			11
10	EBM	13A7			EBM	15A7									EBM	13G6	EBM	15G6	EBM	13B7			10
9	EBM	13B6			EBM	15B6									EBM	13G1	EBM	15G1	EBM	13D7			9
8	EBM	13B5			EBM	1585									EBM	13G6	EBM	15G6	EBM	13C8			8
7															EBM		EBM						7
6																							6
5			EBM				EBM								EBM	13F2	EBM	15G2					5
4			EBM				EBM								EBM	17C1	EBM	17C1			EBM	15A6	4
3			EBM				EBM								EBM	13G2	EBM	15G3			EBM	16C8	3
2			EBM				EBM								EBM		EBM				EBM	15B7	2
1			EBM	13F3			EBM	15F3							EBM	13B3	EBM	15B3			EBM	15E5	1
COIL		13C5		13G3		15C5		15G3								13C2		15C2		13C7		15D7	COIL

RELAY

DESIG	SPAB		SPBA		SPEA		SPEB						SPLAA		SPLBA		SPLAB		SPLBB		DESIG
CODE	AK44				AJ81		AJ81						AK44				AK44				CODE
OPTION																					OPTION
	CONT ARR	LOC.	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	EBM	15A6			EBM	13A7	EBM	15F7							EBM				EBM		12
11	EBM	14B8			EBM	14D8	EBM	16D8							EBM	14F5			EBM	16F5	11
10	EBM	15B7			EBM		EBM								EBM	14D5			EBM	16D5	10
9	EBM	15D7			EBM		EBM								EBM	14F3			EBM	16F3	9
8	EBM	15C8			EBM	13B8	EBM	15B8							EBM	14D3			EBM	16D3	8
7					EBM	13C8	EBM	15C8													7
6					EBM	13D5	EBM	15D5													6
5			EBM	13A6	EBM	13D8	EBM	15D8					EBM				EBM				5
4			EBM	14C8	EBM	14F2	EBM	16F2					EBM	14C5			EBM	16C5			4
3			EBM	13B7	EBM	14D3	EBM	16D3					EBM	14A5			EBM	16A5			3
2			EBM	13E5	EBM	14D2	EBM	16C2					EBM	14C3			EBM	16C3			2
1			EBM	13D8	EBM	14A3	EBM	16A3					EBM	14A3			EBM	16A3			1
COIL		15C7		13D7		13D7		15D7						14B9		14D9		16B9			COIL

RELAY

DESIG									TSTA		TSTB										DESIG
CODE									AJ81		AJ81										CODE
OPTION																					OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12									EBM	14G1	EBM	16G1									12
11									EBM	14F1	EBM	16F1									11
10									EBM	14F1	EBM	16F1									10
9									EBM	14D1	EBM	16D1									9
8									EBM	14D1	EBM	16D1									8
7									EBM	14C1	EBM	16C1									7
6									EBM	14C1	EBM	16C1									6
5									EBM	14A1	EBM	16A1									5
4									EBM	13F7	EBM	15F7									4
3									EBM	13D6	EBM	15D6									3
2									EBM	13D2	EBM	15D2									2
1									EBM	13C1	EBM	15C1									1
COIL										13E2		15E2									COIL

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT

DWG SIZE 6S

ISSUE 12A

BELL LABORATORIES | SD-1P106-01 | -C6

PRINTED IN U.S.A.

PART OF APP FIG. 15
(JIP003AK)

DIODE

DESIG	LOC	CODE
ACC1	17B2	
ACC2	17C2	
ACC3	17D2	
ALM	17B5	
BIDA	13C3	
BIDB	15C3	
BUSY	17C5	
CMA	13F3	
CMB	15F3	
CR1A	13C1	
CR1B	15C1	
CR2A	13C1	
CR2B	15C1	
CR3A	13E1	
CR3B	15E1	
CR4A	13B6	
CR4B	15B6	
CR5A	13C7	
CR5B	15C7	
CR6A	13D8	
CR6B	15D8	
CR7A	13D8	
CR7B	15D8	
CR8	17C6	
CR9	17D5	
CR10	17D4	
CR11	17D1	
CR12	17D1	533E
CR13	17D1	
CR14A	13E1	
CR14B	15E1	
CR15A	13E1	
CR15B	15E1	
DF1A	13D3	
DF1B	15D3	
DFA	13G2	
DFB	15G2	
IDLEA	13B2	
IDLEB	15B2	
LTA	13C5	
LTB	15C5	
NSN	17D5	
RLSA	13E3	
RLSB	15E3	
REOA	13F1	
REOB	15F1	
SELA	13B2	
SELB	15B2	
SPAA	13C7	
SPAB	15C7	
SPBA	13D7	
SPBB	15D7	
SPEA	13D7	
SPEB	15D7	
SPLA	13G3	
SPLB	15G3	
SPLAA	14B9	
SPLAB	16B9	
SPLBA	14D9	
SPLBB	16D9	
TSTA	13E2	
TSTB	15E2	

RESISTOR

DESIG	LOC	CODE
R1A	13B2	KS-14603,L3AD,422
R1B	15B2	KS-14603,L3AD,422
R3	17D5	KS-14603,L3AD,902
R4	17F6	KS-14603,L3AD,511

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT		DWG SIZE 6S	ISSUE 7A
BELL LABORATORIES	SD-1P106-01		-C7

APP FIG. 16

RELAY

DESIG	AQ		BQ		A1		A2		A3		A4		A5		A6						DESIG
CODE	AK4				AJ5		AJ5		AJ5		AJ5		AJ5		AJ5						CODE
OPTION																					OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12				24G1	EBM	2485	EBM	2485	EBM	2486	EBM	2486	EBM	2486	EBM	2486					12
11			EBM	24G1	EBM	2485	EBM	2485	EBM	2486	EBM	2486	EBM	2486	EBM	2486					11
10			EBM	24F1	EBM	2485	EBM	2485	EBM	2486	EBM	2486	EBM	2486	EBM	2486					10
9			EMB	24F1	EBM	2485	EBM	2485	EBM	2486	EBM	2486	EBM	2486	EBM	2486					9
8			EMB	24E1	EBM	2485	EBM	2485	EBM	2486	EBM	2486	EBM	2486	EBM	2486					8
7					EBM	2485	EBM	2485	EBM	2486	EBM	2486	EBM	2486	EBM	2486					7
6					EBM	2485	EBM	2485	EBM	2486	EBM	2486	EBM	2486	EBM	2486					6
5	EMB	24D1			EBM	2485	EBM	2485	EBM	2486	EBM	2486	EBM	2486	EBM	2486					5
4	EMB	24C1			EBM	2485	EBM	2485	EBM	2486	EBM	2486	EBM	2486	EBM	2486					4
3	EBM	24C1			EBM	2485	EBM	2485	EBM	2486	EBM	2486	EBM	2486	EBM	2486					3
2	EBM	24B1			EBM	2485	EBM	2485	EBM	2486	EBM	2486	EBM	2486	EBM	2486					2
1	M	24A1			EBM	2485	EBM	2485	EBM	2486	EBM	2486	EBM	2486	EBM	2486					1
COIL		24A1		24D1		24A1		24B1		24B1		24C1		24D1							COIL

RELAY

DESIG	B1		B2		B3		B4		B5		B6				ENO						DESIG
CODE	AJ5		AJ5		AJ5		AJ5		AJ5		AJ5				AF59						CODE
OPTION																					OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	EBM	2486	EBM	2486	EBM	2486	EBM	2486	EBM	2485	EBM	2485									12
11	EBM	2486	EBM	2486	EBM	2486	EBM	2486	EBM	2485	EBM	2485									11
10	EBM	2486	EBM	2486	EBM	2486	EBM	2486	EBM	2485	EBM	2485			M	24H1					10
9	EBM	2486	EBM	2486	EBM	2486	EBM	2486	EBM	2485	EBM	2485									9
8	EBM	2486	EBM	2486	EBM	2486	EBM	2486	EBM	2485	EBM	2485			M	24H1					8
7	EBM	2486	EBM	2486	EBM	2486	EBM	2486	EBM	2485	EBM	2485									7
6	EBM	2486	EBM	2486	EBM	2486	EBM	2486	EBM	2485	EBM	2485			M	24D1					6
5	EBM	2486	EBM	2486	EBM	2486	EBM	2486	EBM	2485	EBM	2485									5
4	EBM	2486	EBM	2486	EBM	2486	EBM	2486	EBM	2485	EBM	2485			M	24A1					4
3	EBM	2486	EBM	2486	EBM	2486	EBM	2486	EBM	2485	EBM	2485									3
2	EBM	2486	EBM	2486	EBM	2486	EBM	2486	EBM	2485	EBM	2485									2
1	EBM	2486	EBM	2486	EBM	2486	EBM	2486	EBM	2485	EBM	2485									1
COIL		24E1		24E1		24F1		24F1		24F1		24G1				24G1					COIL

RELAY

DESIG	EN1		EN2	
CODE	AJ202		AJ202	
OPTION				
	CONT ARR	LOC	CONT ARR	LOC
24	M	24A5	M	2485
23	M	24A5	M	2485
22	M	24A5	M	2485
21	M	24A5	M	2485
20	M	24A5	M	2485
19	M	24A5	M	2485
18	M	24A5	M	2485
17	M	24A5	M	2485
16	M	24A5	M	2485
15	M	24A5	M	2485
14	M	24A5	M	2485
13	M	24A5	M	2485
12	M	24A5	M	2485
11	M	24A5	M	2485
10	M	24A5	M	2485
9	M	24A5	M	2485
8	M	24A5	M	2485
7	M	24A5	M	2485
6	M	24A5	M	24C5
5	M	24A5	M	2485
4	M	24A5	M	2485
3	M	24A5	M	2485
2	M	24A5	M	2485
1	M	24A5	M	2485
COIL		24H1		24H1

DIODE

DESIG	LOC	CODE
CR1	24A1	533E
CR2	24B1	533E
CR3	24E1	533E
CR4	24E1	533E

NETWORK

DESIG	LOC	CODE
AQ	24A1	185A
A1	24A1	
A2	24B1	
A3	24B1	
A4	24C1	
A5	24C1	
A6	24D1	
BQ	24D1	
B1	24C1	
B2	24E1	
B3	24F1	
B4	24F1	
B5	24F1	
B6	24G1	
ENO	24G1	
EN1	24H1	
EN2	24H1	

APP FIG. 17

ED-1P572-( )

RELAY

DESIG	FA	
CODE	AF59	
OPTION		
	CONT ARR	LOC
12		
11		
10	M	
9		
8	M	25E1
7		
6	M	25D1
5		
4	M	25C1
3		
2		
1		
COIL		25B1

FUSE

DESIG	LOC	CODE
FA1-FA10	25G2, 25D2	70A

LAMP

DESIG	LOC	CODE
FA	25C1	2Y LAMP E/W 66A LAMP CAP

NETWORK

DESIG	LOC	CODE
FA	25B1	185A

APP FIG. 18

(J1P033AK)

RELAY

DESIG	RTLA		TLA		RTLB		TLB	
CODE	AK7				AK7			
OPTION								
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
12	EBM	25D6			EBM	25E6		
11	EBM	25D5			EBM	25F5		
10	EBM	25C5			EBM	25E5		
9	EM	25C6			EM	25E6		
8	EM	25A6			EM	25B6		
7								
6								
5			EM				EM	
4			EM				EM	
3			EBM	25D5			EBM	25E5
2			EBM	25C5			EBM	25E5
1			EBM	25A6			EBM	25B6
COIL		25C7		25B7		25C7		25B7

DIODE

DESIG	LOC	CODE
RTLA	25C7	533F
RTLB	25C7	533F
TLS	25A7	813AH
TL6	25B7	813AH
TLA	25C7	533F
TLB	25C7	533F

RESISTOR

DESIG	LOC	CODE
TLA	25A6	KS-14603,L6CC
TLB	25B6	KS-14603,L6CC

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT

DWG SIZE: 6S

ISSUE: 13AC

BELL LABORATORIES | SD-1P106-01 | -C8

CIRCUIT NOTES:

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER
A	1-1/3	-48V	APP FIG. 1 & 4
B	1-1/3	-48V	APP FIG. 1 & 4
C	3	-48V	APP FIG. 5 & 7-10
C	3	-48V	APP FIG. 15 & 18
D	1-1/3	-48V	APP FIG. 1 & 4
E	1-1/3	-48V	APP FIG. 1 & 4
F	1-1/3	-48V	APP FIG. 1 & 4
G	1-1/3	-48V	APP FIG. 1 & 4
H	1-1/3	-48V	APP FIG. 1 & 4
J	1-1/3	-48V	APP FIG. 13 & 14
	1-1/3	+24V	APP FIG. 5 & 7-10
K	1-1/3	-48V	(D) APP FIG. 16
	0.250	+130V	APP FIG. 5 & 7-10
A		GRD	APP FIG. 1 & 4
B		GRD	APP FIG. 1 & 4
C		GRD	APP FIG. 5 & 7-10
C		GRD	APP FIG. 15 & 18
D		GRD	APP FIG. 1 & 4
E		GRD	APP FIG. 1 & 4
F		GRD	APP FIG. 1 & 4
G		GRD	APP FIG. 1 & 4
H		GRD	APP FIG. 1 & 4
J		GRD	APP FIG. 5 & 7-10
K		GRD	APP FIG. 13 & 14
		GRD	D APP FIG. 16

SEE NOTE 204

BATTERY SYMBOL	VOLTAGE RANGE
-48	-43 TO -53V
+24	+22.5 TO +25.5V
+130	+120 TO +140V

APP FIG.	QTY	NAME	TOTAL CURRENT DRAIN IN AMPERES -48V LIST 1 * BATTERY	IDLE BATTERY	LIST 2 ** BATTERY	LIST 2 ** BATTERY GRD
1,2 OR 1,2 & 3	1	LOCAL TEST PORT	N/A	N/A	N/A	N/A
4	1	DISTRIBUTING NETWORK	.030	0	.050	0
5,6,9, 10,12	1	RELAY CONTROL UNIT	1.0	.1	1.0	1.0
7	1		.1	.05	.125	.125
13 & 14	1	STAGE ONE DISTRIBUTION MODULE (O)	.75	0	1.0	.5
14	1	STAGE ONE DISTRIBUTION MODULE ( )	.75	0	1.0	0
15 & 18	1	RELAY CONTROL UNIT	1.0	.1	2.4	2.4
16	1	MAINT CONN NETWORK INTERFACE	.30	.15	.45	.60

* LIST 1 SMAS BUSY HOUR CURRENT DRAINS FOR BATTERY PLANT DO NOT NECESSARILY CORRESPOND TO OFFICE "BUSY HOUR".

** LIST 2 PEAK CURRENT FOR DISTRIBUTION EQUIPMENT.

CIRCUIT NOTES: (CONT)

102.

FEATURE OR OPTION			APP FIG.	PROVIDE APP OR WRG	QUANTITY
LOCAL TEST PORT (J1P033 AA) (MFR DISC.)	STAND ALONE	TYPE 3 OR 4 MTCE CONN ONLY	1,2	W,R	MIN. ONE PER SYSTEM SEE NOTE 115
		TYPE 1,2, 3 OR 4 MTCE CONN	1,2, 3	W,S	
	RTS 5A	TYPE 3 OR 4 MTCE CONN ONLY	1,2	V,R	
		TYPE 1,2, 3 OR 4 MTCE CONN	1,2 3	V,S	
DISTRIBUTING NETWORK (J1P033AB) (NOT PROVIDED WITH TYPE 4 MC AND MC CONTROLLER) SEE 908			4		ONE PER MAX. FIVE MTCE CONN (TYPES 1,2,OR 3 ONLY)
RELAY CONT UNIT (J1P033 AC)	STAND ALONE	TYPE 3 OR 4 MTCE CONN ONLY	5,6, 9,12	A, W,R,J	ONE PER LOCAL TEST PORT J1P033AA (MFR DISC.) SEE NOTE 116,208
		TYPE 1,2,3,OR 4 MTCE CONN	5,6,9, 10,12	A W,S,J	
	RTS 5A	TYPE 3 OR 4 MTCE CONN ONLY	5,6, 12	V,R,J	
		TYPE 1,2,3,OR 4 MTCE CONN	5,6, 10,12	V,S,J	
	STAND ALONE SMAS 5A TYPE 1,2,3,OR 4 MTCE CONN		5,6, 9,10, 12	S,J, F	ONE PER JK,KEY,LP CKT SD-99645-01 SEE NOTE 116,207,208
	+24VDC OBTAINED FROM (SEE NOTE 107)	+24VDC OFF. BAT.		Z	1 PER CKT
		+130VDC OFF. BAT.	7	Y	
		-48VDC OFF. BAT.	8	X	
LTP CONT UNIT (J1P033 AK)	RTS 5A		12, 15		ONE PER JACK KEY & LAMP CKT SD-99645-01 SEE NOTE 115
RTS 5A CONTROL CKT (SEE NOTE 118)				V,ZG	1 PER CKT
STANDALONE SMAS 5A (SEE NOTES 118,119,121,122)				W,ZE, ZF,ZH	
LOCAL ALARM RELAY (SEE NOTE 202)			11		1 PER CRP
STAGE ONE DISTRIBUTION MODULE (O)			13, 14	T,Q	SEE NOTE 110,111
STAGE ONE DISTRIBUTION MODULE ( )			14	Q	SEE NOTE 110,111
DISTRIBUTING NETWORK USED WITH	TYPE 2 MTCE CONN WITH TYPE 2 MANUAL ACCESS CKT			1	AS REQUIRED
	REMOTE MAINTENANCE LOOP CIRCUIT SD-1P111-01			M	
RELAY J1P033AC CONT. UNIT OR J1P033AK	JACK SLEEVE GROUNDING ON JK,KEY,LP UNIT			E	AS REQUIRED
MAINTENANCE CONNECTOR NETWORK INTERFACE CIRCUIT			16	D	AS REQD SEE NOTE 117
FUSE & ALARM CKT (FOR FR ARGT)			17		AS REQD
TERMINATE AND LEAVE	REQUIRED		18	ZB	1 PER CKT
	NOT REQUIRED			ZA	
CONNECTION TO AUXILIARY NETWORK CIRCUIT FOR USE WITH 53A TEST POSITION REQUIRED				ZC	

CIRCUIT NOTES: (CONT)

103.

NETWORK VALUES		
NETWORK NO.	RESISTANCE IN OHMS	CAPACITANCE IN UF
1	470	0.11

104.

RECORD OF APP. FIGURES, WIRING AND APPARATUS CHANGED							
CHANGED ON ISSUE	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT STD	A&M	MD
2A	FIG. 12	NONE	102	FIG. 12		
4B	FIG. 13,14	NONE	102	FIG.13,14		
6A	N OR M	NONE	102, 124, 205	N,M		
	J	K	102, 203	J		K
	G	NONE	205	G		
	E OR F	NONE	205	E OR F		
	D	NONE	117	D		
	S OR R	S		S		R
8B	FIG.17	NONE	102	FIG.17		
9AC	B OR A	NONE		A		B
10B	ZA OR FIG. 18	ZA	102	ZA, FIG. 18		
	ZB	NONE	102, 120	ZB		
	ZC	NONE	102	ZC		
13AC	ZD OR ZE	W OR V	102, 123	ZE		ZD
	ZF, ZG, ZH	ZG	102, 122, 123	ZF, ZG, ZH		

CIRCUIT NOTES: (CONT)

105. EACH DISTRIBUTION NETWORK ACCESSES A MAXIMUM OF FIVE MAINTENANCE CONNECTORS.

106. 1-1/3 AMP FUSE REQUIRED PER MAINTENANCE CONNECTOR.

107. +24 VDC POWER MAY BE PROVIDED BY ANY ONE OF THESE OPTIONS.

108. PRIOR TO ISSUE 6B, SMAS 5 WAS LIMITED TO A MAXIMUM OF 400 MAINTENANCE CONNECTORS, AND UTILIZED A FOUR DIGIT SMAS NUMBER TO IDENTIFY AN ACCESS POINT. THE MAINTENANCE CONNECTORS WERE ORGANIZED INTO FOUR NETWORK QUADRANTS, EACH OF WHICH CONTAINED A MAXIMUM OF 100 MAINTENANCE CONNECTORS. QUADRANTS WERE IDENTIFIED WITH LETTER SUFFIXES A,B,C AND D, AND THESE CORRESPONDED TO A NUMBER RANGE OF 01-24, 25-48, 49-72, AND 73-96, RESPECTIVELY, FOR THE TWO LEAST SIGNIFICANT DIGITS. WITHIN THESE NUMBER RANGES, THE TWO LEAST SIGNIFANT DIGITS IDENTIFIED 1 OF 24 ACCESS POINTS WITHIN THE MAINTENANCE CONNECTOR. THE TWO MOST SIGNIFICANT DIGITS IDENTIFIED 1 OF 100 MAINTENANCE CONNECTORS WITHIN A QUADRANT. STARTING WITH THIS ISSUE 6B, SMAS 5A/5B HAS BEEN EXPANDED TO A MAXIMUM OF 1600 MAINTENANCE CONNECTORS, AND A FIVE-DIGIT SMAS NUMBER IS REQUIRED TO IDENTIFY AN ACCESS POINT. FOR MAINTENANCE CONNECTOR ACCESS IN SMAS 5A OR 5B, THE MOST SIGNIFICANT DIGIT OF THIS SET IS RESTRICTED TO THE DIGITS 5,6,7, OR 8, AND IT IDENTIFIES A FIRST DIGIT GROUP OF FOUR QUADRANTS A,B,C,D. WITHIN A FIRST DIGIT GROUP, THE OTHER FOUR DIGITS RETAIN THE SAME DEFINITIONS AS THOSE WHICH APPLIED TO THE FOUR DIGIT SMAS NUMBER PRIOR TO ISSUE 6B. FOR CONNECTOR GROUP ACCESS IN SMAS 5B, THE MOST SIGNIFICANT DIGIT IS RESTRICTED TO THE DIGITS 0,1,2,3, AND EACH OF THESE FIRST DIGIT GROUPS A SWITCH CONNECTOR/ CONNECTOR GROUP ARRANGEMENT OF 10,000 SMAS NUMBERS.

109. ASSIGNMENT OF TMB AND GTG ADDRESSES IS PERFORMED BY LOCAL STRAPPING ON THE DISTRIBUTION NETWORK ACCORDING TO CIRCUIT ASSIGNMENT CHART SHOWN IN FS 2.

110. EACH STAGE ONE DISTRIBUTION MODULE (O) PROVIDES ACCESS FOR TEN (10) PORTS TO CONNECT TO TEN (10) DISTRIBUTING NETWORKS. FOR ADDITIONAL PORTS STAGE ONE DISTRIBUTION MODULE ( ) MAY BE ADDED.

111. ASSIGNMENT OF GTB AND TMB ADDRESSES IS PERFORMED BY LOCAL STRAPPING ON THE STAGE ONE DISTRIBUTION MODULE ACCORDING TO CAD 23.

112. THE DISTANCE BETWEEN A LOCAL TEST PORT PANEL AND ITS CORRESPONDING RELAY CONTROL PANEL SHALL NOT EXCEED 25 FEET.

113. THE CABLING DISTANCE BETWEEN ANY (LOCAL OR REMOTE) TEST PORT AND THE FURTHEST MAINTENANCE CONNECTOR SHALL NOT EXCEED 51 OHMS LOOPED (1000 FT OF 24 GAUGE CABLE).

114. WHEN TYPE 2 MAINTENANCE CONNECTORS ARE USED WITH THIS SYSTEM, THE TYPE 2 CONNECTOR SHALL BE PROVIDED WITH AN OPEN CLASS MARK AND WITHOUT COMPENSATION PER SD-1C454, OPTIONS S AND -Z.

115. USE OF RELAY CONTROL UNIT J1P033AC WITH LOCAL TEST PORT J1P033AA OR JACK KEY AND LAMP CIRCUIT J99359AP FOR RTS 5A IS DISCONTINUED WITH THE AVAILABILITY OF RELAY CONTROL UNIT J1P033AK.

116. FS 11,12,13 WHICH USE THE JACK, KEY, AND LAMP CIRCUIT, SD-99645-01, REPLACES FUNCTIONS COVERED BY FS 1,3,4, WHICH USES THE J1P033AA LOCAL TEST PORT PANEL, ON AN AFTER DATE STANDARD BASIS (SEE NOTE 209).

117. MAINTENANCE CONNECTOR NETWORK INTERFACE CONTROL AND EXPANSION STEERING CIRCUIT (D) OPTION IS FOR USE WITH RTS CONTROL CIRCUIT (V) OPTION.

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT

DWG SIZE 6S | ISSUE 145

BELL LABORATORIES | SD-1P106-01 | -DIA

CIRCUIT NOTES: (CONT)

118. (V) OPTION IS REQUIRED FOR ALL SMAS 5A/5B INSTALLATIONS WHICH UTILIZE THE SMAS 5A/5B RTS 5A CONTROL CKT TO OPERATE THE LOCAL TEST PORTS. THIS INCLUDES ALL COMBINED SMAS 5/RTS 5 SYSTEMS, ALL STANDALONE SMAS 5B SYSTEMS, AND ALL STANDALONE SMAS 5A SYSTEMS WHICH REQUIRE MORE THAN 100 MAINTENANCE CONNECTORS.

119. (W) OPTION MAY BE USED FOR SMALL SMAS 5A INSTALLATIONS WHICH DO NOT REQUIRE THE USE OF THE SMAS 5A/5B RTS 5A CONTROL CIRCUIT TO CONTROL THE LOCAL TEST PORTS. THIS OPTION IS LIMITED TO STANDALONE SMAS 5A SYSTEMS WITH A MAXIMUM OF 100 MAINTENANCE CONNECTORS.

120. (ZB) OPTION IS REQUIRED FOR ALL INSTALLATIONS WHICH UTILIZE THE TERMINATE AND LEAVE CIRCUIT SD-1P158-01.

121. THIS STRAP MUST BE LEFT IN PLACE UNTIL ALL STAGE ONE DISTRIBUTION NETWORKS IN THE SMAS MAINTENANCE CONNECTOR NETWORK HAVE HAD DIODES H(0-9) ADDED AND "UPPER HOLD O.N." CONTACT 1 WITH ASSOCIATED WIRING TO THE "H OR HI" AND "SEL" LEADS. AND THE INTERFACE CIRCUIT HAS BEEN MODIFIED TO ADD "SEL" LEADS, AND IF J1P033AC IS FURNISHED IT MUST BE MODIFIED TO PROVIDE THE "SEL" LEADS AND THE ASSOCIATED FIRMWARE ADDED.

122. (ZF) AND (ZH) OPTIONS MUST BE PROVIDED FOR ALL STANDALONE UNITS USING J1P033AC. WHEN RTS OPERATION IS ADDED THEN THE (ZH) OPTION STRAP ON THE RELAY RELEASE TIME EXTENDER IS REMOVED AT THE TERMINAL STRIP.

123. PRIOR TO ISSUE 13AC (ZD) OPTION WAS PART OF (W) OPTION AND (ZE) OPTION WAS PART OF (V) OPTION.

124. BEGINNING WITH ISSUE 6B OPTIONS (M) AND (N) ARE PROVIDED AS AN AFTER DATE STANDARD.

125. PRIOR TO ISSUE 14B; IN APP. FIG. 4, DIODES 446F AND 533E WERE NOT LINED OUT AND DIODE 533K WAS NOT SHOWN.

126. WITHIN THE SAME SMAS 5 SYSTEM MULTIPLE AS FOLLOWS:

A. IF EQUIPPED WITH STAGE 1 DISTRIBUTION MODULE MULTIPLE TO ALL STAGE 1 DISTRIBUTION MODULES.

B. IF NOT EQUIPPED WITH STAGE 1 DISTRIBUTION MODULE MULTIPLE TO ALL DISTRIBUTION NETWORKS AND/OR MAINTENANCE CONNECTOR CONTROL CIRCUITS SD-1P170-01.

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT		DWG SIZE 6S	ISSUE 14B
BELL LABORATORIES	SD-1P106-01		-D1B

EQUIPMENT NOTES:

201. CONNECTORIZED CABLES SHALL BE AS LISTED BELOW.

A25U TYPE OR EQUIVALENT:

TO MATE WITH J27,28,29,30 CONNECTIONS OF J98622BL.

A25S TYPE OR EQUIVALENT:

TO MATE WITH J34,35 CONNECTORS OF J98622BL.

B25F TYPE OR EQUIVALENT:

TO MATE WITH J33 CONNECTOR OF J98622BL.

A25C TYPE OR EQUIVALENT:

TO MATE WITH OTHER CONNECTORS

ADDITIONAL INFORMATION OR INTERCONNECTION OF SMAS UNITS MAY BE FOUND IN ED-1P465-01 AND SD-1P138-01.

202. MOUNT ON MISC BASIS AS REQUIRED.

203. J OPTION TERMINATES INDICATED APPARATUS AT TERMINALS ON TERMINAL STRIP WHERE V OR W OPTION IS PROVIDED BY STRAPS. K OPTION PROVIDES V OR W OPTION BY WIRING DIRECTLY FROM APPARATUS TERMINAL TO APPARATUS TERMINAL.

204. THESE FUSES AND ASSOCIATED LEADS ARE NOT FURNISHED WHEN THE MAINTENANCE CONNECTORS ARE POWERED FROM OTHER SOURCES.

205. G OPTION SHALL BE ADDED WHENEVER M OPTION IS ADDED IN THE FIELD. WHENEVER G,M, AND N OPTIONS MUST BE ADDED IN THE FIELD, ALL THREE SHALL BE ADDED. THESE OPTIONS NEED BE PROVIDED ONLY IN THOSE DISTRIBUTION NETWORKS:

1.) ASSOCIATED WITH REMOTE MAINTENANCE LOOP CKT. (DN NOS. 500A, 501A, 510A, 511A)

2.) ASSOCIATED WITH TYPE 2 MAINTENANCE CONNECTORS HAVING TYPE 2 MANUAL ACCESS PANEL.

206. F OPTION TERMINATES INDICATED APPARATUS AT TERMINAL STRIP. E OPTION PROVIDES GROUNDING BY STRAP.

207. CONNECT INTERFACE UNITS 0,1,2,3,4 TO J6,7,8,9,10 CONNECTORS RESPECTIVELY ON STAGE ONE DISTRIBUTION UNIT 502A AND INTERFACE UNITS 5,6,7,8,9 TO J6,7,8,9,10 CONNECTORS RESPECTIVELY ON STAGE ONE DISTRIBUTION UNIT 512A.

208. STANDALONE SMAS 5A INSTALLATIONS WITHOUT AN ASSOCIATED SMAS 5A/B-RTS 5A CONTROLLER (J1P033A OR J1P033C FRAME) REQUIRE THE J1P033AC AND J99359AP UNITS FOR LOCAL TEST PORTS. SMAS 5A INSTALLATIONS MAY RETAIN EXISTING J1P033AC UNITS WHEN OPERATED BY THE SMAS 5A/B-RTS 5A CONTROLLER. J1P033AA UNITS, RATED MD, MAY BE RETAINED IN SMAS 5A INSTALLATIONS NOT REQUIRING GROWTH EXCEEDING 400 MAINTENANCE CONNECTORS (19,200 EQUIVALENT 2-WIRE ACCESS POINTS). ALL SMAS 5B INSTALLATIONS, NEW SMAS 5A INSTALLATIONS, AND LOCAL PORT ADDITIONS TO EXISTING SMAS 5A/B INSTALLATIONS CONTROLLED BY THE SMAS 5A/B-RTS 5A CONTROLLER REQUIRE J1P033AK AND J99359AP UNITS FOR LOCAL TEST PORTS.

209. APP. FIG. 5,6,9,10,12 AND THE J1P033AC RELAY CONTROL UNIT ARE UNAFFECTED BY THE REPLACEMENT OF FS-1,3,4 WITH FS 11,12,13 AND THE JACK, KEY & LAMP CIRCUIT SD-99645-01.

210. WHEN DDS CIRCUITS ARE TO BE ACCESSED AT THE DSØA LEVEL VIA TYPE 3 MAINTENANCE CONNECTORS (* OPTION), THE FOLLOWING LEAD LENGTH CONSTRAINTS ARE IMPOSED UPON THE SMAS 5A/5B NETWORK:

(A) THE MAXIMUM WIRING DISTANCE BETWEEN AN OPTION Y MAINTENANCE CONNECTOR AND A REMOTE TEST PORT UNIT MUST NOT EXCEED 750 FEET.

(B) THE WIRING DISTANCE ASSOCIATED WITH THE STAGE ONE DISTRIBUTION NETWORK PANEL (S1DP) COMPLEX MUST BE CONSTRAINED SUCH THAT THE DISTANCE FROM THE FIRST S1DP WITH AN ASSOCIATED OPTION Y MAINTENANCE CONNECTOR TO THE LAST S1DP IN THE COMPLEX IS NO GREATER THAN 300 FEET.

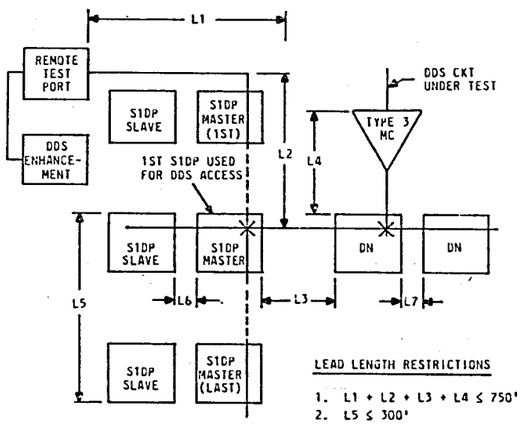
(C) FOR A S1DP WITH AN ASSOCIATED DSØA ACCESS POINT, THE WIRING DISTANCE BETWEEN THE S1DP MASTER AND ITS SLAVE UNIT MUST NOT EXCEED 50 FEET.

(D) THE WIRING DISTANCE FROM ANY DISTRIBUTION NETWORK (DN) WITH ASSOCIATED OPTION Y MAINTENANCE CONNECTOR TO THE LAST DN ON THAT S1DP LEVEL MUST NOT EXCEED 50 FEET.

SINCE THE CONSTRAINTS ARE BASED UPON THE IMPEDANCE CHARACTERISTICS OF 24 GAUGE CABLE, HIGHER GAUGE (SMALLER DIAMETER) WIRE SHOULD NOT BE USED. REFER TO THE DIAGRAM IN FIG. A FOR A GRAPHIC DEFINITION OF THE LEAD LENGTH RESTRICTIONS.

EQUIPMENT NOTES: (CONT)

210. (CONT)



LEAD LENGTH RESTRICTIONS

1. L1 + L2 + L3 + L4 ≤ 750'
2. L5 ≤ 300'
3. L6 ≤ 50'
4. L7 ≤ 50'

FIG. A SMAS NETWORK DSØA DISTANCE RESTRICTIONS

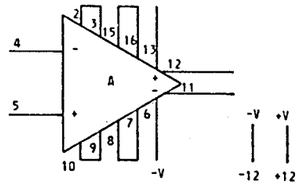
211. DIGITAL TEST ACCESS CONNECTORS (DTAC) AND DISTRIBUTION NETWORKS (DN) SHOULD NOT BE CONNECTED TO THE SAME LEVEL OF ANY STAGE 1 DISTRIBUTION NETWORK PANEL (S1DP).

INFORMATION NOTES:

301. UNLESS OTHERWISE SPECIFIED: RESISTANCE VALUES ARE IN OHMS, CAPACITANCE VALUES ARE IN MICROFARADS, VALUES PRECEDED BY THE SYMBOL + (PLUS) OR - (MINUS) ARE IN VOLTS.

302. INTEGRATED CIRCUITS

(A) 502AH, OPERATIONAL AMPLIFIER



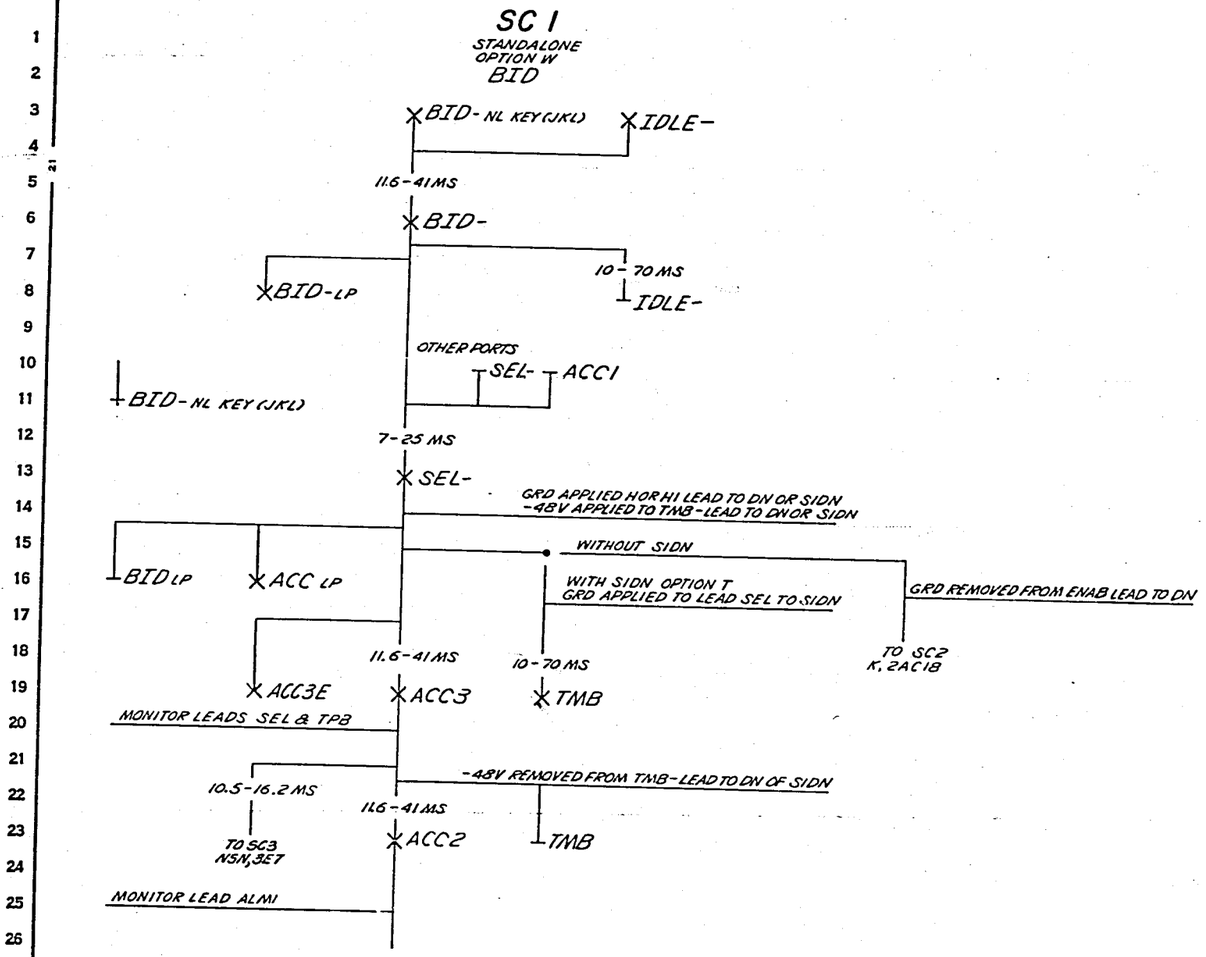
INPUT/OUTPUT INFORMATION

THIS DEVICE CONTAINS A BALANCED AMPLIFIER WHICH FEATURES DIFFERENTIAL INPUTS (PIN 4 AND PIN 5) AND OUTPUTS (PIN 12 AND PIN 11).

CIRCUIT DESCRIPTION

THIS DEVICE IS A DUAL INPUT DUAL OUTPUT VOICE FREQUENCY OPERATIONAL AMPLIFIER.

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT		DWG SIZE 6S	ISSUE 14B
BELL LABORATORIES	SD-1P106-01		-D2



DRAWING ISSUE

ISSUE 14B

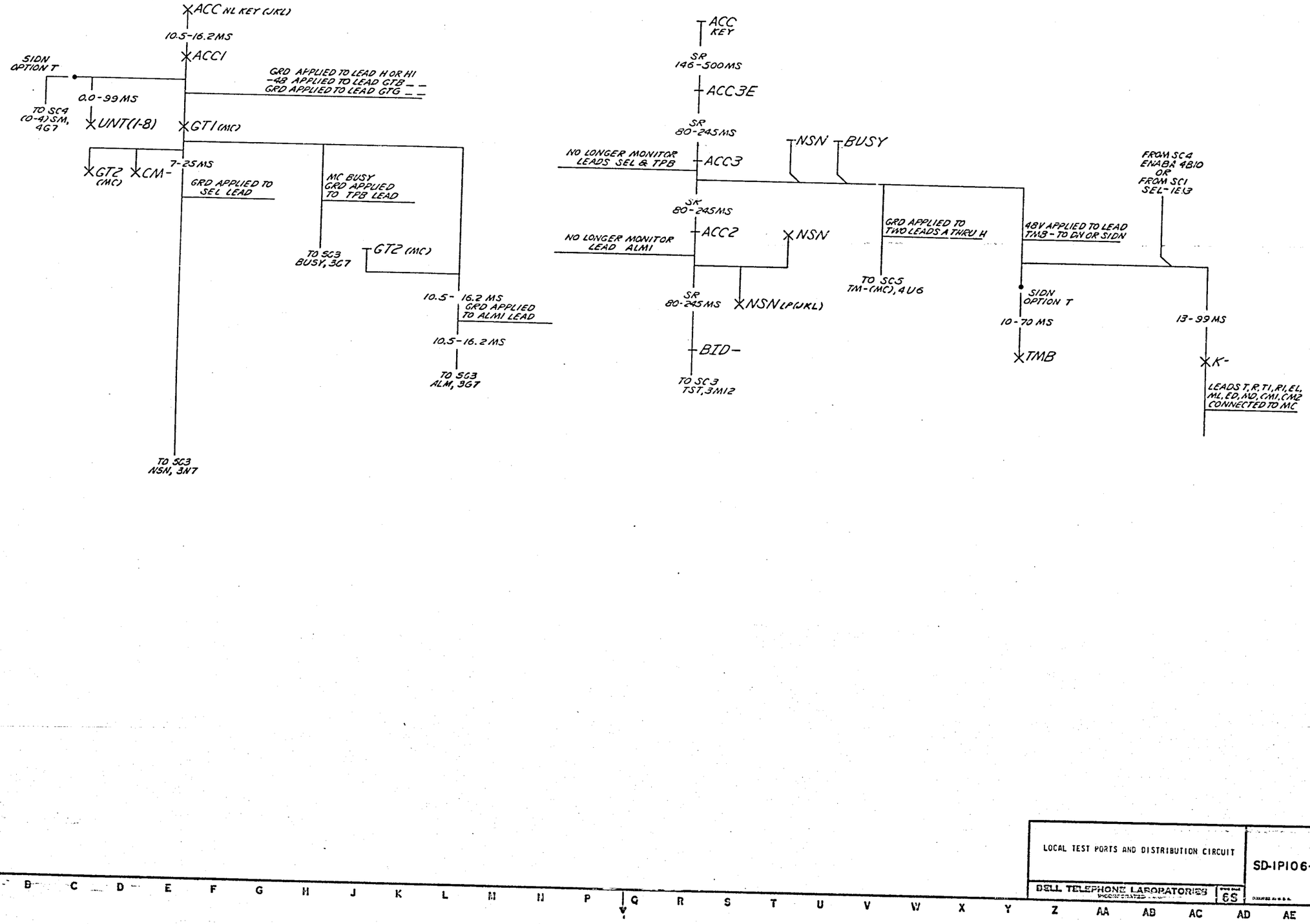
LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

6S

SD-1P106-01-E1

SC2
STANDALONE
OPTION W
ACCESS



DRAWING ISSUE

ISSUE 14B

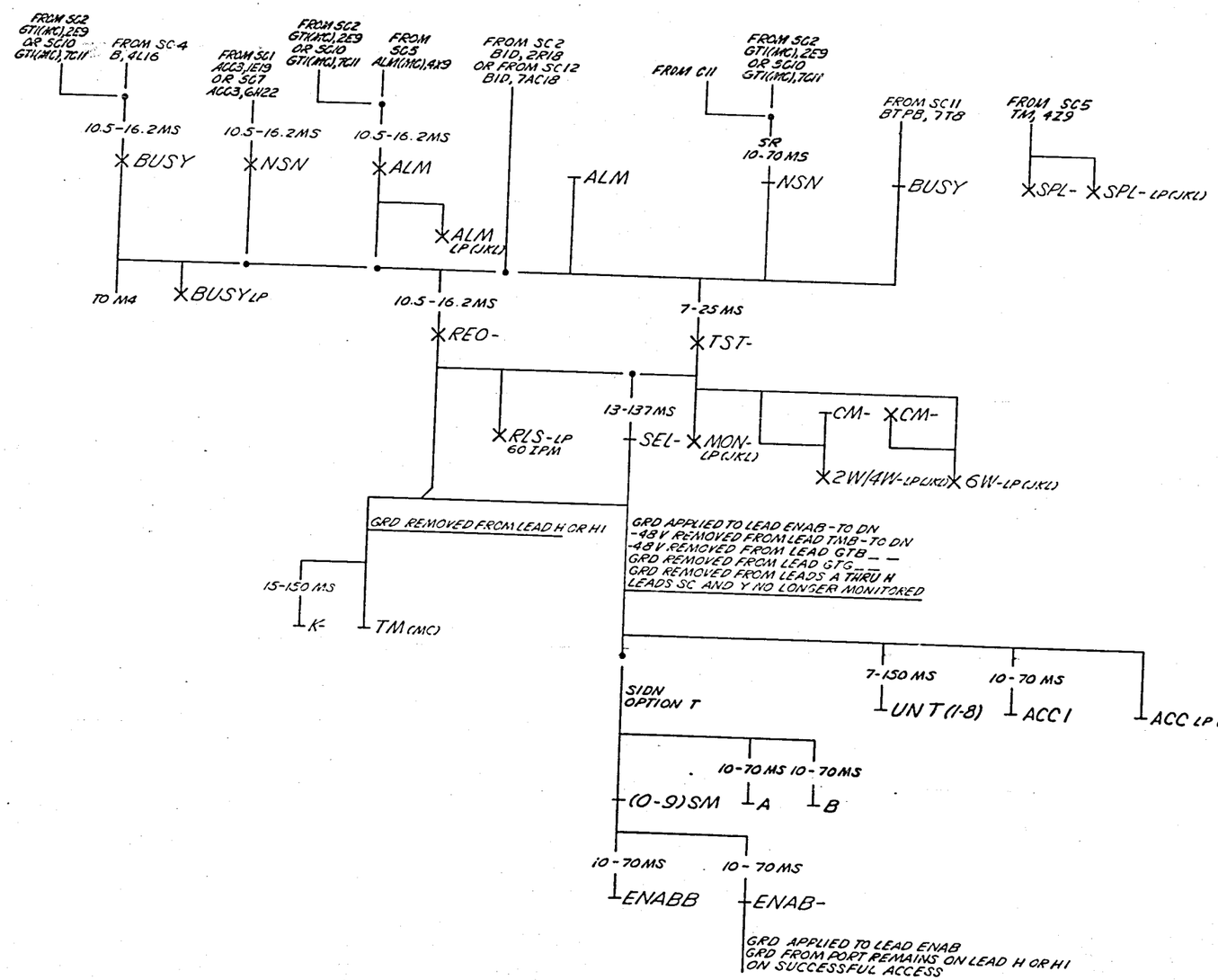
LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

65

SD-1P106-01-E2

SC 3
REORDER OR TEST SELECTION



DRAWING ISSUE

ISSUE NO 14B

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT

SD-1P106-01-E3

BELL TELEPHONE LABORATORIES INCORPORATED

165

SC4
STAGE 1 DISTRIBUTION NETWORK
OPTION T

FROM SC 10
ENL, TC7
FROM SC 2
ACC1, 2E6

FROM SC 9
A1-6, 6T33
OR Y(CONT), 6K23

15-45 MS
(0-4) SM
"A" PATH BUSY

10.5-16.2 MS ENABA
10.5-16.2 MS ENABAB
10.5-16.2 MS A

15-45 MS
(5-9) SM

4-16 MS
(0-4) SM

"B" PATH BUSY

10.5-16.2 MS ENABAB
10.5-16.2 MS ENABB
10.5-16.2 MS B
10-70 MS ENABA
10-70 MS ENABAB

TO SC 3
BUSY, 3C7

"A" PATH BUSY

"A" PATH IDLE

GRD REMOVED FROM LEAD ENAB TO DN (OR ONLY TO DS) GRD APPLIED TO LEAD H OR HI TO DN (OR ONLY TO DS)

GRD RESTORED TO LEAD ENAB TO DN GRD REMOVED FROM LEAD ENAB TO DN

"A" PATH IDLE

GRD REMOVED FROM LEAD ENAB TO DN (OR ONLY TO DS) GRD APPLIED TO LEAD H OR HI TO DN (OR ONLY TO DS)

"A" PATH BUSY

TO SC 2
K, 2AC18

FROM SC 11
T(CONT), 7S8

10-70 MS
TMB

FROM SC 7
SEL, GD18
OR FROM SC 11
SEL(RTP), 7A5

24-49 MS
(0-9) HM

LEADS T, R, TI, RI, EL, ML
ED, MD, CMI, CM2
CONNECTED TO DN
(OR ONLY TO DS WHEN REQD)

SC5
MAINTENANCE CONNECTOR

FROM SC 11
A THRU H (CONT), TH5
OR FROM SC 2
ACC3, 2R10

TYPE 3 MC

TM-(MC)

MORE THAN ONE TM - OPERATES

ALM (MC)

TYPE 4 MC

TYPE 2 MC
A THRU H (MC)

LESS OR MORE THAN TWO A THRU H OPERATE

SO

ALM (MC)

TM-(MC)

TO SC 3
ALM, 3G7

SPECIAL CIRCUIT
GRD APPLIED TO LEAD SC

TO SC 3
SPL; 3S7

DRAWING ISSUE

ISSUE 14B

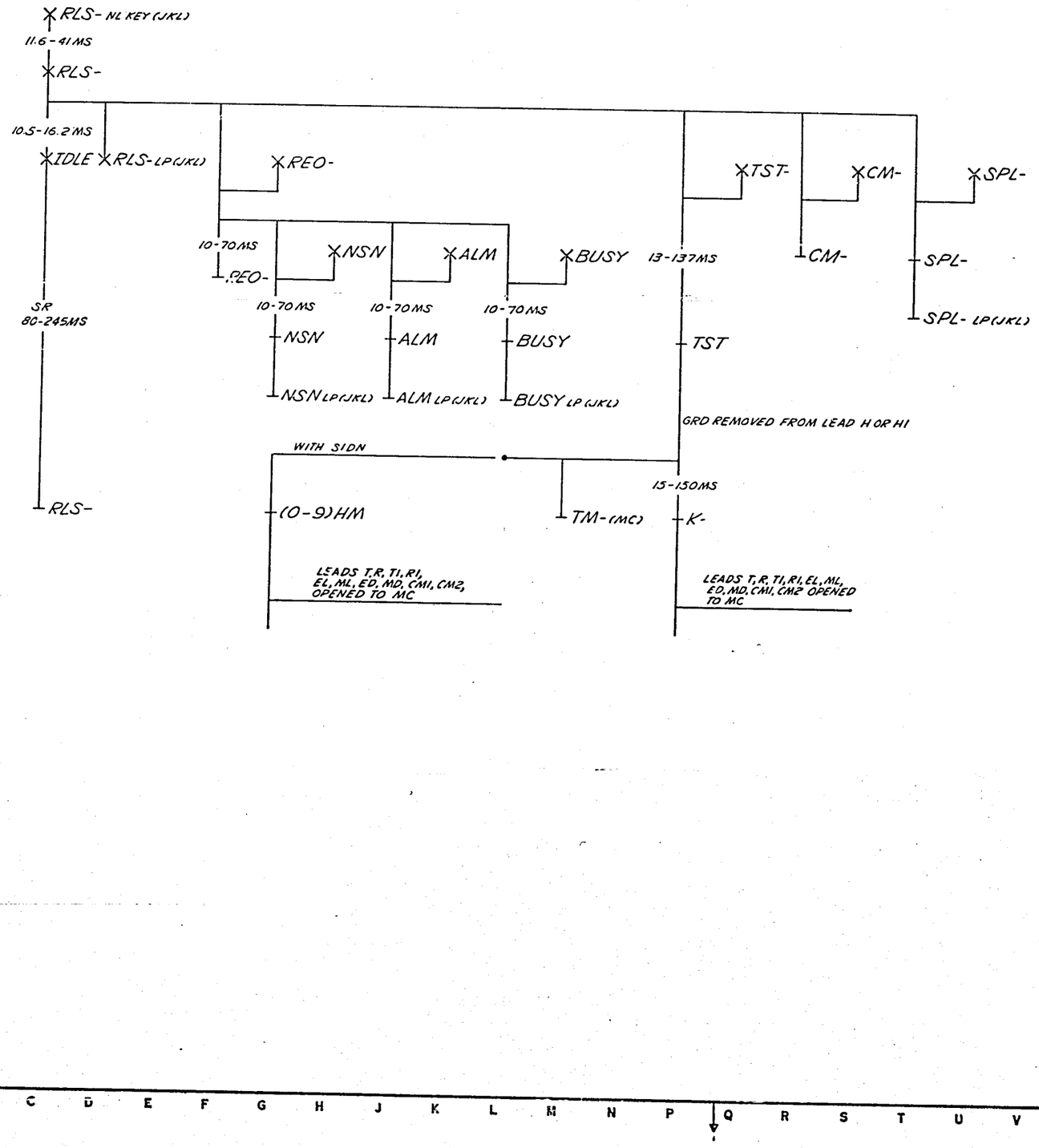
LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT

SD-1P106-01-E4

BELL TELEPHONE LABORATORIES INCORPORATED

66

SC 6
STANDALONE
OPTION W
RELEASE



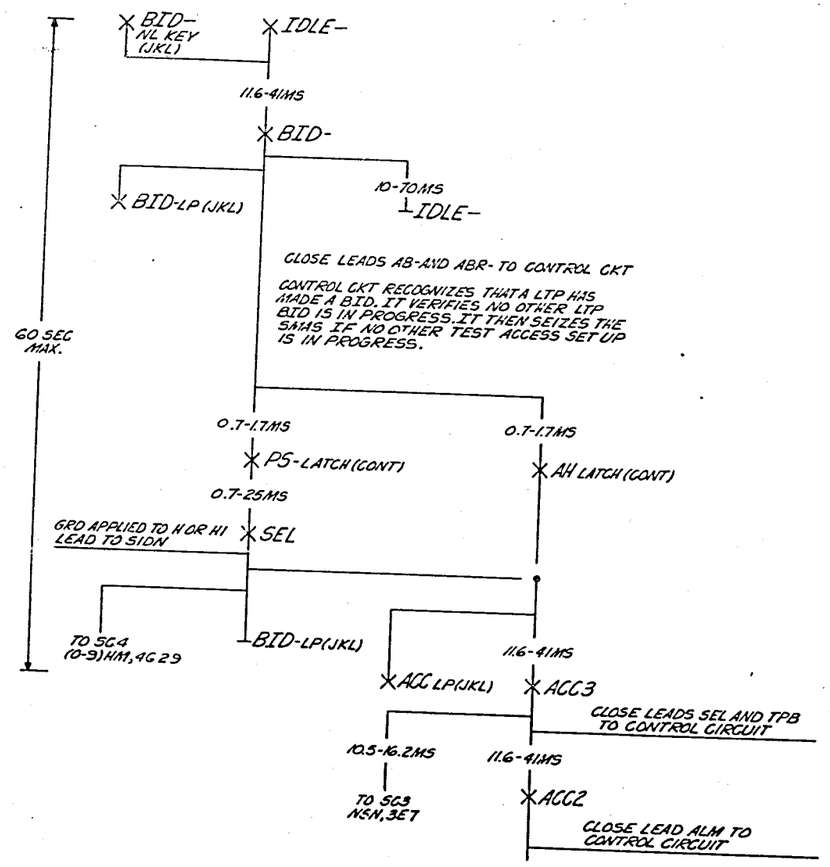
DRAWING ISSUE

ISSUE 14B

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT	SD-1P106-01-E5
BELL TELEPHONE LABORATORIES INCORPORATED	6S

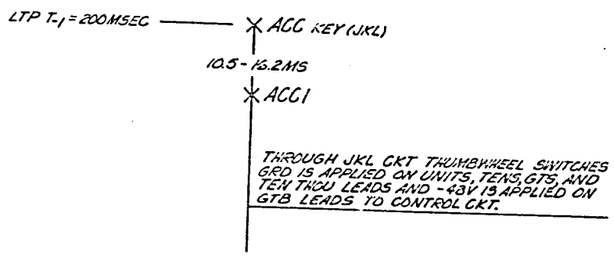
SC7

WITH RTS-5A CONTROL CIRCUIT
LOCAL TEST PORT BID

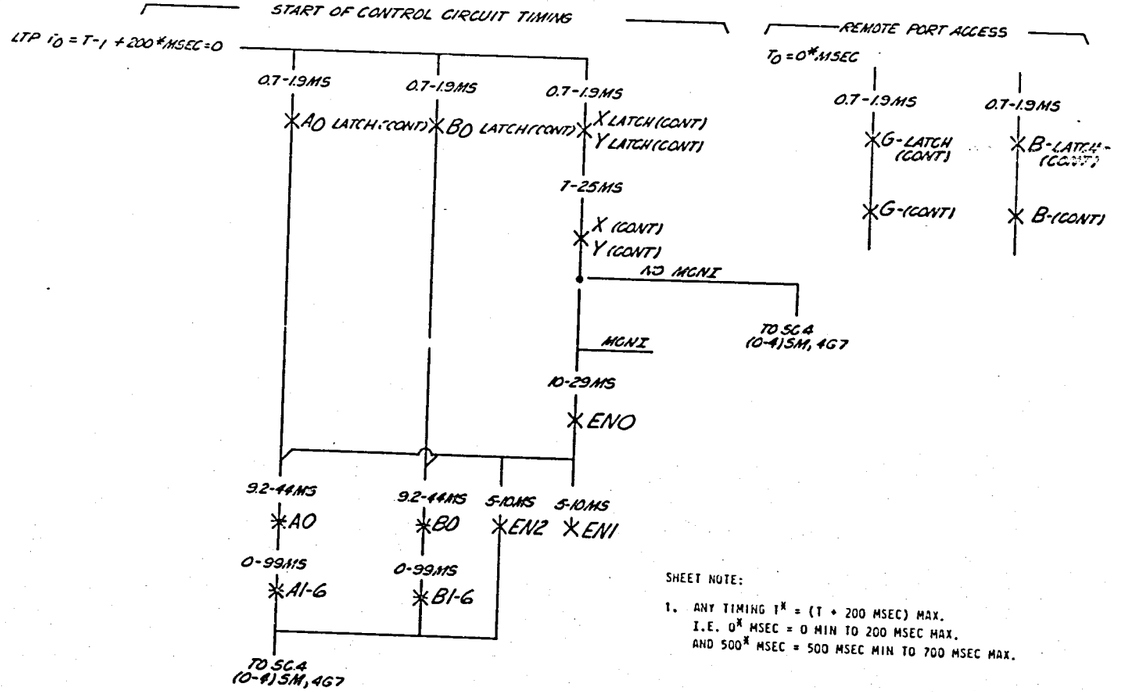


SC8

CONTROL CKT WAITS MAXIMUM SEVEN SECONDS
FOR ACC KEY TO BE DEPRESSED
LOCAL TEST PORT ACCESS



SC9



SHEET NOTE:

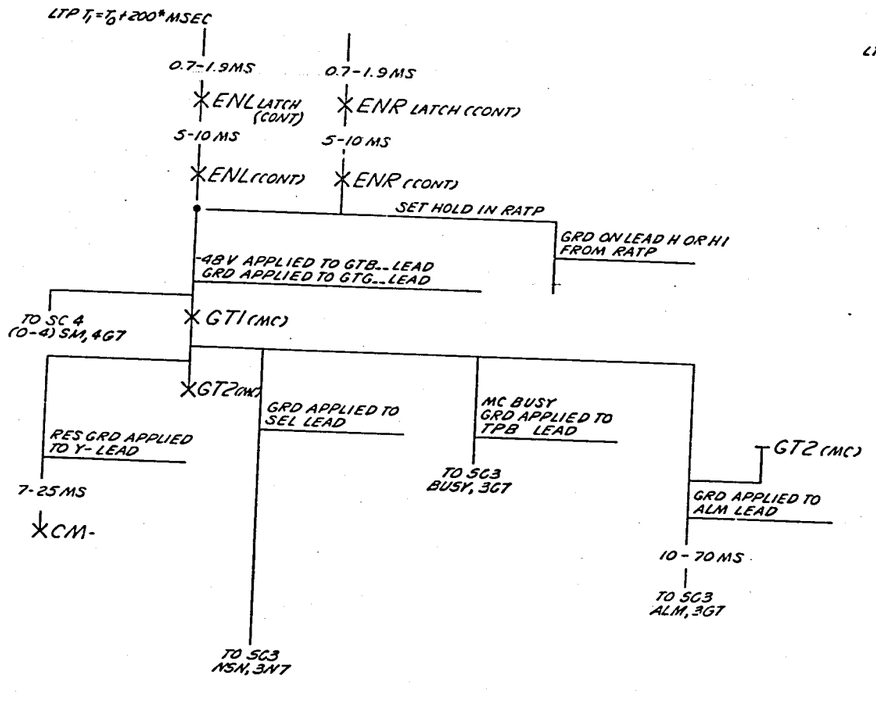
1. ANY TIMING T^X = (T + 200 MSEC) MAX.
   I.E. 0^X MSEC = 0 MIN TO 200 MSEC MAX.
   AND 500^X MSEC = 500 MSEC MIN TO 700 MSEC MAX.

DRAWING ISSUE

ISSUE 14B

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT	SD-1P106-01-E6
BELL TELEPHONE LABORATORIES INCORPORATED	6S

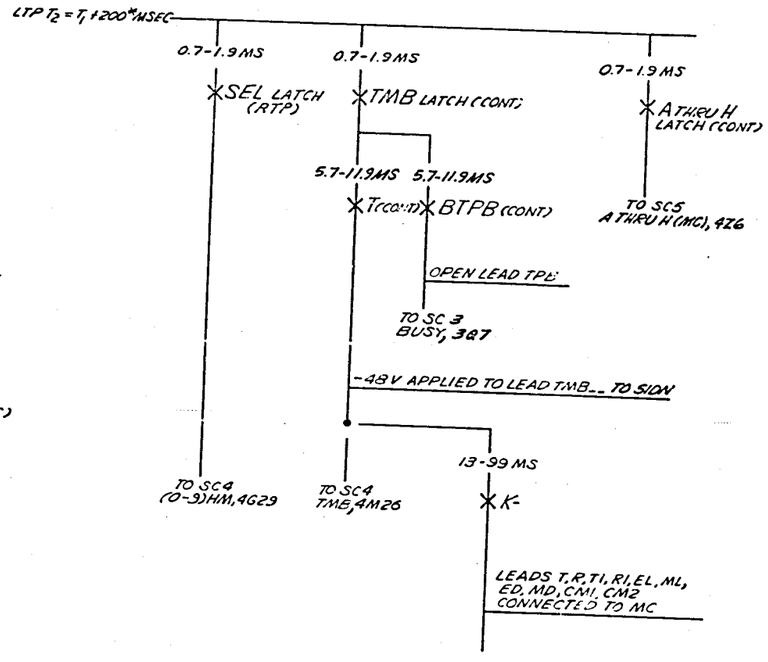
SC 10
RTS CONTROL CIRCUIT
ENABLING OF MC



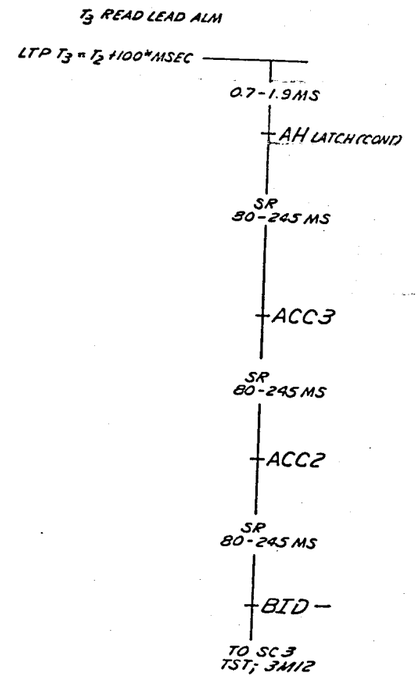
SC11
RTS CONTROL CKT READ LEADS AND SELECT DISTRIBUTION NETWORK

T_2-15MS

LATEST TIME INPUTS TO CONTROL CKT ON LEADS SEL, TPB AND Y MUST APPEAR TO STABILIZE



SC12
ALARM TEST AND ACCESS HOLD RELEASE



SHEET NOTE:

1. ANY TIMING T^X = (T + 200 MSEC) MAX.
   I.E. 0^X MSEC = 0 MIN TO 200 MSEC MAX.
   AND 500^X MSEC = 500 MSEC MIN TO 700 MSEC MAX.

DRAWING ISSUE

ISSUE 14B

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT

SD-1P106-01-E7

BELL TELEPHONE LABORATORIES INCORPORATED

SC 13
RELEASE OF CONTROL CIRCUIT LATCHES

T_3-15 MS LATEST TIME INPUTS TO CONTROL CKT ON LEADS ALM AND SC MUST APPEAR TO STABILIZE

LTP $T_4 = T_3 + 500^*$ MSEC

RTP $T_3 = T_2 + 500^*$ MSEC

- 0.7-1.9 MS — SEL LATCH (RATP)
  - GRD REMOVED FROM SEL LEAD FROM RATP
- 0.7-1.9 MS — ENL LATCH (CONT)
- 0.7-1.9 MS — ENR LATCH (CONT)
- 0.7-1.9 MS — TMB LATCH (CONT)
- 0.7-1.9 MS — X LATCH (CONT), Y LATCH (CONT)
- 0.7-1.9 MS — AO LATCH (CONT), BO LATCH (CONT)
- 0.7-1.9 MS — A THRU H LATCH (CONT)
- 6-47 MS — ENL (CONT)
- 6-47 MS — ENR (CONT)
- 6.7-48.9 MS — T (CONT)
- 13-137 MS — X (CONT), Y (CONT)
- MCNI OPTION D
  - AO
  - BO
  - A-
  - B-
- GRD REMOVED FROM LEAD A THRU H
- -48 REMOVED FROM GTB LEAD
- GRD REMOVED FROM GTG LEAD
- -48 REMOVED FROM LEAD TMB
- SIDN OPTION T — TMB
- GRD REMOVED FROM LEAD FDEN
- MCNI OPTION D — ENO — ENI, EN2
- SIDN OPTION T
  - GT1 (MC)
  - LEADS SEL, TPB, ALM, Y AND SC OPENED
  - GT2 (MC)
- 10-70 MS — (0-4) SM — A, B
- 10-70 MS — ENABAB
- 10-70 MS — ENAB—
  - GRD FROM PORT REMAINS ON LEAD H OR HI
  - GRD APPLIED TO LEAD ENAB

LATP $T_5 = T_4 + 100^*$ MSEC

- 0.7-1.9 MS — PS LATCH (CONT)
- 0.7-1.9 MS — RTL, RTLR LATCH (CONT)
- RST TMR-LP

SC 14
RTP WORK TIMING FOR CONTROL CIRCUIT

RTP $T_6 = T_3 + 100^*$ MSEC	RELEASE SMAS ALLOCATIONS
RTP $T_8 = T_6 + 60^*$ SECONDS MAX.	OHMMETER ALLOCATION AND CONTINUITY CHECK
RTP $T_9 = T_8 + 100^*$ MSEC	
RTP $T_{10} = T_9 +$ 1.1 SECONDS	CONTINUITY CHECKED CONTINUITY PASSED

SHEET NOTE:

1. ANY TIMING T^X = (T + 200 MSEC) MAX.
   I.E. 0^X MSEC = 0 MIN TO 200 MSEC MAX.
   AND 500^X MSEC = 500 MSEC MIN TO 700 MSEC MAX.

DRAWING ISSUE

ISSUE 14B

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT

SD-1P106-01-E8

BELL TELEPHONE LABORATORIES INCORPORATED 6S

CIRCUIT REQUIREMENTS

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPT	APPARATUS FIG.	MECH REQT BSP FIG.	MECH REQT CONT PRES	MECH REQT ARM. TRVL	CIRCUIT PREPARATION BLOCK OR INSULATE	CIRCUIT PREPARATION TEST CLIP DATA CONN BAT.	CIRCUIT PREPARATION TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	DIRECT CURRENT FLOW REQT TEST FOR	DIRECT CURRENT FLOW REQT AFTER SOAK MA	DIRECT CURRENT FLOW REQT TEST MA	DIRECT CURRENT FLOW REQT READJ MA	REMARKS
MAGNETS																	
HOLD LOWER (0-9)	CAI SW	Q	14					T MAG TST	B MAG TST		1		0		20	19	
SEL LOWER (0-9)	CAI SW	Q	14					SEE NOTE 3 MAG TST	SEE NOTE 2 MAG TST		1		0		52.5	50	
HOLD UPPER (0-9)	CAI SW	Q	14					T MAG TST	B MAG TST		1		0		20	19	
SEL UPPER (0-9)	CAI SW	Q	14					SEE NOTE 3 MAG TST	SEE NOTE 2 MAG TST		1		0		52.5	50	
RELAYS																	
A	1/2AK44	T	13	222				2U(A)	1U(A)	B/G			0		27.5	26	MTD WITH (B)
AO	1/2AK4		16	202					1L(AO)	GRD			0		11.9	11.3	MTD WITH (BO)
A1-A6	AJ5		16	220					U REL TST	GRD			0		13.3	12.6	
ACC1	1/2AK44		6,15	222					1L(ACC1)	GRD			0		27.5	26	MTD WITH (ALM)
ACC2	1/2AK41		6,15	202					1L(ACC2)	GRD			0		31.5	30	MTD WITH (ACC3)
ACC3	1/2AK41		6,15	202					1L(ACC3)	GRD			0		31.5	30	MTD WITH (ACC2)
ALM	1/2AK44		6,15	222			6M(ALM)		1U(ALM)	GRD			0		27.5	26	MTD WITH (ACC1)
B	1/2AK44	T	13	222				2L(B)	1L(B)	B/G			0		27.5	26	MTD WITH (A)
BO	1/2AK4		16	202					1U(BO)	GRD			0		11.9	11.3	MTD WITH (AO)
B1-B6	AJ5		16	220					U REL TST	GRD			0		13.3	12.6	
BIDA,B	1/2K 41		5,15	202			1M,2M(BIDA,B)		1L(BIDA,B)	GRD			0		31.5	30	MTD WITH (RLSA,B)
BUSY	1/2AK44		6,15	222			9M(BUSY)		1U(BUSY)	GRD			0		27.5	26	MTD WITH (NSN)
CMA,B	AJ81	S	10,15	220			9M(CMA,B)		L REL TST	GRD			0		24.5	23	
DFIA,B	AJ5		15	220					L REL TST	GRD			0		13.3	12.6	
DFA	1/2AK44		15	222					2U(DFA)				0		27.5	26	MTD WITH (DFB)
DFB	1/2AK44		15	222					2U(DFB)				0		27.5	26	MTD WITH (DFA)
END	AF59		16	3					U(END)	GRD			0		5.5	5.2	
EN1,EN2	AJ202		16	500					U(EN1,2)	GRD			0		43	40.5	
ENABA	1/2AK44	T	13,15	222					1U(ENABA)	GRD			0		27.5	26	MTD WITH (ENABB)
ENABAB	1/2AK44	T	13,15	222					1U(ENABAB)	GRD			0		27.5	26	MTD WITH (TMB)
ENABB	1/2AK44	T	13,15	222					1L(ENABB)	GRD			0		27.5	26	MTD WITH (ENABA)
FA	AF59		17	3				L(FA)		BAT			0		5.5	5.2	
IDLEA	1/2AK44		5,15	222					1U(IDLEA)	GRD			0		27.5	26	MTD WITH (REQA)
IDLEB	1/2AK44		5,15	222					1U(IDLEB)	GRD			0		27.5	26	MTD WITH (REQB)
K(0-9)	AJ83		4	249				U REL TST	L REL TST	B/G			0		13.3	12.6	
LTA	1/2AK44		5,15	222					1U(LTA)	GRD			0		27.5	26	MTD WITH (SPLA)
LTB	1/2AK44		5,15	222					1U(LTB)	GRD			0		27.5	26	MTD WITH (SPLB)
MN1	1/2AK24		11	12					1U(MN1)	GRD			0		7.8	7.4	MTD WITH (MN2)
MN2	1/2AK24		11	12					2U(MN2)	GRD			0		7.8	7.4	MTD WITH (MN1)
NSN	1/2AK44		6,15	222			8M(ACC3),9M(NSN)	2L(NSN)	1L(NSN)	B/G			0		27.5	26	MTD WITH (BUSY)
REQA	1/2AK44		5,15	222					1L(REQA)	GRD			0		27.5	26	MTD WITH (IDLEA)
REQB	1/2AK44		5,15	222					1L(REQB)	GRD			0		27.5	26	MTD WITH (IDLEB)
RLSA,B	1/2AK41		5,15	202			8M(RLSA,B)		1U(RLSA,B)	GRD			0		31.5	30	MTD WITH (BIDA,B)
RTLA	1/2AK7		18	203					1U(RTLA)	GRD			0		27	25.5	MTD WITH (TLA)
RTLB	1/2AK7		18	203					1U(RTLB)	GRD			0		27.0	25.5	MTD WITH (TLA)
SELA	AJ81		5,15	220			1M(SELA)	U(SELA)	L(SELA)	B/G			0		24.5	23	
SELB	AJ81		5,15	220			1M(SELB)	U(SELB)	L(SELB)	B/G			0		24.5	23	
SPAA	1/2AK44		5,15	222			8M(SPAA)		1U(SPAA)	GRD			0		27.5	26	MTD WITH (SPBB)
SPAB	1/2AK44		5,15	222			8M(SPAB)		1U(SPAB)	GRD			0		27.5	26	MTD WITH (SPBA)
SPBA	1/2AK44		5,15	222			1M(SPBA)		1L(SPBA)	GRD			0		27.5	26	MTD WITH (SPAB)
SPBB	1/2AK44		5,15	222			1M(SPBB)		1L(SPBB)	GRD			0		27.5	26	MTD WITH (SPAA)
SPEA	AJ81	S	10,15	220			5M(SPEA)		L(SPEA)	GRD			0		24.5	23	
SPEB	AJ81	S	10,15	220			5M(SPEB)		L(SPEB)	GRD			0		24.5	23	
SPLA	1/2AK44		5,15	222			1M(SPLA)		1L(SPLA)	GRD			0		27.5	26	MTD WITH (LTA)
SPLAA	1/2AK44		6,15	222					1L(SPLAA)	GRD			0		27.5	26	MTD WITH (SPLBA)
SPLAB	1/2AK44		6,15	222					1L(SPLAB)	GRD			0		27.5	26	MTD WITH (SPLBB)
SPLB	1/2AK44		5,15	222			1M(SPLB)		1L(SPLB)	GRD			0		27.5	26	MTD WITH (LTB)
SPLBA	1/2AK44		6,15	222					1L(SPLBA)	GRD			0		27.5	26	MTD WITH (SPLAA)
SPLBB	1/2AK44		6,15	222					1L(SPLBB)	GRD			0		27.5	26	MTD WITH (SPLAB)
TLA	1/2AK7		18	203					1L(TLA)	GRD			0		27.0	25.5	MTD WITH (RTLA)
TLB	1/2AK7		18	203					1L(TLB)	GRD			0		27.0	25.5	MTD WITH (RTLB)
TMB	1/2AK44	T	13,15	222				2L(TMB)		BAT			0		27.5	26	MTD WITH (ENABAB)
TSTA	AJ81		5,15	220			2M(TSTA)		L(TSTA)	GRD			0		24.5	23	
TSTB	AJ81		5,15	220			2M(TSTB)		L(TSTB)	GRD			0		24.5	23	
UNT1	AJ5	W	9	220			128(UNT2)		L(UNT1)	GRD			0		13.3	12.6	
UNT1S	1/2AK44	W	9	222			128(UNT2)		1L(UNT1S)	GRD			0		27.5	26	MTD WITH (SPARE)
UNT2,4	AJ5	W	9	220					L REL TST	GRD			0		13.3	12.6	
UNT8	AF32	W	9	208					L(UNT8)	GRD			0		32.5	30.5	

TEST NOTES:

1. MULTIPLY CURRENT READING IN TABLE BY THE NUMBER OF MAGNETS IN PARALLEL TO OBTAIN COMBINATION READINGS.
2.

	0	1	2	3	4	5	6	7	8	9
CONN GRD	RT	RB	LB	LT	RT	RB	LB	LT	RT	RB

3.

	0	1	2	3	4	5	6	7	8	9
CONN BAT.	RB	RT	LT	LB	RB	RT	LT	LB	RB	RT

DRAWING ISSUE

ISSUE 12A

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT (2)

SD-1P106-01-FI

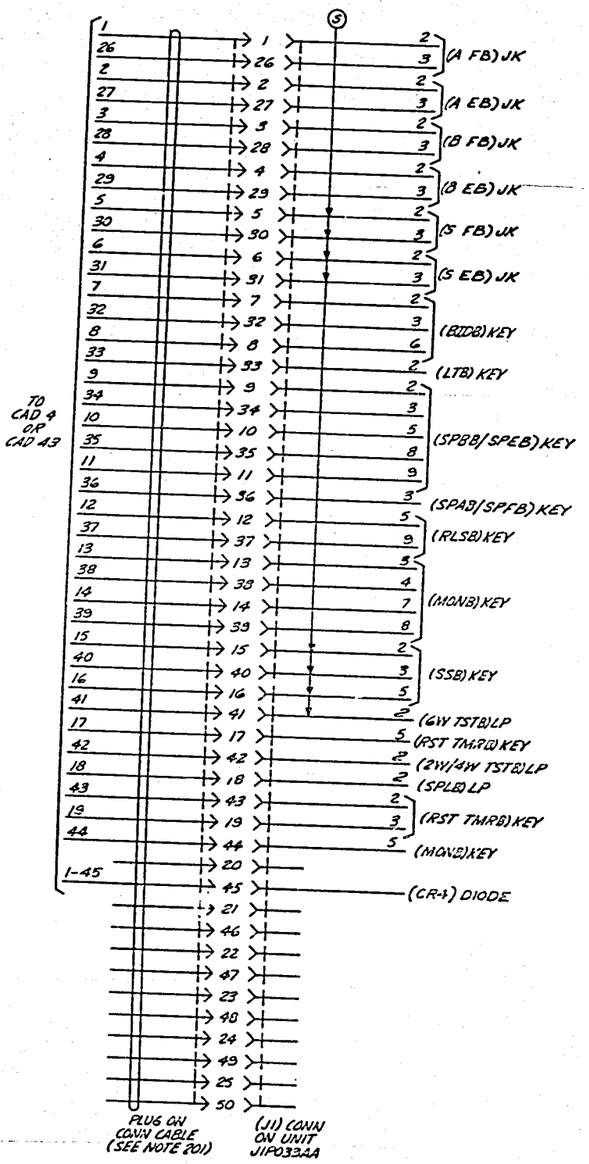
BELL TELEPHONE LABORATORIES INCORPORATED

65

SD-1P106-01-FI

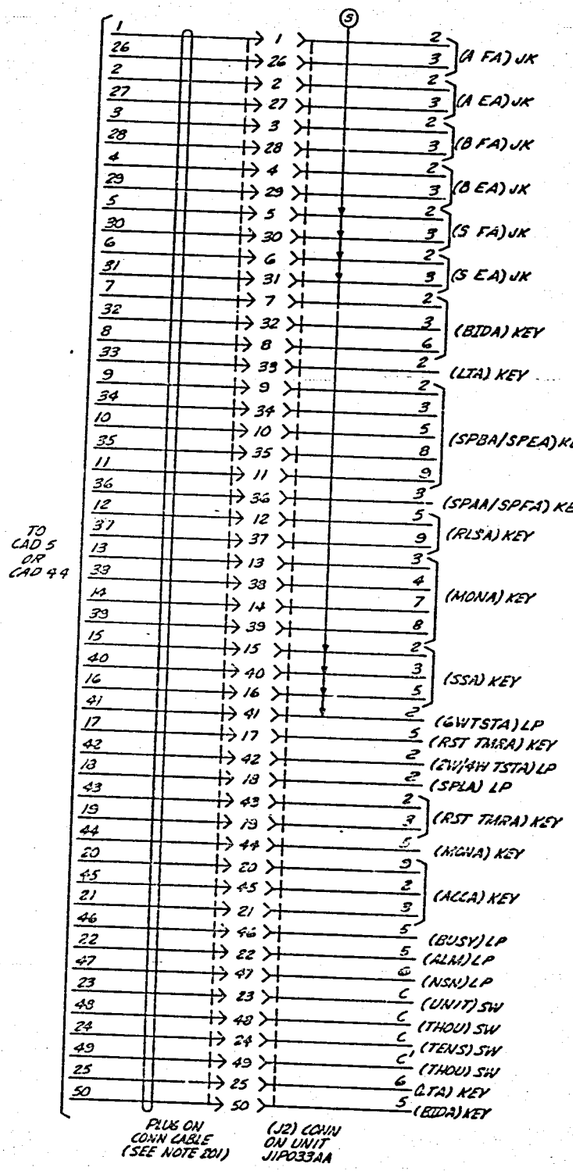
CAD 1 (MFR DISC.)

(FOR APP FIGS 2 & 3)



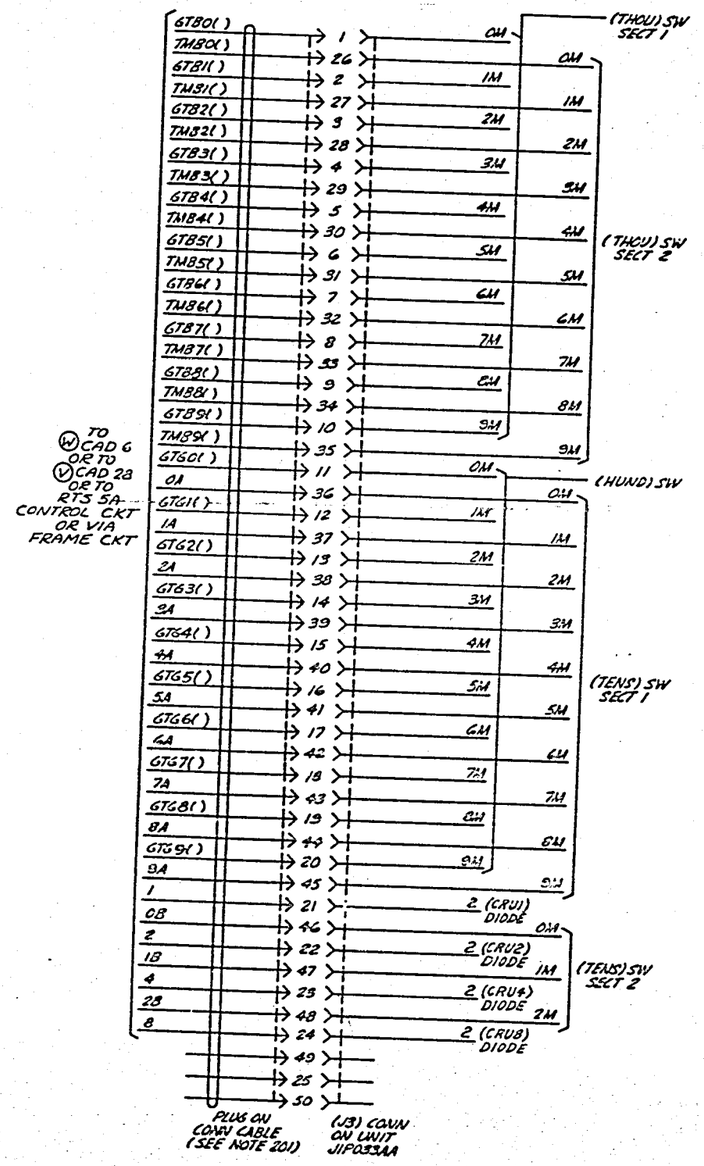
CAD 2 (MFR DISC.)

(FOR APP FIGS 1, 2 & 3)



CAD 3 (MFR DISC.)

(FOR APP FIG. 1)



ISSUE 12A

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT

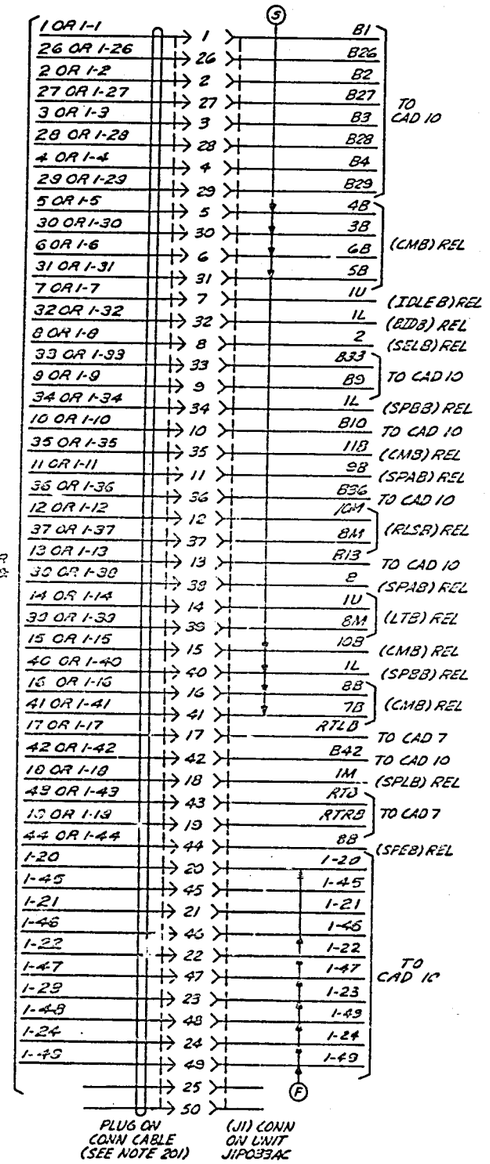
SD-1P106-01-GI

BELL TELEPHONE LABORATORIES INCORPORATED

6S

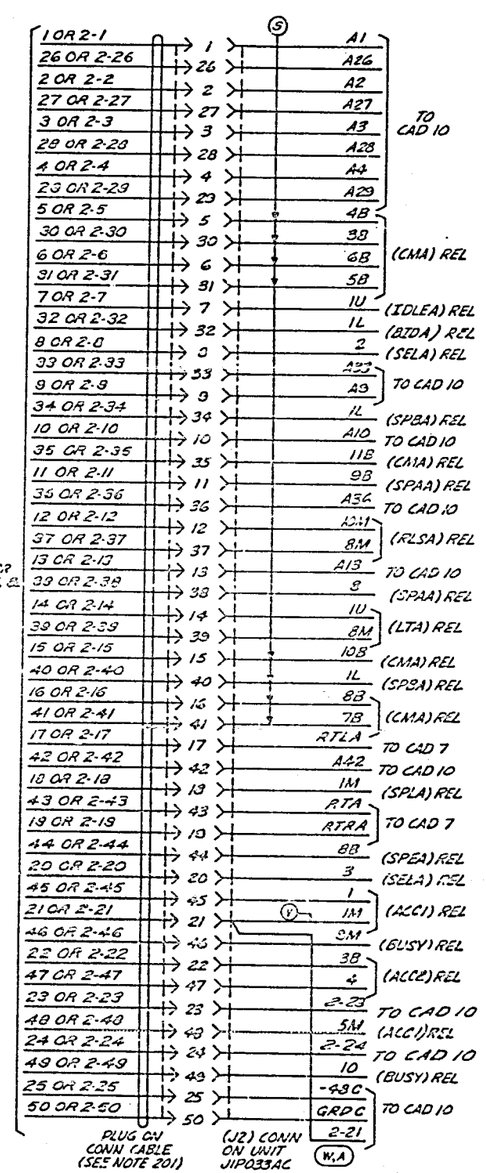
CAD 4 (MFR DISC.)

(FOR APP FIGS 5 & 10)



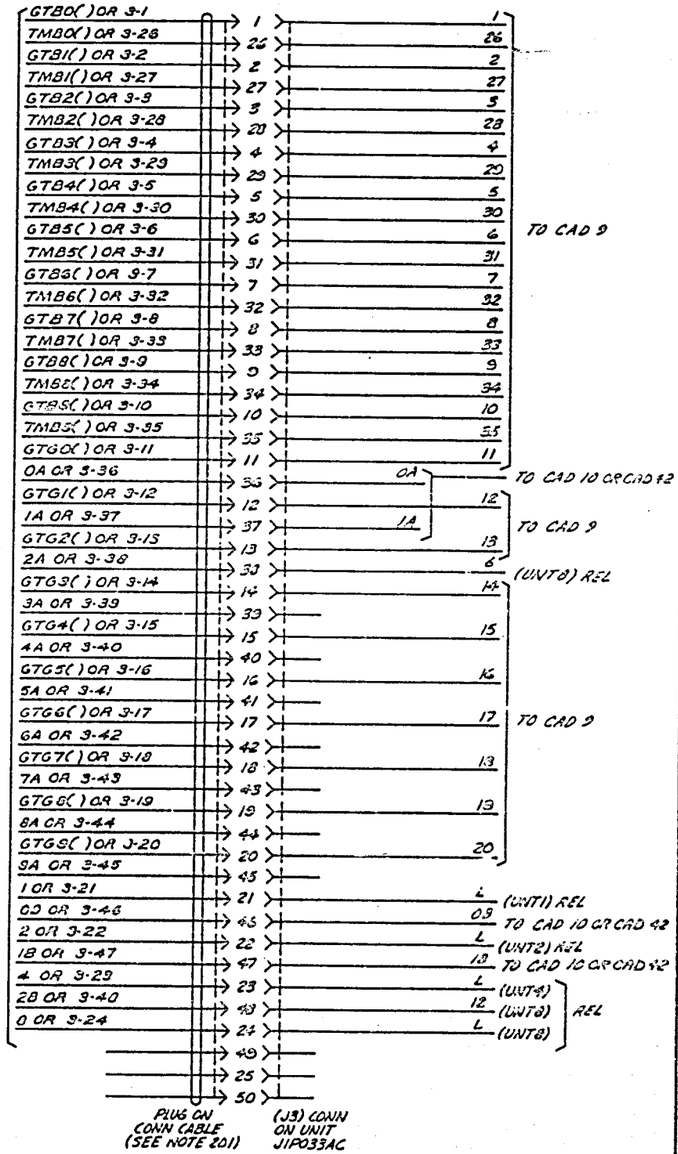
CAD 5 (MFR DISC.)

(FOR APP FIGS 5 & 10)



CAD 6

(FOR APP FIG. 9)



ISSUE 9AC

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT

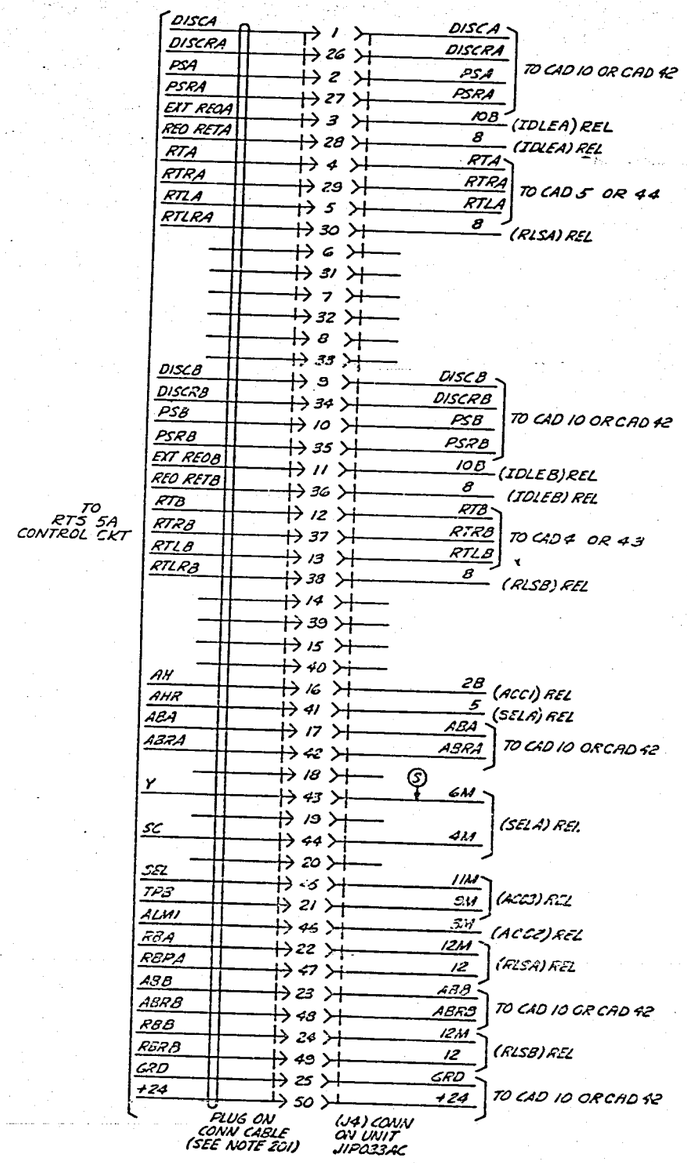
SD-1P106-01-G2

BELL TELEPHONE LABORATORIES INCORPORATED

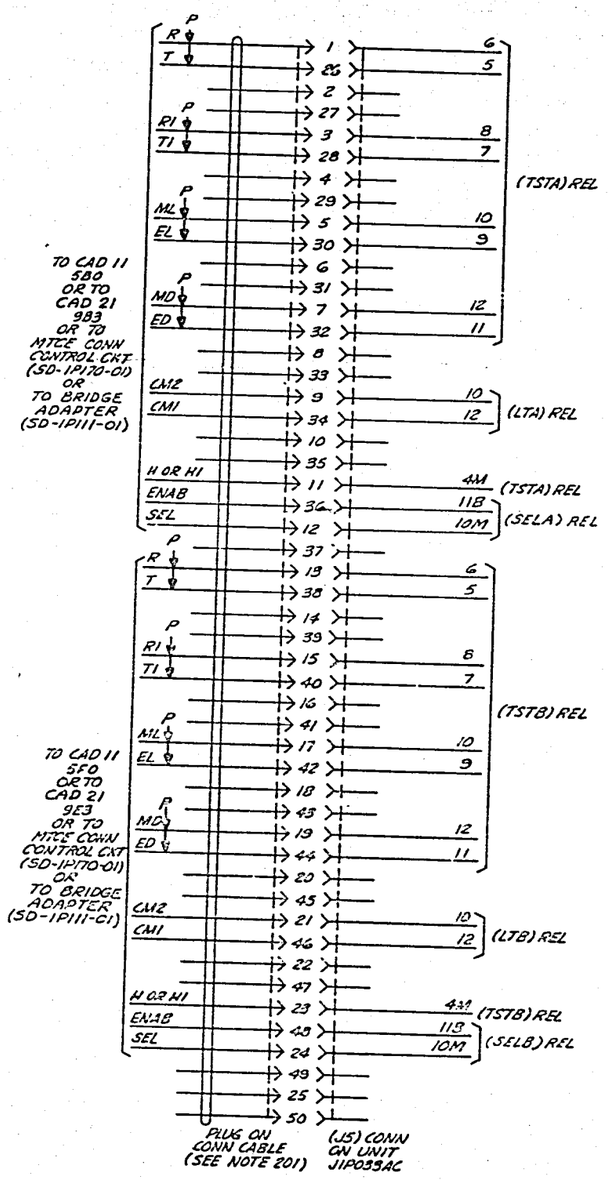
DWG SIZE 6S

PRINTED IN U.S.A.

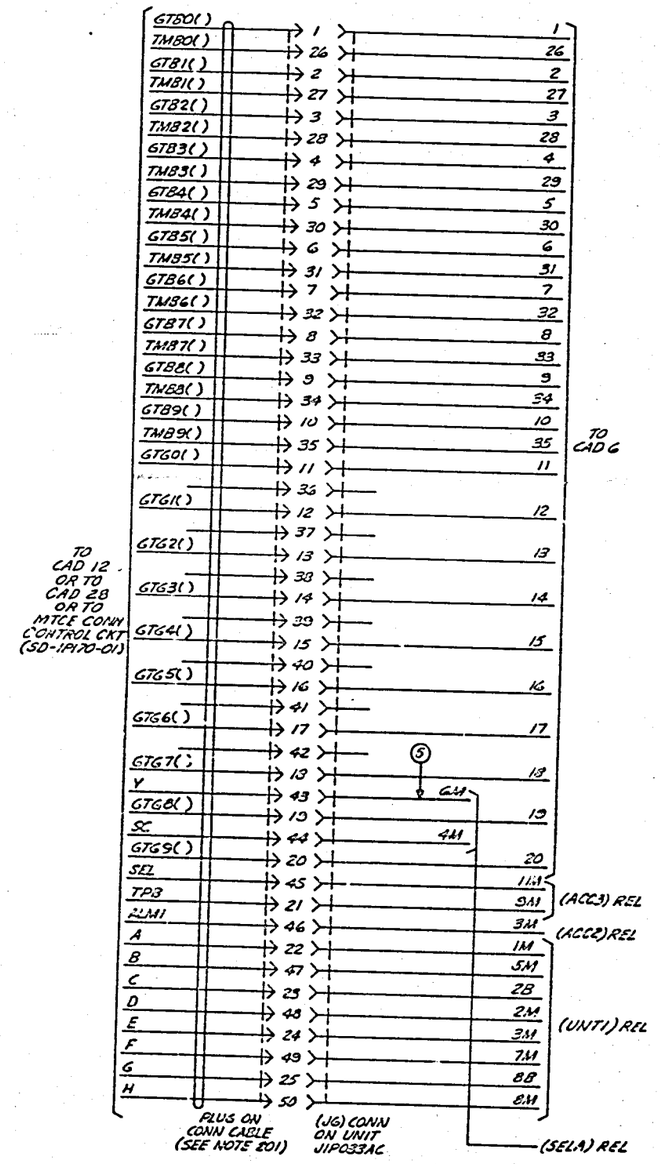
ⓥ CAD 7
(FOR APP FIGS 5 & 6)



CAD 8
(FOR APP FIG. 5)



ⓦ CAD 9
(FOR APP FIGS 5, 6 & 9)



ISSUE 14B

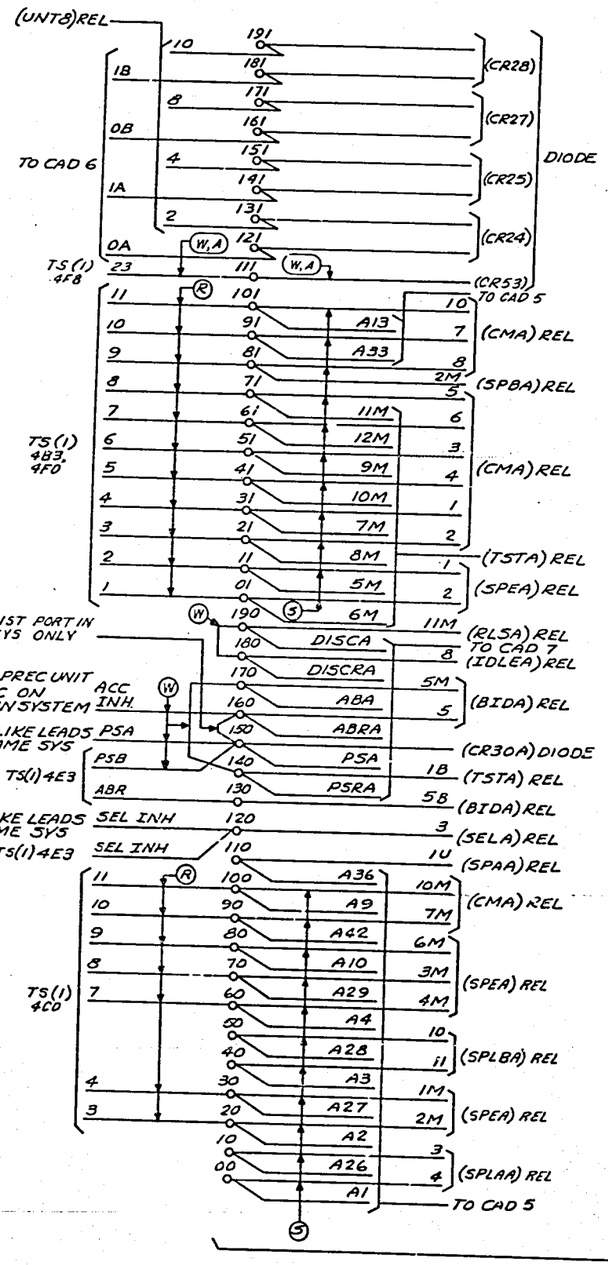
LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

SD-1P105-01-03

CAD 10 (MFR DISC.)

(FOR APP FIGS. 5 & 7-10)



NOTES:

1. THESE LEADS MAY BE CONNECTED TO ANY SUITABLE INTERRUPTOR CKT IF BR3 IS NOT AVAILABLE.
2. INPUT LEADS TO TERMINALS (184-195), (164-175) AND (144-155) SHALL BE PAIRED.

ISSUE 13AC

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT

SD-1P106-01-G4

BELL TELEPHONE LABORATORIES INCORPORATED

CAD 11

(FOR APP FIG. 4)

TO CAD 14 6B2

TO CAD 8 3B3 OR PREC CAD 14 6B0 OR TO CAD 20 9B0 OR TO RTS 5A REMOTE TEST PORT CKT OR TO REMOTE MTCE LOOP CKT (SD-1P111-01) OR TO MTCE CONN CONTROL CKT (SD-1P170-01)

(K4) REL

TO CAD 17,7H5

TO CAD 8 3E3 OR PREC CAD 14 6E0 OR TO CAD 20 9E0 OR TO RTS 5A REMOTE TEST PORT CKT OR TO REMOTE MTCE LOOP CKT (SD-1P111-01) OR TO MTCE CONN CONTROL CKT (SD-1P170-01)

(K9) REL

TO CAD 17,7H5

TO CAD 14 6E2

PLUG ON CONN CABLE (SEE NOTE 201)

(J8) CONN ON UNIT J1P033AB

CAD 12

(FOR APP FIG. 1)

TO (W) CAD 9 5D7 OR PREC CAD 13, OR TO CAD 26, OR TO RTS 5A CONTROL CKT OR TO REMOTE MTCE LOOP CKT (SD-1P111-01) OR TO MTCE CONN CONTROL CKT (SD-1P170-01) OR TO DIGITAL TEST ACCESS CKT (SD-1P177-01)

TO CAD 17

TO CAD 15

PLUG ON CONN CABLE (SEE NOTE 201)

(J6) CONN ON UNIT J1P033AB

TO (J7) CONN

CAD 13

(FOR APP FIG. 1)

TO CAD 12 5D4 (FOR SUCC DISTR NET) OR TO REMOTE MTCE LOOP CKT (SD-1P111-01) OR TO MTCE CONN CONTROL CKT (SD-1P170-01) OR TO DIGITAL TEST ACCESS CKT (SD-1P177-01)

TO (J6) CONN

PLUG ON CONN CABLE (SEE NOTE 201)

(J7) CONN ON UNIT J1P033AB

ISSUE 14B

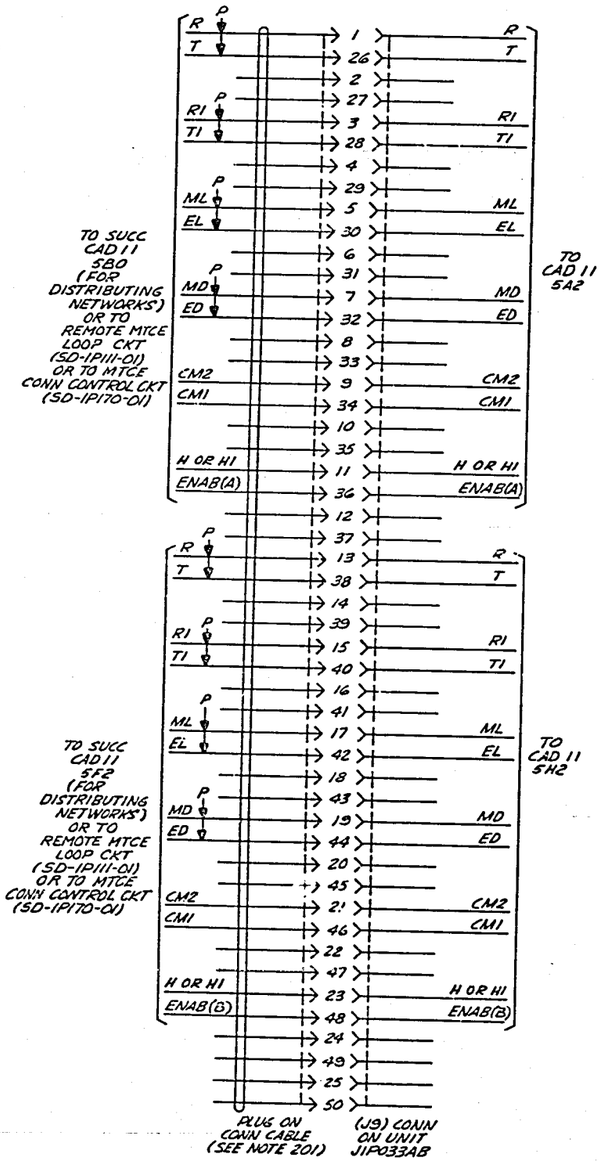
LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT

SD-1P106-01-G5

BELL TELEPHONE LABORATORIES INCORPORATED

6S

CAD 14
(FOR APP FIG. 4)



CAD 15
(FOR APP FIG. 4)
(SEE TABLE A)
(SEE NOTE 2)

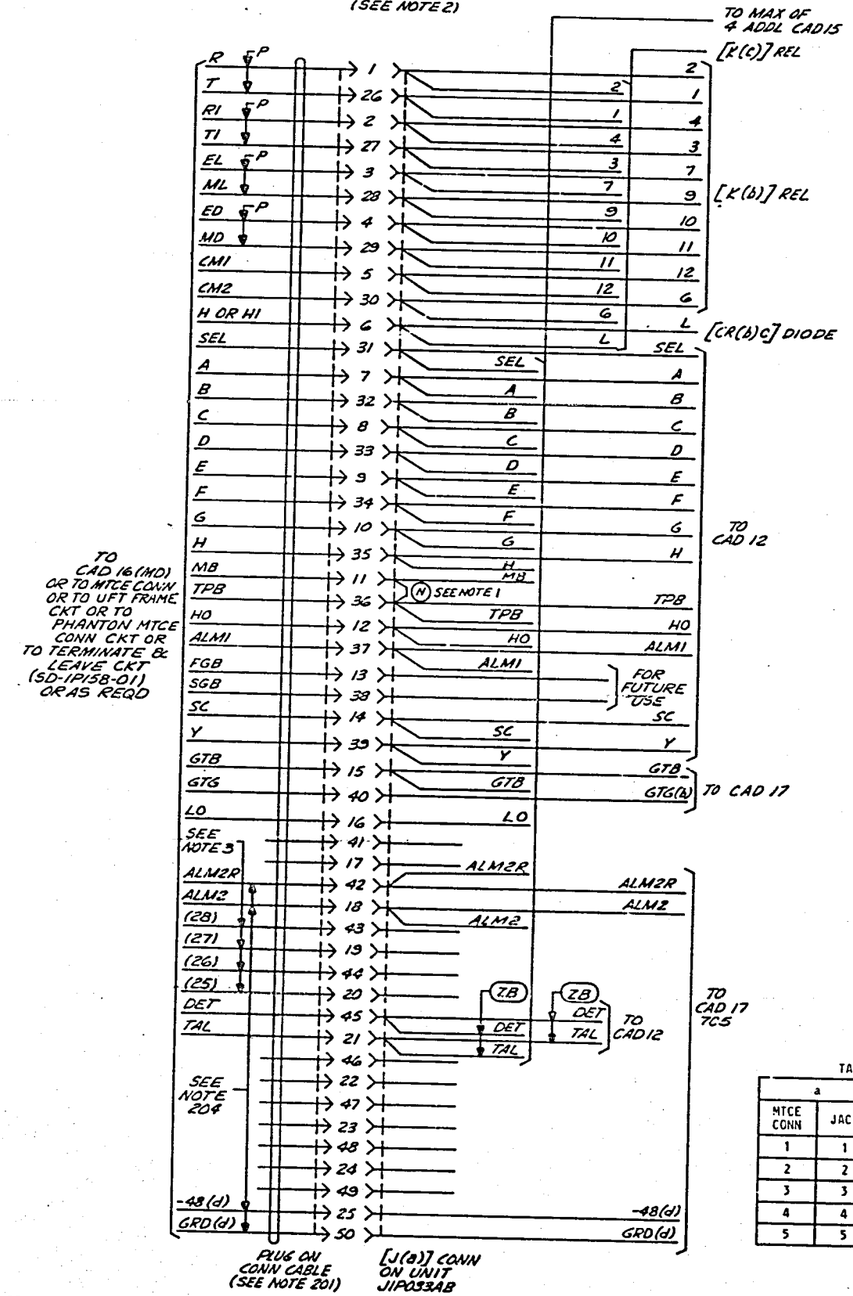
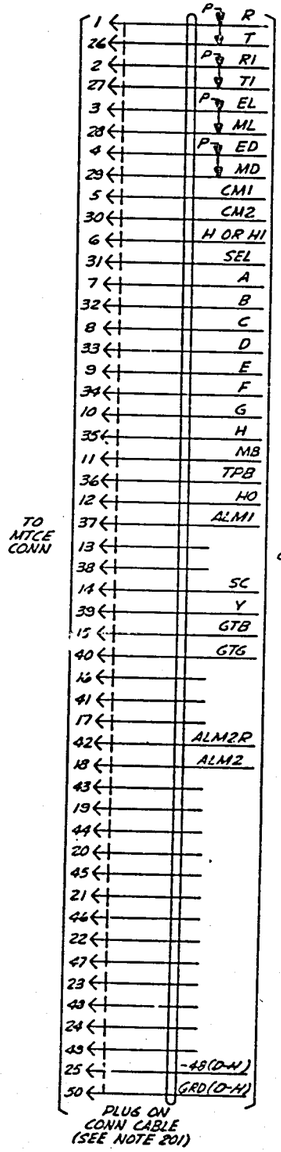


TABLE A

a		b	c	d
MTCE CONN	JACK			
1	1	0	5	D
2	2	1	6	E
3	3	2	7	F
4	4	3	8	G
5	5	4	9	H

CAD 16 (MFR DISC)
(FOR APP FIG. 4)
(SEE NOTE 2)



NOTES:

1. STRAP PER N OPTION PROVIDED ON (J5) CONN ONLY.
2. FOR INTERCONNECTION INFORMATION SEE SD-1P138-01 MAINTENANCE CONNECTOR APPLICATION SCHEMATIC.

NOTES: (CONT)

3. THESE LEADS ARE NOT REQUIRED FOR SMAS 5( ) BUT ARE USED ON THE TYPE 2 MAINTENANCE CONNECTOR (SD-1C454-01) FOR SMAS 3( ) APPLICATIONS.

ISSUE 14B

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT

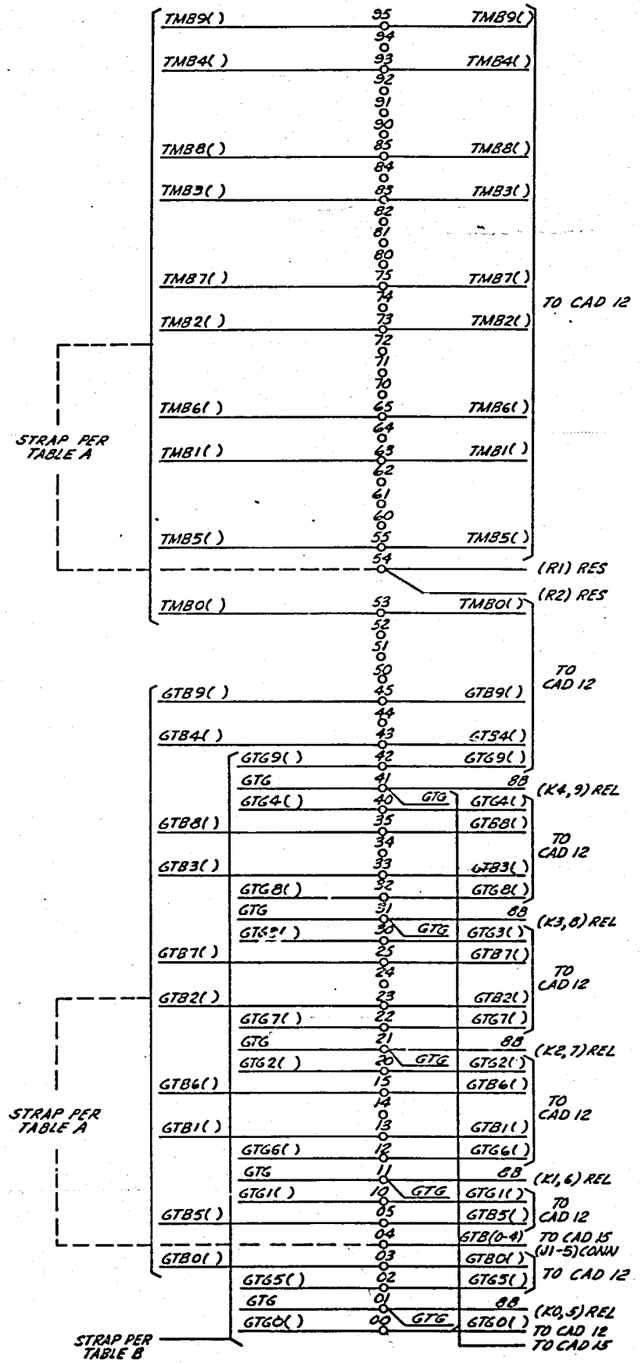
SD-1P106-01-G6

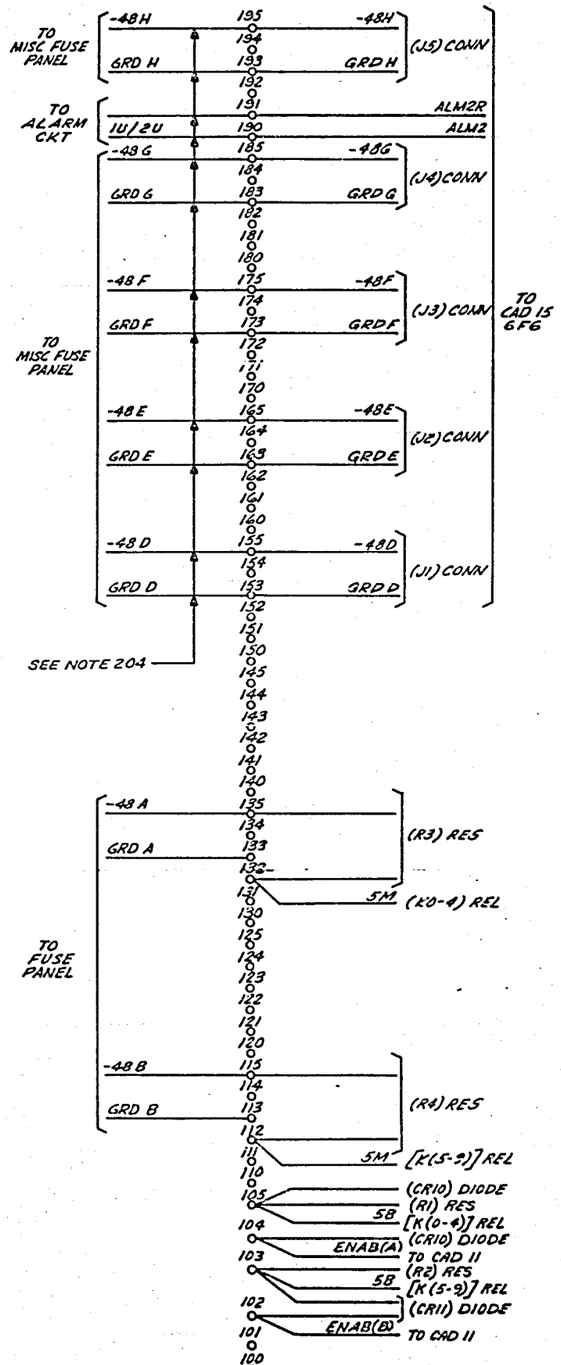
BELL TELEPHONE LABORATORIES INCORPORATED

6S

CAD 17

(FOR APP FIG. 1 & 4)





STRAP ON BACK OF TS(1) J1P033AB

TABLE A (SEE NOTE 1)

IF LEAD DESIG IS GTB-	STRAP BETWEEN TERM. NO. 04 AND THE FOLLOWING	IF LEAD DESIG IS TMB-	STRAP BETWEEN TERM. NO. 54 AND THE FOLLOWING
0( )	03	0( )	53
1( )	13	1( )	63
2( )	23	2( )	73
3( )	33	3( )	83
4( )	43	4( )	93
5( )	05	5( )	55
6( )	15	6( )	65
7( )	25	7( )	75
8( )	35	8( )	85
9( )	45	9( )	95

TABLE B (SEE NOTE 1)

IF LEAD DESIG IS GTG-	STRAP TERMINAL NO.
0( )	01 - 00
1( )	11 - 10
2( )	21 - 20
3( )	31 - 30
4( )	41 - 40
5( )	01 - 02
6( )	11 - 12
7( )	21 - .
8( )	31 - 32
9( )	41 - 42

NOTES:

1. SEE CIRCUIT NOTE 109.

ISSUE 6B

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT	SD-1P106-01-G7
BELL TELEPHONE LABORATORIES INCORPORATED	SHEET CODE 6S

CAD 18 (MFR DISC)

(SEE TABLE A AND NOTE 201)
(SEE NOTE 1)

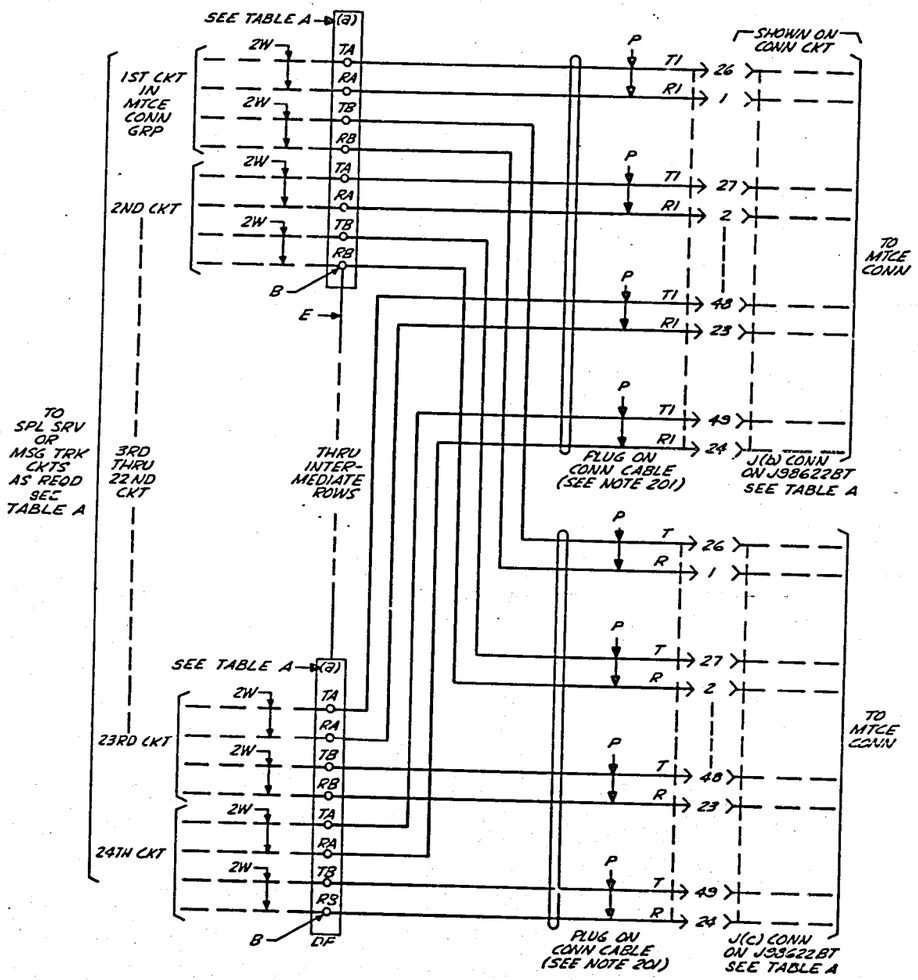


TABLE A

a	b	c
FAC	3	5
EQPT	2	6

CAD 19 (MFR DISC)

(SEE TABLE B AND NOTE 201)
(SEE NOTE 1)

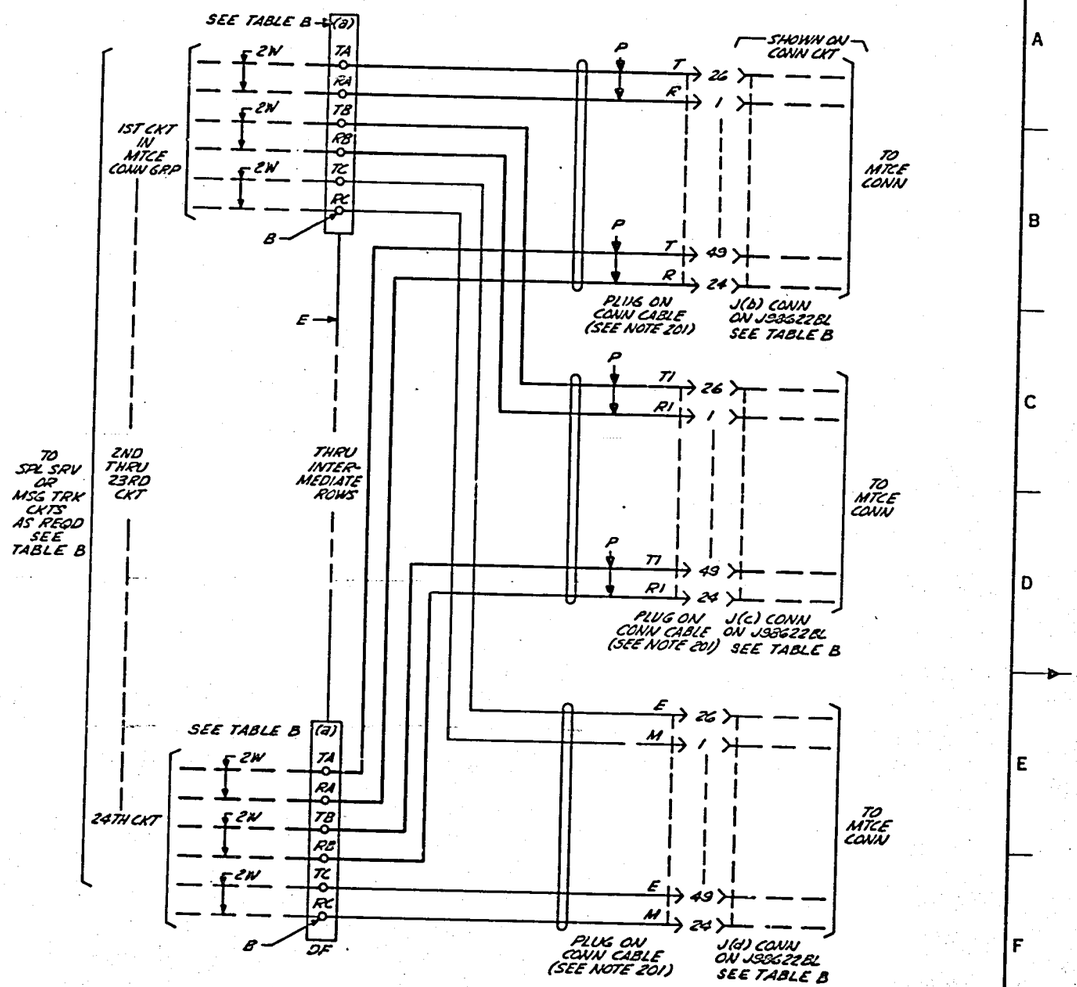


TABLE B

a	b	c	d
FAC	34	27	29
EQPT	35	28	30

NOTES:

1. FOR INTERCONNECTION INFORMATION SEE SD-1P138-01 MAINTENANCE CONNECTOR APPLICATION SCHEMATIC.

ISSUE 14B

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT

SD-1P106-01-G8

BELL TELEPHONE LABORATORIES INCORPORATED

6S

⑦CAD 20

(FOR APP FIG.13)
(SEE NOTE 211)

TO CAD11,5CO OR (FOR 53 TP APPLICATIONS TO TAT CONN (SD-1P163-01) OR TO MTCE CONN CONTROL CKT (SD-1P170-01) OR TO DTAC CKT (SD-1P177-01) OR TO BA CKT (SD-1P111-01)

R, T, RI, TI, ML, EL, MD, ED, CM2, CM1, HORHI, ENAB — P

1, 26, 2, 27, 3, 28, 4, 29, 5, 30, 6, 31, 7, 32, 8, 33, 9, 34, 10, 35, 11, 36, 12, 37, 13, 38, 14, 39, 15, 40, 16, 41, 17, 42, 18, 43, 19, 44, 20, 45, 21, 46, 22, 47, 23, 48, 24, 49, 25, 50

(J(c)A) CONN

HORHI(a)0 (d) TO CAD 30 (ENABA) REL (SEE TABLE A)

HORHI(a)0 (e) TO CAD 30 (ENABB) REL (SEE TABLE A)

PLUG ON CONN CABLE (SEE NOTE 201)

(J(c)) CONN ON UNIT J1P033AD (SEE TABLE A)

CAD 21

(FOR APP FIG.14)

TO CAD 8,3C3 (J5) CONN OR TO RTS 5A REMOTE TEST PORT CKT OR TO PRECEEDING CAD 25 (SEE NOTE 1) OR TO INTERFACE CKT (SD-99691-01) SEE NOTE 207 OR TO CAD 34,13C8

TO CAD 8,3E3 (J5) CONN OR TO RTS 5A REMOTE TEST PORT CKT OR TO PRECEEDING CAD 25 (SEE NOTE 1) OR TO INTERFACE CKT (SD-99691-01) SEE NOTE 207 OR TO CAD 34,13E8

R, T, RI, TI, ML, EL, MD, ED, CM2, CM1, HORHI, ENAB, SEL — P

1, 26, 2, 27, 3, 28, 4, 29, 5, 30, 6, 31, 7, 32, 8, 33, 9, 34, 10, 35, 11, 36, 12, 37, 13, 38, 14, 39, 15, 40, 16, 41, 17, 42, 18, 43, 19, 44, 20, 45, 21, 46, 22, 47, 23, 48, 24, 49, 25, 50

W1, W0 (UPPER) SW
W3, W2 (UPPER) SW
W1, W0 (LOWER) SW
W3, W2 (LOWER) SW
VERTICAL LEVEL (a) SEE TABLE B
W5, W4 (UPPER) SW
W5 (LOWER) SW
1B (UPPER) HOLD O.N.
W1, W0 (UPPER) SW
W3, W2 (UPPER) SW
W1, W0 (LOWER) SW
W3, W2 (LOWER) SW
VERTICAL LEVEL (b) (SEE TABLE B)
W5, W4 (UPPER) SW
W5 (LOWER) SW
1B (UPPER) HOLD O.N.

(J(d)A) CONN (SEE NOTE 1)

PLUG ON CONN CABLE (SEE NOTE 201)

(J(d)) CONN ON UNIT J1P033AD

⑦CAD 22

(FOR APP FIG.13)

GTB0( ), TMB0( ), GTB1( ), TMB1( ), GTB2( ), TMB2( ), GTB3( ), TMB3( ), GTB4( ), TMB4( ), GTB5( ), TMB5( ), GTB6( ), TMB6( ), GTB7( ), TMB7( ), GTB8( ), TMB8( ), GTB9( ), TMB9( ), GTG0( ), HO, GTG1( ), TGTG0, GTG2( ), GTG3( ), GTG4( ), TAL, GTG5( ), DET, GTG6( ), QE( ), GTG7( ), Y, GTG8( ), SC, GTG9( ), SEL, TPB, ALMI, A, B, C, D, E, F, G, H

1, 26, 2, 27, 3, 28, 4, 29, 5, 30, 6, 31, 7, 32, 8, 33, 9, 34, 10, 35, 11, 36, 12, 37, 13, 38, 14, 39, 15, 40, 16, 41, 17, 42, 18, 43, 19, 44, 20, 45, 21, 46, 22, 47, 23, 48, 24, 49, 25, 50

TO CAD 23

QE

10M (A) REL

(J11A) CONN

PLUG ON CONN CABLE (SEE NOTE 201)

(J11) CONN ON UNIT J1P033AD

ⓥTO RTS 5A CONTROL CKT (FOR CORRECT QUADRANT) OR TO PRECEEDING CAD 27 OR TO CAD 28 OR TO CADS 37,38,39 OR 40 (FOR CORRECT QUADRANT)

NOTES:

1. (J(d)) CONN SHALL BE CONNECTED TO LIKE-NUMBERED (J(d)A) CONN.

TABLE A

LEVEL	(a)	(b)	(c)	(d)	(e)
0	0		1	8	
1	1		2	9	
2	2		3	10	
3	3		4	11	
4	4		5	12	
5		5	2		1
6		6	3		2
7		7	4		3
8		8	5		4
9		9	1		5

TABLE B

CONN (d)	VERT (a)	LEVEL (b)
J6	0	9
J7	1	5
J8	2	6
J9	3	7
J10	4	8

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT

DWG SIZE 6S | ISSUE 14B

BELL LABORATORIES | SD-1P100-01 | -69

CAD 23

TO FUSE AND ALARM CKT
GRD
-48V
192
191
190
182
GRD IL (TMB) REL
-48 IM (LOWER) SW
2U HOLD O.N.O
(ENABA) REL

FRAME LOCAL CABLE WHEN ON SAME FRAME OR BAY

TO AUX NET SD-1P166-01 WHEN PROVIDED (FOR USE WITH 33ATP

HLD9 160 — 3M HLD ON 9
HLD8 152 — 3M HLD ON 8
HLD7 151 — 3M HLD ON 7
HLD6 150 — 3M HLD ON 6
HLD5 142 — 3M HLD ON 5
HLD4 141 — 3M HLD ON 4
HLD3 140 — 3M HLD ON 3
HLD2 132 — 3M HLD ON 2
HLD1 131 — 3M HLD ON 1
HLD0 130 — 3M HLD ON 0
(LOWER) SW

ZC

W 111 GRD
V 110 9 (A) REL
102 QE

TMB9( ) 92 — J
TMB4( ) 91
TMB8( ) 82 — I
TMB3( ) 81
TMB7( ) 72 — H
TMB2( ) 71
TMB6( ) 62 — G
TMB1( ) 61
TMB5( ) 52 — F
TMB0( ) 51
GTB9( ) 42 — E
GTB4( ) 41
GTB8( ) 32 — D
GTB3( ) 31
GTB7( ) 22 — C
GTB2( ) 21
GTB6( ) 12 — B
GTB1( ) 11
GTB5( ) 02 — A
GTB0( ) 01

GTB4 GTB3 GTB2 GTB1 GTB0

STRAP PER TABLE A

TS(1) ON UNIT JIP033AD

TO CAD 22
TO CAD 29
TO CAD 24

CAD 24

(a.7)

TO CORRESPONDING CAD 24 OF PREC OR SUCC CKT

R(a)( )	1	1	W1	(J(C))CONN
T(a)( )	26	26	W0	
P	2			
	27			
R1(a)( )	3	3	W3	(UPPER)SW
T1(a)( )	28	28	W2	
P	4			
	29			
ML(a)( )	5	5	W1	
EL(a)( )	30	30	W0	
P	6			
	31			
MD(a)( )	7	7	W3	(LOWER)SW
ED(a)( )	32	32	W2	
P	8			
	33			
CM2(a)( )	9	9	W5	
CM1(a)( )	34	34	W4	(UPPER)SW
	10			
	35			
HC	11		W5	(LOWER) SW
			HC(a)( )	TO CAD 30
QTB	36		QTB(d)	TO CAD 23
	12		(e)	(UPPER) SW
	37			SEL MAG (d)
R(b)( )	13	13	W1	(SEE TABLE A)
T(b)( )	38	38	W0	
P	14			
	39			(UPPER)SW
R1(b)( )	15	15	W3	
T1(b)( )	40	40	W2	
P	16			
	41			
ML(b)( )	17	17	W1	
EL(b)( )	42	42	W0	
P	18			
	43			
MD(b)( )	19	19	W3	(LOWER)SW
ED(b)( )	44	44	W2	
P	20			
	45			
CM2(b)( )	21	21	W5	
CM1(b)( )	46	46	W4	(UPPER)SW
	22			
	47			
HC	23		W5	(LOWER)SW
	48		HC(b)( )	TO CAD 30
A	24		1 9D	(SEL(a))DIODE
			1	(A) REL
B	49		1 9M	(SEL(b))DIODE
			1B	(A) REL
T	25			(LOWER) SW HOLD ON.O
	50		8N	(ENABAB) REL

HORIZONTAL LEVEL (a) SEE TABLE B

HORIZONTAL LEVEL (b) SEE TABLE B

(J1A) CONN ONLY

PLUG ON CONN CABLE (SEE NOTE 201)

(J(C)A) CONN ON UNIT JIP033AD

7

CAD 25

R	1	1	
T	26	26	
P	2		
	27		
R1	3	3	
T1	28	28	
P	4		
	29		
ML	5	5	
EL	30	30	
P	6		
	31		
MD	7	7	
ED	32	32	
P	8		
	33		
CM2	9	9	
CM1	34	34	
	10		
	35		
HORHI	11	11	
ENAB	36		
SEL	12	12	
	37		
R	13	13	(J6 - J10) CONN
T	38	38	
P	14		
	39		
R1	15	15	
T1	40	40	
P	16		
	41		
ML	17	17	
EL	42	42	
P	18		
	43		
MD	19	19	
ED	44	44	
P	20		
	45		
CM2	21	21	
CM1	46	46	
	22		
	47		
HORHI	23	23	
ENAB	48		
SEL	24	24	
	49		
	25		
	50		

TO SUCC CAD 21 (SEE NOTE 1)

PLUG ON CONN CABLE (SEE NOTE 201)

J(6-10)A CONN ON UNIT JIP033AD

TABLE B

(J(C)A) CONN	HOR LEVEL		(UPPPER) SW SEL MAG	
(c)	(a)	(b)	(d)	(e)
J1A	0	9	0	RT
J2A	1	5	1	RB
J3A	2	6	2	LB
J4A	3	7	3	LT
J5A	4	8	4	RT

TABLE A
STRAP ON BACK OF (TS 1) J1P033AD (SEE NOTE 2)

MOD (O)( )	IF LEAD DESIG IS GTB	STRAP BETWEEN TERMINAL NO'S	IF LEAD DESIG IS TMB	STRAP BETWEEN TERMINAL NO'S
Z	0( )	01 TO 00	0( )	51 TO 50
	1( )	11 TO 10	1( )	61 TO 60
	2( )	21 TO 20	2( )	71 TO 70
	3( )	31 TO 30	3( )	81 TO 80
	4( )	41 TO 40	4( )	91 TO 90
Y	5( )	02 TO 00	5( )	52 TO 50
	6( )	12 TO 10	6( )	62 TO 60
	7( )	22 TO 20	7( )	72 TO 70
	8( )	32 TO 30	8( )	82 TO 80
	9( )	42 TO 40	9( )	92 TO 90

NOTES:
1. (J6A-J10A) CONNECTORS SHALL BE CONNECTED TO LIKE NUMBERED (J6-J10) CONNECTORS.
2. SEE CIRCUIT NOTE 111.

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT

DWG SIZE 6S | ISSUE 12A

BELL LABORATORIES | SD-1P106-01 | -G10

CAD 26

					(J11) CONN
GTB0( )	→	1	1	1	1
TMB0( )	→	26	26	26	26
GTB1( )	→	2	2	2	2
TMB1( )	→	27	27	27	27
GTB2( )	→	3	3	3	3
TMB2( )	→	28	28	28	28
GTB3( )	→	4	4	4	4
TMB3( )	→	29	29	29	29
GTB4( )	→	5	5	5	5
TMB4( )	→	30	30	30	30
GTB5( )	→	6	6	6	6
TMB5( )	→	31	31	31	31
GTB6( )	→	7	7	7	7
TMB6( )	→	32	32	32	32
GTB7( )	→	8	8	8	8
TMB7( )	→	33	33	33	33
GTB8( )	→	9	9	9	9
TMB8( )	→	34	34	34	34
GTB9( )	→	10	10	10	10
TMB9( )	→	35	35	35	35
GTG0( )	→	11	11	11	11
HO	→	36	36	36	36 (J11B) CONN
GTG1( )	→	12	12	12	12
TGTG0	→	37	37	37	37
GTG2( )	→	13	13	13	13
	→	38	38	38	38
GTG3( )	→	14	14	14	14
	→	39	39	39	39
GTG4( )	→	15	15	15	15
TAL	→	40	40	40	40
GTG5( )	→	16	16	16	16
DET	→	41	41	41	41
GTG6( )	→	17	17	17	17
QE( )	→	42	42	42	42
GTG7( )	→	18	18	18	18
Y	→	43	43	43	43
GTG8( )	→	19	19	19	19
SC	→	44	44	44	44
GTG9( )	→	20	20	20	20
SEL	→	45	45	45	45
TPB	→	21	21	21	21
ALMI	→	46	46	46	46
A	→	22	22	22	22
B	→	47	47	47	47
C	→	23	23	23	23
D	→	48	48	48	48
E	→	24	24	24	24
F	→	49	49	49	49
G	→	25	25	25	25
H	→	50	50	50	50

TO CAD 12 OR (FOR 2-WA TP APPLICATIONS) TO TAT CONN (SD-1P163-01) OR TO AML CKT (SD-1P111-01) OR TO DTAC CKT (SD-1P177-01) OR TO MTCE CONN CONTROL CKT (SD-1P170-01)

PLUG ON CONN CABLE (SEE NOTE 2)01)

(J11A) CONN ON UNIT J1P033AD

ⓉCAD 27

GTB0( )	→	1	1	1	1
TMB0( )	→	26	26	26	26
GTB1( )	→	2	2	2	2
TMB1( )	→	27	27	27	27
GTB2( )	→	3	3	3	3
TMB2( )	→	28	28	28	28
GTB3( )	→	4	4	4	4
TMB3( )	→	29	29	29	29
GTB4( )	→	5	5	5	5
TMB4( )	→	30	30	30	30
GTB5( )	→	6	6	6	6
TMB5( )	→	31	31	31	31
GTB6( )	→	7	7	7	7
TMB6( )	→	32	32	32	32
GTB7( )	→	8	8	8	8
TMB7( )	→	33	33	33	33
GTB8( )	→	9	9	9	9
TMB8( )	→	34	34	34	34
GTB9( )	→	10	10	10	10
TMB9( )	→	35	35	35	35
GTG0( )	→	11	11	11	11
HO	→	36	36	36	36
GTG1( )	→	12	12	12	12
TGTG0	→	37	37	37	37
GTG2( )	→	13	13	13	13
	→	38	38	38	38
GTG3( )	→	14	14	14	14 (J11A) CONN
	→	39	39	39	39
GTG4( )	→	15	15	15	15
TAL	→	40	40	40	40
GTG5( )	→	16	16	16	16
DET	→	41	41	41	41
GTG6( )	→	17	17	17	17
QE	→	42	42	42	42
GTG7( )	→	18	18	18	18
Y	→	43	43	43	43
GTG8( )	→	19	19	19	19
SC	→	44	44	44	44
GTG9( )	→	20	20	20	20
SEL	→	45	45	45	45
TPB	→	21	21	21	21
ALMI	→	46	46	46	46
A	→	22	22	22	22
B	→	47	47	47	47
C	→	23	23	23	23
D	→	48	48	48	48
E	→	24	24	24	24
F	→	49	49	49	49
G	→	25	25	25	25
H	→	50	50	50	50

TO SUCCEEDING CAD 22 OR TO AUX NET (SD-1P166-01)

PLUG ON CONN CABLE (SEE NOTE 2)01)

(J11B) CONN ON UNIT J1P033AD

CAD 28
LTP MULT-PANEL

					TO SUCCEEDING (JM( )) CONN
GTB0( )	→	1	1	1	1
TMB0( )	→	26	26	26	26
GTB1( )	→	2	2	2	2
TMB1( )	→	27	27	27	27
GTB2( )	→	3	3	3	3
TMB2( )	→	28	28	28	28
GTB3( )	→	4	4	4	4
TMB3( )	→	29	29	29	29
GTB4( )	→	5	5	5	5
TMB4( )	→	30	30	30	30
GTB5( )	→	6	6	6	6
TMB5( )	→	31	31	31	31
GTB6( )	→	7	7	7	7
TMB6( )	→	32	32	32	32
GTB7( )	→	8	8	8	8
TMB7( )	→	33	33	33	33
GTB8( )	→	9	9	9	9
TMB8( )	→	34	34	34	34
GTB9( )	→	10	10	10	10
TMB9( )	→	35	35	35	35
GT80( )	→	11	11	11	11
(W) HO OR (V) 0A	→	36	36	36	36
GTG 1( )	→	12	12	12	12
1A (V)	→	37	37	37	37
GTG2( )	→	13	13	13	13
2A	→	38	38	38	38
GTG3( )	→	14	14	14	14
3A	→	39	39	39	39
GTG4( )	→	15	15	15	15
4A	→	40	40	40	40
GTG5( )	→	16	16	16	16
5A	→	41	41	41	41
GTG6( )	→	17	17	17	17
6A	→	42	42	42	42
GTG7( )	→	18	18	18	18
(W) Y OR (V) 7A	→	43	43	43	43
GTG8( )	→	19	19	19	19
(W) SC OR (V) 8A	→	44	44	44	44
GTG9( )	→	20	20	20	20
(W) SEL OR (V) 9A	→	45	45	45	45
(W) TPB OR (V) 1	→	21	21	21	21
(W) ALMI OR (V) 0B	→	46	46	46	46
(W) A OR (V) 2	→	22	22	22	22
(W) B OR (V) 1B	→	47	47	47	47
(W) C OR (V) 4	→	23	23	23	23
(W) D OR (V) 2B	→	48	48	48	48
(W) E OR (V) 8	→	24	24	24	24
F	→	49	49	49	49
G	→	25	25	25	25
H	→	50	50	50	50

TO PRECEEDING (JM( )) CONN

TO (V) CAD 3, (W) CAD 9 (W) CAD 22, CAD 28, OR TO RTS 5A CONTROL CKT (SEE NOTE 1)

(W) PLUG ON CONN CABLE (SEE NOTE 2)01)

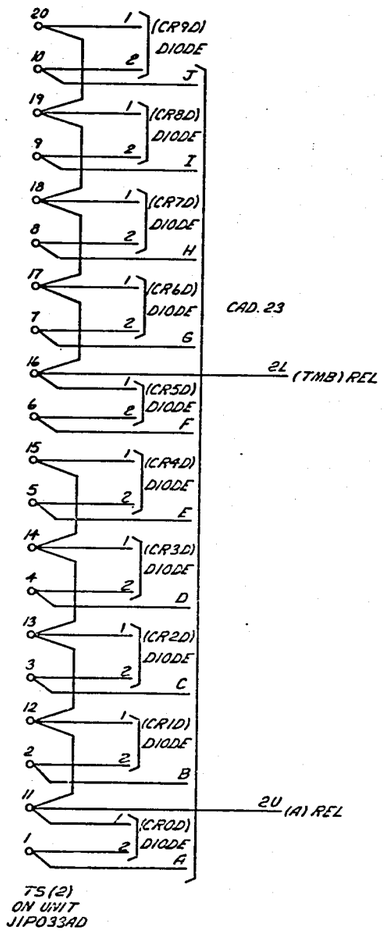
(JM1-7) CONN ON UNIT ED-1P489-( )

NOTES:

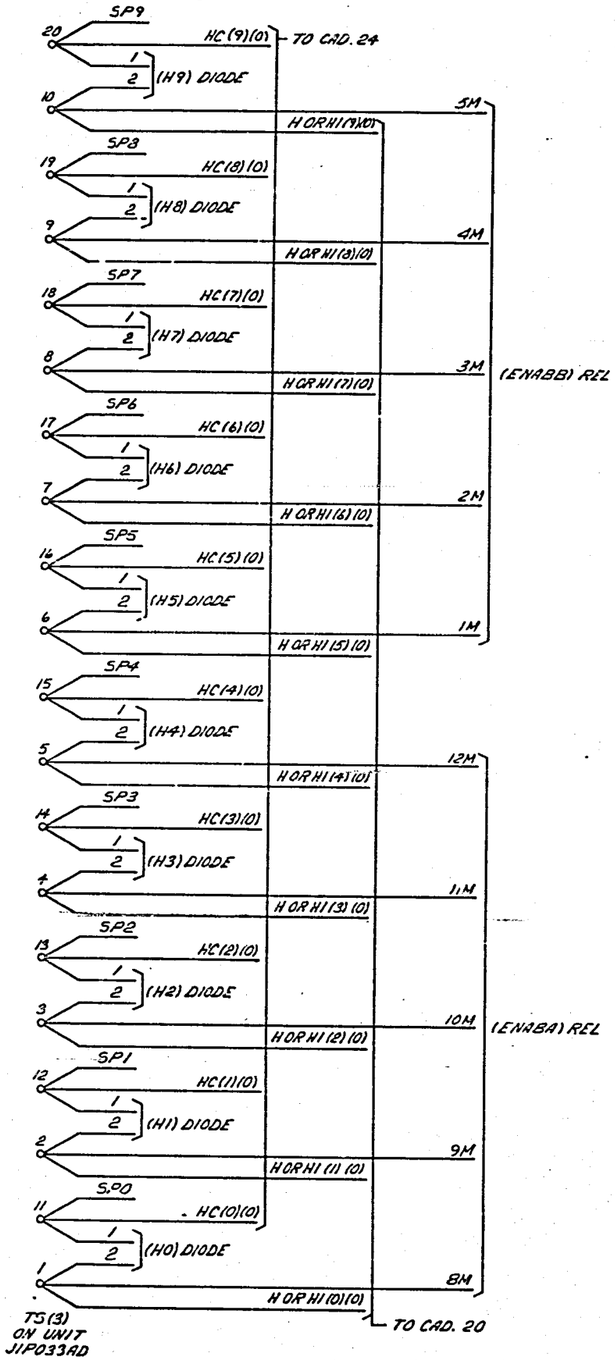
1. (JM1) CONNECTOR SHALL BE USED TO CONNECT TO PRECEEDING (JM7) CONNECTOR.

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT		DWG SIZE 6S	ISSUE 14B
BELL LABORATORIES	SD-1P106-01		-G11

ⓣCAD 29

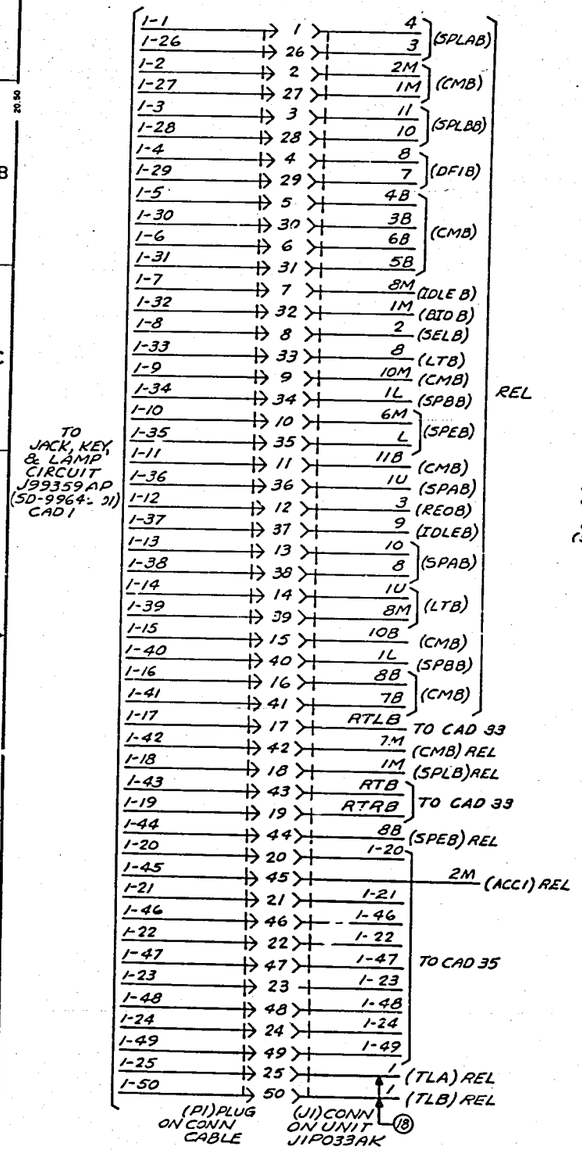


ⓣCAD 30

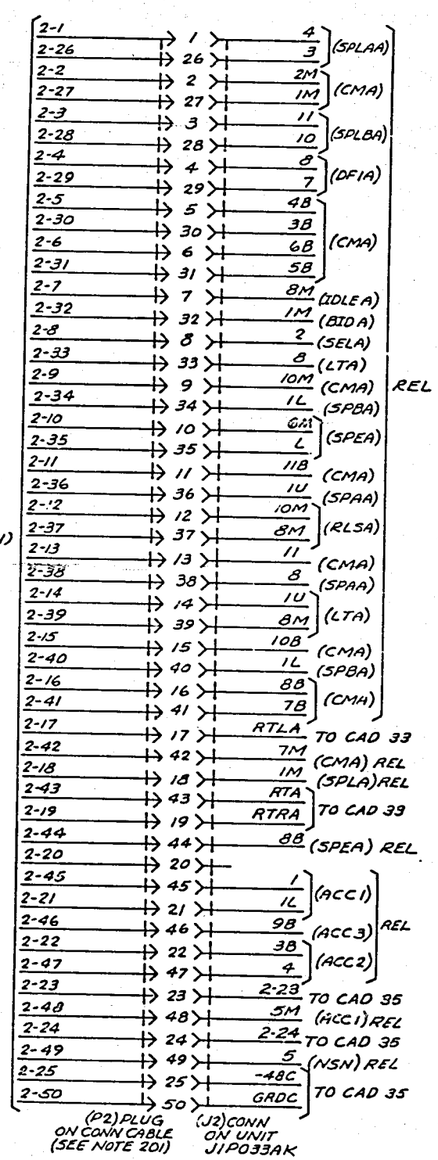


LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT		DWG SIZE 6S	ISSUE 4B
BELL LABORATORIES	SD-1P106-01		- G12

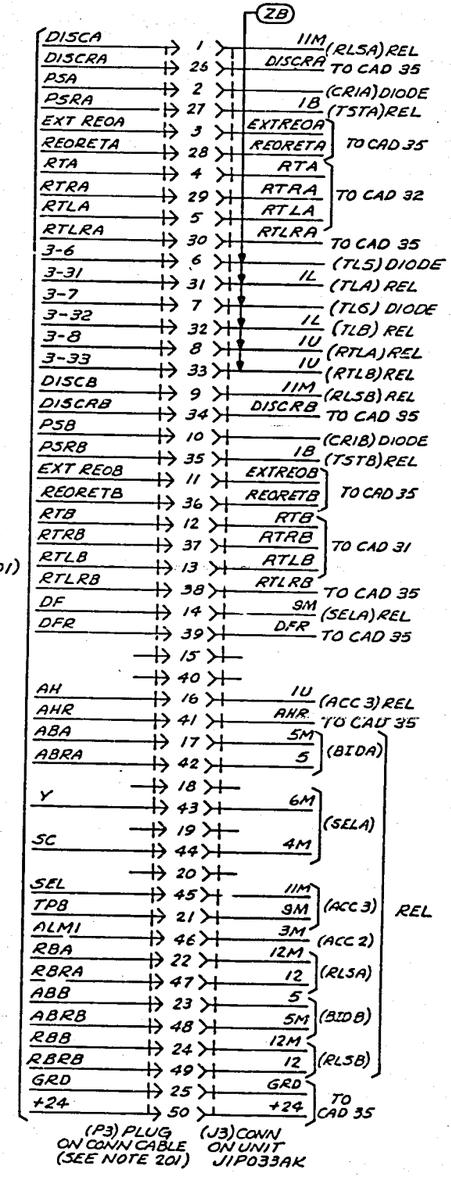
CAD 31
(FOR APP FIG. 15)



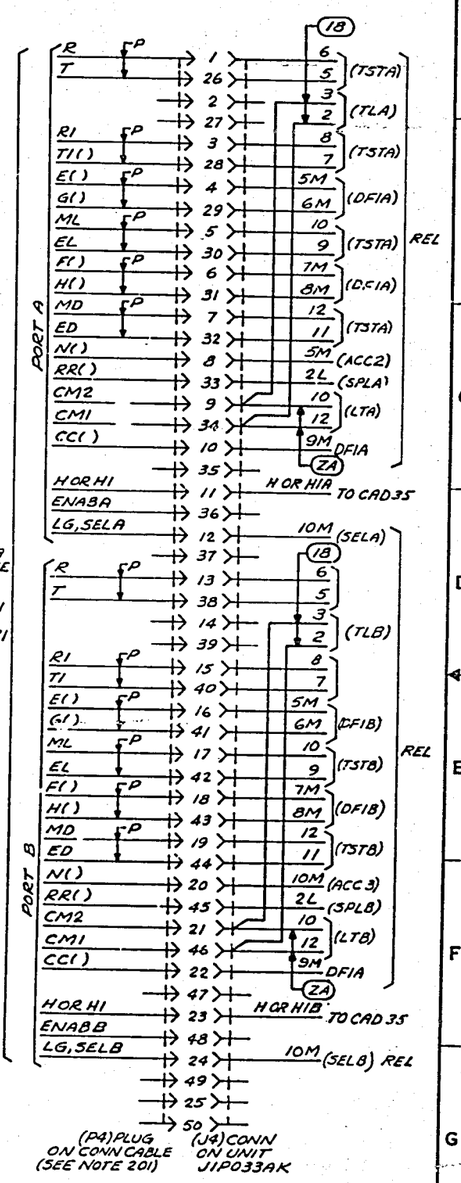
CAD 32
(FOR APP FIG. 15)



CAD 33
(FOR APP FIG. 15)



CAD 34
(FOR APP FIG. 15)



LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT		
	DWG SIZE 6S	ISSUE 14B
BELL LABORATORIES	SD-1P106-01	-G13

CAD 35
(FOR APP FIG. 15)

TO FUSE BOARD -48C

195 -48C 20 TO CAD 32 (SPAA) REL
185
175
165
155 E18 (AMPL UNIT)
12M (SPEA) REL
+24 TO CAD 33
145 9M (RLSB) REL
NORMB TO CAD 34
135 (CR15B) DIODE
EXTRFOR TO CAD 33
125 (CR14B) DIODE
115 10B (IDLEB) REL
9M (RLSA) REL
105 NORMB TO CAD 34
(CR15A) DIODE
95 EXTRFOR TO CAD 33
85 (CR14A) DIODE
10B (IDLEA) REL
75 (CR12) DIODE
65 1-21 TO CAD 31
55 (CR13) DIODE
45 2-23 TO CAD 32
2M (ACCI) REL
35 (CR11) DIODE
25 2-24 TO CAD 32
TO OTHER LOCAL TEST PORTS IN SAME SYS
TO OFFICE INTERRUPTER CKT (SEE NOTE 1) ST 4M
BR3 9M (REGA) REL
15
05
194 8 (RLSA) REL
TO FUSE BOARD GRD(-48)C
184 GRD C TO CAD 32
174 DISCRA
164 REGRETA
154 RTLRA
144 DISCRB TO CAD 33
134 REGRETB
124 RTLRB
114 LOC
104 DFR
94 AUR
84
74 GRD(+24) TO CAD 33
64 E17 (AMP UNIT)
54 1-20
44 1-22
34 1-23
24 1-24 TO CAD 31
14 1-46
04 1-47
1-48
1-49

191 181 171 161 151 141 131 121 111 101 91 81 71 61 51 41 31 21 11 01 190 180 170 160 150 140 130 120 110 100 30 80 70 60 50 40 30 20 10 00

193 183 179 163 153 143 133 123 113 103 93 83 73 63 59 43 33 23 13 03 192 182 172 162 152 142 132 122 112 102 92 82 72 62 52 42 32 22 12 02

TS(I) ON UNIT JIP033AK

NOTES:

1. THESE LEADS MAY BE CONNECTED TO ANY SUITABLE INTERRUPTOR CKT IF BR3 IS NOT AVAILABLE.

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT		DWG SIZE 6S	ISSUE 7A
BELL LABORATORIES	SD-1P108-01		-G14

CAD 36

GTB0(A-D)	1	1
TMB0(A-D)	26	2
GTB1(A-D)	2	3
TMB1(A-D)	27	4
GTB2(A-D)	3	5
TMB2(A-D)	28	6
GTB3(A-D)	4	7
TMB3(A-D)	29	8
GTB4(A-D)	5	9
TMB4(A-D)	30	10
GTB5(A-D)	6	11
TMB5(A-D)	31	12
GTB6(A-D)	7	13
TMB6(A-D)	32	14 (ENI) REL
GTB7(A-D)	8	15
TMB7(A-D)	33	16
GTB8(A-D)	9	17
TMB8(A-D)	34	18
GTB9(A-D)	10	19
TMB9(A-D)	35	20
GTGO(A-D)	11	21
HO	36	22
GTG1(A-D)	12	23
TGTGO	37	24

TO RTS 5A CONTROL CKT (SEE NOTE 1)

GTG2(A-D)	13	1 — 4
RO	38	2
GTG3(A-D)	14	6
BO	39	3
GTG4(A-D)	15	23 (ENO) REL
TAL	40	4
GTG5(A-D)	16	24
DET	41	5
GTG6(A-D)	17	U
FDEN	42	7
GTG7(A-D)	18	8
Y	43	9
GTG8(A-D)	19	10
SC	44	11 (EN2) REL
GTG9(A-D)	20	12
SEL	45	13
TPB	21	14
ALMI	46	15
A	22	16
B	47	17
C	23	18
D	48	19
E	24	20
F	49	21
G	25	22
H	50	

PLUG ON CONN CABLE (SEE NOTE 201) — (J5) CONN ON UNIT J1P033AL

CAD 37

GTB0A	1	1B
TMB0A	26	2B
GTB1A	2	3B
TMB1A	27	4B
GTB2A	3	5B
TMB2A	28	6B
GTB3A	4	7B (B2) REL
TMB3A	29	8B
GTB4A	5	9B
TMB4A	30	10B
GTB5A	6	11B
TMB5A	31	12B
GTB6A	7	1B
TMB6A	32	2B
GTB7A	8	3B
TMB7A	33	4B
GTB8A	9	5B (B4) REL
TMB8A	34	6B
GTB9A	10	7B
TMB9A	35	8B
GTGOA	11	9B
HO	36	10B
GTG1A	12	11B
TGTGO	37	12B

TO CAD 22 (FOR QUADRANT A)

GTG2A	13	1B
	38	
GTG3A	14	2B
	39	
GTG4A	15	3B
TAL	40	11B (AL) REL
GTG5A	16	4B 12B
DET	41	
GTG6A	17	5B
QEA	42	6B (A4) REL
GTG7A	18	7B
Y	43	8B
GTG8A	19	9B
SC	44	10B
GTG9A	20	11B
SEL	45	12B
TPB	21	1B
ALMI	46	2B
A	22	3B
B	47	4B
C	23	5B (A6) REL
D	48	6B
E	24	7B
F	49	8B
G	25	9B
H	50	10B

PLUG ON CONN CABLE (SEE NOTE 201) — (J4) CONN ON UNIT J1P033AL

CAD 38

GTB0B	1	1M
TMB0B	26	2M
GTB1B	2	3M
TMB1B	27	4M
GTB2B	3	5M
TMB2B	28	6M (B2) REL
GTB3B	4	7M
TMB3B	29	8M
GTB4B	5	9M
TMB4B	30	10M
GTB5B	6	11M
TMB5B	31	12M
GTB6B	7	1M
TMB6B	32	2M
GTB7B	8	3M
TMB7B	33	4M
GTB8B	9	5M (B4) REL
TMB8B	34	6M
GTB9B	10	7M
TMB9B	35	8M
GTGOB	11	9M
HO	36	10M
GTG1B	12	11M
TGTGO	37	12M

TO CAD 22 (FOR QUADRANT B)

GTG2B	13	1B
	38	
GTG3B	14	2B
	39	
GTG4B	15	3B
TAL	40	11B (A5) REL
GTG5B	16	4B 12B
DET	41	
GTG6B	17	5B (A3) REL
QEB	42	6B
GTG7B	18	7B
Y	43	8B
GTG8B	19	9B
SC	44	10B
GTG9B	20	11B
SEL	45	12B
TPB	21	1B
ALMI	46	2B
A	22	3B
B	47	4B
C	23	5B (A5) REL
D	48	6B
E	24	7B
F	49	8B
G	25	9B
H	50	10B

PLUG ON CONN CABLE (SEE NOTE 201) — (J3) CONN ON UNIT J1P033AL

CAD 39

GTB0C	1	1B
TMB0C	26	2B
GTB1C	2	3B
TMB1C	27	4B
GTB2C	3	5B
TMB2C	28	6B
GTB3C	4	7B (B1) REL
TMB3C	29	8B
GTB4C	5	9B
TMB4C	30	10B
GTB5C	6	11B
TMB5C	31	12B
GTB6C	7	1B
TMB6C	32	2B
GTB7C	8	3B
TMB7C	33	4B
GTB8C	9	5B
TMB8C	34	6B
GTB9C	10	7B (B3) REL
TMB9C	35	8B
GTGOC	11	9B
HO	36	10B
GTG1C	12	11B
TGTGO	37	12B

TO CAD 22 (FOR QUADRANT C)

GTG2C	13	1M
	38	
GTG3C	14	2M
	39	
GTG4C	15	3M
TAL	40	11M
GTG5C	16	4M (A6) REL
DET	41	12M
GTG6C	17	5M (A4) REL
QEC	42	6M
GTG7C	18	7M
Y	43	8M
GTG8C	19	9M
SC	44	10M
GTG9C	20	11M
SEL	45	12M
TPB	21	1M
ALMI	46	2M
A	22	3M
B	47	4M
C	23	5M
D	48	6M (A6) REL
E	24	7M
F	49	8M
G	25	9M
H	50	10M

PLUG ON CONN CABLE (SEE NOTE 201) — (J2) CONN ON UNIT J1P033AL

NOTES:

1. CORRESPONDENCE BETWEEN LEAD DESIGNATIONS AND SMAS NO. LEADING DIGIT IS AS FOLLOWS: A-5, B-6, C-7, D-8.

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT	DWG SIZE 6S	ISSUE 10B
BELL LABORATORIES	SD-1P108-Ci	-615

CAD 40

GTB0D	1	1M	
TMB0D	26	2M	
GTB1D	2	3M	
TMB1D	27	4M	
GTB2D	3	5M	
TMB2D	28	6M	
GTB3D	4	7M	(B1) REL
TMB3D	29	8M	
GTB4D	5	9M	
TMB4D	30	10M	
GTB5D	6	11M	
TMB5D	31	12M	
GTB6D	7	1M	
TMB6D	32	2M	
GTB7D	8	3M	
TMB7D	33	4M	
GTB8D	9	5M	
TMB8D	34	6M	
GTB9D	10	7M	(B3) REL
TMB9D	35	8M	
GTG0D	11	9M	
H0	36	10M	
GTG1D	12	11M	
TGTG0	37	12M	
GTG2D	13	1M	
GTG3D	38		
	14	2M	
GTG4D	39		
TAL	15	3M	
GTG5D	40	11M	
DET	16	4M	(A5) REL
GTG6D	41	12M	
QED	17	5M	
GTG7D	42	6M	(A3) REL
Y	18	7M	
GTG8D	43	8M	
SC	19	9M	
GTG9D	44	10M	
SEL	20	11M	
TPB	45	12M	
ALM1	21	1M	
A	46	2M	
B	22	3M	
C	47	4M	
D	23	5M	(A5) REL
E	24	6M	
F	49	7M	
G	25	8M	
H	50	9M	
		10M	

TO CAD 22 (FOR QUADRANT D)

PLUG ON CONN CABLE (SEE NOTE 201)

(J1) CONN ON UNIT J1P033AL

CAD 41

TO FUSE PANEL	-48V(K)	195	4
	GRD(K)	184	8

(ENO) REL

TS(1) ON J1P033AL

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT		DWG SIZE 6S	ISSUE 10B
BELL LABORATORIES	SD-1P106-01		-G16

CAD 42

(FOR APP FIG. 5,6,10 & 12)

(UNTO) REL
TO CAD 6
0B
1A
0A
1B
8
4
2
10
DIODE
(CR28)
(CR27)
(CR25)
(CR24
191
181
171
161
151
141
131
121
111
101
91
81
71
61
51
41
31
21
11
01
(W) 1ST PORT IN SYS ONLY
TS(I) OF PREC UNIT NC ON FIRST UNIT IN SYSTEM
TO ALL LIKE LEADS IN SAME SYSTEM
ACC INH
PSA
PSB
TS (1)
ABR
SEL INH
(W) TO ALL LIKE LEADS IN SAME SYSTEM
DISCA
DISCRA
ABA
ABRA
PSA
PSRA
TO CAD 7
11M (RLSA) REL
8 (IDLEA) REL
5M (BIDA) REL
5 (BIDA) REL
(CR30A) DIODE
1B (TSTA) REL
5B (BIDA) REL
3 (SELA) REL
190
180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
00
1M (ACC1) REL
(CR52) DIODE
2-21 TO CAD 44
(CR53) DIODE
2B (ACC1) REL
(ZH)
(ZF)
-48C TO TS(1), 17A9
4 (CA1) COMP ASSY
193
183
173
163
153
143
133
123
113
103
93
83
73
63
53
43
33
23
13
03
DISCB
DISCRB
ABB
ABRB
PSB
PSRB
TO CAD 7
11M (RLSB) REL
8 (IDLEB) REL
5M (BIDB) REL
5 (BIDB) REL
(CR30B) DIODE
1B (TSTB) REL
5B (BIDB) REL
3 (SELB) REL
192
182
172
162
152
142
132
122
112
102
92
82
72
62
52
42
32
22
12
02
TO TS(1)
TO TS(1) OF ACCINH SUCC UNIT
TO TS(1) SELINH
TS(1) ON JIP033AC LG UNIT
TO FUSE BOARD (SEE NOTE 2)
TO OTHER LTP'S IN SAME SYS
TO OFFICE INTERRUPTER CKT (SEE NOTE 1)
-48C
+130
+24
ST
BR3
2U (SPAA) REL
-48C TO CAD 44
-48C TO TS(1), 17A5
(R5) RES
12M (SPEA) REL
(CR21) DIODE
E5 (24V) CONV
+24 TO CAD 7
1-41
1-22 TO CAD 43
1-46
2B (NSN) REL
(CR51) DIODE
1-21
1-43 TO CAD 43
(CR50) DIODE
2-24
2M TO CAD 44 (ACC1) REL
(CR49) DIODE
2-23
4M TO CAD 44
3M (RE0A) REL
1-20
9 TO CAD 43 (RLSA) REL
GRDC TO CAD 44
1-19
1-24 TO CAD 43
1-48
1-23
GRD(+24) TO CAD 7
GRD(-48C)
GRD(+130)
GRD(+24)
195
185
175
165
155
145
135
125
115
105
95
85
75
65
55
45
35
25
15
05
194
184
174
164
154
144
134
124
114
104
94
84
74
64
54
44
34
24
14
04
8 (ACC3) REL
12M (SELA) REL
5 (ACC2) REL
8B (ACC3) REL
5B (NSN) REL
5B (ACC2) REL
9M (ACC3) REL
(R3) RES
5M (ACC2) REL

NOTES:

1. THESE LEADS MAY BE CONNECTED TO ANY SUITABLE INTERRUPTOR CKT IF BR3 IS NOT AVAILABLE.
2. INPUT LEADS TO TERMINALS (184-195), (164-175) AND (144-155) SHALL BE PAIRED.

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT		DWG SIZE 6S	ISSUE 13AC
BELL LABORATORIES	SD-1P106-01		-G17

CAD 43
(FOR APP FIG. 5, 6, 10 & 12)

10R1-1	1	4		
26 OR1-26	26	3	(SPLAB)	
2 OR1-2	2	2M		
27 OR1-27	27	1M	(SPEB)	
3 OR1-3	3	11		
28 OR1-28	28	10	(SPLBB)	
4 OR1-4	4	4M		
29 OR1-29	29	3M	(SPEB)	
5 OR1-5	5	4B		
30 OR1-30	30	3B		
6 OR1-6	6	6B	(CMB)	
31 OR1-31	31	5B		
7 OR1-7	7	1U	(IDLEB)	
32 OR1-32	32	1L	(BIDB)	
8 OR1-8	8	2	(SELB)	
33 OR1-33	33	7		
9 OR1-9	9	10M	(CMB)	REL
34 OR1-34	34	1L	(SPBB)	
10 OR1-10	10	6M	(SPEB)	
35 OR1-35	35	11B	(CMB)	
11 OR1-11	11	9B		
36 OR1-36	36	1U	(SPAB)	
12 OR1-12	12	10M		
37 OR1-37	37	8M	(RLSB)	
13 OR1-13	13	10	(CMB)	
38 OR1-38	38	8	(SPAB)	
14 OR1-14	14	1U		
39 OR1-39	39	6M	(LTB)	
15 OR1-15	15	10B	(CMB)	
40 OR1-40	40	1L	(SPBB)	
16 OR1-16	16	8B		
41 OR1-41	41	7B	(CMB)	
17 OR1-17	17	RTLB	TO CAD 7	
42 OR1-42	42	7M	(CMB) REL	
18 OR1-18	18	1M	(SPLB) REL	
43 OR1-43	43	RTB		
19 OR1-19	19	RTRB	TO CAD 7	
44 OR1-44	44	8B	(SPEB) REL	
20 OR1-20	20	1-20		
45 OR1-45	45	1-45		
21 OR1-21	21	1-21		
46 OR1-46	46	1-46		
22 OR1-22	22	1-22	TO CAD 42	
47 OR1-47	47	1-47		
23 OR1-23	23	1-23		
48 OR1-48	48	1-48		
24 OR1-24	24	1-24		
49 OR1-49	49	1-49		
	25			
	50			

TO CAD 1 OR TO JACK, KEY & LAMP CIRCUIT (SD-99695-01)

PLUG ON CONN CABLE (SEE NOTE 201)

(J1) CONN ON UNIT J1P033AC

CAD 44
(FOR APP FIG. 5, 6, 10 & 12)

1 OR 2-1	1	4		
26 OR 2-26	26	3	(SPLAA)	
2 OR 2-2	2	2M		
27 OR 2-27	27	1M	(SPEA)	
3 OR 2-3	3	11		
28 OR 2-28	28	10	(SPLBA)	
4 OR 2-4	4	4M		
29 OR 2-29	29	3M	(SPEA)	
5 OR 2-5	5	4B		
30 OR 2-30	30	3B		
6 OR 2-6	6	6B	(CMA)	
31 OR 2-31	31	5B		
7 OR 2-7	7	1U	(IDLEA)	
32 OR 2-32	32	1L	(BIDA)	
8 OR 2-8	8	2	(SELA)	
33 OR 2-33	33	7		
9 OR 2-9	9	10M	(CMA)	REL
34 OR 2-34	34	1L	(SPBA)	
10 OR 2-10	10	6M	(SPEA)	
35 OR 2-35	35	11B		
11 OR 2-11	11	9B	(CMA)	
36 OR 2-36	36	1U	(SPAA)	
12 OR 2-12	12	10M		
37 OR 2-37	37	8M	(RLSA)	
13 OR 2-13	13	10	(CMA)	
38 OR 2-38	38	8	(SPAA)	
14 OR 2-14	14	1U		
39 OR 2-39	39	6M	(LTA)	
15 OR 2-15	15	10B	(CMA)	
40 OR 2-40	40	1L	(SPBA)	
16 OR 2-16	16	8B		
41 OR 2-41	41	7B	(CMA)	
17 OR 2-17	17	RTLA	TO CAD 7	
42 OR 2-42	42	7M	(CMA) REL	
18 OR 2-18	18	1M	(SPLA) REL	
43 OR 2-43	43	RTA		
19 OR 2-19	19	RTRA	TO CAD 7	
44 OR 2-44	44	8B	(SPEA) REL	
20 OR 2-20	20	3	(SELA) REL	
45 OR 2-45	45	1	(ACC1) REL	
21 OR 2-21	21	2-21	TO CAD 42	
46 OR 2-46	46	9B	(ACC3) REL	
22 OR 2-22	22	3B		
47 OR 2-47	47	4	(ACC2) REL	
23 OR 2-23	23	2-23	TO CAD 42	
48 OR 2-48	48	5M	(ACC1) REL	
24 OR 2-24	24	2-24	TO CAD 42	
49 OR 2-49	49	10	(BUSY) REL	
25 OR 2-25	25	-48C		
50 OR 2-50	50	GRDC	TO CAD 42	

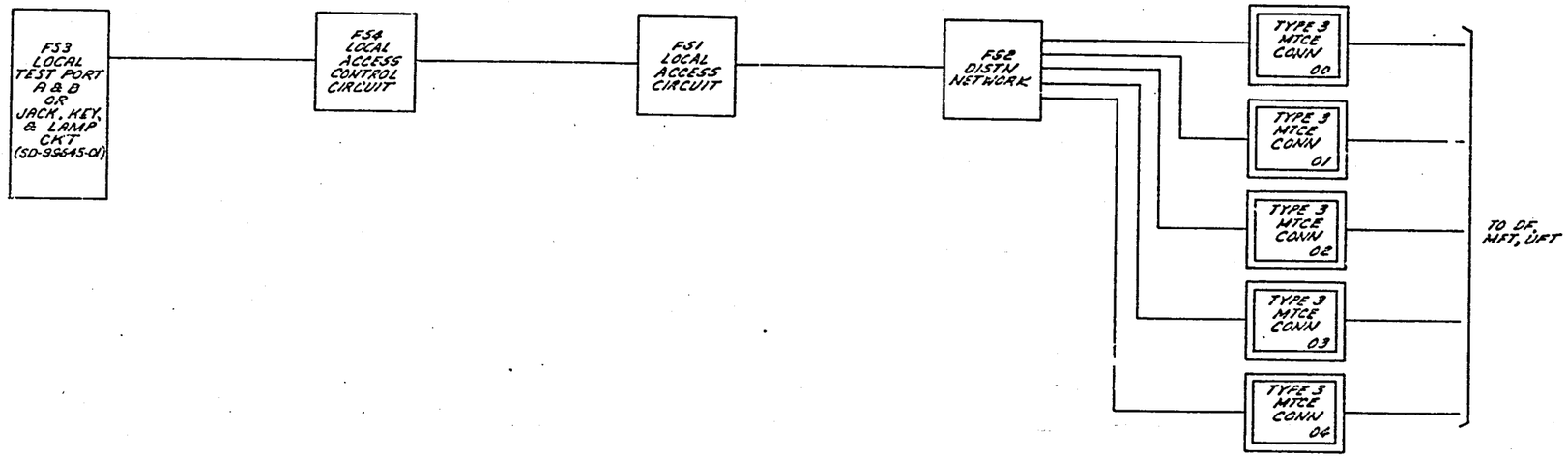
TO CAD 2 OR TO JACK, KEY & LAMP CIRCUIT (SD-99695-01)

PLUG ON CONN CABLE (SEE NOTE 201)

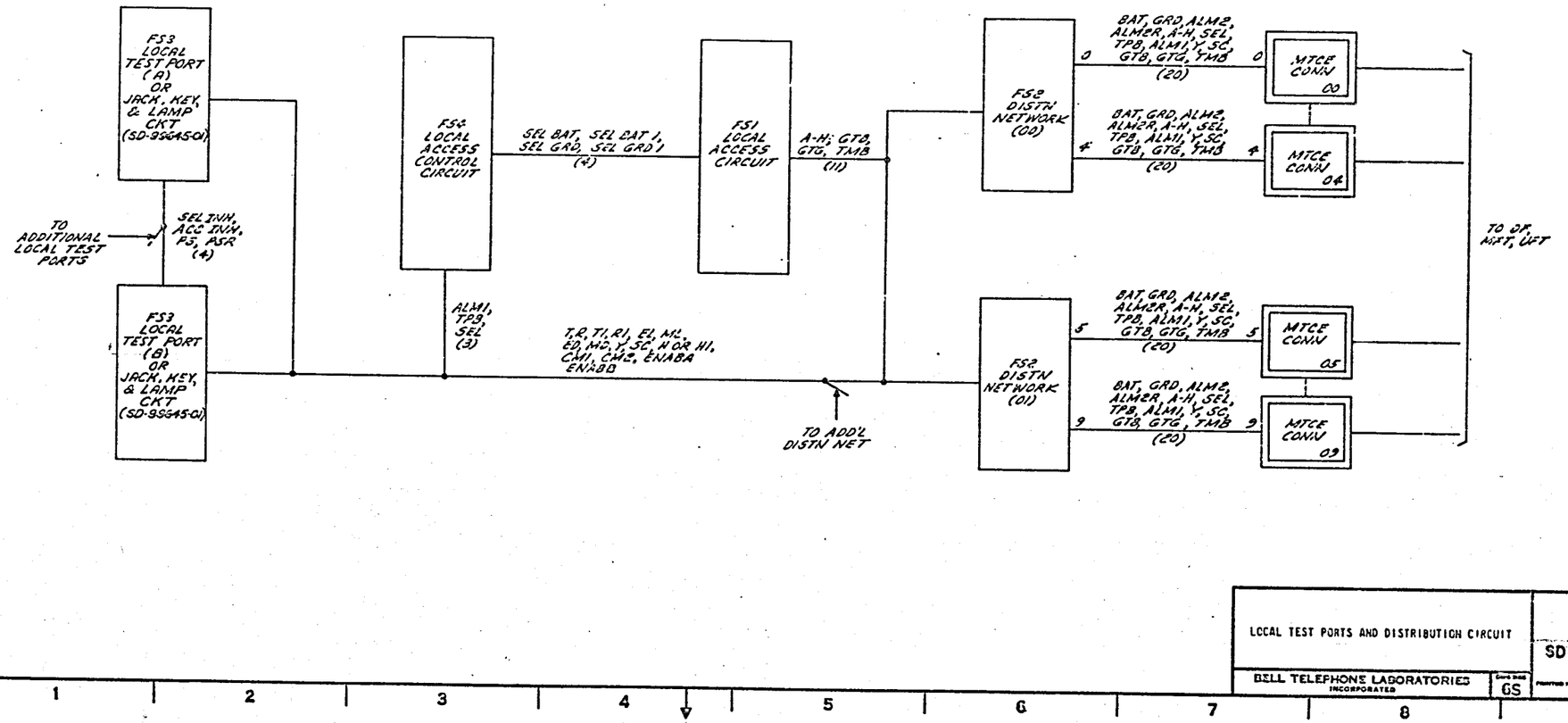
(J2) CONN ON UNIT J1P033AC

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT		DWG SIZE	ISSUE
		B3	9AC
BELL LABORATORIES	SD-1P106-01		-G18

BD 1
SWITCHED MTCE SYSTEM NO.5
STAND ALONE (2 PORTS SHOWN)



BD 2
CONNECTING CIRCUITRY
FOR TWO-PORT STAND ALONE



ISSUE 6B

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT

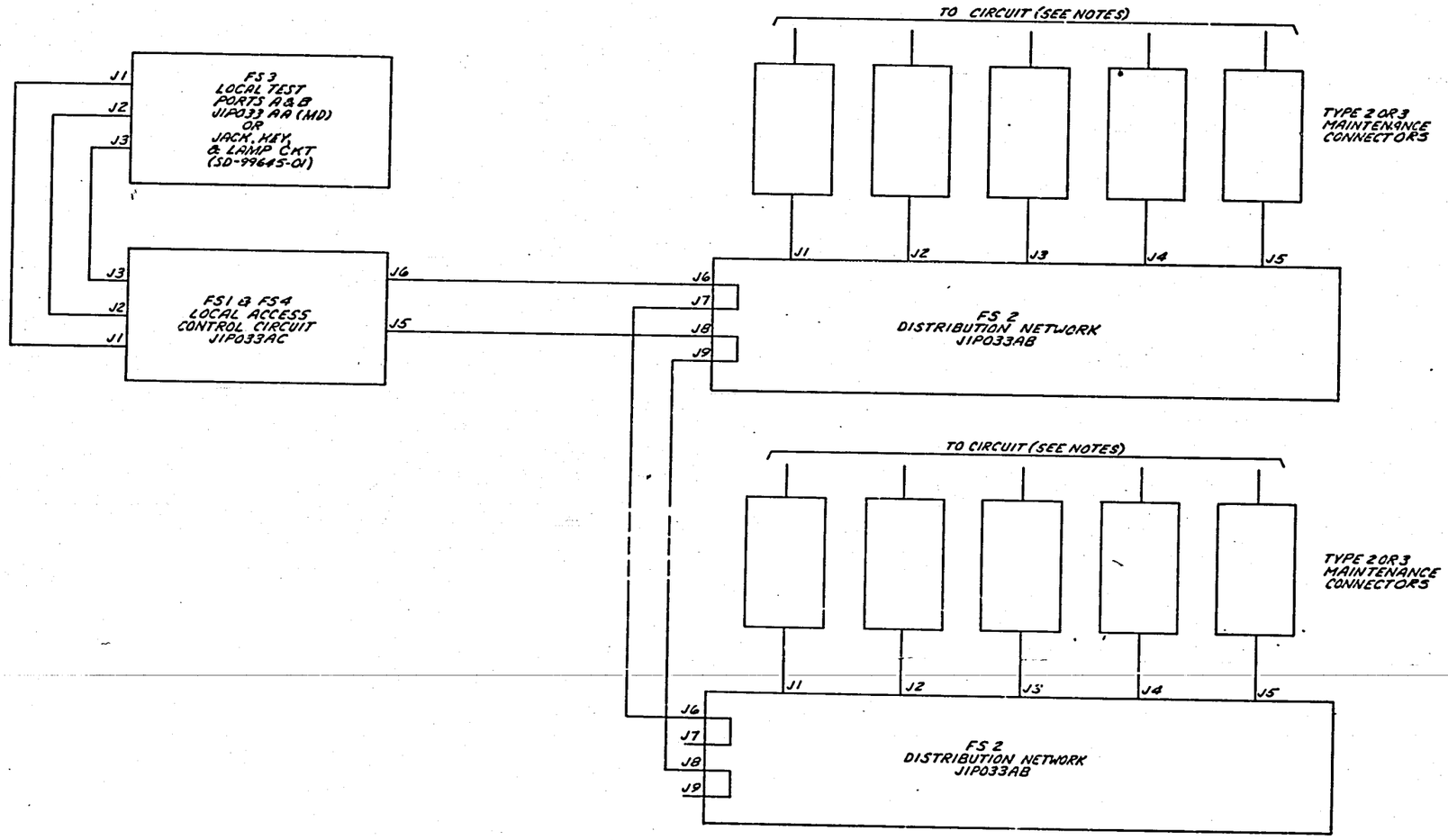
BELL TELEPHONE LABORATORIES INCORPORATED

SD-1P106-01-HI

6S

BD3

SMAS 5A STANDALONE WITH TWO PORTS



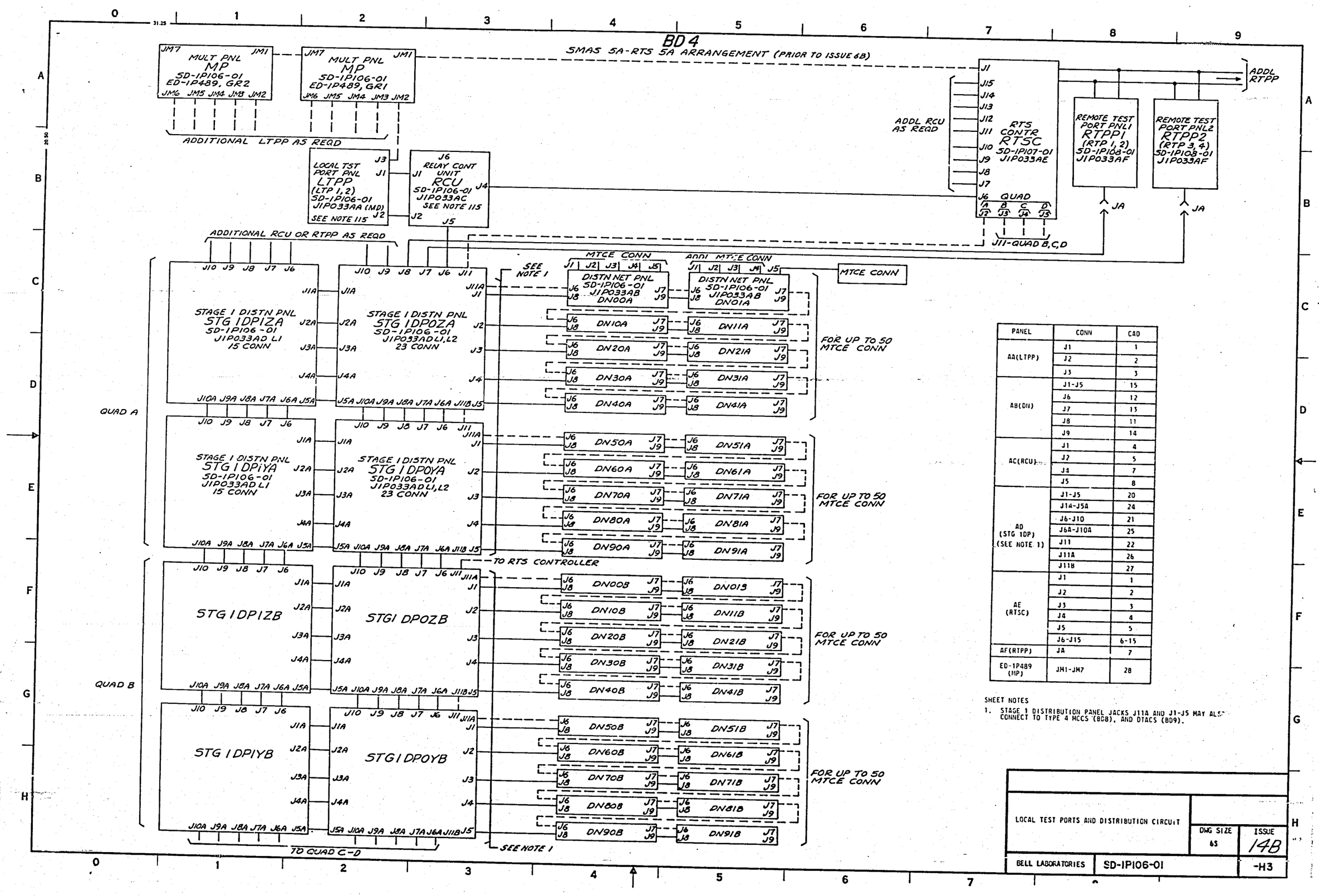
NOTES:

1. SIX (6) INTERCONNECTING CABLES ARE REQUIRED FOR TYPE 2 MAINTENANCE CONNECTORS, AND FOUR (4) ARE REQUIRED FOR THE TYPE 3 MAINTENANCE CONNECTORS.
2. A TOTAL OF 20 DISTRIBUTION NETWORKS AND UP TO 100 MAINTENANCE CONNECTORS MAY BE CONNECTED AS A STANDALONE.

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT		
	DWG SIZE: 6S	ISSUE: 6B
BELL LABORATORIES	SD-1P106-01	-H2

BD 4

SMAS 5A-RTS 5A ARRANGEMENT (PRIOR TO ISSUE 6B)



PANEL	CONN	CAD
AA(LTPP)	J1	1
	J2	2
	J3	3
AB(DN)	J1-J5	15
	J6	12
	J7	13
	J8	11
	J9	14
AC(RCU)	J1	4
	J2	5
	J3	7
	J5	8
AD (STG 1DP) (SEE NOTE 1)	J1-J5	20
	J1A-J5A	24
	J6-J10	21
	J6A-J10A	25
	J11	22
	J11A	26
	J11B	27
AE (RTSC)	J1	1
	J2	2
	J3	3
	J4	4
	J5	5
	J6-J15	6-15
AF(RTPP)	JA	7
ED-1P489 (MP)	JM1-JM7	28

SHEET NOTES

1. STAGE 1 DISTRIBUTION PANEL JACKS J11A AND J1-J5 MAY ALSO CONNECT TO TYPE 4 MCCS (BD8), AND DTACS (BD9).

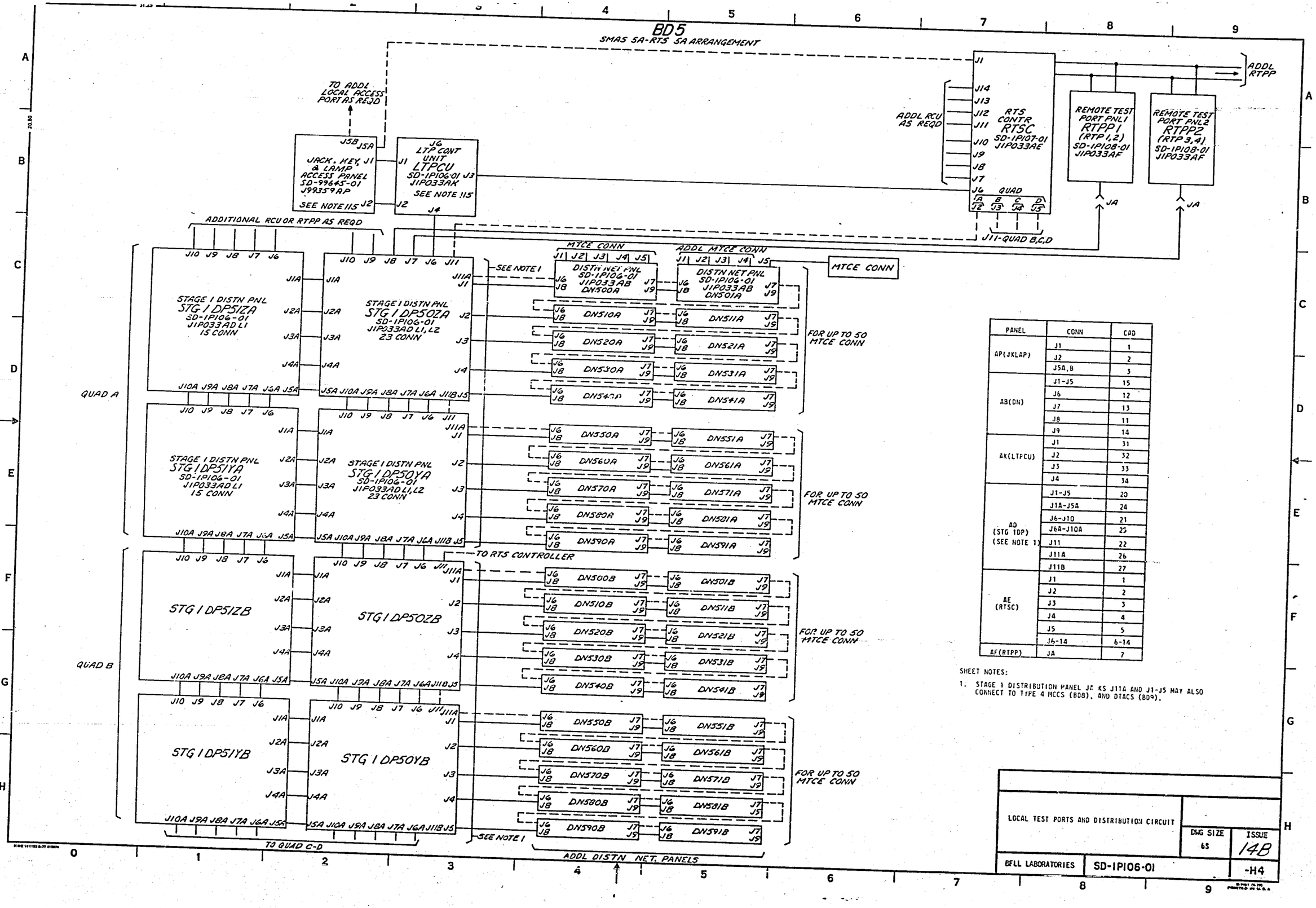
LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT

DWG SIZE 6S | ISSUE 14B

BELL LABORATORIES | SD-1P106-01 | -H3

BD5

SMAS SA-RTS SA ARRANGEMENT



PANEL	CONN	CAD
AP(JKLAP)	J1	1
	J2	2
	J5A, B	3
AB(DN)	J1-J5	15
	J6	12
	J7	13
	J8	11
	J9	14
AK(LTPCU)	J1	31
	J2	32
	J3	33
	J4	34
AD (STG 1DP) (SEE NOTE 1)	J1-J5	20
	J1A-J5A	24
	J6-J10	21
	J6A-J10A	25
	J11	22
	J11A	26
	J11B	27
AE (RTSC)	J1	1
	J2	2
	J3	3
	J4	4
	J5	5
	J6-14	6-14
AF(RTPP)	JA	7

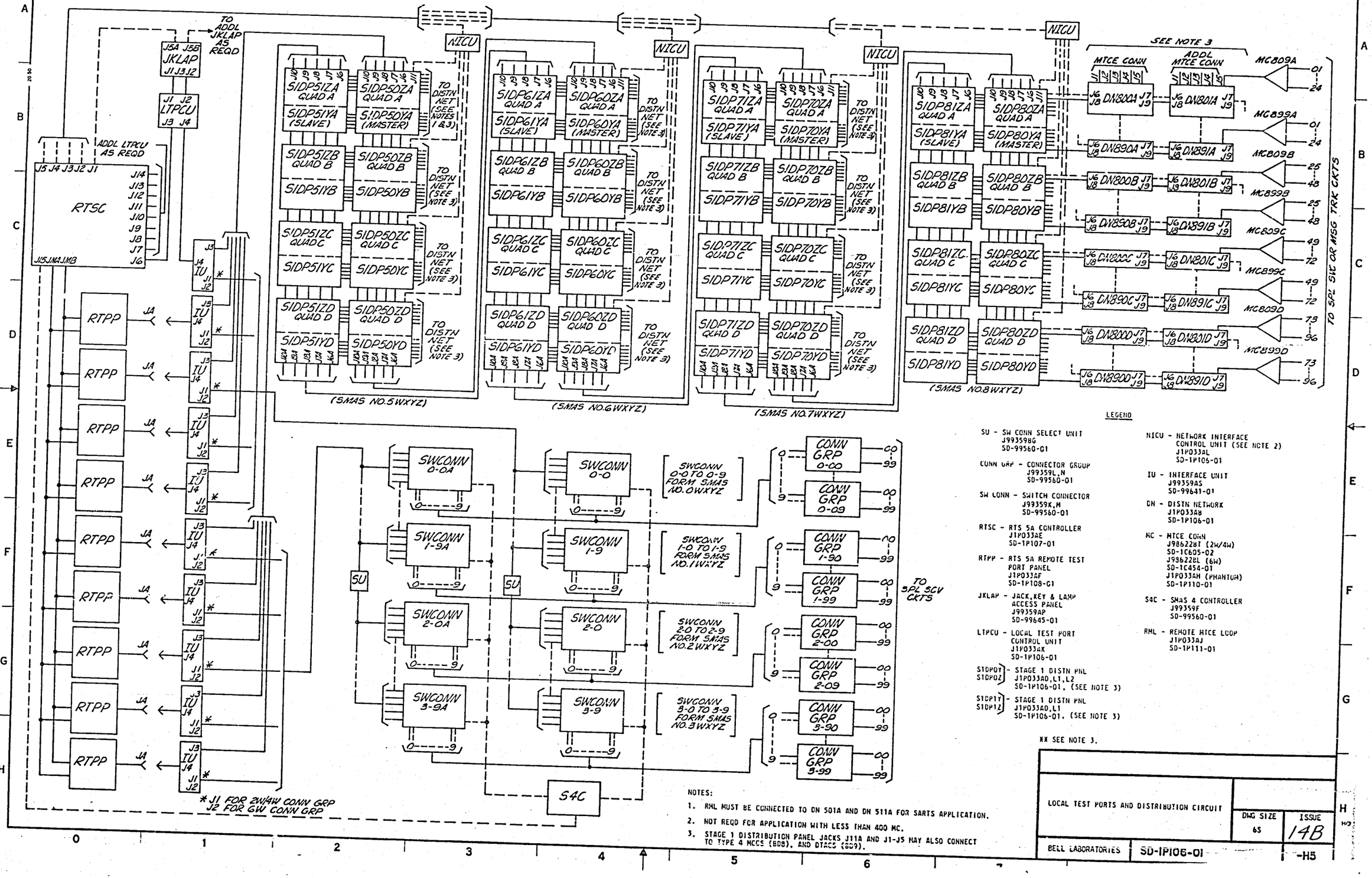
SHEET NOTES:

1. STAGE 1 DISTRIBUTION PANEL JACKS J11A AND J1-J5 MAY ALSO CONNECT TO TYPE 4 MCCS (BD8), AND DTACS (BD9).

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT	DWG SIZE 6S	ISSUE 14B
BELL LABORATORIES	SD-1P106-01	-H4

BD 6

SMAS 5B-RTS 5A ARRANGEMENT



LEGEND

SU - SW CONN SELECT UNIT
J99359BG
SD-99560-01

CONN GRP - CONNECTOR GROUP
J99359L,N
SD-99560-01

SW CONN - SWITCH CONNECTOR
J99359X,M
SD-99560-01

RTSC - RTS 5A CONTROLLER
J1P033AE
SD-1P107-01

RTPP - RTS 5A REMOTE TEST PORT PANEL
J1P033AF
SD-1P108-01

JKLAP - JACK,KEY & LAMP ACCESS PANEL
J99359AP
SD-99645-01

LTPCU - LOCAL TEST PORT CONTROL UNIT
J1P033AK
SD-1P106-01

S1DP0Y, S1DP0Z - STAGE 1 DISTN PNL
J1P033AD,L1,L2
SD-1P106-01, (SEE NOTE 3)

S1DP1Y, S1DP1Z - STAGE 1 DISTN PNL
J1P033AD,L1
SD-1P106-01, (SEE NOTE 3)

NICU - NETWORK INTERFACE CONTROL UNIT (SEE NOTE 2)
J1P033AL
SD-1P105-01

IU - INTERFACE UNIT
J99359AS
SD-99641-01

DN - DISTN NETWORK
J1P033AB
SD-1P106-01

MC - MTCE CONN
J98622BT (2W/4W)
SD-1C605-02
J98622BL (6W)
SD-1C454-01
J1P033AH (PHANTOM)
SD-1P110-01

S4C - SMAS 4 CONTROLLER
J99359F
SD-99560-01

RML - REMOTE MTCE LOOP
J1P033AJ
SD-1P111-01

** SEE NOTE 3.

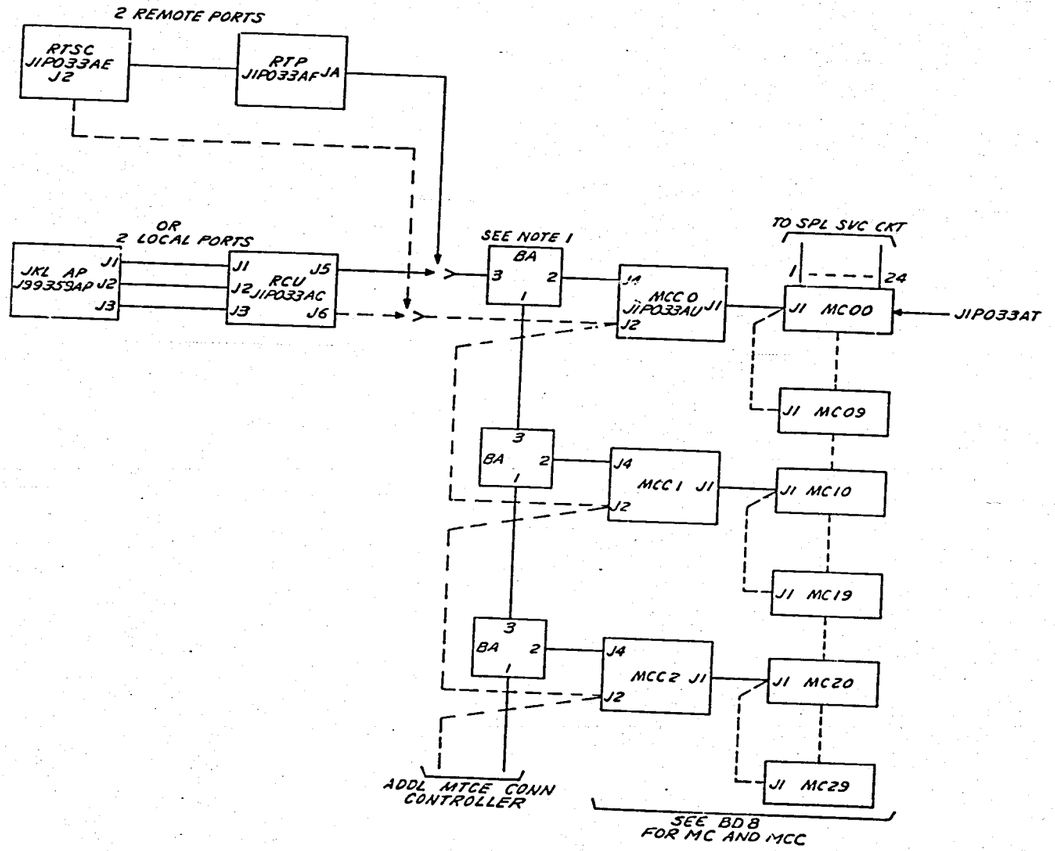
NOTES:

1. RML MUST BE CONNECTED TO DN 501A AND DN 511A FOR SARTS APPLICATION.
2. NOT REQD FOR APPLICATION WITH LESS THAN 400 MC.
3. STAGE 1 DISTRIBUTION PANEL JACKS J11A AND J1-J5 MAY ALSO CONNECT TO TYPE 4 MCCS (BDB), AND DTACS (BDD).

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT		DWG SIZE 6S	ISSUE 14B
BELL LABORATORIES	SD-1P106-01		-H5

BD 7

TWO PORT SYSTEM INTERCONNECTION
FOR TYPE 4 MC & MCC



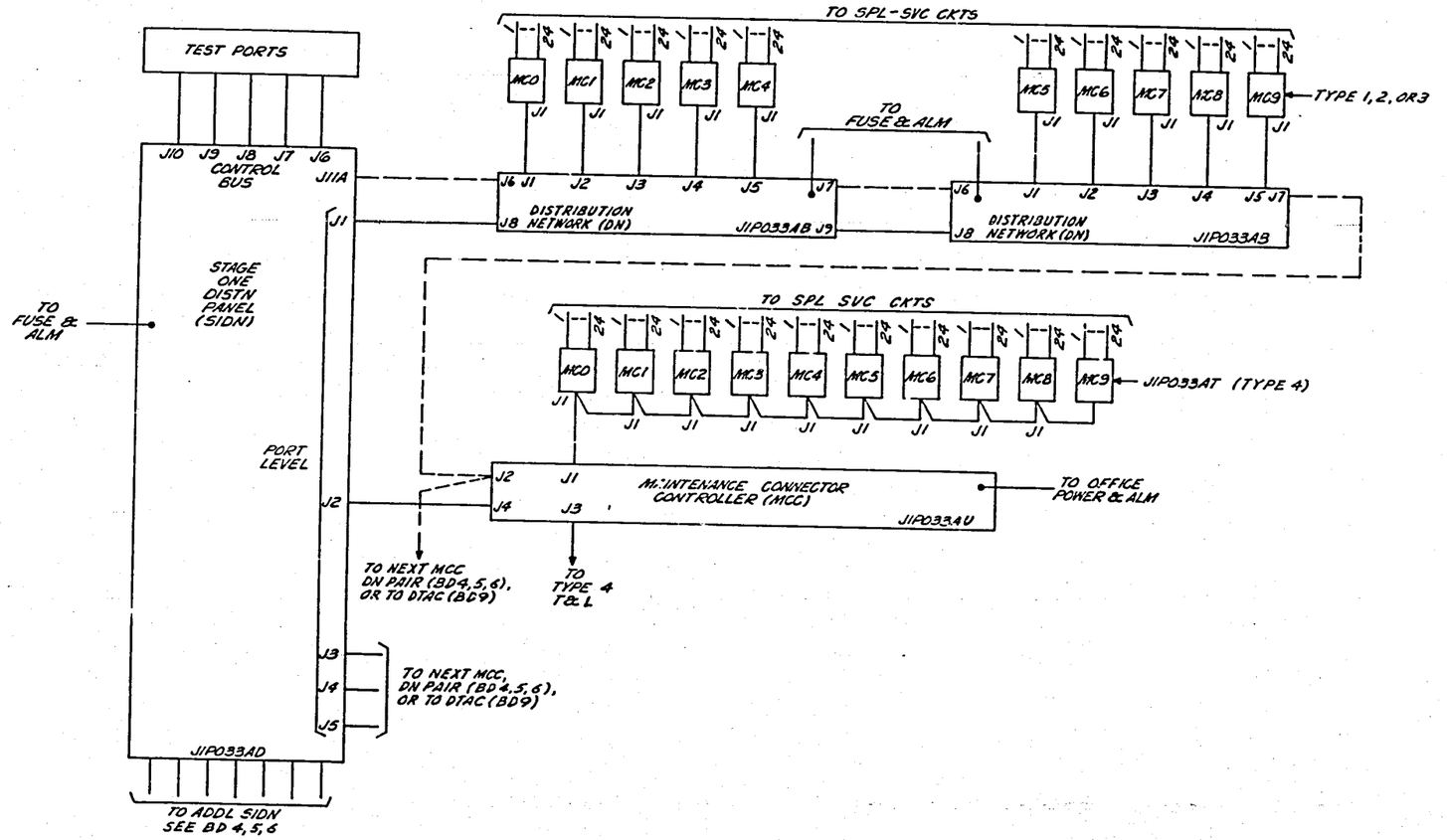
NOTES:

1. BA = ED-1P495-30.

LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT		
	DWG SIZE 6S	ISSUE 14B
BELL LABORATORIES	SD-1P106-01	-H6

BD8

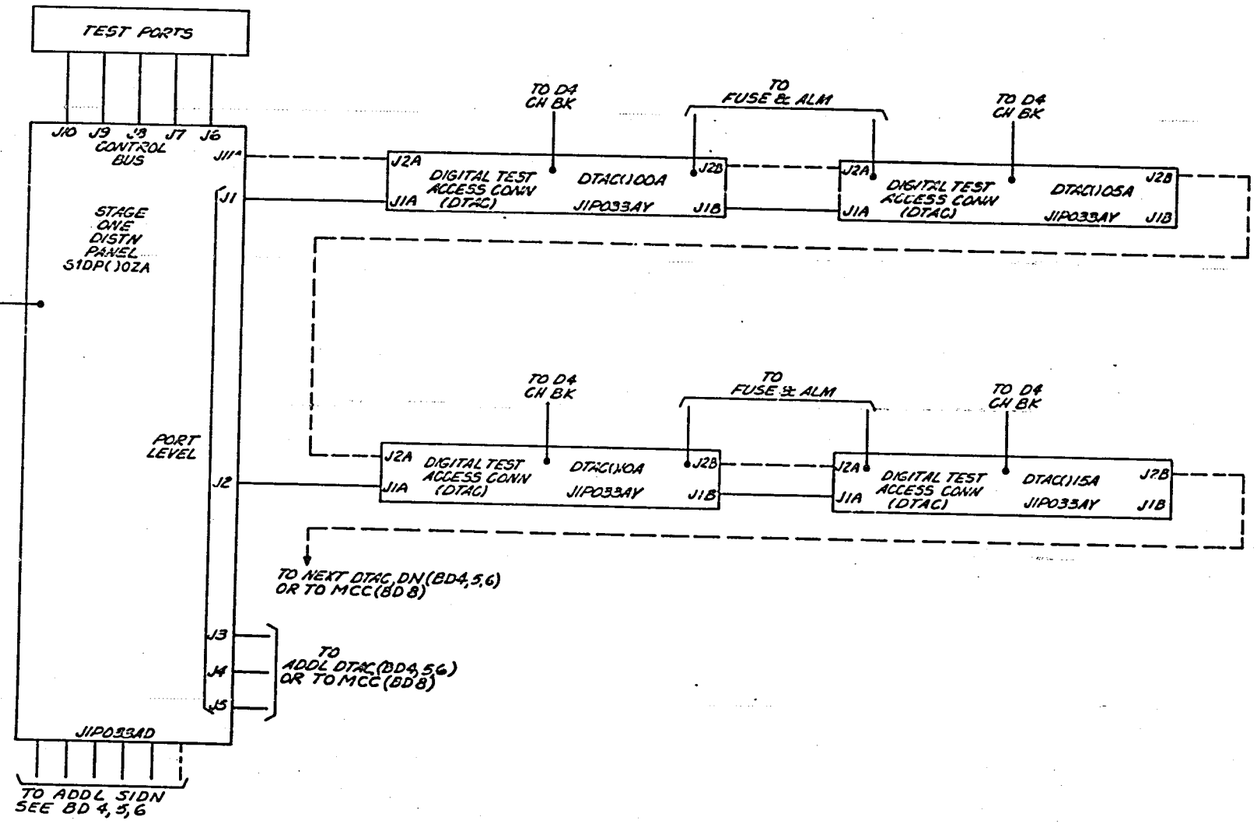
MULTI-PORT SYSTEM INTERCONNECTOR FOR TYPE 4 MC & MCC



LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT	DWG SIZE 6S	ISSUE 14B
BELL LABORATORIES	SD-1P106-01	-H7

BD 9

SYSTEM INTERCONNECTION FOR DIGITAL TEST ACCESS CONNECTORS (DTAC)



LOCAL TEST PORTS AND DISTRIBUTION CIRCUIT	DWG SIZE 6S	ISSUE 14B
BELL LABORATORIES	SD-1P106-01	-H8