

SHEET INDEX

CONTENTS	SHEET NO.	ISSUE NO.																																																		SHEET NO.
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SUPPORTING INFORMATION

CATEGORY	NO.
756A PBX CABLING DIAGRAM	SD-65745-01
756A FEATURE CABLE	SD-66920-01
EQUIPMENT DRAWINGS	J58829B J58829C J58829D J58829E J58829F J58829G J58829H J58829L J58829R
EQUIP DESIGN REQ	J58829
CIRCUIT TESTS BSP	551-153-501

DWG ISSUE	CD ISSUE	DATE ISSUED	DRG	APP
1	1	5-13-62	RUB	REG
2D	APP ID	7-30-62	NM	SZ
3D	APP ID	3-29-63	HWA	PH
4D	2D	6-29-64	RVC	RAV
5D	2D	9-30-65	WGN	RRS
6D	2D	5-17-66	WGN	RRS
7B	2D	10-6-66	WGN	RRS
8D	2D	5-16-67	FED	JJM
9D	2D	11-1-67	WGN	RRS
10D	2D	11-1-67	WGN	RRS
11D	3D	11-1-67	WGN	RRS
12B	3D	7-30-71	RFN	SHA
13D	3D	7-30-71	RFN	SHA
14B	4B	5-16-72	HBN	WVS
15D	4B	10-31-72	HBN	WVS
16D	4B	2-24-74	HBN	WVS

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.

REPLACES SD-65743-01

SD-66796-01 3J07

PBX SYSTEMS
NO. 756A
ALARM, TRANSFER & TEST CIRCUIT

(ALM, TR & TST)

BELL TELEPHONE LABORATORIES
INCORPORATED

ISSUE 16D

MFR DISC.

SD-66796-01-A1
12 SHEETS

6S

SD-66796-01-A1

APPARATUS INDEX

DESIG	LOCATION	
	FS	APP FIG. EQUIP.
RELAYS		
A1	2A1	3
A2	2B1	3
A3	201	3
A4	200	3
CL	2B3	3
T	1B7	1
ATI	4G1	10
ATA	1B7	2
ATA1	4H1	10
BCO	106	4
EXT	1A7	4
FA	1C2	4
HO	2C3	3
NS	1C6	2
R	1E3	4
RB	102	4
S	1E3	4
TR	1B4	4

DESIG	LOCATION	
	FS	APP FIG. EQUIP.
LAMPS		
FA	1B5	4
PA	1C5	4
TR	1D4	4
EXT	1D4	4

DESIG	FS	LOCATION	
		APP FIG.	EQUIP.
RESISTORS			
A3	2D0	3	1AB
A4	2D0	3	1AB
C	1E6	4	
FA	1D2	4	
H	2B0	3	1AB
L	2B0	3	1AB
R	1H1	4	
RI	1E3	4	
RB	2G2	6	6M
S	2C3	3	1AB

CONNECTING BLOCKS		
48V-GRD	201	6
48V-HRB-GRD	2G2	9
T-R	2F1	7

DIDDIES		
A	1B4	4
B	1C5	4

FUSES		
[+48V]	1D1	4
[+48V]	1E3	4
[-96V]	1H2	4

KEYS		
AR	2B2	3
	2C1	
ST0	3A8	5
ST1	3B8	5
ST2	3C8	5
ST40	4B8	11
ST41	4B8	11
ST42	4C8	11

VARIABLES		
S	1E2	4

LEAD INDEX

DESIG	FS LOC	CAD. LOC
556A PBX CORD, TEL., DIAL, BAT., BUZZER & RING. CKT		
TRL	1E7	

DESIG	FS LOC	CAD. LOC
608A OR 608D SWBD AUX SIG, FA, BCO & MISC CKT		
A	1A9	
TRL	1E7	

DESIG	FS LOC	CAD. LOC
2 WY TRUNK CKT TO CENTRAL OFFICE		
CNO-9	1F7	
NCO-9	1F6	
NCAO-9	1G6	
NSE	1B9	
NSO	1C9	

DESIG	FS LOC	CAD. LOC
ALARM RCVG CKT AT CENTRAL OFFICE		
WCR	1H0	
WCT	1H0	

DESIG	FS LOC	CAD. LOC
AUX RELAY CKT		
+48V	1A3	
GRD	1A3	

DESIG	FS LOC	CAD. LOC
CDLS POSITION CKT		
NS	1C7	
TRL	1D7	

DESIG	FS LOC	CAD. LOC
CDLS POSITION CKT 1ST ATTENDANT CONSOLE		
B20	1G3	
B30	1G3	
B40	1G3	
B50	1G3	
B60	1G3	
B70	1G3	
B80	1G3	

DESIG	FS LOC	CAD. LOC
CDLS POSITION CKT 2ND ATTENDANT CONSOLE		
B20	1G2	
B30	1G2	
B40	1G2	
B50	1G2	
B60	1G2	
B70	1G2	
B80	1G2	

DESIG	FS LOC	CAD. LOC
CENTRAL OFFICE		
R	3A4	
T	3A4	

DESIG	FS LOC	CAD. LOC
CENTRAL OFFICE TRK CKT		
IT90	3E8	
IT91	3F8	
IT92	3E8	
IT95	4E8	
IT96	4F8	
IT97	4G8	
ITC90	3E8	
ITC91	3E8	
ITC92	3F8	
ITC95	4E8	
ITC96	4E8	
ITC97	4F8	
R	3E6	
T	3F6	

DESIG	FS LOC	CAD. LOC
DIAL PULSE REGISTER		
PL	1F5	
PLB	1F6	
RT	2D2	
RT1	2D3	

DESIG	FS LOC	CAD. LOC
LINE LINK & MARKER CKT		
+48V	1A3	
AT	2A3	
CA	2G6	
JA	2E6	
KA	2C6	
LA	2B6	
LAI	2H3	
MT	2C3	
UA	2A6	
R	2F1	
R1	3A1-3C1	
RA	4A1-4C1	
S	2D6	
S1	3D1-3F1	
	4D1-4F1	
	3D1-3F1	
	4D1-4F1	
T	2F1	
T1	3A1-3C1	
TA	4A1-4C1	
TT	2C6	
UA	2E6	

DESIG	FS LOC	CAD. LOC
MAKE BUSY & BUSY DISPLAY CKT		
-96V	1H3	
GRD	1H3	

DESIG	FS LOC	CAD. LOC
PBX CKT		
-48V	1A1	
GRQ	1A2	

DESIG	FS LOC	CAD. LOC
POWER SUPPLY CKT (J862B1A POWER PLANT)		
-48V "A"	1C0	
-48V "B"	1C0	
GRD	1C0	
PG	1C0	

DESIG	FS LOC	CAD. LOC
POWER SUPPLY CKT (J86464K POWER PLANT)		
10V AC	1G0	
10V AC ALM	1G0	
+48V	1G0	

DESIG	FS LOC	CAD. LOC
POWER SUPPLY CKT (J86464L POWER PLANT)		
10V AC	1E0	
10V AC ALM	1E0	
+48V	1E0	
-48V	1E0	
GRD	1E0	
RB ALM	1E0	

DESIG	FS LOC	CAD. LOC
STATION NO. 30		
R	3B7	
SG0	3B7	
T	3B7	

DESIG	FS LOC	CAD. LOC
STATION NO. 31		
R	3B7	
SG1	3B7	
T	3B7	

DESIG	FS LOC	CAD. LOC
STATION NO. 32		
R	3C7	
SG2	3C7	
T	3C7	

DESIG	FS LOC	CAD. LOC
STATION NO. 40		
R	4B7	
SG-	4B7	
T	4B7	

DESIG	FS LOC	CAD. LOC
STATION NO. 41		
R	4B7	
SG-	4B7	
T	4B7	

DESIG	FS LOC	CAD. LOC
STATION NO. 42		
R	4C7	
SG-	4C7	
T	4C7	

DESIG	FS LOC	CAD. LOC
AUXILIARY POSITION CKT		
NCO-9	1G6	
NSA	1G6	
RA	1B9	

DESIG	FS LOC	CAD. LOC
STA MESSAGE REGISTER PULSE AND SURCHARGE CKT		
EXT	1A9	

DESIG	FS LOC	CAD. LOC
TIE TRUNK RING DOWN		
SI	1H4	

DESIG	FS LOC	CAD. LOC
TRUNK FINDER CKT		
EXT	1B9	

OPTION INDEX

APP OR WRG	APP FIG.	IO, 4G1, 4H1
II	APP FIG. II	4A8-4C8
Z	1H1	
Y	1G1, 1H1	
X	1D6	
W	1E6	
V	1E6	
T	1E6	
S	1D1, 1E1, 1F1, 1G1	
R	1D1	
Q	1E1, 1F1, 1G1	
N	1B5	
M	1D4, 1A5, 1A7	
K	1F6	
J	1G6	
H	1G6	
G	1D2, 1E3	
F	1D2, 1E3	
B	1E5, 1A8	
A	1G1, 1H1	
ZA	APP FIG. 4, 1E2	
ZB	APP FIG. 4, 1E2	
ZC	1H2, 1D1, APP FIG. 4	
ZD	1D1, 1E1, 1F1, 1G1	
ZE	2H3	
ZF	APP FIG. 4, 1B3, 1E2	
ZG	3G6, 4G6	
ZH	3E6, 4E6	
ZI	1H4	
ZJ	1B8	
ZK	1C4	
ZL	1B4, 1C5, APP FIG. 4	

DRAWING ISSUE	REV	DATE
1	1	1/1/61
2	1	1/1/61
3	1	1/1/61
4	1	1/1/61
5	1	1/1/61
6	1	1/1/61
7	1	1/1/61
8	1	1/1/61
9	1	1/1/61
10	1	1/1/61
11	1	1/1/61
12	1	1/1/61
13	1	1/1/61
14	1	1/1/61
15	1	1/1/61
16	1	1/1/61
17	1	1/1/61
18	1	1/1/61
19	1	1/1/61
20	1	1/1/61
21	1	1/1/61
22	1	1/1/61
23	1	1/1/61
24	1	1/1/61
25	1	1/1/61
26	1	1/1/61
27	1	1/1/61
28	1	1/1/61
29	1	1/1/61
30	1	1/1/61

ALARM, TRANSFER & TEST CIRCUIT

BELL TELEPHONE LABORATORIES

SD-66796-01-A2

65

SD-66796-01-A2

FS I

ALARM AND TRANSFER RELAYS

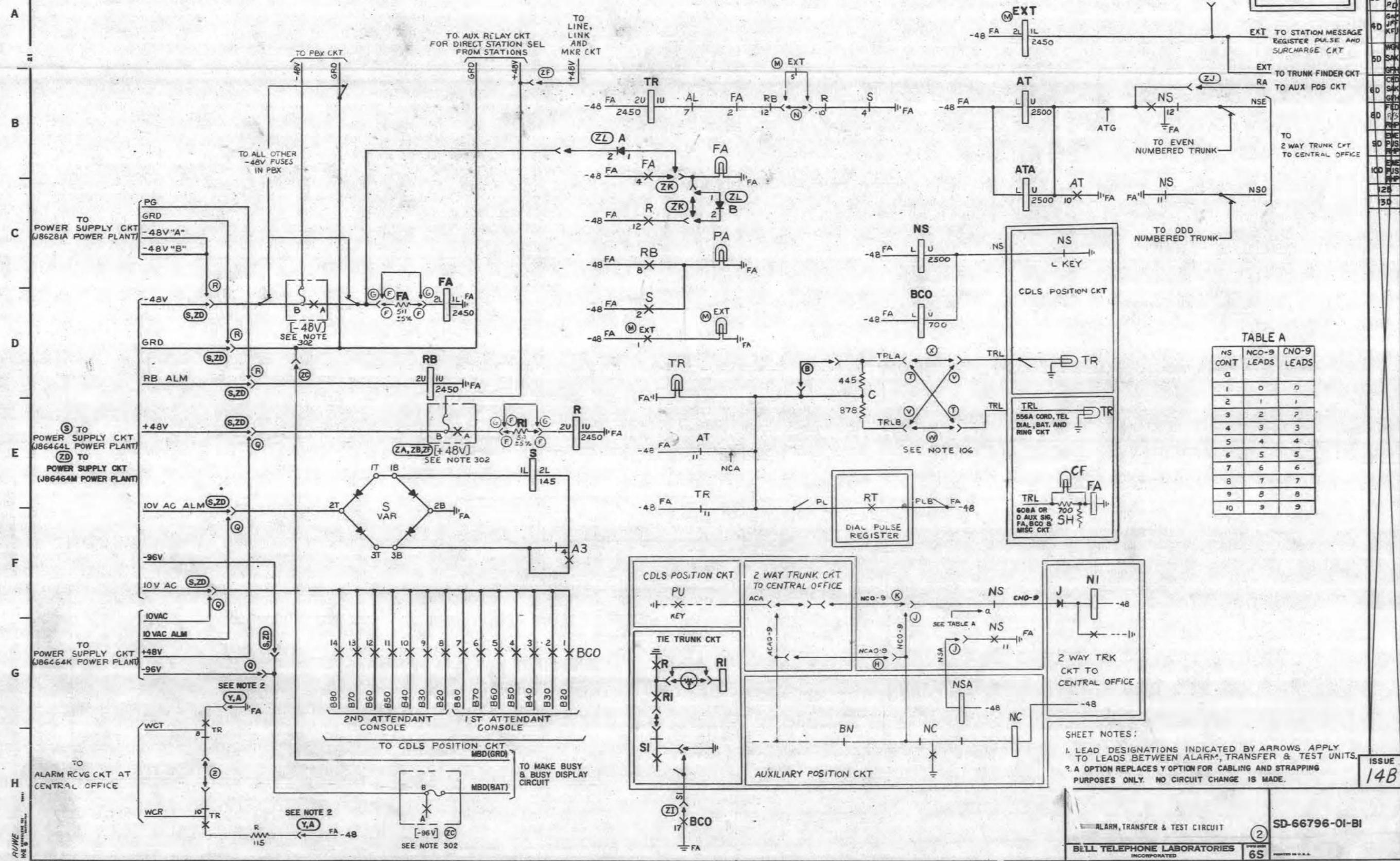


TABLE A

NS CONT	NCO-9 LEADS	CNO-9 LEADS
1	0	0
2	1	1
3	2	2
4	3	3
5	4	4
6	5	5
7	6	6
8	7	7
9	8	8
10	9	9

SHEET NOTES:

1. LEAD DESIGNATIONS INDICATED BY ARROWS APPLY TO LEADS BETWEEN ALARM, TRANSFER & TEST UNITS.
2. A OPTION REPLACES Y OPTION FOR CABLING AND STRAPPING PURPOSES ONLY. NO CIRCUIT CHANGE IS MADE.

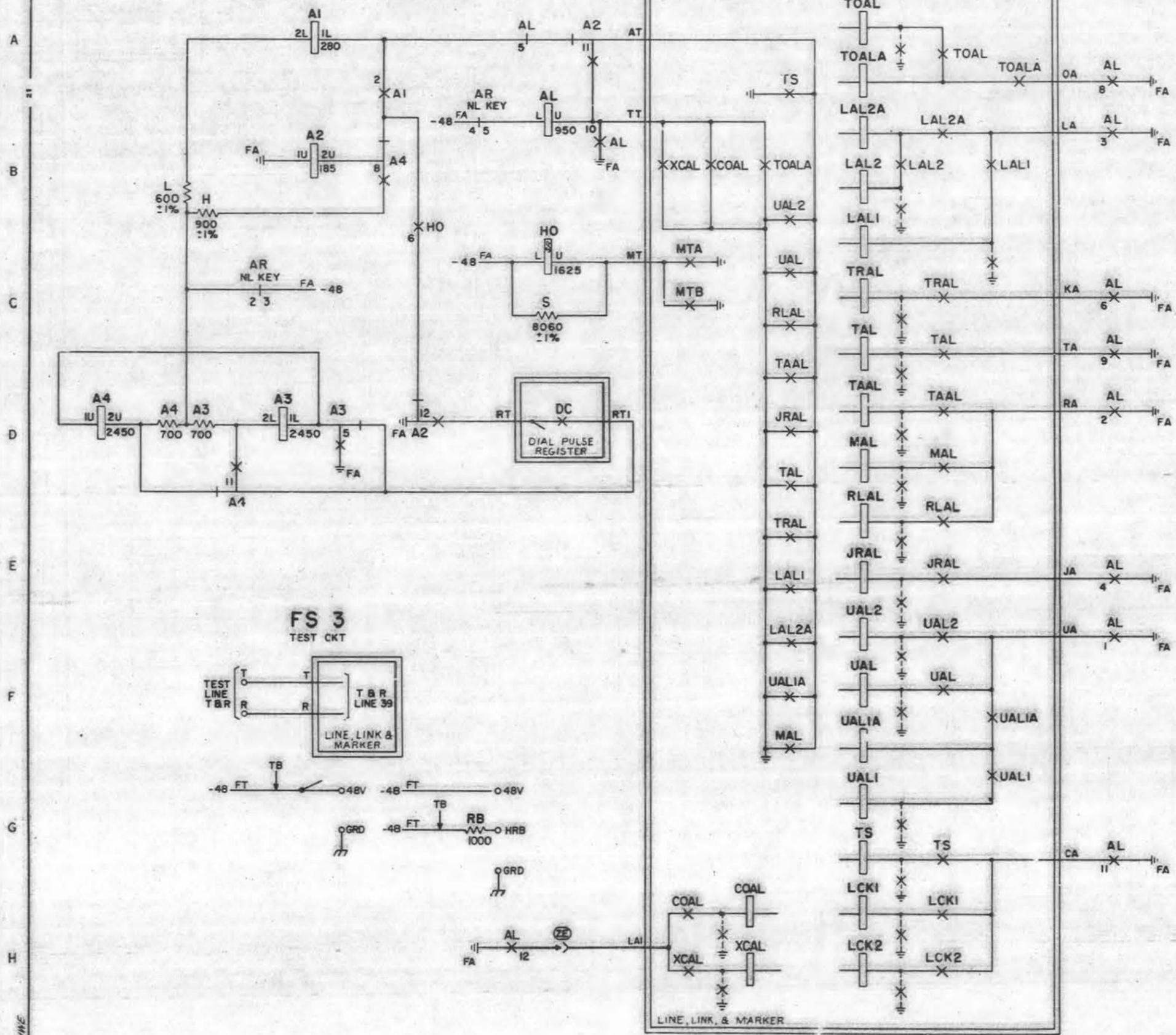
DRAWING ISSUE	
1	CRP
2D	POS
3	W.H.
4	P.S.
5	P.D.
6	G.H.
7	J.P.F.
8	K.F.J.
9	W.G.
10	S.A.K.
11	S.F.H.
12	C.D.
13	S.A.K.
14	G.H.
15	F.D.
16	R.S.
17	E.M.S.
18	F.S.
19	E.M.S.
20	F.S.
21	E.M.S.
22	F.S.
23	E.M.S.
24	F.S.
25	E.M.S.
26	F.S.
27	E.M.S.
28	F.S.
29	E.M.S.
30	F.S.

SD-66796-01-B1

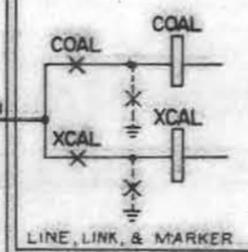
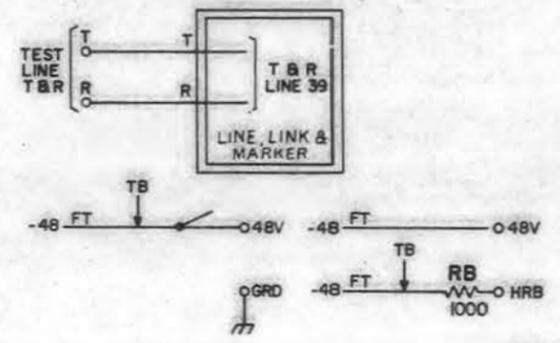
FS 2 MARKER ALARM

SHEET NOTES:
1. LEAD DESIGNATIONS INDICATED BY ARROWS APPLY TO LEADS BETWEEN ALARM, TRANSFER AND TEST UNITS.

DRAWING ISSUE	
1	RAP
2	CRA
3	POP
4	WFL
5	JFT
6	WJ
7	WGM
8	SAC
9	POP



FS 3 TEST CKT



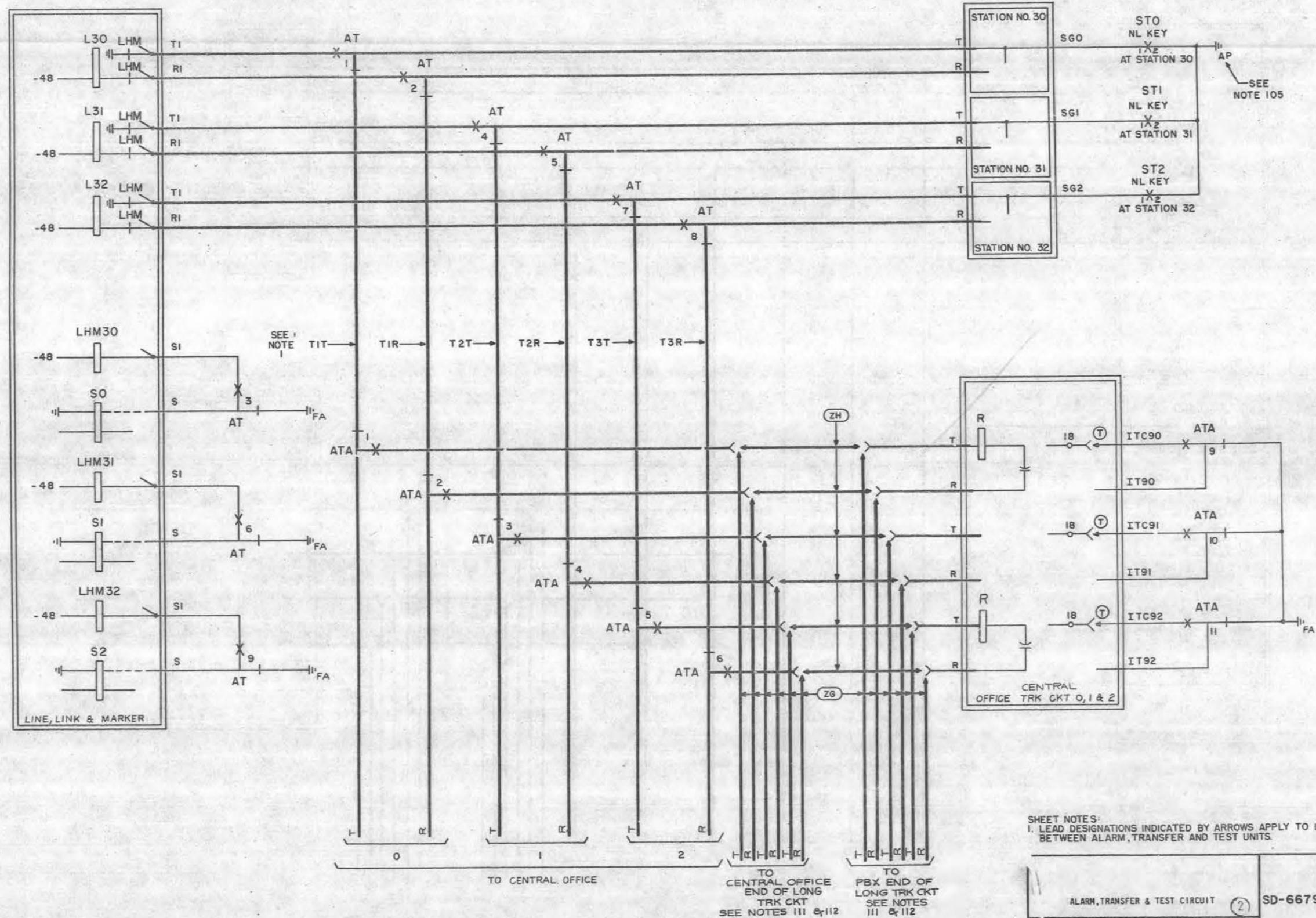
SD-66796-01-B2

RUWE

ALARM, TRANSFER, & TEST CIRCUIT		11
BELL TELEPHONE LABORATORIES		SD-66796-01-B2
INCORPORATED		65

PART OF FS 4
TRANSFER CKT

DRAWING
ISSUE
1
A/B
C/R
1/58
12B



SHEET NOTES:
1. LEAD DESIGNATIONS INDICATED BY ARROWS APPLY TO LEADS BETWEEN ALARM, TRANSFER AND TEST UNITS.

SD-66796-01-B3

ALARM, TRANSFER & TEST CIRCUIT	2	SD-66796-01-B3
BELL TELEPHONE LABORATORIES INCORPORATED	65	PRINTED IN U. S. A.

APP FIG. 1

RELAY						
DESIG	AT					
CODE	AJS					
OPTION						
CONT	LOC	CONT	LOC	CONT	LOC	LOC
ARR		ARR		ARR		
12	EBM					
11	EBM	1E4				
10	EBM	1C7				
9	EBM	3G2				
8	EBM	3C5				
7	EBM	3C4				
6	EBM	3E2				
5	EBM	3B4				
4	EBM	3B4				
3	EBM	3D2				
2	EBM	3B3				
1	EBM	3B3				
COIL	1B7					

APP FIG. 2

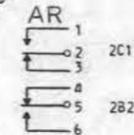
RELAY									
DESIG	ATA					NS			
CODE	AJS					AJS			
OPTION									
CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC
ARR		ARR		ARR		ARR		ARR	
12	EBM	4H1				EBM	1B6		
11	EBM	3F8				EBM	1F7		
10	EBM	3E8				EBM	1F7		
9	EBM	3E8				EBM	1F7		
8	EBM					EBM	1F7		
7	EBM					EBM	1F7		
6	EBM	3G5				EBM	1F7		
5	EBM	3F5				EBM	1F7		
4	EBM	3F4				EBM	1F7		
3	EBM	3E4				EBM	1F7		
2	EBM	3E3				EBM	1F7		
1	EBM	3E3				EBM	1F7		
COIL	1B7					1C6			

IC8
1G7

APP FIG. 3

RELAY																
DESIG	A1	A2	A3	A4	AL					HO						DESIG
CODE	AK3				AF33					AG12						CODE
OPTION																OPTION
CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT
ARR		ARR		ARR		ARR		ARR		ARR		ARR		ARR		ARR
12			BM	2D2		M		M	2M2							12
11			BM	2A3				EBM	2E1	M	2G6					11
10								EBM		M	2B3					10
9								EMB		M	2C6					9
8								EMB	2B2	M	2A6			M		8
7										B	1B4			B		7
6										M	2C6			M	2B2	6
5										B	2A2					5
4								EMB	2D1							4
3								ERM	1F3		M	2E6				3
2	RM	2A2						ERM			M	2B6				2
1	RM							ERM			M	2D6				1
COIL	2A1		2B1		2D1		2D0				M	2F6				COIL

KEY
547B



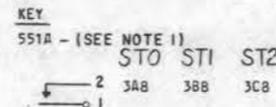
RESISTOR			
DESIG	LOC	CODE	
[1] A3	2D0	19RL	
[1] A4	2D0	19RL	
[1] H	2B0	19TR	
[1] L	2B0	19TR	
S	2C3	107A, 8060	

APP FIG. 4

RELAY																
DESIG	FA	RB	R	S					EXT	TR					DESIG	
CODE	AK24								AK4						CODE	
OPTION									M						OPTION	
CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	
ARR		ARR		ARR		ARR		ARR		ARR		ARR		ARR		
12			BM	1B5	M	1C4									12	
11			BM							EBM	1F4				11	
10					B	1B5				EBM	1H1				10	
9					M					EMB					9	
8					M	1C4	BM			EMB	1H1				8	
7															7	
6															6	
5										EMB	1A5				5	
4	M	1B4					B	1B6		EMB					4	
3										EMB					3	
2	BM	1B5				M	1D4			EMB					2	
1	BM						M	1D4		EMB					1	
COIL	1C2		1D2		1E3		1E3			M	1D4		1A7		184	

DESIG				
CODE	BCO			
OPTION	AJ202			
CONT	LOC	CONT	LOC	LOC
ARR		ARR		
24	M			
23	M			
22	M			
21	M			
20	M			
19	M			
18	M			
17	M	1H4		
16	M			
15	M			
14	M	1G3		
13	M	1G3		
12	M	1G3		
11	M	1G3		
10	M	1G3		
9	M	1G3		
8	M	1G3		
7	M	1G3		
6	M	1G3		
5	M	1G3		
4	M	1G3		
3	M	1G3		
2	M	1G3		
1	M	1G3		
COIL		1D6		

APP FIG. 5



APP FIG. 8

CONNECTING BLOCK		
DESIG	LOC	CODE
48V-GRD	2G1	55E-73B

APP FIG. 6

RESISTOR		
DESIG	LOC	CODE
RB	2G2	188H

APP FIG. 9

CONNECTING BLOCK		
DESIG	LOC	CODE
48V-HRB-GRD	2G2	55E-73A

APP FIG. 7

CONNECTING BLOCK		
DESIG	LOC	CODE
T-R	2F1	55B-73C

SHEET NOTE
1. COLOR SUFFIX TO BE IN ACCORDANCE WITH CUSTOMERS ORDER.

FUSE		
DESIG	LOC	CODE
[101] [-48V]	1D1	70A
[2A] [+48V]	1E3	70E
[2B] [-48V]	1E3	70P
[2F] [+48V]	1E3	70H
[2C] [-96V]	1H2	70E

LAMP		
DESIG	LOC	CODE
FA	1B5	2Y
PA	1C5	2Y
TR	1D4	2Y
(M) EXT	1D5	2Y

RESISTOR		
DESIG	LOC	CODE
C	1E6	19LP
(E) FA	1D2	KS-14603, L2A, 511
R	1H1	59D
(F) RI	1E3	KS-14603, L2A, 511

VARIATOR		
DESIG	LOC	CODE
S	1E2	27J

DIODE		
DESIG	LOC	CODE
(Z) A	1B4	446F
(Z) B	1C5	446F

DRAWING ISSUE
1 RB
2 CR
3 PDB
4D
7B
8D
10D
12B

ISSUE
14B

ALARM, TRANSFER & TEST CIRCUIT (2) SD-66796-01-C1
BELL TELEPHONE LABORATORIES INCORPORATED 65 PRINTED IN U.S.A.

SD-66796-01-C1

CIRCUIT NOTES:

DESIG	FUSE AMP	POTENTIAL	ONE PER
FA	1-1/3	-48	PBX
FT	1-1/3	-48	PBX
FA		GRD	PBX

BATTERY SYMBOL	VOLTAGE RANGE
-48	45-52V

FEATURE OR OPTION	PROVIDE		
	APP FIG.	APP OR WRG	QUANTITY
ALARM AND TRANSFER CKT	1,2,3,4	F,M,ZC	ONE PER PBX
TEST CKT	6,7,9		ONE PER PBX
	8		ONE PER PBX
STATION DIAL TONE START	5 OR 11		ONE PER EMERGENCY STATION LINE
TYPE OF ALM REQD	MARGINAL		Z
	BAT. REV		A
CONNECTED TO	ONE CONSOLE		V
	TWO CONSOLES		X
TROUBLE ALARM LAMP AT	556A SWITCHBOARD		T
	ONE CONSOLE AND 556A SWITCHBOARD		T,V
	TWO CONSOLES AND 556A SWITCHBOARD		X,W
	608A OR 608D CORD SWBD		B,T
	ONE CONSOLE AND 608A OR 608D CORD SWBD		T,V,B
POWER PLANT TYPE PROVIDED	BATTERYLESS		S
	BATTERY RESERVE		ZD
	WITH +48VDC, -96VDC B IOVAC APPLIQUE		Q SET NOTE 109
REMOTE TRUNK ANSWERING	REQUIRED		J
	NOT REQUIRED		H,J
TRANSFER OF STATIONS 40, 41 & 42 TO TRK (5-7) ON POWER FAILURE	10		1 PER PBX

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

CIRCUIT NOTES (CONT):

CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT		
				STD	A&M	MD
4D	M OR N	N		M		N
	H, J OR K	K	102	H, J		K
	F OR G	G		F		G
5D	B	NONE	102, 201	B		
6D	Y OR A	Y	107, 102	A		Y
7B	ZA OR ZB	ZA	108	ZB		ZA
8D	ZC	NONE	102	ZC		
9D	R, Q OR ZD	R, Q	102, 109	ZD	Q	R
11D	ZE	NONE		ZE		
12B	ZB OR ZF	ZB	110	ZF		ZB
	IO OR II	NONE		IO, II		
	ZH OR ZG	ZH	III & 112	ZH, ZG		
13D	ZI OR ZJ	NONE		ZI, ZJ		
14B	ZK OR ZL	ZK		ZL		ZK

105. *AP* GROUND WILL BE THE SAME AS THAT WHICH SUPPLIES THE CORDLESS POSITION CIRCUIT.
106. *T*, *V*, *W* AND *X* OPTIONS ARE APPLIED AT A CROSS CONNECTION BOX.
107. *A* OPTION REPLACES *Y* OPTION FOR CABLING AND STRAPPING PURPOSES ONLY. NO CIRCUIT CHANGE IS MADE.
108. THE +48 VOLT FUSE TYPE 70E OPTION ZA IS CHANGED TO TYPE 70P OPTION ZB IN CONJUNCTION WITH THE ADDITION OF A 13N RESISTANCE LAMP IN THE 756A PBX AUXILIARY RELAY CIRCUIT.
109. OPTION *Q* IS ONLY REQUIRED FOR BATTERY RESERVE PBXS MANUFACTURED PRIOR TO ISSUE 90.
110. THE +48 VOLT FUSE TYPE 70P OPTION ZB IS CHANGED TO TYPE 70H OPTION ZF FOR ADDITIONAL CURRENT DRAIN OF APPROX 600mA TO THE PRESENT +48V SUPPLY.
111. OPTION ZG IS NOT FOR MANUFACTURING PURPOSES.
112. OPTION ZG SHALL BE APPLIED LOCALLY UNDER THE FOLLOWING CONDITIONS:
 (A) LOCATION OF LONG TRUNK UNIT AT LOCAL CENTRAL OFFICE IS IMPRACTICAL.
 (B) PROVISION OF RESERVE POWER IS NOT PROVIDED.
 (C) WHERE THE EMERGENCY STATION WILL FUNCTION WITH THE SUPERVISORY AND TRANSMISSION IMPAIRMENT ADDED BY THE TRANSFER.

EQUIPMENT NOTES:

201. WHEN A 608A OR 608D SWITCHBOARD ISSUED AS AN ATTENDANT POSITION THE INSTALLER SHALL PROVIDE *B* OPTION STRAP AT RESISTOR C.

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.

-48V FUSE DESIG	ASSOC PBX CKT
A-H, J, K, L, L2-7, M, N, P, Q, R*, S, SO, ST, S23, S45, S67, S89, T, TO, T1, TR, UA, UB, X, Y, Z	LINE, LINK & MARKER
RAO, I, RBO, I, RCO, I	DIAL PULSE REGISTER
JTO-5	JUNCTOR
C00-2, C05-7, FC1, FC2	TWO WAY TRUNK TO CENTRAL OFFICE
C03, C04, C08, C09	TWO WAY TRUNK TO CENTRAL OFFICE OR RINGDOWN TIE TRUNK
ATO, AT1, AT2	ATTENDANT TRUNK
BT	BUSY TONE TRUNK
AP1, AP2	CORDLESS POSITION
FA, FT	ALARM TRANSFER & TEST
SB-SG	NO. 556A PBX SWITCHBOARD
DSS	AUX REL CKT FOR DIRECT STATION SELECTION FROM STATIONS
T80-89	MISC CKT AND TRUNKS
AO-9	STATION MESSAGE REGISTER PULSE AND SURCHARGE
CON	STA DIAL TRANSFER CONTROLLER
IR	INWARD RESTRICTION
TTA, TTB	POWER SUPPLY
*48V FUSE DESIG	ASSOC PBX CKT:
DSS	AUX REL CKT FOR DIRECT STATION SELECTION FROM STATIONS; LINE, LINK & MKR
-96V FUSE DESIG	ASSOC PBX CKT.
MBD	MAKE BUSY & BUSY DISPLAY CIRCUIT

* R IS ASSOCIATED WITH 608D CORD SWITCHBOARD (SEE SD-67039-01)

INFORMATION IN BRACKETS [] IS FOR REFERENCE ONLY.

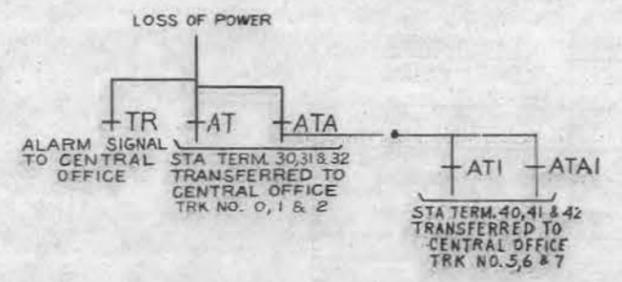
DRAWING ISSUE
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ISSUE 14B

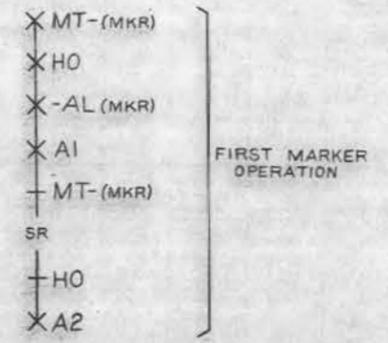
ALARM, TRANSFER & TEST CIRCUIT (2) SD-66796-01-DI
 BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-66796-01-DI

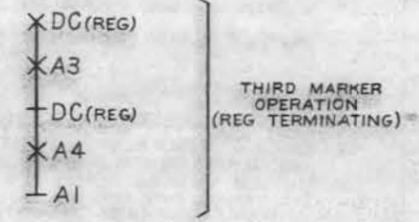
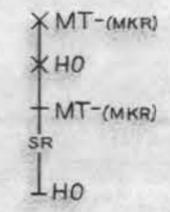
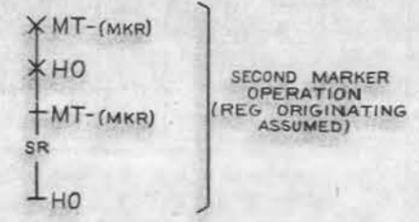
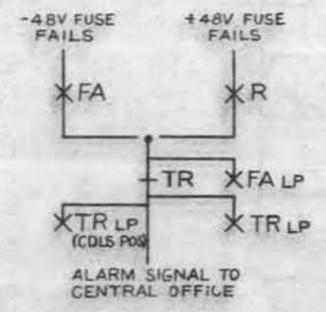
SC 1
SUPPLY POWER FAILURE



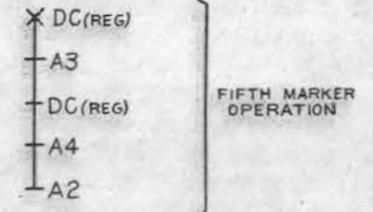
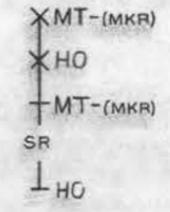
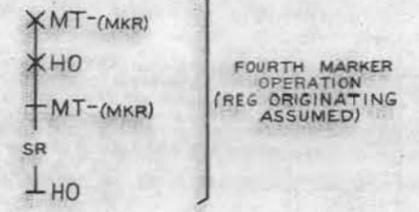
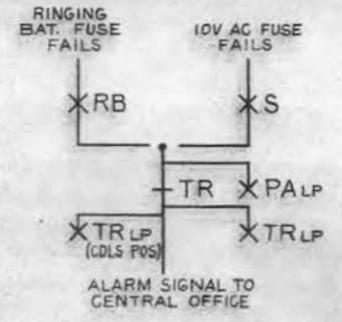
SC 4
ONE MARKER TROUBLE PER ALARM CYCLE



SC 2
LOCAL DISTRIBUTION FUSE FAILURE



SC 3
POWER PLANT FUSE FAILURE



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ALARM, TRANSFER & TEST CIRCUIT SD-66796-01-EI
BELL TELEPHONE LABORATORIES INCORPORATED 65

SD-66796-01-EI

DRAWING	ISSUE
1	RJB
	CRA
	POB
4D	RFJ
	KPJ
	12B

SC 5

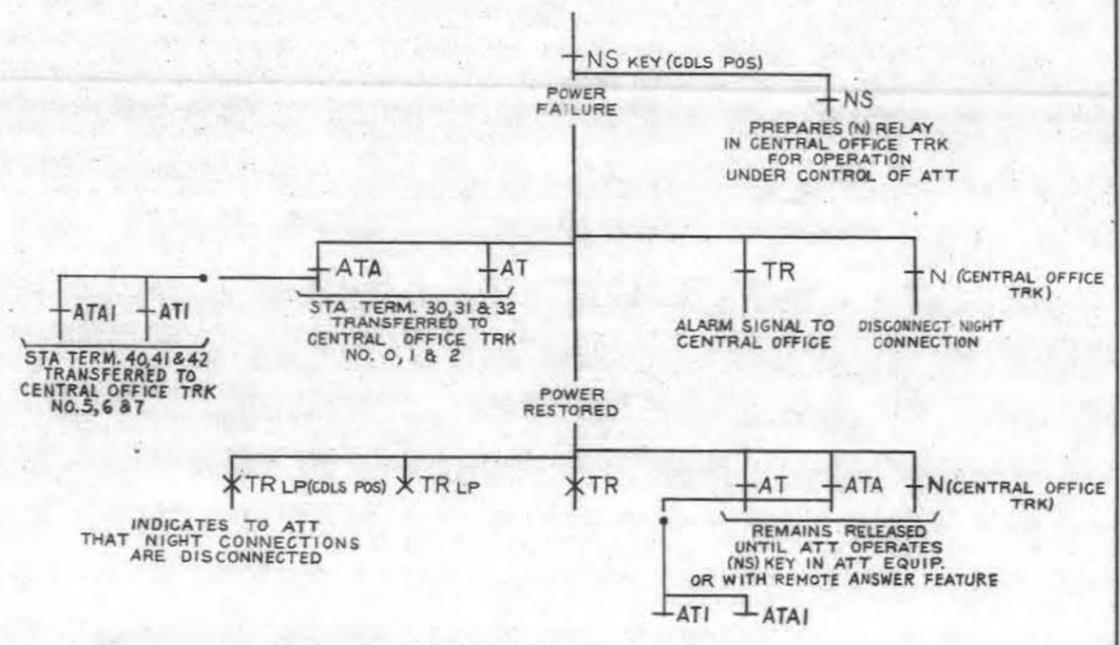
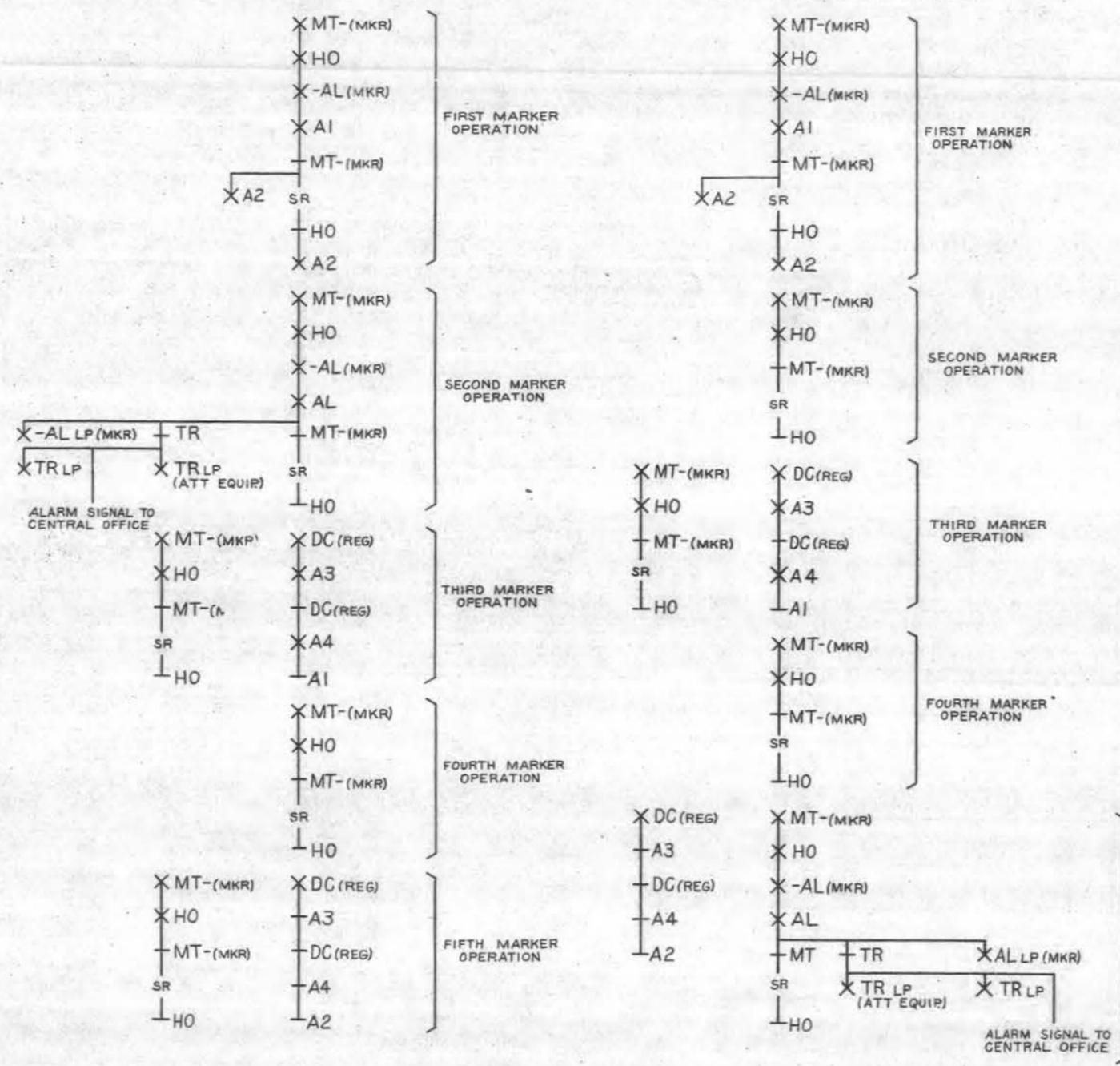
TWO MARKER TROUBLES PER ALARM CYCLE

SC 6

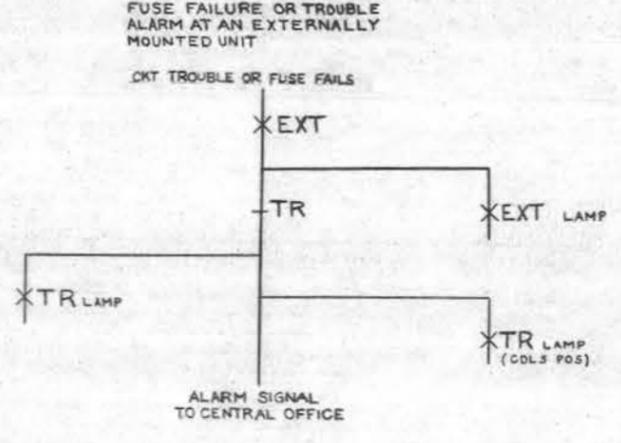
NIGHT SERVICE CONNECTIONS
POWER FAILURE AND RESTORATION

(CASE I - TWO SUCCESSIVE TROUBLES)

(CASE II - TWO SEPARATED TROUBLES)



SC 7



SD-66796-01-E2

ALARM, TRANSFER & TEST CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

SD-66796-01-E2

CIRCUIT REQUIREMENTS																				DRAWING ISSUE	
NO. 756A ALARM, TRANSFER B TEST CKT																				1	
APPARATUS				MECH REQ			CIRCUIT PREPARATION				TEST SET			DIRECT CURRENT FLOW REQ			REMARKS			1	
DESIG	CODE	OPT	FIG.	BSP FIG.	CONT PRESS.	ARM. TRVL	BLOCK OR INSULATE	TEST CLIP DATA		TEST SET PREP	SEE TEST NOTE	TEST WDG	TEST FOR	AFTER SOAK MA.	TEST MA.	READJ MA.				4D	
							CONN BAT.	CONN GRD.				TEST WDG	TEST FOR	AFTER SOAK MA.	TEST MA.	READJ MA.				12B	
RELAYS																				4D	
A1	1/2AK3		3	3			8R(A4)	1L(A1)	GRD			0			27.5	26	MOUNTED WITH (A2)			12B	
A2	1/2AK3		3	3			8(A4)	2U(A2)	BAT.			0			33	31	MOUNTED WITH (A1)			12B	
A3	1/2AK4		3	202			5W(A3) 11B(A4) (A4)NO	1L(A3)	GRD	1		0			11.9	11.3	WINDING ALONE CKT COMB. OF (A3) & (A4)			12B	
A4	1/2AK4		3	202			5B(A3) (A3)NO	1U(A4)	GRD	2		0			11.9	11.3	WINDING ALONE CKT COMB. OF (A3) & (A4)			12B	
AL	AF33		3	16			10M(AL)	U(AL)	GRD			0			13.4	12.8				12B	
AT, ATA	AJ5		1	220			10M(AT) 11B(AT) 12H(NS) 8(AT1)	U REL TST	GRD			0			13.2	12.6	WINDING ALONE CKT COMB. OF (AT) & (ATA)			12B	
AT1, ATA1	AJ8		10	249			8(AT1)	U REL TST	GRD			0			13.9	12.6				12B	
BCD	AJ202		4	500				U(BCD)	GRD			0			42.5	40.5	WINDING ALONE CKT COMB. OF (NS) & (BCD)			12B	
EXT	1/2AK4	M	4	202				1L(EXT)	GRD			0			11.9	11.3	MOUNTED WITH (TR)			12B	
FA	1/2AK24		4	12				2L(FA)	BAT.			0			7.8	7.4	MOUNTED WITH (RB)			12B	
HD	AG12		3	383								0			6.8	6.4	WINDING ALONE			12B	
								U(HD)	GRD			0			8.4	7.9	CKT COMB. OF (HD)			12B	
								U(HQ)	GRD			0			0.5	0.7	REL & (S) RES			12B	
NS	AJ5		2	220				U(NS)	GRD	3		0			13.2	12.6	WINDING ALONE CKT COMB. OF (NS) & (BCD)			12B	

TEST NOTES:
 1. MOUNTED WITH (A4).
 2. MOUNTED WITH (A5).
 3. OPERATE (NS) KEY IN ATTENDANT EQUIPMENT DURING TEST.

PAGE 1

ALARM, TRANSFER & TEST CIRCUIT
 SD-66796-01-FI
 BELL TELEPHONE LABORATORIES
 INCORPORATED

CIRCUIT REQUIREMENTS																				DRAWING ISSUE	
																				1	
APPARATUS				MECH REQ			CIRCUIT PREPARATION				TEST SET			DIRECT CURRENT FLOW REQ			REMARKS			1	
DESIG	CODE	OPT	FIG.	BSP FIG.	CONT PRESS.	ARM. TRVL	BLOCK OR INSULATE	TEST CLIP DATA		TEST SET PREP	SEE TEST NOTE	TEST WDG	TEST FOR	AFTER SOAK MA.	TEST MA.	READJ MA.				4D	
							CONN BAT.	CONN GRD.				TEST WDG	TEST FOR	AFTER SOAK MA.	TEST MA.	READJ MA.				12B	
R	1/2 AK9		4	5				2U(R)		BAT.		0			7.8	7.3	MOUNTED WITH (S)			12B	
RB	1/2 AK24		4	12				2U(RB)		BAT.		0			7.8	7.4	MOUNTED WITH (FA)			12B	
S	1/2 AK9		4	5			4(A3)	2L(S)	1L(S)	B/G		0			25	24	MOUNTED WITH (R)			12B	
TR	1/2 AK4		4	202			5(FA)	1U(TR)		GRD		0			11.9	11.3	MOUNTED WITH (EXT)			12B	

PAGE 2

ALARM, TRANSFER & TEST CIRCUIT
 SD-66796-01-FI
 BELL TELEPHONE LABORATORIES
 INCORPORATED

SD-66796-01-FI

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