

BELL TELEPHONE LABORATORIES, INC.

MANUAL SYSTEMS SWITCHBOARD NO. 12 KEY SHEET

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6	6	8-11-38	W.L.F.	W.E.D.
7	7	6-14-39	W.L.F.	W.E.D.
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AT&TCO
STANDARD

FOR EXPLANATION OF CONVENTIONS SEE
MASTER KEY SHEET SD-90250-01.

SD-15120-01

General Description of Switchboard No. 12

The switchboard No. 12 provides common battery service in small centers generally served heretofore by magneto switchboards or common battery switchboards of corresponding size. It may be used as a purely local board in full tributary offices or as a combined local and toll board in partial tributaries or toll centers.

This board is available in two general arrangements known as the 640-line and 1440-line boards which indicate the ultimate capacities. It is composed of single position, two panel section with a maximum of 15 cord pairs per position. The common battery lines, magneto rural lines, ringdown trunks and toll lines are multiplied on a four panel basis. Lamps are employed for common battery lines, drops or lamps for magneto rural lines, ringdown trunks and toll lines and lamp busy signals if required for intertoll trunks.

Trunk positions are available as an optional standard. Type "F" or "G" key listening straightforward local, tandem completing and call announcer trunks, type "F" toll switching trunks and type "G" call indicator trunks may be used. AC-DC or superimposed manual ringing may be provided.

For the majority of offices the 105C power plant, with busy hour ratings of 3 and 10 amperes will be adequate for the 40-56 volts d-c supply. However, the 106A power plant is available for any office having a busy hour load in excess of 10 amperes. Both of these power plants are automatic in operation and employ regulated tube rectifiers for floating the batteries.

Two arrangements are available for furnishing 24 volt current for PBXs, etc. One employs a 24 volt battery floated from the 48 volt battery, and the second employs counter cells to reduce the 48 volts to 24.

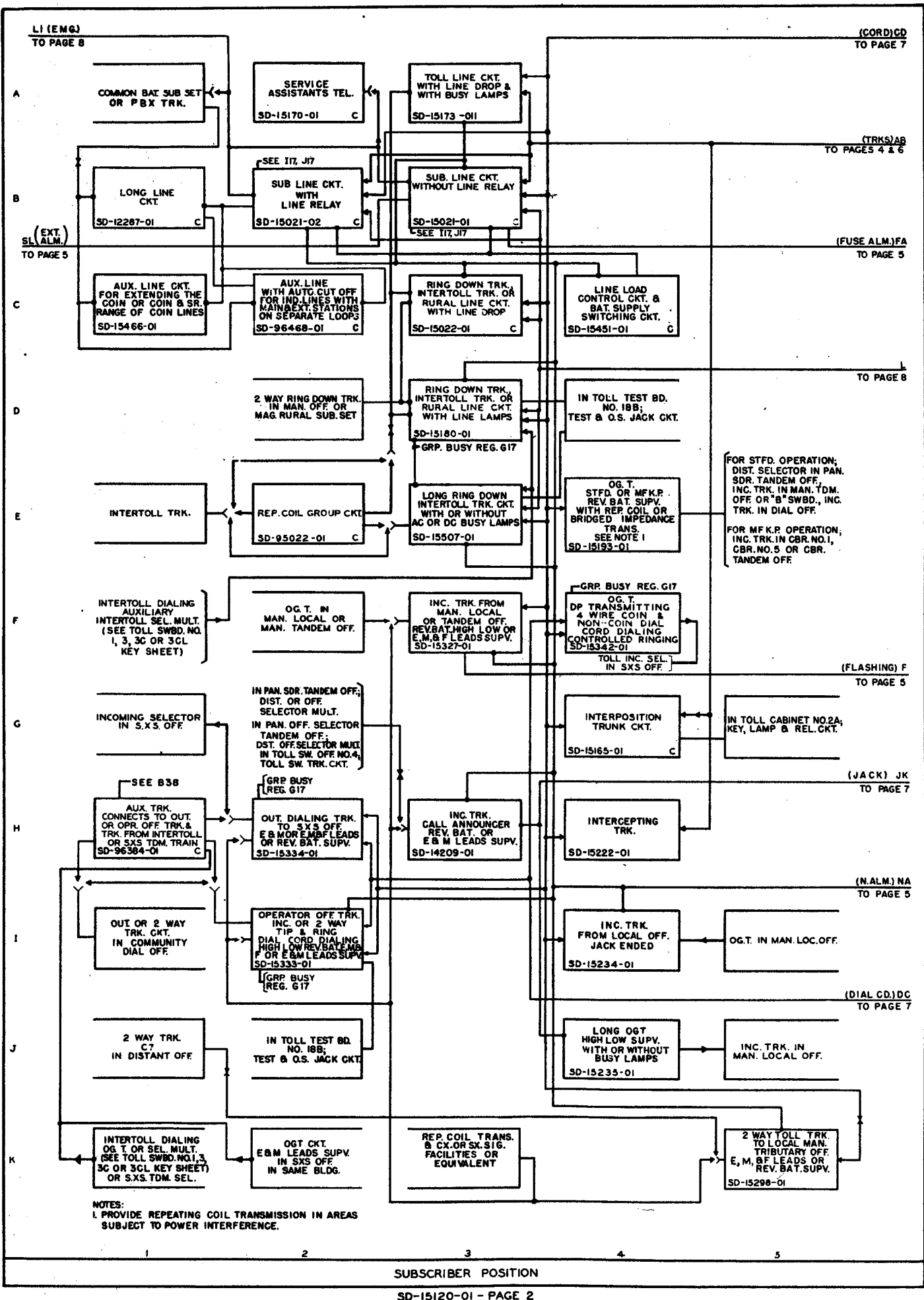
Ringing current will be supplied normally of a static ringing generator of 0.2 ampere capacity. Reserve ringing equipment consisting of 0.2 ampere motor driven generator may be furnished if specified.

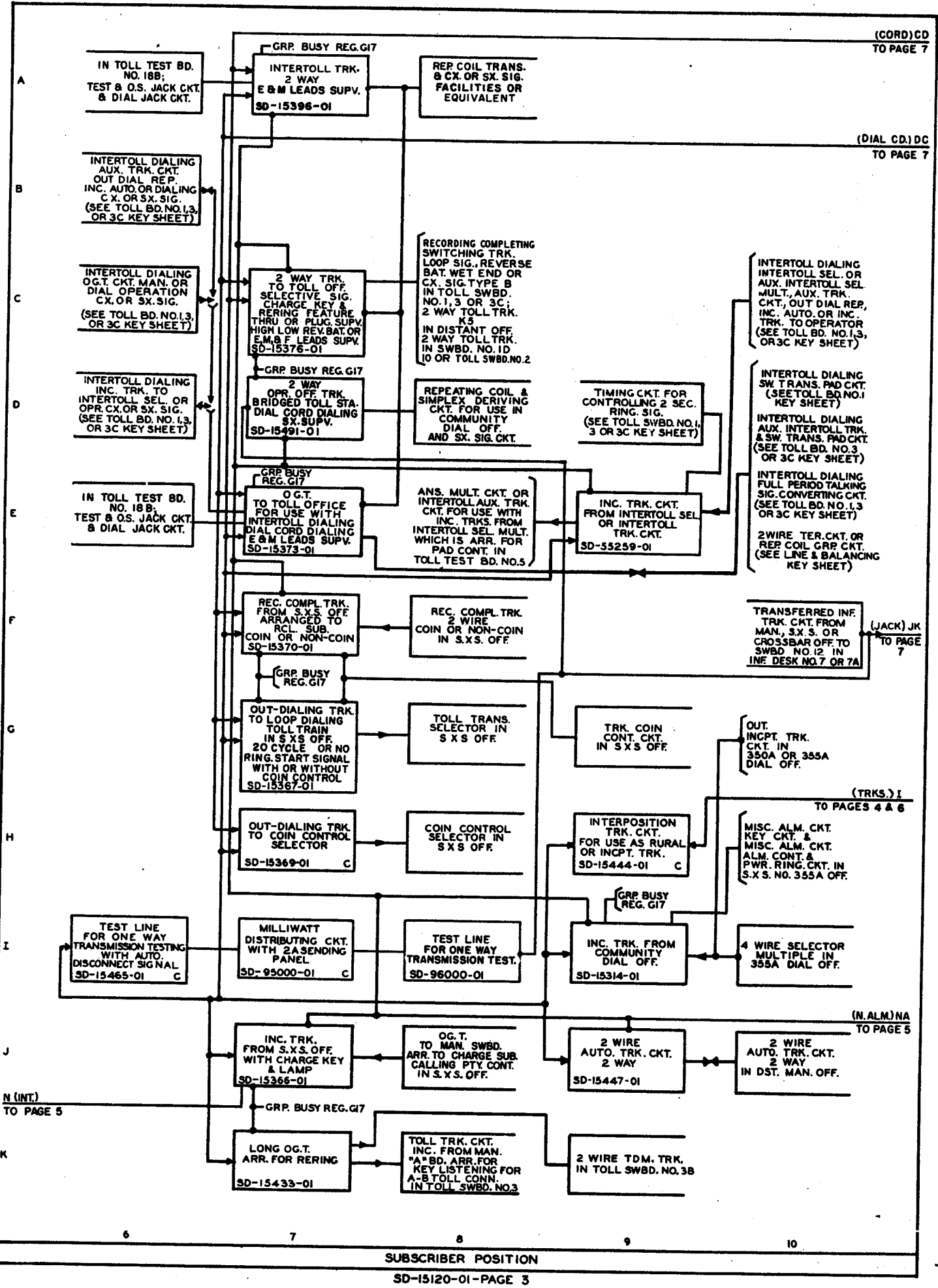
Dry cells are used for coin control battery.

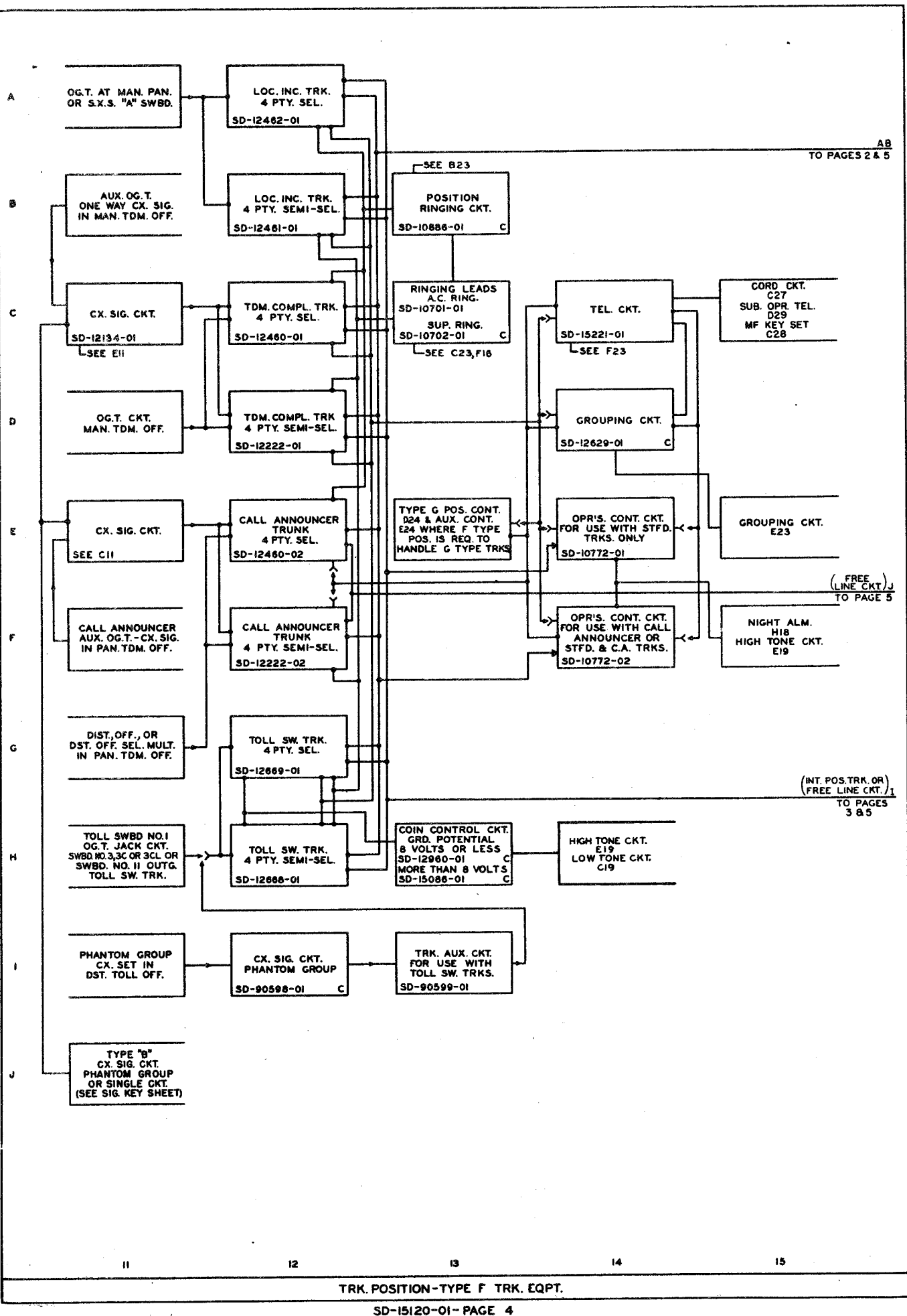
Other facilities which may be provided are:

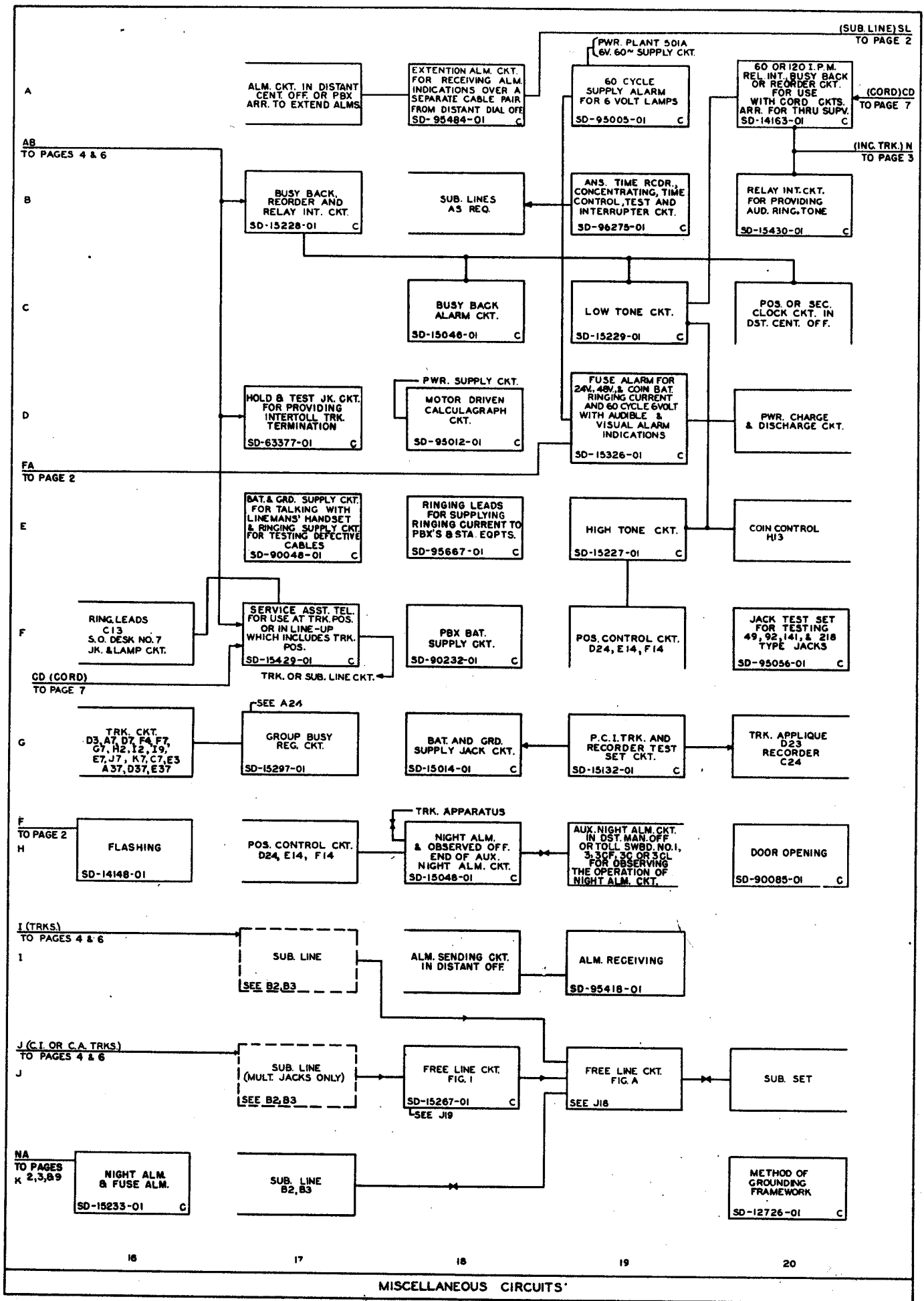
1. Interposition trunks for use in connection with delayed toll or information calls.

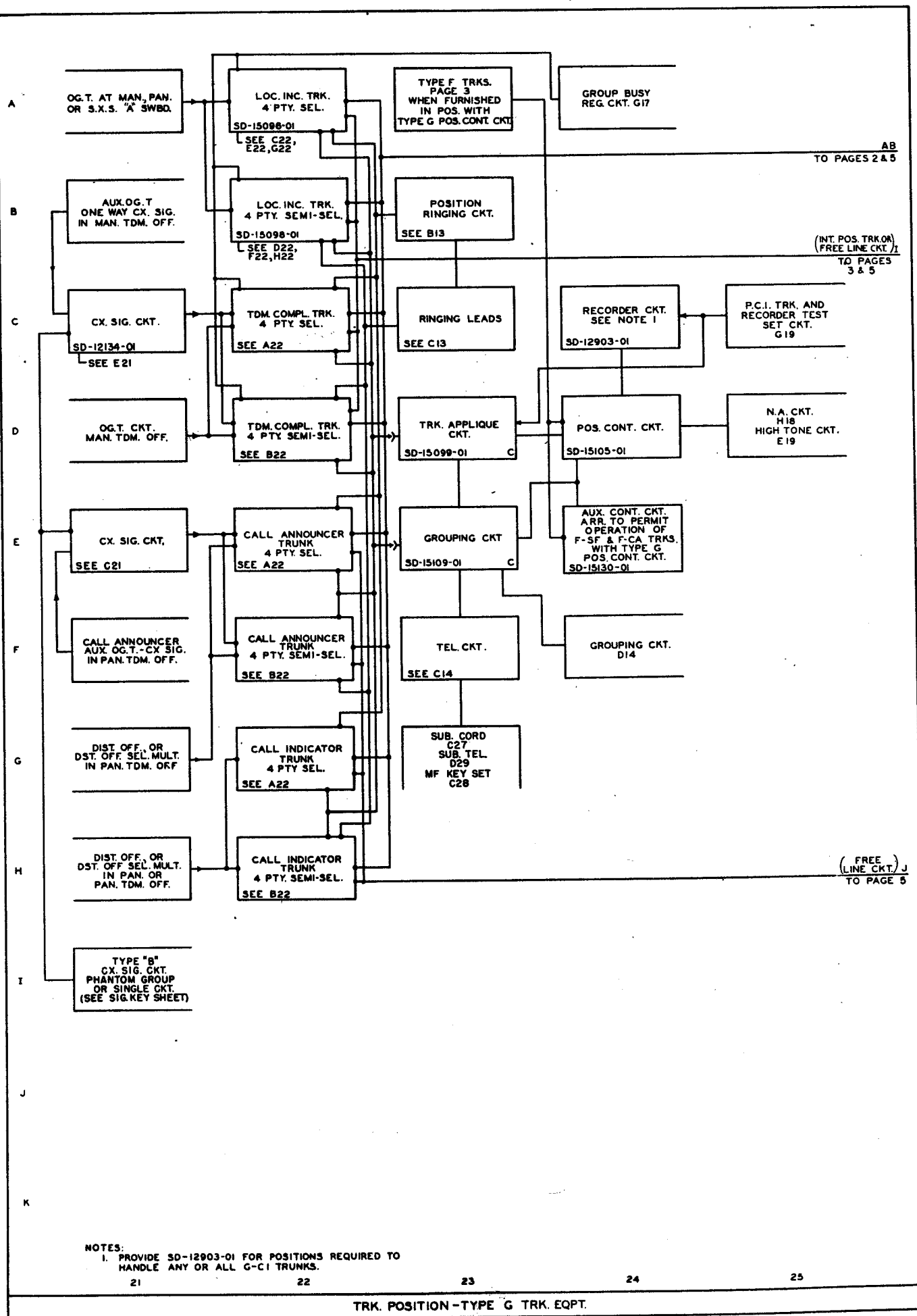
2. Incoming jack ended trunks from manual local offices.
3. Outgoing straightforward trunks to manual local offices.
4. Outgoing trunks to toll offices.
5. Outgoing straightforward trunks to manual tandem or panel tandem offices.
6. Incoming trunks from manual tandem offices.
7. Incoming jack ended call announcer trunks from panel tandem offices.
8. Incoming operator office trunks from community dial offices.
9. Incoming trunks 4 wire from selector levels in 355A dial office.
10. Incoming trunks 2 wire from S. by S. offices.
11. Outgoing dialing trunks to S. by S. offices.
12. Incoming trunks from intertoll selector multiple or intertoll trunk circuit.
13. Outgoing trunks for use with intertoll dialing.
14. Two-way operator office trunks to community dial offices.
15. Intercepting trunks from type "F" or "G" trunk positions.
16. Two-way trunks to toll switchboards or toll positions in manual offices.
17. Two-way toll trunks to local manual tributary offices.
18. Means for answering transferred information trunks from information desk No. 7 or 7A.
19. Test trunks from local test cabinet No. 3 in same building.
20. Waltham clocks or No. 33 calculagraphs for timing toll calls.
21. Dial cord dialing at subscriber positions.
22. Coin line service on prepayment basis.
23. A test circuit for switchboard equipment, and a voltmeter test circuit and a No. 2 local test cabinet are available for testing trunks and subscriber lines.



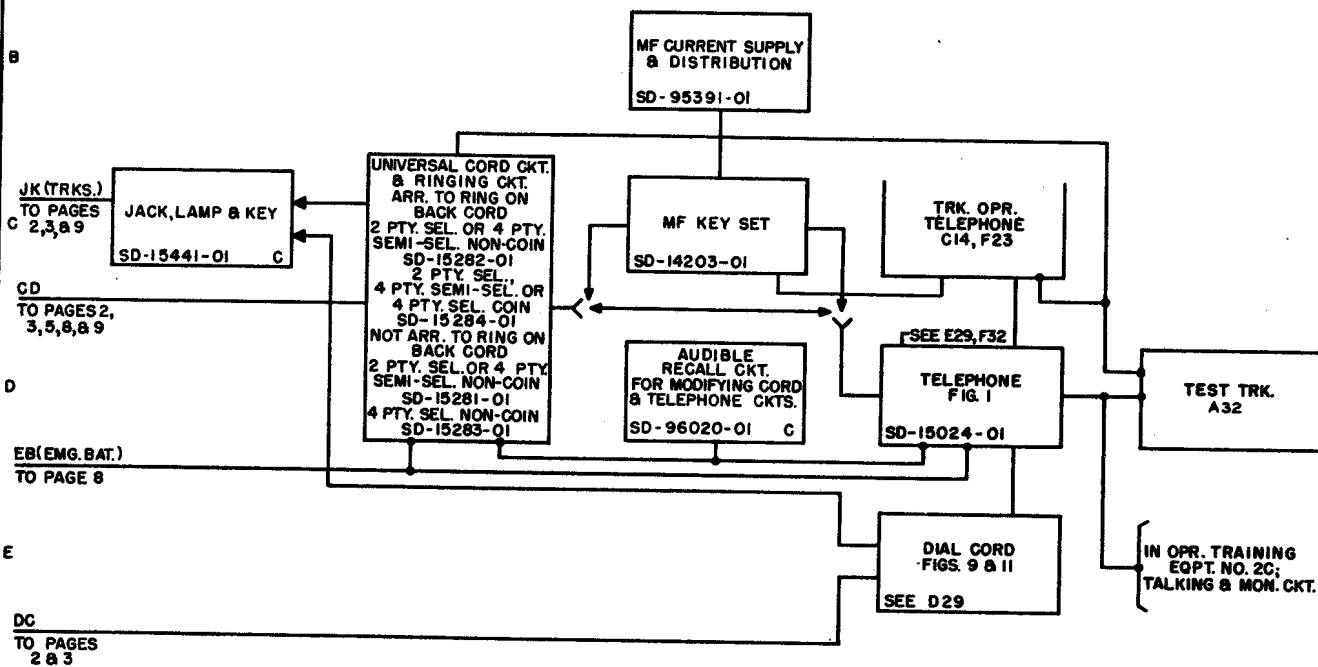








A
B
C
CD
D
E
F
G
H
I
J
K



L (LINE)
TO PAGE 2

A

B

C

D

E

F

G

H

I

J

K

TEST TRK.
SD-15343-01 C

IN LOC. TEST CAB. NO.3
NOT IN SAME BLDG.;
TEST TRK. CKT.
INC. & OUT.

CORD
C27
TELEPHONE
D29

TEST TRK.
SD-15438-01 C

IN LOC. TEST CAB. NO.3
IN SAME BLDG.;
TEST TRK. CKT. &
TEL. & TEST CKT.

(CORD) CD
TO PAGE 7

TEST CKT.
FOR SWBD. EQPT.
SD-15174-01 C

VOLTMETER
TEST CKT.
SD-15118-01 C

SEE D29

EMERGENCY
BATTERY
FIG. 5 OR 7
SD-15024-01

EB
TO PAGE 7

LINE JACKS FOR
SUB. LINE OR TRK.

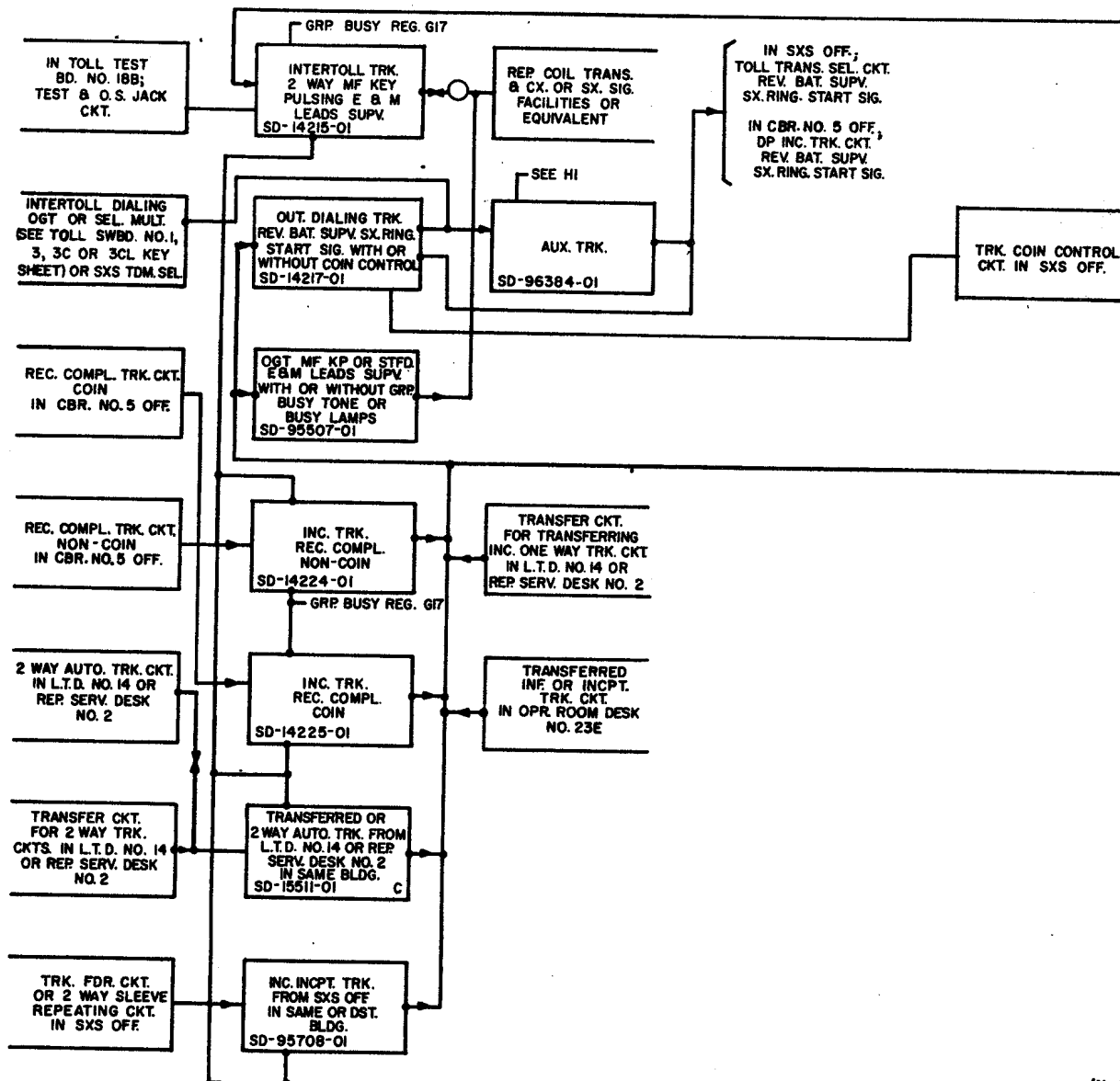
TEST SET CKT.
LOC. TEST CAB. NO. 2
FOR TESTING SUB.
LINES & TRKS.
SD-96002-01 C

(LINE) LI
TO PAGE 2

AUX. LINE CKT.
FOR PUBLIC EMG.
REPORTING
SD-95661-01 C

302AA SUB. SET
& KS-7340
AUX. REL. SET

A
B
C
D
E
F
G
H
I
J
K



**CURRENT DRAIN
AMPERE HOURS PER BUSY HOUR**

CIRCUIT DRAWINGS		SEE NOTE NO.	DRAINS LIST 1 (SEE NOTE 1)				DRAINS LIST 2													
			48V.		24V.		48V.		24V.											
			BAT.	GRD.	BAT.	GRD.	BAT.	GRD.	BAT.	GRD.										
CONTROL																				
TYPE "F" OPR., FOR STFD. TRKS. ONLY	SD-10772-01				.020	.018				.015	.013									
TYPE "F" OPR., FOR C.A. OR STFD. & C.A. TRKS.	SD-10772-02				.028	.028				.021	.021									
POSITION	SD-15105-01				.400	.350				.300	.264									
AUXILIARY	SD-15130-01				.130	.140				.097	.104									
CORD & RINGING																				
NON-COIN	SD-15281-01		.105	.105			.125	.125												
NON-COIN	SD-15282-01		.105	.105			.125	.125												
NON-COIN	SD-15283-01		.105	.105			.125	.125												
COIN	SD-15284-01		.105	.105			.125	.125												
KEY SET, MF	SD-14203-01	3 4,5	P.016 F.066	F.050	F.116	F.100	P.016 F.037	F.028	F.064	F.056										
LINE																				
TOLL	SD-15173-01		.050	.050			.063	.063												
AUXILIARY COIN	SD-15466-01		.110	.110			.089	.089												
RECORDER, TYPE "G" TRK.	SD-12903-01				.430	.430			.637	.637										
REGISTER, GROUP BUSY	SD-15297-01		.024	.024			.013	.013												
SIGNALING, CX.																				
48V.	SD-12134-01		.030	.030	.017	.017	.075	.075	.042	.042										
24V.	SD-12134-01		.002	.002	.035	.035	.005	.005	.087	.087										
SUPPLY, MF CURRENT	SD-95391-01	2,3,4	P.033 F.850	F.850	F.1275	F.1275	P.033 F.470	F.470	F.710	F.710										
TELEPHONE																				
SUB. OPR.	SD-15024-01		.125	.125			.150	.150												
TRK. OPR.	SD-15221-01		.085	.085			.047	.047												
TRK., INCOMING																				
TYPE "F", 4 PTY. SEMI-SEL., TDM. COMPL.																				
CX. SIG.	SD-12222-01				.065	.045			.121	.084										
24V. LOOP SIG., 48V. TRANS.	SD-12222-01		.037	.037	.070	.044	.069	.069	.130	.082										
TYPE "F", 4 PTY. SEMI-SEL., C.A.																				
CX. SIG.	SD-12222-02		.014	.014	.095	.071	.026	.026	.177	.132										
48V. LOOP SIG., 48V. TRANS.	SD-12222-02		.059	.059	.102	.078	.110	.110	.190	.145										
48V. LOOP SIG., 24V. TRANS.	SD-12222-02		.022	.022	.131	.125	.041	.041	.244	.232										
TYPE "F", 4 PTY. SEL., TDM. COMPL.																				
CX. SIG.	SD-12460-01				.075	.050			.140	.093										
48V. LOOP SIG.	SD-12460-01		.003	.003	.100	.080	.006	.006	.186	.149										
24V. LOOP SIG.	SD-12460-01				.105	.085			.195	.158										
TYPE "F", 4 PTY. SEL., C.A.																				
CX. SIG.	SD-12460-02		.014	.014	.076	.056	.026	.026	.141	.104										
48V. LOOP SIG., 48V. TRANS.	SD-12460-02		.058	.058	.082	.062	.108	.108	.153	.115										
48V. LOOP SIG., 24V. TRANS.	SD-12460-02		.025	.025	.105	.085	.046	.046	.195	.158										
TYPE "F", 4 PTY. SEMI-SEL., LOC.	SD-12461-01				.117	.090			.173	.133										
TYPE "F", 4 PTY. SEL., LOC.	SD-12462-01				.129	.096			.160	.117										

NOTES:

- GROUND DRAINS IN LIST I ARE FOR USE WHERE ADDITIONS ARE MADE TO CENTRALIZED FUSE PANELS.
- PER OSCILLATOR GROUP CIRCUIT.
- "P" DENOTES 130V. PLATE DRAIN.
- "F" DENOTES 24V. OR 48V. FILAMENT BAT. & GRD. DRAINS AS SPECIFIED.
- FILAMENT GRD. IS FROM THE TEL. CIRCUIT.

CURRENT DRAIN
AMPERE HOURS PER BUSY HOUR

CIRCUIT DRAWINGS		SEE NOTE NO.	DRAINS LIST 1 (SEE NOTE 1)				DRAINS LIST 2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CIRCUIT TITLE	CIRCUIT NO.		48V.		24V.		48V.		24V.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
			BAT.	GRD.	BAT.	GRD.	BAT.	GRD.	BAT.	GRD.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
TRUNK, INCOMING (CONTINUED)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				

NOTES:

1. GROUND DRAINS IN LIST 1 ARE FOR USE WHERE ADDITIONS ARE MADE TO CENTRALIZED FUSE PANELS.
2. ADD THE FOLLOWING BAT & GRD. DRAINS PER ANS. LAMP TO THE DRAINS OF THE CIRCUIT ON WHICH THE LAMPS ARE FUSED OR GROUNDED: FOR LAMPS C2, K1, 2Y, OR 2U, LIST 1, .002, LIST 2, .004; FOR LAMP 2K, LIST 1, .0005, LIST 2, .001; FOR LAMP 2E, LIST 1, .005, LIST 2, .010.

**CURRENT DRAIN
AMPERE HOURS PER BUSY HOUR**

CIRCUIT DRAWINGS		SEE NOTE NO.	DRAINS LIST 1 (SEE NOTE 1)				DRAINS LIST 2													
			48 V.		24 V.		48 V.		24 V.											
			BAT.	GRD.	BAT.	GRD.	BAT.	GRD.	BAT.	GRD.										
TRUNK, OUTGOING																				
STFD. OR MF. KP.	WITHOUT MF. KP. PAD	SD-15193-01	.013	.013			.026	.026												
REV. BAT. SUPV.	WITH MF. KP. PAD	SD-15193-01	.032	.032			.064	.064												
LONG		SD-15235-01	.021	.021			.053	.053												
DIALING, TO SXS OFF, WITH BUSY LAMPS																				
WITH AUX. TRK.																				
E, M, & F LEADS SUPV.		SD-15334-01	2, 3, 4	K.187	K.146		L.209	L.163												
REV. BAT. SUPV.		SD-15334-01	2	K.125	K.088		L.140	L.098												
WITHOUT AUX. TRK.																				
E, M, & F LEADS SUPV.		SD-15334-01	2, 3, 4	C.127	C.130		L.182	L.185												
REV. BAT. SUPV.		SD-15334-01	2	C.076	C.076		L.109	L.109												
DIALING, TO SXS OFF, WITHOUT BUSY LAMPS																				
WITH AUX. TRK.																				
E, M, & F LEADS SUPV.		SD-15334-01	3, 4	.142	.111		.157	.123												
REV. BAT. SUPV.		SD-15334-01		.090	.053		.100	.058												
WITHOUT AUX. TRK.																				
E, M, & F LEADS SUPV.		SD-15334-01	3, 4	.099	.101		.141	.145												
REV. BAT. SUPV.		SD-15334-01		.048	.048		.069	.069												
DIALING, 4 WIRE, TO SXS OFF																				
WITH BUSY LAMPS		SD-15342-01	2	E.081	E.081		L.096	L.096												
WITHOUT BUSY LAMPS		SD-15342-01		.048	.048		.066	.056												
TO TOLL TRANS. SEL. IN SXS OFF																				
TO TOLL OFF, E & M LEADS SUPV.																				
WITH CONN. TO INTERTOLL DIALING TRK.																				
WITH BUSY LAMPS		SD-15373-01	2	L.278	L.263		L.278	L.263												
WITHOUT BUSY LAMPS		SD-15373-01		.259	.244		.259	.244												
WITHOUT CONN. TO INTERTOLL DIALING TRK.																				
WITH BUSY LAMPS		SD-15373-01	2	H.243	H.234		L.303	L.292												
WITHOUT BUSY LAMPS		SD-15373-01		.227	.218		.284	.273												
DIALING, REV. BAT. SUPV., WITH BUSY LAMPS																				
WITH AUX. TRK.		SD-14217-01	2	K.120	K.049		L.222	L.100												
WITHOUT AUX. TRK.		SD-14217-01	2	K.098	K.038		L.109	.043												
DIALING, REV. BAT. SUPV., WITHOUT BUSY LAMPS																				
WITH AUX. TRK.		SD-14217-01		.101	.031		.184	.062												
WITHOUT AUX. TRK.		SD-14217-01		.062			.069													
LONG, TO SWBD. NO. 3 OR 3B																				
WITH BUSY LAMPS		SD-15433-01	2	H.065	H.065		L.076	L.076												
WITHOUT BUSY LAMPS		SD-15433-01		.048	.048		.056	.056												
STFD. OR MF. KP, E & M LEADS SUPV.																				
		SD-95507-01	2	N.053	N.040		P.152	P.116												

NOTES:

- GROUND DRAINS IN LIST 1 ARE FOR USE WHERE ADDITIONS ARE MADE TO CENTRALIZED FUSE PANELS.
- "A" ADD .010 PER BUSY LAMP.
"C" ADD .012 PER BUSY LAMP.
"E" ADD .014 PER BUSY LAMP.
"H" ADD .016 PER BUSY LAMP.
"K" ADD .018 PER BUSY LAMP.
"L" ADD .020 PER BUSY LAMP.
"N" ADD .008 PER BUSY LAMP.
"P" ADD .022 PER BUSY LAMP.
- FOR E & M LEADS SUPV. (FIG. 6) ADD THE FOLLOWING TO 48V. BATTERY: LIST 1, .027, LIST 2, .038.
- WHEN VF TERMINATION IS REQUIRED DURING IDLE CONDITION (FIG. 7) ADD THE FOLLOWING TO 48V. BATTERY: LIST 1, .008, LIST 2, .010.

**CURRENT DRAIN
AMPERE HOURS PER BUSY HOUR**

CIRCUIT DRAWINGS		SEE NOTE NO.	DRAINS LIST 1 (SEE NOTE 1)				DRAINS LIST 2																			
CIRCUIT TITLE	CIRCUIT NO.		48 V.		24 V.		48 V.		24 V.																	
			BAT.	GRD.	BAT.	GRD.	BAT.	GRD.	BAT.	GRD.																
TRUNK, 2 WAY																										
RD. INTERTOLL OR RURAL LINE																										
WITH BUSY LAMPS																										
WITHOUT BUSY LAMPS																										
TOLL																										
WITH BUSY LAMPS																										
WITHOUT BUSY LAMPS																										
OPR. OFF. TO C.D.O. WITH BUSY LAMPS																										
WITH AUX. TRK.																										
E, M, & F LEADS SUPV.																										
LOOP SUPV.																										
WITHOUT AUX. TRK.																										
E, M, & F LEADS SUPV.																										
LOOP SUPV.																										
OPR. OFF. TO C.D.O. WITHOUT BUSY LAMPS																										
WITH AUX. TRK.																										
E, M, & F LEADS SUPV.																										
LOOP SUPV.																										
WITHOUT AUX. TRK.																										
E, M, & F LEADS SUPV.																										
LOOP SUPV.																										
TO TOLL OFF., WITH BUSY LAMPS																										
WITH FIG. 1																										
WITH FIGS. 1 & C																										
WITH FIGS. 1 & 5																										
WITH FIGS. 1 & 6																										
TO TOLL OFF., WITHOUT BUSY LAMPS																										
WITH FIG. 1																										
WITH FIGS. 1 & C																										
WITH FIGS. 1 & 5																										
WITH FIGS. 1 & 6																										
INTERTOLL																										
WITH BUSY LAMPS																										
WITHOUT BUSY LAMPS																										
AUTOMATIC																										
OPR. OFF. TO C.D.O. WITH BRIDGED TOLL STA.																										
WITH BUSY LAMPS																										
WITHOUT BUSY LAMPS																										
LONG RD. INTERTOLL, WITH BUSY LAMPS																										
WITH SEL. MULT.																										
WITHOUT SEL. MULT.																										
LONG RD. INTERTOLL, WITHOUT BUSY LAMPS																										
WITH SEL. MULT.																										
WITHOUT SEL. MULT.																										
INTERTOLL																										
WITH BUSY LAMPS																										
WITHOUT BUSY LAMPS																										

NOTES:

- GROUND DRAINS IN LIST 1 ARE FOR USE WHERE ADDITIONS ARE MADE TO CENTRALIZED FUSE PANELS.
- "E" ADD .014 PER BUSY LAMP.
"G" ADD .015 PER BUSY LAMP.
"K" ADD .018 PER BUSY LAMP.
"L" ADD .019 PER BUSY LAMP.
"N" ADD .024 PER BUSY LAMP.
"R" ADD .027 PER BUSY LAMP.
"Y" ADD .028 PER BUSY LAMP.
- FOR E&M LEADS SUPV. ADD THE FOLLOWING TO 48V. BATTERY: LIST 1, .027, LIST 2, .038.

- ADD THE FOLLOWING BAT. & GRD. DRAINS PER ANS. LAMP TO THE DRAINS OF THE CIRCUIT ON WHICH THE LAMPS ARE FUSED OR GROUNDED: FOR LAMPS C2, K1, 2Y OR 2U, LIST 1, .002, LIST 2, .004; FOR LAMP 2K, LIST 1, .0005, LIST 2, .001; FOR LAMP 2E, LIST 1, .005, LIST 2, .010.

ALARM

Busy Back	SD-15046-01 C18	on Back Cord,	
Night Alm. & Observed	SD-15048-01 H18	4 Pty. Sel.	
Off. End of Aux.		Non-coin	SD-15284-01 C27
Night Alm.		Universal, & Ringing	
Night Alm. and Fuse	SD-15233-01 K16	Ckt. Arr. to Ring	
Alm.		on Back Cord, 2 Pty.	
Fuse, For 24V., 48V.	SD-15326-01 D19	Sel., 4 Pty. Semi-	
And Coin Bat.,		Sel. or 4 Pty.,	
Ring, Current &		Sel., Coin	
60 Cycle 6 Volt			
60 Cycle Supply, For	SD-95005-01 A19	DISTRIBUTING	
6 Volt Lamps		Milliwatt, With	SD-95000-01 I7
Extension, From Dial	SD-95484-01 A18	2A Sending Panel	
Off.		DOOR OPENING	SD-90085-01 H20
ALARM RECEIVING	SD-95418-01 I19	FLASHING	SD-14148-01 H16
BUSY BACK	SD-15228-01 B17	GROUNDING	
For Use With Cord	SD-14163-01 A20	Method of Grounding	SD-12726-01 K20
Ckts. Arr. for Thru		Framework	
Supv.		GROUPING	
CALCULAGRAPH		Type F Trunk	SD-12629-01 D14
Motor-Driven	SD-95012-01 D18	Type G Trunk	SD-15109-01 E23
CONTROL		INTERRUPTER	
Type F Opr., for Use	SD-10772-01 E14	60 or 120 IPM Rel.	SD-14163-01 A20
with Stfd. Trks. Only		Int.	
Type F Opr., for Use	SD-10772-02 F14	Relay	SD-15228-01 B17
with Call Announcer		Relay, For Providing	SD-15430-01 B20
or Stfd. & C.A. Trks.	SD-12960-01 H13	Aud. Ring. Tone for	
Coin, Grd. Potential 8		Inc. Trks. From SXS	
Volts or Less	SD-15086-01 H13	Off.	
Coin, Grd. Potential		JACK	
More than 8 Volts	SD-15105-01 D24	Battery & Grd. Supply	SD-15014-01 G18
Position	SD-15130-01 E24	for P.C.I. Trk. &	
Aux., Arr. to Permit		Recorder Test Set	
Operation of F-SF &		Hold & Test, for Pro-	SD-63377-01 D17
F-CA Trks. With		viding Intertoll	
Type G Pos. Cont.		Trk. Termination	
Ckt.	SD-15451-01 C4	Jack, Lamp & Key	SD-15441-01 C26
Line Load, & Bat.		KEY SET	
Supply Switching		MF	SD-14203-01 C28
CORD		LEADS	
Dial	SD-15024-01 E29	A-C Ringing	SD-10701-01 C13
Universal, & Ring-	SD-15281-01 C27	Sup. Ringing	SD-10702-01 C13
ing Ckt. Not		Ring, for Supply-	SD-95667-01 E18
Arr. to Ring		ing Ringing Current	
on Back Cord,		to PBX's and Sta.	
2 Pty. Sel. or		Eqpts.	
4 Pty. Semi-Sel.		LINE	
Non-Coin	SD-15282-01 C27	Long	SD-12287-01 B1
Universal, & Ring-		Sub., Without Line	SD-15021-01 B3
ing Ckt. Arr.		Relay	
to Ring on Back		Sub., With Line Relay	SD-15021-02 B2
Cord, 2 Pty. Sel.			
or 4 Pty. Semi-			
Sel. Non-Coin	SD-15283-01 C27		
Universal, & Ring-			
ing Ckt. Not			
Arr. to Ring			

Rural, With Line Drop	SD-15022-01 C3	TELEPHONE	
Toll, With Line Drop	SD-15173-01 A3		
& With Busy Lamps		Sub. Operator's	SD-15024-01 D29
Rural, With Line Lamps	SD-15180-01 D3	Service Assistant's	SD-15170-01 A2
Free	SD-15267-01 J18	Trunk Operator's	SD-15221-01 C14
Test, For One Way	SD-15465-01 I6	Service Ass't., for	SD-15429-01 F17
Transmission Testing		Use at Trk. Positions	
With Auto. Disconnect		or In Lineup Which	
Sig.		Includes Trk. Pos.	
Aux., for Extending	SD-15466-01 C1	TEST	
the Coin or Coin &		Voltmeter	SD-15118-01 G32
Sr. Range of Coin		Swbd. Eqpt.	SD-15174-01 D32
Lines		TEST SET	
Aux., for Public Emg.	SD-95061-01 H32	P.C.I. Trk. and	SD-15132-01 G19
Reporting		Recorder	
Test, for One Way	SD-96000-01 I8	Jack, For Testing 49,	SD-95056-01 F20
Trans. Testing		92, 141 & 218 Type	
Aux., With Auto. Cut	SD-96468-01 C2	Jacks	
Off, Main & Extension		Local Test Cabinet	SD-96002-01 G32
Stations on Separate		No. 2 for Testing Sub.	
Loops		Lines & Trks.	
RECALL		TONE	
Audible, for Modifying	SD-96020-01 D28	High	SD-15227-01 E19
Cord & Tel. Ckts.		Low	SD-15229-01 C19
RECORDER		TRUNK APPLIQUE	SD-15099-01 D23
Ans. Time, Concentrat-	SD-96275-01 B19	TRUNK	
ing, Time Control,		Incoming	
Test & Interrupter		Type F, Tdm. Compl.,	SD-12222-01 D12
Type G Trunk	SD-12903-01 C24	4 Pty. Semi-Sel.	
REGISTER		Type F, Call Announcer,	SD-12222-02 F12
Group Busy	SD-15297-01 G17	4 Pty. Semi-Sel.	
REORDER		Type F, Tdm. Compl.,	SD-12460-01 C12
For Use With Cord Ckts.	SD-14163-01 A20	4 Pty. Sel.	
Arr. for Thru Supv.		Type F, Call Announcer,	SD-12460-02 E12
For Type F & G	SD-15228-01 B17	4 Pty. Sel.	
Trk. Eqpt.		Type F, Loc. Inc.,	SD-12461-01 B12
REPEATING COIL GROUP	SD-95022-01 E2	4 Pty. Semi-Sel.	
RINGING		Type F, Loc. Inc.,	SD-12462-01 A12
Position	SD-10886-01 B13	4 Pty. Sel.	
SIGNALING		Type F, Toll Sw.,	SD-12668-01 H12
CX	SD-12134-01 C11	4 Pty. Semi-Sel.	
	C21	Type F, Toll Sw.,	SD-12669-01 G12
CX Phantom Group	SD-90598-01 I12	4 Pty. Sel.	
SUPPLY		Call Announcer,	SD-14209-01 H3
Emergency Battery	SD-15024-01 F32	Rev. Bat. or E & M	
Bat. & Grd. Supply for	SD-90048-01 E17	Leads Supv.	
Lineman's Hand Set &		Rec. Compl., From CBR	SD-14224-01 D37
Ringing Supply for Test-		No. 5 Off., Non-Coin	
ing Defective Cables		Rec. Compl., From CBR.	SD-14225-01 E37
PBX Battery	SD-90232-01 F18	No. 5 Off., Coin	
MF Current, &	SD-95391-01 B28	Type G, Local Inc.,	SD-15096-01 A22
Distribution		4 Pty. Sel.	
		Type G, Tdm. Compl.,	SD-15096-01 C22
		4 Pty. Sel.	
		Type G, Call Announcer,	SD-15096-01 E22
		4 Pty. Sel.	
		Type G, Call Indicator,	SD-15096-01 G22
		4 Pty. Sel.	

TRUNK

Incoming (Cont'd.)

Type G, Local Inc., 4 Pty. Semi-Sel.	SD-15098-01 B22
Type G, Tdm. Compl., 4 Pty. Semi-Sel.	SD-15098-01 D22
Type G, Call Announcer, 4 Pty. Semi-Sel.	SD-15098-01 F22
Type G, Call Indicator, 4 Pty. Semi-Sel.	SD-15098-01 H22
Incpt. From Trk. Position	SD-15222-01 H4
From Local Off.,	SD-15234-01 I4
Jack Ended	
From 355A Dial Off.	SD-15314-01 I9
Sel. Levels	
From Man. Local or Tdm. Off., Rev.	SD-15327-01 F3
Bat., High Low or E, M & F Leads Supv.	
Operator Off., Tip & Ring Dial Cord Dialing,	SD-15333-01 I2
High Low Rev. Bat., E, M & F or E & M Leads Supv.	
From SXS Off., with Charge Key & Lamp	SD-15366-01 J7
Rec. Compl., from SXS Off., Coin or Non-Coin	SD-15370-01 F7
From Intertoll Sel. or Intertoll Trk. Ckt.	SD-55259-01 E9
Incpt., from SXS Off. in Same or Dst. Bldg.	SD-95708-01 G37

Outgoing

Dialing, Rev. Bat. Supv., SX Ringing Start Sig., with or without Coin Control	SD-14217-01 B37
Stfd. or MFKP, Rev. Bat. Supv., with Rep. Coil or Bridged Impedance Trans.	SD-15193-01 E4
Long, High Low Supv., With or Without Busy Lamps	SD-15235-01 J4
Dialing, to SXS Off., E&M or E, M & F Leads or Rev. Bat. Supv.	SD-15334-01 H2
To Toll Inc. Sel., 4 Wire, Controlled Ringing	SD-15342-01 F4
Dialing, to Loop Dialing Toll Train in SXS Off., 20 Cycle or no Ringing Start Sig., With or Without Coin Control	SD-15367-01 G7
Dialing, to Coin Cont. Sel. in SXS Off.	SD-15369-01 H7
To Toll Office for Use with Intertoll Dialing, Dial Cord Dialing, E & M Leads Supv.	SD-15373-01 E7
Long, to Swbd. No. 3 or 3B, Arr. for Re- ring	SD-15433-01 K7

MFKP or Stfd., with or
without Group Busy Tone
or Busy Lamps

SD-95507-01 C37

2 Way

Intertoll, MFKP, E & M Leads Supv.	SD-14215-01 A37
Ringdown or Intertoll, With Line Drop	SD-15022-01 C3
Ringdown or Intertoll, With Line Lamps	SD-15180-01 D3
Toll, to Local Man.	SD-15298-01 K5
Tributary Off., Dialing, to SXS Off., E & M or E, M & F Leads or Rev. Bat. Supv.	SD-15333-01 I2
Operator Off., Tip & Ring Dial Cord Dialing, High Low Rev. Bat., E, M & F or E & M Leads Supv.	SD-15376-01 C7
To Toll, Arr. for Thru Supv., Selective Signaling & Charge Key, Also Plug Supv., High Low Rev. Bat. or E, M & F Leads Supv.	SD-15396-01 A7
Intertoll Dial, E & M Leads Supv.	SD-15447-01 J9
Auto., 2 Wire to Man. Swbd.	SD-15491-01 D7
Cpr. Off., SX Supv. With Bridged Toll Stations, Dial Cord Dialing	SD-15507-01 E3
Long Ringdown Intertoll, With or Without A-C or D-C Busy Lamps	
Auto. From L.T.D. No. 14 or Rep. Serv. Desk No. 2 in Same Bldg.	SD-15511-01 F37

Miscellaneous

Interposition Test, From Local Test Cabinet No. 3 Not In Same Building	SD-15165-01 G4 SD-15343-01 A32
Test, From Local Test Cabinet No. 3 in Same Building	SD-15438-01 C32
Interposition, for Use As Rural or Incpt. Trk. From Inter- Office, Tdm. Compl. or Toll Sw. Trk. Pos.	SD-15444-01 H9
Transferred, from L.T.D. No. 14 or Rep. Serv. Desk No. 2 in Same Bldg.	SD-15511-01 F37
Trk. Aux. for Use With Toll Sw. Trks.	SD-90599-01 I13
Aux., Connects to Out. or Opr. Off. Trk. & Trk. from Intertoll or SXS Tdm.	SD-96384-01 H1