

SD-90250-01

BELL TELEPHONE LABORATORIES, INC.

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28	28	6-23-58	G.V.B. J.J.T.S.	P.L.L. E.W.O.

COMMON SYSTEMS MASTER KEY SHEET

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PRINTED IN U.S.A.

AT&TCO
STANDARD

SD-90250-01

REPLACING ES-262930 AND SD-62528-01

SYMBOL		EXPLANATION
1		CIRCUIT OR PART OF CIRCUIT
2		INDICATES CROSS REFERENCE.
3		CONNECTING INFORMATION OR REFERENCE
4		REPETITION OF CIRCUIT OR PART OF CIRCUIT. PORTRAYS TRAFFIC OR CONNECTING CIRCUIT INFORMATION SHOWN ELSEWHERE ON THIS KEY SHEET OR ON ANOTHER KEY SHEET.
5		INDICATES CIRCUIT INFORMATION REFERRED TO ANOTHER PAGE.
6		INDICATES CIRCUIT CONNECTION (1 AND 2).
7		INDICATES A CONNECTION FROM EACH CIRCUIT TO EACH OTHER CIRCUIT (1 TO 2, 1 TO 3, 2 TO 3).
8		INDICATES A CONNECTION IN COMMON TO THE CIRCUIT AT WHICH THE CONNECTING LINE DOES NOT TERMINATE IN A DOT. (1 TO 3 AND 2 TO 3, NO CONNECTION FROM 1 TO 2)
9		INDICATES A NON-PERMANENT CONNECTION, SUCH AS PLUG AND JACK, BANK TERMINAL AND BRUSH, OR BINDING POST CONNECTION.
10		INDICATES A NON-PERMANENT CONNECTION TO THE CIRCUITS AT WHICH THE CONNECTING LINE TERMINATES IN AN ARROW (3 TO 1 AND 3 TO 2, NO CONNECTION FROM 1 TO 2).
11		INDICATES NON-PERMANENT CONNECTIONS FROM 1 TO 3, 1 TO 4, 2 TO 3 AND 2 TO 4. NO CONNECTION FROM 1 TO 2, NO CONNECTION FROM 3 TO 4.
12		LINE A, FROM THE VERTICAL SIDE OF THE BLOCK, INDICATES A MAJOR CIRCUIT CONNECTION. LINE B, FROM THE HORIZONTAL SIDE OF THE BLOCK, INDICATES A MINOR CIRCUIT CONNECTION.
13		INDICATES OPTIONAL CONNECTING CIRCUITS (1 TO 2 OR 1 TO 3).
14		INDICATES ONE-WAY TRAFFIC.
15		INDICATES PATCHING CORD WITH BOTH PLUGS INSERTED INTO JACKS
16		INDICATES TWO-WAY TRAFFIC.
17		INDICATES CONNECTIONS FROM 1 TO 3, 1 TO 4, 2 TO 3, AND 2 TO 4. NO CONNECTION FROM 1 TO 2, NO CONNECTION FROM 3 TO 4.
18		"C" IN BLOCK INDICATES THAT CURRENT DRAIN FOR THE CIRCUIT IS NOT TO BE CONSIDERED WHEN CALCULATING DRAINS FOR LIST 1 OR LIST 2.
19		CIRCLE INDICATES THE CIRCUITS INTERCONNECT THRU TEST BOARD PRIMARY, PATCHING OR TEST JACKS.

KEY SHEET CONVENTIONS

SWBD. NO.1

NO.1 SUBSCRIBER SWBD. & TRK. SWBD. (A & M ONLY)
SD-12777-01

SWBDS. NO. 1C & 1D

SWBD. NO. 1C & 1D KEY LISTENING & JACK LIST. STFD. (A & M ONLY)
ES-262888
SEE C8

SWBDS. NO. 9C & 9D

SWBD. NO. 9C (A & M ONLY)
SD-12590-01

SWBD. NO. 10

SWBD. NO. 10 (A & M ONLY)
SD-12620-01

SWBD. NO. 11

MACHINE RINGING SWBD. NO. 11
SD-12430-01

MANUAL RINGING SWBD. NO. 11 (A & M ONLY)
SD-12431-01

TRANSMISSION MEASURING

COMMON SYSTEMS TRANSMISSION MEASURING
SD-95021-01
SEE G12

SWBD. NO. 1D CALL CKT. OPR. (A & M ONLY)
ES-262828

SWBD. NO. 9D KEY LISTENING & JACK LIST. STFD. (A & M ONLY)
SEE A7

ANN. SYSTEM NO. 6A

COMMON SYSTEMS ANN. SYSTEM NO. 6A
SD-96480-01

KEY CABINET NO. 20 OR 21

COMMON SYSTEMS KEY CABINET NO. 20 OR 21 FOR USE WITH OPERATING ROOM DESKS AND SWITCHMAN'S DESK
SD-96170-01

LOC. TEST CABINET NO. 3

COMMON SYSTEMS LOC. TEST CABINET NO. 3
SD-96272-01

DESKS

COMMON SYSTEMS ANNOUNCEMENT DESK NO. 1 TIME OF DAY SERVICE (A & M ONLY)
SD-90426-01

SWBD. NO. 12

SWBD. NO. 12
SD-15120-01

ANN. SYSTEMS 2B & 2C

COMMON SYSTEMS ANN. SYSTEM NO. 2B OR 2C
SEE NOTES 2 & 3

ANN. SYSTEM NO. 4A

COMMON SYSTEMS ANN. SYSTEM NO. 4A
SD-95790-01

LINE CONCENTRATOR-IDENTIFIER

LINE CONCENTRATOR-IDENTIFIER APPLIED TO TEL. SECRETARIAL SERVICE
SD-95780-01

COMMON SYSTEMS INF. DESK NO. 3, 4, 6A OR 6B (A & M ONLY)
SD-90201-01

OPR. TRAINING

OPR'S TRAINING EQUIPMENT NO. 2B FOR CROSSBAR, PANEL OR STEP BY STEP "A" SWBD. & OPR'S TRAINING EQUIPMENT NO. 3A FOR INFORMATION DESK NO. 1 OR 2 OR NO. 3, 4 OR 6 TYPE OR OPERATING ROOM DESK NO. 19
SD-96082-01

ANN. SYSTEM NO. 3A

COMMON SYSTEMS ANN. SYSTEM NO. 3A
SD-96280-01

MAGNETO SWBD.

MULT. MAGNETO SWBD. NO. 109A (A & M ONLY)
ES-262906
SEE G9

TANDEM SWBD.

TDM. SWBD. NO. 1 (A & M ONLY)
ES-262897

OPERATING ROOM DESK NO. 14M (A & M ONLY)
SEE G7

OPR'S TRAINING DEPT. & OPR'S TRAINING EQUIPMENT NO. 2, 2A & 2C
SD-12538-01

EMERGENCY ANN. SYSTEM

COMMON SYSTEMS EMERGENCY ANN. SYSTEM
SEE NOTE 4

COMMON SYSTEMS INF. DESK NO. 3B, 6D, 6F (A & M ONLY) OR 4B
SD-96399-01

COMMON SYSTEMS INF. DESK NO. 3A, 4A, 6C OR 6E (A & M ONLY)
SD-96402-01

CENT. CABLE LOCATION TEST DESK NO. 2 (A & M ONLY)
SD-90123-01

MISC. DESKS FOR SWBD. NO. 1, 1D, 9C & 11
ES-262843

COMMON SYSTEMS OPR'S TRAINING EQUIPMENT NO. 4A
SD-96418-01

COMMON SYSTEMS OPERATING ROOM DESK NO. 19
SD-96172-01

COMMON SYSTEMS ANNOUNCEMENT DESK NO. 1B TIME OF DAY SERVICE (A & M ONLY)
SD-96157-01

CABLE TEST DESK NO. 3
SD-90421-01

COMMON SYSTEMS INF. DESK NO. 1 (A & M ONLY)
SD-90265-01

COMMON SYSTEMS INF. DESK NO. 7 OR 7A
SD-96397-01

SEE H12
SERV. OBS. DESKS & SERV. OBS. SETS
SEE NOTE 1
SD-90625-01

LOC. TEST DESK NO. 14 REPAIR SERV. DESK NO. 2 & TEST SUPERVISOR'S PRIVATE DESK
SD-90472-01

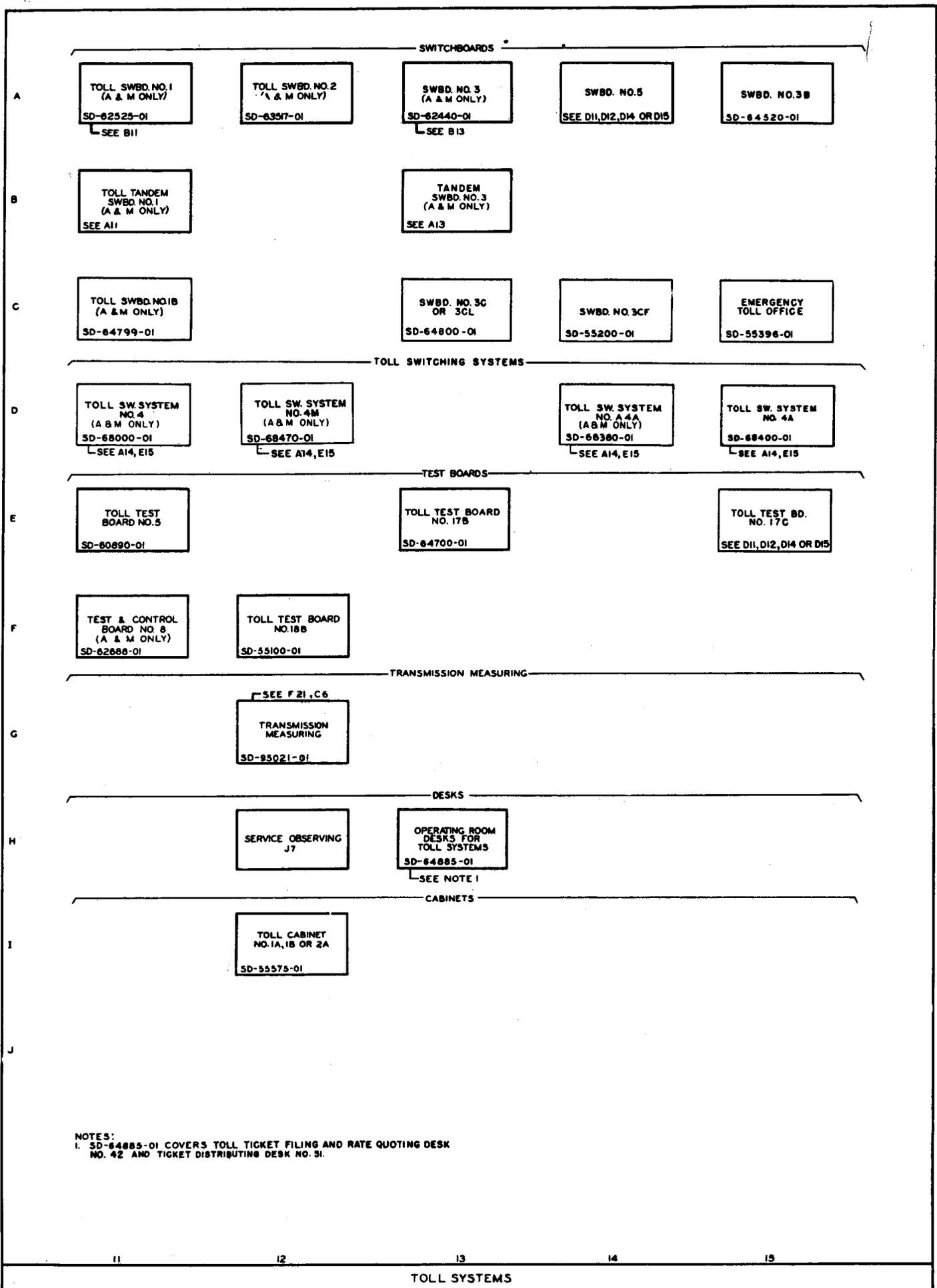
COMMON SYSTEMS INF. DESK NO. 2
SD-90267-01

COMMON SYSTEMS REPAIR SERV. DESK NO. 1C AND LOCAL TEST DESKS NOS. 12A, 12B & 12C (A & M ONLY)
SD-90602-01
SEE D2, C4

- NOTES:
- SD-90625-01 COVERS SERVICE OBSERVING DESKS NOS. 4, 7 (A & M ONLY), 9, 10, 11 & 12 AND SERVICE OBSERVING SET NO. 6.
 - THE ANNOUNCEMENT SYSTEM NO. 2B CONSISTS OF THE FOLLOWING CKTS:
SD-96208-01 - STATION CKT.
SD-96212-01 - STATION LINE CKT.
 - THE ANNOUNCEMENT SYSTEM NO. 2C CONSISTS OF THE FOLLOWING CKTS:
SD-96213-01 - STATION CKT.
SD-96212-01 - STATION LINE CKT.
 - THE EMERGENCY ANNOUNCEMENT SYSTEM CONSISTS OF THE FOLLOWING CKTS:
SD-95397-01 LINE CKT.
SD-95388-01 CONTROL CKT.

OPERATING ROOM DESK NO. 23A, B, C OR D
SD-95760-01

OPERATING ROOM DESK NO. 23E
SD-95770-01



NOTES:
 1. SD-64885-01 COVERS TOLL TICKET FILING AND RATE QUOTING DESK NO. 42 AND TICKET DISTRIBUTING DESK NO. 51.

11 12 13 14 15

TOLL SYSTEMS

TELEPHONE REPEATER

TELEPHONE REPEATER
4 WIRE
SD-62407-01

SEE 217

TELEPHONE REPEATER
VI
SD-59070-01

TELEPHONE REPEATER
V3
SD-59070-02

ECHO SUPPRESSOR

ECHO SUPPRESSOR
SEE A18

CARRIER TELEPHONE

CARRIER TELEPHONE
SD-63394-01

K2
CARRIER TELEPHONE
SD-63394-03

BROADBAND
CARRIER TELEPHONE
SD-63394-05

BROADBAND
CARRIER TELEPHONE
CHANNEL CARRIER
TERMINAL CKTS.
SD-63394-06

PROGRAM TRANSMISSION

PROGRAM
TRANSMISSION
SD-62475-01

SIGNALING

SIGNALING
LINE, COMPOSITE
& SIMPLEX
SD-62403-01

LINE AND BALANCING

LINE
AND BALANCING
SD-62404-01

A
B
C
D
E
F
G
H
I
J

TELETYPEWRITER
SWBDS.
SD-63477-02
SEE A22

TELETYPEWRITER
STATION CKTS
SEE A21

TELETYPEWRITER
LINE CONCENTRATING
UNIT NO.101A &
NO.102A
SD-70345-01

TELETYPEWRITER
SWITCHING UNIT
NO.81B1
SD-70448-01

TELETYPEWRITER
SWITCHING UNIT
NO. 81C1
SD-70654-01

TELEGRAPH
TEST BOARDS
SD-63125-01

TELETYPEWRITER
LINE CONCENTRATING
UNIT NO.101
(A & M ONLY)
SD-70259-01

TELETYPEWRITER
SWBDS.
69 TYPE
SD-70471-01

TELETYPEWRITER
SWITCHING UNIT
NO.81D1
SD-70654-02

CARRIER TELEGRAPH
& D-C TELEGRAPH
SD-63477-01

CARRIER TELEGRAPH
40C2
(A & M ONLY)
40C1 OR 43A1
SD-70700-01

TELEGRAPH
SERVICE BOARD
NO.1
SD-70359-01

TELEPHOTOGRAPH
SD-70134-01

TRANSMISSION
MEASURING
SD-95021-01
SEE G12

21

22

23

24

25

POWER SYSTEMS
KEY SHEET

SD-80700-01

A
B
C
D
E
F
G
H
I
J

SD-3-14-60

26

27

28

29

30

TABLE 1

CHARACTERISTIC IMPEDANCE IN OHMS AT 1000 CYCLES EXCHANGE AREA CABLE FACILITIES (SEE NOTES 1,2 & 9)													
LOADING	CABLE GAUGE & CODE												
	26		24			22				19		16	U & UA DISTRIBUTION WIRE
	ST,AST	BST	M,SM, ASM,CSM	DSM	NM	SA,ASA, BSA,CSA	NA,ANA	TA	TS	TB, ANB,DNB	BNB,CNB	TH,NN	
NL	1007	942	778	721	820	576	612	664	633	453	402	320	254
B88	1604	1499	1530	1416		1420				1565	1395	1565	
B135	1949	1821	1888	1748		1765				1952	1742	1951	
B175	2218	2073	2161	2001		2027				2238		2238	
D88	1385	1294	1290	1194		1180				1295	1158	1295	
D135	1652	1544	1580	1463		1470				1620	1449		
D175	1872	1750	1810	1676		1698				1863	1677	1825	
H44	1098	1026	922	854		783				811	723	794	
H88	1275	1192	1160	1074		1051				1137	1017	1130	
H135	1490	1393	1407	1303		1306				1425	1283	1420	
H175										1645		1694	
H250										2030	1860	2030	
M88	1180	1103	1028	952		905				956	861	937	
M135	1338	1250	1223	1132		1123				1200	1098	1200	
M175										1410	1285	1410	
R133										1083		1083	
L44													510

TABLE 2

CHARACTERISTIC IMPEDANCE IN OHMS AT 1000 CYCLES TOLL CABLE FACILITIES (SEE NOTES 1,2,3,4 & 9)			
SIDE		PHANTOM	
LOADING	IMPEDANCE	LOADING	IMPEDANCE
10NL	179		
13NL	238		
16NL	332	16NL	186
19NL	469	19NL	259
B88	1543	B50	921
E28	650	E16	400
E248	1950	E154	1200
H31	665	H18	405
H44	821	H25	494
H86	1160	H32	547
H88	1160	H50	687
H172	1660	H63	782
H174	1660	H106	1048
H245	1850	H155	1150
K200	1500	K130	950
M44	660	M25	395
M174	1300	M106	800

TABLE 3

CHARACTERISTIC IMPEDANCE IN OHMS AT 1000 CYCLES NON LOADED OPEN WIRE FACILITIES (SEE NOTES 1,2,5,6,7,8 & 9)							
WIRE		SPACING					
TYPE	SIZE IN MILS	SIDE OR PHYSICAL				PHANTOM NPP	
		NPP 6"	NPP 8"	NPP 12"	PP	8"	12"
COPPER	80		722	766		481	454
COPPER	104	611	644	689	730		421
COPPER	128	569	602	648	692		401
COPPER	165	529	563	610	654		373
COPPER STEEL 40%	104	734	763	806		498	472
COPPER STEEL 40%	128	639	676	712		454	427
COPPER STEEL 40%	165	555	590	631		417	390
HIGH STRENGTH STEEL	109			1425			795
STEEL 1.2 OZ. ZINC COATING	109			1235			
STEEL 2.4 OZ. ZINC COATING	109			1173			
STEEL	134			1356			765
BB IRON	109			1579*			

NOTES:

1. VOICE FREQUENCY REPEATERS ARE 600 OHMS.
2. THE OFFICE IMPEDANCE FOR LOCAL OFFICES IS ASSUMED TO BE 900 OHMS. HOWEVER, FOR MAGNETO AND NO.12 OFFICES, WHEN THE MAJORITY OF THE SUBSCRIBER LINES ARE IN OPEN WIRE, TRANSMISSION CONSIDERATIONS MAY WARRANT THE ASSUMPTION OF AN OFFICE IMPEDANCE OF 1500 OHMS. IF THIS HIGHER OFFICE IMPEDANCE IS ASSUMED, IT WILL BE SPECIFIED BY THE TELEPHONE COMPANY. THE OFFICE IMPEDANCE FOR TOLL OFFICES IS ASSUMED TO BE 600 OHMS. THE OFFICE IMPEDANCE OF TANDEM OFFICES IS SPECIFIED BY THE TELEPHONE COMPANY. IT IS USUALLY BETWEEN 600 OHMS AND 1800 OHMS.
3. FOR NON LOADED (NL) FACILITIES, FIGURES TO THE LEFT ARE THE GAUGE OF THE WIRE.
4. FOR LOADED FACILITIES, THE IMPEDANCE VALUES APPLY TO ANY GAUGE WHICH WOULD BE USED WITH THAT TYPE OF LOADING.
5. ALL VALUES ARE FOR DRY WEATHER UNLESS OTHERWISE SPECIFIED.
6. NPP-NON POLE PAIR.
7. PP-POLE PAIR.
8. * INDICATES WET WEATHER VALUE.
9. THE INFORMATION IN THIS TABLE IS FOR USE ONLY IN SELECTING THE PROPER REPEATING COILS FOR CIRCUITS.

COMMON SYSTEMS

Announcement Systems

Ann. System No. 2B Station Ckt. Station Line Ckt.	SD-96208-01 SD-96212-01	E6 E6
Ann. System No. 2C Station Line Ckt. Station Ckt.	SD-96212-01 SD-96213-01	E6 E6
Ann. System No. 3A	SD-96280-01	F6
Emg. Ann. System Line Ckt. Control Ckt.	SD-95387-01 SD-95388-01	G6 G6
Ann. System No. 4A	SD-95790-01	F7
Ann. System No. 6A	SD-96480-01	D6
<u>Desks</u>		
Cent. Cable Location Test Desk No. 2	SD-90123-01	H8
Inf. No. 3, 4, 6A or 6B	SD-90201-01	F9
Information No. 1	SD-90265-01	I9
Information No. 2	SD-90267-01	J9
Cable Test Desk No. 3	SD-90421-01	I8
Announcement No. 1, Time of Day Service	SD-90426-01	E9
Loc. Test Desk No. 14	SD-90472-01	J8
Repair Serv. No. 2 & Test Supv.'s Priv. Desk	SD-90472-01	J8
Loc. Test Desk Nos. 12A, 12B & 12C	SD-90602-01	J10
Repair Serv. No. 1C	SD-90602-01	J10
Serv. Obs. & Serv. Obs. Sets	SD-90625-01	J7
Opr. Room Desk No. 23A, B, C or D	SD-95760-01	K8
Opr. Room Desk No. 23E	SD-95770-01	K9
Announcement No. 1B Time of Day Service	SD-96157-01	I7
Key Cabinet No. 20 or 21 for Use with Opr. Room Desks & Swman's Desk	SD-96170-01 SD-96172-01	E7 I6
Opr. Room No. 19	SD-96172-01	I6
Information No. 7 or 7A	SD-96397-01	J6
Inf. No. 3B, 4B, 6D or 6F	SD-96399-01	H6
Inf. No. 3A, 4A, 6C or 6E	SD-96402-01	H7
Misc. for Swbd. No. 1, 1D, 9C & 11	ES-262843	H9
Opr. Room No. 14M	ES-262906	G9

Line Concentrator -
Identifier Applied to
Tel. Secretarial
Service

SD-95780-01 F8

Local Test Cabinet No. 3 SD-96272-01 E8

Operator's Training

Opr. Training Eqpt. No. 2B for Cbr., Pan. or SXS "A" Swbd. & Opr.'s Training Eqpt. No. 3A for Inf. Desk No. 1 or 2, or No. 3, 4 or 6 Type or Opr. Room Desk No. 19	SD-96082-01	F10
Opr.'s Training Eqpt. No. 4A	SD-96418-01	H10

Transmission Measuring

SD-95021-01 C6

CROSSBAR SYSTEMS

Crossbar No. 1	SD-25000-01	F2
Crossbar "A" Swbd. No. 15D	SD-25000-01	G2
Crossbar Tandem Off.	SD-25435-01	H2
Crossbar No. 5	SD-25760-01	I2
No. 3CL DSA Swbd.	SD-64800-01	G2

MANUAL SYSTEMS

<u>Opr.'s Training Dept. & Opr.'s Training Eqpt. No. 2, 2A & 2C</u>	SD-12538-01	G10
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Switchboard

Mach. Ring. No. 11	SD-12430-01	A10
Man. Ring. No. 11	SD-12431-01	B10
No. 9C	SD-12590-01	A8
No. 10	SD-12620-01	A9
No. 1	SD-12777-01	A6
No. 12	SD-15120-01	E10
No. 1D Call Ckt. Opr. No. 1C & 1D, Key List. & Jack List. Stfd.	ES-262828	C7
No. 9D Key List & Jack List. Stfd.	ES-262888	A7
Tandem No. 1	ES-262888	C8
Mult. Magneto	ES-262897	G8
No. 109A	ES-262906	G7

NORTH ELEC. MFG. CO.

CX TYPE COMMUNITY DIAL OFFICE	SD-99000-01	J2
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PANEL SYSTEMS

Battery Cut-off Relay Office	SD-21300-01	A2
"A" Swbd. No. 15D	SD-21300-01	E1
Sender Tandem Office & Office Selector Tandem	SD-21301-01	B2
Grd. Cut-off Relay Off. Pan. Link Type	SD-21680-01	C2
"A" Swbd. No. 13D	SD-21680-01	E2
No. 3CL DSA Swbd.	SD-64800-01	E1
Loc. Test Desk No. 12B & Rep. Serv. Desk No. 1C	SD-90602-01	D2
3 Digit, Sdr. Sel. Type	ES-262532	A1

PANEL SYSTEMS (CONT'D)

2 & 2-3 Digit, Sender Sel. Type	ES-262647	B1
3 Digit, Rotary Link, Grd. on C.O. Relay	ES-262829	C1
Jack Assignments, Rotary Link, Grd. on C.O. Relay	ES-262846	H1
2 & 2-3 Digit, Rotary Link, Grd. on C.O. Relay	ES-262849	D1
Trouble Desk & Semi-Mech. "A" Swbd., Grd. on C.O. Relay	ES-262859	F1
Jack Assignments, Pan. Link, Grd. on C.O. Relay	ES-262954	I1
Sup. Key Sheet, Call Ckt. Type, Cordless "B" Swbd.	ES-262968	G1

PBX SYSTEMS

No. 74OE	SD-65676-01	F3
No. 556A	SD-65678-01	G3
No. 607A	SD-65730-01	J4
No. 557A	SD-65735-01	G4
No. 607B	SD-65740-01	J4
No. 701B	SD-65775-01	E3
No. 711B	SD-65780-01	E5
No. 756A	SD-65910-01	F5
No. 551A or B	SD-66270-01	J3
Order Turret No. 3	SD-66317-01	G5
No. 702A	SD-66382-01	H3
No. 606A	SD-66383-01	H4
No. 554B or 554C	SD-66423-01	F4
No. 701A	SD-66457-01	I3
No. 711A	SD-66458-01	E4
No. 605A	SD-66459-01	H5
No. 755A	SD-66490-01	K4
Order Turret No. 4	SD-66510-01	J5
Order Turret No. 2A	SD-66512-01	I5
No. 555	SD-66525-01	D4
No. 552A or 552D	SD-66591-01	K5
Emg. Reporting System Station, Line & Pos. Ckt. with Jack Ended Lines	SD-66689-01	I4

POWER SYSTEMS	SD-80700-01	A28
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STATION SYSTEMS

Key Eqpts., Key Tel Systems & Unattended Station	SD-69061-01	J1
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STEP-BY-STEP SYSTEMS

No. 360A	SD-31250-01	B4
No. 1	SD-31359-01	A5
"A" Swbd., No. 15C	SD-31359-01	A4
No. 350A & Branch Off. Line Sw. & Repeated	SD-31364-01	B5
Dial Toll Train	SD-31388-01	A3
No. 355A	SD-31780-01	C5

STEP-BY-STEP SYSTEMS (CONT'D)

No. 1 or 350A Automatic Ticketing	SD-32050-01	D5
No. 356A	SD-32149-01	D3
No. 1 with AMA	SD-32230-01	C3
DSA Swbd. No. 3C or 3CL	SD-64800-01	A4
Loc. Test Desk No. 12C & Rep. Serv. Desk		
No. 1C	SD-90602-01	C4
Jack Assignments Line Sw. Office	ES-262970	B3

TELEGRAPH SYSTEMS

Telegraph Test Boards	SD-63125-01	B21
Carrier Telegraph & D.C. Telegraph	SD-63477-01	C21
Teletypewriter Swbds. Teletypewriter Sta. Ckts.	SD-63477-02	A21
Telephotograph	SD-63477-02	A22
Teletypewriter Line Concentrating Unit	SD-70134-01	E21
No. 101	SD-70259-01	B22
Teletypewriter Line Concentrating Unit		
No. 101A & 102A	SD-70345-01	A23
Telegraph Serv. Bd. No. 1	SD-70359-01	D21
Teletypewriter Switching Unit No. 81B1	SD-70448-01	A24
Teletypewriter Swbds. 69 Type	SD-70471-01	B23
Teletypewriter Switching Unit No. 81C1	SD-70654-01	A25
Teletypewriter Switching Unit No. 81D1	SD-70654-02	B25
Carrier Telegraph	SD-70700-01	C22
Transmission Measuring	SD-95021-01	F21

TOLL SYSTEMS

Toll Test Bd. No. 18B	SD-55100-01	F12
Swbd. No. 3CF	SD-55200-01	C14
Emergency Toll Off.	SD-55396-01	C15
Toll Cabinet No. 1A, 1B or 2A	SD-55575-01	I12
Telephone Repeater V1	SD-59070-01	A19
Telephone Repeater V3	SD-59070-02	A20
Toll Test Bd. No. 5	SD-60890-01	E11
Line & Balancing	SD-62404-01	J16
Signaling, Line, Composite & Simplex	SD-62405-01	H16
Telephone Repeater 4 Wire	SD-62407-01	A18
Echo Suppressor	SD-62407-01	B17
Swbd. No. 3	SD-62440-01	A13
Toll Tandem Swbd. No. 3	SD-62440-01	B13
Program Transmission	SD-62475-01	F16
Toll Swbd. No. 1	SD-62525-01	A11
Toll Tandem Swbd. No. 1	SD-62525-01	B11
Test & Control Bd. No. 8	SD-62688-01	F11
Carrier Telephone	SD-63394-01	D17
"K2" Carrier Telephone	SD-63394-C3	D18
Broadband Carrier Telephone	SD-63394-05	D19

TOLL SYSTEMS (CONT'D)

Broadband Carrier Telephone Channel Carrier Terminal Ckts.	SD-63394-C6	D20	Toll Test Bd. No. 17C for Use with Toll Sw. System No. A4A	SD-68380-01	E15
Toll Swbd. No. 2	SD-63517-01	A12	Toll Switching System No. 4A	SD-68400-01	D15
Swbd. No. 3B	SD-64520-01	A15	Swbd. No. 5 for Use with Toll Sw. System No. 4A	SD-68400-01	A14
Toll Test Bd. No. 17B	SD-64700-01	E13	Toll Test Bd. No. 17C for Use with Toll Sw. System No. 4A	SD-68400-01	E15
Toll Swbd. No. 1B	SD-64799-01	C11	Toll Switching System No. 4M	SD-68470-01	D12
Swbd. No. 3C or 3CL	SD-64800-01	C13	Swbd. No. 5 for Use with Toll Sw. System No. 4M	SD-68470-01	A14
Operating Room Desks	SD-64885-01	H13	Toll Test Bd. No. 17C for Use with Toll Sw. System No. 4M	SD-68470-01	E15
Toll Switching System No. 4	SD-68000-01	D11	Service Observing Transmission Measuring	SD-90625-01	H12
Swbd. No. 5 for use with Toll Sw. System No. 4	SD-68000-01	A14		SD-95021-01	G12
Toll Test Bd. No. 17C for Use with Toll Sw. System No. 4	SD-68000-01	E15			
Toll Switching System No. A4A	SD-68380-01	D14			
Swbd. No. 5 for Use with Toll Sw. System No. A4A	SD-68380-01	A14			