

DRAWING
 ISSUE
 1 SA
 2 WA
 3 KA
 3B PAK
 P/S
 P/P
 3D P/S
 P/P

APPARATUS INDEX

DESIG	LOCATION		
	FS	APP FIG.	EQPT
RELAYS			
A	2B1	1	-
B	2D1	1	-
BN	1D1	1	-
C	2E1	1	-
F	2H1	1	-
H	2G1	1	-
LO0	1A6	1	-
LO1	1B6	1	-
LO2	1C6	1	-
LO3	1D6	1	-
LO4	1D6	1	-
LO5	1E6	1	-
LO6	1F6	1	-
LO7	1F6	1	-
LO8	1G6	1	-
LO9	1G6	1	-
LOE	1B8	1	-
NC0	3C4	1	-
NC1	3C4	1	-
NC2	3D4	1	-
NC3	3D4	1	-
NC4	3E4	1	-
NC5	3F4	1	-
NC6	3F4	1	-
NC7	3G4	1	-
NC8	3G4	1	-
NC9	3H4	1	-
NSA	3B4	1	-
ON	2F1	1	-
RA	1D1	1	-
RAC	1E1	1	-
RL	2F1	1	-
RTK	2D3	1	-
SIG	1D8	1	-

CAPACITORS			
A	2B2	1	-
BT	2C2	1	-

LEAD INDEX

DESIG	LOCATION		
	FS	APP FIG.	EQPT
DIODES			
LO0	1A5	1	-
LO1	1B5	1	-
LO2	1F5	1	-
LO3	1D5	1	-
LO4	1D5	1	-
LO5	1E5	1	-
LO6	1F5	1	-
LO7	1F5	1	-
LO8	1G5	1	-
LO9	1G5	1	-
REPEAT COIL			
A	2B2	1	-
RESISTOR			
A	2B2	1	-
THERMISTOR			
RL	2G1	1	-
RESISTANCE LAMP			
A	1F8	1	-

DESIG	FS LOC
TWO WAY TRUNK CRT TO CENTRAL OFFICE	
ACAG	2H7
ACAT 9	2D8
HD	2D4
HD1	2F4
LO0	1A4
LO1-9	1D4
RTK0	2F4
RTK1 9	2F3
CORDLESS POSITION CIRCUIT	
ACG	2B7
ACG1	2B7
H	2D2
RA	1C0
TR	2B4
TR1	2C4
TT	2B4
TT1	2C4

DESIG	FS LOC
LINE, LINK & MARKER CIRCUIT	
COSA	1F1
COSA1	1F1
COSB	1H1
COSB1	1H1
P2	2B1
S2	2C1
TL	2C1
ALARM, TRANSFER & TEST CIRCUIT	
NCC	2H7
NC1-9	2E7
NSA	3B4
POWER SUPPLY CIRCUIT	
ST	2C1
H1	1F7
RG OR RING G	1F7
EXTERNALLY ADJUSTED SIGNALING EQUIPMENT	
TCW1	1E9
TCW2	1E9
TCW3	1F9
TCW4	1F9

OPTION INDEX

APP OR WRG	LOCATION
Z	2B2, 2E0, 2E1
Y	2B2, 2E0, 2E1
X	1E8
W	1E8

AUXILIARY POSITION CIRCUIT **2** SD-66910-01-A2

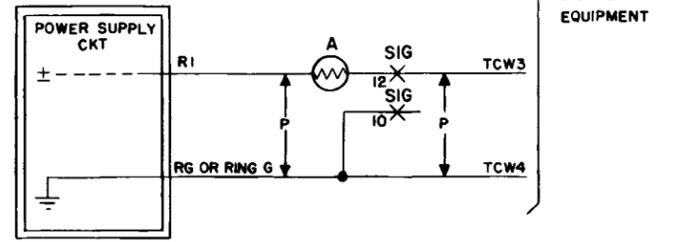
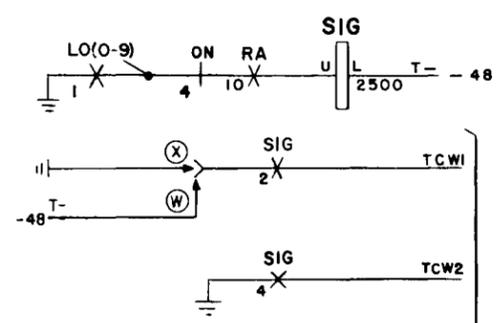
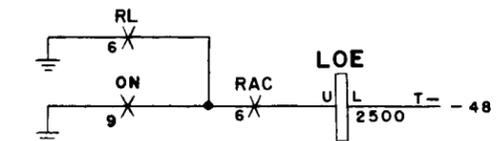
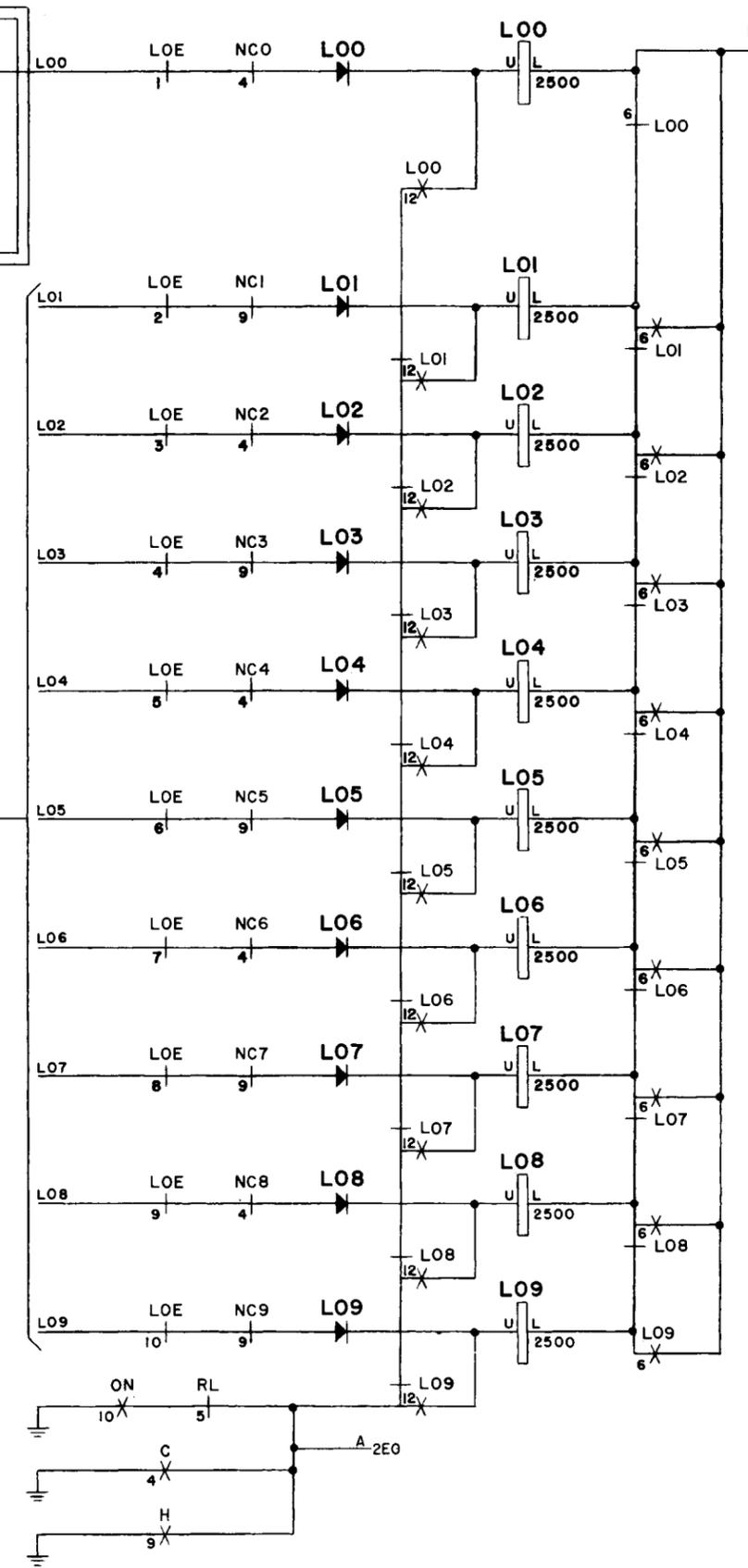
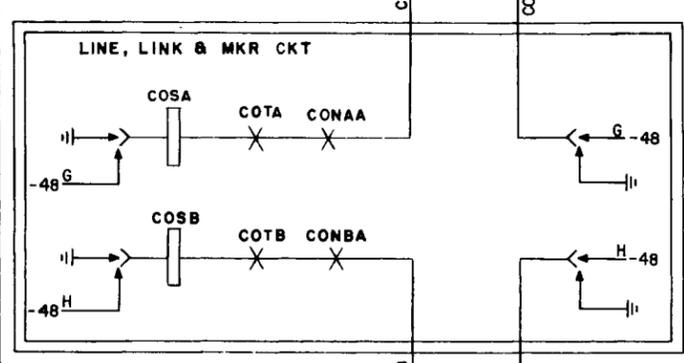
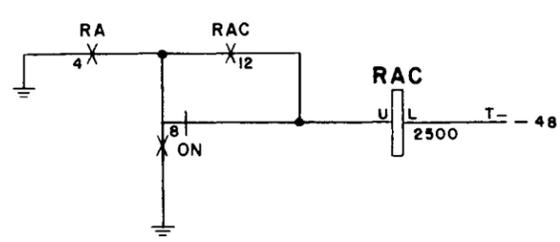
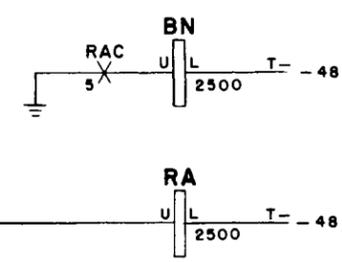
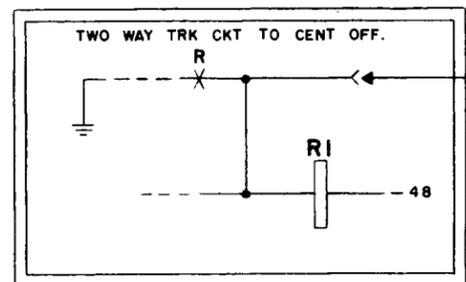
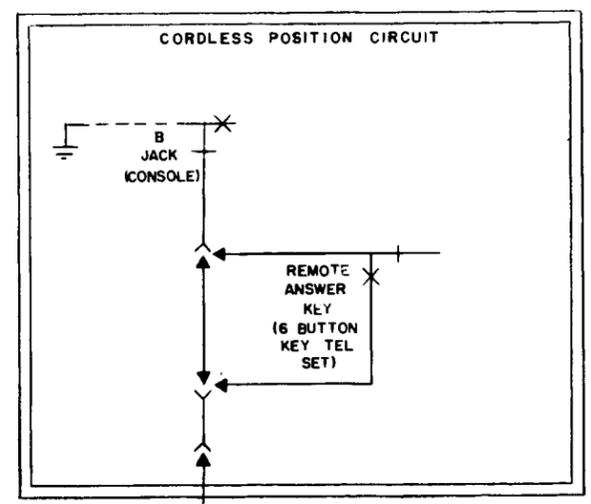
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FSI
REMOTE ANSWER
CONNECT CIRCUIT

FS2
INCOMING SIGNAL
PREFERENCE AND
CONNECT CIRCUIT

DRAWING	ISSUE
1	1
2D	2
3B	3
4D	4

A
B
C
D
E
F
G
H



TO EXTERNALLY MOUNTED SIGNALING EQUIPMENT

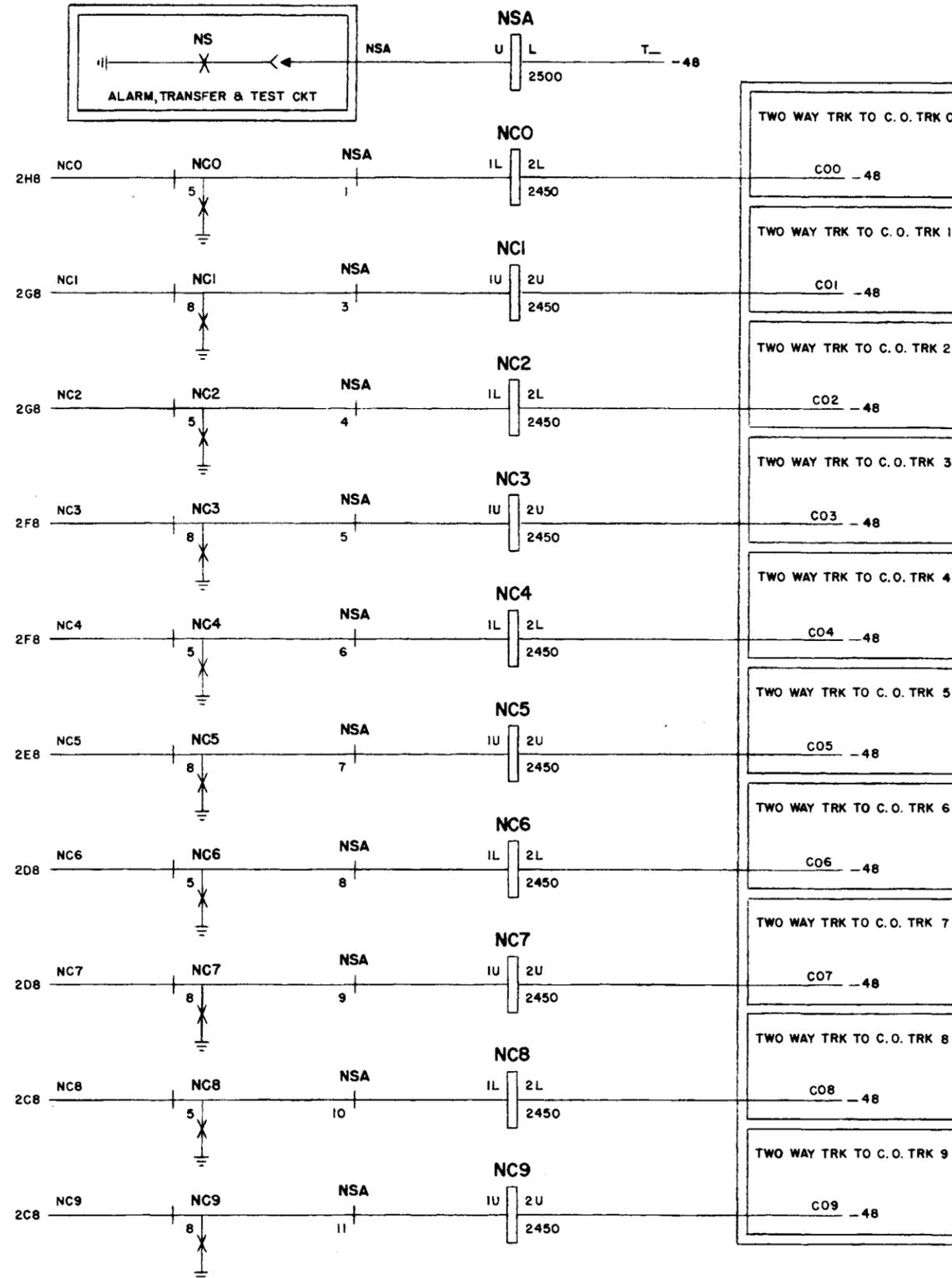
SD-66910-01-BI

AUXILIARY POSITION CIRCUIT **2** SD-66910-01-BI
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FS 4

AUXILIARY NIGHT CONNECTION CIRCUIT

DRAWING
ISSUE
PFD
JFF HW
KFL



SD-66910-01-B3

PBX SYSTEMS NO. 756A AUXILIARY POSITION CIRCUIT		SD-66910-01-B3
BELL TELEPHONE LABORATORIES INCORPORATED		
6S		1

APP FIG. 1

RELAY		A		3		8N		C		F		H		L00		L01		L02		L03		L04		L05		DESIG
CODE		AJ59		AG41		AF129		AG21		AK24				AF79		CODE										
OPTION	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	OPTION	
12																									12	
11																									11	
10																									10	
9																									9	
8																									8	
7																									7	
6																									6	
5																									5	
4																									4	
3																									3	
2																									2	
1																									1	
COIL																									COIL	

RELAY		L06		L07		L08		L09		L0E		NCO		NC1		NC2		NC3		NC4		NC5		DESIG	
CODE		AF79		AF79		AF79		AF79		AJ5		AK4		CODE											
OPTION	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	OPTION
12																								12	
11																								11	
10																								10	
9																								9	
8																								8	
7																								7	
6																								6	
5																								5	
4																								4	
3																								3	
2																								2	
1																								1	
COIL																								COIL	

<u>CAPACITORS</u>	<u>REPT COIL</u>	<u>DIODES</u>	<u>RESISTANCE LAMP</u>
DESIG LOC CODE	DESIG LOC CODE	DESIG LOC CODE	DESIG LOC CODE
A 2B2 439A	A 2B2 202A	L00 1A5 44F	A 1F8 13G
BT 2C2 4411		L01 1B5 44F	
		L02 1C5 44F	
		L03 1D5 44F	
		L04 1E5 44F	
		L05 1F5 44F	
		L06 1G5 44F	
		L07 1H5 44F	
		L08 1I5 44F	
		L09 1J5 44F	

RELAY		NC6		NC7		NC8		NC9		NSA		ON		RA		RAC		RL		RTK		SIG		DESIG	
CODE		AK4		AK4		AK4		AF129		AF112		AF115		AJ5		AF134		AF50		AF60				CODE	
OPTION	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	OPTION
12																								12	
11																								11	
10																								10	
9																								9	
8																								8	
7																								7	
6																								6	
5																								5	
4																								4	
3																								3	
2																								2	
1																								1	
COIL																								COIL	

RELAY		L06		L07		L08		L09		L0E		NCO		NC1		NC2		NC3		NC4		NC5		DESIG	
CODE		AF79		AF79		AF79		AF79		AJ5		AK4		CODE											
OPTION	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	OPTION
12																								12	
11																								11	
10																								10	
9																								9	
8																								8	
7																								7	
6																								6	
5																								5	
4																								4	
3																								3	
2																								2	
1																								1	
COIL																								COIL	

AUXILIARY POSITION CIRCUIT SD-66910-01-C1

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3

CIRCUIT NOTES:

DESIG	FUSE AMP	POTENTIAL	ONE PER
T-	1-1/3	-48V	APP FIG 1 (SEE NOTE 105)
COO-9	1-1/3	-49V	APP FIG.1
G	1-1/3	-49V	APP FIG.1
H	1-1/3	-43V	APP FIG.1
BATTERY SYMBOL		VOLTAGE RANGE	
-48		45-52V	

NOTES:
1. FUSES DESIGNATED COO-9 SHALL BE OBTAINED FROM TWO WAY TRK TO CO AND FUSES DESIGNATED G AND H SHALL BE OBTAINED FROM MKR CKT .

FEATURE OR OPTION	PROVIDE		
	APP FIG.	APP OR WRG	QUANTITY
AUXILIARY POSITION CIRCUIT	1		MAX 1 PER PBX

NETWORK VALUES		
NETWORK NO.	RESISTANCE IN OHMS	CAPACITANCE IN UF

RECORD OF FIGURES, WIRING AND APPARATUS CHANGES						
CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FUR.I	SEE NOTE	USE IN CIRCUIT		
				STD	A & M	MD
3B	Y,Z	Z		Y		Z
	X,W	X		W		X

105. DESIGNATE FUSE T- TO CORRESPOND TO TRUNK TERMINATION FOR MISCELLANEOUS TRUNKS ASSIGNED TO AUX POS CKT (T90-99) .
106. WHEN THIS CIRCUIT IS PROVIDED, "ZZ" OPTION SHALL BE PROVIDED IN THE TWO WAY TRUNK CIRCUIT TO CENTRAL OFFICE .

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

TRANSMISSION TEST REQUIREMENTS
(1000 CYCLE LOSS BETWEEN 600Ω LINES)

MAX ALLOWABLE CIRCUIT LOSS (db)	
	2.5

ALLOWABLE INDIVIDUAL APPARATUS LOSSES (db)					
APPARATUS	DESIG	CODE	MAX LOSS	MIN LOSS	REMARKS
CAPACITOR	A	2MF	13.7	11.7	
RELAY	A	AJ59	0.2		
RPT COIL	A	202A	1.2	0.6	STRAP (A) RES

WORKING LIMITS

MAX EXT CKT LOOP RES - A RELAY - 3300 OHMS
MIN INSULATION RES 10,000 OHMS

DRAWING ISSUE
1 SAK
2D EWE SAK KFU
3B PMC PLS RHP

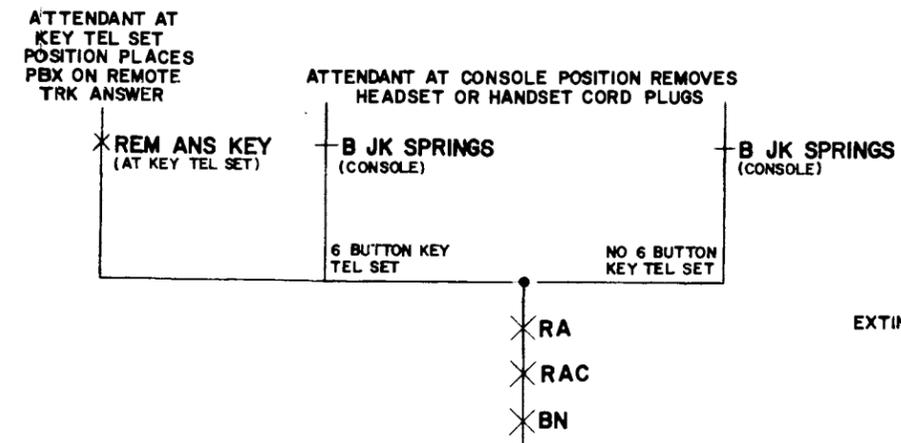
3

AUXILIARY POSITION CIRCUIT	SD-66910-01-D1
BELL TELEPHONE LABORATORIES INCORPORATED	65 PRINTED IN U.S.A.

SD-66910-01-D1

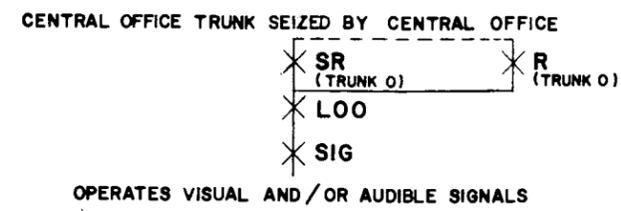
SC 1

ATTENDANT ESTABLISHES REMOTE ANSWER CONNECTIONS FOR CENTRAL OFFICE TRUNKS



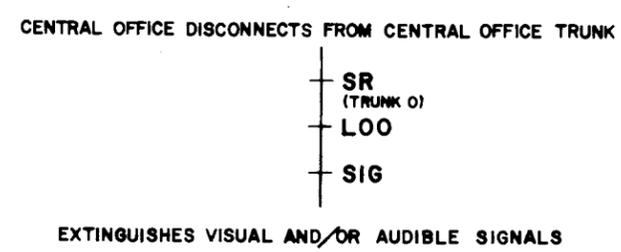
SC 2

INCOMING CALL TO A CENTRAL OFFICE TRUNK (PREVIOUS ACTION SHOWN ON SC 1)



SC 3

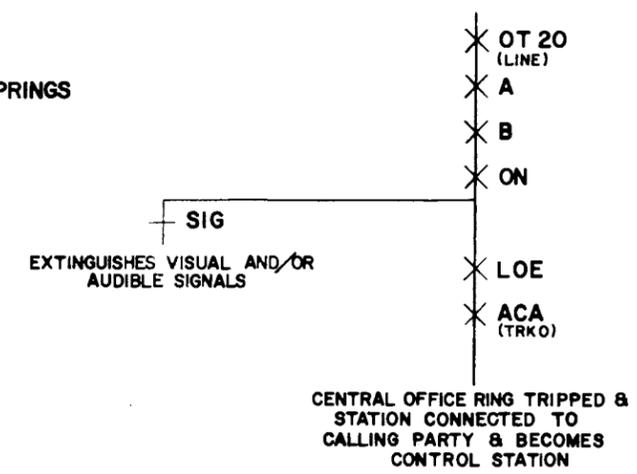
CALLING PARTY DISCONNECTS BEFORE CALL IS ANSWERED (PREVIOUS ACTION SHOWN ON SC 2)



SC 4

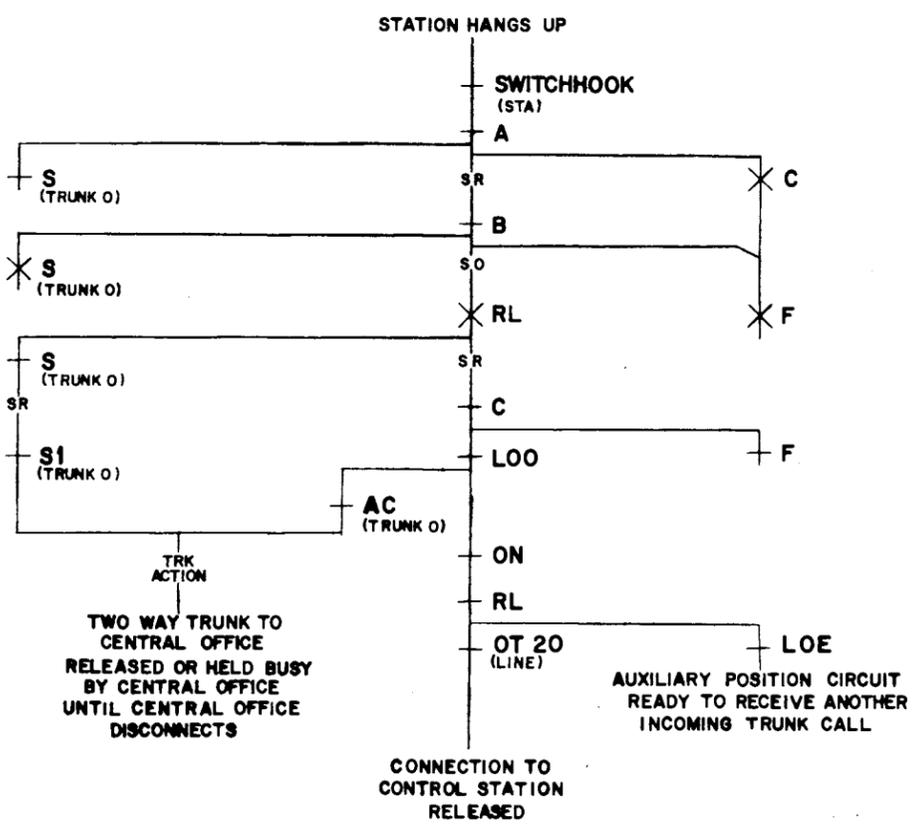
INCOMING CALL ANSWERED FROM A PBX STATION (PREVIOUS ACTION SHOWN ON SC 2)

REMOTE ANSWERING CODE 80 DIALED FROM PBX STATION & PBX FUNCTIONS TO SEIZE UNIVERSAL LINE CIRCUIT 80



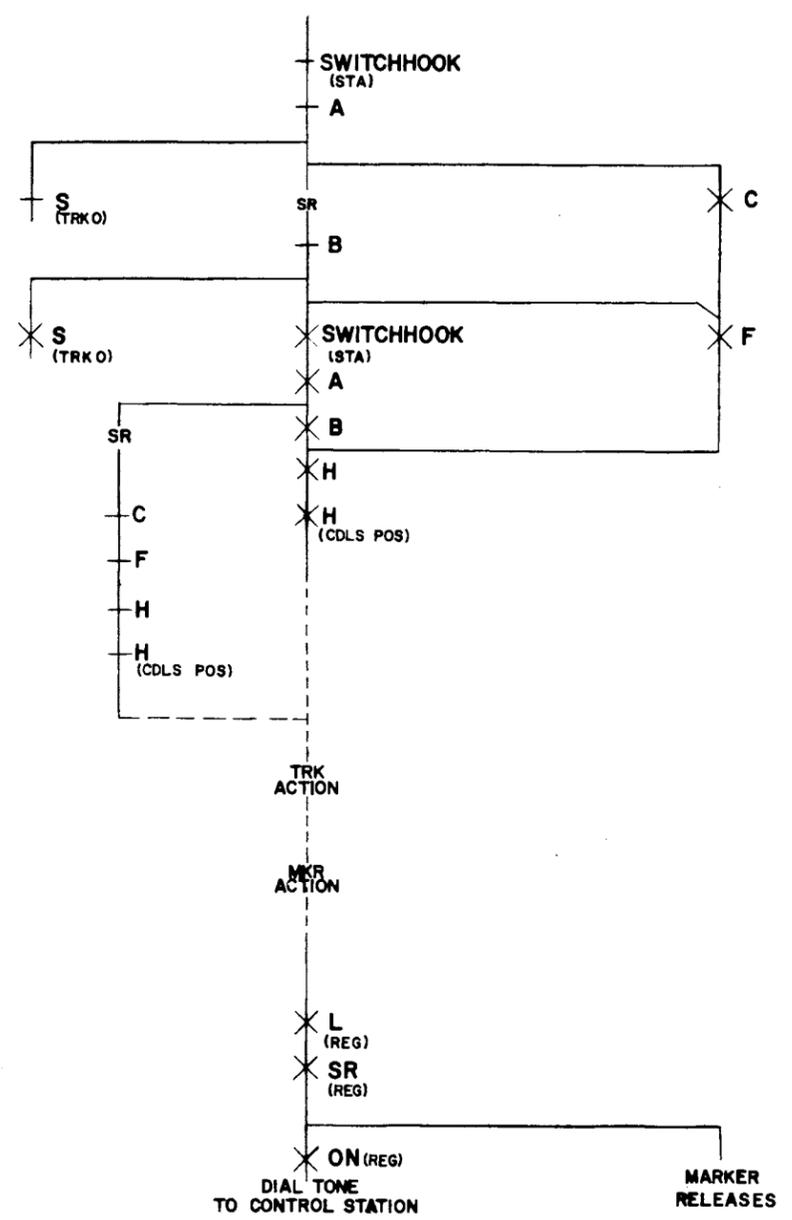
SC 5

CONTROL STATION DISCONNECTS TO TERMINATE CALL WITHOUT TRANSFER (PREVIOUS ACTION SHOWN ON SC 4)



SC 6

CONTROL STATION ESTABLISHES DIAL TONE CONNECTION (PREVIOUS ACTION SHOWN ON SC 4 OR SC 9)

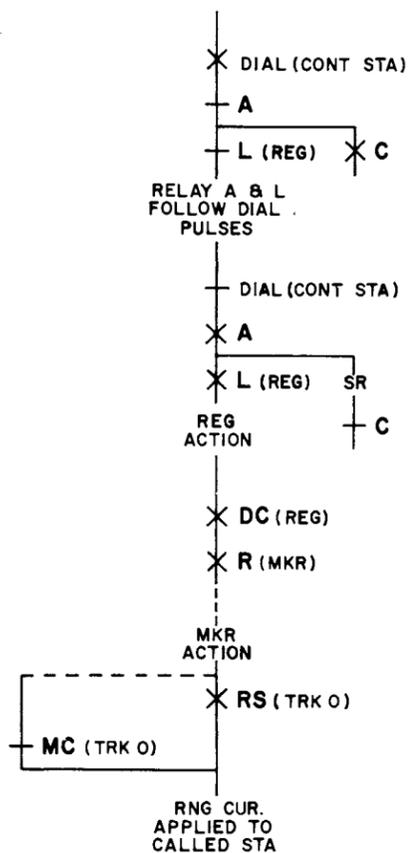


SHEET NOTES: 1. SC 1 TO 6 ASSUME CENTRAL OFFICE TRUNK O IS ASSOCIATED WITH THE LOO RELAY IN THE AUXILIARY POSITION CIRCUIT. 2. SC 4 & 5 ASSUME THE AUXILIARY POSITION CIRCUIT IS ASSIGNED TO MISC TRK TERMINATION 80.

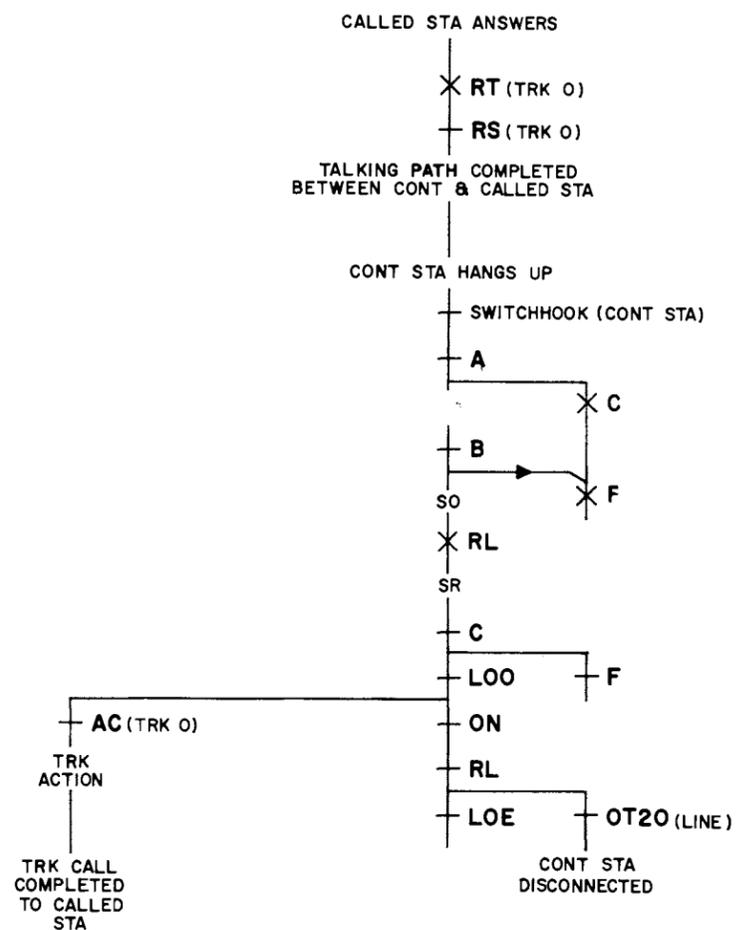
DRAWING ISSUE table with columns for issue number and names (JFF, KFL, EWE, SAK, KFJ). Includes a large number '2' in a box at the bottom right.

Technical specifications box: PBX SYSTEMS NO. 756A AUXILIARY POSITION CIRCUIT 2 SD-66910-01-E1 BELL TELEPHONE LABORATORIES INCORPORATED 65

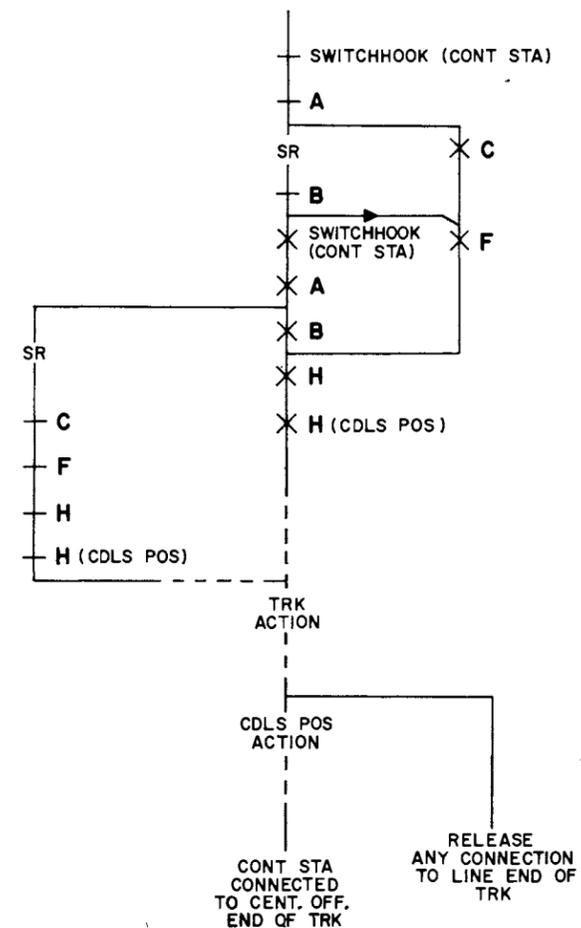
SC 7
CONTROL STATION DIALS AN IDLE STATION
(PREVIOUS ACTION SHOWN IN SC 6)



SC 8
CALLED STATION ANSWERS AND CONTROL STATION
TRANSFERS CALLED STATION TO TRUNK CALL
(PREVIOUS ACTION SHOWN IN SC 7)



SC 9
CONTROL STATION RETURNS TO TRUNK CALL
(PREVIOUS ACTION SHOWN IN SC 6 OR 7)



DRAWING
ISSUE
1

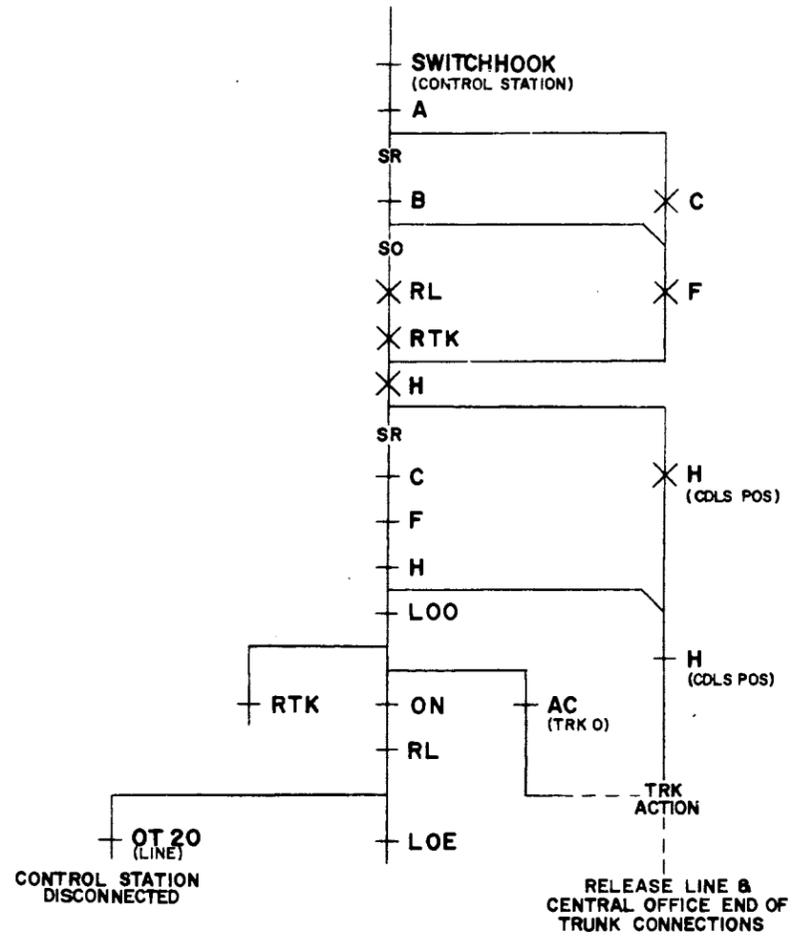
SD-66910-01-E2

PBX SYSTEMS NO. 756A AUXILIARY POSITION CIRCUIT		SD-66910-01-E2
BELL TELEPHONE LABORATORIES INCORPORATED		

SC 10

CONTROL STATION DISCONNECTS WITHOUT
RELEASING LINE END TRUNK CONNECTION

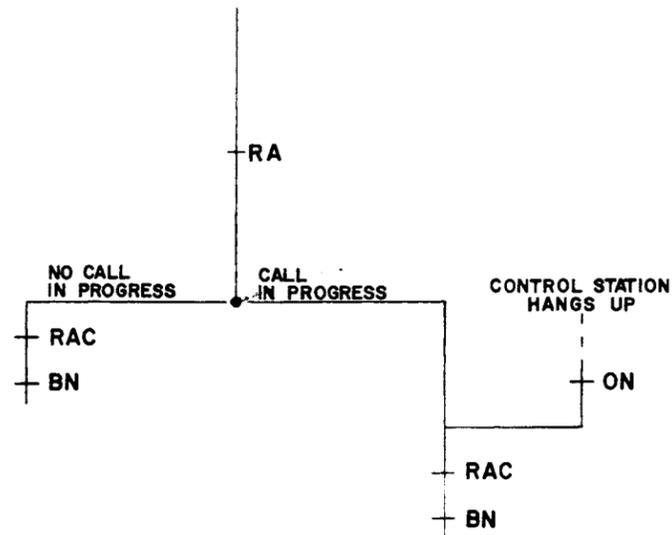
CONTROL STATION HANGS UP



SC 11

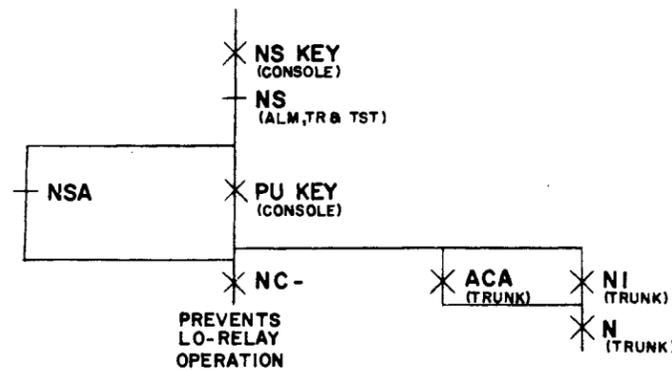
ATTENDANT RELEASES REMOTE
ANSWER CONNECTIONS

CORDLESS POSITION CIRCUIT
REMOVES GROUND FROM RA LEAD



SC 12

ATTENDANT ESTABLISHES TRUNK
FLEXIBLE NIGHT CONNECTION



DRAWING
ISSUE

1
JFF
KFL

1

PBX SYSTEMS NO. 756A		SD-66910-01-E3
AUXILIARY POSITION CIRCUIT (2)		
BELL TELEPHONE LABORATORIES INCORPORATED		65 PRINTED IN U.S.A.

CIRCUIT REQUIREMENTS

DRAWING ISSUE

DRAWING ISSUE

DESIG	APPARATUS			MECH REQ			CIRCUIT PREPARATION				TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT					REMARKS
	CODE	OPT.	FIG.	BSP FIG.	CONT PRES	ARM. TRVL	BLOCK OR INSULATE	TEST CLIP DATA		TEST WDG			TEST FOR	AFTER SOAK MA	TEST MA	READJ MA		
								CONN BAT.	CONN GRD									
A	AJ59		1	37			(B) NO (B) NO	1L (A) 1L (A)	2U (A) 2U (A)	M M	1 1	P/S P/S	0 R	10.4 4	9.9 4.3			
B	AG41		1	264B			(ON) NO (ON) NO (ON) NO		U (B) U (B) U (B)	GRD GRD GRD			0 H R	FS FS FS	10.8 1.8 1.1	10.2 1.7 1.3		
BN	AF129		1	28					U (BN)	GRD	4		0	10	9.5			
C	AG21		1	282B					IU (C) IU (C) IU (C)	GRD GRD GRD	2.3 2.3 2.3	P P P	0 H R	FS FS FS	48.5 6 3.9	46 5.7 4.6		
F	1/2AK24		1	12					1L (F)	GRD			0	7.8	7.4	MOUNTED WITH (H)		
H	1/2AK24		1	12					IU (H)	GRD			0	7.8	7.4	MOUNTED WITH (F)		
LOO-9	AF79		1	205			(LOE) O	L REL TST	U REL TST	B/G			0	9.7	9.2			
LOE	AJ5		1	220					U (LOE)	GRD			0	13.3	12.6			
HC-EVEN	1/2 AK4		1	202			(NSA) O		1L REL TST	GRD			0	11.9	11.3	MOUNTED WITH ODD (LO-) RELAY		
HC-(ODD)	1/2 AK4		1	202			(NSA) O		IU REL TSE	GRD			0	11.9	11.3	MOUNTED WITH EVEN (LC-) RELAY		
NSA	AF129		1	28					U (NSA)	GRD	4		0	10	9.5			
ON	AF112		1	268			11M(ON)		U (ON)	GRD			0	35.5	33.5			
RA	AF115		1	274			(RAC) NO		U (RA)	GRD			0	7.1	6.7			
RAC	AJ5		1	220			(LOE) O		U (RAC)	GRD	4,5		0	13.3	12.6			
RL	AF134		1	230					U (RL)	GRD			0	10.3	9.8			
RTK	AF50		1	18					U (RTK)	GRD			0	23.5	22			
SIG	AF60		1	8					U (SIG)	GRD			0	6.6	6.2			

1 SAK
OFF
KFL

1 SAK
OFF
KFL

- TEST NOTES:
1. ARMATURE BACK TENSION MINIMUM 20 GRAMS READJUST, 15 GRAMS TEST.
 2. ARMATURE BACK TENSION MAXIMUM 30 GRAMS READJUST, 85 GRAMS TEST.
 3. REQUIREMENTS APPLY TO PRIMARY WINDING WITH SECONDARY WINDING SHORT-CIRCUITED.
 4. TEST WITH NIGHT SERVICE KEY (AT 6 BUTTON KEY TELEPHONE SET OR IN CORDLESS POSITION) RELEASED.
 5. TEST DURING LIGHT PERIODS OF TRAFFIC ONLY.

SD-66910-01-F1

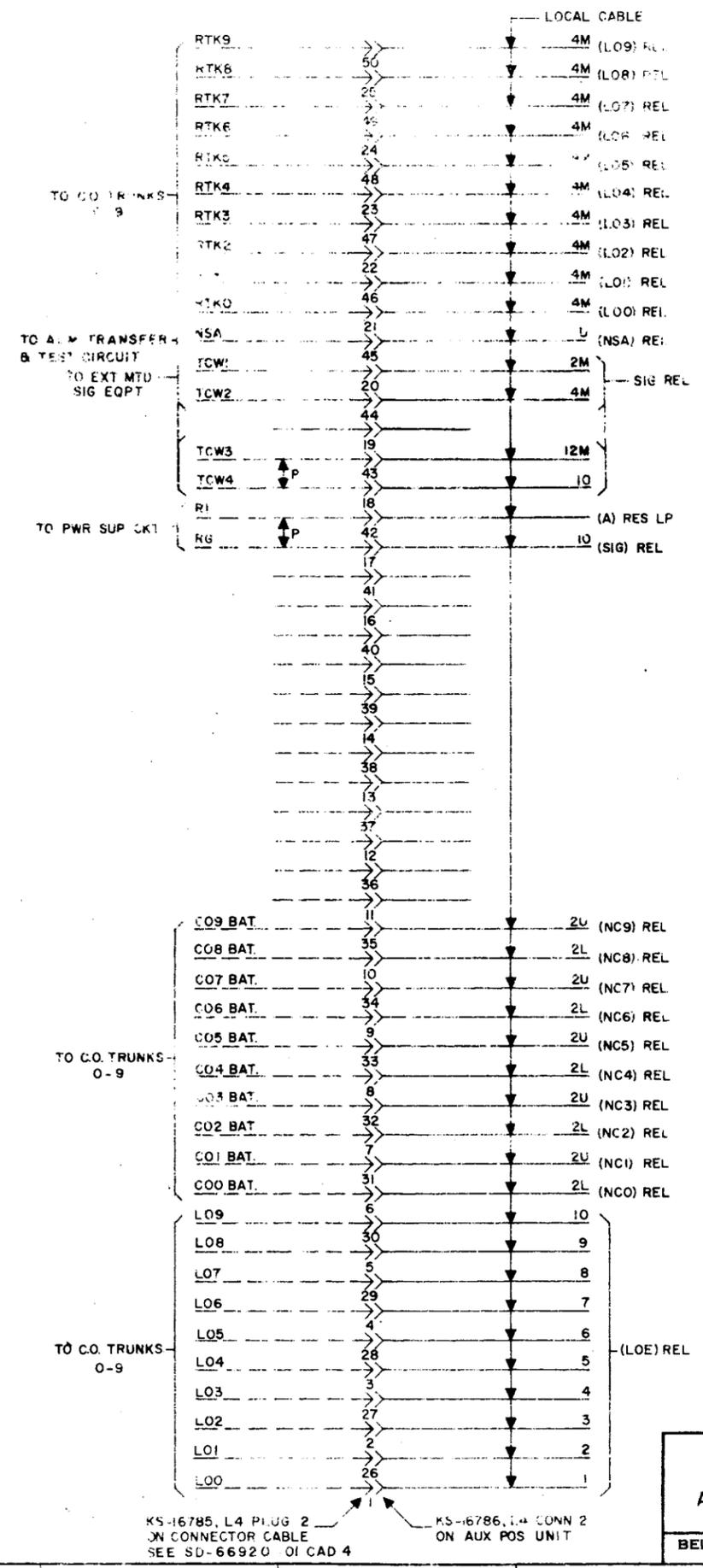
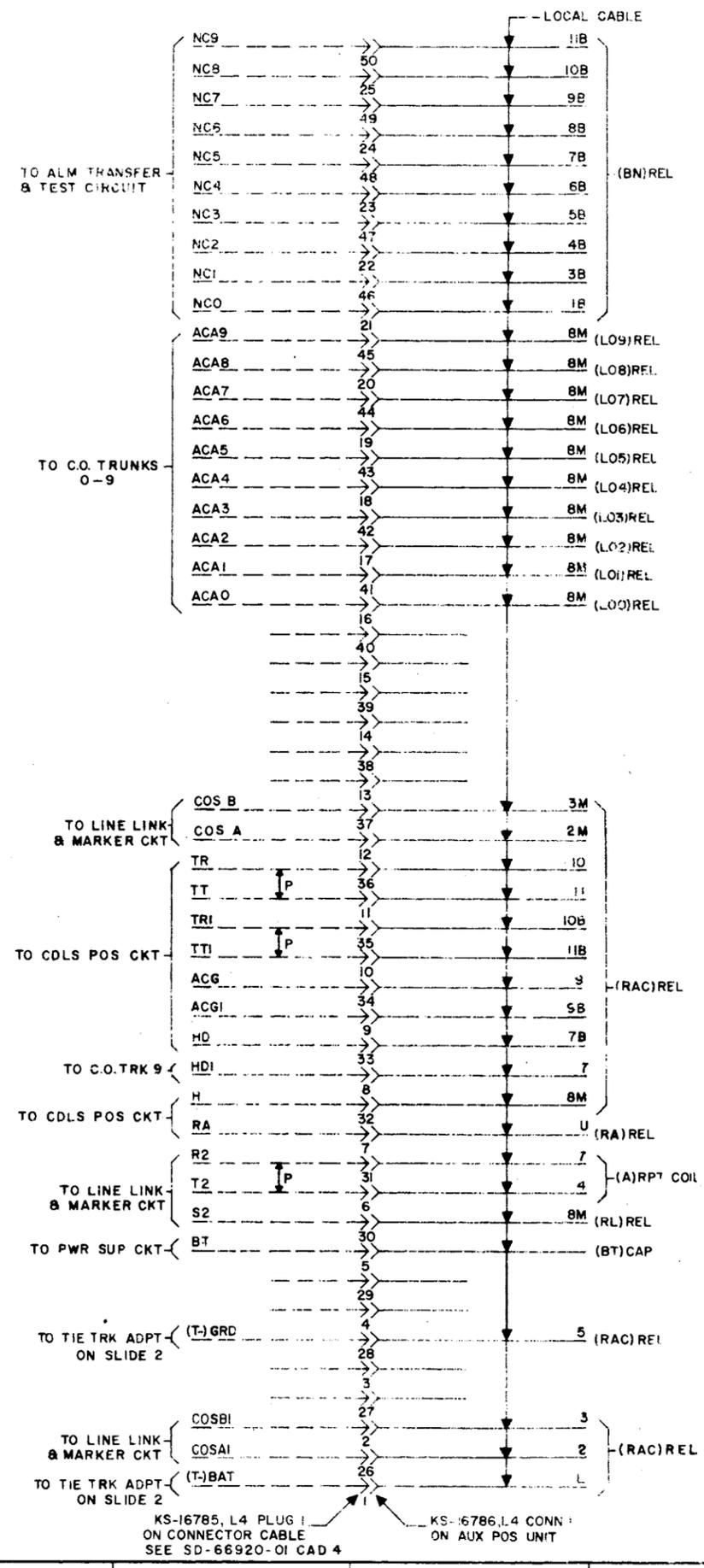
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PBX SYSTEMS NO. 756A AUXILIARY POSITION CIRCUIT	SD-66910-01-F1
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CAD 1
(FOR APP FIG 1)
REMOTE TRUNK ANSWERING FEATURE

DRAWING ISSUE
1 RKU
2D JFF
3 EWE
4D SAK
5 KFJ
6 ROZ
7 R/S
8 R/P

A
B
C
D
E
F
G
H



KS-16785, L4 PLUG 1 ON CONNECTOR CABLE SEE SD-66920-01 CAD 4
KS-16786, L4 CONN 1 ON AUX POS UNIT

KS-16785, L4 PLUG 2 ON CONNECTOR CABLE SEE SD-66920-01 CAD 4
KS-16786, L4 CONN 2 ON AUX POS UNIT

AUXILIARY POSITION CIRCUIT SD-66910-01-G1

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