

SHEET INDEX

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SUPPORTING INFORMATION

CATEGORY	NO.
756A PBX CABLING 756A PBX EQUIP	SD-65746-01 J58829AA-() J58829AB-()

DWG ISSUE	CD ISSUE	DATE ISSUED	DRN	APP D
1	1	10-25-61	JJTS	TEB
2D	2D	1-25-62	M.S.	WVS
3D	2D	4-10-62	R.T.	PB
4D	APP 2D	4-10-62	WVH	P.D.
5A	2D	4-10-62	R.T.	PB
6B	3B	10-18-66	WVH	P.D.
7B	3B	10-23-67	BCM	HED
	APP 1B		PJS	LAH
			UT	RHP
			ROZ	RHB
			RHO	RHP

SHEET INDEX NOTES

- WHEN CHANGES ARE MADE IN THIS DRAWING, ONLY THOSE SHEETS AFFECTED WILL BE REISSUED.
- 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.
- THE ISSUE NUMBER ASSIGNED TO A CHANGED OR NEW SHEET WILL BE THE SAME ISSUE NUMBER AS THAT OF THE SHEET INDEX.
- SHEETS THAT ARE NOT CHANGED WILL RETAIN THEIR EXISTING ISSUE NUMBER.
- THE LAST ISSUE NUMBER OF THE SHEET INDEX IS RECOGNIZED AS THE LATEST ISSUE NUMBER OF THE DRAWING AS A WHOLE.

SD-65942-01	1J07	7
PBX SYSTEMS	AT&TCO STANDARD	
NO. 756A AUXILIARY RELAY CIRCUIT FOR DIRECT STATION SELECTION FROM STATIONS (AUX REL DSS)		SD-65942-01-1 10 SHEETS
BELL TELEPHONE LABORATORIES INCORPORATED	65	

SD-65942-01-1

CIRCUIT NOTES:

101.	DESIG	FUSE AMP	POTENTIAL	ONE PER
	DSS	1-1/3	-48V	PBX
	DSS	.100	+48V	PBX
BATTERY SYMBOL		VOLTAGE RANGE		
-48		45-52V		
+48		40-60V		

102.	FEATURE OR OPTION	PROVIDE	
		FIG.	QUANTITY
	REGISTER AUXILIARY	1	ONE PER PBX
	STATION CONNECTOR	2	ONE PER LINE ARRANGED FOR DSS
	KEY RELAYS	3	ONE PER TWO LINES ARRANGED FOR DSS
	UNITS AND TENS DIODES	4	ONE PER KEY PER LINE ARRANGED FOR DSS
	KEY DIODES	5	ONE PER KEY PER LINE ARRANGED FOR DSS

103. NETWORK VALUES		
NETWORK NO.	RESISTANCE IN OHMS	CAPACITANCE IN UF

104. RECORD OF FIGURES, WIRING AND APPARATUS CHANGES						
CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT		
				STD	A&M	MD
6B	Z OR Y	Z		Y		Z
7B	X OR W	X		W		X
7B	V	NONE		V		

EQUIPMENT NOTES:

202. CROSS CONNECT WIRING TO BE DRESSED BACK TO PROVIDE A LOOP TO PERMIT REMOVAL OF DIODES (T-) AND (U-) ASSEMBLIES TO REPLACE DIODES IF NECESSARY.

INFORMATION NOTES:

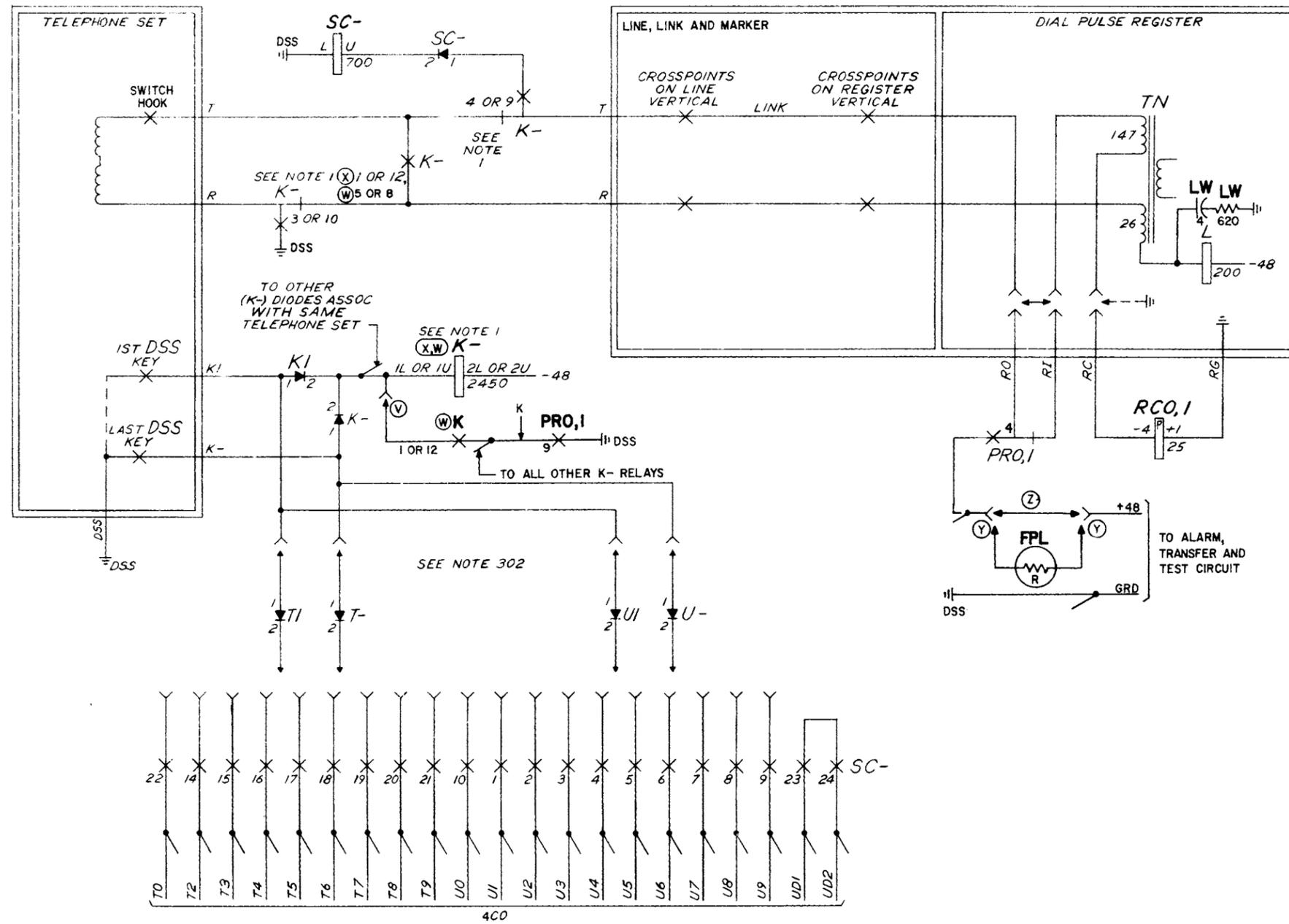
- 301. UNLESS OTHERWISE SPECIFIED: RESISTANCE VALUES ARE IN OHMS, CAPACITANCE VALUES ARE IN MICROFARADS. VALUES PRECEDED BY THE SYMBOL + (PLUS) OR - (MINUS) ARE IN VOLTS.
- 302. CONNECT THE (T-) AND (U-) DIODES ASSOCIATED WITH A DSS KEY TO THE T0-T9 LEADS AND U0-U9 LEADS, RESPECTIVELY CORRESPONDING TO THE TENS AND UNITS DIGIT OF THE DIRECTORY NUMBER OF THE TRUNK OR STATION TO BE SELECTED BY THE KEY.

WORKING LIMITS
MAX RES OF CIRCUIT PATH FOR SATISFACTORY OPERATION OF RELAY SC IS 125 OHMS.

AUXILIARY RELAY CIRCUIT		SD- 65942 - 01-2
BELL TELEPHONE LABORATORIES INCORPORATED		6S PRINTED IN U.S.A.

1	VGS
	JTS
	TEG
2D	R.T.
	M.S.
	P.D.
3D	R.T.
	WVH
	P.D.
6B	BCN
	P.S.
	RHF
7B	ROZ
	P.S.
	RHF

FS 1
STATION AUXILIARY RELAY CIRCUIT



SHEET NOTES:

1. SPRINGS 1-5 AND COIL TERMINALS 1L & 2L OF RELAY (K) ARE ASSOCIATED WITH THE EVEN NUMBERED CIRCUIT OF THE UNIT. SPRINGS 8 TO 12 AND COIL TERMINALS 1U & 2U ARE ASSOCIATED WITH THE ODD NUMBERED CIRCUIT OF THE UNIT.

DRAWING ISSUE	
1	RAH
	UTB
	R.T.
3D	WVH
	P.D.
5A	R.T.
	WVH
	P.D.
6B	BCN
	RHS
	RHE
7B	ROZ
	RYS
	RHE

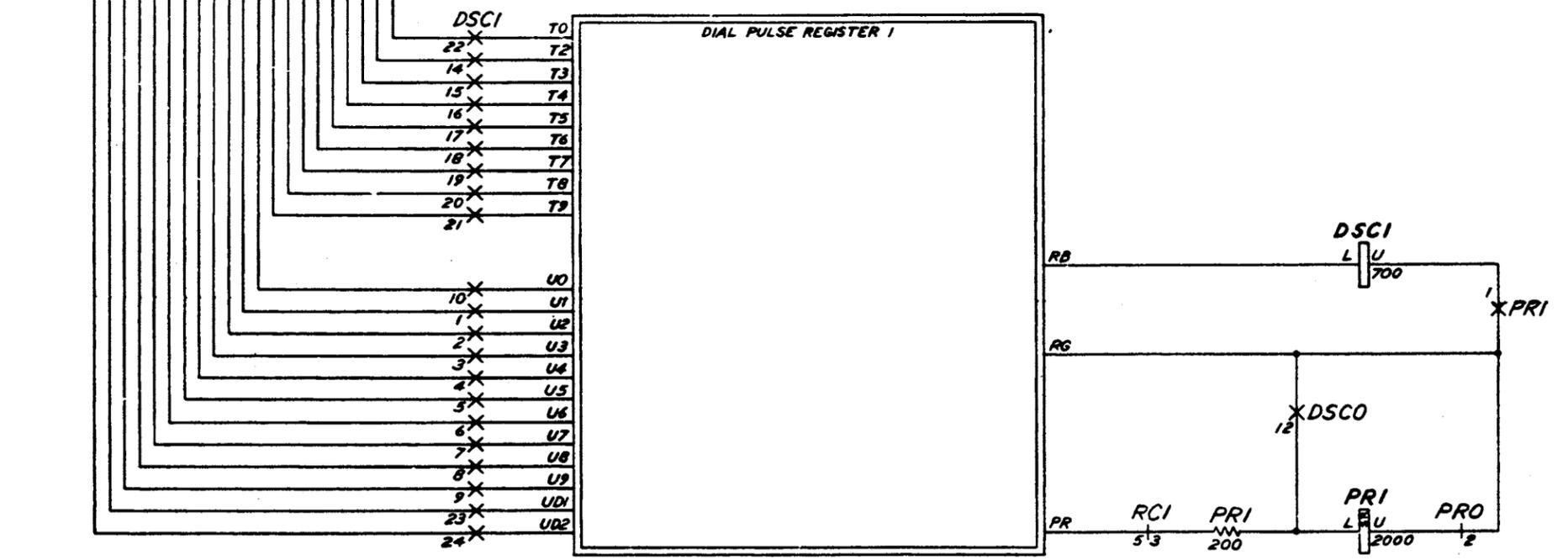
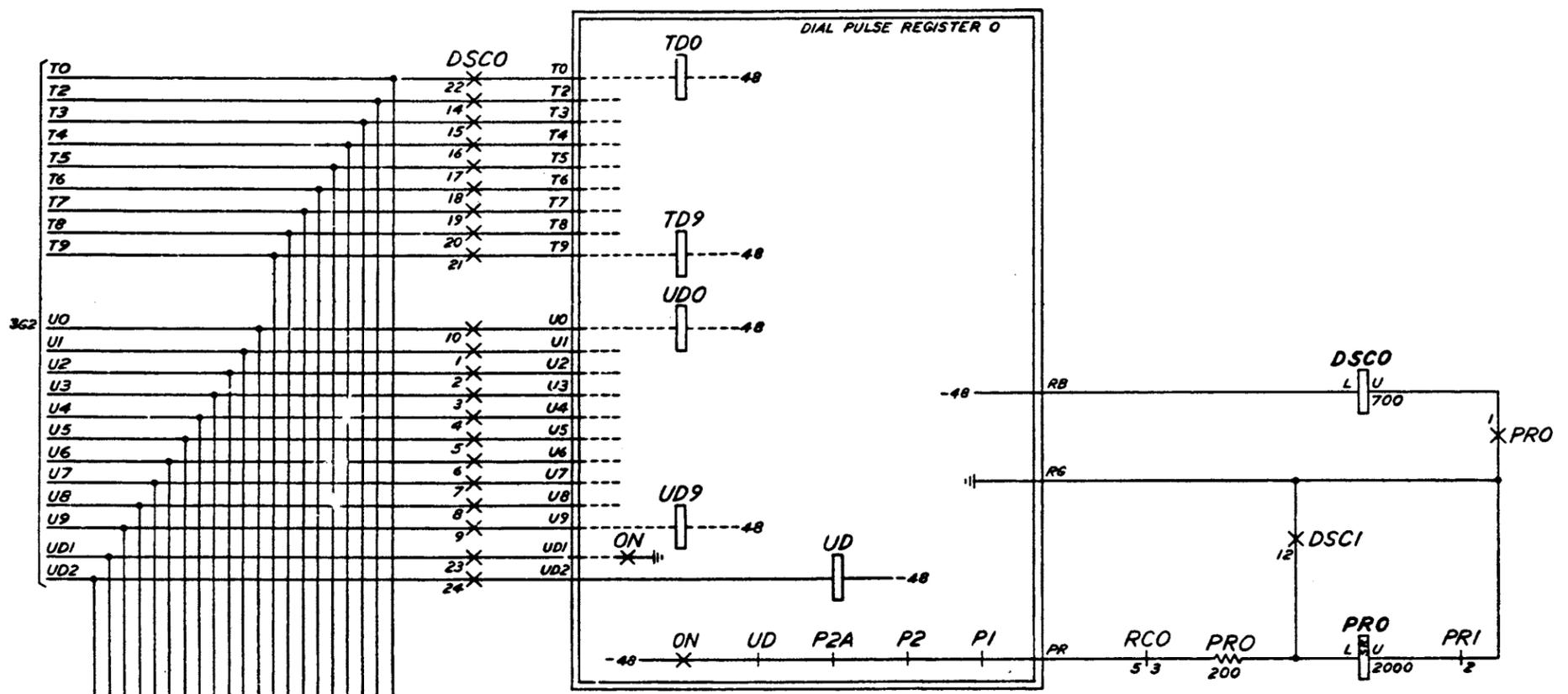
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AUXILIARY RELAY CIRCUIT	SD-65942-01-3
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JD-65942-01-3

FS 2
REGISTER AUXILIARY RELAY CIRCUIT

DRAWING	1
ISSUE	1
REV.	1
DATE	1/20/55
BY	W.P.D.
CHKD	B.C.M.
APP'D	R.S.
REV.	44



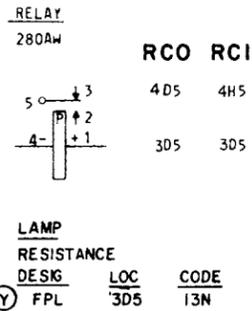
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AUXILIARY RELAY CIRCUIT	SD-65942-01-4
BELL TELEPHONE LABORATORIES INCORPORATED	65

APP FIG. 1

RELAY		
DESIG	DSCO	DSC1
CODE	AJ202	AJ202
OPTION		
24	4A2	4E2
23	4A2	4E2
22	4A2	4E2
21	4A2	4E2
20	4A2	4E2
19	4A2	4E2
18	4A2	4E2
17	4A2	4E2
16	4A2	4E2
15	4A2	4E2
14	4A2	4E2
13		
12	4G5	4D5
11		
10	4A2	4E2
9	4A2	4E2
8	4A2	4E2
7	4A2	4E2
6	4A2	4E2
5	4A2	4E2
4	4A2	4E2
3	4A2	4E2
2	4A2	4E2
1	4A2	4E2
COIL	4C6	4F6

RELAY									
DESIG	PRO			PR1					
CODE	AG20			AG20					
OPTION	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	
ARR			ARR		ARR		ARR		
12	M		M						
11	M		M						
10	EBM		EBM						
9	M	3D2	M	3D2					
8	EMB		EMB						
7									
6	EMB		EMB						
5									
4	EBM	3D5	EBM	3D5					
3	M		M						
2	EBM	4H6	EBM	4D6					
1	M	4C6	M	4F6					
COIL		4D6		4H6					



RESISTOR		
DESIG	LOC	CODE
PRO	4D5	18G
PR1	4H5	18G

APP FIG. 2

RELAY		
DESIG	SC-	
CODE	AJ202	
OPTION		
24	3F4	
23	3F4	
22	3F4	
21	3F4	
20	3F4	
19	3F4	
18	3F4	
17	3F4	
16	3F4	
15	3F4	
14	3F4	
13		
12		
11		
10	3F4	
9	3F4	
8	3F4	
7	3F4	
6	3F4	
5	3F4	
4	3F4	
3	3F4	
2	3F4	
1	3F4	
COIL	3A1	

DIODE		
DESIG	LOC	CODE
SC-	3A2	400J

APP FIG. 3

RELAY									
DESIG	K-		K-		K-		K-		
CODE	AK4		AK4		AK49		AK49		
OPTION	X		X		W		W		
CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC
ARR		ARR		ARR		ARR		ARR	
12			M	3B2			M	3D2	
11			EBM				EBM		
10			EBM	3B1			EBM	3B1	
9			EMB	3B2			EMB	3B2	
8			EMB				EMB	3B2	
7									
6									
5	EMB				EMB	3B2			
4	EMB	3B2			EMB	3B2			
3	EBM	3B1			EBM	3B1			
2	EBM				EBM				
1	M	3B2			M	3D2			
COIL		3C2		3C2		3C2			3C2

APP FIG. 4

DIODES		
DESIG	LOC	CODE
T-	3E1	400J
U-	3E3	400J

APP FIG. 5

DIODES		
DESIG	LOC	CODE
K-	3C1	400J

SD-65942-01-5

AUXILIARY RELAY CIRCUIT

SD-65942-01-5

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CIRCUIT REQUIREMENTS

NO. 759A DIAL COMMUNICATING SYSTEM AND NO. 756A AUXILIARY RELAY CIRCUIT

APPARATUS				MECH REQ			CIRCUIT PREPARATION				TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQ					REMARKS
DESIG	CODE	OPT	FIG	BSP FIG	CONT PRESS	ARM TRVL	BLOCK OR INSULATE	TEST CLIP DATA		TEST WDG			TEST FOR	AFTER SOAK MA	TEST MA	READJ MA		
RELAYS								CONN BAT.	CONN GRD									
DSCO,1	AJ202		1	500				U	REL TST	GRD			0	42.5	40.5			
K-	1/2AK4	X	3	202				1U	REL TST	GRD			0	11.9	11.3	FOR ODD NUMBERED		
K-	1/2AK49	W	3	224				1U	REL TST	GRD			0	11.9	11.3	CKT ON UNIT		
K-	1/2AK4	X	3	202				1L	REL TST	GRD			0	11.9	11.3	FOR EVEN NUMBERED		
K-	1/2AK49	W	3	224				1L	REL TST	GRD			0	11.9	11.3	CKT ON UNIT		
PRD,1	AG20		1	262B				L	REL TST	U	REL TST	B/G	0	10.7	10.2			
													H	2	1.9			
													R	0.9	1.1			
RCO,1	280AW		1	B				4	REL TST		BAT.		0	-50	1.1			
													ND	-50	0.8			
													0	-50	13.5	12.8		
													R	50	5.4	5.7		
SC-	AJ202		2	500				U	REL TST		BAT.		0	42.5	40.5			

DRAWING ISSUE
1
3D
6B
7B

DRA IS
1
3D
6B
7E

SD-65942-01-7

AUXILIARY RELAY CIRCUIT	SD-65942-01-7
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AUXILIARY RELAY CIRCUIT	SD-65942-01-7
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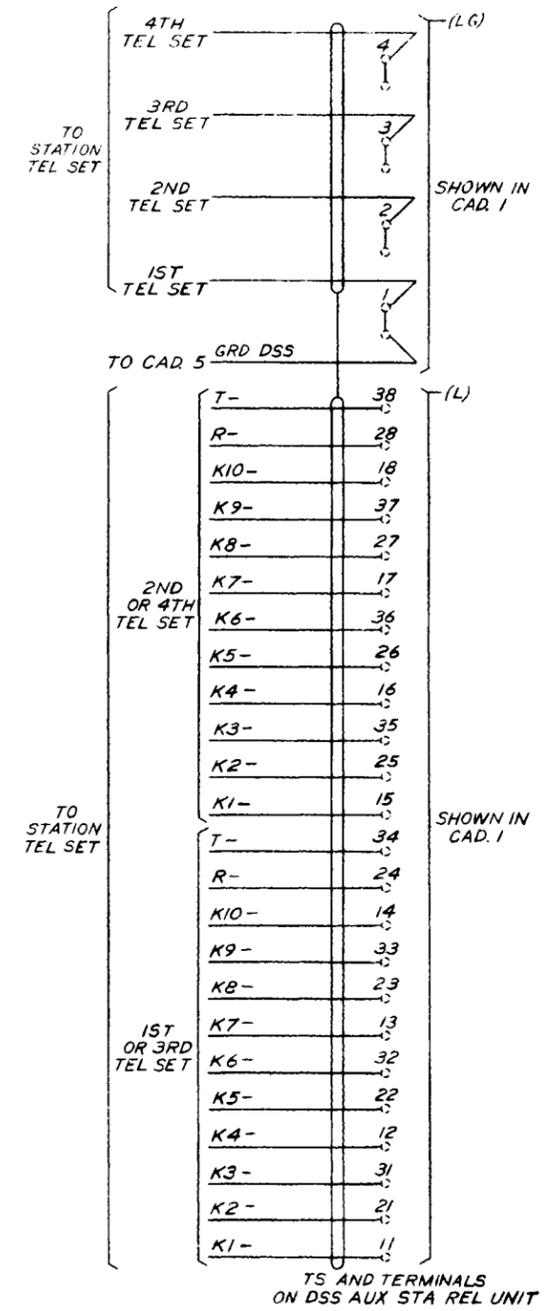
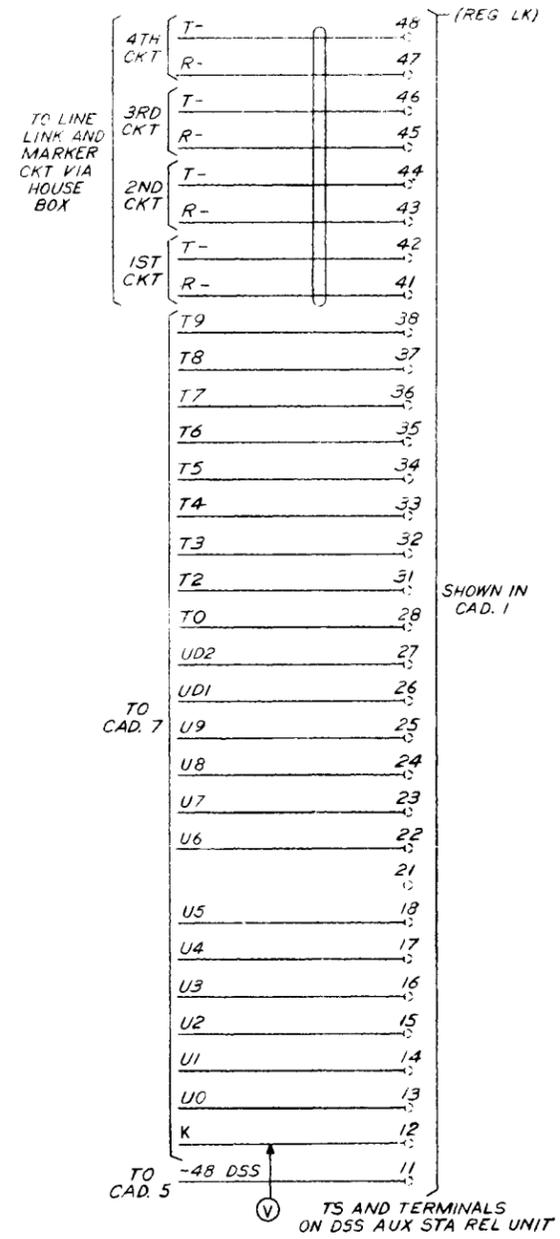
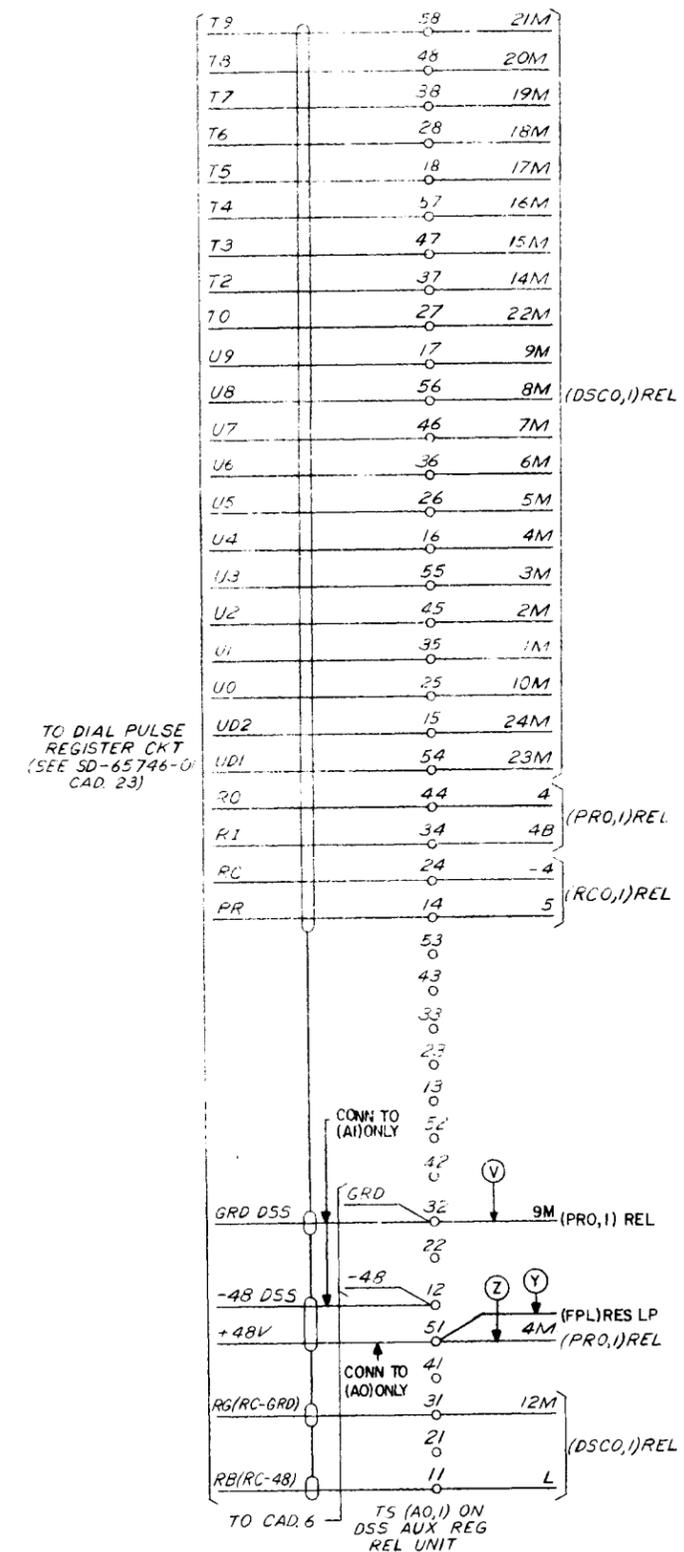
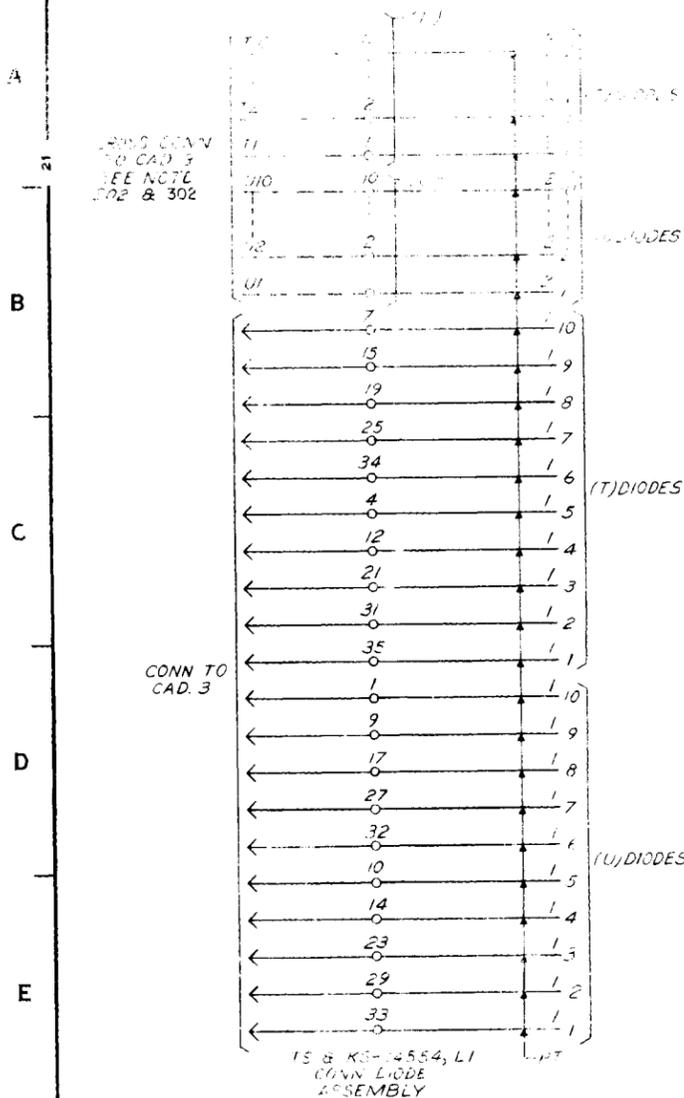
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CAD. 4 (A & M ONLY)
(FOR APP FIG. 4)

CAD. 5
(PART OF APP FIG. 1)

CAD. 6
(PART OF APP FIG. 2 & 3)

DRAWING	1
ISSUE	1
DATE	1/23
PT	
BY	WJH
CHKD	P.L.
68	RJS
RHP	
ROZ	
78	RJS
REP	



SD-65942-01-9

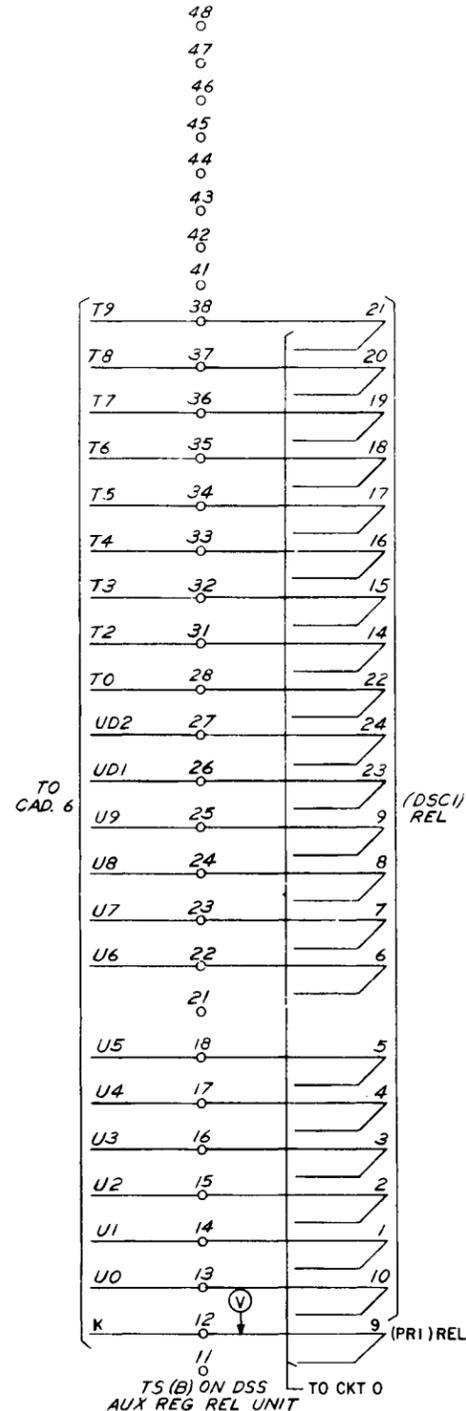
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AUXILIARY RELAY CIRCUIT

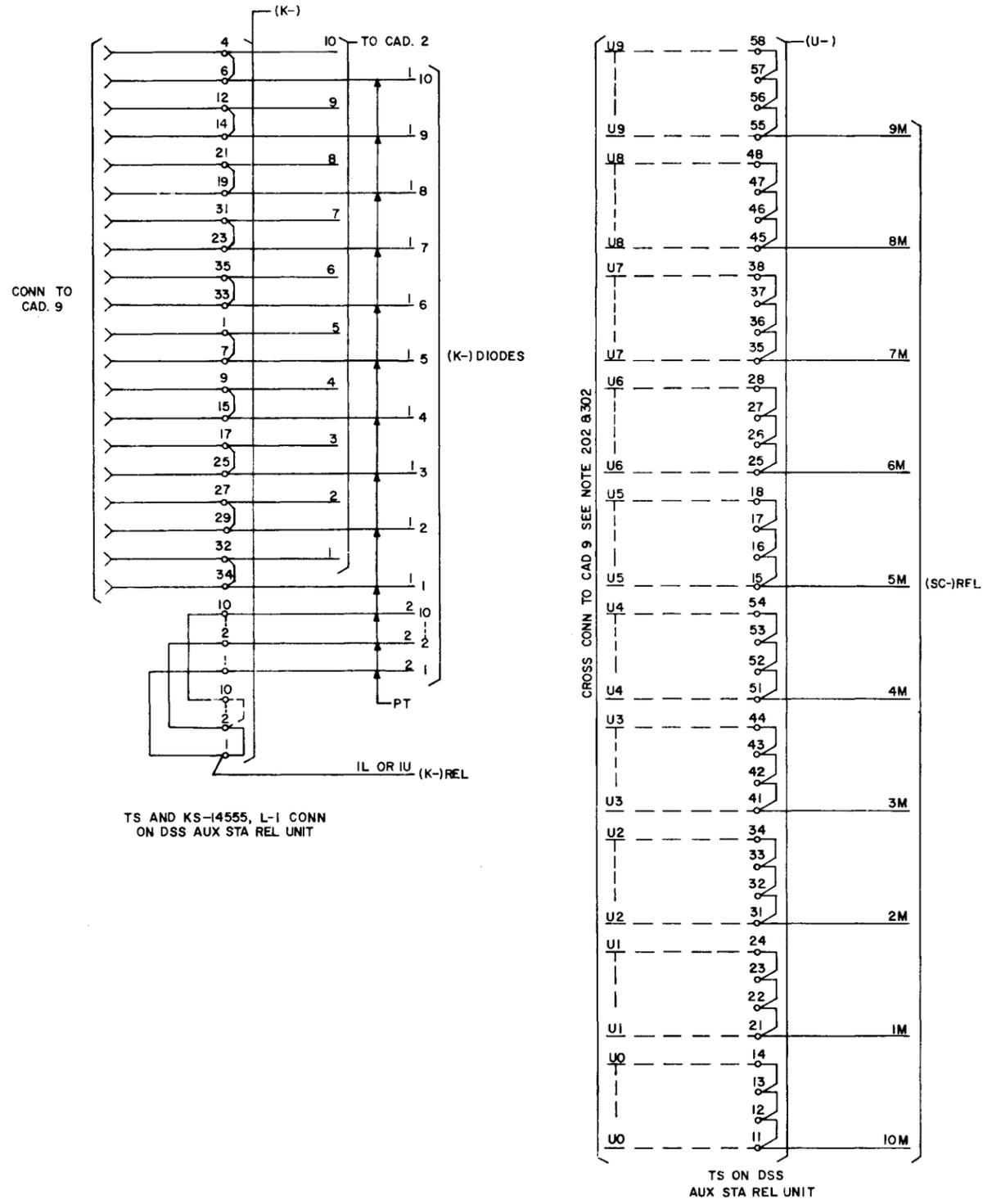
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6S

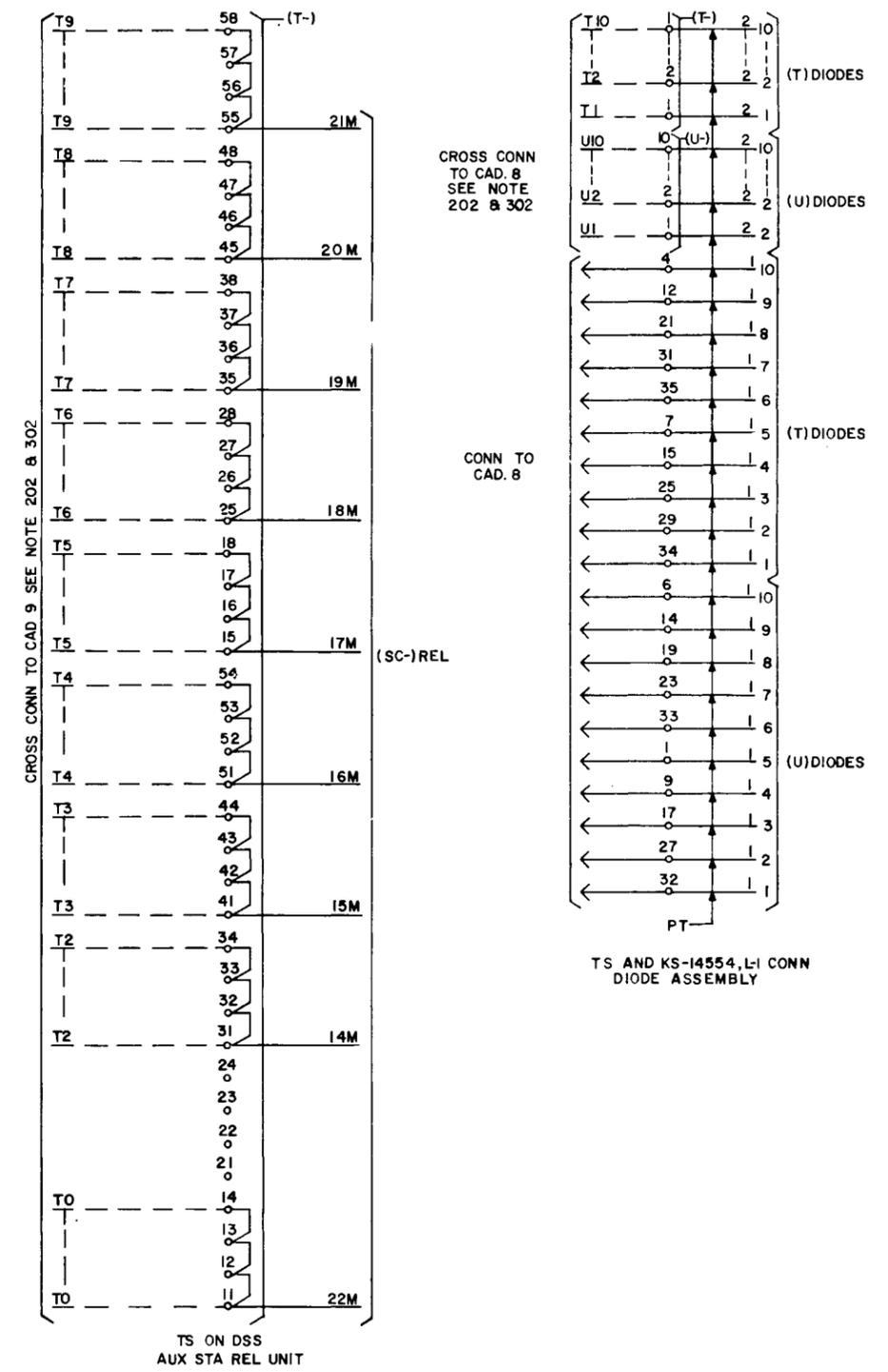
CAD. 7
(PART OF APP FIG. 1)



CAD 8
(PART OF APP FIG. 2)



CAD 9
(FOR APP FIG. 4)



ISSUE	
1	RAM
	JJS
	ZEB
	RT.
3D	WH
	P.D.
6B	BCM
	PJS
	RHE
7B	FOZ
	PJS
	RHE

7

AUXILIARY RELAY CIRCUIT		SD-65942-01-10
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