

[illegible]

CATEGORY	NO.
EQUIPMENT DRAWINGS:	J58831AE ED-65327-01 ED-65698-01 ED-65699-01 ED-66074-01 J531180 J531250 J53132AA J58831A J58831C J58831D J58831E J58831F J58831G J58831H J58831J J58831N J58831S J58837AF J58837AF J58837AG J58837AH J58837AJ J58837AK J58837AL J58837AP J58837AP J58837BE J58837BT J58837BU J58837BW J58837CN J580250
MAINTENANCE BSP	542-010-501

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.

NOT FOR USE OR
DISCLOSURE OUTSIDE
THE BELL SYSTEM
EXCEPT UNDER
WRITTEN AGREEMENT

ISSUE

5D

3J07

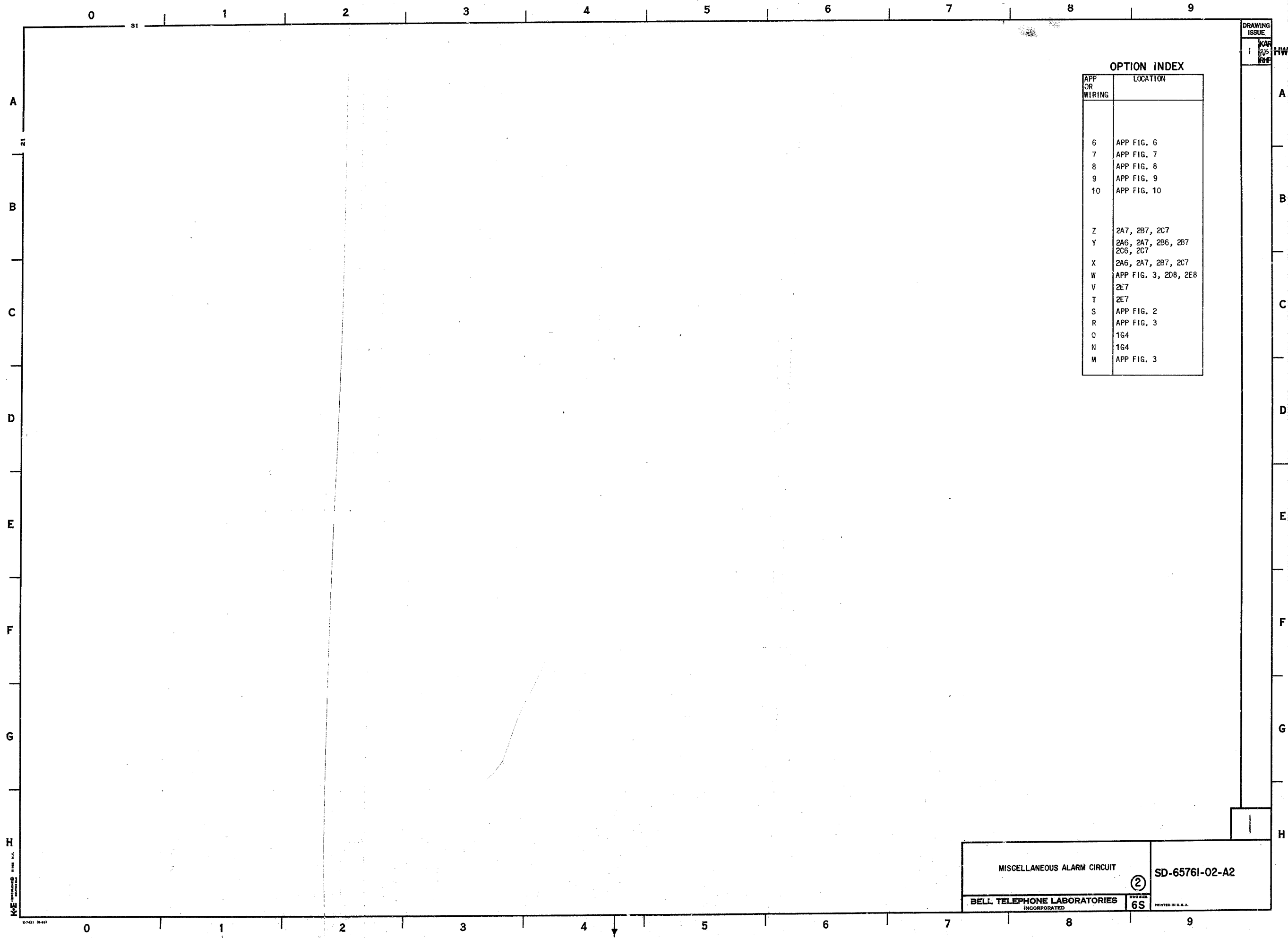
(MISC ALM) (2)

SD-65761-02-A1
15 SHEETS

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OPTION INDEX	
APP OR WIRING	LOCATION
6	APP FIG. 6
7	APP FIG. 7
8	APP FIG. 8
9	APP FIG. 9
10	APP FIG. 10
Z	2A7, 2B7, 2C7
Y	2A6, 2A7, 2B6, 2B7, 2C6, 2C7
X	2A6, 2A7, 2B7, 2C7
W	APP FIG. 3, 2D8, 2E8
V	2E7
T	2E7
S	APP FIG. 2
R	APP FIG. 3
Q	1G4
N	1G4
M	APP FIG. 3

DRAWING
ISSUE
i KAR HW
RFP

MISCELLANEOUS ALARM CIRCUIT

2

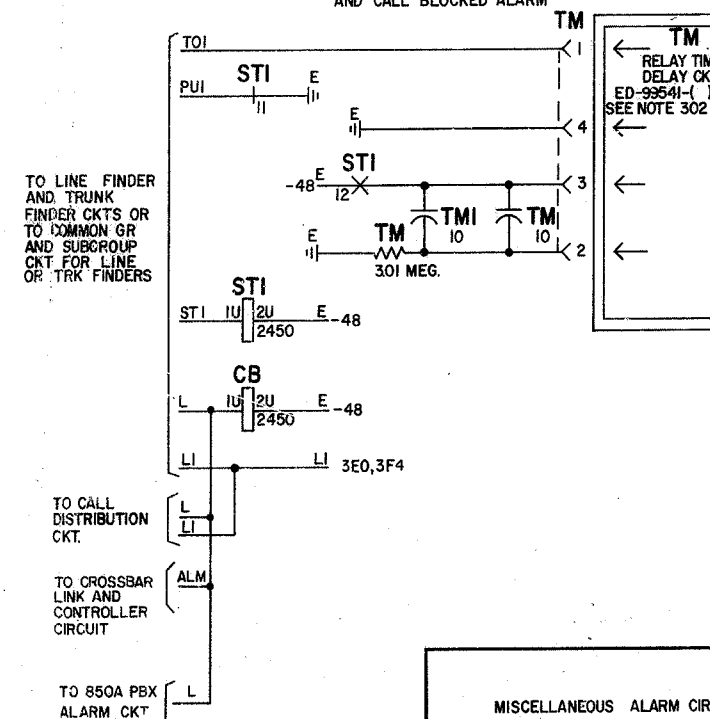
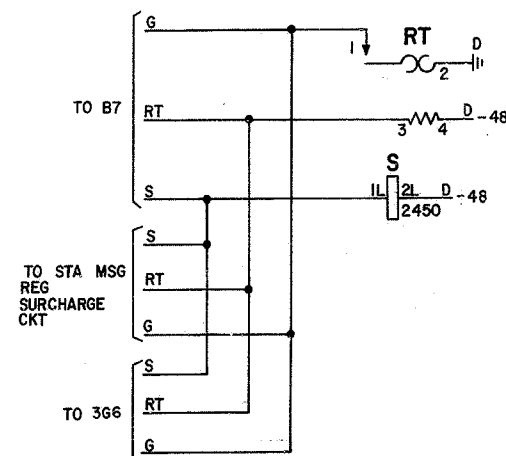
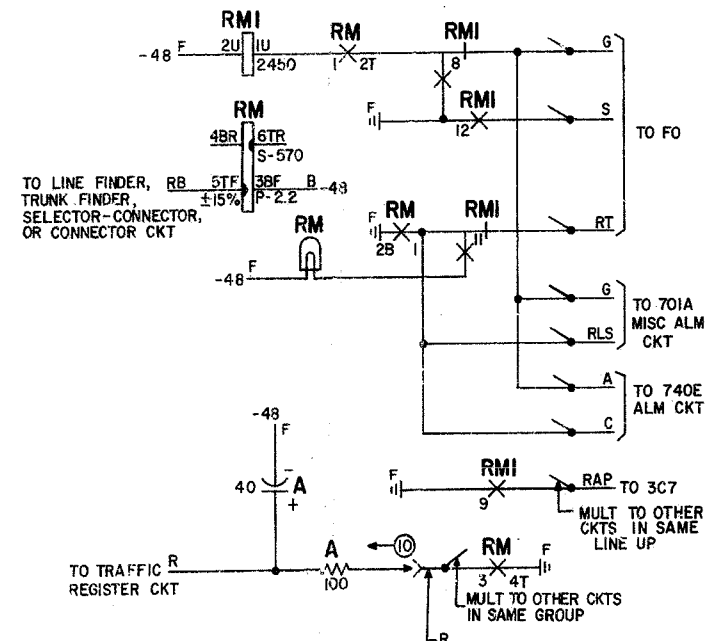
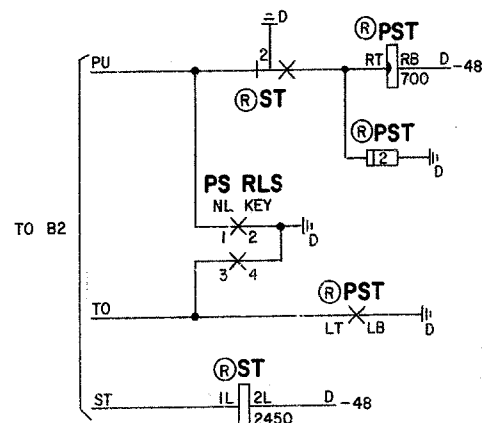
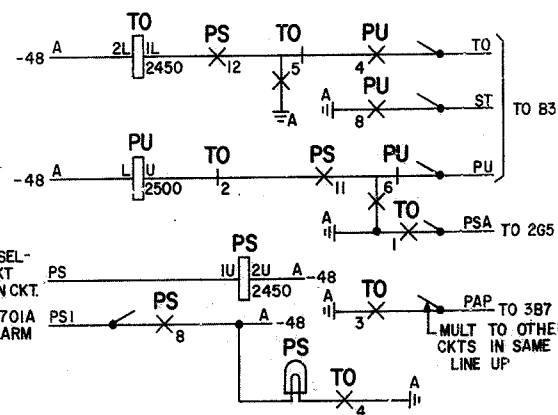
6S

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NEW YORK, N. Y.

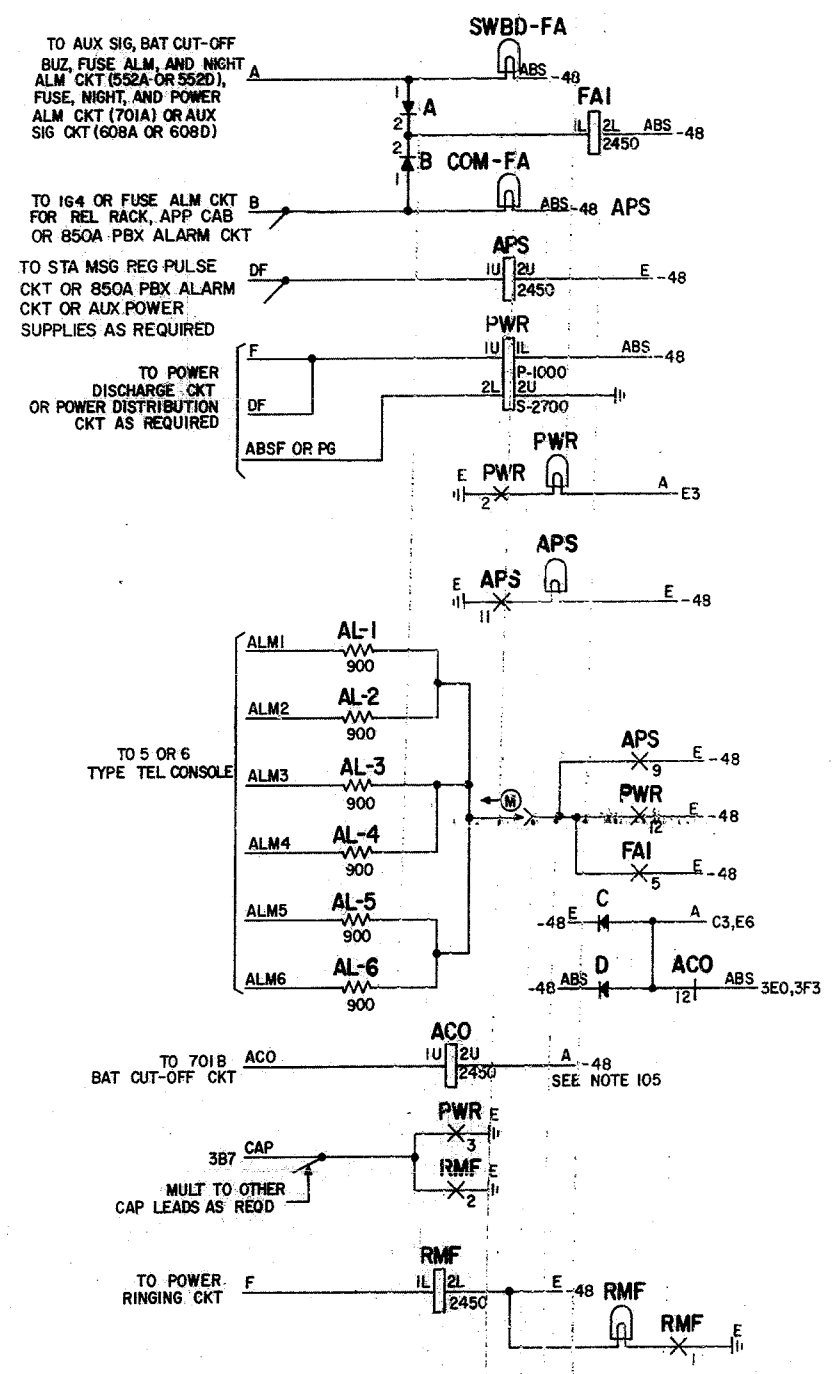


0 1 2 3 4 5 6 7 8 9

DRAWING
ISSUE
I
RJS
RFP
3D
HW
DR
A

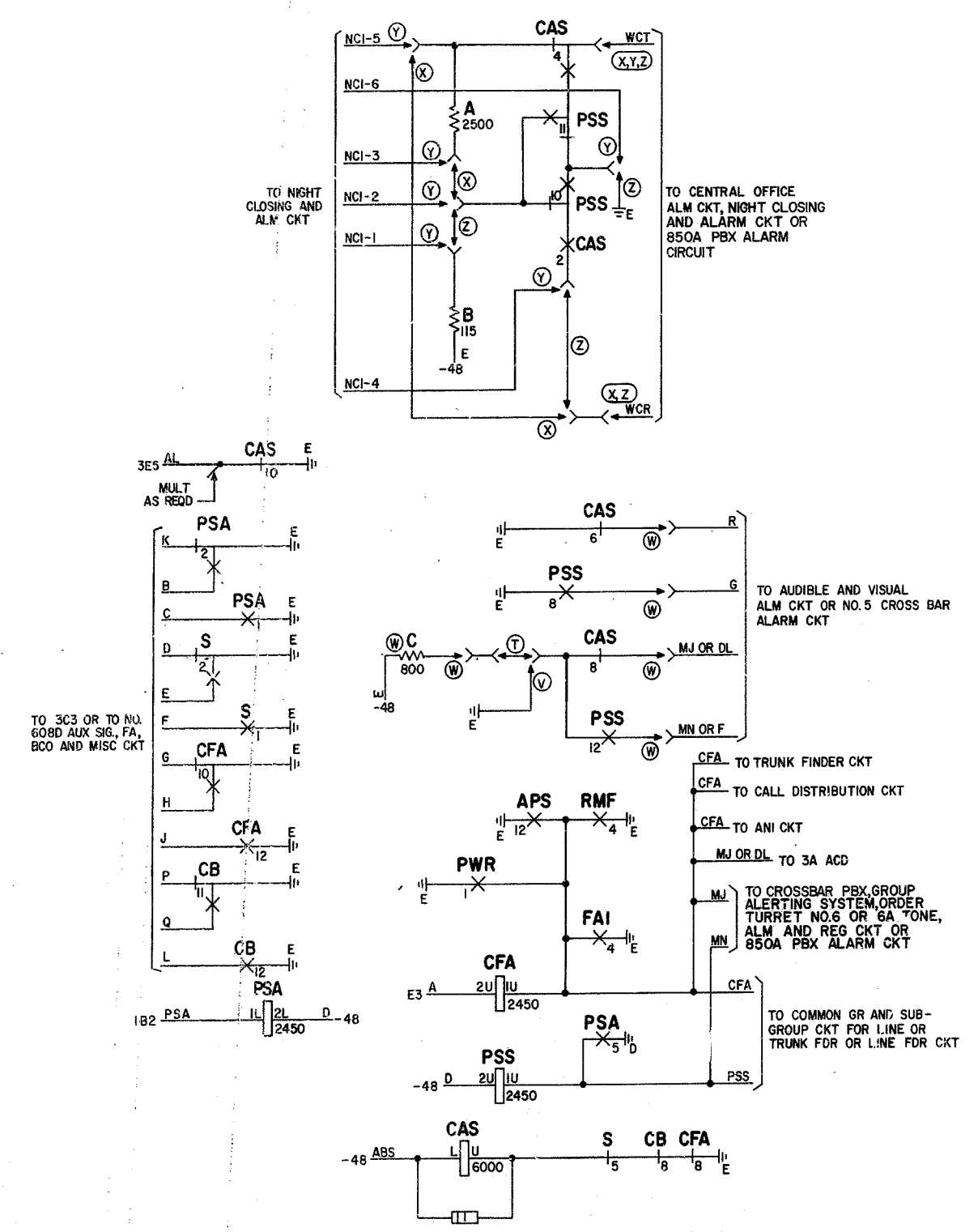
FS 7

COMMON FUSE-POWER
RINGING MACHINE ALARM AND ALARM
CUT-OFF CIRCUIT



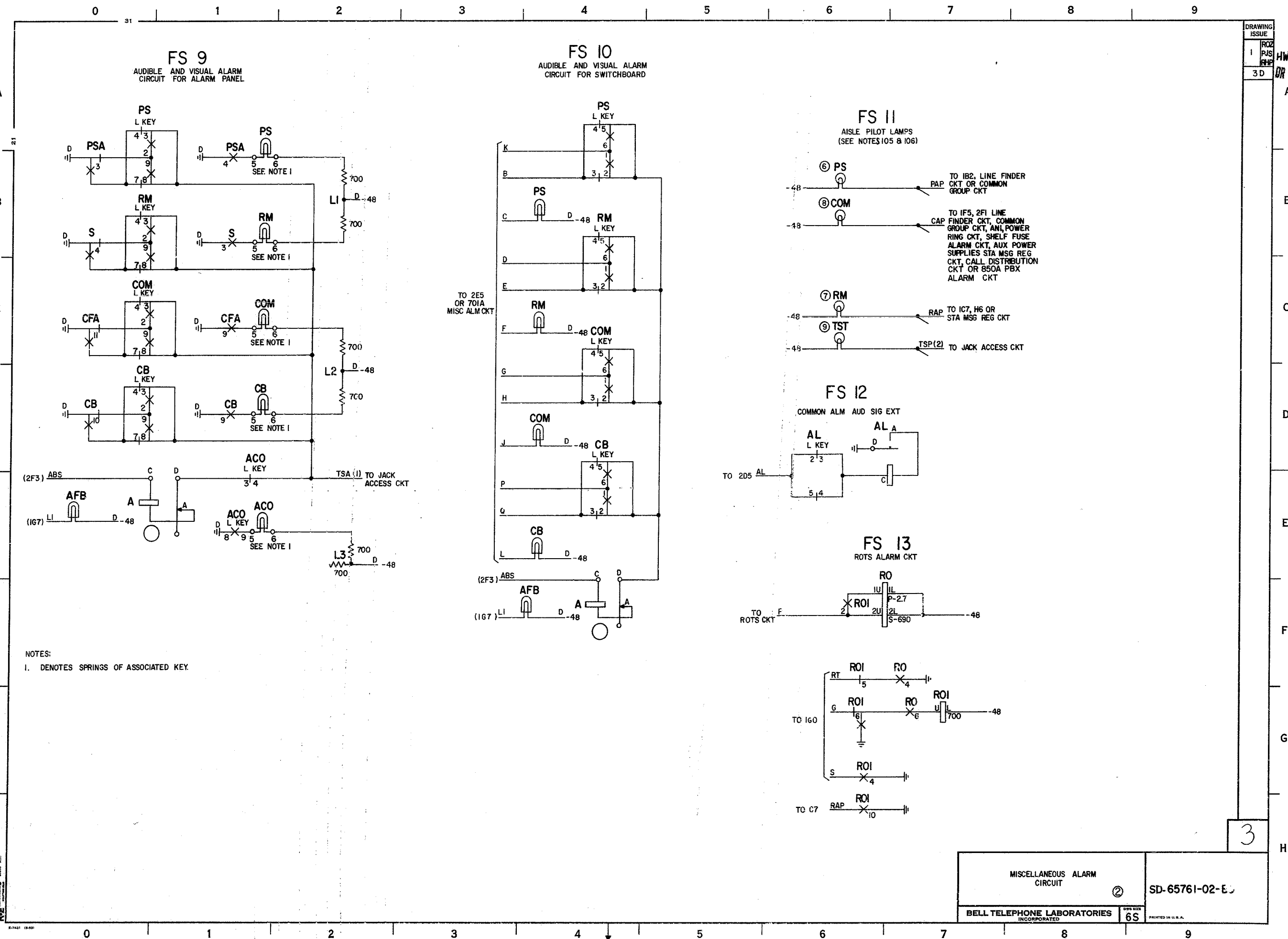
FS 8

COMMON MAJOR-MINOR
ALARM CIRCUIT



SD-65761-02-B2

3



SD-65761-02-B3

31 _____

0 31 1

6

3	4	5	6	7	8	9

0 31

3

4 5

6

31 _____

0 31 1

3 4

5 6

7

7

0 1

1

3

4

4 5

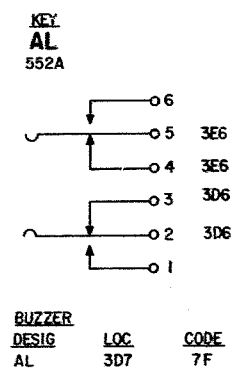
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6

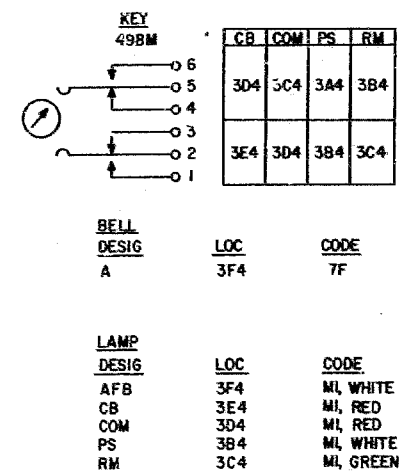
4

4 _____ 5 _____

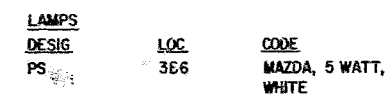
APP FIG. 4



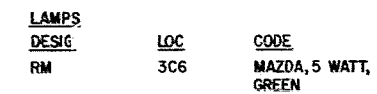
APP FIG. 5



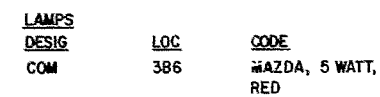
APP FIG. 6



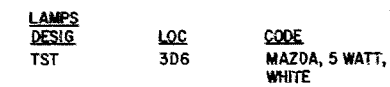
APP FIG. 7



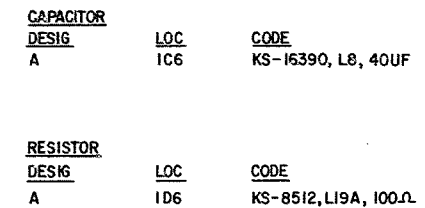
APP FIG. 8



APP FIG. 9



APP FIG. 10



APP FIG. 11

RELAY								
DESIG	RO			ROI				
CODE	AF97			AF156				
OPTION	CONT	LOC		CONT	LOC		CONT	LOC
ARR	ARR			ARR			ARR	
12								
11								
10				M	3H6			
9								
8	M			M				
7				B				
6	M	3G7		EMB	3G6			
5				B	3G6			
4	M	3G7		M	3G6			
3								
2				M	3F6			
1								
COIL		3F6		3G7				

CIRCUIT NOTES:

101.

DESIG	AMP	POTENTIAL FUSED	ONE PER
A	1-1/3	48V SIG	APP FIG 1
ABS	1-1/3	48V SIG	APP FIG 3
B	5	48V SIG	APP FIG 2
D	1-1/3	48V SIG	APP FIG 3 & 5
E	1-1/3	48V SIG	APP FIG 3
F	1-1/3	48V SIG	2 APP FIG 2 MAX
G	1-1/3	48V SIG	APP FIG 6,7&8, MAX 12 LPS
BATTERY SYMBOL			VOLTAGE RANGE
-48			44-52

102.

FEATURE OR OPTION		PROVIDE		
		APP FIG	APP OR WRG	QUANTITY
SHELF ALARMS	PERMANENT SIGNAL (SEE NOTE 106)	1		1 PER 12SW OR LESS CAP: SEL OR SEL CONN OR CONN SHELF UNIT OR TWO PER 20SW CAP SEL SHELF UNIT
	RELEASE MAGNET	2		1 PER 12SW OR LESS CAP: SHELF UNIT OR 1 PER 20SW CAP L- FDR TRK FDR SHELF UNIT OR TWO PER 20SW CAP SEL SHELF UNIT
	FUSE ALARM		S	1 PER SHELF
COMMON ALARM CKT		3	R	1 PER PBX
SERVING CENTRAL OFFICE REQUIRES	REV BAT ALM WITH NIGHT CLOSING AND ALARM CKT	PROVIDED AT PBX	Y	
	MARGINAL BAT ALARM	NOT PROVIDED	Z	
	GROUND ACTIVATED ALARM IN SAME BLDG.		X	
	BATTERY ACTIVATED ALARM IN SAME BLDG.		V,W	1 PER PBX
WHEN 701B EOPD IS ADDED TO 701A	FIG. 22 OF 701A MISC. ALARM CKT. PER SD-66384-01 FOR SW FR FA IS	PROVIDED	Q	
		NOT PROVIDED	N	
AUDIBLE AND VISUAL ALARM FOR SWITCHBOARDS		5		AS REQD
FUSE & PWR-ALM FOR 5-OR 6-TYPE CONSOLE			M	1 PER 6 CONSOLES
COMMON ALM AND SIG EXTENSION		4		AS REQD
AISLE PILOT LAMP	PERMANENT SIGNAL	6		
	RELEASE MAGNET	7		
	COMMON	8		1 PER LINE-UP AS REQD.
	AUTOMATIC CALL THRU TEST SET	9		
WHEN TRAFFIC REGISTER IS REQD WITH APP FIG. 2		10		1 PER REGISTER
ROTARY OUT TRUNK SWITCHES PROVIDED		11		1 PER AISLE OR ROTS

102. (CONTD)

FEATURE OR OPTION	PROVIDE		
	APP FIG	APP OR WRG	QUANTITY

103.

NETWORK VALUES			
NETWORK		RESISTANCE IN OHMS	CAPACITANCE IN UF
NO.	CODE		
1	185A	470	.11-.15
2	177D	620	1

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
					</	

104. (CONTD)

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

INFORMATION NOTES:

301. UNLESS OTHERWISE SPECIFIED:

RESISTANCE VALUES ARE IN OHMS, CAPACITANCE VALUES ARE IN MICROFARADS, AND VALUES PRECEDED BY THE SYMBOL + (PLUS) OR - (MINUS) ARE IN VOLTS.

302. USE ED-99541 DASH NO AND GROUP ASSY WHICH PROVIDES AN INTERNAL 2UF CAPACITOR.

303. WHEN WORKING ON CIRCUITS CONTAINING DIODES, VARISTORS, OR TRANSISTORS, PROCEDURES OUTLINED IN BSP SECTION 032-173-301 ARE TO BE FOLLOWED.

304. COMPARISON BETWEEN SD-65761-01 AND SD-65761-02:

FEATURE		SD-65761-01 FIG.	SD-65761-02	
			FS	APP. FIG.
PERMANENT SIGNAL ALARM	SHELF	FIG. 1	FS1	APP FIG 1
	COMMON TIMING	PART OF FIG. 3	FS2	PART OF APP FIG. 3 OPTION R
RELEASE MAGNET ALARM	SHELF	FIGS 2 & 8	FS3	APP FIG. 2
	COMMON	PART OF FIG. 3	FS4	PART OF APP FIG. 3
SHELF FUSE ALARM		FIG. 6	FS5	OPTION S
FINDER AND CALL BLOCK ALARM		PART OF FIG. 3	FS6	PART OF APP FIG. 3
COMMON FUSE, POWER, RINGING MACHINE ALARM & ALARM CUT-OFF		PART OF FIG. 3	FS7	PART OF APP FIG. 3
MAJOR-MINOR ALARM		PART OF FIG. 3	FS8	PART OF APP FIG. 3
AUDIBLE AND VISUAL ALM	AT UNIT	PART OF FIG. 3	FS9	PART OF APP FIG. 3
	AT SWBD	FIG. 5	FS10	APP FIG. 5
AISLE PILOT LAMPS	PERMANENT SIGNAL	PART OF FIG. 4		APP FIG. 6
	RELEASE MAG	PART OF FIG. 4		APP FIG. 7
	COMMON	PART OF FIG. 4 OR 8	FS11	APP FIG. 8
	AUTOMATIC CALL-THRU	FIG. 11		APP FIG. 9
ALM AND SIG. EXT		FIG. 7	FS12	APP FIG. 4
ROTS ALARM		FIG. 12	FS13	APP FIG. 11
5 OR 6 TYPE CONSOLE		FIG. 10	FS7	OPTION M
TRAFFIC REGISTER		FIG. C	FS2	APP FIG. 10
ADDED TO 701A		FIG. 9	FS3	OPTION R

305. APP FIG. AND FS ON THIS CIRCUIT MAY BE CONNECTED TO FIG. ON SD-65761-01 AND VICE-VERSA, ALTHOUGH THE FS AND CAD ON EITHER DRAWING DOES NOT REFLECT THIS INTERCONNECTION. (SEE NOTE 304) (FOR EXAMPLE A RELEASE MAGNET ALARM ON A SWITCH SHELF PER FS3 AND APP FIG. 2 ON THIS CIRCUIT CAN BE CONNECTED TO THE COMMON RELEASE MAGNET ALARM ON THE ALARM PANEL WHICH IS PART OF FIG. 3 ON SD-65761-01).

EQUIPMENT NOTES:

201. OPTION R PER APP FIG. 3 SHOULD BE ORDERED SEPARATELY AND INSTALLED LOCALLY PER JOB BASIS. LEAD DESIGNATED TO, ST AND PU TO BE RUN DIRECT.

MISCELLANEOUS ALARM CIRCUIT

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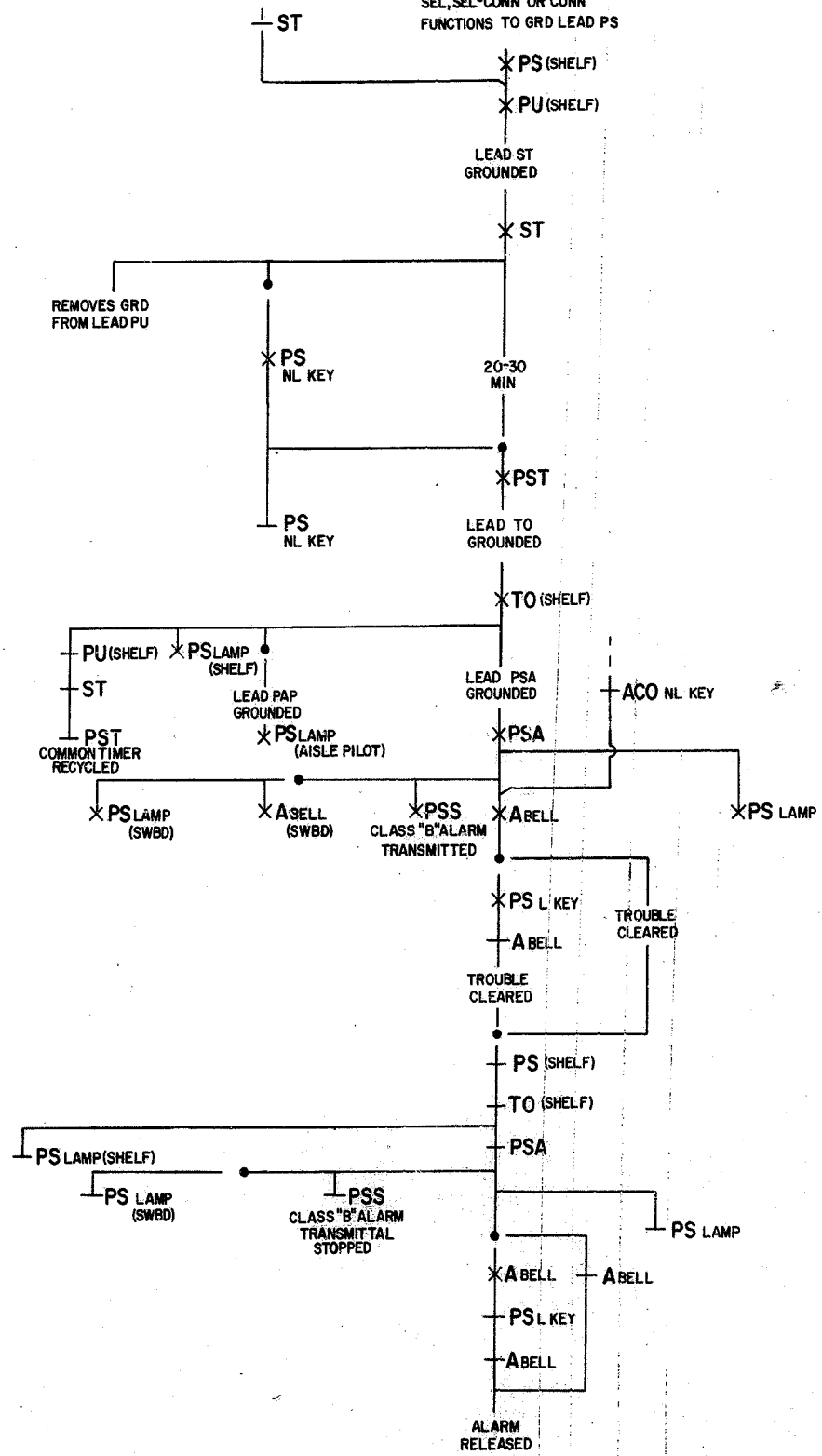
A B C D E F G H J K L M N P Q R S T U V W X Y Z AA AB AC AD AE

DRAWING
ISSUE
1
HW

SCI

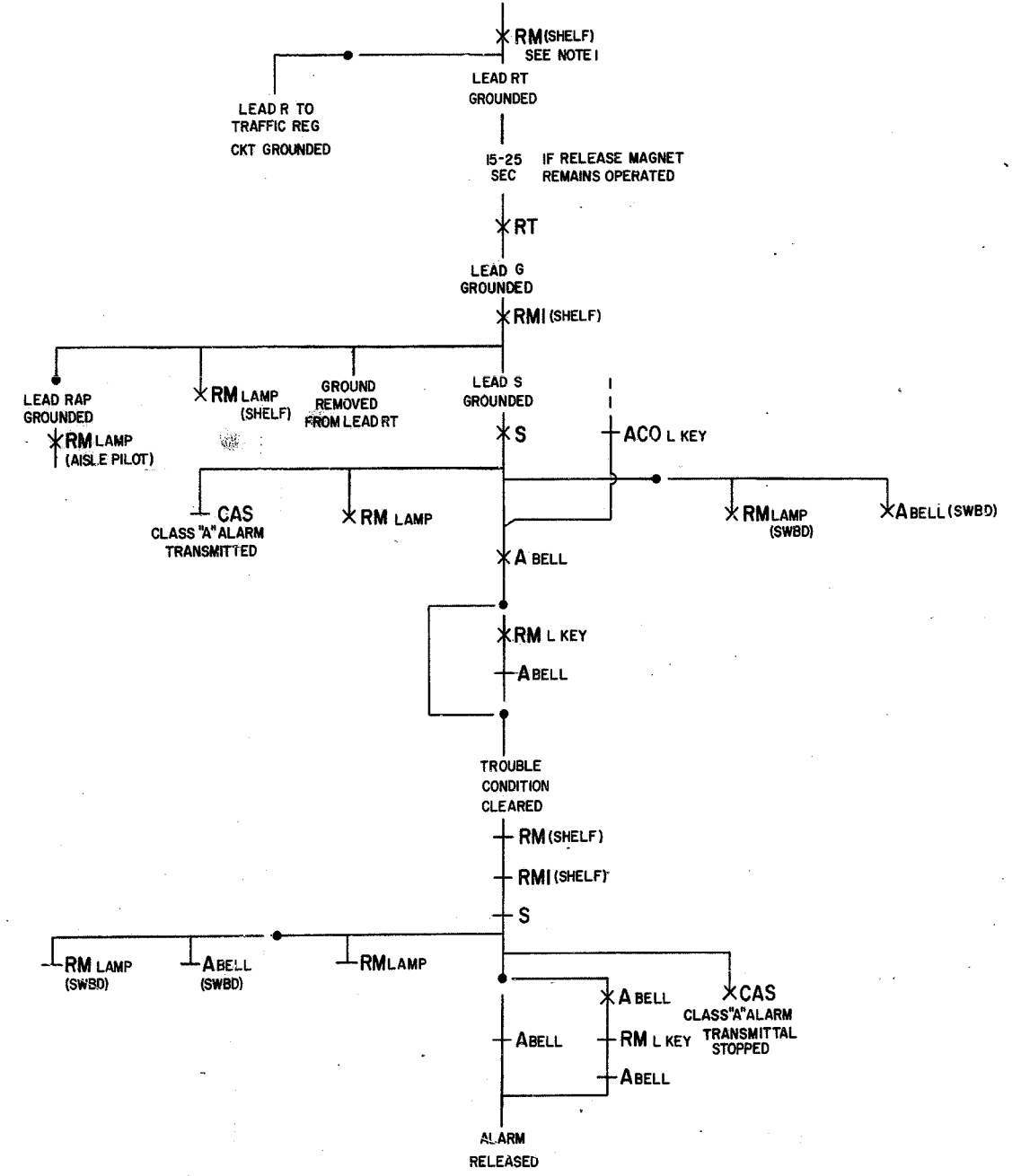
PERMANENT SIGNAL
ALARM
TIP AND RING SHORTED
RING GROUNDED OR
RECEIVER LEFT OFF HOOK

SEL, SEL-CONN OR CONN
FUNCTIONS TO GRD LEAD PS



SC2

RELEASE MAGNET
ALARM
CONNECTING CIRCUIT
FUNCTIONS TO RELEASE
ITS SWITCH



NOTES:
1. RELAY RM OPERATES IN SERIES WITH THE
RELEASE MAGNET (S) OF THE SWITCH (ES)
ON THE ASSOCIATED SHELF

SD-65761-02-EI

A B C D E F G H J K L M N P Q R S T U V W X Y Z AA AB AC AD AE

A B C D E F G H J K L M N P Q R S T U V W X Y Z AA AB AC AD AE

DRAWING
ISSUE
1
2B

HW
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40

SC 3

ALL FINDERS BUSY
OR
CALL BLOCK ALARM

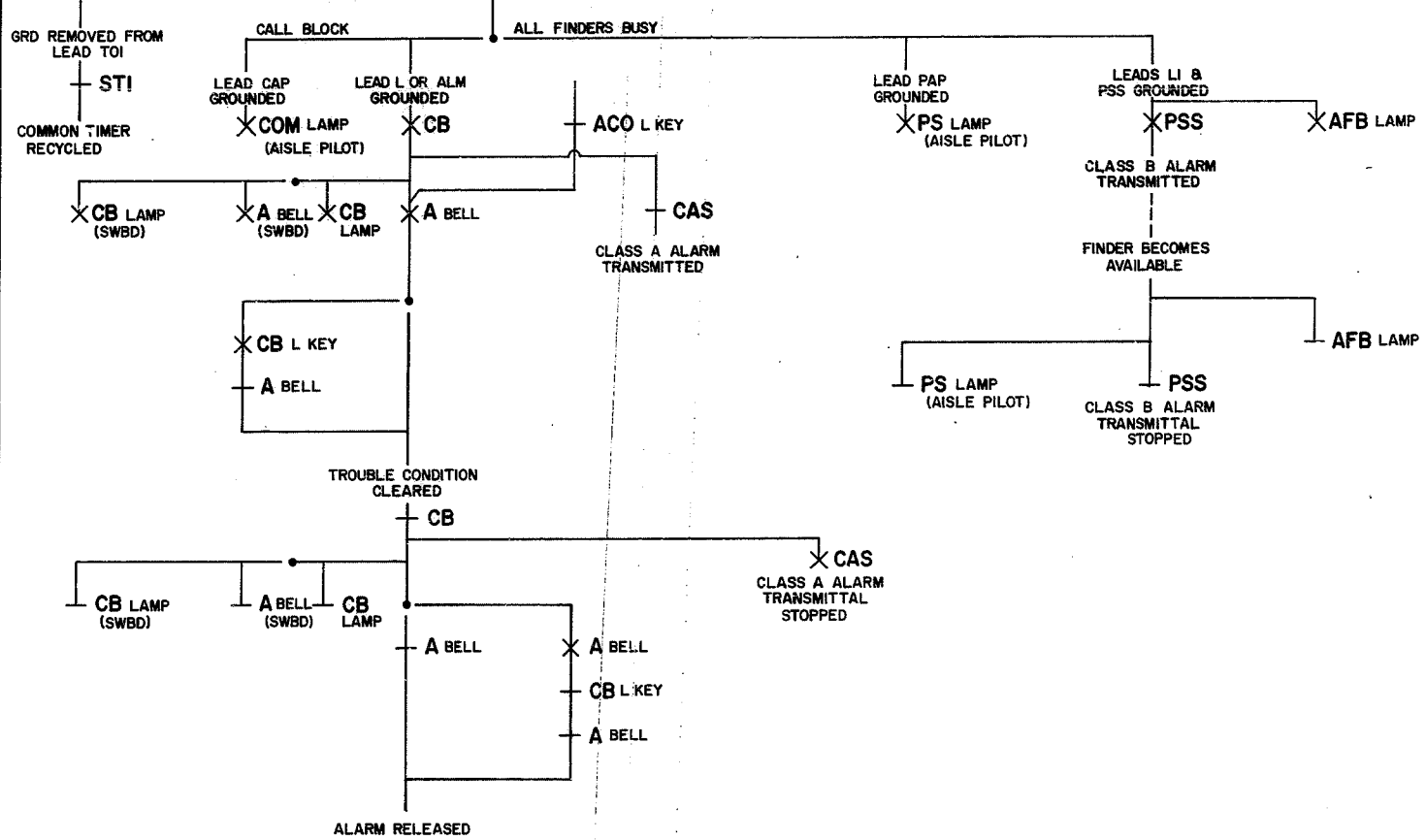
FINDER CKT OR COMMON GRP & SUBGRP CKT
FUNCTION - LEAD STI GROUNDED

STI

15-30 SEC

RELAY TIME DELAY CKT FUNCTIONS
GROUNDING LEAD TOI

CONNECTING CKT
FUNCTIONS



SC 5

ROTARY CUT TRUNK
SWITCH ALARM

ROTS FUNCTION
LEAD P GROUNDED

RO

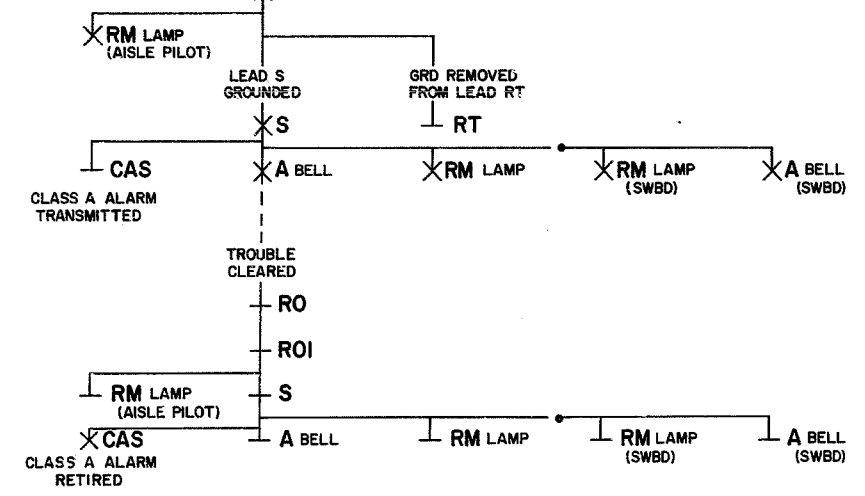
LEAD RT
GROUNDED

15-25 SEC

RT

LEAD G GROUNDED

ROI



MISCELLANEOUS ALARM CIRCUIT

SD-65761-02-E2

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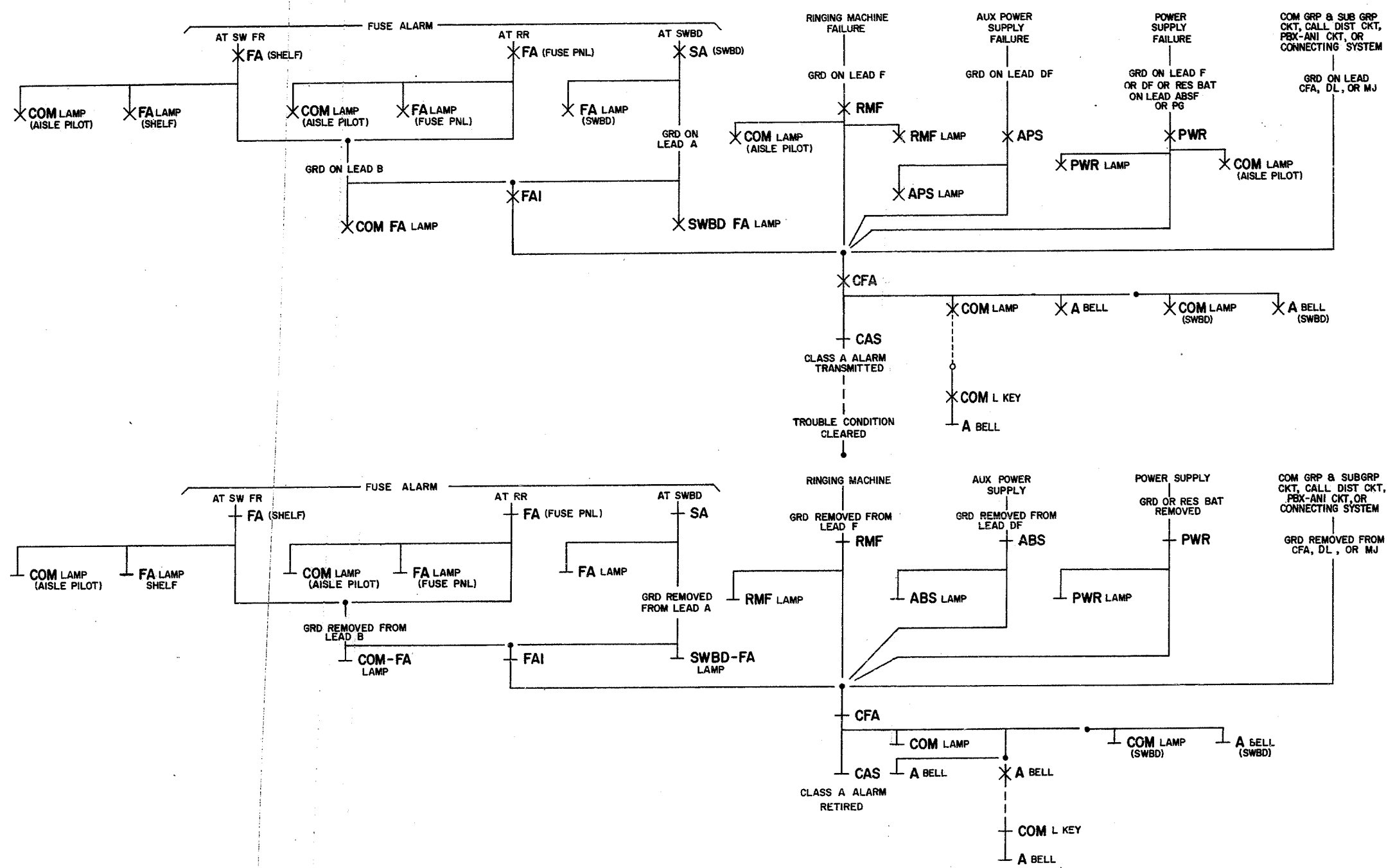
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SD-65761-02-E2

A B C D E F G H J K L M N P Q R S T U V W X Y Z AA AB AC AD AE

DRAWING
ISSUE
1
HW
1

SC 4
COMMON ALARM



SD-65761-02-E3

SD-65761-02-F1

CIRCUIT REQUIREMENTS																	
APPARATUS				MECH REQ			CIRCUIT PREPARATION				TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQ				REMARKS
DESIG	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								
ACO	1/2AK24		3		12				1U(ACO)	GRD		0	7.9	7.4	WDG ALONE	MOUNTED	
									1U(ACO)	GRD	1	0	54	51	ACO, BCO PARALLEL	WITH (FA1)	
APS	1/2AK24		3		12				1U(APS)	GRD		0	7.9	7.4	MOUNTED WITH (RMF)		
CAS	AJ129		3		335		8(CFA)		U(CAS)	GRD		0	4.1	3.9			
CB	1/2AK4		3		202		(ACO)0 12(CB)		1U(CB)	GRD		0	11.9	11.3	MOUNTED WITH (S)		
CFA	1/2AK4		3		202		(ACO)0 12(CFA)		1U(CFA)	GRD		0	11.9	11.3			
FA	1/2AK4	S	2		202		4(FA)	2L(FA)		BAT		0	11.9	11.3	MOUNTED WITH (RM1)		
FA1	1/2AK24		3		12		(CFA)NO		1L(FA1)	GRD		0	8.0	7.4	MOUNTED WITH (ACO)		

CIRCUIT REQUIREMENTS																	
APPARATUS				MECH REQ			CIRCUIT PREPARATION				TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQ				REMARKS
DESIG	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								
PS	1/2AK4		1		202				1U(PS)	GRD			0	11.9	11.3	MOUNTED WITH (TO)	
PSA	1/2AK4		3		202		(PSS)NO (ACO)0 1(PSA)		1L(PSA)	GRD			0	11.9	11.3	MOUNTED WITH (PSS)	
PSS	1/2AK4		3		202				1U(PSS)	GRD			0	11.9	11.3	MOUNTED WITH (PSA)	
PST	KS7828	R	3						1L(PST)	GRD	2						
PWR	AF12		3		20		(CFA)NO	2L(PWR)	1U(PWR)	GRD		P	0	19.5	18.5		
										BAT		S	0	11.7	11.1		
PU	AF67		1		207				U(PU)	GRD			0	7.2	6.8		
RM	1/1410		2		111/101	SPL	SPL		TF(RM)	GRD		3,4	P	0	195	185	
									TF(RM)	GRD		3,4,5	P	NO	152	160	
									TF(RM)	GRD		3,4	P	P	47.5	50	
RMF	1/2AK24		3		12		(CFA)NO		1L(RMF)	GRD			0	8.0	7.4	MOUNTED WITH (APS)	
RM1	1/2AK4		2		202		12(RM1)		1U(RM1)	GRD			0	11.9	11.3	MOUNTED WITH (FA)	
RO	AF97		11		46		2(RO1) 2(RO1)		1U(RO)			P	0	225	215		
									2U(RO)			S	0	44.5	42		
RO1	AF156		11		295				U(RO1)	GRD			0	27	25.5		
RT	235E		3						TERM 3	GRD	6						
S	1/2AK4		3		202		(ACO)0 (CAS)0 1(S)		1L(S)	GRD			0	11.9	11.3	MOUNTED WITH (CB)	
ST	1/2AK23	R	3		3				1L(ST)	GRD			0	7.9	7.4	MOUNTED WITH (ST1)	
ST1	1/2AK23		3		3				1U(ST1)	GRD			0	7.9	7.4	MOUNTED WITH (ST)	
TO	1/2AK4		1		202				1L(TO)	GRD			0	11.9	11.3	MOUNTED WITH (PS)	
TIMING REQUIREMENTS																	
RD			3									7					

* HEADING IS "CKT FIG" ON ATTACHED-CONTACT TYPE DRAWINGS;
FOR DETACHED-CONTACT TYPE DRAWINGS, HEADING IS "FIG."

NOTES:

- RELAY (BCO) SHOWN ON SD-65773-01.
- CONNECT GROUND TO RT TERMINAL. RELAY (PST) SHOULD OPERATE IN 20 TO 30 MINUTES.
- CONTACT MAKE 6 READJ, 4 TEST.
- ARMATURE TRAVEL 23.
- THE NONOPERATE CURRENT SHOULD NOT BE TESTED UNDER FULL SOAK CONDITION.
- TIME REQUIRED TO CLOSE CONTACTS (SECONDS) MAX 25 MIN 15, COOL PERIOD OF TWO MINUTES MIN.
- TO TEST THE RELAY TIME DELAY CIRCUIT (RD) FOR TIMING INTERVAL, OPERATE RELAY (CB) OF LINE FINDER COMMON GROUP CIRCUIT. RELAY (TO) OF COMMON GROUP CIRCUIT SHOULD OPERATE IN 15-30 SECONDS.

MISCELLANEOUS ALARM CIRCUIT

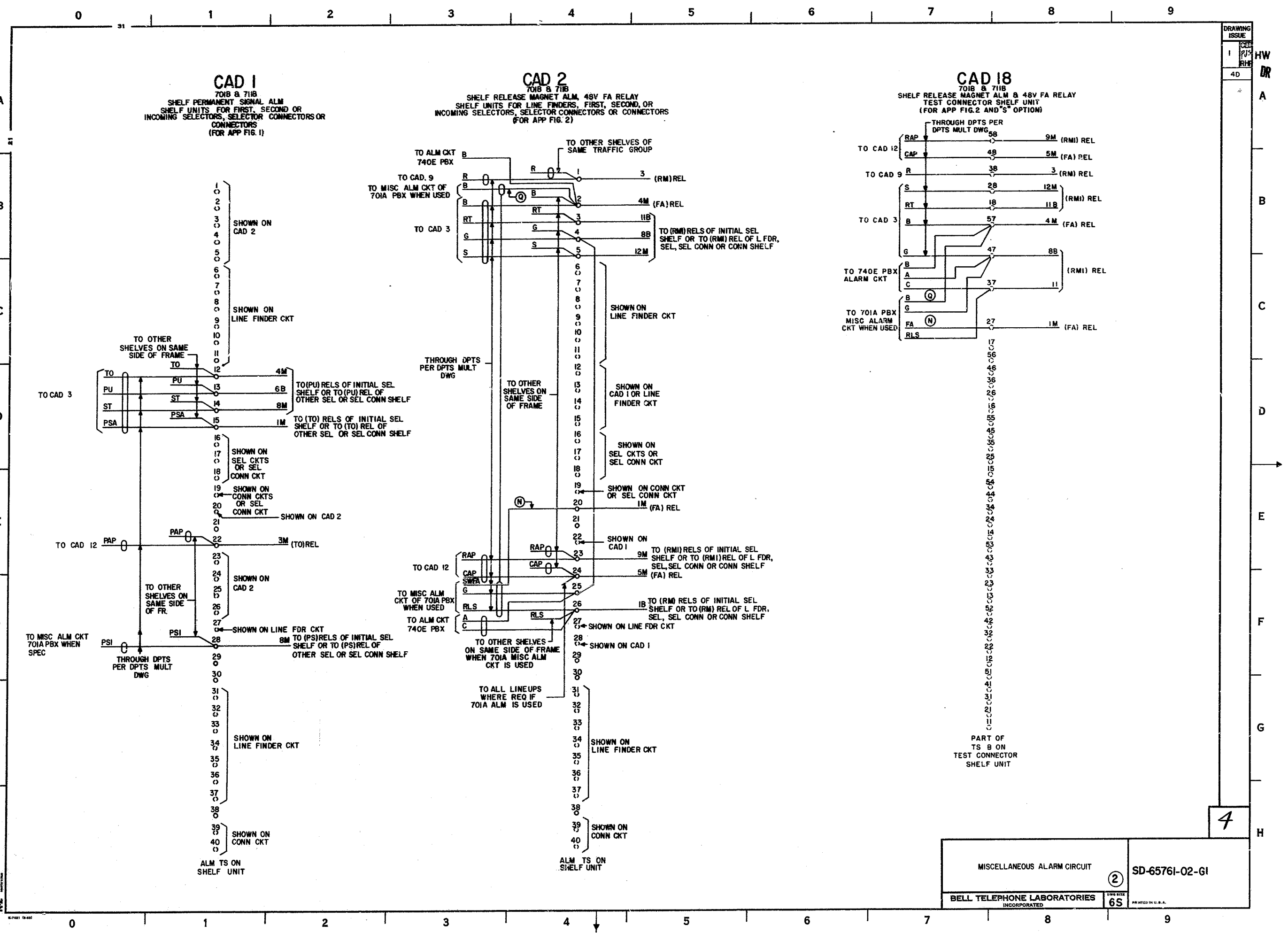
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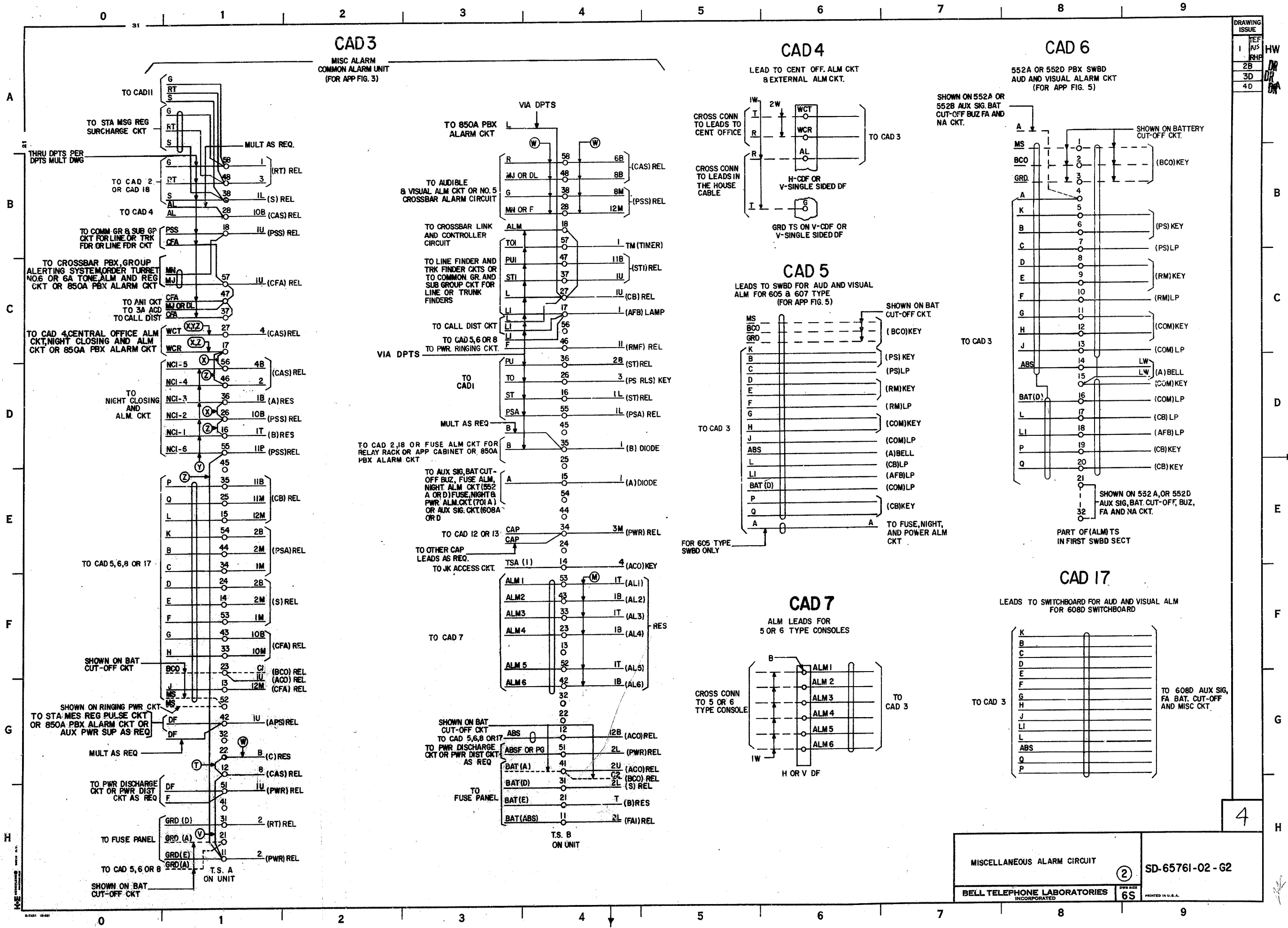
65

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DRAWING
ISSUE
1
ENC
R-1
HW



SD-65761-02-61



CAD 3

MISC ALARM
COMMON ALARM UNIT
(FOR APP FIG. 3)

CAD 4

LEAD TO CENT. OFF. ALM CKT
& EXTERNAL ALM CKT.

CAD 6

552A OR 552D PBX SWBD
AUD AND VISUAL ALARM CKT
(FOR APP FIG. 5)

CAD 5

LEADS TO SWBD FOR AUD AND VISUAL
ALM FOR 605 & 607 TYPE
(FOR APP FIG. 5)

CAD 17

LEADS TO SWITCHBOARD FOR AUD AND VISUAL ALM
FOR 608D SWITCHBOARD

CAD 7

ALM LEADS FOR
5 OR 6 TYPE CONSOLES

SD-65761-02-G2

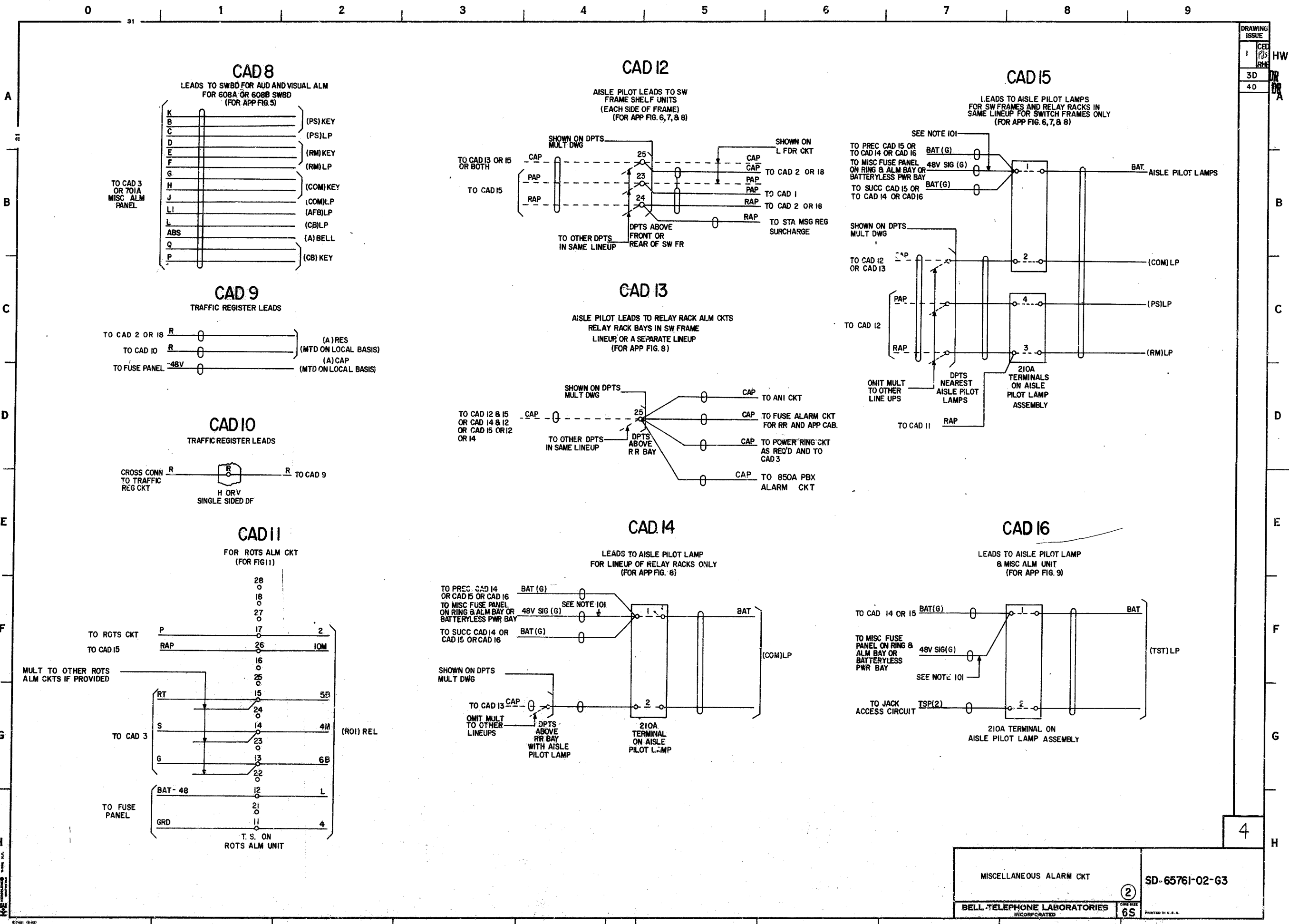
MISCELLANEOUS ALARM CIRCUIT

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SD-65761-02-G3

DRAWING
ISSUE

1

3D

4D

HW

DR

DA

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4