

SHEET INDEX

CONTENTS	SHEET NO.	ISSUE NO.																								
		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
SHEET INDEX SUPPORTING INFORMATION	A1	1	2	3	4	5	6	7	8	9	10	11	12	13	14											
FS1 - PICKUP KEY AND POLARITY GUARD CONNS FS2 - POLARITY GUARD CONNECTIONS FS3 - ROTARY DIAL & PANEL HEADSET JACK CONNECTIONS FS4 - TOUCH TONE DIAL & PANEL HEADSET JACK CONNECTIONS FS5 - RINGER CONNECTIONS	B1	1	2	3	4	5	5	5	5	5	5	5	5	5												
FS6 - REMOTE HEADSET JACK CONNECTIONS	B2	1	1	3	4	4	4	4	4	4	4	4	4	4												
FS7 - PICKUP KEY AND POLARITY GUARD CONNECTIONS	B3A*	-	-	-	4	5	5	7	8	8	8	8	8	13	14											
FS10 - ROTARY & TOUCH TONE DIAL CONNECTIONS FS12 - RINGER CIRCUIT	B3B	-	-	-	-	-	7	7	9	9	9	12	14													
FS8 - REMOTE HEADSET JACK CONNECTIONS FS9 - CMS ACCESS JACKS FS11 - CENTREX CONFERENCE KEY CIRCUIT FS13 - REMOTE JACKS FS14 - -48 TEST JACKS FS15 - CMS ACCESS JACKS OR NO. 4 ESS TTY JACKS FS16 - 2W ORDER WIRE INTERFACE CIRCUIT FS17 - 4W ORDER WIRE INTERFACE CIRCUIT FS18 - MAINTENANCE & COMMUNICATIONS HOLD KEY CIRCUIT	B4	-	-	-	4	5	6	7	7	7	10	10	10	10												
APP FIG. 1-12	C1	1	2	2	4	5	5	7	8	9	9	11	11	13	13											
APP FIG. 13-18	C2	-	-	-	4	5	6	6	8	8	8	8	8	8												
CIRCUIT NOTES	D1	1	2	3	4	5	6	7	8	9	10	10	12	13	13											
EQUIPMENT NOTES	D2	-	-	-	-	-	7	7	7	7	7	7	7	7												
INFORMATION NOTES																										
SHEET NUMBER CANCELED ON DWG ISS AB	F1																									
CAD 1	G1	1	2	3	4	5	6	6	6	6	6	6	6	6												
CAD 2																										
CAD 3-13	G2	-	-	3	4	5	5	5	5	5	5	5	5	5												
CAD 14-17	G3	-	-	-	4	5	6	7	7	7	10	10	10	13	13											
CAD 18,19	G4	-	-	-	4	5	6	7	7	7	10	10	10	13	13											
CAD 20,21,22,23,24,25	G5	-	-	-	-	5	6	7	7	7	10	10	10	10												

* SECTION B SHEETS WITH SUFFIX A WERE FORMERLY WITHOUT A SUFFIX LETTER.

CONTENTS	SHEET NO.	ISSUE NO.																								
		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
BD 1 - 660 COMM PANEL KEY ACCESS DIAL LINES ONLY																										
BD 2 - 660 COMM PANEL KEY ACCESS DIAL LINES & JACK SELECT WITH KEY ACCESS OF ORDER WIRES MULTI-KEY CONFERENCE																										
BD 3 - 660 COMM PANEL KEY ACCESS DIAL LINES & RELAY SELECT WITH KEY ACCESS OF ORDER WIRES MULTI-KEY CONFERENCE DIAL LINES & ONE ORDER WIRE	H1	-	-	-	-	-	6	6	6	6	6	6	6	6												
BD 4 - 660 COMM PANEL KEY ACCESS DIAL LINES & RELAY SELECT WITH BRIDGE CONFERENCE & KEY ACCESS OF ORDER WIRES																										

DWG ISSUE	CD ISSUE	DATE ISSUED	DRG	APPD
1	1	9-9-76	JCG	RDY
2A	2A	9-12-77	C.R.	WES
3B	2A	9-12-77	DNR	RBH
4B	3B	1-5-79	ADC	FAS
5D	3B	2-25-80	ZEN	WAS
6B	3B	9-5-81	ADC	WAS
7D	4D	9-29-82	ADC	WAS
8D	4D	3-1-83	SFL	WJG
9A	4D	3-1-83	SFL	JDE
10B	4D	9-23-83	ADC	WAS
11D	4D	1-21-85	ADC	WAS
12B	4D	1-24-85	BAT	TMS
13B	4D	5-13-86	BAT	TMS
14M	4D	8-6-87	BAT	TMS

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.

SUPPORTING INFORMATION

CATEGORY	NO.
EQUIPMENT DRAWING	ED-3C660-30 ED-3C661-() ED-3C805-() ED-3C663-() ED-3C659-()
DESCRIPTION INSTALLATION CONNECTIONS	028-349-101

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ISSUE
14M

1N99

COMMON SYSTEMS

660
COMMUNICATION PANEL CIRCUIT

SD-3C292-OI-AI

16 SHEETS

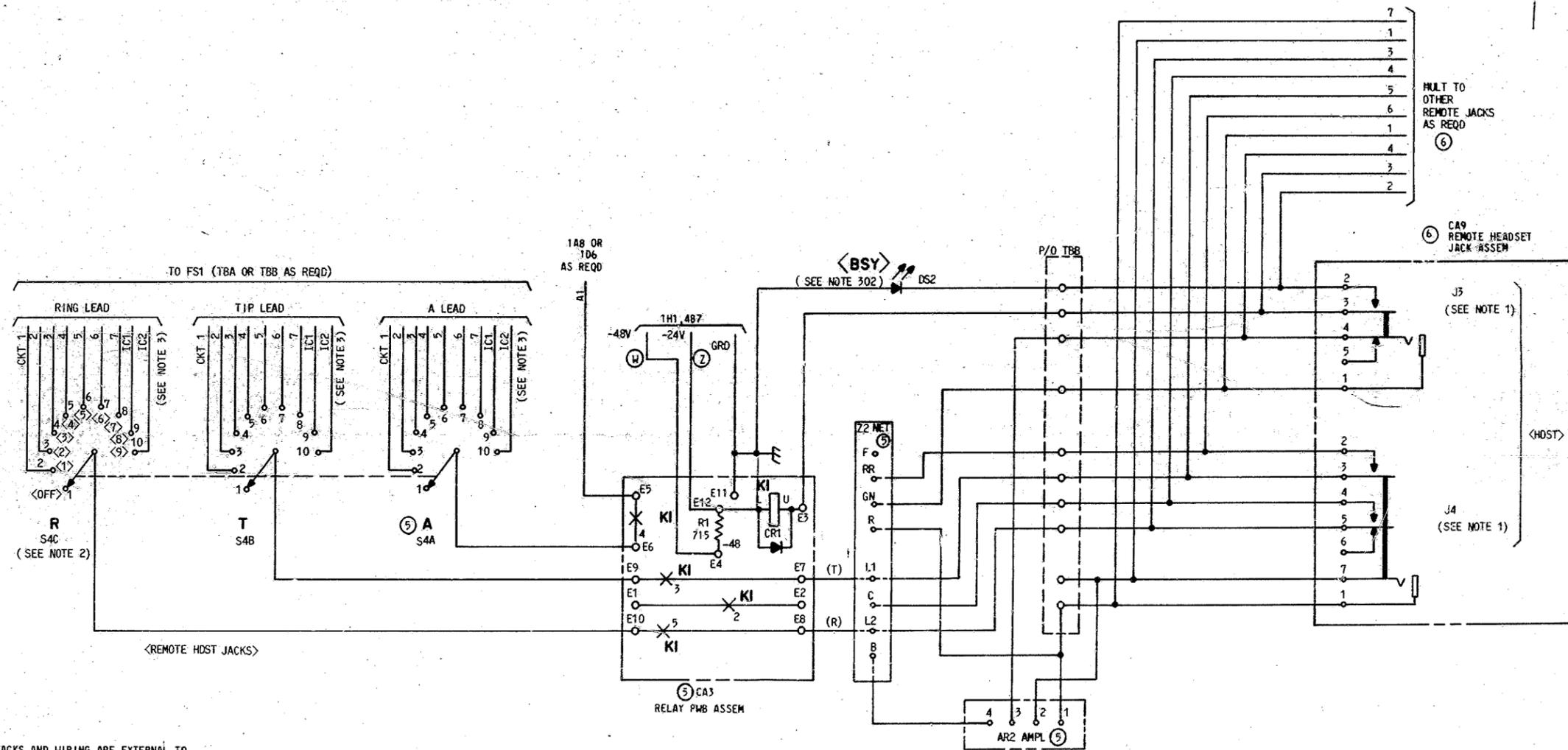
AT&T BELL LABORATORIES

6S

8-7289 111-971

FS 6 (MFR DISC)

REMOTE HEADSET JACK CONNECTIONS
(SEE NOTE 108)



NOTES:

1. J3 & J4 JACKS AND WIRING ARE EXTERNAL TO THE PANEL. THEY CAN BE REMOTELY MOUNTED ON AN EXISTING PANEL OR ARE PROVIDED MOUNTED ON COMPONENT ASSEMBLY CA 9.
2. THE <> INDICATE DESIGNATIONS ON THE FRONT PANEL. THE < > NUMBERS REFER TO THE RESPECTIVE PICK-UP KEY POSITION.
3. IC1 INDICATES INTERCOM CIRCUIT ONE.

ISSUE
4B

COMMUNICATION PANEL CIRCUIT

SD-3C292-01-B2

BELL TELEPHONE LABORATORIES
INCORPORATED

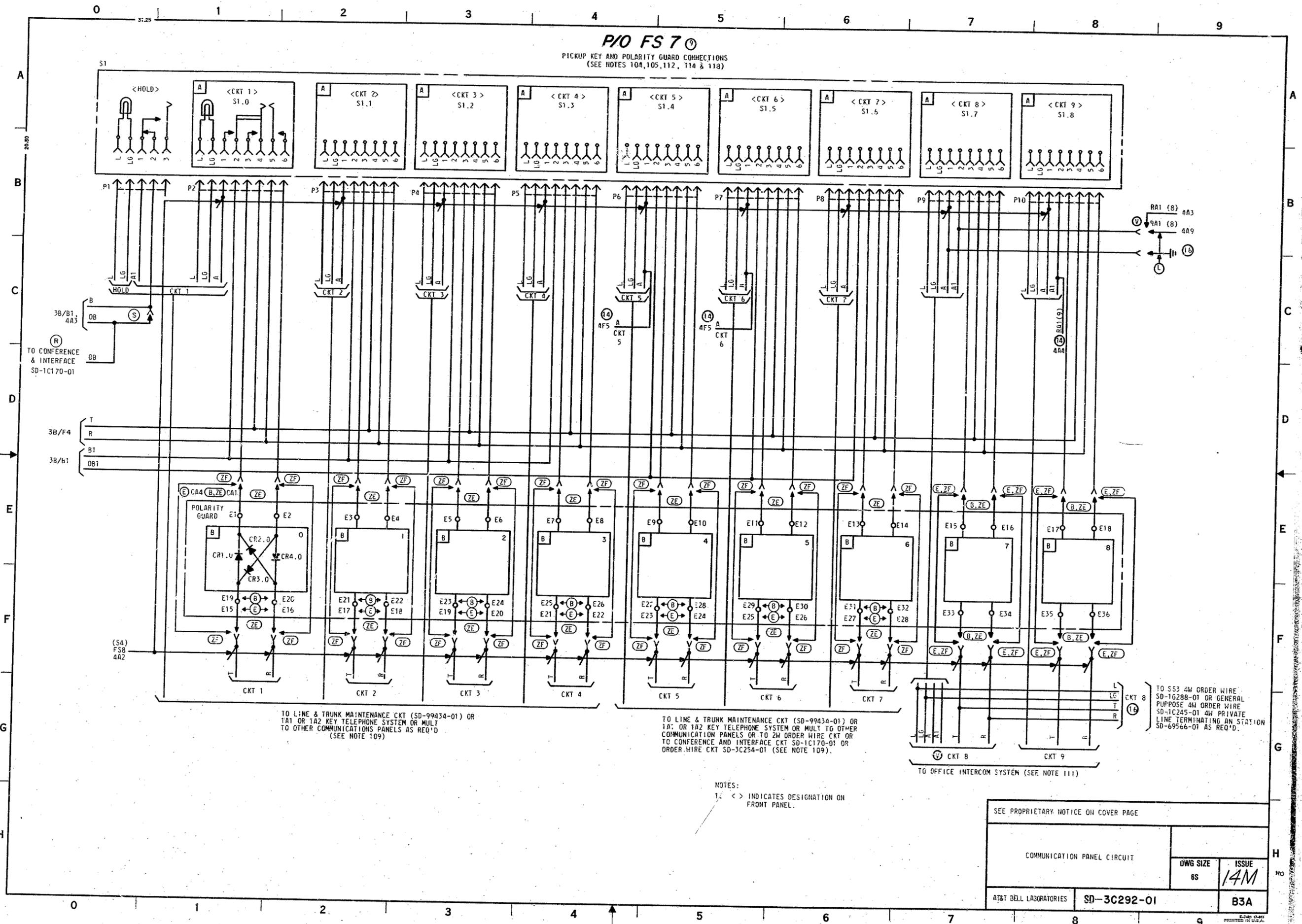
65

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FORM 10 1960 (10-71)

P/O FS 7

PICKUP KEY AND POLARITY GUARD CONNECTIONS
(SEE NOTES 104, 105, 112, 114 & 118)



TO LINE & TRUNK MAINTENANCE CKT (SD-99434-01) OR
1A1 OR 1A2 KEY TELEPHONE SYSTEM OR MULT
TO OTHER COMMUNICATIONS PANELS AS REQ'D
(SEE NOTE 109)

TO LINE & TRUNK MAINTENANCE CKT (SD-99434-01) OR
1A1 OR 1A2 KEY TELEPHONE SYSTEM OR MULT TO OTHER
COMMUNICATION PANELS OR TO 2W ORDER WIRE CKT OR
TO CONFERENCE AND INTERFACE CKT SD-1C170-01 OR
ORDER WIRE CKT SD-3C254-01 (SEE NOTE 109).

TO SS3 4W ORDER WIRE
SD-1G288-01 OR GENERAL
PURPOSE 4W ORDER WIRE
SD-1C245-01 4W PRIVATE
LINE TERMINATING AN STATION
SD-69566-01 AS REQ'D.

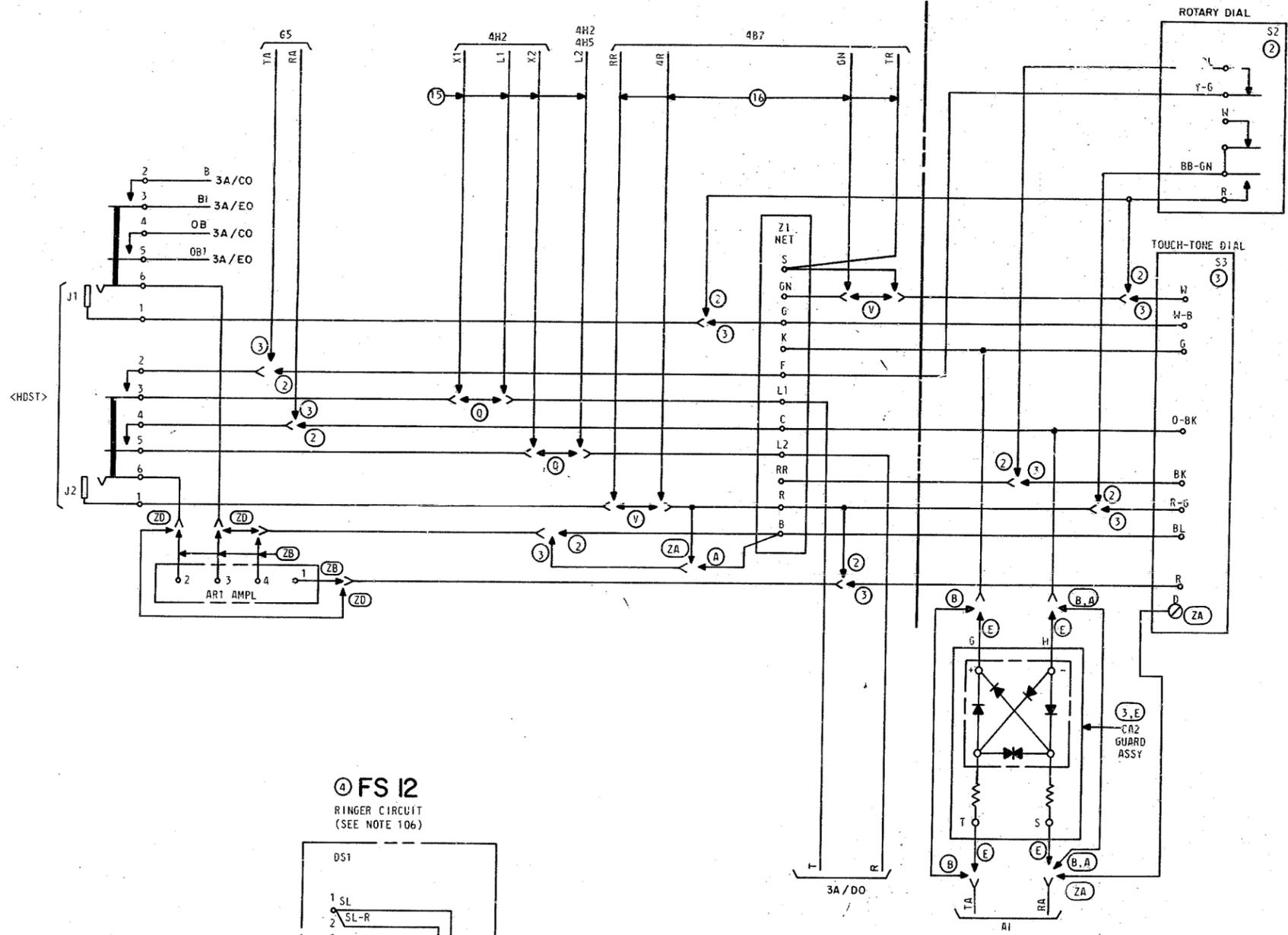
NOTES:
1. <> INDICATES DESIGNATION ON
FRONT PANEL.

SEE PROPRIETARY NOTICE ON COVER PAGE		
COMMUNICATION PANEL CIRCUIT	DWG SIZE	ISSUE
	6S	14M
AT&T BELL LABORATORIES	SD-3C292-01	B3A

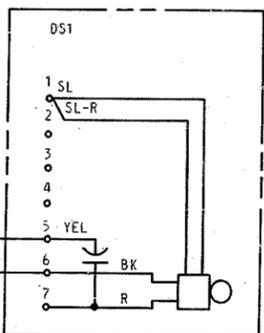
0 1 2 3 4 5 6 7 8 9

P/O FS 7
PICKUP KEY AND POLARITY GUARD CONNECTIONS
(SEE NOTES 118, 119)

FS 10
DIAL



FS 12
RINGER CIRCUIT
(SEE NOTE 106)



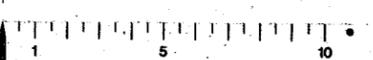
TO LINE & TRL CKT
SD-99434-01 OR
TO 1A1 OR 1A2 REL TEL
SYS OR MULT TO
OTHER COMMUNICATIONS
PANELS AS RECD
(SEE NOTES 107 & 109
SD-69566-01)

AUX RING-RTN
AUX RING

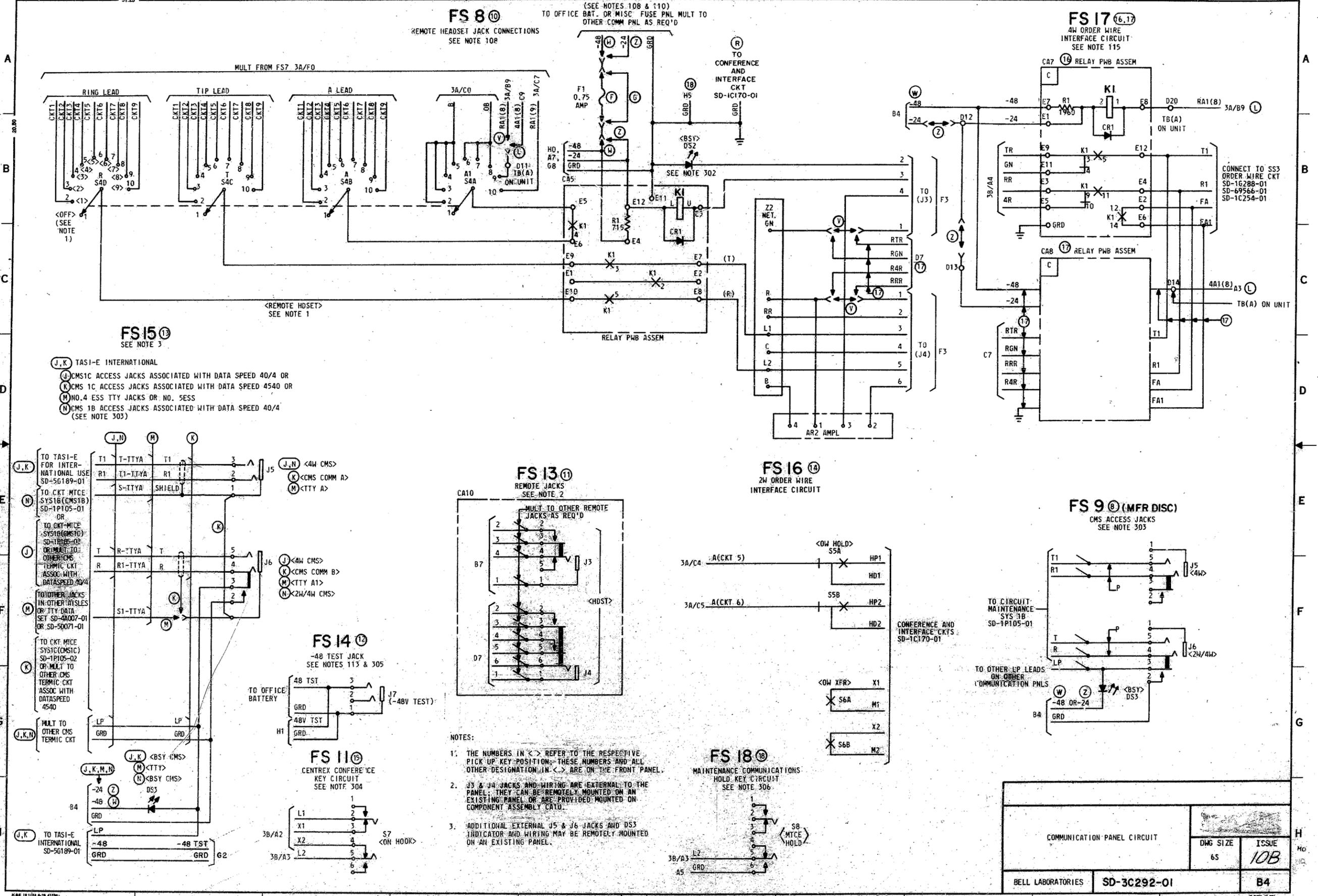
SEE PROPRIETARY NOTICE ON COVER PAGE		
COMMUNICATION PANEL CIRCUIT		DWG SIZE 6S
		ISSUE 14M
AT&T BELL LABORATORIES	SD-3C292-01	83B

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0 1 2 3 4 5 6 7 8 9



D C B A A B C D



APP FIG. 1 (MFR DISC)

AMPLIFIER		
DESIG	LOC	CODE
AR1	1D8, 1G6	241B
CONNECTOR		
DESIG	LOC	CODE
J1 (JACK)	1D6, 1B8	234A
J2 (JACK)	1C9, 1F6	411C
P1 (PLUG)	1A2	508G
P2 (PLUG)	1B2	508F
P3-P7 (PLUG)	1C2	508F
P8 (PLUG)	1D2	508F
P9 (PLUG)	1F2	508H
P10 (PLUG)	1G2	508H
KEY		
DESIG	LOC	CODE
S1	1A2	647G5
NETWORK		
DESIG	LOC	CODE
Z1	1B7, 1F5	4228F
TERMINAL STRIP		
DESIG	LOC	CODE
TBA	1A1	251B
TBB	1H1, 2C7	298A

APP FIG. 5 (MFR DISC)

COMPONENT ASSEMBLY		
DESIG	LOC	CODE
CA3	2F5	ED-3C661-30, G1 OR G2
E/W		
* RELAY		
DESIG	K1	* RELAY NOT ADJUSTABLE. REPLACE WHEN THERE IS A MALFUNCTION.
CODE	BF56	
OPTION		
CONT ARR	LOC	
6	-	-
5	EBM	2F4
4	EBM	2E4
3	EBM	2E4
2	EBM	2F5
1	-	-
COIL	2E5	
DIODE		
DESIG	LOC	CODE
CR1	2E5	533F
RESISTOR		
DESIG	LOC	CODE
R1	2E5	KS-20289, L6C, 715

APP FIG. 8 (MFR DISC)

CONNECTOR		
DESIG	LOC	CODE
J5	4F9	241A
J6	4F9	241A
LIGHT EMITTING DIODE		
DESIG	LOC	CODE
DS3	4G8	552B
E/W 841200108 MTG ADAPTER & 47B LAMP SOCKET		

APP FIG. 10

AMPLIFIER		
DESIG	LOC	CODE
AR2	4D6	241B
COMPONENT ASSEMBLY		
DESIG	LOC	CODE
CA5	4B4	ED-3C661-30, G2
E/W:		
* RELAY		
DESIG	K1	* RELAY NOT ADJUSTABLE. REPLACE WHEN THERE IS MALFUNCTION.
CODE	BF56	
OPTION		
CONT ARR	LOC	
6	-	-
5	EBM	4C4
4	EBM	4C4
3	EBM	4C4
2	EBM	4C5
1	-	-
COIL	4B5	
DIODE		
DESIG	LOC	CODE
CR1	4C5	533F
RESISTOR		
DESIG	LOC	CODE
R1	4C4	KS-20289, L6C, 715

APP FIG. 2

DIAL, ROTARY		
DESIG	LOC	CODE
S2	1B6, 3B/A6	6EA-3

APP FIG. 3

COMPONENT ASSEMBLY		
DESIG	LOC	CODE
CA2	1A3, 3B/E6	P-90D170
DIAL, TOUCH TONE		
DESIG	LOC	CODE
S3	1D4, 3B/C6	72H3A
(SEE NOTE 120)		

APP FIG. 4

RINGER		
DESIG	LOC	CODE
DS1	1F9, 3B/F2	E1C49

APP FIG. 6 (MFR DISC)

COMPONENT ASSEMBLY		
DESIG	LOC	CODE
CA9	2C9	ED-3C659-30, G1
E/W		
CONNECTOR		
DESIG	LOC	CODE
J3	2D9	234A
J4	2E9	411C

APP FIG. 7 (MFR DISC)

COMPONENT ASSEMBLY		
DESIG	LOC	CODE
CA1	1C1	ED-3C805-30, C1
E/W		
DIODE		
DESIG	LOC	CODE
(7) CR1.0-CR1.6	1C1	KS-21765, L2
(7) CR2.0-CR2.6		
(7) CR3.0-CR3.6		
(7) CR4.0-CR4.6		

APP FIG. 9

AMPLIFIER		
DESIG	LOC	CODE
AR1	3B/E1	241B
COMPONENT ASSEMBLY		
DESIG	LOC	CODE
CA4 (MFR DISC.)	3C1	ED-3C805-30, G1
CA1	3A/E1	ED-2C638-(1), G1
E/W:		
DIODE		
DESIG	LOC	CODE
(9) CR1.0-CR1.8	3A/E(1-8)	KS-21765, L2
(9) CR2.0-CR2.8		
(9) CR3.0-CR3.8		
(9) CR4.0-CR4.8		
CONNECTOR		
DESIG	LOC	CODE
J1, J2	3B/EO, 3B/DO	361C
P1	3A/B0	508G
(7) P2-P8	3A/B(1-6)	508F
(2) P9, P10	3A/B7	508H
KEY		
DESIG	LOC	CODE
S1	3A/A0	647G5
NETWORK		
DESIG	LOC	CODE
Z1	3B/B4	4228F-OR-4293N

APP FIG. 11

FUSE		
DESIG	LOC	CODE
F1	4A4	70H
LIGHT EMITTING DIODE		
DESIG	LOC	CODE
DS2	4B5	556E
NETWORK		
DESIG	LOC	CODE
Z2	4B5	4228F-OR-4293N
SWITCH ROTARY		
DESIG	LOC	CODE
S4	4B0-4B3	KS-14464, L98
COMPONENT ASSEMBLY		
DESIG	LOC	CODE
CAT0	4E3	ED-3C659-30, G()
E/W		
CONNECTOR		
DESIG	LOC	CODE
J3	4F4	234A
J4	4G4	361C

APP FIG. 12

CONNECTOR		
DESIG	LOC	CODE
J7	4G3	238A

SEE PROPRIETARY NOTICE ON COVER PAGE

COMMUNICATION PANEL CIRCUIT

AT&T LABORATORIES

ISSUE 13B

SD-3C292-01-C1

6S PRINTED IN U.S.A.

MADE IN THE U.S.A.

CIRCUIT NOTES:

DESIG	FUSE AMP	POTENTIAL	ONE PER
-48V	3/4A	-48V	SEE NOTE 108
-48V TST	1-1/3A	-48V	PANEL(SEE NOTE 113)
-24V	3/4A	-24V	SEE NOTE 108

FEATURE OR OPTION	PROVIDE		
	APP FIG	APP OR WRG	QUANTITY
COMMUNICATION PANEL	9	B	1 PER PNL
ROTTARY DIAL	2		1 PER PNL AS REQ'D
TOUCH-TONE DIAL	3	ZA	
RINGER	4		AS REQ'D
2-WIRE ORDER WIRE	WITHOUT	S	AS REQ'D
	WITH	R	
4-WIRE ORDER WIRE	WITHOUT	V	AS REQ'D
		Z,L	
	WITH	NO FUSE -24V W,L	
		FUSE -48V Z,L,F	
	FUSE -24V W,L,F		
	FUSE -48V W,L,F		
CENTREX ON-HOOK CONFERENCE KEY	WITHOUT	Q	AS REQ'D
	WITH		
MTCE COMM HOLD KEY	18	T	
-48V TEST JACK	12		AS REQ'D
CMS ACCESS JACKS	NO FUSE -24V	Z	AS REQ'D
		W	
	FUSE -48V	Z,F	
		W,F	
	DATA SPEED 4/40	J	
	DATA SPEED 4540	K	
TTY JACKS FOR 4ESS OR 5ESS		M	
REMOTE HEADSET JACK CONNECTION	WITHOUT 4-WIRE ORDER WIRE	NO FUSE -24V Z	AS REQ'D
		FUSE -48V W	
	WITH 4-WIRE ORDER WIRE	NO FUSE -24V Z,L	
		FUSE -48V W,L	
	FUSE -24V Z,F,L	ONE PER APP FIG. 10 & 16	
	FUSE -48V W,F,L		
REMOTELY LOCATED HEADSET JACKS	11		AS REQ'D
TAS-E REMOTE JACKS	DATA SPEED 4/40	J	AS REQ'D
	DATA SPEED 4540	K	
WITH CONFERENCE POLARITY GUARD	9	ZE	AS REQ'D SEE NOTES 104 & 122
WITHOUT CONFERENCE POLARITY GUARD	9	ZF	

CIRCUIT NOTES:(CONT)

CHANGED ON ISSUE	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT		
				STD	A & M	MD
3B	X,Y	X		X		Y
	W,Z	W	110	W,Z		
4B	APP FIG. 1 & 7 OR 9	FIG.1 & 7		FIG.9		FIG.1 & 7
	APP FIG. 5 OR 10	FIG.5		FIG.10		FIG.5
	APP FIG. 6 OR 11	FIG.6		FIG.11		FIG.6
	APP FIG. 12	NONE		FIG.12		
	APP FIG. 8 OR 13	FIG.8		FIG.13		FIG.8
	APP FIG. 14	NONE		FIG.14		
	APP FIG. 15	NONE		FIG.15		
	APP FIG. 16	NONE		FIG.16		
	T,V	NONE		T,V		
	R,S	NONE		R,S		
Q,N	NONE		Q,N			
APP FIG. 17	NONE		FIG.17			
APP FIG. 18	NONE		FIG.18			
5D	N,M	NONE		N,M		
	L	NONE	117	L		
6B	J,K,N	N		J,K		N
7D	F,G	G		F		G
	B,E	E		B		E
9A	ZA	A	120	ZA		A
12B	ZD	ZB	121	ZB,ZD		
13B	ZF	ZE	104 & 122	ZE,ZF		

CIRCUIT NOTES:(CONT)

- THE PICKUP KEY COMES WIRED FOR A HOLD AND 7 POSITIONS THAT CAN BE CONFERENCED TOGETHER. IT IS RECOMMENDED THAT NO MORE THAN 3 LINES BE CONFERENCED TOGETHER AT ONE TIME.
- POSITIONS 8 & 9 OF THE PICKUP KEY ARE FOR USE WITH THE OFFICE INTERCOM SYSTEMS AND THEY CANNOT BE CONFERENCED IN ANY WAY. WHEN ONE OF THESE KEYS IS OPERATED ALL OTHER KEYS ARE RELEASED.
- THE RINGER(FS5 OR FS12) IS AVAILABLE ON AN OPTION BASIS. NORMALLY THE TEL SET ALARM SHOULD BE CONNECTED TO THE OFFICE ALARM SYSTEM. INSURE THAT THE INTERNAL WIRING IS COMPLETED AS SHOWN.
- WHEN FEATURES,SUCH AS LAMP INDICATION OF INCOMING CALL STATUS,AUDIBLE LINE SIGNALS OR ELECTRICAL HOLD ARE REQUIRED FOR ANY OF THE 7 LINES OF THE COMMUNICATIONS CIRCUIT,IT IS NECESSARY TO CONNECT THAT LINE TO A LINE CIRCUIT OF EITHER THE LINE AND TRUNK CIRCUIT FOR MAINTENANCE COMMUNICATIONS OR REPAIR SERVICE SD-99434-01 (FS17 OR FS40 OR EQUIVALENT) OR THE 1A1/1A2 KEY TELEPHONE SYSTEM.
WHEN ELECTRICAL HOLD IS USED FOR PBX OR CO LINES,KEY TELEPHONE SYSTEM CIRCUITS CANNOT BE MIXED WITH SD-99434-01 CIRCUITS ON THE SAME PICKUP KEY GROUP.
- WHEN PANEL IS EQUIPPED WITH 4 WIRE INTERFACE AND REMOTE HEADSET CIRCUIT MULTIPLE UP TO 8 PANELS PER FUSE. WHEN PANEL IS EQUIPPED WITH 4 WIRE INTERFACE OR REMOTE HEADSET, BUT NOT BOTH, MULTIPLE UP TO 15 PANELS PER FUSE. REMOTE HEADSET CIRCUIT REQUIRES APPROXIMATELY 30 mA PER PANEL. 4 WIRE INTERFACE REQUIRES APPROXIMATELY 16 mA PER RELAY.
- THE OPTIONAL RINGER AUX RING LEADS IN FS1 AND FS12 MAY BE CONNECTED AS SHOWN OR TO AN INDIVIDUAL INCOMING LINE BY STRAPPING TERMINALS A20 & B20 ON T8A CAD 1 OR TERMINALS C19 & C20 CAD 16 OR CAD 18 TO THE TIP AND RING TERMINALS RESPECTIVELY OF THE DESIRED LINE.
- POWER MAY BE PROVIDED EITHER FROM -48V, USING OPTION (1), OR FROM -24V USING OPTION (2).
- WHEN CONNECTING AN INTERCOM LINE TO POSITIONS 8 OR 9, CARE MUST BE TAKEN TO INSURE THAT NEGATIVE BATTERY IS ON THE RING AND GROUND ON THE TIP.
- POSITION 9 IS ONLY FOR USE WITH THE OFFICE INTERCOM SYSTEM. POSITION 8 MAY BE USED WITH EITHER THE OFFICE INTERCOM SYSTEM OR 4 WIRE SERVICE.
- FUSE -48V TEST JACK SEPARATE FROM COMMUNICATION CIRCUITS.
- THE BATTERY SUPPLY ON THE TR LEADS SHALL BE -24 VOLTS.
- DO NOT CONNECT OPTION (2) LEADS TOGETHER WHEN OPERATING WITH OPTION (1).
- LAMP CONNECTIONS ARE FOR ILLUSTRATION ONLY WIRING MUST BE ARRANGED ON A LOCAL BASIS.
- RELAY PWB ASSEMBLIES (16) & (17) PER FS17 REQUIRED FOR 4-WIRE ORDER WIRE MAY BE FURNISHED BUT NOT USED. WHEN 4-WIRE ORDER WIRE IS REQUIRED REPLACE WIRING OPTION (Y) WITH WIRING OPTION (1).
- POLARITY GUARD ASSEMBLY CA1 EQUIPPED WITH 7 SECTIONS, POLARITY GUARD ASSEMBLY CA2 AND ASSOCIATED WIRING ARE SHOWN AS OPTION (E). THIS IS REPLACED IN OPTION (B) BY WIRING AND A 9 SECTION CA1 GUARD ASSEMBLY.
- TOUCH-TONE DIAL WIRING, OPTION (A) IS ASSOCIATED WITH DIAL 35Y3A AND OPTION (ZA) IS ASSOCIATED WITH DIAL 72H3A. ONLY OPTION (ZA) WIRING IS A CLASS A CHANGE.
- APP FIG 3, OPTION (ZA) SUBSTITUTION OF 72H3A DIAL FOR OPTION (A) 35Y3A DIAL IS A CLASS D CHANGE NOT AN A CHANGE.
- IF THERE IS CLIPPING OF THE TRANSMITTED SIGNAL WHEN INSTALLED WITH OPTION (ZB), CHANGE TO OPTION (ZD).
- OPTION (ZE) PROVIDES A POLARITY GUARD WHICH MAKES ALL TR BIASES COMPATIBLE FOR NOTE 104 CONFERENCEING. WITH OPTION (ZF) NO POLARITY GUARD IS PRESENT. WITH THIS OPTION CAREFUL INSTALLATION IS REQUIRED IF CONFERENCEING AS IN NOTE 104 IS DESIRED.

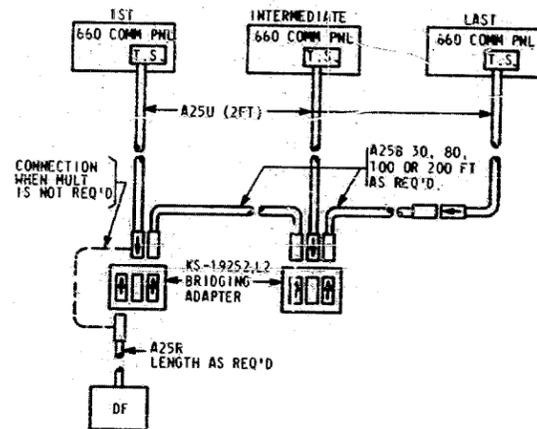
SEE PROPRIETARY NOTICE ON COVER PAGE

COMMUNICATION PANEL CIRCUIT	DWG SIZE	ISSUE
	6S	13B
AT&T BELL LABORATORIES	SD-3C292-01	DI

EQUIPMENT NOTES:

INFORMATION NOTES:

301. UNLESS OTHERWISE SPECIFIED, RESISTANCE VALUES ARE IN OHMS, CAPACITANCE VALUES ARE IN MICROFARADS.
302. THE LLJ DS2 INDICATES WHEN THE REMOTE JACKS ARE IN USE.
303. THE CMS ACCESS JACKS ARE MOUNTED IN THE UNUSED HOLES IN THE BLACK MOUNTING BLOCK. THE CMS BUSY LAMP IS ALSO MOUNTED IN THE MOUNTING BLOCK. WHENEVER THE CMS SYSTEM IS BEING USED, ON ANY PANEL WHERE IT APPEARS, THE BUSY LAMP WILL LIGHT.
304. THE CENTREX CONFERENCE KEY IS MOUNTED IN AN UNUSED HOLE IN THE BLACK MOUNTING BLOCK.
305. THE -48V TEST JACK IS MOUNTED IN AN UNUSED HOLE IN THE BLACK MOUNTING BLOCK.
306. THE MAINTENANCE COMMUNICATIONS HOLD KEY IS MOUNTED IN AN UNUSED HOLE IN THE BLACK MOUNTING BLOCK.
307. THE PICKUP KEYS ARE EQUIPPED WITH 51A LAMPS. THESE LAMPS ARE RATED TO PRODUCE AT LEAST 200 END-FOOT CANDLES AT 10 VOLTS WITH A 35 TO 45 MA LOAD.
308. IF A 10V LAMP SUPPLY IS NOT AVAILABLE USE A 278A PAGING ADAPTER TO CONVERT THE LAMP SOURCE. SUBSTITUTION OF 51B OR 52A LAMPS WILL RESULT IN OVERHEATING THE PICKUP KEY.
309. MULTIPLE CONNECTORIZED COMMUNICATION PANELS.



COMMUNICATION PANEL CIRCUIT		DWG. SIZE	ISSUE
		6S	70
BELL LABORATORIES	SD-3C292-01	D2	

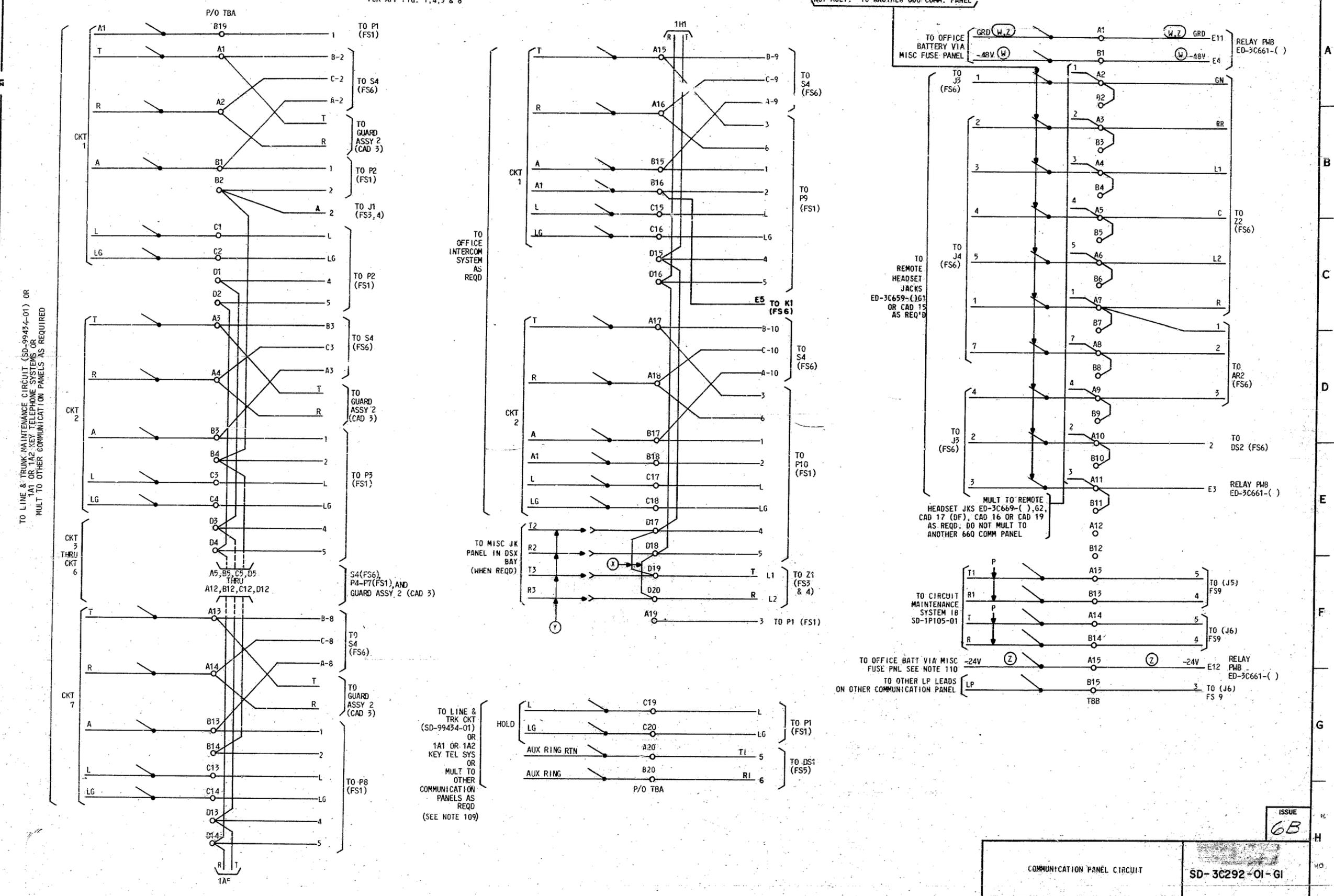
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CAD 1 (MFR DISC)

FOR APP FIG. 1, 4, 5 & 8

CAD 2 (MFR DISC)

MULT ONLY TO OTHER REMOTE HEADSET JKS. ED-3C669-(), G1 OR CAD15 (DF) AS REQD. DO NOT MULT. TO ANOTHER 660 COMM. PANEL



TO LINE & TRUNK MAINTENANCE CIRCUIT (SD-99434-01) OR 1A1 OR 1A2 KEY TELEPHONE SYSTEMS OR MULT TO OTHER COMMUNICATION PANELS AS REQUIRED

TO OFFICE INTERCOM SYSTEM AS REQD

TO REMOTE HEADSET JACKS ED-3C659-() G1 OR CAD 15 AS REQD

MULT TO REMOTE HEADSET JKS ED-3C669-(), G2, CAD 17 (DF), CAD 16 OR CAD 19 AS REQD. DO NOT MULT TO ANOTHER 660 COMM PANEL

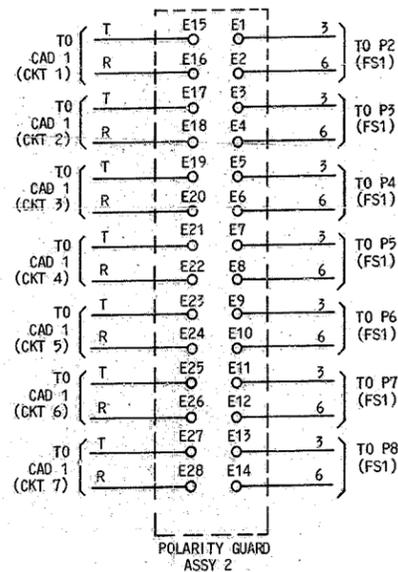
TO LINE & TRK CKT (SD-99434-01) OR 1A1 OR 1A2 KEY TEL SYS OR MULT TO OTHER COMMUNICATION PANELS AS REQD (SEE NOTE 109)

TO OFFICE BATT VIA MISC FUSE PNL SEE NOTE 110 TO OTHER LP LEADS ON OTHER COMMUNICATION PANEL

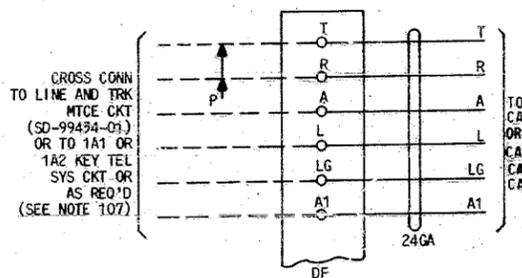
ISSUE 6B

COMMUNICATION PANEL CIRCUIT
SD-3C292-01-GI
BELL TELEPHONE LABORATORIES INCORPORATED
6S
PRINTED IN U.S.A.

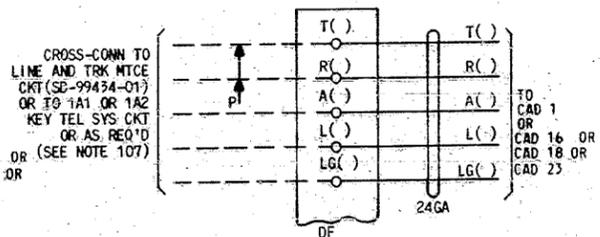
CAD 3 (MFR DISC)
FOR APPARATUS FIGURES 1 & 7



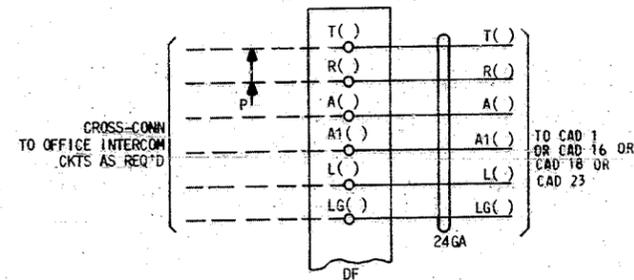
CAD 4
DISTRIBUTION FRAME CONNECTION FOR 1ST TELEPHONE LINE



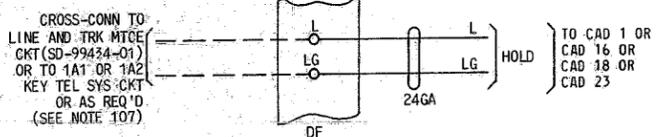
CAD 5
DISTRIBUTION FRAME CONNECTION FOR 2ND THRU 7TH TELEPHONE LINES



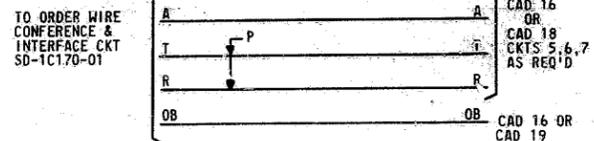
CAD 6
DISTRIBUTION FRAME CONNECTION FOR 1ST OR 2ND OFFICE INTERCOMMUNICATION LINE



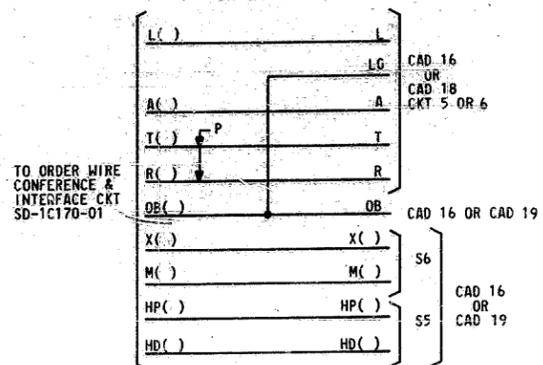
CAD 7
DISTRIBUTION FRAME CONNECTION FOR HOLD CIRCUIT



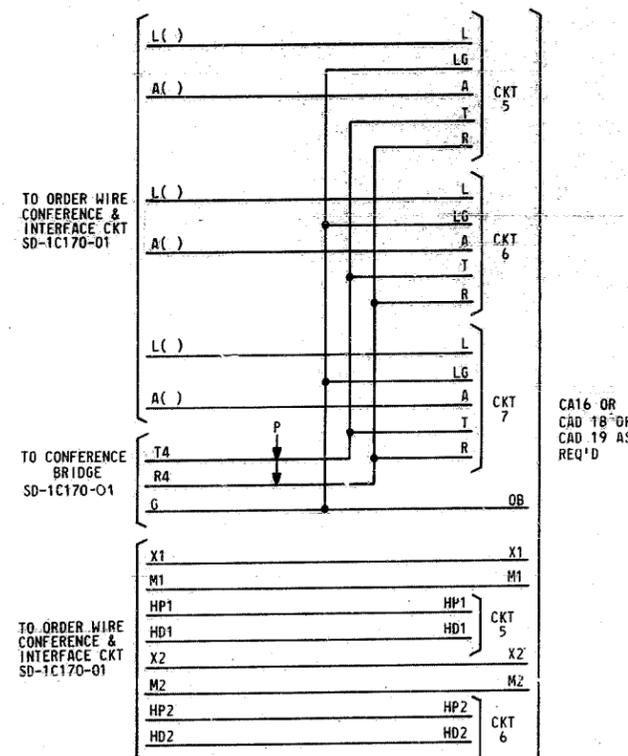
CAD 8
FOR SINGLE CONNECTION FOR T1/O'S OR T1C ORDER WIRE



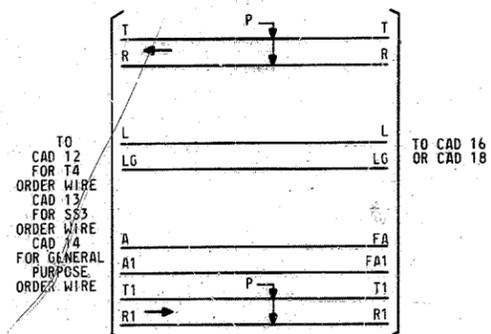
CAD 9
MULTI-ACCESS 'ON PICKUP' (NO CONFERENCE CKT)



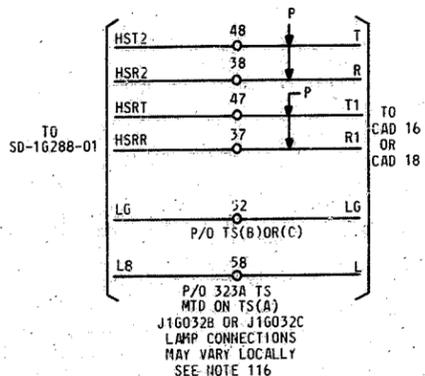
CAD 10
OW WITH CONFERENCE BRIDGE



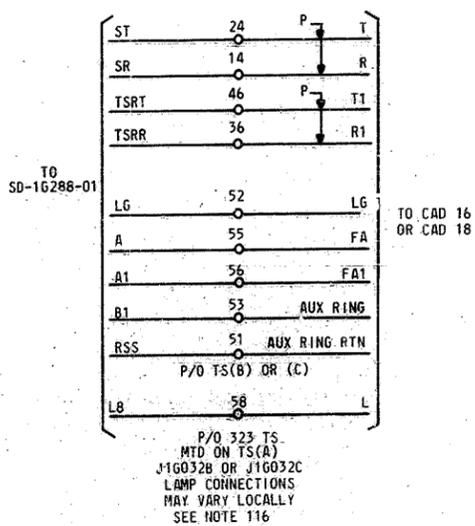
CAD 11 (MFR DISC)
4W ORDER WIRE



CAD 12
T4 ORDER WIRE



CAD 13
SS3 ORDER WIRE



COMMUNICATION PANEL CIRCUIT

DWG SIZE 6S ISSUE 5D

BELL LABORATORIES SD-3C292-01

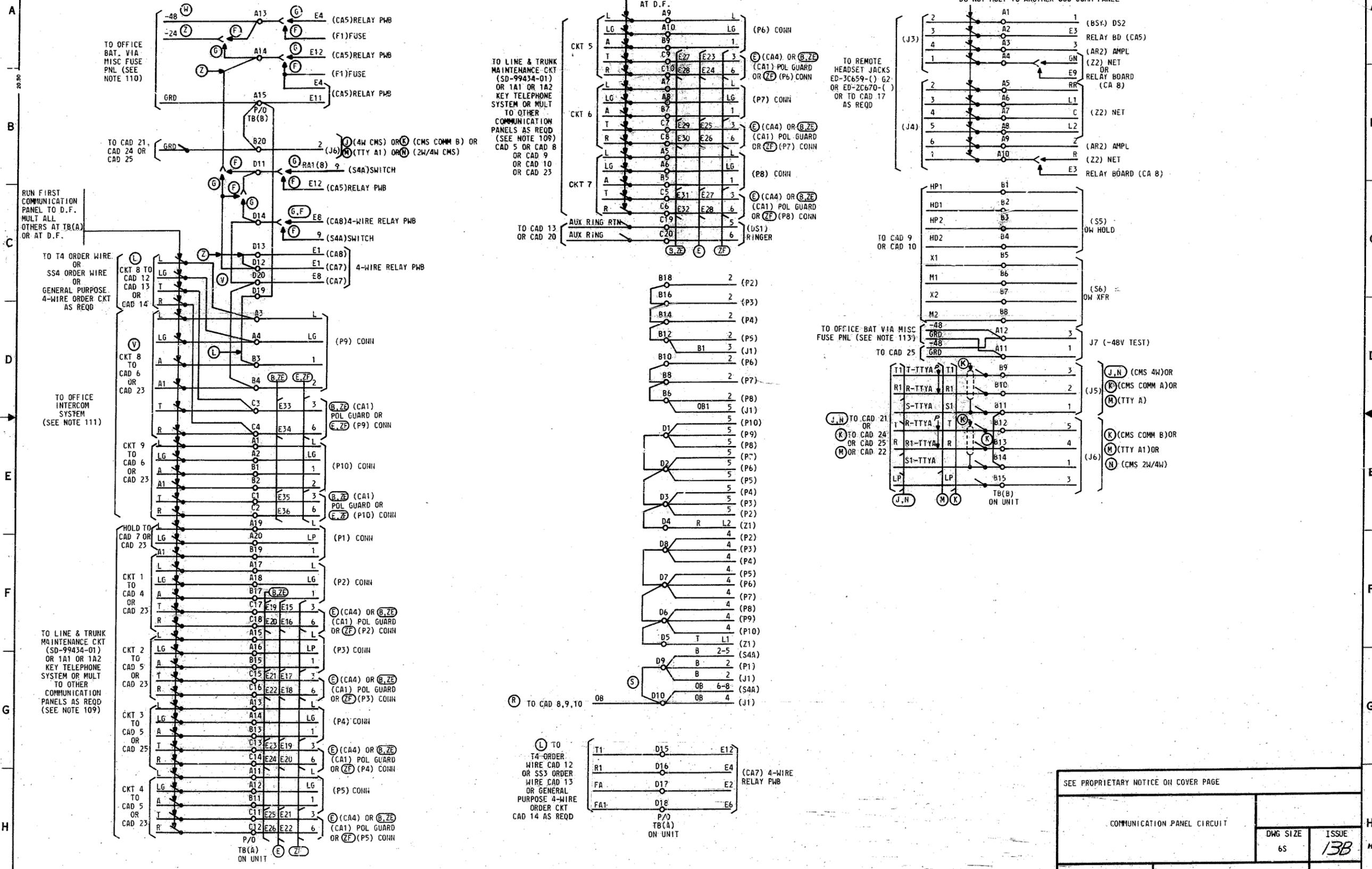
G2

CAD 18

FOR APP FIGS. 4, 9, 10, 15 TO 18
(SEE NOTE 307)

CAD 19

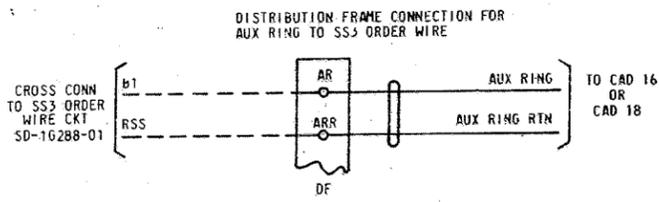
FOR APP FIGS 11, 12, 13 AND 14
MULT ONLY TO OTHER REMOTE HEADSET JACKS ED-3C659- () G2
CAD 2 OR CAD 17(DP) AS REQD.
DO NOT MULT TO ANOTHER 660 COMM PANEL



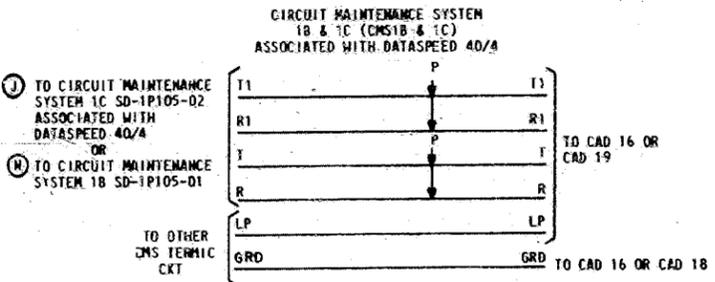
SEE PROPRIETARY NOTICE ON COVER PAGE

COMMUNICATION PANEL CIRCUIT		DWG SIZE	ISSUE
		6S	13B
AT&T BELL LABORATORIES	SD-3C292-01	64	

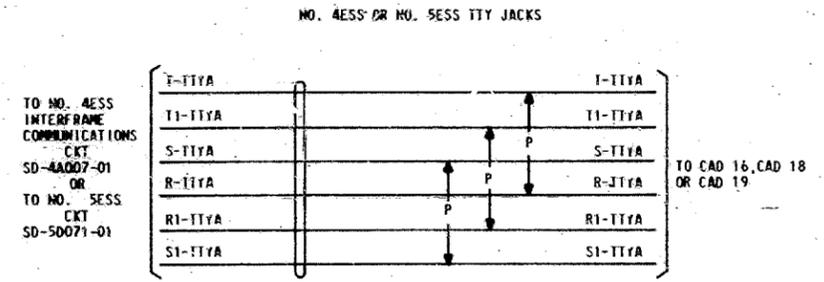
CAD 20



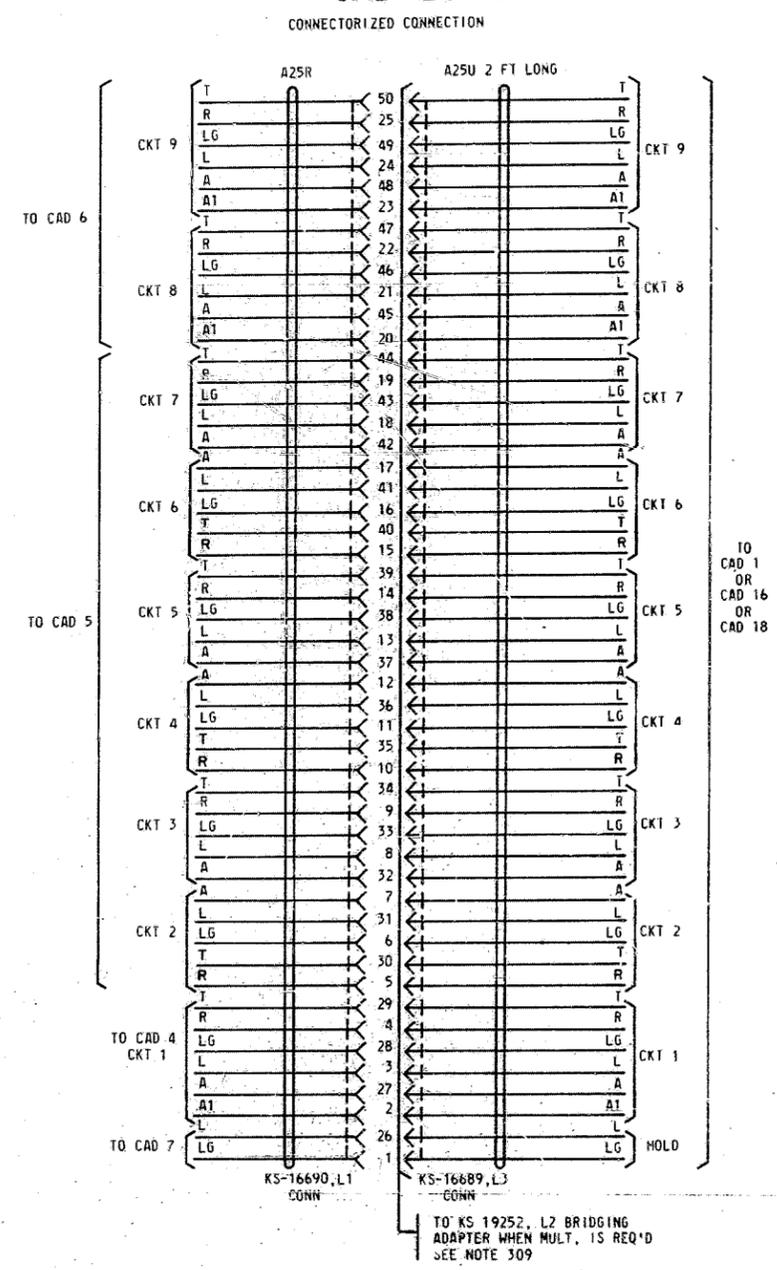
CAD 21



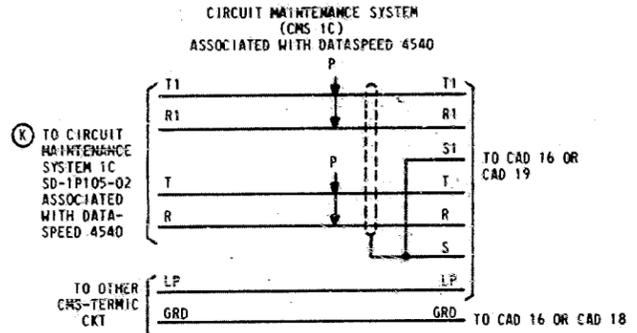
CAD 22



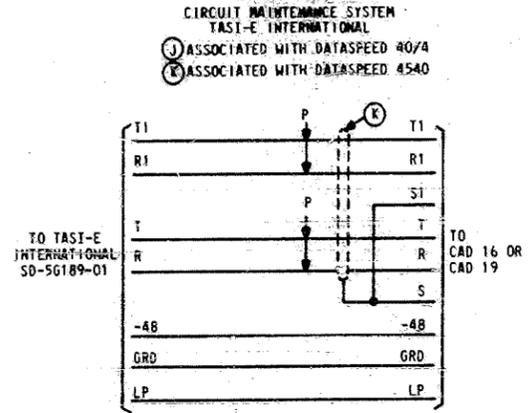
CAD 23



CAD 24



CAD 25

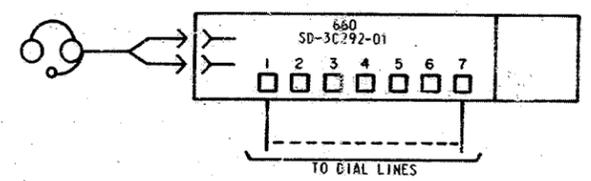


COMMUNICATION PANEL CIRCUIT		DMG SIZE	ISSUE
		65	10B
BELL LABORATORIES	SD-3C292-01	G5	

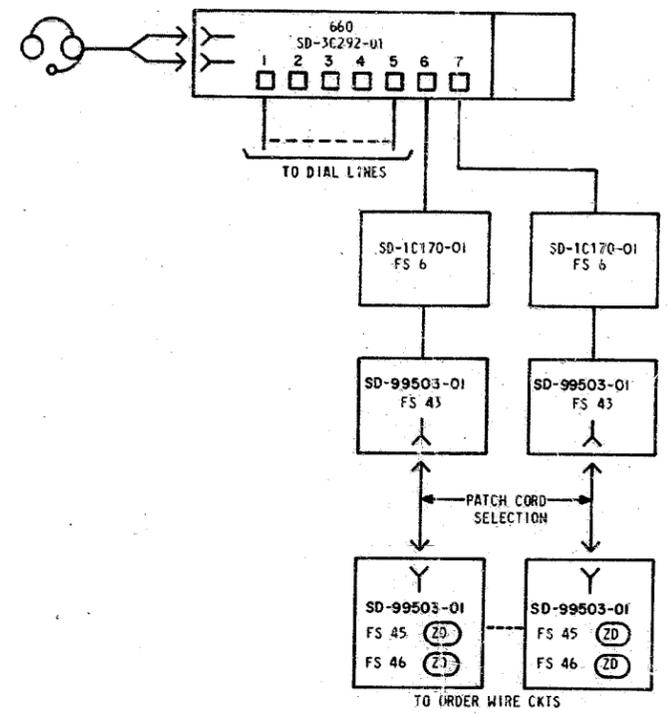
0 1 2 3 4 5 6 7 8 9

A
B
C
D
E
F
G
H

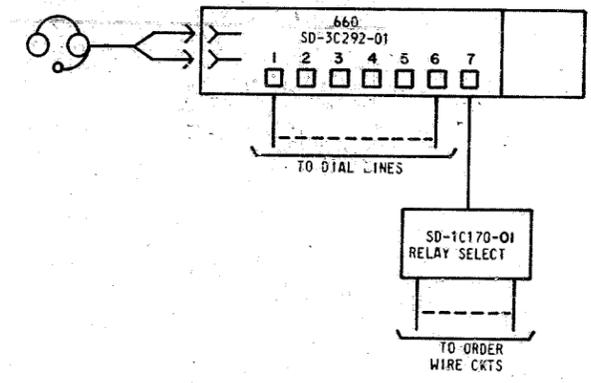
BD 1
660 COMM PANEL
KEY ACCESS DIAL LINES ONLY



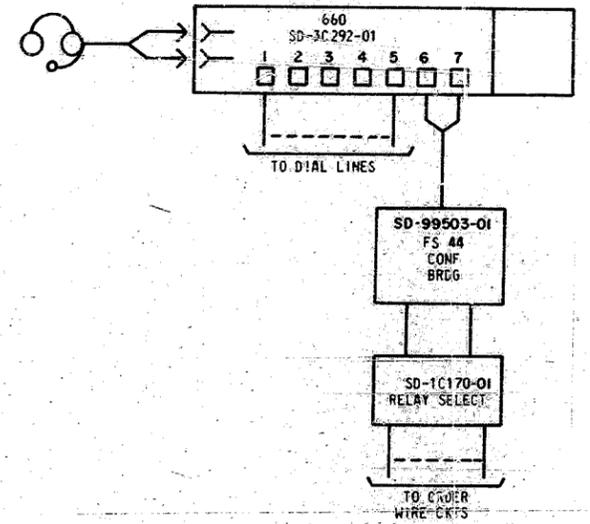
BD 2
660 COMM PANEL
KEY ACCESS DIAL LINES AND
JACK SELECT WITH KEY ACCESS OF
ORDER WIRES
MULTI-KEY CONFERENCE



BD 3
660 COMM PANEL
KEY ACCESS DIAL LINES &
RELAY SELECT WITH KEY ACCESS
OF ORDER WIRES
MULTI-KEY CONFERENCE DIAL
LINES & ONE ORDER WIRE



BD 4
660 COMM PANEL
KEY ACCESS DIAL LINES &
RELAY SELECT WITH BRIDGE CONFERENCE
& KEY ACCESS OF ORDER WIRES



COMMUNICATION PANEL CIRCUIT		DWG SIZE	ISSUE
		6S	6B
BELL LABORATORIES	SD-3C292-01	HI	

0 1 2 3 4 5 6 7 8 9