

SHEET INDEX

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DWG ISSUE	CD ISSUE	DATE ISSUED	DRAWN	APPD
1	1	6-25-70	HBN	FD VLS AFR

SUPPORTING INFORMATION

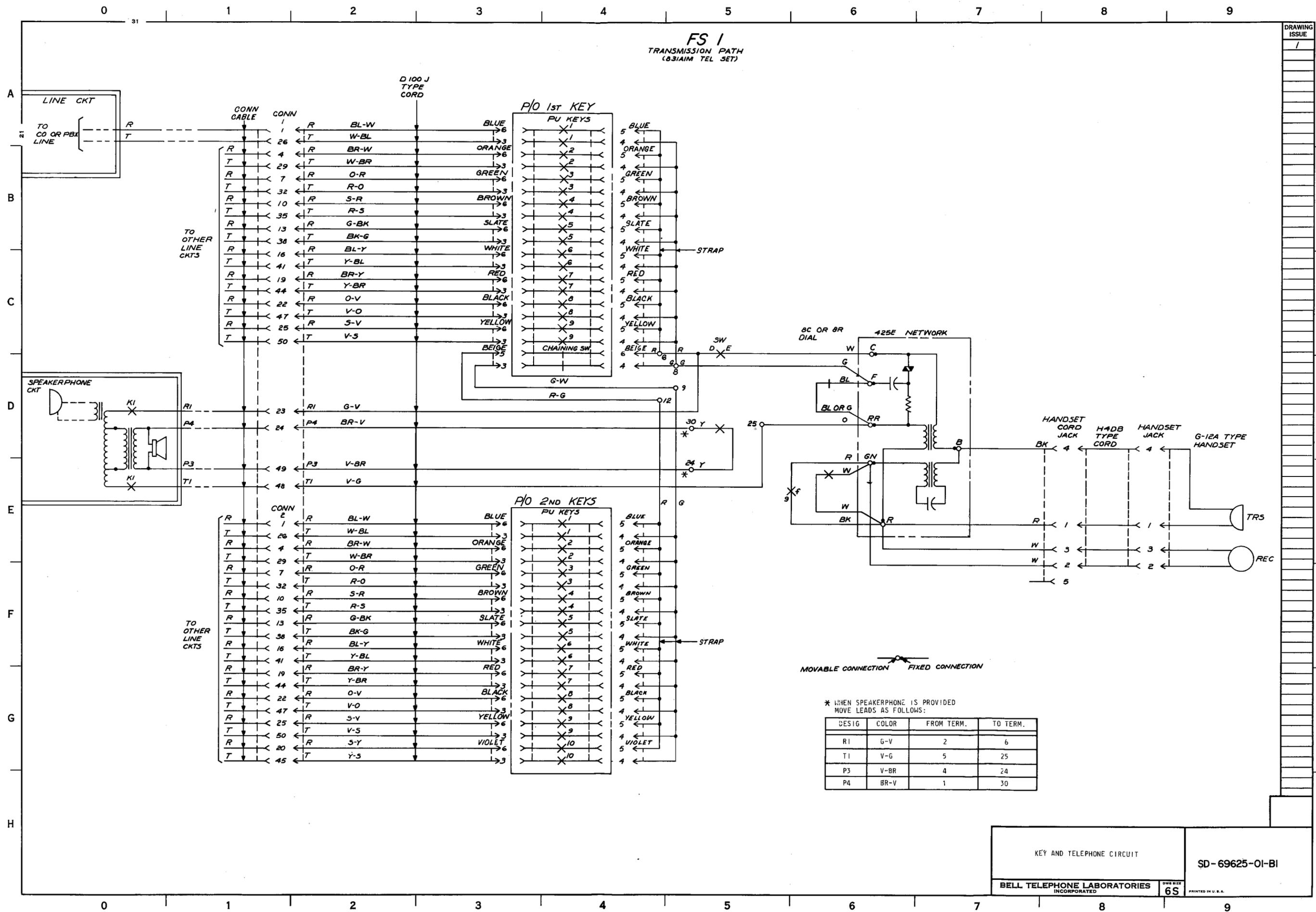
CATEGORY	NO.

SHEET INDEX NOTES

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.

SD- 69625-01	1K03	AT&TCO. STANDARD
STATION SYSTEMS		
KEY AND TELEPHONE CIRCUIT FOR ROTARY AND TOUCH-TONE DIAL 20-BUTTON TELEPHONE SETS		
831 A1M AND 2831 A1M TELEPHONE SETS		
BELL TELEPHONE LABORATORIES INCORPORATED		SD- 69625-01-A1
DWG SIZE 3S		9 SHEETS PRINTED IN U.S.A.

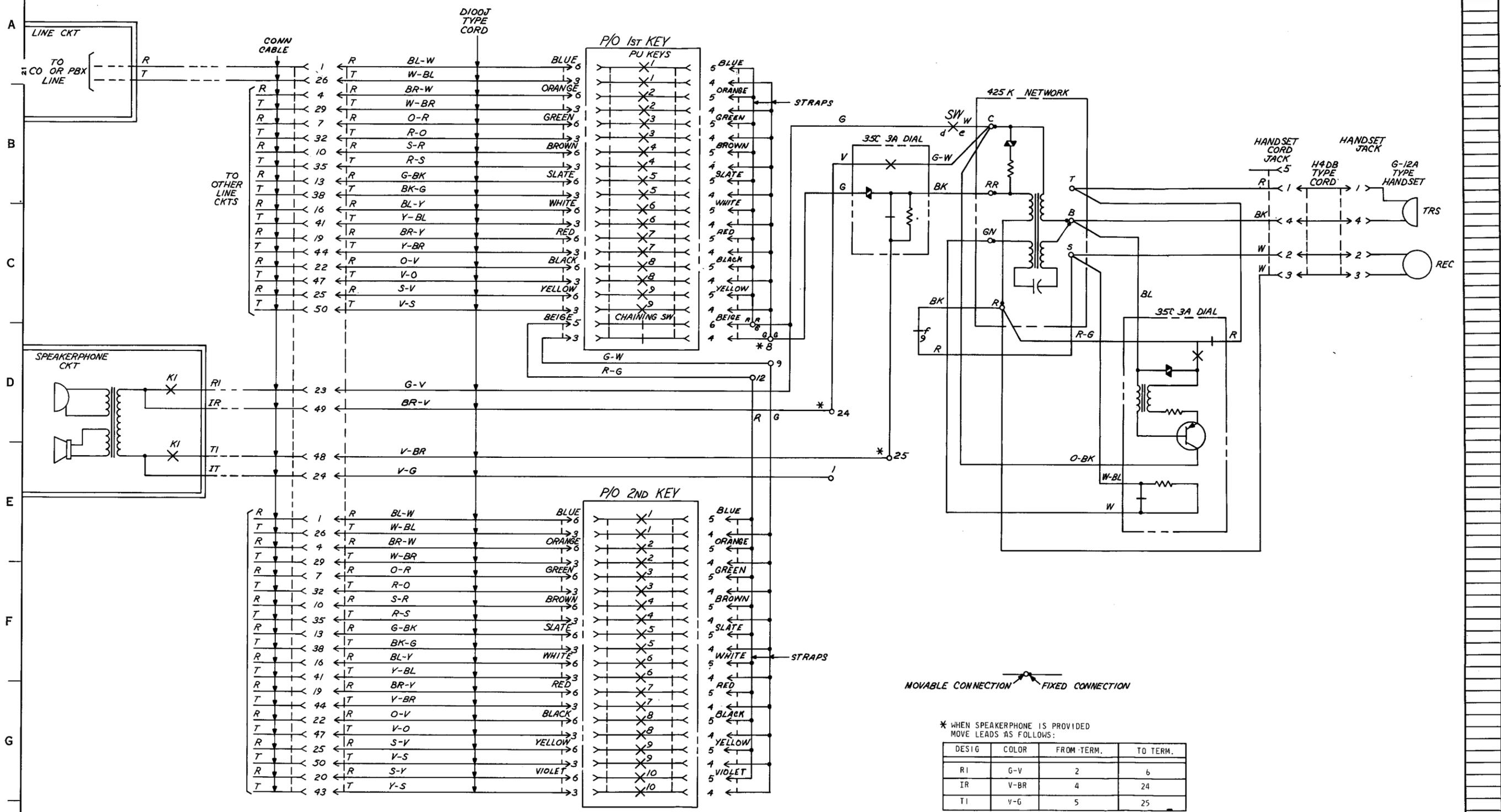
FS 1
TRANSMISSION PATH
(831A1M TEL SET)



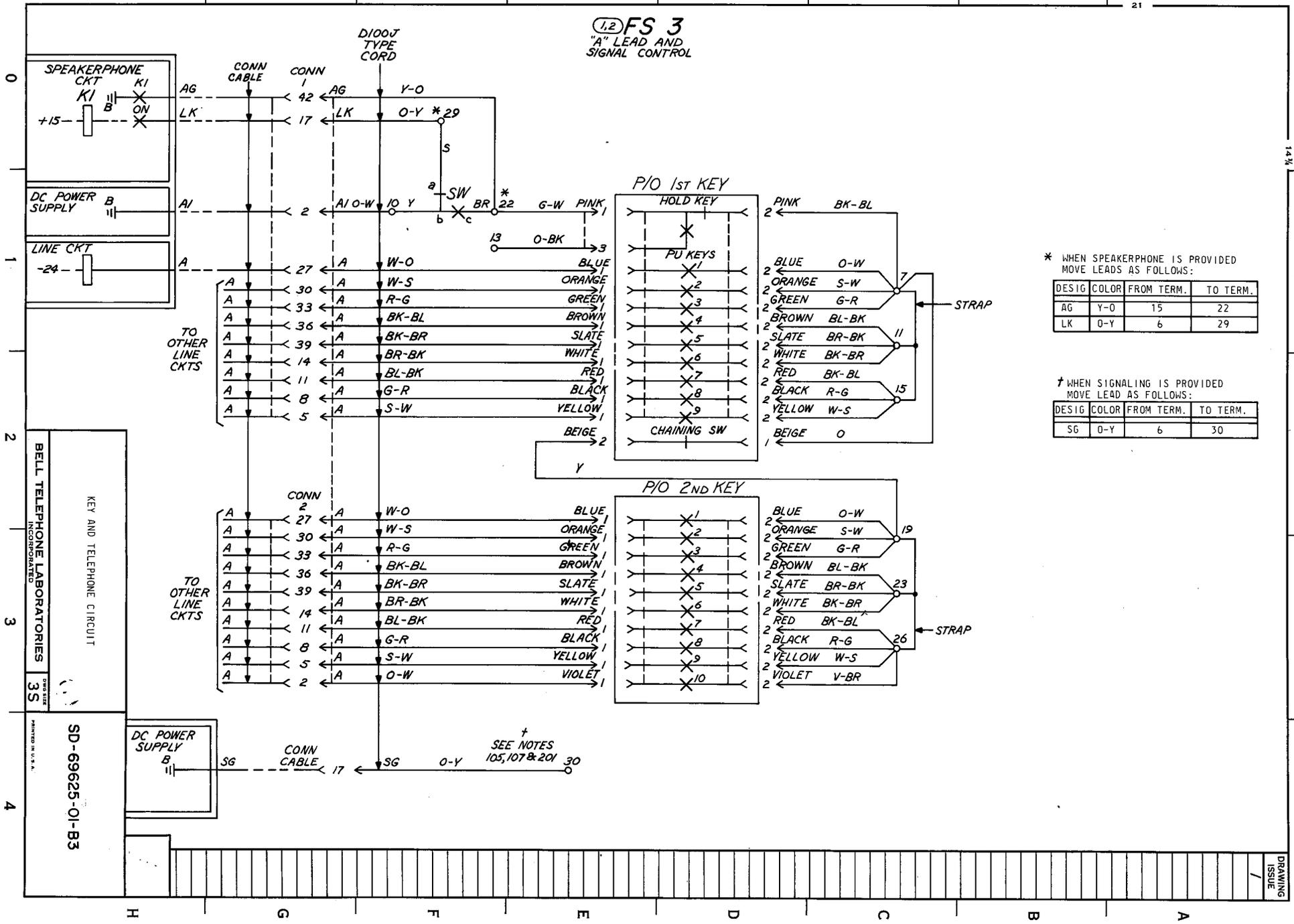
* WHEN SPEAKERPHONE IS PROVIDED
MOVE LEADS AS FOLLOWS:

DESIG	COLOR	FROM TERM.	TO TERM.
R1	G-V	2	6
T1	V-G	5	25
P3	V-BR	4	24
P4	BR-V	1	30

© FS 2
TRANSMISSION PATH
(2831A/M TEL SET)



1,2 FS 3
 "A" LEAD AND
 SIGNAL CONTROL



* WHEN SPEAKERPHONE IS PROVIDED
 MOVE LEADS AS FOLLOWS:

DESIG	COLOR	FROM TERM.	TO TERM.
AG	Y-O	15	22
LK	O-Y	6	29

† WHEN SIGNALING IS PROVIDED
 MOVE LEAD AS FOLLOWS:

DESIG	COLOR	FROM TERM.	TO TERM.
SG	O-Y	6	30

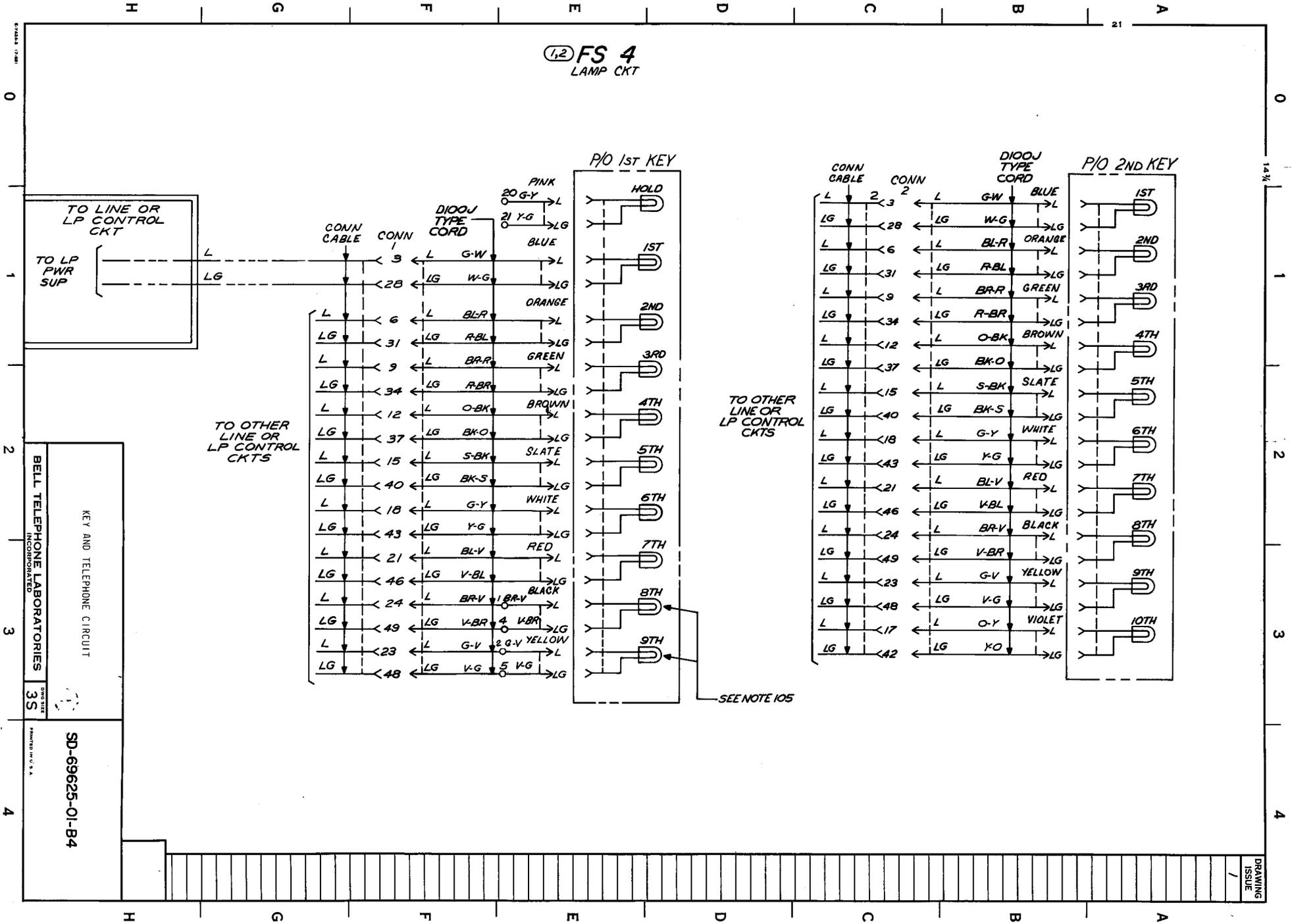
† SEE NOTES
 105, 107 & 201

BELL TELEPHONE LABORATORIES
 INCORPORATED
 KEY AND TELEPHONE CIRCUIT
 SD-69625-01-B3
 35

DC POWER SUPPLY
 B

DRAWING
 ISSUE

1/2 FS 4
LAMP CKT



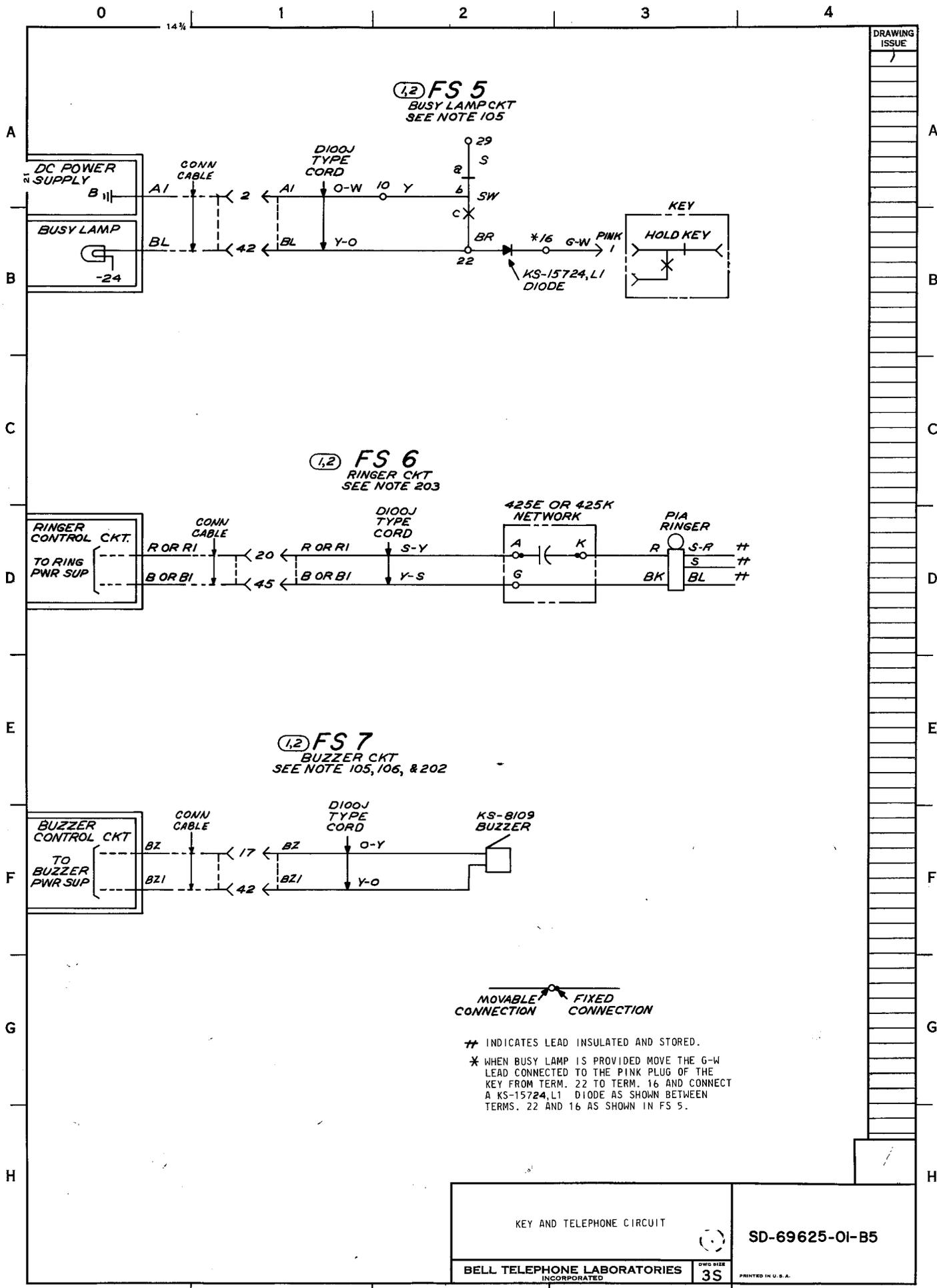
BELL TELEPHONE LABORATORIES
INCORPORATED

KEY AND TELEPHONE CIRCUIT

3S

SD-69625-01-B4

DRAWING
ISSUE



DRAWING ISSUE

1

A

B

C

D

E

F

G

H

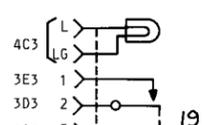
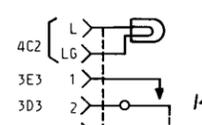
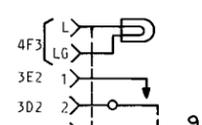
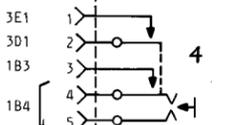
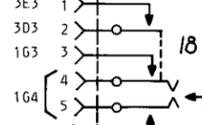
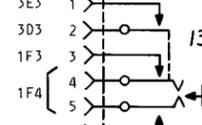
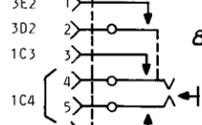
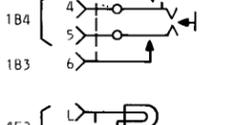
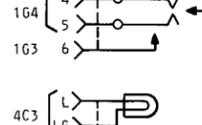
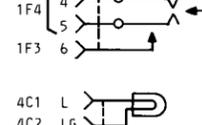
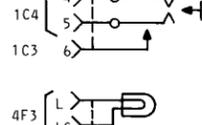
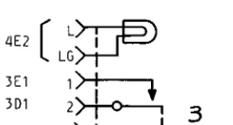
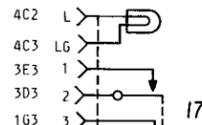
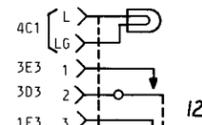
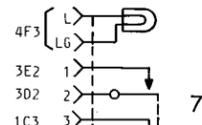
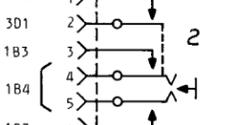
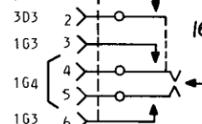
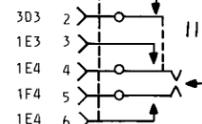
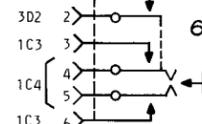
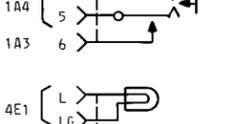
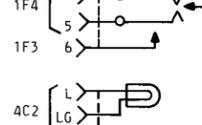
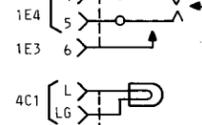
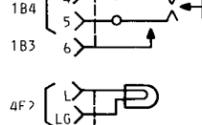
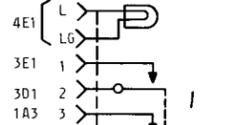
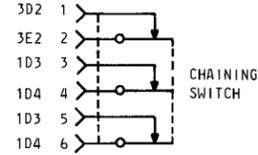
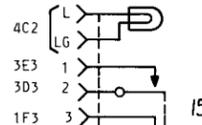
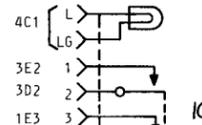
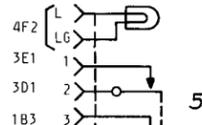
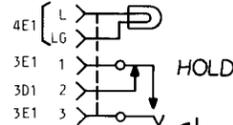
APP FIG. 1

CORD
D100J

CONDUCTOR			CONDUCTOR			CONDUCTOR		
PIN	WIRE COLOR	LOC	PIN	WIRE COLOR	LOC	PIN	WIRE COLOR	LOC
1	BL-W	1A1	34	R-BR	4F2	18	G-Y	4F2
26	W-BL	1A1	10	S-R	1B1	43	Y-G	4F2
2	O-W	3G1, 5A1	35	R-S	1B1	19	BR-Y	1C1
27	W-O	3G1	11	BL-BK	3G2	44	Y-BR	1C1
3	G-W	4F1	36	BK-BL	3G1	20	S-Y	5D1
28	W-G	4F1	12	O-BK	4F2	45	Y-S	5D1
4	BR-W	1B1	37	BK-O	4F2	21	BL-V	4F3
29	W-BR	1B1	13	G-BK	1B1	46	V-BL	4F3
5	S-W	3G2	38	BK-G	1B1	22	O-V	1C1
30	W-S	3G1	14	BR-BK	3G2	47	V-O	1C1
6	BL-R	4F1	39	BK-BR	3G1	23	G-V	4F3, 1D1
31	R-BL	4F1	15	S-BK	4F2	48	V-G	4F3, 1E1
7	O-R	1B1	40	BK-S	4F2	24	BR-V	4F3, 1D1
32	R-O	1B1	16	BL-Y	1C1	49	V-BR	4F3, 1E1
8	G-R	3G2	41	Y-BL	1C1	25	S-V	1C1
33	R-G	3G1	17	O-Y	3G0, 5F1	50	V-S	1C1
9	BR-R	4F2	42	Y-O	3G0, 5B1, 5F1			

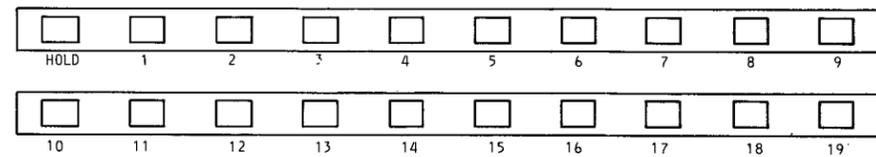
CONNECTOR 1
KEY
DESIG CODE
647A5

CONNECTOR 2
KEY
DESIG CODE
647B5



CORD	LOC	CODE
DESIG	288	H4DB
DIAL		
DESIG	285	35C3A
HANDSET		
DESIG		612A
NETWORK		
DESIG	288	425K
RINGER		
DESIG	5D3	P1A

KEY TOP



TERMINAL BOARD

TERM. NO.	LOC	TERM. NO.	LOC						
1	4E4	7	3C1	13	3F1	19	3C3	25	
2	4E4	8	1D4	14		20	4E1	26	3C3
3		9	1D4	15	3C2	21	4C1	27	
4	4E4	10	5A2	16	5B2	22	3F1, 5B2	28	
5	4E4	11	3C1	17		23	3C3	29	3F0, 5A2
6	1C4	12	1D4	18		24	1E5	30	1D5, 3E4

KEY AND TELEPHONE CIRCUIT

SD-69625-01-CI

BELL TELEPHONE LABORATORIES
INCORPORATED

DWG SIZE
6S

PRINTED IN U.S.A.

APP FIG. 2

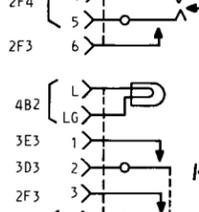
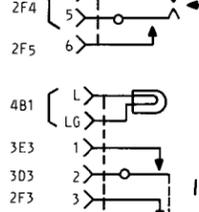
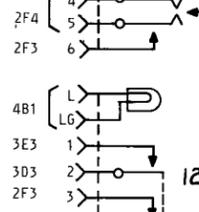
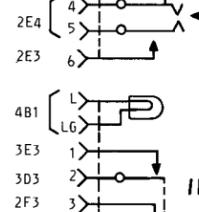
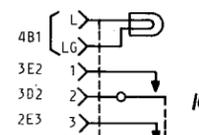
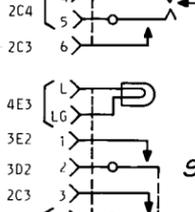
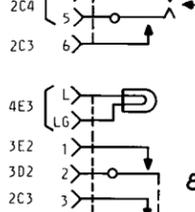
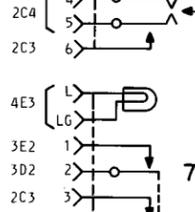
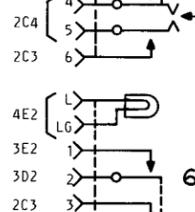
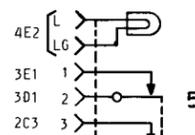
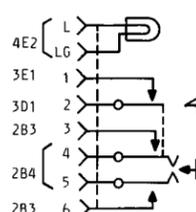
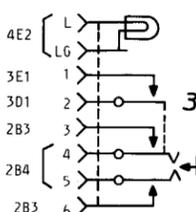
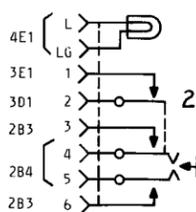
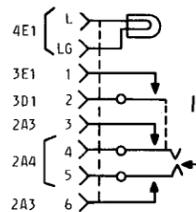
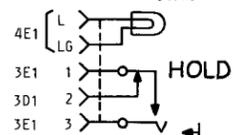
CORD
D100J

CONNECTOR 1

CONDUCTOR			CONDUCTOR			CONDUCTOR		
PIN	WIRE COLOR	LOC	PIN	WIRE COLOR	LOC	PIN	WIRE COLOR	LOC
1	BL-W	2A1	34	R-BR	4F2	18	G-Y	4F2
26	W-BL	2A1	10	S-R	2B1	43	Y-G	4F2
2	O-W	5A1, 3G1	35	R-S	2B1	19	BR-Y	2C1
27	W-O	3G1	11	BL-BK	3G2	44	Y-BR	2C1
3	G-W	4F1	36	BK-BL	3G1	20	S-Y	5D1
28	W-G	4F1	12	O-BK	4F2	45	Y-S	5D1
4	BR-W	2B1	37	BK-O	4F2	21	BL-V	4F3
29	W-BR	2B1	13	G-BK	2B1	46	V-BL	4F3
5	S-W	3G2	38	BK-G	2B1	22	O-V	2C1
30	W-S	3G1	14	BR-BK	3G2	47	V-O	2C1
6	BL-R	4F1	39	BK-BR	3G1	23	G-V	4F3
31	R-BL	4F1	15	S-BK	4F2	48	V-G	4F3
7	O-R	2B1	40	BK-S	4F2	24	BR-V	4F3
32	R-O	2B1	16	BL-Y	2C1	49	V-BR	4F3
8	G-R	3G2	41	Y-BL	2C1	25	S-V	2C1
33	R-G	3G1	17	O-Y	5F1, 3G0	50	V-S	2C1
9	BR-R	4F2	42	Y-O	3G0, 5B1, 5F1			

CONNECTOR 1

KEY
DESIG CODE
647A5



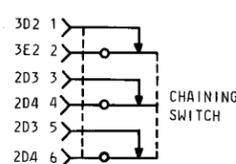
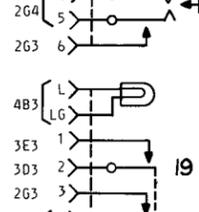
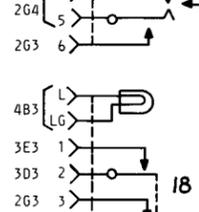
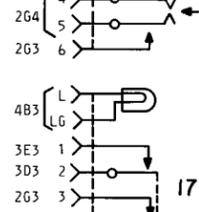
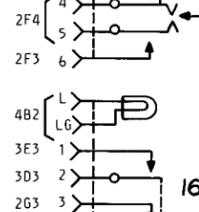
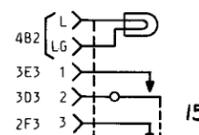
CORD
D100J

CONNECTOR 2

CONDUCTOR			CONDUCTOR			CONDUCTOR		
PIN	WIRE COLOR	LOC	PIN	WIRE COLOR	LOC	PIN	WIRE COLOR	LOC
1	BL-W	2E1	34	R-BR	4C1	18	G-Y	4C2
26	W-BL	2E1	10	S-R	2F1	43	Y-G	4C2
2	O-W	5A1, 3G3	35	R-S	2F1	19	BR-Y	2G1
27	W-O	3G2	11	BL-BK	3G3	44	Y-BR	2G1
3	G-W	4C1	36	BK-BL	3G3	20	S-Y	5D1, 2G1
28	W-G	4C1	12	O-BK	4C1	45	Y-S	5D1
4	BR-W	2E1	37	BK-O	4C2	21	BL-V	4C2
29	W-BR	2F1	13	G-BK	2F1	46	V-BL	4C2
5	S-W	3G3	38	BK-G	2F1	22	O-V	2G1
30	W-S	3G3	14	BR-BK	3G3	47	V-O	2G1
6	BL-R	4C1	39	BK-BR	3G3	23	G-V	4C3
31	R-BL	4C1	15	S-BK	4C2	48	V-G	4C3
7	O-R	2F1	40	BK-S	4C2	24	BR-V	4C2
32	R-O	2F1	16	BL-Y	2F1	49	V-BR	4C3
8	G-R	3G3	41	Y-BL	2F1	25	S-V	2G1
33	R-G	3G3	17	O-Y	4C3, 5F1	50	V-S	2G1
9	BR-R	4C1	42	Y-O	4C3, 5B1, 5F1			

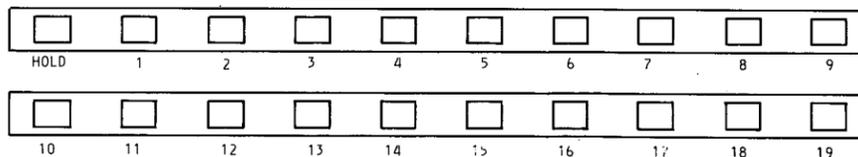
CONNECTOR 2

KEY
DESIG CODE
647B5



CORD	LOC	CODE
DESIG	1D8	H4DB
DIAL		
DESIG	1C6	353CA
HANDSET		
DESIG	1D8	G12A
NETWORK		
DESIG	1D6	425E
RINGER		
DESIG	5D3	P1A

KEY TOP



TERMINAL

TERM. NO.	LOC	TERM. NO.	LOC	TERM. NO.	LOC	TERM. NO.	LOC	TERM. NO.	LOC
1	2E5, 4E4	7	3C1	13	3F1	19	3C3	25	2E5
2	4E4	8		14		20	4E1	26	3C3
3		9		15	3C2	21	4E1	27	
4	4E4	10	5A2	16	5B2	22	5B2, 3F1	28	
5	4E4	11	3C1	17		23	3C3	29	5A2, 3F0
6		12		18		24	2D5	30	3E4

KEY AND TELEPHONE CIRCUIT

SD-69625-01-C2

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