

CIRCUIT NOTES:

DESIG	FUSE AMP	POTENTIAL	ONE PER
1-1/3	48V SIG		20 CKT

102. THIS CKT IS ARRANGED FOR CONVERSION TO SD-66414-02.

FEATURE OR OPTION		PROVIDE	
	FIG	APP OR REQ	QUANTITY
JK CKT FOR 552A, 552D, 605A, OR 701A PBX	2		
JK CKT FOR 606B, 607A, & 607B PBX	3		
608A OR 608D SUBD (SEE NOTE 215)	4, 5	K	
LINE RESTRICTED FROM OUT. CENT. OFF. CALLS		X	
MESSAGE WAITING SERVICE		NOT PROVIDED	Y
WHEN THIS CKT LINE CKT GROUP ALERTING SYS CONNECTS OTHERWISE		Y	
STATION LINE WITHOUT LINE ACCESS TOUCH-TONE CALLING		T	
STATION LINE WITH LINE ACCESS TOUCH-TONE CALLING (SEE NOTE 106)		S, Y	
AUTOMATIC NUMBER IDENTIFICATION (SEE NOTE 213)		R	
ORIGINATOR OF CALLS RESTRICTED BY STATION RESTRICTION CIRCUIT	NO	Q	
	YES	N	

104. WHEN MESSAGE WAITING SERVICE IS PROVIDED IN THE ASSOC STA SET, THE MAX. EXT CKT LOOP IS REDUCED 35 OHMS.

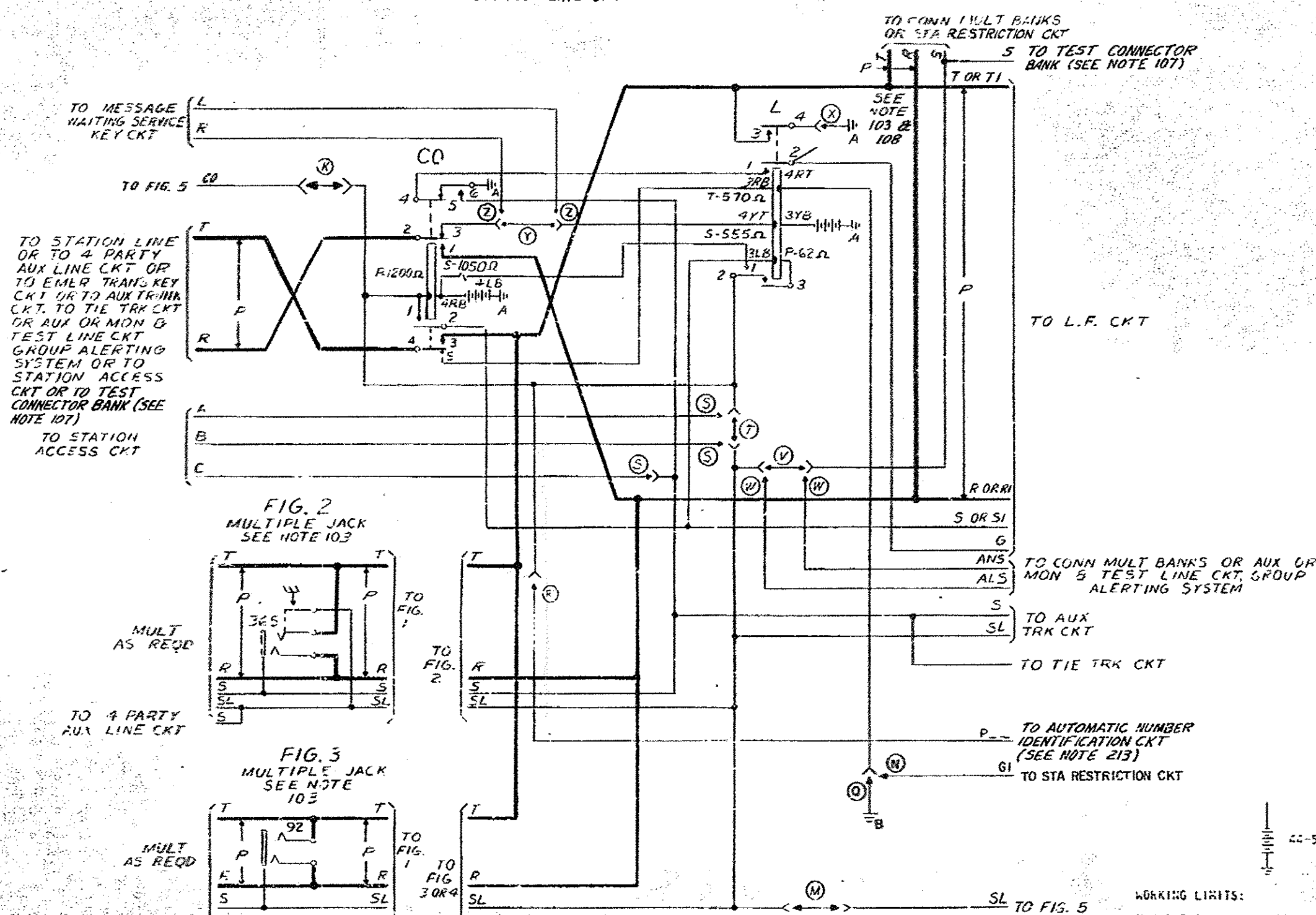
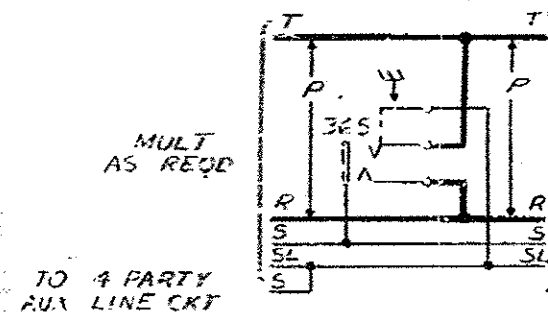
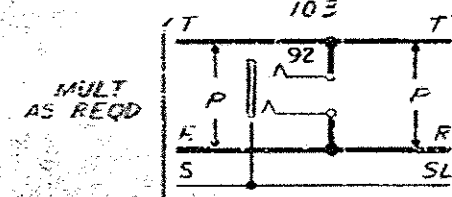
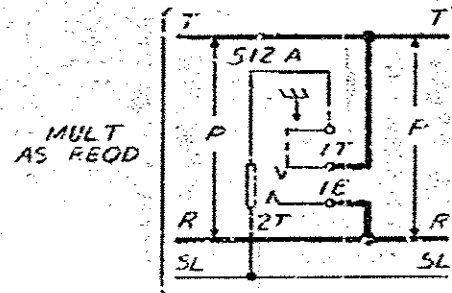
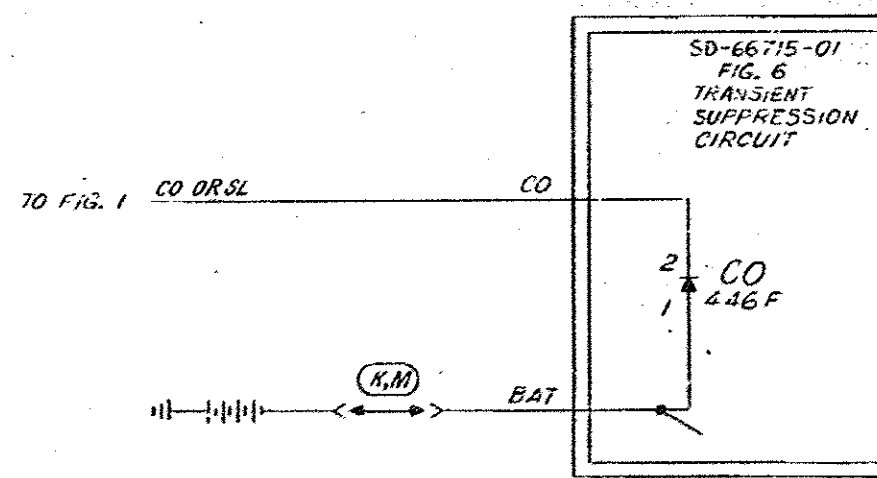
RECORD OF FIGURES, WIRING AND APPARATUS CHANGES					
CHARGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT	
				STD	AS M. MD
16D	Y OR Z	Y	103	Y, Z	
18D	Y OR X	V	103	Y, X	
20D	S OR T	T	103	S, T	
22D	R	NONE	103	R	
24D	N OR Q	Q	103	N, Q	
26AC	M OR FIG. 5	NONE	103	M, FIG. 5	
27D	K	N	103, 215	K	N

106. WHEN LINE ACCESS TOUCH-TONE CALLING IS PROVIDED, THE MESSAGE WAITING SERVICE KEY CKT SHALL BE CONNECTED TO THE STATION ACCESS CKT.

107. WHEN THIS CIRCUIT IS USED IN CONJUNCTION WITH THE TEST CONNECTOR CIRCUIT (SD-65951-01) AND IT IS REQD TO PROVIDE REMOTE TESTING AND/OR DENIAL OF BUSY VERIFICATION OR TESTING OF BUSY DATA LINE STATIONS, THE LEADS INDICATED BY THIS NOTE SHALL BE CROSS CONNECTED TO THE TEST CONNECTOR BANK.

108. FOR UNRESTRICTED SERVICE EITHER OMIT OPTION X OR INSULATE 31(L) RELAY BY MEANS OF A PLASTIC SLEEVE PER P328126.

SD-66414-01

FIG. 1
STATION LINE CKTFIG. 2
MULTIPLE JACK
SEE NOTE 103FIG. 3
MULTIPLE JACK
SEE NOTE 103FIG. 4
MULTIPLE JACK
SEE NOTE 103FIG. 5
TRANSIENT SUPPRESSION
TERMINATION CIRCUIT
(SEE NOTES 109 & 110)

WORKING LIMITS:

MAX EXT CKT LOOP (SEE NOTE 104)	400	600
MIN INS RES	20,000	20,000
MANUAL, PANEL, & CROSSBAR STEP BY STEP	30,000	30,000
FOR BANK TERM. TO HOLDING JAC.		
MAX EXT SLEEVE COND RES	130	

DWG	CD	DWG	CD	DWG	CD
155	155	155	155	155	155
1	1	2A	2A	3L	3L
4D	4D	5D	5D	6D	6D
7D	7D	8D	8D	9D	9D
10D	10D	11D	11D	12D	12D
13D	13D	14D	14D	15D	15D
16D	16D	17A	17A	18D	18D
19D	19D	20D	20D	21D	21D
22D	22D	23D	23D	24D	24D
25D	25D	26D	26D	27D	27D
28D	28D	29D	29D	30D	30D

DWG	CD	DWG	CD	DWG	CD
155	155	155	155	155	155
1	1	2A	2A	3L	3L
4D	4D	5D	5D	6D	6D
7D	7D	8D	8D	9D	9D
10D	10D	11D	11D	12D	12D
13D	13D	14D	14D	15D	15D
16D	16D	17A	17A	18D	18D
19D	19D	20D	20D	21D	21D
22D	22D	23D	23D	24D	24D
25D	25D	26D	26D	27D	27D
28D	28D	29D	29D	30D	30D

ISSUE	28D
REPLACES STATION LINE AND MULTIPLE JK CKT OF SD-66304-01	
SD-66414-01	3J07
PBX SYSTEMS	
NO. 701A OR 711A	
STATION LINE CIRCUIT	
FOR INDIVIDUAL, 2 PARTY SELECTIVE	
OR 4 PARTY SEMI-SELECTIVE LINES	
WITH OR WITHOUT RESTRICTED SERVICE	
(STA L)	
BELL TELEPHONE LABORATORIES	6S
INCORPORATED	

SD-66414-011

FIG. N

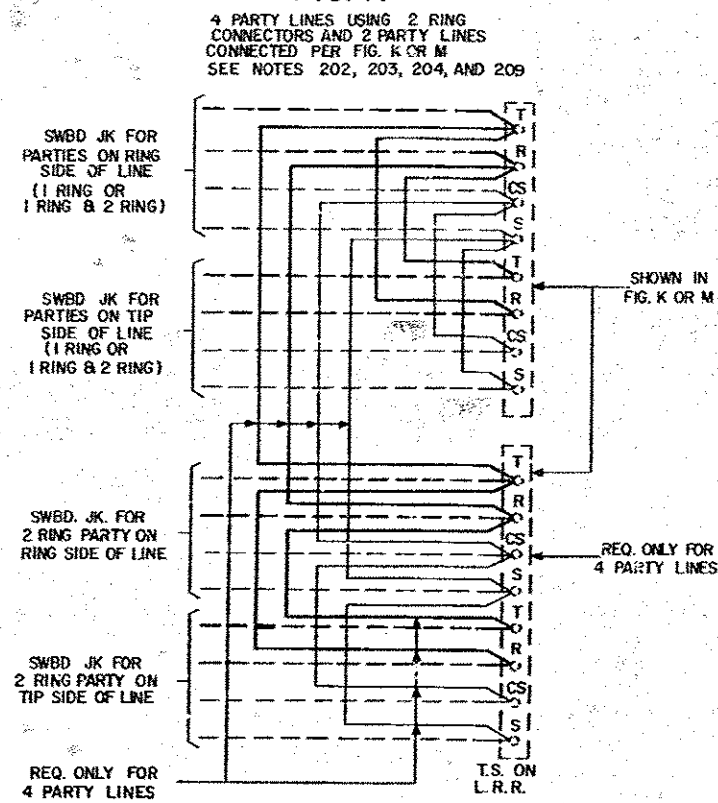


FIG. P

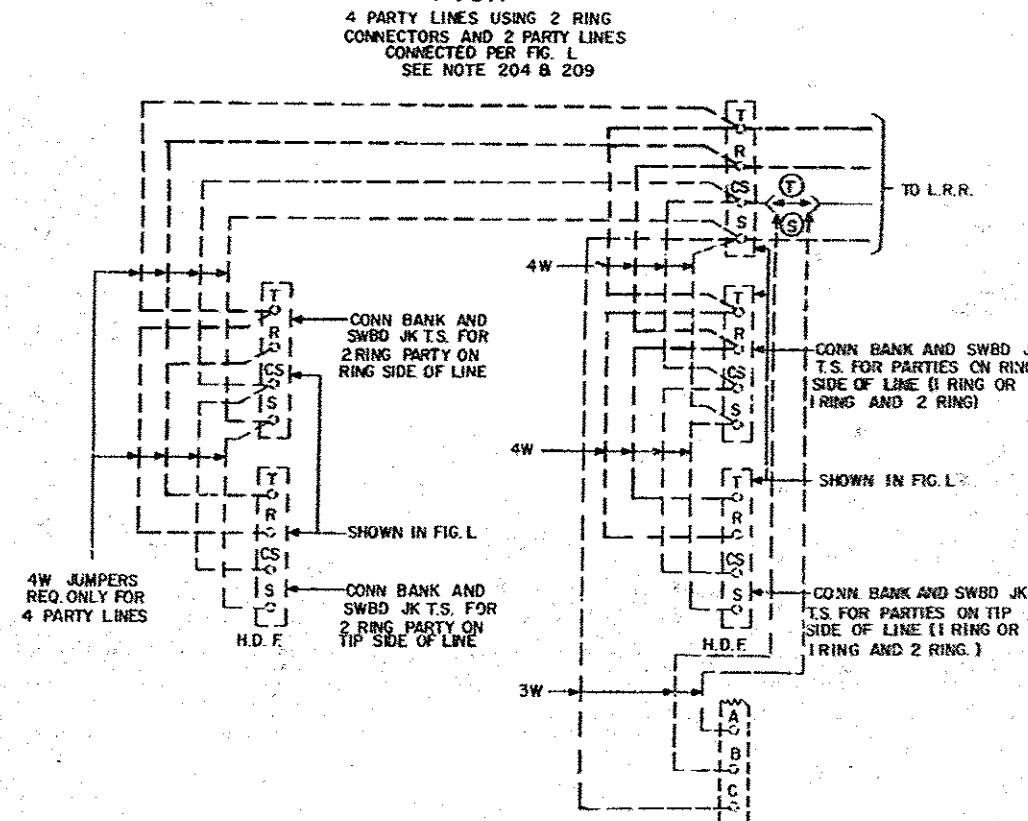


FIG. Q

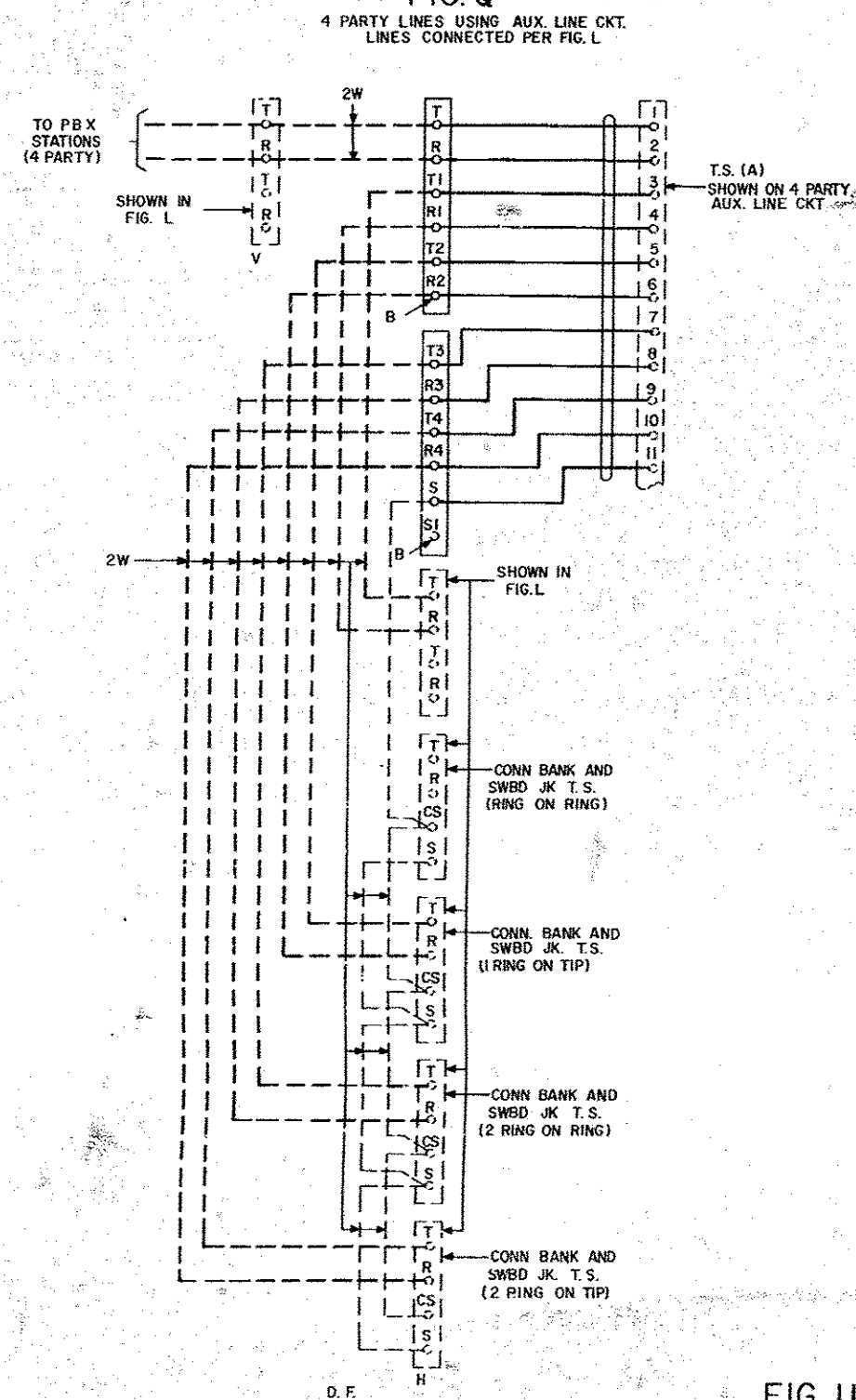


FIG. U

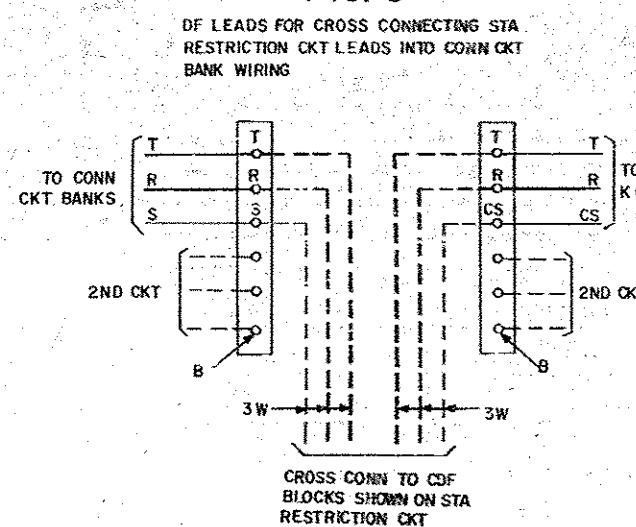


FIG. R

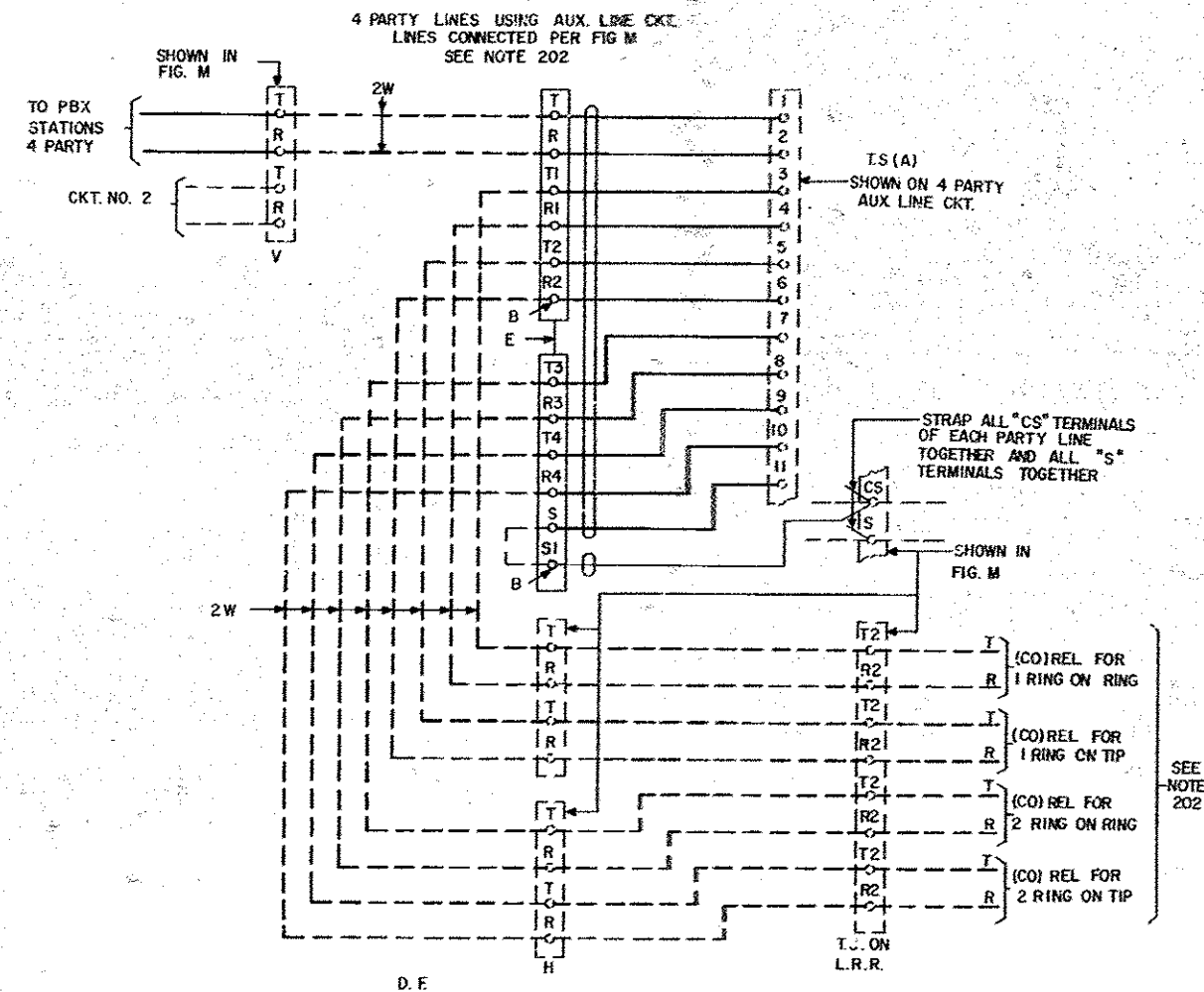


FIG. S

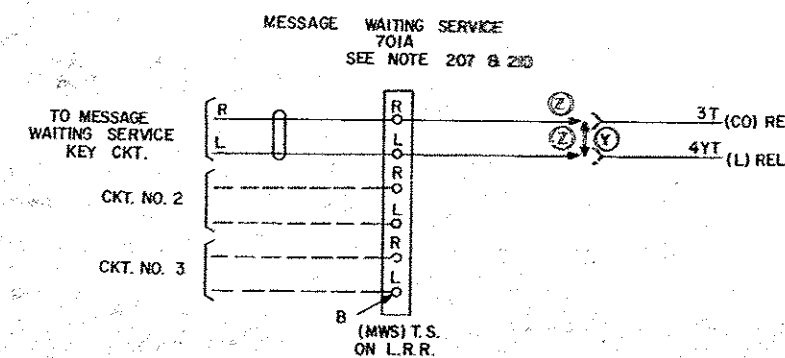


FIG. T

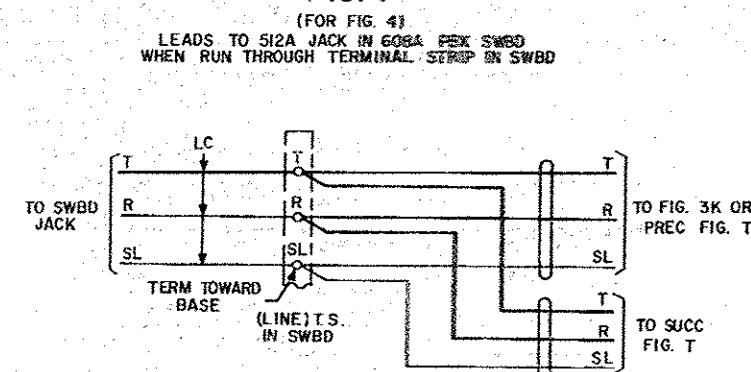
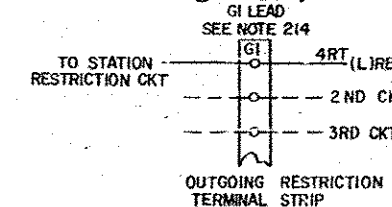


FIG. V



EQUIPMENT NOTES:

201. WHEN EQPT. WIRED FOR SD-66414-01 IS CONVERTED TO EQPT. WIRED FOR SD-66414-02, THE LEADS TO OTHER (L) RELAYS AND THE "G" LEAD TO THE (G) RELAY IN LINE FINDER CKT. SHALL BE REMOVED FROM 2T(L) RELAY AND THE LEAD FROM TERM. "LS" (FIGS. K, L & M, SHALL BE CONNECTED TO 2T (L) RELAY INSTEAD OF TO INNER END "P" WINDING (L) RELAY.
202. WHEN EITHER 2 OR 4 PARTY LINES ARE PROVIDED PER FIG. N REMOVE THE LEADS FROM THE 10, 50 & 3T SPRINGS OF THE (CO) RELAY FOR ALL PARTIES EXCEPT FOR THE "1 RING ON RING" PARTY. WHEN 4 PARTY LINES ARE PROVIDED PER FIG. R REMOVE THE LEADS FROM THE 10, 50 & 3T SPRINGS AND CONNECT THE 30 SPRING TO THE 40 AND THE 1T TO THE 2T OF THE (CO) RELAY FOR ALL PARTIES EXCEPT FOR THE "1 RING ON RING" PARTY.
203. WHEN 4 PARTY LINES ARE PROVIDED PER FIGS. N AND M, THE WIRING DESIGNATED "A" IN FIG. N SHALL BE OMITTED AND THE RELAY EQUIPMENT FOR THE "1 RING ON RING" PARTY CONNECTED TO THAT FOR THE "2 RING ON RING" PARTY BY JUMPER WIRE AS SHOWN IN FIG. N.
204. WHERE THE "2 RING" CONNECTORS ARE MOUNTED ON THE SAME SHELF WITH THE "1 RING" CONNECTORS AND SEPARATE SWBD JACKS ARE NOT REQ. FOR THE "2 RING" PARTIES, THE CONNECTIONS AT THE LINE RELAY RACK AND THE DISTRIBUTING FRAME WILL BE THE SAME FOR 4 PARTY LINES AS FOR 2 PARTY LINES.
205. THE "S" LEAD SHOWN IN CROSS-CONNECTION FIGS. K, L & M, FORMERLY READ "NOT REQ WITH FIG. 3K" HOWEVER WHEN THE AUX. CKT. UNIT OF THE AUX. TRK. CKT. (FOR USE WITH KEY TEL. SETS) IS ADDED TO EXISTING JOBS IT WILL BE NECESSARY FOR THE INSTALLER TO ADD THE "S" LEAD FROM THE (CO) RELAY TO THE TERM. STRIP ON THE LINE RELAY RACK.
206. WHEN EQPT. WIRED FOR SD-66414-01 IS CONVERTED TO EQPT. WIRED FOR SD-66414-02 "W" OPTION, REMOVE LEADS TO 3T & 4T (L) RELAY. THE LEADS TO OTHER (L) RELAYS AND THE "G" LEAD TO LINE FINDER CKT. SHALL BE REMOVED FROM 2T(L) RELAY, REMOVE LEAD TO 1T(L) RELAY AND CONNECT TO 2T(L) RELAY. REMOVE LEAD FROM INNER END OF "P" WINDINGS (L) RELAY AND CONNECT TO 4T(L) RELAY AND REMOVE T, R AND S LEADS TO LINE FINDER CKT.
207. WHEN MESSAGE WAITING SERVICE FEATURE IS SPECIFIED DISCONNECT "P" AND ADD "P" OPTION.
208. PRIOR TO ISSUE 100 T, R, AND S LEADS TO SWBD. JACK IN FIG. T WERE SHOWN CONNECTED AT SWBD. CABLE SIDE OF T.S.
209. WHEN STATION ACCESS CIRCUITS ARE PROVIDED FOR TOUCH-TONE CALLING, INSTALL 2, 205A TERMINAL STRIPS ON THE CABLE STRINGER, IMMEDIATELY ABOVE THE L.R.R. REMOVE THE CROSS CONNECTION BETWEEN THE HOUSE CABLE PAIR AND THE ASSIGNED STATION EQUIPMENT AND INSTALL THE CROSS CONNECTIONS FROM THE 205A TERMINAL STRIP AND THE ASSIGNED STATION. REMOVE THE "P" WIRE ON THE EQUIPMENT SIDE AND SPLICE, TAPE AND TURN BACK THIS "P" WIRE, AND CONNECT THE "B" WIRE AS SHOWN.
210. WHEN MESSAGE WAITING SERVICE IS REQUIRED ON STATION LINES CONNECTED TO STATION ACCESS CIRCUITS, THE CALLS WAITING SHALL BE CONNECTED AS INDICATED ON THE STATION ACCESS CIRCUIT DRAWING.
211. WHEN AUTOMATIC NUMBER IDENTIFICATION IS REQUIRED ON STATION LINES CONNECTED TO STATION ACCESS CIRCUITS, CONNECT THE P- LEAD TO THE ASSOCIATED "A" PUNCHING OF THE 205A TERMINAL STRIP.
212. STATION RESTRICTION CIRCUIT IS TO BE USED WITH INDIVIDUAL LINES ONLY.
213. LEAD P- MAY BE CONNECTED TO TERMINAL CS OF THE CONNECTOR PER FIG. L, IF AN ASSOCIATED CIRCUIT IS NOT INSERTED BETWEEN LINE RELAY TERM. STRIP AND CONNECTOR CKT. BANK TERMINAL STRIP ON THE H.D.F. IF AN ASSOCIATED CKT IS INTERPOSED, LEAD P- MUST BE CONNECTED TO PUNCHING CS (TERMINAL STRIP ON LINE RELAY RACK) AND APPROPRIATE RECORDS MAINTAINED TO DERIVE THE STATION NUMBER FROM THE LINE TERMINAL NUMBER.
214. WHEN OUTGOING RESTRICTION IS REQUIRED, THE INSTALLER SHALL DISCONNECT THE GROUND LEADS FROM TERMINALS 4RT OF THE L RELAYS ASSOCIATED WITH THE STATION LINES TO BE SO RESTRICTED AND LOOSE WIRE FROM THESE TERMINALS TO PUNCHINGS ON THE OUTGOING RESTRICTION TERMINAL STRIP FOR CONNECTION TO THE STATION RESTRICTION CIRCUITS.
215. SEE J58824CM ENGINEERING NOTES FOR APPLICATION OF OPTION K AND FIG. 5.

FIG. K

STATION LINE CKT. NO SEPARATE D.F.
NOT TO BE USED FOR 4 PARTY LINE WITH AUX LINE
(SEE FIG. N FOR 4 PARTY LINES WITH 2 RING
CONNECTORS AND FOR 2 PARTY LINES)
SEE EQUIPMENT NOTE 209

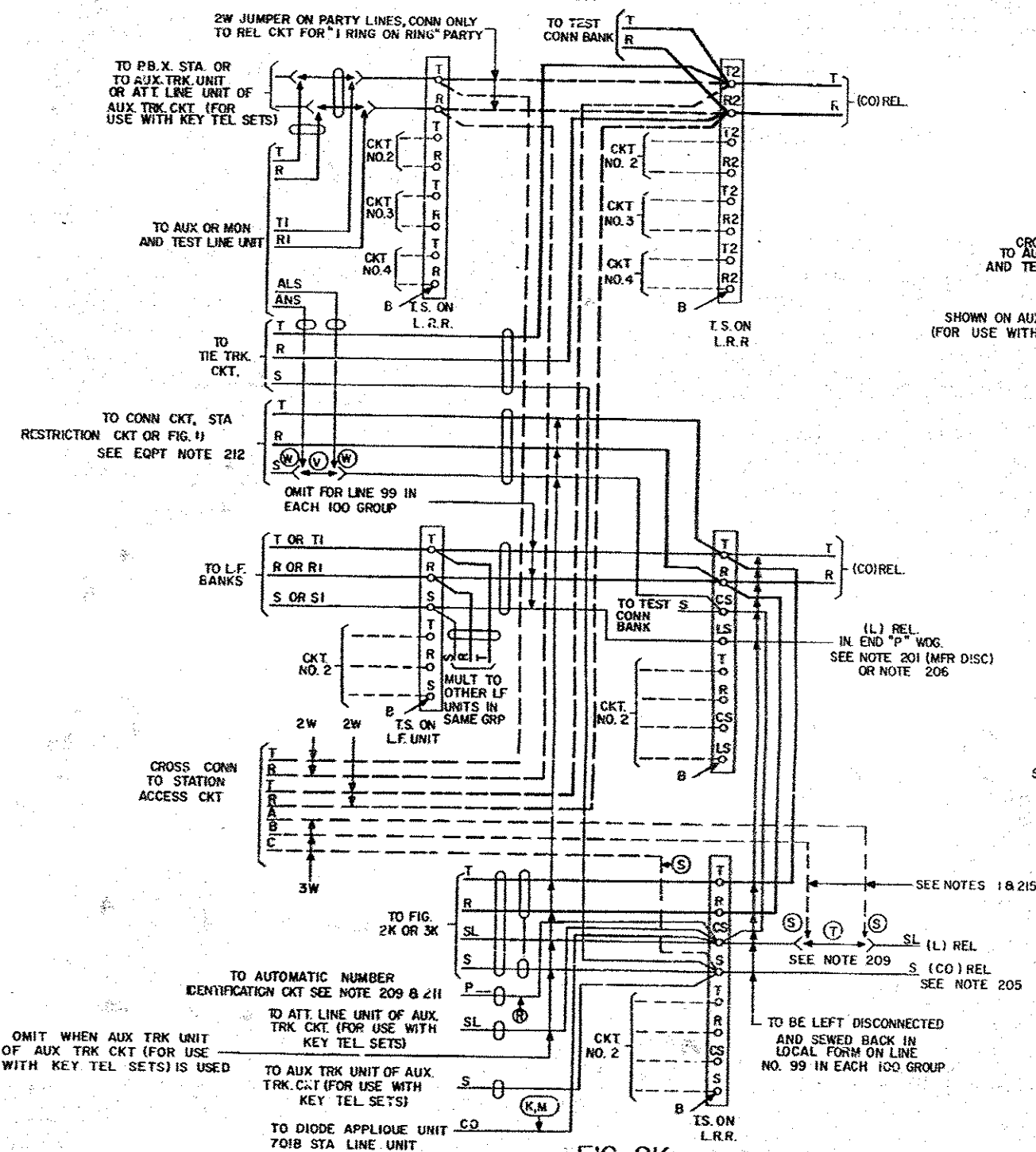


FIG. 2K

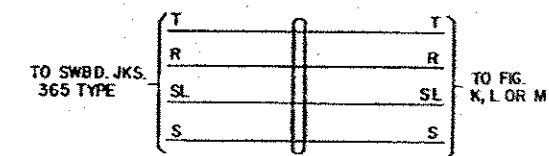


FIG. 3K

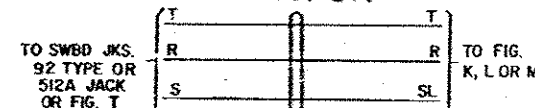


FIG. L

STA. LINE CKT. WITH SEPARATE D.F. ALL LEADS
FROM SWBD. LINE R.R. AND CONN. BANKS TERMINATED AT
D.F. (SEE FIG. P FOR 4 PARTY LINES WITH 2 RING
CONNECTORS AND FOR 2 PARTY LINES AND FIG. Q FOR 4 PARTY
LINES WITH AUX. LINE.)

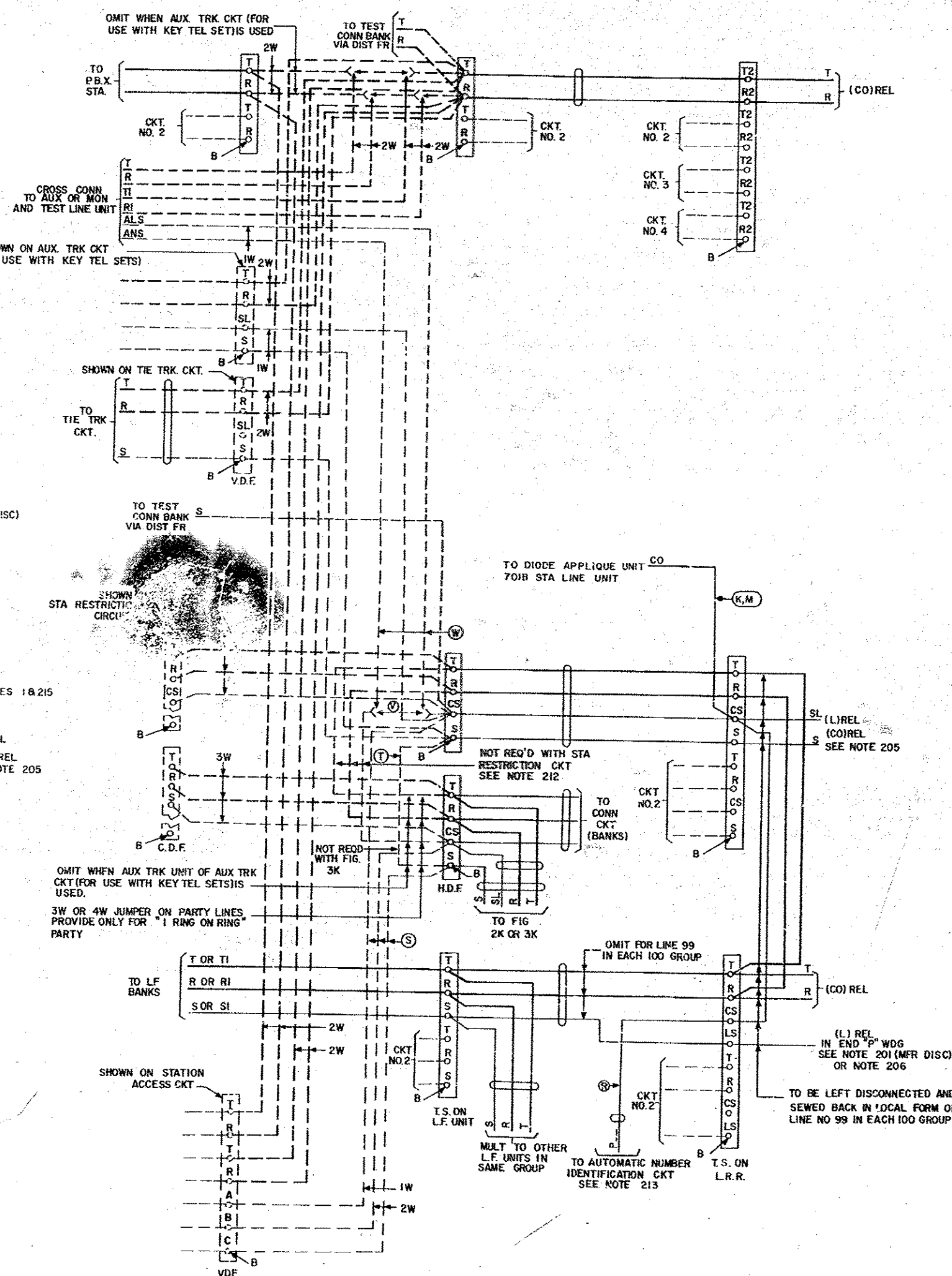
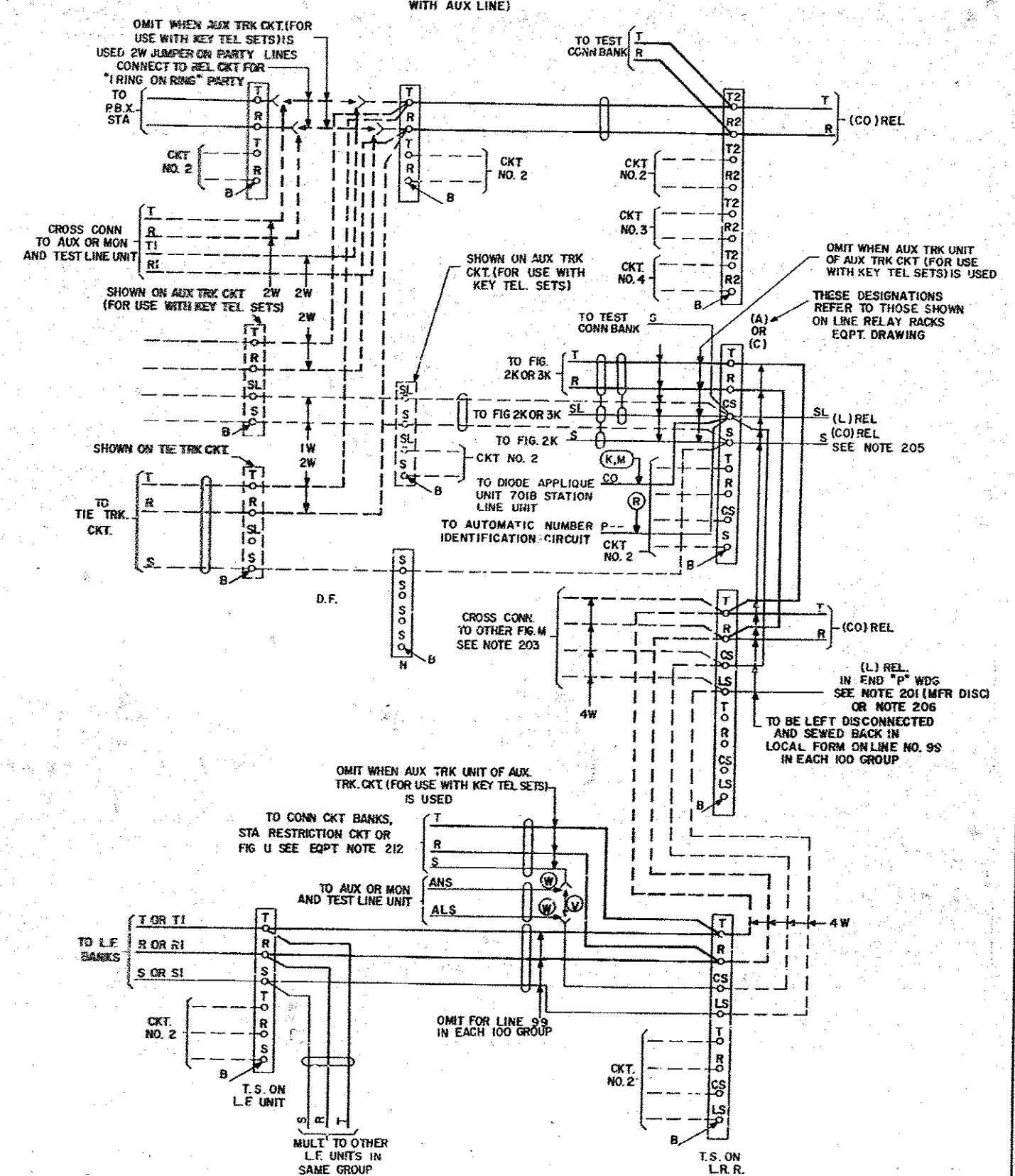


FIG. M

STA. LINE CKT. WITH SEPARATE D.F. ONLY LEADS FROM
PBX. STA. OR AUX. TRK. UNIT (FOR USE WITH KEY TEL. SETS)
TO LINE R.R. TERMINATED AT D.F. ARRANGED TO CROSS
CONNECT TO INCPY. TRK. AT LINE R.R.
(SEE FIG. N FOR 4 PARTY LINES WITH 2 RING CONNECTORS
AND FOR 2 PARTY LINES AND FIG. R FOR 4 PARTY LINES
WITH AUX. LINE.)



NOTES:

1. WHEN THE STATION ACCESS CIRCUIT IS PROVIDED ON FIG. K, OPTION "S", CONNECT DIODES TO RELAY SIDE OF 266A TERMINAL STRIP PER NOTE 209.

SD-66414-01		CIRCUIT REQUIREMENTS															DRAWING	
		NO. 701A OR 711A STATION LINE CIRCUIT (STA L)															ISSUE	
APPARATUS				MECH REQ		CIRCUIT PREPARATION				TEST SET		DIRECT CURRENT FLOW REQ				REMARKS		
DESIG	CODE	OPT.	FIG.	BSP FIG	CONT PRES	ARM. TRVL	BLOCK OR INSULATE	TEST CLIP DATA		TEST SET PREP	SEC TEST NOTE	TEST WDC	TEST	AFTER SOAK	TEST	READJ		
RELAY								CONN BAT.	CONN GRD					MA	MA	MA		
50	R1902		I	24/8	H	SPL	(L) 0		2B(CO)	GRD	1,4	P	0		24	22.5	INSULATE 1B(CO), 1B(L), & 1T(L)	
							(L) 0		2B(CO)	GRD	4	P	NO		11.1	11.7	INSULATE 1T(L) AND 1B(CO)	
							(L) 0		2B(CO)	GRD	4	P//S	G		54.5			
							(L) 0		2B(CO)	GRD	4	P//S	NO		22			
1	R1910		I	11/4	L	25	(CO)C	5B(CO)	3T(CO)	H		S/T	C		26	24.5		
							(CO)C	5B(CO)	3T(CO)	H		S/T	NO		15	16		
							(CO)C	5B(CO)	3T(CO)	H		S/T	H		23	21.5	ADJ "A"	
							(CO)C		3T(CO)	GRD	3	S	NO		30			
							(CO)C		2B(CO)	GRD	3	P	G		52			
							(CO)C		2B(CO)	GRD	3	P	H		45.5			
							(CO)C	5B(CO)	3T(CO)	H	2	S/T	0		23	21.5	ADJ "B"	
							(CO)C	5B(CO)	3T(CO)	H		S/T	NO		13.6	14.6		
							(CO)C		3T(CO)	GRD		S	NO		27.5			
							(CO)C		2B(CO)	GRD	3	P	0		46			
TEST NOTES:																		
1. ARM. TRVL 3C. PRIOR TO ISSUE 4D, ARM. TRVL WAS 25.																		
2. NO SEPARATORS CAN BE USED ON THIS RELAY WHEN ADJ "B" IS USED.																		
3. CONNECT DIRECT BATTERY 3B(L). INSULATE 1B(CO).																		
4. WHEN TOUCH-TONE CALLING WITH STATION ACCESS CIRCUIT PER SD-66865-01 IS PROVIDED, INSULATE 6B OF THE (AL) REL IN THAT CKT.																		
STATION LINE CIRCUIT										SD-66414-012								
BELL TELEPHONE LABORATORIES INCORPORATED										PRINTED - U. S. A.								

SD-66414-012

STATION LINE CIRCUIT		SD-66414-012	
BELL TELEPHONE LABORATORIES INCORPORATED		PRINTED - U. S. A.	

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