SHEET INDEX

SHEET NO.	CONTENTS
1	SHEET INDEX CIRCUIT NOTES INFORMATION NOTES CROSS-CONNECTING INFORMATION NOTES SUPPORTING INFORMATION TRANSMISSION TEST REQUIREMENTS TABLE FS 1 BRIDGE LIFTER FS 2 BRIDGE LIFTER
2	CAD 1,2,3,4,5,6 APP FIG. 1,2,3,4,5,6,7,8

CIRCUIT NOTES:

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER
BATTERY SYMBOL			VOLTAGE RANGE

102.

FEATURE OR OPTION		PROVIDE APP FIG.	PROVIDE APP OR WRG	PROVIDE QUANTITY
BRIDGE LIFTING CKT	NORMAL BRIDGING REQUIREMENTS	1,3,5 OR 7		ONE PER CKT OR AS REQD BY TELCO
	BRIDGING WHERE 60 CYCLE INDUCTIVE INTERFERENCE IS PRESENT	2,4,6 OR 8		

103.

NETWORK VALUES		
NETWORK NO.	RESISTANCE IN OHMS	CAPACITANCE IN UF

104.

RECORD OF APP FIGURES, WIRING AND APPARATUS CHANGES							
CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT STO	A&M	MD	
20				FIG. 2			
40				FIG.2A			
50	X	Z		X		Z	
50	W	Y		W		Y	

105. INDUCTORS ARE SERIES AIDING FOR (1-2) - (3-4) CONNECTION.

106. THE COILS ARE SATURABLE INDUCTORS HAVING HIGH INDUCTANCE WITH LOOP DC OF LESS THAN 4 MA AND LOW INDUCTANCE FOR LOOP DC OF MORE THAN 10 MA.

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. THE 1680 INDUCTOR IS SIMILAR TO THE 1574 INDUCTOR EXCEPT THAT IT IS MOUNTED IN A HIGH PERMEABILITY METAL CAN FOR CROSSTALK SHIELDING.

CROSS-CONNECTING INFORMATION NOTES:

(MFR / DISC) 401. A LOOP IS CONSIDERED TO BE LONG WHEN:
(a) IT EXCEEDS 6000 FEET NON-LOADED
(b) IT IS LOADED
(c) IT EXCEEDS 3000 FEET WHEN BRIDGED TO A LOADED LOOP

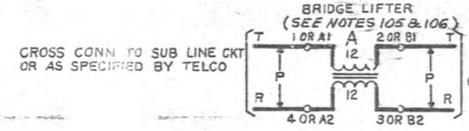
402. TERMINALS MAY BE MULTIPLED AS REQUIRED TO OBTAIN UP TO A MAXIMUM OF FOUR INDUCTORS ON A SINGLE SUBSCRIBER LINE CIRCUIT. THE TERMINALS BEING MULTIPLED NEED NOT ALL APPEAR ON THE SAME TERMINAL BLOCK.

SUPPORTING INFORMATION

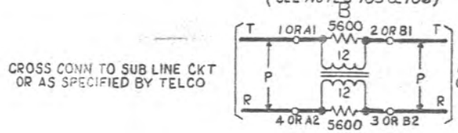
CATEGORY	NO.
EQUIPMENT DRAWINGS	ED-95144-( ) ED-95163-( )
EQUIPMENT DESIGN REQT	J99235 J98020

DWG ISSUE	EE OR CD ISSUE	DATE ISSUED	DRAWN	APPD
1	1	8-17-61	RJB CRA	JEK AAB POB
2D	2D	1-25-62	EDF HP	JEK AAB POB
3D	3D	11-26-63	[illegible] LL	JEK RMW RBD
4D	4D	4-2-65	NR —	DWF RDE VGF
5D	4D APP ID	4-4-73	[illegible] FC	DWF MS FC

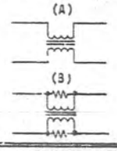
FS 1
BRIDGE LIFTER
(SEE NOTES 105 & 106)



FS 2
BRIDGE LIFTER
(SEE NOTES 105 & 106)



TRANSMISSION TEST REQUIREMENTS
(1000 CYCLE LOSS BETWEEN 600 OHM LINES)



MAX ALLOWABLE CIRCUIT LOSS (DB)	
APP FIG. 1,3,5,7	38.0
APP FIG. 2,4,6,8	20.0

ALLOWABLE INDIVIDUAL APPARATUS LOSSES (DB)

APPARATUS	OPT	DESIG	CODE	MAX LOSS	MIN LOSS	REMARKS
INDUCTOR	Z	A	1574A	38.0	30.0	
INDUCTOR	Y	B	1574B	20.0	15.0	
INDUCTOR	Z	A	1680A	38.0	30.0	
INDUCTOR	Y	B	1680B	20.0	15.0	
INDUCTOR	X	A	1574C	38.0	30.0	
INDUCTOR	W	B	1574D	20.0	15.0	
INDUCTOR	X	A	1680C	38.0	30.0	
INDUCTOR	W	B	1680D	20.0	15.0	

ISSUE 5D

SD-95973-01 IN31

COMMON SYSTEMS

SUBSCRIBER LOOP
BRIDGE LIFTING CIRCUIT

(2)

(BRDG LIFT)

AT&TCO STANDARD

SD-95973-01-1

2 SHEETS

BELL TELEPHONE LABORATORIES INCORPORATED

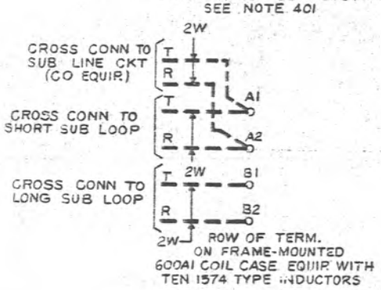
SIZE 6S

PRINTED IN U.S.A.

SD-95973-01-1

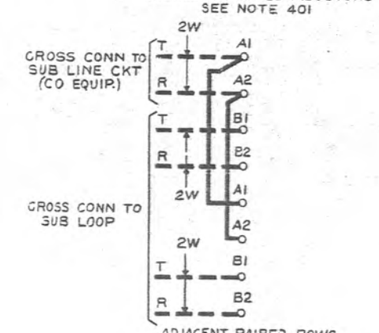
CAD. 1 (MFR DISC.)

(FOR APP FIG. 1)
INDUCTOR IN LONG LOOP ONLY
FRAME-MOUNTED INDUCTORS
SEE NOTE 401



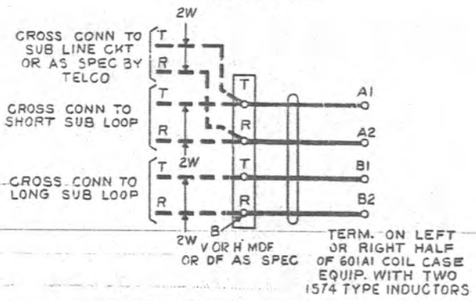
CAD. 2 (MFR DISC.)

(FOR 2 APP FIG. 1)
INDUCTORS IN TWO LONG LOOPS
FRAME-MOUNTED INDUCTORS
SEE NOTE 401



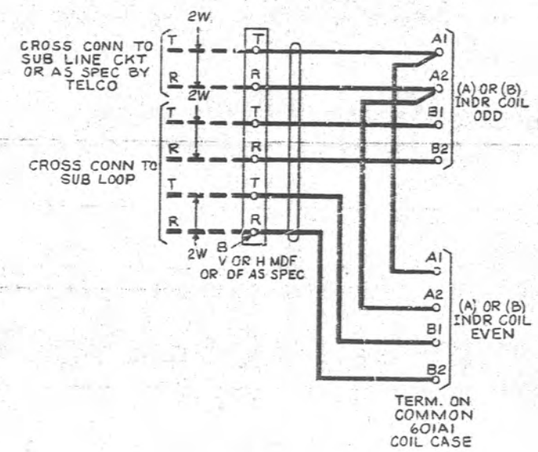
CAD. 3 (MFR DISC)

(FOR APP FIG. 1 OR 2)
INDUCTOR IN LONG LOOP ONLY
RR MOUNTED INDUCTORS
SEE NOTE 401



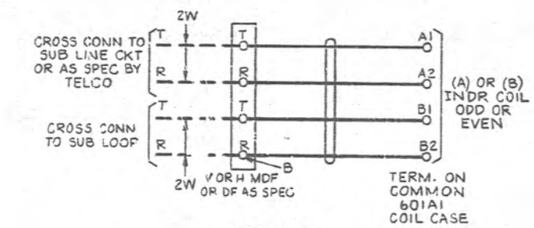
CAD. 4

(FOR APP FIG. 1,2,3 OR 4)
PAIRED RR MOUNTED INDUCTORS
SEE NOTE 401



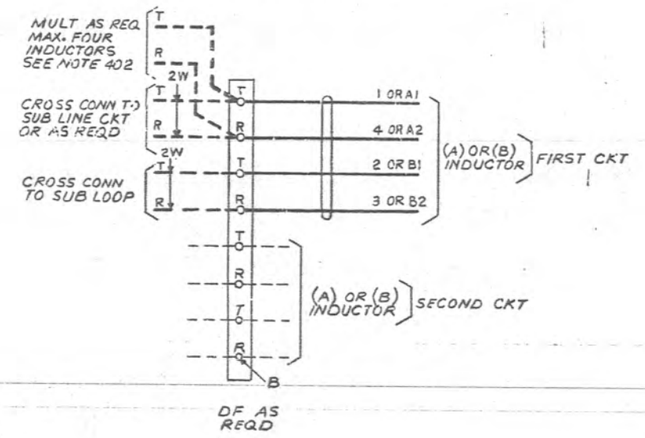
CAD. 5

(FOR APP FIG. 1,2,3 OR 4)
SINGLE INDUCTOR APPLICATIONS
SUCH AS WITH CONCENTRATOR IDENTIFIER



CAD. 6

(FOR APP FIG. 1,2,3,4,5,6,7 OR 8)
FOR SINGLE OR MULTIPLE INDUCTOR APPLICATIONS



APP FIG. 1

	INDUCTOR DESIG	CODE
Z	[2] A	1574A, ASSEMBLED IN ONE 601A1 COIL CASE

APP FIG. 2

	INDUCTOR DESIG	CODE
Y	[2] B	1574B, ASSEMBLED IN ONE 601A1 COIL CASE

APP FIG. 3

	INDUCTOR DESIG	CODE
Z	A	1680A

APP FIG. 4

	INDUCTOR DESIG	CODE
Y	B	1680B

APP FIG. 5

	INDUCTOR DESIG	CODE
X	[2] A	1574C, ASSEMBLED IN ONE 601A1 COIL CASE

APP FIG. 6

	INDUCTOR DESIG	CODE
W	[2] B	1574D, ASSEMBLED IN ONE 601A1 COIL CASE

APP FIG. 7

	INDUCTOR DESIG	CODE
X	A	1680C

APP FIG. 8

	INDUCTOR DESIG	CODE
W	B	1680D

DRAWING ISSUE

1	RJB CRM POB
2D	EAP MH POB
3D	VM LL PLS
4D	MH — JGF
5D	WH

SD-95973-01-2

SUBSCRIBER LOOP
BRIDGE LIFTING CIRCUIT (2) SD-95973-01-2

BELL TELEPHONE LABORATORIES INCORPORATED 6S