TOLL LAYOUT FACILITY RECORDS

1. GENERAL

1.01 This section describes certain standard facility record forms as well as several others which have been printed and used locally by various operating areas to meet the particular needs of their circuit layout assignment and field people who are involved in toll circuit layout work. The latter forms are not being standardized but are included for the information of all Companies.

1.02 Forms illustrated include toll cable pair records, small office facility records, central office equipment records, repeating coil (line transformer records), telephone repeater records, and telegraph equipment records.

1.03 This section includes information regarding Form E-2179 Toll Cable Pair Record.

2. TOLL LAYOUT FACILITY RECORDS

Toll Cable Pair Records

2.01 Form E-2179, Toll Cable Pair Record: This form is designed for use both in the layout assignment center and as a toll test room toll cable pair record for primary board and circuit layout work.

2.02 This record is a page type form, 9-5/16" x 17" printed on both sides of a durable buff stock. It is organized to accommodate detail with respect to the make-up of a toll cable or complement and the occupancy of both the telephone and telegraph facilities. Space is provided for listing 25 quads, or 75 non-quadded pairs, on each of its two pages. Standard 6-ring binders are available for filing the forms.

2.03 Examples of this form and a typical index sheet are shown in Figs. 1, 2, 3, 4 and 5.

2.04 Form E-2179-A: This form, the top of which is illustrated in Fig. 5A, is essentially the same as Form E-2179 except that it is designed to fit in binders made for 8-1/2" x 11" forms. The same figures illustrate the use of this form.

2.05 Fig. 6 illustrates another type of cable pair record which has been found particularly applicable to very large toll layout assignment centers. This is a heavy card stock 10" x 15" form and can easily be adapted to "Vision Index" type records such as are used in larger exchange assignment centers.

Toll Central Office Equipment Records

2.06 Form E-2307, Record of Central Office Equipment: This is a page type 8-1/2" x 11" form printed on both sides of a durable buff paper stock. Fig. 7 illustrates this form.

2.07 Small Office Jack Panel Assignment Record: Fig. 8 illustrates one type of record suitable for this purpose.

2.08 Form E-2308, Record of Repeating Coil Groups: This is also a page type form printed both sides on the same color and weight paper as Forms E-2307, E-2179 and E-2179A. A facsimile is shown in Fig. 9.

2.09 Record of Telephone Repeaters: Fig. 10 illustrates two forms which are used by one Associated Company and Fig. 11 shows a more detailed type of telephone repeater equipment record used in a number of large toll layout assignment centers of another Company.

2.10 Record of Telegraph Equipment and Assignments: Fig. 13 shows one type of record and Fig. 12 illustrates a larger 10" x 15" form which is adaptable to "Vision Index" type records.

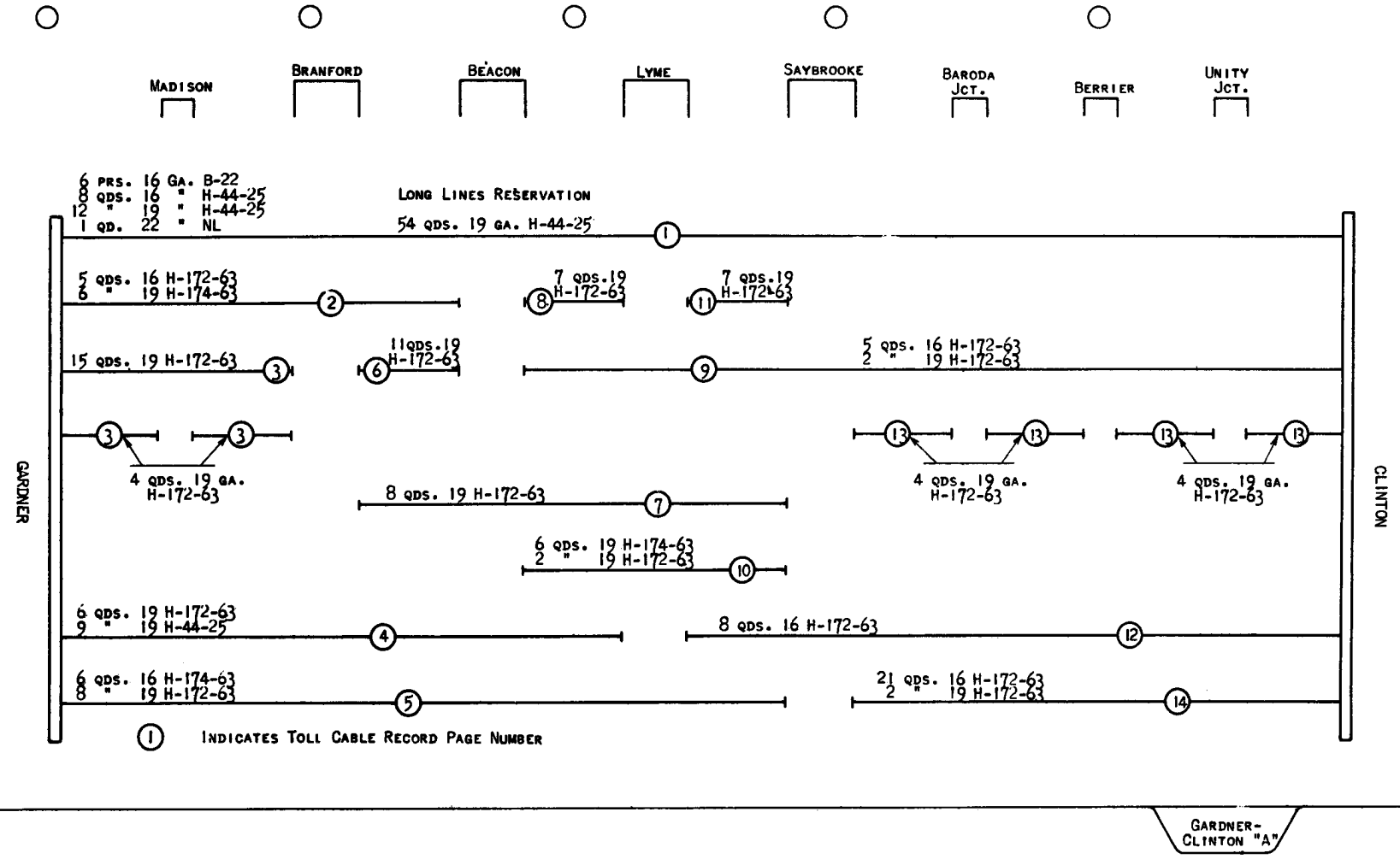


FIGURE 1

TOLL CABLE RECORD INDEX SHEET

WITH SPECIMEN ENTRIES ILLUSTRATING ITS APPLICATION TO A PARTICULAR CABLE

Form E-2179 Page 1

CABLE Gardner - Clinton "A" PAIRS BETWEEN Gardner - Clinton

GARDNER — UG. 1.7 MI. × AER. 11.7 MI. × UG. 4.7 MI. × AER. 25.1 MI. — CENT. DIV. / EAST. DIV. — AER 10 MI. — CLINTON

LENGTH	ACTUAL	EQUIVALENT
TOTAL	53.2	53.2
U.G.	6.4	
AER.	46.8	

GAUGE, LOADING AND OTHER PAIR DETAILS		PAIR OR PHANTOM	TELEPHONE CIRCUIT OR CIRCUIT UNIT		ORDER NO.	OTHER 4-W PAIR	MISCELLANEOUS
Ga. 16 Ldg. B-22 Opr. Program Side Loss 8.51	E-W	1	1	PG. C.U. FAIR-JAC	867		RED NETWORK
		2					
		3					
	W-E	4	1	PG. C.U. FAIR-JAC	867		RED NETWORK
		5					
		6					
		7	R-	2101 Z CLI	925		
		8	R-	2201 Z CLI			
		Ph	R-	2301 Z CLI			
		9	R-	2102 Z CLI			
		10	R-	2202 Z CLI FAIRMOUNT-			
		Ph	R-	2302 Z CLI JACKSON			
		11	R-	2103 Z CLI			
		12	R-	2203 Z CLI			
		Ph	R-	2303 Z CLI			
Ga. 16 Ldg. H-44-25 Opr. 2-W Side Ph Loss 13.3 11.2		13					
		14					
		Ph					SX 300 S.O. 512
		15	FT	866 JAC-MINN	103		
		16					
		Ph					SX S.O 190
		17	1	CLI-GAR	162		
		18	6	CLI-GAR	162		
		Ph	3	CLI-GAR	162		SX
		19			190		
		20	FT	168 JAC-MINN	211		
		Ph			190		
		21	4	CLI-GAR	162		
		22	2	CLI-GAR	162		
		Ph	5	CLI-GAR	162		
Ga. 19 Ldg. H-44-25 Opr. 4-W (E-W) Side Ph Loss 25.5 21.3		79	R-	101 Z CLI	924	179	PMCX MX 1Z
		80	R-	201 Z CLI		180	PMCX MX 2Z
		Ph	R-	301 Z CLI		Ph	
		81	R-	102 Z CLI		181	PMCX MX 3Z FAIR-JAC
		82	R-	202 Z CLI FAIRMOUNT-		182	PMCX MX 4Z C.O. 115
		Ph	R-	302 Z CLI JACKSON		Ph	
		83	R-	103 Z CLI		183	PMCX MX 5Z
		84	R-	203 Z CLI		184	PMCX MX 6Z
		Ph	R-	303 Z CLI		Ph	
		85				185	MCX TWX 1 FAIR-JAC (E) C.O. 271
		86				186	MCX TWX 1 FAIR-JAC (W) C.O. 271
		Ph				Ph	
		87				187	
		88				188	
		Ph				Ph	
		89				189	
		90				190	
		Ph				Ph	
		91			Reserved for		
		↕					
		144			Long Lines		
Ga. 19 Ldg. H-44-25 Opr. 4-W (W-E) Side Ph Loss 25.5 21.3		179	R-	101 Z CLI	924	79	PMCX MX 7Z
		180	R-	201 Z CLI		80	PMCX MX 8Z
		Ph	R-	301 Z CLI		Ph	
		181	R-	102 Z CLI		81	PMCX MX 9Z FAIR-JAC
		182	R-	202 Z CLI FAIRMOUNT-		82	PMCX MX 10Z C.O. 115
		Ph	R-	302 Z CLI JACKSON		Ph	
		183	R-	103 Z CLI		83	PMCX MX 11Z
		184	R-	203 Z CLI		84	PMCX MX 12Z
		Ph	R-	303 Z CLI		Ph	
		185				85	MCX
		186				86	MCX
		Ph				Ph	
		187				87	
		188				88	
		Ph				Ph	
		189				89	
		190				90	
		Ph				Ph	
		191			Reserved for		
		↕					
		244			Long Lines		
Ga. 22 Ldg. NL		273					
		274					
		Ph					

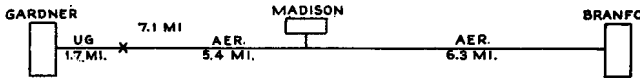
FIGURE 2
TOLL CABLE PAIR RECORD, FORM E-2179
WITH SPECIMEN ENTRIES

IN THIS ILLUSTRATION ALL OF THE PAIRS ON THE SHEET EXTEND BETWEEN THE TWO TERMINATING POINTS SHOWN AT THE TOP OF THE SHEET. NONE OF THEM IS LOOPED OR TERMINATED AT ANY INTERMEDIATE POINT.

THE ORIGINAL IS 9-5/16" x 17" AND IS PRINTED ON BUFF PAPER.

Form E-2179 Page 3

CABLE Gardner - Clinton "A" PAIRS BETWEEN Gardner-Madison-Branford



LENGTH	ACTUAL	EQUIVALENT
TOTAL	13.4	13.4
U.G.	1.7	
AER.	11.7	

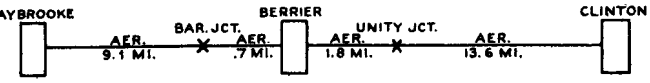
GAUGE, LOADING AND OTHER PAIR DETAILS	PAIR OR PHANTOM	TELEPHONE CIRCUIT OR CIRCUIT UNIT		ORDER NO.	OTHER 4-W PAIR	MISCELLANEOUS
	41	1	BRAN - GAR	414		
	42	3	BRAN - GAR	414		
	Ph	2	BRAN - GAR	414		SX 326 S.O. 419
	43	7	BRAN - GAR	936		
	44	9	BRAN - GAR	936		
	Ph	8	BRAN - GAR	936		
	45					
	46					
	Ph					SX 1023 S.O. 391
	47	1	BRAN - OTT	731		
	48	3	BRAN - OTT	731		
	Ph	2	BRAN - OTT	731		SX 431 S.O. 516
	49					
	50					
	Ph					
	51					
	52					
	Ph					
	53					
	54					
	Ph					
	55	1	GAR - MAD	233		MADISON: 4 BRAN-MAD 314
	56	3	GAR - MAD	233		MADISON: 3 BRAN-MAD 314
	Ph	2	GAR - MAD	233		MADISON: 2 BRAN-MAD 314
	57	5	GAR - MAD	233		
Ga. 19	58	4	GAR - MAD	233		MADISON: 1 BRAN-MAD 314
Ldg. H-172-63	Ph	6	GAR - MAD	233		
Opr. 2-W	59			562		
	60			562		
Loss	Ph			562		
Side Ph	61					
	62					
3.75 3.75 Gar-Bran	Ph					
	63	31	BEA - GAR	682		
1.99 1.99 Gar-Mad	64	32	BEA - GAR	682		
	Ph					
	65	3	GAR - HAV.	829		
1.76 1.76 Mad-Bran	66	2	GAR - HAV	829		
	Ph	1	GAR - HAV	829		
	67	4	GAR - HAV	829		
	68	5	GAR - HAV	829		
	Ph					
	69			615		
	70			615		
	Ph			615		
	71					
	72					
	Ph					
	73					
	74					
	Ph					
	75					
	76					
	Ph					
	77					
	78					
	Ph					

FIGURE 3
TOLL CABLE PAIR RECORD, FORM E-2179
WITH SPECIMEN ENTRIES

IN THIS ILLUSTRATION A FEW OF THE PAIRS ARE LOOPED AT A POINT INTERMEDIATE BETWEEN TWO MAJOR TERMINATING POINTS. THESE FEW PAIRS ARE SHOWN ON THE SAME SHEET WITH THE PAIRS WHICH GO STRAIGHT THROUGH, THUS AVOIDING THE USE OF SEPARATE SHEETS FOR THESE FEW LOOPED PAIRS.

Form E-2179 Page 13

CABLE Gardner - Clinton "A" PAIRS BETWEEN Saybrooke-Baroda Jct.-Berrier-Unity Jct.-Clinton



LENGTH	ACTUAL	EQUIVALENT
TOTAL	25.2	25.2
U.G.		
AER.	25.2	

GAUGE, LOADING AND OTHER PAIR DETAILS	PAIR OR PHANTOM	TELEPHONE CIRCUIT OR CIRCUIT UNIT		ORDER NO.	OTHER 4-W PAIR	MISCELLANEOUS
SAYBROOKE - BARODA JCT. Ga. 19 Ldg.H-172-63 Side Ph Loss 2.55 2.55	253	4	BAR. JCT - SAY	182		
	254	5	BAR. JCT - SAY	182		
	Ph					
	255	1	BERR - SAY	194		
	256	3	BERR - SAY	194		
	Ph	2	BERR - SAY	212		
	257	4	BERR - SAY	112		
	258	6	BERR - SAY	112		
	Ph	5	BERR - SAY	196		
	259					
	260					
	Ph					
BARODA JCT. - BERRIER Ga. 19 Ldg.H-172-63 Side Ph Loss .20 .20	253	31	BAR. JCT - BERR	196		
	254	4	BAR. JCT - CLI	216		
	Ph					
	255	1	BERR - SAY	194		
	256	3	BERR - SAY	194		
	Ph	2	BERR - SAY	212		
	257	4	BERR - SAY	112		
	258	6	BERR - SAY	112		
	Ph	5	BERR - SAY	196		
	259					
	260					
	Ph					
BERRIER - UNITY JCT. Ga. 19 Ldg.H-172-63 Side Ph Loss .50 .50	253					
	254	4	BAR. JCT. - CLI	216		
	Ph					
	255	1	BERR - CLI	129		
	256	3	BERR - CLI	129		
	Ph	2	BERR - CLI	129		
	257	4	BERR - CLI	129		
	258	6	BERR - CLI	129		
	Ph	5	BERR - CLI	129		
	259					
	260					
	Ph					
UNITY JCT. - CLINTON Ga. 19 Ldg.H-172-63 Side Ph Loss 3.8 3.8	253					
	254	4	BAR. JCT - CLI	216		
	Ph					
	255	1	BERR - CLI	129		
	256	3	BERR - CLI	129		
	Ph	2	BERR - CLI	129		
	257	4	BERR - CLI	129		
	258	6	BERR - CLI	129		
	Ph	5	BERR - CLI	129		
	259					
	260					
	Ph					

FIGURE 4
TOLL CABLE PAIR RECORD, FORM E-2179
WITH SPECIMEN ENTRIES

IN THIS ILLUSTRATION A SINGLE SHEET IS USED FOR SHOWING A NUMBER OF SMALL PAIR-GROUPS WHICH ARE IN SERIES ALONG A CABLE ROUTE

Page 1

CABLE Lewis - Madisonville "A" PAIRS BETWEEN Lewis - Boonville

GAUGE AND LOADING	PAIR	Lewis LINE EQUIP.	Lewis REPT.	CIRCUIT	Boonville REPT.	Boonville LINE EQUIP.	ORDER NO.	MISCELLANEOUS
	1			ASSOC.				
	6			CO.				
	7	SX PH		0675		SX PH	3627	
	8							
16 Ga.	9			SIG. CCT. FT 214 DT-WTON			3781	
	10							
H-44-25	11			SIG. CCT. FT 249 DT-MAD			3672	
	12							
	13		13-B-1	7706			3582	
	14							
	15		12-A-1	KSP 6089			4117	
	16							
	17		12-A-1	KSP-6071			4117	
	18							
	19		12-A-1	KSP 6109			4117	
	20							
	21		12-A-1	0104			3975	
	22							
	23	MCX	20-BX-1	KSP-1127 (E)		MICX	4034	
	24		20-BX-1	KSP-1127 (W)			4034	
	25							
	26		20-AX-1	0241			4325	
	27		20-A-1	016 (E)			4110	
	28		20-A-1	016 (W)			4110	
	29		20-B-1	0248 (E)			3958	
	30		20-B-1	0248 (W)			3958	
16 Ga.	31		20-B-1	KSP 4179 (E)			4871	
	32		20-B-1	KSP 4179 (W)			4871	
H174-63	33	SX		7718		SX	3941	
	34	SX				SX		
	35			ASSOC.				
	46			CO.				
	47	MCX				MICX		
	48	MCX				MICX		
	49	SX PH	12-A-1	0117		SX PH	3975	
	50							
	51		12-A-1	0503			3980	
	52							
	53			SIG. CCT. FT 173 LEW-MAD			4833	
	54							
	55			SIG. CCT. FT 460 LEW-MAD			4764	
	56							
	57			ASSOC.				
	84			CO.				
	85	MCX				MICX	3958	
	86	MCX				MICX		
	87	SX PH				SX PH		
19 Ga.	88							
H174-63	89			0697			4259	
	90							
	91	MCX				MICX		
	92						4020	
	93						4034	
	94						4034	
	95	PMCX		MX 95		PMICX	4001	
	96			MX 96 LEW-				
	97			MX 97 MAD				
	98			MX 98				
	99	E				E		
	100	E				E		
19 Ga.	101	PMCX		MX 99		PMICX	4001	
H-44-25	102			MX 100				
	103			MX 101				
	104			MX 102 LEW-MAD				
	105			MX 103				
	106			MX 104				
	107			MX 105				
	108			MX 106				
	109			KMO-VF				
	110							
	111	M	20-B-1	TWX 2 LEW-MAD (E)			5881	PR 161 E
16 Ga.	112	M	20-B-1	TWX 2 LEW-MAD (W)			5881	PR 162 E
NL	113	PX		7661			4681	PR 163 E
	114			KMO C.O. 3429				
	115	M	20-A-1	7718 7703 N (E)			4772	PR 165 E
	116	M	20-A-1	7718 7703 N (W)			4772	PR 166 E

FIGURE 5

TOLL CABLE RECORD

THIS FIGURE ILLUSTRATES A SUGGESTED FORM FOR USE AS THE TELEGRAPH FACILITIES RECORD, WHERE A LARGE VOLUME OF TELEGRAPH ASSIGNMENT WORK, AND THE METHOD OF HANDLING IT, MAKE IT DESIRABLE TO HAVE SEPARATE RECORDS OF THE TELEPHONE AND TELEGRAPH FACILITIES.

FORM E-2179-A

Page_____

CABLE_____ PAIRS BETWEEN_____

	LENGTH	
	ACTUAL	EQUIVALENT
TOTAL		
U.S.		
A&R.		

GAUGE, LOADING AND OTHER PAIR DETAILS	PAIR OR PHANTOM	TELEPHONE		OTHER 4-W PAIR	MISCELLANEOUS
		CIRCUIT OR CIRCUIT UNIT	ORDER NO.		

FIG. 5A TOLL CABLE PAIR RECORD, FORM E-2179A

CABLE

SECTION

LAY UP

PAIR	GA. AND SEC.	LOADING SYSTEM	TYPE OF COIL	SENDING POINT E W		OTHER 4 WIRE PAIR	CIRCUIT	CIRCUIT ORDER NO.	
Ph									
Ph									
Ph									
Ph									

FIG. 6 TOLL CABLE PAIR ASSIGNMENT RECORD

PRINTED IN U.S.A.

FORM E-2307 (7-38)

RECORD OF CENTRAL OFFICE EQUIPMENT
(OTHER THAN REPEATING COIL GROUPS)

SHEET NO._____

EQUIPMENT_____

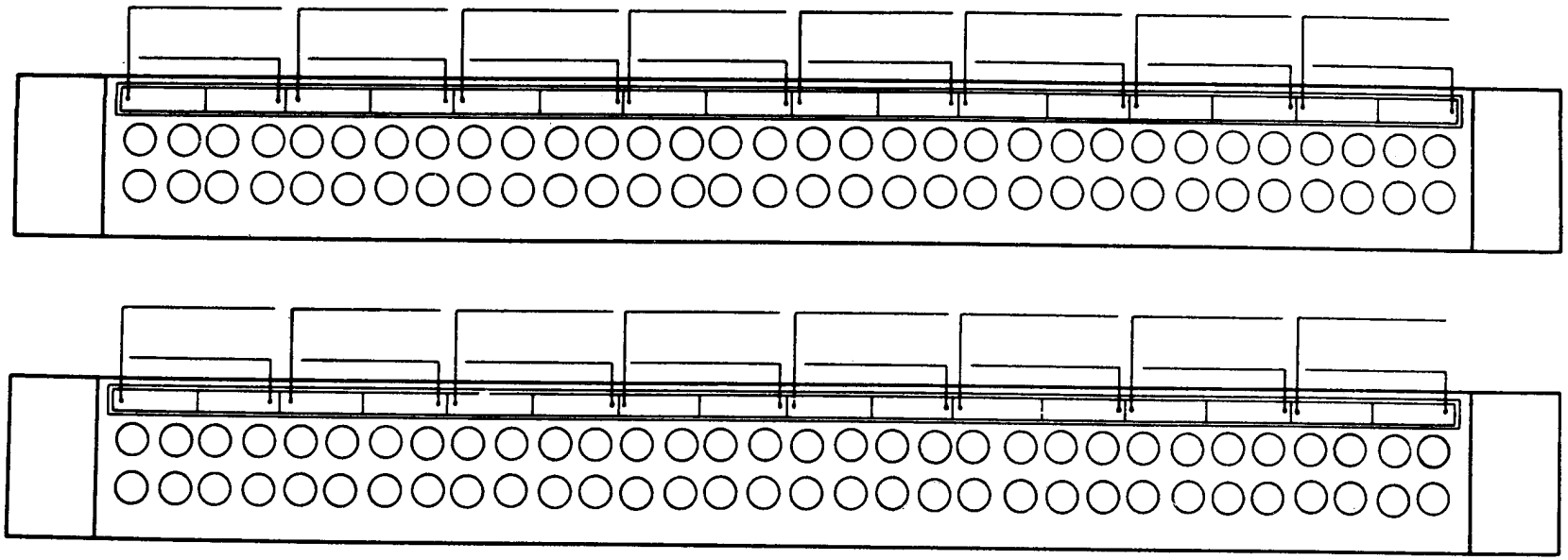
OFFICE_____ TYPE_____

DIST. FRAME_____ STRIP_____ SEC._____ DRAWING AND FIGURE NOS._____

RACK OR BAY LOCATION	EQUIPMENT NO.	CIRCUIT IN USE	RACK OR BAY LOCATION	EQUIPMENT NO.	CIRCUIT IN USE	RACK OR BAY LOCATION	EQUIPMENT NO.	CIRCUIT IN USE

FIG. 7 RECORD OF CENTRAL OFFICE EQUIPMENT

SMALL OFFICE TOLL TEST JACK PANEL OR TEST UNIT RECORD



CIRCUIT SKETCHES

OFFICE _____

Fig. 8 - SMALL OFFICE JACK PANEL RECORD

PRINTED IN U.S.A. FORM E-2666 (7-58)

RECORD OF REPEATING COIL GROUPS

SHEET NO._____

EQUIPMENT_____

OFFICE_____ TYPE_____

DIST. FRAME_____ STRIP_____ SEC._____ DRAWING AND FIGURE NOS._____

RACK OR BAY LOCATION	EQUIPMENT NO.	IN USE - CIRCUIT				RACK OR BAY LOCATION	EQUIPMENT NO.	IN USE - CIRCUIT			
		A - 1 S - 1	B - 1 S - 2	A - 2 NS - 1	B - 2 NS - 2			A - 1 S - 1	B - 1 S - 2	A - 2 NS - 1	B - 2 NS - 2

Fig. 9 - RECORD OF REPEATING COIL GROUPS (LINE TRANSFORMERS)

RECORD OF TELEPHONE REPEATERS
(2 WIRE TYPE)

SHEET NO. _____

OFFICE _____ REPEATER TYPE _____

DRAWING AND FIGURE NOS. _____ REGULATOR _____ RINGER TYPE _____

REPEATER NO.	IN USE CIRCUIT	FACILITY		FRAME BLOCK	REG. NET	RINGER SUPPLY RESISTOR	OUTPUT TRANS-FORMER	MONITOR WINDING STRAP	E - W			W - E		
									FILTER	PAD	EQN.	FILTER	PAD	EQN.

RECORD OF TELEPHONE REPEATERS
(4 WIRE AND V TYPE)

SHEET NO. _____

OFFICE _____ REPEATER TYPE _____

DRAWING AND FIGURE NOS. _____ REGULATOR _____

REPEATER NO.	IN USE CIRCUIT	EQUALIZATION		REG. NET	ODD E-W IN BLOCK	ODD E-W IN FACILITY	ODD E-W OUT BLOCK	ODD E-W OUT FACILITY	EVEN W-E IN BLOCK	EVEN W-E IN FACILITY	EVEN W-E OUT BLOCK	EVEN W-E OUT FACILITY
		E-W	W-E									

Fig. 10 - RECORD OF TELEPHONE REPEATERS

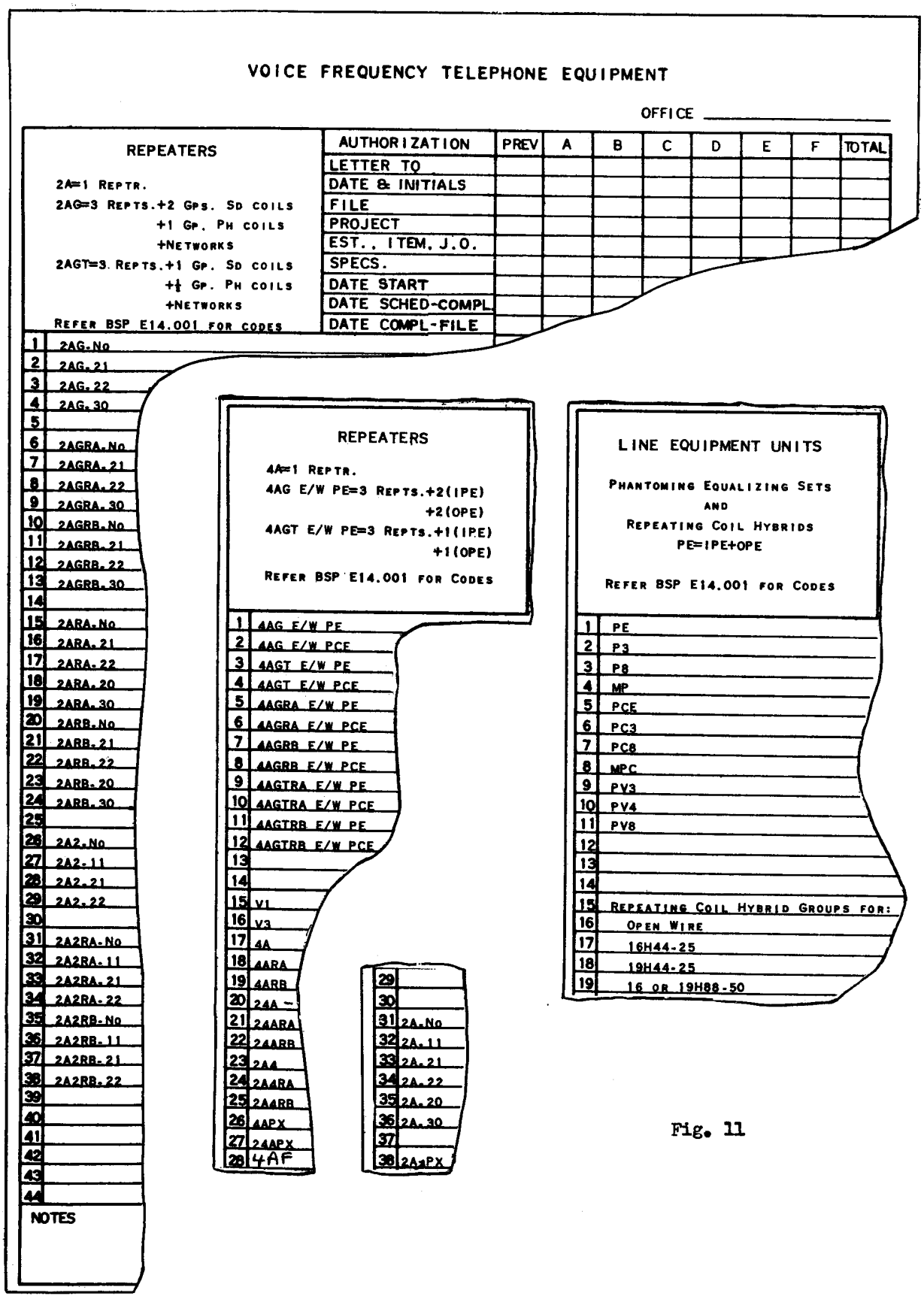

VOICE FREQUENCY TELEPHONE EQUIPMENT
OFFICE
REPEATERS
2A=1 REPTR.
2AG=3 REPTS.+2 GPS. SD COILS
+1 GP. PH COILS
+NETWORKS
2AGT=3. REPTS.+1 GP. SD COILS
+1 GP. PH COILS
+NETWORKS
REFER BSP E14.001 FOR CODES
AUTHORIZATION
LETTER TO
DATE & INITIALS
FILE
PROJECT
EST., ITEM, J.O.
SPECS.
DATE START
DATE SCHED-COMPL
DATE COMPL-FILE
PREV
A
B
C
D
E
F
TOTAL
1 2AG.No
2 2AG.21
3 2AG.22
4 2AG.30
5
6 2AGRA.No
7 2AGRA.21
8 2AGRA.22
9 2AGRA.30
10 2AGRB.No
11 2AGRB.21
12 2AGRB.22
13 2AGRB.30
14
15 2ARA.No
16 2ARA.21
17 2ARA.22
18 2ARA.20
19 2ARA.30
20 2ARB.No
21 2ARB.21
22 2ARB.22
23 2ARB.20
24 2ARB.30
25
26 2A2.No
27 2A2.11
28 2A2.21
29 2A2.22
30
31 2A2RA-No
32 2A2RA.11
33 2A2RA.21
34 2A2RA.22
35 2A2RB-No
36 2A2RB.11
37 2A2RB.21
38 2A2RB.22
39
40
41
42
43
44
NOTES
REPEATERS
4A=1 REPTR.
4AG E/W PE=3 REPTS.+2(IPE)
+2(OPE)
4AGT E/W PE=3 REPTS.+1(IPE)
+1(OPE)
REFER BSP E14.001 FOR CODES
1 4AG E/W PE
2 4AG E/W PCE
3 4AGT E/W PE
4 4AGT E/W PCE
5 4AGRA E/W PE
6 4AGRA E/W PCE
7 4AGRB E/W PE
8 4AGRB E/W PCE
9 4AGTRA E/W PE
10 4AGTRA E/W PCE
11 4AGTRB E/W PE
12 4AGTRB E/W PCE
13
14
15 V1
16 V3
17 4A
18 4ARA
19 4ARB
20 24A -
21 24ARA
22 24ARB
23 2A4
24 2A4RA
25 2A4RB
26 4APX
27 24APX
28 4AF
29
30
31 2A.No
32 2A.11
33 2A.21
34 2A.22
35 2A.20
36 2A.30
37
38 2A2PX
LINE EQUIPMENT UNITS
PHANTOMING EQUALIZING SETS
AND
REPEATING COIL HYBRIDS
PE=IPE+OPE
REFER BSP E14.001 FOR CODES
1 PE
2 P3
3 P8
4 MP
5 PCE
6 PC3
7 PC8
8 MPC
9 PV3
10 PV4
11 PV8
12
13
14
15 REPEATING COIL HYBRID GROUPS FOR:
16 OPEN WIRE
17 16H44-25
18 19H44-25
19 16 OR 19H88-50

Fig. 11

TELEGRAPH ASSIGNMENT RECORD

CABLE OR LINE _____ SECTION _____

PAIR OR WIRE	GA. AND LDS.	LINE EQUIP	SC.	PAIR OR WIRE	GA. AND LDS.	LINE EQUIP.	REPT.	CIRCUIT	REPT.	LINE EQUIP.	TCRO OR SCSO	MISC.	PAIR OR WIR	RO R SO	MISC.

Fig. 12

RECORD OF TELEGRAPH EQUIPMENT

OFFICE _____ TYPE _____ SHEET NO. _____

DRAWINGS _____

INSTALLED _____ ASSIGNED _____ IDLE _____ RENTED BY _____

EQUIPMENT			TEST BOARD			CIRCUIT OR STATION			
NO	BAY	FRAME	SR LEGS IN	TG EQ OUT	TWD		NOISE KILLER	EQUALIZER	MISCELLANEOUS

Fig. 13