

ENGINEERING NOTES

\*\*\*\*\* CONTINUED \*\*\*\*\*

	DF TO 7500 DATA MODULE OR ISDN SET	
	4024 DATA SET TO DF	
	NEC MODEM TO DF	
CA9	829A DATA AUX SET TO DF	812A

60. CABLE CA13 CONNECTS THE FOLLOWING EQUIPMENT:  
AP TO 202T DATA SET  
AP TO 4024 DATA SET  
AP TO NEC MODEM  
AP TO 23A DATA UNIT  
AP TO 7500 DATA MODULE OR ISDN SET
61. CABLE CA14 CONNECTS THE FOLLOWING EQUIPMENT:  
AP TO AT&T 615 TERMINAL  
AP TO DATA TERMINAL EQUIPMENT
62. MINIMUM OF 2 LINK TO SWITCH KITS REQUIRED.
63. QUANTITY OF LISTS 5,6,B & BP ARE PER ENGINEERING GUIDELINES.
64. THE MAXIMUM DISTANCE (WIRING LENGTH) BETWEEN THE 5ESS SWITCH AND THE DISDNI IS 1 KILOMETER FOR THE T-INTERFACE AND 6.5 KILOMETERS FOR THE U-INTERFACE.
65. THE ISC KIT INCLUDES AN ISC FEATURE CARD AND A CABLE. THE CABLE CONSISTS OF TWO RS-232-C CONNECTORS AT ONE END (J2 & J3) AND A 37 PIN, D-TYPE CONNECTOR (J1) AT THE OTHER END. THE J1 CONNECTOR IS INSERTED INTO THE ISC CARD AND THE J2 CONNECTOR SHOULD BE INSERTED INTO THE DISDNI OR 2096A DATA SET. THE J3 CONNECTOR IS UNUSED.
66. FOR CONNECTIONS AT THE DISTRIBUTING FRAME, FOR THE DISDNI TO THE ISLU OR NTL. SEE FIG. X.
67. THE FOLLOWING DATA TERMINAL EQUIPMENT (DTE) IS RECOMMENDED FOR ACP APPLICATIONS: VOICE MESSAGE SYSTEM MAY BE CONNECTED VIA OPTION N,W OR X.  
AT&T MODEL 615 TERMINAL OR EQUIV.  
\$AT&T MODEL 5310 PRINTER OR EQUIV.\$  
AT&T MODEL 572 PRINTER OR EQUIV.  
A SEPARATE TERMINAL IS REQUIRED FOR ACP ADMINISTRATION IN ADDITION TO THE TERMINALS PROVIDED FOR THE BUSINESS CUSTOMER.
68. THE CANDELLA MESSAGE PRINTER IS A PORTABLE UNIT THAT CAN BE USED ANYWHERE. THERE IS A TELEPHONE CONNECTED TO A MODULAR JACK. A T-CONNECTOR AND 6-PIN MODULAR CORD ARE PROVIDED WITH THE CANDELLA PRINTER.
69. LISTS P & S MAY BE ORDERED TOGETHER OR SEPARATELY.
70. LISTS BQ & BR MAY BE ORDERED IN COMBINATION (MAX OF 8) WHEN LIST H IS SPECIFIED.
71. DOCUMENTATION:  
VERSION 5 ADVANCED COMMUNICATIONS PACKAGE USER DOCUMENTATION  
-533-605-301 ADVANCED COMMUNICATIONS PACKAGE ADMINISTRATION MANUAL  
-533-605-302 BUSINESS CUSTOMER ADMINISTRATION MANUAL (UNREGULATED)  
-533-610-302 BUSINESS CUSTOMER ADMINISTRATION MANUAL (REGULATED)  
-533-605-303 ADVANCED STATION MESSAGE DETAIL REPORTING USER GUIDE (UNREGULATED)  
----- CONTINUED ON NEXT SHEET -----

ENGINEERING NOTES

51. INFORMATION FURNISHED PER THIS DRAWING IS IN ACCORDANCE WITH AT&T PRACTICES.
52. THIS DOCUMENT CONTAINS COMPLETE ENGINEERING INFORMATION FOR THE SUBJECT EQUIPMENT. JOB INFORMATION SHALL BE RECORDED BY LIST OR GROUP.
53. THE FOLLOWING IS A LIST OF ASSOCIATED CIRCUITS:  
SD5D001-01 5ESS FLOOR PLAN DATA  
SD5D014-01 5ESS SYSTEM APPLICATION SCHEMATIC  
SD5D091-01 INTEGRATED SERVICES LINE UNIT  
SD5D118-01 5ESS SWITCHING MODULE  
SD5D123-01 RISLU CABINET  
ED3T023-30 3B2/600 COMPUTER
54. ANY COMBINATION OF LISTS T & U CAN BE PROVIDED. QTY NOT TO EXCEED 4. A MINIMUM OF 1 LIST T OR U IS REQUIRED IN ADDITION TO LIST S.
55. A MINIMUM OF 2 LINKS BETWEEN THE ISLU AND THE APPLICATIONS PROCESSOR IS REQUIRED.
56. CA7 CABLE CONNECTS THE FOLLOWING EQUIPMENT:  
23A DATA UNIT TO DATA TERMINAL EQUIPMENT  
202T DATA SET TO DATA TERMINAL EQUIPMENT  
4024 DATA SET TO DATA TERMINAL EQUIPMENT  
7500 DATA MODULE OR ISDN TO DATA TERMINAL EQUIPMENT  
572 PRINTER TO 615 TERMINALS
57. CABLE DESIG CA11 - SERIAL PORT CONNECTOR CABLE IS PART OF ISC KIT.  
CABLE DESIG CA15 - PROVIDED WITH AIC CARD.  
CABLE DESIG CA16 - M8K CORD IS PART OF 202T DATA SET.
58. WHEN LIST M IS SPECIFIED, 2 LIST AR,AS,AT,AU,AV,AW,AX OR AY MUST BE ORDERED.
59. THE FOLLOWING ARE X-DIM CABLES TO BE JOB ENGINEERED:

CABLE DESIGNATION	EQUIPMENT TO BE CONNECTED	CABLE
CA1	ISLU TO DISTRIBUTING FRAME	FOR 711 TYPE CONNECTORS ED5D621-11,G81-84 FOR SWC TYPE CONNECTORS ED5D621-11,G21A-24A FOR TRW TYPE CONNECTORS ED5D621-11,G81B-84B
CA2		FOR 711 TYPE CONNECTORS ED5D621-11,G71-74 FOR SWC TYPE CONNECTORS ED5D621-11,G1A-4A FOR TRW TYPE CONNECTORS ED5D621-11,G71B-74B
CA3	DF TO NTL POWER SUPPLY HAYNES 1200 MODEM TO DF	ED5D621-11,G61
CA5	NTL TO DF DF TO DISDNI	ED5D621-11,G62

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ISSUE NOTES

- ORIG ISS: 06/29/89 CHANGE CLASS:
- |            |           |           |                     |          |
|------------|-----------|-----------|---------------------|----------|
| DRAFT: DSL | ENGR: JJR | SUPV: EJZ | CERTIFIED: 06/29/89 | ISSUE: 1 |
|------------|-----------|-----------|---------------------|----------|
- S NOTE ADDED TO SL ITEMS 1343 & 1345.
- ORIG ISS: 06/29/89 CHANGE CLASS: M
- |            |           |       |                     |          |
|------------|-----------|-------|---------------------|----------|
| DRAFT: JJR | ENGR: JJR | SUPV: | CERTIFIED: 07/11/89 | ISSUE: 2 |
|------------|-----------|-------|---------------------|----------|
- NOTES 80,81,82 & 83 ADDED. IN TBL A LIST BX RATED DA. DESCRIPTION FOR LISTS R,K,AH,AJ,AK,AL,AM,BD,BE,BF AND BG REVISED. LISTS CG,CH AND CJ ADDED; ALARM RELAY UNIT, REF. TO FIG AE,AF AND AG ADDED TO FIG 1. 572 PRINTER IN FIG F,G AND S READ 5310; CA7 IN FIG 1 READ CA19; FIGURES AF AND AG ADDED. SL ITEMS 1000,1030,1190,1230,1240 LINED OUT; ITEMS 1001,1002,1003,1031,1032,1191,1231,1305,1311,2000 THRU 2050 ADDED. LIST CJ ADDED TO ITEMS 1680,1690,1700 AND 1710; LISTS B,F,G AND Q ADDED TO ITEM 1770. NOTE 79 AND TBL JJ DATA LINED OUT. NOTES 56 AND 67 REVISED.
- ORIG ISS: 06/29/89 CHANGE CLASS: M
- |            |           |       |                     |          |
|------------|-----------|-------|---------------------|----------|
| DRAFT: PKK | ENGR: GLF | SUPV: | CERTIFIED: 01/15/90 | ISSUE: 3 |
|------------|-----------|-------|---------------------|----------|
- LISTS CK,CL,CM,CN,CP,CQ,CR, SL ITEMS 1020,2060,2070,2080, NOTE 84 ADDED. NOTES 71 & 75 CHANGED. NOTE 84 ADDED TO LIST M,X,J,V DESCRIPTION. LISTS Y,Z,AA,AB,AC,AD DESCRIPTION 'WITHOUT LIST CM' ADDED. LIST 4, DESCRIPTION 'ALWAYS' ADDED. LIST P, DESCRIPTION, 'OR REVENUE ACCOUNTING OFFICE (RAO) TAPE CAPABILITY' ADDED. SL ITEMS 1180,1191,1200 LIST CK ADDED. 1231, LIST CL ADDED. 1580, 1590,1600, LIST CN,CP,CQ ADDED RESPECTIVELY. 1490,1500,1510,1520, LISTS BY,BZ,CA,CE ADDED RESPECTIVELY. 1910,1920,1930,1940,1960 LINED OUT. FIG. 1,D,H,J,N,P,U,W CHANGED ACCORDINGLY.
- ORIG ISS: 06/29/89 CHANGE CLASS: B
- |            |           |       |                     |          |
|------------|-----------|-------|---------------------|----------|
| DRAFT: PKK | ENGR: JRK | SUPV: | CERTIFIED: 05/11/90 | ISSUE: 4 |
|------------|-----------|-------|---------------------|----------|
- IN TABLE A LIST 4 DESCRIPTION 'AND 3B2/600 COMPUTER' ADDED. SL ITEMS 1001,1002,1003 LINED OUT. ITEMS 1051,1052,1053,1355 ADDED. ITEM 1970 SYMBOL S REMOVED.ITEM 1350 LIST CD REMOVED.
- ORIG ISS: 06/29/89 CHANGE CLASS: M
- |            |           |       |                     |          |
|------------|-----------|-------|---------------------|----------|
| DRAFT: JRK | ENGR: JRK | SUPV: | CERTIFIED: 06/14/90 | ISSUE: 5 |
|------------|-----------|-------|---------------------|----------|
- TABLE A, GROUPS 1 THRU 7, A THRU Z, AA THRU AZ, BA THRU BZ, CA THRU CR RATED 'DA'.
- ORIG ISS: 06/29/89 CHANGE CLASS: M
- |            |           |          |                     |          |
|------------|-----------|----------|---------------------|----------|
| DRAFT: PEW | ENGR: PEW | SUPV: PK | CERTIFIED: 11/24/93 | ISSUE: 6 |
|------------|-----------|----------|---------------------|----------|
- (CN44511)TABLE A, GROUP CS ADDED. STOCKLIST ITEM 1821 ADDED.
- ORIG ISS: 06/29/89 CHANGE CLASS: A
- |            |           |          |                     |          |
|------------|-----------|----------|---------------------|----------|
| DRAFT: PEW | ENGR: PEW | SUPV: PK | CERTIFIED: 04/12/94 | ISSUE: 7 |
|------------|-----------|----------|---------------------|----------|

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ED5D679-30

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REPLACES ED5D671-30 REPLACED BY ED5D691-30

BT13

5ESS SWITCHING EQUIPMENT  
SPECIFICATION FOR  
ADVANCED COMMUNICATIONS PACKAGE  
VERSION 5  
(ACP)

DWG SIZE	C2	ISSUE	7
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TABLE A-FEATURES											
EQUIPMENT		EQUIPMENT OR CIRCUIT DATA						SD EQUIVALENT			
DESCRIPTION	REF NOTE	RAT-ING	LIST OR GROUP	QTY	EQUIPMENT OR CIRCUIT	L/G OR FIG	WRG	APP	SCHEMATIC	FIG	OPT
EQUIPMENT FOR VERSION 5 ADVANCED COMMUNICATION PACKAGE WHEN THE APPLICATIONS PROCESSOR IS LOCATED REMOTE FROM THE 5ESS SWITCH. (SEE NOTE 82). DA EFF:11/19/93 FE/RA:NONE		DA	1	1	ED5D679-30	1		Z	SD5D158-01	AS1	
EQUIPMENT FOR VERSION 5 ADVANCED COMMUNICATION PACKAGE WHEN THE APPLICATIONS PROCESSOR IS CO-LOCATED WITH THE 5ESS SWITCH. (SEE NOTE 82). DA EFF:11/19/93 FE/RA:NONE		DA	2	1	ED5D679-30	1			SD5D158-01	AS2	
REQUIRED IN ADDITION TO LIST 1,2 TO PROVIDE LINK TO SWITCH KIT. (SEE NOTE 62). DA EFF:11/19/93 FE/RA:NONE		DA	3								
ALWAYS REQUIRED IN ADDITION TO LIST 1,2 TO PROVIDE REMOTE MANAGEMENT PACKAGE AND 3B2/600 COMPUTER. DA EFF:11/19/93 FE/RA:NONE		DA	4								
REQUIRED IN ADDITION TO LIST 1,2 TO PROVIDE EPORTS I/O FEATURE CARD. (SEE NOTE 63). DA EFF:11/19/93 FE/RA:NONE		DA	5								
REQUIRED IN ADDITION TO LIST 1,2 TO PROVIDE 4MB MEMORY CARDS. (SEE NOTE 63). DA EFF:11/19/93 FE/RA:NONE		DA	6								
REQUIRED IN ADDITION TO LIST 1,2 TO PROVIDE C PROGRAM LANGUAGE UTILITIES. DA EFF:11/19/93 FE/RA:NONE		DA	7								
EQUIPMENT REQUIRED IN ADDITION TO LIST 1 WHEN DTE IS CO-LOCATED WITH APPLICATIONS PROCESSOR AND THE DTE IS LOCATED GREATER THAN 50 FEET FROM AP. DA EFF:11/19/93 FE/RA:NONE		DA	A	1	ED5D679-30	A	X	X	SD5D158-01	AS1	X
EQUIPMENT REQUIRED IN ADDITION TO LIST 1 WHEN DTE IS CO-LOCATED WITH APPLICATIONS PROCESSOR AND THE DTE IS LOCATED WITHIN 50 FEET OF AP. (SEE NOTE 63 & 67). DA EFF:11/19/93 FE/RA:NONE		DA	B	1	ED5D679-30	B		W	SD5D158-01	AS1	W
EQUIPMENT REQUIRED IN ADDITION TO LIST 1 OR 2 TO PROVIDE CMPS FEATURE. DA EFF:11/19/93 FE/RA:NONE		DA	C	1	ED5D679-30	C		G	SD5D158-01	AS1	G
EQUIPMENT REQUIRED IN ADDITION TO LIST 1 OR 2 TO PROVIDE DEDICATED LINK FEATURE. DA EFF:11/19/93 FE/RA:NONE		DA	D	1	ED5D679-30	D		N	SD5D158-01	AS1, AS2	N
EQUIPMENT REQUIRED IN ADDITION TO LIST 1 OR 2 TO PROVIDE DIAL-UP LINK FEATURE. DA EFF:11/19/93 FE/RA:NONE		DA	E	1	ED5D679-30	E		Q	SD5D158-01	AS1, AS2	Q
EQUIPMENT REQUIRED IN ADDITION TO LIST 1 OR 2 WHEN REMOTE CONSOLE TERMINAL IS NOT REQUIRED. DA EFF:11/19/93 FE/RA:NONE		DA	F	1	ED5D679-30	F		H	SD5D158-01	AS1, AS2	H

TABLE-A CONTINUED

ENGINEERING NOTES

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SWITCH. THE 5E6 GENERIC AND LATER WILL SUPPORT BOTH VERSIONS OF NT1. THE NT1 USES ALTERNATE MARK INVERSION (AMI) ENCODING (LISTS M OR X OR J OR V DEPENDING ON APPLICATION). IF 2B1Q ENCODING (NT1-200) IS REQUIRED SPECIFY LIST CM IN ADDITION TO M,X,J OR V. NEW ISDN CUSTOMERS ON 5E6 AND LATER GENERIC WOULD USE THE NT1-200, 2B1Q ENCODING. OFFICES WITH NT1, AMI ENCODING WOULD CONTINUE TO USE IT.

ENGINEERING NOTES

\*\*\*\*\* CONTINUED \*\*\*\*\*

- 533-610-303 ADVANCED STATION MESSAGE DETAIL REPORTING USER GUIDE (REGULATED)
  - 533-605-304 CUSTOMER MESSAGE SERVICE SYSTEM USER GUIDE
  - 533-605-305 ELECTRONIC DIRECTORY SERVICE USER GUIDE (UNREGULATED)
  - 533-610-305 ELECTRONIC DIRECTORY SERVICE USER GUIDE (REGULATED)
  - 533-605-306 ERROR REFERENCE MANUAL
  - 533-605-307 FACILITIES MANAGEMENT SYSTEM USER GUIDE
  - 533-605-308 TRAFFIC DATA SYSTEM USER GUIDE
  - 533-605-309 AUTOMATIC CIRCUIT ASSURANCE USER GUIDE
  - 533-605-310 DIRECTORY DATABASE ADMINISTRATION MANUAL (UNREGULATED) (THIS DOCUMENT REQUIRED IF CUSTOMER HAS ASMDR,CMSS OR EDS FEATURE)
  - 533-605-310 DIRECTORY DATABASE ADMINISTRATION MANUAL (REGULATED) (THIS DOCUMENT REQUIRED IF CUSTOMER HAS C.O. ASMDR OR C.O. EDS FEATURE)
  - 533-605-312 OPERATION, RECOVERY AND MAINTENANCE GUIDE
  - 533-605-314 CENTRALIZED MESSAGE DETAIL RECORDING USER GUIDE
  - 533-605-315 USER APPLICATION INTERFACE USER GUIDE
  - 533-605-330 ADVANCED COMMUNICATIONS PACKAGE QUICK REFERENCE
  - \$-533-605-316 SYSTEM MANAGEMENT PACKAGE USER GUIDES
  - INGRES 5.0 DOCUMENTATION
  - 533-605-201 VOL. 1 GUIDE TO INGRES
  - 533-605-202 VOL. 3 VIPRED USER GUIDE
  - 533-605-203 VOL. 5 REPORT BY FORM USER GUIDE
  - OTHER DOCUMENTATION
  - 533-700-100 ISDN CUSTOMER PREMISES PLANNING GUIDE
  - 505-900-303 APPLICATIONS PROCESSOR INTERFACE SPECIFICATION
  - 201-601-600 ALARM RELAY UNIT USER GUIDE
72. RESERVED.
73. FOR SOFTWARE REQUIREMENTS SEE J5D028B-1.
74. THE MAXIMUM DISTANCE CAN BE INCREASED FROM 50 TO 200 FEET IF LOW LOSS CABLE IS USED.
75. CA10 CABLE CONNECTS THE FOLLOWING EQUIPMENT:  
NT1 TO DISDNI  
Z3A DATA UNIT TO Z3A DATA UNIT  
NT1-200 TO 353A POWER UNIT
76. CA18 CONNECTS THE FOLLOWING EQUIPMENT: DISDNI TO 2096A DATA SET (ED5D621-35,G143).
77. WHEN ISC IS GREATER THAN 7 FEET FROM DISDNI, ORDER EXTENDER CABLE ED5D621-35,G144. (CA17).
78. WHEN UAI (USER APPLICATION INTERFACE) IS SPECIFIED, THE REQUIRED MODEMS CAN BE SWITCHED LINE MODEMS, PRIVATE LINE MODEMS OR LOCAL AREA DATA SETS AND THEY CAN BE DEDICATED TO A CUSTOMER OR MODEM POOLING CAN BE USED.
79. \$'THE COMCODES SHOWN IN THE STOCKLIST IDENTIFICATION FIELD REFERENCED BY THIS NOTE ARE NOT THE INDIVIDUAL OR SINGULAR COMCODE FOR THE PART DESCRIBED BUT ARE THE FACTORY'S ORDERING COMCODE. TABLE JI CONTAINS THE FACTORY'S ORDERING COMCODE FOR THE DESCRIBED PART AND THE EQUIVALENT SINGULAR/INDIVIDUAL COMCODE THAT MAY BE REQUIRED BY AN INSTALLER, CUSTOMER, REGIONAL LINE ENGINEER, OR A CLASS A CHANGE NOTICE.'\$
80. ALL MATERIAL ORDERED BY THIS DRAWING SHALL BE STAGED AT SERVICE SUPPORT CENTER (SSC) LOCATED AT EDISON, N.J.:  
AT&T NETWORK SYSTEMS  
121 FIELDCREST AVE.  
EDISON, N.J. 08837  
ATTENTION: MR. FRED GRIFFIN
81. 403350085 HEAD SET MAY BE USED.
82. A 403602717 CABLE CONNECTOR PLUG IS REQUIRED FOR DIRECT CONNECTION OF 3B2/600 COMPUTER TO 572 PRINTER.
83. DOLLAR SIGNS (\$) IN FRONT OF AND BEHIND WORDS, SENTENCES, PARAGRAPHS AND/OR CHARACTERS INDICATE HORIZONTALLY LINED OUT INFORMATION.
84. THERE ARE 2 VERSIONS OF THE NT1 THAT MAY BE USED WITH ACP, DEPENDING ON WHAT GENERIC PROGRAM IS BEING USED BY THE 5ESS  
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BT13

5ESS SWITCHING EQUIPMENT  
SPECIFICATION FOR  
ADVANCED COMMUNICATIONS PACKAGE  
VERSION 5  
(ACP)

DWG SIZE  
C2

ISSUE  
7

ED5D679-30

AT&T

ED5D679-30

SHEET A2  
OF 21

TABLE A-FEATURES (CONTINUED)												
EQUIPMENT		RAT- ING	LIST OR GROUP	EQUIPMENT OR CIRCUIT DATA					SD EQUIVALENT			
DESCRIPTION	REF NOTE			QTY	EQUIPMENT OR CIRCUIT	L/G OR FIG	WRG	APP	SCHEMATIC	FIG	OPT	
EQUIPMENT REQUIRED IN ADDITION TO LIST 1 OR 2 WHEN REMOTE CONSOLE TERMINAL IS REQUIRED. DA EFF:11/19/93 FE/RA:NONE		DA	G	1	ED5D679-30	G		J	SD5D158-01	AS1, AS2	J	
EQUIPMENT REQUIRED IN ADDITION TO LIST 1 OR 2 TO PROVIDE BILLBOARDS FEATURE. DA EFF:11/19/93 FE/RA:NONE		DA	H	1	ED5D679-30	H		E	SD5D158-01	AS1, AS2	E	
EQUIPMENT REQUIRED IN ADDITION TO LIST 1 WHEN BASIC RATE INTERFACE LINK IS PROVIDED TO REMOTE LOCATION AND U-INTERFACE IS REQUIRED. (SEE NOTE 84). DA EFF:11/19/93 FE/RA:NONE		DA	J	1	ED5D679-30	J		V,Z	SD5D158-01	AS1	V,Z	
EQUIPMENT REQUIRED IN ADDITION TO LIST 1 WHEN BASIC RATE INTERFACE LINK IS PROVIDED TO REMOTE LOCATION AND T-INTERFACE IS REQUIRED. (PROVIDE CA5 PER NOTE 59). DA EFF:11/19/93 FE/RA:NONE		DA	K	1	ED5D679-30	K		T,Z	SD5D158-01	AS1	T,Z	
EQUIPMENT REQUIRED IN ADDITION TO LIST 1 WHEN EITHER U-INTERFACE OR T-INTERFACE IS PROVIDED AND ANALOG LINK TO REMOTE LOCATION IS REQUIRED. DA EFF:11/19/93 FE/RA:NONE		DA	L	1	ED5D679-30	L		Y OMIT Z	SD5D158-01	AS1	Y	
EQUIPMENT REQUIRED IN ADDITION TO LIST 1 WHEN DIAL-UP OR DEDICATED BASIC RATE INTERFACE (BRI) IS PROVIDED FOR AP LOCATED REMOTE FROM ISLU AND U-INTERFACE IS REQUIRED. (SEE NOTES 58,84). DA EFF:11/19/93 FE/RA:NONE		DA	M	1	ED5D679-30	P		K,V	SD5D158-01	AS3	K,V	
EQUIPMENT REQUIRED IN ADDITION TO LIST 1 WHEN DIAL-UP OR DEDICATED BASIC RATE INTERFACE (BRI) IS PROVIDED FOR AP LOCATED REMOTE FROM ISLU AND T-INTERFACE IS REQUIRED. DA EFF:11/19/93 FE/RA:NONE		DA	N	1	ED5D679-30	Q		K,T	SD5D158-01	AS3	K,T	
EQUIPMENT REQUIRED IN ADDITION TO LIST 1 OR 2 WHEN SMALL COMPUTER SYSTEMS INTERFACE (SCSI) BASED PERIPHERALS ARE PROVIDED, AND ASMDR DIRECT OUTPUT OR REVENUE ACCOUNTING OFFICE (RAO) TAPE CAPABILITY IS REQUIRED. (SEE NOTE 69). DA EFF:11/19/93 FE/RA:NONE		DA	P	1	ED5D679-30	R		F	SD5D158-01	AS1 AS2	F	
EQUIPMENT REQUIRED IN ADDITION TO LIST 2. PROVIDES FOR AN ADDITIONAL TERMINAL AND SLAVE PRINTER FOR ACP ADMINISTRATION. DA EFF:11/19/93 FE/RA:NONE		DA	Q	1	ED5D679-30	S			SD5D158-01	AS2		
EQUIPMENT REQUIRED IN ADDITION TO LIST 2 WHEN THE AP IS CO-LOCATED WITH THE 5ESS SWITCH AND T-INTERFACE IS REQUIRED. (PROVIDE CA2 & CA5 PER NOTE 59). DA EFF:11/19/93 FE/RA:NONE		DA	R	1	ED5D679-30	T		T	SD5D158-01	AS2	T	
EQUIPMENT REQUIRED IN ADDITION TO LIST 1 OR 2 WHEN SCSI BASED PERIPHERAL DISK CONTROLLER IS REQUIRED. (SEE NOTE 69). DA EFF:11/19/93 FE/RA:NONE		DA	S	1	ED5D679-30	R		F	SD5D158-01	AS1 AS2	F	

TABLE-A CONTINUED

TABLE A-FEATURES (CONTINUED)												
EQUIPMENT		RAT- ING	LIST OR GROUP	EQUIPMENT OR CIRCUIT DATA					SD EQUIVALENT			
DESCRIPTION	REF NOTE			QTY	EQUIPMENT OR CIRCUIT	L/G OR FIG	WRG	APP	SCHEMATIC	FIG	OPT	
EQUIPMENT REQUIRED IN ADDITION TO LIST S (PROVIDES DM/147E DISK) (SEE NOTE 54). (MAX 4 LIST T'S). DA EFF:11/19/93 FE/RA:NONE		DA	T	1	ED5D679-30	R		F	SD5D158-01	AS1 AS2	F	
EQUIPMENT REQUIRED IN ADDITION TO LIST S (PROVIDES DM/300E DISK) (SEE NOTE 54). (MAX 4 LIST U'S). DA EFF:11/19/93 FE/RA:NONE		DA	U	1	ED5D679-30	R		F	SD5D158-01	AS1 AS2	F	
EQUIPMENT REQUIRED IN ADDITION TO LIST 2 WHEN THE AP IS CO-LOCATED WITH THE 5ESS SWITCH AND U-INTERFACE IS REQUIRED. (SEE NOTE 84). DA EFF:11/19/93 FE/RA:NONE		DA	V	1	ED5D679-30	U		V	SD5D158-01	AS2	V	
EQUIPMENT REQUIRED IN ADDITION TO LIST 2 WHEN DIAL-UP BASIC RATE INTERFACE (BRI) LINK IS PROVIDED FOR AP CO-LOCATED WITH ISLU AND T-INTERFACE IS REQUIRED. DA EFF:11/19/93 FE/RA:NONE		DA	W	1	ED5D679-30	V		M,T	SD5D158-01	AS4	M,T	
EQUIPMENT REQUIRED IN ADDITION TO LIST 2 WHEN DIAL-UP BASIC RATE INTERFACE (BRI) LINK IS PROVIDED FOR AP CO-LOCATED WITH ISLU AND U-INTERFACE IS REQUIRED. (SEE NOTE 84). DA EFF:11/19/93 FE/RA:NONE		DA	X	1	ED5D679-30	W		M,V	SD5D158-01	AS4	M,V	
REQUIRED IN ADDITION TO LISTS J,V WITHOUT LIST CM WHEN 7 FT CORD IS REQUIRED FROM NT1 POWER SUPPLY TO NT1 (CA4). DA EFF:11/19/93 FE/RA:NONE		DA	Y									
REQUIRED IN ADDITION TO LISTS J,V WITHOUT LIST CM WHEN 14 FT CORD IS REQUIRED FROM NT1 POWER SUPPLY TO NT1 (CA4). DA EFF:11/19/93 FE/RA:NONE		DA	Z									
REQUIRED IN ADDITION TO LISTS J,V WITHOUT LIST CM WHEN 25 FT CORD IS REQUIRED FROM NT1 POWER SUPPLY TO NT1 (CA4). DA EFF:11/19/93 FE/RA:NONE		DA	AA									
REQUIRED IN ADDITION TO LISTS M OR X WITHOUT LIST CM WHEN 7 FT CORD IS REQUIRED FROM NT1 POWER SUPPLY TO NT1 (CA4). DA EFF:11/19/93 FE/RA:NONE		DA	AB									

TABLE-A CONTINUED

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BT13

5ESS SWITCHING EQUIPMENT  
SPECIFICATION FOR  
ADVANCED COMMUNICATIONS PACKAGE  
VERSION 5  
(ACP)

DWG SIZE  
C2

ISSUE  
7

ED5D679-30

AT&T

ED5D679-30

SHEET A3  
OF 21

PRINTED IN U.S.A.

TABLE A-FEATURES (CONTINUED)											
EQUIPMENT		RAT- ING	LIST OR GROUP	EQUIPMENT OR CIRCUIT DATA					SD EQUIVALENT		
DESCRIPTION	REF NOTE			QTY	EQUIPMENT OR CIRCUIT	L/G OR FIG	WRG	APP	SCHEMATIC	FIG	OPT
REQUIRED IN ADDITION TO LISTS M OR X WITHOUT LIST CM WHEN 14 FT CORD IS REQUIRED FROM NT1 POWER SUPPLY TO NT1 (CA4). DA EFF:11/19/93 FE/RA:NONE		DA	AC								
REQUIRED IN ADDITION TO LISTS M OR X WITHOUT LIST CM WHEN 25 FT CORD IS REQUIRED FROM NT1 POWER SUPPLY TO NT1 (CA4). DA EFF:11/19/93 FE/RA:NONE		DA	AD								
REQUIRED IN ADDITION TO LIST H WHEN 7 FT CABLE IS REQUIRED FROM AP TO BLACK BOX PORT SPLITTER (CA6). DA EFF:11/19/93 FE/RA:NONE		DA	AE								
REQUIRED IN ADDITION TO LIST H WHEN 14 FT CABLE IS REQUIRED FROM AP TO BLACK BOX PORT SPLITTER (CA6). DA EFF:11/19/93 FE/RA:NONE		DA	AF								
REQUIRED IN ADDITION TO LIST H WHEN 25 FT CABLE IS REQUIRED FROM AP TO BLACK BOX PORT SPLITTER. DA EFF:11/19/93 FE/RA:NONE		DA	AG								
REQUIRED IN ADDITION TO LISTS A,F,M,N,Q,W,X,B,G,BP WHEN 1 FT DATA CORD IS REQUIRED (CA7). (SEE NOTE 56). DA EFF:11/19/93 FE/RA:NONE		DA	AH								
REQUIRED IN ADDITION TO LISTS A,F,M,N,Q,W,X,B,G,BP WHEN 4 FT DATA CORD IS REQUIRED (CA7). (SEE NOTE 56). DA EFF:11/19/93 FE/RA:NONE		DA	AJ								
REQUIRED IN ADDITION TO LISTS A,F,M,N,Q,W,X,B,G,BP WHEN 10 FT DATA CORD IS REQUIRED (CA7). (SEE NOTE 56). DA EFF:11/19/93 FE/RA:NONE		DA	AK								
REQUIRED IN ADDITION TO LISTS A,F,M,N,Q,W,X,B,G,BP WHEN 25 FT DATA CORD IS REQUIRED (CA7). (SEE NOTE 56). DA EFF:11/19/93 FE/RA:NONE		DA	AL								
REQUIRED IN ADDITION TO LISTS A,F,M,N,Q,W,X,B,G,BP WHEN 50 FT DATA CORD IS REQUIRED (CA7). (SEE NOTE 56). DA EFF:11/19/93 FE/RA:NONE		DA	AM								
REQUIRED IN ADDITION TO LIST L OR BX WHEN 5 FT CABLE IS REQUIRED FROM 2096A DATA SET TO 829A DATA AUX SET (CA8). DA EFF:11/19/93 FE/RA:NONE		DA	AN								
REQUIRED IN ADDITION TO LIST L OR BX WHEN 10 FT CABLE IS REQUIRED FROM 2096A DATA SET TO 829A DATA AUX SET (CA8). DA EFF:11/19/93 FE/RA:NONE		DA	AP								
REQUIRED IN ADDITION TO LIST L OR BX WHEN 15 FT CABLE IS REQUIRED FROM 2096A DATA SET TO 829A DATA AUX SET (CA8). DA EFF:11/19/93 FE/RA:NONE		DA	AQ								
TABLE-A CONTINUED											

TABLE A-FEATURES (CONTINUED)											
EQUIPMENT		RAT- ING	LIST OR GROUP	EQUIPMENT OR CIRCUIT DATA					SD EQUIVALENT		
DESCRIPTION	REF NOTE			QTY	EQUIPMENT OR CIRCUIT	L/G OR FIG	WRG	APP	SCHEMATIC	FIG	OPT
REQUIRED IN ADDITION TO LIST A,J WHEN 1 FT CORD IS REQUIRED (CA10). (SEE NOTE 75). DA EFF:11/19/93 FE/RA:NONE		DA	AR								
REQUIRED IN ADDITION TO LIST A,J WHEN 2.5 FT CORD IS REQUIRED (CA10). (SEE NOTE 75). DA EFF:11/19/93 FE/RA:NONE		DA	AS								
REQUIRED IN ADDITION TO LIST A,J WHEN 7 FT CORD IS REQUIRED (CA10). (SEE NOTE 75). DA EFF:11/19/93 FE/RA:NONE		DA	AT								
REQUIRED IN ADDITION TO LIST A,J WHEN 14 FT CORD IS REQUIRED (CA10). (SEE NOTE 75). DA EFF:11/19/93 FE/RA:NONE		DA	AU								
REQUIRED IN ADDITION TO LIST A,J WHEN 25 FT CORD IS REQUIRED (CA10). (SEE NOTE 75). DA EFF:11/19/93 FE/RA:NONE		DA	AV								
REQUIRED IN ADDITION TO LIST A,J WHEN 50 FT CORD IS REQUIRED (CA10). (SEE NOTE 75). DA EFF:11/19/93 FE/RA:NONE		DA	AW								
REQUIRED IN ADDITION TO LIST A,J WHEN 75 FT CORD IS REQUIRED (CA10). (SEE NOTE 75). DA EFF:11/19/93 FE/RA:NONE		DA	AX								
REQUIRED IN ADDITION TO LIST A,J WHEN 100 FT CORD IS REQUIRED (CA10). (SEE NOTE 75). DA EFF:11/19/93 FE/RA:NONE		DA	AY								
REQUIRED IN ADDITION TO LIST 1,2 OR BX WHEN 7 FT CABLE IS REQUIRED FROM AP TO SYSTEM SANITY MONITOR (CA12). DA EFF:11/19/93 FE/RA:NONE		DA	AZ								
REQUIRED IN ADDITION TO LIST 1,2 OR BX WHEN 14 FT CABLE IS REQUIRED FROM AP TO SYSTEM SANITY MONITOR (CA12). DA EFF:11/19/93 FE/RA:NONE		DA	BA								
REQUIRED IN ADDITION TO LIST 1,2 OR BX WHEN 25 FT CABLE IS REQUIRED FROM AP TO SYSTEM SANITY MONITOR (CA12). DA EFF:11/19/93 FE/RA:NONE		DA	BB								
TABLE-A CONTINUED											

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TABLE A-FEATURES (CONTINUED)											
EQUIPMENT		RAT- ING	LIST OR GROUP	EQUIPMENT OR CIRCUIT DATA					SD EQUIVALENT		
DESCRIPTION	REF NOTE			QTY	EQUIPMENT OR CIRCUIT	L/G OR FIG	WRG	APP	SCHEMATIC	FIG	OPT
REQUIRED IN ADDITION TO LIST 1,2 OR BK WHEN 50 FT CABLE IS REQUIRED FROM AP TO SYSTEM SANITY MONITOR (CA12). DA EFF:11/19/93 FE/RA:NONE		DA	BC								
REQUIRED IN ADDITION TO LIST 1, 2,A,C,D,E,G,M,N,W,X OR CJ WHEN 7 FT CABLE IS REQUIRED (CA13). (SEE NOTE 60). DA EFF:11/19/93 FE/RA:NONE		DA	BD								
REQUIRED IN ADDITION TO LIST 1, 2,A,C,D,E,G,M,N,W,X OR CJ WHEN 14 FT CABLE IS REQUIRED (CA13). (SEE NOTE 60). DA EFF:11/19/93 FE/RA:NONE		DA	BE								
REQUIRED IN ADDITION TO LIST 1, 2,A,C,D,E,G,M,N,W,X OR CJ WHEN 25 FT CABLE IS REQUIRED (CA13). (SEE NOTE 60). DA EFF:11/19/93 FE/RA:NONE		DA	BF								
REQUIRED IN ADDITION TO LIST 1, 2,A,C,D,E,G,M,N,W,X OR CJ WHEN 50 FT CABLE IS REQUIRED (CA13). (SEE NOTE 60). DA EFF:11/19/93 FE/RA:NONE		DA	BG								
REQUIRED IN ADDITION TO LIST BD, BE,BF OR BG (PROVIDES PLUG). DA EFF:11/19/93 FE/RA:NONE		DA	BH								
REQUIRED IN ADDITION TO LIST B, F,G OR Q WHEN 7 FT CABLE IS REQUIRED (CA14). (SEE NOTE 61). DA EFF:11/19/93 FE/RA:NONE		DA	BJ								
REQUIRED IN ADDITION TO LIST B, F,G OR Q WHEN 14 FT CABLE IS REQUIRED (CA14). (SEE NOTE 61). DA EFF:11/19/93 FE/RA:NONE		DA	BK								
REQUIRED IN ADDITION TO LIST B, F,G OR Q WHEN 25 FT CABLE IS REQUIRED (CA14). (SEE NOTE 61). DA EFF:11/19/93 FE/RA:NONE		DA	BL								
REQUIRED IN ADDITION TO LIST B, F,G OR Q WHEN 50 FT CABLE IS REQUIRED (CA14). (SEE NOTE 61). DA EFF:11/19/93 FE/RA:NONE		DA	BM								
REQUIRED IN ADDITION TO LIST BJ, BK,BL OR BM (PROVIDES PLUG). DA EFF:11/19/93 FE/RA:NONE		DA	BN								
REQUIRED IN ADDITION TO LIST A. (SEE NOTES 63 & 67). DA EFF:11/19/93 FE/RA:NONE		DA	BP								
REQUIRED IN ADDITION TO LIST H WHEN BILLBOARDS TERMINALS ARE REQUIRED. (SEE NOTE 70). DA EFF:11/19/93 FE/RA:NONE		DA	BQ								
REQUIRED IN ADDITION TO LIST H WHEN ADDITIONAL PORT SPLITTERS ARE REQUIRED. (SEE NOTE 70). DA EFF:11/19/93 FE/RA:NONE		DA	BR								
REQUIRED IN ADDITION TO LIST BQ OR BR WHEN 7 FT CABLE IS REQUIRED. DA EFF:11/19/93 FE/RA:NONE		DA	BS								

TABLE-A CONTINUED

TABLE A-FEATURES (CONTINUED)											
EQUIPMENT		RAT- ING	LIST OR GROUP	EQUIPMENT OR CIRCUIT DATA					SD EQUIVALENT		
DESCRIPTION	REF NOTE			QTY	EQUIPMENT OR CIRCUIT	L/G OR FIG	WRG	APP	SCHEMATIC	FIG	OPT
REQUIRED IN ADDITION TO LIST BQ OR BR WHEN 14 FT CABLE IS REQUIRED. DA EFF:11/19/93 FE/RA:NONE		DA	BT								
REQUIRED IN ADDITION TO LIST BQ OR BR WHEN 25 FT CABLE IS REQUIRED. DA EFF:11/19/93 FE/RA:NONE		DA	BU								
REQUIRED IN ADDITION TO LIST 1 WHEN UNINTERRUPTIBLE POWER SOURCE IS REQUIRED. DA EFF:11/19/93 FE/RA:NONE		DA	BV	1	ED5D679-30	Y		D	SD5D158-01	AS1	D
REQUIRED IN ADDITION TO LIST 2 WHEN 1KVA INVERTER IS REQUIRED. DA EFF:11/19/93 FE/RA:NONE		DA	BW	1	ED5D679-30	AA		B	SD5D158-01	AS2	B
REQUIRED IN ADDITION TO LISTS 1 OR 2 WHEN SYSTEM MANAGEMENT PACKAGE IS REQUIRED. DA EFF:11/19/93 FE/RA:NONE		DA	BX	1	ED5D679-30	AC		ZA, ZB	SD5D158-01	AS1 AS2	ZA, ZB
REQUIRED IN ADDITION TO LISTS B,F,G,Q OR BP WHEN 4 FT CORD IS REQUIRED (CA7). DA EFF:11/19/93 FE/RA:NONE		DA	BY								
REQUIRED IN ADDITION TO LISTS B,F,G,Q OR BP WHEN 10 FT CORD IS REQUIRED (CA7). DA EFF:11/19/93 FE/RA:NONE		DA	BZ								
REQUIRED IN ADDITION TO LISTS B,F,G,Q OR BP WHEN 25 FT CORD IS REQUIRED (CA7). DA EFF:11/19/93 FE/RA:NONE		DA	CA								
REQUIRED IN ADDITION TO LISTS B,F,G,Q OR BP WHEN 50 FT CORD IS REQUIRED (CA7). DA EFF:11/19/93 FE/RA:NONE		DA	CB								
REQUIRED IN ADDITION TO LISTS 1 OR 2 WHEN ADDITIONAL 7A DISDNI IS REQUIRED. DA EFF:11/19/93 FE/RA:NONE		DA	CC								
REQUIRED IN ADDITION TO LISTS 1 OR 2 WHEN A DM/300S DISK MODULE IS REQUIRED. DA EFF:11/19/93 FE/RA:NONE		DA	CD								
REQUIRED IN ADDITION TO LISTS 1 OR 2 WHEN 93B POLLER OR NCOSS POLLER IS PROVIDED. DA EFF:11/19/93 FE/RA:NONE		DA	CE	1	ED5D679-30	AD					

TABLE-A CONTINUED

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TABLE A-FEATURES (CONTINUED)

EQUIPMENT		EQUIPMENT OR CIRCUIT DATA							SD EQUIVALENT		
DESCRIPTION	REF NOTE	RAT-ING	LIST OR GROUP	QTY	EQUIPMENT OR CIRCUIT	L/G OR FIG	WRG	APP	SCHEMATIC	FIG	OPT
REQUIRED IN ADDITION TO LISTS 1 OR 2, PROVIDES HEAD SET AND ADAPTER WHEN CMSS ATTENDANT IS EQUIPPED WITH ISDN SET. (SEE NOTE 81). DA EFF:11/19/93 FE/RA:NONE		DA	CG	1							
REQUIRED IN ADDITION TO LISTS 1 OR 2 WHEN CENTRONICS PARALLEL PRINTER INTERFACE IS PROVIDED, PROVIDES EXPANDED I/O FEATURE. DA EFF:11/19/93 FE/RA:NONE		DA	CH	1	ED5D679-30	AF					
REQUIRED IN ADDITION TO LISTS 1 OR 2 WHEN OPTIONAL, HIGH SPEED MODEL 446 LINE PRINTER IS REQUIRED. DA EFF:11/19/93 FE/RA:NONE		DA	CJ	1	ED5D679-30	AG					
REQUIRED IN ADDITION TO LISTS 1 OR 2 WHEN ADDITIONAL 615 TERMINAL IS REQUIRED. DA EFF:11/19/93 FE/RA:NONE		DA	CK								
REQUIRED IN ADDITION TO LISTS 1 OR 2 WHEN ADDITIONAL 572 PRINTER IS REQUIRED. DA EFF:11/19/93 FE/RA:NONE		DA	CL								
EQUIPMENT REQUIRED IN ADDITION TO LISTS M OR X OR J OR V WHEN NT1-200 (2B1Q) IS REQUIRED. (SEE NOTE 84). DA EFF:11/19/93 FE/RA:NONE		DA	CM								
REQUIRED IN ADDITION TO LIST CM WHEN 7FT CORD IS REQUIRED FROM NT1 POWER SUPPLY TO NT1-200 (CA10). DA EFF:11/19/93 FE/RA:NONE		DA	CN								
REQUIRED IN ADDITION TO LIST CM WHEN 14FT CORD IS REQUIRED FROM NT1 POWER SUPPLY TO NT1-200 (CA10). DA EFF:11/19/93 FE/RA:NONE		DA	CP								
REQUIRED IN ADDITION TO LIST CM WHEN 25FT CORD IS REQUIRED FROM NT1 POWER SUPPLY TO NT1-200 (CA10). DA EFF:11/19/93 FE/RA:NONE		DA	CQ								
REQUIRED IN ADDITION TO LIST 1 OR 2 TO PROVIDE PORTABLE MESSAGE PRINTER FOR CMPS. (LIST C REQUIRED). DA EFF:11/19/93 FE/RA:NONE		DA	CR								
REQUIRED IN ADDITION TO GROUP 2 WHEN 1KVA INVERTER IS REQUIRED. PROVIDES OVER VOLTAGE PROTECTION. GROUP ADDED TO MAINTAIN OFFICE RECORDS. DA EFF:04/12/94 FE/RA:NONE		DA	CS								
END OF TABLE-A											

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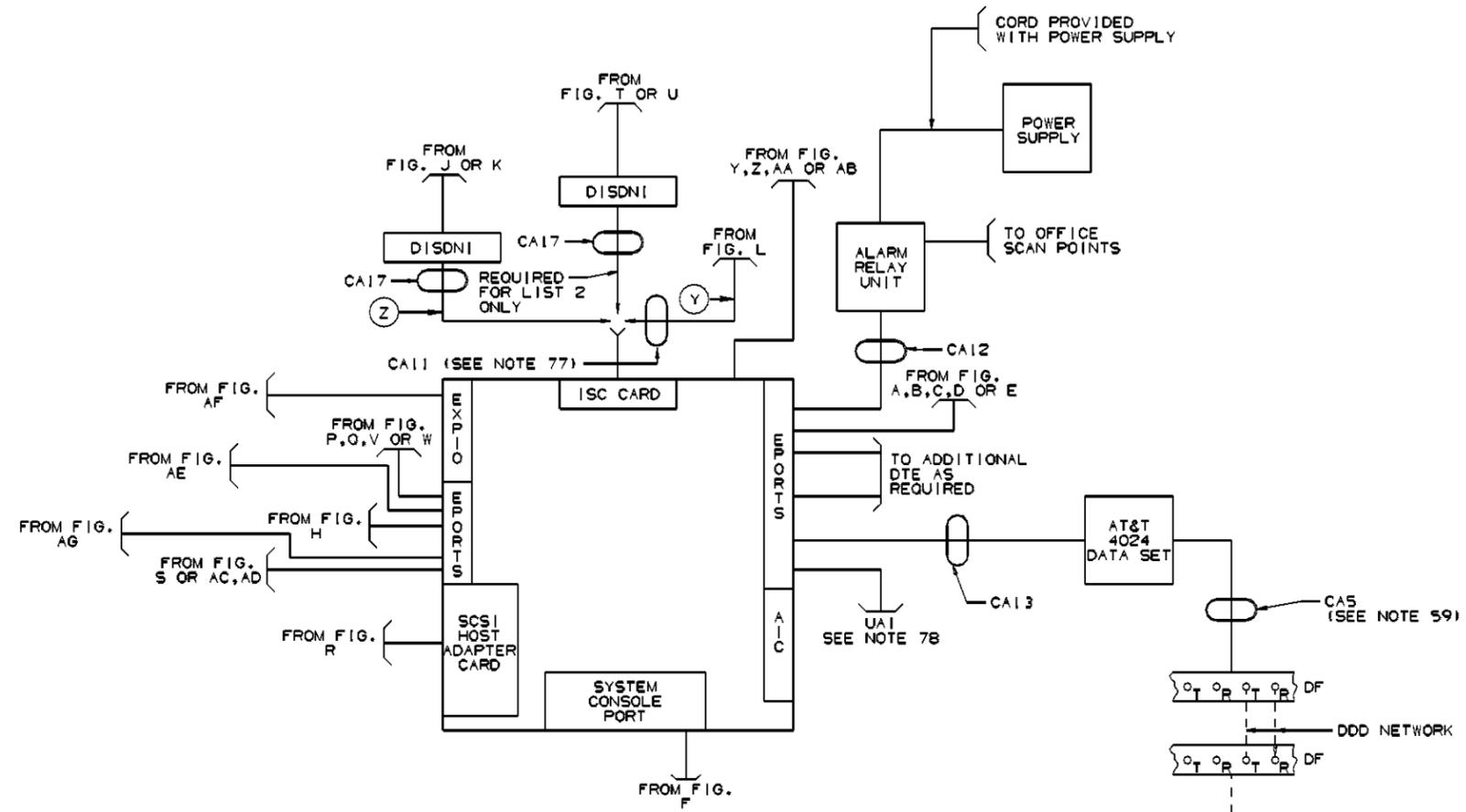


FIG. 1  
 REQUIRED WHEN AP  
 IS CO-LOCATED OR  
 LOCATED REMOTE FROM  
 THE SESS SWITCH

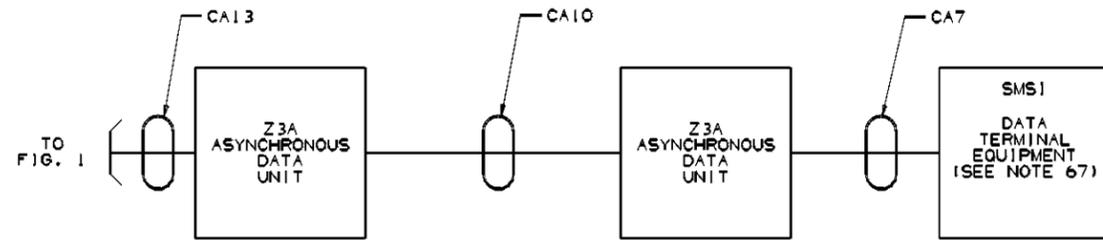


FIG. A

REQUIRED WHEN DTE IS CO-LOCATED WITH AP AND THE DTE IS LOCATED GREATER THAN 50 FEET FROM THE AP

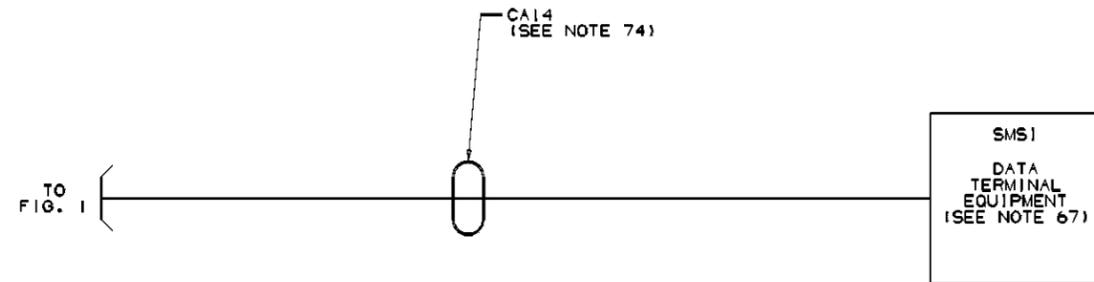


FIG. B

REQUIRED WHEN DTE IS CO-LOCATED WITH AP AND THE DTE IS LOCATED GREATER THAN 50 FEET OF THE AP

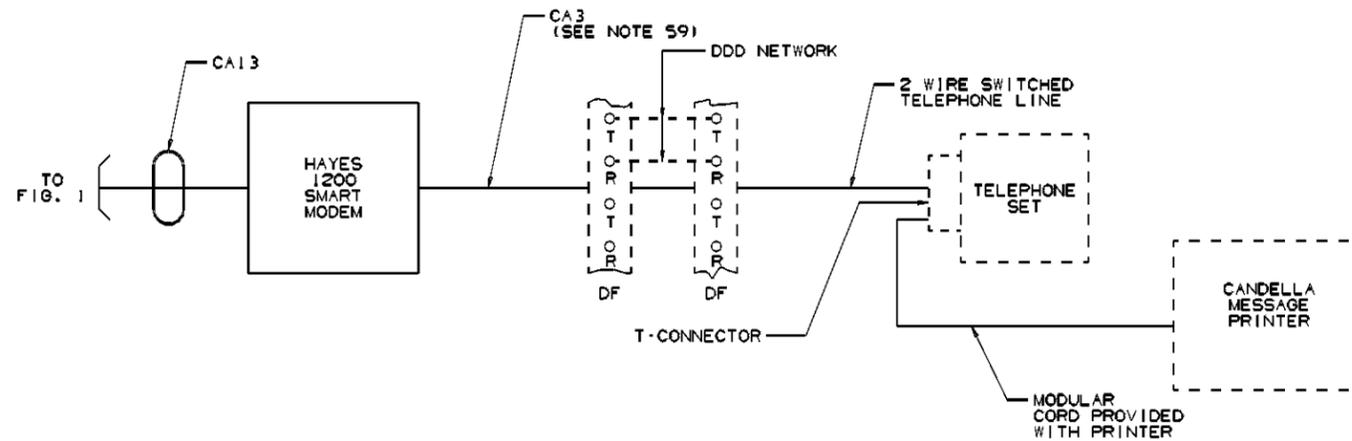


FIG. C

REQUIRED FOR CMPS FEATURE

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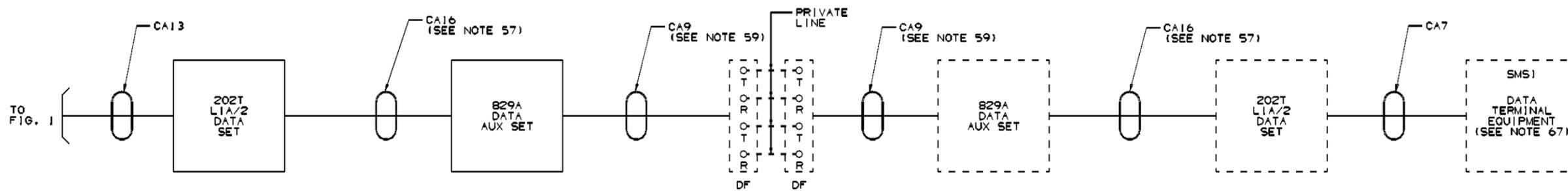


FIG. D  
DEDICATED LINK

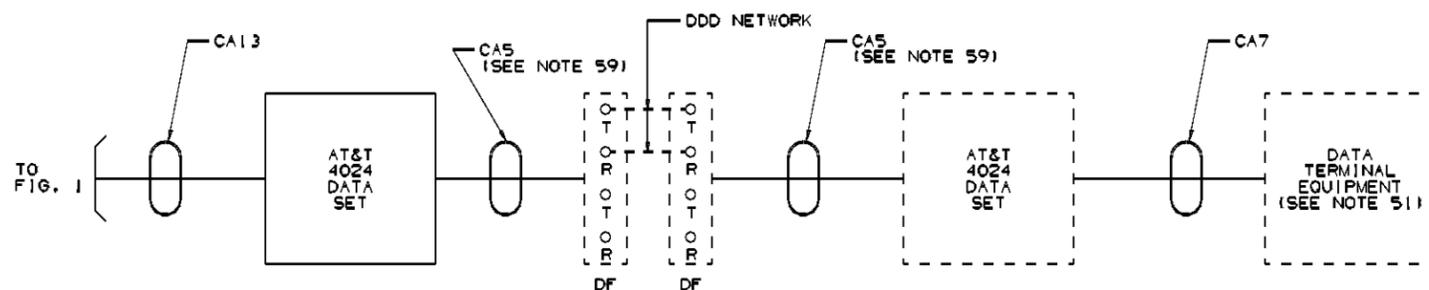


FIG. E  
DIAL-UP LINK

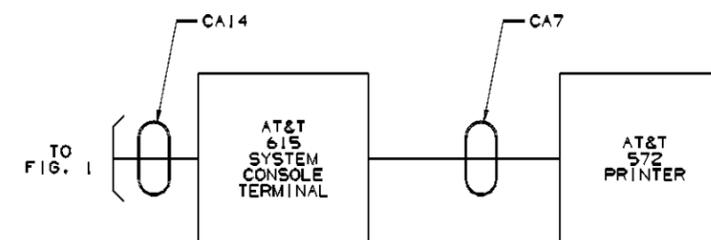


FIG. F  
REMOTE CONSOLE TERMINAL  
IS NOT REQUIRED

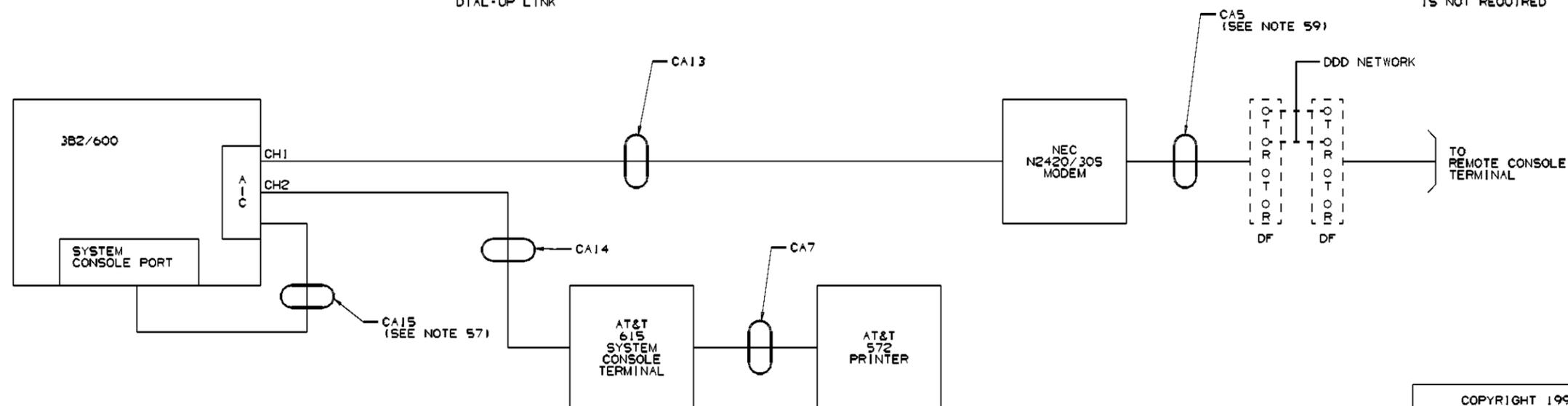


FIG. G  
REMOTE CONSOLE TERMINAL  
IS REQUIRED

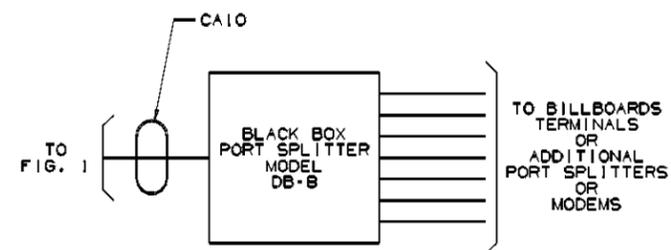


FIG. H  
BILLBOARDS FEATURE

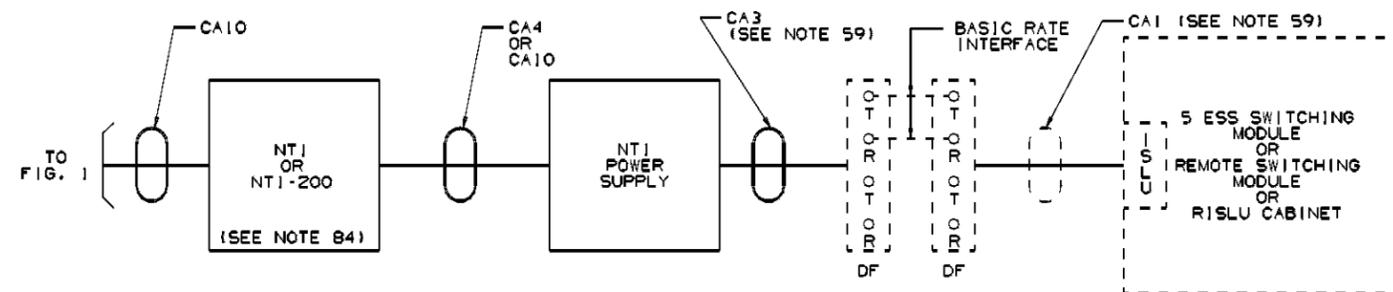


FIG. J  
BASIC RATE INTERFACE  
TO REMOTE LOCATION WITH  
U-INTERFACE

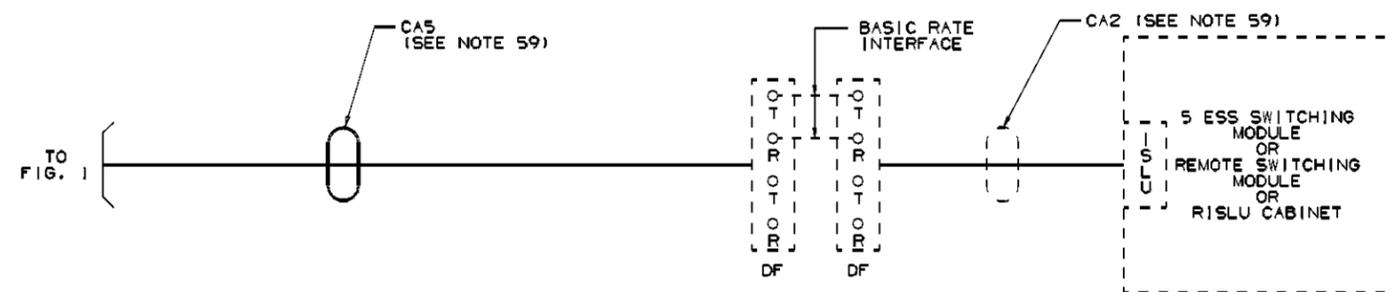


FIG. K  
BASIC RATE INTERFACE  
TO REMOTE LOCATION WITH  
T-INTERFACE

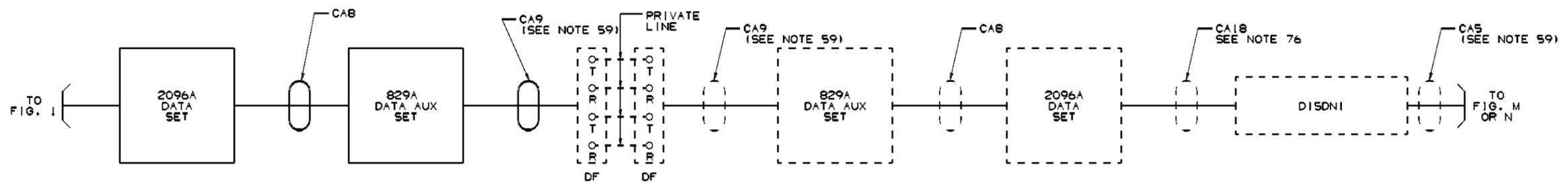


FIG. L  
ANALOG LINK TO REMOTE LOCATION

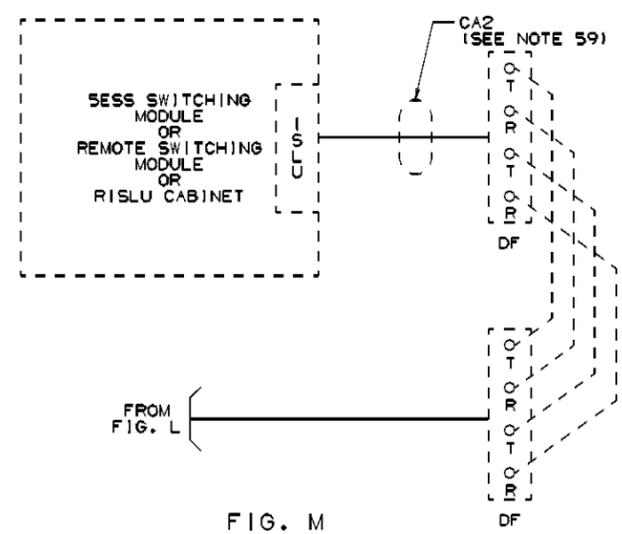


FIG. M  
T-INTERFACE

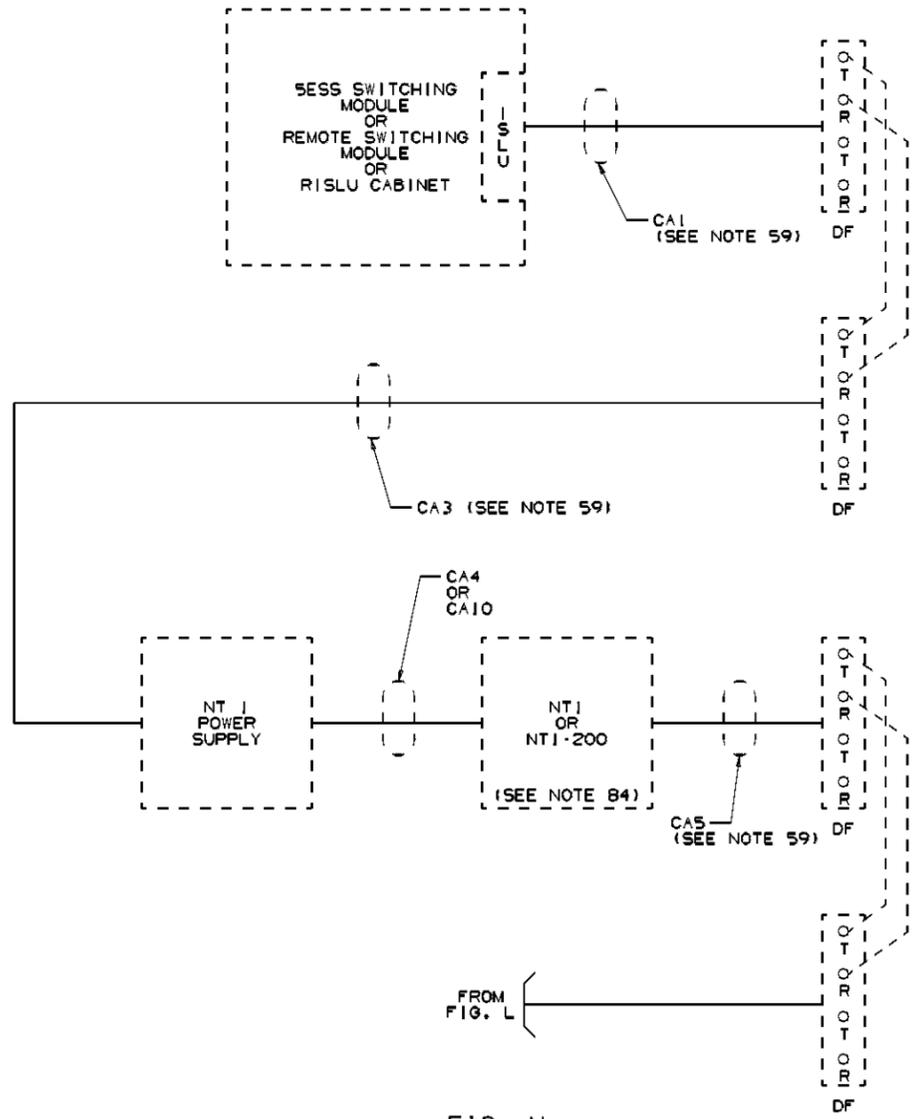


FIG. N  
U-INTERFACE

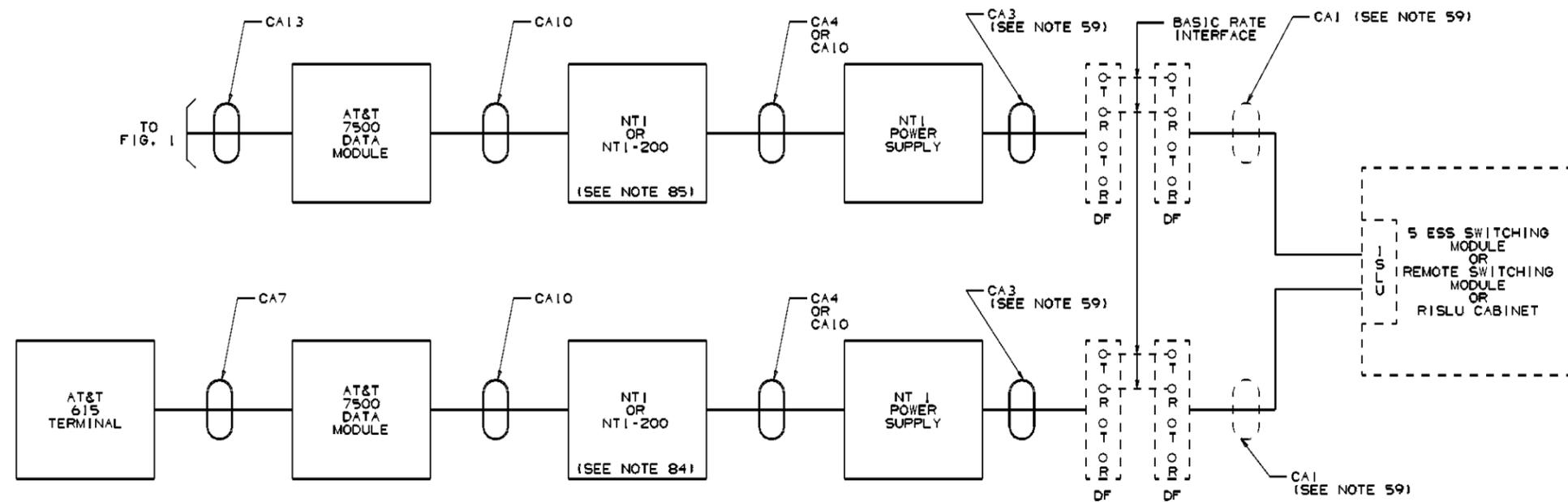


FIG. P  
U-INTERFACE WHEN DIAL-UP OR  
DEDICATED BASIC RATE INTERFACE FOR  
AP LOCATED REMOTE FROM ISLU

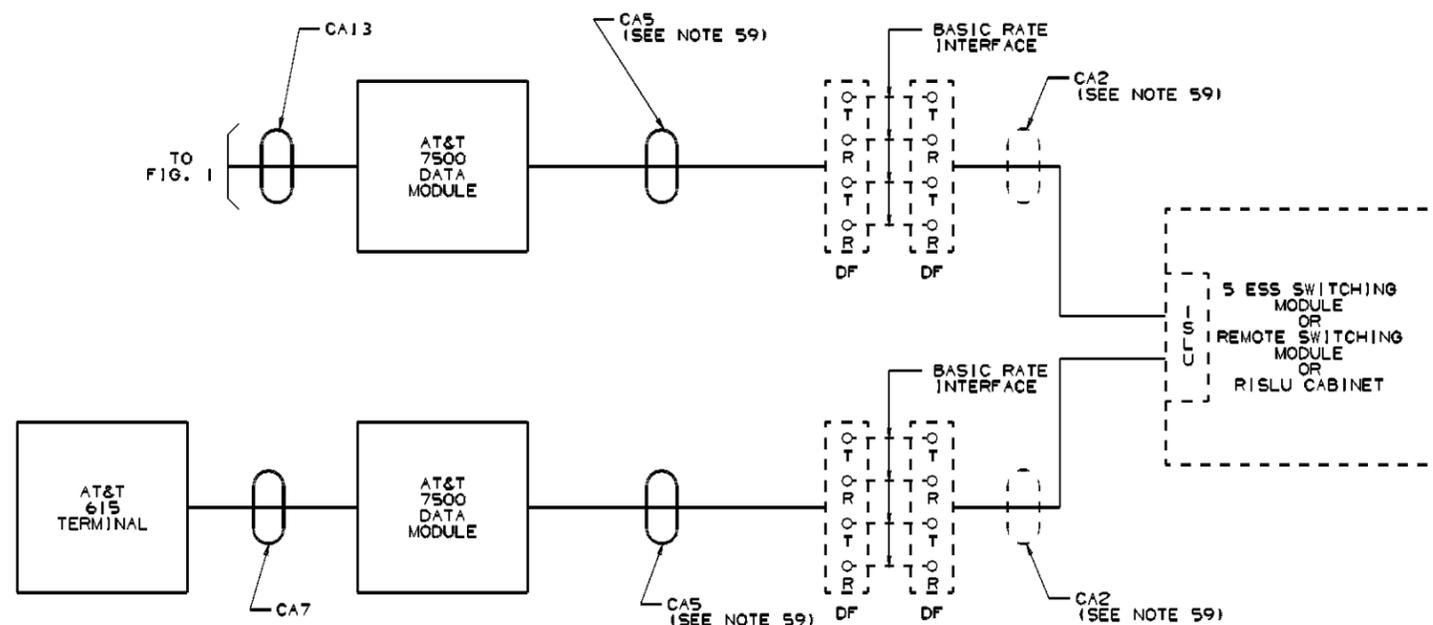
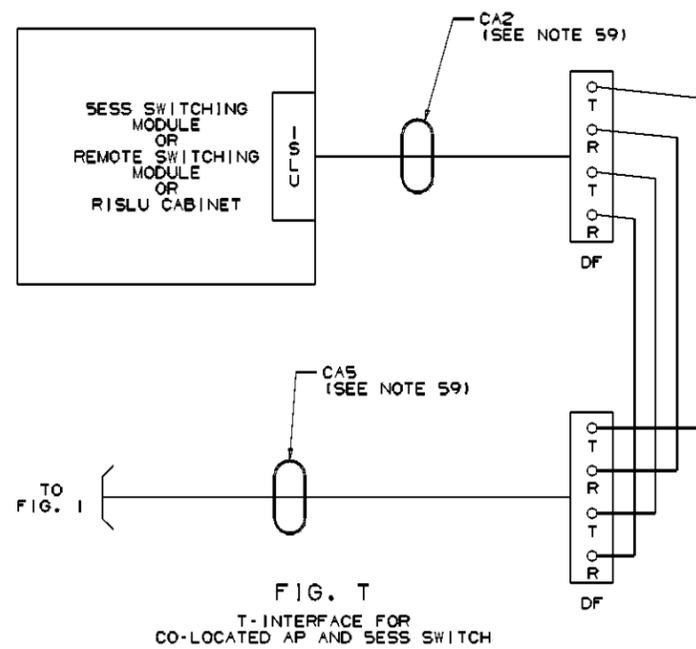
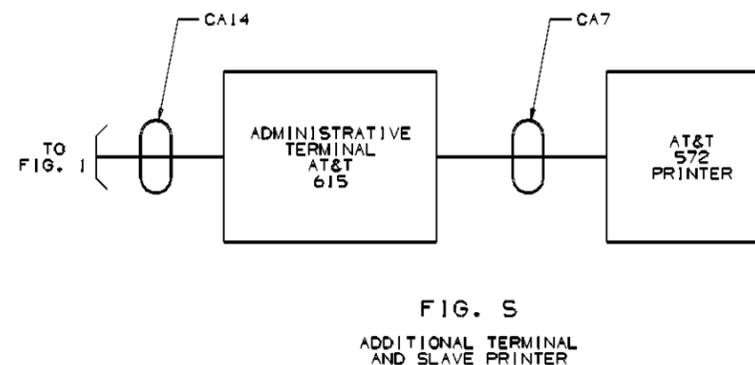
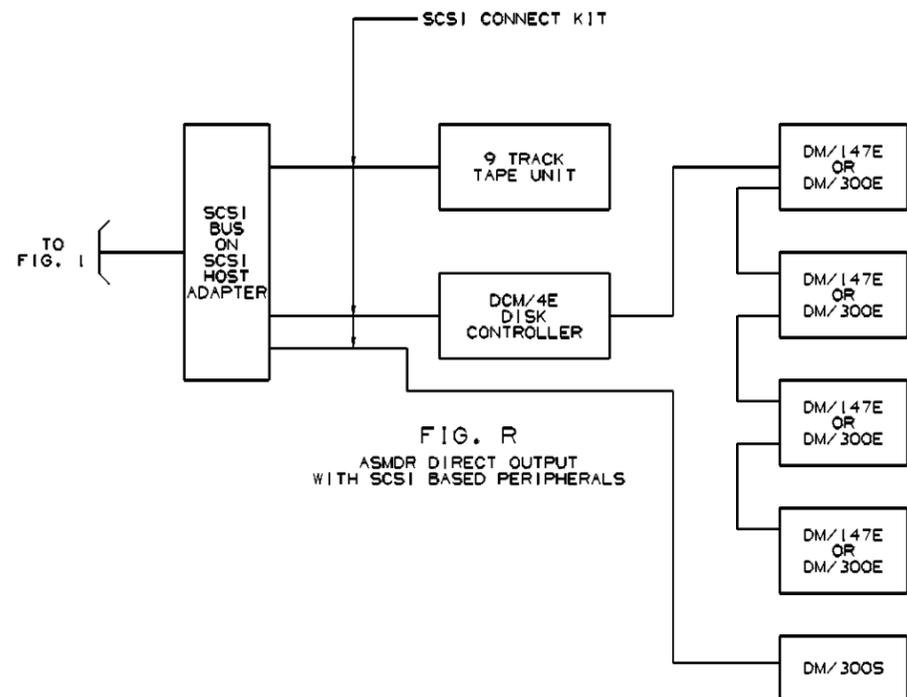


FIG. Q  
T-INTERFACE WHEN DIAL-UP OR  
DEDICATED BASIC RATE INTERFACE FOR  
AP LOCATED REMOTE FROM ISLU



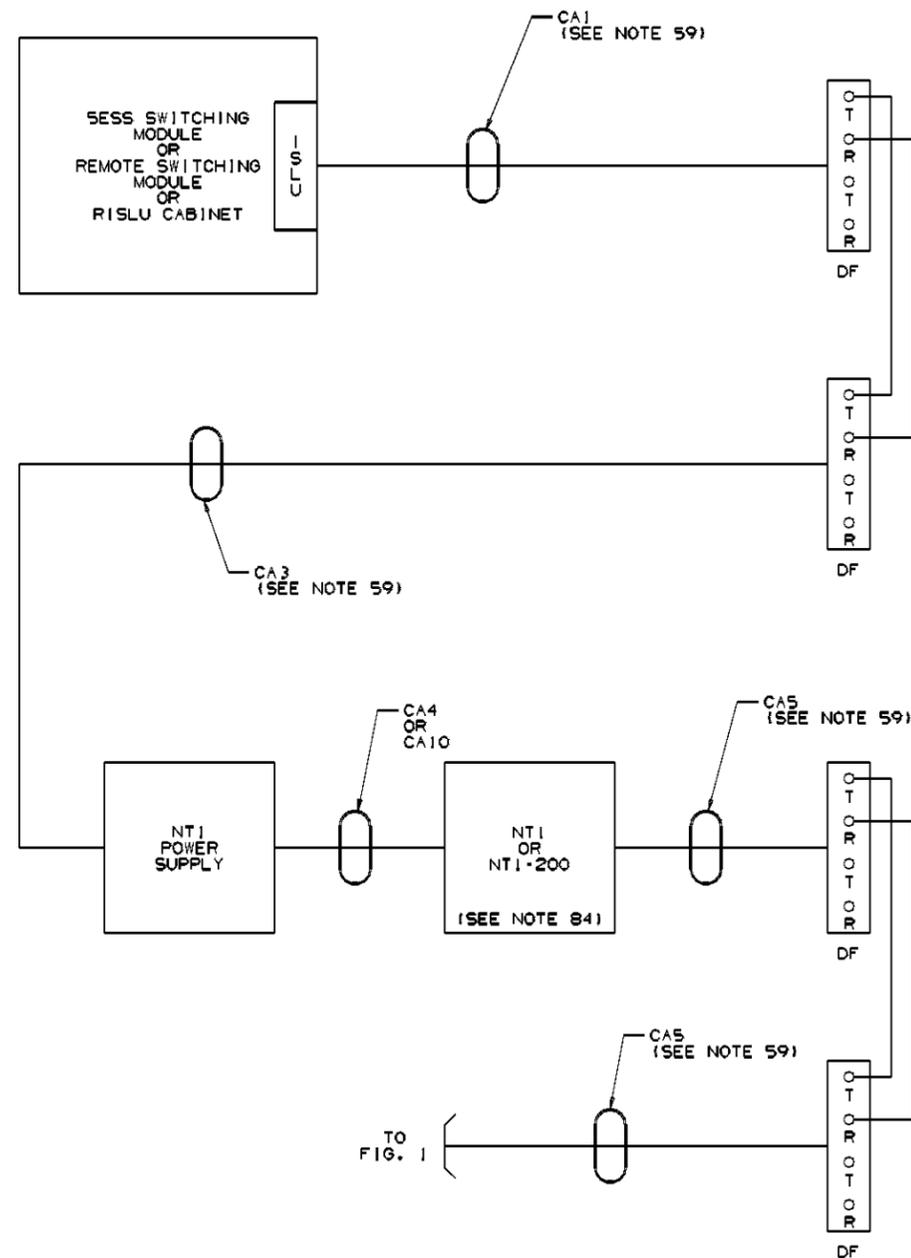


FIG. U  
U-INTERFACE WHEN AP IS  
CO-LOCATED WITH THE SESS SWITCH

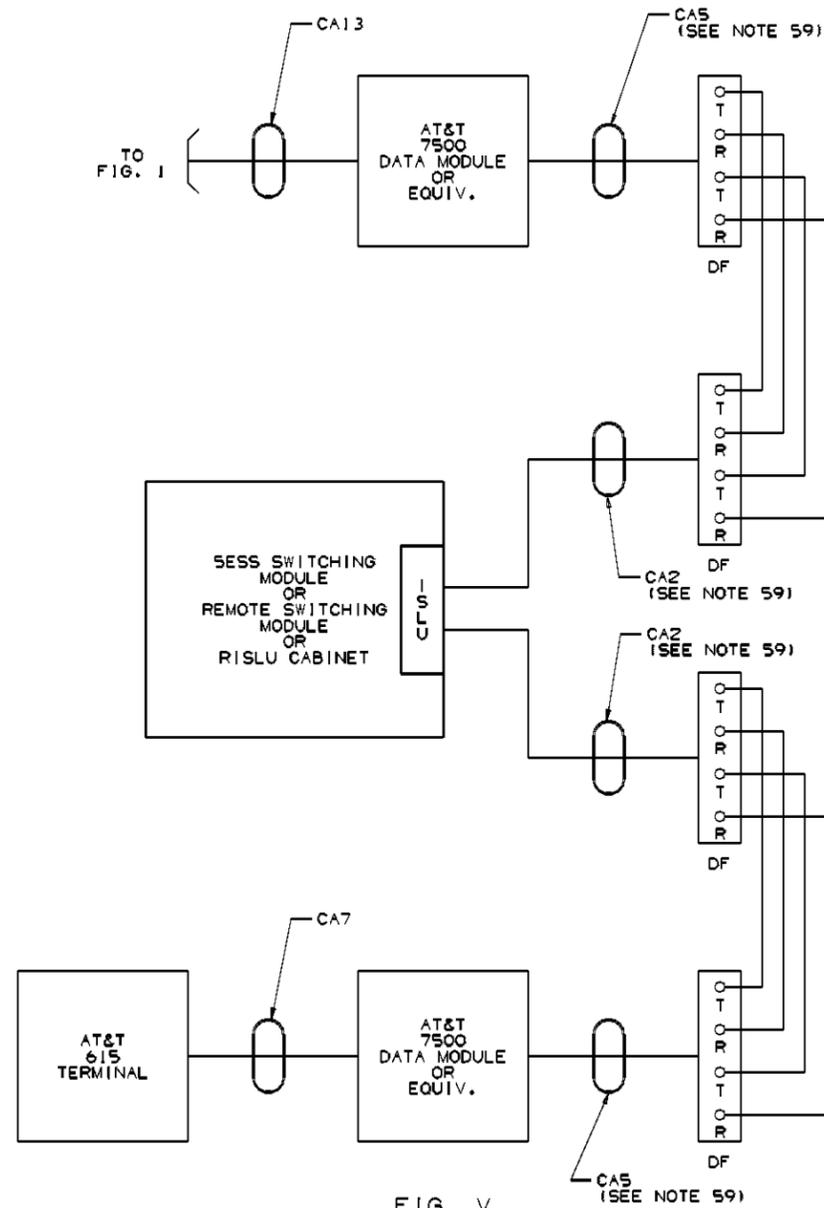


FIG. V  
T-INTERFACE FOR DIAL-UP LINK TO AP  
WHEN AP IS CO-LOCATED WITH ISLU

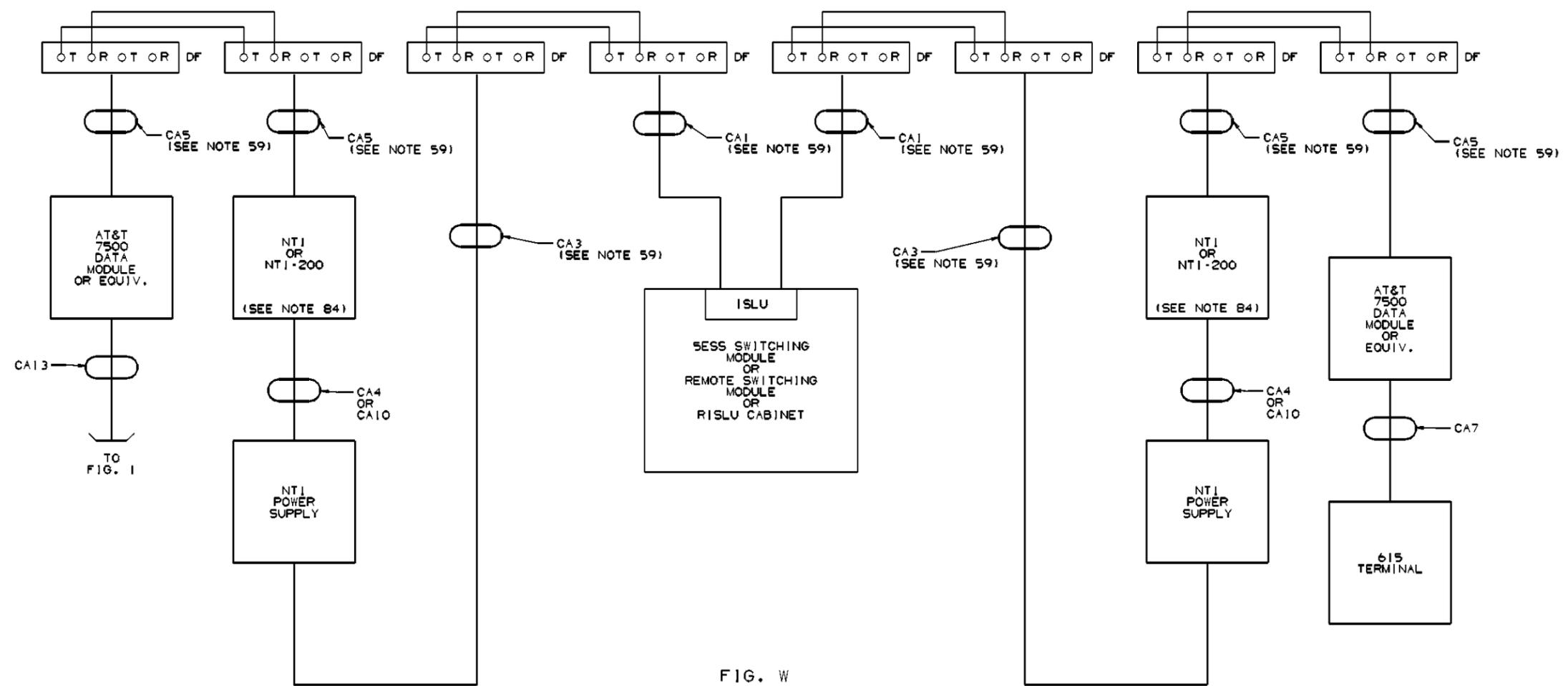
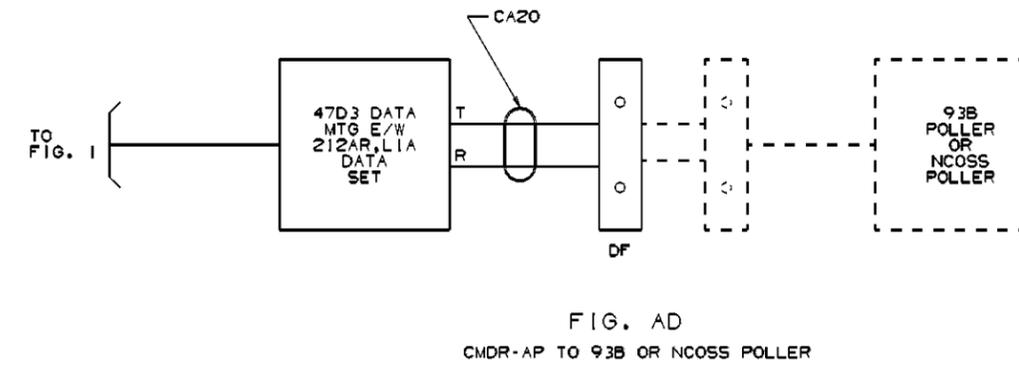
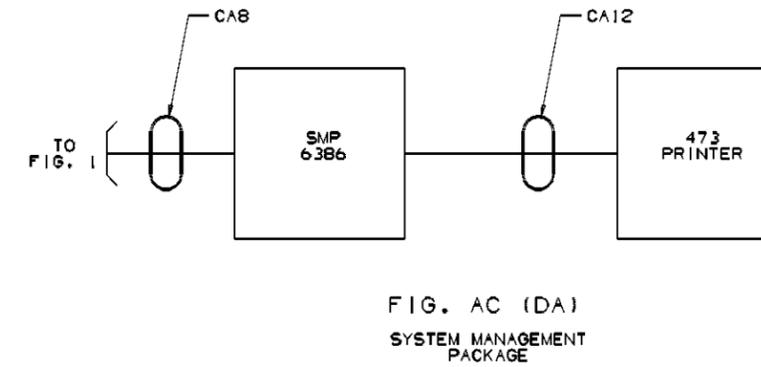
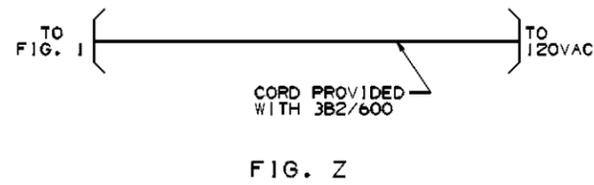
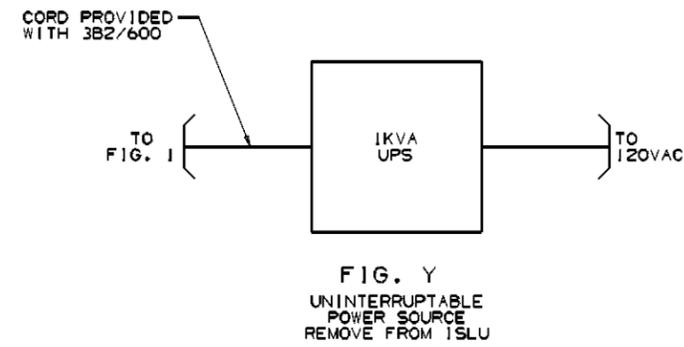
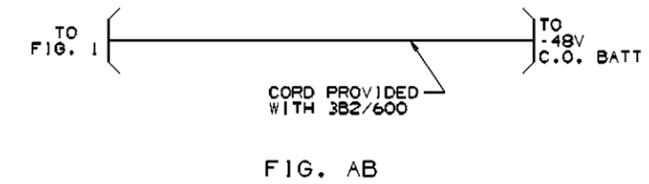
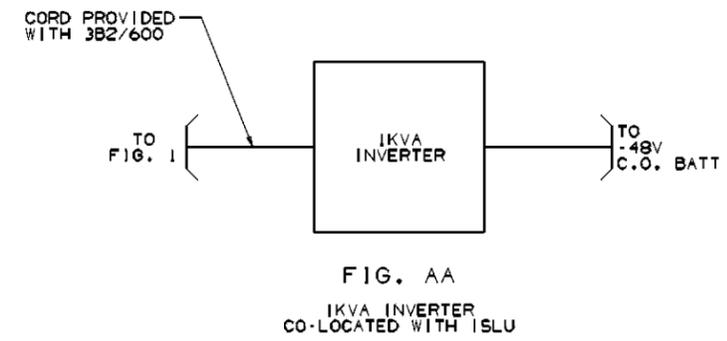
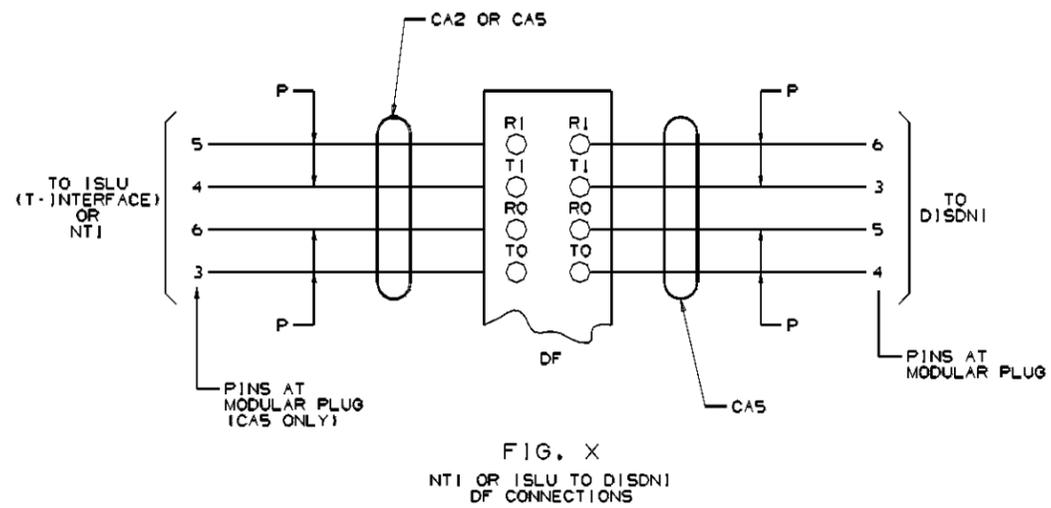


FIG. W  
 U-INTERFACE FOR  
 DIAL-UP BRI LINK TO AP  
 WHEN AP IS CO-LOCATED WITH ISLU



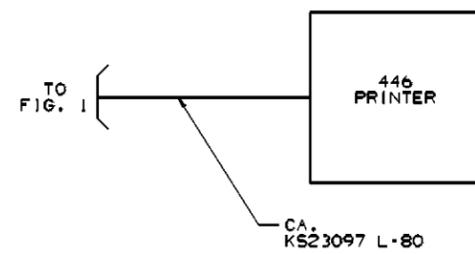


FIG. AF

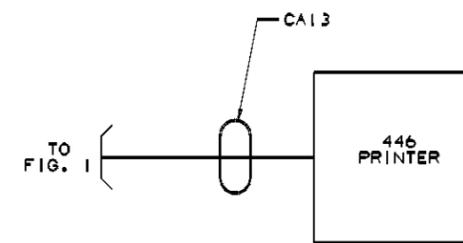


FIG. AG

STOCKLIST								
ITEM NBR	LIST GROUP CODE	QTY PER CODE	PRODUCT IDENTIFIER	CODE	DESCRIPTION	REFERENCE POSITION	NOTE	
							SYM	NBR
1000	1,2	1	200244856	D-182140-1	PART, LOCAL			79
1001	1,2	1	105577100	3B2/600	COMPUTER ED31023-30,G3P		S	
1002	1,2	1	105457865	3B2/600	PACKAGE SOLUTION A,DOMESTIC		S	
1003	1,2	1	105285639	3.1.1V3	PACKAGE SOFTWARE/DOCUMENTATION TAPE		S	
1020	1,2	10	405802596		CARTRIDGE #420866 5-1/4 IN. SERIES II GOLD PLUS DATA ELECTRONICS		S	
1030	1,2	1	105266530	SSM-1	MONITOR, SYSTEM SANITY		S	
1031	1,2	1	J1P158B-1,L1		UNIT, ALARM RELAY		S	
1032	1,2	1	J1P158B-1,L4		UNIT, ALARM RELAY		S	
1040	3	1	104245956	3B2	KIT, CONTROLLER INTELLIGENT SERIAL CLEI = NCGQ018AAA			
1050	4	1	105147185	3B2/310-400	PACKAGE, REMOTE MANAGEMENT			
1051	4	1	105577100	3B2/600	COMPUTER ED31023-30,G3P			
1052	4	1	105457865	3B2/600	PACKAGE SOLUTION A,DOMESTIC			
1053	4	1	105285639	3.1.1V3	PACKAGE SOFTWARE/DOCUMENTATION TAPE			
1060	5	1	105450563	195AY	PACKAGE, ENHANCED PORTS CLEI = NCGQ019AAA			
1070	1,2,E	1	105197263	2224C-L1A	SET, DATA /OR EQUIV.		S	
1080	1,2	2	105467450	7A	UNIT, INTERFACE CLEI = NATAB00AXX		S	
1090	A	2	103963971	Z3A2	UNIT, INTERFACE		S	
1100	A	2	105388466	MSAK-87	CORD 2FT 6IN.		S	
1110	6	1	105253264	3B2/MEM	PACKAGE, MEMORY 4 MB WITH ERROR CORRECTION CODE ECC SOLUTION CLEI = NCGQ020AAA			
1120	7	1	105383111	BR3/600	PACKAGE, SOFTWARE CPLU4.2 APPLICATION			
1130	C	1	405815143		MODEM #1200 HAYES SMART		S	
1140	D	1	103872305	202T-L1A	SET, DATA AT CLEI = 2D02TALCAA /OR EQUIV.		S	
1150	D	1	103872040	47B1	MOUNTING, DATA AT /OR EQUIV.		S	
1160	D,L	1	102860293	829A-L1A	SET, AUXILIARY DATA CLEI = 8D29AABAAA /OR EQUIV.		S	
1170	D,L	1	102906013	44A2	MOUNTING, DATA /OR EQUIV.		S	
1180	B,F,G,M, N,Q,W,X, BP,BQ,CK	1	501002349	55C715AAAA	CONTROLLER 615BCT TELETYPE INC.		S	
1190	B,F,G,H, N,Q,W,X, BP	1	501004865	56K420ADA-VZ	KEYBOARD		S	
1191	B,F,G,M, N,Q,T,W, BP,CK	1	501009013	56K420ADA	KEYBOARD VERSION 3 OEM		S	
1200	B,F,G,M, N,Q,W,BP, BQ,CK	1	501006464	53D410YAA	MONITOR, AMBER 14 IN. 110VAC		S	

STOCKLIST CONTINUED ON SHEET D2

SHOP  
IN  
ST

MANUFACTURING NOTES

1. X PARTS REQUIRED FOR INSTALLATION.

X/ PARTS REQUIRED FOR MANUFACTURE WHEN EQUIPMENT IS SHOP MOUNTED OR BY THE INSTALLER WHEN THE EQUIPMENT IS TO BE FIELD MOUNTED.

\* PARTS THAT ARE TO BE SHIPPED ATTACHED TO OR ENCLOSED IN THE SAME CONTAINER WITH THE ASSOCIATED ASSEMBLED ITEM.

\*/ PARTS (A) REQUIRED FOR MANUFACTURE WHEN EQUIPMENT INVOLVED IS SHOP MOUNTED OR (B) TO BE SHIPPED ATTACHED TO, OR ENCLOSED IN THE SAME CONTAINER WITH THE ASSOCIATED ASSEMBLED ITEM WHEN FIELD MOUNTED.

( ) INDICATES DESIGNATIONS TO BE STAMPED IN ACCORDANCE WITH JOB INFORMATION.

{ } INDICATES DESIGNATIONS SHOWN FOR INFORMATION ONLY AND ARE NOT TO BE STAMPED.

< > INDICATES DESIGNATIONS AND/OR INFORMATION PROVIDED IN ACCORDANCE WITH OTHER INFORMATION.

"W" PARTS ASSEMBLED AT THE SAME TIME THE EQUIPMENT IS MOUNTED.

"W\*" PARTS TO BE (A) SHOP ASSEMBLED, BUT WHICH CANNOT BE ASSEMBLED UNTIL THE ASSOCIATED EQUIPMENT IS BEING MOUNTED, OR (B) SHIPPED ATTACHED TO, OR ENCLOSED IN THE SAME CONTAINER WITH THE ASSOCIATED EQUIPMENT WHEN FIELD MOUNTED.

"S" PARTS NOT ASSEMBLED, SHIPPED SEPARATELY.

A/R AS REQUIRED.

"B" PARTIAL ASSEMBLIES ON OTHER DRAWINGS WITH STOCKLISTS.

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5ESS SWITCHING EQUIPMENT  
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STOCKLIST								
ITEM NBR	LIST GROUP CODE	QTY PER CODE	PRODUCT IDENTIFIER	CODE	DESCRIPTION	REFERENCE POSITION	NOTE	
							SYM	NBR
1210	G	1	405748716		MODEM #N2420/30S NEC DATA COMMUNICATIONS		S	
1220	H,BR	1	405814484		SPLITTER #GH-TL156B PORT MODEL DB8 BLACK BOX		S	
1230	B,F,G,Q, BF	1	500064704		PRINTER #5310-1A0A TELETYPE CORP.		S	
1231	B,F,G,Q, BF,CL	1	405705419		PRINTER #572-9500XR CITOH		S	
1240	B,F,G,Q, BF	1	524272408		ASSEMBLY, TRACTOR PULL TYPE #1P427240 TELETYPE CORP.		S	
1250	J,V	1	405131137		UNIT, TERMINATION #N11U PHILIPS TELECOMMUNICATIONS		S	
1260	J,V	1	104380753	353A	UNIT, POWER		S	
1270	L	OMIT 1	105467450	7A	UNIT, INTERFACE CLEI = NATAB00AXX		S	
1280	L	1	103872503	2096AL1	SET, DATA /OR EQUIV.		S	
1290	L	1	103872214	63A2	MOUNTING, DATA		S	
1300	M,N,W,X	2	105345318	7500A-L2	UNIT, SERVICE DATA		S	
1305	M,N,W,X	2	405509852	WP90110L7	SUPPLY, POWER		S	
1310	M,N,W,X	2	103985933	2000A-L3	UNIT, SERVICE DATA		S	
1311	M,N,W,X	4	403417538		PLUG, ACU MODEM F/3B2 #232-21-25-005 TRW INC.		S	
1320	M,X	2	405131137		UNIT, TERMINATION #N11U PHILIPS TELECOMMUNICATIONS		S	
1330	M,X	2	104380753	353A	UNIT, POWER		S	
1340	P	1	105347306	3B2	PACKAGE, KEYSTONE3 9-TRACK TAPE 6250 BPI DOMESTIC		S	
1343	P	1	105445761	3B2	PACKAGE, ACCESSORY KIT 9-TRACK DOMESTIC		S	
1345	P	1	405677816	KS23495L60	EQUIPMENT, SINGLE-ENDED RECORDER KS23495L10 RCDR EQUIPPED W/KS23495L35 ENCLOSURE		S	
1350	P,S	1	105324982	3B2/600	PACKAGE, SCSI CONNECTOR KIT		S	
1355	CD	1	105324982	3B2/600	PACKAGE, SCSI CONNECTOR KIT		S	
1360	S	1	105157093	3B2/MOD	PACKAGE, DISK CONTROL		S	
1370	T	1	105341135	3B2/DM	PACKAGE, DISK MODULE 147MB DOMESTIC (DM/147E)		S	
1380	U	1	105341341	3B2/DM	PACKAGE, DISK MODULE 300MB DOMESTIC (DM/300E)		S	
1390	Y	1	102937620	D6AP-87	CORD 7 FT. (CA4)		S	
1400	Z	1	102937604	D6AP-87	CORD 14 FT. (CA4)		S	
1410	AA	1	102937588	D6AP-87	CORD 25 FT. (CA4)		S	
1420	AB	2	102937620	D6AP-87	CORD 7 FT. (CA4)		S	
1430	AC	2	102937604	D6AP-87	CORD 14 FT. (CA4)		S	

\*\*\*\*\* STOCKLIST CONTINUED AT RIGHT \*\*\*\*\*

STOCKLIST								
ITEM NBR	LIST GROUP CODE	QTY PER CODE	PRODUCT IDENTIFIER	CODE	DESCRIPTION	REFERENCE POSITION	NOTE	
							SYM	NBR
1440	AD	2	102937588	D6AP-87	CORD 25 FT. (CA4)		S	
1450	AE	1	405814179		CABLE #GH-EL06M-07 BLACK BOX (CA6)		S	
1460	AF	1	405814138		CABLE #GH-EL06M-14 BLACK BOX (CA6)		S	
1470	AG	1	405814088		CABLE #GH-EL06M-25 BLACK BOX (CA6)		S	
1480	AH	1	103062287	M25B-87	CORD 1 FT. (CA7)		S	
1490	AJ,BY	1	102269669	M25B-87	CORD 4FT. (CA7)		S	
1500	AK,BZ	1	102269677	M25B-87	CORD 10 FT. (CA7)		S	
1510	AL,CA	1	102986643	M25B-87	CORD 25 FT. (CA7)		S	
1520	AM,CB	1	103905543	M25B-87	CORD 50 FT. (CA7)		S	
1530	AN	1	100017326	B25A	CABLE, CONNECTOR 5 FT. DOUBLE END (CA8)		S	
1540	AP	1	101619336	B25A	CABLE, CONNECTOR 10 FT. DOUBLE END (CA8)		S	
1550	AQ	1	100017334	B25A	CABLE, CONNECTOR 15 FT. DOUBLE END (CA8)		S	
1560	AR	1	103786760	D8W-87	CORD 1 FT. (CA10)		S	
1570	AS	1	104160148	D8W-87	CORD 2 FT 6 IN (CA10)		S	
1580	AT,CN	1	103786786	D8W-87	CORD 7 FT. (CA10)		S	
1590	AU,CP	1	103786802	D8W-87	CORD 14 FT. (CA10)		S	
1600	AV,CQ	1	103786828	D8W-87	CORD 25 FT. (CA10)		S	
1610	AW	1	103866109	D8W-87	CORD 50 FT. (CA10)		S	

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ITEM NBR	LIST GROUP CODE	QTY PER CODE	PRODUCT IDENTIFIER	CODE	DESCRIPTION	REFERENCE POSITION	NOTE	
							SYM	NBR
1620	AX	1	103866125	DSW-87	CORD 75 FT. (CA10)		S	
1630	AY	1	103866141	DSW-87	CORD 100 FT. (CA10)		S	
1640	AZ	1	403600968		CABLE ASSEMBLY #DKH-7 ANDIRONDACK WIRE & CABLE (CA12)		S	
1650	BA	1	403600976		CABLE ASSEMBLY #DKH-14 14 FT SHIELDED ANDIRONDACK WIRE & CABLE (CA12)		S	
1660	BB	1	403600984		CABLE ASSEMBLY #DKH-25 25 FT SHIELDED ANDIRONDACK WIRE & CABLE (CA12)		S	
1670	BC	1	403600992		CABLE ASSEMBLY #DKH-50 ANDIRONDACK WIRE & CABLE (CA12)		S	
1680	BD,CJ	1	403600968		CABLE ASSEMBLY #DKH-7 ANDIRONDACK WIRE & CABLE (CA13)		S	
1690	BE,CJ	1	403600976		CABLE ASSEMBLY #DKH-14 14 FT SHIELDED ANDIRONDACK WIRE & CABLE (CA13)		S	
1700	BF,CJ	1	403600984		CABLE ASSEMBLY #DKH-25 25 FT SHIELDED ANDIRONDACK WIRE & CABLE (CA13)		S	
1710	BG,CJ	1	403600992		CABLE ASSEMBLY #DKH-50 ANDIRONDACK WIRE & CABLE (CA13)		S	
1720	BH	1	403417538		PLUG, ACU MODEM F/3B2 #232-21-25-005 TRW INC.		S	
1730	BJ	1	403600968		CABLE ASSEMBLY #DKH-7 ANDIRONDACK WIRE & CABLE (CA14)		S	
1740	BK	1	403600976		CABLE ASSEMBLY #DKH-14 14 FT SHIELDED ANDIRONDACK WIRE & CABLE (CA14)		S	
1750	BL	1	403600984		CABLE ASSEMBLY #DKH-25 25 FT SHIELDED ANDIRONDACK WIRE & CABLE (CA14)		S	
1760	BM	1	403600992		CABLE ASSEMBLY #DKH-50 ANDIRONDACK WIRE & CABLE (CA14)		S	
1770	B,F,G,Q, BN,BQ	1	403602717		PLUG, TERMINAL PRINTER F/3B2 #232-21-25-010 TRW INC.		S	
1780	BS	1	405816679		CABLE #GH-BL0MS-07 BLACK BOX		S	
1790	BT	1	405816661		CABLE #GH-BL06MS-14 BLACK BOX		S	
1800	BU	1	405816687		CABLE #GH-BL06MS-25 BLACK BOX		S	
1810	BV	1	105634885	#010C111-AT	SYSTEM, POWER		S	
1820	BW	1	405686783	WP91652L20	INVERTER DC-AC		S	

\*\*\*\*\* STOCKLIST CONTINUED AT RIGHT \*\*\*\*\*

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STOCKLIST								
ITEM NBR	LIST GROUP CODE	QTY PER CODE	PRODUCT IDENTIFIER	CODE	DESCRIPTION	REFERENCE POSITION	NOTE	
							SYM	NBR
1821	CS	1	407106814	WP91652L20A	INVERTER		S	
1830	BX	1	405504499		KEYBOARD #E03417053 KEY-TRONICS		S	
1840	BX	1	405517715		UNIT, CENTRAL PROCESSING #51422R 64-1.2MB FD/135MBHD OLLIVETTI CO.		S	
1850	BX	1	405576398		SOFTWARE #VVR3 WINDOWS 386 VERSION 1.0 MICROSOFT		S	
1860	BX	3	405517228		KIT, MEMORY EXPANSION #51427T 1MB OLIVETTI CO.		S	
1870	BX	1	405568353		BOARD, VIDEO CONTROLLER #VDC750 W/ENHANCED FEATURES WESTERN DIGITAL		S	
1880	BX	1	405515057		MONITOR, 319 COLOR #CRT-319 19-1/2X19-1/2X19-1/2 IN. COMPATIBLE TO EGA REQ. AT&T VDC 750 BOARD HITACHI AMERICA CO.		S	
1890	BX	1	403318959		PRINTER #473-8510EP ITOH JAPAN		S	
1900	BX	1	105678023	2750-C12	CONNECTOR, FEMALE AT&T 3B2		S	
1910	BY	1	102269602	M25A-87	CORD 5 FT. (CA19)		S	
1920	BZ	1	102269610	M25A-87	CORD 9 FT. (CA19)		S	
1930	CA	1	102269610	M25A-87	CORD 9 FT. (CA19)		S	
1940	CB	1	102269610	M25A-87	CORD 9 FT. (CA19)		S	
1950	CC	1	105467450	7A	UNIT, INTERFACE CLEI = NATAB00AAX		S	
1960	CD	CHIT 1	105157693	3B2/HOD	PACKAGE, DISK CONTROL		S	
1970	CD	1	105445886	3B2DM/300S	PACKAGE, DISK DRIVE AT&T SINGLE ENDED SCSI EMBEDDED 5 1/4 IN.		S	
1980	CE	1	103044285	212ARL1A	SET, DATA CLEI = 2D121ACAAA		S	
1990	CE	1	ED5D621-35,G139		CABLE, CONNECTORIZED ASSEMBLY (CA20)		S	
2000	CG	1	403350077	KS22990L2	HEADSET		S	
2010	CG	1	103867552	500A	ADAPTER		S	
2020	CH	1	104270806	3B2/400	COMPUTER E/W I/O EXPANSION PORTS PACKAGE		S	
2030	CH	1	403752272	KS23097L80	CABLE 9 FT CENTRONIX INTERFACE KNE RESOURCES		S	

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ITEM NBR	LIST GROUP CODE	QTY PER CODE	PRODUCT IDENTIFIER	CODE	DESCRIPTION	REFERENCE POSITION	NOTE	
							SYM	NBR
2040	CH,CJ	1	540002466		PRINTER #446-LB1000-003 DATA PRODUCTS		S	
2050	CJ	1	403602717		PLUG, TERMINAL PRINTER F/3B2 #232-21-25-010 TRW INC.		S	
2060	CM	1	405897133		UNIT, TERMINATION #NT1U-200 AT&TEN PHILLIPS		S	
2070	CM	OMIT 1	405131137		UNIT, TERMINATION #NT1U PHILIPS TELECOMMUNICATIONS		S	
2080	CR	1	406264903		PRINTER, THERMAL #233A000 AMTELCO		S	

\*\*\*\*\* END OF STOCKLIST \*\*\*\*\*

TABLE JJ

TABLE JJ STOCKLIST ORDERING COMCODES TO INDIVIDUAL/SINGULAR COMCODES CROSS REFERENCE		
STOCKLIST ORDERING COMCODE	INDIVIDUAL/SINGULAR COMCODE	COMMENTS
\$200244556\$	\$105252365\$ \$105252407\$ \$105393045\$	

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