

TABLE A										
SHEET INDEX										
SD DWG & T DWG SHEET ISSUES ARE IN AGREEMENT AS FOLLOWS										
SCHEMATIC										
SD-3F021-01										
WIRING DIAGRAM										
ISSUE										
AUTO CHG	SH NO.	1	2	3	4	5	6	7	8	9
	A1	1	2	3	4	5	6	7	8	9
	A2	1	2	3	4	5	6	7	8	9
	A3	-	-	-	-	5	5	5	8	8
	A4	-	-	-	-	-	-	-	8	9
	B1	1	2	3	4	5	5	5	5	5
	B2	1	1	3	3	5	5	5	5	5
	D1	1	2	3	4	5	5	7	8	9
	D2	1	1	1	1	1	1	1	1	1
	D3	1	2	3	3	5	5	5	8	8
	D4	1	1	3	3	5	5	5	8	9
	D5	1	1	1	1	5	5	5	8	8
	D6	1	1	3	3	5	5	5	8	9
	D7	1	1	3	3	5	5	5	8	9
	D8	1	1	3	3	5	5	5	8	9
	D9	1	1	3	3	5	5	5	8	9
	D10	1	1	3	3	5	5	5	8	9
	D11	1	1	3	3	5	5	5	8	9
	D12	1	1	3	3	5	5	5	8	9
	D13	1	1	3	3	5	5	5	8	9
	D14	1	1	3	3	5	5	5	8	9
	D15	1	1	3	3	5	5	5	8	9
	D16	1	1	1	1	1	1	7	8	8
	D17	-	-	3	4	5	5	5	8	9
	D18	-	-	-	-	5	5	5	5	5
	D19	-	-	-	-	5	5	5	8	9

TABLE E - FEATURE TABLE										
ITEM	SD ISS	DESCRIPTION	SPECIFY				AUTO OPT	REMARKS		
			FIG.	MRG	APP	QTY				
EA	EB	EC	ED	EE	EF	EG	EH			
1	1	NO. 5E TOLL DIGITAL FACILITY ACCESS CIRCUIT.	*5			1				
2		PROVIDES AC POWER AND ALARM SCAN FUNCTIONS.	1 8			1				
A	1	PROVIDES AC POWER FOR THE FIRST GROUP OF FIVE DIGITAL SERVICE DATA LINKS.	6			1				
B		PROVIDES AC POWER FOR THE SECOND GROUP OF FIVE DIGITAL SERVICE DATA LINKS.	6			1				
C	4B (DA REPL BY ITEM H)	56Kbps DATA RATE	COLLOCATED OFFICE LINK	NOT CONTROL OFFICE YES		Z OR Y	(Z=500B DSU) (Y=TP556A DSU)			
D				CONTROL OFFICE			MAX. TEN DXTS (SEE NOTES 58, 61, 62, 64, AND 69)			
E				NO		X OR W	(X=550A CSU) (W=TP551 CSU)			
F		REQUIRED FOR EACH DIGITAL SERVICE ADAPTER UNIT MOUNTING.	H2			V	1			
G		REQUIRED FOR EACH CHANNEL SERVICE UNIT MOUNTING.	H4			X, V	1			
H	4B (DA)	REQUIRED FOR EACH 56Kbps DATA SERVICE UNIT (Z2556A, L1/3 TYPE DSU/CSU).	10 (H4)			V, HV	1			
J	7A	PROVIDES A 56Kbps DATA SERVICE UNIT. (Z2556A, L1A/3 DSU)	11				1			
K		REQUIRED IN ADDITION TO ITEM J TO PROVIDE A COMPATIBLE DIGITAL SERVICE ADAPTER CIRCUIT (TF9DP) AND CONNECTORIZED CABLE	12 (H1) (H4) (H4)			U	1			
L		PROVIDE ONLY IN ADDITION TO ITEM J, WHEN ITEM H WAS/IS NOT PROVIDED. (ADAPTER CABLE)	(H1)			HV	1			
M	9B	PROVIDES 10 CIRCUITS PER CABLE	(H4)			T	1			
N		1 DXT PER CABLE	(4)			S	1			
P		WHEN "X" OPTION IS PROVIDED	(H4)			(H4)T, (H4)X	1			
Q		WHEN "Z" OPTION IS PROVIDED WITHOUT "X" OPTION	(H2)			(H4)T, (H4)V	1			
R		WHEN "V" OPTION IS PROVIDED	(10)			(H4)T, (10)HV	1			
		WHEN FIG. 11 IS PROVIDED	(11)			(H4)T, U (11)HV	1			

MANUFACTURING NOTES

- UNLESS OTHERWISE SPECIFIED ALL WIRES TO BE 24DP.
- SM1 - SURFACE WIRING TO BE 24DP COLORED GREEN UNLESS OTHERWISE SPECIFIED AND RUN AS SURFACE WIRING.
- PT - LEADS PART OF APPARATUS.
- PIGTAIL LEADS OF RELAY WINDINGS NETWORKS SHALL CONNECT TO U AND L RELAY WINDING TERMINALS UNLESS OTHERWISE SHOWN.
- INSULATE ALL UNCONNECTED LEADS.
- LW - DENOTES 26DP WIRE UNLESS OTHERWISE SPECIFIED, COLORED AS SPECIFIED AND TO BE RUN LOOSE ON FRAME PER LWJ3F0108-1.
- D3 - WIRING TO BE 26DP COLORED GREEN UNLESS OTHERWISE SPECIFIED AND RUN AS DIRECT WIRING.
- RATING "AVAIL" AND "DA" INDICATE THE AVAILABILITY OF THE PRODUCT. PRIOR RATING OF "STD" AND "MD" INDICATE APPLICATION INFORMATION.

ENGINEERING NOTES

- FOR ENGINEERING INFORMATION AND SD- & T- DWG CROSS REFERENCE TABLE SEE TABLE A.
- ITEMS DESIGNATED WITH NUMBERS ARE COMMON FEATURES. ITEMS DESIGNATED BY LETTERS ARE OPTIONAL FEATURES.
- ITEMS DESIGNATED WITH AN ASTERISK IN TABLE E CONTAIN FIGURES OR OPTIONS REQUIRED BUT NOT COVERED ON ASSOCIATED STANDARD EQUIPMENT MANUFACTURING DRAWING.
- FR. EXPT: J3F0108-1 DIGITAL FACILITY ACCESS CAB. (NO. 5E TOLL UNIT)
EXPT: J3F0108A-1 DIGITAL SERVICE ADAPTER MTG
J3F0108B-1 AC POWER UNIT
J3F0108E-1 DATA SERVICE UNIT MTG
J3F0108F-1 CHANNEL SERVICE UNIT MTG
J3F0108G-1 AC DISTRIBUTION UNIT
J5D003AU-1 FUSE FILTER UNIT
- CONNECTING DRAWINGS:
T-3F020-11 5ESS RING NODE CAB. DXT.
T-4C100-11 PROCESSOR CONTROL DXT.
T-82518-11 POWER DISTRIBUTION DXT.
T-5D023-11 FUSE FILTER PANEL DXT.

(ENGINEERING NOTES CONTINUED ON SHEET A2)

W001B010CB-3	10-29-84
RPR RPR RET JRS	1
TBL E ITEMS C, D & E CLARIFIED. NOTES 58 AND 64 AND FIG. 9 ADDED.	6-18-85
CL D	
JFL JFL RET	2
FIG. 3, 4 & 9 WERE RATED STANDARD. FIG. 10, V WIRING ADDED.	5-2-86
CL B	
MGS MGS RET	3
WIRING IN FIG. 4 FROM FIG. H2 ADDED FOR CLARIFICATION.	5-26-87
CL D	
MGS MGS RET	4
FIG. 11, 12 AND OPTION U AND HV ADDED.	5-12-88
CL A	
BJG JFL RET	5
NOTE 69 ADDED.	7-5-88
CL A	
MJH JFL RET	6
HN14 CABLE CHG'D FROM G478A TO G101. HN15 CABLE PER G478B REV'D.	7-18-89
CL A	
BRK JFL RET	7
TBL E, OPTIONS D, R, S AND T ADDED.	9-20-89
CL B	
BJG JFL RET	8
TBL G, COL GN, G102A-K, G103A-K, & G104A-K READ G102BA-BK, G103BA-BK & G104BA-BK RESP. ISSUE NOTE 7, C90007CB READ C90009CB.	11-16-89
CL B	
BRK JFL RET	9

CHANGE ON ISSUE	SPECIFY IF OFFICE RECORDS	DO NOT SPECIFY THIS OPTION WAS FURNISHED	SEE NOTE	AVAIL	ADM	DA
8	Q, R, S, T	T	0	R, S, T		
5	(10)V, HV	FIG. (11)HV	FIG. (10)V, HV	(11)HV	(10)V, HV	
5		FIG. 12	FIG. 2	12	Z	
5		FIG. 11, U	FIG. 10	11, U	10	
5		FIG. (H4) "U" MRG	FIG. (H2, H4) V MRG	U	V	
3		V	W, X, Y, Z	V	W, X, Y, Z	
3	3, 4, 9	10	3, 4, 9	10	3, 4, 9	

TABLE B - RECORD OF FIGURES, COMPONENTS, AND WIRING CHANGES

LINE	FIG.	OPT	SHEET
20	HA, HB		D5
	H4	T	D5
	4	S	D4
15	HA	U	D18
	H4	X, V	B2
	12		D3
	11	Q, U, HV	D19
	10	R, V, HV	D17
10	8		D16
	6		B1
	6		D4
	5		D1, D2
	H4		B2, D5
5	4	X, W	B1, D4
	3, 9	Z, Y	F3
	H2	V, R	D6-D15, B1
	2		D5
1	1		D16

TABLE D - SHEET LOCATION OF FIGURES AND OPTIONS

LINE	CA	CB	CC	CD	CE	CF
15						
10						
5						
	(10)	V	(11)	HV		
1	7		5			PART OF SD-50023-01

TABLE C - SD DWG & T DWG CROSS-REFERENCE

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AW03

COMMON CHANNEL SIGNALLING SYSTEM
COMMON NETWORK INTERFACE
NO. 5E TOLL
DIGITAL FACILITY ACCESS CIRCUIT

DWG SIZE: C2
ISSUE: 9

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TABLE G - CABLING

ITEM	FIG.	OPT.	LEADS PER FIG.	CABLES PER UNIT	CODE	FROM	CA DESIG	EOPT LOC	TO	CA DESIG	EOPT LOC	CABLE SHIELD	REMARKS
	GA	GB	GC	GD	GE	GF	GG	GH	GJ	GK	GL	GM	GN
1						DFA CAB.	HN1						RE-SERV-ED
2	HA	T	20	1	265R		HN2	CHANNEL SERVICE UNIT (46-P1-106, 34-P1-106)	DIGITAL DATA SERVICE FACILITY OR TO () OF AS REQ'D			3 SEE NOTE 63	FORMED PER ED-3F004-31, G26B (TRANSMIT LEADS)
3			20	1	265R		HN3	CHANNEL SERVICE UNIT (46-P1-100, 34-P1-100)					FORMED PER ED-3F004-31, G27B (RECEIVE LEADS)
4	H2		18	1			HN4	DSA UNIT (40-014-113)	LINK NODE DXT		RING NODE CABINET	3	FORMED PER ED-3F004-31, G17BA
5			18				HN5	DSA UNIT (40-022-113)					FORMED PER ED-3F004-31, G17BB
6			18				HN6	DSA UNIT (40-030-113)					FORMED PER ED-3F004-31, G17BC
7			18				HN7	DSA UNIT (40-038-113)					FORMED PER ED-3F004-31, G17BD
8			18				HN8	DSA UNIT (40-046-113)					FORMED PER ED-3F004-31, G17BE
9			18				HN9	DSA UNIT (40-074-113)					FORMED PER ED-3F004-31, G17BF
10			18				HN10	DSA UNIT (40-082-113)					FORMED PER ED-3F004-31, G17BG
11			18				HN11	DSA UNIT (40-090-113)					FORMED PER ED-3F004-31, G17BH
12			18				HN12	DSA UNIT (40-098-113)					FORMED PER ED-3F004-31, G17BJ
13			18				HN13	DSA UNIT (40-106-113)					FORMED PER ED-3F004-31, G17BK
14	8		8	1	812A		HN14	POWER UNIT (P1)(113-64) (P2)PLUG 6 (P2)(09-64) (P1)PLUG	ALARM SCAN POINT (044-100)			3	FORMED PER ED-3F004-31, G101
15	10 OR 11	R OR G	4	1	812A	DFA CAB.	HN15	DSU 01 (NET) JK	DIGITAL DATA SERVICE FACILITY OR TO () OF AS REQ'D			3	FORMED PER ED-3F004-31, G102A
16			4				HN16	DSU 02 (NET) JK					FORMED PER ED-3F004-31, G102B
17			4				HN17	DSU 03 (NET) JK					FORMED PER ED-3F004-31, G102C
18			4				HN18	DSU 04 (NET) JK					FORMED PER ED-3F004-31, G102D
19			4				HN19	DSU 05 (NET) JK					FORMED PER ED-3F004-31, G102E
20			4				HN20	DSU 06 (NET) JK					FORMED PER ED-3F004-31, G102F
21			4				HN21	DSU 07 (NET) JK					FORMED PER ED-3F004-31, G102G
22			4				HN22	DSU 08 (NET) JK					FORMED PER ED-3F004-31, G102H
23			4				HN23	DSU 09 (NET) JK					FORMED PER ED-3F004-31, G102J
24			4				HN24	DSU 10 (NET) JK					FORMED PER ED-3F004-31, G102K
25	4	S	4	1	812A	DFA CAB.	HN25	CSU 01 (LINE) TERM	DIGITAL DATA SERVICE FACILITY OR TO () OF AS REQ'D			3	FORMED PER ED-3F004-31, G103A
26			4				HN26	CSU 02 (LINE) TERM					FORMED PER ED-3F004-31, G103B
27			4				HN27	CSU 03 (LINE) TERM					FORMED PER ED-3F004-31, G103C
28			4				HN28	CSU 04 (LINE) TERM					FORMED PER ED-3F004-31, G103D
29			4				HN29	CSU 05 (LINE) TERM					FORMED PER ED-3F004-31, G103E
30			4				HN30	CSU 06 (LINE) TERM					FORMED PER ED-3F004-31, G103F
31			4				HN31	CSU 07 (LINE) TERM					FORMED PER ED-3F004-31, G103G
32			4				HN32	CSU 08 (LINE) TERM					FORMED PER ED-3F004-31, G103H
33			4				HN33	CSU 09 (LINE) TERM					FORMED PER ED-3F004-31, G103J
34			4				HN34	CSU 10 (LINE) TERM					FORMED PER ED-3F004-31, G103K

(CONT'D IN SHEET A4)

ENGINEERING NOTES (CONT)

69. THE 550A CHANNEL SERVICE UNIT PER FIG. 4, "X" OPTION REQUIRES THE ADDITION OF A HEAT SINK (COMCODE 845602887). THE CHANNEL SERVICE UNIT EQUIPPED WITH A HEAT SINK IS IDENTIFIED BY CLEI CODE DDCS7108AA.
70. THE TWO OPTION STRAPS LOCATED ON THE TF9 CIRCUIT BOARD ARE FACTORY SET FOR PROPER OPERATION AND SHOULD NOT BE ALTERED. IN THE EVENT THAT THESE OPTIONS NEED TO BE VERIFIED THE PROPER CONFIGURATION IS AS SHOWN IN FIG. 12 AND NOTED BELOW:
 A). CONNECTOR J1 SHOULD HAVE PINS 2 & 3 STRAPPED WITH SHORTING PLUG P1.
 B). CONNECTOR J2 SHOULD HAVE PINS 2 & 3 STRAPPED WITH SHORTING PLUG P2.
71. AT&T 2556 L1A/3 DSU OPTION SWITCH SETTING: THE 2556-SERIES DSU'S ARE SHIPPED WITH THE MOST COMMONLY USED OPTIONS SELECTED. THE DSU HAS ONE 12 POSITION DUAL IN-LINE SWITCH AND FOUR STRAP PLUGS TO SELECT OPTIONS. THE OPTIONS SELECTED MUST BE COMPATIBLE WITH THE "JOB CONDITIONS;" THESE OPTION SETTINGS ARE LISTED BELOW:

12 POSITION DIP-SWITCH

POSITION	SETTING	FUNCTION
1	ENABLE	REMOTE DIGITAL LOOPBACK
2	DISABLE	ELASTIC STORE
3	ENABLE	DATA MODE
4	DISABLE	CIRCUIT ASSURANCE
5	DISABLE	SYSTEM STATUS
6	*****	TIMING OPTIONS
7	*****	TIMING OPTIONS
8	DISABLE	STREAMING
9	ENABLE	CONTINUOUS/SHUTTED RTS
10	ENABLE	SPEED OPTIONS
11	ENABLE	SPEED OPTIONS
12	ENABLE	SPEED OPTIONS

*****SWITCH POSITIONS 6 AND 7 ARE "JOB CONDITIONS" THAT DETERMINE TIMING AS LISTED IN THE TABLE BELOW:

TIMING	POSITION 6	POSITION 7
DCS	DISABLE	DISABLE
MASTER	DISABLE	ENABLE
SLAVE	ENABLE	DISABLE

IF OPERATING IN THE LOW MODE (COLOCATED STATION, METALLIC) THE MASTER DSU MUST BE SET FOR MASTER TIMING, WHILE THE SLAVE DSU IS SET FOR SLAVE TIMING. WHEN OPERATING IN THE COLOCATED CONFIGURATION, THE STP END IS NORMALLY THE MASTER AND END-OFFICE IS THE SLAVE. IN DCS OPERATION (VIA CARRIER) BOTH DIP SWITCH POSITION, 6 AND 7 ARE DISABLED.

STRAP PLUG OPTIONS

STRAP PLUG	REQUIRED SETTING
SIGNAL/FRAME GROUND	DISABLE
TEST MODE INDICATION	ENABLE
LOCAL LOOPBACK/DTE	ENABLE
FRONT PANEL DISABLE	ENABLE

THE FOUR STRAP PLUGS ARE LOCATED ON THE MAIN CIRCUIT BOARD AND BEHIND THE FRONT PANEL. THESE STRAPS PLUGS SHOULD NOT BE CONFUSED WITH THE UPGRADE PIN FIELDS WHICH ARE ADJACENT TO THE DIP-SWITCH (THE UPGRADE PIN FIELDS ARE FACTORY OPTIONS WHICH ARE NOT TO BE REMOVED OR ALTERED).

BY POSITIONING THE UNIT WITH THE CONNECTORS TO THE REAR AND THE DIP SWITCH TO THE FRONT RIGHT, THE STRAPS ARE LOCATED AND STRAPPED AS FOLLOWS: SIGNAL/FRAME GROUND (SG FG) AND TEST MODE INDICATION (TM) ARE REARMOST AND SHOULD HAVE THEIR UNCONNECTED PINS FOREMOST AND REARMOST RESPECTIVELY. LOCAL LOOPBACK IS IN FRONT OF THE SG AND TM STRAP PLUGS AND IT SHOULD HAVE ITS UNCONNECTED PIN REARMOST. THE FRONT PANEL DISABLE STRAP IS LOCATED ON THE VERTICAL CIRCUIT BOARD BEHIND THE FRONT PANEL ASSEMBLY NEAR THE CENTER OF BOARD, IT SHOULD BE STRAPPED SO THE MAJOR AXIS OF THE PLUG IS ORIENTED PARALLEL TO THE PLANE OF THE CIRCUIT BOARD RATHER THAN PERPENDICULAR TO IT. DETAILED INFORMATION MAY BE FOUND IN "DATAPHONE 11 2500-SERIES DATA SERVICE UNITS USER'S MANUAL", P. 10 AND PP. 35-88, ISSUE 3 JANUARY 1988, DOCUMENT NO. 999-100-188.

ENGINEERING NOTES (CONT)

56. ED-3F003-10 OFFICE GROWTH AND CABLING PLAN SHALL BE USED FOR FLOOR PLAN LAYOUT, FRAME GROWTH AND METHOD OF RUNNING CABLE.
57. TEL AND TTY CIRCUIT MULT FOR PRECEDING AND SUCCEEDING DIGITAL FACILITY ACCESS CABINET SHALL BE PROVIDED BY ED-50500-11,G4Z
58. (A) FOR A LINK TO A COLOCATED OFFICE WHICH DOES NOT REQUIRE A CSU (FIG. 4) A THREE ENDED CABLE PER ED-3F004-31,G20 (BA-BK) IS CONNECTED AT THE DSA POSITION (FIG. 2) AND AT THE P1 CONNECTOR (FIG. H4) ON THE CSU MOUNTING. THE KS CONNECTOR OF THE G20 CABLE SHALL BE UNCONNECTED AT THE UNUSED POSITION OF THE CSU (FIG. 4) AND A CABLE PER ED-3F004-31,G18 (BA-BK) SHALL BE UNCONNECTED AT THE P1 CONNECTOR (FIG. H4).
 (B) FOR ALL OTHER TYPES OF LINKS, THE CABLE PER ED-3F004-31,G20 (BA-BK) IS CONNECTED AT THE DSA UNIT POSITION (FIG. 2) AND AT THE ASSOCIATED CSU VIA THE KS CONNECTOR. THE TERMINATION OF THE ED-3F004-31,G20 (BA-BK) AT THE P1 CONNECTOR (FIG. H4) SHALL BE OMITTED. THE ED-3F004-31,G18 (BA-BK) SHALL BE CONNECTED BETWEEN THE CSU (FIG. 4) AND THE P1 CONNECTOR (FIG. H4) ON THE CSU MOUNTING.
59. THE CABLE LENGTH BETWEEN THE OUTPUT OF THE LINK NODE LOCATED ON THE RN CABINETS TO THE DIGITAL DATA SERVICE UNITS LOCATED ON THE DFA CABINET SHALL NOT EXCEED 200 FEET.
60. SER ED-3F011-10 TABLE AA FOR SCAN LEAD AND OTHER TERMINATING INFORMATION AT THE PROCESSOR CONTROL (PC)(3820).
61. THE DATA SERVICE UNIT (FIG. 3) SHOULD BE SET PER (DA) ATP595-200-101 AND ATP595-200-201 FOR OPTIONS YL, YR, XL, XR AND XD.
62. THE CHANNEL SERVICE UNIT (FIG. 4) SHOULD BE SET (DA) PER ATP595-100-100 AND ATP595-100-200 FOR OPTIONS WY AND YL.
63. WHEN (HN2) TRANSMIT CABLE ED-3F004-31,G26B AND RECEIVE (HN3) CABLE ED-3F004-31,G27B REACH THE CABLE RACK THEY SHOULD BE SEPARATED FROM EACH OTHER BY 3 INCHES FOR CABLE RUNS OF LESS THAN 100 FEET AND 6 INCHES FOR CABLE RUNS OF MORE THAN 100 FEET.
64. (A) THE 112A MODULE (FIG. 9) IS USED TO INTERNALLY MODIFY A 500B DSU (FIG. 3) FROM A 500B DSU TO 502B DSU. INSTALLATION INSTRUCTIONS ARE PROVIDED WITH THE 112A MODULE.
 (B) FOR ONE TYPE LINKS OF 1000 FEET OR LESS USING 26AWG OR LARGER CABLE, A 502B DSU IN ONE OFFICE DESIGNATED THE CONTROL OFFICE (2 STR) IS CABLED VIA THE DSA UNIT (FIG. 2) TO A 500B DSU IN THE OTHER (COLOCATED) OFFICE AND NO CSU'S (FIG. 4) ARE REQUIRED.
65. FOR USE WITH THE 2556A DSU/CSU. CONNECTION BETWEEN THE DSA AND THE P1 TERMINAL STRIP PROVIDED BY THE 3-ENDED CABLE PER ED-3F004-31, G20BA THRU G20BK IS ALWAYS REQUIRED. THE CONNECTION AT THE CSU MOUNTING IS OMITTED. CABLE PER ED-3F004-31, G18BA THRU G18BK IS MFR DISC.
66. WHEN THIS CIRCUIT IS MODIFIED IN THE FIELD FOR THE ADDITION OF FIG. 11 WITH "U" OPTION, CABLE PER, ED-3F004-31, G75BL SHALL BE SPECIFIED INSTEAD OF G75BA THRU G75BK. CABLES PER ED-3F004-31, G75BL ARE FURNISHED UNSTAMPED. STAMPING SHALL BE ADDED USING CABLE LABELS TO CREATE CABLES G75BA THRU G75BK FOR SPECIFIC DSU CIRCUIT REQUIRED.
67. THE 2556A, L1A/3 DSU IS NOT A DIRECT REPLACEMENT FOR THE 2556A, L1/3 DSU. THEREFORE WHEN A 2556A, L1/3 DSU IS REMOVED FOR MAINTENANCE PURPOSES, IT SHALL BE REPLACED BY A 2556A, L1/3 DSU ONLY.
68. THE CIRCUIT COMPATIBILITY BETWEEN THE DATA SERVICE UNITS AND THE DIGITAL SERVICE ADAPTER CIRCUIT IS CRITICAL TO CIRCUIT OPERATION AND IS SHOWN BELOW.

DATA SERVICE UNIT	DIGITAL SERVICE ADAPTER
500 TYPE	TF5
TP556A	TF5
2556A, L1/3	TF5
2556A, L1A/3	TF9

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NO. 5E TOLL DIGITAL FACILITY ACCESS CIRCUIT	DWG SIZE	ISSUE
	C2	9
AT&T	T-3F021-11	SHEET A2

TABLE GG								
CONNECTORIZED INTRA-FRAME CABLING								
ITEM	FIG.	DPT.	CABLES PER FIG.	CABLE DESIGNATION	FROM		TO	
					UNIT	TERM	UNIT	TERM
COL	GA	GB	GC	GD	GE	GF	GH	GJ
1	H4	X	1	ED-3F004-31,G18BA	J3F010BF-1	300	CSU 01	LINE LOOP TERMINALS T,R,T1,R1
2				ED-3F004-31,G18BB	CSU MTG 0	303	CSU 02	
3				ED-3F004-31,G18BC	"P1" TERM	306	CSU 03	
4				ED-3F004-31,G18CD	BD (EQL 34-P1)	309	CSU 04	
5				ED-3F004-31,G18BE		313	CSU 05	
6				ED-3F004-31,G18BF	J3F010BF-1	300	CSU 06	
7				ED-3F004-31,G18BG	CSU MTG 1	303	CSU 07	
8				ED-3F004-31,G18BH	"P1" TERM	306	CSU 08	
9				ED-3F004-31,G18BJ	BD (EQL 46-P1)	309	CSU 09	
10				ED-3F004-31,G18BK		313	CSU 10	
11	3,		1	ED-3F004-31,G19BA	J3F010BE-1	UNIT 01	J3F010BA-1	40-014-109
12	10	HV		ED-3F004-31,G19BB	DSU MTG 0	UNIT 02	DSA MTG	40-022-109
13				ED-3F004-31,G19BC	"J2" CONN (EQL 16)	UNIT 03		40-030-109
14				ED-3F004-31,G19BD		UNIT 04		40-038-109
15				ED-3F004-31,G19BE		UNIT 05		40-046-109
16				ED-3F004-31,G19BF	J3F010BE-1	UNIT 06		40-074-109
17				ED-3F004-31,G19BG	DSU MTG 1	UNIT 07		40-082-109
18				ED-3F004-31,G19BH	"J2" CONN (EQL 51)	UNIT 08		40-090-109
19				ED-3F004-31,G19BJ		UNIT 09		40-098-109
20				ED-3F004-31,G19BK		UNIT 10		40-106-109
21	H2,	V	1	ED-3F004-31,G20BA	J3F010BA-1	40-014-106	J3F010BF-1	300
22	H4			ED-3F004-31,G20BB	DSA MTG	40-022-106	CSU MTG 0	303
23				ED-3F004-31,G20BC		40-030-106	"P1" TERM	306
24				ED-3F004-31,G20BD		40-038-106	BD (EQL 34-P1)	309
25				ED-3F004-31,G20BE		40-046-106		313
26				ED-3F004-31,G20BF		40-074-106	J3F010BF-1	300
27				ED-3F004-31,G20BG		40-082-106	CSU MTG 1	303
28				ED-3F004-31,G20BH		40-090-106	"P1" TERM	306
29				ED-3F004-31,G20BJ		40-098-106	BD (EQL 46-P1)	309
30				ED-3F004-31,G20BK		40-106-106		313
31	H2		1	ED-3F004-31,G48BA	J3F010BA-1	40-014-100	J5D003AU-1	(0)TS
32				ED-3F004-31,G48BB	DSA MTG	40-022-100	FUSE FILTER UNIT	(1)TS 02,03
33				ED-3F004-31,G48BC		40-030-100		(1)TS 12,13
34				ED-3F004-31,G48BD		40-038-100		(1)TS 22,23
35				ED-3F004-31,G48BE		40-046-100		(1)TS 32,33
36				ED-3F004-31,G48BF		40-074-100		(1)TS 42,43
37				ED-3F004-31,G48BG		40-082-100		(1)TS
38				ED-3F004-31,G48BH		40-090-100		(1)TS
39				ED-3F004-31,G48BJ		40-098-100		(1)TS
40				ED-3F004-31,G48BK		40-106-100		(1)TS
41	3,		1	ED-3F004-31,G22BA	J3F010BE-1	UNIT 01	J3F010BA-1	40-014-313
42	10			ED-3F004-31,G22BB	DSU MTG 0	UNIT 02	DSA MTG	40-022-313
43				ED-3F004-31,G22BC	"J1" CONN (EQL 16)	UNIT 03		40-030-313
44				ED-3F004-31,G22BD		UNIT 04		40-038-313
45				ED-3F004-31,G22BE		UNIT 05		40-046-313
46				ED-3F004-31,G22BF	J3F010BE-1	UNIT 06		40-074-313
47				ED-3F004-31,G22BG	DSU MTG 1	UNIT 07		40-082-313
48				ED-3F004-31,G22BH	"J1" CONN (EQL 51)	UNIT 08		40-090-313
49				ED-3F004-31,G22BJ		UNIT 09		40-098-313
50				ED-3F004-31,G22BK		UNIT 10		40-106-313
51	8		1	ED-3F004-31,G50BA	J3F010BB-1	(P1) PLUG	J5D003AU-1	(0),(2)TS
52				ED-3F004-31,G49BA	PAIR UNIT CP1 (13-64)	(P1) PLUG	FUSE FILTER UNIT	(0),(2)TS
53	6		1	ED-3F004-31,G51BA	J3F010BG-1	(P8A) PLUG	J3F010BB-1	P4A,P7A,P8A
54				ED-3F004-31,G51BB	AC DIST UNIT 0(EQL 28)		POWER UNIT (EQL 06)	P4B,P7B,P8B
					J3F010BG-1			P3A,P7A,P8A
					AC DIST UNIT 1(EQL 51)			P3B,P7B,P8B

(CONT'D AT RIGHT)

TABLE GG (CONT'D FROM LEFT)								
CONNECTORIZED INTRA-FRAME CABLING								
ITEM	FIG.	DPT.	CABLES PER FIG.	CABLE DESIGNATION	FROM		TO	
					UNIT	TERM	UNIT	TERM
COL	GA	GB	GC	GD	GE	GF	GH	GJ
55	H4	U	1	ED-3F004-31,G19BL	J3F010BF-1	300	J3F010BE-1	UNIT 01
56				ED-3F004-31,G19BM	CSU MTG 0	303	DSU MTG 0	UNIT 02
57				ED-3F004-31,G19BN	"P1" TERM	306	(CT8000	UNIT 03
58				ED-3F004-31,G19BO	BD (EQL 34-P1)	309	ADAPTER CABLE)	UNIT 04
59				ED-3F004-31,G19BP		313		UNIT 05
60				ED-3F004-31,G19BR	J3F010BF-1	300	J3F010BE-1	UNIT 06
61				ED-3F004-31,G19BS	CSU MTG 1	303	DSU MTG 1	UNIT 07
62				ED-3F004-31,G19BT	"P1" TERM	306	(CT8000	UNIT 08
63				ED-3F004-31,G19BU	BD (EQL 46-P1)	309	ADAPTER CABLE)	UNIT 09
64				ED-3F004-31,G19BV		313		UNIT 10
65	11			ED-3F004-31,G75BA	J3F010BE-1	UNIT 01	J3F010BA-1	40-014-313
66				ED-3F004-31,G75BB	DSU MTG 0	UNIT 02	DSA MTG	40-022-313
67				ED-3F004-31,G75BC	"J1" CONN (EQL 16)	UNIT 03		40-030-313
68				ED-3F004-31,G75BD		UNIT 04		40-038-313
69				ED-3F004-31,G75BE		UNIT 05		40-046-313
70				ED-3F004-31,G75BF	J3F010BE-1	UNIT 06		40-074-313
71				ED-3F004-31,G75BG	DSU MTG 0	UNIT 07		40-082-313
72				ED-3F004-31,G75BH	"J1" CONN (EQL 51)	UNIT 08		40-090-313
73				ED-3F004-31,G75BJ		UNIT 09		40-098-313
74				ED-3F004-31,G75BK		UNIT 10		40-106-313
75				ED-3F004-31,G75BL			SEE NOTE 66	

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NO. SE TOLL DIGITAL FACILITY ACCESS CIRCUIT		DWG SIZE C2	ISSUE 8
AT&T	T-3F021-11	SHEET A3	

TABLE G - (CONT'D)

ITEM	FIG.		LEADS PER FIG.	CABLES PER UNIT	CODE	FROM	CA	EDPT	TO	CA	EDPT	CABLE SHIELD	REMARKS
	GA	GB					DESIG	LOC		DESIG	LOC		
							GG	GH	GJ	GK	GL	GM	GN
35	HZ	R	4	1	24BH 0	DFA CAB.	HN35 DSA 40-014-106		DIGITAL DATA			3	FORMED PER ED-3F004-31, G104A
36			4				HN36 DSA 40-022-106		SERVICE FACILITY				FORMED PER ED-3F004-31, G104B
37			4				HN37 DSA 40-030-106		OR TO (JDF AS REQ'D				FORMED PER ED-3F004-31, G104C
38			4				HN38 DSA 40-038-106						FORMED PER ED-3F004-31, G104D
39			4				HN39 DSA 40-046-106						FORMED PER ED-3F004-31, G104E
40			4				HN40 DSA 40-074-106						FORMED PER ED-3F004-31, G104F
41			4				HN41 DSA 40-082-106						FORMED PER ED-3F004-31, G104G
42			4				HN42 DSA 40-090-106						FORMED PER ED-3F004-31, G104H
43			4				HN43 DSA 40-098-106						FORMED PER ED-3F004-31, G104J
44			4				HN44 DSA 40-106-106						FORMED PER ED-3F004-31, G104K

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NO. 5E TOLL DIGITAL FACILITY ACCESS CIRCUIT		DWG SIZE	ISSUE
		CZ	9
AT&T	T-3F021-11	SHEET A4	

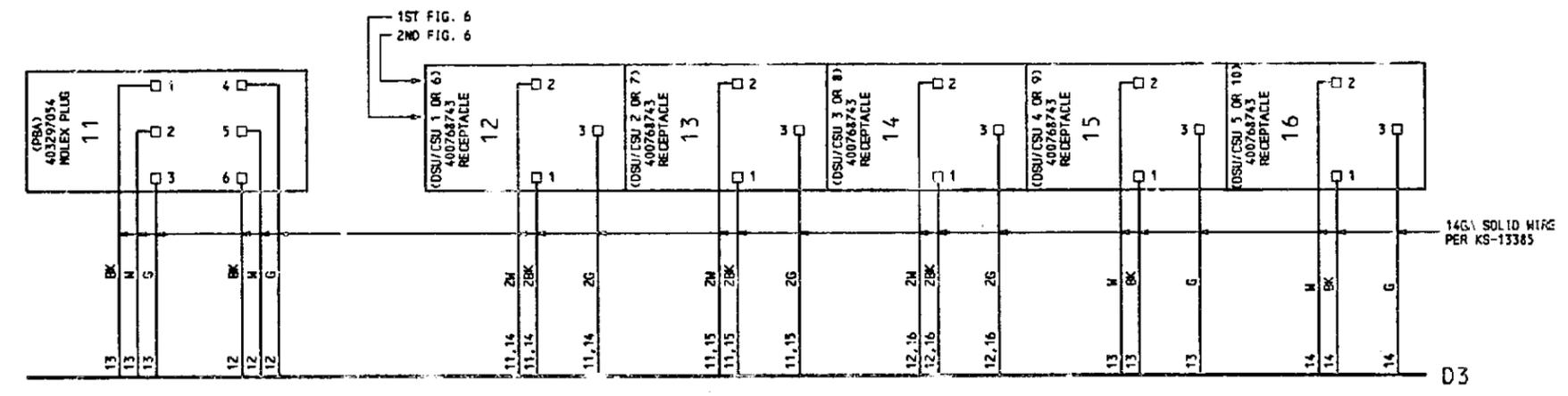
SHOP	
INST	
X	

MANUFACTURING NOTES

B1. D3 - WIRING TO BE 260P COLORED GREEN UNLESS OTHERWISE SPECIFIED.

PART OF FIG. 6

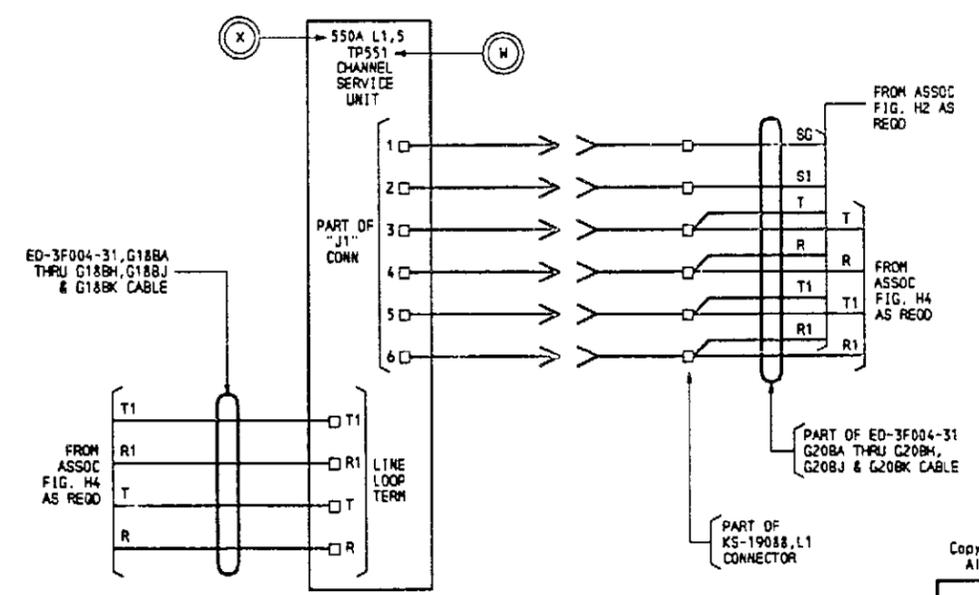
(AC DISTRIBUTION UNIT)



PART OF FIG. 4

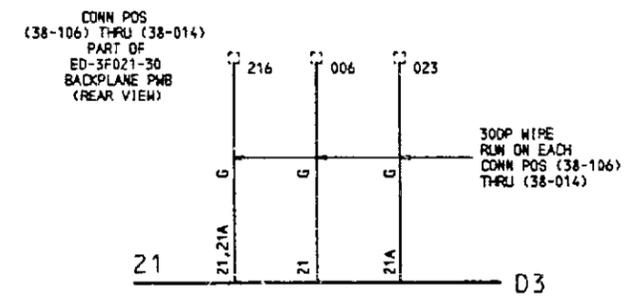
(DA)

(SEE NOTE 62)



PART OF FIG. H2

(DIGITAL SERVICE ADAPTER CKT)



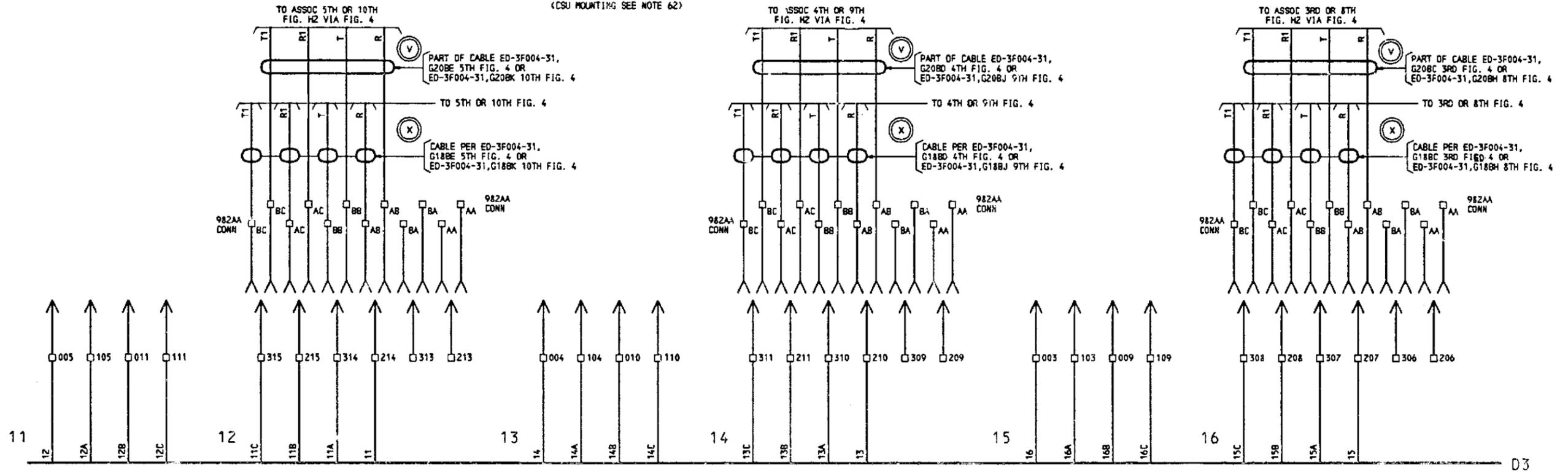
SHEET	SH NO.	B1	B2
INDEX	ISSUE	5	5

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NO. SE TOLL DIGITAL FACILITY ACCESS CIRCUIT	DWG SIZE	ISSUE
	C2	5
AT&T TECHNOLOGIES, INC.	T-3F021-11	SHEET B1

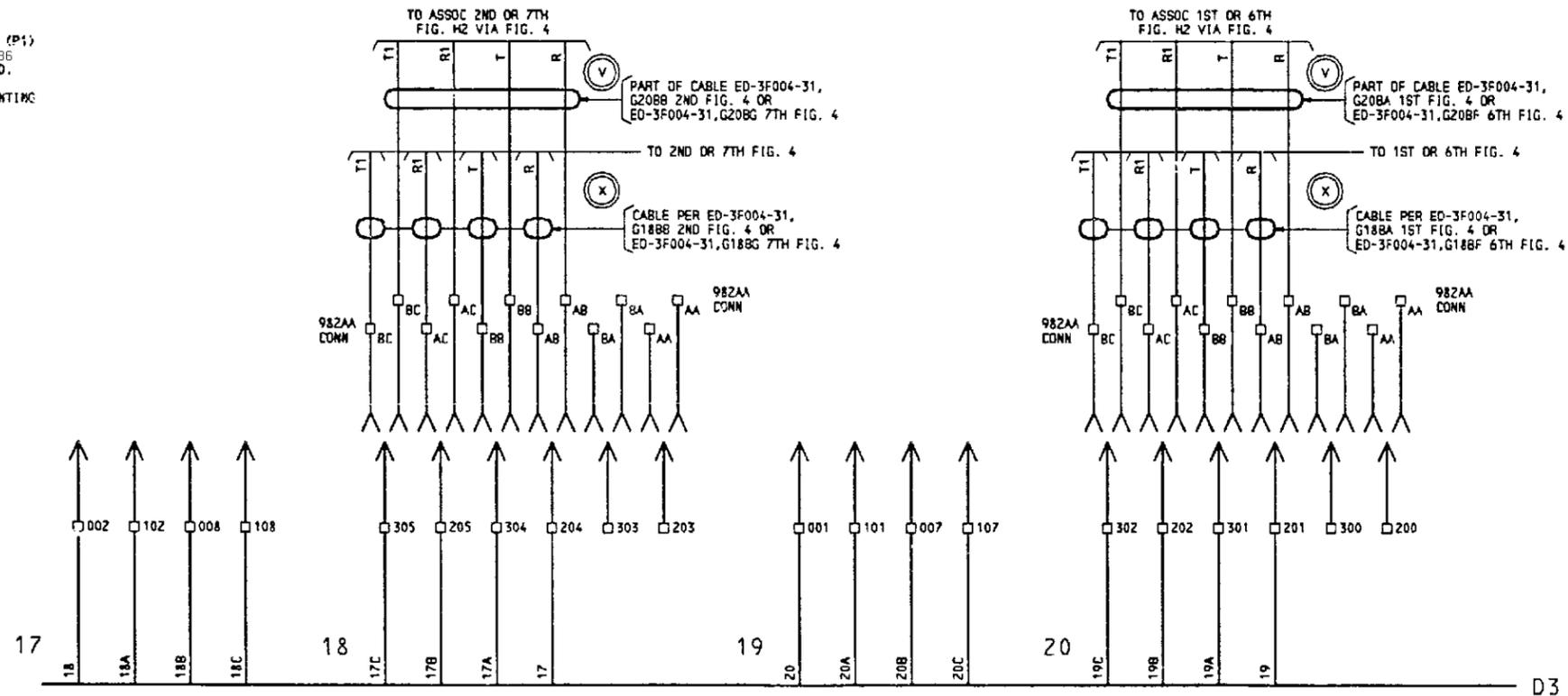
PART OF FIG. H4

(CSU MOUNTING SEE NOTE 62)



D3

PART OF (P1)
843771536
TERM. BD.
ON
CSU MOUNTING



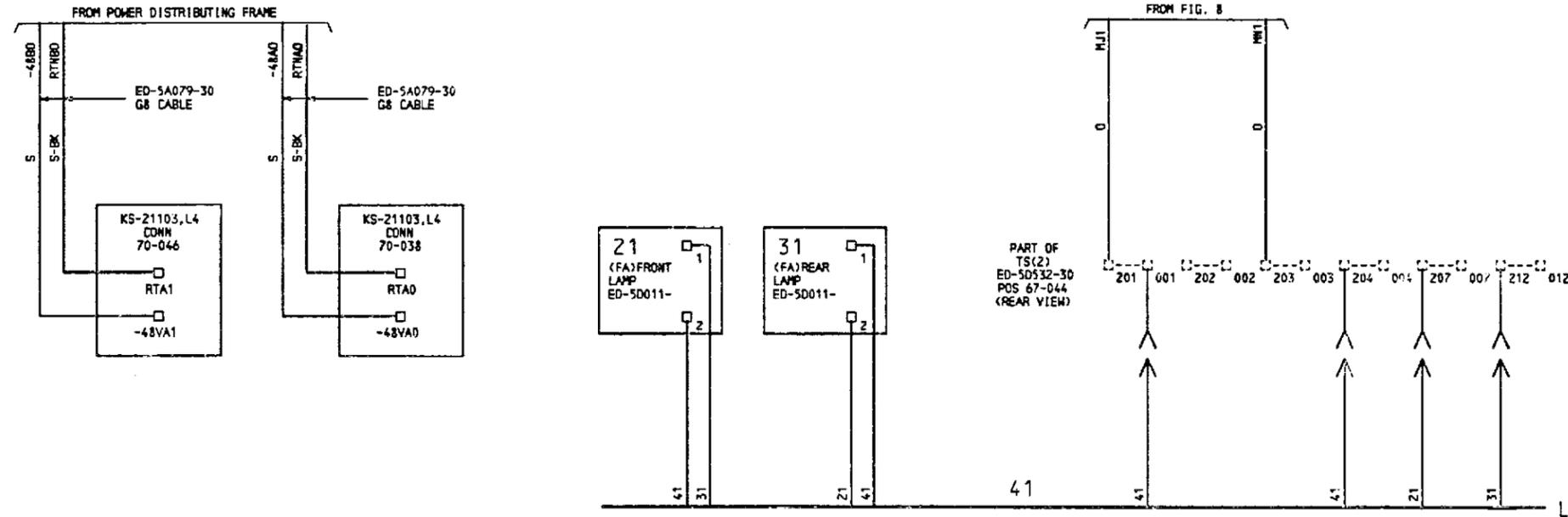
D3

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NO. 5E TOLL DIGITAL FACILITY ACCESS CIRCUIT	DWG SIZE	ISSUE
	□2	5
AT&T TECHNOLOGIES, INC.	T-3F021-11	SHEET 82

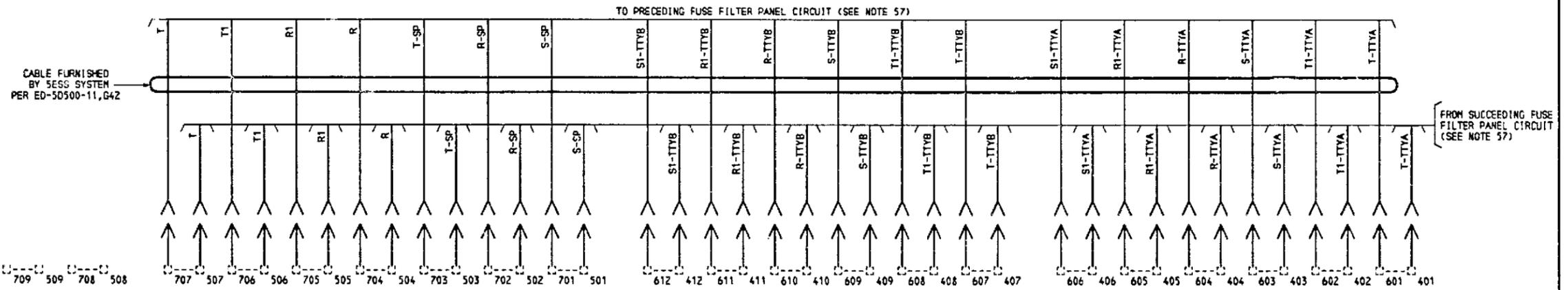
PART OF FIG. 5

(FUSE FILTER PANEL J50003AU-2)



MANUFACTURING NOTES

D1. LW - TO BE 24DP WIRE UNLESS OTHERWISE SPECIFIED, COLOR GREEN UNLESS OTHERWISE SPECIFIED AND TO BE RUN PER LMJ5F0108-1.



PART OF TS(2) ED-50532-30 POS 67-044 (REAR VIEW)

712 512 711 511 710 510 709 509 708 508

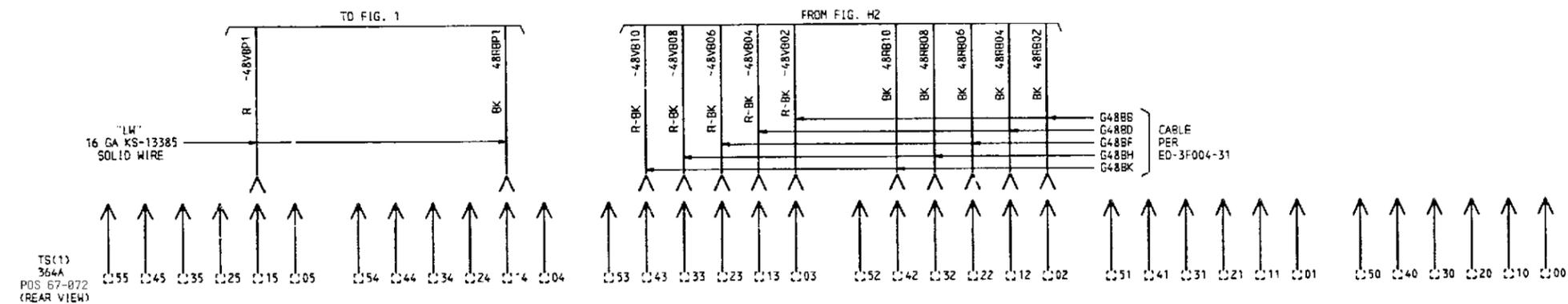
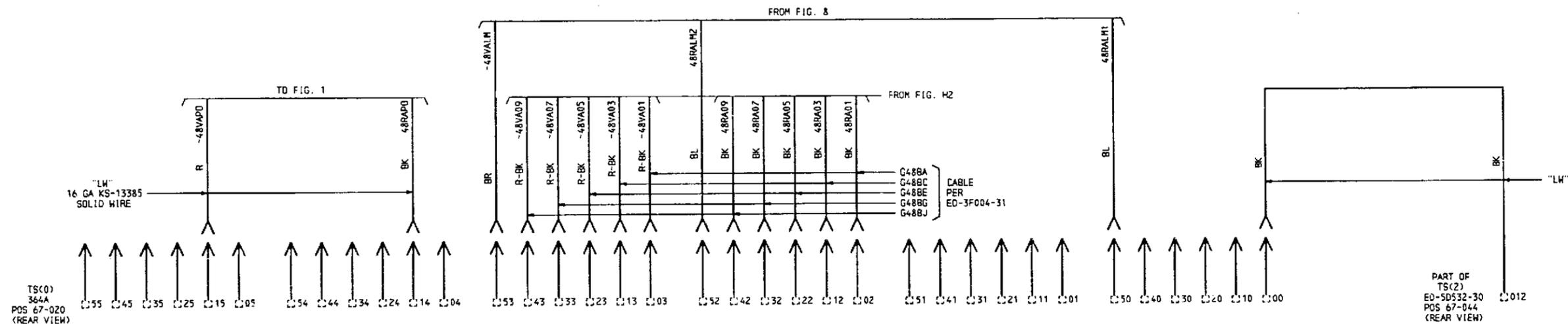
SHEET INDEX	SH NO.	D1	D2	D3	D4	D5	D6	D7	D8	D9
	9	1	8	9	8	9	9	9	9	9
	D10	D11	D12	D13	D14	D15	D16	D17	D18	
	9	9	9	9	9	9	8	9	5	
	D19									
	9									

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NO. SE TOLL DIGITAL FACILITY ACCESS CIRCUIT		DWG SIZE C2	ISSUE 9
AT&T	T-3F021-11	SHEET 01	

PART OF FIG. 5

(FUSE FILTER PANEL J5D003AU-1)



SEE PROPRIETARY NOTICE ON SHEET ONE

NO. 5E TOLL DIGITAL FACILITY ACCESS CIRCUIT		DWG SIZE	ISSUE
		C2	1
AT&T TECHNOLOGIES, INC.		T-3F021-11	SHEET 0#2

FIG. 3(DA)

(500BL1,5 DATA SERVICE UNIT) OR
(TP556A DATA SERVICE UNIT)

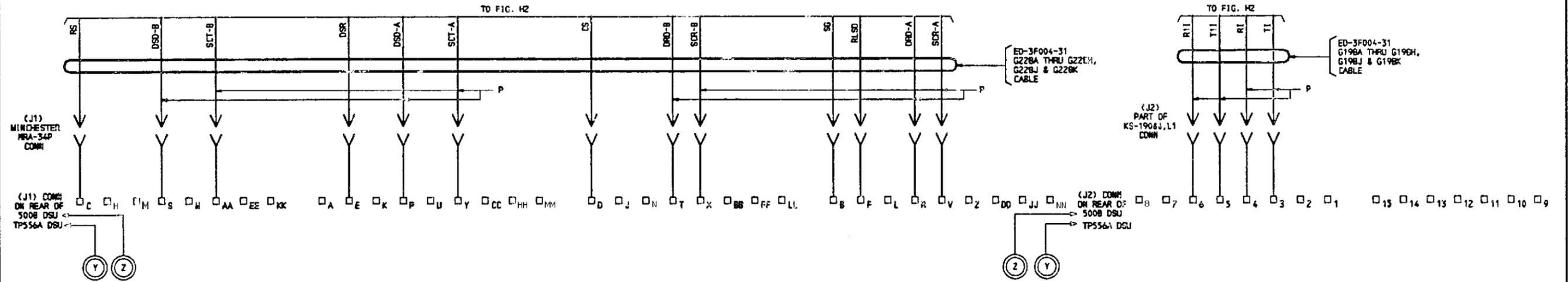


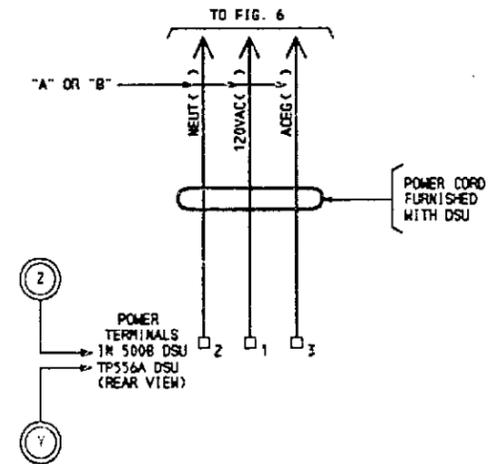
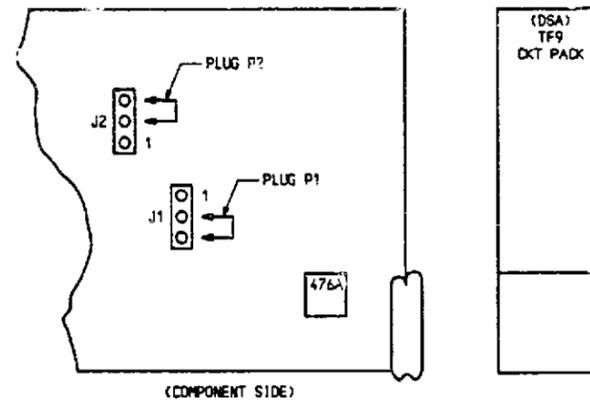
FIG. 9(DA)

(SEE NOTE 58)



FIG. 12

(DIGITAL SERVICE ADAPTER)

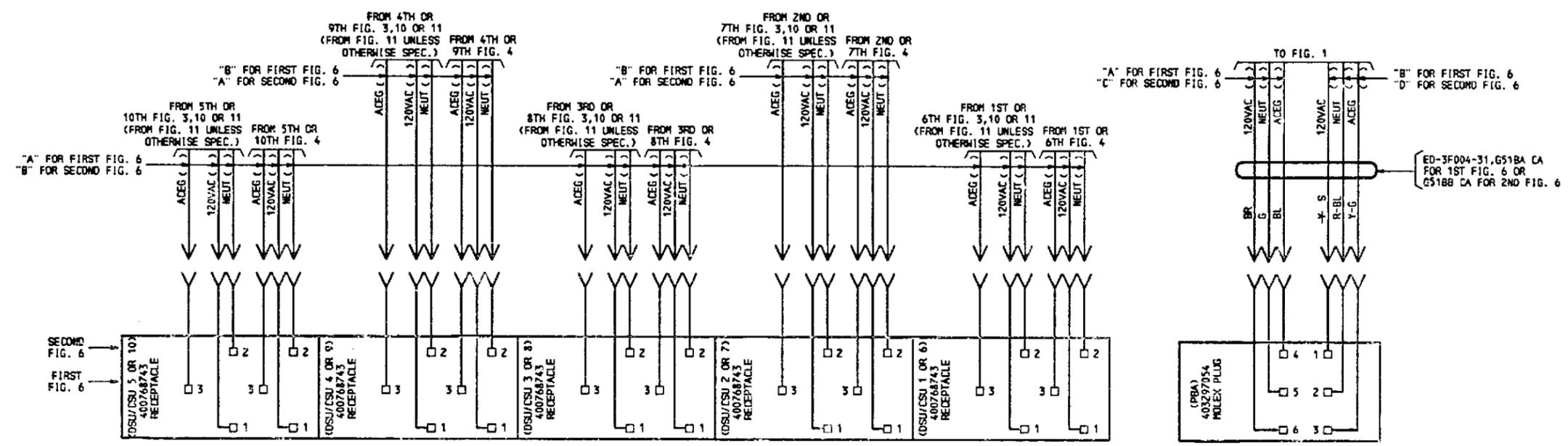


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NO. 5E TOLL DIGITAL FACILITY ACCESS CIRCUIT		DWG SIZE C2	ISSUE 8
AT&T	T-3F021-11	SHEET D3	

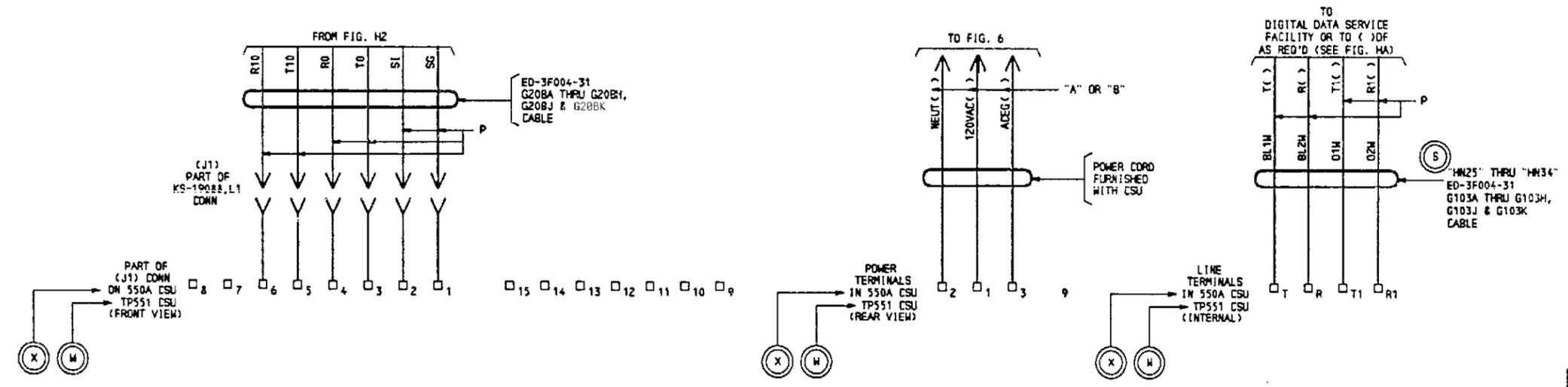
PART OF FIG. 6

(AC DISTRIBUTION UNIT)



PART OF FIG. 4(DA)

(56Kbps CHANNEL SERVICE UNIT)



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NO. SE TOLL DIGITAL FACILITY ACCESS CIRCUIT	DWG SIZE	ISSUE
	C2	9
AT&T	T-3F021-11	SHEET D4

PART OF FIG. H4

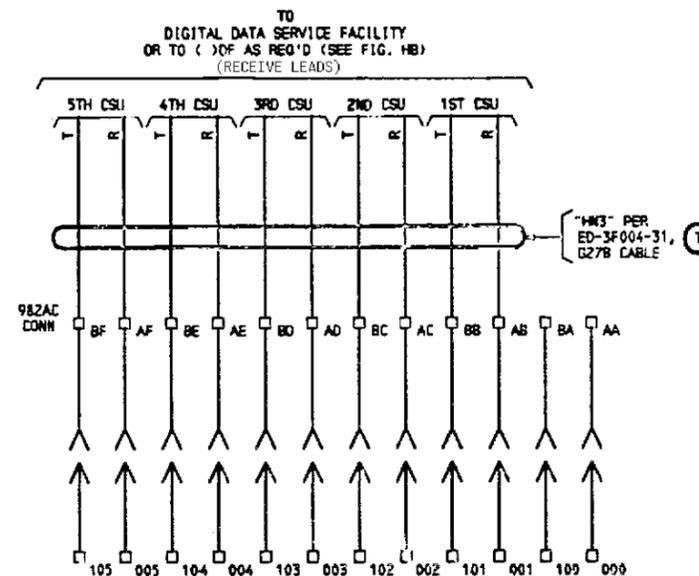
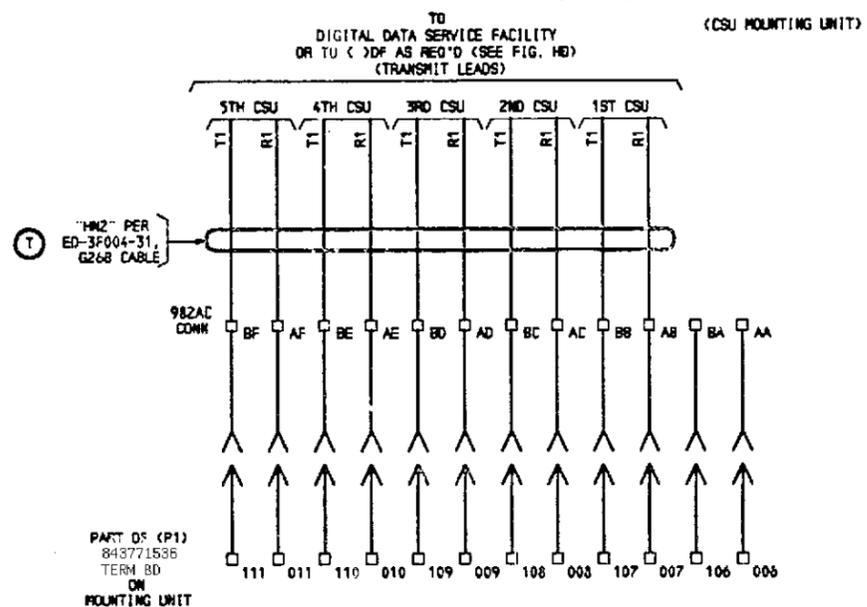


FIG. 2(DA)

(DIGITAL SERVICE ADAPTER)



FIG. HA

(DISTRIBUTING FRAME)

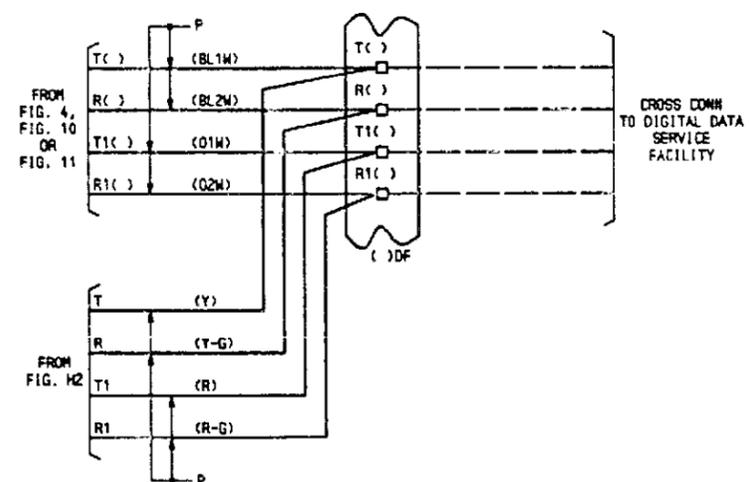
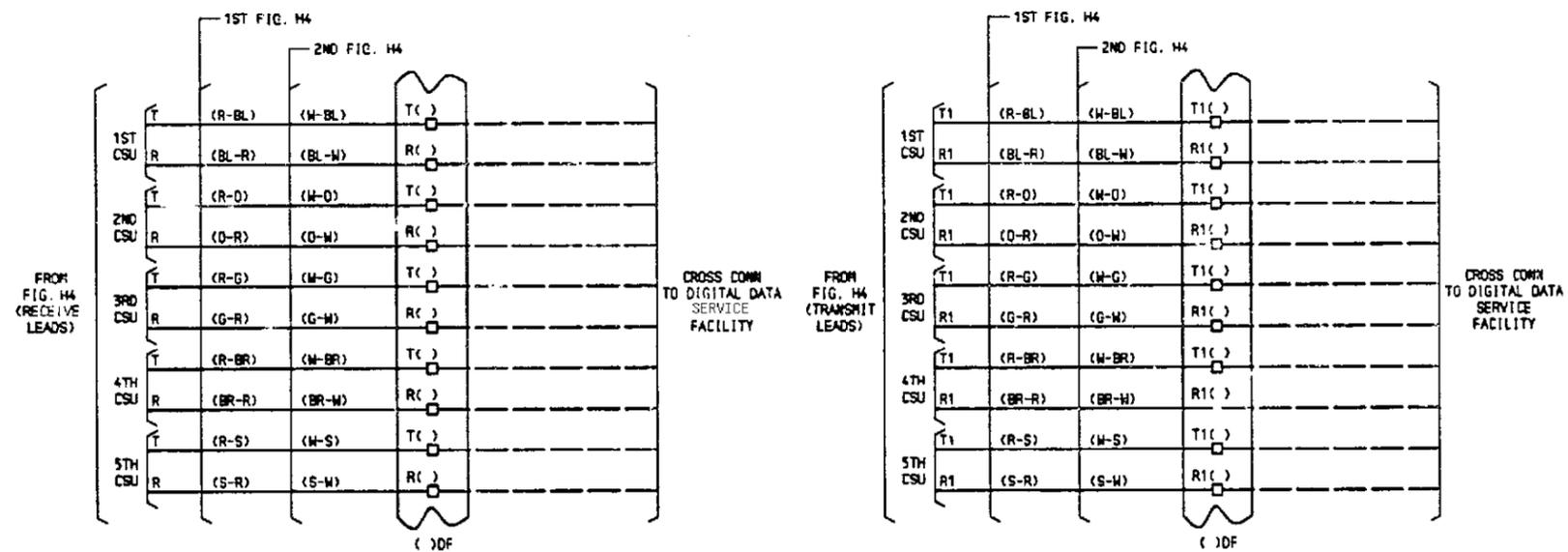


FIG. HB

(DISTRIBUTING FRAME)

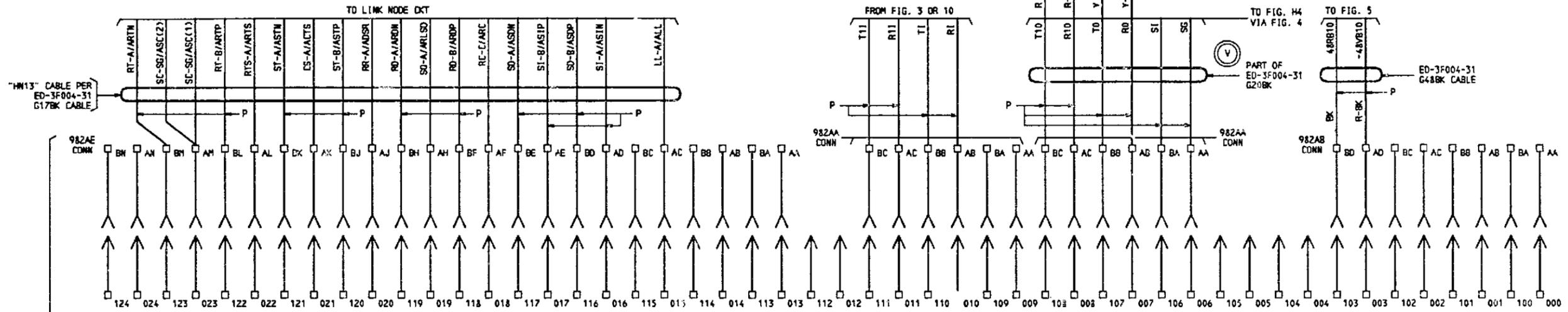


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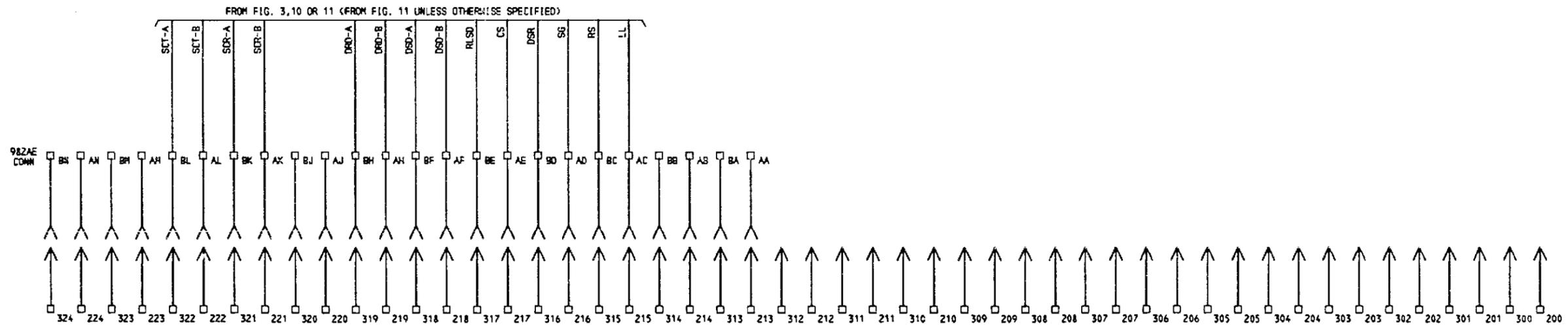
NO. 5E TOLL DIGITAL FACILITY ACCESS CIRCUIT	DWG SIZE	ISSUE
	C2	8
AT&T	T-3F021-11	SHEET 05

PART OF FIG. H2

(DIGITAL SERVICE ADAPTER DKT)



(40-106)
PART OF
ED-3F021-30
BACKPLANE PWG
(REAR VIEW)

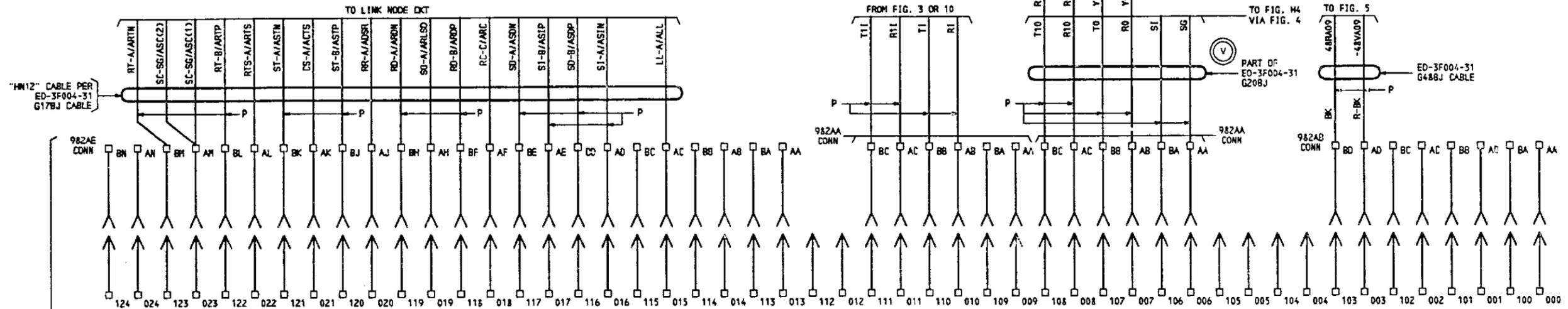


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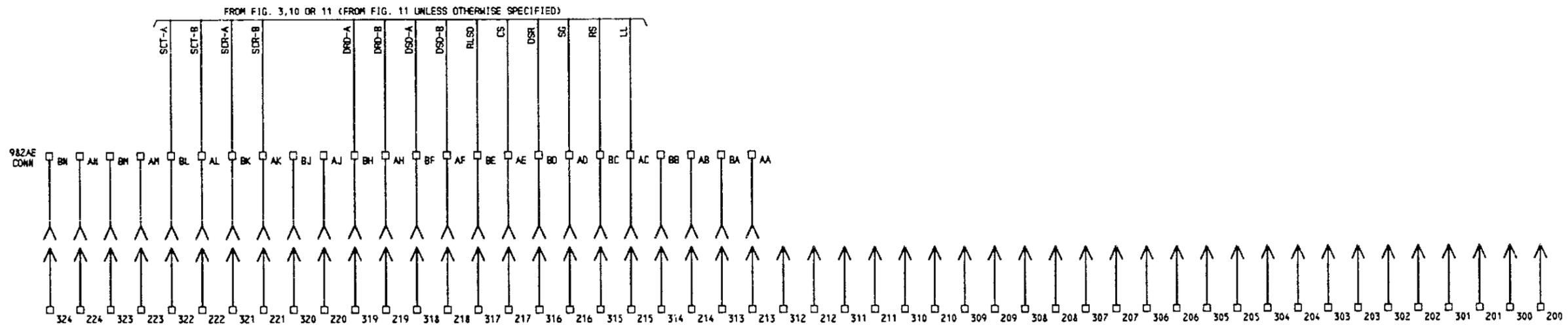
NO. 5E TOLL DIGITAL FACILITY ACCESS CIRCUIT		DWG SIZE	ISSUE
		C2	9
AT&T		T-3F021-11	
		SHEET 06	

PART OF FIG. H2

(DIGITAL SERVICE ADAPTER DKT)



(40-098)
PART OF
ED-3F021-30
BACKPLANE PWB
(REAR VIEW)



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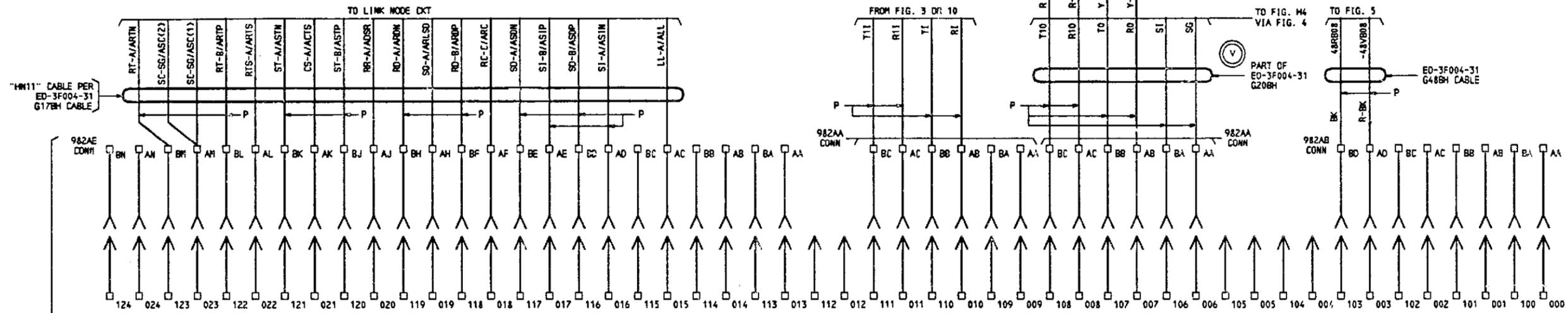
NO. 5E TOLL DIGITAL FACILITY ACCESS CIRCUIT		DWG SIZE C2	ISSUE 9
AT&T	T-3F021-11	SHEET 07	

K7

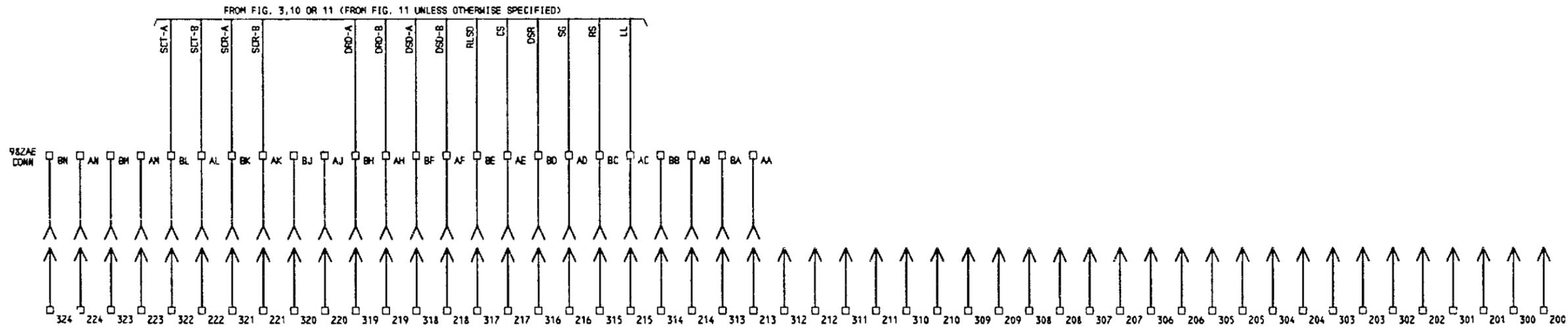
PRINTED IN U.S.A.

PART OF FIG. H2

(DIGITAL SERVICE ADAPTER CKT)



(40-090)
PART OF
ED-3F021-30
BACKPLANE P/B
(REAR VIEW)



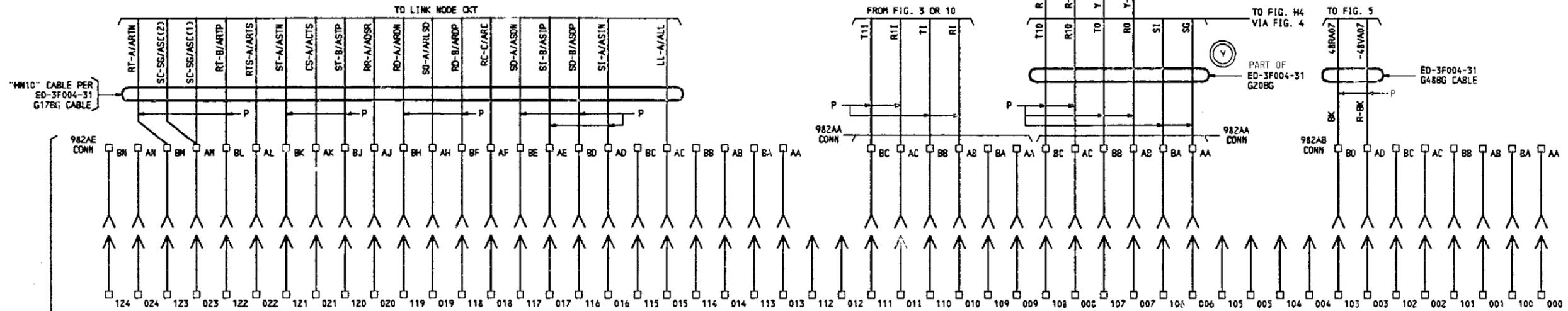
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NO. SE TOLL DIGITAL FACILITY ACCESS CIRCUIT		OMG SIZE	ISSUE
		C2	9
AT&T	T-3F021-11	SHEET 08	

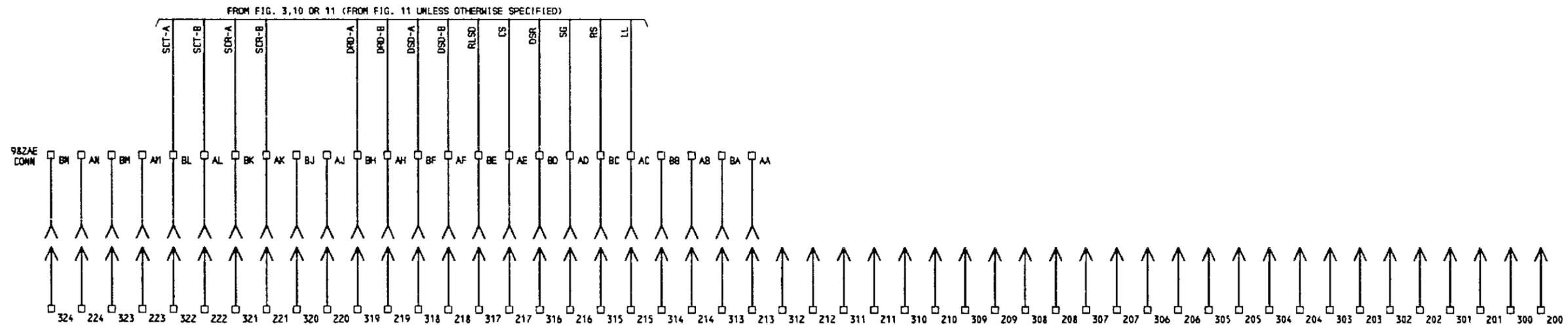
PRINTED IN U.S.A.

PART OF FIG. H2

(DIGITAL SERVICE ADAPTER DKT)



(40-082)
PART OF
ED-3F021-30
BACKPLANE PWB
(REAR VIEW)

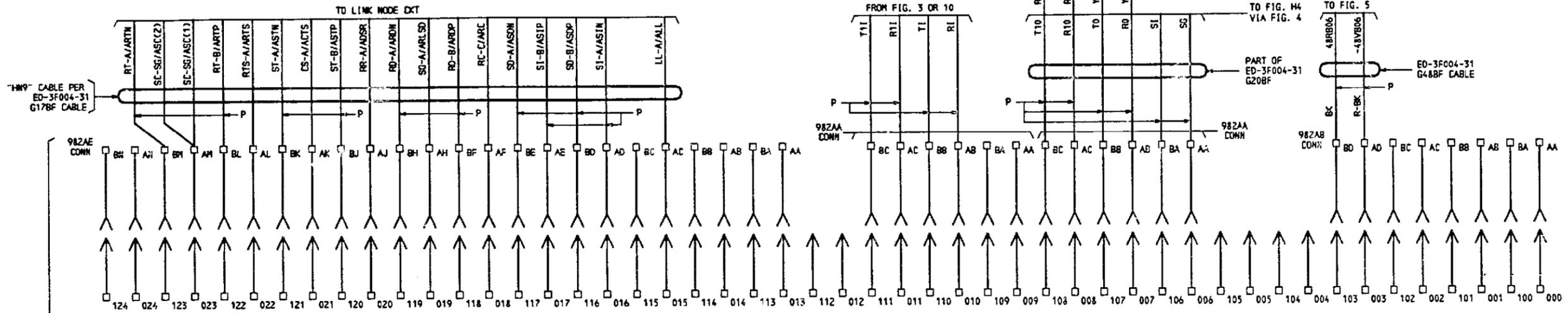


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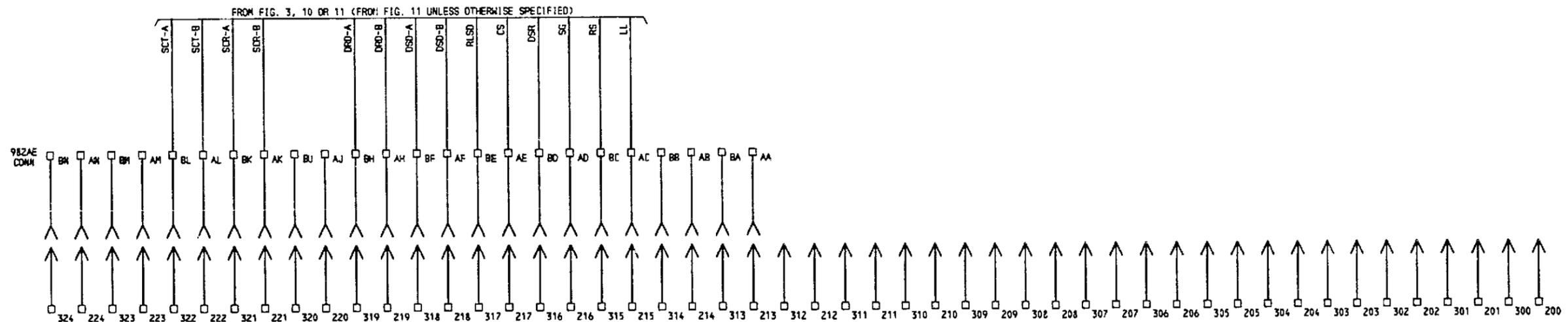
NO. 5E TOLL DIGITAL FACILITY ACCESS CIRCUIT	DWG SIZE	ISSUE
	C2	9
AT&T	T-3F021-11	SHEET 09

PART OF FIG. H2

(DIGITAL SERVICE ADAPTER EXT)



(40-074)
PART OF
ED-3F021-30
BACKPLANE PWB
(REAR VIEW)

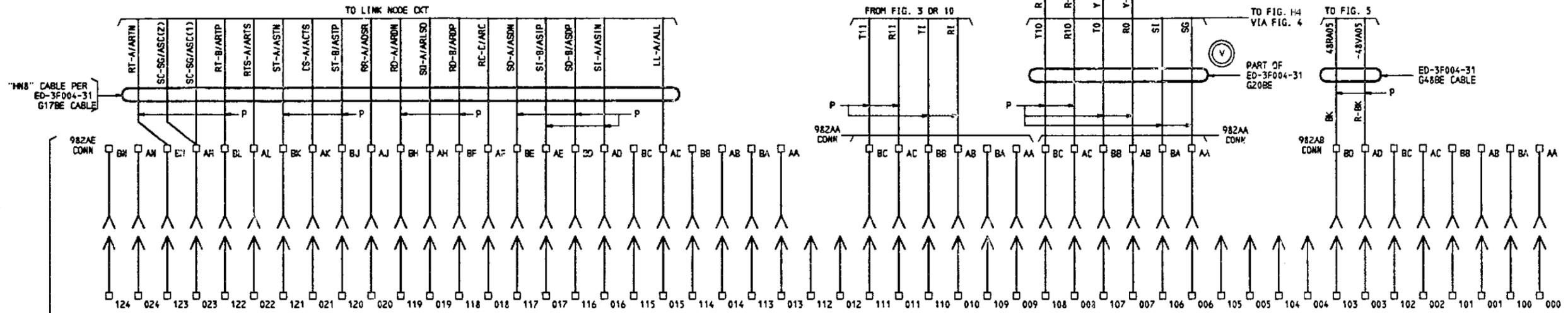


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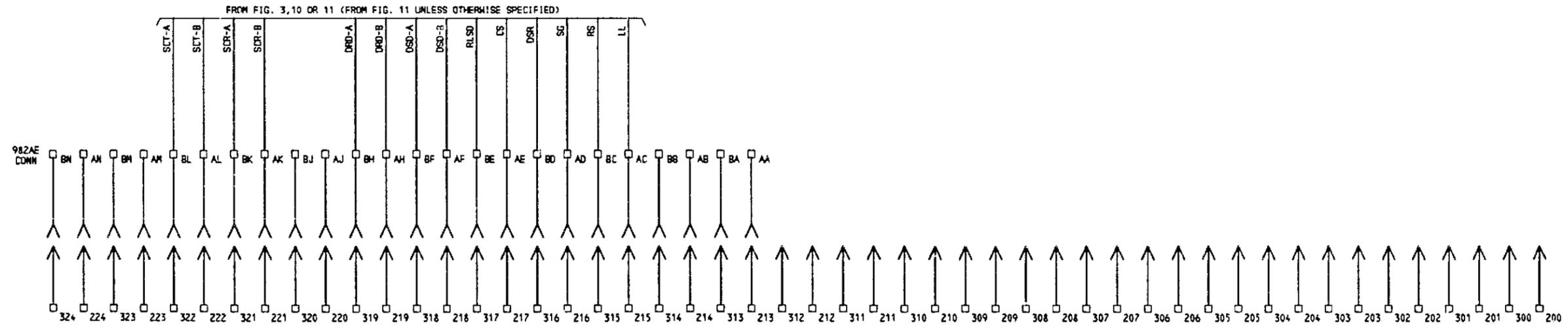
NO. 5E TOLL DIGITAL FACILITY ACCESS CIRCUIT		DWG SIZE C2	ISSUE 9
AT&T	T-3F021-11	SHEET D10	

PART OF FIG. H2

(DIGITAL SERVICE ADAPTER CKT)



(40-046)
PART OF
ED-3F021-30
BACKPLANE PWB
(REAR VIEW)

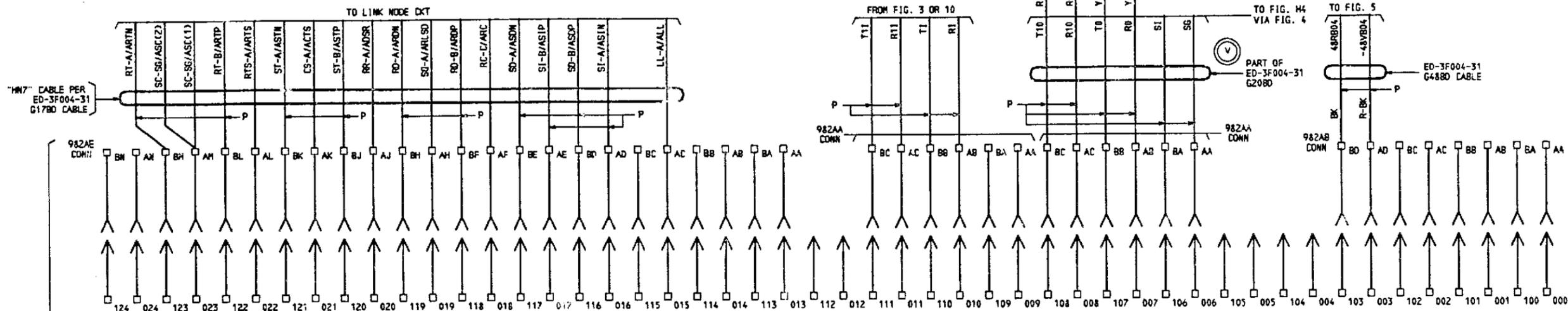


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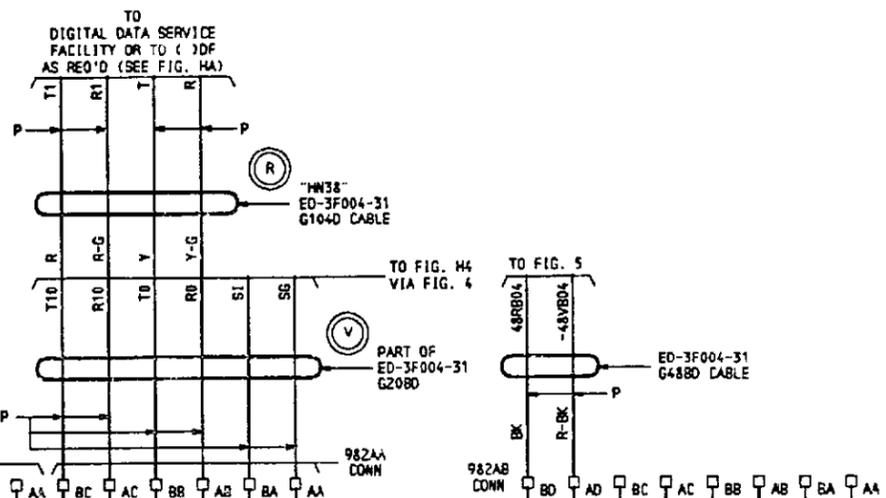
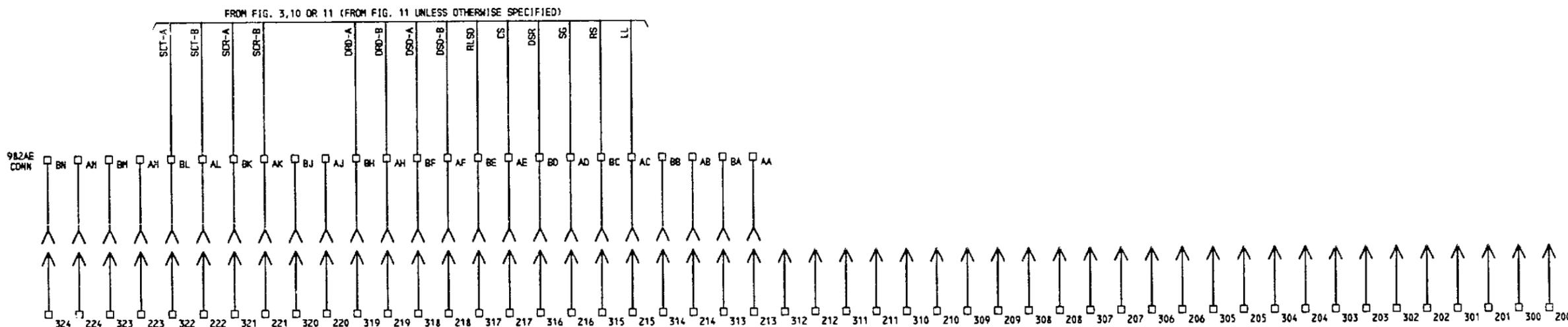
NO. SE TOLL DIGITAL FACILITY ACCESS CIRCUIT	DWG SIZE	ISSUE
	C2	9
AT&T	T-3F021-11	SHEET D11

PART OF FIG. H2

(DIGITAL SERVICE ADAPTER DXT)



(40-033)
PART OF
ED-3F021-30
BACKPLANE PWB
(REAR VIEW)

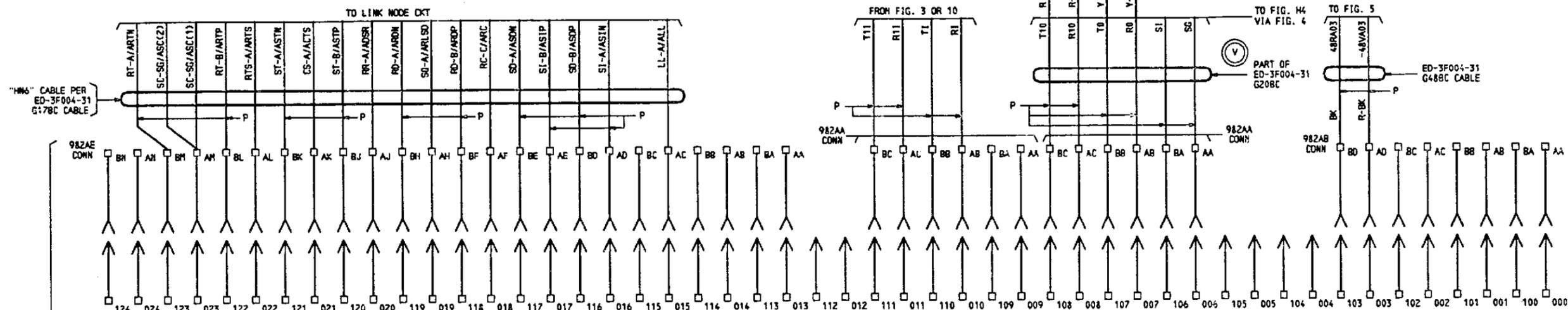


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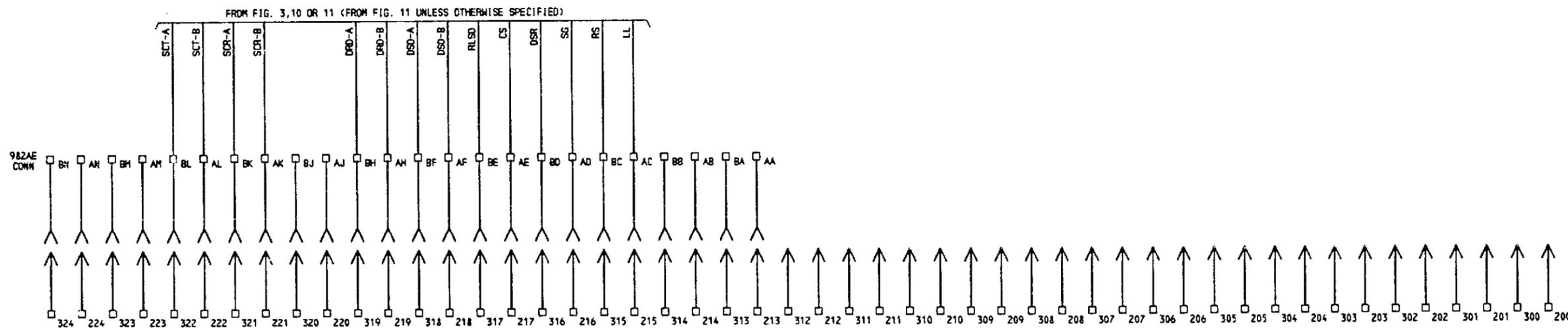
NO. SE TOLL DIGITAL FACILITY ACCESS CIRCUIT	DWG SIZE	ISSUE
	C2	9
AT&T	T-3F021-11	SHEET 012

PART OF FIG. H2

(DIGITAL SERVICE ADAPTER DKT)



(40-030)
PART OF
ED-3F021-30
BACKPLANE PWB
(REAR VIEW)

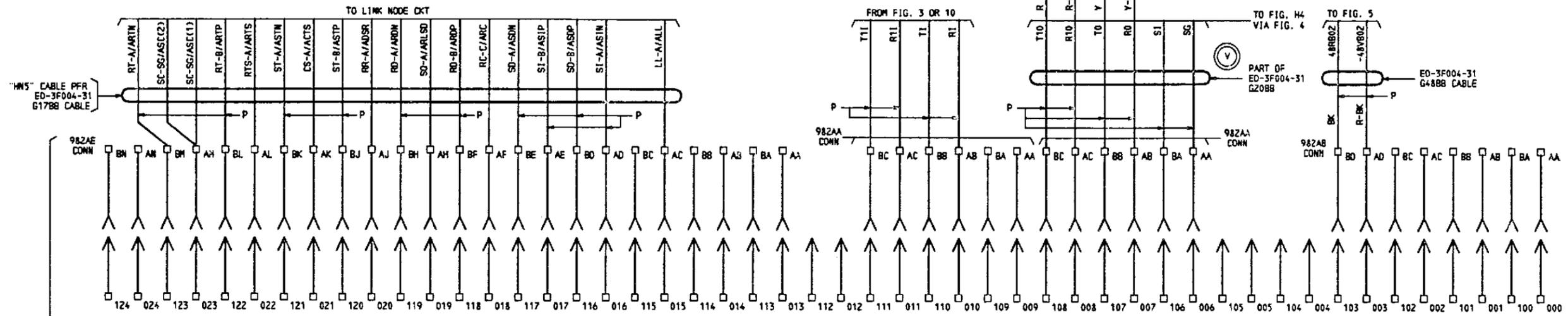


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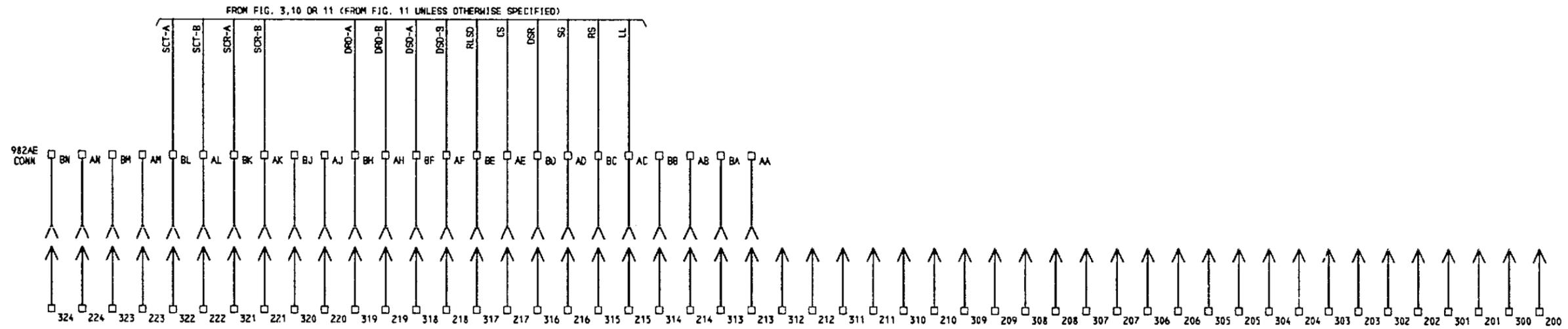
NO. 5E TOLL DIGITAL FACILITY ACCESS CIRCUIT		DWG SIZE	ISSUE
		C2	9
AT&T		T-3F021-11	SHEET D13

PART OF FIG. H2

(DIGITAL SERVICE ADAPTER DKT)



(40-022)
PART OF
ED-3F021-30
BACKPLANE PWB
(REAR VIEW)



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NO. SE TOLL DIGITAL FACILITY ACCESS CIRCUIT		DWG SIZE C2	ISSUE 9
AT&T	T-3F021-11	SHEET 014	

FIG. 1
(POWER UNIT)

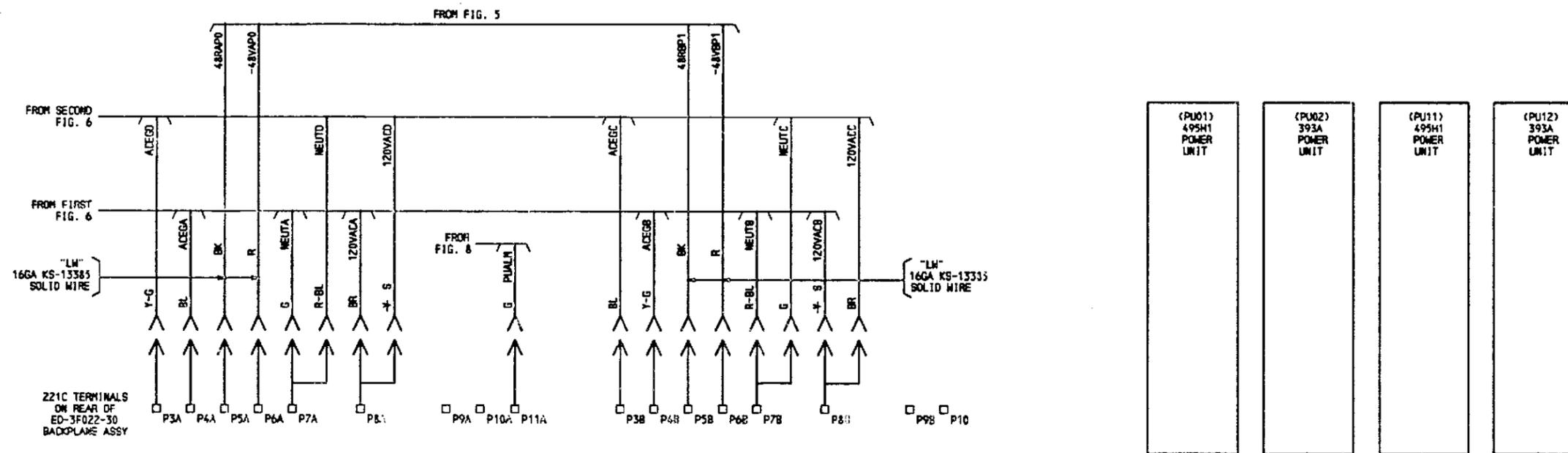
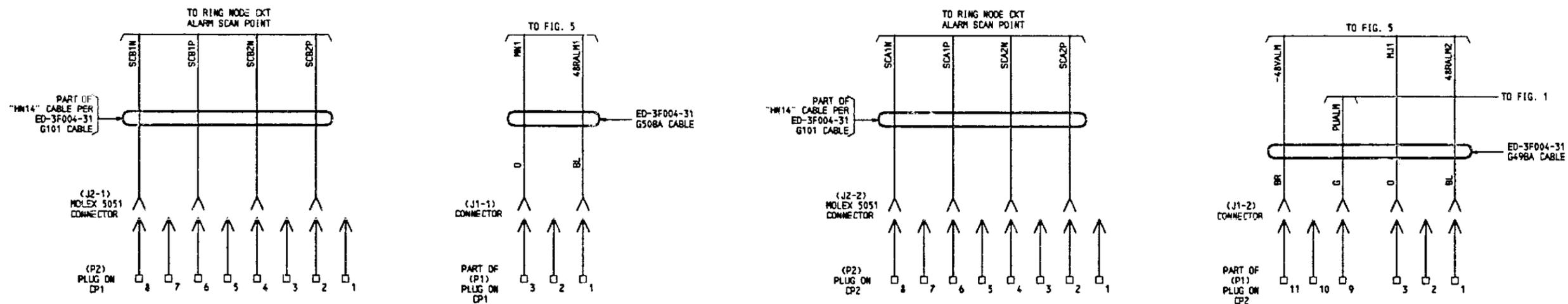


FIG. 8
(SCAN ALM DXT)

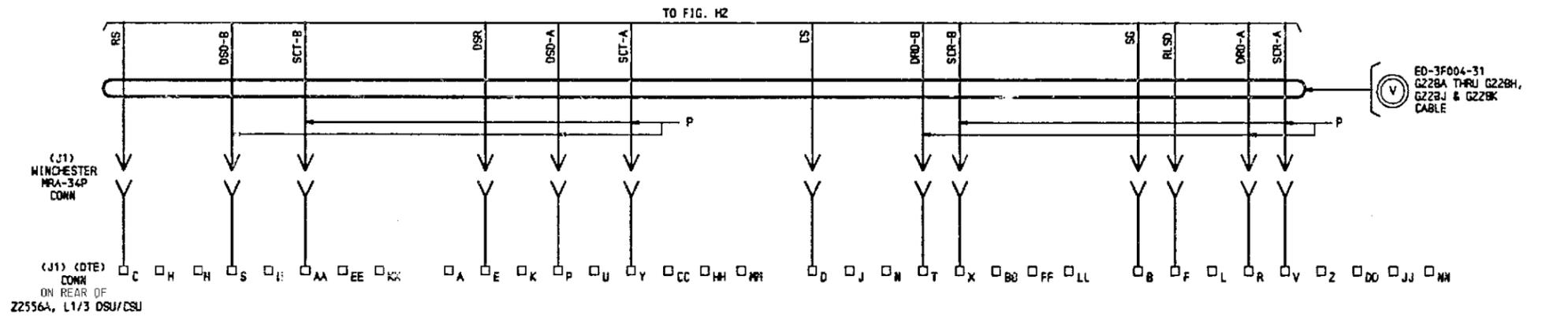


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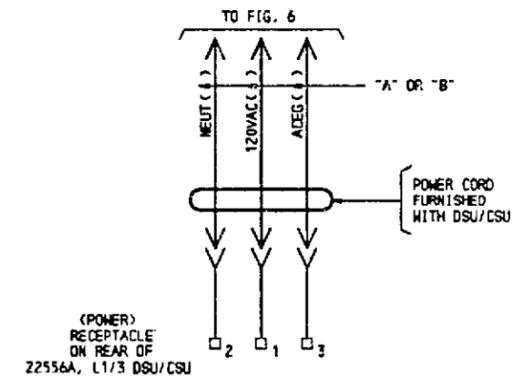
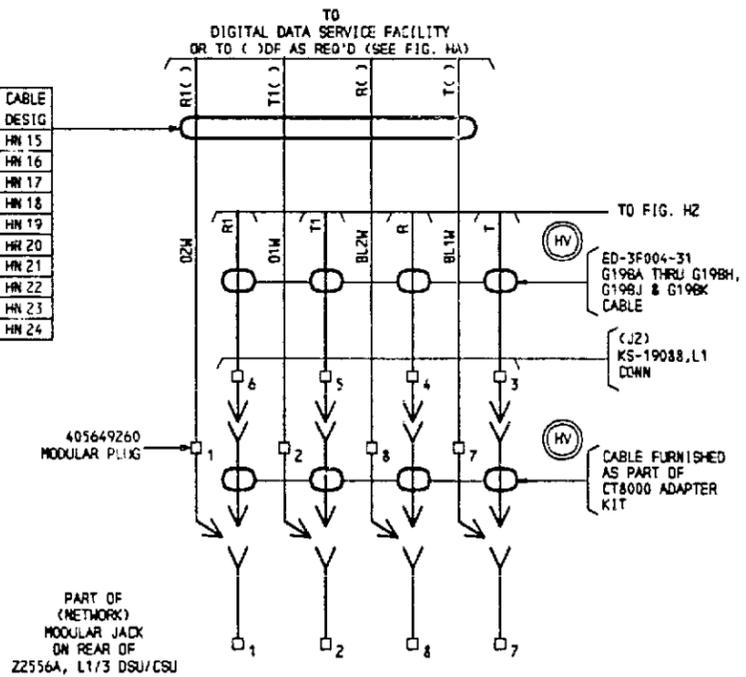
NO. 5E TOLL DIGITAL FACILITY ACCESS CIRCUIT	DWG SIZE	ISSUE
	02	8
AT&T	T-3F021-11	SHEET 016

FIG. 10(DA)

(22556A, L1/3 DSU/CSU)



DPT	FIG. 10 REQ'D IN		CABLE PER ED-3F004-31	CABLE DESIG
	UNIT	DKT		
R	DSU MTG 0	01	G102 A	HN 15
		02	G102 B	HN 16
		03	G102 C	HN 17
		04	G102 D	HN 18
		05	G102 E	HN 19
	DSU MTG 1	06	G102 F	HN 20
		07	G102 G	HN 21
		08	G102 H	HN 22
		09	G102 J	HN 23
		10	G102 K	HN 24

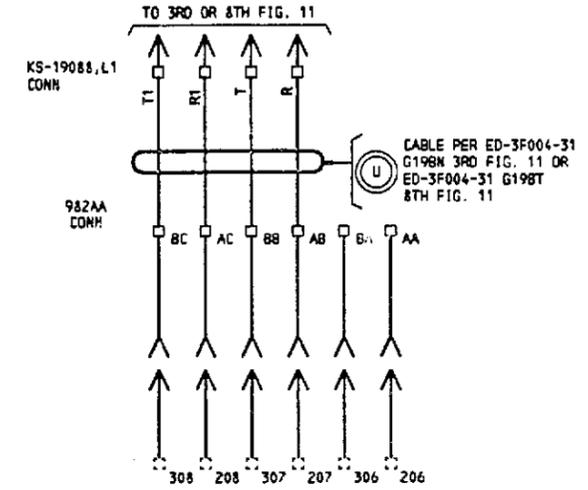
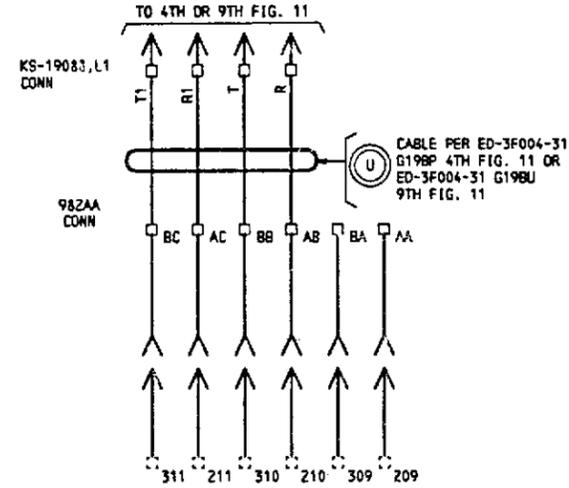
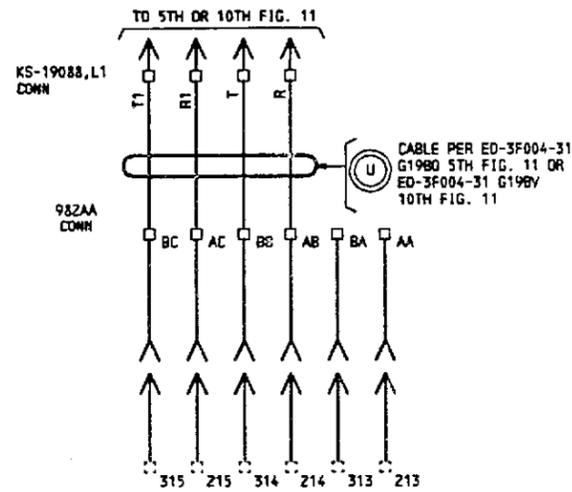


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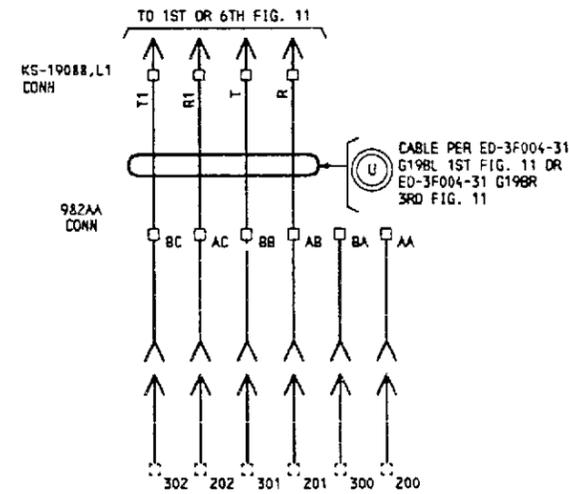
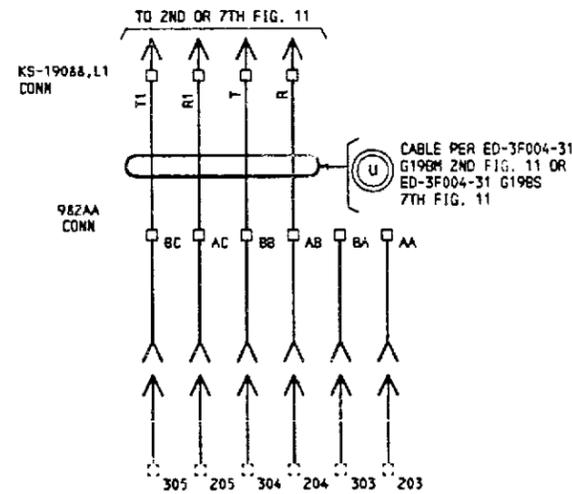
NO. 5E TOLL DIGITAL FACILITY ACCESS CIRCUIT		DWG SIZE	ISSUE
		C2	9
AT&T	T-3F021-11	SHEET 017	

PART OF FIG. H4

(DSU MOUNTING)



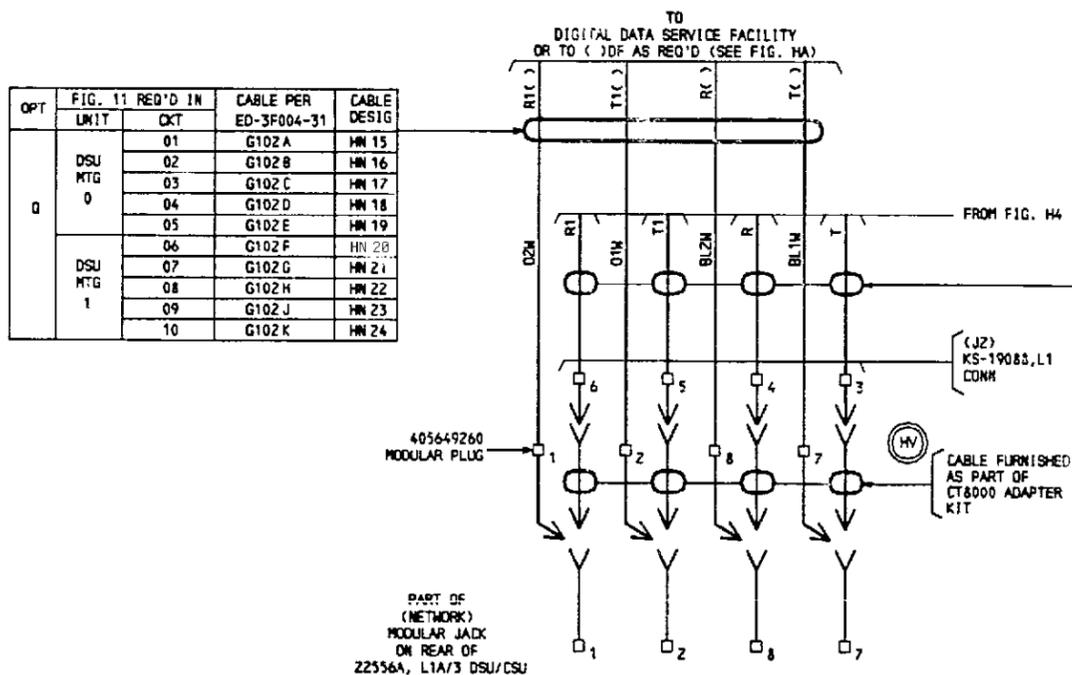
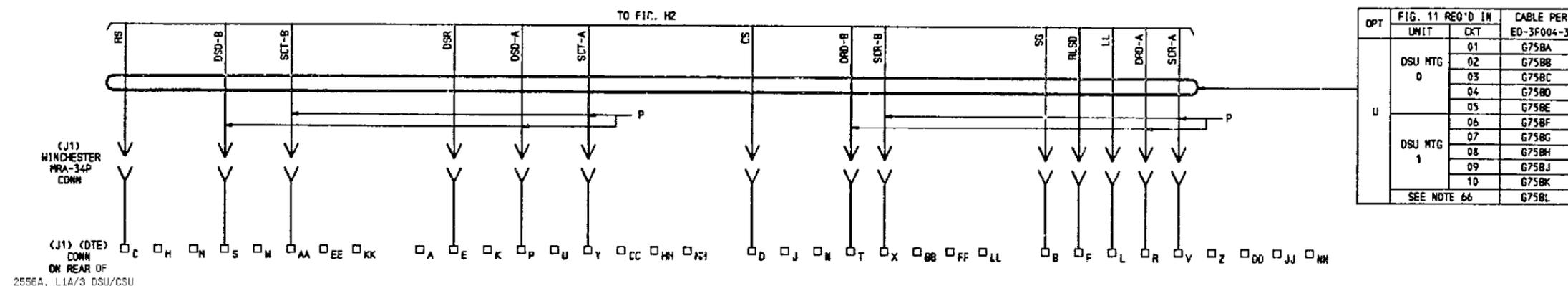
PART OF (P1)
84371536
TERM BD ON
DSU MOUNTING
(REAR VIEW)



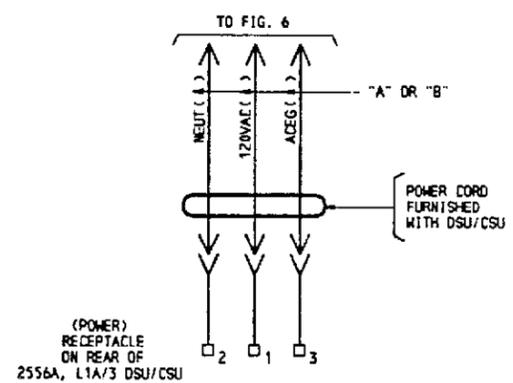
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NO. 5E TOLL DIGITAL FACILITY ACCESS CIRCUIT	DWG SIZE	ISSUE
	2	5
AT&T TECHNOLOGIES, INC.	T-3F021-11	SHEET 018

FIG. 11
(2556A, L1A/3 DSU/CSU)



UNIT	CKT	CABLE PER ED-3F004-31
DSU MTG 0	01	G198L
	02	G198M
	03	G198N
	04	G198P
	05	G198Q
DSU MTG 1	06	G198R
	07	G198S
	08	G198T
	09	G198U
	10	G198V



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NO. SE TOLL DIGITAL FACILITY ACCESS CIRCUIT	DWG SIZE	ISSUE
	C2	9
AT&T	T-3F021-11	SHEET 019