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APP OR FIG	RATED ON ISSUE	REF NOTES	LOCATION

DWG ISS	CD ISS	DATE ISSD	DRN	APP
1	1	1-8-92		
2M	1	1-22-92		
3M	1	3-30-92		

SUPPORTING INFORMATION		SHEET INDEX NOTES
CATEGORY	NO.	
EQUIPMENT DRAWING ESA APPLICATION SOFTWARE SITE PREPARATION GUIDE	ED-50729-01 JSD0338-L1 533-042-103	<ol style="list-style-type: none"> <li>ONLY THE LATEST ISSUE, OR ISSUES IF CONCURRENT, ARE SHOWN IN THE INDEX.</li> <li>FOR REISSUES, A CHANGED OR NEW SHEET IS ASSIGNED THE SAME ISSUE NUMBER AS SHEET 1.</li> <li>THE ISSUE NUMBER OF SHEET 1 IS RECOGNIZED AS THE ISSUE NUMBER OF THE WHOLE DRAWING.</li> </ol>

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BT13

SESS<sup>®</sup> SWITCHING EQUIPMENT  
ENHANCED 911  
SERVICE ADJUNCT  
(ESA)  
CIRCUIT

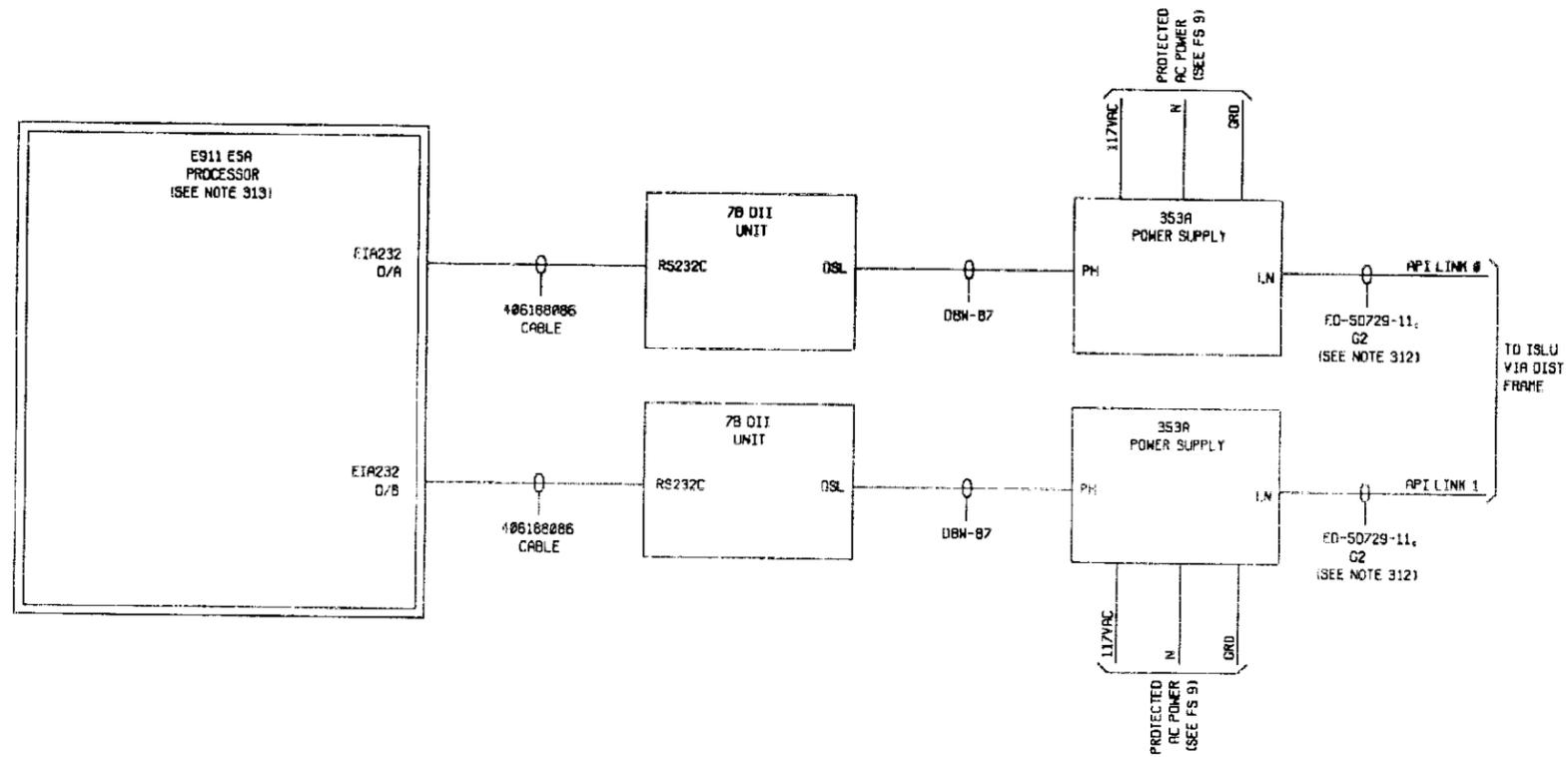
DWG SIZE C2	ISSUE 3M
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# FS 1

API LINK CONFIGURATION  
TYPICAL ARRANGEMENT FOR INTERFACING  
TO THE E911 ESA PROCESSOR



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C2	3M

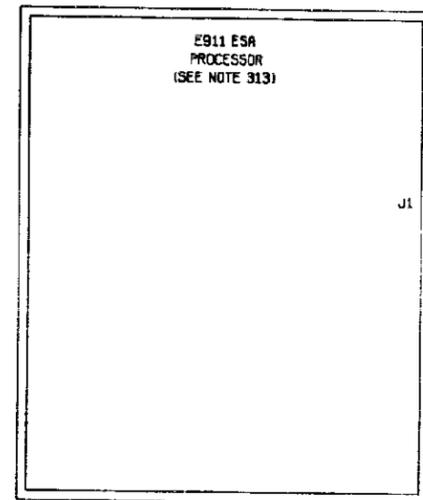
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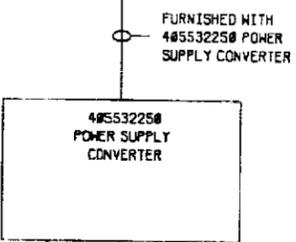
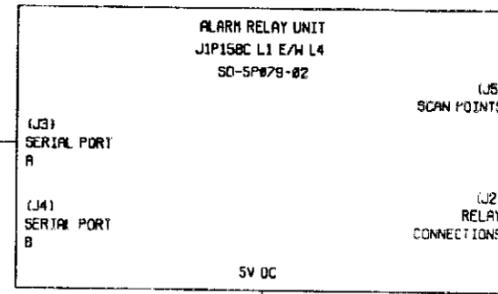


# FS 2

ESA TO ALARM RELAY UNIT  
TYPICAL ARRANGEMENT FOR INTERFACING  
TO THE E911 PROCESSOR

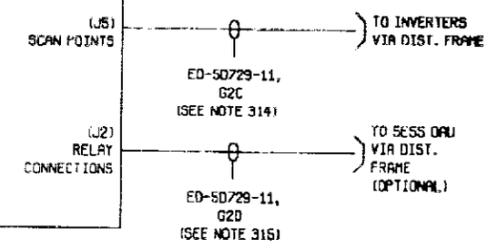


J1  
406180358  
MODIFIED  
(SEE NOTE 310)



117VAC  
N  
GND  
PROTECTED  
AC POWER  
(SEE FS 9)

FURNISHED WITH  
405532250 POWER  
SUPPLY CONVERTER



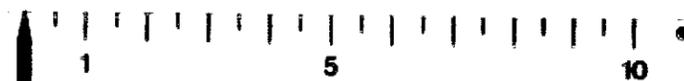
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ENHANCED 911  
SERVICE ADJUNCT  
(ESA)

DWG SIZE	ISSUE
C2	3M
SHEET 82	

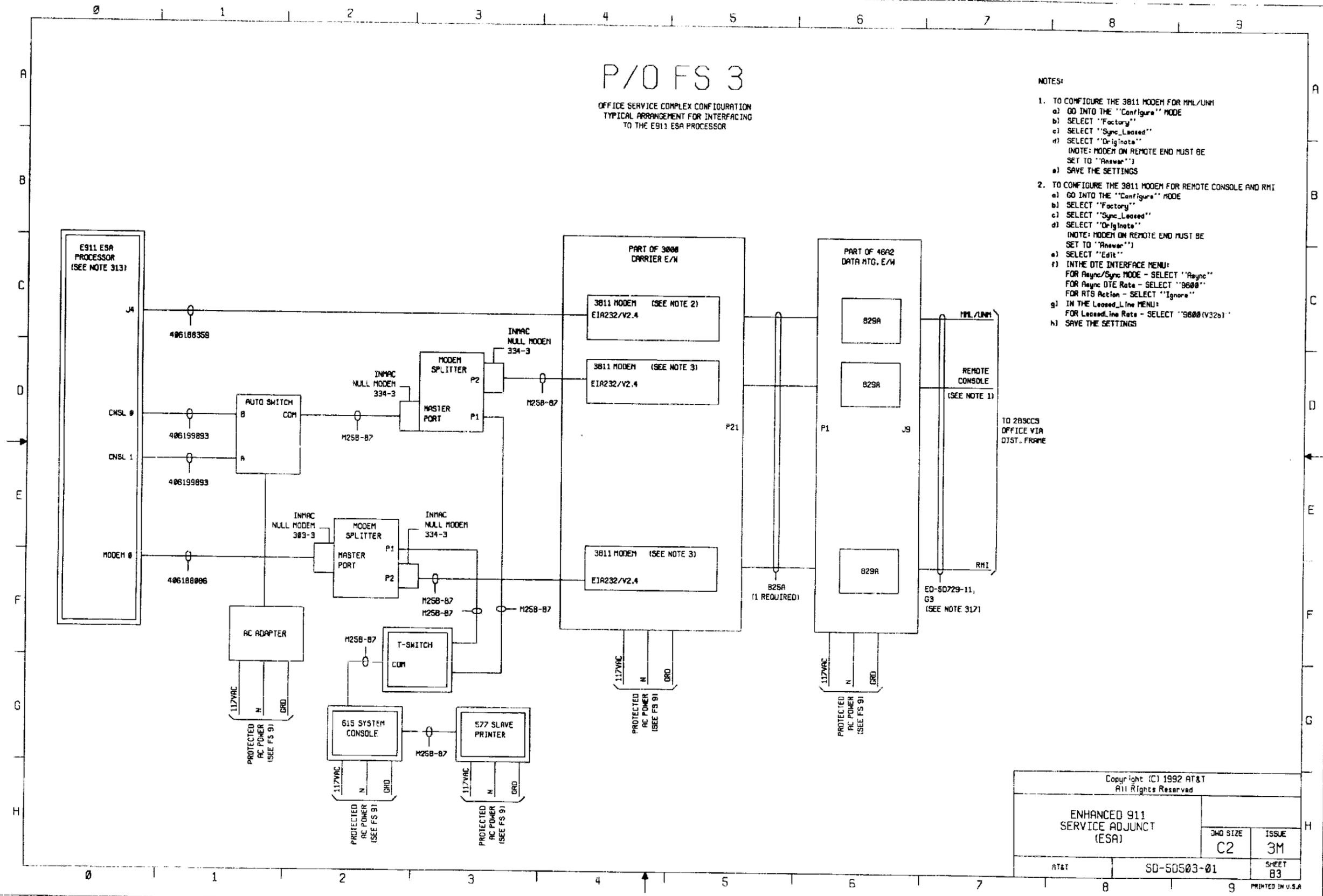
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# P/O FS 3

OFFICE SERVICE COMPLEX CONFIGURATION  
TYPICAL ARRANGEMENT FOR INTERFACING  
TO THE E911 ESA PROCESSOR



**NOTES:**

- TO CONFIGURE THE 3811 MODEM FOR HML/UNH
  - GO INTO THE "Configure" MODE
  - SELECT "Factory"
  - SELECT "Sync\_Leased"
  - SELECT "OrigInote"
  - (NOTE: MODEM ON REMOTE END MUST BE SET TO "Answer")
  - SAVE THE SETTINGS
- TO CONFIGURE THE 3811 MODEM FOR REMOTE CONSOLE AND RMI
  - GO INTO THE "Configure" MODE
  - SELECT "Factory"
  - SELECT "Sync\_Leased"
  - SELECT "OrigInote"
  - (NOTE: MODEM ON REMOTE END MUST BE SET TO "Answer")
  - SELECT "Edit"
  - IN THE DTE INTERFACE MENU:
    - FOR Async/Sync MODE - SELECT "Async"
    - FOR Async DTE Rate - SELECT "9600"
    - FOR RTS Action - SELECT "Ignore"
  - IN THE Leased\_Line MENU:
    - FOR Leased\_Line Rate - SELECT "9600 (V32b1)"
  - SAVE THE SETTINGS

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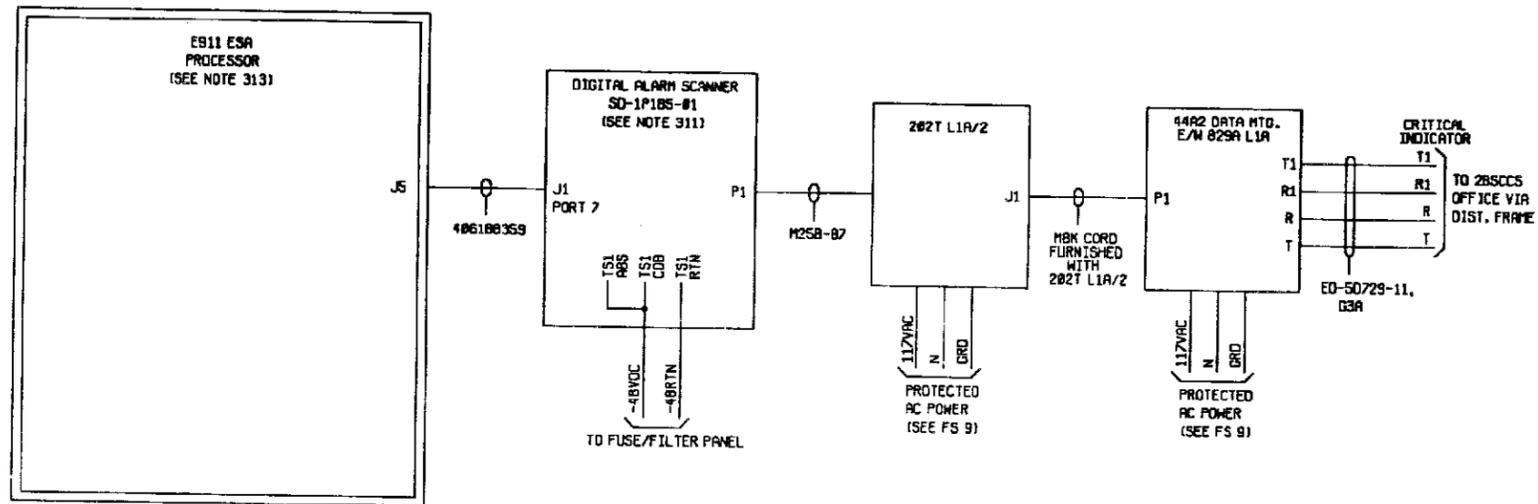
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# P/O FS 3

OFFICE SERVICE COMPLEX CONFIGURATION  
TYPICAL ARRANGEMENT FOR INTERFACING  
TO THE E911 ESA PROCESSOR

**NOTE:**

1. THE EPROM ON THE DIGITAL ALARM SCANNER MUST BE CONDITIONED AS FOLLOWS:  
DISPLAYS 5,6,7 AND 8 PER JIP#56A1, L127  
PORT 7 DISPLAY 9 PER JIP#56A1, L127.



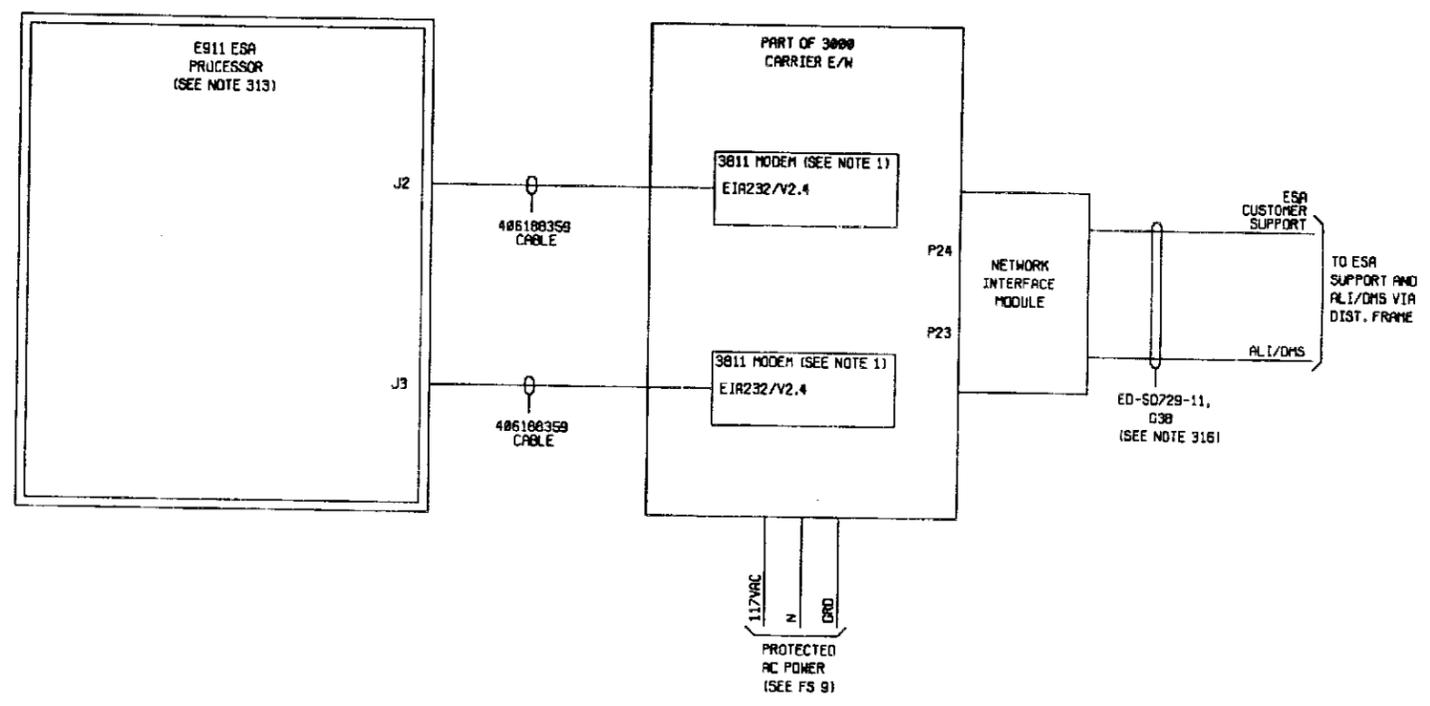
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# FS 4

ESA SUPPORT AND ALI/DMS  
TYPICAL ARRANGEMENT FOR INTERFACING  
TO THE ES11 ESA PROCESSOR



**NOTES:**

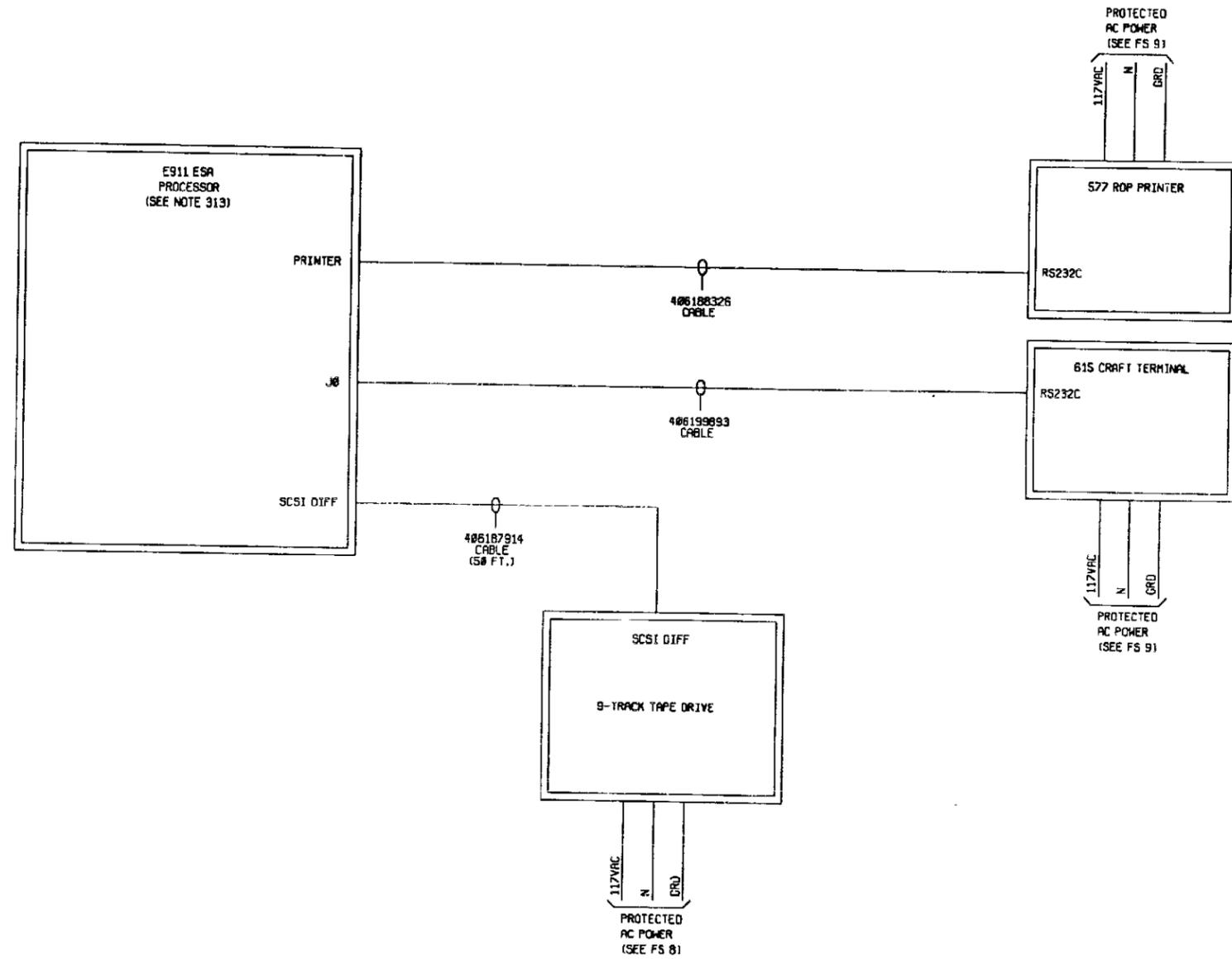
1. TO CONFIGURE THE 3011 MODEM FOR ESA CUSTOMER SUPPORT AND ALI/DMS
  - a) GO INTO THE "Configure" MODE
  - b) SELECT "Factory"
  - c) SELECT "Async\_Dial"
  - d) SELECT "Edit"
  - e) IN THE DTE INTERFACE MENU:
    - FOR Async/Sync MODE - SELECT "Async"
    - FOR Async DTE Rate - SELECT "9600"
    - FOR DTR Action - SELECT "Stndrd\_RS232"
    - FOR DSR Control - SELECT "Stndrd\_RS232"
  - f) IN THE DTE\_Dialer MENU:
    - FOR Result Codes - SELECT "Enable In Orig"
  - g) IN THE Line\_Dialer MENU:
    - FOR Long Space Dial - SELECT "Disable"
  - h) IN THE Dial\_Line MENU:
    - FOR Dial Line Rate - SELECT "9600 (V32b)"
  - i) IN THE V42/MP/Buffer MENU:
    - FOR Err Control Mode - SELECT "Buffer Mode"
    - FOR Flow Control - SELECT "XON/XOFF"
    - FOR XON/XOFF Pathru - SELECT "Enable"
  - j) IN THE Tests MENU:
    - FOR Rev Remote Loop - SELECT "Disable"
  - k) SAVE THE NEW SETTINGS.

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FS 5  
 PERIPHERAL HARDWARE  
 TYPICAL ARRANGEMENT FOR INTERFACING  
 TO THE E911 ESA PROCESSOR

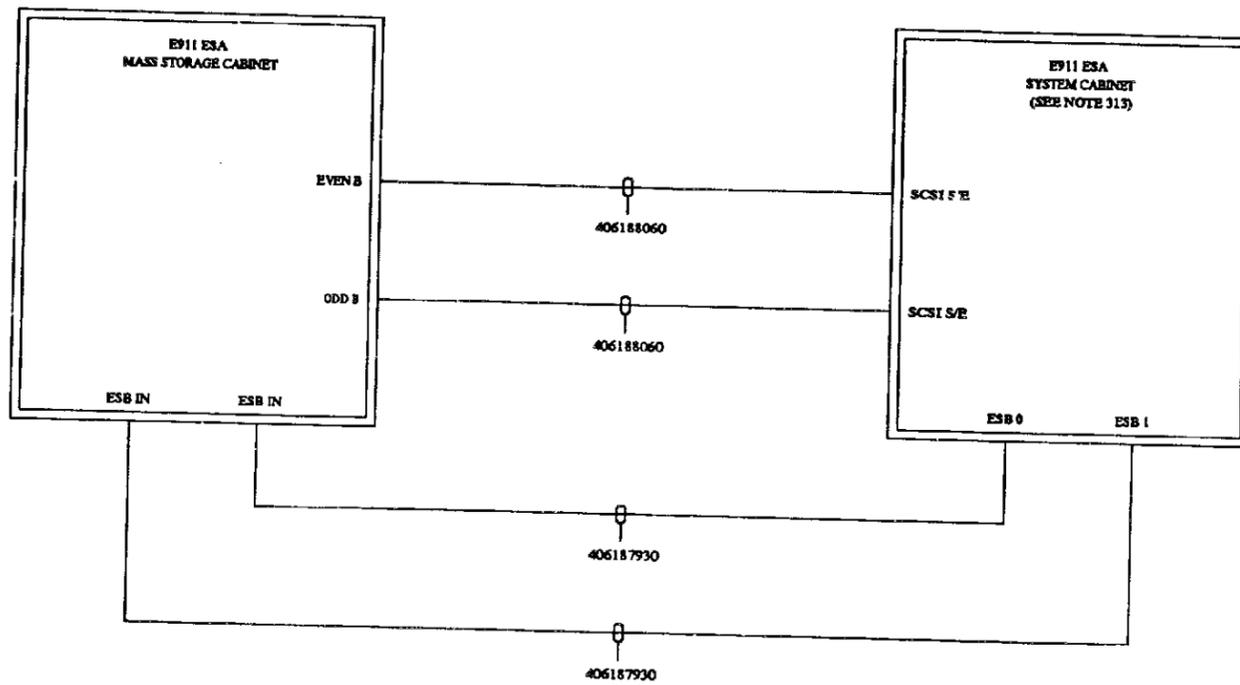


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# FS 6

ESA SYSTEM CABINET TO MSC CABINET

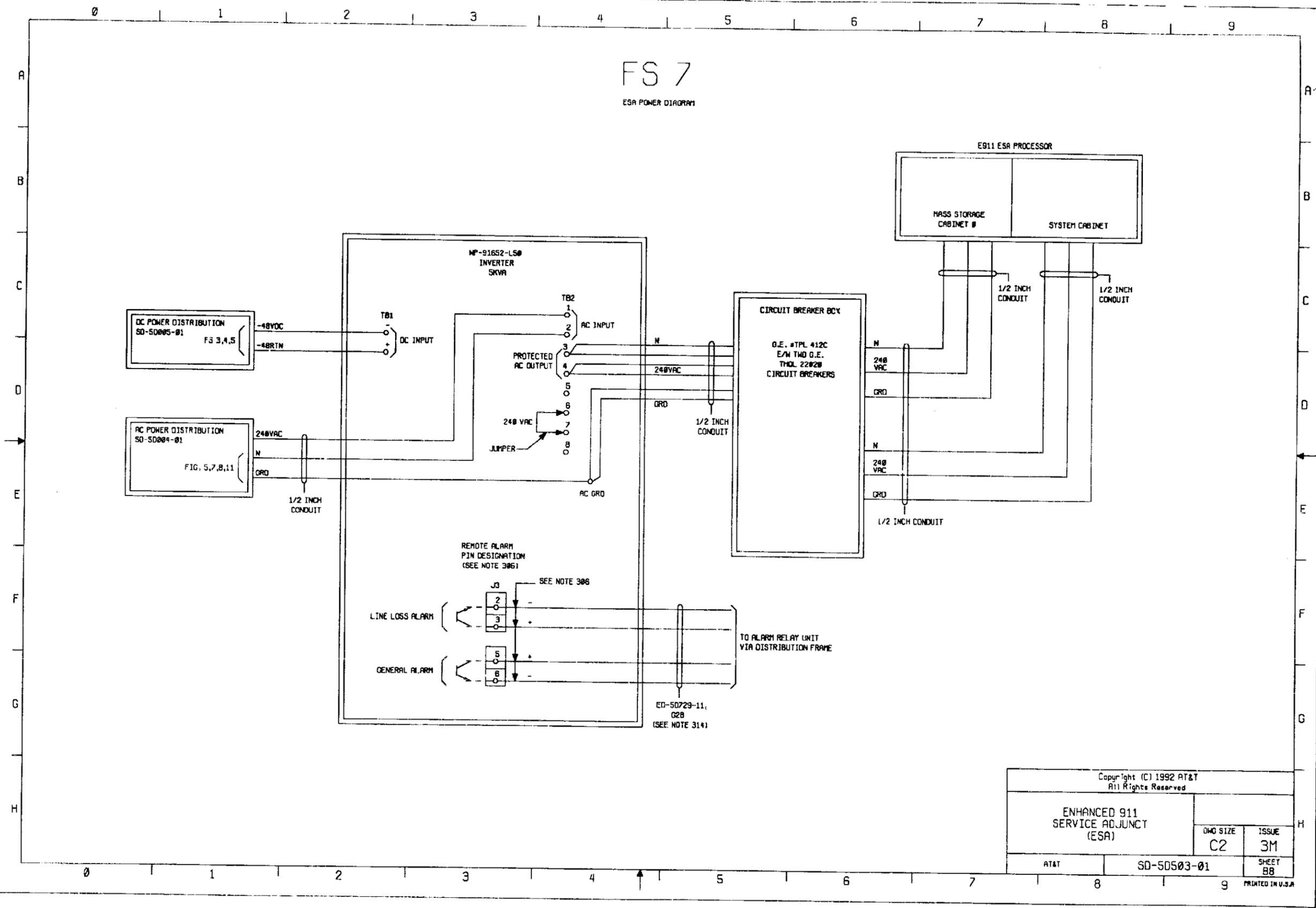


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AT&T	SD-5D503-01	SHEET B7

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# FS 7

ESA POWER DIAGRAM



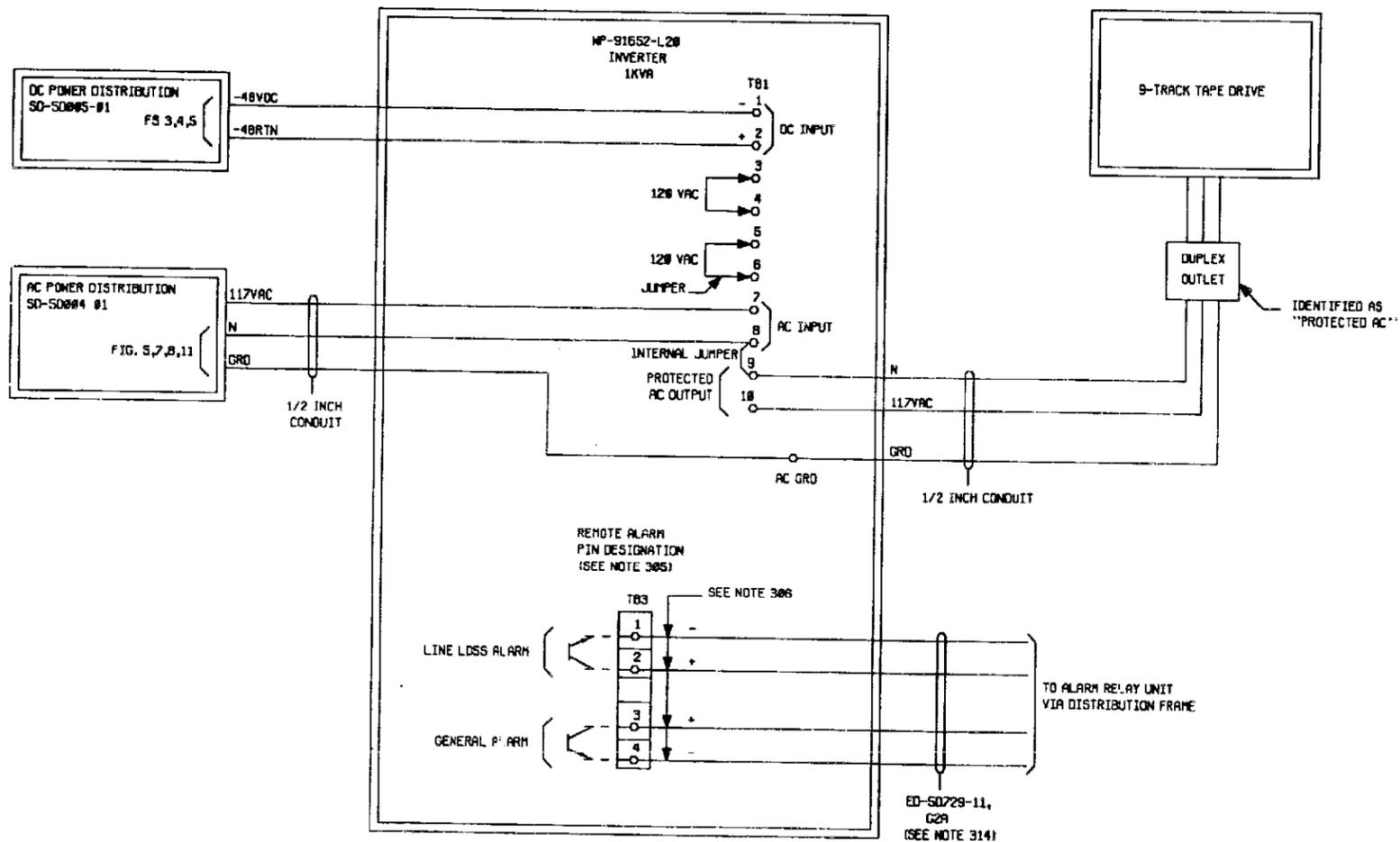
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# FS 8

9-TRACK TAPE DRIVE POWER DIAGRAM



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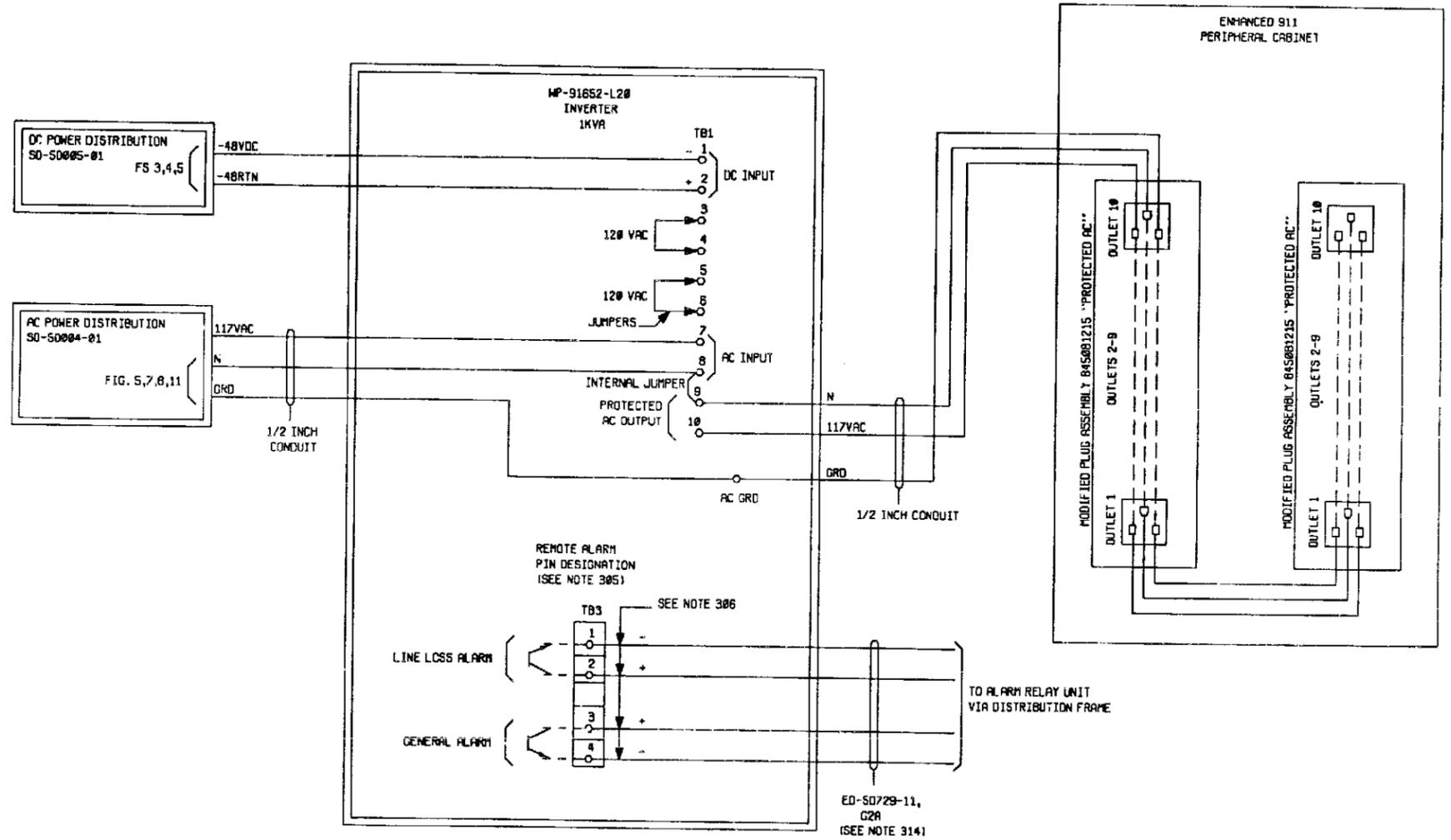


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B

# FS 9

"PROTECTED AC POWER"  
ENHANCED 911 PERIPHERAL CABINET



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SD-50503-01		SHEET B10

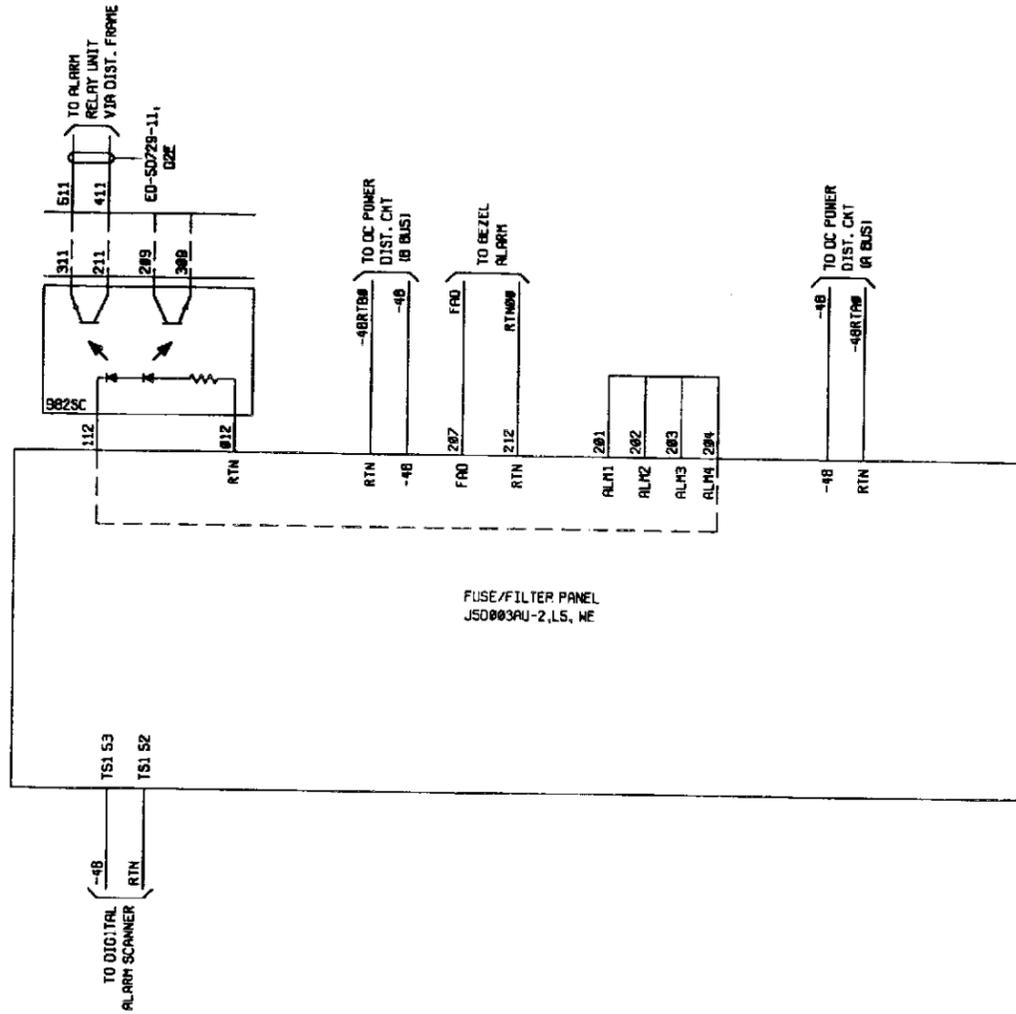
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# P/O FS 10

ES11 SERVICE ADJUNCT (ESA)  
POWER AND FUSING  
(SEE NOTE 309)



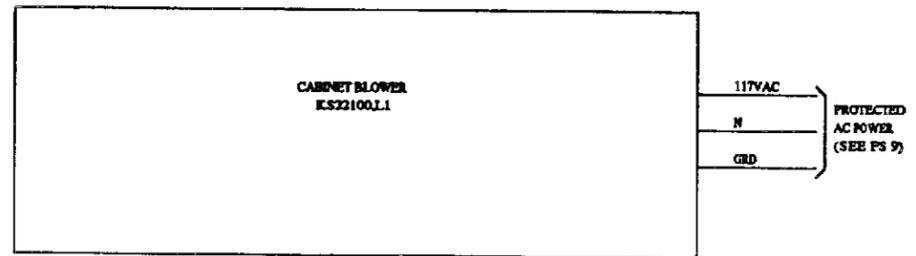
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OWG SIZE	ISSUE					
C2	3M					
AT&T	SD-50503-01	<table border="1"> <tr> <td>SHEET</td> </tr> <tr> <td>812</td> </tr> </table>	SHEET	812		
SHEET						
812						

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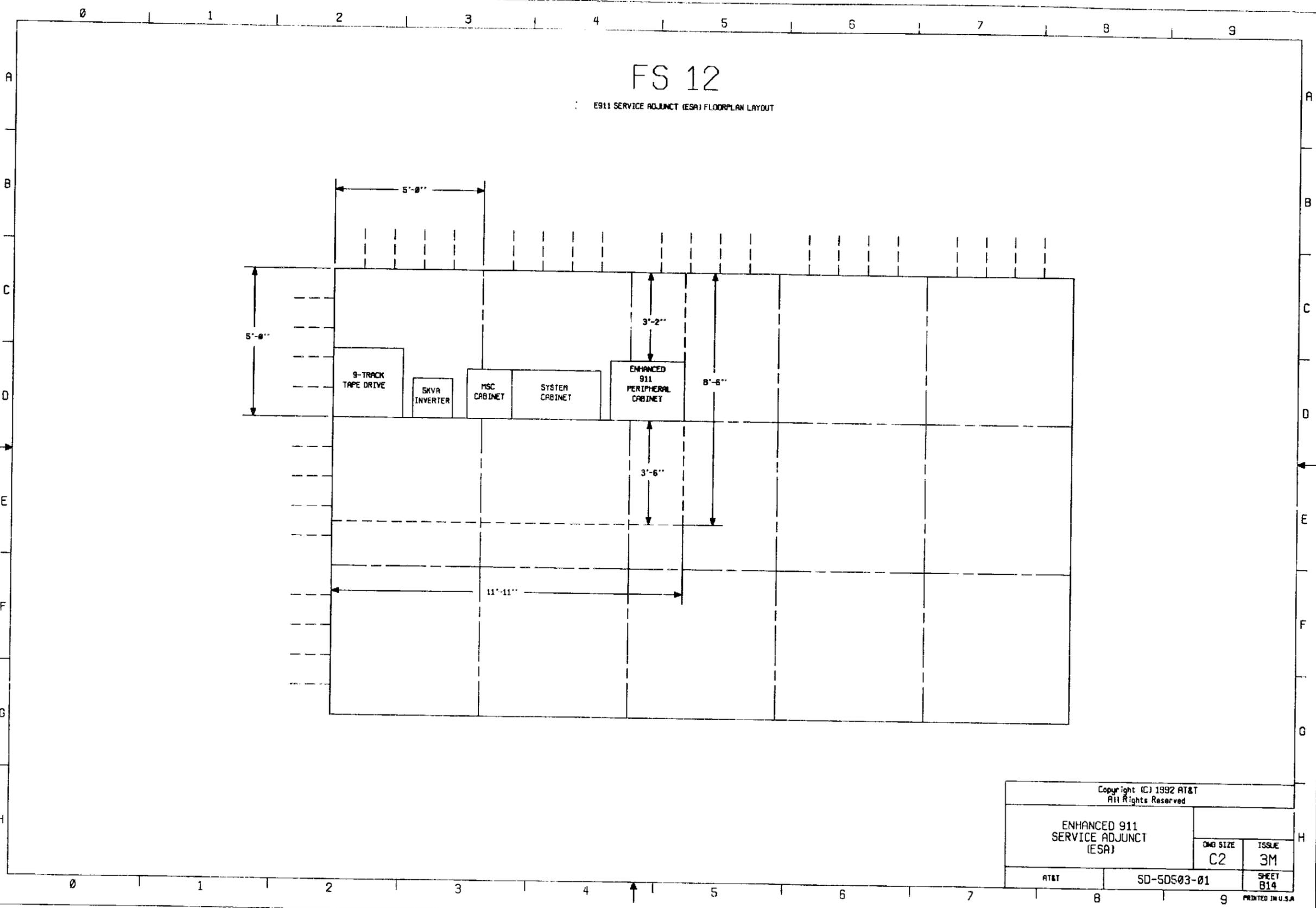
# FS 11

CABINET BLOWER POWER



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		C2
AT&T	SD-5DS03-01	ISSUE
		3M
		SHEET B14
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APP FIG. 1

OPT	DESIG	LOC	CODE
	1KVA DC TO AC INVERTER	9B4 10B4	WP-91652,L20,106
	BLOWER, CABINET	13D4	KS22100,L1
	DIRECT INTELLIGENCE INTERFACE	1C4 1D4	7B-DII 106690382
	POWER SUPPLY	1C8 1D8	353A 104380753
	ALARM RELAY UNIT	2D5	JIP158C1,L1,4
	MODEM SPLITTER	3C4 3E3	BLACK BOX #MS-3 403644867
	AUTO SWITCH	3D2	INMAC INC. #814160 406671503
	DIGITAL ALARM SCANNER	4D4	JIP058A1,L1,3,4, 6,32,127,A,B,C,D
	FUSE/FILTER PANEL	12E4	JSD003AU-2,L5, WE
	MULL MODEM	3E2	INMAC 303-3
	MULL MODEM	3D3 3D5 3F5	INMAC 334-3

APP FIG. 2

OPT	DESIG	LOC	CODE
	DATA MOUNTING	397	46A2 102969250
	DATA AUX SET	3C7,4C7	829A-L1A 102860293
	CARRIER	385,5C5	3000 SERIES 106238512
	MODEM	3C5,5D5	3011-B1/001 106597826
	NETWORK INTERFACE MODULE	5D6	3000-F1-003 106303845
	SHARED DIAGNOSTIC CONTROL PANEL	385,5C5	3000-F1-001 106303274
	MODULE, FAW	385,5C5	3000-F1-007 106238496
	AC (110) POWER SUPPLY	385,5C5	3000-F1-200 106238538
	DATA SET	4D5	202T L1A/2 103872305
	DATA MOUNTING	4D7	44A2 102966013

APP FIG. 3

OPT	DESIG	LOC	CODE
	577 PRINTER	304,6C7	406217158
	615 MT	303,6D7	501007983
	615 CONTROLLER	303,6D7	501006878
	615 KEYBOARD	303,6D7	501009013
	T-SWITCH	3F3	INMAC INC. #000001 406674556

APP FIG. 4

OPT	DESIG	LOC	CODE
	5KVA DC TO AC INVERTER	8C3	WP-91652,L50
	ESA PROCESSOR	1C2,2C2, 3C1,4C2 5C2,6C2 7D6,8B7	PEC 7342-24CVOL24
	9-TRACK TAPE DRIVE	6F5 9B7	PEC 73439
	CIRCUIT BREAKER BOX	8D6	G.E. #TPL 412C
	CIRCUIT BREAKER	8D6	G.E. #TPOL 22020

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CIRCUIT NOTES:

DESG	FUSE AMP	POTENTIAL	ONE PER
70	3.0	-48V	DIGITAL ALARM SCANNER

BATTERY SYMBOL	VOLTAGE RANGE
-48V	-42 TO -54

NETWORK VALUES			
NETWORK		RESISTANCE IN OHMS	CAPACITANCE IN UF
NO.	CODE		

EQUIPMENT NOTES:

201. TS2 MAY USE BERG CONNECTORS. THE ROW OF PINS AT THE TOP AND BOTTOM SHALL NOT BE WIRED TOO. THEY ARE USED FOR THE 143A APPARATUS MOUNTING.
202. TERMINALS ON TERMINAL STRIP ARE MALE CONTACTS. USE PRESS-ON TERMINAL LUG (FEMALE) PER AMP 41274.

INFORMATION NOTES:

301. UNLESS OTHERWISE SPECIFIED: RESISTANCE VALUES ARE IN OHMS, CAPACITANCE VALUES ARE IN MICROFARADS, VALUES PRECEDED BY THE SYMBOL + (PLUS) OR - (MINUS) ARE IN VOLTS.

FEATURE OR OPTION	PROVIDE		QUANTITY
	APP FIG	APP OR WIR	

RECORD OF FIGURES, WIRING AND APPARATUS CHANGES					
CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT	
				AVAIL	IN

304. ISOLATION GROUNDING IS REQUIRED FOR THE E911.
305. LOSS OF A-C OUTPUT CAUSES RED ALARMS ON THE METER PANEL (IF INVERTER HAS THIS OPTION) FOR "INVERTER OVERLOADED", "INPUT OVERVOLTAGE", "INPUT UNDERVOLTAGE", "OVER TEMPERATURE", AND "IMPAIRED AIRFLOW". ALSO REMOTE ALARMS WILL FURNISH THESE ALARMS IF THE INVERTER HAS THIS OPTION. ALSO REMOTE ALARMS WILL FURNISH "GENERAL ALARM" ON INVERTERS WITHOUT THE STATIC TRANSFER SWITCH OPTION AND "LINE LOSS ALARM" AND "GENERAL ALARM" WITH THE STATIC TRANSFER SWITCH OPTION.
306. INDICATES LEADS RUN BY INSTALLER.
307. ED-5D729-01 PROVIDES THE NECESSARY LIST STRUCTURES FOR ORDERING.

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ENHANCED 911  
SERVICE ADJUNCT  
(ESA)

DWG SIZE C2	ISSUE 2M
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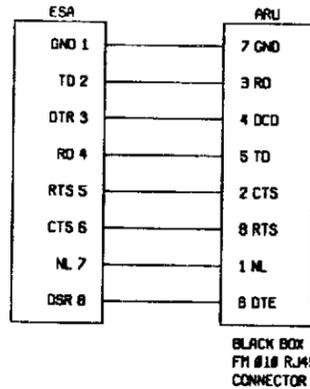
INFORMATION NOTES (CONT):

308. CURRENT DRAIN FOR PERIPHERALS AMPS =  $\frac{\text{WATTS}}{117V}$

INFORMATION SOURCE	PERIPHERALS		WATTS	AMPS
KS-22100.L1	KS-22100.L1 (BLOWER)		140	1.196
AT&T USER GUIDE	577 PRINTER		140	1.196
615HT USER GUIDE CIC: 999-300-302IS	615HT		80	.68
BSP-590-010-201 PG. 49/50	45A2 MULT (829 DS)	FULLY LOADED (11W - BX1.2)	1.4	.011
BSP-590-010-201 PG. 9	829A.L1A		1.2	.01
BSP-590-010-201 PG. 49/50	202T.L1A/2		4.6	.039
3000 SERIES INSTALLATION MANUAL 3000-A2-0A31-00	3000 SERIES CARRIER	MAX. CAPACITY	175	1.496
CONSPHERE 3000 SERIES 50 MODEM COM-DLDR-1-0591	3011 50 MODEM		4.25	.036
TAPE DRIVE USER'S GUIDE	9-TRACK TAPE DRIVE		250 MAX. 170 IDLE	2.14 1.45
78 DII USER'S GUIDE AT&T 555-021-723	78 DIRECT INTELLIGENT INTERFACE (DII) UNIT		5 MAX. 2.4 TYP.	.043 .02
201-601-600	ALARM RELAY UNIT			

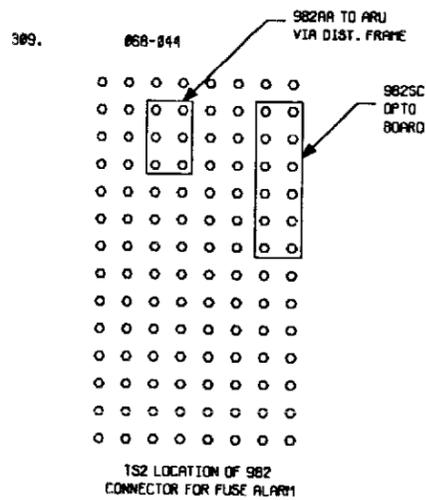
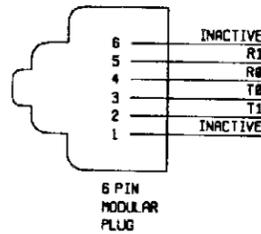
INFORMATION NOTES (CONT):

310. REMOVE CONNECTOR FROM 406100359 CABLE AND REPLACE WITH BLACK BOX #FM #10 RJ45 CONNECTOR AS SHOWN.



311. FOR SPECIFICATIONS AND WIRING INFORMATION ON THE DIGITAL ALARM SCANNER SEE SD-1P185-01 AND J1P056A-1 DRAWINGS.

312. CABLE PINDOTS FOR ED-50621-11, 051.



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ENHANCED 911  
SERVICE ADJUNCT  
(ESA)

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			SHEET 02

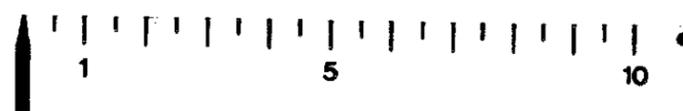
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INFORMATION NOTES (CONT):

314. THE J5 CONNECTOR, DESIGNATED SCAN POINTS, IS A 37 PIN (MALE) DB37 TYPE PLUG. CONNECTIONS SHOULD BE MADE TO THE SCAN POINTS USING A SHIELDED CABLE (DB37).

SCAN POINT NUMBER	PIN NUMBERS	ACTIVE STATE	TRANSMIT MESSAGE				AUDIBLE
			DISPLAY MESSAGE	ACTIVE	CLEAR	CHANNEL	
01	1,20	LOW/CLOSED	01 ACT	ACT 01MAJ	CLR 01MAJ	A	3
02	2,21	LOW/CLOSED	02 ACT	ACT 02MAJ	CLR 02MAJ	A	3
03	3,22	LOW/CLOSED	03 ACT	ACT 03MAJ	CLR 03MAJ	A	3
04	4,23	LOW/CLOSED	04 ACT	ACT 04MAJ	CLR 04MAJ	A	3
05	5,24	LOW/CLOSED	05 ACT	ACT 05MAJ	CLR 05MAJ	A	3
06	6,25	LOW/CLOSED	06 ACT	ACT 06MAJ	CLR 06MAJ	A	3
07	7,26	LOW/CLOSED	07 ACT	ACT 07MAJ	CLR 07MAJ	A	3
08	8,27	LOW/CLOSED	08 ACT	ACT 08MAJ	CLR 08MAJ	A	3
09	9,28	LOW/CLOSED	09 ACT	ACT 09MAJ	CLR 09MAJ	A	3
10	10,29	LOW/CLOSED	10 ACT	ACT 10MAJ	CLR 10MAJ	A	3
11	11,30	LOW/CLOSED	11 ACT	ACT 11MAJ	CLR 11MAJ	A	3
12	12,31	LOW/CLOSED	12 ACT	ACT 12MAJ	CLR 12MAJ	A	3
13	13,32	LOW/CLOSED	13 ACT	ACT 13MAJ	CLR 13MAJ	A	3
14	14,33	LOW/CLOSED	14 ACT	ACT 14MAJ	CLR 14MAJ	A	3
15	15,34	LOW/CLOSED	15 ACT	ACT 15MAJ	CLR 15MAJ	A	3
16	16,35	LOW/CLOSED	16 ACT	ACT 16MAJ	CLR 16MAJ	A	3

NOTES:

1. THESE NUMBERS REPRESENT THE PINS OF THE 37 PIN CONNECTOR (J5) ON THE BACK OF THE ARU. PINS 17,18,19,36,37 ARE NOT CONNECTED INTERNAL TO THE ARU. PINS 1-16 ARE SIGNAL LEADS AND PINS 20-35 ARE RETURN LEADS WHEN TTL CIRCUITS ARE TERMINATED.
2. ACTIVE STATUS IS LOW (0 VOLTS) FOR TTL AND CLOSED FOR RELAY CONNECT INPUT.
3. THIS INFORMATION WILL BE RETURNED TO THE HOST WHEN THERE IS A CHANGE OF STATE ON THE INPUT ACCESS POINT, OR WHEN POLLED BY THE HOST.
4. FOR ADDITIONAL INFORMATION SEE SD-SP079-02

INFORMATION NOTES (CONT):

315. THE J2 CONNECTOR, DESIGNATED AS RELAY CONNECTIONS ON THE ARU IS A 25 PIN (MALE) DB-25P TYPE PLUG. THE MATING CONNECTOR REQUIRED IS A 25 PIN (FEMALE) DB-25S TYPE RECEPTACLE.

RELAY	TYPE OF CONTACT	PIN #
K1	COMMON	1
	NORMALLY OPEN	2
	NORMALLY CLOSED	3
K2	COMMON	4
	NORMALLY OPEN	5
	NORMALLY CLOSED	6
K3	COMMON	7
	NORMALLY OPEN	8
	NORMALLY CLOSED	9
K4	COMMON	10
	NORMALLY OPEN	11
	NORMALLY CLOSED	12
K5	COMMON	13
	NORMALLY OPEN	14
	NORMALLY CLOSED	15
K6	COMMON	16
	NORMALLY OPEN	17
	NORMALLY CLOSED	18
K7	COMMON	19
	NORMALLY OPEN	20
	NORMALLY CLOSED	21
K8	COMMON	22
	NORMALLY OPEN	23
	NORMALLY CLOSED	24
	NO CONNECTION	25

NOTES:

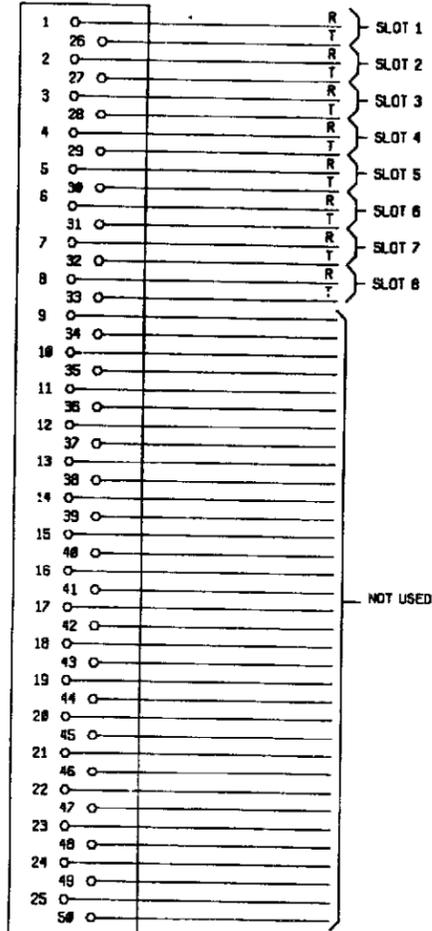
1. CONNECTIONS TO THE SESS SWITCH ARE DONE USING THE COMMON AND NORMALLY OPEN CONTACTS.
2. FOR ADDITIONAL INFORMATION SEE SD-SP079-02

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AT&T		ISSUE 3M
SD-SD503-01		SHEET 04

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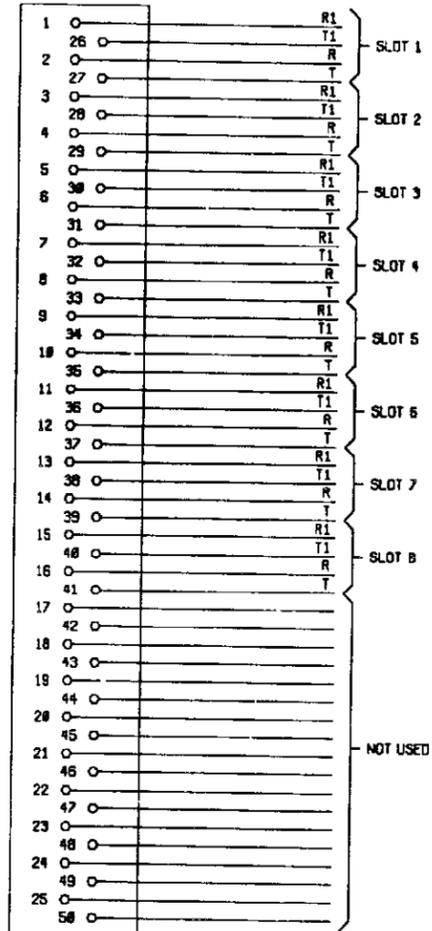
INFORMATION NOTES (CONT):

316. CABLE PINOUTS FOR ED-SD729-11, 03B  
(DIGITAL NETWORK INTERFACE MODULE)



50 PIN CONNECTOR

317. CABLE PINOUTS FOR ED-SD729-11, 03  
(DIGITAL/LEASED NETWORK INTERFACE)



50 PIN CONNECTOR

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ENHANCED 911 SERVICE ADJUNCT (ESA)		<table border="1"> <tr> <th>ORG SIZE</th> <th>ISSUE</th> </tr> <tr> <td>C2</td> <td>3M</td> </tr> </table>	ORG SIZE	ISSUE	C2	3M
ORG SIZE	ISSUE					
C2	3M					
AT&T	SD-SD503-01	SHEET 05				

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B

A

A

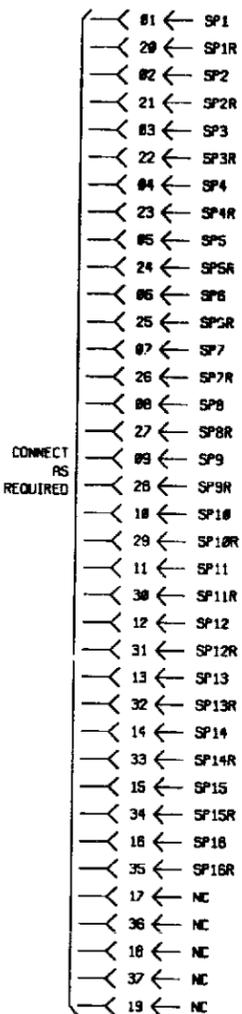
B



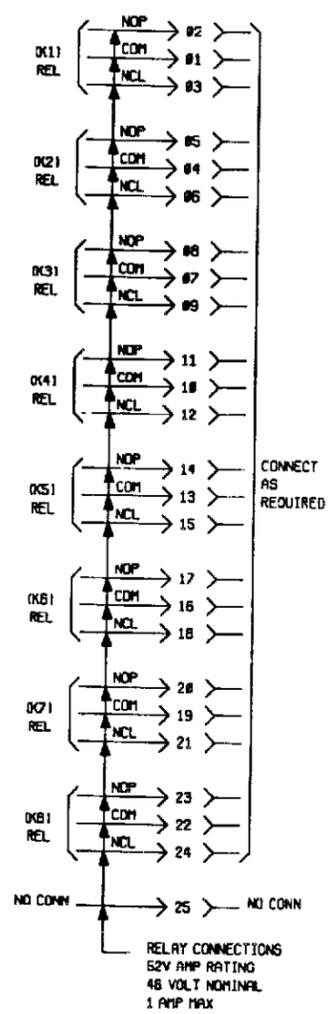


# CAD 2

## SCAN POINTS (J1) CONNECTOR ALARM RELAY UNIT



## RELAY CONNECTIONS (J2) CONNECTOR ALARM RELAY UNIT

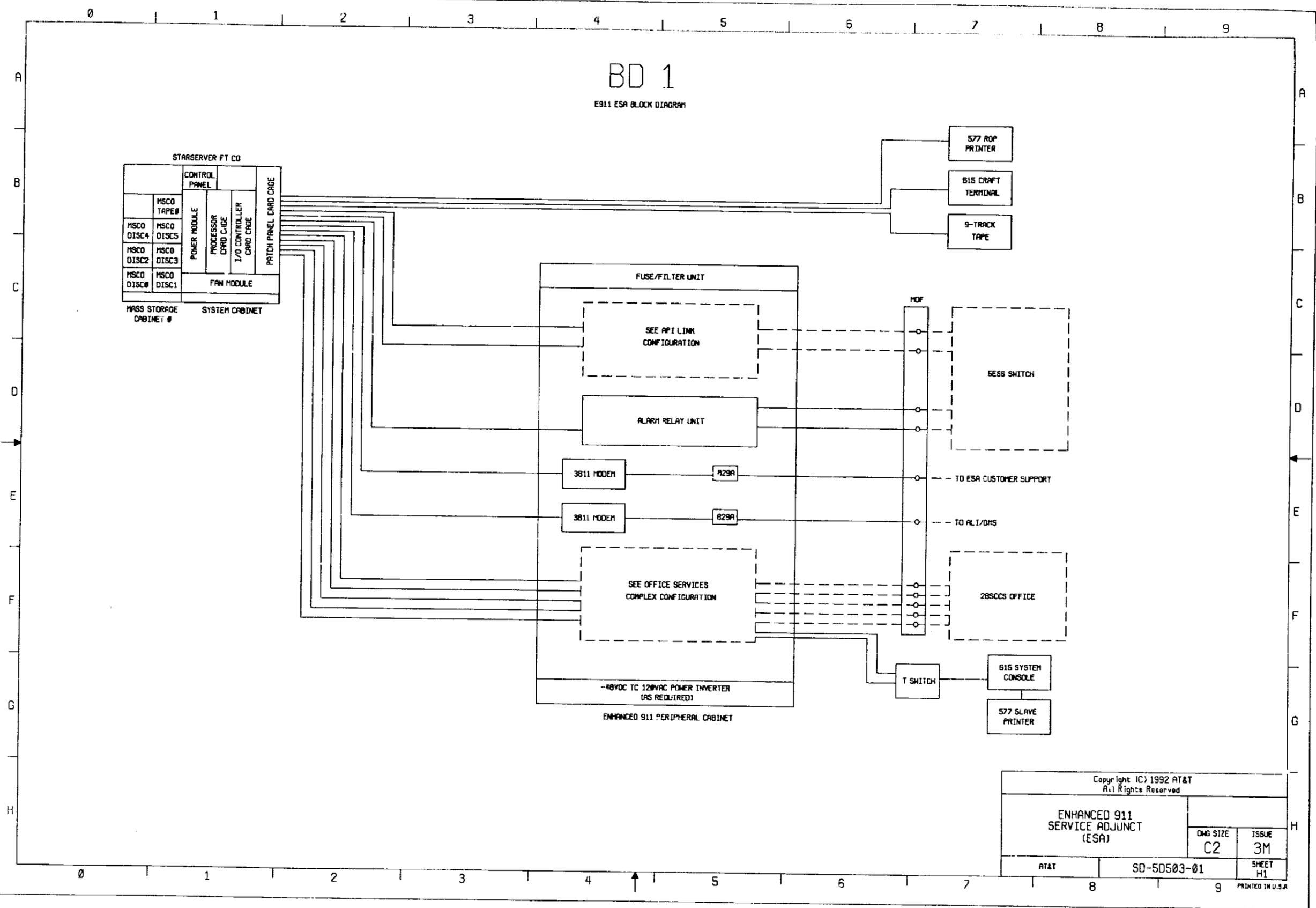


SEE PROPRIETARY NOTICE ON SHEET ONE		
ENHANCED 911 SERVICE ADJUNCT (ESA)		DWG SIZE C2
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# BD 1

ES11 ESA BLOCK DIAGRAM



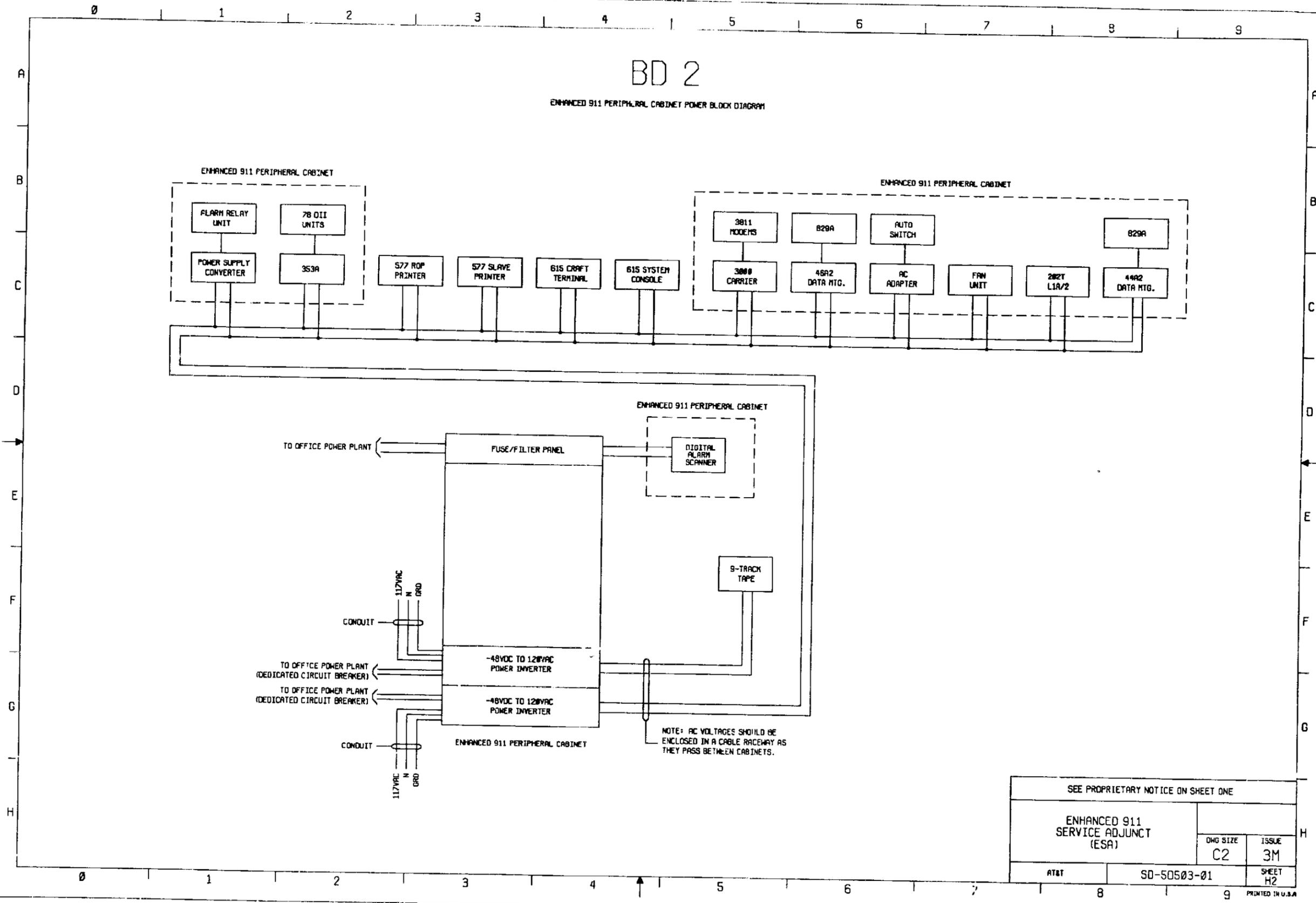
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	C2	3M
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# BD 2

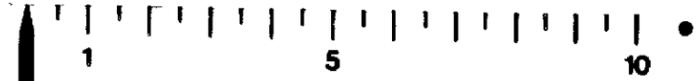
ENHANCED 911 PERIPHERAL CABINET POWER BLOCK DIAGRAM



SEE PROPRIETARY NOTICE ON SHEET ONE		
ENHANCED 911 SERVICE ADJUNCT (ESA)		
DWG SIZE	C2	ISSUE
		3M
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