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DWG ISS	CD ISS	DATE ISSD	DRN	APP
1	1	06-19-96		

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SYSTEM USED ON	DESIGN CONTROL	CATEGORY	NO.	
5ESS	IH			1. ONLY THE LATEST ISSUE, OR ISSUES IF CONCURRENT, ARE SHOWN IN THE INDEX. 2. FOR REISSUES, A CHANGED OR NEW SHEET IS ASSIGNED THE SAME ISSUE NUMBER AS SHEET 1. 3. THE ISSUE NUMBER OF SHEET 1 IS RECOGNIZED AS THE ISSUE NUMBER OF THE WHOLE DRAWING.

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BT13

**5ESS[®] SWITCHING SYSTEMS
REMOTE UNITS OUTDOOR
(RUO)
CABINET
APPLICATION SCHEMATIC**

DWG SIZE G2	ISSUE 1
AT&T	SD-5D544-01
SHEET A1 10	

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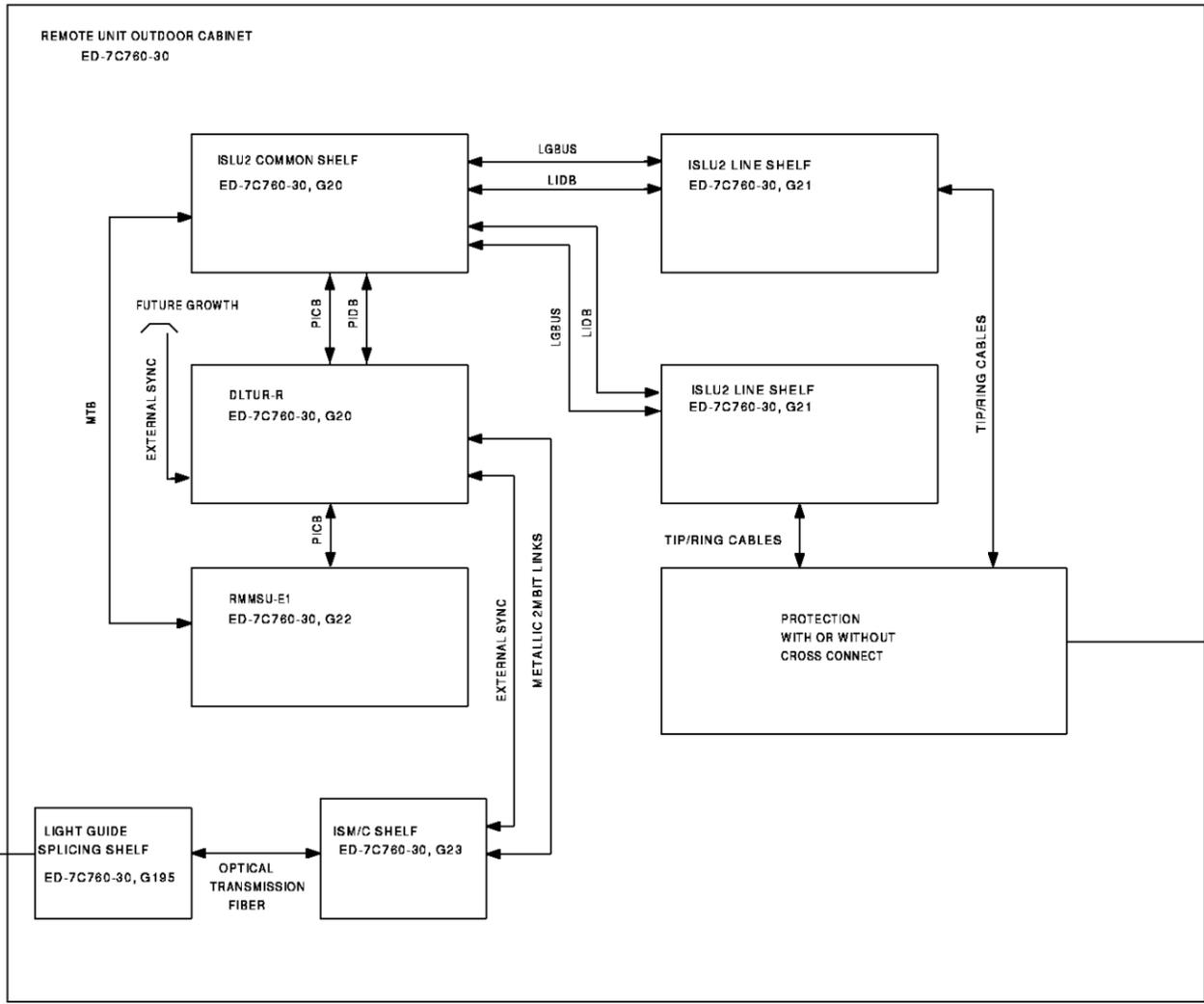
0 1 2 3 4 5 6 7 8 9

AS1

SIGNAL

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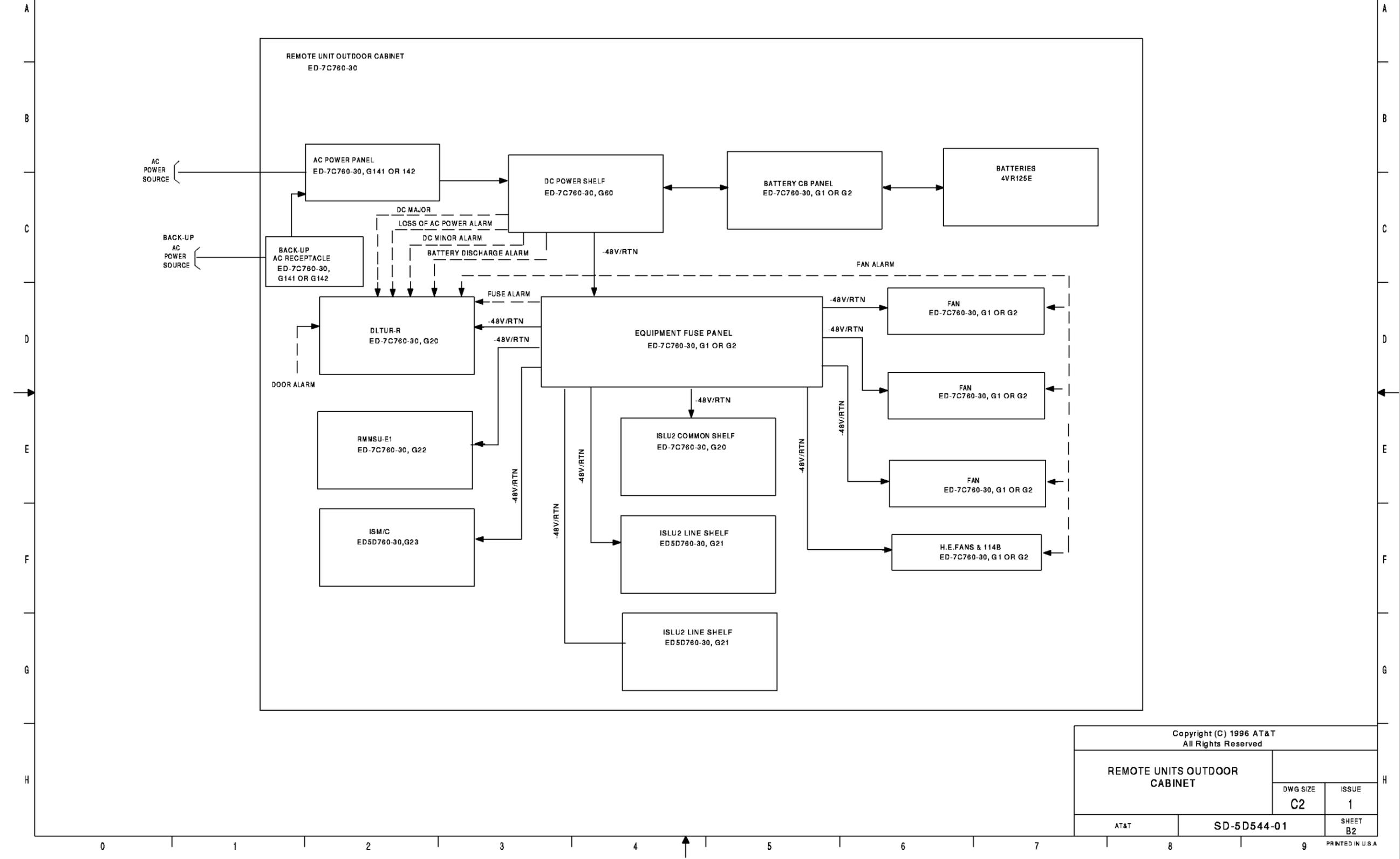


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REMOTE UNITS OUTDOOR CABINET		DWG SIZE G2
		ISSUE 1
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AS2
POWER/ALARM



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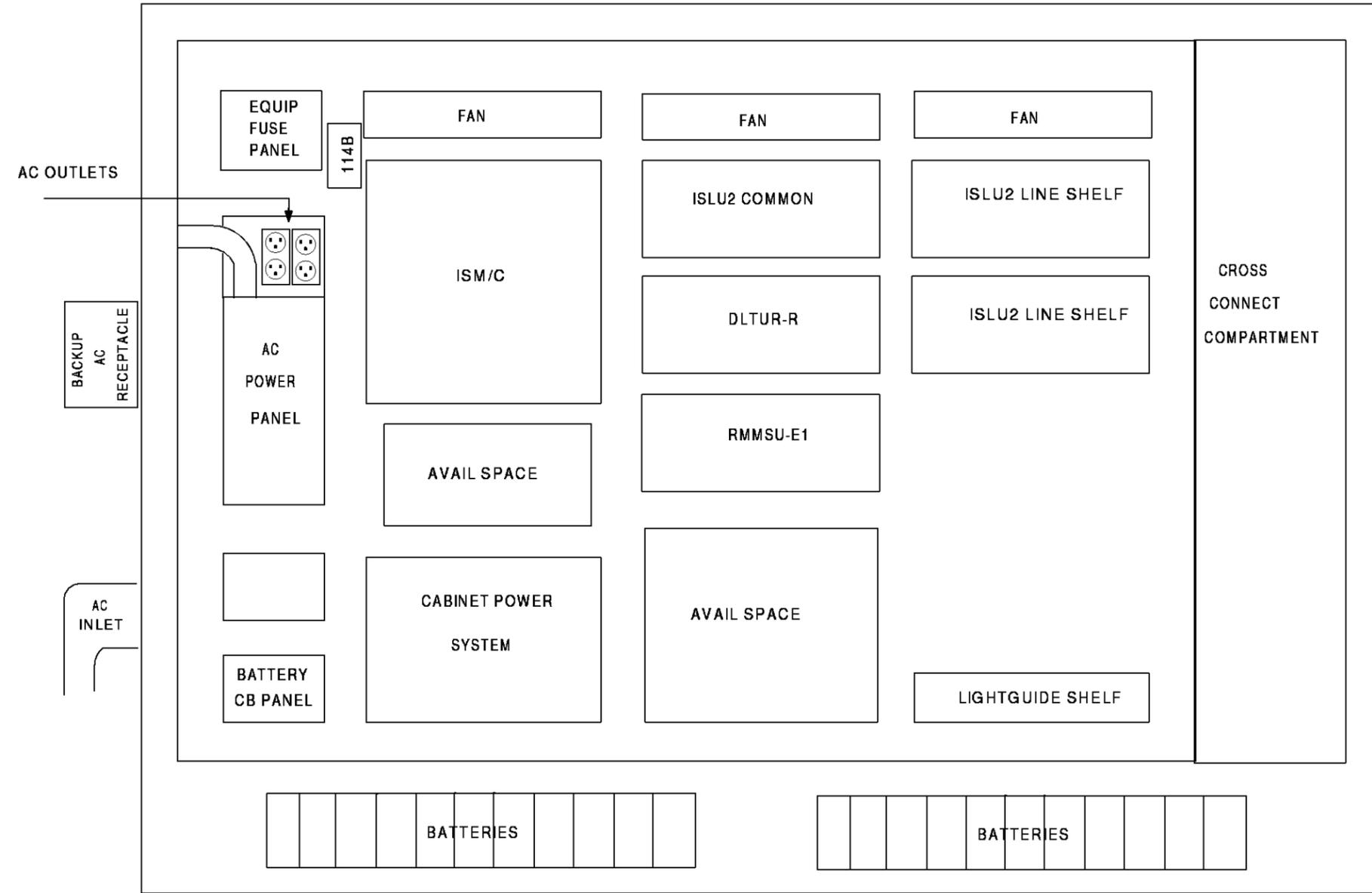
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AS3

CABINET LAYOUT WITHOUT THE 307 PROTECTOR BLOCKS
ED-7C780-30, G1

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CABINET DIMENSIONS:

HEIGHT: 1584MM
WIDTH: 3140MM
DEPTH: 798MM

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REMOTE UNITS OUTDOOR CABINET		DWG SIZE G2
AT&T	SD-5D544-01	ISSUE 1 SHEET B3

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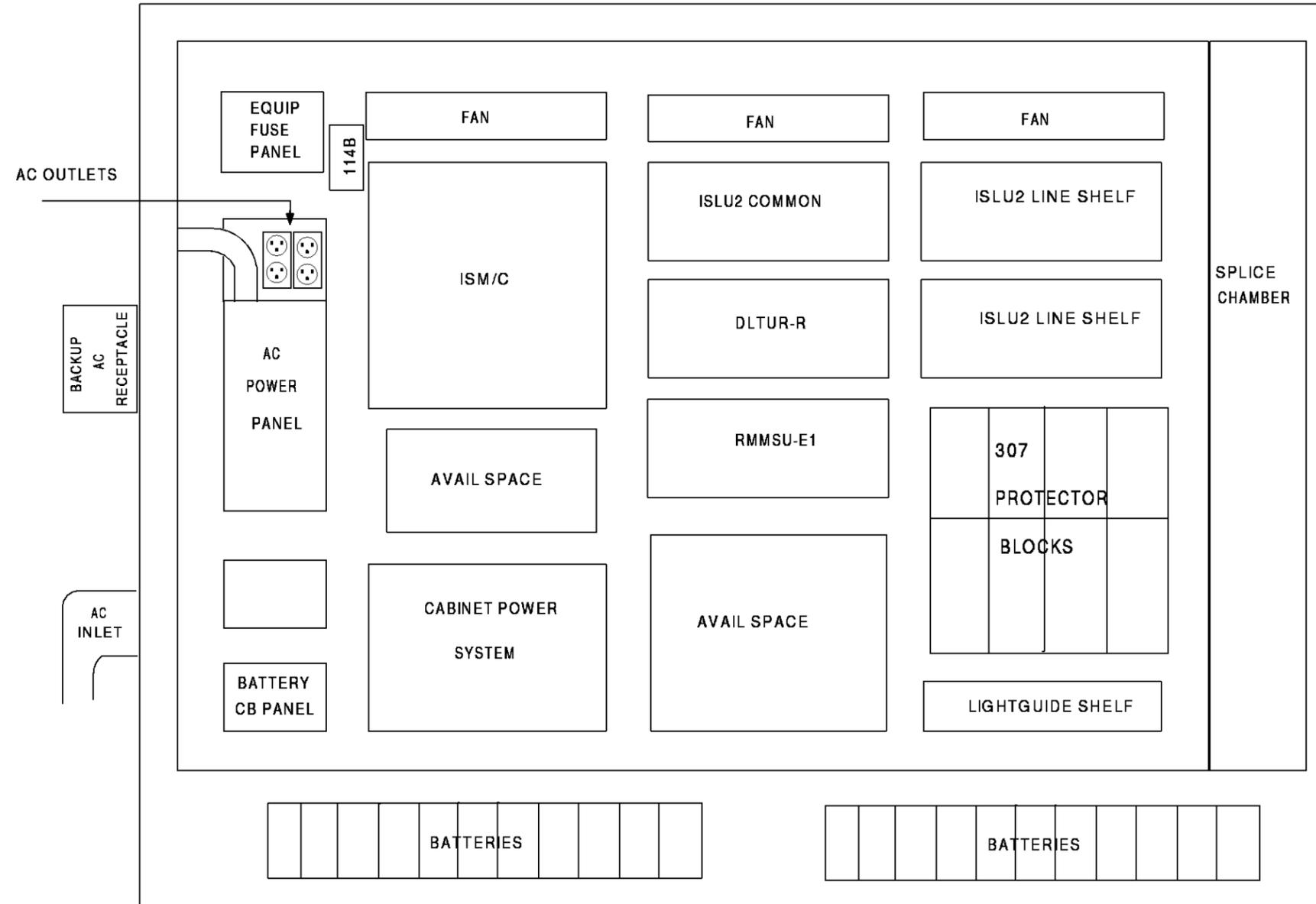
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AS4

CABINET LAYOUT WITH 307 PROTECTOR BLOCKS AND SPLICE CHAMBER
ED-7C780-30, G2

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CABINET DIMENSIONS:

HEIGHT: 1584MM
WIDTH: 2817MM
DEPTH: 798MM

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REMOTE UNITS OUTDOOR CABINET		DWG SIZE G2
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CIRCUIT NOTES:

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER
<u>BATTERY SYMBOL</u>		<u>VOLTAGE RANGE</u>	

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REMOTE UNITS OUTDOOR
CABINET

DWG SIZE	ISSUE
C2	1

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EQUIPMENT NOTES

201: EQUIPMENT NOTES 202 - 206 ARE TO BE APPLIED TO ALL RUO CABINET CONFIGURATIONS.

EQUIPMENT NOTES 207 AND 208 ARE FOR SAUDI ARABIA ORDERS ONLY.
EQUIPMENT NOTES 209 AND 210 ARE FOR PHILIPPINES ORDERS ONLY.

THE ABOVE INDICATED NOTES INCLUDE ALL REQUIRED COMCODES, J LISTS AND ED GROUP NUMBERS REQUIRED TO ALLOW AN RUO CABINET CONFIGURATION TO BE ORDERED.

202: AVAILABLE DOCUMENTS

- THE FOLLOWING IS A LIST OF DOCUMENTS FOR THE
EQUIPMENT BEING USED.

81C-HX CABINET E/W REMOTE TERMINAL APPARATUS: ED7C760-30,G187

INCLUDES: 631-600-261 81C/81C-HX CABINET INSTALLATION
631-600-259 81C-HX (HRISLU2) CABINET GENERAL DESCRIPTION
AND ORDERING INFORMATION.
640-250-284 81C-HX (HRISLU2) CABINET SPLICING AND EQUIPMENT INSTALLATION.

81C/81C-HX :ED1T290-01
PAD FABRICATION AND INSTALLATION DETAILS.

REMOTE UNITS OUTDOOR CABINET (RUO): ED7C760-30

ISLU2: J5D004AL-1, SD-5D192-01
DLTU-R: J5D003FF-1, SD-5D204-01
RMMSU-E1: J5D003FD-1, SD-5D522-01
METHOD OF CABLING: ED5D798-12
BATTERY : ED83242-31, J855040-1
COMPACT POWER SHELF: J85500R1, SD-8319601, T8319630
ISM/C: SDH DOCUMENTATION GENERAL 9560-000-0100
157-622-010 LINEAGE 200 VR SERIES BATTERY PRODUCT MANUEL
167-102-100 AT&T LINEAGE 2000 CABINET POWER SYSTEM PRODUCT MANUEL
AT&T 5ESS³-2000 SWITCH HARDENED REMOTE INTEGRATED SERVICES LINE UNIT - SAUDI ARABIA, AT&T-5HR

203: REFERENCE THE FOLLOWING ORDERING INFORMATION FOR SPARE ISM CIRCUITRY.

ISM-RDI/C ORDERING INFORMATION

IN ACCORDANCE WITH THE CURRENT AND EXPECTED AVAILABILITY, THE FOLLOWING ITEMS ARE NEEDED FOR THE ISM-COMPACT FOR THE HRISLU2 APPLICATION.

DESCRIPTION	12NC	CODE	CC	QTY	REMARKS
	9560				
ISM-RDI/C SUBRACK	094	38100	847520913	1	
USER PANEL	114	38700	UPL1 107496754	1	
POWER SUPPLY FILTER	115	01110	LAD1B 107211716	2	
TIMING GEN.	115	65100	LAA110 107256026	2	
DATA PACKET SW	114	52300	LAA61 107319295	1	
DATA PACKET SW	114	52310	LAA61B 107697823	1	GA: 4/96
SYST. CONTOL	114	51120	LAA179 107630808	1	
TPU-2/16	115	66110	LAA101B 107665655	1	NOTE 1
TPU-2/16/P	115	80110	LAA108B 107665648	1	NOTE 2
SW & CONV. BOX	115	67100	SC&CB1 107207409	4	NOTE 1
PPC/6X6	115	83100	LAA100 107244139	2	GA: NOW
LPU-155/S-1.1	114	40100	LAA63 106929581	2	GA: NOW NOTE 3
LPU-155/S-1.1	114	40120	LAA63B 107485757	2	GA: 3/96
LPU-155/S-1.1	114	40130	LAA63C 107200720	2	GA: 7/96
LPU-155/L-1.1	115	57100	LAA80 107237133	2	GA: NOW NOTE 3
LPU-155/L-1.1	115	57120	LAA80B 107542805	2	GA: 3/96
LPU-155/L-1.1	115	57130	LAA80C 107630790	2	GA: 7/96

GA: GENERAL AVAILABILITY

NOTE 1: 2 SLOTS (1,5) ARE AVAILABLE FOR SERVICE UNITS.

NOTE 2: SPECIAL PROTECTION VERSION, SLOT 9, CAN ALSO BE USED FOR SERVICE.

NOTE 3: S-1.1 STANDS FOR 0-20 DB AT 1310 NM WAVELENGTH
L-1.1 MEANS 0-28 DB AT 1310 NM WAVELENGTH

204: ALL INTERNAL CABINET CABLING IS PROVIDED IN THE ED7C760-30 SPECIFIED GROUPS.
NO ADDITIONAL INTERNAL CABLING IS REQUIRED TO BE ORDERED.

205: ALL LABELS ARE PROVIDED IN THE ED7C760-30 SPECIFIED GROUPS.
NO ADDITIONAL LABELS ARE REQUIRED TO BE ORDERED.

206: SPARE DESIGNATION STRIPS WITH LABELS ATTACHED ARE TO BE ORDERED FROM:
J5D004AL-1 FOR ISLU2 COMMON AND LINE SHELVES.
J5D003FF-1 FOR DLTU-R.
J5D003FD-1 FOR RMMSU-E1.

EQUIPMENT NOTES CONT:

207: PER APPLICATION IN SAUDI ARABIA

THE FOLLOWING EQUIPMENT IS ALWAYS REQUIRED. THE QUANTITIES AND
ORDERING CODES FOR ALL REQUIRED EQUIPMENT IS AS FOLLOWS:

CABINET

QTY	ORDERING CODE	DESCRIPTION
1	ED-7C760-30, G1	CABINET WITH CROSS CONNECT COMPARTMENT.
1	ED-7C760-30, G20	ISLU2 COMMON AND DLTUR-R SHELVES
2	ED-7C760-30, G21	ISLU2 LINE SHELF
1	ED-7C760-30, G22	RMMSU-E1 SHELF
1	ED-7C760-30, G60	CPS SHELF
1	ED-7C760-30, G100	128K MOUNTING BRACKET (G100 WILL SHIP SEPARATE FROM CABINET.)
1	ED-7C760-30, G141	AC PANEL
1	ED-7C760-30, G187	DOCUMENTATION
1	ED-7C760-30, G195	FIBER SHELF

CIRCUIT PACK/LOOSE CABINET ITEMS

- THE ITEMS BELOW ARE TO BE ORDERED AND SENT TO THE STAGING AREA OR CUSTOMER
SITE.

ISLU2 COMMON SHELF

QTY	ORDERING CODE	DESCRIPTION
1	J5D004AL-1 L17	{2-495NA, 2-UN359, 2-UN392, 4-UN361}
4	J5D004AL-1 L28A	{4-TN1676}
1	J5D004AL-1 L35A	{2-TN1384B}

DLTUR-R

QTY	ORDERING CODE	DESCRIPTION
1	J5D003FF-1 L28	{2-MC5D221A1B}
1	J5D003FF-1 L30	{1-SN730}

RMMSU-E1

QTY	ORDERING CODE	DESCRIPTION
1	J5D003FD-1 L201	{1-494LA}
1	J5D003FD-1 L202	{1-TN879B}
2	J5D003FD-1 L203	{2-TN138}
1	J5D003FD-1 L204	{1-TN1422}

CABINET POWER SYSTEM

QTY	ORDERING CODE	DESCRIPTION
4	107076259	ES660 (FOR SAUDI 4-ES660 PACKS WILL BE REQUIRED, FOR OTHER COUNTRIES THIS PACK WILL BE ENGINEERABLE.)
1	107335069	ES647

CABINET BATTERY SUPPLY

QTY	ORDERING CODE	DESCRIPTION
22	407435833	4VR125 BATTERIES

ISM/C SHELF

NOTE: ORDERS FOR THE ISM/C SHELF ALONG WITH THE SWITCH & CONVERTER
BOXES ARE TO BE MADE DIRECTLY FROM SAUDI ARABIA TO THE HUIZEN FACTORY.
THE ISM/C SHELF ALONG WITH THE SWITCH & CONVERTER BOXES ARE TO BE
INSTALLED IN SAUDI ARABIA.

CROSS CONNECT/PROTECTION HARDWARE

NOTE: KRONE CROSS CONNECT AND PROTECTION HARDWARE IS TO BE LOCALLY PROCURED
AND INSTALLED IN SAUDI ARABIA.

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CABINET

DWG SIZE
G2

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EQUIPMENT NOTES CONT:

208: ENGINEERABLE ITEMS FOR SAUDI ARABIA APPLICATION.
=====

** FOR SAUDI APPLICATIONS, ONLY LINE GROUPS 0 - 11
AND LINE PACK POSITIONS 0, 1 IN LINE GROUP 12
CAN BE EQUIPPED. LINE GROUPS 12, LINE PACK 2 AND 3 AND
LINE GROUPS 13-15 ARE NOT TO BE USED.

- THE FOLLOWING EQUIPMENT IS ENGINEERABLE:

DLTUR-R

QTY	ORDERING CODE	DESCRIPTION
2-8	J5D003FF-1, L29A	DFI-R3 (TN1410B) PACKS.

WHEN ORDERING J5D003FF-1, L29A THE TOTAL NUMBER OF L29A AND APPARATUS BLANKS
MUST EQUAL 8. THE APPARATUS BLANKS TO BE ORDERED ARE:

0-6	104042122	158C APPARATUS BLANKS
-----	-----------	-----------------------

ISLU2 LINE SHELF

QTY	ORDERING CODE	DESCRIPTION
0-32	J5D004AL-1, L61	MPA27 16-CIRCUITS, Z ANALOG LINES PACK
OR		
0-32	J5D004AL-1, L47B	MPA6B 8 CIRCUITS, Z ANALOG CARDS WITH PPM
OR		
0-32	J5D004AL-1, L60A	MPU1B 8-CIRCUITS, U LINE PACK

THE TOTAL NUMBER OF LINE PACKS AND APPARATUS BLANKS ORDERED
SHALL EQUAL 32 PER LINE SHELF. THE APPARATUS BLANKS TO BE
ORDERED ARE:

0-32	106247026	178C APPARATUS BLANKS
------	-----------	-----------------------

ISLU2 COMMON SHELF

QTY	ORDERING CODE	DESCRIPTION
2-6	J5D004AL-1, L22A	EHLSC, TN1412
OR		
2-6	J5D004AL-1, L23	HLSC, MC5D097A3E

WHEN ORDERING (E)HLSC PACKS, THE TOTAL NUMBER OF PACKS AND APPARATUS
BLANKS MUST EQUAL 6. THE APPARATUS BLANKS TO BE ORDERED ARE:

0-4	106247034	178D APPARATUS BLANKS
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REMOTE UNITS OUTDOOR
CABINET

DWG SIZE	ISSUE
G2	1

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EQUIPMENT NOTES CONT:

209: PER APPLICATION IN PHILIPPINES
 THE FOLLOWING EQUIPMENT IS ALWAYS REQUIRED. THE QUANTITIES AND ORDERING CODES FOR ALL REQUIRED EQUIPMENT IS AS FOLLOWS:

CABINET		
QTY	ORDERING CODE	DESCRIPTION
1	ED-7C760-30, G2	CABINET
1	ED-7C760-30, G20	ISLU2 COMMON AND DLTUR-R SHELVES
2	ED-7C760-30, G21	ISLU2 LINE SHELF
1	ED-7C760-30, G22	RMMSU-E1 SHELF
1	ED-7C760-30, G60	CPS SHELF
1	ED-7C760-30, G101	128H MOUNTING BRACKET (G101 WILL SHIP SEPARATE FROM CABINET.)
1	ED-7C760-30, G142	AC PANEL
1	ED-7C760-30, G187	DOCUMENTATION
1	ED-7C760-30, G195	FIBER SHELF
3	ED-7C760-30, G130	PROTECTORS 3E1S SOLID STATE (MAX 3 GROUPS/HRISLU, EACH GROUP CONTAINS 256 PROTECTORS)

CIRCUIT PACK/LOOSE CABINET ITEMS

THE ITEMS BELOW ARE TO BE ORDERED AND SENT TO THE STAGING AREA OR CUSTOMER SITE.

ISLU2 COMMON SHELF		
QTY	ORDERING CODE	DESCRIPTION
1	J5D004AL-1 L17	(2-495NA, 2-UN359, 2-UN392, 4-UN361)
4	J5D004AL-1 L28A	(4-TN1676)
1	J5D004AL-1 L35A	(2-TN1384B)

DLTUR-R		
QTY	ORDERING CODE	DESCRIPTION
1	J5D003FF-1 L28	(2-MC5D221A1B)
1	J5D003FF-1 L30	(1-SN730)

RMMSU-E1		
QTY	ORDERING CODE	DESCRIPTION
1	J5D003FD-1 L201	(1-494LA)
1	J5D003FD-1 L202	(1-TN879B)
2	J5D003FD-1 L203	(2-TN138)
1	J5D003FD-1 L204	(1-TN1422)

CABINET POWER SYSTEM		
QTY	ORDERING CODE	DESCRIPTION
4	107076259	ES660 (FOR PHILIPPINES, 4-ESS660 PACKS WILL BE REQUIRED, FOR) OTHER COUNTRIES THIS PACK WILL BE ENGINEERABLE.)
1	107335069	ES647

CABINET BATTERY SUPPLY		
QTY	ORDERING CODE	DESCRIPTION
22	407435833	4VR125E BATTERIES

ISM/C SHELF
 NOTE: ORDERS FOR THE ISM/C SHELF ALONG WITH THE SWITCH & CONVERTER BOXES ARE TO BE MADE DIRECTLY FROM THE PHILIPPINES TO THE HUIZEN FACTORY. THE ISM/C SHELF ALONG WITH THE SWITCH & CONVERTER BOXES ARE TO BE INSTALLED IN THE PHILIPPINES.

EQUIPMENT NOTES CONT:

210: ENGINEERABLE ITEMS FOR PHILIPPINES APPLICATION.

** FOR PHILIPPINES APPLICATIONS, ONLY LINE GROUP 0-11 AND LINE PACK POSITIONS 0, 1 IN LINE GROUP 12 CAN BE EQUIPPED. LINE GROUPS 12, LINE PACK 2 AND 3 AND LINE GROUPS 13-15 ARE NOT TO BE USED.

THE FOLLOWING EQUIPMENT IS ENGINEERABLE:

DLTUR-R		
QTY	ORDERING CODE	DESCRIPTION
2-8	J5D003FF-1, L29A	DFI-R3 (TN1410B) PACKS.
WHEN ORDERING J5D003FF-1, L29A THE TOTAL NUMBER OF L29A AND APPARATUS BLANKS MUST EQUAL 8. THE APPARATUS BLANKS TO BE ORDERED ARE:		
0-6	104042122	158C APPARATUS BLANKS
ISLU2 LINE SHELF		
QTY	ORDERING CODE	DESCRIPTION
0-32	J5D004AL-1, L61	MPA27 16-CIRCUITS, Z ANALOG LINES PACK
0-32	J5D004AL-1, L47B	MPA6B 8 CIRCUITS, Z ANALOG CARDS WITH PPM
0-32	J5D004AL-1, L60A	MPU1B 8-CIRCUITS, U LINE PACK

THE TOTAL NUMBER OF LINE PACKS AND APPARATUS BLANKS ORDERED SHALL EQUAL 32 PER LINE SHELF. THE APPARATUS BLANKS TO BE ORDERED ARE:

0-32	106247026	178C APPARATUS BLANKS
------	-----------	-----------------------

ISLU2 COMMON SHELF		
QTY	ORDERING CODE	DESCRIPTION
2-6	J5D004AL-1, L22A	EHLSC, TN1412
2-6	J5D004AL-1, L23	HLSC, MC5D097A3E

WHEN ORDERING (E)HLSC PACKS, THE TOTAL NUMBER OF PACKS AND APPARATUS BLANKS MUST EQUAL 6. THE APPARATUS BLANKS TO BE ORDERED ARE:

0-4	106247034	178D APPARATUS BLANKS
-----	-----------	-----------------------

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DWG SIZE
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INFORMATION NOTES:

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

302.

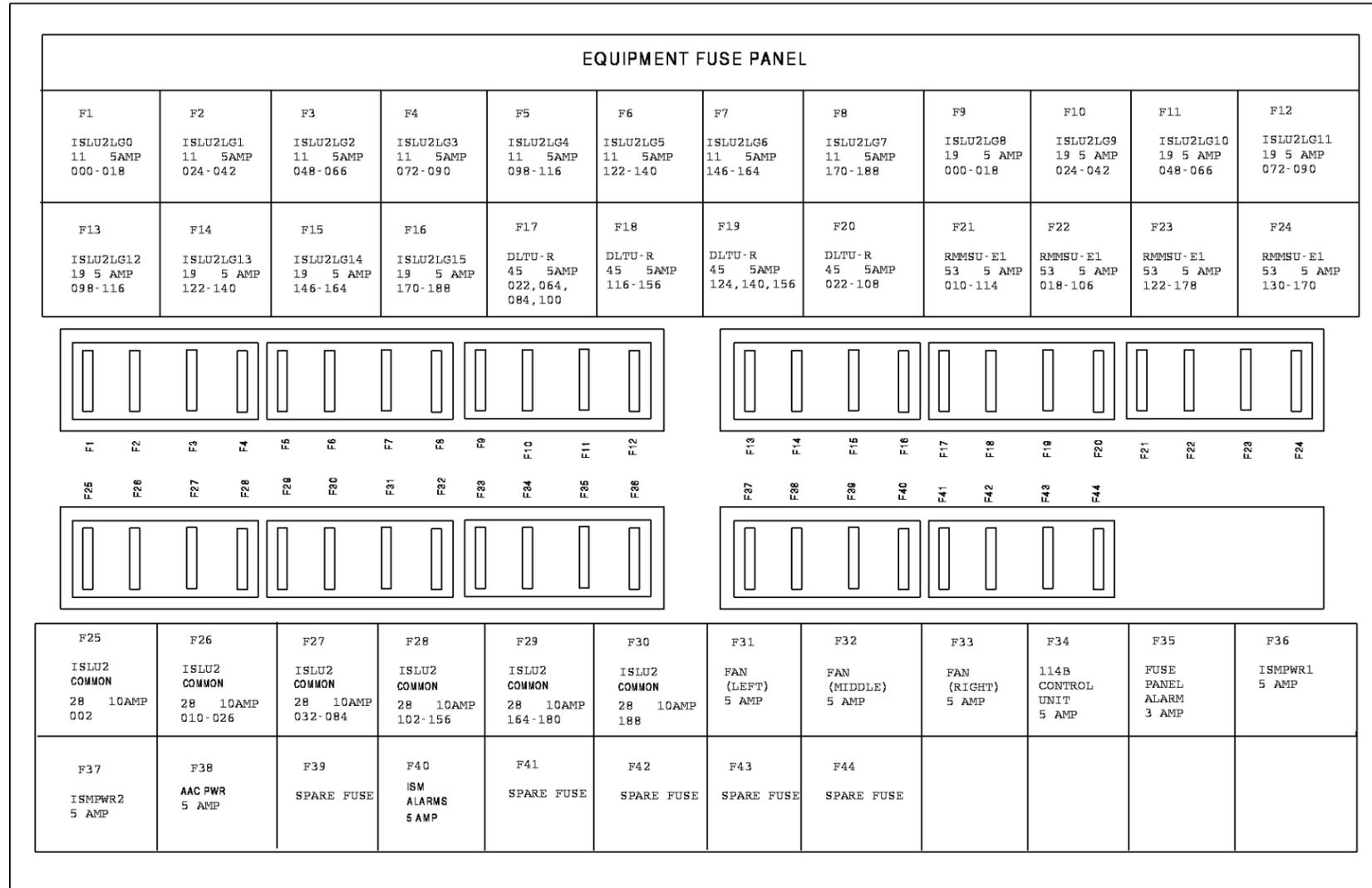
FEATURE OR OPTION	PROVIDE	
	APP FIG	APP OR WRG QUANTITY

303.

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	DA

INFORMATION NOTES CONT:

304. THE INFORMATION BELOW DISPLAYS THE EQUIPMENT FUSE PANEL LABELING.



(SEE J5D004AL-1, J5D003FF-1, J5D003FD-1 AND ED5D7C780-30 FOR SPARE FUSE ORDERING INFORMATION.)

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