

**SHEET INDEX**

CONTENTS	SHEET NO.	SHEET ISSUE NO.
SHEET INDEX OPTION INDEX SUPPORTING INFORMATION	A1	1
DESIGNATION MNEMONICS	A2	1
AS 1 FAC CABINET	B1	1
AS 1A CABINET W/O MFFU POSITION IWG2 CABINET	B1A	1
AS 2 MODULAR FUSE FILTER UNIT	B2	1
AS 3 ETS 1 OLP CABINET	B3	1
AS 3A ETS 2 OLP CABINET	B3A	1
AS 3B ETS ATM3 CABINETS 00 & 01	B3B	1
AS 3C ETS IWG1 CABINET	B3C	1
AS 4 MH HUB 1 IWG1 CABINET	B4	1
AS 4A MH HUB 2 IWG1 CABINET	B4A	1
AS 5 EM HUB ATM3 CABINET 00	B5	1
AS 5A EM HUB ATM3 CABINET 01	B5A	1
AS 5B EM HUB IWG1 CABINET	B5B	1
AS 6 L2 SWITCH 1 OLP CABINET	B6	1
AS 6A L2 SWITCH 2 OLP CABINET	B6A	1
AS 7 DCPPU ATM3 CABINETS 00 & 01	B7	1
AS 8 NETRA T 1400 ONELINK PROCESSOR 1 OLP CABINET	B8	1
AS 8A NETRA T 1400 ONELINK PROCESSOR 2 OLP CABINET	B8A	1
AS 9 SUN NETRA ST D130 EXTERNAL DISK UNIT 1 OLP CABINET	B9	1
AS 9A NETRA ST D130 EXTERNAL DISK UNIT 2 OLP CABINET	B9A	1
AS 10 GX550 UNIT ATM3 CABINETS 00 & 01	B10	1
AS 11 IWG-PVG UNIT IWG1 & IWG2 CABINETS	B11	1
AS 12 FIBER OPTIC PANEL IWG1 & IWG2 CABINETS	B12	1
APP FIGS. 1-9	C1	1
CIRCUIT NOTES EQUIPMENT NOTES	D1	1
INFORMATION NOTES	D2	1

**SHEET INDEX (CONT)**

CONTENTS	SHEET NO.	SHEET ISSUE NO.
BD 1 OLP CABINET	H1	1
BD 2 ATM3 CABINET	H2	1
BD 3 IWG1 CABINET	H3	1
BD 4 IWG2 CABINET	H4	1

**OPTION INDEX**

APP OR WRG	RATED ON ISSUE	REF NOTES	LOCATION

DWG ISS	CD ISS	DATE ISSD	DRN	APP
1	1 APPX	10-24-00	PJV	

A

B

C

D

E

F

G

H

A

B

C

D

E

F

G

H

**SUPPORTING INFORMATION**

SYSTEM USED ON	DESIGN CONTROL	CATEGORY	NO.
5ESS / 7R/E	IH		

**SHEET INDEX NOTES**

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.

LUCENT TECHNOLOGIES INC. - PROPRIETARY  
USE PURSUANT TO COMPANY INSTRUCTIONS

BB01

**5ESS<sup>®</sup> SWITCHING SYSTEMS  
7R/E PACKET LOCAL SOLUTIONS  
APPLICATION SCHEMATIC**

DWG SIZE <b>C2</b>	ISSUE <b>1</b>
-----------------------	-------------------

LUCENT TECHNOLOGIES, INC.

SD-5D564-02

SHEET A1  
OF 31

# DESIGNATION MNEMONICS

<u>DESIG</u>	<u>DEFINITION</u>
-48V	-48 VOLT POWER FEED
AOI	ALARM OFFICE INTERFACE
ASM	ADMINISTRATIVE SERVICES MODULE
ATM	ASYNCHRONOUS TRANSFER MODE
CIA	CUSTOMER INTERFACE ACCESS
DCPPU	DC POWER PROTECTION UNIT
EDU	EXTERNAL DISK UNIT
EM HUB	ELEMENT MANAGER HUB
ENET	ETHERNET
ETS	ENHANCED TERMINAL SERVER
IWG-PVG	INTERNETWORKING GATEWAY - PACKET VOICE GATEWAY
LGX	LIGHT GUIDE CROSS-CONNECT
MCC PC	MAINTENANCE CONTROL CONSOLE PC
MFFU	MODULAR FUSE FILTER UNIT
MH-EIB	MESSAGE HANDLER ETHERNET INTERFACE BOARD
MH HUB	MESSAGE HANDLER
OLP	ONELINK PROCESSOR
PCI	PERIPHERAL COMPONENT INTERCONNECT
PLS	PACKET LOCAL SOLUTIONS
SMPU5	SWITCHING MODULE PROCESSOR UNIT MODEL 5
TSG	TIME SIGNALLING GENERATOR
TSIU4	TIME SLOT INTERCHANGE UNIT MODEL 4

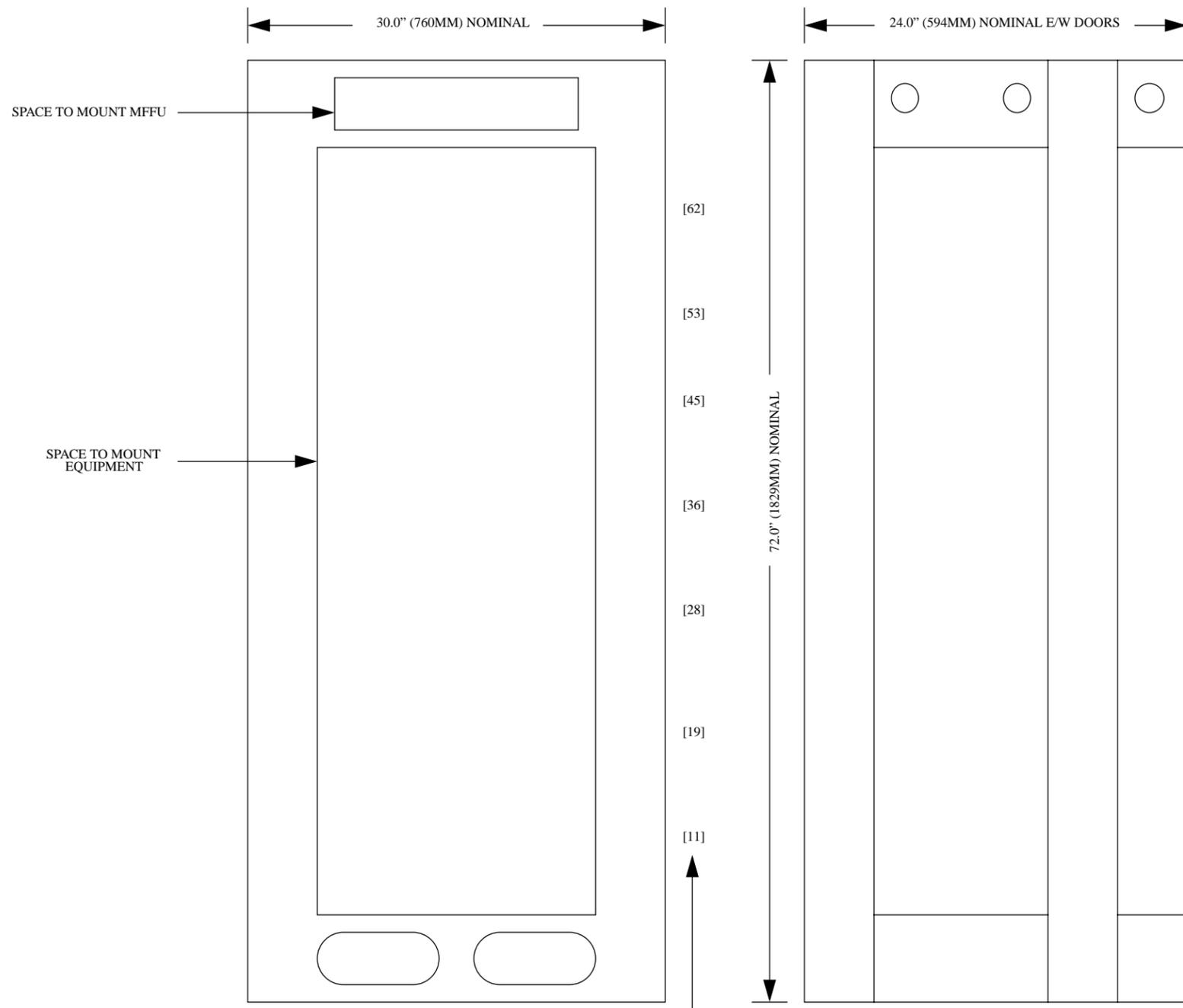
LUCENT TECHNOLOGIES INC. - PROPRIETARY USE PURSUANT TO COMPANY INSTRUCTIONS		
7R/E PACKET LOCAL SOLUTIONS APPLICATION SCHEMATIC		DWG SIZE
		C2
LUCENT TECHNOLOGIES, INC.		ISSUE
		1
SD-5D564-02		SHEET A2

0 1 2 3 4 5 6 7 8 9

A  
B  
C  
D  
E  
F  
G  
H

# AS 1

FAC CABINET  
ED5D785-70



EQLS ARE TO THE CENTER OF THE UNIT  
MEASURED FROM THE BOTTOM OF THE FRAME

**DESCRIPTION**

THIS IS THE STEEL FRAMEWORK WHICH HOUSES 7R/E PLS HARDWARE.

IT IS TO BE EQUIPPED WITH UNIT MOUNTING GUIDES, FRONT INDICATOR STRIP (ED5D745-()), OPTIONAL REAR INDICATOR STRIP (ED5D745-()), AND FRONT AND REAR KICK PLATES.

**CAPACITY**

THIS CABINET FRAMEWORK WILL ALLOW THE MOUNTING OF SHELVES WITH A MAXIMUM WIDTH OF 24.50", A DEPTH OF 23.00", AND A HEIGHT OF 60.00."

THIS FRAMEWORK ALSO ALLOWS FOR THE MOUNTING OF A MODULAR FUSE/FILTER UNIT (J5D003FJ-()).

LUCENT TECHNOLOGIES INC. - PROPRIETARY USE PURSUANT TO COMPANY INSTRUCTIONS		
7R/E PACKET LOCAL SOLUTIONS APPLICATION SCHEMATIC		DWG SIZE
		C2
LUCENT TECHNOLOGIES, INC.		ISSUE
		1
SD-5D564-02		SHEET B1

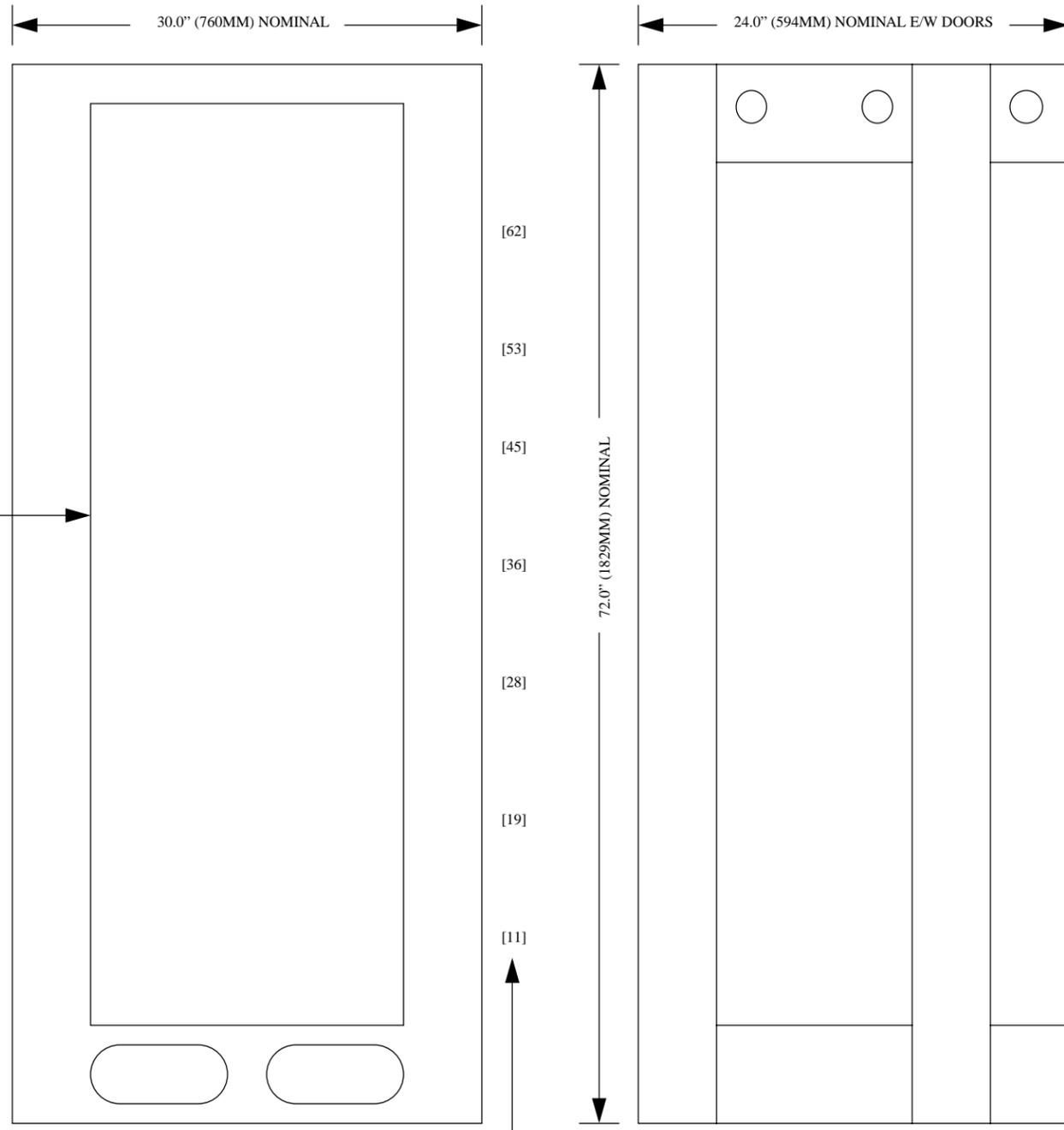
0 1 2 3 4 5 6 7 8 9

0 1 2 3 4 5 6 7 8 9

A  
B  
C  
D  
E  
F  
G  
H

# AS 1A

IWG2  
(FAC CABINET W/O MFFU POSITION)  
ED7R011-70



### DESCRIPTION

THIS IS THE STEEL FRAMEWORK WHICH HOUSES 7R/E PLS HARDWARE.

IT IS TO BE EQUIPPED WITH UNIT MOUNTING GUIDES, FRONT AND REAR INDICATOR STRIPS (ED7R011-70-()), AND FRONT AND REAR KICK PLATES

### CAPACITY

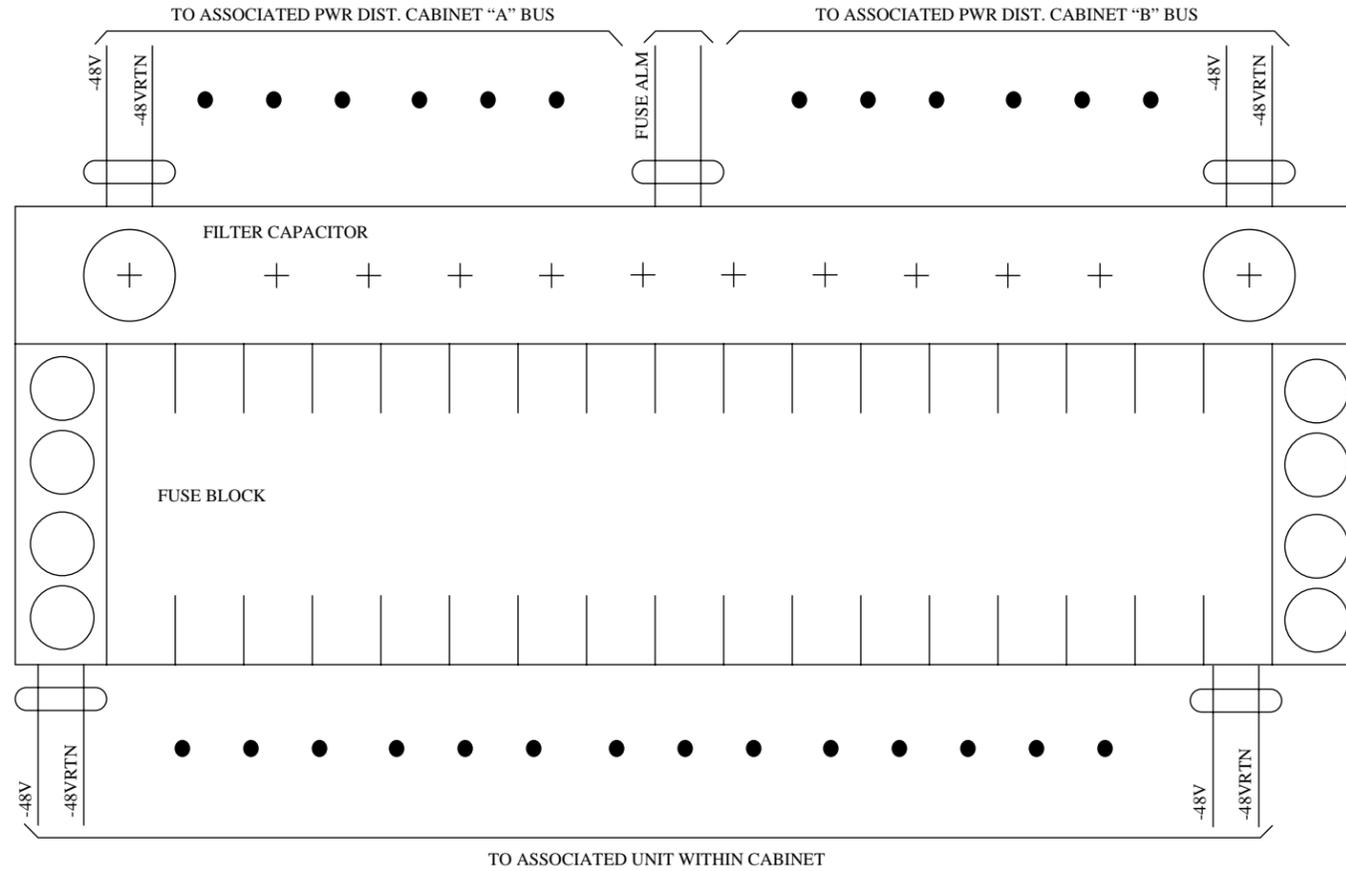
THIS CABINET FRAMEWORK WILL ALLOW THE MOUNTING OF SHELVES WITH A MAXIMUM WIDTH OF 24.50", A DEPTH OF 23.00", AND A HEIGHT OF 63.89."

LUCENT TECHNOLOGIES INC. - PROPRIETARY USE PURSUANT TO COMPANY INSTRUCTIONS		
7R/E PACKET LOCAL SOLUTIONS APPLICATION SCHEMATIC		DWG SIZE C2
		ISSUE 1
LUCENT TECHNOLOGIES, INC.	SD-5D564-02	SHEET B1A

0 1 2 3 4 5 6 7 8 9

# AS 2

MODULAR FUSE FILTER UNIT (MFFU)  
SD-5D190-01  
J5D003FJ(-)



### DESCRIPTION

THIS MFFU IS A SINGLE SHELF WHICH PROVIDES FUSES AND FILTER CAPACITORS AT -48V TO POWER VARIOUS UNITS IN A 7R/E PLS CABINET.

### CAPACITY

THIS MFFU PROVIDES SPACE FOR:  
 \* (12) FEEDER FILTER CAPACITORS  
 \* (18) FUSE BLOCK POSITIONS AND/OR ALARM CARD HOUSINGS (TOTALING 19 SPACES)  
 \* EACH FUSE BLOCK HAS FOUR FUSE POSITIONS  
 \* EACH ALARM CARD HOUSING HAS SPACE FOR (2) ALARM CARDS OR (1) TEL AND TTY JACK PANEL

EACH UNIT IS ENGINEERABLE TO SATISFY THE VARYING NEEDS OF 7R/E PLS CABINETS.

### FUSING REQUIREMENTS

THE MFFU IS FUSED AT THE POWER DISTRIBUTION CABINET (GPDP) AS REQD.

### SPECIFIC MOUNTING REQUIREMENTS

THIS UNIT MOUNTS IN THE UPPER MOST LOCATION IN A CABINET (EQL 068).

LUCENT TECHNOLOGIES INC. - PROPRIETARY USE PURSUANT TO COMPANY INSTRUCTIONS		
7R/E PACKET LOCAL SOLUTIONS APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	1
LUCENT TECHNOLOGIES, INC.	SD-5D564-02	SHEET B2

# AS 3

ETS 1 WITH MODEM  
OLP CABINET

**NOTE:**

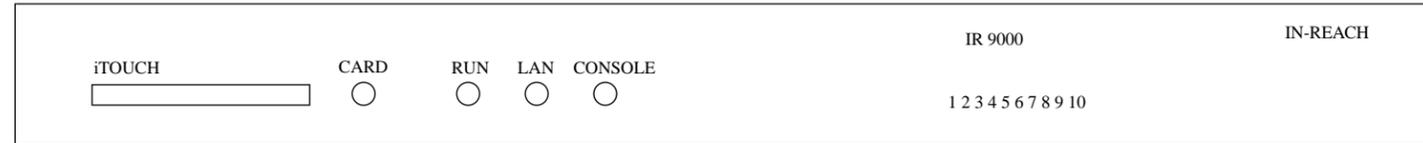
PORTS ARE SPECIFICALLY CONFIGURED PER ASSIGNED INTERFACES.

**DESCRIPTION**

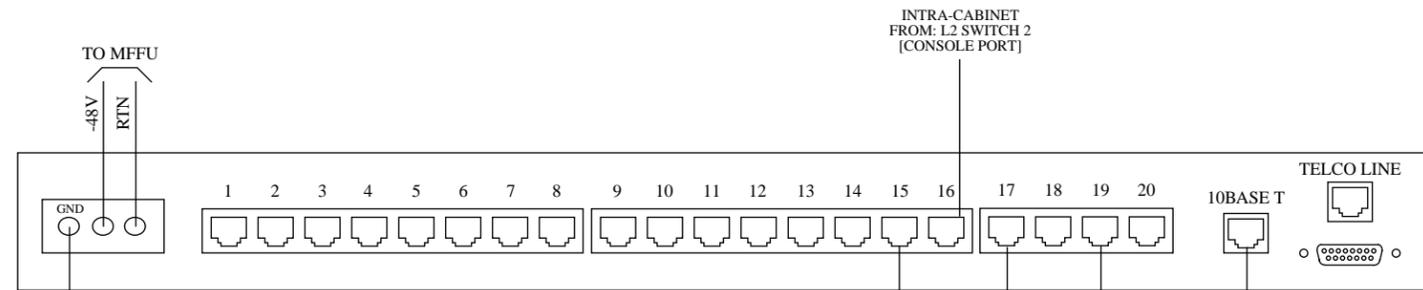
THE ETS IS 1.75" (4.45 CM) HIGH BY 19" (48.6 CM) WIDE BY 11.7" (29.71 CM) DEEP.

**CAPACITY**

THE ETS WITH AN INTERNAL MODEM HAS 20 SOFTWARE CONFIGURABLE PORTS (CONSOLE/ALARM/SENSOR) A V.90 INTERNAL MODEM & 4MB FLASH.



FRONT



REAR

LUCENT TECHNOLOGIES INC. - PROPRIETARY USE PURSUANT TO COMPANY INSTRUCTIONS		
7R/E PACKET LOCAL SOLUTIONS APPLICATION SCHEMATIC		DWG SIZE
		C2
LUCENT TECHNOLOGIES, INC.		ISSUE
		1
SD-5D564-02		SHEET B3

0 1 2 3 4 5 6 7 8 9

# AS 3A

ETS 2 WITH MODEM  
OLP CABINET

**NOTE:**

PORTS ARE SPECIFICALLY CONFIGURED PER ASSIGNED INTERFACES.

**DESCRIPTION**

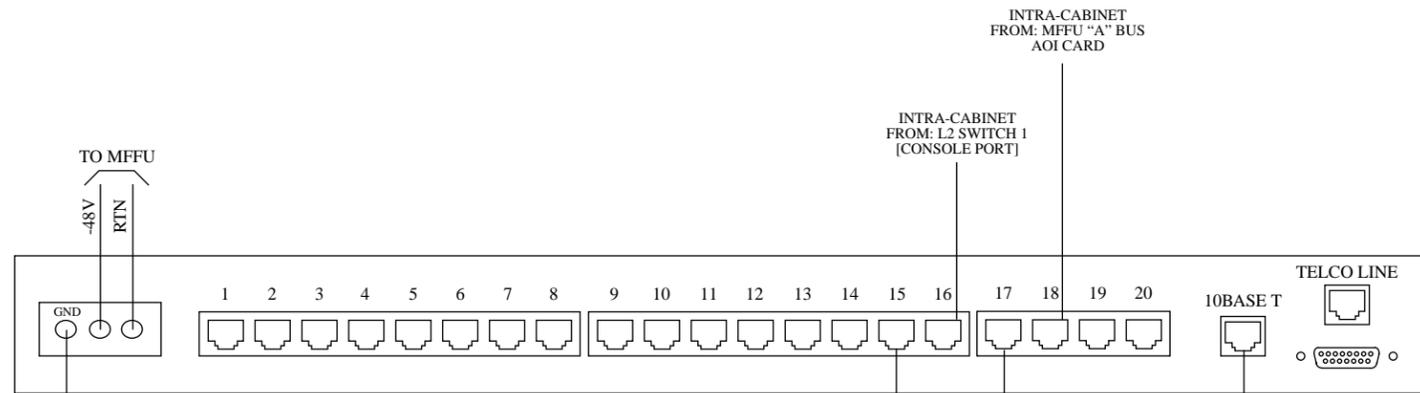
THE ETS IS 1.75" (4.45 CM) HIGH BY 19" (48.6 CM) WIDE BY 11.7" (29.71 CM) DEEP.

**CAPACITY**

THE ETS WITH AN INTERNAL MODEM HAS 20 SOFTWARE CONFIGURABLE PORTS (CONSOLE/ALARM/SENSOR) A V.90 INTERNAL MODEM & 4MB FLASH.



FRONT



REAR

LUCENT TECHNOLOGIES INC. - PROPRIETARY USE PURSUANT TO COMPANY INSTRUCTIONS		
7R/E PACKET LOCAL SOLUTIONS APPLICATION SCHEMATIC		DWG SIZE C2
		ISSUE 1
LUCENT TECHNOLOGIES, INC.	SD-5D564-02	SHEET B3A

0 1 2 3 4 5 6 7 8 9

# AS 3B

ETS  
ATM3 CABINETS 00 & 01

**NOTE:**

PORTS ARE SPECIFICALLY CONFIGURED PER ASSIGNED INTERFACES.

DESCRIPTION

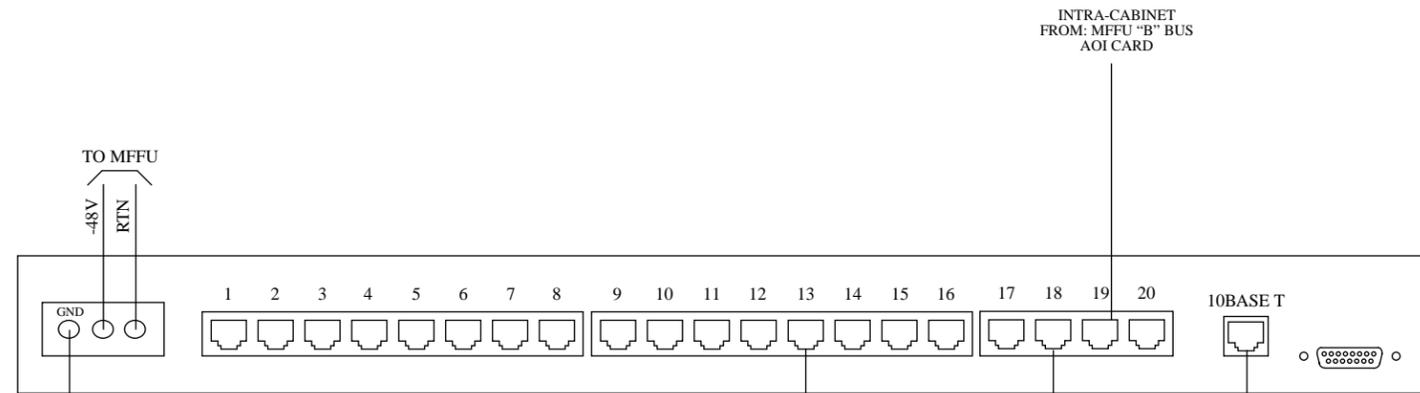
THE ETS IS 1.75" (4.45 CM) HIGH BY 19" (48.6 CM) WIDE BY 11.7" (29.71 CM) DEEP.

CAPACITY

THE ETS WITHOUT AN INTERNAL MODEM HAS 20 SOFTWARE CONFIGURABLE PORTS (CONSOLE/ALARM/SENSOR) WITH 4MB FLASH.



FRONT



REAR

LUCENT TECHNOLOGIES INC. - PROPRIETARY USE PURSUANT TO COMPANY INSTRUCTIONS		
7R/E PACKET LOCAL SOLUTIONS APPLICATION SCHEMATIC		DWG SIZE
		C2
LUCENT TECHNOLOGIES, INC.		ISSUE
		1
SD-5D564-02		SHEET B3B

# AS 3C

ETS  
IWG1 CABINET

**NOTE:**

PORTS ARE SPECIFICALLY CONFIGURED PER ASSIGNED INTERFACES.

**DESCRIPTION**

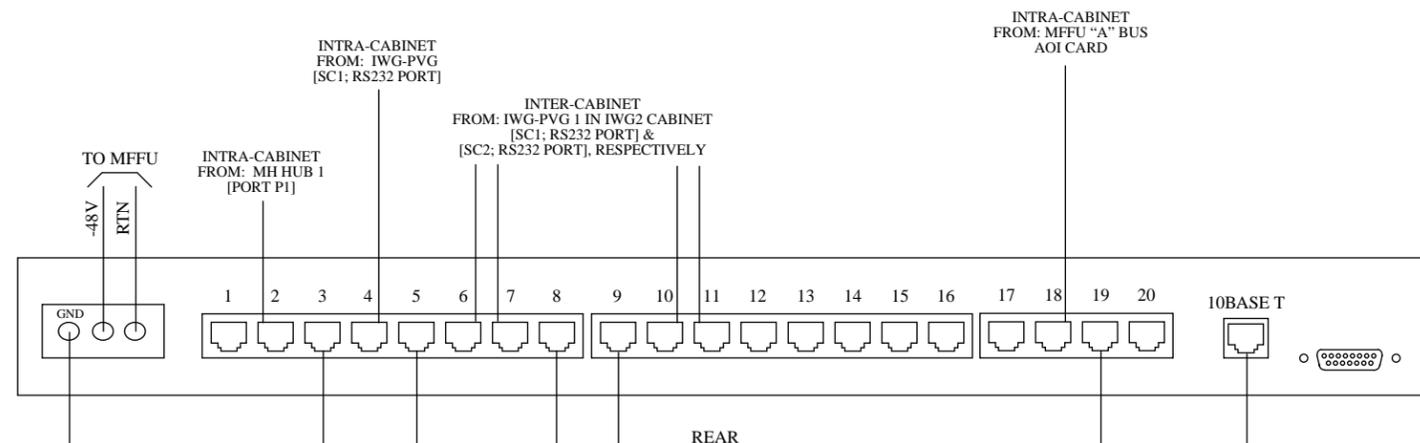
THE ETS IS 1.75" (4.45 CM) HIGH BY 19" (48.6 CM) WIDE BY 11.7" (29.71 CM) DEEP.

**CAPACITY**

THE ETS WITHOUT AN INTERNAL MODEM HAS 20 SOFTWARE CONFIGURABLE PORTS (CONSOLE/ALARM/SENSOR) WITH 4MB FLASH.



FRONT

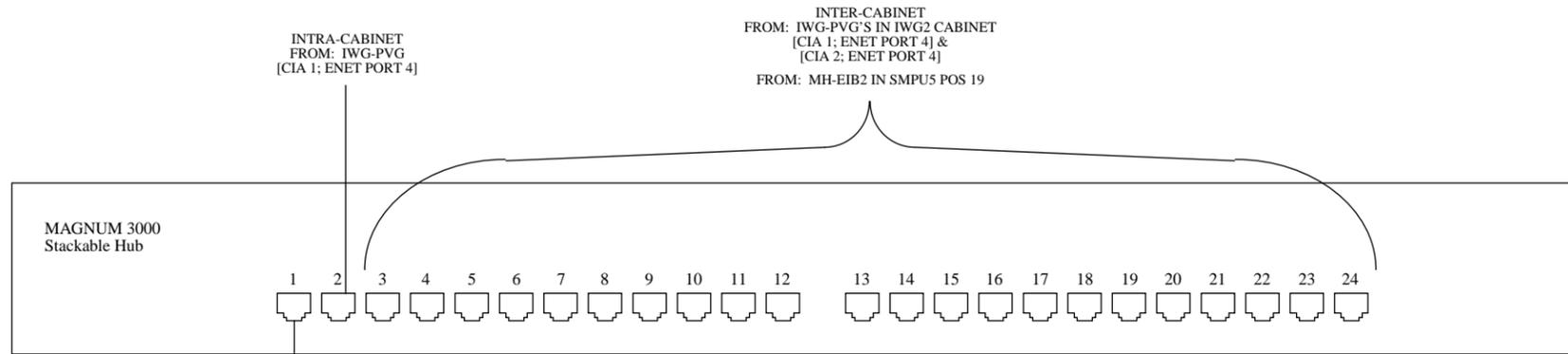


REAR

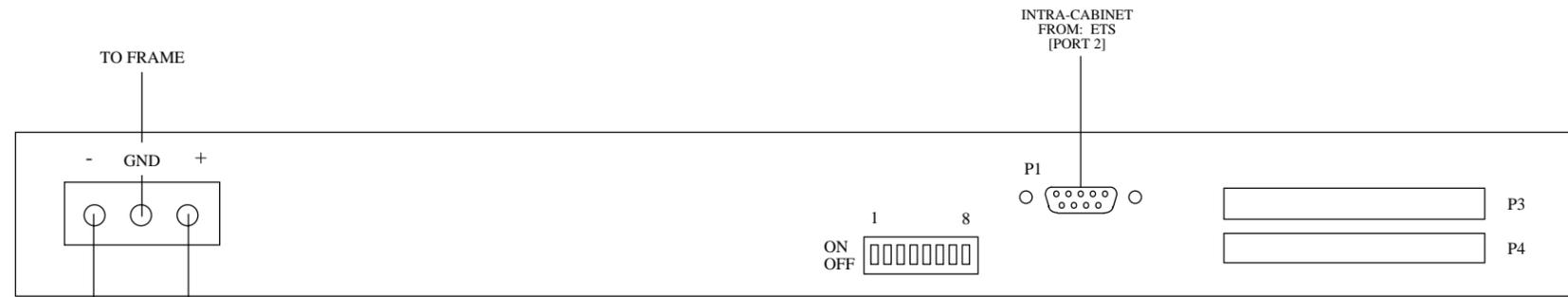
LUCENT TECHNOLOGIES INC. - PROPRIETARY USE PURSUANT TO COMPANY INSTRUCTIONS		
7R/E PACKET LOCAL SOLUTIONS APPLICATION SCHEMATIC		DWG SIZE
		C2
LUCENT TECHNOLOGIES, INC.		ISSUE
		1
SD-5D564-02		SHEET B3C

# AS 4

MH HUB 1  
IWG1 CABINET



FRONT



REAR

**DESCRIPTION**

THE MAGNUM 3024 HUB IS 1.75" (4.45 CM) HIGH BY 17" (43.2 CM) WIDE BY 9" (22.9 CM) DEEP.

**CAPACITY**

THE MH HUB PROVIDES 24 10BASE T PORTS. THE HUB IS EQUIPPED WITH AN SNMP EMBEDDED AGENT BOARD.

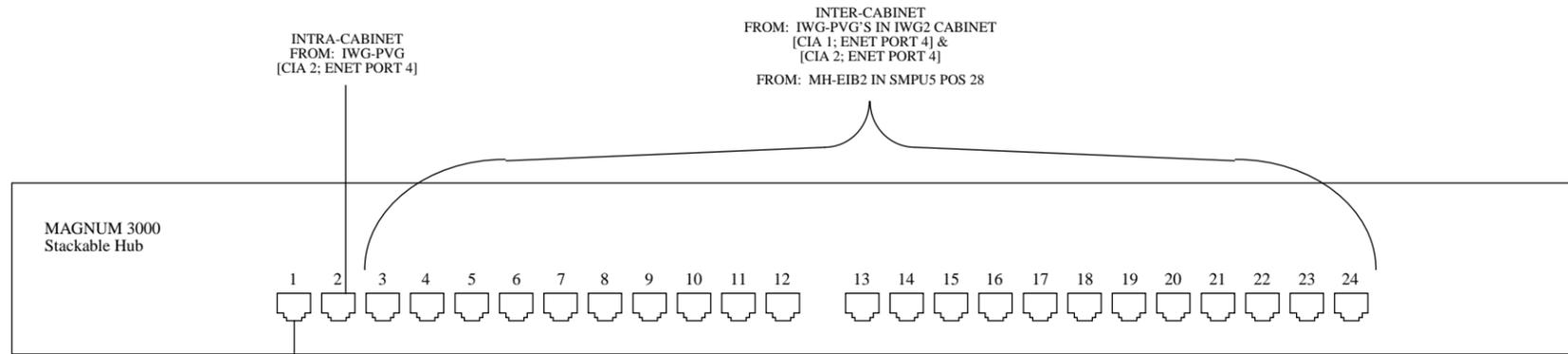
**SUPPLEMENTAL INFORMATION**

THE 8 POSITION DIP SWITCH ON THE REAR OF THE UNIT HAS A FACTORY DEFAULT ADDRESS SWITCH SETTING OF SWITCH 1 ON AND SWITCHES 2 THRU 6 OFF. SWITCHES 7 & 8 ARE NOT USED.

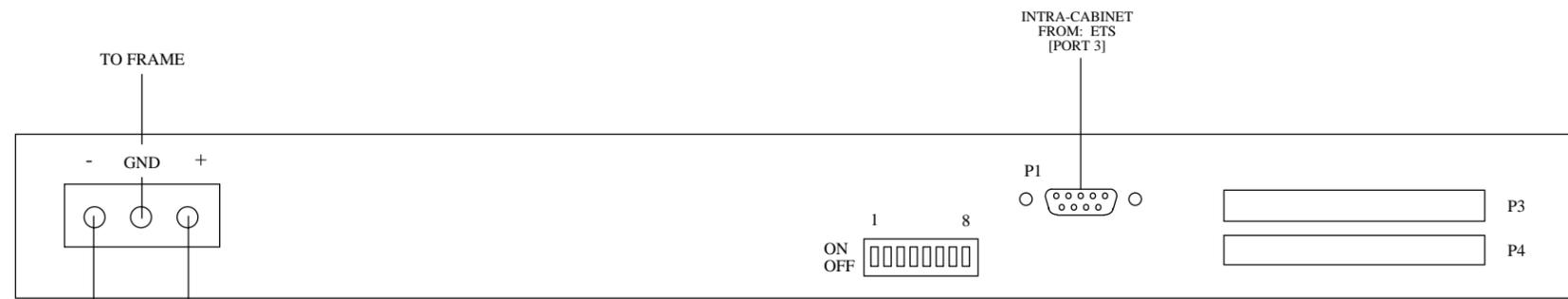
LUCENT TECHNOLOGIES INC. - PROPRIETARY USE PURSUANT TO COMPANY INSTRUCTIONS		
7R/E PACKET LOCAL SOLUTIONS APPLICATION SCHEMATIC		DWG SIZE
		C2
LUCENT TECHNOLOGIES, INC.		ISSUE
		1
SD-5D564-02		SHEET B4

# AS 4A

MH HUB 2  
IWG1 CABINET



FRONT



REAR

**DESCRIPTION**

THE MAGNUM 3024 HUB IS 1.75" (4.45 CM) HIGH BY 17" (43.2 CM) WIDE BY 9" (22.9 CM) DEEP.

**CAPACITY**

THE MH HUB PROVIDES 24 10BASE T PORTS. THE HUB IS EQUIPPED WITH AN SNMP EMBEDDED AGENT BOARD.

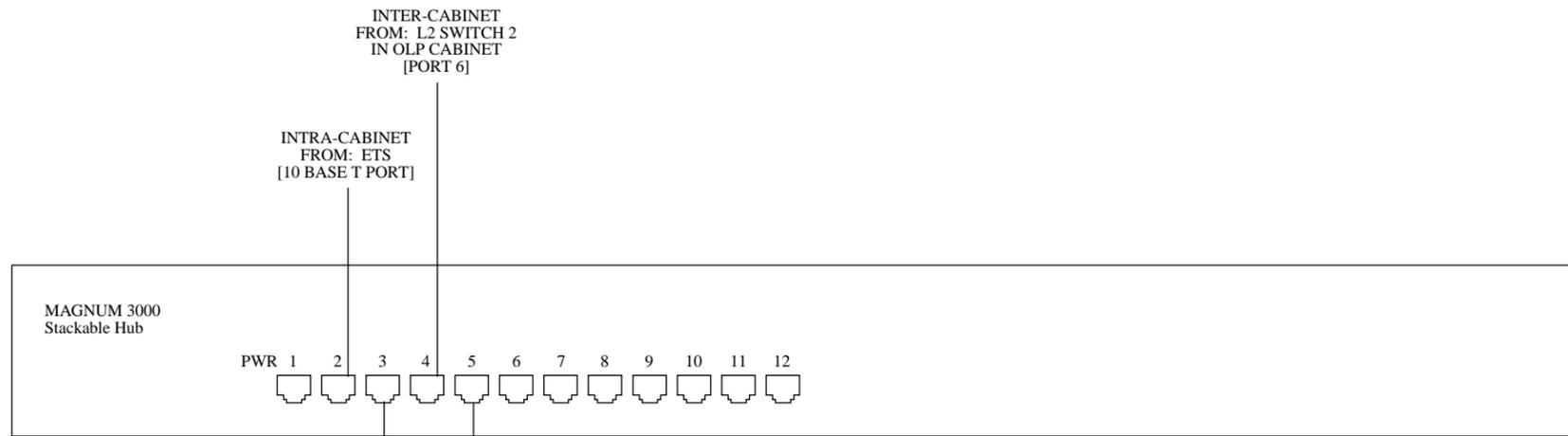
**SUPPLEMENTAL INFORMATION**

THE 8 POSITION DIP SWITCH ON THE REAR OF THE UNIT HAS A FACTORY DEFAULT ADDRESS SWITCH SETTING OF SWITCH 1 ON AND SWITCHES 2 THRU 6 OFF. SWITCHES 7 & 8 ARE NOT USED.

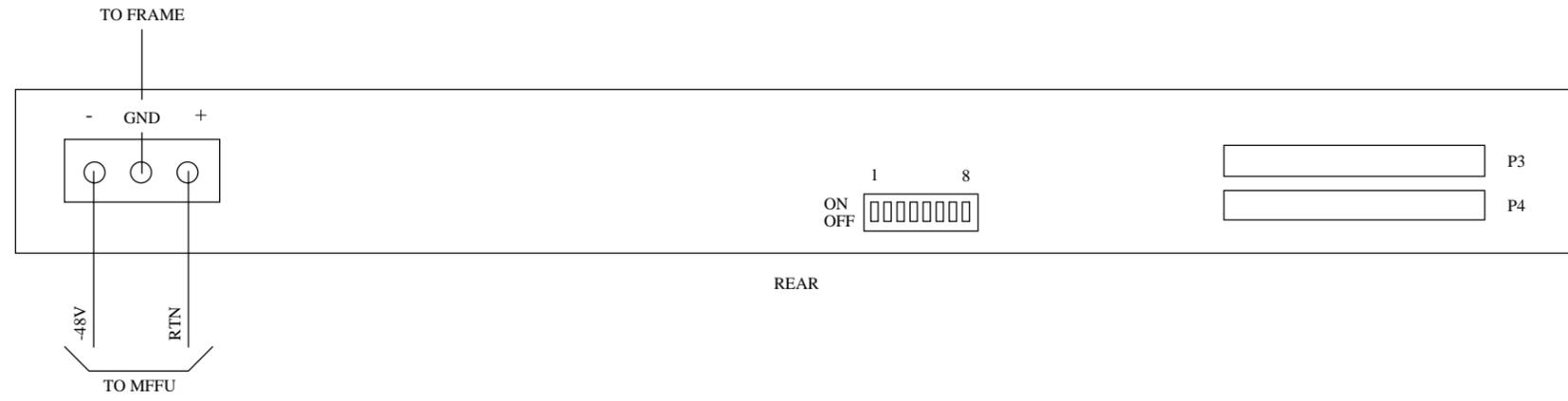
LUCENT TECHNOLOGIES INC. - PROPRIETARY USE PURSUANT TO COMPANY INSTRUCTIONS		
7R/E PACKET LOCAL SOLUTIONS APPLICATION SCHEMATIC		DWG SIZE
		C2
LUCENT TECHNOLOGIES, INC.		ISSUE
		1
SD-5D564-02		SHEET B4A

# AS 5

EM HUB  
ATM3 CABINET 00



FRONT



REAR

DESCRIPTION

THE MAGNUM 3012 HUB IS 1.75" (4.45 CM) HIGH BY 17" (43.2 CM) WIDE BY 9" (22.9 CM) DEEP.

CAPACITY

THE EM HUB PROVIDES 12 10BASE T PORTS.

SUPPLEMENTAL INFORMATION

BECAUSE THE EM HUB IS AN UNMANAGED HUB, THE SETTINGS ON THE 8 POSITION DIP SWITCH ON THE REAR OF THE UNIT DO NOT MATTER.

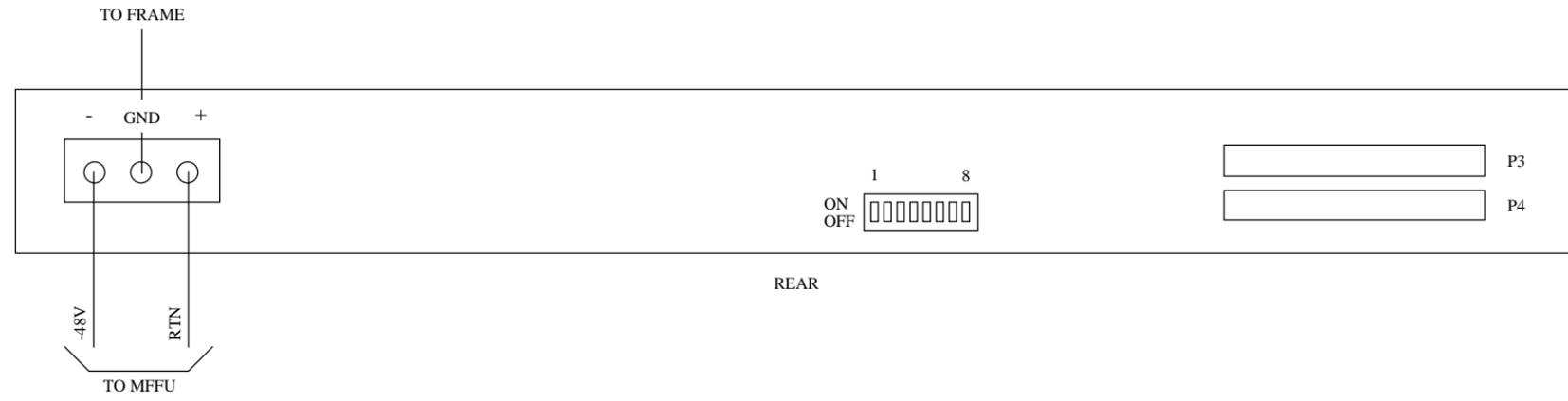
LUCENT TECHNOLOGIES INC. - PROPRIETARY USE PURSUANT TO COMPANY INSTRUCTIONS		
7R/E PACKET LOCAL SOLUTIONS APPLICATION SCHEMATIC		DWG SIZE
		C2
LUCENT TECHNOLOGIES, INC.		ISSUE
		1
SD-5D564-02		SHEET B5

# AS 5A

EM HUB  
ATM3 CABINET 01



FRONT



REAR

DESCRIPTION

THE MAGNUM 3012 HUB IS 1.75" (4.45 CM) HIGH BY 17" (43.2 CM) WIDE BY 9" (22.9 CM) DEEP.

CAPACITY

THE EM HUB PROVIDES 12 10BASE T PORTS.

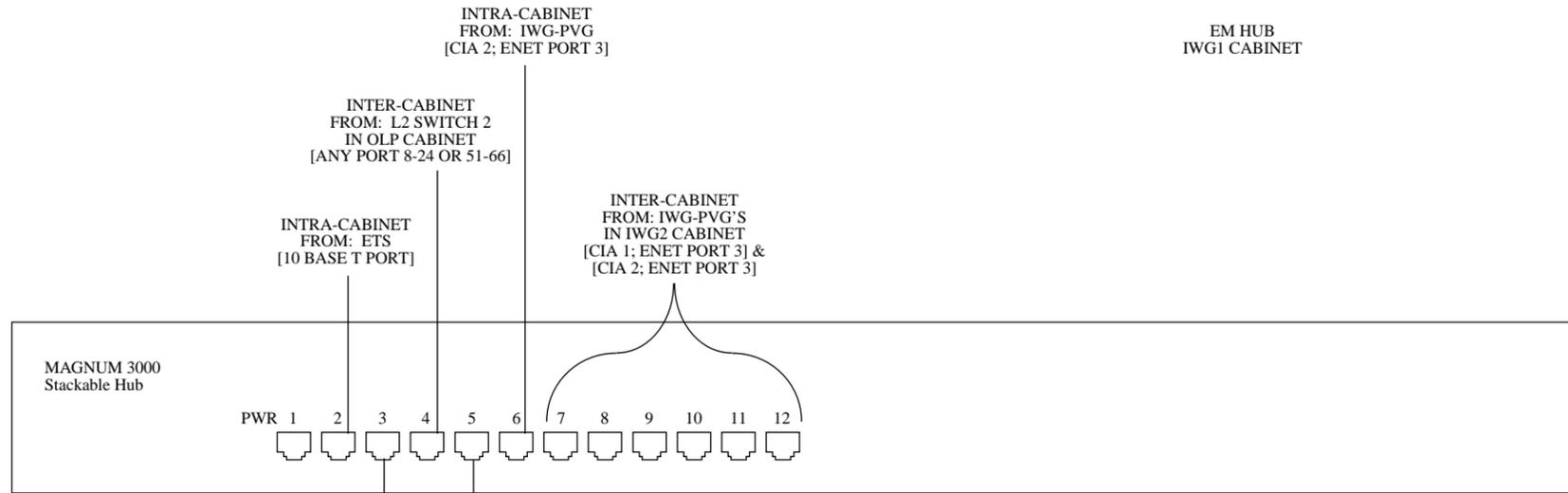
SUPPLEMENTAL INFORMATION

BECAUSE THE EM HUB IS AN UNMANAGED HUB, THE SETTINGS ON THE 8 POSITION DIP SWITCH ON THE REAR OF THE UNIT DO NOT MATTER.

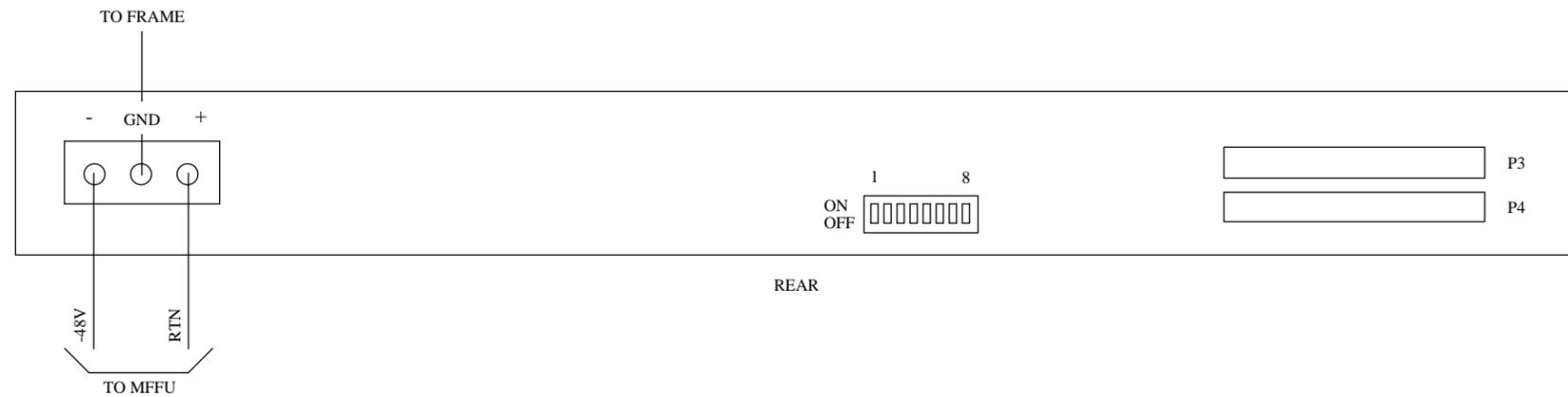
LUCENT TECHNOLOGIES INC. - PROPRIETARY USE PURSUANT TO COMPANY INSTRUCTIONS		
7R/E PACKET LOCAL SOLUTIONS APPLICATION SCHEMATIC		DWG SIZE
		C2
LUCENT TECHNOLOGIES, INC.		ISSUE
		1
SD-5D564-02		SHEET B5A

# AS 5B

EM HUB  
IWG1 CABINET



FRONT



REAR

DESCRIPTION

THE MAGNUM 3012 HUB IS 1.75" (4.45 CM) HIGH BY 17" (43.2 CM) WIDE BY 9" (22.9 CM) DEEP.

CAPACITY

THE EM HUB PROVIDES 12 10BASE T PORTS.

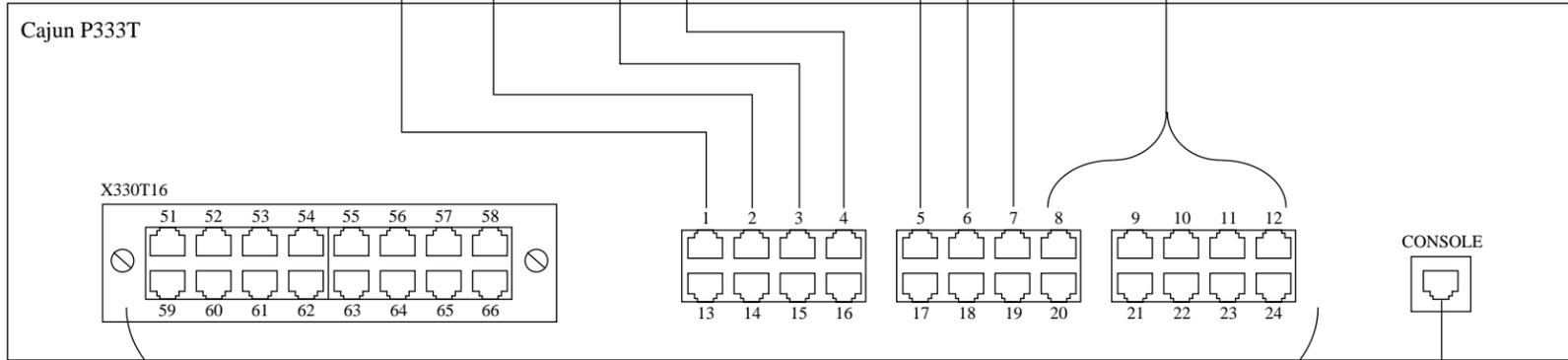
SUPPLEMENTAL INFORMATION

BECAUSE THE EM HUB IS AN UNMANAGED HUB, THE SETTINGS ON THE 8 POSITION DIP SWITCH ON THE REAR OF THE UNIT DO NOT MATTER.

LUCENT TECHNOLOGIES INC. - PROPRIETARY USE PURSUANT TO COMPANY INSTRUCTIONS		
7R/E PACKET LOCAL SOLUTIONS APPLICATION SCHEMATIC		DWG SIZE
		C2
LUCENT TECHNOLOGIES, INC.		ISSUE
		1
SD-5D564-02		SHEET B5B

# AS 6

L2 SWITCH 1 (CAJUN P333T)  
ED5D894-30  
OLP CABINET



**DESCRIPTION**

THE L2 SWITCH IS 3.5" (88 MM) HIGH BY 19" (482.6 MM) WIDE BY 17.7" (450 MM) DEEP.

**CAPACITY**

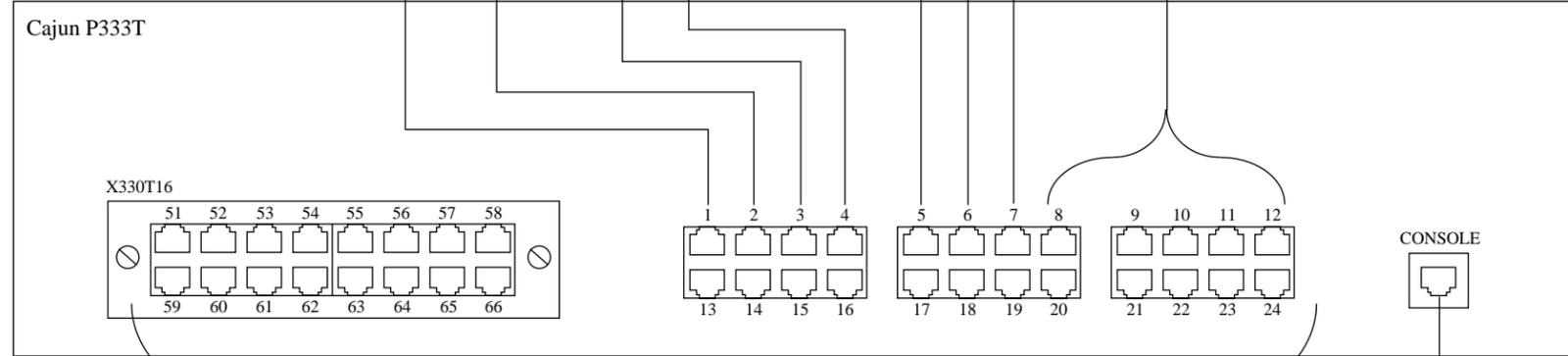
THE L2 SWITCH HAS 24 X 10/100 Mbps PORTS AND IS EQUIPPED WITH A 16 X 10/100 Mbps PORT EXPANSION SUB-MODULE.



LUCENT TECHNOLOGIES INC. - PROPRIETARY USE PURSUANT TO COMPANY INSTRUCTIONS		
7R/E PACKET LOCAL SOLUTIONS APPLICATION SCHEMATIC		DWG SIZE
		C2
LUCENT TECHNOLOGIES, INC.		ISSUE
		1
SD-5D564-02		SHEET B6

# AS 6A

L2 SWITCH 2 (CAJUN P333T)  
ED5D894-30  
OLP CABINET

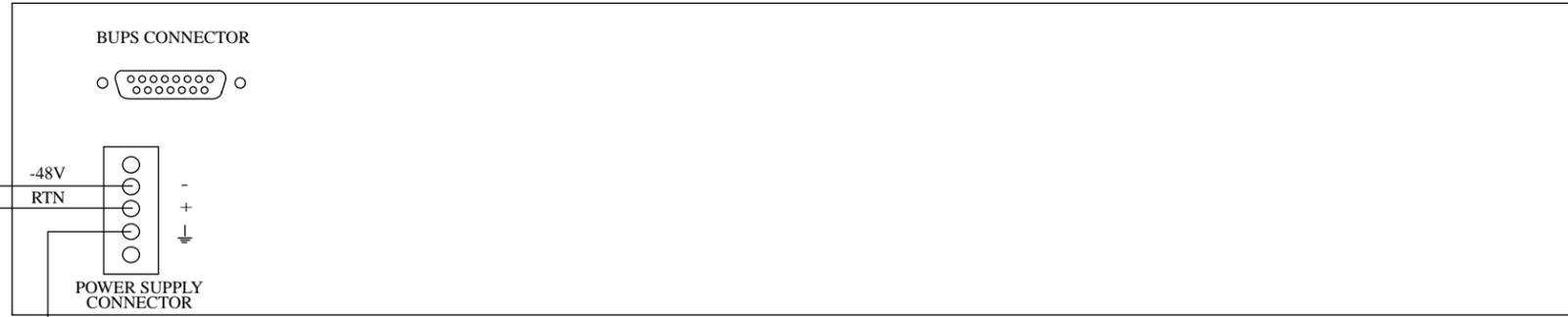


**DESCRIPTION**

THE L2 SWITCH IS 3.5" (88 MM) HIGH BY 19" (482.6 MM) WIDE BY 17.7" (450 MM) DEEP.

**CAPACITY**

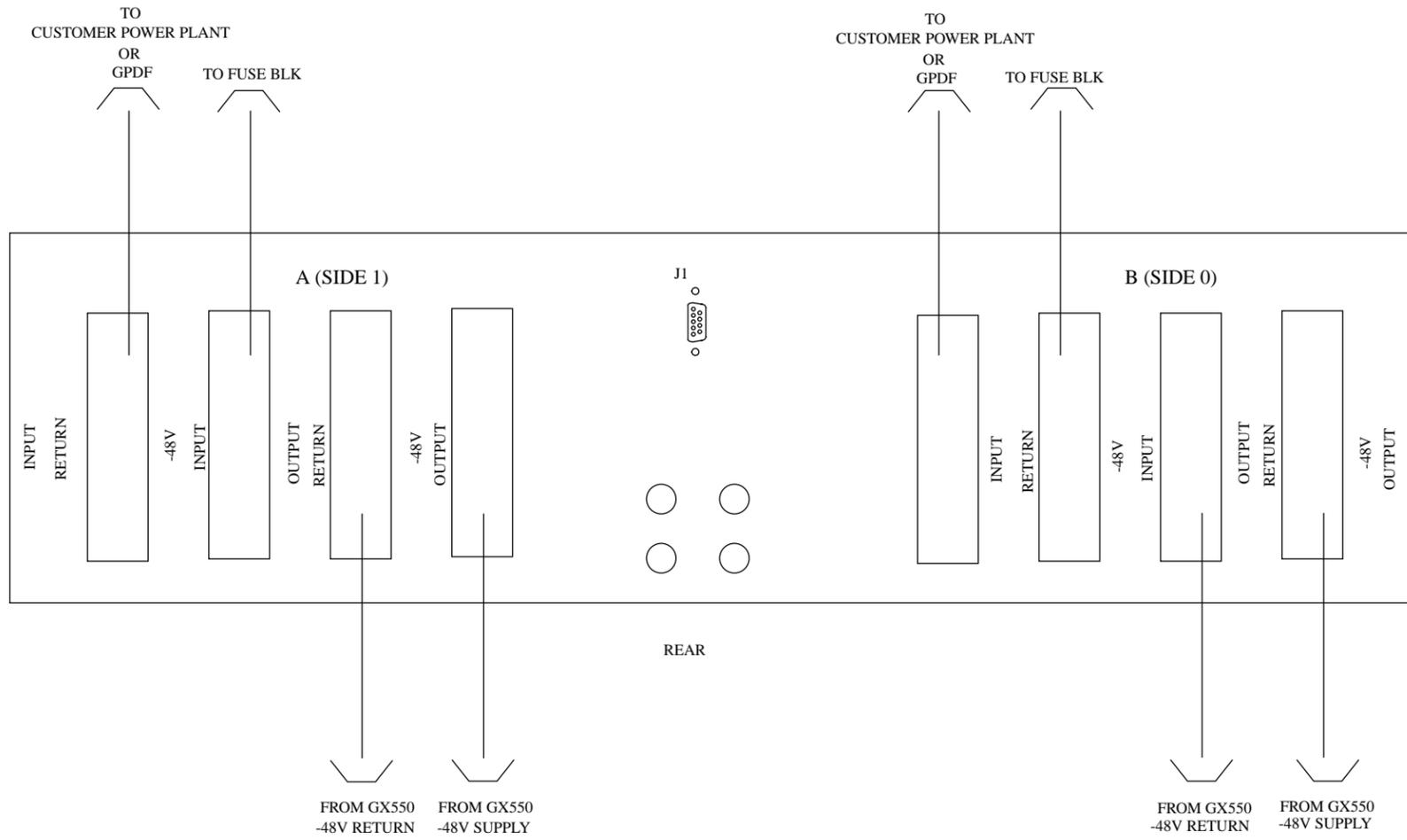
THE L2 SWITCH HAS 24 X 10/100 Mbps PORTS AND IS EQUIPPED WITH A 16 X 10/100 Mbps PORT EXPANSION SUB-MODULE.



LUCENT TECHNOLOGIES INC. - PROPRIETARY USE PURSUANT TO COMPANY INSTRUCTIONS		
7R/E PACKET LOCAL SOLUTIONS APPLICATION SCHEMATIC		
DWG SIZE C2	ISSUE 1	
LUCENT TECHNOLOGIES, INC.	SD-5D564-02	SHEET B6A

# AS 7

DCPPU  
ATM3 CABINET



### DESCRIPTION

THE DCPPU PROVIDES THE GX550 SWITCH WITH ADDITIONAL PROTECTION FROM VOLTAGE TRANSIENTS WHEN THE SWITCH IS CONNECTED TO A DC POWER SOURCE.

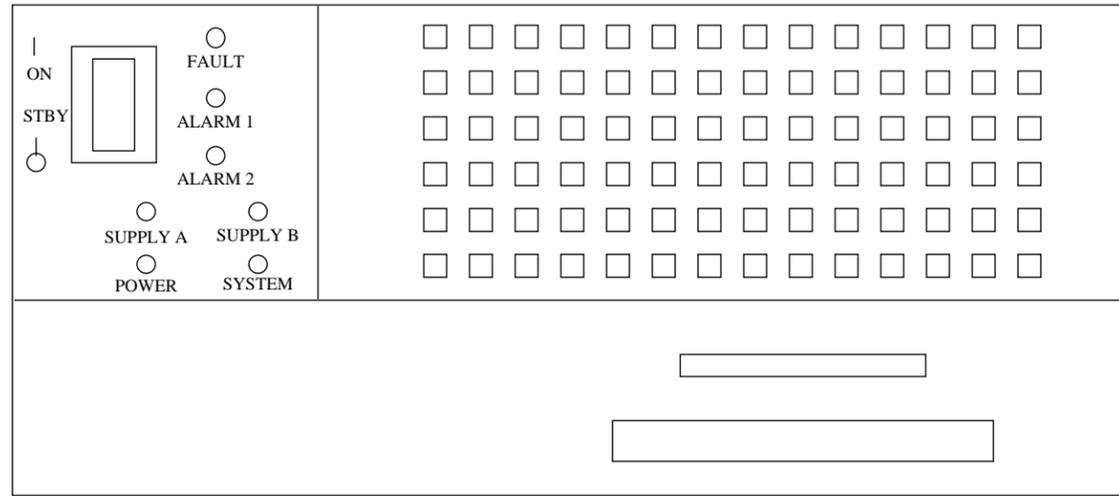
### CAPACITY

THE DCPPU HAS THE FOLLOWING FEATURES:  
 RETURN-LEAD DIODE ISOLATION BETWEEN 48V RETURN "A" AND 48V RETURN "B" TO PREVENT CIRCULATING CURRENTS OTHERWISE CAUSED BY UNBALANCED LOADING OR WIRING BETWEEN A AND B FEEDS.  
 ISOLATION FROM FUSE-CLEARING TRANSIENT EVENTS AND OTHER TRANSIENTS THAT MAY OCCUR EXTERNALLY TO THE GX550 SWITCH.  
 ENERGY STORAGE, UP TO FIVE-MILLISECOND RIDE-THROUGH TIME FROM 48V INPUT DROPOUT (ALSO REFERRED TO AS A ZERO VOLTAGE TRANSIENT).  
 INPUT LINE FUSE TO SUPPLEMENT THE BRANCH CIRCUIT BREAKER FOR LINE-TO-LINE FAULTS IN EITHER THE GX550 SWITCH OR THE DCPPU.

LUCENT TECHNOLOGIES INC. - PROPRIETARY USE PURSUANT TO COMPANY INSTRUCTIONS		
7R/E PACKET LOCAL SOLUTIONS APPLICATION SCHEMATIC		DWG SIZE
		C2
LUCENT TECHNOLOGIES, INC.		ISSUE
		1
SD-5D564-02		SHEET B7

# AS 8

NETRA T 1400  
 ONELINK PROCESSOR 1  
 ED5D894-30  
 OLP CABINET



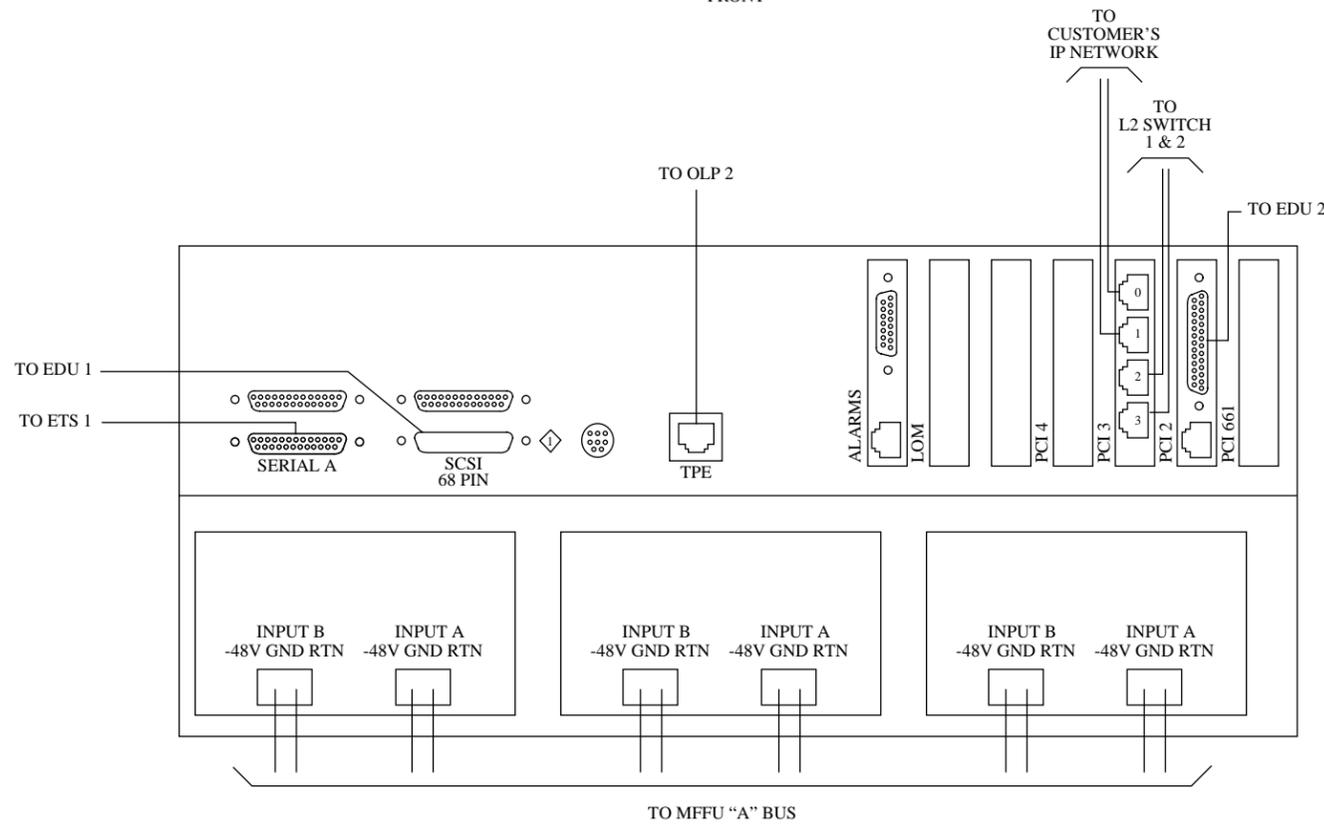
FRONT

**DESCRIPTION**

THE NETRA T 1400 IS 10.4" (26.4 CM) HIGH BY 17" (43.18 CM) WIDE BY 19.9" (50.47 CM) DEEP.

**CAPACITY**

THE NETRA T 1400 IS EQUIPPED WITH:  
 2 18GB INTERNAL DISKS,  
 3 64-BIT UltraSPARC-II PROCESSORS AT 440 MHz EACH,  
 2GB MEMORY,  
 32X CD-ROM,  
 12GB DDS3 INTERNAL TAPE DRIVE,  
 1 QUAD FAST ETHERNET CARD,  
 1 SunSwift PCI ADAPTER CARD, AND  
 1 ALARM CARD.

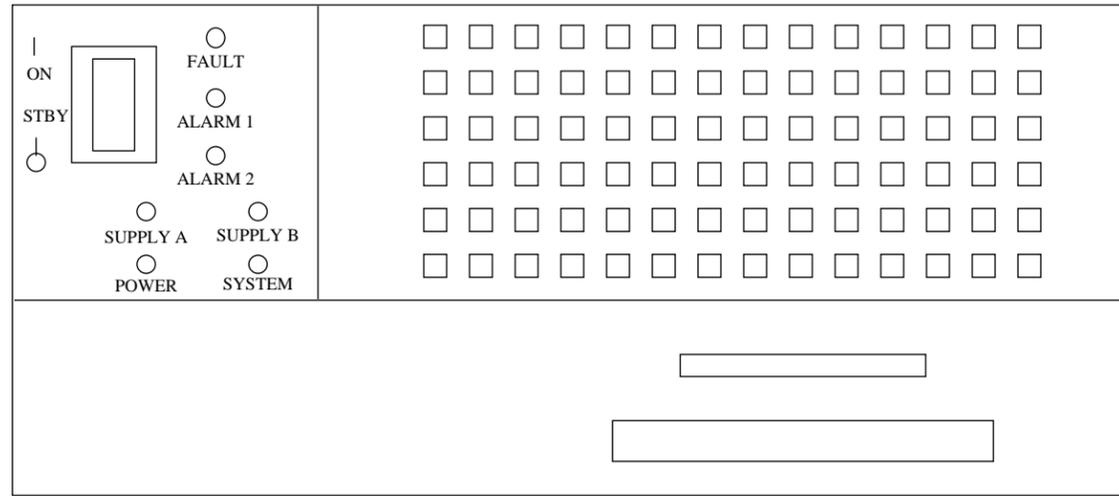


REAR

LUCENT TECHNOLOGIES INC. - PROPRIETARY USE PURSUANT TO COMPANY INSTRUCTIONS		
7R/E PACKET LOCAL SOLUTIONS APPLICATION SCHEMATIC		DWG SIZE
		C2
LUCENT TECHNOLOGIES, INC.		ISSUE
		1
SD-5D564-02		SHEET B8

# AS 8A

NETRA T 1400  
ONELINK PROCESSOR 2  
ED5D894-30  
OLP CABINET



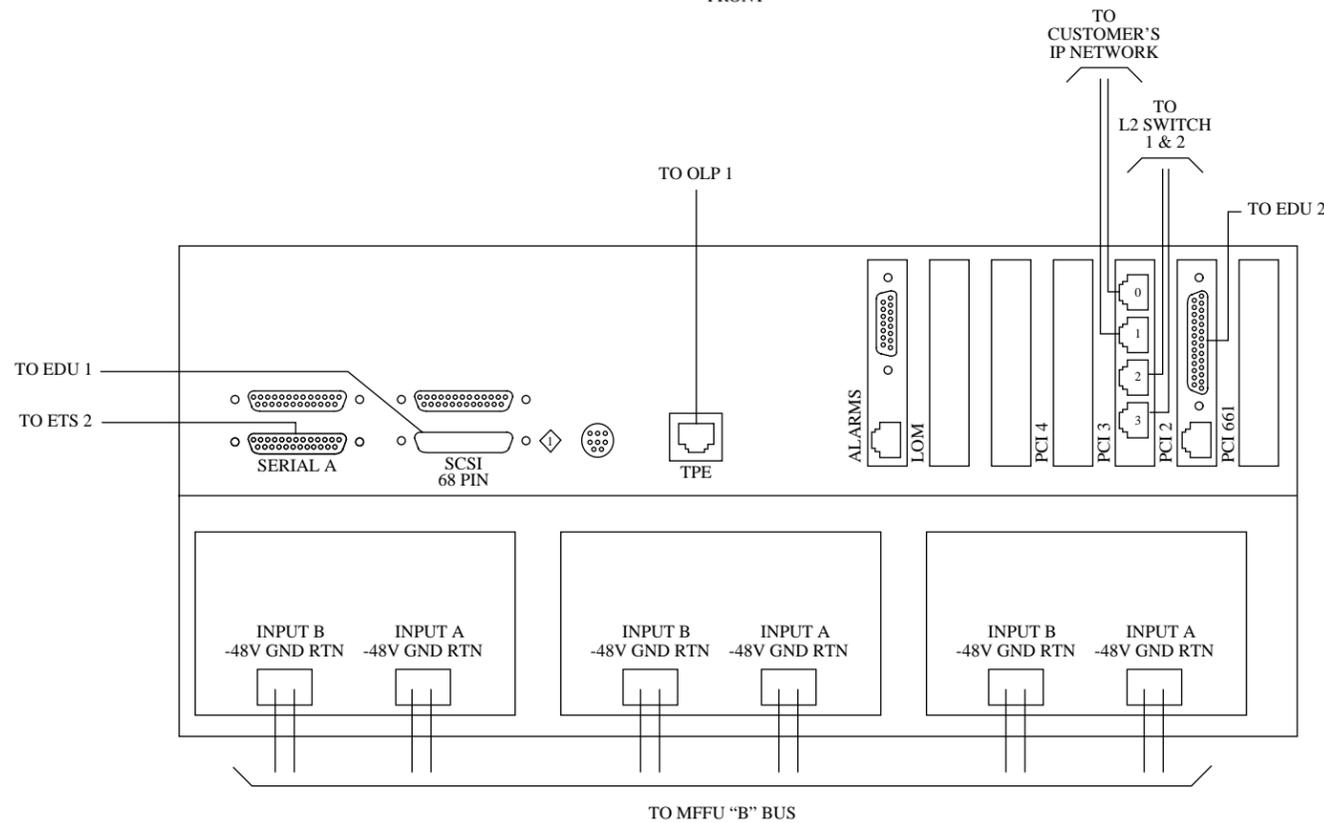
FRONT

### DESCRIPTION

THE NETRA T 1400 IS 10.4" (26.4 CM) HIGH BY 17" (43.18 CM) WIDE BY 19.9" (50.47 CM) DEEP.

### CAPACITY

THE NETRA T 1400 IS EQUIPPED WITH:  
2 18GB INTERNAL DISKS,  
3 64-BIT UltraSPARC-II PROCESSORS AT 440 MHz EACH,  
2GB MEMORY,  
32X CD-ROM,  
12GB DDS3 INTERNAL TAPE DRIVE,  
1 QUAD FAST ETHERNET CARD,  
1 SunSwift PCI ADAPTER CARD, AND  
1 ALARM CARD.

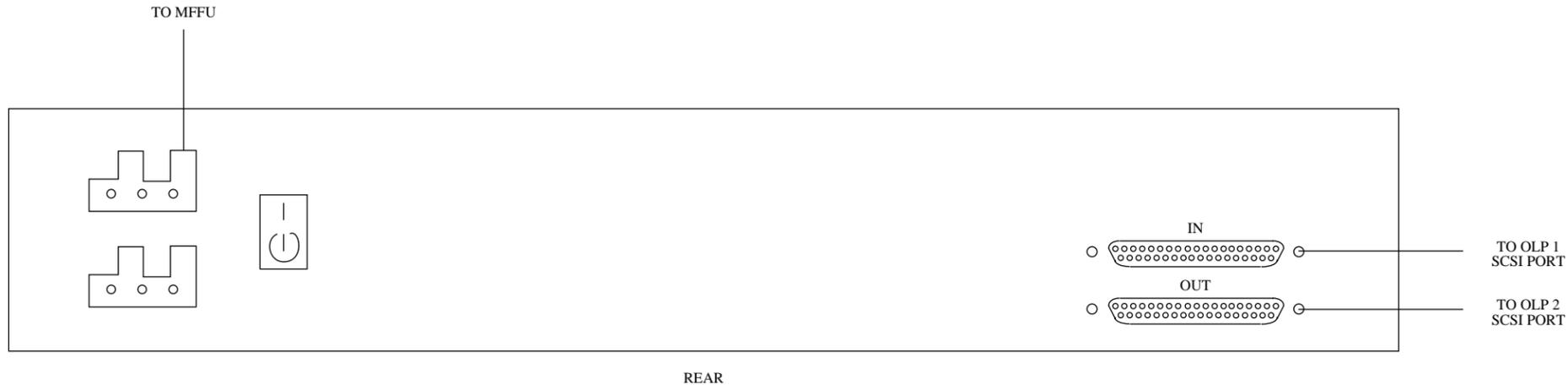


REAR

LUCENT TECHNOLOGIES INC. - PROPRIETARY USE PURSUANT TO COMPANY INSTRUCTIONS		
7R/E PACKET LOCAL SOLUTIONS APPLICATION SCHEMATIC		DWG SIZE C2
		ISSUE 1
LUCENT TECHNOLOGIES, INC.	SD-5D564-02	SHEET B8A

# AS 9

NETRA ST D130  
EXTERNAL DISK UNIT 1  
ED5D894-30  
OLP CABINET



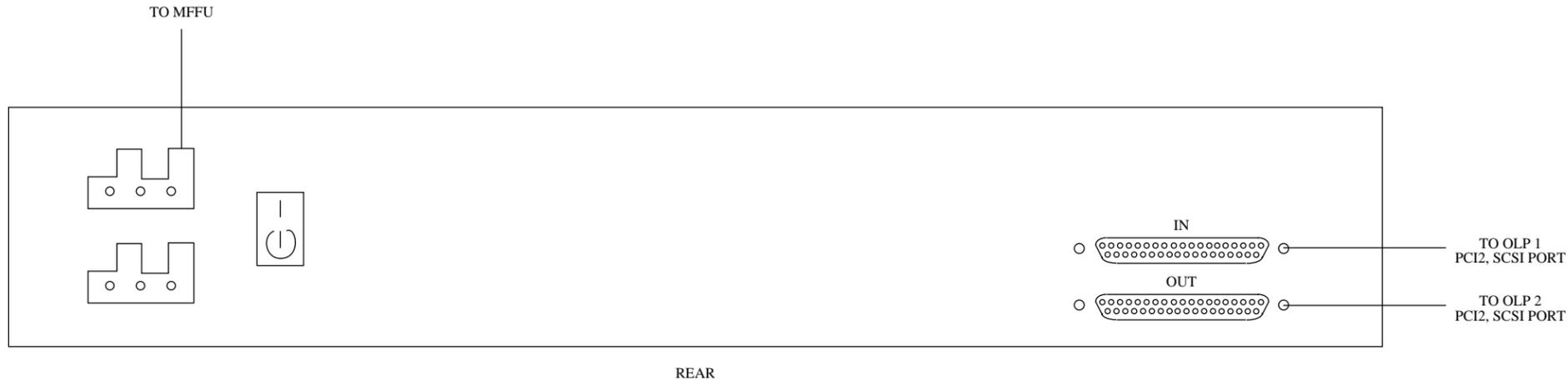
**DESCRIPTION**  
THE NETRA ST D130 IS 1.73" (4.4 CM) HIGH BY 17.2" (43.6 CM) WIDE BY 18.6" (47.2 CM) DEEP.

**CAPACITY**  
THE D130 SUPPORTS UP TO 3 18.2GB INTERNAL DISK DRIVES.

LUCENT TECHNOLOGIES INC. - PROPRIETARY USE PURSUANT TO COMPANY INSTRUCTIONS		
7R/E PACKET LOCAL SOLUTIONS APPLICATION SCHEMATIC		DWG SIZE
		C2
LUCENT TECHNOLOGIES, INC.		ISSUE
		1
SD-5D564-02		SHEET B9

# AS 9A

NETRA ST D130  
EXTERNAL DISK UNIT 2  
ED5D894-30  
OLP CABINET



DESCRIPTION

THE NETRA ST D130 IS 1.73" (4.4 CM) HIGH BY 17.2" (43.6 CM) WIDE BY 18.6" (47.2 CM) DEEP.

CAPACITY

THE D130 SUPPORTS UP TO 3 18.2GB INTERNAL DISK DRIVES.

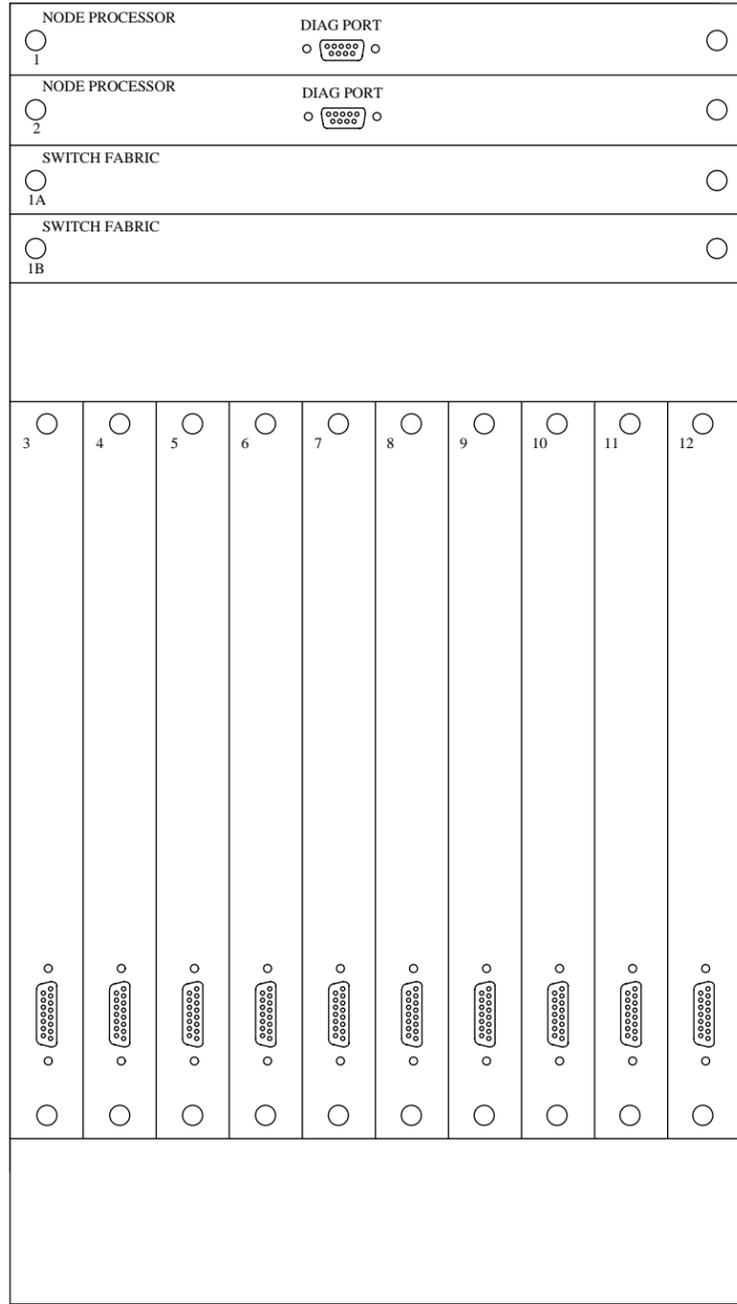
LUCENT TECHNOLOGIES INC. - PROPRIETARY USE PURSUANT TO COMPANY INSTRUCTIONS		
7R/E PACKET LOCAL SOLUTIONS APPLICATION SCHEMATIC		DWG SIZE
		C2
LUCENT TECHNOLOGIES, INC.		ISSUE
		1
SD-5D564-02		SHEET B9A

# AS 10

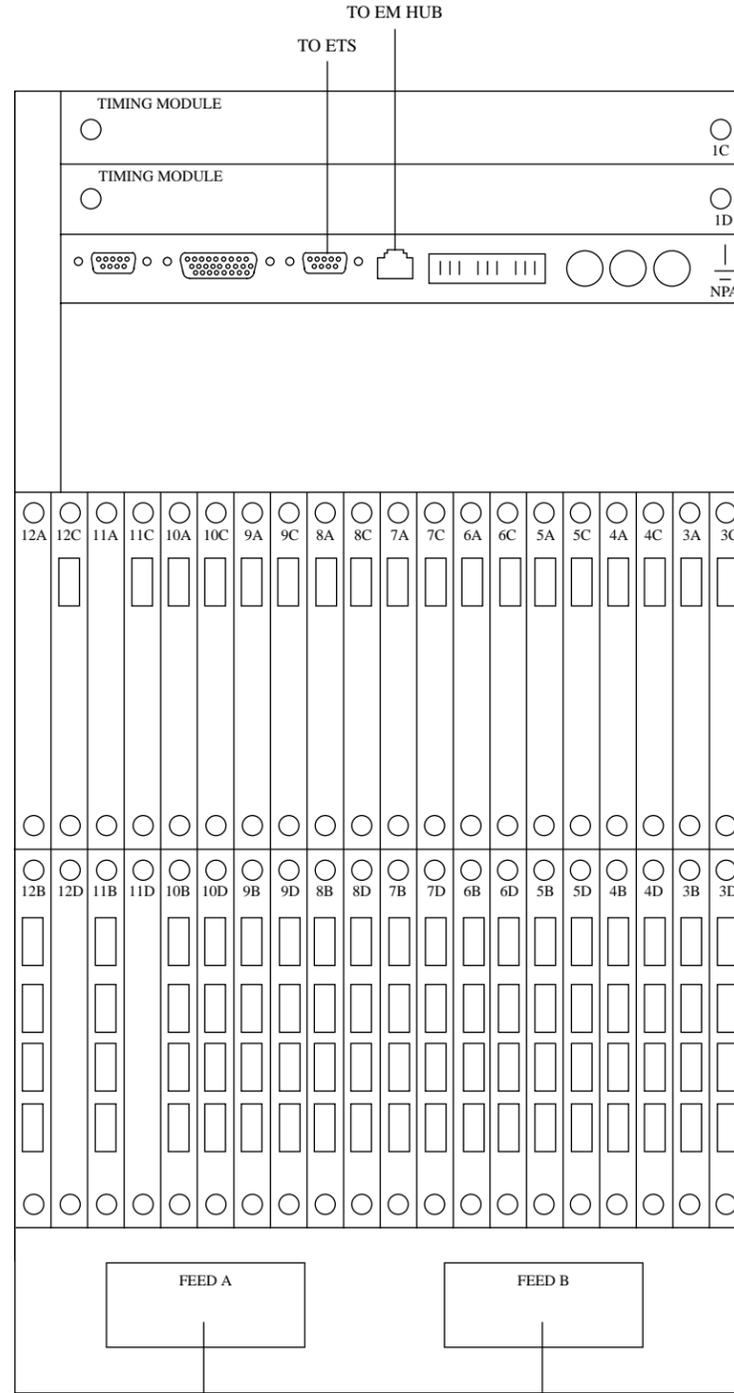
GX550 SWITCH  
ED5D891-30  
ATM3 CABINET

A  
B  
C  
D  
E  
F  
G  
H

A  
B  
C  
D  
E  
F  
G  
H



FRONT



TO DCPPU

REAR

**DESCRIPTION**

THE GX550 SWITCH IS 37.00" (939.8 MM) HIGH BY 19.06" (484.1 MM) WIDE BY 23.31" (592.1 MM) DEEP. A FULLY EQUIPPED GX550 WEIGHS 180 LBS MAX.

**CAPACITY**

THE GX550 SWITCH PROVIDES 25 GBPS NONBLOCKING ATM SWITCHING CAPACITY. INDUSTRY-LEADING PORT DENSITY IS EITHER 156 OC-3c/STM-1 OR 39 OC-12c/STM-4 IN ONE 25 GBPS PLATFORM.

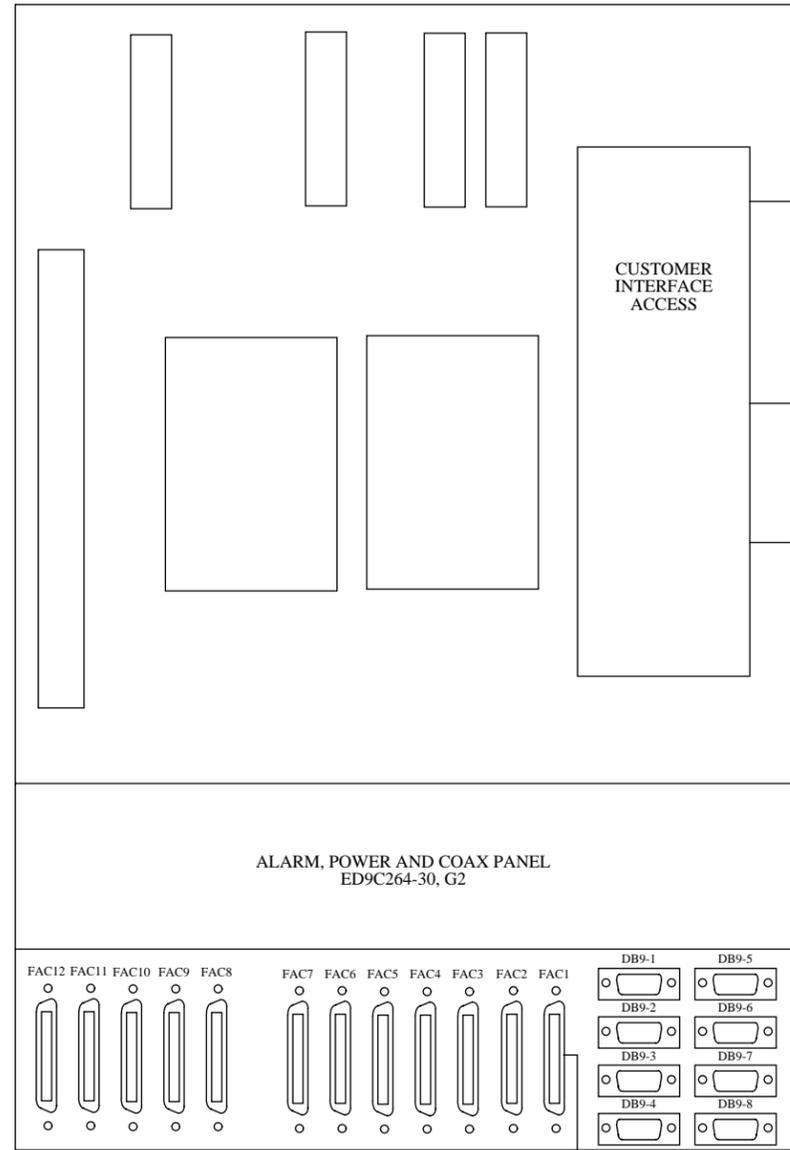
**FUSING REQUIREMENTS**

THE TWO POWER SUPPLY FEEDS TO A GX550 MUST BE RUN FROM THE SAME BUS, "A" OR "B," DEPENDING ON THE SYSTEM CONFIGURATION. THE GX550 -48V SUPPLY IS FUSED AT 100 AMPS AT THE CABINET. GPDP PDU PANEL WILL REQUIRE 175 AMP FUSES.

LUCENT TECHNOLOGIES INC. - PROPRIETARY USE PURSUANT TO COMPANY INSTRUCTIONS		
7R/E PACKET LOCAL SOLUTIONS APPLICATION SCHEMATIC		DWG SIZE
		C2
LUCENT TECHNOLOGIES, INC.		ISSUE
		1
SD-5D564-02		SHEET B10

# AS 11

IWG-PVG  
 INTERWORKING GATEWAY - PACKET VOICE GATEWAY  
 ED5D892-30  
 IWG1 & IWG2 CABINETS

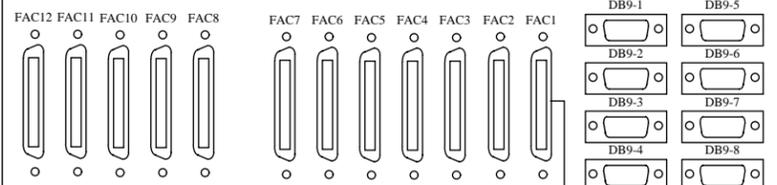


TO ETS  
IWG1 ONLY

TO EM HUB  
IWG1 ONLY

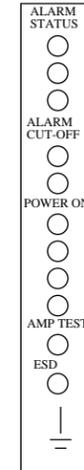
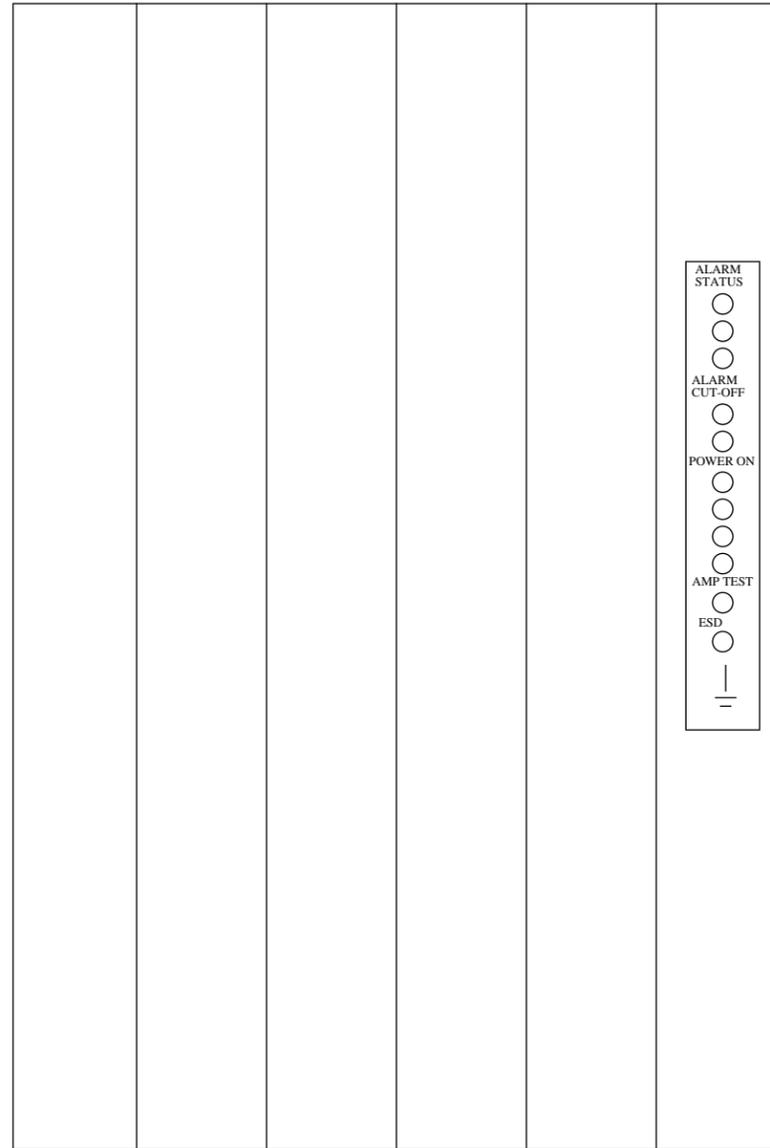
TO MH HUBS  
IWG1 ONLY

ALARM, POWER AND COAX PANEL  
 ED9C264-30, G2



BACK

TO CUSTOMER'S  
TSG



FRONT

**DESCRIPTION**

THE IWG-PVG UNIT IS 28.5" (724 MM) HIGH BY 19.68" (500 MM) WIDE BY 23.62" (600 MM) DEEP. A FULLY EQUIPPED UNIT WEIGHS 250 LBS.

**CAPACITY**

THE IWG-PVG UNIT SUPPORTS UP TO 3638 DS0s WITH ECHO CANCELLATION.

**FUSING REQUIREMENTS**

THE IWG-PVG REQUIRES 50 AMP FUSES AT THE GPDF HIGH AMP PANEL.

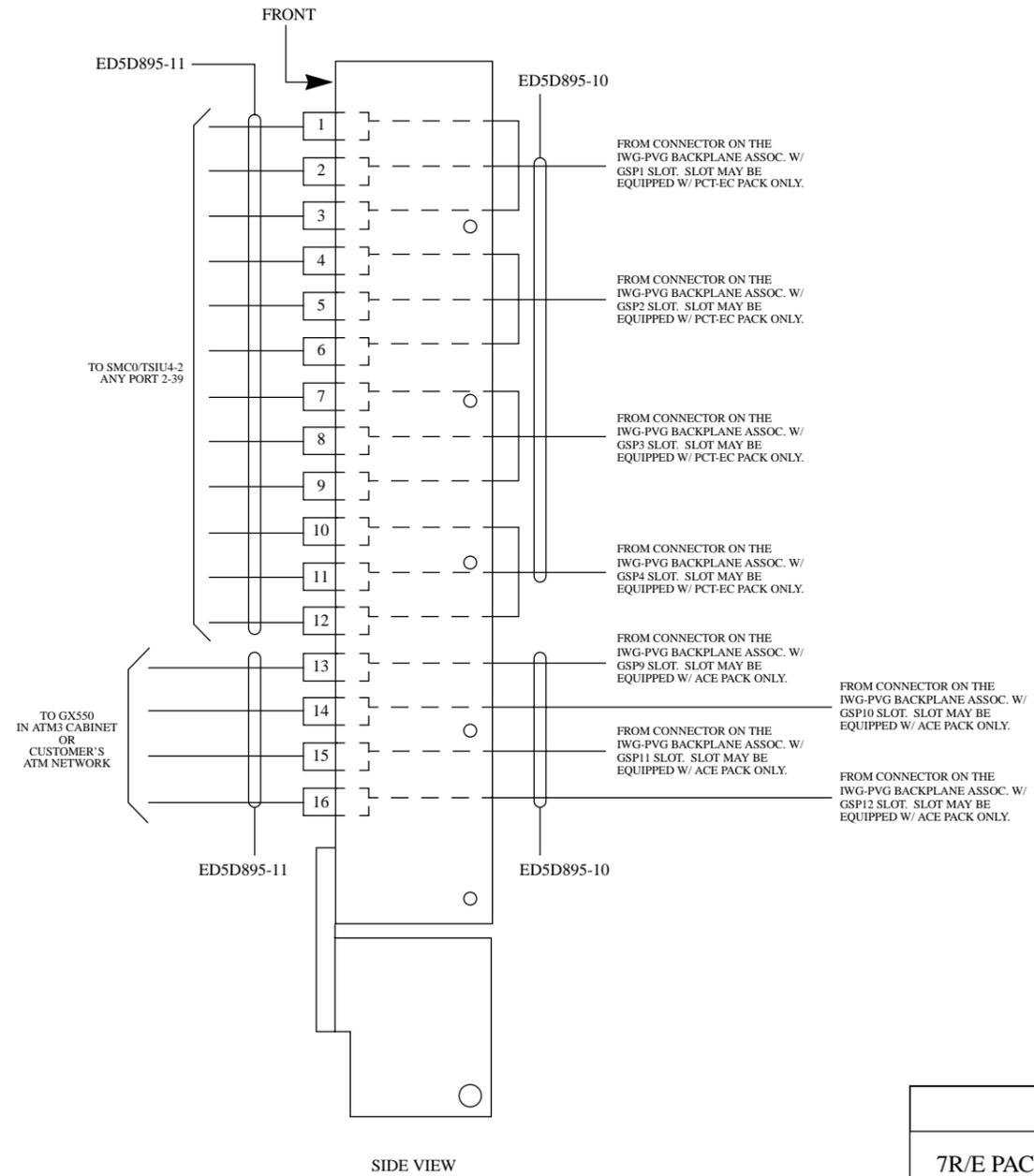
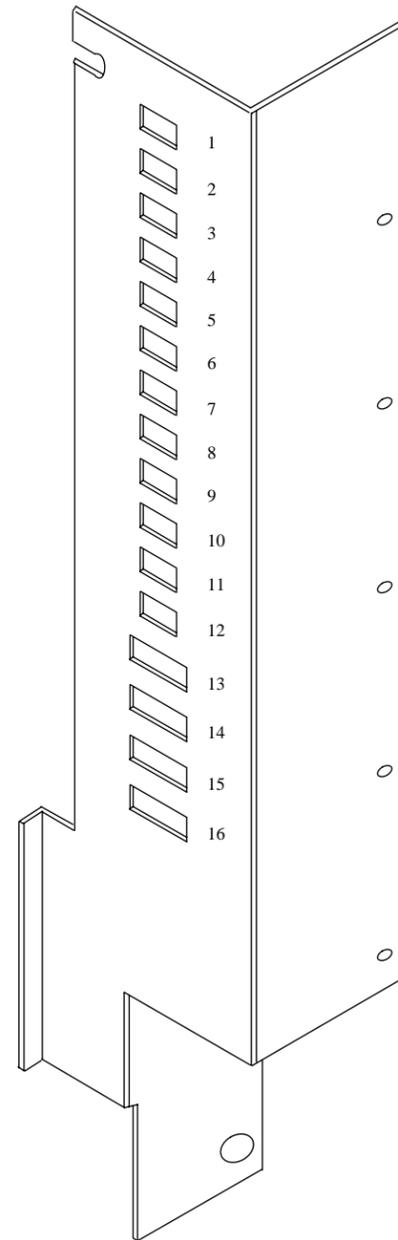
LUCENT TECHNOLOGIES INC. - PROPRIETARY USE PURSUANT TO COMPANY INSTRUCTIONS		
7R/E PACKET LOCAL SOLUTIONS APPLICATION SCHEMATIC		DWG SIZE
		C2
LUCENT TECHNOLOGIES, INC.		ISSUE
		1
SD-5D564-02		SHEET B11

# AS 12

FIBER OPTIC PANEL  
ED5D892-30  
IWG1 & IWG2 CABINETS

NOTE:

THE FIBER OPTIC PANEL ALLOWS FOR SIMPLIFIED FIBER CABLE INSTALLATION TO THE IWG-PVG.  
ALL INTRA-CABINET CABLES SHALL BE FACTORY INSTALLED AT THE REAR OF THE FIBER PANEL. ALL INTER-CABINET CABLES SHALL BE FIELD INSTALLED AT THE FRONT OF THE FIBER PANEL.



LUCENT TECHNOLOGIES INC. - PROPRIETARY USE PURSUANT TO COMPANY INSTRUCTIONS		
7R/E PACKET LOCAL SOLUTIONS APPLICATION SCHEMATIC		DWG SIZE
		C2
LUCENT TECHNOLOGIES, INC.		ISSUE
		1
SD-5D564-02		SHEET B12

# APP FIG. 1

FAC CABINET

# APP FIG. 1A

CABINET W/O MFFU POSITION

# APP FIG. 2

OPTION	DESIG	EQPT LOC	CODE
	MFFU	069	J5D003FJ -() SD-5D190-01

# APP FIG. 3

OPTION	DESIG	EQPT LOC	CODE
	ETS HUB (OLP)	061, 064	J5D061B-()
	ETS HUB (ATM3)	061	J5D061B-()
	ETS HUB (IWG1)	061	J5D061B-()
	EM HUB (ATM3)	064	J5D061B-()
	EM HUB (IWG1)	064	J5D061B-()
	MH HUB (IWG1)	055,058	J5D061B-()

# APP FIG. 4

OPTION	DESIG	EQPT LOC	CODE
	L2 SWITCH (OLP)	052, 057	J5D061B-() ED5D894-30

# APP FIG. 5

OPTION	DESIG	EQPT LOC	CODE
	EDU (OLP)	040, 043	J5D061B-() ED5D894-30

# APP FIG. 6

OPTION	DESIG	EQPT LOC	CODE
	OLP UNIT (OLP)	013, 027	J5D061B-() ED5D894-30

# APP FIG. 7

OPTION	DESIG	EQPT LOC	CODE
	DCPPU (ATM3)	052	J5D061B-() ED5D891-30

# APP FIG. 8

OPTION	DESIG	EQPT LOC	CODE
	GX550 (ATM3)	025	J5D061B-() ED5D891-30

# APP FIG. 9

OPTION	DESIG	EQPT LOC	CODE
	IWG-PVG (IWG1)	021	J5D061B-() ED5D892-30
	IWG-PVG (IWG2)	021, 055	J5D061B-() ED5D892-30

LUCENT TECHNOLOGIES INC. - PROPRIETARY USE PURSUANT TO COMPANY INSTRUCTIONS		
7R/E PACKET LOCAL SOLUTIONS APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	1
LUCENT TECHNOLOGIES, INC.	SD-5D564-02	SHEET C1

A  
B  
C  
D  
E  
F  
G  
H

A  
B  
C  
D  
E  
F  
G  
H

CIRCUIT NOTES:

101.

DESIG	FUSE AMP	POTENTIAL	QTY PER UNIT
ETS HUB	5A	-48VDC	1
EM HUB	3A	-48VDC	1
MH HUB	3A	-48VDC	1
L2 SWITCH	5A	-48VDC	1
EDU	7A	-48VDC	1
OLP	15A	-48VDC	6
GX550	100A	-48VDC	2
IWG-PVG	50A	-48VDC	4
BATTERY SYMBOL		VOLTAGE RANGE	
-48VDC		-42.75 / -52.5	

EQUIPMENT NOTES:

201. FOR THE OLP, ATM3, & IWG1 CABINETS, A FAC CABINET IS USED, WHICH IS 72.00" (1828MM) HIGH BY 30.00" (762MM) WIDE BY 24.00" (600MM) DEEP (E/W DOORS).

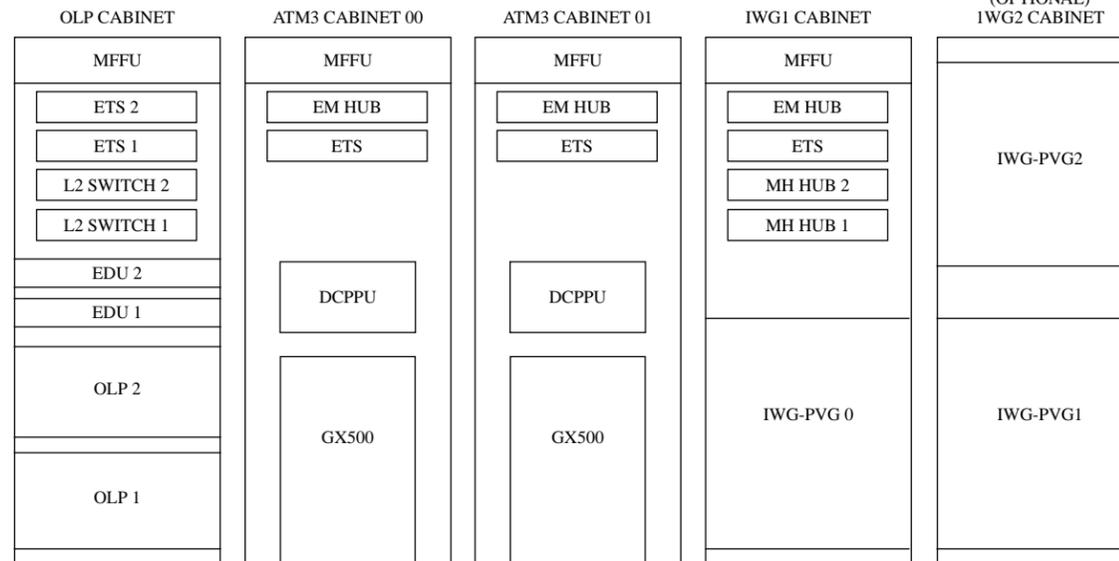
202. FOR THE IWG2 CABINET, A CABINET W/O THE MFFU POSITION IS USED, WHICH IS 1829MM HIGH BY 760MM WIDE BY 594MM DEEP.

203. 7R/E PLS CONFIGURATION (R3.0):

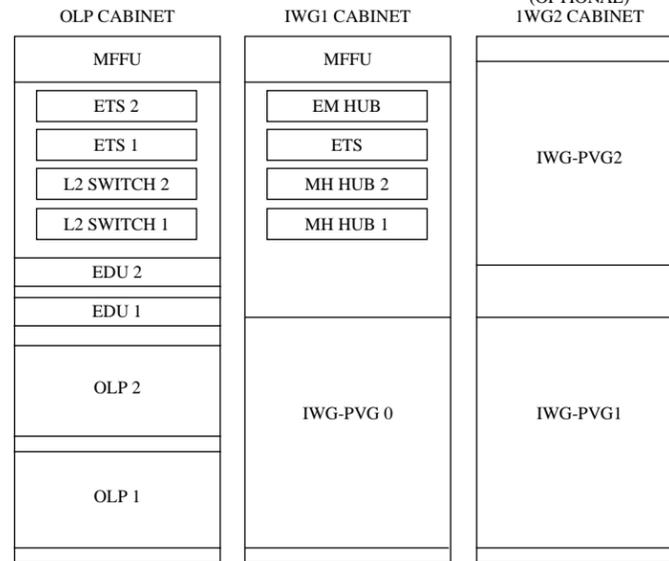
EQUIPMENT NOTES (CONT):

204. IF THE IWG2 CABINET IS ORDERED, IT MUST BE WITHIN 50 CABLING FEET OF THE IWG1 CABINET.

CONFIGURATION WITH ATM



CONFIGURATION WITHOUT ATM



LUCENT TECHNOLOGIES INC. - PROPRIETARY USE PURSUANT TO COMPANY INSTRUCTIONS		
7R/E PACKET LOCAL SOLUTIONS APPLICATION SCHEMATIC		DWG SIZE
		C2
LUCENT TECHNOLOGIES, INC.		ISSUE
		1
SD-5D564-02		SHEET D1

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
7R/E PLS (R3.0) OLP			
CABINET ASSEMBLY	1		1
MFFU	2		1
ETS HUB	3		2
L2 SWITCH	4		2
EDU	5		2
OLP UNIT	6		2
7R/E PLS (R3.0) ATM3			
CABINET ASSEMBLY	1		1
MFFU	2		1
EM HUB	3		1
ETS	3		1
DCPPU	7		1
GX550	8		1
7R/E PLS (R3.0) IWG1			
CABINET ASSEMBLY	1		1
MFFU	2		1
EM HUB	3		1
ETS	3		1
MH HUB	3		2
IWG-PVG	9		1
7R/E PLS (R3.0) IWG2			
CABINET ASSEMBLY	1A		1
IWG-PVG	9		1 OR 2

INFORMATION NOTES (CONT):

303.

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

304. TSU4 CAPACITY MUST BE ADDED TO SUPPORT PCTFI ACCESS CIRCUITS. IF A GIVEN CUSTOMER CHOOSES NOT TO USE ADD/DROP MULTIPLEXERS TO GROOM PCTFI CIRCUITS, USERS MAY NEED TO SPECIFY SLACK VIRTUAL TRIBUTARIES TO ENSURE THAT DEDICATED PCTFI CIRCUITS ARE AVAILABLE FOR THE 7R/E PLS IWG APPLICATION.

305. 7R/E PLS REQUIRES CLOCK REFERENCE EITHER PROVIDED BY 5E OR EXTERNAL BITS CLOCK.

306. ALL CONNECTIONS IN THE AS FIGURES ON THE B SHEETS ARE INTRA-CABINET CONNECTIONS.

307. ALL CONNECTIONS IN THE BD FIGURES ON THE H SHEETS ARE INTER-CABINET CONNECTIONS.

A

B

C

D

E

F

G

H

A

B

C

D

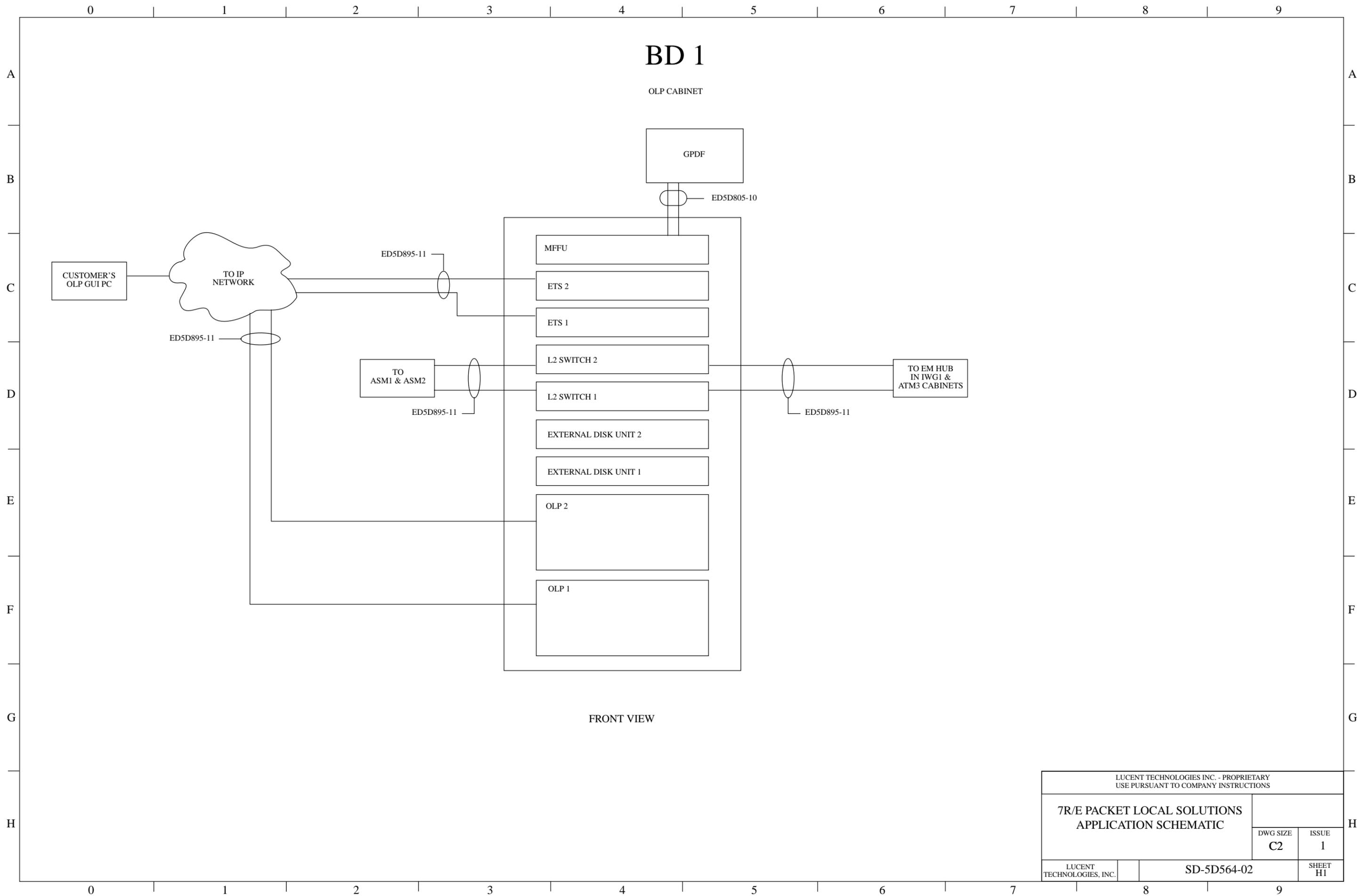
E

F

G

H

LUCENT TECHNOLOGIES INC. - PROPRIETARY USE PURSUANT TO COMPANY INSTRUCTIONS		
7R/E PACKET LOCAL SOLUTIONS APPLICATION SCHEMATIC		DWG SIZE
		C2
LUCENT TECHNOLOGIES, INC.		ISSUE
		1
SD-5D564-02		SHEET D2



LUCENT TECHNOLOGIES INC. - PROPRIETARY USE PURSUANT TO COMPANY INSTRUCTIONS		
7R/E PACKET LOCAL SOLUTIONS APPLICATION SCHEMATIC		DWG SIZE <b>C2</b>
		ISSUE <b>1</b>
LUCENT TECHNOLOGIES, INC.	SD-5D564-02	SHEET <b>H1</b>

0 1 2 3 4 5 6 7 8 9

A

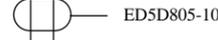
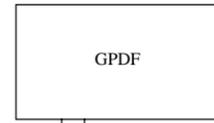
A

# BD 2

ATM3 CABINET

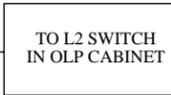
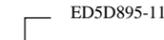
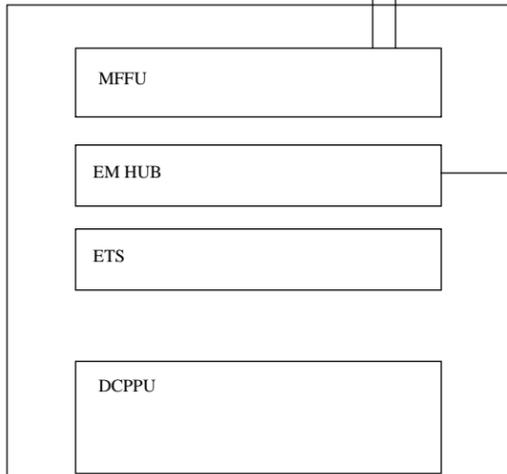
B

B



C

C



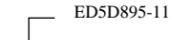
D

D



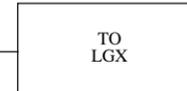
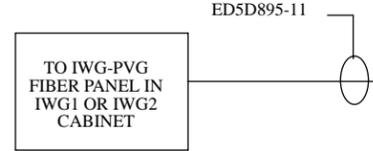
E

E



F

F



G

G

FRONT VIEW

H

H

LUCENT TECHNOLOGIES INC. - PROPRIETARY USE PURSUANT TO COMPANY INSTRUCTIONS		
7R/E PACKET LOCAL SOLUTIONS APPLICATION SCHEMATIC		DWG SIZE
		C2
LUCENT TECHNOLOGIES, INC.		ISSUE
		1
SD-5D564-02		SHEET H2

0 1 2 3 4 5 6 7 8 9

0 1 2 3 4 5 6 7 8 9

# BD 3

IWG1 CABINET

A

B

C

D

E

F

G

H

A

B

C

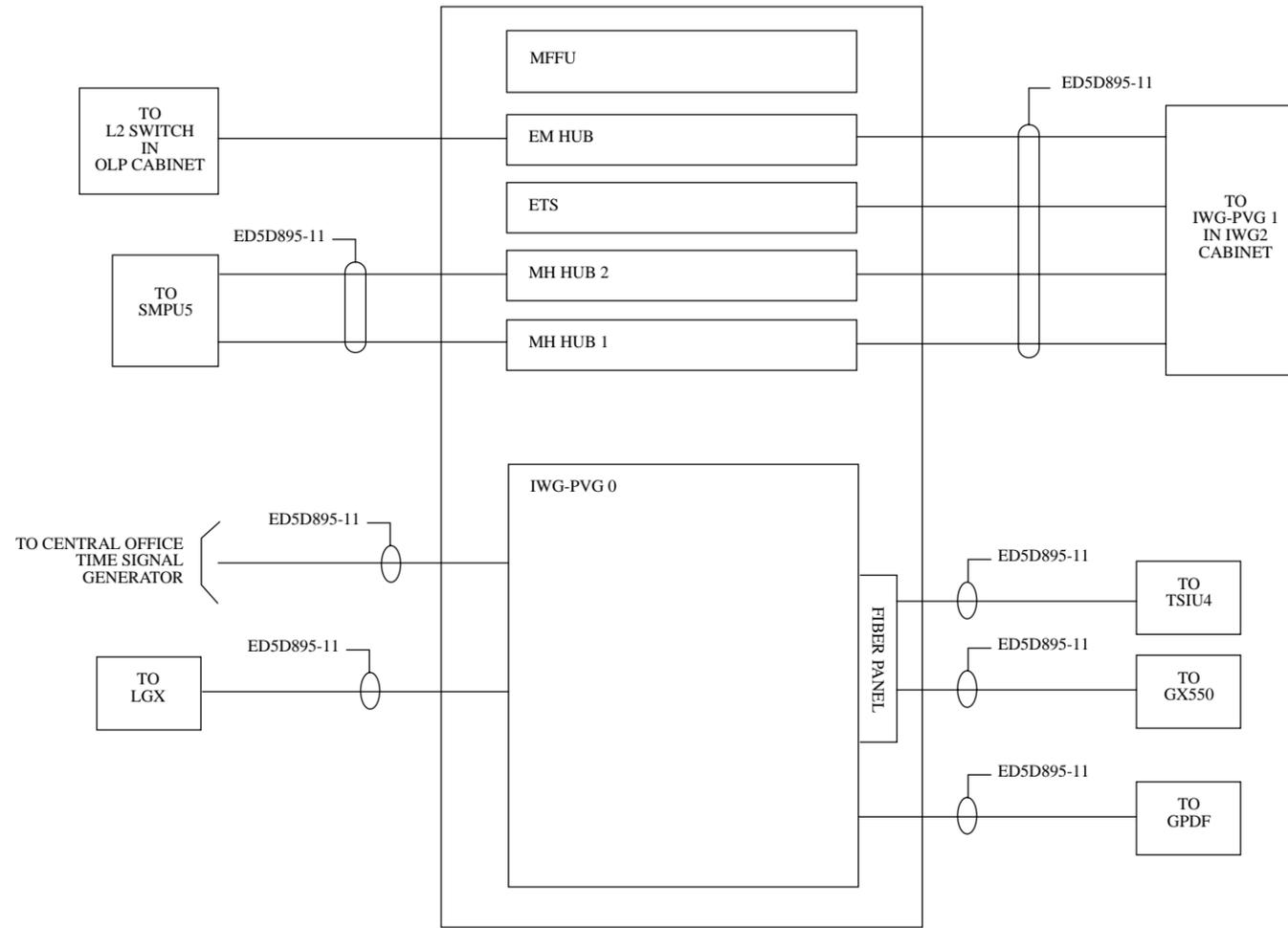
D

E

F

G

H



FRONT VIEW

LUCENT TECHNOLOGIES INC. - PROPRIETARY USE PURSUANT TO COMPANY INSTRUCTIONS		
7R/E PACKET LOCAL SOLUTIONS APPLICATION SCHEMATIC		DWG SIZE
		C2
LUCENT TECHNOLOGIES, INC.		ISSUE
		1
SD-5D564-02		SHEET H3

0 1 2 3 4 5 6 7 8 9

0 1 2 3 4 5 6 7 8 9

# BD 4

IWG2 CABINET

A

A

B

B

C

C

D

D

E

E

F

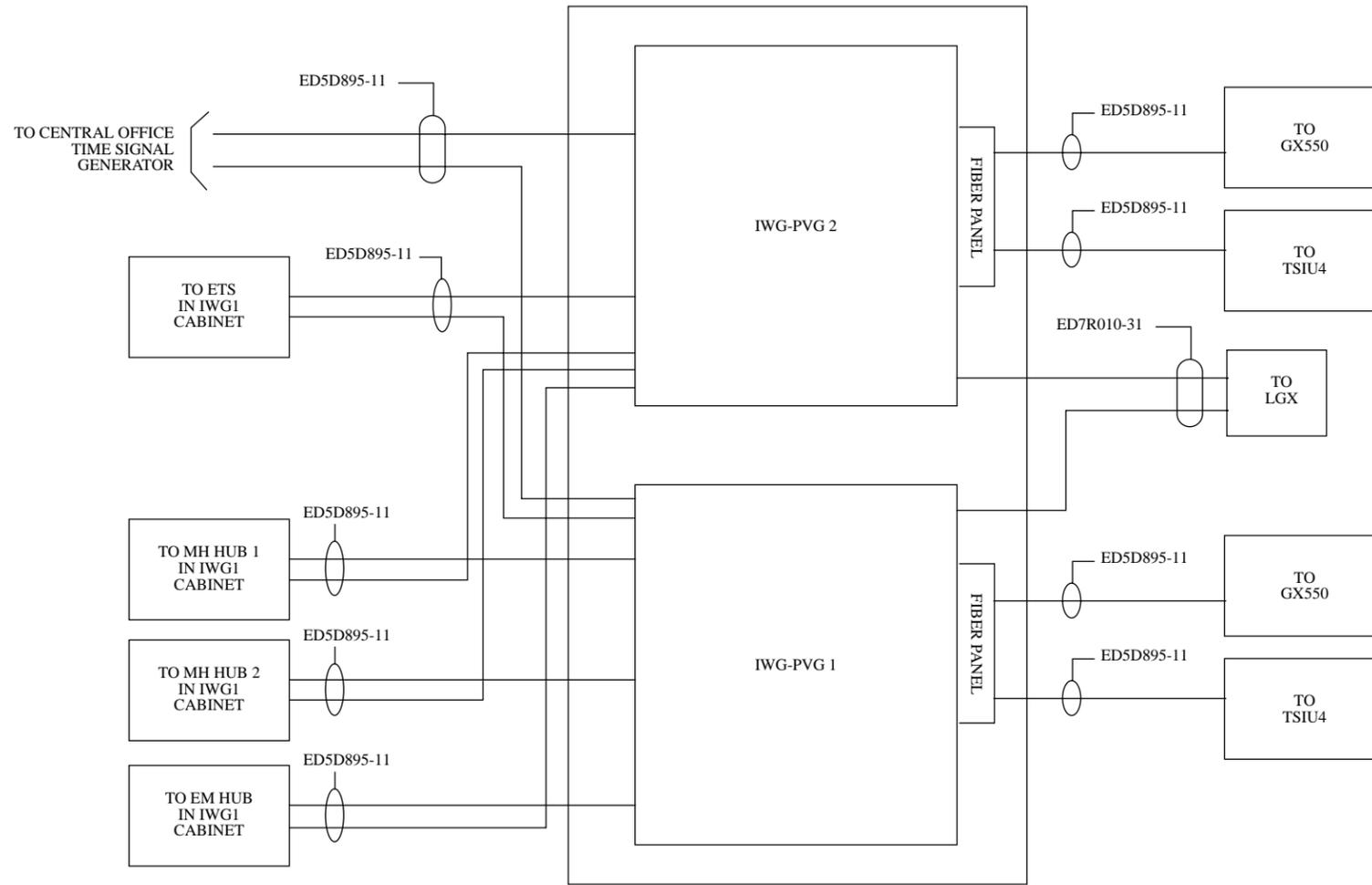
F

G

G

H

H



FRONT VIEW

LUCENT TECHNOLOGIES INC. - PROPRIETARY USE PURSUANT TO COMPANY INSTRUCTIONS		
7R/E PACKET LOCAL SOLUTIONS APPLICATION SCHEMATIC		DWG SIZE
		C2
LUCENT TECHNOLOGIES, INC.		ISSUE
		1
SD-5D564-02		SHEET H4

0 1 2 3 4 5 6 7 8 9