

ISSUE NOTES (CONTINUED)	ISSUE NOTES (CONTINUED)	ISSUE NOTES
IN TABLE A, LIST 18 ADDED. EN NOTE 66 MODIFIED. SL ITEM 1890 ADDED. ORIG ISS: 09/17/91 CHANGE CLASS: B	IN ST ITEM 1265 NOTE "S" ADDED. ORIG ISS: 09/17/91 CHANGE CLASS: M	ORIG ISS: 09/17/91 NDD NBR: NDD5D049NW-1 CHANGE CLASS: DRAFT: TMR ENGR: TMR SUPV: EJZ CERTIFIED: 09/17/91 ISSUE: 1
DRAFT: RRP ENGR: RPP SUPV: JZG CERTIFIED: 12/18/96 ISSUE: 17	DRAFT: PKK ENGR: PKK SUPV: CERTIFIED: 03/29/94 ISSUE: 10	NOTES 56 & 57 ADDED; TABLE A, LISTS 2 & 4 RATING WAS "NRTO", LISTS 6, 9 & H RATED "DA", LISTS 6A, 9A, 10, 11 & J ADDED, LIST G MODIFIED; MFG NOTE 16 MODIFIED 17, 18 & 19 ADDED; SL ITEMS 1015 1100, 1300, 1505, 1710, 1810, 1850, 1900, 2140 & 2150 ADDED, 1420 LIST READ "5,6,7", ITEM 2070 PROD ID READ "845310507" ITEM 2000, 2120, 2130 PROD ID READ "ED5D076-20".
IN TABLE A, LISTS 19, 20, 21 ADDED. EN NOTE 66 MODIFIED. SL ITEMS 1940, 1950, 1960 ADDED. IN TABLE A, LISTS 14, A, G, J, W, X MODIFIED. ORIG ISS: 09/17/91 CHANGE CLASS: B	STOCKLIST LINE 1260 LINEOUT REMOVED, 1265 LINED OUT. ORIG ISS: 09/17/91 CHANGE CLASS: ME	ORIG ISS: 09/17/91 NDD NBR: NDD5D049NW-2 CHANGE CLASS: M DRAFT: TMR ENGR: TMR SUPV: EJZ CERTIFIED: 11/14/91 ISSUE: 2
DRAFT: RRP ENGR: RRP SUPV: JZG CERTIFIED: 04/08/97 ISSUE: 18	DRAFT: RRP ENGR: RRP SUPV: JLO CERTIFIED: 06/09/94 ISSUE: 11	NOTES 58 THRU 61 ADDED; LISTS K THRU R ADDED; SL ITEM 1620 READ '501007421', 1700 READ '406581645'. 1721 READ 'ED1P296-30,G12', ITEMS 1260 THRU 2210 ADDED.
IN TABLE A LISTS 22, 23 ADDED. SL ITEMS 1970, 1980 ADDED. EN NOTE 66 MODIFIED. ORIG ISS: 09/17/91 CHANGE CLASS: B	IN TABLE A, LISTS 5A, 11A, 14, 15 ADDED; LISTS 5, 10, 11 RATED "DA"; LISTS A, G, J, W MODIFIED; SL ITEMS 1410, 1851, 1860, 1905, ADDED; SL ITEMS 1100, 1300, 1400, 1850 MODIFIED; EN NOTE 78 ADDED; EN NOTE 66 MODIFIED. ORIG ISS: 09/17/91 NDD NBR: NDD5D049NW-7 CHANGE CLASS: B	ORIG ISS: 09/17/91 NDD NBR: NDD5D049NW-3 CHANGE CLASS: ME DRAFT: TMR ENGR: TMR SUPV: EJZ CERTIFIED: 04/22/92 ISSUE: 3
DRAFT: RRP ENGR: RRP SUPV: JZG CERTIFIED: 01/08/98 ISSUE: 19	DRAFT: RRP ENGR: RRP SUPV: JZG CERTIFIED: 03/10/95 ISSUE: 12	NOTE 57 REMOVED, NOTES 64 - 68 ADDED; LISTS 1,3,E & F RATING WAS STANDARD, LISTS 1A, 3A, S & T ADDED; SL ITEMS 1506 & 2180 LINED OUT.
IN TABLE A AND STOCKLIST, LISTS 6B AND 25 THRU 35 ADDED. LISTS 6A,12,14 THRU 22 RATED DA. ORIG ISS: 09/17/91 CHANGE CLASS: B	IN TABLE A, LIST 14 HAS BEEN MODIFIED TO REMOVE "NRTO" ORIG ISS: 09/17/91 CHANGE CLASS: MF	ORIG ISS: 09/17/91 NDD NBR: NDD5D049NW-4 CHANGE CLASS: M DRAFT: TMR ENGR: TMR SUPV: PK CERTIFIED: 10/12/92 ISSUE: 4
DRAFT: DSL ENGR: DSL SUPV: RMB CERTIFIED: 12/02/98 ISSUE: 20	DRAFT: RRP ENGR: RRP SUPV: JZG CERTIFIED: 03/17/95 ISSUE: 13	LISTS 12 & V, NOTES 69, 70 & 71 ADDED. ORIG ISS: 09/17/91 NDD NBR: NDD5D049NW-5 CHANGE CLASS: MF
IN TABLE A, LISTS 1A,3A,5A,6B,7,8,9A,11A,25,26,27,28,29,30,31,32, 33,34,35,B,C,D,J,S,T,V,W AND X RATED LA. IN LISTS 1A AND 3A DESCRIPTIONS, "MOUNTED IN A CLASSIC CABINET" ADDED. (H8705) ORIG ISS: 09/17/91 CHANGE CLASS: ME	IN TABLE A, LIST 11A HAS BEEN MODIFIED. ORIG ISS: 09/17/91 CHANGE CLASS: MF	DRAFT: TMR ENGR: TMR SUPV: PK CERTIFIED: 02/01/93 ISSUE: 5
DRAFT: DSL ENGR: DSL SUPV: RMB CERTIFIED: 08/31/99 ISSUE: 21	DRAFT: RRP ENGR: RRP SUPV: JGZ CERTIFIED: 03/22/95 ISSUE: 14	NOTES 72 THRU 75 ADDED; LIST 3A, REF TO DCS UNIT ADDED, LISTS 13,W & X ADDED. ORIG ISS: 09/17/91 NDD NBR: NDD5D049NW-6 CHANGE CLASS: B
IN TABLE A. LIST 1A, 3A, 5A, 6B, 7, 8, 9A, 11A, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, B, C, D, J, S, T, V, W AND X ARE ALL RATED "DA" PER IMR 734306. THIS DRAWING IS RATED "DA" IN IT'S ENTIRETY. ORIG ISS: 09/17/91 NDD NBR: WS#0100688 CHANGE CLASS: B	IN TABLE A LIST J HAS BEEN MODIFIED FOR "DUAL POWER FOR CSS" FEATURE. ENGINEERING NOTE 79 ADDED. ORIG ISS: 09/17/91 NDD NBR: NDD5D049NW-8 CHANGE CLASS: B	DRAFT: TMR ENGR: TMR SUPV: PK CERTIFIED: 05/07/93 ISSUE: 6
DRAFT: WFB ENGR: WFB SUPV: DML CERTIFIED: 07/13/01 ISSUE: 22	DRAFT: RRP ENGR: RRP SUPV: JZG CERTIFIED: 06/07/95 ISSUE: 15	SL ITEMS 1400, 1690 & 1700, PROD ID READ "406152983, 406518787 & J1P260BA-1,L2" RESPY, SHT B7 & B8 CHGD ACCORDINGLY; NOTE 77 & REF ADDED. ORIG ISS: 09/17/91 CHANGE CLASS: ME
	IN TABLE A, LISTS 16, 17 ADDED; LISTS 2, 4, 13 RATED DA; LISTS A, J, W MODIFIED; SL ITEMS 1870, 1880 ADDED; EN NOTE 80, 81 ADDED; EN NOTE 66, 78 MODIFIED. ORIG ISS: 09/17/91 CHANGE CLASS: B	DRAFT: TMR ENGR: TMR SUPV: PK CERTIFIED: 07/22/93 ISSUE: 7
	DRAFT: RRP ENGR: RRP SUPV: JZG CERTIFIED: 05/15/96 ISSUE: 16	IN ST LINED OUT ITEM 1260 AND ADDED ITEM 1265. ORIG ISS: 09/17/91 CHANGE CLASS: M
		DRAFT: PKK ENGR: PKK SUPV: CERTIFIED: 01/14/94 ISSUE: 8
		MODIFIED LIST W. ORIG ISS: 09/17/91 CHANGE CLASS: M
		DRAFT: PKK ENGR: PKK SUPV: CERTIFIED: 03/17/94 ISSUE: 9

SHEET INDEX											
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ISSUE											
SHT NBR	D1 THRU D3										ISSUE 22
ISSUE											
SHT NBR	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11
ISSUE	20	20	20	20	20	20	20	20	20	20	20
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BT13

5ESS SWITCHING SYSTEM
SPECIFICATION FOR
OPERATOR SERVICES POSITION SYSTEM
AUTOMATED POSITION CLUSTER
CABINETS
(OSPS-AP)

DWG SIZE C2 ISSUE 22

LUCENT TECHNOLOGIES INC J5D049A-1 SHEET A1 OF 19

ENGINEERING NOTES

***** CONTINUED *****

- 72. THE MARKET DATA COLLECTION SYSTEM (DCS) IS AN AT&T PROPRIETARY FEATURE AND IS REQUIRED FOR NETWORK SERVICES DIVISION (NSD) CUSTOMERS ONLY. THIS FEATURE IS NOT TO BE ORDERED FOR ANY OTHER CUSTOMER.
- 73. IN THE STANDARD DCS CONFIGURATION THE DCS UNIT SHALL BE MOUNTED IN A STAND ALONE CABINET DESIGNATED DATA COLLECTION SYSTEM CABINET 00 (DCSC00) AND LOCATED WITHIN 50 FEET (15.24M) OF THE POWER DISTRIBUTION/CLUSTER CONTROL SYSTEM CABINET (APSC00), SEE FIGURE E. POWER REQUIREMENTS ARE THE SAME AS A CSS UNIT AND WILL BE POWERED FROM BUS 1 PER SD5D507-01 APP FIGURE 2 AND CAD 3.
- 74. IN THE ALTERNATE DCS CONFIGURATION THE DCS UNIT MAY BE MOUNTED ON THE BOTTOM OF THE APSC13 CABINET WHERE A FULL CLUSTER (25 APS'S) IS INSTALLED. WHERE A FULL CLUSTER IS NOT INSTALLED BUT FUTURE GROWTH IS ANTICIPATED SPACE MAY BE ALLOCATED FOR THE REMAINING CABINETS AND THE DCS INSTALLED IN THE BOTTOM OF THE APSC13 CABINET AT THE CUSTOMERS OPTION. SEE FIGURE F.
- 75. THE OPTIONAL VRCP PORT INTERFACE PANEL (LIST 12) MAY ALSO BE USED WITH THE MARKET DATA COLLECTION SYSTEM (DCS). (NSD CUSTOMERS ONLY). INSTALLATION OF THE PANEL IS DEPENDENT ON THE SELECTED DCS CONFIGURATION, SEE NOTES 72 AND 73. THE VRCP PORT INTERFACE PANEL CAN BE MOUNTED ON THE DCSC00 CABINET WITH A DCS UNIT (SEE FIG. 2) OR MOUNTED ON THE APSC13 CABINET WITH AN APS25 UNIT, (SEE FIG. 6) PORTS ON THIS PANEL SHALL BE DEDICATED FOR DCS USE ONLY. PORTS FROM THE CSS SHOULD NOT BE ROUTED THROUGH THIS PANEL OR VICE VERSA. TWO DATA KIT CONNECTIONS ARE REQUIRED FROM IPC3 AND IPC4 PORTS. LIST V, (TWO DATA KIT CONNECTORS) IS ALSO REQUIRED FOR DCS.
- 76. LISTS W AND X ARE PROVIDED TO IDENTIFY THE PROPER SOFTWARE TO BE LOADED AND TESTED BY THE FACTORY DURING MANUFACTURE. LIST W FOR NSD AND LIST X FOR LEC CUSTOMERS. SEE J5D008AC-1 CLUSTER PROGRAM SOFTWARE FOR SPECIFIC DETAILS.
- 77. ONE 600MB DISK DRIVE (COMCODE 406484469) IS BEING SUPPLIED TO NSD CUSTOMERS ONLY BY NSD VRCP PROJECT MANAGEMENT. NO ADDITIONAL ORDERING IS REQUIRED TO OBTAIN THIS DRIVE. THIS DRIVE IS TO BE INSTALLED IN THE EMPTY DRIVE BAY NEXT TO THE EXISTING DRIVE (DRIVE 0) IN APS01. THE NEW DRIVE IS TO BE DESIGNATED (DRIVE 1). FOR DETAILS OF INSTALLATION REFER TO SECTION 11 IN ATT&T 250-600-502 (INSTALLATION, TESTING AND EQUIPMENT MAINTENANCE FOR VRCP). THIS DRIVE IS REQUIRED FOR SPEECH DATA COLLECTION (SDC).
- 78. POWER REQUIREMENTS FOR THIS PRODUCT IS CONSISTENT WITH THE PRODUCT BEING REPLACED/UPGRADED AND WILL NOT EXCEED THE INTERNAL AND EXTERNAL TOTALS AS SPECIFIED IN SD5D507-01 APP FIG 2 FOR CSS AND APP FIG 3 FOR APS.
- 79. PROVIDE ONE ADDITIONAL LIST J FOR "DUAL POWER FOR CSS" FEATURE. ALSO SEE ED5D726-11 FOR ORDERING CABLE ASSEMBLY FOR CSS POWER ALARMING.
- 80. MARKET DATA COLLECTION SYSTEM (DCS) IS NO LONGER REQUIRED FOR ANY FUTURE ORDERS. HENCE THE LIST 13 IS DA'D.
- 81. THE POSSIBLE RECOMMENDED ALTERNATIVE (RA) IS J5D049A-1, L14. THE SOFTWARE TO SUPPORT THIS CHANGE WILL BE AVAILABLE AT A LATER TIME BASED ON LEC CUSTOMER NEEDS. "RA" WILL WILL BE INSTITUTED AT THAT TIME.

ENGINEERING NOTES

***** CONTINUED *****

- 64. DO NOT USE THIS DRAWING TO ORDER SPARES FOR AN APS CLUSTER. SPARES MUST BE ORDERED FROM ED5D748-10.
- 65. CABINET ADDRESS LABELS ARE TO BE SPECIFIED BY THE LINE ENGINEER ON A JOB BASIS PER TABLE AA AND ED5D695-10.
- 66. LISTS 2, 4, 10, 13, ARE DA'D. ANY FUTURE ORDERS ASSOCIATED WITH LISTS 14, 15, 16, 17, 18, 19, 20, 21, 22, 23 MUST BE SOURCED ON DENVER WORKS: "DRN". DO NOT ORDER BY COM CODE IN THE STOCK LIST. DENVER WORKS WILL ASSOCIATED THE PEC CODE (SUCH AS 7024-LEC, 7024-VRP AS SHOWN UNDER THE STOCK LIST) AND ENTER IN THEIR DOSS ORDERING SYSTEM, MAUFACTURE AND SHIP THE PRODUCT TO THE REQUESTED SHIPPING ADDRESS.
- 67. LISTS " S & T" AND "W & X" ARE MUTUALLY EXCLUSIVE.
- 68. LIST T SPECIFIES DOORS AND GASKETING MATERIAL TO PROVIDE ELECTROMAGNETIC COMPATIBILITY TREATMENT FOR APPLICATIONS SENSITIVE TO RADIO/TV INTERFERENCE SUCH AS PBX, RSM/ORM/TRM IN RESIDENTIAL AREAS AND OTHER CUSTOMER PREMISE APPLICATIONS. ADDITIONAL MATERIAL REQUIRED TO COMPLETE THE EMC INSTALLATION CAN BE ORDERED FROM ED5D184-76.
- 69. THE OPTIONAL VRCP PORT INTERFACE PANEL (LIST 12) IS PROVIDED AS A PACKAGE CONSISTING OF THE FOLLOWING:
 - A. MOUNTING PLATE EQUIPPED WITH TEN DB25 FEMALE TO RJ45 RS232 CONNECTORS.
 - B. CONNECTOR FOR COM1 (LABELED CAB C054).
 - C. CONNECTOR FOR COM2 (LABELED CAB C055).
 - D. FOUR 12-24X3/4 HEX WASHER HEAD SELF TAPPING SCREWS.

MOUNT THE PANEL TO THE CSS CABINET AS SHOWN IN FIG. 1. MOUNT THE CONNECTOR LABELED CAB-C054 TO THE COM1 PORT ON THE REAR OF THE CSS UNIT. MOUNT THE CONNECTOR LABELED CAB-C055 TO THE COM2 PORT ON THE TOP OF THE CSS UNIT.

THE TEN IPC PORTS MUST BE CONNECTED USING THE 10-PIN RJ45 10 FOOT CABLES. TWO ARE PROVIDED BY LIST 12 AND EIGHT ARE PROVIDED WITH THE CSS UNIT. CONNECT AS SHOWN BELOW:

FROM RJ45 PORT ON CSS	TO RJ45 CONNECTOR ON PANEL
IPC1	1
IPC2	2
IPC3	3
IPC4	4
IPC5	5
IPC6	6
IPC7	7
IPC8	8
COM1	9
COM2	10

THE PANEL OFFERS THE STANDARD RS232 DB25 FEMALE PINOUT INTERFACE ON ALL THE ABOVE PORTS. NOTES 55, 60 AND 61 AND FIGURES 5, 6, 7, 8, 9 AND 10 ARE NOT APPLICABLE WHEN THIS OPTION IS SELECTED. ALSO REFER TO SD5D507-01 NOTES 308, 309, 310 AND 311 AND CAD FIGURES 17, 18 AND 19.

DETERMINE THE NUMBER OF EXTERNAL CONNECTIONS TO THE INTERFACE PANEL BASED ON CUSTOMER REQUIREMENTS. DEPENDING ON REQUIREMENTS VARIOUS CONFIGURATIONS ARE POSSIBLE:

 - A. A DATA LINK OR LINKS TO SCCS (SWITCHING CONTROL CENTER SYSTEM) IS REQUIRED TO MONITOR THE CLUSTER.
 - B. THE CUSTOMERS, AT THEIR OPTION, MAY INSTALL A REMOTE TERMINAL AT SCCS, FMC OR MCC. IT IS STRONGLY RECOMMENDED THAT THE CUSTOMER PROVIDE A PORT AND CONNECTION FOR USE BY AT&T FIELD SUPPORT.
 - C. THE CUSTOMERS, AT THEIR OPTION, MAY INSTALL A PRINTER AT THE FMC AND MCC. THIS IS A DESIRABLE OPTION. IPC PORTS 1 AND 2 ARE DESIGNATED TTY-H01 AND TTY-H02 RESPECTIVELY IN UNIX.
 - D. THE COM1 PORT IS RESERVED FOR A LOCAL TERMINAL. HOWEVER THERE IS NO SPECIFIC REQUIREMENT TO USE THIS FEATURE.
- 70. IT IS PREFERABLE TO NUMBER THE CSS UNITS WITH A UNIQUE IDENTITY. CONTACT INTERNAL LOCAL PROJECT MANAGEMENT FOR THE ASSIGNED CSS NUMBER FOR THE UNIT BEING INSTALLED. ANY UNIQUE PREASSIGNED NUMBER FROM CSS01 THROUGH CSS99 MAY BE USED. HOWEVER THE APS UNIT NUMBERING SCHEME AS SHOWN IN TABLE BB IS NOT TO BE DEVIATED FROM.
- 71. DUE TO UNAVAILABILITY OF 846362762 CONNECTORS AN 846362754 MAY BE SUBSTITUTED BY THE SUPPLIER TEMPORARILY UNTIL LATE 1992. IF THE 846362754 IS PROVIDED A DB25 (F-F) GENDER CHANGER 403409667 (BLACK BOX FA-402) OR EQUIVALENT MUST ALSO BE USED TO ENSURE PROPER CONNECTION.

ENGINEERING NOTES

- 51. INFORMATION FURNISHED PER THIS DRAWING IS IN ACCORDANCE WITH: LUCENT PRACTICES - NONE.
- 52. THIS DOCUMENT CONTAINS COMPLETE ENGINEERING INFORMATION FOR THE SUBJECT EQUIPMENT. JOB INFORMATION SHALL BE RECORDED BY LIST OR GROUP.
- 53. IN TABLE A, DESCRIPTION FIELD, INFORMATION ENCLOSED IN < > INDICATES INFORMATION FOR REPORT PURPOSES ONLY.
- 54. THE CABLES SPECIFIED PER LISTS B THRU D ARE PROVIDED IN 10, 25 AND 50 FOOT LENGTHS. ONLY THE SHORTEST PRACTICAL LENGTH SHOULD BE ORDERED FOR EACH APPLICATION.
- 55. CABLE ADAPTER KITS PROVIDED WITH LISTS 5,6,6A,7,9 & 9A MUST BE ASSEMBLED PER CAD FIGURES 13 THRU 15 OF SD5D507-01 FOR EACH CONFIGURATION AS REQUIRED.
- 56. FOR METHOD OF CABLING AND INTERCABINET CABLES SEE ED5D726-11.
- 58. SHORT HAUL MODEMS ARE REQUIRED FOR ANY DISTANCE EXCEEDING 50 FEET (15.24M) BUT LESS THAN 4 MILES (6.44KM), LONG HAUL MODEMS ARE REQUIRED FOR ALL DISTANCES OVER 4 MILES (6.44KM), TRANSMITTING AT 9600 BAUD.
- 59. MOBILE CART, MONITOR AND KEYBOARD SHOWN IN FIGURE 12 CAN BE CONNECTED TO AN APS OR CSS ON AN "AS REQUIRED" BASIS. A MINIMUM OF ONE MOBILE CART/MONITOR/KEYBOARD IS REQUIRED PER CLUSTER.
- 60. FIGURES 5,6,7,8,9,10 AND 11 INDICATE CONNECTIONS FROM THE CSS TO:
 - A. MODEMS
 - B. TERMINALS
 - C. PRINTERS
 - D. DATAKIT
- 61. DEPENDING ON THE CUSTOMER'S NEEDS VARIOUS ARRANGEMENTS ARE POSSIBLE:
 - A. DATA LINK TO SCCS (SWITCHING CONTROL CENTER SYSTEM) IS NEEDED TO MONITOR THE CLUSTER. FIGURE 7 IS THE OPTION VIA DATA KIT USING THE IPC PORTS CARD RS-232 CONNECTION. AS AN ALTERNATIVE THE SAME CONNECTIVITY CAN BE ACCOMPLISHED USING THE COM 2 PORT. SEE FIGURE 10 FOR DETAILS. IF THE CUSTOMER HAS NO ACCESS TO DATA KIT FOR SCCS, THEN A LONG HAUL MODEMCAN BE USED INSTEAD OF DATAKIT. SEE FIGURE 6 FOR DETAILS.
 - B. THE CUSTOMER, AT HIS OPTION, CAN INSTALL A REMOTE TERMINAL AT SCCS, FMC AND MCC; THESE ARE DESIRABLE OPTIONS. IT IS STRONGLY RECOMMENDED THAT THE CUSTOMER PROVIDE A PORT AND CONNECTION FOR USE BY AT&T FIELD SUPPORT. SEE FIGURE 6 FOR DETAILS VIA MODEM AND FIGURE 7 FOR DETAILS VIA DATAKIT.
 - C. THE CUSTOMER, AT HIS OPTION, CAN INSTALL A REMOTE PRINTER AT FMC AND MCC. THIS IS A DESIRABLE OPTION. SEE FIGURE 6 FOR DETAILS VIA MODEM AND FIGURE 7 FOR DETAILS VIA DATA KIT. THERE ARE ONLY TWO PORTS DESIGNATED FOR PRINTER CONNECTION TO CSS. THEY ARE THE IPC PORTS 1 AND 2 SHOWN ON SD5D507-01, F55. IPC PORTS 1 AND 2 ARE DESIGNATED FOR TTY-H01 AND TTY-H02 RESPECTIVELY IN UNIX.
 - D. FIGURE 8 SHOWS THE CONNECTIONS FOR A LOCAL PRINTER OR TERMINAL CONNECTED DIRECTLY TO THE IPC RS-232 PORTS BOARD. HOWEVER THERE IS NO SPECIFIC REQUIREMENT PLACED ON THE CLUSTER TO USE THIS LOCAL CONNECTION.
 - E. FIGURE 9 SHOWS THE CONNECTIONS FOR A LOCAL TERMINAL CONNECTED DIRECTLY TO THE COM 1 PORT OF THE CSS. NO OTHER CONNECTION IS ALLOWED ON THE COM 1 PORT OTHER THAN A TERMINAL. HOWEVER THERE IS NO SPECIFIC REQUIREMENT TO USE THIS FEATURE.

62. IPIB CARDS PER LIST 11 ARE EQUIPPED IN THE APS UNITS AS FOLLOWS:

CIRCUIT	LIST 11 EQUIPPED	APS UNIT CIRCUIT PACK POS.
AP0	1ST	1
AP1	2ND	2
AP2	3RD	4
AP3	4TH	5
AP4	5TH	6
AP5	6TH	7
AP6	7TH	9
AP7	8TH	10

63. FOR SPARING INFORMATION SEE ED5D748-10.

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SPECIFICATION FOR
OPERATOR SERVICES POSITION SYSTEM
AUTOMATED POSITION CLUSTER
CABINETS
(OSPS-AP)

DWG SIZE
C2

ISSUE
22

TABLE A-FEATURES											
EQUIPMENT		EQUIPMENT OR CIRCUIT DATA						SD EQUIVALENT			
DESCRIPTION	REF NOTE	RAT-ING	LIST OR GROUP	QTY	EQUIPMENT OR CIRCUIT	L/G OR FIG	WRG	APP	SCHEMATIC	FIG	OPT
CABINET, ASSEMBLY, WIRING AND EQUIPMENT FOR ONE AUTOMATIC POSITION SYSTEM CONTROL CABINET. ARRANGED FOR ONE CONVERSANT CLUSTER SUPPORT SYSTEM UNIT (CSS). DA EFF:10/12/92 FE:J5D049A-1,L1A		DA	1	1	J89051A-1	1			SD82619-01		
CABINET, ASSEMBLY, WIRING AND EQUIPMENT FOR ONE AUTOMATIC POSITION SYSTEM CONTROL CABINET. ARRANGED FOR ONE CONVERSANT CLUSTER SUPPORT SYSTEM UNIT (CSS) MOUNTED IN A CLASSIC CABINET. DA EFF:07/23/01 FE/RA:NONE		DA	1A	1	J89051A-1	2			SD82619-01		
EQUIPMENT REQUIRED IN ADDITION TO LIST 1 OR 1A TO PROVIDE ONE CONVERSANT CLUSTER SUPPORT SYSTEM UNIT (CSS). DA EFF:05/15/96 RA:J5D049A-1,L16	66	DA	2	1					SD5D507-01		
CABINET, WIRING AND EQUIPMENT FOR ONE AUTOMATIC POSITION SYSTEM CABINET. ARRANGED FOR TWO CONVERSANT AUTOMATIC POSITION SYSTEM UNITS (APS). DA EFF:10/12/92 FE:J5D049A-1,L3A		DA	3	1	ED5D184-74	1			SD5D507-01	1	
CABINET, WIRING AND EQUIPMENT FOR ONE AUTOMATIC POSITION SYSTEM CABINET. ARRANGED FOR TWO CONVERSANT AUTOMATIC POSITION SYSTEM UNITS (APS) OR ONE AUTOMATIC POSITION SYSTEM UNIT (APS) AND ONE DATA COLLECTION SYSTEM UNIT (DCS) OR ONE DATA COLLECTION SYSTEM UNIT (DCS) ALONE MOUNTED IN A CLASSIC CABINET. DA EFF:07/23/01 FE/RA:NONE		DA	3A	1	ED5D184-74	3			SD5D507-01	1	
EQUIPMENT REQUIRED IN ADDITION TO LIST 3 OR 3A. PROVIDES ONE CONVERSANT AUTOMATED POSITION SYSTEM -4 UNIT (APS-4). DA EFF:05/15/96 FE/RA:NONE	66 81	DA	4	1							
EQUIPMENT REQUIRED IN ADDITION TO LIST 1 OR 1A PROVIDES ONE ADMINISTRATIVE PRINTER. DA EFF:03/10/95 FE:J5D049A-1,L5A	55	DA	5	1							
EQUIPMENT REQUIRED IN ADDITION TO LIST 1 OR 1A PROVIDES ONE ADMINISTRATIVE PRINTER. REPL:J5D049A-1,L5 DA EFF:07/23/01 FE/RA:NONE	55	DA	5A	1							
EQUIPMENT REQUIRED IN ADDITION TO LIST 1. PROVIDES ONE SHORT HAUL MODEM. DA EFF:11/14/91 FE:J5D049A-1,L6A	55	DA	6	1							
EQUIPMENT REQUIRED IN ADDITION TO LIST 1 OR 1A PROVIDES ONE SHORT HAUL MODEM. DA EFF:12/11/98 FE:J5D049A-1,L6B	55 58	DA	6A	1							
EQUIPMENT REQUIRED IN ADDITION TO LIST 1 OR 1A PROVIDES ONE SHORT HAUL MODEM. REPL:J5D049A-1,L6A DA EFF:07/23/01 FE/RA:NONE	58	DA	6B	1							

TABLE-A CONTINUED

TABLE A-FEATURES (CONTINUED)											
EQUIPMENT		EQUIPMENT OR CIRCUIT DATA						SD EQUIVALENT			
DESCRIPTION	REF NOTE	RAT-ING	LIST OR GROUP	QTY	EQUIPMENT OR CIRCUIT	L/G OR FIG	WRG	APP	SCHEMATIC	FIG	OPT
EQUIPMENT REQUIRED IN ADDITION TO LIST 1 OR 1A PROVIDES ONE ADMINISTRATIVE TERMINAL. DA EFF:07/23/01 FE/RA:NONE	55	DA	7	1							
EQUIPMENT REQUIRED IN ADDITION TO LIST 2. PROVIDES ONE MOBILE CART, MONITOR, KEYBOARD AND CABLES. DA EFF:07/23/01 FE/RA:NONE	59	DA	8	1							
EQUIPMENT REQUIRED IN ADDITION TO LIST 1. PROVIDES ONE LONG HAUL MODEM. DA EFF:11/14/91 FE:J5D049A-1,L9A	55	DA	9	1							
EQUIPMENT REQUIRED IN ADDITION TO LIST 1 OR 1A PROVIDES ONE LONG HAUL MODEM. DA EFF:07/23/01 FE/RA:NONE	55 58	DA	9A	1							
EQUIPMENT REQUIRED IN ADDITION TO LIST 3 OR 3A PROVIDES ONE CONVERSANT AUTOMATED POSITION SYSTEM -8 UNIT (APS-8). DA EFF:03/10/95 RA:J5D049A-1,L14	66 77	DA	10	1							
REQUIRED IN ADDITION TO LIST 4 OR 10. PROVIDES ONE INTELLIGENT PC INTERFACE BOARD (IPIB).(4 REQD FOR LIST 4, 8 REQD FOR LIST 10). DA EFF:03/10/95 FE:J5D049A-1,L11A	64	DA	11	1							
REQUIRED IN ADDITION TO LIST 4 OR 10, OR 14 PROVIDES ONE ENHANCED INTELLIGENT PC INTERFACE BOARD (EIPB). (4 REQD FOR LIST 4, 8 REQD FOR LIST 10, 14.) REPL:J54049A-1,L11 DA EFF:07/23/01 FE/RA:NONE	64	DA	11A	1							
EQUIPMENT REQUIRED TO PROVIDE A VRCP PORT INTERFACE PANEL. REPL:NONE DA EFF:12/11/98 FE:J5D049A-1,L26	69 75	DA	12	1					SD5D507-01	(1)	
EQUIPMENT REQUIRED IN ADDITION TO LIST 3A. PROVIDES ONE DATA COLLECTION SYSTEM (DCS) UNIT (MAX. 1 PER CLUSTER). DA EFF:05/15/96 FE/RA:NONE	66 72 73 74 75 80	DA	13	1					SD5D507-01		
EQUIPMENT REQUIRED IN ADDITION TO LIST 3 OR 3A PROVIDES ONE 486/SCSI BASED CONVERSANT AUTOMATED POSITION SYSTEM - 8 (APS-8). FOR AT&T CUSTOMER ONLY. REPL:J5D049A-1,L10 DA EFF:12/11/98 FE/RA:NONE	66 78	DA	14	1					SD5D507-01		

TABLE-A CONTINUED

J5D049A-1

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5ESS SWITCHING SYSTEM
SPECIFICATION FOR
OPERATOR SERVICES POSITION SYSTEM
AUTOMATED POSITION CLUSTER
CABINETS
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DWG SIZE
C2

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OF 19

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TABLE A-FEATURES (CONTINUED)												
EQUIPMENT		RAT-ING	LIST OR GROUP	EQUIPMENT OR CIRCUIT DATA					SD EQUIVALENT			
DESCRIPTION	REF NOTE			QTY	EQUIPMENT OR CIRCUIT	L/G OR FIG	WRG	APP	SCHEMATIC	FIG	OPT	
EQUIPMENT REQUIRED FOR OSPS-AP HARDWARE FIELD UPGRADE FROM LIST ITEM 10 (APS-8) TO A 486 / SCSI BASED CONVERSANT AUTOMATED POSITION SYSTEM - 8 (APS-8) DA EFF:12/11/98 FE/RA:NONE	78	DA	15	1				SD5D507-01				
EQUIPMENT REQUIRED IN ADDITION TO LIST 1 OR 1A PROVIDES ONE 486/SCSI BASED CONVERSANT CLUSTER SUPPORT SYSTEM (CSS) REPL:J5D049A-1,L2 DA EFF:12/11/98 FE/RA:NONE	66 78	DA	16	1				SD5D507-01				
EQUIPMENT REQUIRED FOR OSPS-AP HARDWARE FIELD UPGRADE FROM LIST ITEM 2 (CSS) TO A 486/SCSI BASED CONVERSANT CLUSTER SUPPORT SYSTEM (CSS) DA EFF:12/11/98 FE/RA:NONE	66 78	DA	17	1				SD5D507-01				
EQUIPMENT REQUIRED TO PROVIDE SSP (SPEECH AND SIGNAL PROCESSOR) UPGRADE KIT TO UPRGD FROM LIST 14 TO AN APS-8 486/SCSI BASED UNIT WITH SSP. (LIST IS APPLICABLE TO AT&T CUSTOMER ONLY.) DA EFF:12/11/98 FE/RA:NONE	66 78	DA	18	1				SD5D507-01				
EQUIPMENT REQUIRED IN ADDITION TO LIST 3 OR 3A TO PROVIDE ONE APS-8 486/SCSI BASED UNIT WITH SSP (SPEECH AND SIGNAL PROCESSOR). LIST IS APPLICABLE TO LEC/AABS CUSTOMER ONLY. REPL:J5D049A-1,L10 DA EFF:12/11/98 FE/RA:NONE	66 78	DA	19	1				SD5D507-01				
EQUIPMENT REQUIRED TO PROVIDE HARDWARE FIELD UPGRADE KIT TO UPGRADE FROM LIST 10 (APS-8) TO A 486/SCSI BASED UNIT WITH SSP (SPEECH SIGNAL PROCESSOR). LIST IS APPLICABLE TO LEC/AABS CUSTOMER ONLY. DA EFF:12/11/98 FE/RA:NONE	66 78	DA	20	1				SD5D507-01				
EQUIPMENT REQUIRED IN ADDITION TO LIST 3 OR 3A PROVIDES ONE 486/SCSI BASED CONVERSANT AUTOMATED POSITION SYSTEM - 8 (APS-8) WITH SSP (SPEECH SIGNAL PROCESSOR). LIST IS APPLICABLE TO AT&T CUSTOMER ONLY. DA EFF:12/11/98 FE/RA:NONE	66 78	DA	21	1				SD5D507-01				
EQUIPMENT REQUIRED IN ADDITION TO LIST 3 OR 3A TO PROVIDE ONE APS-8 486/SCSI BASED UNIT WITH SSP (SPEECH SIGNAL PROCESSOR). LIST IS APPLICABLE TO LEC/RAP (RECORD, ANNOUNCEMENT, PLAYBACK) CUSTOMERS ONLY. REPL:J5D049A-1,L10 DA EFF:12/11/98 FE/RA:NONE	66 78	DA	22	1				SD5D507-01				
EQUIPMENT REQUIRED IN ADDITION TO LIST 3 OR 3A TO PROVIDE ONE APS-8 486/SCSI BASED UNIT WITH SSP (SPEECH SIGNAL PROCESSOR). LIST IS APPLICABLE TO LEC/ADAS (AUTOMATED DIRECTORY ASSISTANCE SYSTEM) CUSTOMERS ONLY. REPL:J5D049A-1,L10 DA EFF:12/11/98 FE/RA:NONE	66 78	DA	23	1				SD5D507-01				

TABLE-A CONTINUED

TABLE A-FEATURES (CONTINUED)												
EQUIPMENT		RAT-ING	LIST OR GROUP	EQUIPMENT OR CIRCUIT DATA					SD EQUIVALENT			
DESCRIPTION	REF NOTE			QTY	EQUIPMENT OR CIRCUIT	L/G OR FIG	WRG	APP	SCHEMATIC	FIG	OPT	
EQUIPMENT REQUIRED TO PROVIDE ONE YEAR 2000 CUSTOMER SUPPORT SYSTEM (CSS) UPGRADE KIT. REPL:NONE DA EFF:07/23/01 FE/RA:NONE		DA	25									
EQUIPMENT REQUIRED TO PROVIDE ONE YEAR 2000 AUTOMATED POSITION SYSTEM (APS) UPGRADE KIT. REPL:NONE DA EFF:07/23/01 FE/RA:NONE		DA	26									
EQUIPMENT REQUIRED TO PROVIDE LOCAL AREA NETWORK HUBS. REPL:NONE DA EFF:07/23/01 FE/RA:NONE		DA	27									
EQUIPMENT REQUIRED TO PROVIDE A FIBER MODULE FOR A 12 PORT LAN HUB. REPL:NONE DA EFF:07/23/01 FE/RA:NONE		DA	28									
EQUIPMENT REQUIRED TO PROVIDE A SNMP MANAGEMENT MODULE FOR A 12 PORT LAN HUB. REPL:NONE DA EFF:07/23/01 FE/RA:NONE		DA	29									
EQUIPMENT REQUIRED TO PROVIDE AN ETHERNET MODULE FOR A 12 PORT LAN HUB. REPL:NONE DA EFF:07/23/01 FE/RA:NONE		DA	30									
WIRING TO PROVIDE LAN CABLE FOR CSS, APS 1-6. (ONE PER CSS, APS) REPL:NONE DA EFF:07/23/01 FE/RA:NONE		DA	31									
WIRING TO PROVIDE LAN CABLE FOR CSS, APS 7-12. (ONE PER CSS, APS) REPL:NONE DA EFF:06/23/01 FE/RA:NONE		DA	32									
WIRING TO PROVIDE LAN CABLE FOR CSS, APS 13-18. (ONE PER CSS, APS) REPL:NONE DA EFF:07/23/01 FE/RA:NONE		DA	33									
WIRING TO PROVIDE LAN CABLE FOR CSS, APS 19-25. (ONE PER CSS, APS) REPL:NONE DA EFF:07/23/01 FE/RA:NONE		DA	34									

TABLE-A CONTINUED

J5D049A-1

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BT13

5ESS SWITCHING SYSTEM
SPECIFICATION FOR
OPERATOR SERVICES POSITION SYSTEM
AUTOMATED POSITION CLUSTER
CABINETS
(OSPS-AP)

DWG SIZE
C2

ISSUE
22

LUCENT TECHNOLOGIES INC J5D049A-1

SHEET A4
OF 19

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TABLE A-FEATURES (CONTINUED)											
EQUIPMENT		EQUIPMENT OR CIRCUIT DATA							SD EQUIVALENT		
DESCRIPTION	REF NOTE	RAT-ING	LIST OR GROUP	QTY	EQUIPMENT OR CIRCUIT	L/G OR FIG	WRG	APP	SCHEMATIC	FIG	OPT
SERVICE FEE REQUIRED FOR THE INSTALLATION OF ASM II UPGRADE. REPL:NONE DA EFF:07/23/01 FE/RA:NONE		DA	35								
ALWAYS REQUIRED IN ADDITION TO LIST 2, 4, 10, 13, 14, 16, 19 OR 21 PROVIDES GROUND STRAP DA EFF:12/11/98 FE/RA:NONE		DA	A	1							
REQUIRED IN ADDITION TO LISTS 5, 6, 6A, 7, 9 OR 9A. PROVIDES ONE 10' CABLE. DA EFF:07/23/01 FE/RA:NONE	54	DA	B	1							
REQUIRED IN ADDITION TO LISTS 5, 6, 6A, 7, 9 OR 9A. PROVIDES ONE 25' CABLE. DA EFF:07/23/01 FE/RA:NONE	54	DA	C	1							
REQUIRED IN ADDITION TO LISTS 5, 6, 6A, 7, 9 OR 9A. PROVIDES ONE 50' CABLE. DA EFF:07/23/01 FE/RA:NONE	54	DA	D	1							
REQUIRED IN ADDITION TO LIST 1 OR 3 FOR CENTRAL OFFICE APPLICATIONS. PROVIDES STANDARD CENTER OPENING DOORS AND DOOR FRAMES. DA EFF:10/12/92 FE:J5D049A-1,LS		DA	E	2	ED5D184-76 ED5D184-74	1 2					
REQUIRED IN ADDITION TO LIST 1 OR 3 FOR PBX APPLICATIONS. PROVIDES EMI SHIELDED DOORS AND DOOR FRAMES. DA EFF:10/12/92 FE:J1S049A-1,LT		DA	F	2							
REQUIRED IN ADDITION TO LIST 4, 10, 13, 14, 19 OR 21 PROVIDES LAN CABLE FROM THE PRECEEDING UNIT IN THE SAME CABINET OR FROM THE PRECEEDING ADJJACENT CABINET. (MAX. 1 PER LIST 4, 10, 13, 14 19 OR 21.) DA EFF:12/11/98 FE/RA:NONE		DA	G	1							
WIRING REQUIRED IN ADDITION TO THE FIRST LIST 4 PER CABINET. PROVIDES LAN CABLE FROM THE PRECEDING ADJACENT CABINET. DA EFF:11/15/91 FE:J5D049A-1,LG		DA	H	1							
REQUIRED IN ADDITION TO LIST 1, 1A, 13, 14, 16, 19 OR 21 PROVIDE ONE INDICATOR FUSE AND ONE LOAD FUSE. DA EFF:07/23/01 FE/RA:NONE	79	DA	J	1							
REQUIRED IN ADDITION TO LIST 2. PROVIDES DB9 MALE TO RJ45 FEMALE CABLE ADAPTER DA EFF:12/11/98 FE/RA:NONE		DA	K	1							
REQUIRED IN ADDITION TO LIST 2. PROVIDES RJ45 MALE TO DB25 FEMALE CABLE ADAPTER. DA EFF:12/11/98 FE/RA:NONE	71	DA	L	1							
REQUIRED IN ADDITION TO LIST L. PROVIDES DB25 MALE TO RJ45 FEMALE CABLE ADAPTER. DA EFF:12/11/98 FE/RA:NONE		DA	M	1							

TABLE-A CONTINUED

J5D049A-1

TABLE A-FEATURES (CONTINUED)											
EQUIPMENT		EQUIPMENT OR CIRCUIT DATA							SD EQUIVALENT		
DESCRIPTION	REF NOTE	RAT-ING	LIST OR GROUP	QTY	EQUIPMENT OR CIRCUIT	L/G OR FIG	WRG	APP	SCHEMATIC	FIG	OPT
REQUIRED IN ADDITION TO LIST L. PROVIDES ONE 10 FOOT (3.05M) RJ45 CABLE DA EFF:12/11/98 FE/RA:NONE		DA	N	1							
REQUIRED IN ADDITION TO LIST L. PROVIDES ONE 25 FOOT (7.62M) RJ45 CABLE DA EFF:12/11/98 FE/RA:NONE		DA	P	1							
REQUIRED IN ADDITION TO LIST L. PROVIDES ONE 50 FOOT (15.24M) RJ45 CABLE DA EFF:12/11/98 FE/RA:NONE		DA	R	1							
REQUIRED IN ADDITION TO LIST 1A OR 3A FOR CENTRAL OFFICE APPLICATIONS. PROVIDES STANDARD CENTER OPENING DOORS. DA EFF:07/23/01 FE/RA:NONE	67	DA	S	2	ED5D184-76	1					
EQUIPMENT REQUIRED IN ADDITION TO LIST 1A OR 3A FOR INSTALLATIONS SUBJECT TO EMC REQUIREMENTS. PROVIDES DOORS AND GASKETS. DA EFF:07/23/01 FE/RA:NONE	67 68	DA	T	2	ED5D184-76	2					
PROVIDES MODULAR TEL JACK ADAPTER. REPL:NONE DA EFF:07/23/01 FE/RA:NONE		DA	V								
REQUIRED IN ADDITION TO LIST 2, 10, 13, 14, 16, 21 PROVIDES INFORMATION TO LOAD TEST SOFTWARE FOR NETWORK SERVICES DIVISION (NSD) CUSTOMER ONLY. REPL:NONE DA EFF:07/23/01 FE/RA:NONE	67 76	DA	W								
REQUIRED IN ADDITION TO LIST 2, 4, 10, 16, 19, 22, 23 PROVIDES INFORMATION TO LOAD TEST SOFTWARE FOR LOCAL EXCHANGE CARRIER (LEC) CUSTOMERS REPL:NONE DA EFF:07/23/01 FE/RA:NONE	67 76	DA	X								

END OF TABLE-A

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BT13

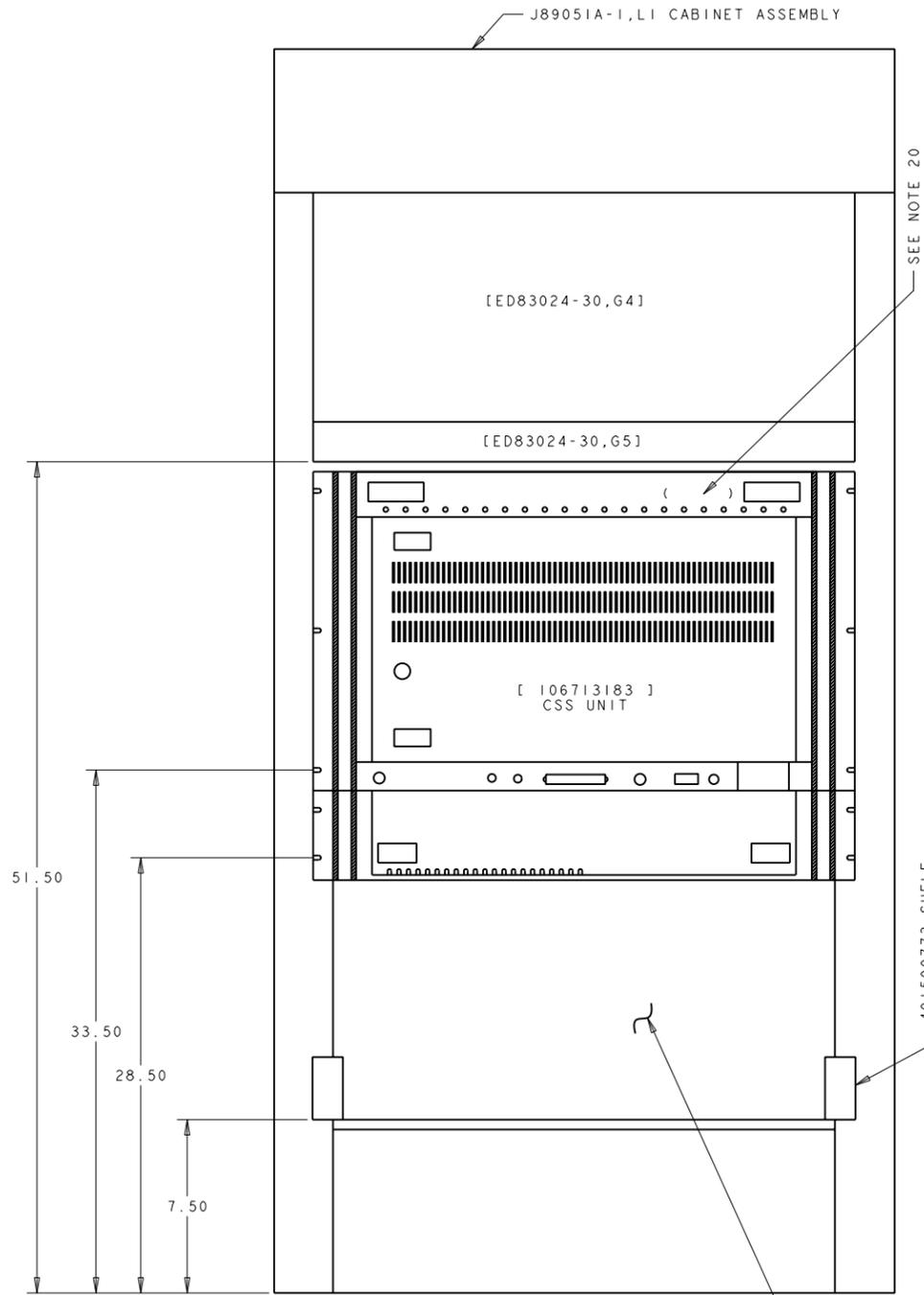
5ESS SWITCHING SYSTEM
SPECIFICATION FOR
OPERATOR SERVICES POSITION SYSTEM
AUTOMATED POSITION CLUSTER
CABINETS
(OSPS-AP)

DWG SIZE C2 ISSUE 22

LUCENT TECHNOLOGIES INC J5D049A-1

SHEET A5 OF 19

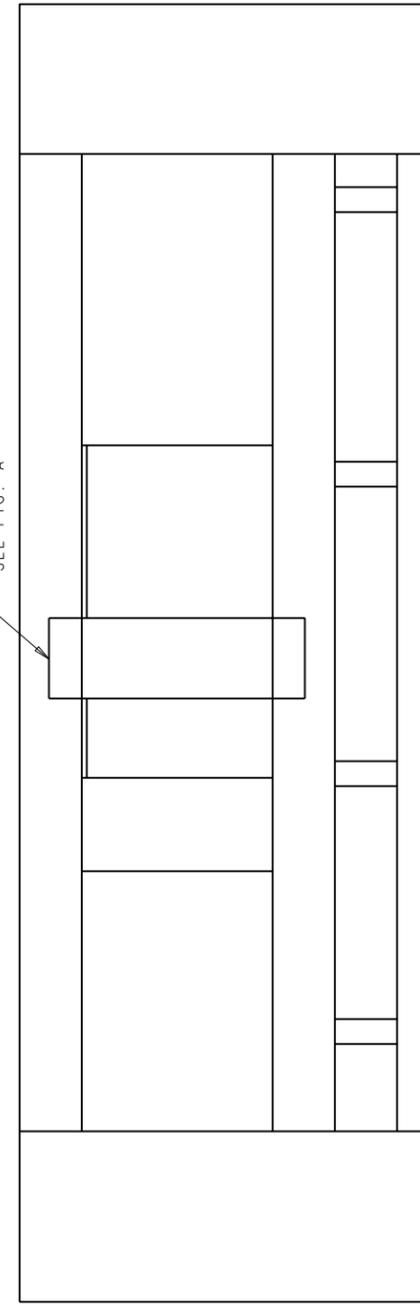
PRINTED IN U.S.A.



FRONT VIEW

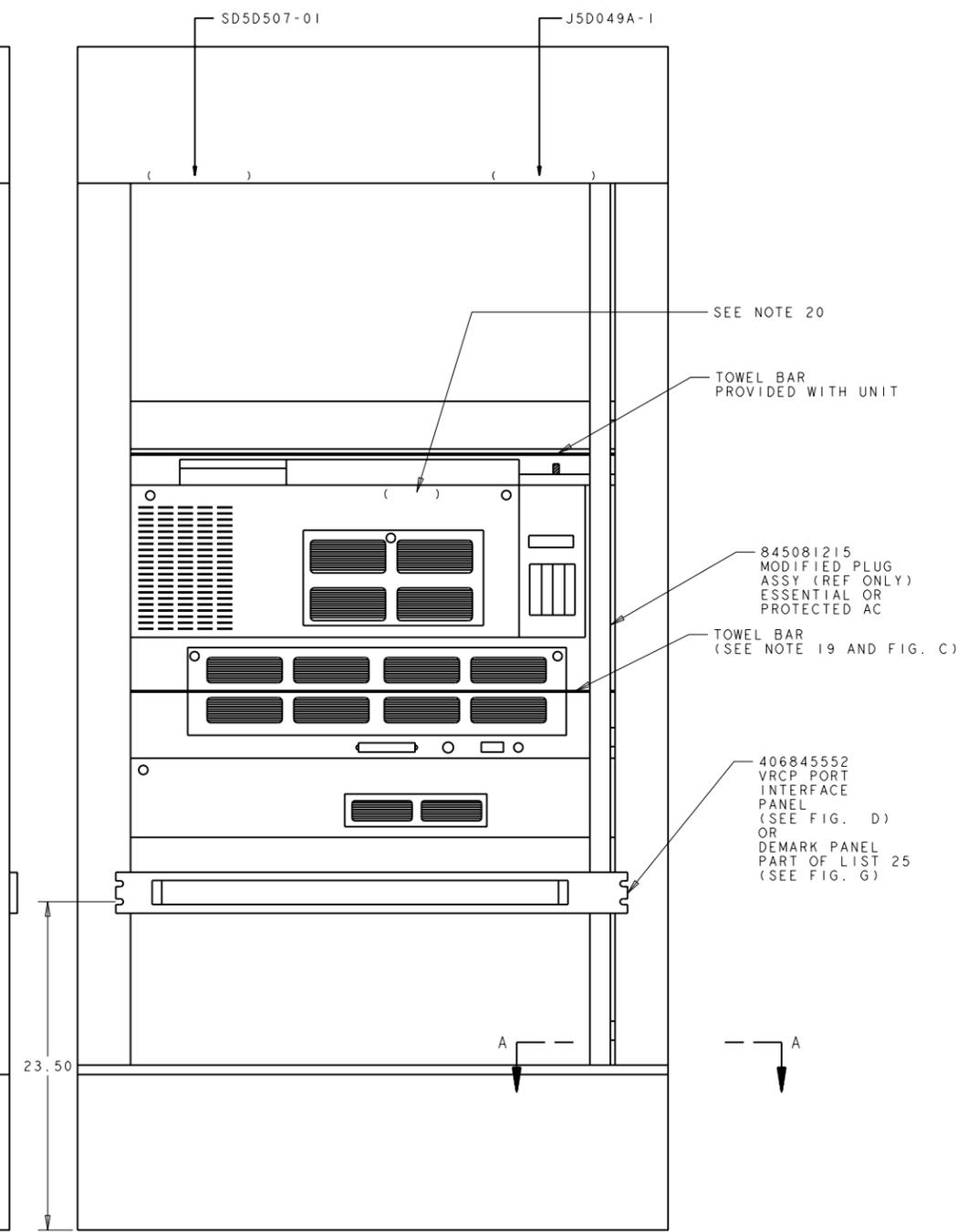
LONG OR SHORT
HAUL MODEMS MAY
BE STACKED IN
THIS AREA AS
REQUIRED

BRACKET PROVIDED WITH UNIT
SEE FIG. A



SIDE VIEW
FIG. 1

SHOWN WITHOUT DOORS
AND SIDE PANELS



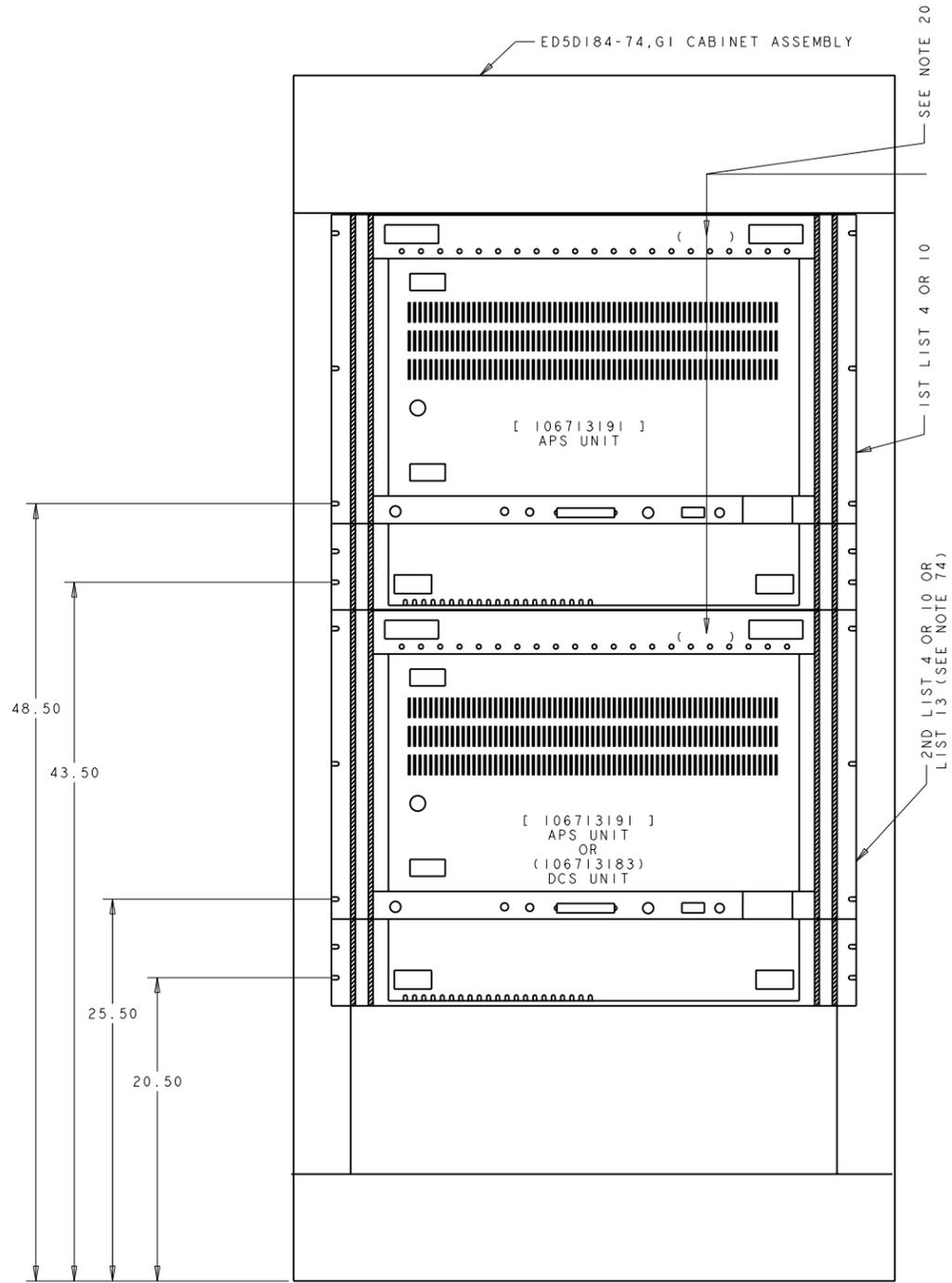
REAR VIEW

PROJ-EGEDFORM, FRM-FEB 96

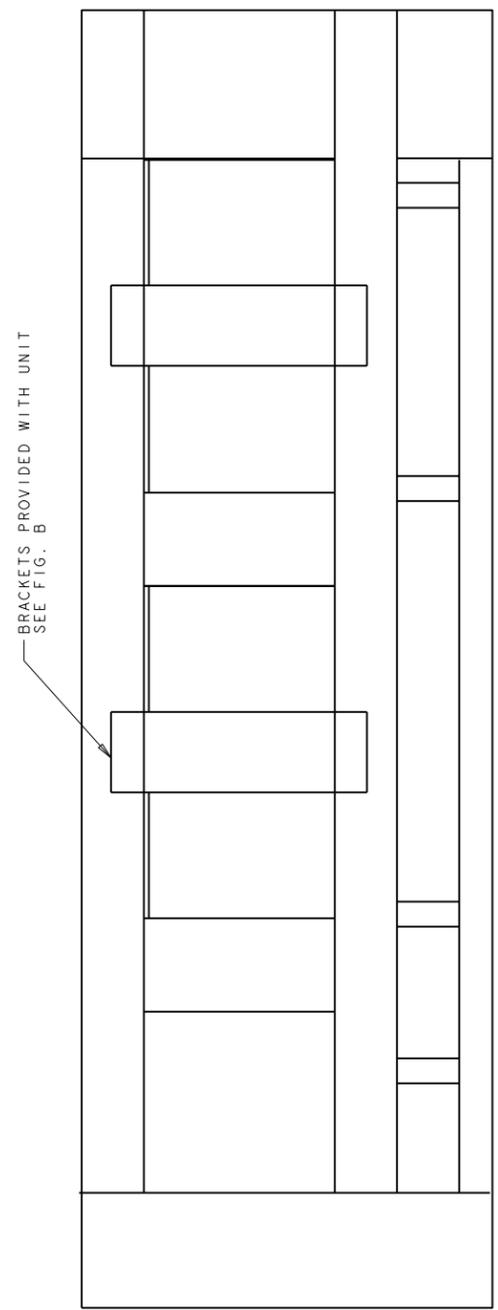
J5D049A-1

FOR PROPRIETARY NOTICE SEE SHEET A1		THIRD ANGLE PROJ	
AUTOMATED POSITION CLUSTER			
(P)	DWG SIZE C2	ISSUE 20	
LUCENT TECHNOLOGIES	J5D049A-1	SHEET NO. B1	

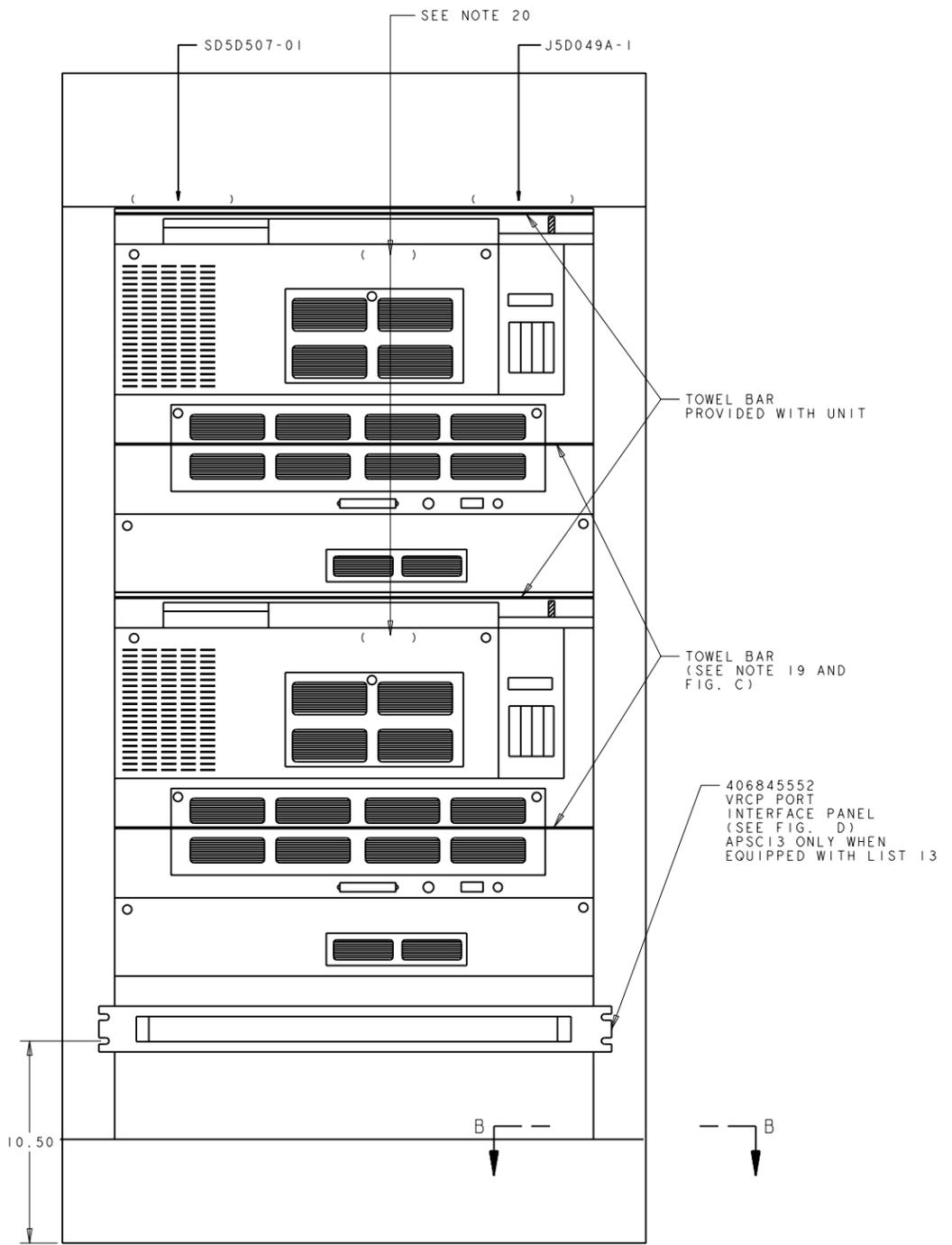
12PORT_HUB



FRONT VIEW



SIDE VIEW
FIG. 2 DA
SHOWN WITHOUT DOORS
AND SIDE PANELS



REAR VIEW

PROJ-EGEDFORM.FRM-FEB-96

J5D049A-1

FOR PROPRIETARY NOTICE SEE SHEET A1		THIRD ANGLE PROJ	
AUTOMATED POSITION CLUSTER			
(P)	DWG SIZE C2	ISSUE 20	
LUCENT TECHNOLOGIES	J5D049A-1	SHEET NO. B2	

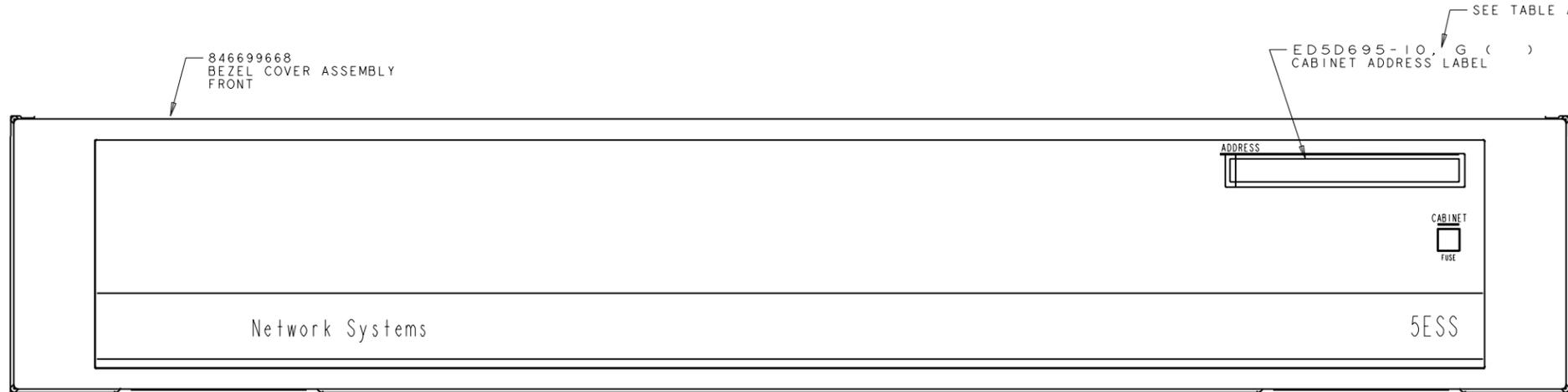
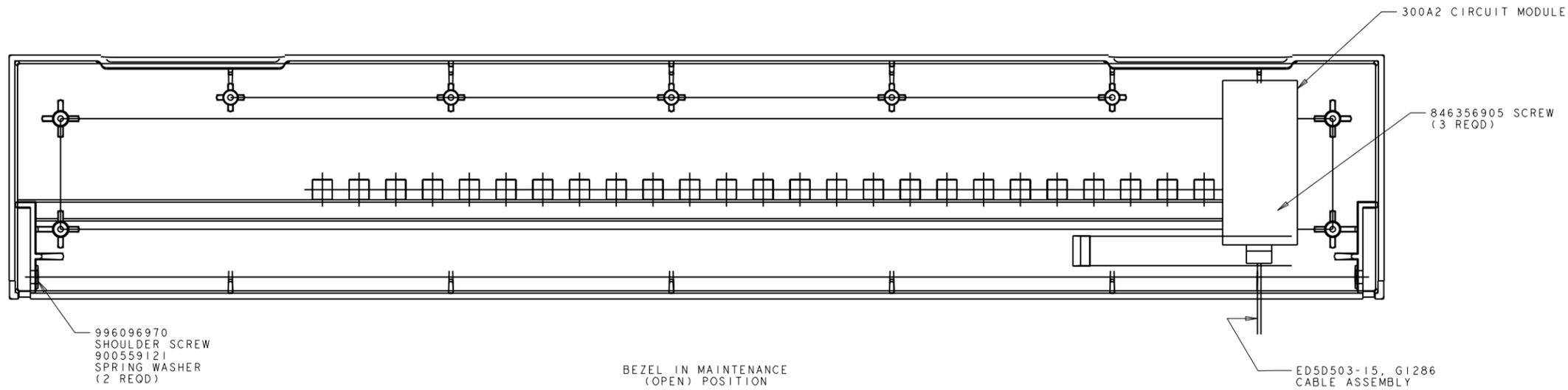


FIG. 3
BEZEL COVER ASSEMBLY, FRONT

TABLE AA

ED5D695-10 GROUP NUMBER	CABINET LABEL	
	CLUSTER	CABINET POS NO.
2229	APC01	APSC00
2230	APC01	APSC01
2231	APC01	APSC02
2232	APC01	APSC03
2233	APC01	APSC04
2234	APC01	APSC05
2235	APC01	APSC06
2236	APC01	APSC07
2237	APC01	APSC08
2238	APC01	APSC09
2239	APC01	APSC10
2240	APC01	APSC11
2241	APC01	APSC12
2242	APC01	APSC13
2257	APC01	DCSC00
2243	APC02	APSC00
2244	APC02	APSC01
2245	APC02	APSC02
2246	APC02	APSC03
2247	APC02	APSC04
2248	APC02	APSC05
2249	APC02	APSC06
2250	APC02	APSC07
2251	APC02	APSC08
2252	APC02	APSC09
2253	APC02	APSC10
2254	APC02	APSC11
2255	APC02	APSC12
2256	APC02	APSC13
2258	APC02	DCSC00

ED5D694-30,G2 FOR LIST 3 OR
846424596 FOR LIST 1
BEZEL COVER ASSEMBLY

SEE TABLE AA
ED5D695- O, G ()
CABINET ADDRESS LABEL

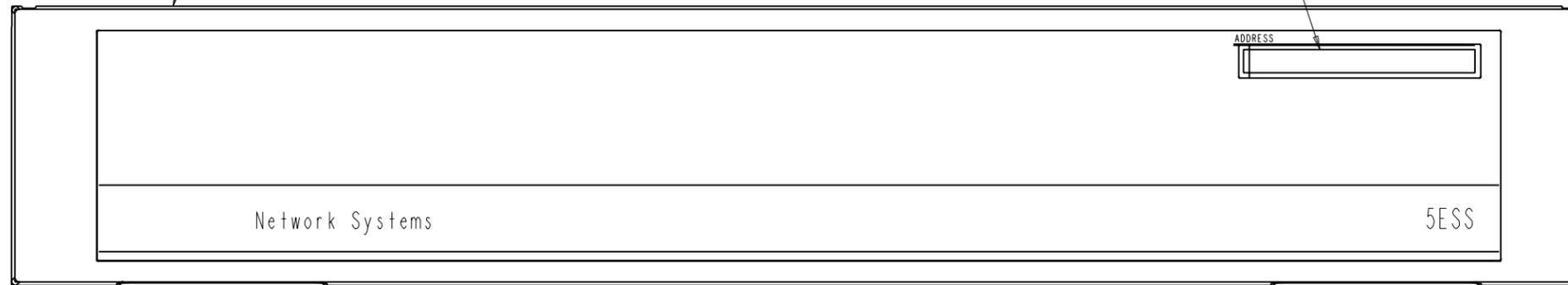


FIG. 4
BEZEL COVER ASSEMBLY, REAR

TABLE BB
UNIT DESIGNATIONS

CLUSTER	CABINET	UNIT DESIGNATION	
		TOP UNIT	BOTTOM UNIT
APC01	APSC00	CSS01	
	APSC01	APS01	APS02
	APSC02	APS03	APS04
	APSC03	APS05	APS06
	APSC04	APS07	APS08
	APSC05	APS09	APS10
	APSC06	APS11	APS12
	APSC07	APS13	APS14
	APSC08	APS15	APS16
	APSC09	APS17	APS18
	APSC10	APS19	APS20
	APSC11	APS21	APS22
	APSC12	APS23	APS24
APSC13	APS25	DCS01 *	
APC02	APSC00	CSS02	
	APSC01	APS01	APS02
	APSC02	APS03	APS04
	APSC03	APS05	APS06
	APSC04	APS07	APS08
	APSC05	APS09	APS10
	APSC06	APS11	APS12
	APSC07	APS13	APS14
	APSC08	APS15	APS16
	APSC09	APS17	APS18
	APSC10	APS19	APS20
	APSC11	APS21	APS22
	APSC12	APS23	APS24
APSC13	APS25	DCS01 *	

REPEAT AS REQUIRED
SEE NOTE 70
* SEE NOTE 74

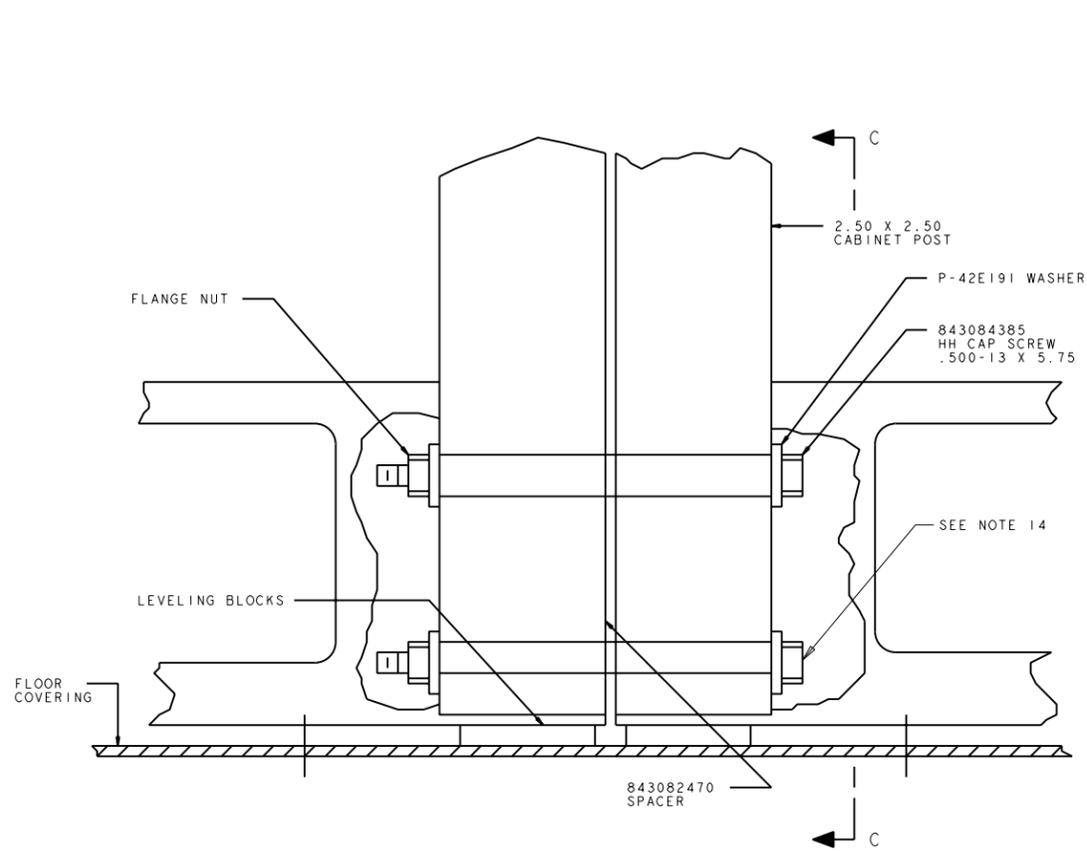
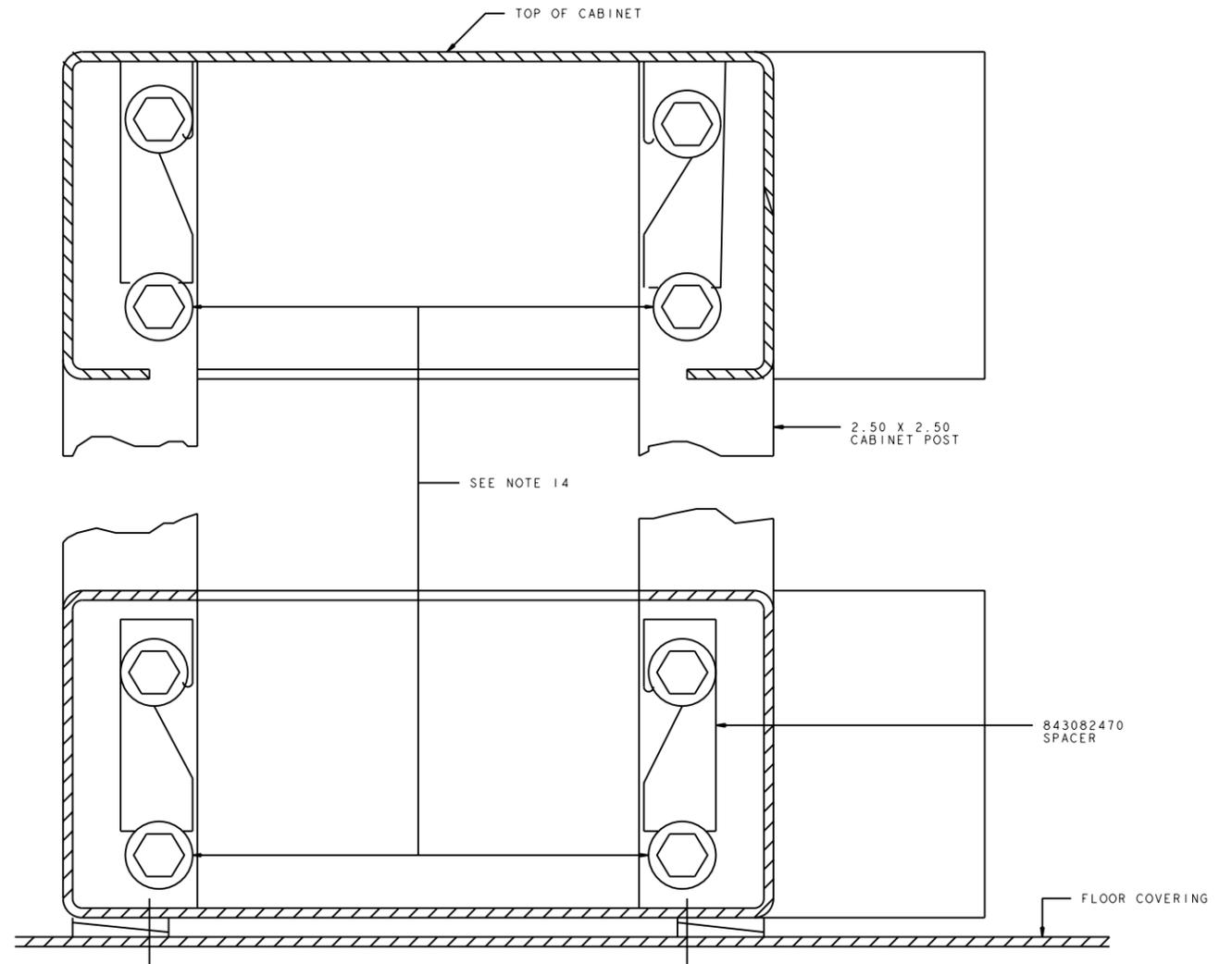
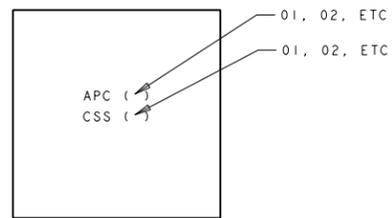


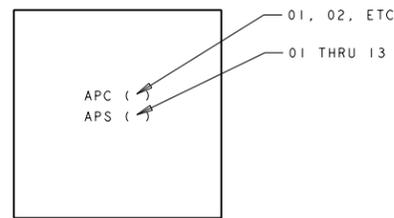
FIG. 5
FRONT VIEW
(DOORS REMOVED)
METHOD OF JUNCTIONING ONE CABINET TO ANOTHER CABINET



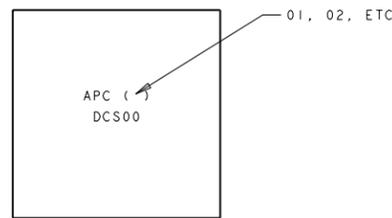
VIEW C-C
(SEE NOTE 13 & 15)



VIEW A-A
SHOP STAMPING
FOR FIG. 1



VIEW B-B
SHOP STAMPING
FOR FIG. 2

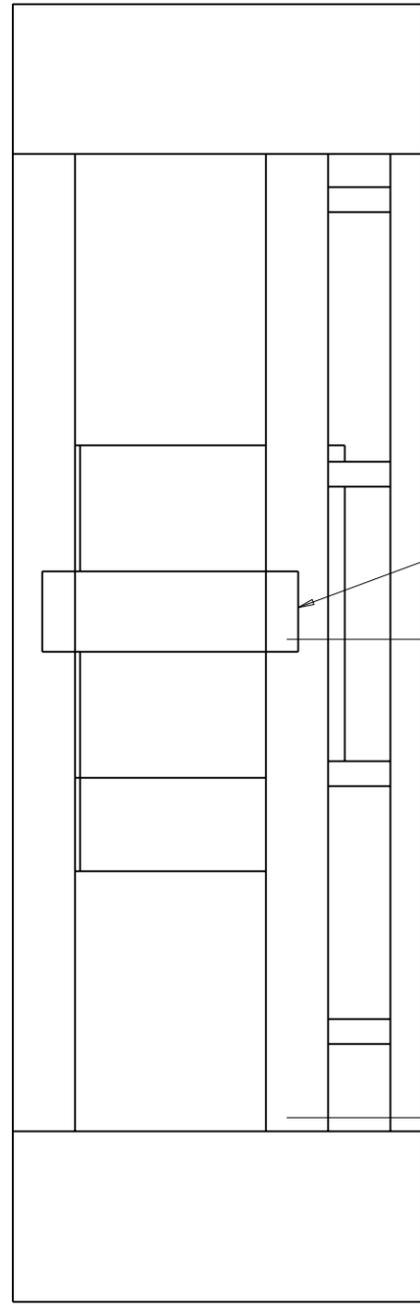


VIEW D-D
SHOP STAMPING
FOR FIG. 6

PROJ-EGEDFORM.FRM-FEB-96

J5D049A-1

FOR PROPRIETARY NOTICE SEE SHEET A1		THIRD ANGLE PROJN	
AUTOMATED POSITION CLUSTER			
(P)	DWG SIZE C2	ISSUE 20	
LUCENT TECHNOLOGIES	J5D049A-1	SHEET NO. B5	



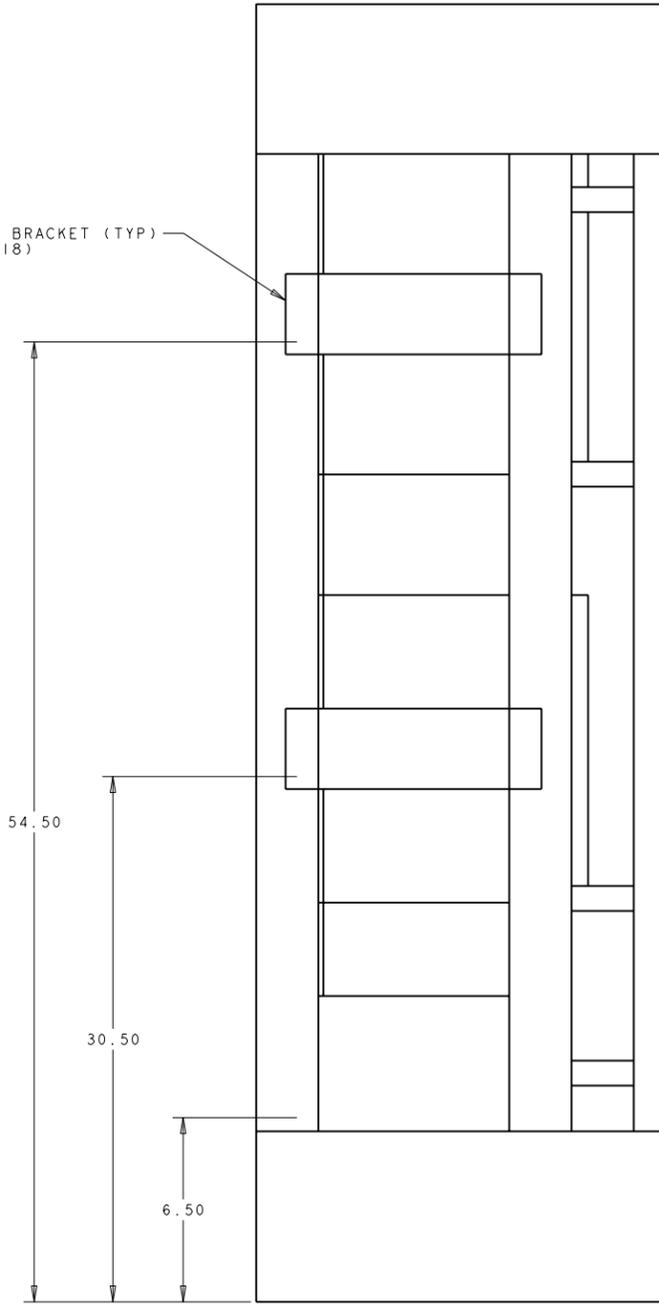
SIDE VIEW
FIG. A
SHOWING MOUNTING LOCATION OF RACK
MOUNT BRACKETS CSS CABINET

RACK MOUNT BRACKET (TYP)
(SEE NOTE 18)

RACK MOUNT BRACKET
(SEE NOTE 18)

38.50

6.50

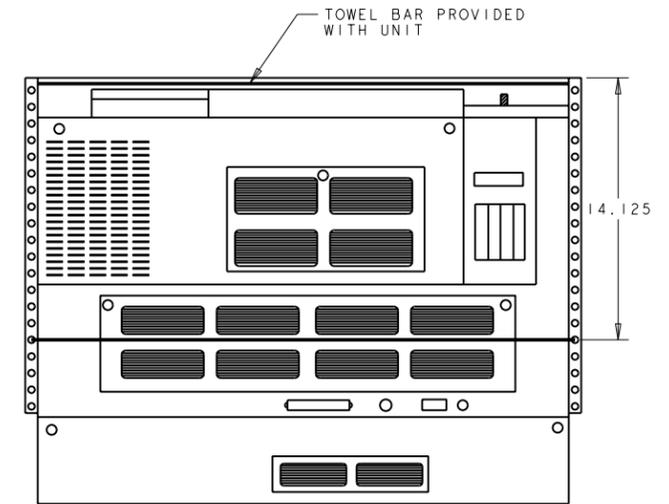


SIDE VIEW
FIG. B
SHOWING MOUNTING LOCATION OF RACK
MOUNT BRACKETS APS CABINET

54.50

30.50

6.50



REAR VIEW
FIG. C
MOUNTING OF TOWEL BAR
ON CSS, APS OR DCS UNITS
SEE NOTE 19

TOWEL BAR PROVIDED
WITH UNIT

14.125

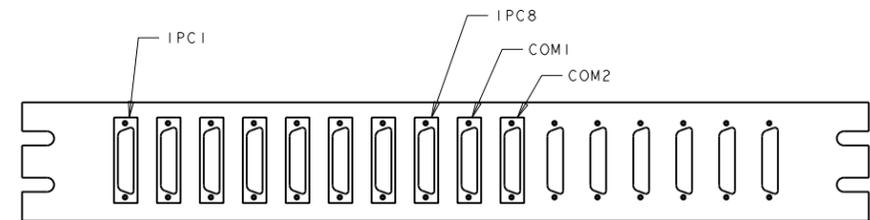


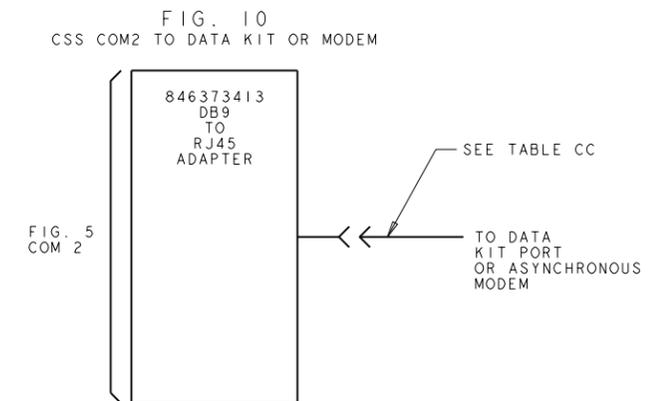
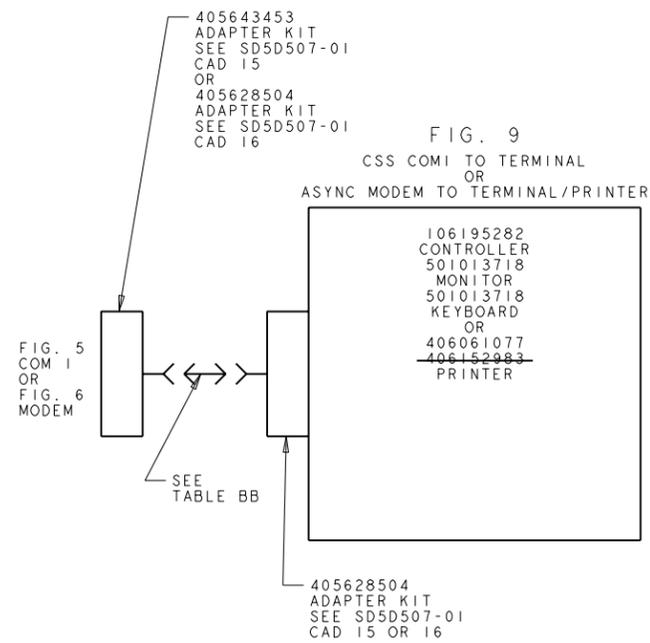
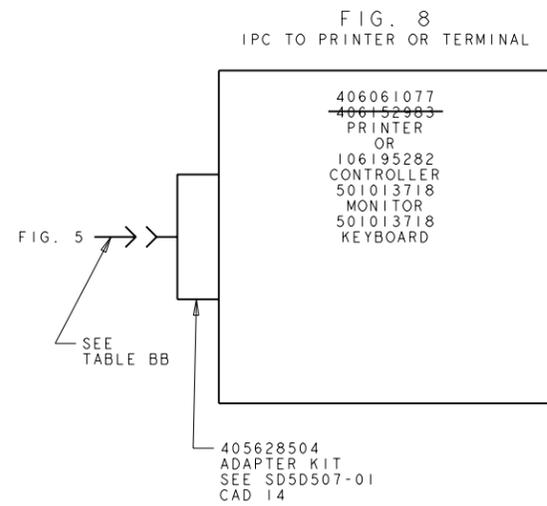
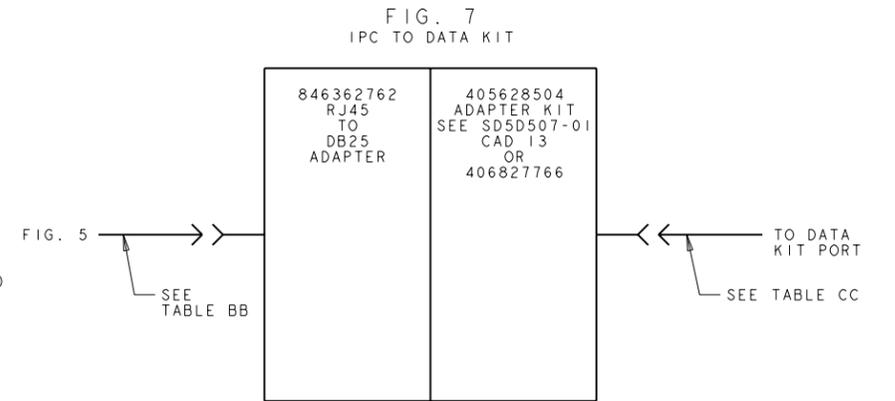
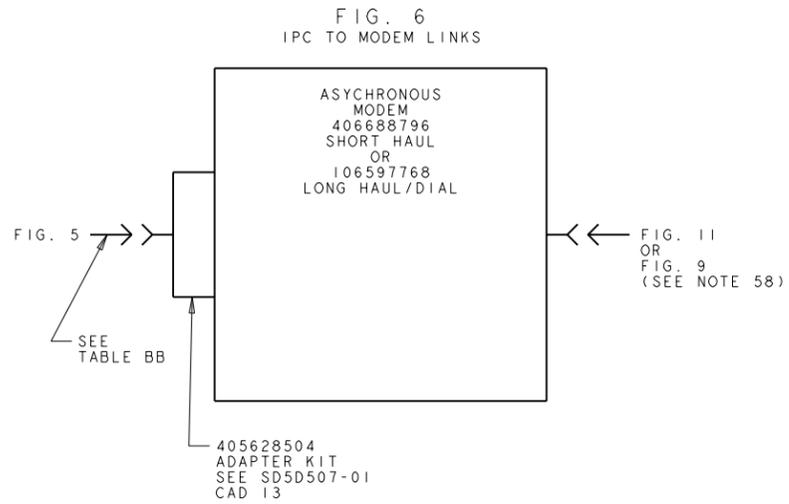
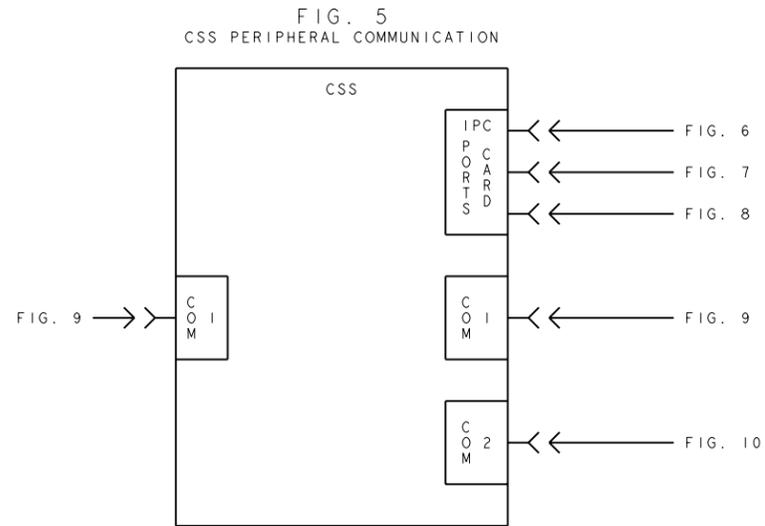
FIG. D
VRCP PORT DESIGNATIONS
SEE NOTE 69

PROJ-EGEDFORM.FRM-FEB-96

J5D049A-1

FOR PROPRIETARY NOTICE SEE SHEET A1		THIRD ANGLE PROJ	
AUTOMATED POSITION CLUSTER			
(P)	DWG SIZE C2	ISSUE 20	
LUCENT TECHNOLOGIES	J5D049A-1	SHEET NO. B6	

12PORT_HUB



PROJ-EGEDFORM.FRM-FEB-96

J5D049A-1

FOR PROPRIETARY NOTICE SEE SHEET A1		THIRD ANGLE PROJN	
AUTOMATED POSITION CLUSTER			
DWG SIZE	ISSUE		
C2	20		
LUCENT TECHNOLOGIES	J5D049A-1	SHEET NO. B7	

12PORT_HUB

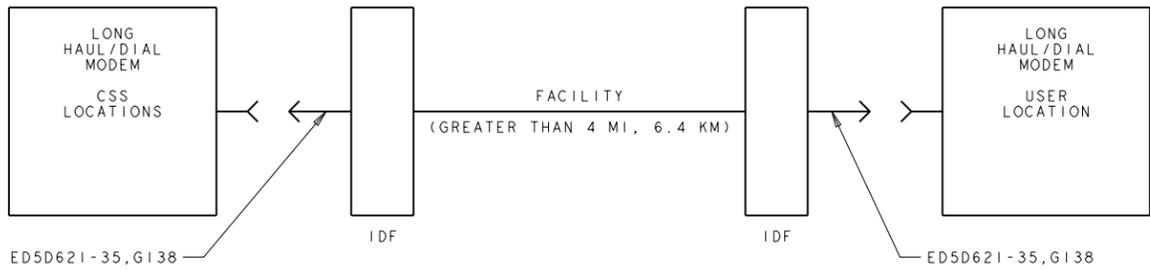
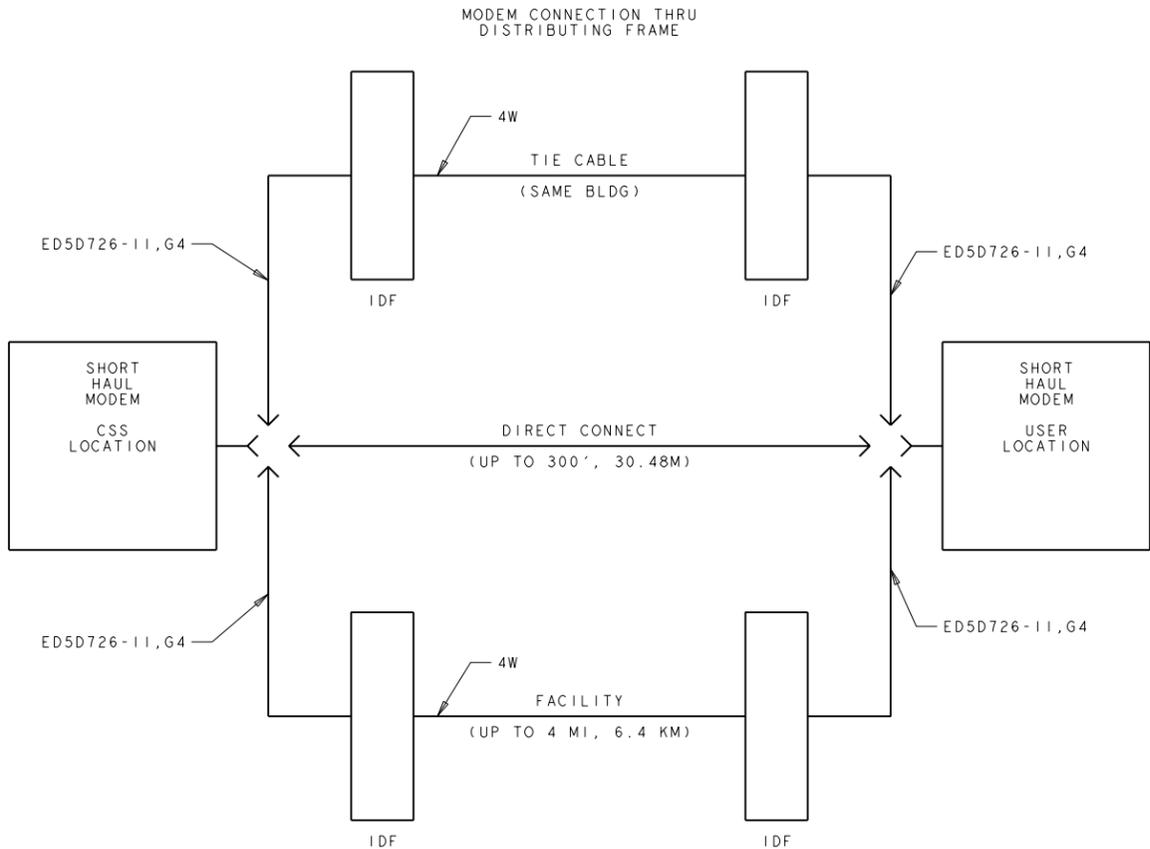


FIG. 12
MOBILE CART
AS REQUIRED FOR MAINTENANCE

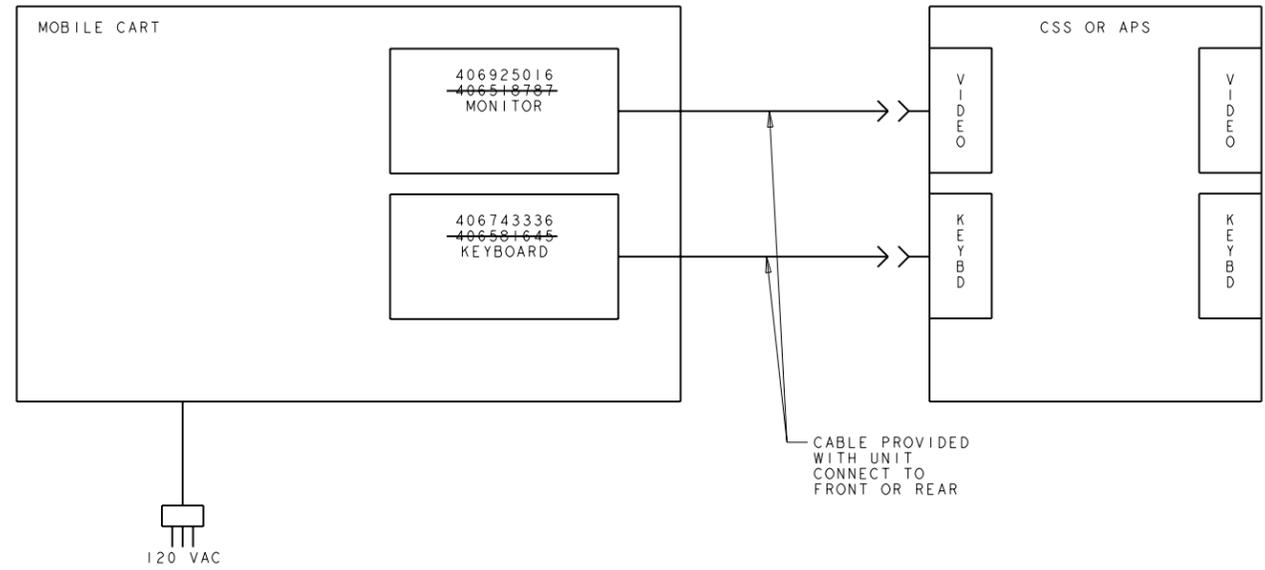


FIG. 13
IDF CONNECTIONS

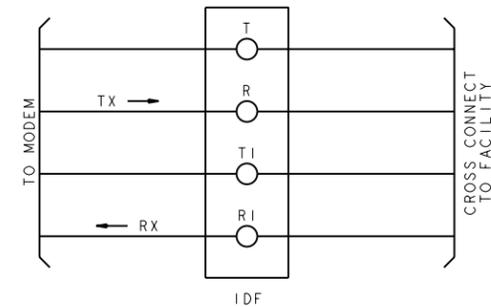


TABLE BB
SEE NOTE 54

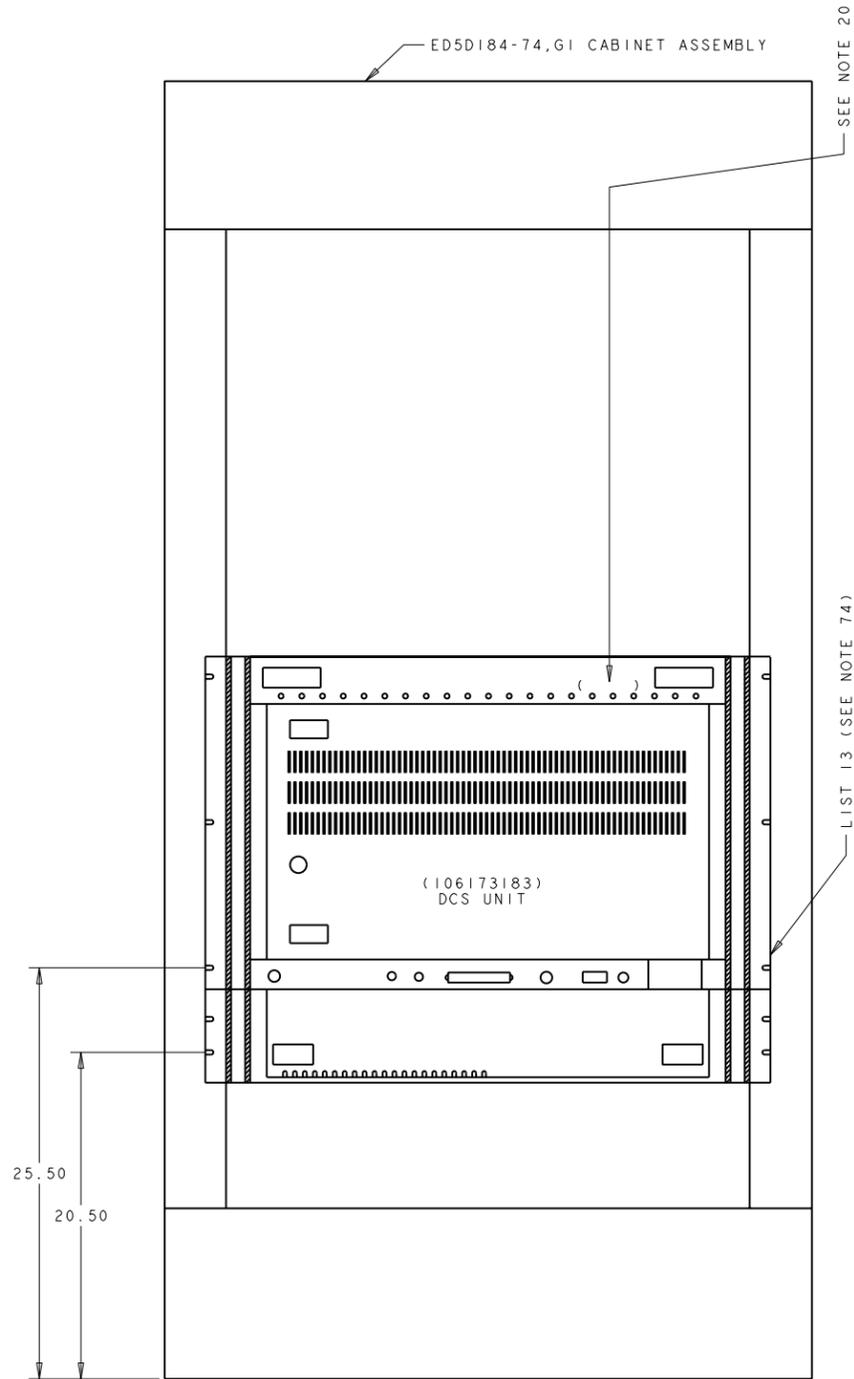
RJ45 10 COND CABLE	
COMCODE	LENGTH
846362705	10'
846362713	25'
846362721	50'

TABLE CC
SEE NOTE 54

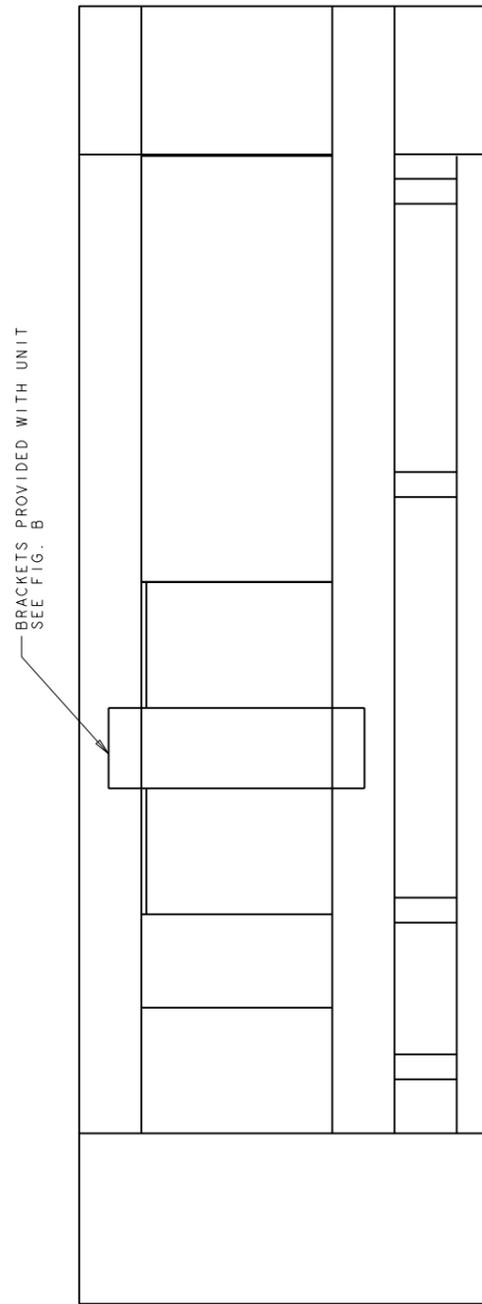
DW8A-DE 8 COND MOD CABLE	
COMCODE	LENGTH
103895645	10'
103730321	25'
103730339	50'

FOR PROPRIETARY NOTICE SEE SHEET A1		THIRD ANGLE PROJ	
AUTOMATED POSITION CLUSTER			
(P)		DWG SIZE C2	ISSUE 20
LUCENT TECHNOLOGIES	J5D049A-1	SHEET NO. B8	

D

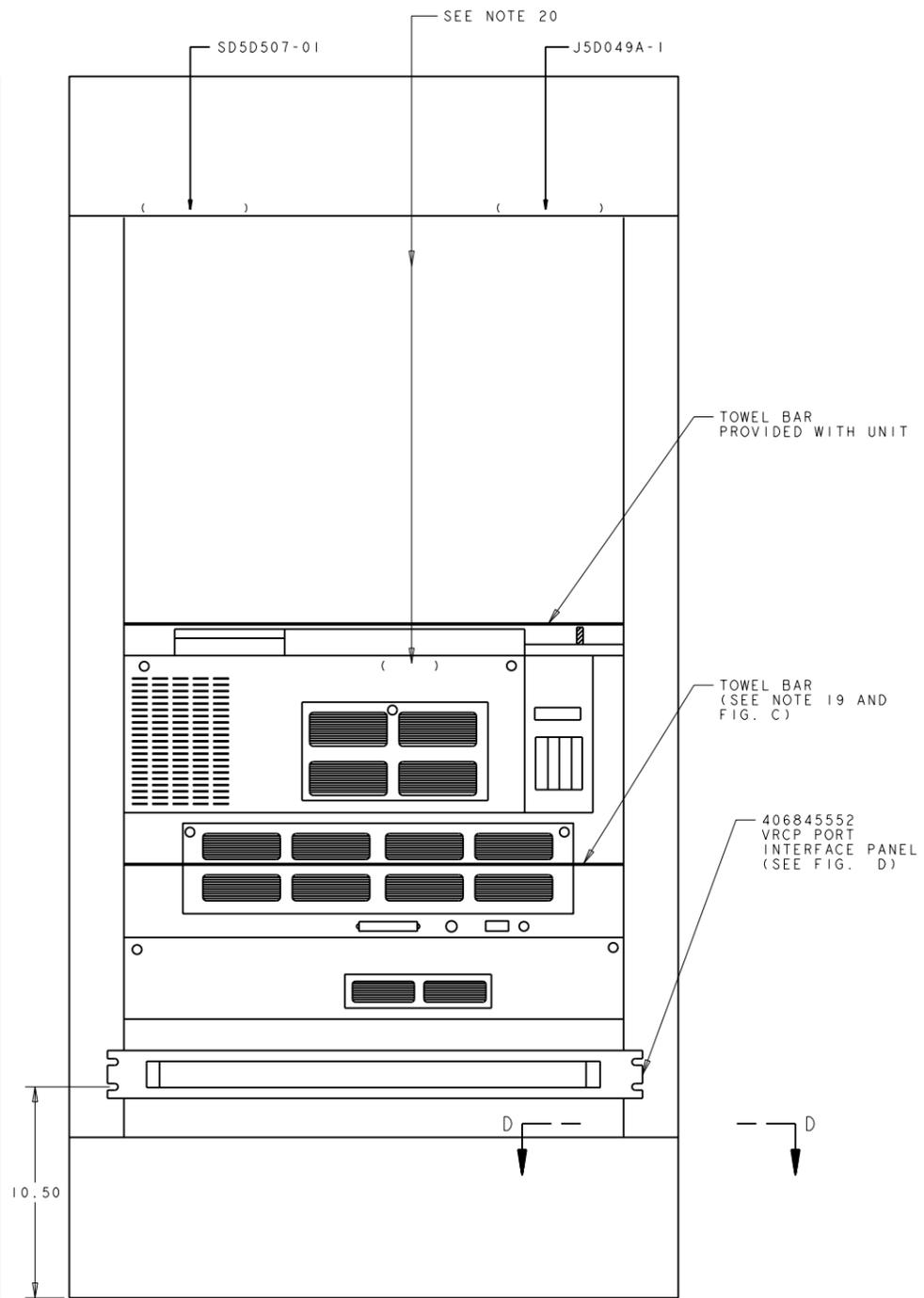


FRONT VIEW



SIDE VIEW
FIG. 14 DA

SHOWN WITHOUT DOORS
AND SIDE PANELS
METHOD OF
EQUIPPING DCS UNIT
IN SEPARATE CABINET



REAR VIEW

PROJ-EGEDFORM.FRM-FEB-96

J5D049A-1

FOR PROPRIETARY NOTICE SEE SHEET A1		THIRD ANGLE PROJ	
AUTOMATED POSITION CLUSTER			
(P)	DWG SIZE C2	ISSUE 20	
LUCENT TECHNOLOGIES	J5D049A-1	SHEET NO. B9	

12PORT_HUB

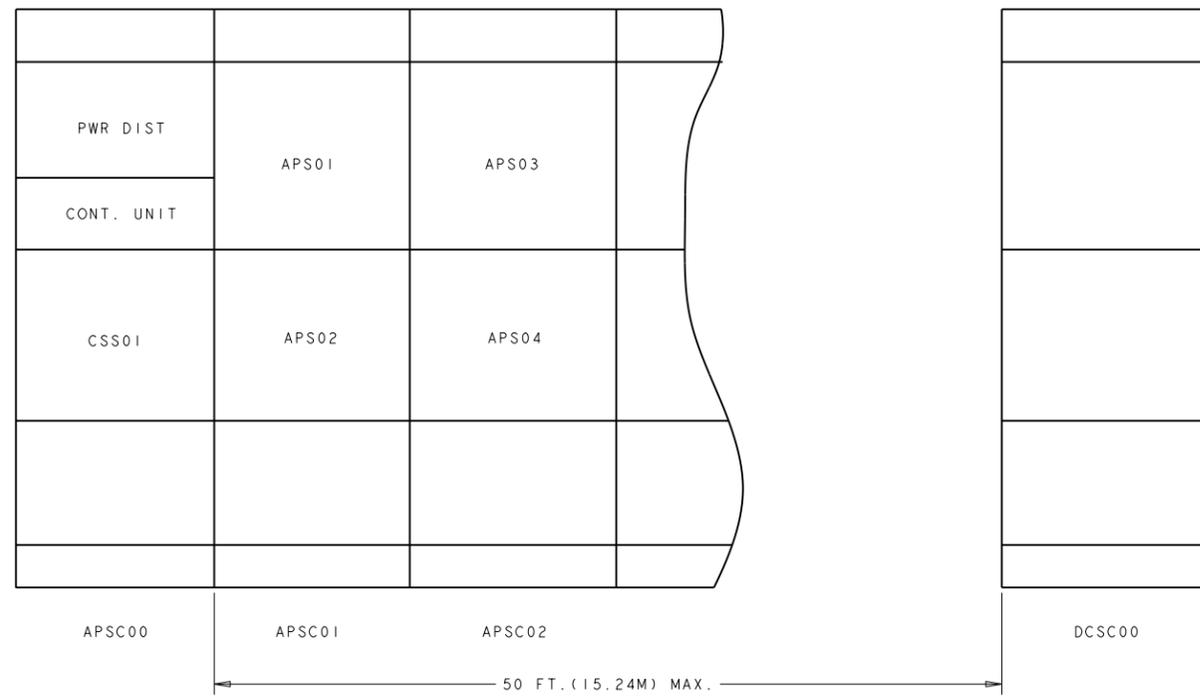


FIG. E
STANDARD APS CONFIGURATION

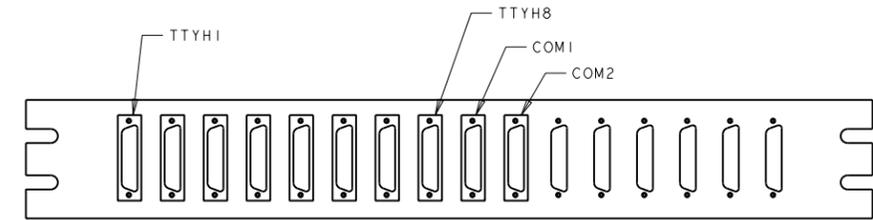


FIG. D
VRCP PORT DESIGNATIONS
SEE NOTE 69

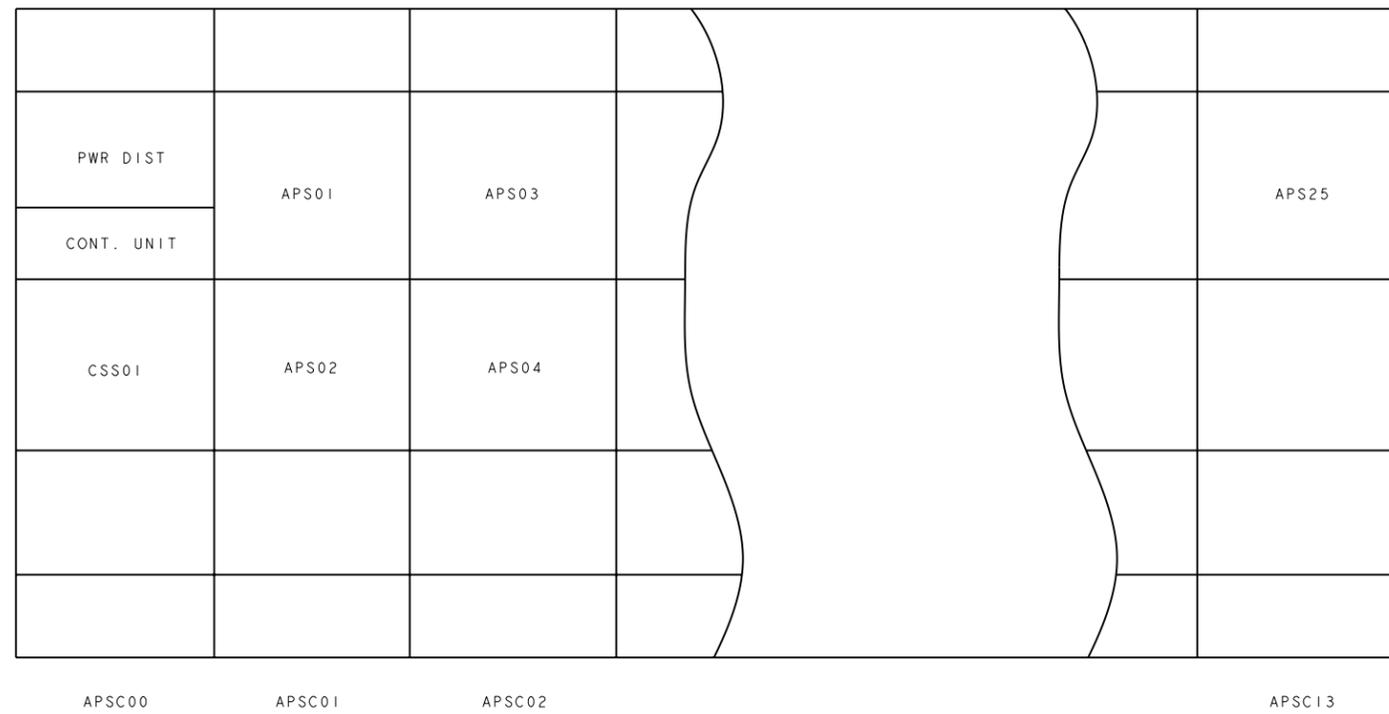
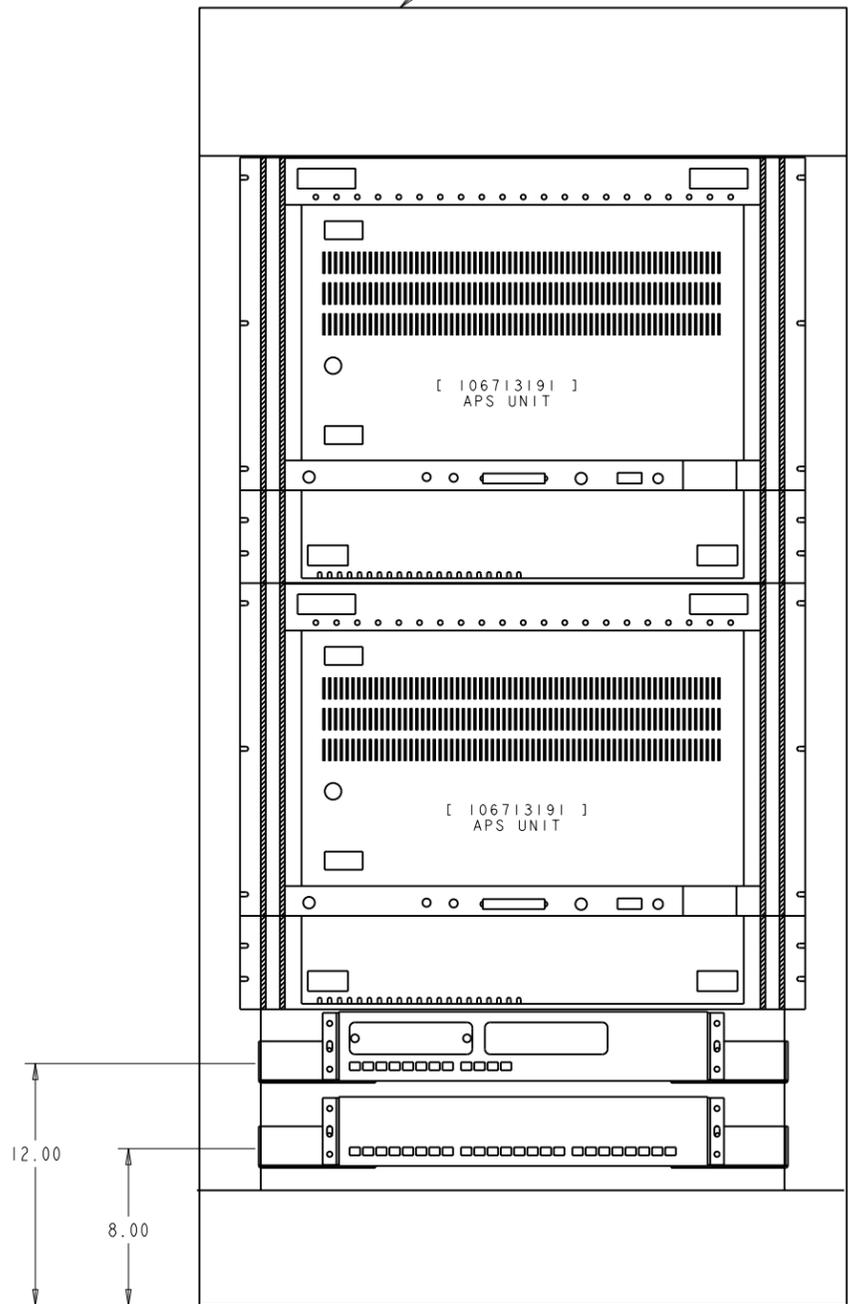


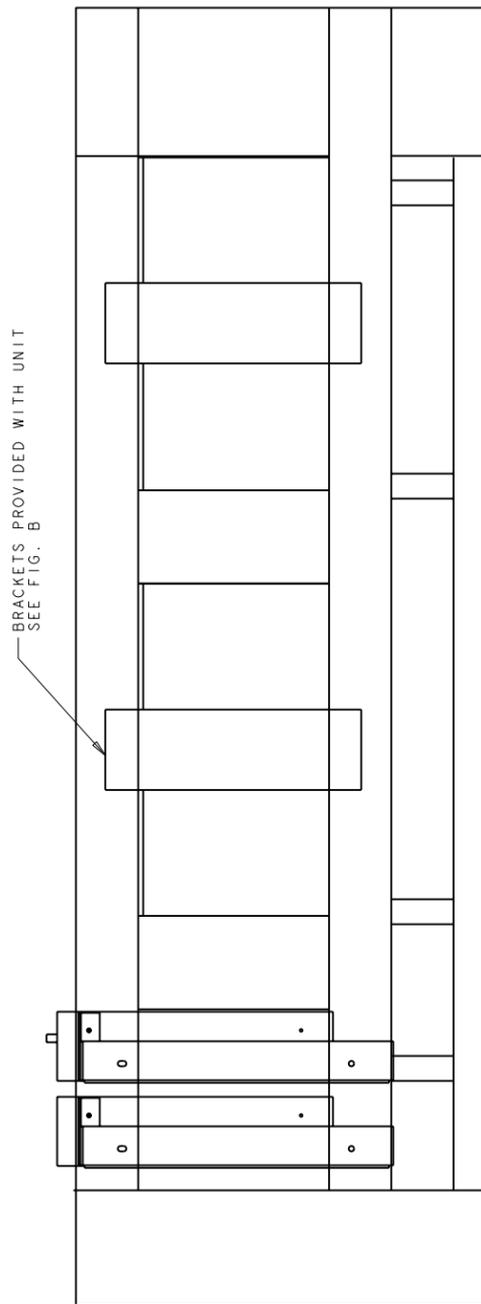
FIG. F
ALTERNATE APS CONFIGURATION

FOR PROPRIETARY NOTICE SEE SHEET A1		
AUTOMATED POSITION CLUSTER		THIRD ANGLE PROJ ⊕
DWG SIZE C2	ISSUE 20	
LUCENT TECHNOLOGIES	J5D049A-1	SHEET NO. B10

ED5D184-74,G1 CABINET ASSEMBLY

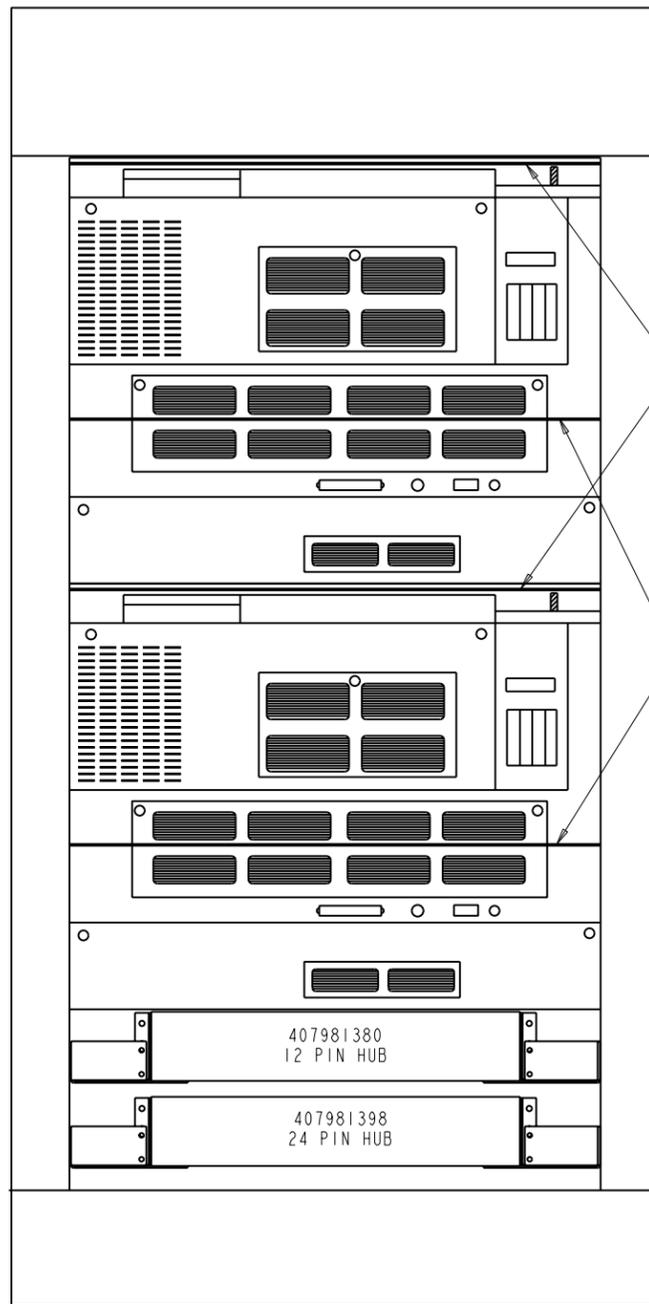


FRONT VIEW



SIDE VIEW
FIG. 15

APSCO1 CABINET
SHOWN WITHOUT DOORS
AND SIDE PANELS



REAR VIEW

PROJ - EGEDFORM, FRM - FEB 96

J5D049A-1

FOR PROPRIETARY NOTICE SEE SHEET A1		THIRD ANGLE PROJ	
AUTOMATED POSITION CLUSTER			
DWG SIZE C2	ISSUE 20		
LUCENT TECHNOLOGIES	J5D049A-1	SHEET NO. B11	

STOCKLIST								
ITEM NBR	LIST GROUP CODE	QTY PER CODE	PRODUCT IDENTIFIER	CODE	DESCRIPTION	REFERENCE POSITION	NOTE	
							SYM	NBR
1000	1	1	J89051A-1,L1		ASSEMBLY, CABINET		S	
1005	1A	1	J89051A-1,L2		ASSEMBLY, CABINET		S	
1010	1,1A	1	401509773	KS20018L9D	SHELF		S	
1015	1,1A	2	834160244	P-41W024	BRACKET		S	
1020	1,1A	4	840026835		SCREW,TTF SLOTTED HEX, WASHER HD .216-24 X 5/8 TAPPING TYPE (SWAGE FORM) STEEL ZINC PLATE 289A FINISH		S	
1030	1,1A	2	406645846		TERMINATOR,BNC PLUG 1 WATT, 50 OHM, W/O TETHER RP/DS #221629-4 AMP INC		S	16
1100	2,13	1	106713183	7024-CS1	UNIT,CONTROL		S	
1200	3	1	ED5D184-74,G1		ASSEMBLY, CABINET		S	
1210	3A	1	ED5D184-74,G3B		ASSEMBLY, CABINET		S	
1220	3 3A	2	ED5D694-30,G2, G2		ASSEMBLY, BEZEL COVER FRONT OR REAR		S	
1230	3,3A	2	845081991		LABEL,ESD		S	
1240	3,3A	2	405701756		TERMINAL,LUG #M8-14R/SX 3M CO.		S	
1250	3,3A	2	840026827		SCREW,HEXAGON WASHER HEAD .216-24 X 1/2 SELF TAPPING		S	
1260	3,3A	4	996096970		SCREW, SHOULDER #4327 PIC DESIGN CORP.		S	
1265	3,3A	4	406763276		SCREW,HEX HEAD SLOTTED .190-32 STAINLESS STEEL #ATT1034SP CAMCAR TETRION		S	
1270	3,3A	4	900559121		WASHER,SPRING #UN250-0110 ASSOCIATED SPRING CO.		S	
1280	3,3A	4	843084385		SCREW,HEXAGON HEAD CAP .500-13 X 5 3/4		S	13 14 15
1285	3,3A	4	814251914	P-42E191	WASHER,PLAIN .090 STEEL 289A FINISH		S	13 14 15
1290	3,3A	4	843082470		SPACER		S	13 14 15
1295	3,3A	4	900666256		NUT,TOPLock FLANGE CADMIUM FINISH #NF1213S GRIPCO FASTENER CO		S	13 14 15
1300	4	1	106713191	7024-AP1	UNIT,CONTROL		S	
1400	5,5A	1	406061077		PRINTER,DOT MATRIX #ML-320 OKIDATA		S	
1410	5A	1	406869370		BOARD,INTERFACE #6417-K100-0000 NCR		S	
1420	1,1A	1	405643453		CONNECTOR,ELECTRICAL #352-2 INMAC FEMALE		S	
1500	6	1	405208927		SET,DATA #LDS120A GANDALF DATA INC.		S	
1505	6A	1	406688796		SET,MODEM #LDS120E GANDALF DATA INC.		S	

STOCKLIST CONTINUED ON SHEET D2

S H O P	I N S T	MANUFACTURING NOTES	
		SYM	NBR
			1. X PARTS REQUIRED FOR INSTALLATION.
			X/ PARTS REQUIRED FOR MANUFACTURE WHEN EQUIPMENT IS SHOP MOUNTED OR BY THE INSTALLER WHEN THE EQUIPMENT IS TO BE FIELD MOUNTED.
			* PARTS THAT ARE TO BE SHIPPED ATTACHED TO OR ENCLOSED IN THE SAME CONTAINER WITH THE ASSOCIATED ASSEMBLED ITEM.
			*/ PARTS (A) REQUIRED FOR MANUFACTURE WHEN EQUIPMENT INVOLVED IS SHOP MOUNTED OR (B) TO BE SHIPPED ATTACHED TO, OR ENCLOSED IN THE SAME CONTAINER WITH THE ASSOCIATED ASSEMBLED ITEM WHEN FIELD MOUNTED.
			() INDICATES DESIGNATIONS TO BE STAMPED IN ACCORDANCE WITH JOB INFORMATION.
			{ } INDICATES DESIGNATIONS SHOWN FOR INFORMATION ONLY AND ARE NOT TO BE STAMPED.
			< > INDICATES DESIGNATIONS AND/OR INFORMATION PROVIDED IN ACCORDANCE WITH OTHER INFORMATION.
			"W" PARTS ASSEMBLED AT THE SAME TIME THE EQUIPMENT IS MOUNTED.
			"W*" PARTS TO BE (A) SHOP ASSEMBLED, BUT WHICH CANNOT BE ASSEMBLED UNTIL THE ASSOCIATED EQUIPMENT IS BEING MOUNTED, OR (B) SHIPPED ATTACHED TO, OR ENCLOSED IN THE SAME CONTAINER WITH THE ASSOCIATED EQUIPMENT WHEN FIELD MOUNTED.
			"S" PARTS NOT ASSEMBLED, SHIPPED SEPARATELY.
			A/R AS REQUIRED.
			"B" PARTIAL ASSEMBLIES ON OTHER DRAWINGS WITH STOCKLISTS.
X	X		12. THIS DOCUMENT CONTAINS BOTH U.S. CUSTOMARY (INCH, ETC) AND SI (METRIC) DIMENSIONS.
X	X		13. WHEN JUNCTIONING SIX FOOT CABINETS TOGETHER THE LEVEL OF EACH CABINET SHALL BE DETERMINED AT THE TOP SURFACE OF THE CABINET AND NOT THE BOTTOM. WHEN JUNCTIONING THE CABINETS TOGETHER IN BLOCKS OF TWO, THREE OR FOUR CABINETS, THE QUANTITY OF SPACERS REQUIRED BETWEEN CABINETS WILL VARY ACCORDING TO THE DIMENSIONS OF THE CABINETS THEMSELVES. EACH BLOCK OF CABINETS SHALL BE MEASURED AND THE APPROPRIATE QUANTITIES OF 843082460 SPACERS SHALL BE ADDED BETWEEN THE CABINETS TO ACHIEVE THE FOLLOWING DIMENSIONS: TWO CABINETS 59 7/8, +1/16, -0" 1520.83, +1.59, -0 MM THREE CABINETS 89 7/8, +1/16, -0" 2282.83, +1.59, -0 MM FOUR CABINETS 119 7/8, +1/16, -0" 3044.83, +1.59, -0 MM
X			14. THESE BOLTS ARE NOT REQUIRED WHEN THE CABINETS ARE JUNCTIONED IN THE FIELD.
X	X		15. THE HEXAGON HEAD CAP SCREWS USED FOR JUNCTIONING CABINETS TOGETHER MAY BE INSERTED FROM EITHER SIDE OF THE JUNCTION AS DETERMINED BY THE MANUFACTURING LOCATION.
X			16. LAN CABLE TERMINATIONS MUST BE INSTALLED AT THE BEGINNING AND END OF THE LAN BUS. ONE ON THE CSS UNIT AND ONE ON THE LAST APS UNIT IN THE LINEUP. WHEN ADDING APS UNITS TO AN EXISTING LINEUP REMOVE THE TERMINATION FROM THE LAST EXISTING UNIT AND REINSTALL ON THE LAST NEW APS UNIT.
X			17. REMOVE PAIRS OF 72B DUMMY FUSES AND REPLACE WITH 74F LOAD FUSES AND 70G INDICATOR FUSES AS REQUIRED ON A JOB BASIS.
X			18. THE RACK MOUNT BRACKETS AND MOUNTING HARDWARE ARE SHIPPED LOOSE IN THE ACCESSORY BOX WITHIN THE SHIPPING CONTAINER WITH THE CSS OR APS UNIT AND ARE TO BE INSTALLED AT THE CUSTOMER SITE.
X			19. THE TOWEL BAR AND MOUNTING HARDWARE ARE SHIPPED LOOSE IN THE ACCESSORY BOX WITHIN THE SHIPPING CONTAINER WITH THE CSS OR APS UNIT . IT IS TO BE INSTALLED AS SHOWN AFTER CABLE ROUTING AND WITH THE UNIT EXTENDED FULLY FORWARD. THE INTENT OF THE BAR IS TO ENSURE THE CABLES ARE MAINTAINED WITHIN THE CABINET WHEN THE UNIT IS RETURNED TO THE CLOSED POSITION.
X			20. THE INSTALLER SHALL MARK THE UNITS APPROXIMATELY AS SHOWN WITH THE UNIT DESIGNATION PER TABLE BB USING AN APPROPRIATE LABEL MAKER, (DYMO ETC.) IF AVAILABLE, 3/8 INCH BLACK CHARACTERS ON CLEAR TAPE OR HAND STAMP 3/8 INCH CHARACTERS, BLACK INK.

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BT13
5ESS SWITCHING SYSTEM
SPECIFICATION FOR
OPERATOR SERVICES POSITION SYSTEM
AUTOMATED POSITION CLUSTER
CABINETS
(OSPS-AP)

DWG SIZE C2
ISSUE 22

J5D049A-1

LUCENT TECHNOLOGIES INC J5D049A-1

SHEET D1 OF 19

STOCKLIST								
ITEM NBR	LIST GROUP CODE	QTY PER CODE	PRODUCT IDENTIFIER	CODE	DESCRIPTION	REFERENCE POSITION	NOTE	
							SYM	NBR
1506	6A	1	ED5D6Z1-35,G138, G138		CABLE, CONNECTORIZED ASSEMBLY		S	
1507	6A	1	404083057		MODEM,ELIMINATOR #ME200 BLACK BOX INC.		S	
1510	5,6,6A,7, 9,9A,M	1	405628504		KIT #351-2 INMAC CORPORATION MALE		S	
1600	7	1	106195282	55C735AAA	CONTROLLER,DISPLAY CONTROLLER FOR THE 735 MTG. TERMINAL		S	
1610	7	1	501013718	53D610AAA	MONITOR WHITE (GRAY BEZEL) 16 IN		S	
1620	7	1	106476369	306D-KSI	KEYBOARD		S	
1690	8	1	406925016		MONITOR,COLOR VIDEO #9373-K098-V001 NCR		S	
1700	8	1	406743336		KEYBOARD,101 KEYS #E03417248 KEY TRONICS		S	
1710	8	1	406666263		CORD,POWER #798 INMAC		S	
1720	8	1	ED1P296-30,G1		ASSEMBLY, MOBILE CART KIT		S	
1800	9	1	105660278	2296A-L1A/2	SET,DATA		S	
1810	9A	1	106597768	3810-A1-001	MODEM,DATA TRANSFER		S	
1850	10	1	106713209	7024-AP2	UNIT,CONTROL		S	
1851	14	1	107475089	7024-AP3	CONTROL,AUTOMATIC CLEI = E5PQAPEA			
1860	15	1	107499261	7024-108U	KIT,UPGRADE			
1870	16	1	107819492	7024-CS2	UNIT,AUTOMATIC			
1880	17	1	107819385	7024-110U	KIT,UPGRADE			
1890	18	1	107955205	7024-111U	KIT,UPGRADE			
1900	11	1	846541258		ASSEMBLY,BOARD COMBINED SERVICE TERM OSPS INTELLIGENT PC INTERFACE BOARD (IPIB)			
1905	11A	1	847401601		ASSEMBLY,BOARD OSPS ENHANCED INTELL PC			
1910	12	1	406845552		PANEL,INTERFACE #CUS C001 CODARAM CORP		S	
1930	12	2	846362705		CABLE ASSEMBLY STRAIGHT 1 TO 1,RJ-45 10 PIN PLUGS,10 FT.		S	
1940	19	1	108023672	7024-LEC	CONTROL,AUTOMATIC			
1950	20	1	108023664	7024-112U	KIT,UPGRADE			
1960	21	1	108023680	7024-VRC	UNIT,AUTOMATIC			
1970	22	1	107819500	7024-AP4	UNIT,AUTOMATIC			
1980	23	1	108178898	7025-AP5	UNIT,AUTOMATIC			
2000	A	1	ED5D726-20,G3		ASSEMBLIES, CONNECTORIZED CABLE		S	
2010	B	1	846362705		CABLE ASSEMBLY STRAIGHT 1 TO 1,RJ-45 10 PIN PLUGS,10 FT.		S	
2020	C	1	846362713		CABLE ASSEMBLY STRAIGHT 1 TO 1,RJ-45 10 PIN PLUGS,25 FT.		S	
2030	D	1	846362721		CABLE ASSEMBLY STRAIGHT 1 TO 1,RJ-45 10 PIN PLUGS,50 FT.		S	
2040	E	2	846364842		ASSEMBLY,DOOR FRAME UPPER		S	
2050	E	2	845623099		ASSEMBLY,DOOR FRAME LOWER		S	

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

J5D049A-1

STOCKLIST								
ITEM NBR	LIST GROUP CODE	QTY PER CODE	PRODUCT IDENTIFIER	CODE	DESCRIPTION	REFERENCE POSITION	NOTE	
							SYM	NBR
2060	E	16	846471639		SCREW,HEXAGON WASHER HEAD .216-24 X 5/8 IN. STEEL 584 FINISH TYPE SW SWAGEFORM		S	
2070	E,S	2	845622976		ASSEMBLY,DOOR PERFORATED (CENTER-OPENING)		S	
2080	F	2	845310283		ASSEMBLY,DOOR FRAME UPPER		S	
2090	F	2	845310291		ASSEMBLY,DOOR FRAME LOWER		S	
2100	F	16	840026835		SCREW,TTF SLOTTED HEX, WASHER HD .216-24 X 5/8 TAPPING TYPE (SWAGE FORM) STEEL ZINC PLATE 289A FINISH		S	
2110	F	2	845312826		ASSEMBLY,DOOR		S	
2120	G	1	ED5D726-20,G1		ASSEMBLIES, CONNECTORIZED CABLE		S	
2130	H	1	ED5D726-20,G2		ASSEMBLIES, CONNECTORIZED CABLE		S	
2140	J	1	102630340	74F	FUSE 20 AMP		S	17
2150	J	1	100203389	70G	FUSE .5 AMP		S	17
2160	K	1	846373413		ADAPTER DTE,RJ-45,10 PIN,TO DB-9 FEMALE		S	
2170	L	1	846362762		ADAPTER DCE,RJ-45 10 PIN TO DB-25 FEMALE		S	
2180	M	1	403602717		PLUG,TERMINAL PRINTER F/3BZ #Z3Z-21-25-U1U TRW INC.		S	
2190	N	1	103895645	DW8A-DE	CORD 10 FT		S	
2200	P	1	103730321	DW8A-DE	CORD LIGHT OLIVE GRAY 25FT		S	
2210	R	1	103730339	DW8A-DE	CORD,50 FT.,INDIVIDUAL PACK		S	
2220	T	2	ED5D184-76,G2		HARDWARE		S	
2250	V	1	406827766		ADAPTER,MODULAR TELEPHONE 8 PINS, 8 CONTACTS #11699 CBS INTERNATIONAL		S	
2300	25	1	108333931	7024-2KCU	KIT,UPGRADE		S	
2310	26	1	108333949	7024-2KAU	KIT,UPGRADE		S	
2320	27	1	407981380		HUB,STACKABLE #EE220TX12US		S	
2330	27	1	407981398		HUB,STACKABLE #EE220TX24US		S	
2340	27	4	848219952		BRACKET		S	
2350	27	4	407606979		BRACKET,MOUNTING #690UZ037-01-50 MUPAC		S	
2360	27	8	901271031		SCREW,HEXAGONAL WASHER #M6X16 PHILLIPS ACR 2		S	
2370	27	8	901352419		SCREW,HEXAGONAL FLANGE .190-32 X 1/2 IN.		S	

STOCKLIST CONTINUED ON SHEET D3

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BT13

5ESS SWITCHING SYSTEM
SPECIFICATION FOR
OPERATOR SERVICES POSITION SYSTEM
AUTOMATED POSITION CLUSTER
CABINETS
(OSPS-AP)

DWG SIZE
C2

ISSUE
22

LUCENT TECHNOLOGIES INC J5D049A-1

SHEET D2
OF 19

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STOCKLIST

ITEM NBR	LIST GROUP CODE	QTY PER CODE	PRODUCT IDENTIFIER	CODE	DESCRIPTION	REFERENCE POSITION	NOTE	
							SYM	NBR
2380	27	1	407982073		CABLE ASSEMBLY #EE200CC		S	
2400	28	1	407981356		MODULE, FIBER #EE110FX		S	
2410	28	1	407995109		ADAPTER FIBER OPTIC #FO209		S	
2420	29	1	407981372		MODULE, MANAGEMENT #EE200MM		S	
2430	30	1	407981364		MODULE, ETHERNET #EE110EM		S	
2440	31	1	407995299		CABLE ASSEMBLY #CBUT28516-30FT		S	
2450	32	1	407995281		CABLE ASSEMBLY #CBUT28516-42FT		S	
2460	33	1	407995273		CABLE ASSEMBLY #CBUT28516-54FT		S	
2470	34	1	407995265		CABLE ASSEMBLY #CBUT28516-66FT		S	
2480	27	1	847881349		ASSEMBLY, POWER		S	

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

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BT13

5ESS SWITCHING SYSTEM
SPECIFICATION FOR
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AUTOMATED POSITION CLUSTER
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(OSPS-AP)

DWG SIZE
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ISSUE
22

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