TABLE A - FEATURES

LINE	DESCRIPTION	AB RATING	AC LIST	AD QTY	AE CIRCUIT	AF FIGURE	AG WIRING	AH APPARATUS
				CIRCUITS AND FIGURES EQUIPPED				
1	FRAMEWORK, ASSEMBLY, WIRING AND EQUIPMENT FOR ONE BATTERY PLANT, 208/220/240 VOLT 50/60 HZ INPUT, -48 VOLT, 600 AMPERE MAXIMUM OUTPUT (PLANT EQUIPPED WITH ECS CONTROLLER, TWO RECTIFIER SHELF ASSEMBLIES, CHARGE/DISCHARGE BUS BARS AND FUSE BOARD PANEL). (SEE NOTES 69, 77)	DA - (SEE NOTE 108)	1	1	T-82673-31	1,2,3,4,5	Y,L	L
2	SAME AS LIST 1, WITH LOW VOLTAGE BATTERY DISCONNECT/RECONNECT FEATURE. (SEE NOTES 11, 58, 69, 77)	DA - (SEE NOTE 108)	2	1	T-82673-31	1,2,3,4,6	Z,L	L
3	FRAMEWORK TO PROVIDE A SUPPLEMENTARY BAY FOR MOUNTING ADDITIONAL DISTRIBUTION PANELS AND/OR A MAXIMUM OF TWO RECTIFIER SHELVES. (SEE NOTE 24,53,54,69,72,74,75)	LA - (SEE NOTE 108)	3					
4	EQUIPMENT REQUIRED IN ADDITION TO LIST 1, 2, OR 3 FOR ONE SWITCH MODE RECTIFIER (MAX. 3 PER RECTIFIER SHELF, MAX. 12 PER ECS CONTROLLER). (SEE NOTE 18, 21, 83 & 106)	DA	4	1	T-82673-31	H20		R, OMIT N
5	OPTIONAL EQUIPMENT FOR PLANT CONTROLLER TO PROVIDE MICROPROCESSOR CIRCUIT PACK (CP2). CP2 PROVIDES REMOTE/LOCAL MONITORING AND CONTROL FUNCTIONS. (SEE NOTES 21,68,82,86 & 106)	DA	5	1	T-82673-31	H15		M
6	UNASSIGNED							
7	SAME AS LIST 5 (CP2), WITH VOICE RESPONSE FEATURE. (SEE NOTES 21,68,82,86 & 106)	DA	7	1	T-82673-31	H15		M, J
8	OPTIONAL EQUIPMENT FOR PLANT CONTROLLER TO PROVIDE DATALOGGER CIRCUIT PACK (CP3). CP3 IS A DATA ACQUISITION CIRCUIT PACK THAT ALWAYS REQUIRES A LIST 5 OR 7 CP2 CIRCUIT PACK. (SEE NOTES 21,71 & 106)	DA	8	1	T-82673-31	H16		H
9	SAME AS LIST 8 (CP3), WITH REMOTE TERMINATION PANEL. THE REMOTE TERMINATION PANEL ALLOWS EXTERNAL CONNECTION TO THE CP3 CIRCUIT PACK FROM OUTSIDE THE CONTROLLER. (SEE NOTES 21,71 & 106)	DA	9	1	T-82673-31	H17		G
10	OPTIONAL EQUIPMENT IN ADDITION TO LIST 1 OR 2 TO PROVIDE A THIRD OR FOURTH RECTIFIER SHELF ASSEMBLY (MAX. 2 LIST 10 PER LIST 1 OR 2). (SEE NOTES 20, 31, 105)	LA - (SEE NOTE 108)	10	1	T-82673-31	4		X
11	OPTIONAL EQUIPMENT IN ADDITION TO LIST 3 (WHEN INITIAL BAY HAS AN ECS CONTROLLER LIST 1 OR 2) TO PROVIDE A THIRD OR FOURTH RECTIFIER SHELF ASSEMBLY (MAX. 2 LIST 11 PER LIST 3). (SEE NOTES 25, 31, 75, 103, & 106)	LA - (SEE NOTE 108)	11	1	T-82673-31	4		W
12	OPTIONAL EQUIPMENT IN ADDITION TO LIST 1 TO PROVIDE THERMAL (SLOPE/STEP) FEATURE (SEE NOTES 98-101, 104)	LA - (SEE NOTE 108)	12	1	T-82673-31	1A,H23,H24		
13	OPTIONAL EQUIPMENT IN ADDITION TO LIST 2 TO PROVIDE THERMAL (SLOPE/STEP) AND LOW VOLTAGE BATTERY DISCONNECT/RECONNECT FEATURE (SEE NOTES 98-101, 104)	LA - (SEE NOTE 108)	13	1	T-82673-31	1A,H23,H24		
14	SAME AS LIST 1 EXCEPT WITH GALAXY CONTROLLER (SEE NOTES 53,55,56,96,97)	DA - (SEE NOTE 108)	15	1	T-82673-31, T-83217-30	1,2,3A,4 1,2,H1,H2, H4	C,Y,L AA,AB,AC, AW,X	L
15	SAME AS LIST 2 EXCEPT WITH GALAXY CONTROLLER (SEE NOTES 53,55,56,58,96,97)	DA - (SEE NOTE 108)	16	1	T-82673-31 T-83217-30	1,2,3A,4 1,2,H1,H2, H4	C,Z,L AA,AB,AC, AW,X	L
16	OPTIONAL EQUIPMENT IN ADDITION TO LISTS 15 OR 16 TO PROVIDE A THIRD RECTIFIER SHELF	LA - (SEE NOTE 108)	17	1	T-82673-31	4		C,X
17	OPTIONAL EQUIPMENT IN ADDITION TO LIST 3 (WHEN INITIAL BAY HAS GALAXY CONTROLLER, LIST 15 OR 16) TO PROVIDE A RECTFIER SHELF MOUNTED IN SUPPLEMNETAL BAY (SEE NOTE 25)	LA - (SEE NOTE 108)	18	1	T-82673-31	4		C,W
18	CIRCUIT BREAKER PANEL FOR 0-600A BREAKERS. (SEE NOTES 8, 9, 28, 59, 67, 74, 80, 95)	LA - (SEE NOTE 108)	20	1	T-82673-31	21		

TABLE A - FEATURES (CONT.)

LINE	DESCRIPTION	AB RATING	AC LIST	AD QTY	AE CIRCUIT	AF FIGURE	AG WIRING	AH APPARATUS
	LIST AA-AH IS OPTIONAL EQUIPMENT FOR LIST 20 TO PROVIDE KS-22010 CIRCUIT BREAKER WITH THE FOLLOWING RATING: (SEE NOTE 67A)				T-82673-31	15,H11		
19	UNASSIGNED							
20	FUSE PANEL FOR (24) 0-30A LOAD FUSES. (SEE NOTES 24, 59, 62, 95)	LA - (SEE NOTE 108)	30	1	T-82673-31	7,H6		
21	FUSE PANEL FOR (8) 0-60A LOAD FUSES. (SEE NOTES 24, 59, 63, 76, 95)	LA - (SEE NOTE 108)	31	1	T-82673-31	8,H7		
	LIST H-J REQUIRED IN ADDITION TO LIST 31 TO PROVIDE ONE FUSE MOUNTING WITH THE FOLLOWING AMPERE RANGE. (A COMBINATION OF EIGHT LIST H OR J MUST BE FURNISHED PER LIST 31).				T-82673-31	9,10		
22	FUSE PANEL FOR (4) 70-100A LOAD FUSES. (SEE NOTES 24, 59, 64, 95)	LA - (SEE NOTE 108)	32	1	T-82673-31	11,H8		
23	FUSE PANEL FOR (2) 110-200A LOAD FUSES. (SEE NOTES 24, 59, 65, 76, 95)	LA - (SEE NOTE 108)	33	1	T-82673-31	12,H9		
24	FUSE PANEL FOR (2) 70-100A LOAD FUSES AND (1) 110-200A LOAD FUSE. (SEE NOTES 24, 59, 66, 76, 95)	LA - (SEE NOTE 108)	34	1	T-82673-31	13,H10		
	LIST AY-BC REQUIRED IN ADDITION TO LIST 33 OR 34 FOR ONE LOAD MONITORING SHUNT AND ONE LOAD FUSE WITH THE FOLLOWING RATING:				T-82673-31	12,13,H9, H10		
25	FUSE PANEL FOR (2) 70-600A LOAD FUSES AND (2) LOAD MONITORING SHUNTS 150A-600A.(SEE NOTES 24,79, 95)	LA - (SEE NOTE 108)	35	1	T-82673-31	22		
	SEE GROUPS BP AND BQ FOR HEAD ASSEMBLIES, AND GROUPS BS, BU, AND BX FOR SHUNT ASSEMBLIES WITH THE FOLLOWING RATINGS:				T-82673-31	22		
26	FUSE PANEL EQUIPPED WITH (19) 3-60A FUSE HOLDERS (SEE TABLES W AND Z) (SEE NOTES 8, 9, 24, 53, 74, 90, 95)	LA - (SEE NOTE 108)	36	1	T-82673-31	23		
27	UNASSIGNED							

1	POWER PLANT	SD-82673-02	T-82673-31				
LINE	CIRCUIT NAME	SCHEMATIC	WRG DIAGRAM	FIGURE	OPT WIRING	WIRED	REMARKS
	WIRING PROVIDED BY THE SHOP						

TABLE C - WIRING PROVIDED INFORMATION

CA	CB	CC	CD	CE	CF	CG

6	LVD/FUSE POWER SUPPLY PANEL	=ED-83246-30			
5	BREAKER DISTRIBUTION ASSY	=ED-83119-30			
4	FUSE DISTRIBUTION ASSEMBLY	=ED-83018-31	10	ECS BATTERY PLANT WIRING	T-82673-31
3	FUSE DISTRIBUTION ASSEMBLY	=ED-83182-30	9	ECS BATTERY PLANT SCHEMATIC	SD-82673-02
2	CENTRAL OFFICE TYPE FRAMEWORK	=ED-97735-70	8	CONTROLLER ASSEMBLY	J85501D-2
1	CABLE ASSEMBLIES	=H-285-226	7	RECTIFIER SHELF ASSEMBLY	=J85702B-2
LINE	NAME	NUMBER	LINE	NAME	NUMBER

= DENOTES NOT REQUIRED BY INSTALLER

TABLE D - LIST OF ASSOCIATED DRAWINGS

DA	DB	DA	DB

SHEET INDEX

ISSUE	30	30	30	30	30	30
SH NO	A1	A2	A3	A4	A5	A6
ISSUE	30	30	30	30	29	19
SH NO	A7	A8	A9	A10	B1	B2
ISSUE	23	24	23	18	21	29
SH NO	B3	B4	B5	B6	B7	B8
ISSUE	29	19	18	19	24	26
SH NO	B9	B10	B11	B12	B13	C1
ISSUE	22	19	19	19	21	19
SH NO	C2	C3	C4	C5	C6	C7
ISSUE	19	19	19	26	23	19
SH NO	C8	C9	C10	C11	C12	C13
ISSUE	29	28	28	28	19	18
SH NO	C14	D1	D2	D3	F1	F2
ISSUE	19	19	19	18	19	
SH NO	F3	F4	F5	F6	G1	

PDI J85500G2.DJ7

AFD	MAO MJM	3-28-91	1

SHT A: ADDED LIST 11, SHELF FOR LIST 3 BAY, MODIFIED LIST 10 FOR LIST 1,2 BAY ONLY. ADD OPTION CODE TO LIST 1,2, 10,11,AA-AX, MODF NT 15,20, 21,24,25,26,28,29,54,69,73, 75, TBL T FAN CC WAS 403834757, 5A FUSE WAS 406195061, DEL 45 DEG LUGS TBL AA, TBL R CP3 SET WAS P301 - 1 & 2. TABLE Z FRN-R AND NON FUSES COMCODES CHGD. ADD NT 8,9. DEL .312 RED, ADD DISTR PNL BOLT SIZES IN TBL AA. TBL W REF FOR WP-92461 WAS FRN-R AND NON. ADD TBL AF. SHTS B,C: UPDATED VIEWS FOR LIST 11 SHELF, BACKBONE BUS AND NEW STYLE STRIPS AND END COVER. SHT F3: DEL 45 DEG LUG REF, ADDED TERM A, B, C REF. SHT G1: 600 LBS WAS 500, 350 LBS WAS 300. SHT D1:IT 17 WAS J85702B-1L3 IT 67 WAS LIST M, IT 68 WAS QTY 1, IT 128 WAS 845368760, IT 129 WAS 846686384, IT 143 WAS 846686376,IT 155,172 WAS LIST 10, IT 205 WAS 845674399, IT 206 WAS 845674407, IT 209 WAS 845674365, IT 210 WAS 845674373, IT 234 QTY WAS 8, IT 240 QTY WAS 20,12, IT 245 QTY WAS 6,12, IT 249 QTY WAS 10,14, ADDED ITS 89,94,95,97, 98,108,160,161,177,224,237, 242,250,253, ADDED LIST 11 TO IT 17,141,148,233,240,245, 249,255, ADDED LIST 10 TO IT 240,249,255, DELETED ITS 67,69,71-73,164-171,211,217. IT 68 QTY WAS 1. IT 198,199, 200 WERE 106497449, 106464498, 106065485. IT 215 WAS 846706174, IT 216 WAS 846706141.
PDI J85500G2.DJ11 CL ME

DIW	MAO MJM	8-2-91	2

CHANGED:
IN SL IM 21 DWG NO WAS ED83119-30 G1.NT 28 WAS UNASSIGNED. IN TBL ""A"" LINE 20 FIGS RD ""14,H11,H12"".IN ISS NT FOR ISS 2, ISS NT FOR SH D1 J85702B-1L3 RD J85702B-1L4.
PDI ED83119-30.DJ9 CL ME

RK	MAO	09-19-91	3
-	MAO		

LINEAGE 2000 ECS BATTERY PLANT
208/240 VAC 50/60 HZ INPUT
-48 VOLT 600 AMPERES MAXIMUM OUTPUT

-	-
-	-
-	-
-	-
SCALE: B	
DISTN CODE: AM10	

MATRIX EBOM VERSION
Plant J85500G2 28

LUCENT TECHNOLOGIES	DJ	J85500G-2	SHEET A1 OF 47	ISSUE 30	DWG SIZE B

TABLE A - FEATURES (CONT.)

LINE	AA DESCRIPTION	AB RATING	AC LIST	AD CIRCUITS AND FIGURES EQUIPPED QTY	AE CIRCUIT	AF FIGURE	AG WIRING	AH APPARATUS
30	OPTIONAL EQUIPMENT IN ADDITION TO FIRST LIST 10 TO PROVIDE AC PREWIRE, (THREE RECTIFIER SHELVES), (SEE NOTE 91).	LA - (SEE NOTE 108)	A	1	T-82673-31	24,24A,H3A	D	
31	OPTIONAL EQUIPMENT IN ADDITION TO A SECOND LIST 10 TO PROVIDE AC PREWIRE (FOUR RECTIFIER SHELVES) (SEE NOTE 91).	LA - (SEE NOTE 108)	B	1	T-82673-31	24,24A,H3A	F	
35	1 TO 30 AMPERE FUSE MOUNTING FOR POS 1 TO 8.	LA - (SEE NOTE 108)	H					
36	31 TO 60 AMPERE FUSE MOUNTING FOR POS 1 TO 8.	LA - (SEE NOTE 108)	J					
37	UNASSIGNED							
40	5 AMPERE BREAKER (SEE NOTE 80)	LA - (SEE NOTE 108)	AA					AA
41	10 AMPERE BREAKER (SEE NOTE 80)	LA - (SEE NOTE 108)	AB					AB
42	20 AMPERE BREAKER (SEE NOTE 80)	LA - (SEE NOTE 108)	AC					AC
43	30 AMPERE BREAKER (SEE NOTE 80)	LA - (SEE NOTE 108)	AD					AD
44	45 AMPERE BREAKER (SEE NOTE 80)	LA - (SEE NOTE 108)	AE					AE
45	60 AMPERE BREAKER (SEE NOTE 80)	LA - (SEE NOTE 108)	AF					AF
46	80 AMPERE BREAKER (SEE NOTE 80)	LA - (SEE NOTE 108)	AG					AG
47	100 AMPERE BREAKER (SEE NOTE 80)	LA - (SEE NOTE 108)	AH					AH
48	15 AMPERE BREAKER (SEE NOTE 80)	LA - (SEE NOTE 108)	AJ					AJ
	LIST AL-AR IS OPTIONAL EQUIPMENT FOR LIST 20 TO PROVIDE SINGLE POLE KS-22012 CIRCUIT BREAKER WITH SHUNT AND THE FOLLOWING RATING: (SEE NOTES 67B, 78, 80)				T-82673-31	16,H12		
50	100 AMPERE BREAKER (SEE NOTE 80)	LA - (SEE NOTE 108)	AL					AL
51	125 AMPERE BREAKER (SEE NOTE 80)	LA - (SEE NOTE 108)	AM					AM
53	175 AMPERE BREAKER (SEE NOTE 80)	LA - (SEE NOTE 108)	AP					AP
55	225 AMPERE BREAKER (SEE NOTE 80)	LA - (SEE NOTE 108)	AR					AR
	LIST AU-AX IS OPTIONAL EQUIPMENT FOR LIST 20 TO PROVIDE 2 OR 3 POLE KS-22012 CIRCUIT BREAKER WITH SHUNT AND THE FOLLOWING RATING: (SEE NOTES 67C,D, 78,80)				T-82673-31	17,18,H13, H14		
60	300 AMPERE 2 POLE BREAKER (SEE NOTE 80)	LA - (SEE NOTE 108)	AU					AU
61	400 AMPERE 2 POLE BREAKER (SEE NOTE 80)	LA - (SEE NOTE 108)	AV					AV
62	500 AMPERE 3 POLE BREAKER (SEE NOTE 80)	LA - (SEE NOTE 108)	AW					AW
63	600 AMPERE 3 POLE BREAKER (SEE NOTE 80)	LA - (SEE NOTE 108)	AX					AX
64	110 AMPERE FUSE AND SHUNT.	LA - (SEE NOTE 108)	AY					AY

TABLE A - FEATURES (CONT.)

LINE	AA DESCRIPTION	AB RATING	AC LIST	AD CIRCUITS AND FIGURES EQUIPPED QTY	AE CIRCUIT	AF FIGURE	AG WIRING	AH APPARATUS
65	125 AMPERE FUSE AND SHUNT.	LA - (SEE NOTE 108)	AZ					AZ
70	150 AMPERE FUSE AND SHUNT.	LA - (SEE NOTE 108)	BA					BA
71	175 AMPERE FUSE AND SHUNT.	LA - (SEE NOTE 108)	BB					BB
72	200 AMPERE FUSE AND SHUNT.	LA - (SEE NOTE 108)	BC					BC
75	70A - 250A FUSE BLOCK HEAD	LA - (SEE NOTE 108)	BP					BP
76	300A - 600A FUSE BLOCK HEAD	LA - (SEE NOTE 108)	BQ					BQ
77	150A LOAD MONITORING SHUNT	LA - (SEE NOTE 108)	BS					BS
78	300A LOAD MONITORING SHUNT	LA - (SEE NOTE 108)	BU					BU
79	600A LOAD MONITORING SHUNT	LA - (SEE NOTE 108)	BX					BX

TABLE A CONTINUED ON PAGE A4

MANUFACTURING NOTES

SHOP / INSTL

1. ( ) - DESIGNATIONS TO BE STAMPED IN ACCORDANCE WITH JOB INFORMATION.
2. [ ] - INDICATES DESIGNATIONS SHOWN FOR INFORMATION ONLY AND ARE NOT TO BE STAMPED.
3. < > - INDICATES INFORMATION PROVIDED IN ACCORDANCE WITH OTHER INFORMATION.
4. ✉ - PARTS THAT ARE TO BE SHIPPED ATTACHED TO OR ENCLOSED IN THE SAME CONTAINER WITH THE ASSOCIATED ASSEMBLED ITEM.

XX 5. S - ITEMS NOT ASSEMBLED WITH BUT SHIPPED SEPARATELY FROM THE EQUIPMENT. DLT - DRAW LINE THROUGH, SEE TABLE DLT FOR REMOVED MATERIAL.

X 6. EQUIPMENT SHALL BE MOUNTED IN THE FRAME POSITIONS AS SPECIFIED BY TABLE U.

X 7. THIS PLANT MAY BE EQUIPPED WITH ED DISTRIBUTION PANELS NOT IDENTIFIED AS A LIST NUMBER. ATTACH TO BAY AS NOTED AND SUPPLY FEEDER CABLE AND MULTED MJF LEAD.

X 8. IF A SECOND LIST 20, OR 36 IS MOUNTED IN POSITION 41-52 USE (2) H-285-226, L-41, (601337645) CABLE ASSY. (SEE SHEET C6)

X 9. REFER TO SHEET C6, FIG A THRU M FOR ALTERNATE FEEDER CABLES WHEN FUSE PANELS ARE MOUNTED IN VARIOUS POSITIONS.

XX 10. SWITCHES AND JUMPERS ON J85501D-2 CONTROLLER SHALL BE SET AS PART OF FACTORY TEST. SETTINGS ARE GIVEN IN TABLE R AND AD. DIP SWITCH AND JUMPER LOCATIONS ARE ALSO GIVEN ON SHEET F1.

XX 11. THE BCB2 CIRCUIT PACK (CP5) SHALL BE CONFIGURED FOR A -42.5 VOLT LOW VOLTAGE DISCONNECT AS PART OF THE FACTORY TEST. SETTINGS ARE GIVEN IN TABLE S. JUMPER LOCATIONS ARE SHOWN IN FIGURE 20 ON SHEET F2. THE BMD1 CIRCUIT PACK IS FACTORY CONFIGURED AS SHOWN IN TABLE ZL. SEE FIGURE 20A ON SHEET F2 FOR SWITCH LOCATION.

LINEAGE 2000 ECS BATTERY PLANT

MATRIX EBOM VERSION PLANT J85500G2 28			SHEET	ISSUE	DWG SIZE
LUCENT TECHNOLOGIES	DJ	J85500G-2	A2	30	B

MANUFACTURING NOTES (CONT'D)

SHOP	INSTL		
X		12.	PRINT CHARACTERS ON LABEL 847230505 ITEM 143, AS FOLLOWS: SERIAL NO XXX DATE: YYMMDD MODEL NUMBER: J85500G-2,L( ) SD:82673-02 INPUT: 208/240 VAC 50/60 HZ 16.5/14 AMPERES PER RECTIFIER OUTPUT: -54 VDC, 600 AMPERES
X		13.	UNASSIGNED
X		14.	STAMP/LABEL THE CHARACTER 'S' USING A CHARACTER SIZE OF 1/8 INCH TO THE RIGHT OF THE WORD 'OPTION' IN THE AREA SHOWN IN SECTION F-F ON SHEET C2.
X		15.	CABLE TIES ARE PROVIDED TO AID IN SECURING AND DRESSING AC-PREWIRE CABLES. USE AS REQUIRED.
	X	16.	FOR EASE OF RECTIFIER INSTALLATION AND FUTURE GROWTH, IT IS RECOMMENDED THAT ALL THREE AC INPUTS TO THE RECTIFIER SHELF ASSEMBLY (RSA) BE WIRED AT INITIAL INSTALLATION. AS AC INPUT MUST ENTER RSA FROM THE RIGHT ADEQUATE CLEARANCE MUST BE MAINTAINED TO ALLOW FOR FUTURE AC CABLING. IF A SUPPLEMENTARY BAY IS ATTACHED TO AN INITIAL BAY IT IS RECOMMENDED THAT FUTURE RSA'S BE INSTALLED IN THE SUPPLEMENTARY BAY. HOWEVER IT IS POSSIBLE (BUT MAY BE DIFFICULT) TO INSTALL FUTURE RSA'S AND ROUTE THE ASSOCIATED AC CABLING IN THE INITIAL BAY. APPROPRIATE LUGS FOR 10 AWG WIRE ARE FURNISHED. REFER TO LABEL ON J85702B-2 RSA (REPRODUCED IN FIGURE 19 ON SHEET F4) FOR WIRE ROUTING, RECOMMENDED AC FITTINGS, CRIMP TOOLS AND TORQUE VALUE.
	X	17.	INSTALLER SHALL ROUTE CP1 WIRING FOR OFFICE ALARMS IN J85501D-2 CONTROLLER THROUGH OPENING IN LEFT SIDE OF THE CHASSIS. ALLOW SLACK IN CABLE LOOP OUTSIDE THE CONTROLLER SO THAT THE CONTROLLER DRAWER WILL SLIDE OUT FREELY. OFFICE ALARM CONNECTION INFORMATION IS PRESENTED IN T-82673-31 AND ON LABEL LOCATED INSIDE OF J85501D-2 CONTROLLER DOOR.
	X	18.	THE INTERNAL SELECTIVE HIGH VOLTAGE SHUTDOWN LEVEL AND LOAD SHARE ENABLE/DISABLE FEATURE ON THE LIST 4 RECTIFIER ARE SET WITH DIP SWITCH 701. THE LOCATION OF DIP SWITCH 701 IS GIVEN IN FIGURE 18 ON SHEET F2. REFER TO THE LABEL LOCATED ON THE FRONT OF THE RECTIFIER FOR DIP SWITCH SETTINGS. A TABLE OF SWITCH SETTINGS IS PROVIDED IN TABLE AC. FACTORY DEFAULT SETTINGS FOR THE LIST 4 RECTIFIER ARE -52.0 VOLTS FLOAT, -54.0 VOLTS EQUALIZE.
X		19.	WHEN LIST 30 AND 31 PANELS ARE ASSEMBLED ON THE FRAME, THE ASSOCIATED CHANNELS SHOULD NOT BE USED.
X	X	20.	LIST 10 RECTIFIER SHELF ASSEMBLY CONTAINS A J85702B-2, L4 SHELF, BUS BAR BRACKETS, MOUNTING BRACKETS AND POSITION INDICATOR LABELS. IF LIST 10 SHELF IS TO BE MOUNTED ABOVE CONTROLLER SHOP IS TO OMIT TWO 6 INCH PANELS AND TWO 12 INCH CHANNELS
X	X	21.	EQUIPMENT SHOULD BE ORDERED SEPARATELY AND FIELD MOUNTED BY INSTALLER.
X		22.	UNLESS OTHERWISE SPECIFIED, ALL COMPONENTS ARE MOUNTED USING 901078717 SCREWS.
	X	23.	DISTRIBUTION PANEL CABLE KIT, K30, CONTAINS (1) KS20921, L1 4/0 WIRE ASSEMBLY (INCLUDING TERMINAL LUGS), AND MOUNTING HARDWARE. INSTALLER SHALL CUT AND FORM CABLE FOR CONNECTION TO THE INITIAL BAY. REFER TO NOTE 74 AND SHEET B8.
X	X	24.	WHEN LIST 20, 30 THRU 36 PANELS ARE ASSEMBLED IN A LIST 3 SUPPLEMENTARY BAY, THE ASSOCIATED FEEDER CABLES ARE NOT REQUIRED. TYPICALLY LIST K30 IS ORDERED AND SHOULD BE FACTORY MOUNTED OR CABLE IS ORDERED SEPARATELY FROM TABLE V AND FIELD INSTALLED.

MANUFACTURING NOTES (CONT'D)

SHOP	INSTL		
X		25.	LIST 11 RECTIFIER SHELF ASSEMBLY CONTAINS A J85702B-2, L4 OR LIST 5 SHELF, (2) 10 FT. KS20921 1/0 WIRE KITS (INCLUDING TERMINAL LUGS), MOUNTING HARDWARE AND RIBBON CABLE. INSTALLER SHALL CUT AND FORM THE CABLES FOR CONNECTION TO THE INITIAL BAY.
	X	26.	UNLESS OTHERWISE SPECIFIED, DISCHARGE RETURN BUS AND FRAMEWORK TO BE SEPARATELY CONNECTED TO APPROVED GROUND CONDUCTOR.
X	X	27.	ITEM 151 AND 154 (RIBBON CABLE ASSY) ARE PART OF THE LIST 1, 2 PLANT AND WHEN LIST 10 RECTIFIER SHELF ASSY NOT SPECIFIED, TO BE TIED TO REAR BRACKET ALLOWING FOR FUTURE FIELD UPGRADE.
X	X	28.	MOUNTING PLATE FOR LIST 20 CIRCUIT BREAKER PANEL CHANGED WITH ISSUE 2 OF THIS DRAWING. IF FIELD UPGRADE FOR ISSUE 1 PLANT IS REQUIRED, ORDER ED83119-30 G1, CIRCUIT BREAKER PANEL INSTEAD OF LIST 20 PANEL.
X		29.	SHOP TO WRAP ALL VERTICALLY RUN KS20921 CABLES (WHICH ARE CABLE TIED TO THE FRAME) WITH 901204149, 824019780 OR 803401165 VULCANIZED FIBRE INSULATING TAPE.
X		30.	SHOP TO ATTACH FEEDER CABLE PER SHT C6 FOR PANELS MOUNTED IN A LIST 1 OR 2 BAY.
X		31.	IF FIELD UPGRADE FOR RECTIFIER SHELF ASSEMBLY FOR PLANTS BUILT PER ISSUE 1 OF THIS DRAWING IS REQUIRED, ORDER LIST 11 RSA AND WIRE PER FIG 4, OPTION K, ON T-82673-31. OTHERWISE, ORDER LIST 10 FOR INITIAL BAY UPGRADE AND LIST 11 FOR SUPPLEMENTARY BAY UPGRADE AND WIRE PER FIG 4, OPTION L ON T-82673-31.
X		32.	WHEN CABLES ARE NOT ORDERED OR MOUNTED BY SHOP, THEN MOUNTING HARDWARE IS TO BE BAGGED AND ATTACHED TO DISTRIBUTION PANEL BUS BAR.
X	X	33.	SEE ENGINEERING NOTE 89.
X		34.	WHEN A LIST 35 PANEL IS SHOP MOUNTED, THE SHOP SHALL REPLACE HARDWARE (801452987, 802841577) WITH ITEMS 230 AND 237
X		35.	THE FACTORY SHALL INSERT THE FIRST RECTIFIER INTERFACE CARD (LIST 33 OF THE J85501F-1) IN SLOT A ON THE REAR OF THE CONTROLLER.
X		36.	THE 846804995 BRACKET IS USED ONLY WITH LISTS 3 AND K1.

ENGINEERING NOTES

51. INFORMATION FURNISHED PER THIS DRAWING IS IN ACCORDANCE WITH THE PRODUCT MANUAL SPECIFIED BY AT&T 167-790-035.

52. THE FRAMEWORK HAS 76 EQUAL MOUNTING POSITIONS ON ONE INCH CENTERLINES, NUMBERED 1 ON BOTTOM TO 76 ON TOP.

53. FIGURES A THRU M ON SHEET B7 FOR AN ECS CONTROLLER AND SHEET B11 FOR A GALAXY CONTROLLER SHOW MOUNTING INFORMATION WHEN LIST 20, 30, 31, 32, 33, 34, 35, AND/OR 36 DISTRIBUTION PANEL(S) ARE ORDERED WITH A LIST 1 OR 2, 15 OR 16 PLANT. WHEN DISTRIBUTION PANEL(S) ARE ORDERED EQUIPPED IN A LIST 3 SUPPLEMENTARY BAY, ENGINEER SHOULD SPECIFY MOUNTING POSITION PER FIGURE ON SHEET B8.

54. LIST 3 SUPPLEMENTARY BAY IS NOT INTENDED FOR MOUNTING AT&T VALVE REGULATED (VR) BATTERIES. AT&T VALVE REGULATED (VR) BATTERIES SHOULD BE MOUNTED IN A UNIVERSAL BATTERY STAND ORDERABLE FROM THE J85500D-3 OR J85504C-1. VR BATTERIES MOUNTED IN A NETWORK BAY FRAME ARE ORDERABLE FROM ED-83242-31. SEE FIG. Y ON SHT G1 FOR FLOOR MOUNTING SPECIFICATIONS FOR ED-83242-31. GENERAL TRADE FLOODED LEAD-ACID BATTERIES CAN ALSO BE USED.

ENGINEERING NOTES (CONT'D)

55. FOR GROWTH UPGRADES OR CABLING OF DISTRIBUTION PANELS REFER TO TABLE V FOR FEEDER CABLE AND BLANK PANEL COMCODES AND SHT B7, B8 OR B11 FOR CONFIGURATIONS ALLOWABLE AND QUANTITIES REQUIRED.

56. LIST 1,2,15,16 PROVIDE BOTH CHARGE AND DISCHARGE PLANT BUS BARS. IF MORE DISCHARGE RETURN TERMINATION POINTS ARE NEEDED, AN EXTERNAL DISCHARGE RETURN BAR CAN BE ADDED TO A CABLE RACK OR FRAME PER ED-83244-30, G1.

    THE EXTERNAL DISCHARGE RETURN BARS ARE RATED FOR 600 AMPS.

    A 4/0 CABLE EQUIPPED WITH TWO HOLE LUGS ON EACH END TO CONNECT THE EXTERNAL RETURN BUS BAR IS ORDERABLE PER COMCODE 846376176 (5 FOOT LENGTH) OR COMCODE 846376184 (10 FOOT LENGTH).

57. THE J85501D-2 CONTROLLER PROVIDED WITH LIST 1 OR 2 IS CONFIGURED BY THE SHOP WITHOUT EQUALIZE CHARGING. (SEE TABLE R AND AD). IN ADDITION, THE FOLLOWING ALARM LEVELS ARE SET FOR BATTERIES WHICH FLOAT AT 2.25V TO 2.27V FOR 24 CELLS.

	ALARM LEVEL
BD	= -53.0V
HV (FLOAT)	= -55.0V
HV (EQUALIZE)	= -57.0V (DISABLED)

    TO CONFIGURE THE CONTROLLER WITH OTHER SETTINGS, LIKE FLOODED BATTERIES, THE ENGINEER SHALL PROVIDE THE INSTALLER WITH THE NECESSARY INFORMATION PER TABLE R AND AD.

58. A LIST 2 PLANT IS FACTORY CONFIGURED FOR A -42.5 LOW VOLTAGE DISCONNECT. TO CONFIGURE THE PLANT WITH A -40.5 LOW VOLTAGE DISCONNECT, THE INSTALLER SHALL CONNECT JUMPERS J505.1 AND J505.2 ON THE BCB2 CIRCUIT PACK (CP5) ACROSS PINS 2 AND 3 OF P505.1 AND P505.2 RESPECTIVELY. SEE TABLE S. JUMPER LOCATIONS ARE GIVEN IN FIGURE 20 ON SHEET F2. A LIST 13 BMD1 CIRCUIT PACK IS FACTORY CONFIGURED AS SHOWN IN TABLE ZL. SEE FIGURE 20A ON SHEET F2 FOR SWITCH LOCATION.

59. ENGINEER TO SPECIFY POSITION INFORMATION OF BREAKERS AND/OR FUSES. POSITIONS ARE NUMBERED FROM LEFT TO RIGHT. (SEE EXAMPLE ORDER IN NOTE 69)

60. LIST K10, CP2 UPGRADE KIT, INCLUDES TWO IC DIPS TO BE ADDED TO AN EXISTING CP2 BOARD TO PROVIDE THE VOICE RESPONSE FEATURE. IF A COMPLETE CP2 BOARD WITH VOICE RESPONSE IS REQUIRED, SPECIFY LIST 7.

61. SPARE PARTS SHALL BE PROVIDED PER TABLE T AND FURNISHED ONLY IN ACCORDANCE WITH CUSTOMER REQUEST.

ENGINEERING NOTES (CONT'D)

62. THE LIST 30 PANEL CONTAINS 3 INDIVIDUAL FUSE BLOCKS, EACH OF WHICH CAN ACCOMMODATE UP TO 8 LOAD FUSES FOR A TOTAL OF UP TO 24 PER PANEL. A 3 IN. PANEL IS ALSO INCLUDED. LOAD FUSES ARE ORDERED ON A JOB BASIS AND ARE NOT PART OF THE EQUIPMENT ORDER. SEE TABLE W AND Z FOR ORDERING INFORMATION.

    THE FOLLOWING RESTRICTIONS APPLY TO L-30 FUSE BLOCKS:

    A. THE MAXIMUM FUSE CURRENT, NOT FUSE SIZE, FOR EACH FUSE BLOCK IN GENERAL SHALL NOT EXCEED 96 AMPERES (288 AMPERES MAXIMUM PER FUSE PANEL). REFER TO SD-82673-02, NOTE 310 FOR DETAILED GUIDELINES FOR MAXIMUM FUSING.

    B. IF FUSES LARGER THAN 15 AMPS ARE USED, ANY ADJACENT FUSE BLOCK POSITION SHOULD BE LEFT UNOCCUPIED.

    C. WHERE POSSIBLE IT IS ALSO RECOMMENDED TO EVENLY DISTRIBUTE THE POWER THROUGHOUT THE FUSE PANEL.

63. THE LIST 31 PANEL HOUSES 8 INDIVIDUAL FUSE BLOCKS, EACH ACCOMMODATING A SINGLE FUSE. SPECIFY DESIRED COMBINATION OF LIST H AND J FUSE BLOCKS TOTALING EIGHT. LOAD FUSES MUST BE ORDERED ON A JOB BASIS AND ARE NOT PART OF THE EQUIPMENT ORDER. SEE TABLE W AND Z FOR ORDERING INFORMATION.

64. THE LIST 32 PANEL HOUSES 4 INDIVIDUAL FUSE BLOCKS (70-100A), EACH ACCOMMODATING A SINGLE FUSE. LOAD FUSES ARE ORDERED ON A JOB BASIS AND ARE NOT PART OF THE EQUIPMENT ORDER. SEE TABLE W AND Z FOR ORDERING INFORMATION.

65. THE LIST 33 PANEL HOUSES 2 INDIVIDUAL FUSE BLOCKS (110-200A), EACH ACCOMMODATING A SINGLE FUSE AND LOAD MONITORING SHUNT. FUSES AND SHUNTS ARE FURNISHED WITH THE PANEL PER LETTERED LISTS AY-BC.

66. THE LIST 34 PANEL HOUSES 3 INDIVIDUAL FUSE BLOCKS, EACH ACCOMMODATING A SINGLE FUSE. TWO OF THE BLOCKS TAKE A (70-100A) LOAD FUSE WHICH MUST BE ORDERED ON A JOB BASIS (SEE TABLE W AND Z FOR ORDERING INFORMATION) AND THE THIRD BLOCK IS FURNISHED WITH A FUSE AND SHUNT (110-200A) BY SPECIFYING ONE OF LETTER LIST AY-BC.

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LUCENT TECHNOLOGIES	DJ	J85500G-2	A3	30	B

ENGINEERING NOTES (CONT'D)

67. THE LIST 20 PANEL CONTAINS 21 SLOTS FOR CIRCUIT BREAKERS AND/OR A CAPACITOR CHARGE FEATURE. THE PANEL (CHARGE BUS BAR) IS SIZED FOR 600 AMPERE CAPACITY. IT IS RECOMMENDED THAT POSITIONING OF LIST AA-AJ BREAKERS START FROM THE LEFT AND LIST AL-AX BREAKERS START FROM THE RIGHT.

A. LIST AA-AJ CIRCUIT BREAKERS OCCUPY 1 SLOT EACH AND A MAXIMUM OF 21 CAN BE ORDERED.
B. LIST AL-AR CIRCUIT BREAKERS OCCUPY 1.5 SLOTS EACH AND A MAXIMUM OF 4 CAN BE ORDERED. (SLOT A THRU D ONLY)
C. LIST AU-AV CIRCUIT BREAKERS OCCUPY 3 SLOTS EACH AND A MAXIMUM OF 2 CAN BE ORDERED. (SLOT B AND D ONLY)
D. LIST AW-AX CIRCUIT BREAKERS OCCUPY 4.5 SLOTS EACH AND A MAXIMUM OF 1 CAN BE ORDERED. (SLOT B ONLY)
E. LIST CA CAPACITOR CHARGE FEATURE OC-CUPIES 4 SLOTS AND A MAXIMUM OF 1 CAN BE ORDERED. (SLOT 10 THRU 13 ONLY)

FOR EXAMPLE, A LIST 20 CAN BE ORDERED WITH 11 LIST AB (10A BREAKERS OCCUPYING 11 SLOTS), 2 LIST AV (400A BREAKERS OCCUPYING 6 SLOTS), AND 1 LIST CA (CAPACITOR CHARGE FEATURE OCCUPYING 4 SLOTS) FULLY OCCUPYING THE 21 SLOTS.

68. 847366788 MICROPROCESSOR BOARD CP2 IS A PLUG-IN BOARDS USED IN THE ECS CONTROLLER. 847366788 INCLUDES A CP2 BOARD, ITS BACKUP BATTERY AND PRODUCT MANUAL.

ENGINEERING NOTES (CONT'D)

69. A SAMPLE ORDER FOR A G-2 PLANT CONTAINING (9) 50-AMPERE RECTIFIERS, A CP2 MICROPROCCESOR PACK, (14) 30-AMPERE BREAKERS, (2) 175-AMPERE BREAKERS, CAPACITOR CHARGE SWITCH/FEATURE, (1) 24 POSITION 1-30A FUSE BLOCK AND STILE STRIPS IN THE INITIAL BAY AND (3) 50-AMPERE RECTIFIERS, A FOURTH RECTIFIER SHELF, (2) 200 AMPERE FUSES AND STILE STRIPS IN A SUPPLEMENTARY BAY WITH BLANK PANELS COVERING THE UPPER HALF OF THE BAY WOULD LOOK LIKE THE FOLLOWING:

ITEM	QTY.	DESCRIPTION
1	1	J85500G-2 L-1 -48V, 600 AMP ECS PLANT ASSEM. PER FIG. B E/W
	1	L-10
	1	L-KA
	1	L-20 CKT BRKR PNL 14 L-AD CKT BRKR POS 1 THRU 9, 14 THRU 18
	2	L-AP CKT BRKR POS B,D
	1	L-CA
	1	L-30 FUSE PANEL
2 1		J85500G-2 L-3 SUPP BAY E/W
	1	L-11
	1	L-K2
	2	L-K30
	1	L-KA
	1	L-33 FUSE PNL BAY POS 65 THRU 70
	2	L-BC FUSE POS 1,2
3 12		107310187 48V 50 AMP SMR
4 1		847366788 MICROPROCESSOR BOARD

NOTE: MULTIPLE LIST 20, 30 THRU 36 DISTRIBUTION PANELS ON A SINGLE BAY MUST BE ITEMIZED TOGETHER. SPECIFY BREAKERS OR FUSES AS PART OF A SPECIFIC PANEL. FOR EXAMPLE, TWO LIST 20 PANELS ON AN INITIAL BAY WOULD LOOK LIKE THE FOLLOWING:

ITEM	QTY.	DESCRIPTION
1	1	J85500G-2 L-1 -48V, 600 AMP ECS PLANT ASSEM. PER FIG. A E/W
	2	L-20 CKT BRKR PNL
	20	L-AD UPPER PNL POS 1 THRU 9, LOWER PNL POS 1 THRU 11

70. LIST CA MUST BE SPECIFIED TO GET THE CAPACITOR CHARGE FEATURE. LIST CA PROVIDES A CHARGE SWITCH AND CURRENT LIMITING RESISTOR ASSEMBLY AND IS OPTIONAL EQUIPMENT ORDERED AS PART OF THE LIST 20 PANEL TO PROVIDE A CHARGE FEATURE. A MAXIMUM OF 17 BREAKERS CAN BE CHARGED WITH THIS OPTION. LIST CA, IF SPECIFIED, ALWAYS OCCUPIES 4 SLOTS IN SLOTS 10-13

71. 846575233 DATALOGGER BOARD CP3, AND 846632982, CP3 (WITH REMOTE TERMINATION PANEL), ARE PLUG-IN BOARDS USED IN THE ECS CONTROLLER. 846575233 AND 846632982 INCLUDE A CP3 BOARD, A SET OF CURRENT LIMITING RESISTOR ASSEMBLIES AND A PRODUCT MANUAL. IN ADDITION, 846632982 INCLUDES A REMOTE TERMINATION PANEL.

ENGINEERING NOTES (CONT'D)

72. LIST 3 PROVIDES A PRODUCT ID PANEL E/W 3 INCH CHANNELS AND SIX (6) 12 INCH CHANNELS MOUNTED ABOVE THE PRODUCT ID PANEL. THE ENGINEER MAY ORDER LIST K2 TO PROVIDE SIX (6) 6 INCH PANELS TO COVER THE OPEN SPACE IN THE UPPER HALF OF THE SUPPLEMENTARY BAY. DISTRIBUTION UNITS SUCH AS LIST 20, 30, 35, ETC WILL MANIPULATE BLANK PANELS AS REQUIRED. THE ENGINEER MAY ORDER LIST K1 TO PROVIDE SIX (6) 6 INCH PANELS AND SIX (6) 12 INCH CHANNELS TO COVER THE OPEN SPACE IN THE LOWER HALF OF THE SUPPLEMENTARY BAY. REFER TO FIGURES 4 AND 12.

73. LIST K3 PROVIDES ONE CLEAR PLASTIC COVER AND (6) BRACKETS, IF NECESSARY, TO COVER THE REAR HALF OF A LIST 3 BAY. REAR COVERS FOR THE INITIAL BAY ARE PROVIDED WITH LIST 1 OR 2. TWO LIST K3 ARE NEEDED TO COMPLETELY COVER THE REAR OF A SUPPLEMENTARY BAY. SPECIFY LOWER OR UPPER HALF FOR LIST K3 IN A LIST 3 BAY.

74. ENGINEER TO ORDER (2) LK30 CABLE KITS FOR LIST 20, 31, 32, 33, 34, 35, OR 36 DISTRIBUTION PANEL MOUNTED IN UPPER HALF OF AN ADJACENT LIST 3 SUPPLEMENTARY BAY; (1) LK30 CABLE KIT FOR LIST 30 DISTRIBUTION PANEL. IF LIST 3 BAY IS NOT LOCATED ADJACENT TO INITIAL BAY, OR DISTRIBUTION PANELS ARE LOCATED IN LOWER HALF OF SUPPLEMENTARY BAY, THEN ORDER CABLE, LUGS, TUBING AND HARDWARE PER TABLE V AND AA. REFER TO NOTE 23 AND SHEET B8.

75. WHEN A LIST 11 RECTIFIER SHELF ASSEMBLY IS MOUNTED IN A LIST 3 SUPPLEMENTARY BAY, THE BAY MUST BE LOCATED ADJACENT TO THE INITIAL BAY. THE RIBBON CABLE SUPPLIED WITH THE SHELF ASSEMBLY IS ONLY 72 INCHES LONG PROHIBITING A REMOTELY MOUNTED RECTIFIER SHELF ASSEMBLY.

76. A CHARGE TOOL FOR 1-30 AMPERE CARTRIDGE FUSES, 783A (COMCODE 102216272), AND FOR 31-60 CARTRIDGE FUSES, 784A (COMCODE 102222791), IS AVAILABLE FOR THE LIST 31 FUSE PANEL.

77. LIST 1 AND 2 PLANTS SHIPPED AFTER SEPTEMBER 15, 1991 HAVE VERTICAL RECTIFIER CHARGE AND CHARGE RETURN BUS BARS RATHER THAN CABLED RECTIFIER SHELF ASSEMBLIES. REFER TO FIG. 5, SHT B4 FOR THE NEW ARRANGEMENT. LIST 15 AND 16 ARE BUS BAR PLANTS

78. IF SHUNT MONITORING IS DESIRED, WITH AN ECS CONTOLLER ORDER TWO 845653674 IN-LINE FUSED WIRES THAT MATE TO EACH KS-22012 BREAKER.

79. LIST 35 MUST BE EQUIPPED WITH A COMBINATION OF 2 GROUPS, BP AND/OR BQ. WITHOUT GROUPS BP OR BQ THERE WILL BE EXPOSED BUS WORK. LIST 35 MAY BE ORDERED WITHOUT SHUNTS (GROUPS BS,BU,BX) FOR FUTURE GROWTH. IF SHUNTS ARE NOT ORDERED THE FEEDER BUS BARS WILL BE SHIPPED LOOSE ON SHIP LOOSE PANELS (NON-X) AND ATTACHED TO THE FEEDER BUS ON FACTORY EQUIPPED PANELS. ADDING SHUNTS TO HOT PLANTS IS NOT RECOMMENDED.

80. FOR FIELD UPGRADE OF L20 CIRCUIT BREAKER PANEL, ORDER CIRCUIT BREAKERS KITS PER TABLE AG, DO NOT ORDER INDIVIDUAL LISTS FOR BREAKERS. IF A CHANGE IS MADE TO THE J85500G-2 LISTS, A CHANGE MUST BE MADE TO THE CORRESPONDING CIRCUIT BREAKER KIT. (SEE TABLE AG)

81. LIST KD (BLANK HINGED DOOR KIT) IS INTENDED FOR USE IN THE EUROPEAN MARKET WHEN THEY PROVIDE THEIR OWN DISTRIBUTION.

82. THE OPTIONAL MICROPROCESSOR BOARD (LIST 5 & LIST 7) FOR THE CONTROLLER WAS RECODED ON ISSUE 4 OF THE DRAWING TO BRING IN MODIFICATIONS REQUIRED FOR UL LISTING. FUNCTIONALITY REMAINS THE SAME, ALTHOUGH THE TYPE OF MEMORY BACKUP BATTERY IS DIFFERENT ON THE NEW CODES (SEE PRODUCT MANUAL 109-790-109). THE NEW CODES ARE DIRECT REPLACEMENTS FOR THE OLD.

ENGINEERING NOTES (CONT'D)

83. -48V SR RECTIFIER (364A, 364A2 L4) WAS RECODED ON ISSUE 4, 14 OF THE DRAWING TO BRING IN NEW FEATURES AND IS NOW 364A3, L4. THE THREE RECTIFIERS ARE BACKWARD AND FORWARD COMPATIBLE AND MAY BE INTERCHANGED AT WILL.

84. 847366820 IS A MICROPROCESSOR CIRCUIT PACK (CP2) WITH X.25/TL1 FUNCTIONS. THIS COMCODE IS A PLUG IN BOARD WHICH IS SHIPPED SEPARATELY. IT INCLUDES A CP2 BOARD, BACKUP BATTERY, WIRING, RS485 TO RS232 CONVERTER, AND A PRODUCT MANUAL. X.25/TL1 IS A DIFFERENT COMMUNICATIONS PROTOCOL THAT MAY BE USED TO ACCESS THE CONTROLLER.

85. REFER TO TABLE 2D FOR ORDERING INFORMATION CONCERNING OPTIONAL EQUIPMENT TO BE USED WITH X.25/TL1 COMMUNICATION SYSTEM OR FOR SOFTWARE UPGRADE TO AN EXISTING MICROPROCESSOR BOARD (CP2). THIS UPGRADE IS NOT AVAILABLE FOR CP 2'S CODED MC80041A1-A4. IF X.25/TL1 OPTION IS DESIRED IN THIS CASE, THEN ORDER NEW CP2 (LIST K11 OR K12).

86. OLDER VERSIONS OF CONTROLLER CP2 (CODED MC80041A1 - MC80041A4) REQUIRE A 1/3N SIZE CYLINDRICALLY SHAPED LITHIUM BACKUP BATTERY. ALL OTHER CODES OF CP2 REQUIRE A BR2032 COIN CELL FOR THE BACKUP BATTERY. SEE TABLE T FOR REPLACEMENT BATTERY ORDERING INFORMATION.

87. THE 847137445 12 INCH BAY EXTENSION MAY BE USED TO RETROFIT EXISTING BAYS ONLY UNDER CERTAIN CIRCUMSTANCES. THE BAY ENVIRONMENT SHOULD BE EXAMINED TO INSURE THAT PHYSICAL OBSTRUCTIONS WILL NOT PRECLUDE EXTENSION INSTALLATION.

88. ONE BOLTING HARDWARE KIT MUST BE ORDERED WITH EACH CONNECTION ORDERED. BOLTING HARDWARE KITS ARE SHOWN ON H569-415. THERE ARE FOUR BASIC KITS AS FOLLOWS:

1/4-20 HARDWARE KIT #1 (GRADE 2)
COMCODE 847073699
3/8-16 HARDWARE KIT #2 (GRADE 2)
COMCODE 847073731
3/8-16 HARDWARE KIT #3 (GRADE 5)
COMCODE 847073749
8-32, 10-24, 10-32 HARDWARE KIT #4
COMCODE 847073756

GRADE 2 HARDWARE IS TO BE ORDERED UNLESS DIRECTED BY CUSTOMER TO USE GRADE 5 HARDWARE FOR EARTHQUAKE AREAS.

89. FOR OMNIPULSE INSTALLATION ENGINEER SHALL SPECIFY SHELF MOUNTING POSITIONS ON JOB ORDER PER JOB SPECIFICATION.

90. THE LIST 36 PANEL HOUSES 19 INDIVIDUAL FUSE BLOCKS, EACH ACCOMADATING A SINGLE FUSE. LOAD FUSES MUST BE ORDERED ON A JOB BASIS AND ARE NOT PART OF THE EQUIPMENT ORDER. (SEE TABLES W & Z FOR ORDERING INFORMATION)

91. THE AC PREWIRE OPTION IS AVAILABLE FOR INITIAL BAYS WITH (3) OR (4) RECTIFIER SHELF ASSEMBLY CONFIGURATIONS ONLY. ONLY LIST B IS SPECIFIED FOR AC PREWIRE OF 4 RECTIFIER SHELVES (2 LIST 10).

92. THE FOLLOWING ARE USED ON THIS DRAWING:

FIGURES 1 THRU 29
A THRU U
SECTIONS AA THRU MM
TT THRU ZZ
VIEWS A THRU D, AND S

LINEAGE 2000 ECS BATTERY PLANT

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LUCENT TECHNOLOGIES	DJ	J85500G-2	A4	30	B

ENGINEERING NOTES (CONT'D)

93. THE SPANISH DOCUMENTATION KIT CONTAINS THE FOLLOWING DOCUMENTS;

SD-82673-02ES
T-82673-31ES
J85500G-2ES
167-790-035ES PRODUCT MANUAL

94. UNASSIGNED

95. ENGINEER MUST ORDER LIST K20, K36 TO K41 CABLE KITS FOR LIST 20, 30 TO 36 BASED ON DIFFERENT DISTRIBUTION CONFIGURATIONS OF INITIAL BAY. REFER TO TABLE K (ECS CONTROLLED) OR TABLE L (GALAXY CONTROLLED) FOR QUANTITY OF CABLE KITS REQUIRED PER DISTRIBUTION OPTIONS SHOWN ON SHEETS B7 (ECS) AND B13 (GALAXY). SEE NOTE 69, ITEM 2 FOR EXAMPLE ORDER.

96. REAR ACCESS IS REQUIRED FOR CONNECTION TO THE GALAXY CONTROLLER. THE GALAXY CONTROLLER IS FACTORY CONFIGURED TO WITH VARRIOUS DIP SWITCH OPTIONS. SEE J85501F-1 FOR A LIST OF THE FACTORY DEFAULTS AND USER CHOICES.

97. GALAXY CONTROLLER OPTIONS MUST BE ORDERED SEPERATELY (SEE J85501F-1). THE CONTROLLER PROVIDED AS PART OF LIST 15 OR LIST 16 IS CONFIGURED AS FOLLOWS:

J85501F-1 (1) LIST 1 BASIC UNIT
(1) LIST 11 NEG 48V
(1) LIST 22 EIGHT RECT CONTROL
(1) LIST 35 RECT CABLE INTER

98. THE THERMAL COMPENSATION EXPANSION KIT (ITEM A1, TABLE BC) IS FURNISHED WITH LIST 12 OR 13 TO PROVIDE MONITORING FOR MORE THAN FOUR STRINGS OF BATTERIES.

99. THE THERMAL COMPENSATION RETROFIT KIT (ITEM A2, TABLE BC) SHOULD BE ORDERED TO UPGRADE AN EXISTING J85500G2 BATTERY PLANT WITH THE THERMAL COMPENSATION (SLOPE/STEP) FEATURE. IT MUST BE ORDERED AS A SEPARATE ITEM.

100. THE PADDLES (ITEM A3 TABLE BC) IN THE THERMISTOR KIT (847618048) ARE REQUIRED FOR VALVE REGULATED (VR) BATTERIES. THE KIT CONTAINS TWO THERMISTORS THAT ARE INSERTED BETWEEN THE BATTERY CELLS AND ASSOCIATED CABLE ASSEMBLES. IT MUST BE ORDERED AS A SEPARATE ITEM.

101. THE RINGS (ITEM A4, TABLE BC)IN THE THERMISTOR KIT (847618063) ARE REQUIRED FOR BATTERY CELLS WHICH ARE NOT ADJACENT. (E.G. AN AIR CAP IS PRESENT BETWEEN CELLS). THE RING TERMINAL IS A 1/4" DIAMETER RING TERMINAL. PLACE IT ON THE NEGATIVE TERMINAL OF THE BATTERY. THE KIT CONTAINS TWO THERMISTORS AND ASSOCIATED CABLE ASSEMBLY. IT MUST BE ORDERED AS A SEPARATE ITEM.

102. THIS KIT MAY CONTAIN EXTRA HARDWARE NOT REQUIRED TO INSTALL CERTAIN LISTS IN THE FIELD.

103. INSTALLERS MAY RUN THE 846708493 CABLES ACROSS TO ADJACENT BAY. THE INSTALLER DOES NOT HAVE TO RUN THE CABLE UP TO THE CABLE TRAY.

104. INSTALLERS MAY USE THE LIST K5 CABLE (848232765) IN PLACE OF THE CABLE (LUCENT COMCODE 847586815) USED WITH THE THERMAL COMPENSATION KIT OPTION.

105. LIST K6 SHOULD BE ORDERED WHEN A J85702B2 L4 SHELF IS ORDERED TO BE USED IN A J5500G2 BATTERY PLANT THAT WAS MANUFACTURED BEFORE APRIL 1996. THE BUSBARS THAT ARE NORMALLY FURNISHED WITH THIS SHELF MAY BE TOO SHORT.

106. SEE TABLE B FOR KIT COMCODE.

107. ON SHEET D1 ITEM NUMBER 104 CONTACTOR WAS REPLACED WITH ITEM 103 CONTACTOR BY A TEMPORARY PDI. ITEM 105 WAS SELECTED AS PERMANENT CONTACTOR AND REPLACED ITEM 103 ON ISSUE 26 OF THIS J85500G2 DRAWING. ITEM 103 WAS PLACED ON THE D1 SHEET TO SHOW THE PREVIOUS CONTACTOR FOR DOCUMENTATION PURPOSES.

ENGINEERING NOTES (CONT'D)

108. THE J85500G-2 IS SCHEDULED TO GO DA (DISCONTINUED AVAILIBILTY) AS OF 09-30-00. THE J85500G-2 BATTERY PLANT IS BEING REPLACED BY THE GPS 4812, ORDERED THROUGH THE H569-436 ORDERING GUIDE.

(TO MAINTAIN EXISTING J85500G-2 PRODUCT ONLY, SPARE PARTS MAY BE ORDERED BY COMCODE FROM THE TABLES FOUND ON THE A SHEETS.)

TABLE A (CONTINUED) - FEATURES

LINE	AA DESCRIPTION	AB RATING	AC LIST	AD QTY.	AE CIRCUIT	AF FIG.	AG WIRING	AH APPARATUS
					CIRCUITS AND FIGURES EQUIPPED			
70	OPTIONAL EQUIPMENT FOR LIST 20 TO PROVIDE A CAPACITOR CHARGE FEATURE TO PRECHARGE HIGH INRUSH LOADS. (SEE NOTE 67E, 70)	LA -(SEE NOTE 108)	CA		T-82673-31	19		P
80	BLANK PANEL APPEARANCE KIT FOR LOWER HALF OF LIST 3 SUPPLEMENTARY BAY. (MAX. 1 PER LIST 3.) (SEE NOTE 72)	LA -(SEE NOTE 108)	K1					
81	BLANK PANEL APPEARANCE KIT FOR UPPER HALF OF LIST 3 SUPPLEMENTARY BAY. (MAX. 1 PER LIST 3.) (SEE NOTE 72)	LA -(SEE NOTE 108)	K2					
82	REAR COVER KIT FOR ONE-HALF OF SUPPLEMENTARY BAY (MAX. 2 PER LIST 3). (SEE NOTE 73)	LA -(SEE NOTE 108)	K3					
83	TWELVE INCH EXTENSION FOR USE IN AN EIGHT FOOT FRAME ENVIRONMENT. (SEE FIG.23 ON SHEET F4) (SEE NOTE 87, SEE NOTE 106)	DA	K4	1				
84	35' EXTENSION CABLE FOR THERMAL (SLOPE/STEP) FEATURE (SEE NOTE 104).	LA -(SEE NOTE 108)	K5	1	T-82673-31	H23,H24		
85	SUPPLEMENTARY INTERCONNECT BUSBARS FOR J85702B2 SHELF (SEE NOTE 105).	LA -(SEE NOTE 108)	K6	1	T-82673-31	4		X
90	OPTIONAL EQUIPMENT FOR PLANT CONTROLLER EQUIPPED WITH LIST 5 (CP2). PROVIDES AN UPGRADE KIT TO ADD THE VOICE RESPONSE FEATURE TO A PLANT CONTROLLER IN THE FIELD. (SEE NOTE 21,60)	DA	K10	1	T-82673-31	H15		J
91	SAME AS LIST 5 WITH X.25/TL1 FEATURES (SEE NOTES 21, 84, 85, 86, & 106)	DA	K11	1	T-82673-31	H15		
92	SAME AS LIST 7 WITH X.25/TL1 FEATURES (SEE NOTES 21, 84, 85, 86)	DA	K12	1	T-82673-31	H15		
98	DISTRIBUTION PANEL CABLE KIT FOR LIST 20 OR 36 INITIAL BAY - H285-226,L-20 FEEDER CABLE(SEE NOTE 95)	LA -(SEE NOTE 108)	K20	1	T-82673-31	7, 8 11-14		
100	DISTRIBUTION PANEL CABLE KIT FOR LIST 3 SUPPLEMENTARY BAY - 10 FEET 4/0 CABLE AND ASSOCIATED HARDWARE. (SEE NOTES 23, 74)	LA -(SEE NOTE 108)	K30	1	T-82673-31	7, 8 11-14		W
102	DISTRIBUTION PANEL CABLE KIT FOR LIST 30 TO 35 INITIAL BAY - H285-226,L-36 FEEDER CABLE(SEE NOTE 95)	LA -(SEE NOTE 108)	K36	1	T-82673-31	7, 8 11-14		
103	DISTRIBUTION PANEL CABLE KIT FOR LIST 30 TO 35 INITIAL BAY - H285-226,L-37 FEEDER CABLE(SEE NOTE 95)	LA -(SEE NOTE 108)	K37	1	T-82673-31	7, 8 11-14		
104	DISTRIBUTION PANEL CABLE KIT FOR LIST 30 TO 35 INITIAL BAY - H285-226,L-38 FEEDER CABLE(SEE NOTE 95)	LA -(SEE NOTE 108)	K38	1	T-82673-31	7, 8 11-14		
105	DISTRIBUTION PANEL CABLE KIT FOR LIST 30 TO 35 INITIAL BAY - H285-226,L-39 FEEDER CABLE(SEE NOTE 95)	LA -(SEE NOTE 108)	K39	1	T-82673-31	7, 8 11-14		
106	DISTRIBUTION PANEL CABLE KIT FOR LIST 30 TO 35 INITIAL BAY - H285-226,L-40 FEEDER CABLE(SEE NOTE 95)	LA -(SEE NOTE 108)	K40	1	T-82673-31	7, 8 11-14		
107	DISTRIBUTION PANEL CABLE KIT FOR SECOND LIST 20 OR 36 INITIAL BAY - H285-226,L-41 FEEDER CABLE (SEE NOTE 95)	LA -(SEE NOTE 108)	K41	1	T-82673-31	7, 8 11-14		
110	FRONT STILE STRIP APPEARANCE KIT. (RIGHT AND LEFT SIDES,MAX. 1 PER LIST 1, 2 OR 3.)	LA -(SEE NOTE 108)	KA					
111	END COVER APPEARANCE KIT FOR EITHER END OF A BAY LINEUP. (MAX. 2 PER BAY LINEUP.)	LA -(SEE NOTE 108)	KB					
113	HINGED DOOR KIT (PROVIDES BLANK DOOR AND NECESSARY MOUNTING HARDWARE. SEE NOTE 81)	LA -(SEE NOTE 108)	KD					
125	SPANISH DOCUMENTATION KIT (SEE NOTE 93)	LA -(SEE NOTE 108)	ES					

LINEAGE 2000 ECS BATTERY PLANT

MATRIX EBOM VERSION PLANT J85500G2 28			SHEET	ISSUE	DWG SIZE
LUCENT TECHNOLOGIES	DJ	J85500G-2	A5	30	B

TABLE AA

RECOMMENDED DOUBLE HOLE TERMINAL LUGS

STR WIRE	FLEX WIRE	WP-91412 LIST	COMCODE	BOLT SIZE	CENTERS	DIE
10	10	73	405356171	10	0.62	R5473
8	8	52	405348178	10	0.62	RED
8	8	75	406021626	0.25	0.62	RED
6	6	3	405347519	0.25	0.62	BLUE
4	4	5	405347576	0.25	0.62	GREY
2	-	54	405348202	0.25	0.62	BROWN
-	2	8	405347683	0.25	0.62	GREEN
1/0	-	56	405348228	0.375	1.0	PINK
-	1/0	57	405348236	0.375	1.0	BLACK
2/0	-	57	405348236	0.375	1.0	BLACK
-	2/0	77	406021725	0.375	1.0	ORANGE
4/0	-	59	405348251	0.375	1.0	PURPLE
-	4/0	27	405347923	0.375	1.0	YELLOW

RECOMMENDED SINGLE HOLE TERMINAL LUGS

STR WIRE	FLEX WIRE	WP-91412 LIST	COMCODE	BOLT SIZE	DIE
10	10	93	406338145	10	R5473
8	8	1	405347402	10	RED
10-12	10-12	94	406338152	0.25	
8	8	74	405356189	0.25	RED
6	6	2	405347436	0.25	BLUE
4	4	4	405347543	0.25	GREY
2	-	53	405348186	0.25	BROWN
-	2	7	405347659	0.25	GREEN
1/0	-	125	406338707	0.25	PINK
2/0	1/0	188	408018190	0.25	BLACK
1/0	-	55	405348210	0.375	PINK
-	1/0	10	405347717	0.375	BLACK
2/0	-	10	405347717	0.375	BLACK
-	2/0	17	405347790	0.375	ORANGE
4/0	-	58	405348244	0.375	PURPLE
-	4/0	78	406021741	0.375	YELLOW

MOUNTING HARDWARE KITS REQ'D PER EQUIPPED POS. (SEE NOTE 88)

BOLT SIZE	COM-CODE	QTY.	DESCRIPTION
10	847073756	1	HARDWARE KIT #4
0.250	847073699	1	HARDWARE KIT #1
0.375	GRADE 2 847073731 OR GRADE 5 847073749	1	GRADE 2 HARDWARE KIT #2 OR GRADE 5 HARDWARE KIT # 3

MAXIMUM WIRE SIZES FOR DISTRIBUTION PANELS

LIST NO.	PANEL DESCRIPTION	BOLT SIZE	MAX. WIRE SIZE
20	5-100A BREAKERS	0.250	2
	125-225A BREAKERS	0.375	2/0 FLEX
	125-225A BREAKERS	0.375	4/0 STR
	300-600A BREAKERS	0.375	4/0
30	0-30A FUSES	10	8
31	0-60A FUSES	0.250	4
32	70-100A FUSES	0.375	4/0
33	110-200A FUSES	0.375	4/0
34	70-200A FUSES	0.375	4/0
35	70-600A FUSES	0.375	4/0
36	3-60A FUSES	0.250	2/0

TABLE AB - TIGHTENING TORQUES

ELECTRICAL CONNECTIONS (E.G., BUS BARS)

SCREW SIZE	TORQUE - IN-LBS. OR (FT-LBS.) WIRE CONNECTORS	MECHANICAL CONNECTORS
8-32	15	19
10-24	21	27
1/4-20	50	65
5/16-18	100	135
3/8-16	180	240
7/16-14	280	385
1/2-13	(42)	(49)
5/8-11	(71)	97)
3/4-10	(125)	(172)

NON-ELECTICAL CONNECTIONS (E.G., FLOOR ANCHORS)

SCREW SIZE	TORQUE - FT-LBS.
1/4	6
3/16	12
3/8	22
7/16	35
1/2	60
9/16	77
5/8	107
3/4	190
1	290
1-1/4	580
1-1/2	1010

TABLE AC - RECTIFIER DIP SWITCH SW701 SETTINGS FOR SR50/-48V RECTIFIER (SEE NOTE 18)

SWITCH SETTINGS (0=OPEN, 1=CLOSED)

INTERNAL SELECT HVSD (VOLTS)	1	2	3	4	LOAD SHARE 5
-50.0	1	1	1	1	
-51.0	1	1	1	0	
-52.0	1	1	0	1	
-53.0	1	1	0	0	1=ENABLED
-54.0	1	0	1	1	0=DISABLED
-55.0	1	0	1	0	
-56.0	1	0	0	1	
-57.0	1	0	0	0	
-58.0	0	1	1	1	

TABLE AD: DIP SWITCH FOR AN ECS CONTROLLER (SEE NOTES 10, 57)

SWITCH SETTINGS (0 = OPEN, 1 = CLOSED)

SW 101-HV/EQ	SW 102-HV/FL	SW 103-BD	SWITCH SETTING -1	-2	-3	-4	-5	-6
-51.00	-49.00	-46.00	1	1	1	1	1	0
-51.50	-49.50	-46.50	0	1	1	1	1	0
-52.00	-50.00	-47.00	1	0	1	1	1	0
-52.50	-50.50	-47.50	0	0	1	1	1	0
-53.00	-51.00	-48.00	1	1	0	1	1	0
-53.50	-51.50	-48.50	0	1	0	1	1	0
-54.00	-52.00	-49.00	1	0	0	1	1	0
-54.50	-52.50	-49.50	0	0	0	1	1	0
-55.00	-53.00	-50.00	1	1	1	0	1	0
-55.50	-53.50	-50.50	0	1	1	0	1	0
-56.00	-54.00	-51.00	1	0	1	0	1	0
-56.50	-54.50	-51.50	0	0	1	0	1	0
-57.00	-55.00	-52.00	1	1	0	0	1	0
-57.50	-55.50	-52.50	0	1	0	0	1	0
-58.00	-56.00	-53.00	1	0	0	0	1	0
-58.50	-56.50	-53.50	0	0	0	0	1	0
-59.00	-57.00	-54.00	1	1	1	1	0	0
-59.50	-57.50	-54.50	0	1	1	1	0	0
-60.00	-58.00	-55.00	1	0	1	1	0	0

TABLE AE: CP2 DIP SWITCH SETTINGS (0 = OPEN, 1 = CLOSED)

SW202	FUNCTION	OPTION	SWITCH SETTING		
-1	REMOTE TR	ENABLED	0		
		DISABLED	1		
			-2	-3	-4
-2 -3 -4	SHUNT SIZE	600A	0	0	1
-5	-- RESERVED --				
-6	MAXIMUM NUMBER OF RECTIFIERS	12 RECTIFIERS	0		
-7	NOMINAL BATTERY PLANT VOLTAGE	-48 VOLTS	0		
-8	LOCAL PORT	TERMINAL	0		
		PRINTER	1		

TABLE AF

DISCHARGE RETURN LEADS PER DISCHARGE RETURN BAR NUMBER OF TERMINATION POINTS (SEE FIG.22 SHEET F3)

TERM A	TERM B	TERM C
1/0-350MCM	8-2AWG	10-14AWG
6	0	24
6	1	23
6	2	21
6	3	19
6	4	18
6	5	16
6	6	14
6	7	13
6	8	11
6	9	9
6	10	8
6	11	6
6	12	4
5	14	4
4	16	4
3	18	4
2	20	4
1	22	4
0	24	4

TABLE AG SEE NOTE 80

FIELD INSTALLABLE CIRCUIT BREAKER KITS

J85500G-2 OR ED83119-30 GROUP-LIST	COMCODE OF KIT	AMPS	H569-377 GROUP	KS NUMBER
AL	848241022	100	59	KS22012 L11
AM	848241030	125	60	KS22012 L13
AP	848241048	175	61	KS22012 L15
AR	848241055	225	62	KS22012 L17
AU	848241063	300	70	KS22012 L43
AV	848241089	400	71	KS22012 L44
AW	848241097	500	80	KS22012 L45
AX	848241105	600	81	KS22012 L46
AA	848241113	5	50	KS22010 L79
AB	848241121	10	51	KS22010 L80
AJ	848241139	15	52	KS22010 L81
AC	848241147	20	53	KS22010 L82
AD	848241154	30	54	KS22010 L84
AE	848241162	45	55	KS22010 L95
AF	848241188	60	56	KS22010 L97
AG	848241196	80	57	KS22010 L99
AH	848241212	100	58	KS22010 L85

TABLE B

ORDER KIT COMCODE INSTEAD OF LIST

LIST 4	107310187
LIST 5	846366788
LIST 8	846575223
LIST 9	846632982
LIST K4	847137445
LIST K11	847366820

LINEAGE 2000 ECS BATTERY PLANT

MATRIX EBOM VERSION PLANT J85500G2 28			SHEET	ISSUE	DWG SIZE
LUCENT TECHNOLOGIES	DJ	J85500G-2	A6	30	B

TABLE BC (SEE NOTE 98-102)

SUPPLEMENTARY COMPONENTS ASSOCIATED WITH THE THERMAL COMPENSATION FEATURE WHICH ARE FIELD INSTALLED

ITEM	DESCRIPTION	CODE	WIRING INFORMATION
A1	THERMAL COMPENSATION (SLOPE/STEP) EXPANSION KIT (SEE NOTE 98,102)	847732377	T-82673-31 FIG 1A,H23,H24
A2	THERMAL COMPENSATION (SLOPE/STEP) RETROFIT KIT (SEE NOTE 99,102)	847732088	T-82673-31 FIG 1A,H23,H24
A3	THERMISTOR KIT, PADDLES (SEE NOTE 100)	847618048	T-82673-31 FIG H23,H24
A4	THERMISTOR KIT, RINGS (SEE NOTE 101)	847618063	T-82673-31 FIG H23,H24

TABLE DLT - REMOVED MATERIAL

ITEM	LISTS	FORMER QTY PER LIST	ISSUE REMOVED
1	1,2,3	7	10
17	1,2	2	16
17	10,11	1	16
69	20,36	2	16
70	30	1	16
70	31,32 33,34,35	2	16
76	4	1	26
77	4	1	14
80	5	1	26
81	7	1	26
82	K10	1	26
83	K11	1	26
84	K12	1	26
85	8	1	26
86	9	1	26
103	2,16	1	26
104	2,16	1	26
124	K3	1	15
124	1,2	2	15
146	1,2,3	1	14
157	A	1	14
158	A	1	14
159	A	1	14
160	B	1	14
163	A	1	14
164	A,B	1	14
165	A	1	14
190	A	1	14
200	1,2,15,16	1	27
225	1,2	14	14
225	K3	6	14
272	K4	1	26

TABLE K

INITIAL BAY (ECS)
FEEDER CABLES FOR DIFFERENT CONFIGURATIONS
SEE SHEET B7 & NOTE 95

CONFIGURATION	MOUNTING LOCATION	ASSOCIATED FEEDER CABLE LIST	QTY REQ'D CABLE KITS	ORDERING CODE
LIST 20 OR 36 FIG.A	53-64	K20(H285-226,L-20)	2	601286297
LIST 20 OR 36(1ST)	53-64	K20(H285-226,L-20)	2	601286297
LIST 20 OR 36(2ND) FIG.A	41-52	K41(H285-226,L-41)	2	601337645
LIST 20 OR 36	53-64	K20(H285-226,L-20)	2	601286279
LIST 30 FIG.B	50-52	K39(H285-226,L-39)	1	601326200
LIST 20 OR 36	53-64	K20(H285-226,L-20)	2	601286279
LIST 30	50-52	K39(H285-226,L-39)	1	601326200
LIST 30 FIG.C	44-46	K40(H285-226,L-40)	1	601326218
LIST 20 OR 36	53-64	K20(H285-226,L-20)	2	601286279
LIST 31 THRU 35 FIG.D	41-46	K40(H285-226,L-40)	2	601326218
LIST 31 THRU 35	53-58	K38(H285-226,L-38)	2	601326192
LIST 20 OR 36 FIG.E	41-52	K41(H285-226,L-41)	2	601337645
LIST 30	62-64	K37(H285-226,L-37)	1	601326184
LIST 31 THRU 35	53-58	K38(H285-226,L-38)	2	601326192
LIST 20 OR 36 FIG.F	41-52	K41(H285-226, L41)	2	601337645
LIST 31 THRU 35	53-58	K38(H285-226,L-38)	2	601326192
LIST 31 THRU 35 FIG.G	41-46	K40(H285-226,L-40)	2	601326218
LIST 31 THRU 35	53-58	K38(H285-226,L-38)	2	601326192
LIST 30	50-52	K39(H285-226,L-39)	1	601326200
LIST 31 THRU 35 FIG.H	41-46	K40(H285-226,L-40)	2	601326218
LIST 30	62-64	K37(H285-226,L-37)	1	601326184
LIST 20 OR 36 FIG. J	41-52	K41(H285-226, L41)	2	601337645
LIST 30	62-64	K37(H285-226,L-37)	1	601326184
LIST 30	56-64	K38(H285-226,L-38)	1	601326192
LIST 20 OR 36 FIG.K	41-52	K41(H285-226, L41)	2	601337645
LIST 30	62-64	K37(H285-226,L-37)	1	601326184
LIST 30	56-58	K38(H285-226,L-38)	1	601326192
LIST 31 THRU 35 FIG.L	47-52	K39(H285-226,L-39)	2	601326200
LIST 30	62-64	K37(H285-226,L-37)	1	601326184
LIST 30	56-58	K38(H285-226,L-38)	1	601326192
LIST 30	50-52	K39(H285-226,L-39)	1	601326200
LIST 31 THRU 35 FIG.M	41-46	K40(H285-226,L-40)	2	601326218

LINEAGE 2000 ECS BATTERY PLANT

MATRIX EBOM VERSION PLANT J85500G2 28			SHEET	ISSUE	DWG SIZE
LUCENT TECHNOLOGIES	DJ	J85500G-2	A7	30	B

TABLE L

INITIAL BAY (GALAXY)
FEEDER CABLES FOR DIFFERENT CONFIGURATIONS
SEE SHEET B13 & NOTE 95

CONFIGURATION	MOUNTING LOCATION	ASSOCIATED FEEDER CABLE LIST	QTY REQ'D CABLE KITS	ORDERING CODE
LIST 20 OR 36 FIG.A	53-64	K20 (H285-226,L-20)	2	601286297
LIST 20 OR 36 LIST 30 FIG.B	53-64 50-52	K20 (H285-226,L-20) K38 (H285-226,L-38)	2 1	601286297 601326192
LIST 31 THRU 35 FIG. E	53-58	K37 (H285-226,L-37)	2	601326184
LIST 30 LIST 31 THRU 35 FIG.F	62-64 53-58	K36 (H285-226,L-36) K37 (H285-226,L-37)	1 2	601326176 601326184
LIST 31 THRU 35 LIST 30 FIG. H	53-58 50-52	K37 (H285-226,L-37) K38 (H285-226,L-38)	2 1	601326184 601326192
LIST 30 FIG. J	62-64	K36 (H285-226,L-36)	1	601326176
LIST 30 LIST 30 FIG. K	62-64 56-58	K36 (H285-226,L-36) K37 (H285-226,L-37)	1 1	601326176 601326184
LIST 30 LIST 30 LIST 30 FIG. M	62-64 56-58 50-52	K36 (H285-226,L-36) K37 (H285-226,L-37) K38 (H285-226,L-38)	1 1 1	601326176 601326184 601326192

TABLE R: DEFAULT FACTORY SETTINGS ECS CONTROLLER (SEE NOTES 10, 57)

JUMPER SETTINGS

BOARD	HEADER	JUMPER PINS	FUNCTION
BACKPLANE 846575280	P602.1 P602.2 P602.3 P602.4	2 & 3	-48 VOLTS
CP1	P105	1 & 2	RESTART ENABLED
	P106	1 & 2	EQUALIZE DISABLED
	P108	1 & 2	FOR SR-SERIES RECTIFIERS
CP4 (113B DISPLAY)	P401	1 & 2	SHUNT SIZE LESS THAN 1000A
CP3	P302	2 & 3	-48 VOLTS

SWITCH SETTINGS (0 = OPEN, 1 = CLOSED)

BOARD	SWITCH	FUNCTION	SWITCH SETTING -1	-2	-3	-4	-5	-6	-7	-8
CP1	SW101	HV/EQ LEVEL (-57 VOLTS)	1	1	0	0	1	0	N/A	
	SW102	HV/FL LEVEL (-55 VOLTS)	1	1	0	0	1	0	N/A	
	SW103	BD LEVEL (-53 VOLTS)	1	0	0	0	1	0	N/A	
	SW109	METER SHUNT (600 AMPS)	1	0	0	0	0	0	N/A	
CP2	SW202	(SEE TABLE AE)	0	0	0	1	0	0	0	0

TABLE S:
LOW VOLTAGE DISCONNECT SETTINGS
BCB2 OR BAD9 - (CP5) (SEE NOTES 11,58)

HEADER	JUMPER PINS	FUNCTION
P505.1,P505.2	1 & 2	-42.5 VOLTS
P505.1,P505.2	2 & 3	-40.5 VOLTS

TABLE T - RECOMMENDED SPARE PARTS (SEE NOTE 61)

ORDERING CODE	DESCRIPTION	REFERENCE
846835882	DC FAN (KS22501 L15) KIT	
106394398	CP-BCB2 LVD/FUSE BOARD	CP5
106395064	113B CONTROL UNIT	CP1
405673146	1 1/3 A FUSE (WP90247L7)	BCB2 F1-11,F13-18
405181983	2 A FUSE (WP90247L9)	BCB2 F12
406159061	5 A FUSE (WP90247L13)	BCB2 F19-21
406281428	BACKUP BATTERY FOR CP2 (SANYO CR1/3N) SEE NOTE 86	(BCB1) BT201
406526079	BACKUP BATTERY FOR CP2 (PANASONIC BR2032) NOTE 86	(BCB1B) BT201
107310187	50-AMPERE RECTIFIER	A-PU/364A3
847366788	CP2 CIRCUIT PACK KIT	CP2
846575223	CP3 CIRCUIT PACK KIT	CP3
107697955	A CP-BMD1 LVD/R FUSE THERMAL COMPENSATION (SLOPE/STEP) BOARD	CP5
107617516	CU-216A THERMAL COMPENSATION CONTROL UNIT	CU216A
108887340	FUSE PANEL FOR (2) 110-200A LOAD FUSES	J85500G-2 LIST 33
108887332	150 AMPERE FUSE AND SHUNT	J85500G-2 LIST BA

TABLE U
EQUIPMENT POSITIONING GUIDELINES FOR MANUFACTURING PERSONNEL

DESCRIPTION	POSITIONS OCCUPIED	MOUNTING LOCATIONS
BUS BAR ASSY, DISCHARGE RTN	3	74-75
BUS BAR ASSY, CHARGE BUS	2	72-73 (REAR)
BUS BAR ASSY, CHARGE RTN	2	68-69 (REAR)
LOW VOLTAGE DISCONNECT/RECONNECT	8	66-73
RECTIFIER SHELF ASSY #1	4	26-29
RECTIFIER SHELF ASSY #2	4	14-17
RECTIFIER SHELF ASSY #3	4	2-5
RECTIFIER SHELF ASSY #3 (SUPP BAY)	4	26-29
RECTIFIER SHELF ASSY #4	4	41-44
RECTIFIER SHELF ASSY #4 (SUPP BAY)	4	14-17
AC PREWIRE BOX (INITIAL BAY)	2	60-61
ECS CONTROLLER	3	38-40
GALAXY CONTROLLER	9	38-46
REAR COVER, CLEAR	38	39-76, 1-38
L-30 FUSE PANEL (INITIAL BAY)	3	44-46, 50-52 56-58, 62-64
L-31 THRU 35 FUSE PANEL (INITIAL BAY)	6	41-46, 47-52 59-64
L-20 AND 36 BREAKER PANEL (INITIAL BAY)	12	53-64, 41-52

TABLE V (SEE NOTE 55)

SUPPLEMENTARY BAY
FEEDER CABLE AND BLANK PANEL
ORDERING REFERENCE

USED WITH	ORDERING CODE	DESCRIPTION
DISTRIBUTION PNLS	401710769	4/0 CABLE (SPECIFY LENGTH)
	405347923	TERM LUG, 2 HOLE, 3/8, WP91412 L27
	406021741	TERM LUG, 1 HOLE, 3/8, WP91412 L78
	402017214	TUBING, KS21709, L1
LIST 3 BAY	843780008	3"" BLANK PANEL
	843780016	6"" BLANK PANEL

TABLE W

LOAD AND ALARM FUSE SPECIFICATION
(SEE TABLE Z FOR FUSE ORDER INFORMATION)

LIST	LOAD FUSE	MAX. NO. OF FUSES PER PANEL	ASSOCIATED ALARM FUSE	DESIGNATION PIN
30	9/32 X 1-1/4 INCH 74 TYPE (1.25-20 AMP) KS-19780 (2-30 AMP)	24 (SEE NOTE 62)	FURNISHED WITH PANEL	FURNISHED WITH PANEL
31 & H	9/16 X 2 INCH BARREL TYPE, WP-92461 (1-30 AMP)	8	FURNISHED WITH PANEL	FURNISHED WITH PANEL
31 & J	13/16 X 3 INCH BARREL TYPE, WP-92461 (35-60 AMP)	8	FURNISHED WITH PANEL	FURNISHED WITH PANEL
32	BLADE TYPE, WP-92461 (70-100 AMP)	4	70G, 1/2 AMP	KS-14174, L7
33 & AY, AZ, BA, BB OR BC	NON (110-200 AMP) (FURNISHED WITH PANEL PER LETTERED LISTS)	2	FURNISHED WITH PANEL	FURNISHED WITH PANEL
34	BLADE TYPE, WP-92461 (70-100 AMP)	2	70G, 1/2 AMP	KS-14174, L7
34 & AY, AZ, BA, BB OR BC	NON (110-200 AMP) (FURNISHED WITH PANEL PER LETTERED LISTS)	1	FURNISHED WITH PANEL	FURNISHED WITH PANEL
35 & BP	TPL 70-250A	2	FURNISHED WITH PANEL	FURNISHED WITH PANEL
35 & BQ	TPL 300-600A	2	FURNISHED WITH PANEL	FURNISHED WITH PANEL
36	CARTRIDGE TYPE, WP-92461 (3-60A)	19	GMT 1/2 AMP	N/A

TABLE Y

RECOMMENDED AC FITTINGS

CABLE TYPE	FITTING 1/2" CABLE	FITTING 3/4" CABLE
CONDUIT	8130(T&B)	8131(T&B)
ARMORED	3132(T&B)	-
FLEXIBLE	2251(T&B)	-

TABLE 2

FUSE ORDERING INFORMATION

74 TYPE (1.25-20 AMP)

TYPE	CAPACITY (AMPS)	ORDERING CODE
74A	1.25	102630290
74B	3	102630308
74C	5	102630316
74D	10	102630324
74E	15	102630332
74F	20	102630340
74G	2	103064952
74H	4	103264669
74J	7.5	103228425

KS-19780 (2-30 AMP)

LIST	CAPACITY (AMPS)	ORDERING CODE
1	5	997919402
2	10	997964697
3	15	997601000
4	20	997601471
5	25	997964531
6	30	400704698*
7	8	400682597
8	12	400848602
9	3	400682605
10	2	401939152

* PKG. OF 5

BARREL TYPE, WP-92461 (1-30 AMP)

LIST	CAPACITY (AMPS)	ORDERING CODE
1	1	406616102
2	3	406616110
3	6	406616128
4	10	406616136
5	15	406616144
6	20	406616151
7	25	406616169
8	30	406616177

BARREL TYPE, WP-92461 (35-60 AMP)

LIST	CAPACITY (AMPS)	ORDERING CODE
9	35	406616185
10	40	406616193
11	45	406616201
12	50	406616219
13	60	406616227

BLADE TYPE, WP-92461 (70-100 AMP)

LIST	CAPACITY (AMPS)	ORDERING CODE
14	70	406616235
15	80	406616243
16	90	406616250
17	100	406616268

CARTRIDGE TYPE, WP-92461 (3-60 AMP)

LIST	CAPACITY (AMPS)	ORDERING CODE
100	3	406700567
101	5	406700583
102	6	406700591
103	10	406700609
104	15	406700617
105	20	406700625
106	25	406700633
107	30	406700641
108	40	406700658
109	50	406700674
110	60	406700682

ALARM FUSE

TYPE	ORDERING CODE
70G, 1/2 AMP	100203389
GMT, 1/2 AMP	401231501

DESIGNATION PIN

TYPE	ORDERING CODE
KS-14174, L7	401922109

TABLE ZD

OPTIONAL EQUIP. FOR X.25/TL1 CP2 (NOTE 85)

COMCODE	DESCRIPTION	UPGRADES FOR VERSION
847074507	48V PAD KIT	------
847074515	24V PAD KIT	------
847074531	DIGITAL SERVICE UNIT KIT	------
847074549	SHELF KIT (GA 3-93)	------
847101565	ECS CP2 SOFTWARE KIT	MC80041AB-A4B L1:1 OR LATER

TABLE 2L:THERMAL COMPENSATION (SLOPE/STEP)
LOW VOLTAGE DISCONNECT/RECONNECT BOARD (BMD1)
SW500 REFERENCE

THERMAL COMPENSATION VOLTAGE LEVELS

CONDITIONS		216A STATUS	PLANT VOLTAGE				
COMPENSATION ENABLE	MARGIN LEVEL	COMPENSATION	TEMPERATURE IN DEGREES C				
SW500.2	SW500.4		0-25	25-53	53-75	75+	FROM >75 TO <65
1	0	ENABLED	V FLT +72MV/C	V FLT -72MV/C	V FLT -2.0 VDC	V FLT -6.0 VDC	V FLT -2.0 VDC
1	1	ENABLED	NO CHANGE	V FLT -72MV/C	V FLT -2.0 VDC	V FLT -6.0 VDC	V FLT -2.0 VDC
0 *	1 *	DISABLED	NO CHANGE				
0	0	DISABLED	NO CHANGE				

LOW VOLTAGE DISCONNECT LEVELS

SW500.1	SW500.3	DISCONNECT/RECONNECT VOLTAGE LEVELS				
1 *	1 *	-42.5 VDC				
0	0	-40.5 VDC				

NOTE 1: "V FLT" REPRESENTS UNCOMPENSATED PLANT FLOAT VOLTAGE
NOTE 2: NOTICE "+" OR "-" DETERMINES WHICH DIRECTION THE VOLTAGE COMPENSATES
NOTE 3: "*" REPRESENTS DEFAULT FACTORY SETTINGS (SW500 = 1,0,1,1)
NOTE 4: 0=OPEN, 1=CLOSED

LINEAGE 2000 ECS BATTERY PLANT

MATRIX EBOM VERSION PLANT J85500G2 28			SHEET	ISSUE	DWG SIZE
LUCENT TECHNOLOGIES	DJ	J85500G-2	A9	30	B

THIS PDI D.A.'S LISTS 1, 2, 15, & 16.
PDI: 01ESDJ0094 CL: ME

	GAK SMA	02/19/2001	30

SHA1, UPDATED SHEET INDEX. SHA2, E-NOTE 95, CHG'D SHALL TO ""MUST"", ADDED: SEE NOTE 69, ITEM #2 FOR EXAMPLE ORDER"". SHB3, ZN-F8 ITEM 129 WAS: ""(LIST KA)"". SHB5, CHG'D ITEM 250, WAS: 801829540, NOW: 802106740. SHC12, ROTATED RETURN BUS BAR 846737039 180 DEGREES. SHD2: CHG'D ITEM 250 WAS: 801829540 NOW: 802106740.
PDI:97ESDJ1226 CL:ME

RLS	LLJ GME	10-09-97	23

SHA1: UPDATED SHEET INDEX, NOTE 103 REF ADDED FOR LIST 11. SH A2: NOTES 23,74,& 95 WERE MOD AND NOTE 103 WAS ADDED. SH A4: TABLE L WAS ADDED. SH B4: ZONE F5, TEXT WAS ADDED. SH B8: ZONE D1, TEXT WAS ADDED. SH B13, ZONE K2, TEXT WAS ADDED.
PDI:98ESDJ0053

AEM	LLJ GAS	01-23-98	24

SH A1: ADDED 105 REF TO LINE 10. ADDED 104 REF TO LINES 12&13. SH A2: MOD NOTE 76, ADDED NOTE 104. SH A3: ADDED NOTE 105, LIST K5 & LIST K6. SH D2: ADDED ITEMS 291,292 & 293.
PDI: 98ESDJ0875

	LLJ GAS	09-14-98	25

UPDATED SHEET INDEX AND ISS. BLOCK. ADDED NOTE 106,107. REWORDED NOTE 68,69,71,80, 84 & 87. UPDATE TABLE AG TO CURRENT. ADDED TABLE B.""DA" LISTS 4,5,7,8,9,K4,K10 & K12 UPDATED DLT TABLE. UPDATED TABLE T. ADDED ""SEE NOTE 80"" TO LIST AA THRU AX. SHD1-2: DLT ITEMS 76,80,81, 82,83,84,85,86,103 & 104. ADDED ITEM 105 (408061638). SHC1&C11: REPLACED ITEM 104 WITH ITEM 105.
PDI: 99ESDJ0308 CL: ME

	MCN GAS	05-03-99	26

SHA2: ADDED NOTE 36. D-SHTS: ADDED SHIPPED WITH SYMBOL TO ITEM 15, DELETED ITEM 200, REMOVED LIST K1 FROM ITEM 116.
PDI: 99ESDJ0226 CL: ME

	GAK GAS	09/28/1999	27

REVISED NOTE 80. ADDED NOTE 94. REMOVED 847366796 FROM TABLE T. BOM: ADDED LIST 18, QTY=1, TO ITEM 141. REMOVED LIST 18, QYT = 1, FROM ITEM 155. REMOVED DLT FROM ITEM 229. ADDED LISTS 11 & 18, QTY = 6 TO ITEM 229.
PDI: 00ESDJ0068 CL: ME

	GAK GAS	01/27/2000	28

UPDATED ALL LISTS TO LA STATUS. ADDED NOTE 108. ADDED COMCODES 108887340 & 108887332 TO TABLE T. MISC CHANGES TO SHEETS B1, B8, B9, C14. LIST 36 OF TABLE AA WAS .375 FOR BOLT SIZE AND 4/0 FOR MAX WIRE.
PDI: 00ESDJ0412 CL: ME

	GAK SMA	08/08/2000	29

SH A1: ADDED NEW LISTS 12,13 UPDATED NOTE 11, SH INDEX. SH A2: ADDED NOTES 98-102. UPDATED NOTE 58, 91. SH A3: ADDED TABLE B. SH A4: UPDATED TABLE K, T. SH A5: ADDED TABLE ZL. SH B1: ADDED ITEM 10,11 IN LOC. C1. SH B2: ADDED ITEM 10,11 IN LOC.B7. ITEM 143 WAS 146. SH B3: TOOK OUT FIG. R. ITEM 143 WAS 146. SH B5: ADDED ""OR LVD/FUSE THERMAL COMPENSATION BOARD" IN LOC. B4. SH B7: ADDED NOTE 4. UPDATED FEEDER CABLE REQUIREMENT FOR DIFFERENT CONFIGURATION SH C2: ADDED LVD/FUSE THERMAL COMPENSATION BOARD WIRING FIG. ADDED ""OR LVD/ FUSE/THERMAL COMPENSATION BOARD"" IN LOC. K2. SH C7: ADDED NOTE 4. UPDATED FEEDER CABLE REQUIREMENT FOR DIFFERENT CONFIGURATION SH D1: ADDED ITEM 10,11,15. SH F2: ADDED A NEW FIG.20A. SH F4: ADDED A NOTE IN LOC. A1.
PDI 96ESDJ0285

JCZ	JCZ MAJ	4-26-96	17

SH A1: ADDED LIST 15-18 UPDATED SH INDEX. SHA2: UPDATED NOTES 25,53, 55,56. ADDED NOTES 96-97. SH A3: ADDED ""ECS"" TO TABLE AD SH A5: ADDED ""ECS"" TO TABLE R. UPDATED TABLE U SH B6: ADDED L-5 RECT SHELF. SH D: ADDED ITEM 8,9,13,19. 130, 138-141, ADDED LIST 15-18 TO STOCK LIST ADDED SH B9-B13, F6
PDI96ESDJ0327

BS	MCS	05-17-96	18

SHTS B1,B2,B3,B5,B7,B9,B10, B12,B13,C6,C14 & F4,RMV'D AT&T LOGO & UPDATED WITH NEW "LUCENT"" LOGO. SHTS A1 THRU A5,B4,B8,C3,C4,C5,C7, C8,C9,C10,C13,D1 & D2,F1,F3, F5 & G1, UPDATED TO CURRENT FORMAT & ISSUE NUMBER. SHT F4, RT SIDE VIEW ITEM 272 WAS: ITEM 273. SHA5 ISSUE NOTE 17, ""SHC7: ADDED NOTE 4"", SHOULD BE ""SHC6: ADDED NOTE 4"". SHA1: UPDATED SHT INDEX. SHA2: NOTES 98-100 WERE MODIFIED. SHD1: ITEM 15 IS NOW A SS ITEM.
PDI: 97ESDJ0504 CL: ME

RLS	LLJ GME	04-14-97	19

SHEET A4: TABLE K WAS ADDED

PDI: 97ESDJ0688

LLJ	LLJ GME	05-14-97	20

SH B7: NOTE 4 WAS MOD. J85500G2 LISTS REPLACED H285-226 LISTS. SH C6: NOTE 4 WAS MOD.
PDI: 97ESDJ0882

LLJ	LLJ GME	06-19-97	21

SHA1, UPDATED SHEET INDEX. SHC2, ZN-J7, ADDED: PLASTIC COVER NOTE. SHD1: RMV'D. GROUPS 15,16 FROM ITEMS 106-108 & 197.
PDI: 97ESDJ1009 CL: ME

RLS	KAL GME	07-31-97	22

ADDED LIST ES TO TBL A, CHGD MANUF NTS 12,13,14,16 CHGD MANUF NT 18 CHGD ENG NTS 53,55 ADDED ENG NT 93, UPDATED TBL AA, L20, 5-100A BRKR, MAX WIRE WAS 8 GA. ADDED TBL DLT ADDED SHTS B7 & B8 UPDATED SHTS B2, C2, C10 C12, F2, F3 ADDED SL ITEMS 161,162,202 ADDED ITEM 76, DLT ITEMS 77 146,157-160,163-165,190 CHGD SL ITM 123 QTY WAS 1 CHGD SL ITM 126 QTY WAS 2 CHGD SL ITM 220 QTY WAS 9 CHGD SL ITM 222 QTY WAS 6 CHGD SL ITM 225 QTY WAS 12 CHGD SL ITM 233 QTY WAS 72,3 PDT VER 2.118
PDI: 95ESDJ0220 CL ME

	GAS HHB	1-17-95	14

UPDATED NT 67. ADDED NT 15. CHGD SL ITM 229 RMVD L36. UPDATED SHT C9. ADDED: DLT FOR IT 124,225. ADDED LIST B TO ITEMS 123, 144,145,166-169,191,218,219, 222,223,252,257. ADDED: IT 221, 131 & 290. REPLACED: FOR SHB2 & B3 IT 124 W/IT131. 225 W/IT221.
PDI95ESDJ0575 CL ME

NBB	GAS HHB	09/20/95	15

SH A1: TABLE A ADDED NOTE 95 TO LIST 20, 30-36. UPDATED NOTE 8. TABLE D AND NOTE 16 RECT SHELF WAS J85702B-1. SH A2: ADDED NOTE 95 NOTES 20 AND 25 RECT SHELF WAS J85702B-1 SH A3: TABLE A ADDED NEW LIST K20,K36-K41. UPDATED TABLE DLT. SHA4: ADDED TABLE K. SHB1: ITEM 18 J85702B-2 WAS ITEM 17 J85702B-1. SHB6: CHANGED TITLE TO J85702B-2. ITEM 18 J85702B-2 WAS ITEM 17,J85702B-1 ADDED A NOTE. SHB7: NOTE 2 ADDED ""OR LIST 36"". ADDED NOTE 3. FIG.H, (2)L-37 WAS (2)L-36,(1)L-38 WAS (2)L-38. (2)L-40 WAS (1) L-39. SHC6: NOTE 2 ADDED ""OR LIST 36"". ADDED NOTE 3. FIG.H, (2)L-37 WAS (2)L-36,(1)L-38 WAS (2)L-38. (2)L-40 WAS (1) L-39. SH C10: TOOK OUT ""LIST A"" IN FOLLOWING LOCATIONS: C4, C5 C6,C7,D5,D7,E4,F5 AND F8. ADDED A NOTE. SH C13: NEW PAGE. SH D1:DELETED ITEMS 17,69,70 ADDED ITEMS 18,208-214.
PDI96ESDJ0203 CL:ME

JCZ	JCZ MAJ	4-01-96	16

SHA1: ADDED LIST 36 FUSE PANEL TO TABLE A AND NOTES 8 & 24 SHA2: ADDED LIST 36 TO NOTES 53, 69, & 74. ADDED NOTES 33, 88, 89, & 90 COMBINED INDIVIDUAL MOUNTING HARDWARE INTO KITS #1 THRU KIT #4, ADDED MAX WIRE SIZE TO TABLE AA AND CLARIFIED NOTE 72. SHA3: ADDED LIST 36 TO TABLE W AND CARTRIDGE FUSES FOR LIST 6 TO TABLE Z. REDRAWN SHB1 THRU C8 FOR CLARITY SHD1: ADDED LIST 36 ITEM 182 WAS 405889254 SHF4: ADDED FIG. 23
PDI 93ESDJ0915 CL B

DLS –	GAK – MAO	10-12-93	9

SHA1, A3, B1-C8, F4 INCR ISSUE TO 10 FOR CHANGES MADE IN PDI 93ESDJ0915
PDI 93ESDJ1031 CL MF

DLS –	GAK MAO	11-19-93	10

SHA1: ADDED LISTS A, B, AL SHA2: ADDED NOTES 91 & 92 SHA3: ADDED GRP 59 TO TBL AG ADDED AC PREWIRE TO TABLE U SHA4,D2: WERE ADDED AS SOFT- WARE WENT FROM VILYA TO IGOR SHB4: ADDED L36 FUSE PANEL SHB2: ADDED AC PREWIRE SHB4-B6,C1-C5,C7-C9,F3,F4: REDRAWN FOR CLARITY ADDED SHC10 AND F5 SHD1 : ADDED ITMS: 144,145, 157-169,190,218-220, 222,252,257
PDI 94ESDJ0091 CL ME

DLS –	GAK RAJ	05-19-94	11

SHA1: REMOVED NOTE 15 SHA2: CHG TABLE AA (L20) SHB2,C1: ADDED REF'S FOR SHC11 AND SHC12 SHC10: REMOVED 2 HOLES FROM AC BOX ADDED SHC11, C12 SHD1: ITEM 220 WAS 11 SHF5: ADDED FIGURE 29
PDI 94ESDJ0563 CL ME

DLS –	GAK RAJ	06-13-94	12

SHA1: UPDATED SHT INDEX SHA2: ADDED NT 34 NT 67B AL WAS AM SHC8: REF ITMS 230,237, NT 34 SHD1: ITM 80 WAS 846882181 ITM 81 WAS 846882199 ITM 83 WAS 847097037 ITM 84 WAS 847097045 ADDED ITM 230 ADDED L35 QTY 8 TO ITM 237 SHF5: FIG 26 REVERSED TB #'S
PDI 94ESDJ1186 CL ME

	GAK GME	10-25-94	13

CHANGED: SL: ITM 77 WAS 106397433, ITM 80 WAS 846575173, ITM 81 WAS 846575199 TBL T:FAN WAS 406256743,RECT WAS A-PU/364A, ADDED BATT 406526079 SHB1&B2:ITM 77 WAS 106397433 SHB4: FIG. 5 UPDATED SHB5: UPDATED CONTRL TO D2 SH F3: FIG. 22 UPDATED. MFG. NOTES: ADDED NOTE 31, EXPANDED NOTE 20. ENG. NOTES:ADDED 76,77,& 78. TBL. A: ADDED NOTE 77 TO L1, L2, ADDED L TO WIRING & APP. FOR L1, L2. ADDED NOTE 31 TO L10, L11. ADDED NOTE 78 LAM -LAX. ADDED NOTE 76 L31,L33, L34. SHC1: RMV REF. TO ITM 115 IN SECT C-C. SHC3: FIG. 7 ITM 234 CHNGD TO ITM 232 SHC4: FIGS. 8, 9, & 10 ITM 234 CHNGD TO ITM 232 ON SHC5: FIG. 11 UPDATED SHC6: UPDATED W/ L35 & LAJ TBL A: ADDED L35, LBP, LBQ, LBS,LBU,LBX,TBL AG, NOTE 80. ADDED SHC8. ADDED LIST KD. SL: ADDED ITEMS 275,277, 279,281,& 283. ITM 198 WAS 106648710.
PDI 92ESDJ0173 CL B

DIW –	HTD – MAO	04-15-92	4

SHA1:
ADDED NOTE 24 TO L30 - L35 MOD. DESCRP. OF LK3, ADDED NOTE 81 TO LKD, MOD. MFG. NOTES 23 & 25. SHA2: MOD. ENG. NOTES 62A & 73, ADD ENG. NOTE 81. SHB2: ADD NOTE 81 TO FIG. 3 SHC6: CHGED CONFIG. OF FIGS. E, F, G, H, J, L, & M. SHD1: ITM. 233 QTY FOR LKB WAS 40. ITM. 233 QTY FOR LKA WAS 8. ITM. 232 QTY FOR L1 WAS 4. ITM. 232 QTY FOR L2 WAS 6.
PDI 92ESDJ9106 CL ME

NB –	HTD – MAO	7-27-92	5

SH A: RMV NOTE 15 ADD NOTE 32,82,83. TBL AG GRPS WERE LISTS. SHB2: ADD FIG. B SHB3: ADD FIG. B SHC3: ADD REF. TO NOTE 32 SHC4: ADD REF. TO NOTE 32 SHC6: MOD. FIG. H, F, & J.
PDI 92ESDJ9525 CL ME

NB –	HTD – MAO	10-16-92	6

SH A:ADD LK11 & LK12, NOTES 84, 85, 86, TBL ZD. MOD TBL T. SHB1:FIG 1 846939635 WAS ED97735-70 GRP6 SHB3:FIG 3 846939635 WAS ED97735-70 GRP 6. SHC6:MOD FIGS B,C,D, F,G,H,J,K,L,&M. SHD1:ADD ITM 2,83,& 84
PDI93ESDJ0193 CL B

NB –	HTD – MAO	03-08-93	7

ADDED: LIST K4, NOTE 87

PDI93ESDJ0436 CL ME

AJS –	ASF – MAO	05-21-93	8

LINEAGE 2000 ECS BATTERY PLANT

MATRIX EBOM VERSION
PLANT J85500G2 28

LUCENT TECHNOLOGIES	DJ	J85500G-2	SHEET A10	ISSUE 30	DWG SIZE B

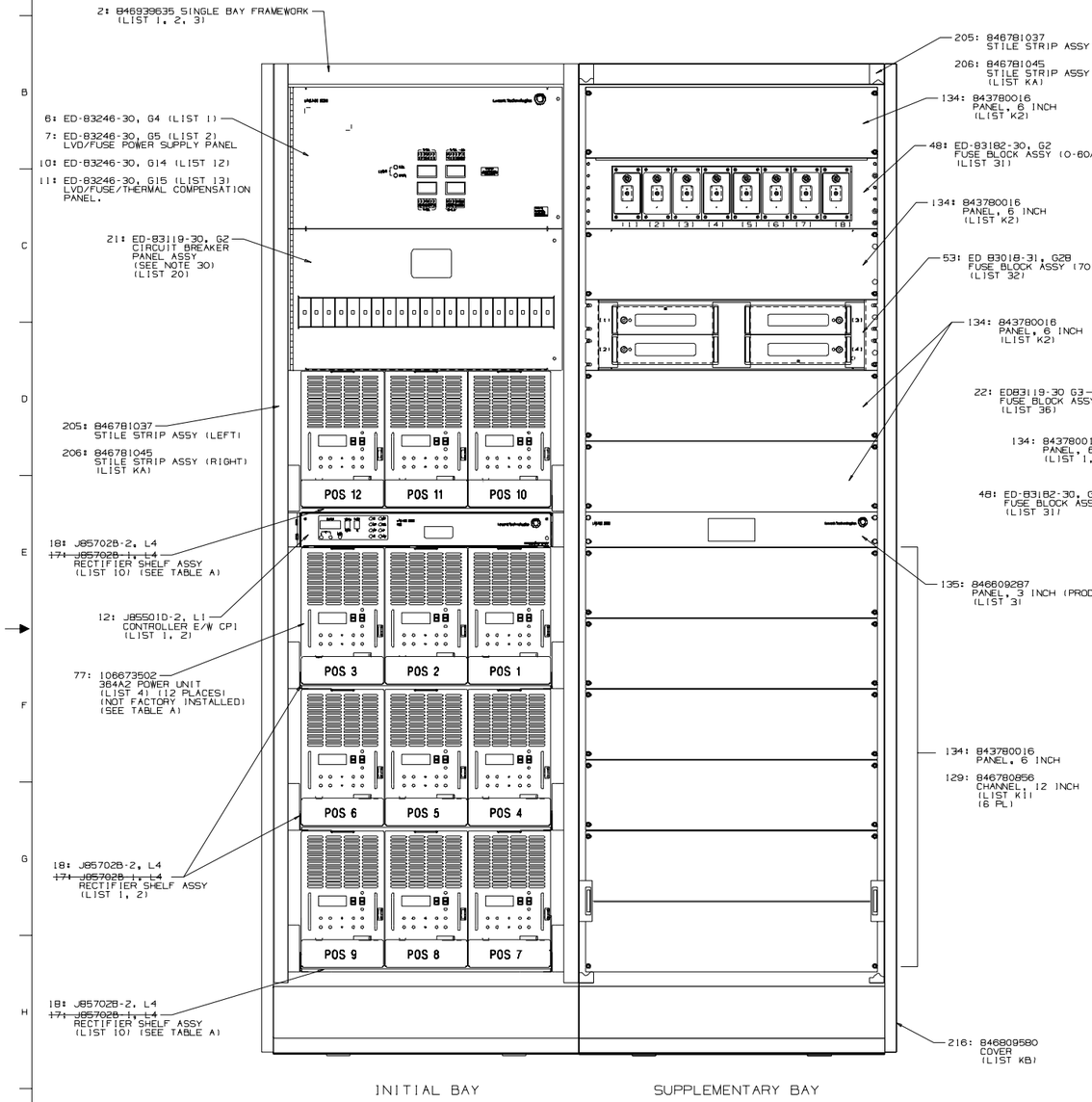

FIG. 1

LIST 1, 2, 4, 10, 20, KA, KB
AND
LIST 3, 31, 32, K1, K2, KA, KB
(ALL RECTIFIERS IN INITIAL BAY)

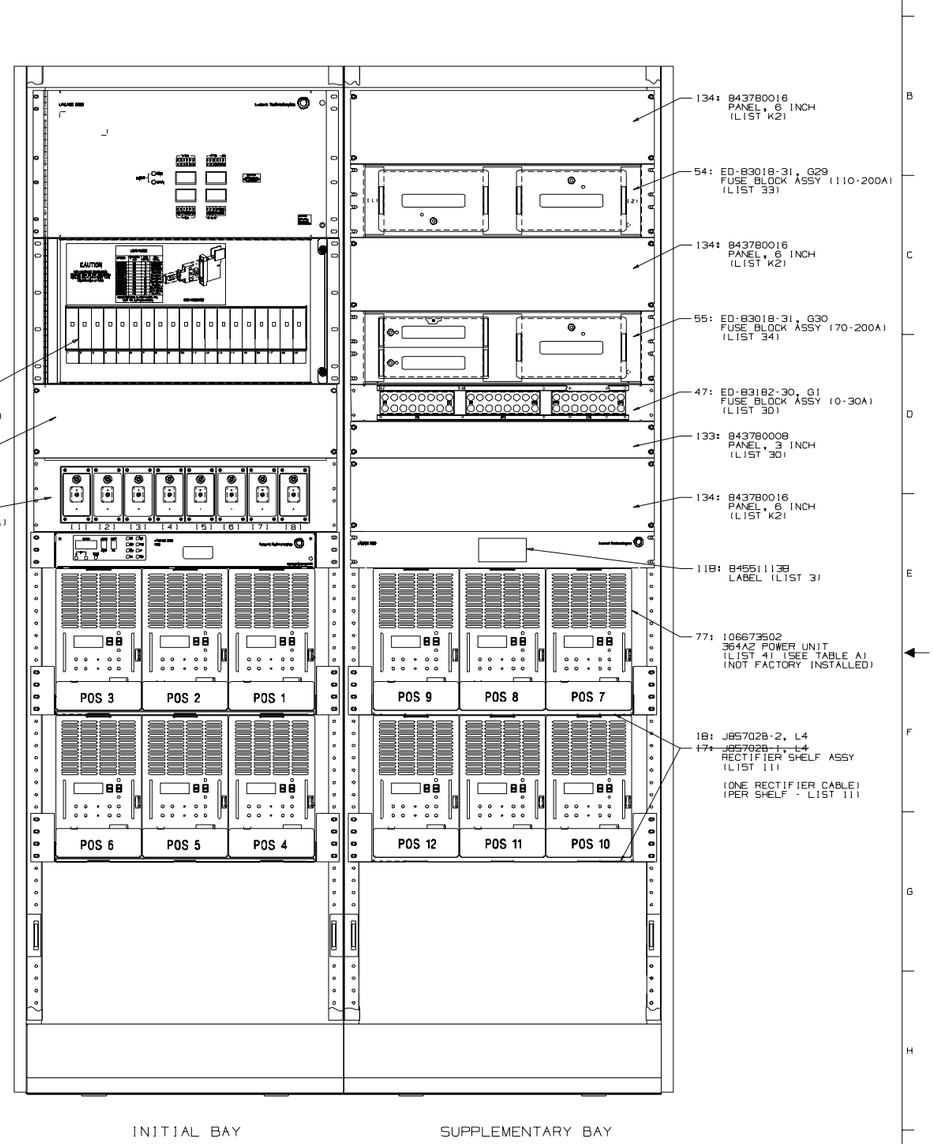

FIG. 2

LIST 1, 2, 4, 31, 36, KA, KB
AND
LIST 3, 4, 11, 30, 33, 34, K2, KA, KB
(RECTIFIERS SPLIT BETWEEN INITIAL AND SUPPLEMENTARY BAY)

TWO POSSIBLE CONFIGURATIONS J85500G-2

(12 RECTIFIERS MAX PER ECS CONTROLLER)

LINEAGE 2000 ECS BATTERY PLANT

		SHEET	ISSUE	DWG SIZE
LUCENT TECHNOLOGIES DJ	J85500G-2	B1	29	C3

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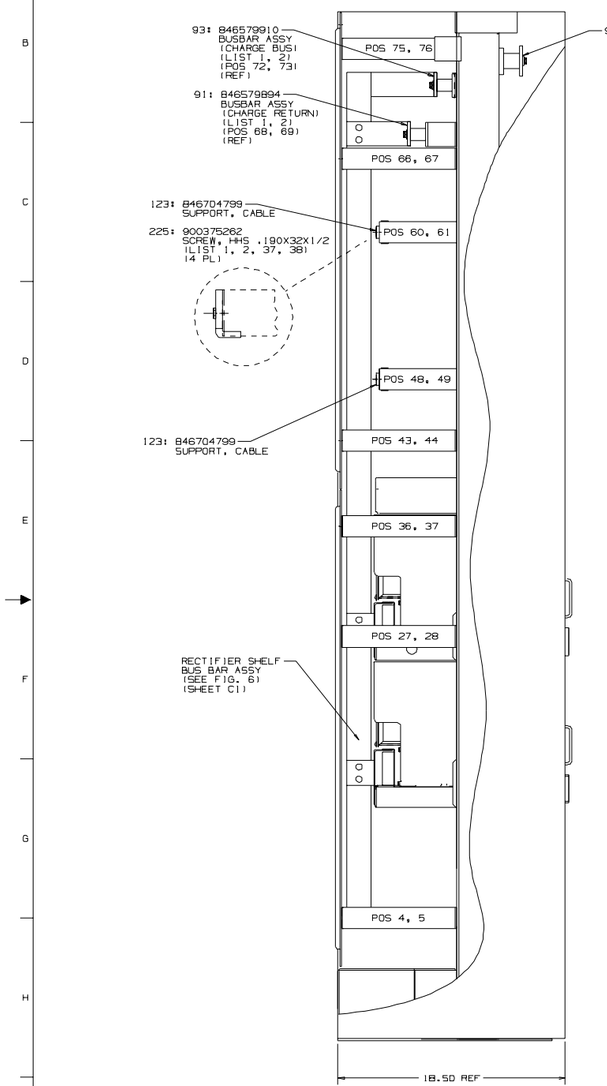

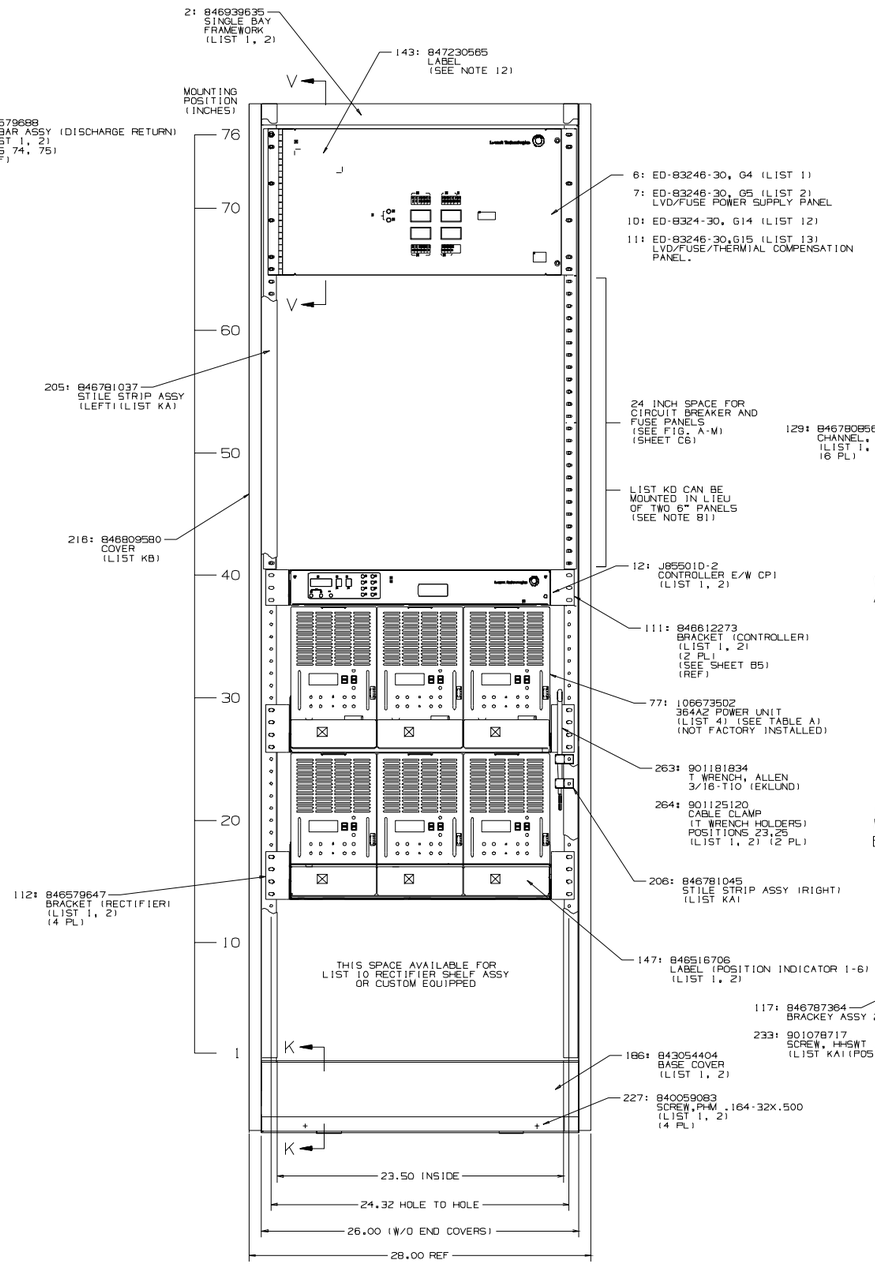

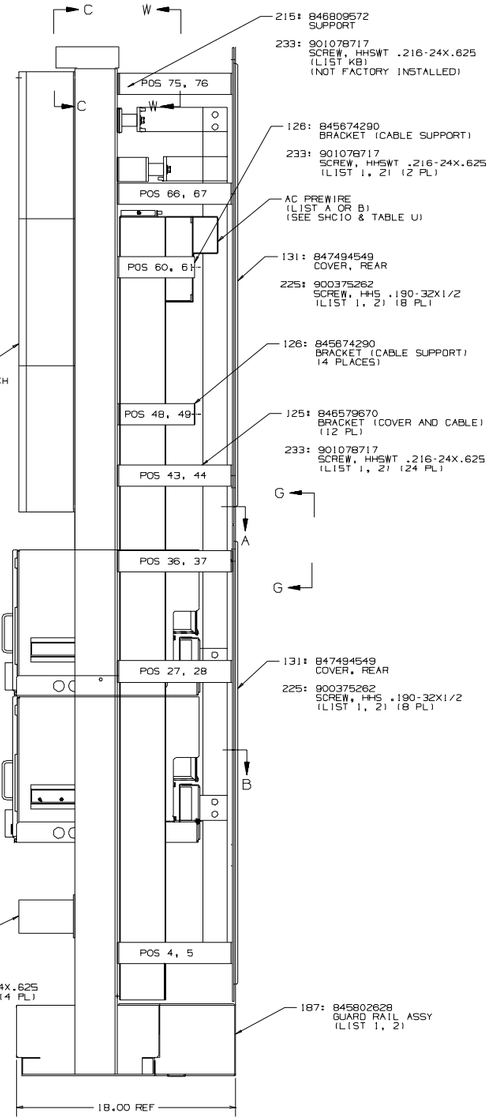

FIG. 3
(LISTS: 1, 2, 4, KA, KB, KD)
INITIAL BAY

LINEAGE 2000 ECS BATTERY PLANT

LUCENT TECHNOLOGIES	DJ	J85500G-2	SHEET B2	ISSUE 19	DWG SIZE C3

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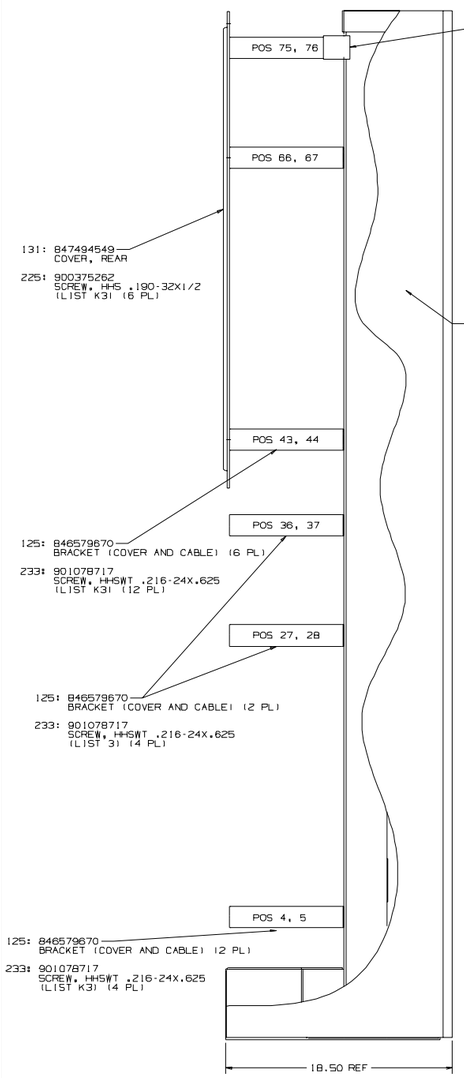
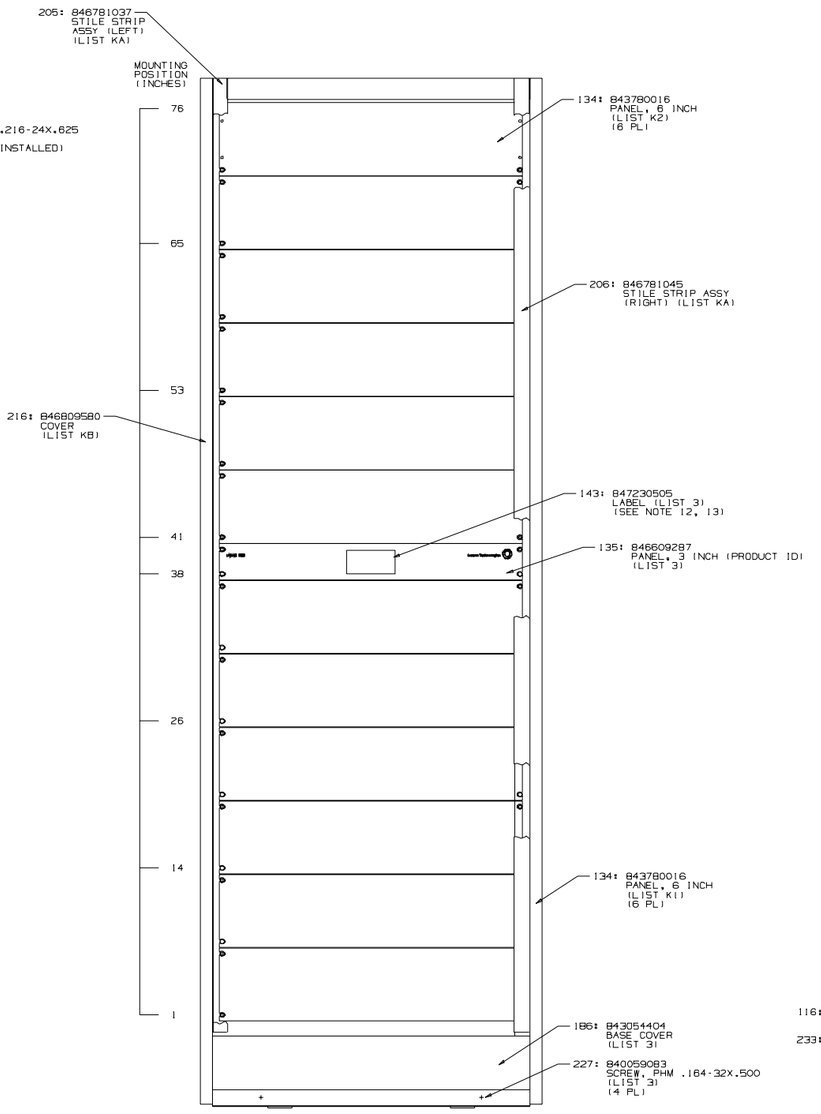
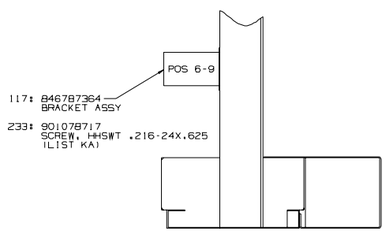


LEFT SIDE VIEW

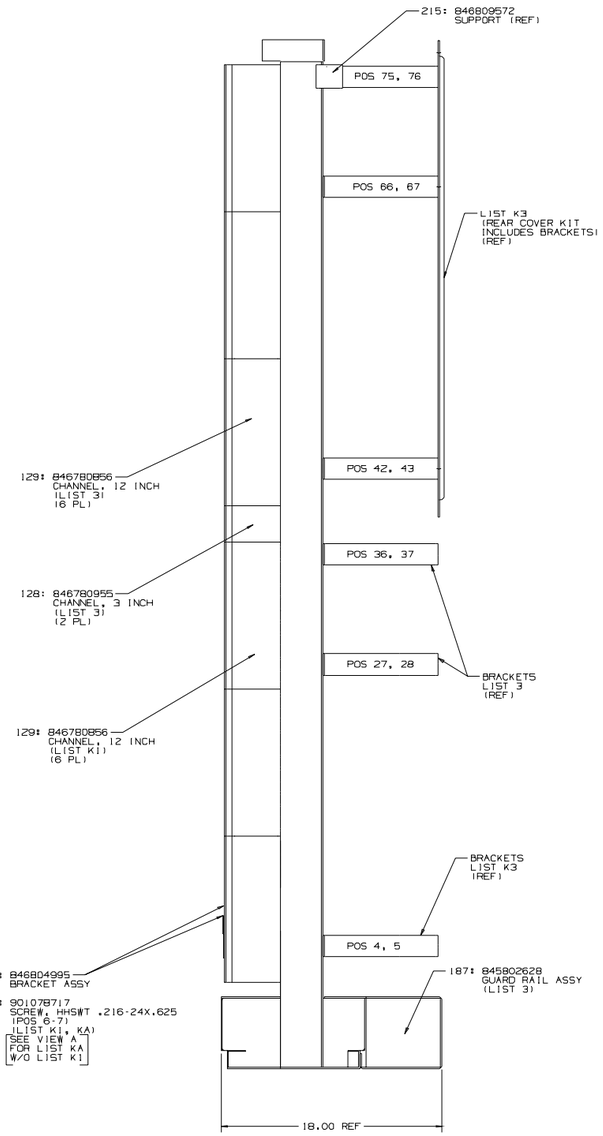


FRONT VIEW
(SEE NOTES 22, 55 AND TABLE V)

FIG. 4
(LIST 3, K1, K2, K3, KA, KB)



VIEW A
ALTERNATE STILE STRIP
BRACKET FOR LIST KA
(WHEN LIST K1 NOT SPECIFIED)



RIGHT SIDE VIEW
(END COVERS AND STILE STRIPS
REMOVED FOR CLARITY)

SUPPLEMENTARY BAY

LINEAGE 2000 ECS BATTERY PLANT

LUCENT TECHNOLOGIES	DJ	J85500G-2	SHEET B3	ISSUE 23	DWG SIZE C3

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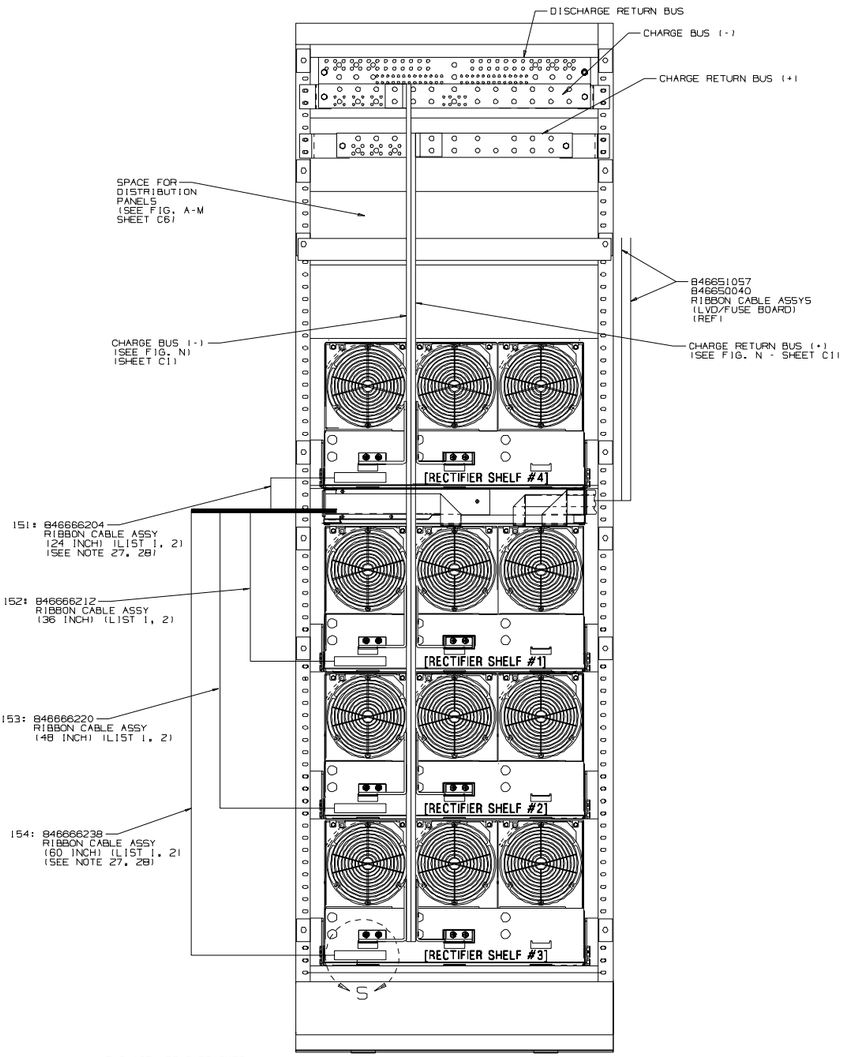
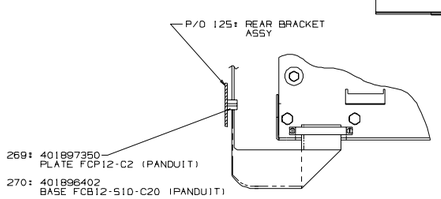
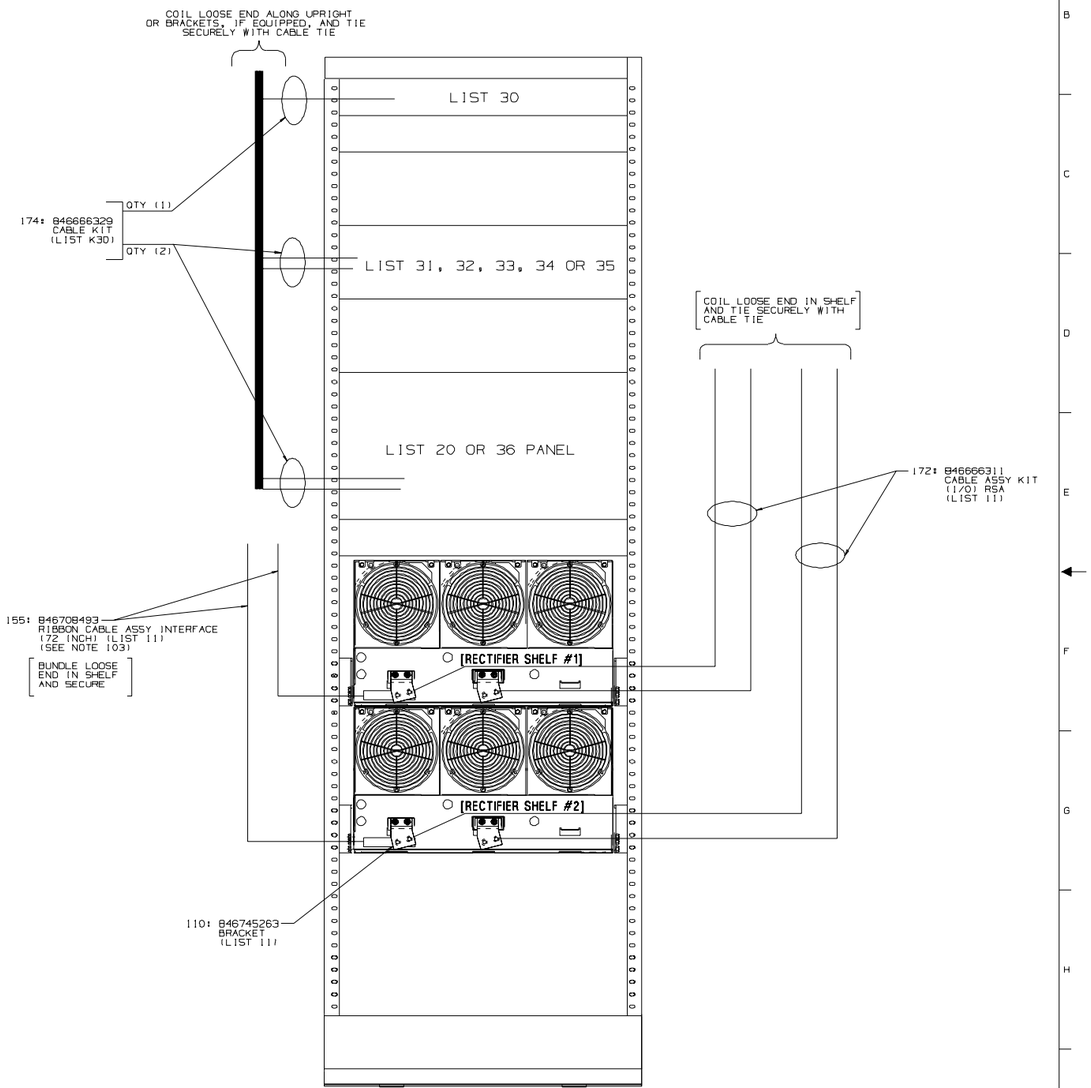


REAR VIEW
RECTIFIER OUTPUT WIRING
(INITIAL BAY)



VIEW. S
TYPICAL CABLE ROUTING
SCALE 1/1



REAR VIEW
OUTPUT WIRING
(SUPPLEMENTARY BAY)

FIG. 5
BAY WIRING

LINEAGE 2000 ECS BATTERY PLANT

			SHEET	ISSUE	DWG SIZE
LUCENT TECHNOLOGIES	DJ	J85500G-2	B4	24	C3

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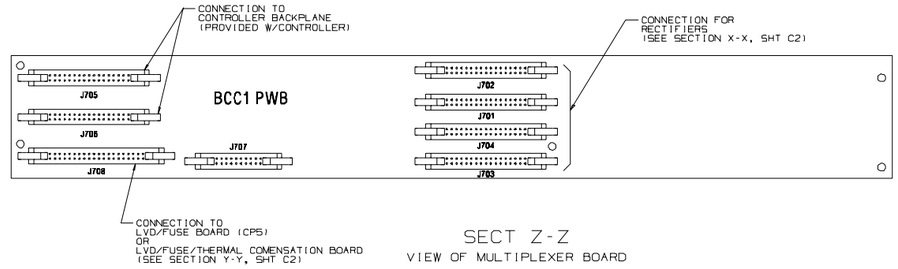
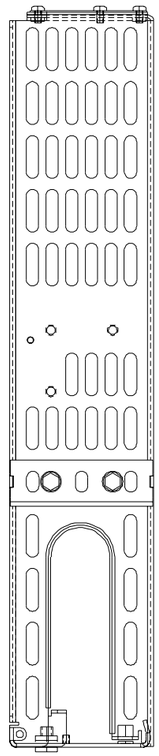
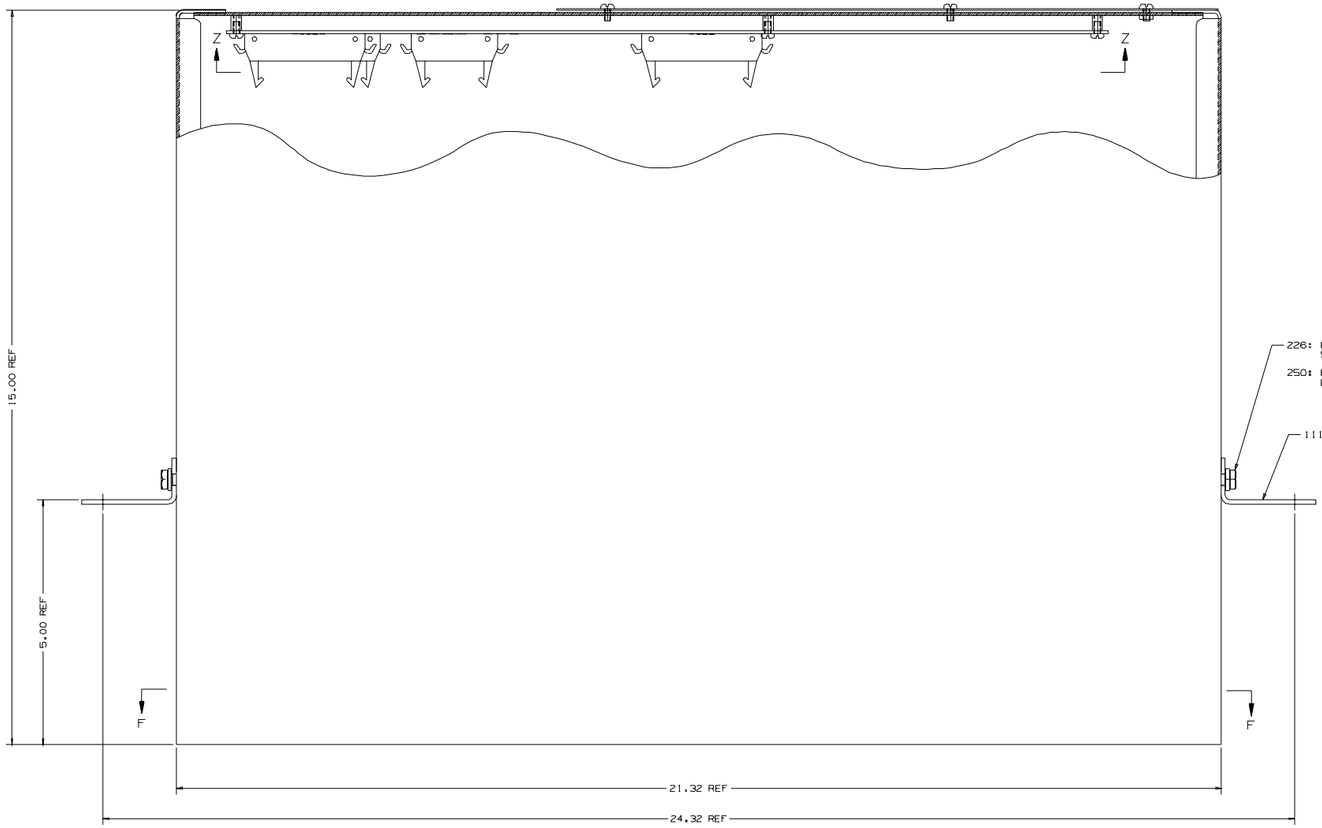


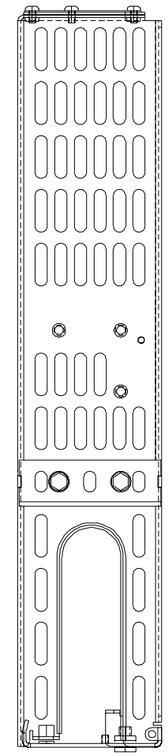
SECT Z-Z
VIEW OF MULTIPLEXER BOARD



LEFT SIDE VIEW



TOP VIEW



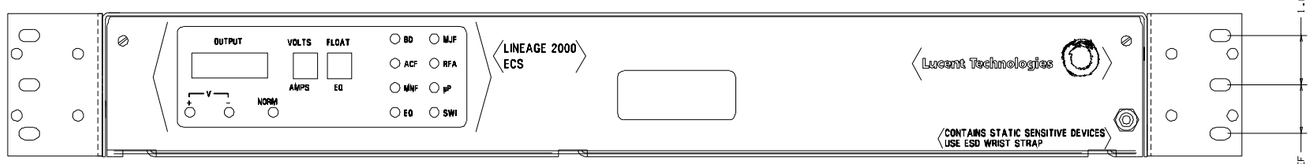
RIGHT SIDE VIEW

226: B40026827
SCREW, HHSWT .216-24X1/2

250: B02106740
LKWR,.216 HVY
(LIST 1, 2)
(4 PL)

111: 846612273
BRACKET (CONTROLLER)
(LIST 1, 2)
(2 PL)

SECT A-A
(J85501D-2, L1 CONTROLLER)



FRONT VIEW

LINEAGE 2000 ECS BATTERY PLANT

LUCENT TECHNOLOGIES	DJ	J85500G-2	SHEET B5	ISSUE 23	DWG SIZE C3

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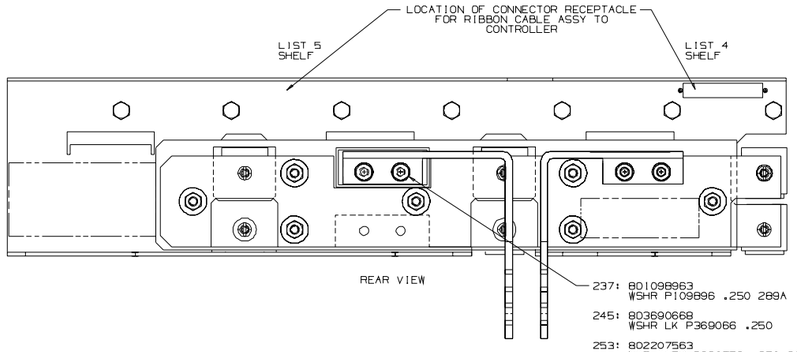
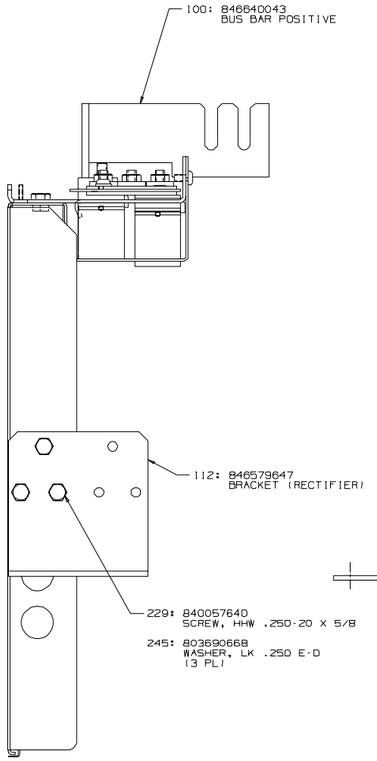
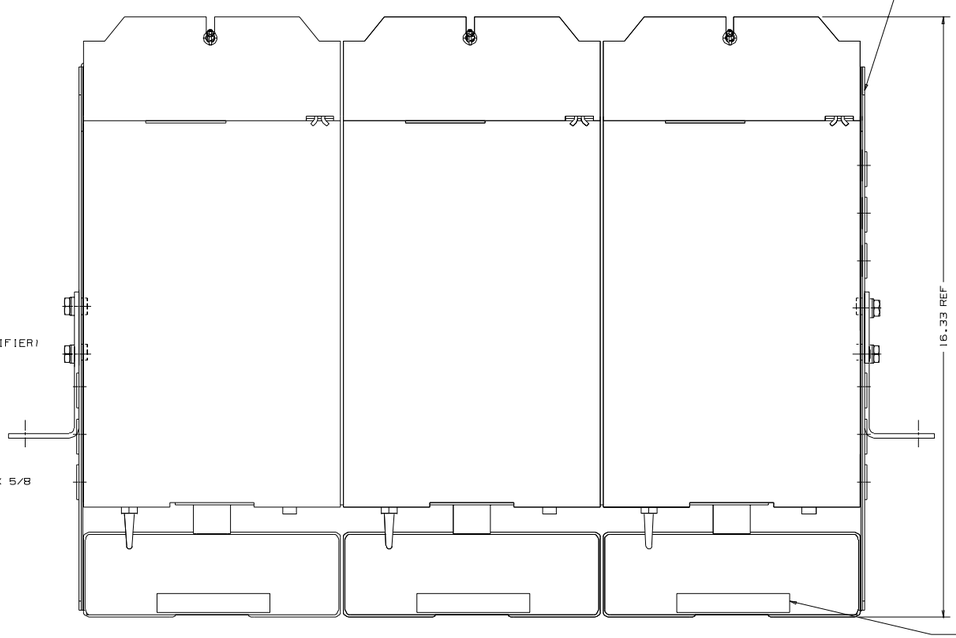
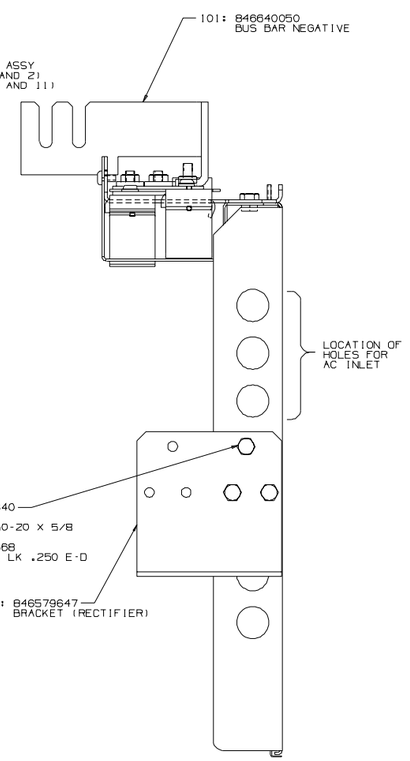
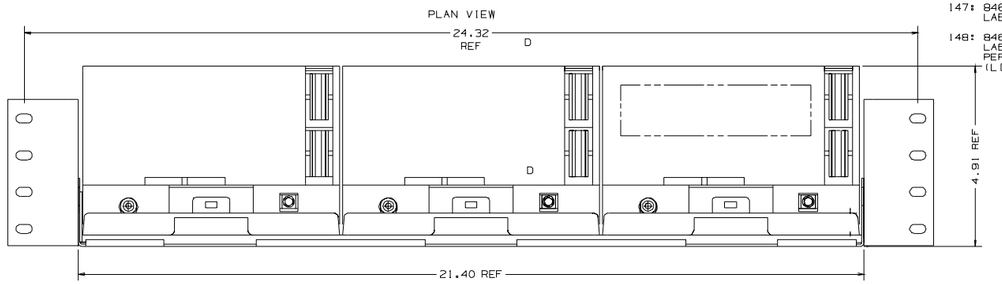
NOTE: THE PICTORIAL REPRESENTATIONS SHOWN BELOW ARE FOR REFERENCE ONLY. ITEMS CALLED OUT, HOWEVER, MUST BE OBSERVED.











SECT B-B

J85702B-2, L-4
~~J85702B-1, L-4~~ RECTIFIER SHELF ASSY
OR
J85702B-2, L-5 RECTIFIER SHELF ASSY

SCALE: 3/4

LINEAGE 2000 ECS BATTERY PLANT

LUCENT TECHNOLOGIES	DJ	J85500G-2	SHEET B6	ISSUE 18	DWG SIZE C3

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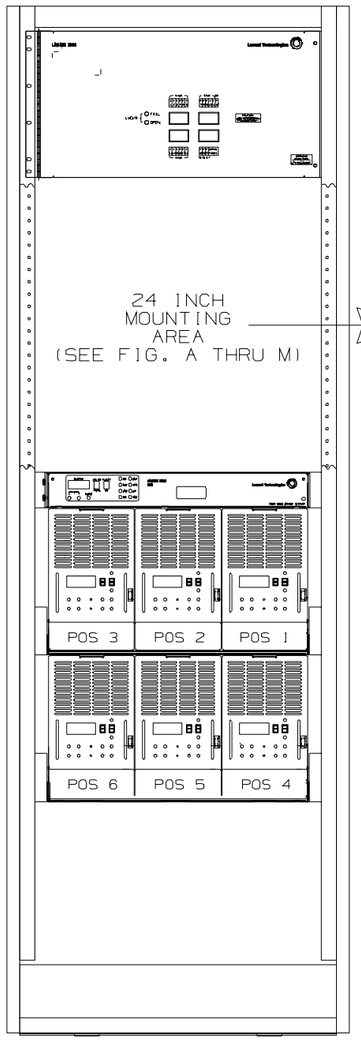
FRAME MOUNTING POSITION (FOR MANUFACTURING PERSONNEL ONLY)



(INITIAL BAY)

SEE NOTE 4

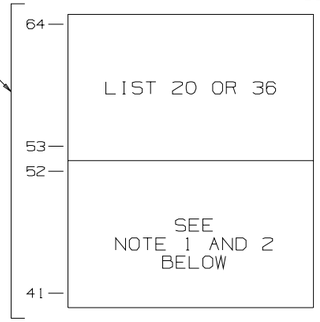


FIG. A

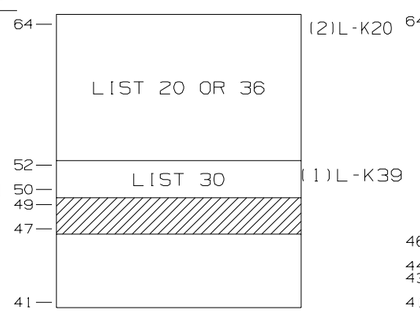


FIG. B

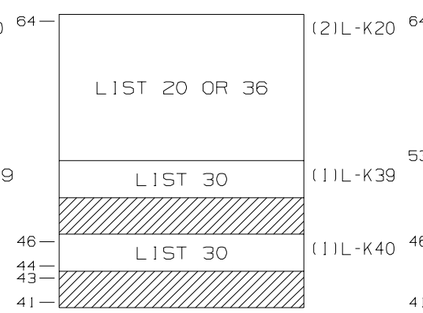


FIG. C

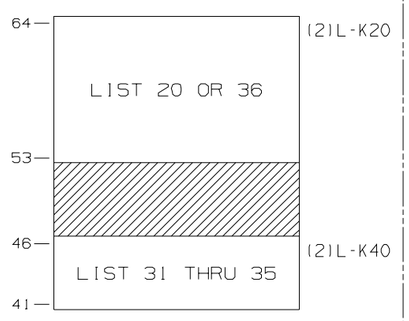


FIG. D

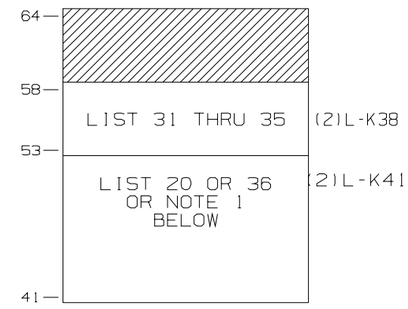


FIG. E

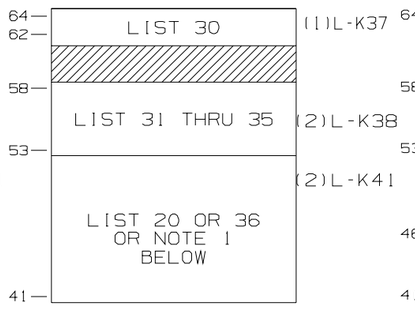


FIG. F

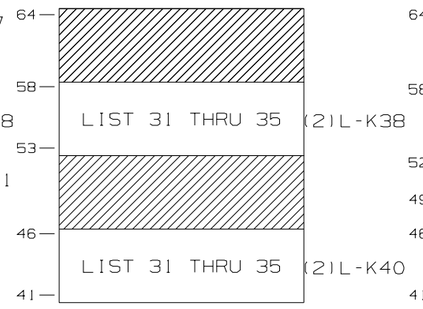


FIG. G

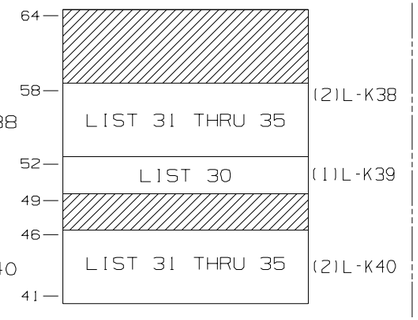


FIG. H

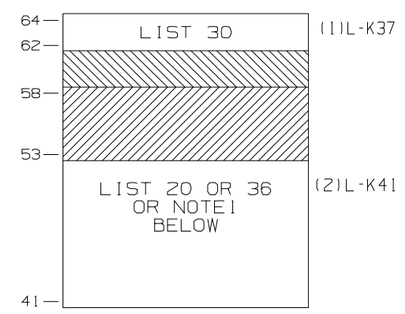


FIG. J

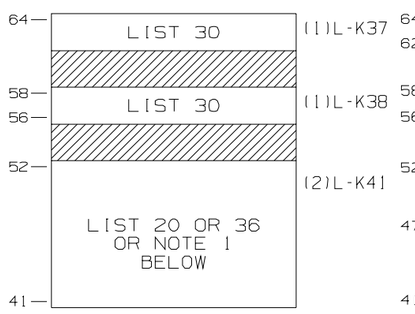


FIG. K

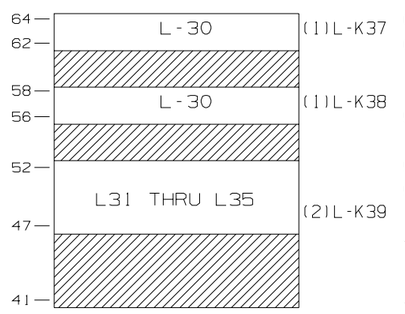


FIG. L

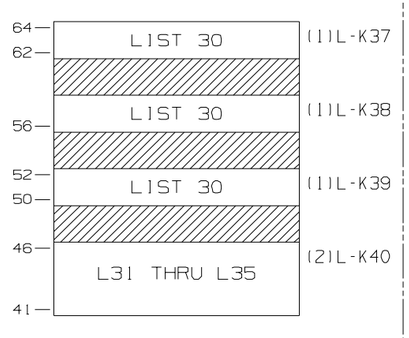


FIG. M

DESIGNATES AREA UNAVAILABLE FOR GROWTH, USED FOR FRONT ACCESS AND LOAD LEADS

INITIAL BAY DISTRIBUTION CONFIGURATIONS

NOTE 1: AVAILABLE FOR LIST 10, 4TH RECTIFIER SHELF OR FUTURE NON-X DISTRIBUTION PANELS OR EQUIPPED WITH ITEMS (SEE MANUFACTURING NOTE 7).

NOTE 2: A SECOND LIST 20 OR LIST 36 CAN BE MOUNTED, BUT ONLY KS22010 BREAKERS (LIST AA-AJ) ALLOWED. EQUIP SECOND LIST 20 WITH SMALLEST AMPERAGE BREAKERS FOR EASE OF LOAD LEAD ROUTING. (SHOP TO USE (2) H285-226, L-41 FEEDER CABLES FOR LOWER MOUNTED L-20 PANEL)

NOTE 3: SEE MANUFACTURING NOTE 8 & 9.

NOTE 4: ENGINEER SHALL ORDER APPROPRIATE CABLES FOR THE INITIAL BAY DISTRIBUTION CONFIGURATION. SEE TABLE K FOR ORDERING INFORMATION.

LINEAGE 2000 ECS BATTERY PLANT

			SHEET	ISSUE	DWG SIZE
LUCENT TECHNOLOGIES	DJ	J85500G-2	B7	21	C3

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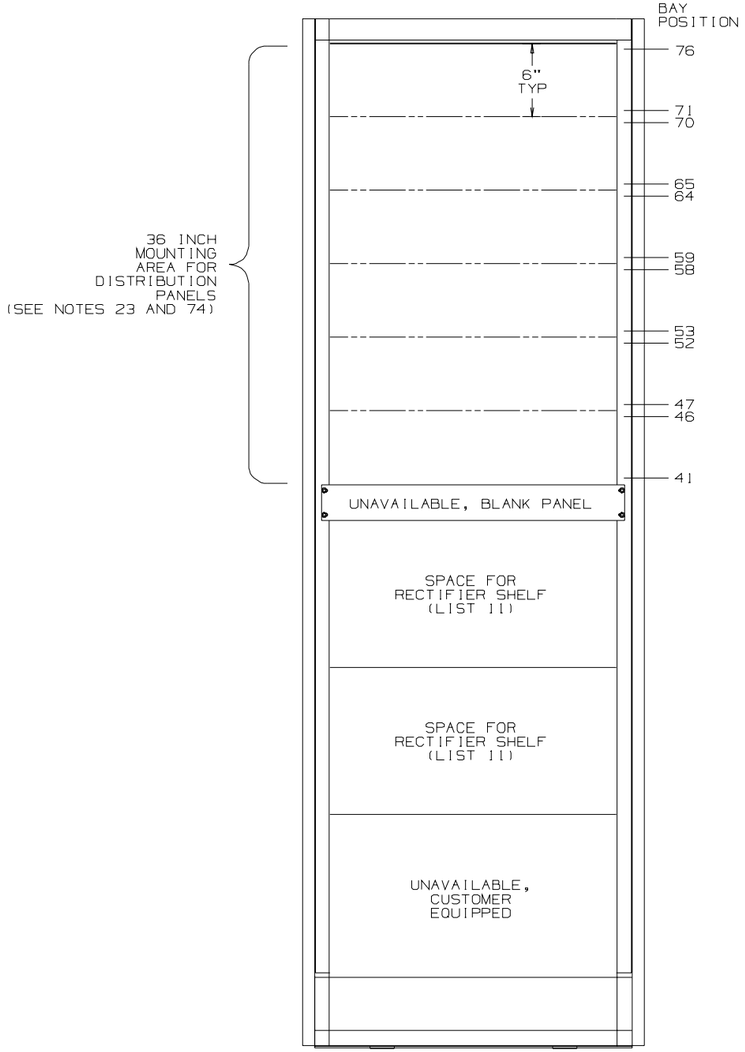

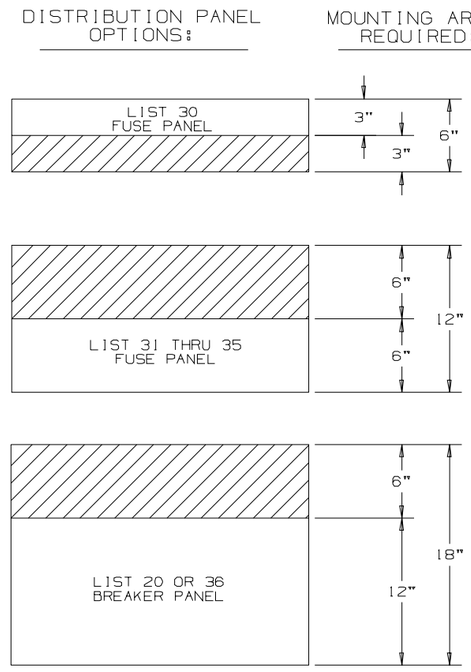

DESIGNATES AREA REQUIRED FOR LOAD LEAD ROUTING

OPTIONAL KITS FOR SUPPLEMENTARY BAY

LIST K1 - BLANK PANEL KIT - LOWER BAY

LIST K2 - BLANK PANEL KIT - UPPER BAY

LIST K3 - REAR COVER KIT - UPPER OR LOWER HALF OF BAY

LIST K4 - TWELVE INCH EXTENSION KIT

LIST K30 - DISTRIBUTION PANEL CABLE KIT - FOR UPPER HALF OF BAY

LIST KA - FRONT STILE STRIPS

LIST KB - END COVER

FIG. 12

SUPPLEMENTARY BAY ENGINEERING

LINEAGE 2000 ECS BATTERY PLANT

			SHEET	ISSUE	DWG SIZE
LUCENT TECHNOLOGIES	DJ	J85500G-2	88	29	C3

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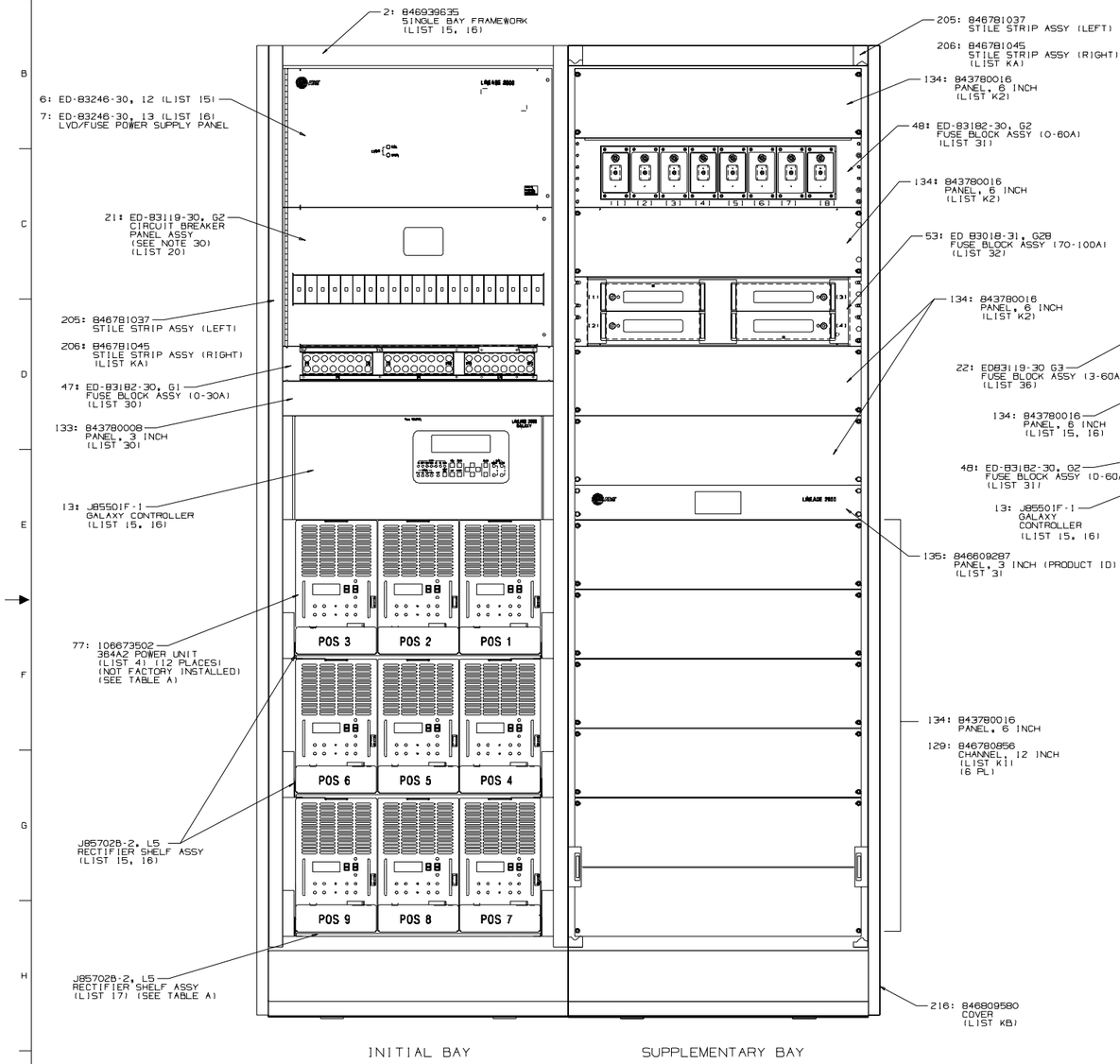

FIG. 1A

LIST 4, 15, 16, 17, KA, KB
AND
LIST 3, 31, 32, K1, K2, KA, KB
(ALL RECTIFIERS IN INITIAL BAY)

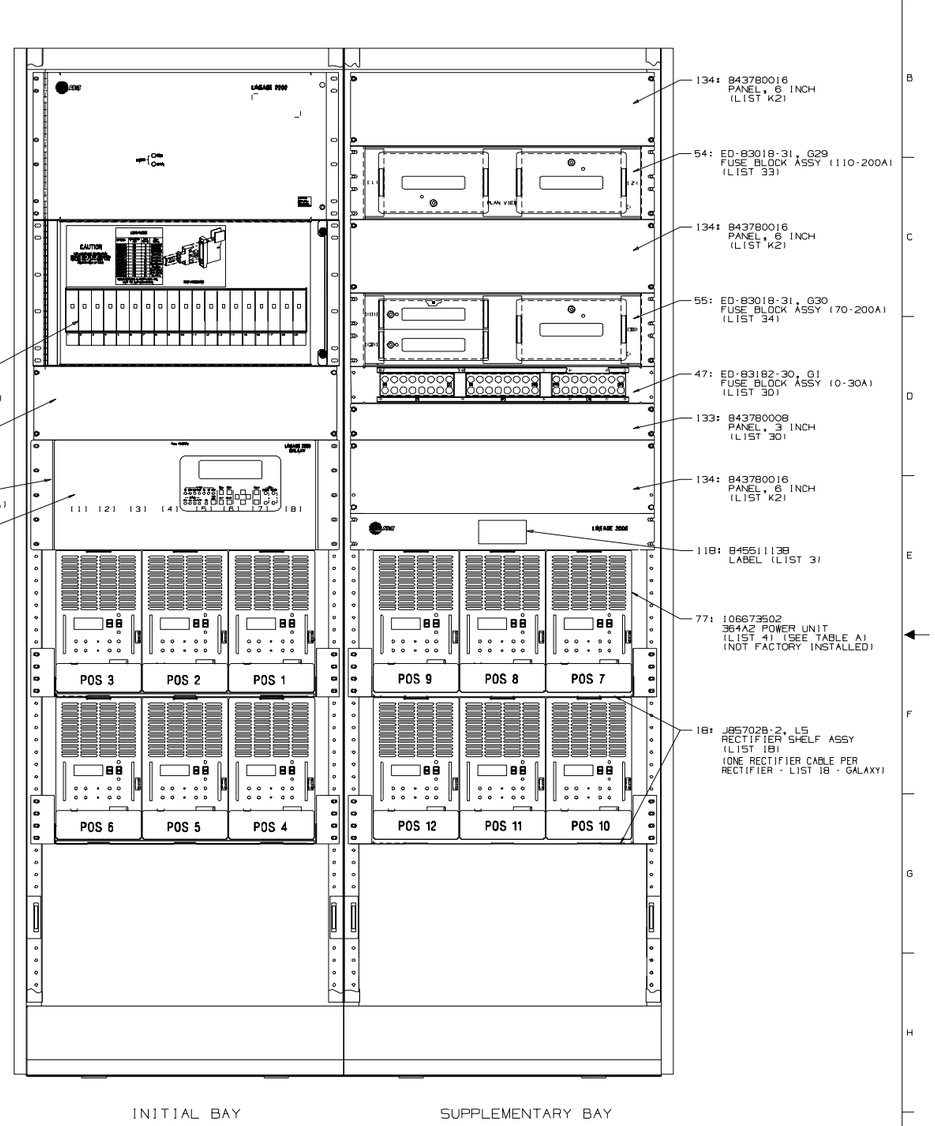

FIG. 2A

LIST 4, 15, 16, 31, 36, KA, KB
AND
LIST 3, 4, 18, 30, 33, 34, K2, KA, KB
(RECTIFIERS SPLIT BETWEEN INITIAL AND SUPPLEMENTARY BAY)

TWO POSSIBLE CONFIGURATIONS
J85500G-2

LINEAGE 2000 ECS BATTERY PLANT

			SHEET	ISSUE	DWG SIZE
LUCENT TECHNOLOGIES	DJ	J85500G-2	B9	29	C3

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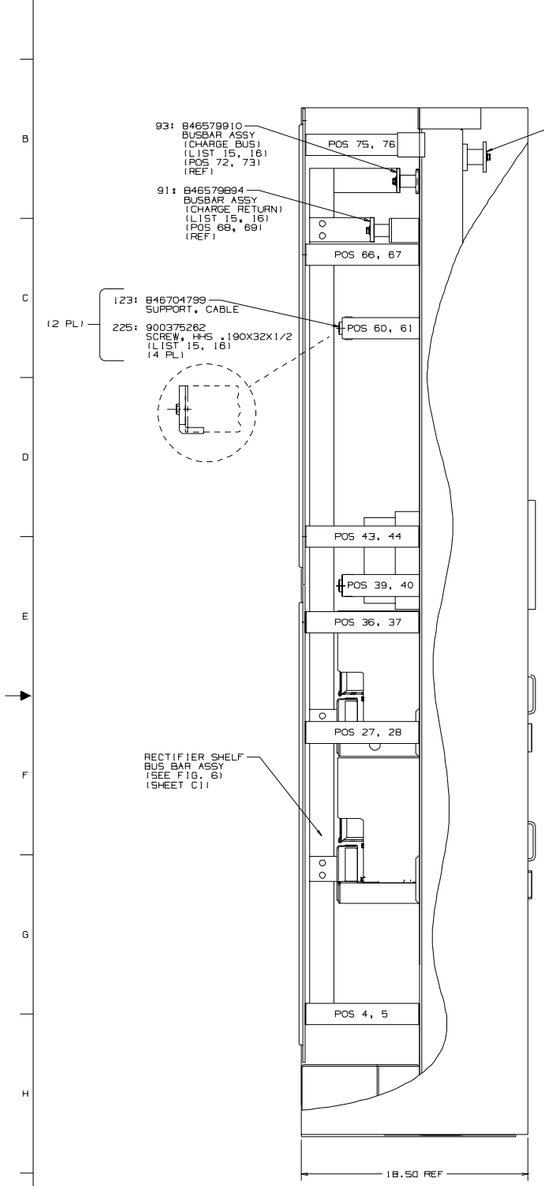


LEFT SIDE VIEW

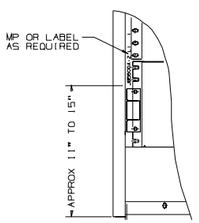
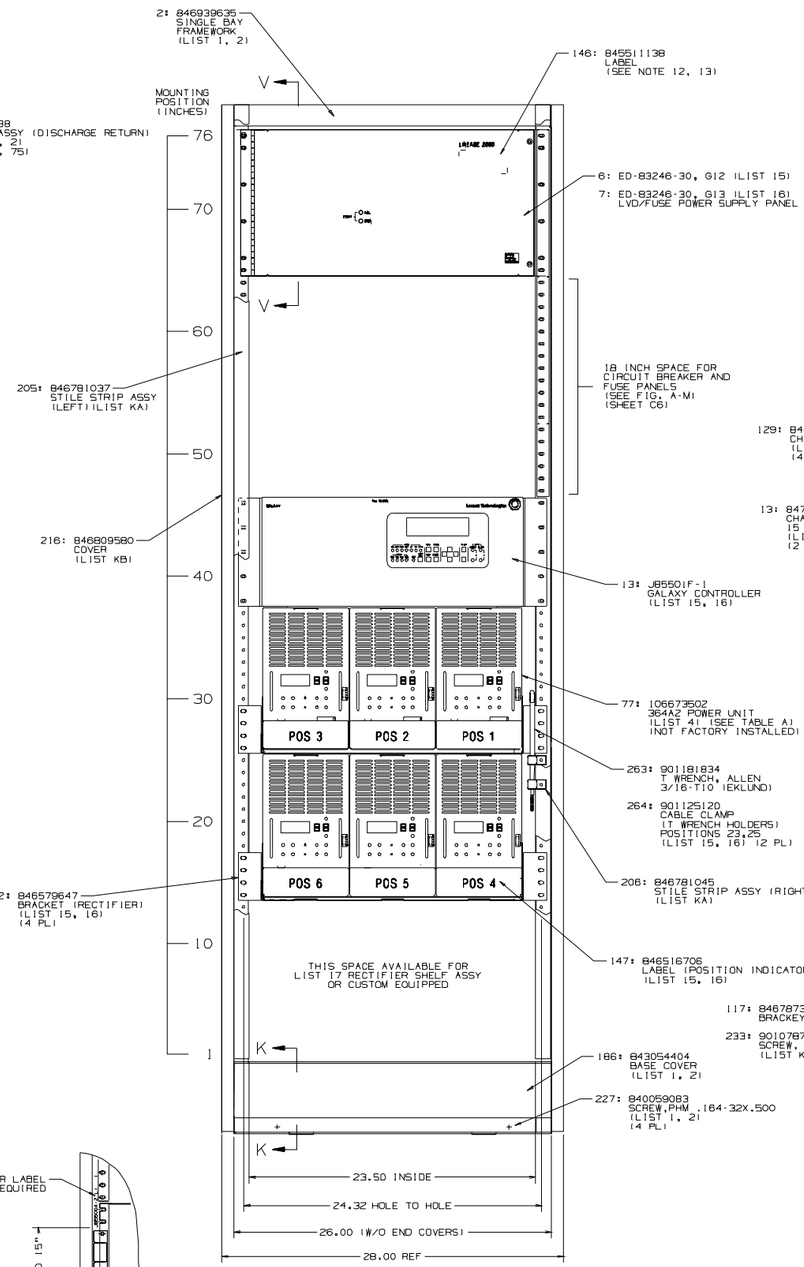
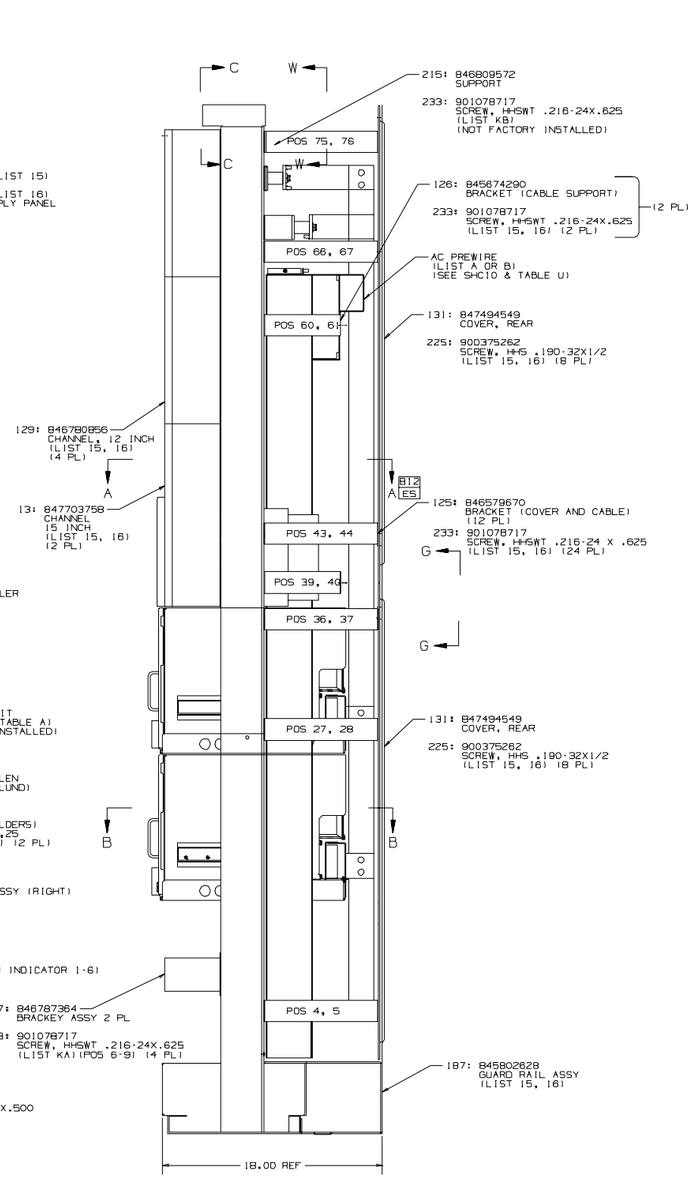


FIG. R
(TYPICAL)



FRONT VIEW

(SEE NOTE 22 AND TABLE U)



RIGHT SIDE VIEW

(END COVERS AND STILE STRIPS
REMOVED FOR CLARITY)

FIG. 3A
(LISTS: 4, 15, 16, KA, KB, KD)
INITIAL BAY

LINEAGE 2000 ECS BATTERY PLANT

LUCENT TECHNOLOGIES	DJ	J85500G-2	SHEET	ISSUE	DWG SIZE
			B10	19	C3

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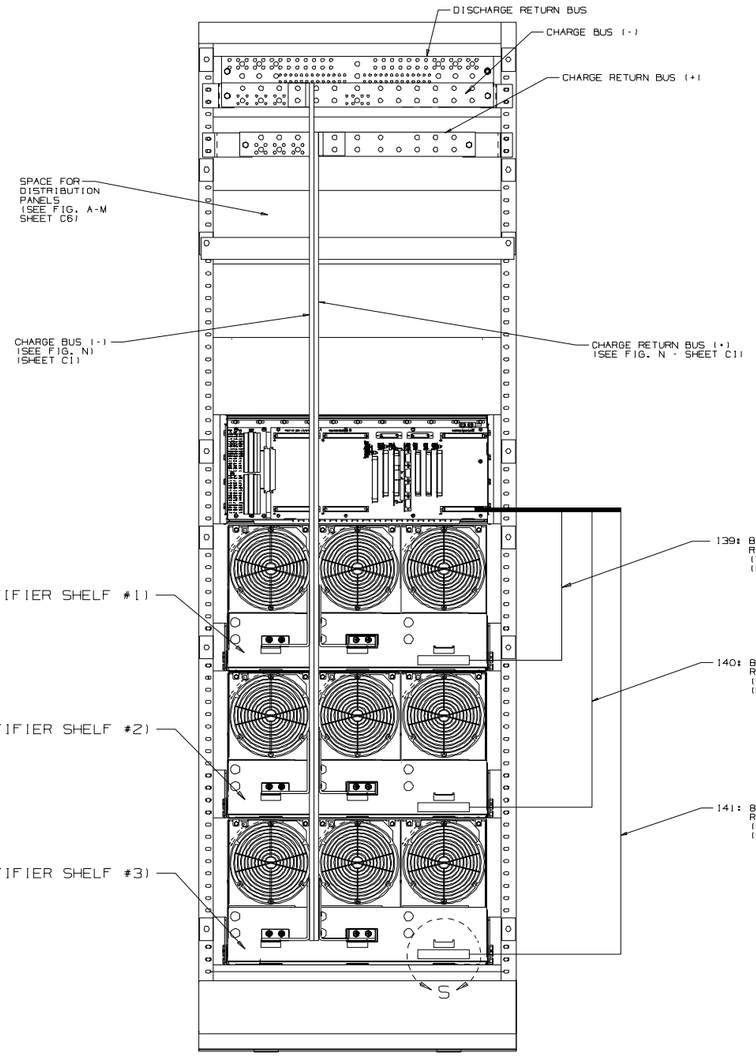
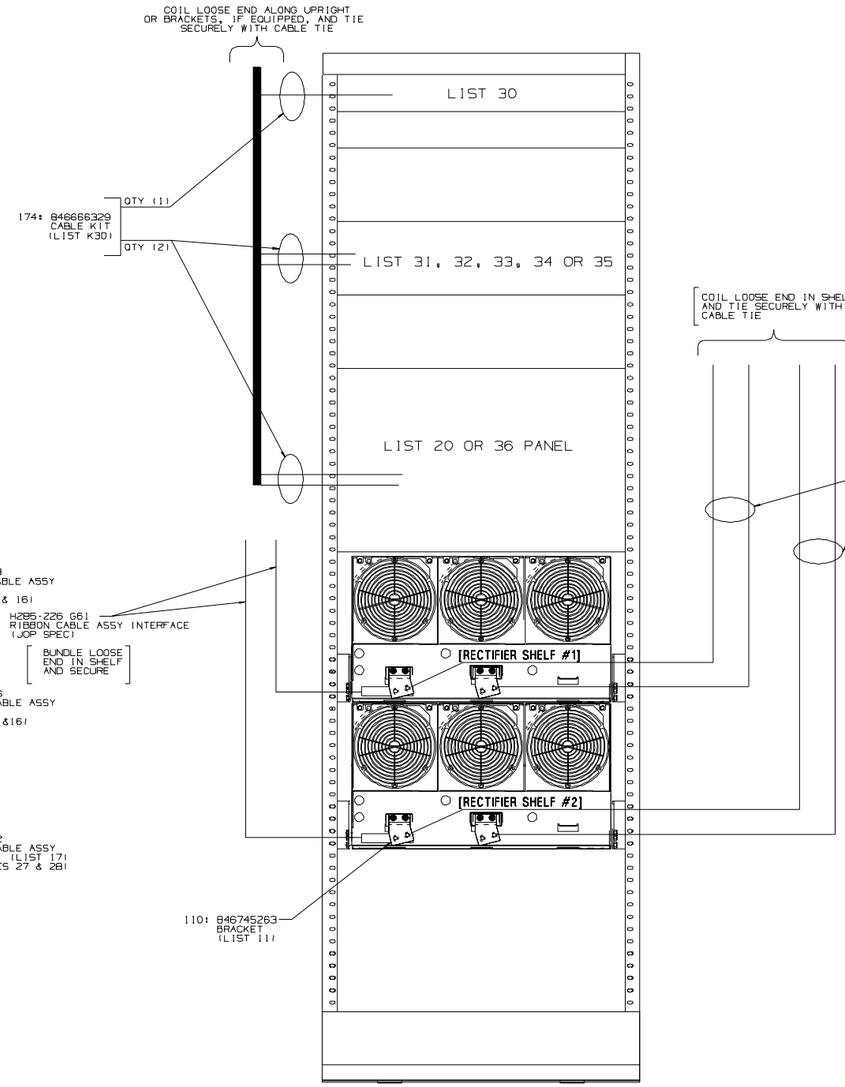
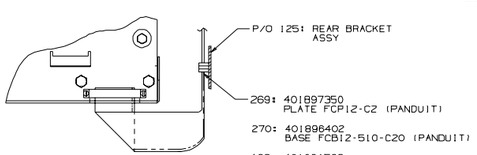


REAR VIEW
RECTIFIER OUTPUT WIRING
(INITIAL BAY)



REAR VIEW
OUTPUT WIRING
(SUPPLEMENTARY BAY)



VIEW, S
TYPICAL CABLE ROUTING
SCALE 1/1

FIG. 5A
BAY WIRING
WITH LIST 15 OR 16

LINEAGE 2000 ECS BATTERY PLANT				
		SHEET	ISSUE	DWG SIZE
LUCENT TECHNOLOGIES	DJ J85500G-2	B11	18	C3

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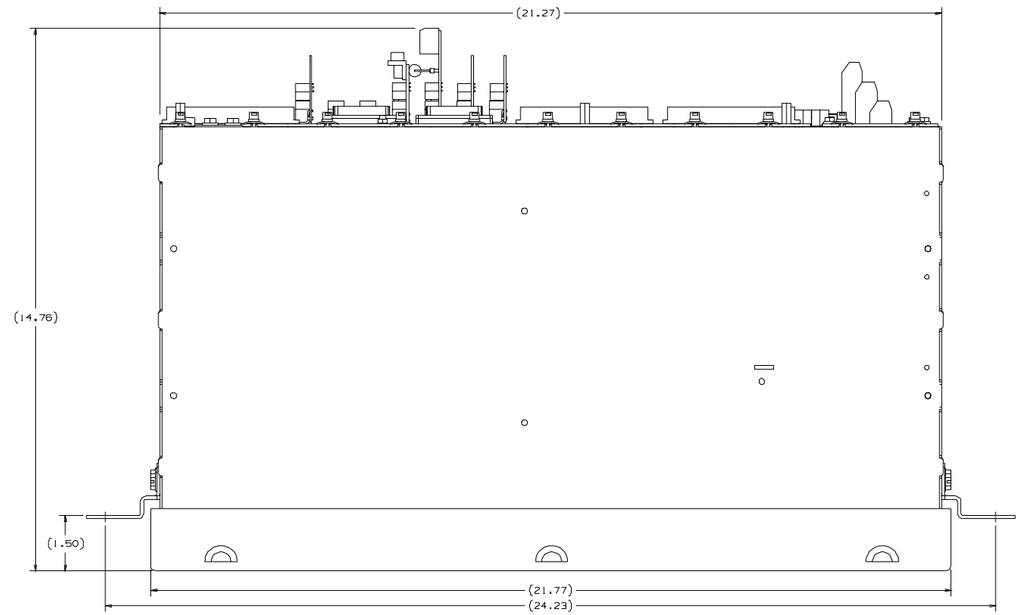
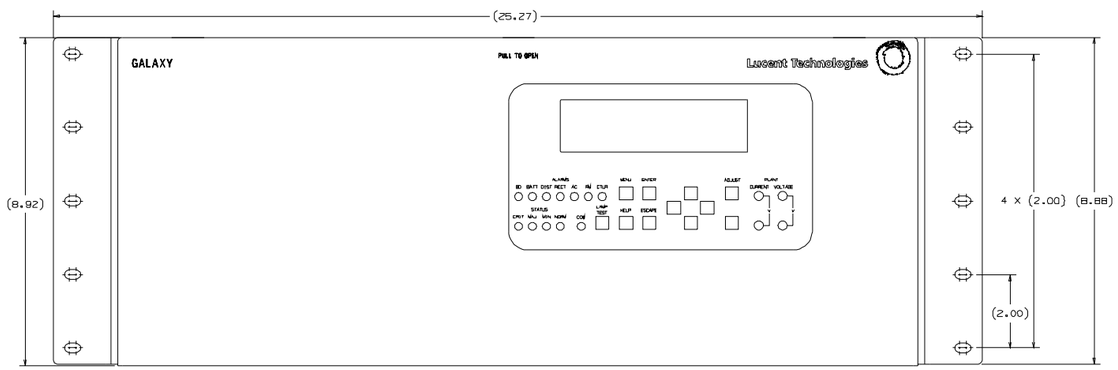
UG11 V4.1 (02-22-88)



SECT A-A [B10 D8]

SCALE: 3/4

(J85501F-1 L2 GALAXY CONTROLLER)



FRONT VIEW

LINEAGE 2000 ECS BATTERY PLANT

LUCENT TECHNOLOGIES	DJ	J85500G-2	SHEET B12	ISSUE 19	DWG SIZE C3

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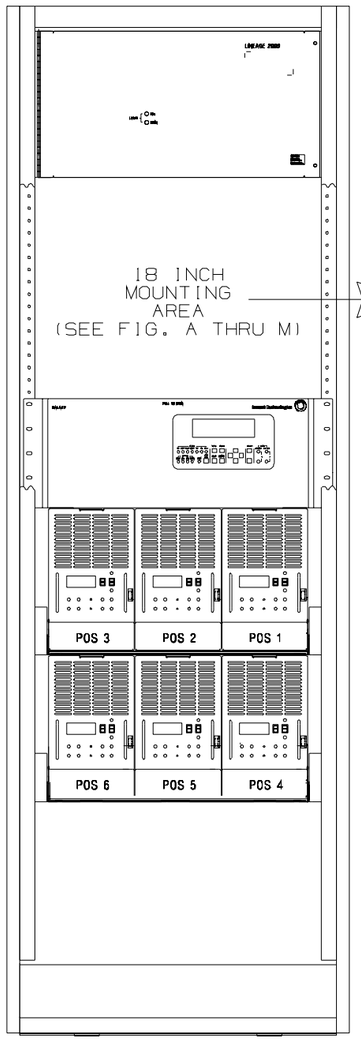
UG11 V4.1 (02-22-88)

FRAME MOUNTING POSITION (FOR MANUFACTURING PERSONNEL ONLY)



18 INCH MOUNTING AREA (SEE FIG. A THRU M)

(INITIAL BAY)

H285-226

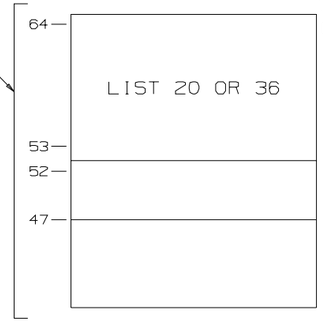


FIG. A

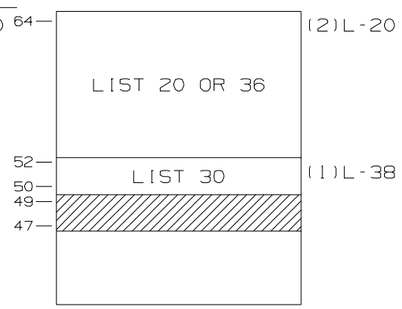


FIG. B

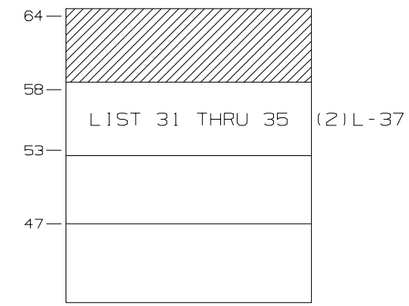


FIG. E

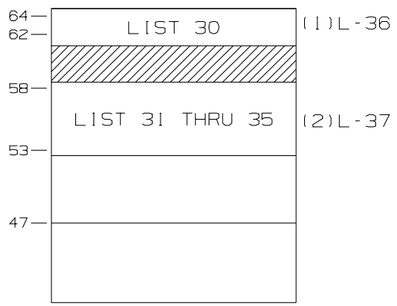


FIG. F

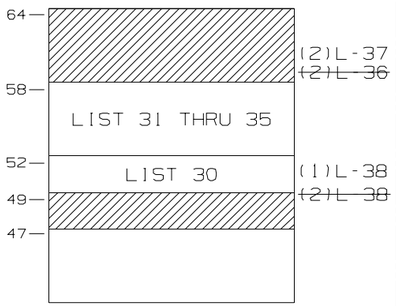


FIG. H

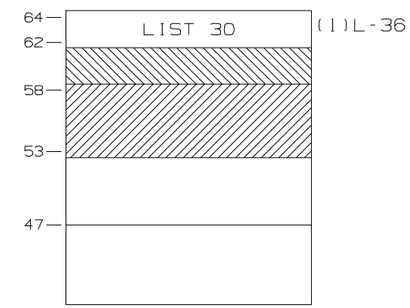


FIG. J

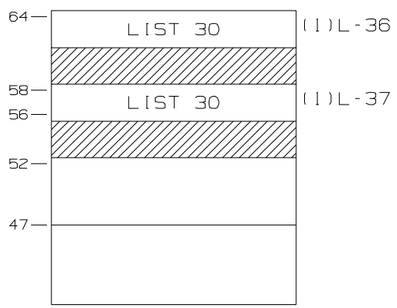


FIG. K

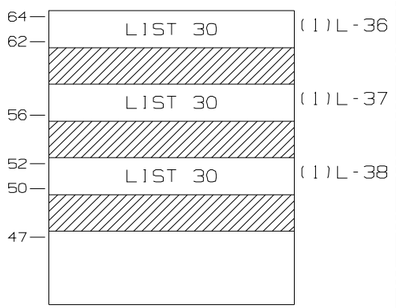


FIG. M

DESIGNATES AREA UNAVAILABLE FOR GROWTH. USED FOR FRONT ACCESS AND LOAD LEADS

INITIAL BAY DISTRIBUTION CONFIGURATIONS WITH A GALAXY CONTROLLER

NOTE: ENGINEER SHALL ORDER APPROPRIATE CABLES FOR THE INITIAL BAY DISTRIBUTION CONFIGURATION. SEE TABLE L (SHEET A4) FOR ORDERING INFORMATION.

LINEAGE 2000 ECS BATTERY PLANT

			SHEET	ISSUE	DWG SIZE
LUCENT TECHNOLOGIES	DJ	J85500G-2	B13	24	C3

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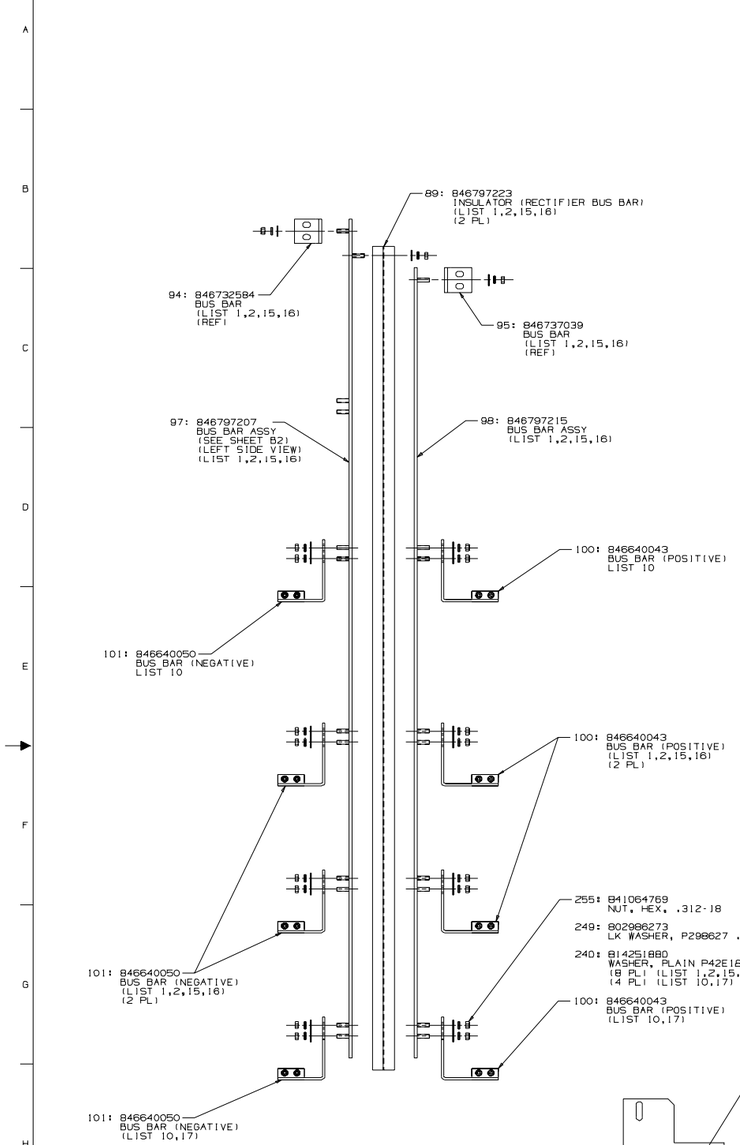
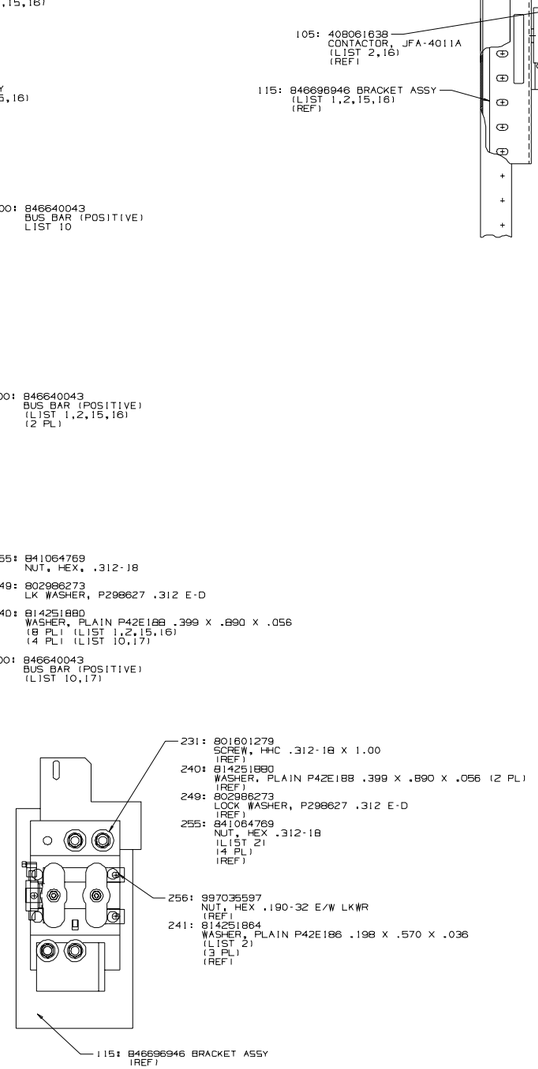
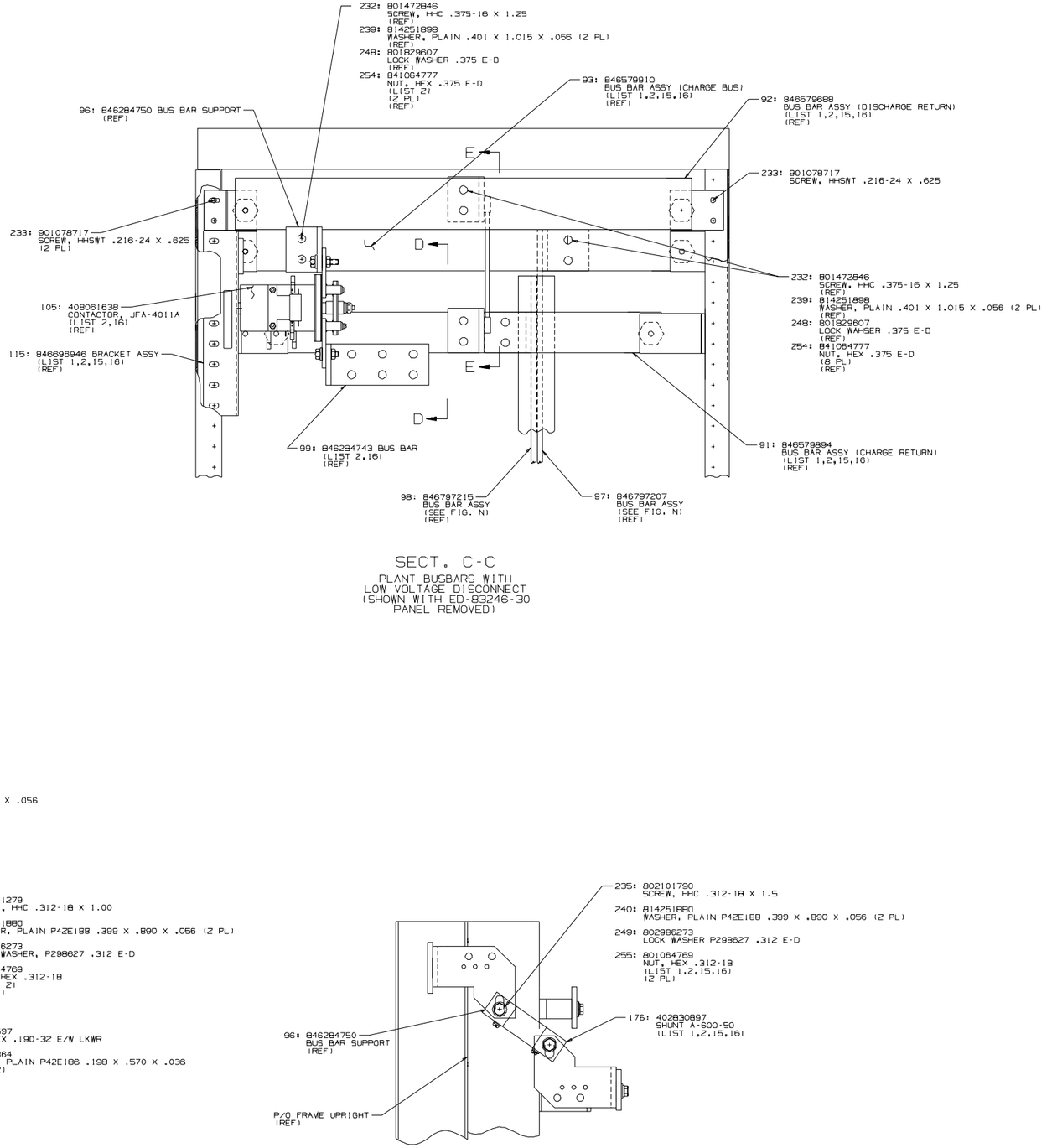


FIG. N

PLANT BUS BAR DETAIL
SCALE: 1/4



SECT. D-D



SECT. C-C

PLANT BUSBARS WITH
LOW VOLTAGE DISCONNECT
(SHOWN WITH ED-83246-30
PANEL REMOVED)

SECT. E-E

LINEAGE 2000 ECS BATTERY PLANT

LUCENT TECHNOLOGIES	DJ	J85500G-2	SHEET C1	ISSUE 26	DWG SIZE C3

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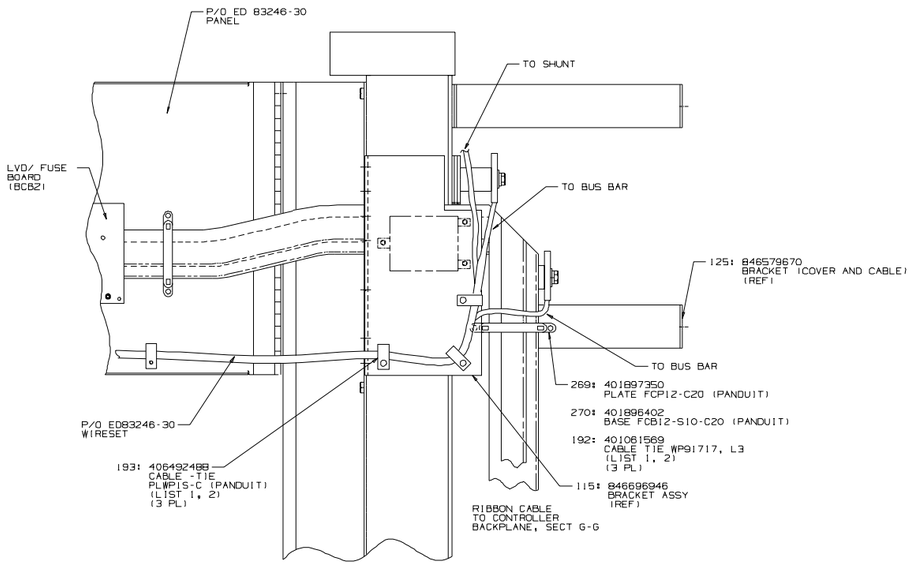
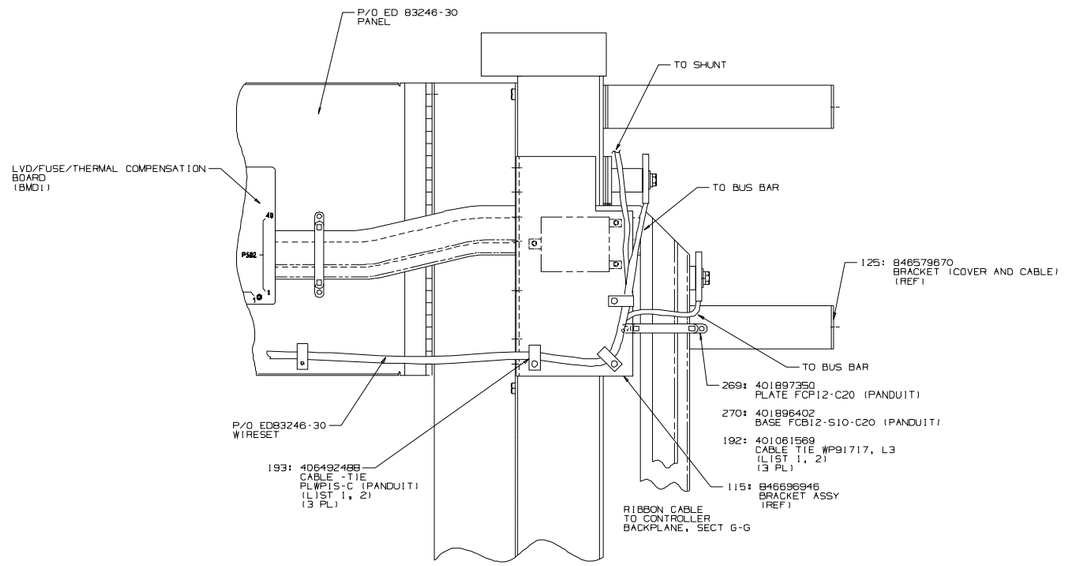
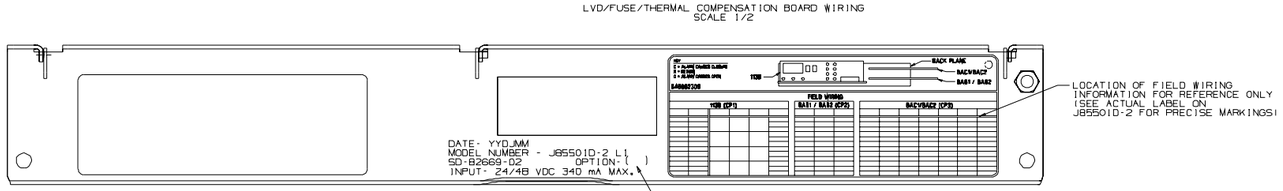


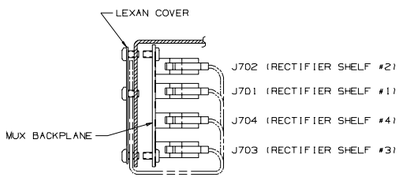
SECT. V-V (A)
LVD/FUSE BOARD WIRING
SCALE 1/2



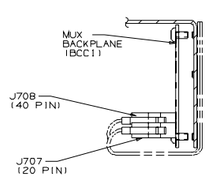
SECT. V-V

SECT. V-V (B)
LVD/FUSE/THERMAL COMPENSATION BOARD WIRING
SCALE 1/2



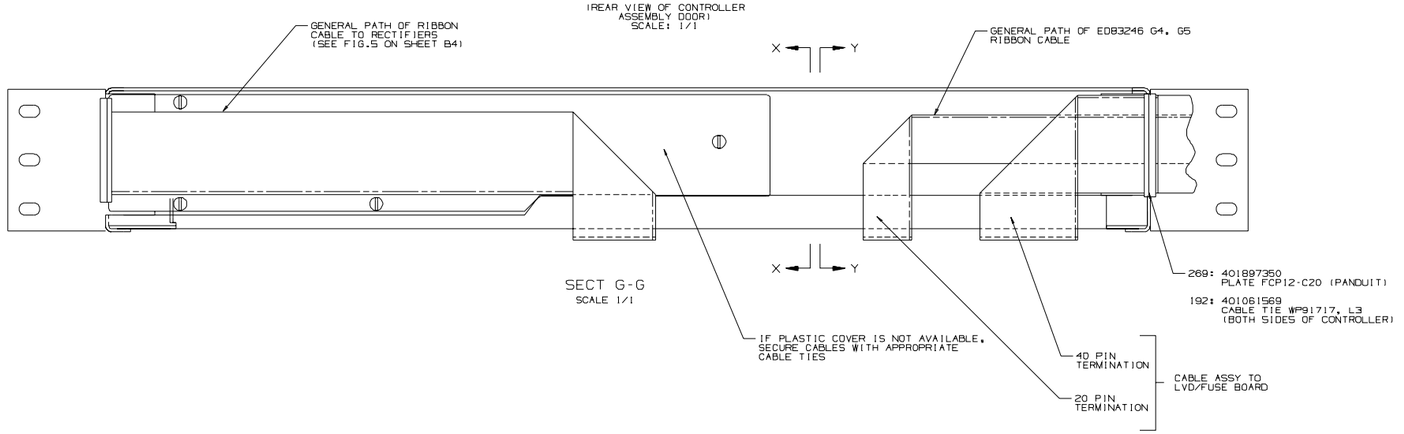


SECT. X-X
RIBBON CABLE ASSY (RECTIFIER)
TERMINATION TO CONTROLLER



SECT. Y-Y
RIBBON CABLE ASSY (LVD/FUSE BOARD OR LVD/FUSE/THERMAL COMPENSATION BOARD)
TERMINATION TO CONTROLLER

SECT. F-F
(REAR VIEW OF CONTROLLER
ASSEMBLY DOOR)
SCALE: 1/1



SECT G-G
SCALE 1/1

LINEAGE 2000 ECS BATTERY PLANT

			SHEET	ISSUE	DWG SIZE
LUCENT TECHNOLOGIES	DJ	J85500G-2	C2	22	C3

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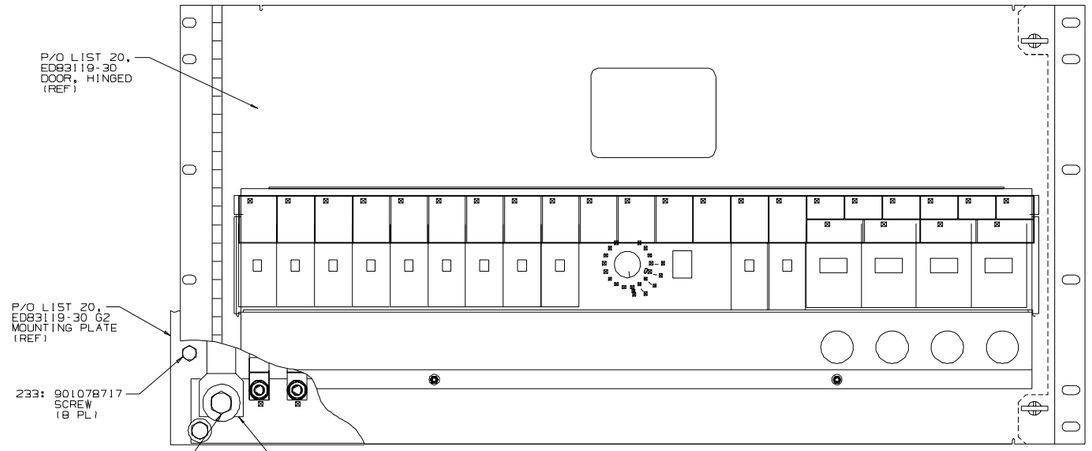
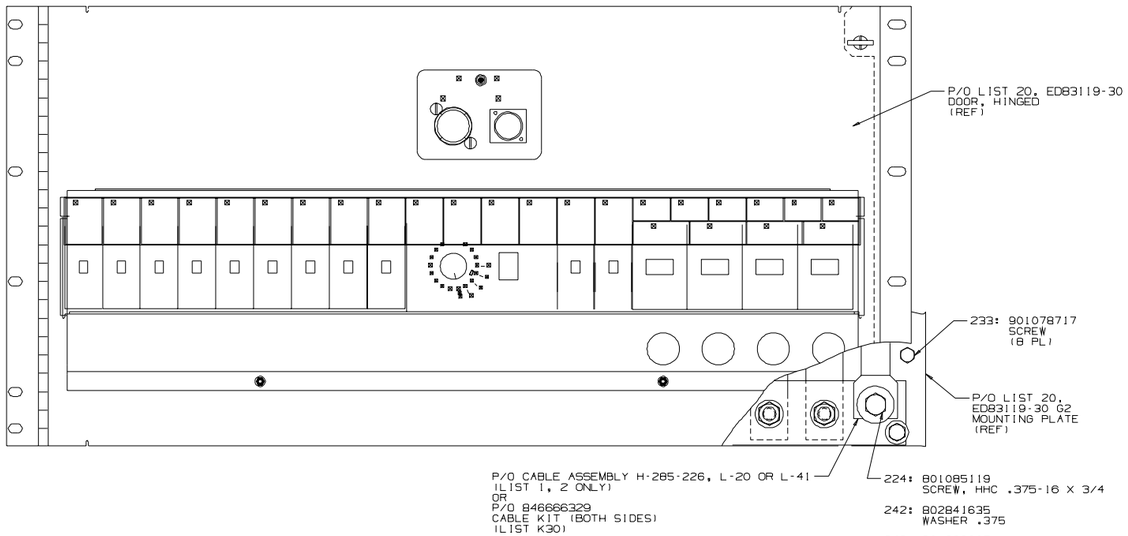


LIST 20 BREAKER PANEL
FULLY EQUIPPED WITH (21) LIST AA-AJ
KS22010 BREAKERS



LIST 20 BREAKER PANEL
EQUIPPED WITH (1) LIST AA-AJ BREAKERS,
LIST CA CAPACITOR CHARGE PANEL
AND (4) LIST AM-AR BREAKERS

FIG. 6
LIST 20
(5-600A BREAKER PANEL)

LINEAGE 2000 ECS BATTERY PLANT

LUCENT TECHNOLOGIES	DJ	J85500G-2	SHEET C3	ISSUE 19	DWG SIZE C3

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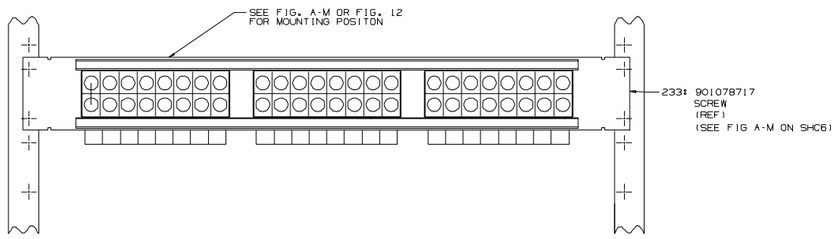
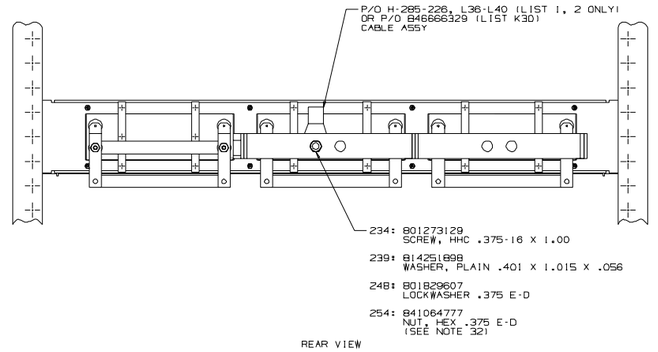
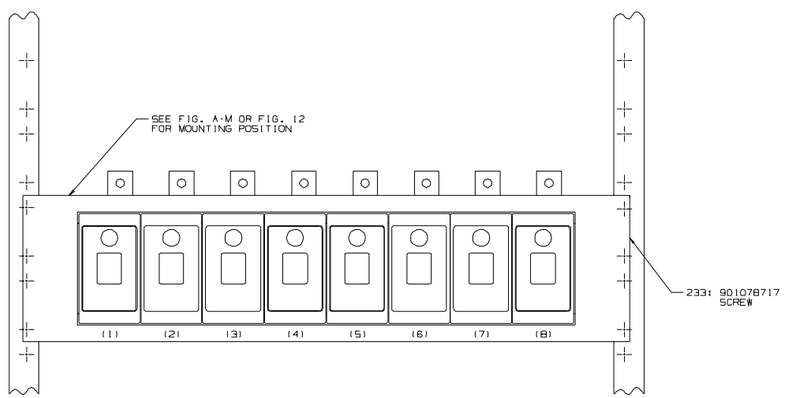


FRONT VIEW

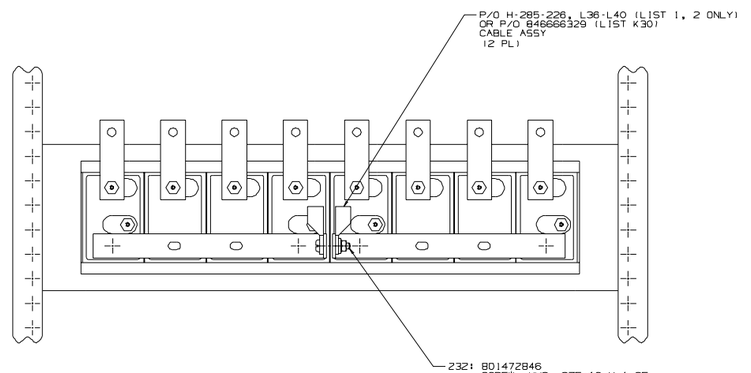


REAR VIEW

FIG. 7
LIST 30
1-30A FUSE BLOCK ASSY



FRONT VIEW



REAR VIEW

FIG. 8
LIST 31
1-60A FUSE BLOCK ASSY

LINEAGE 2000 ECS BATTERY PLANT

LUCENT TECHNOLOGIES	DJ	J85500G-2	SHEET C4	ISSUE 19	DWG SIZE C3

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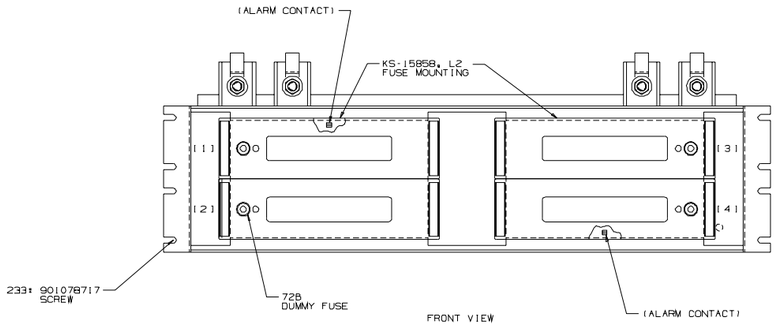


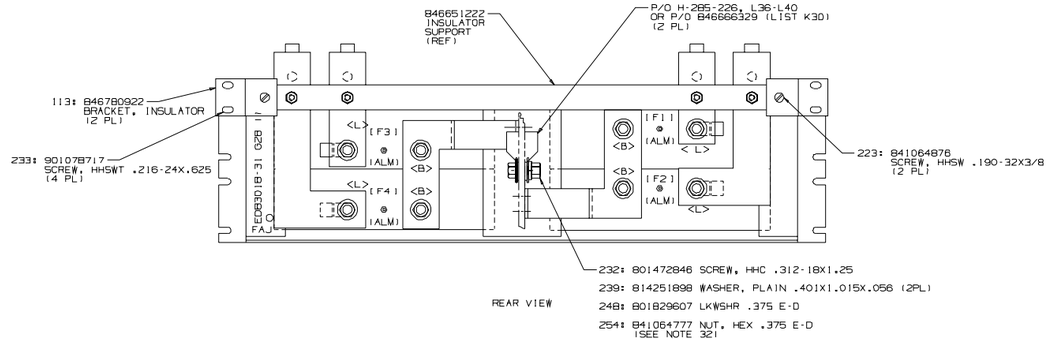
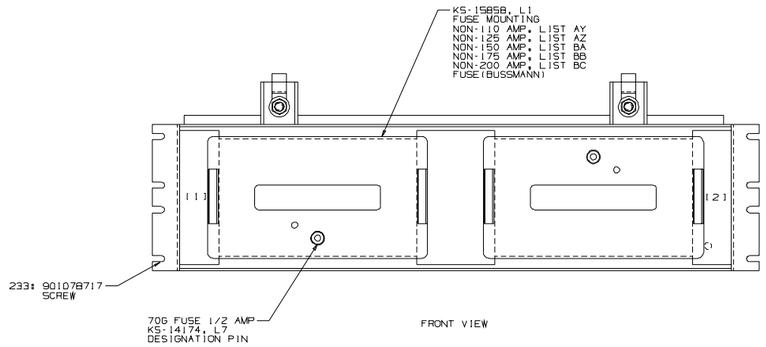


FIG. 9
LIST 32
(70-100A FUSE BLOCK ASSY)



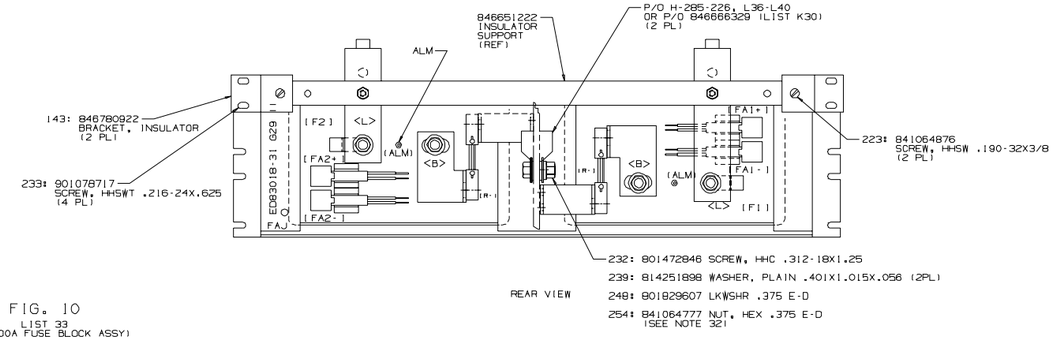
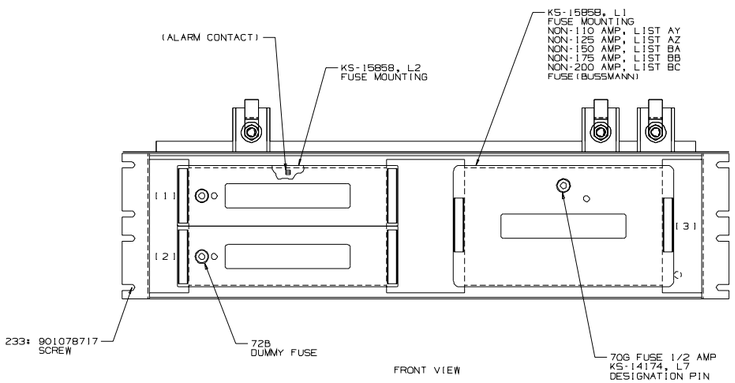


FIG. 10
LIST 33
(110-200A FUSE BLOCK ASSY)



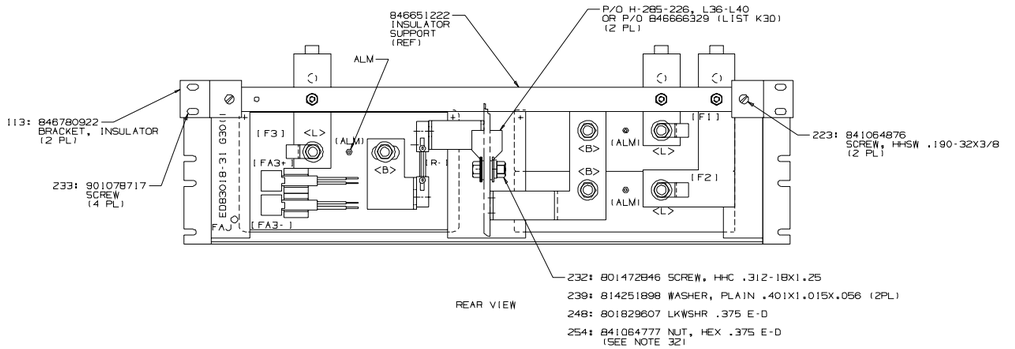


FIG. 11
LIST 34
(70-200A FUSE BLOCK ASSY)

LIST 34

LINEAGE 2000 ECS BATTERY PLANT

LUCENT TECHNOLOGIES	DJ	J85500G-2	SHEET C5	ISSUE 19	DWG SIZE C3

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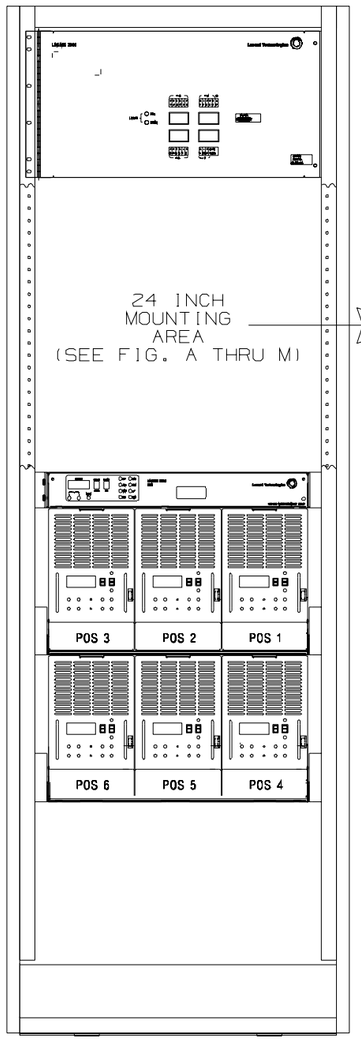
FRAME MOUNTING POSITION (FOR MANUFACTURING PERSONNEL ONLY)



(INITIAL BAY)

H285-226 SEE NOTE 4

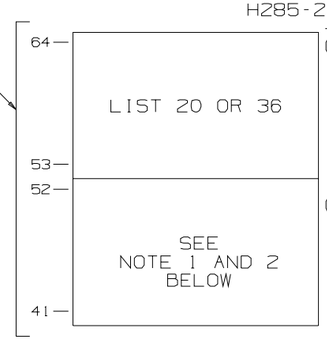


FIG. A

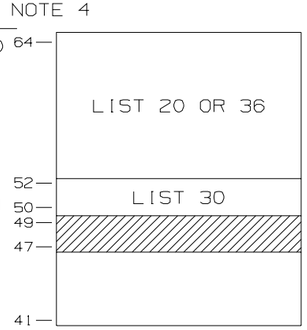


FIG. B

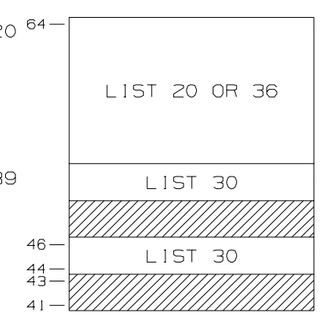


FIG. C

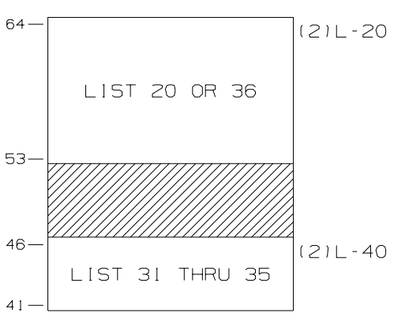


FIG. D

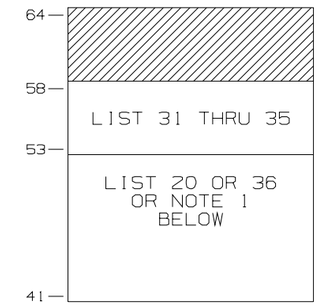


FIG. E

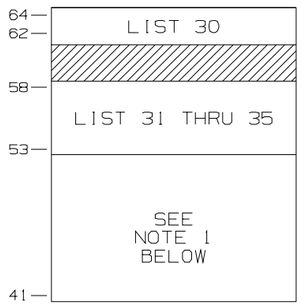


FIG. F

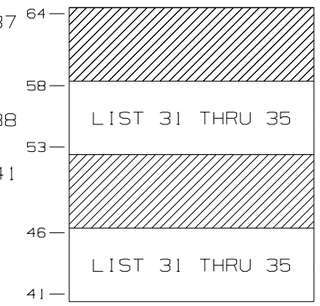


FIG. G

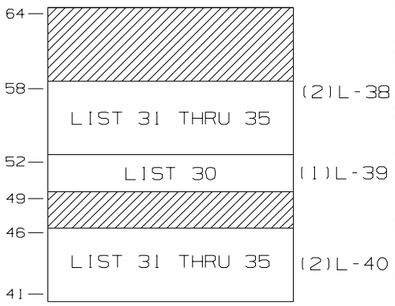


FIG. H

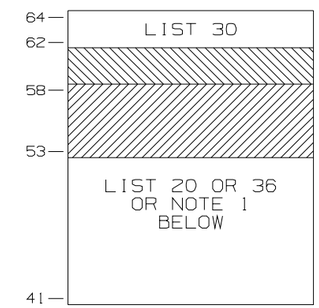


FIG. J

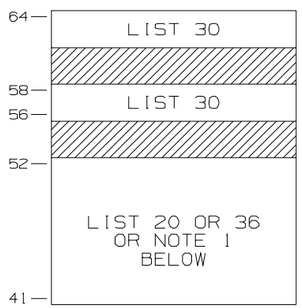


FIG. K

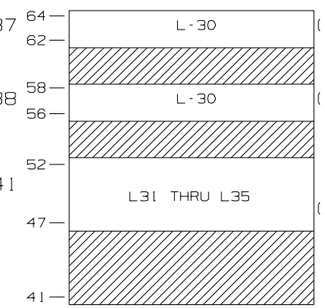


FIG. L

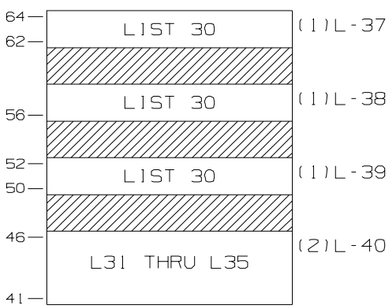


FIG. M

DESIGNATES AREA UNAVAILABLE FOR GROWTH, USED FOR FRONT ACCESS AND LOAD LEADS

INITIAL BAY DISTRIBUTION CONFIGURATIONS

NOTE 1: AVAILABLE FOR LIST 10, 4TH RECTIFIER SHELF, FUTURE NON-X DISTRIBUTION PANELS OR EQUIPPED WITH ITEMS (SEE MANUFACTURING NOTE 7).

NOTE 2: A SECOND LIST 20 OR LIST 36 CAN BE MOUNTED, BUT ONLY KS22010 BREAKERS (LIST AA-AJ) ALLOWED. EQUIP SECOND LIST 20 WITH SMALLEST AMPERAGE BREAKERS FOR EASE OF LOAD LEAD ROUTING. (SHOP TO USE (2) H285-226, L-41 FEEDER CABLES FOR LOWER MOUNTED L-20 PANEL)

NOTE 3: SEE MANUFACTURING NOTE 8 & 9.

NOTE 4: H285-226 LIST XX IS EQUIVALENT TO J85500G-2 LIST KXX. EXAMPLE: SEE TABLE K. (FOR MAUFACTURING PERSONNEL ONLY)

LINEAGE 2000 ECS BATTERY PLANT

	SHEET	ISSUE	DWG SIZE
LUCENT TECHNOLOGIES DJ J85500G-2	C6	21	C3

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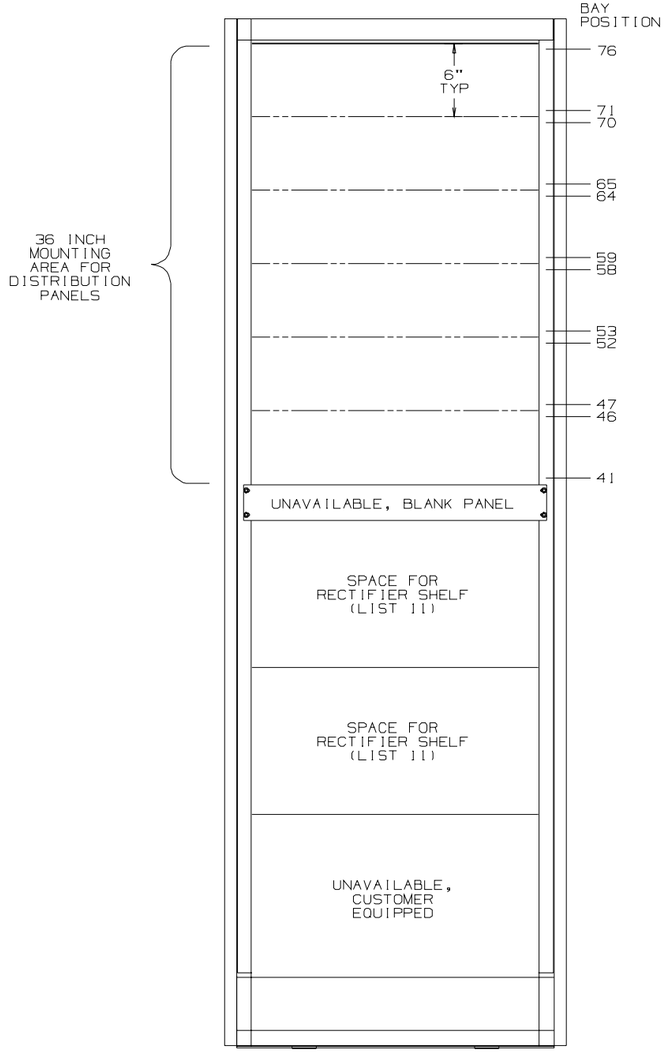

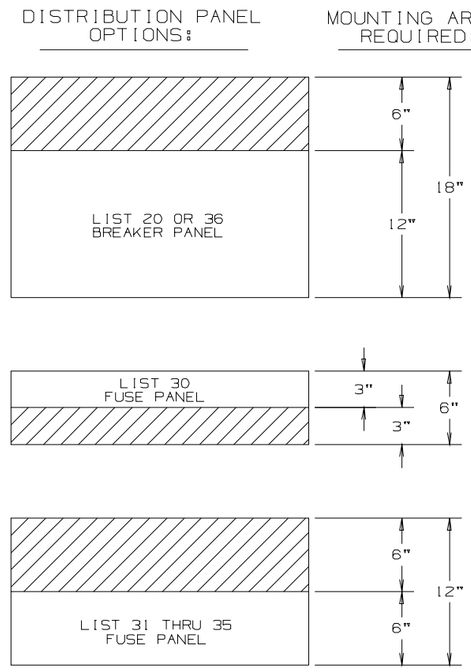

DESIGNATES AREA REQUIRED FOR LOAD LEAD ROUTING

OPTIONAL KITS FOR SUPPLEMENTARY BAY

LIST K1 - BLANK PANEL KIT - LOWER BAY

LIST K2 - BLANK PANEL KIT - UPPER BAY

LIST K3 - REAR COVER KIT - UPPER OR LOWER HALF OF BAY

LIST K4 - TWELVE INCH EXTENSION KIT

LIST K30 - DISTRIBUTION PANEL CABLE KIT - FOR UPPER HALF OF BAY

LIST KA - FRONT STILE STRIPS

LIST KB - END COVER

FIG. 12

SUPPLEMENTARY BAY ENGINEERING

LINEAGE 2000 ECS BATTERY PLANT

			SHEET	ISSUE	DWG SIZE
LUCENT TECHNOLOGIES	DJ	J85500G-2	C7	19	C3

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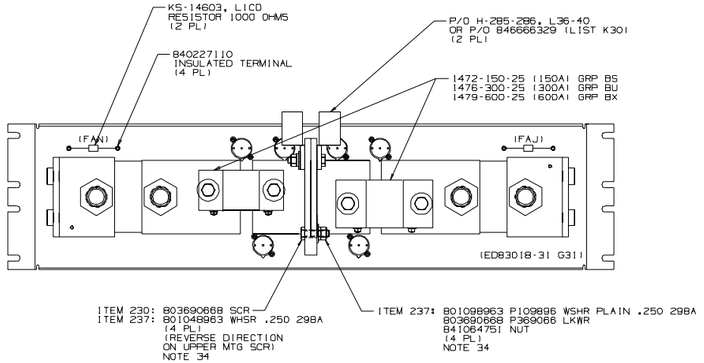

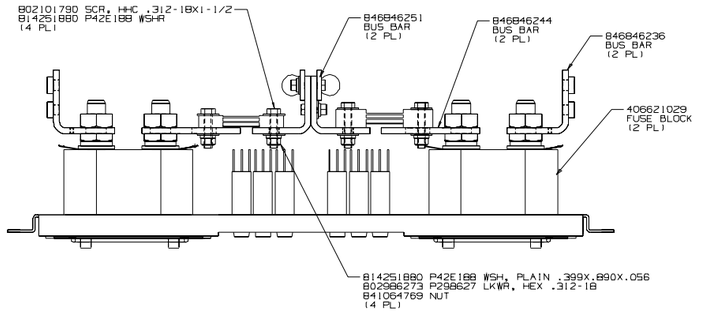

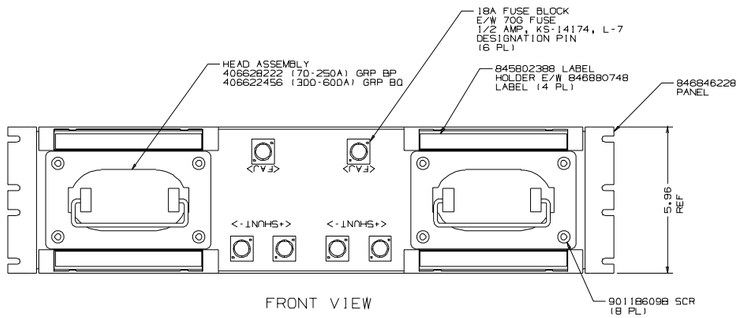

FRONT VIEW

FIG 24
LIST 35

FUSE BLOCK ASSY (70-600A)

LINEAGE 2000 ECS BATTERY PLANT				
		SHEET	ISSUE	DWG SIZE
LUCENT TECHNOLOGIES	DJ J85500G-2	C8	I9	C3

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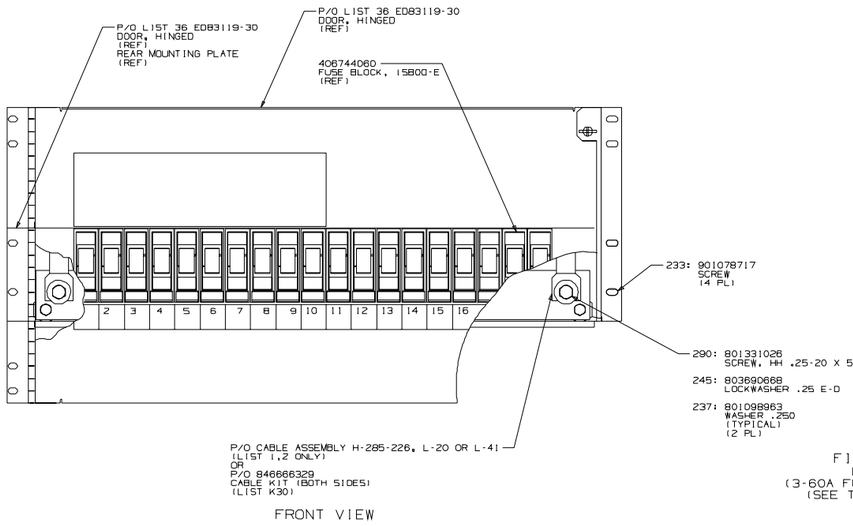
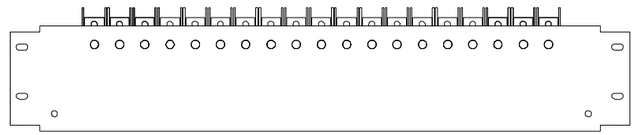


FRONT VIEW



REAR VIEW

FIGURE 25
LIST 36
(3-60A FUSE PANEL ASSY)
(SEE TABLES W & Z)

LUCENT TECHNOLOGIES	DJ	J85500G2	SHEET C9	ISSUE I9	DWG SIZE C3

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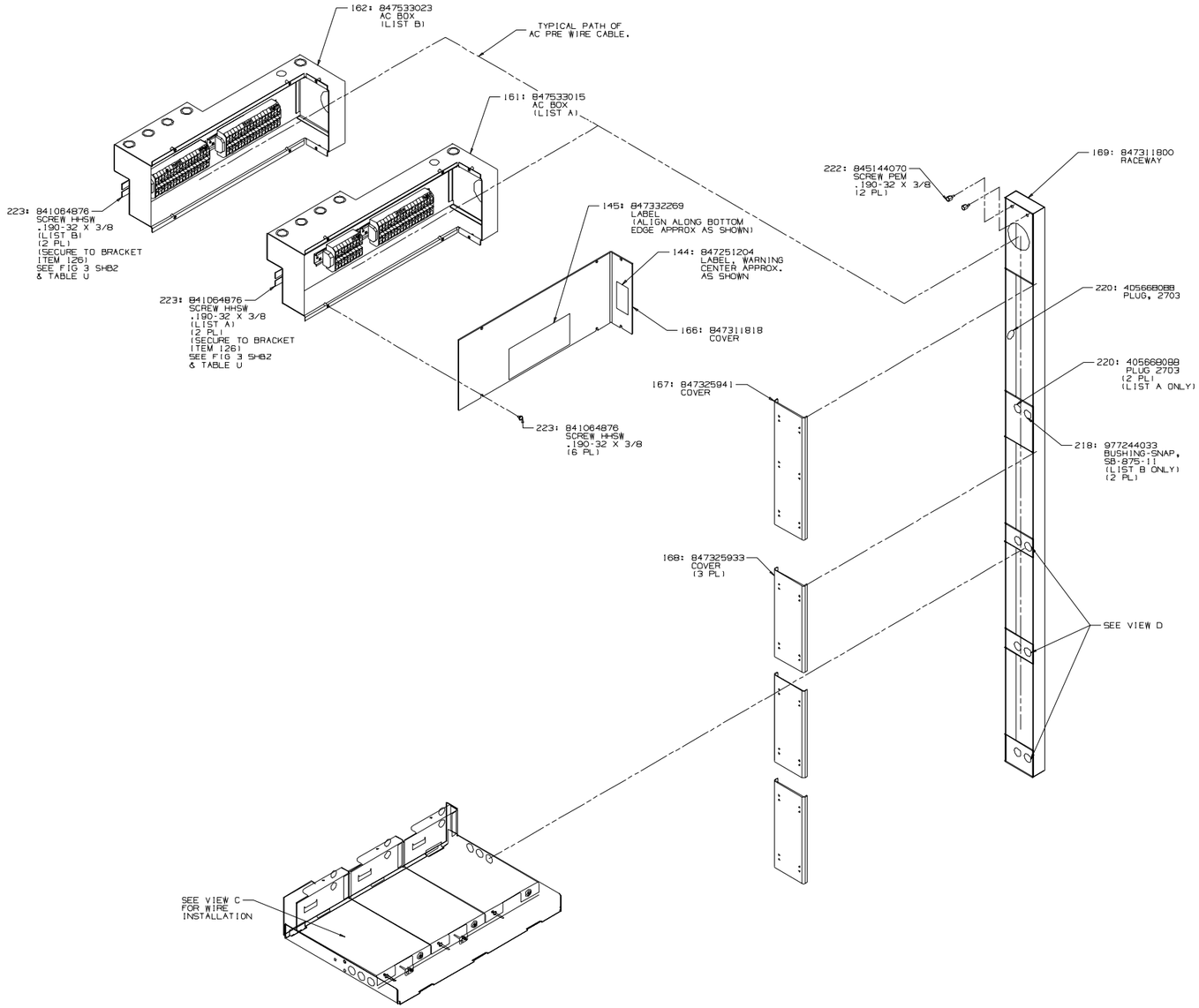
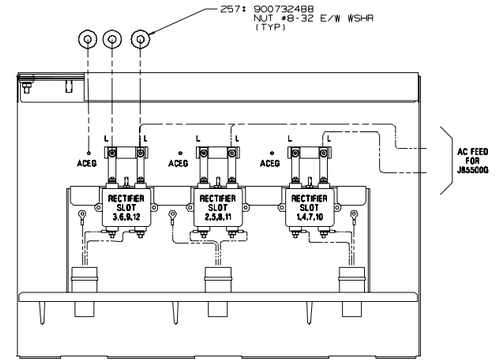


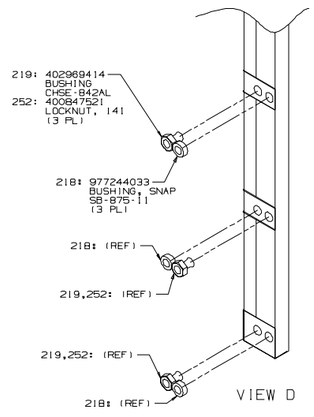
AC PREWIRE

(LIST A & B)

NOTE: THE PICTORIAL REPRESENTATIONS SHOWN BELOW ARE FOR REFERENCE ONLY. ITEMS CALLED OUT, HOWEVER, MUST BE OBSERVED.



VIEW C



VIEW D

LINEAGE 2000 ECS BATTERY PLANT				
COPYRIGHT © 1997 LUCENT TECHNOLOGIES, INC. ALL RIGHTS RESERVED				
		SHEET	ISSUE	DWG SIZE
LUCENT TECHNOLOGIES	DJ J85500G-2	C10	19	C3

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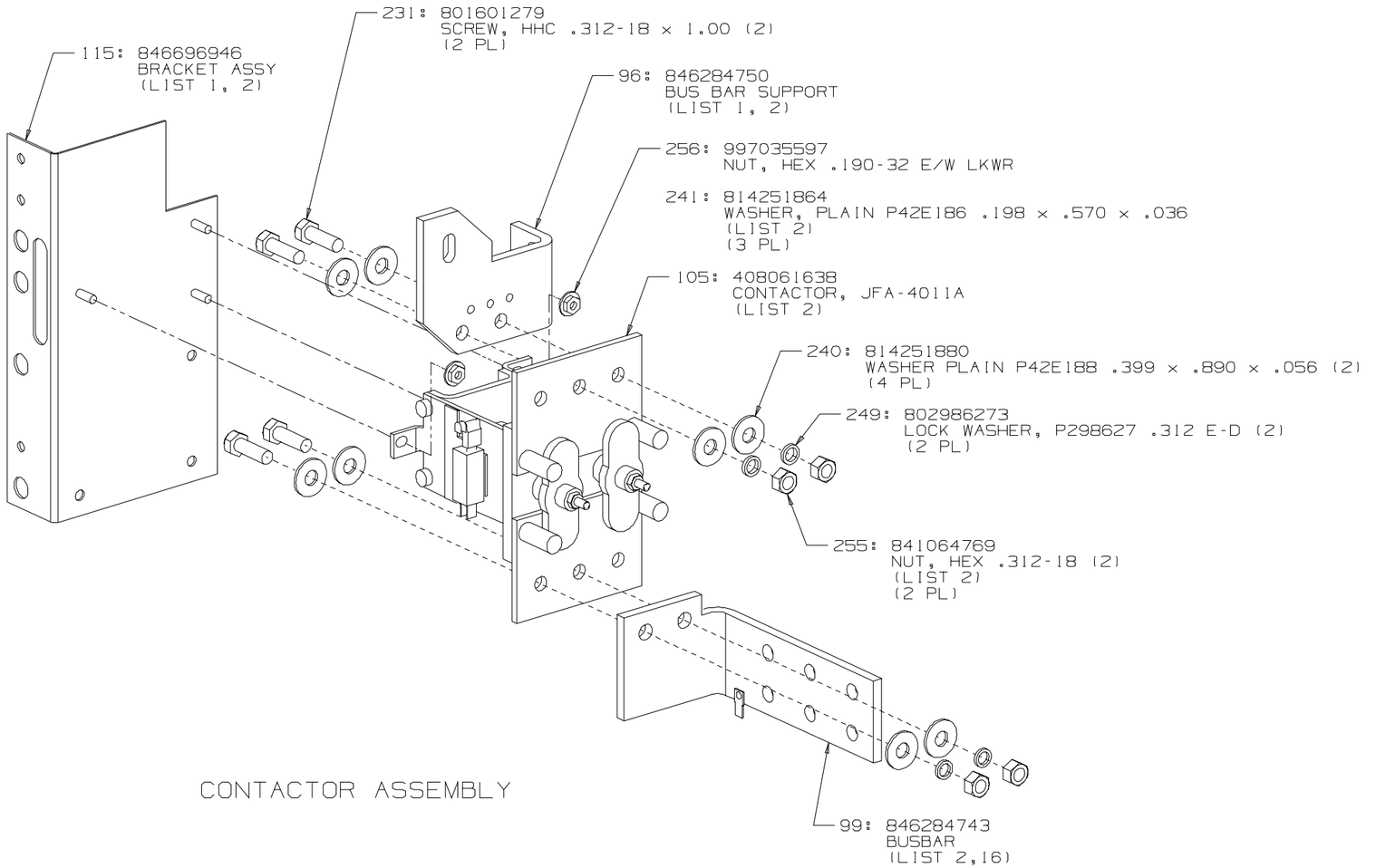
UGII V4.1 (02-22-88)



CONTACTOR ASSEMBLY

LINEAGE 2000 ECS BATTERY PLANT					
COPYRIGHT © 1999 LUCENT TECHNOLOGIES ALL RIGHTS RESERVED					
			SHEET	ISSUE	DWG SIZE
LUCENT TECHNOLOGIES	DJ	J85500G-2	C11	26	C3

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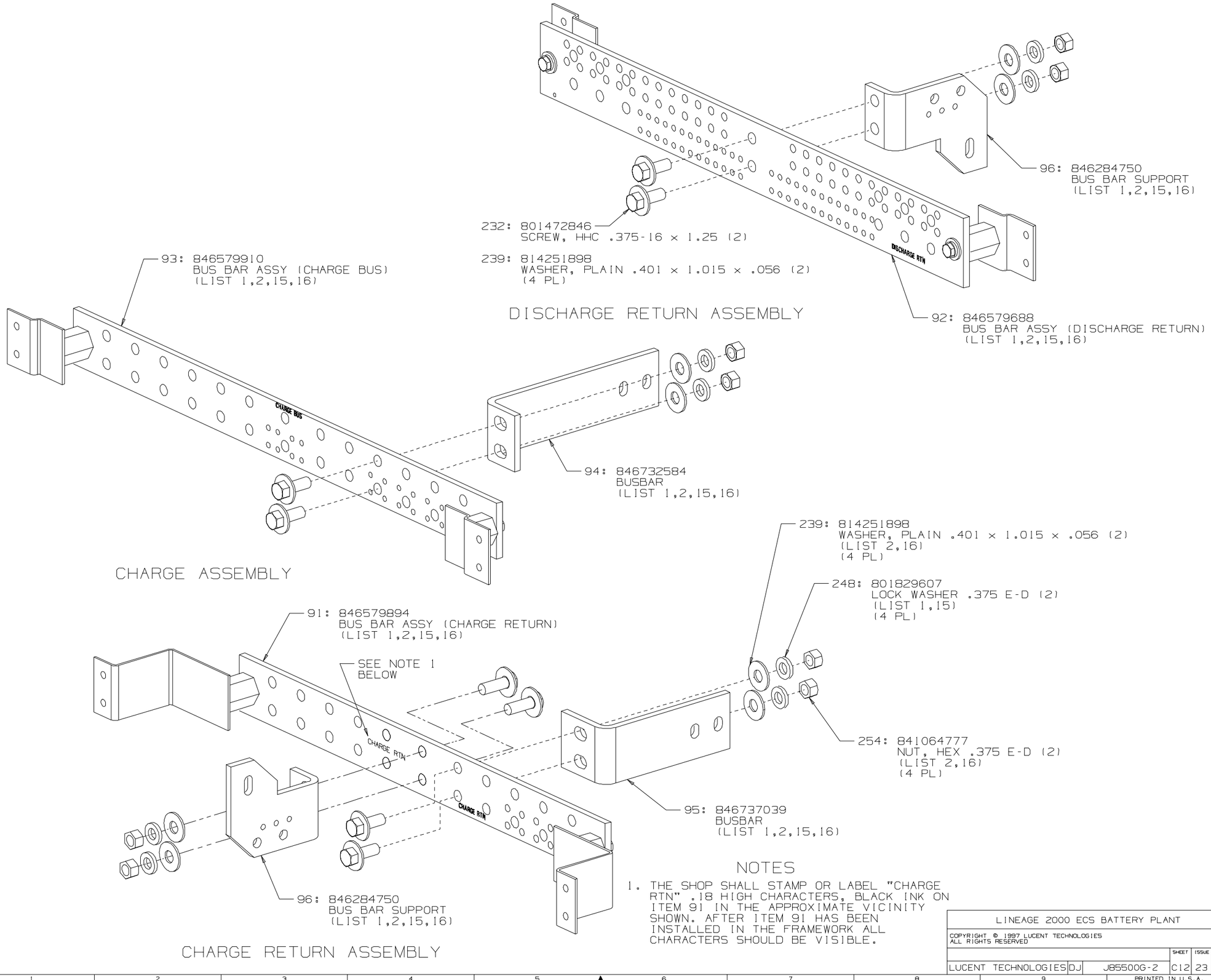
UG11 V4.1 (02-22-88)



NOTES

1. THE SHOP SHALL STAMP OR LABEL "CHARGE RTN" .18 HIGH CHARACTERS, BLACK INK ON ITEM 91 IN THE APPROXIMATE VICINITY SHOWN. AFTER ITEM 91 HAS BEEN INSTALLED IN THE FRAMEWORK ALL CHARACTERS SHOULD BE VISIBLE.

LINEAGE 2000 ECS BATTERY PLANT

LUCENT TECHNOLOGIES	DJ	JB5500G-2	SHEET C12	ISSUE 23	DWG SIZE C3

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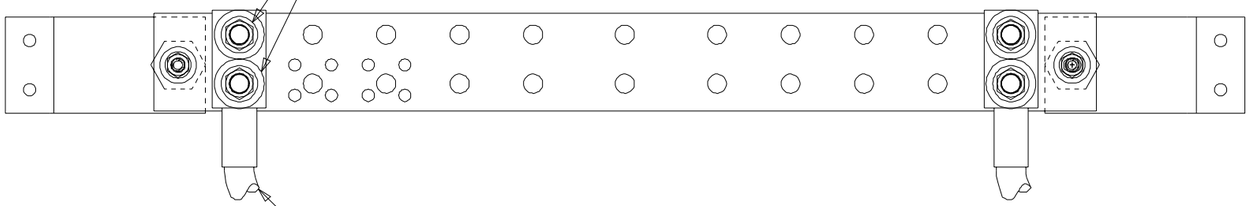
TYPICAL HARDWARE STACK UP

232: 801472846 SCREW HHC 3/8-16 X 1 1/4 LG.
242: 802841635 WASHER 3/8 289A
248: 801829607 WASHER, LOCK 3/8 E-D
254: 841064777 NUT, HEX 3/8 E-D



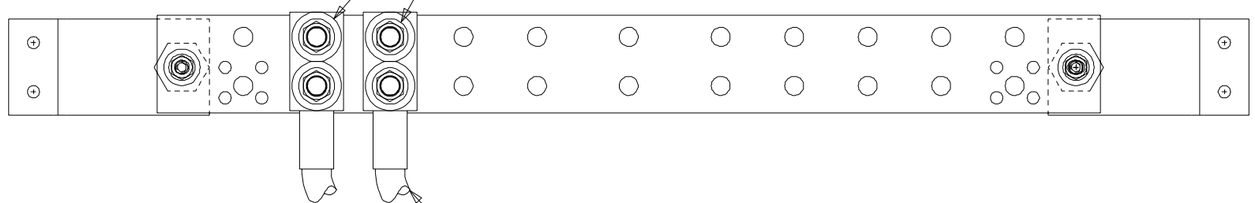
P/O CABLE ASSEMBLY H-285-226, L-20 OR 41

REAR VIEW
LIST 20 OR 36 TYPICAL CABLE CONNECTION TO CHARGE BUSBAR

NOTE:
FOR SHOP MOUNTED UNITS IN AN INITIAL BAY FRAME WORK.

TYPICAL HARDWARE STACK UP

232: 801472846 SCREW HHC .3/8-16 X 1 1/4 LG.
242: 802841635 WASHER .3/8 289A
248: 801829607 WASHER, LOCK .3/8 E-D
254: 841064777 NUT, HEX .3/8 E-D



P/O CABLE ASSEMBLY H-285-226, L36-L40

REAR VIEW
LIST 30,31,32,33,34,35 TYPICAL CABLE CONNECTION TO CHARGE BUSBAR

NOTE:
FOR SHOP MOUNTED UNITS IN AN INITIAL BAY FRAME WORK.

LINEAGE 2000 ECS BATTERY PLANT

	SHEET	ISSUE	DWG SIZE
LUCENT TECHNOLOGIES DJ J855006-2	C13	19	C3

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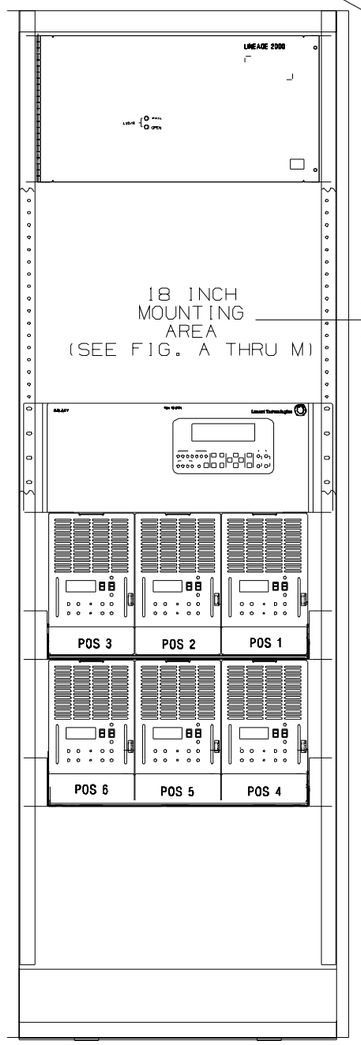
FEEDER CABLE REQUIRED
(FOR MANUFACTURING PERSONNEL ONLY)

FRAME MOUNTING POSITION
(FOR MANUFACTURING)
(PERSONNEL ONLY)



(INITIAL BAY)

H285-226

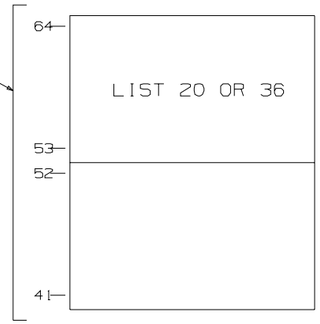


FIG. A

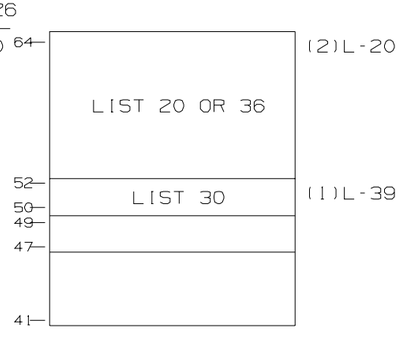


FIG. B

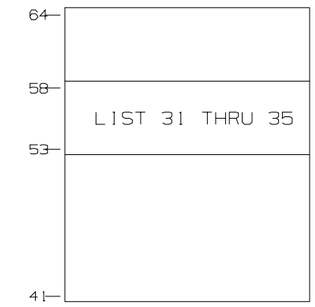


FIG. E

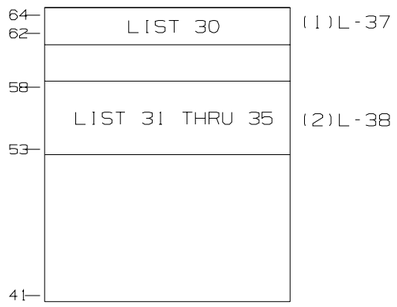


FIG. F

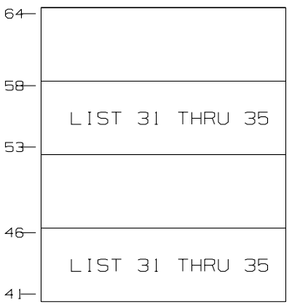


FIG. G

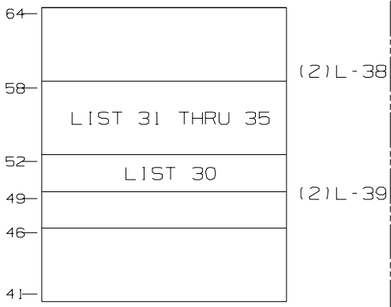


FIG. H

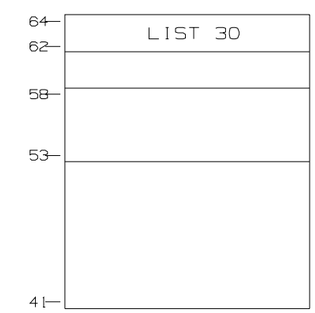


FIG. J

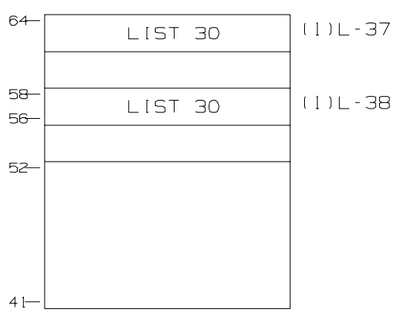


FIG. K

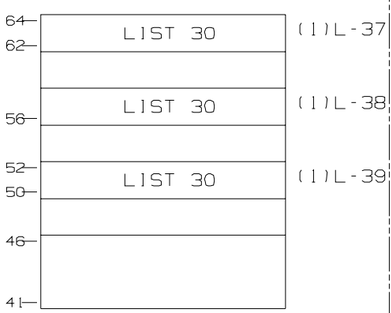


FIG. M

DESIGNATES AREA UNAVAILABLE FOR GROWTH.
USED FOR FRONT ACCESS AND LOAD LEADS

INITIAL BAY DISTRIBUTION CONFIGURATIONS WITH A GALAXY CONTROLLER

LINEAGE 2000 ECS BATTERY PLANT

LUCENT TECHNOLOGIES	DJ	J85500G-2	SHEET C14	ISSUE 29	DWG SIZE C3

PRINTED IN U.S.A.

UG11 V4.1 (02-22-88)

STOCKLIST

ITEM	LIST	QTY/ LIST	IDENTIFICATION NO. COMCODE	IDENTIFICATION NO. DRAWING	DESCRIPTION	REF	NOTE SYM	NOTE NO
1	~~DLT~~		~~601170186~~	~~ED97735-70-G6~~	~~SINGLE BAY FRAMEWORK~~		~~DLT~~	~~5~~
2	1,2,3	1	846939635		FRWK ASM			
	15,16	1						
6	12	-1		ED-83246-30,G4	LVD/FUSE POWER SUPPLY			
	1	1			PANEL			
7	13	-1		"ED-83246-30, G5"	LVD/FUSE POWER SUPPLY			
	2	1			PANEL			
8	15	1		ED8324630G12	PANEL			
9	16	1		ED8324630G13	LVD PANEL			
10	12	1		ED-83246-30,G14	FUSE POWER SUPPLY E/W			
					THERMAL SLOPE			
					COMPENSATION CIRCUIT			
11	13	1		ED-83246-30,G15	FUSE POWER SUPPLY PANEL			
					E/W LVD/R AND THERMAL			
					SLOPE COMPENSATION			
					CIRCUIT PACK			
12	1,2	1	601333271	J85501D-2,L1	CONTROLLER E/W CP1			
13	15,16	1		"J85501F-1, L1,11,22,35	GALAXY CONTROLLER			
15	12,13	1	847732377		THERMAL COMPENSATION KIT			
17	~~DLT~~		~~601357957~~	~~"J85702B-1, L4"~~	~~RECTIFIER SHELF ASSY~~		~~DLT~~	~~5~~
18	10,11	1	601799240	J85702B-2,L4	RECTIFIER SHELF ASSEMBLY			
	1,2	2						
19	17,18	1	601799257		RECTIFIER SHELF ASSY			
	15,16	2			(GALAXY)			
21	20	1		"ED-83119-30, G2"	CRT BRK PANEL ASSY			30
22	36	1		ED8311930G3	FUSE BLOCK ASSY (3-60A)			30
23	AA	1		ED-83119-30,GAA	CRT BKR ASSY (5A)			
24	AB	1		ED-83119-30,GAB	CRT BKR ASSY (10A)			
25	AC	1		ED-83119-30,GAC	CRT BKR ASSY (20A)			
26	AD	1		ED-83119-30,GAD	CRT BKR ASSY (30A)			
27	AE	1		ED-83119-30,GAE	CRT BKR ASSY (45A)			
28	AF	1		ED-83119-30,GAF	CRT BKR ASSY (60A)			
29	AG	1		ED-83119-30,GAG	CRT BKR ASSY (80A)			
30	AH	1		ED-83119-30,GAH	CRT BKR ASSY			
					(100A)(KS22010)			
31	AJ	1		ED-83119-30,GAJ	CRT BKR ASSY (15A)			
32	AL	1		ED-83119-30,GAL	CRT BKR ASSY			
					(100A)(KS22012)			
33	AM	1		ED-83119-30,GAM	CRT BKR ASSY (125A)			
35	AP	1		ED-83119-30,GAP	CRT BKR ASSY (175A)			
37	AR	1		ED-83119-30,GAR	CRT BKR ASSY (225A)			
39	AU	1		ED-83119-30,GAU	CRT BKR ASSY (300A)			
40	AV	1		ED-83119-30,GAV	CRT BKR ASSY (400A)			
41	AW	1		ED-83119-30,GAW	CRT BKR ASSY (500A)			
42	AX	1		ED-83119-30,GAX	CRT BKR ASSY (600A)			
44	CA	1		ED-83119-30,GCA	CAPACITOR CHARGE			
					FEATURE/SWITCH			
47	30	1		ED8318230G1	FUSE BLOCK ASSY (0-30A)			30
								32
48	31	1		ED8318230G2	FUSE BLOCK ASSY (0-60A)			30
								32
50	H	1		ED8318230GH	FUSE MOUNTING, 1 TO 30A			
51	J	1		ED8318230GJ	FUSE MOUNTING, 35 TO 60A			
53	32	1		ED8301831G28	FUSE BLOCK ASSY (70-100A)			30

STOCKLIST

ITEM	LIST	QTY/ LIST	IDENTIFICATION NO. COMCODE	IDENTIFICATION NO. DRAWING	DESCRIPTION	REF	NOTE SYM	NOTE NO
								32
54	33	1		"ED-83018-31, G29"	FUSE BLOCK ASSY			30
					(110-200A)			32
55	34	1		"ED-83018-31, G30"	FUSE BLOCK ASSY (70-200A)			30
								32
56	35	1		ED-83018-31,G31	FUSE BLOCK ASSY (70-600A)			
57	AY	1		ED-83018-31,GAY	LOAD MON SHUNT & FUSE			
					(110A)			
58	AZ	1		ED-83018-31,GAZ	LOAD MON SHUNT & FUSE			
					(125A)			
59	BA	1		ED-83018-31,GBA	LOAD MON SHUNT & FUSE			
					(150A)			
60	BB	1		ED-83018-31,GBB	LOAD MON SHUNT & FUSE			
					(175A)			
61	BC	1		ED-83018-31,GBC	LOAD MON SHUNT & FUSE			
					(200A)			
62	BP	1		ED-83018-31,GBP	FUSE BLOCK HEAD (70-250A)			
63	BQ	1		ED-83018-31,GBQ	FUSE BLOCK HEAD			
					(300-600A)			
64	BS	1		ED-83018-31,GBS	LOAD MONITORING SHUNT			
					(150A)			
65	BU	1		ED-83018-31,GBU	LOAD MONITORING SHUNT			
					(300A)			
66	BX	1		ED-83018-31,GBX	LOAD MONITORING SHUNT			
					(600A)			
69	~~DLT~~		~~601286297~~	~~"H-285-226, L-20"~~	~~FEEDER CABLE ASSY (30"~~		~~DLT~~	~~5~~
					4/0)			
70	~~DLT~~		~~601326192~~	~~"H-285-226, L-38"~~	~~FEEDER CABLE ASSY (27"~~		~~DLT~~	~~5~~
					2/0)			
76	~~DLT~~		~~107310187~~		~~364A3 RECTIFIER~~		~~S~~	~~21~~
77	~~DLT~~		~~106673502~~		~~A-PU/364A2 POWER UNIT~~		~~DLT~~	~~5~~
80	~~DLT~~		~~847366788~~		~~CP2 WITHOUT VOICE~~		~~S~~	~~21~~
					RESPONSE			
81	~~DLT~~		~~847366796~~		~~CP2 WITH VOICE RESPONSE~~		~~S~~	~~21~~
82	~~DLT~~		~~846616894~~		~~CP2 VOICE SYNTHESIS~~	~~CP2~~	~~S~~	~~21~~
					UPGRADE KIT			
83	~~DLT~~		~~847366820~~		~~CP2 WITH X.25/TL1~~	~~CP2~~	~~S~~	~~21~~
84	~~DLT~~		~~847366838~~		~~CP2 VOICE RESPONSE AND~~	~~CP2~~	~~S~~	~~21~~
					X.25/TL1			
85	~~DLT~~		~~846575223~~		~~CP3 DATALOGGER~~		~~S~~	~~21~~
86	~~DLT~~		~~846632982~~		~~CP3 WITH REMOTE~~		~~S~~	~~21~~
					TERMINATION PANEL			
89	1,2,15	2	846797223		SHIELD			
	16	2						
91	1,2,15	1	846579894		BUS BAR ASSY, CHARGE			
	16	1			RETURN			
92	1,2,15	1	846579688		BUS BAR ASSY, DISCHARGE			
	16	1			RETURN			
93	1,2,15	1	846579910		BUS BAR ASSY, CHARGE BUS			
	16	1						
94	1,2,15	1	846732584		BUS BAR			
	16	1						
95	1,2,15	1	846737039		BUS BAR			
	16	1						
96	1,15	2	846284750		BUS BAR, SUPPORT			
	2,16	3						

STOCKLIST

ITEM	LIST	QTY/ LIST	IDENTIFICATION NO. COMCODE	IDENTIFICATION NO. DRAWING	DESCRIPTION	REF	NOTE SYM	NOTE NO
97	1,2,15	1	846797207		BUS BAR ASSY			
	16	1						
98	1,2,15	1	846797215		BUS BAR ASSY			
	16	1						
99	2,16	1	846284743		BUS BAR, BATTERY BUS			
100	10,17	1	846640043		BUS BAR, POSITIVE			
	1,2,15	2						
	16	2						
101	10,17	1	846640050		BUS BAR, NEGATIVE			
	1,2,15	2						
	16	2						
103	~~DLT~~		~~407844521~~		~~CONTACTOR, 600A/54V~~		~~DLT~~	~~5~~
					JFA-4011A (PRESTOLITE)			
104	~~DLT~~		~~405014622~~		~~CONTACTOR (PRESTOLITE~~		~~DLT~~	~~5~~
					JFA4011A)			
105	2,16	1	408061638		JFA-4011A, CONTACTOR,			
					PRESTOLITE			
106	1,2	3	405673146		FUSE			
107	1,2	1	405181983		FUSE			
108	1,2	1	406159061		FUSE, WP90247 L13, 5 AMP			
110	11,18	2	846745263		BUS BAR, RECTIFIER			
111	1,2,15	2	846612273		MOUNTING BRACKET FOR			
	16	2			CONTROLLER			
112	10,11,17	2	846579647		BRACKET, (RECTIFIER)			
	18	2						
	1,2,15	4						
	16	4						
113	32,33,34	2	847780922		BRACKET, INSULATOR			
115	1,2,15	1	846696946		BRACKET ASSY			
	16	1						
116	KA	2	846804995		BRACKET ASSY			
117	K1	-2	846787364		BRACKET ASSY			
	KA	2						
121	1,2,3	1	846337798		BUS BAR ADAPTER			
	15,16	1						
123	A,B	-1	846704799		SUPPORT, CABLE			
	1,2,15	2						
	16	2						
124	~~DLT~~		~~845674266~~		~~REAR COVER~~		~~DLT~~	~~5~~
125	3	4	846579670		BRACKET (COVER AND CABLE)			
	K3	6						
	1,2,15	12						
	16	12						

SHEET INDEX											
	ISSUE	28	28	28							
	SH NO	D1	D2	D3							
	ISSUE										
	SH NO										

LINEAGE 2000 ECS BATTERY PLANT

MATRIX VERSION 28

LUCENT TECHNOLOGIES	DJ	J85500G-2	SHEET D1	ISSUE 28	DWG SIZE B

STOCKLIST

ITEM	LIST	QTY/LIST	IDENTIFICATION NO. COMCODE	IDENTIFICATION NO. DRAWING	DESCRIPTION	REF	NOTE SYM	NOTE NO
126	1,2,15	4	845674290		BRACKET, CABLE SUPPORT			
	16	4						
128	3	2	846780955		CHANNEL, 3 INCH			
129	15,16	4	846780856		CHANNEL, 12 INCH			
	K1,1,2	6						
	3	6						
130	15,16	2	847703758		CHANNEL, 15 INCH			
131	K3	1	847494549		COVER, FRAME REAR			
	1,2,15	2						
	16	2						
133	30	1	843780008		PANEL, 3 INCH			
134	KD,20,36	-2	843780016		PANEL, 6 INCH			
	30,31,32	-1						
	33,34,35	-1						
	15,16	3						
	1,2	4						
	K1,K2	6						
135	3	1	846609287		PANEL, 3 INCH (PRODUCT ID)			
138	15,16	1	847740057		WIRE SET GALAXY PWR			
139	15,16	1	847683968		CABLE ASSY SHELF 1			
140	15,16	1	847683976		CABLE ASSY SHELF 2			
141	15,16,18	1	847702032		CABLE ASSY SHELF 3			
143	1,2,3	1	847230505		LABEL, PRODUCT			25
	15,16	1			IDENTIFICATION			
144	A,B	1	847251204		LABEL (SPANISH)			
145	A,B	1	847332269		LABEL			
146	~~DLT~~		~~845511138~~		~~LBL (IDENTIFICATION)~~		DLT	5
147	1,2,15	1	846516706		LABEL, RECTIFIER POSITION			
	16	1			INDICATOR (1-6)			
148	10,11,17	1	846677235		LABEL, RECTIFIER POSITION			
	18	1			INDICATOR (7-12)			
151	1,2	1	846666204		RIBBON CABLE ASSY			27
152	1,2	1	846666212		CABLE ASSEMBLY (RIBBON - NUMBER 1 RECTIFIER SHELF ASSEMBLY)			
153	1,2	1	846666220		CABLE ASSEMBLY (RIBBON - NUMBER 2 RECTIFIER SHELF ASSEMBLY)			
154	1,2	1	846666238		CABLE ASSEMBLY (RIBBON - NUMBER 3 RECTIFIER SHELF ASSEMBLY)			27
155	11	1	846708493		RIBBON CABLE ASSY, IF (72 IN.)			75
157	~~DLT~~		~~847275302~~		~~AC CABLE ASSY, (RECT 1-3)~~		DLT	5
158	~~DLT~~		~~847275310~~		~~AC CABLE ASSY, (RECT 4-6)~~		DLT	5
159	~~DLT~~		~~847275328~~		~~AC CABLE ASSY, (RECT 7-9)~~		DLT	5
160	~~DLT~~		~~847275336~~		~~AC CABLE ASSY, (RECT 10-12)~~		DLT	5
161	A	1	847533015		AC-PRE WIRE ASSY			
162	B	1	847533023		AC-PRE WIRE ASSY			
163	~~DLT~~		~~847229739~~		~~ASSEMBLY BLOCK~~		DLT	5
164	~~DLT~~		~~847312808~~		~~ASSEMBLY BLOCK~~		DLT	5
165	~~DLT~~		~~847289329~~		~~AC BOX~~		DLT	5
166	A,B	1	847311818		COVER (AC BOX)			
167	A,B	1	847325941		COVER (RACEWAY)			
168	A,B	3	847325933		COVER (RACEWAY)			
169	A,B	1	847311800		RACEWAY			

STOCKLIST

ITEM	LIST	QTY/LIST	IDENTIFICATION NO. COMCODE	IDENTIFICATION NO. DRAWING	DESCRIPTION	REF	NOTE SYM	NOTE NO
172	11,18	1	846666311		CABLE ASSY KIT (1/0) RSA			
174	K30	1	846666329		CABLE KIT (SUPPL BAY DIST)			
176	1,2,15	1	402830897		SHUNT, A-600-50 (EMPRO)			
	16	1						
180	1,2,3	2	844218784		PLATE HOLD DOWN			
	15,16	2						
181	1,2,3	4	841630155		WASHER			
	15,16	4						
182	1,2,3	4	406967794		ANCHOR BOLTS (4) 12MM			
	15,16	4			DROP-IN			
186	1,2,3	1	843054404		COVER, BASE			
	15,16	1						
187	1,2,3	1	845802628		GUARD RAIL ASSY			
	15,16	1						
190	~~DLT~~		~~403589062~~		~~GROMMET SNGS-2~~		DLT	5
191	A,B	4	901067017		CABLE TIE			15
	1,2,15	8						
	16	8						
192	1,2,15	8	401061569		CABLE TIE WP91717 L3			
	16	8						
193	1,2,15	3	406492488		CABLE TIE, PLWP1S-C			
	16	3			(PANDUIT)			
197	1,2	1	106483779		PRODUCT MANUAL (LINEAGE 2000 ECS CONTROLLER), SELECT CODE 167-790-033			
198	1,2,15	1	106777097		PRODUCT MANUAL (LINEAGE			
	16	1			2000 SR SERIES			
					RECTIFIER), SELECT CODE			
					169-790-117			
199	1,2,3	1	106648348		PRODUCT MANUAL (LINEAGE			
	15,16	1			2000 ECS BATTERY PLANT),			
					167-790-035			
200	~~DLT~~		~~846801819~~		~~LINEAGE 2000 BATTERY~~ PLANT MANUAL BINDER.		DLT	5
201	1,2,15	1	846677243		SERVICE KIT (DRAWING			
	16	1			PACKAGE)			
202	ES	1	847463510		SPANISH DOCUMENTATION KIT, KIT DOCTN J85500D-3 ECS			93
205	KA	1	846781037		STILE STRIP ASM LEFT			
206	KA	1	846781045		STILE STRIP ASSY (RIGHT)			
208	K20	1	601286297		FEEDER CABLE ASSY (30"" 4/0)			8
209	K36	1	601326176		FEEDER CABLE ASSY (16"" 2/0)			9
210	K37	1	601326184		FEEDER CABLE ASSY (20"" 2/0)			9
211	K38	1	601326192		FEEDER CABLE ASSY (27"" 2/0)			9
212	K39	1	601326200		FEEDER CABLE ASSY (33"" 2/0)			9

STOCKLIST

ITEM	LIST	QTY/LIST	IDENTIFICATION NO. COMCODE	IDENTIFICATION NO. DRAWING	DESCRIPTION	REF	NOTE SYM	NOTE NO
213	K40	1	601326218		FEEDER CABLE ASSY (38"" 2/0)			9
214	K41	1	601337645		FEEDER CABLE ASSY (34"" 4/0)			8
215	KB	1	846809572		SUPPORT			
216	KB	1	846809580		COVER			
218	A	3	997244033		SNAP BUSHING SB-875-11			
	B	5			(HEYCO)			
219	A,B	3	402969414		BUSHING,CHASE-842AL			
220	A,B	3	405668088		PLUG 2703 (HEYCO)			
221	K3	6	901240895		SCREW SEM 10-32X1/2 HEX			
	1,2,15	14						
	16	14						
222	A,B	2	845144070		SCR PPHM #10-32X3/8 W/LKW			
223	32,33,34	2	841064876		10-32X3/8 SCR, HHSW			
	A,B	8						
224	20	2	801085119		SCREW, HH .375-16 X 3/4			
225	~~DLT~~		~~900375262~~		~~SCR HHS #10-32X1/2 TD ROL~~		DLT	5
226	1,2,15	4	840026827		SCR,HHSWT			
	16	4						
227	1,2,3	4	840059083		SCR PHM #8-32X1/2 289A			
	15,16	4						
228	1,2,3	2	900762642		SCREW, HHW .250-20 X 3/4			
	15,16	2						
229	10,11,17	6	840057640		SCR, HHWM			
	18	6						
	1,2,15	12						
	16	12						
230	35	4	804227932		SCREW, HHC .250-20 X 1.25			34
231	2,16	4	801601279		SCREW .312-18 X 1.00			
232	31,32,33	1	801472846		P147284 HHC .375-16X1.25			
	34	1						
	1,15	8						
	2,16	12						
233	KA	4	901078717		SCR, HHSWT			
	10,11,17	8						
	18	8						
	K3	16						
	K1,3	24						
	1,15	76						
	2,16	77						
234	1,2,15	6	801273129		.375-16 X 1 SCR, HHC			
	16	6						
235	1,2,15	2	802101790		SCREW, HHC CAP .312-18 X			
	16	2			1-1/2			

LINEAGE 2000 ECS BATTERY PLANT

MATRIX VERSION 28

LUCENT TECHNOLOGIES	DJ	J85500G-2	SHEET D2	ISSUE 28	DWG SIZE B

STOCKLIST

ITEM	LIST	QTY/ LIST	IDENTIFICATION NO. COMCODE	IDENTIFICATION NO. DRAWING	DESCRIPTION	REF	NOTE SYM	NOTE NO
237	36	2	801098963		WASHER 289A			34
	10,11,17	4						
	18	4						
	1,2,15	8						
	16,35	8						
238	1,2,3	2	802841577		WASHER FLAT 1/4			
	15,16	2						
239	31,32,33	2	814251898		.375 WASHER, FLAT			
	34	2						
	1,15	24						
	2,16	28						
240	10,11,17	4	814251880		WASHER 289A			
	18	4						
	1,15	20						
	2,16	28						
241	2,16	3	814251864		WSHR-P42E186			
242	20	2	802841635		WSHR FLT 3/8			
245	36	2	803690668		WASHER, LK			
	10,11,17	10						
	18	10						
	1,2,15	20						
	16	20						
246	1,2,3	2	801829557		LKWR .250 HVY			
	15,16	2						
248	31,32,33	1	801829607		WASHER, LOCK .375 E-D			
	34	1						
	1,15	12						
	2,16	14						
249	10,11,17	4	802986273		WASHER, LK			
	18	4						
	1,15	16						
	2,16	20						
250	1,2,15	4	802106740		WASHER, LK			
	16	4						
252	A,B	3	400847521		LOCKNUT 141 1/2 CNDT			
253	10,11,17	4	802207563		NUT .250-20 HEX			
	18	4						
	1,2,15	8						
	16	8						
254	31,32,33	1	841064777		NUT 3/8			
	34	1						
	1,15	12						
	2,16	14						
255	10,11,17	4	841064769		NUT, HEX			
	18	4						
	1,15	10						
	2,16	14						
256	2,16	3	997035597		NUT, HEX .190-32 E/W STRWSHR			
257	A,B	27	900732488		NUT, HEX #8-32 LKWR			
263	1,2,15	1	901181834		WRENCH, ALLEN			
	16	1						
264	1,2,15	2	901125120		CABLE TIE CLAMP			
	16	2						
269	1,2,15	8	401897350		PLATE FCPI2-C20 (PANDUIT)			

STOCKLIST

ITEM	LIST	QTY/ LIST	IDENTIFICATION NO. COMCODE	IDENTIFICATION NO. DRAWING	DESCRIPTION	REF	NOTE SYM	NOTE NO
	16	8						
270	1,2,15	6	401896402		PLATE, FCB12-C20			
	16	6						
272	~~DLT~~		~~847137445~~		~~ASSY TOP J85500G2 ECS BA~~		S	87
275	KD	1	846789386		ASSEMBLY (DOOR)			
276	KD	2	401384904		RETAINER, 82-32-101-20			
					(SOUTHCO)			
277	KD	1	846579621		BRACKET			
278	KD	2	900229352		WASHER, 82-46-101-41			
					(SOUTHCO)			
279	~~DLT~~		~~406480624~~		~~STUD, 82-16-260-16~~			
	KD	2			(SOUTHCO)			
290	36	2	801331026		SCREW, HH CAP .250-20 X 7/8			
291	K5	1	848232765		35' THERMAL COMP. KIT			
					EXT. CABLE			
292	K6	1	847757796		BUS BAR RECTIFIER			
					NEGATIVE			
293	K6	1	847757788		BUS BAR RECTIFIER			
					POSITIVE			

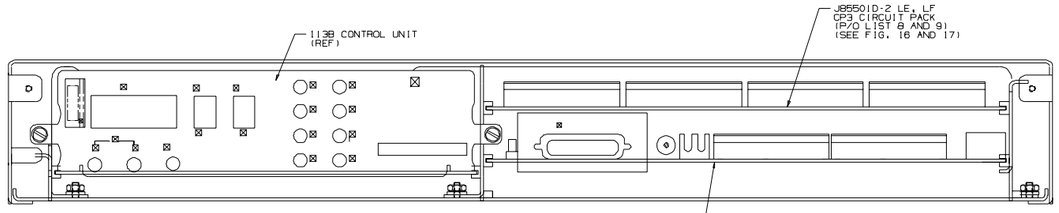
STOCKLIST

ITEM	LIST	QTY/ LIST	IDENTIFICATION NO. COMCODE	IDENTIFICATION NO. DRAWING	DESCRIPTION	REF	NOTE SYM	NOTE NO

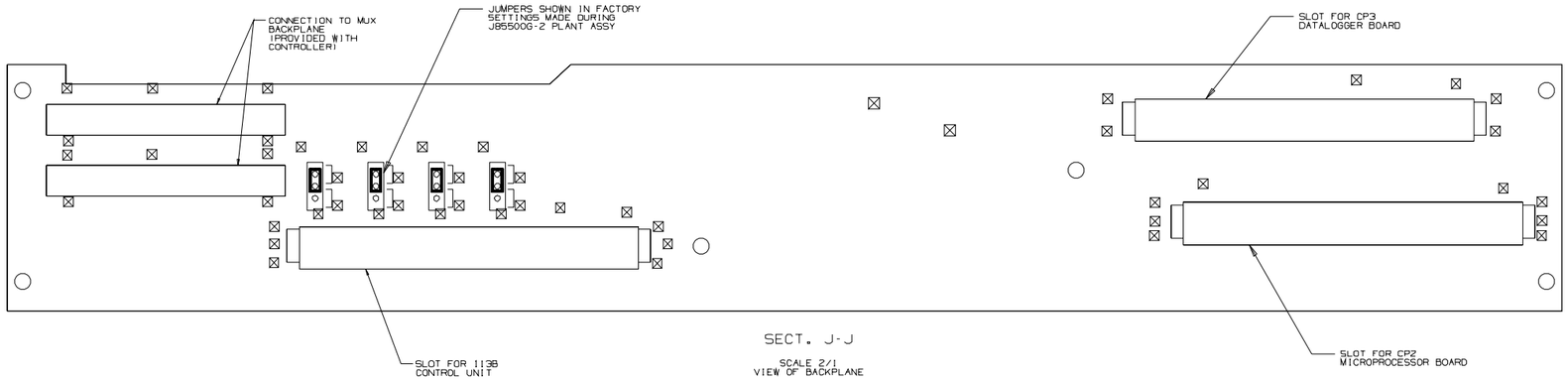
LINEAGE 2000 ECS BATTERY PLANT

MATRIX VERSION 28

LUCENT TECHNOLOGIES	DJ	J85500G-2	SHEET D3	ISSUE 28	DWG SIZE B



SECT. H-H
(FRONT VIEW OF J85501D-2 CONTROLLER)
(COVER REMOVED)
SCALE: 1/1



SECT. J-J
SCALE 2/1
VIEW OF BACKPLANE

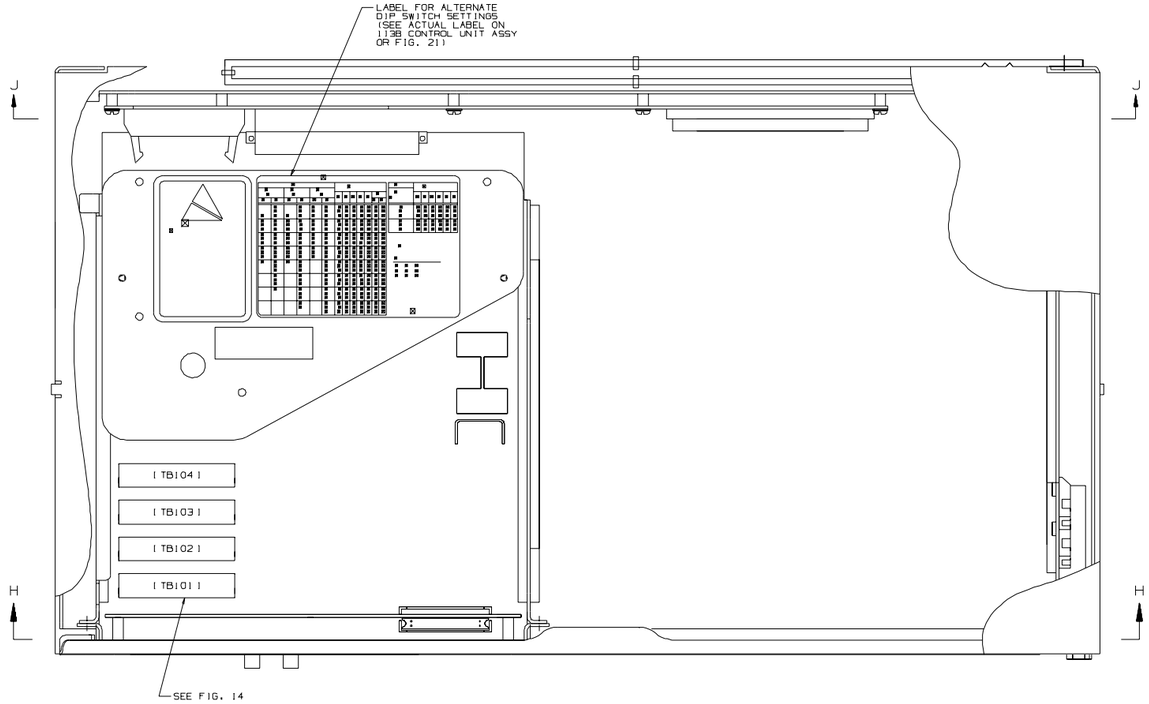


FIG. 13
TOP VIEW OF CONTROLLER
(ENCLOSURE REMOVED)
(SEE NOTE 17)
SCALE: 1/1

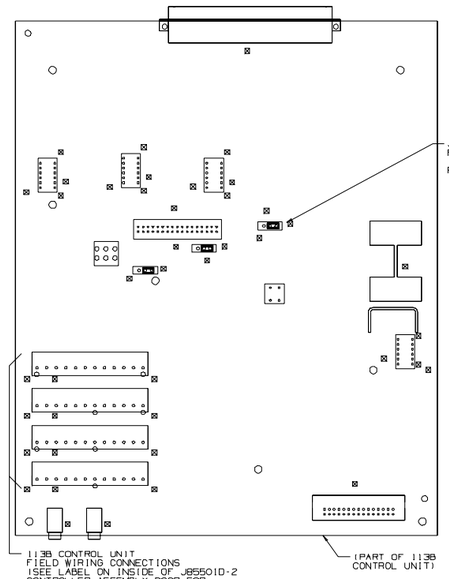


FIG. 14
(SEE NOTE 10)
SCALE: 1/2

LINEAGE 2000 ECS BATTERY PLANT				
		SHEET	ISSUE	DWG SIZE
LUCENT TECHNOLOGIES	DJ J85500G-2	F1	19	C3

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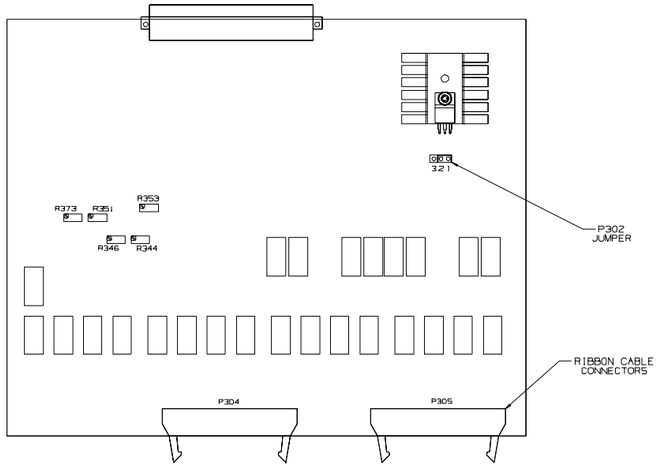

FIG. 17
SCALE: 1/1
VIEW OF CP3
(PART OF LIST 9)

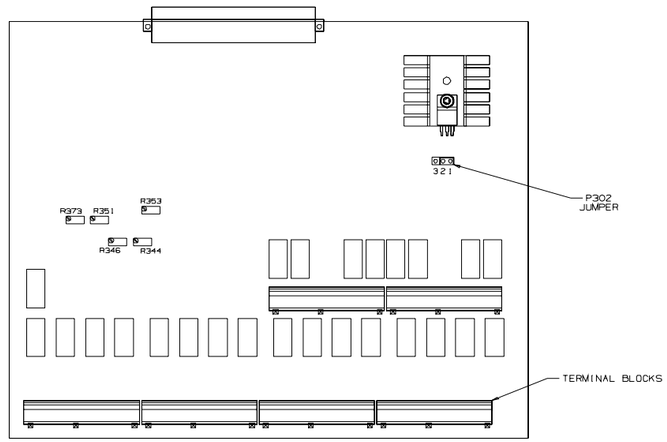

FIG. 16
SCALE: 1/1
VIEW OF CP3
(PART OF LIST 8)

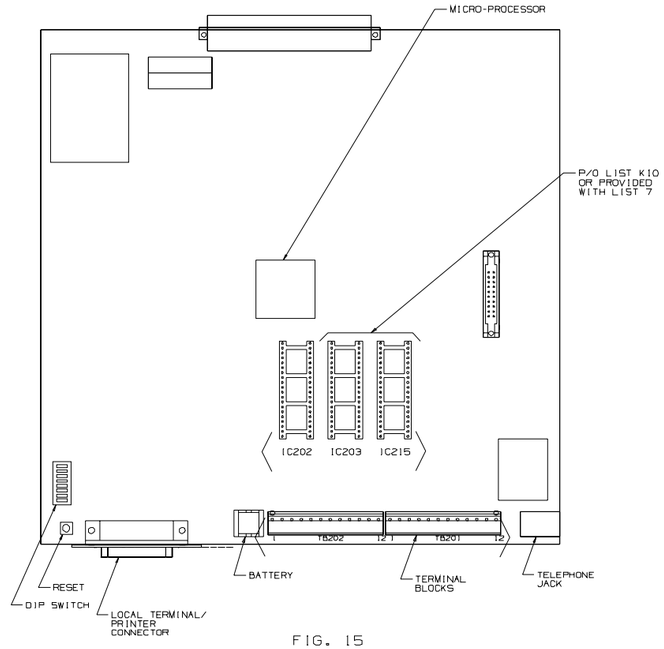

FIG. 15
SCALE: 1/1
VIEW OF CP2
(PART OF LIST 5 AND 7)

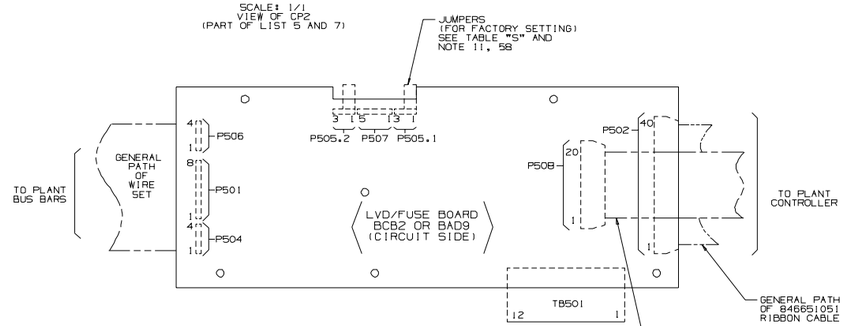

FIG.20
LVD/FUSE BOARD
(CP5)
SCALE 1/1
P/O ED83248-30 PANEL

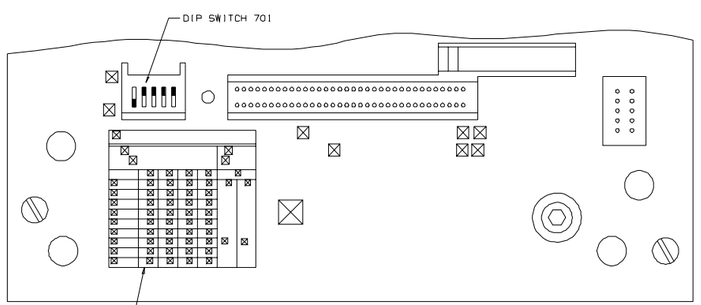

FIG. 18
(SEE NOTE 18)
SCALE: 2/1

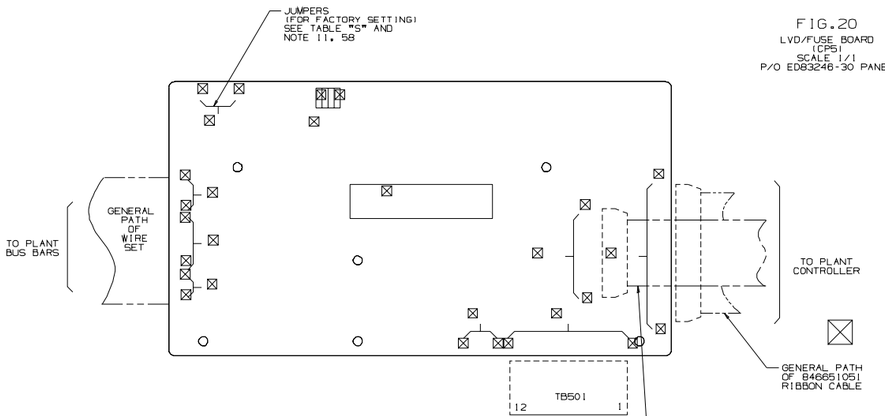

FIG.20A
LVD/FUSE/THERMAL COMPENSATION BOARD
(CP5)
SCALE 1/1
P/O ED83248-30 PANEL

LINEAGE 2000 ECS BATTERY PLANT

LUCENT TECH.	DJ	J85500G-2	SHEET F2	ISSUE 18	DWG SIZE C3

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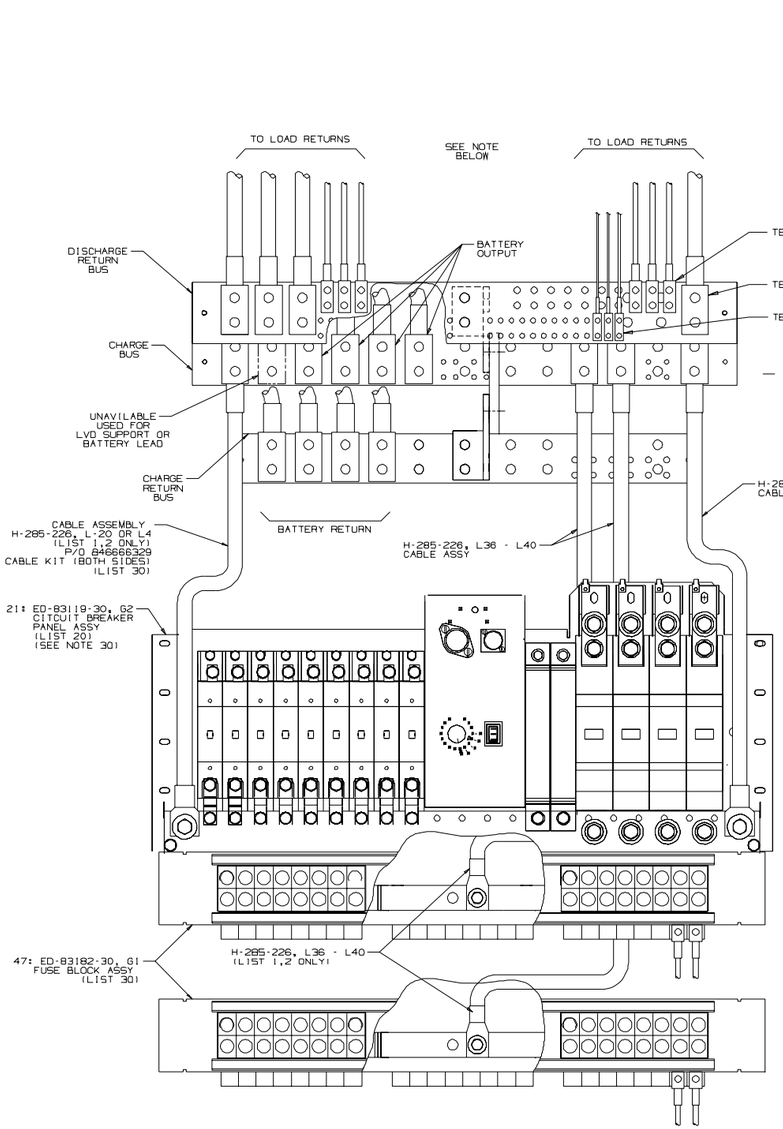
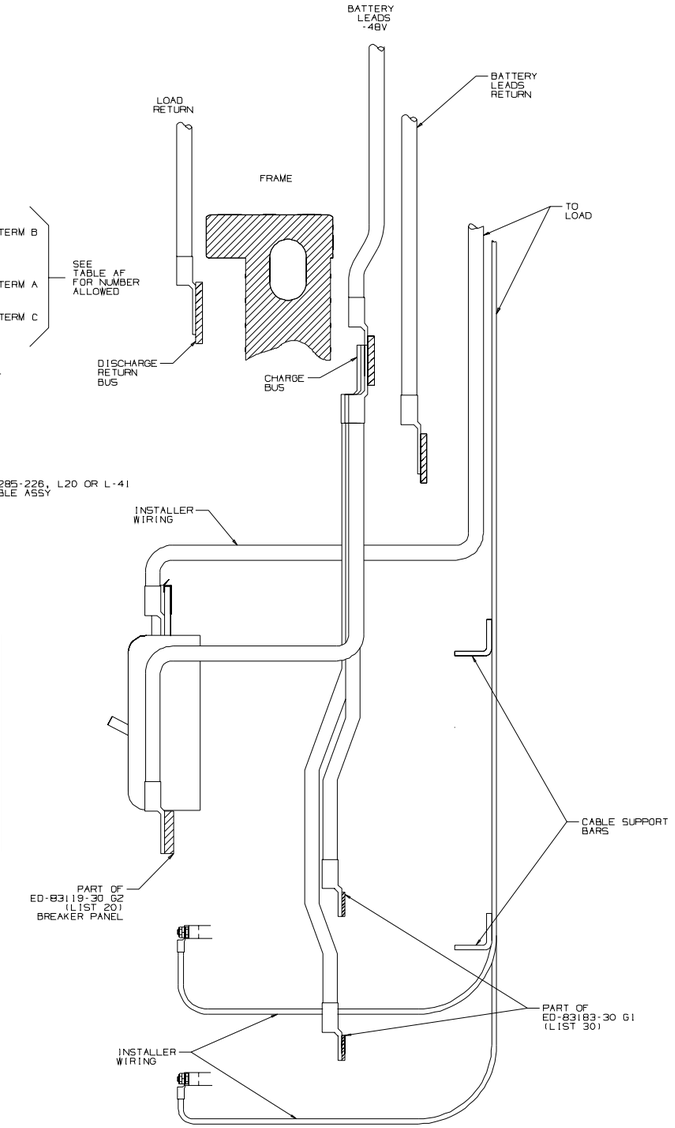


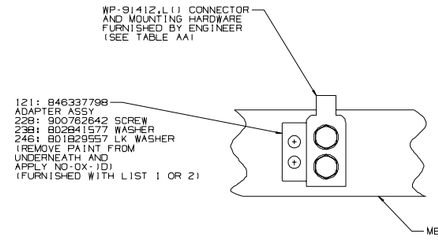
FRONT VIEW



SIDE VIEW

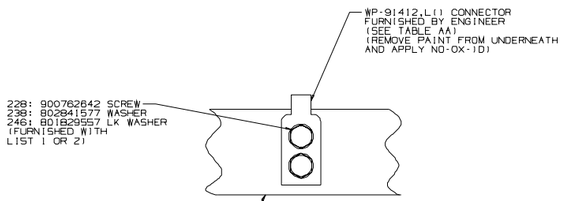
FIG.22
CHARGE AND DISCHARGE BUS BARS
(SEE NOTES 15,93)
NO SCALE

NOTE: AVAILABILITY OF LUG POSITIONS WILL BE AFFECTED BY VARIOUS CABLE PLANS. THE ENGINEER/ INSTALLER SHALL VERIFY THE AVAILABILITY OF LUG POSITIONS BEFORE FINALIZING ANY PARTICULAR CABLE PLAN.



METHOD FOR GROUNDING FRAME WITH 1/0,2/0 OR 4/0 GAUGE WIRE

SCALE: NONE



METHOD FOR GROUNDING FRAME WITH 4,6, OR 2 GA. WIRE
SCALE: NONE

SECT W-W

(INSTALLER INFORMATION)

LINEAGE 2000 ECS BATTERY PLANT

	SHEET	ISSUE	DWG SIZE
LUCENT TECHNOLOGIES DJ J855006-2	F3	19	C3

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NOTE: THE PICTORIAL REPRESENTATIONS SHOWN BELOW ARE FOR REFERENCE ONLY. ITEMS CALLED OUT, HOWEVER, MUST BE OBSERVED.

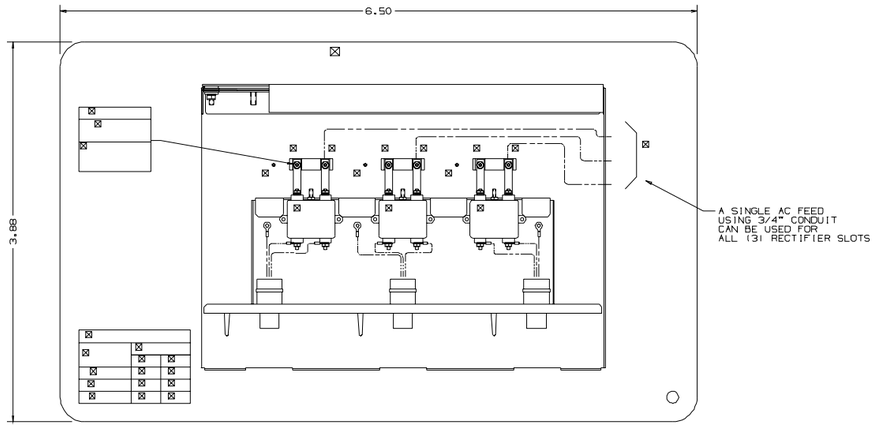
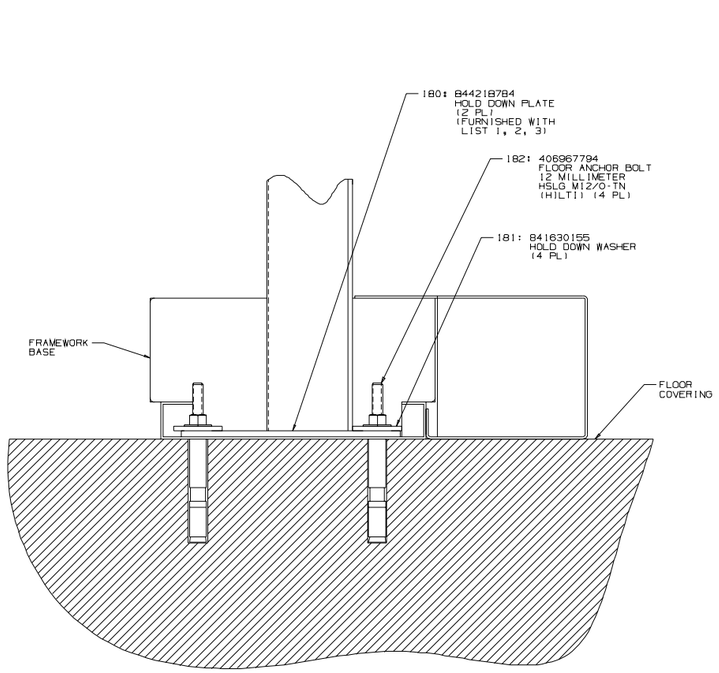
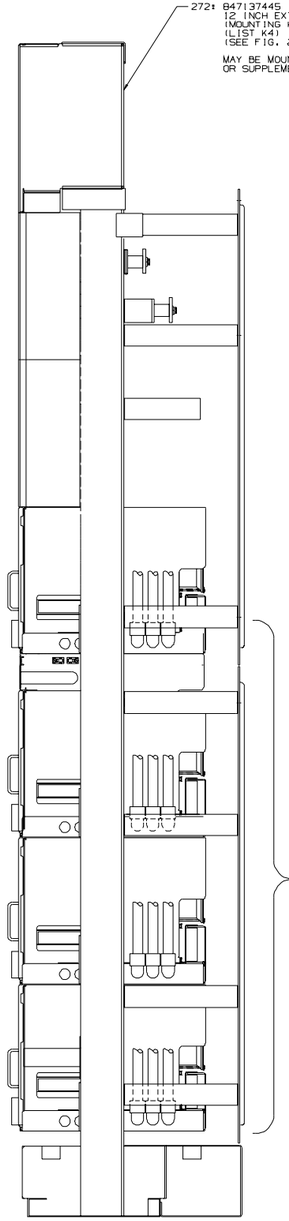


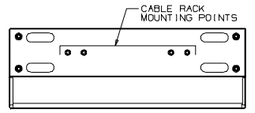
FIG. 19
(SEE NOTE 16)
SCALE: 2/1
(USE RIGHT AC FEED ONLY)



SECT. K-K
(INTEGRATED GROUND ATTACHMENT)
SCALE 1/2



RIGHT SIDE VIEW
SUGGESTED AC CABLE ROUTING



SECT. L-L
SCALE: 3/16

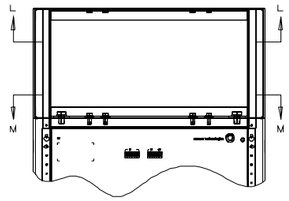
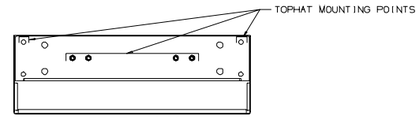


FIG. 23
LIST K4



SECT. M-M
SCALE: 3/16

LINEAGE 2000 ECS BATTERY PLANT

LUCENT TECHNOLOGIES	DJ	J85500G-2	SHEET F4	ISSUE 19	DWG SIZE C3

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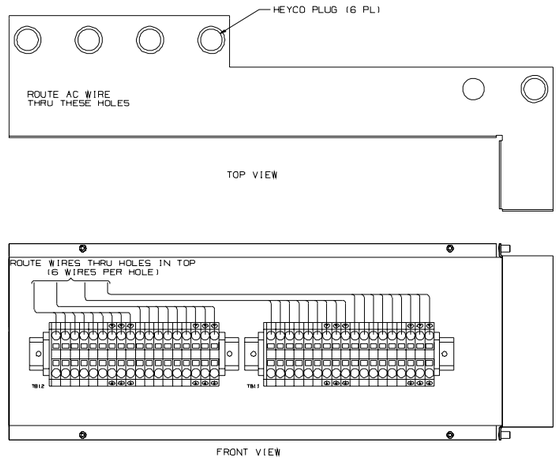
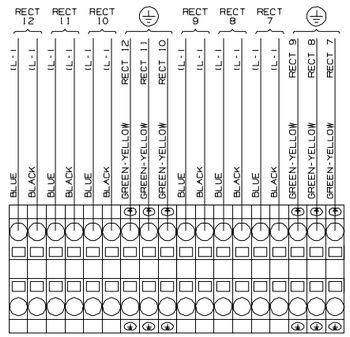


FIG. 26
AC ROUTING

ALL AC WIRING IS DONE IN THIS AC BOX.
USE 10 GAUGE WIRE. FIVE (5) HOLES HAVE
KNOCKOUTS FOR 3/4" CONDUIT. REMOVE
APPROPRIATE NUMBER OF HEYCO PLUGS. STRIP
EACH WIRE 1/2" AND INSERT INTO APPROPRIATE POSITION.
REPLACE COVER WHEN AC WIRING IS COMPLETED.
(SEE FIGURES 27, 28 & 29)



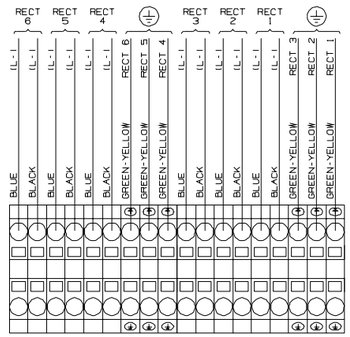
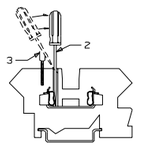


FIG. 27
AC WIRING SCHEME



TO INSTALL WIRE:
1. STRIP WIRE TO 1/2" →
2. INSERT SCREW DRIVER INTO SLOT, APPLYING ENOUGH PRESSURE TO OPEN HOLE FOR WIRE.
3. INSERT WIRE
4. REMOVE SCREW DRIVER

FIG. 28
WIRE INSTALLATION

RECOMMENDED AC FITTINGS				
CABLE TYPE	3/4" FITTING	COMCODE	1/2" FITTING	COMCODE
FLEXIBLE	2535 (T & B)	405217340	2525 (T & B)	405415902
ARMORED	3115 (T & B)	401004569	3112 (T & B)	401111992
CONDUIT	8223 (T & B)	997104575	8121 (T & B)	997652474

FIG. 29

LINEAGE 2000 ECS BATTERY PLANT

LUCENT TECHNOLOGIES	DJ	J85500G-2	SHEET F5	ISSUE 19	DWG SIZE C3

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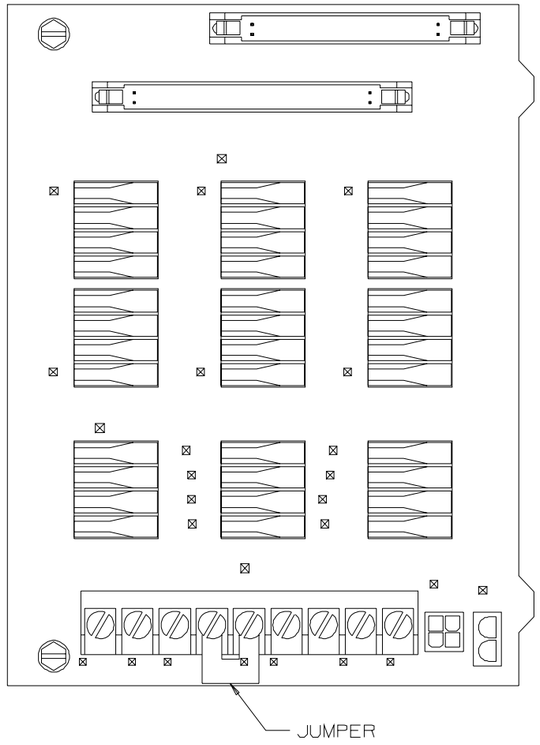
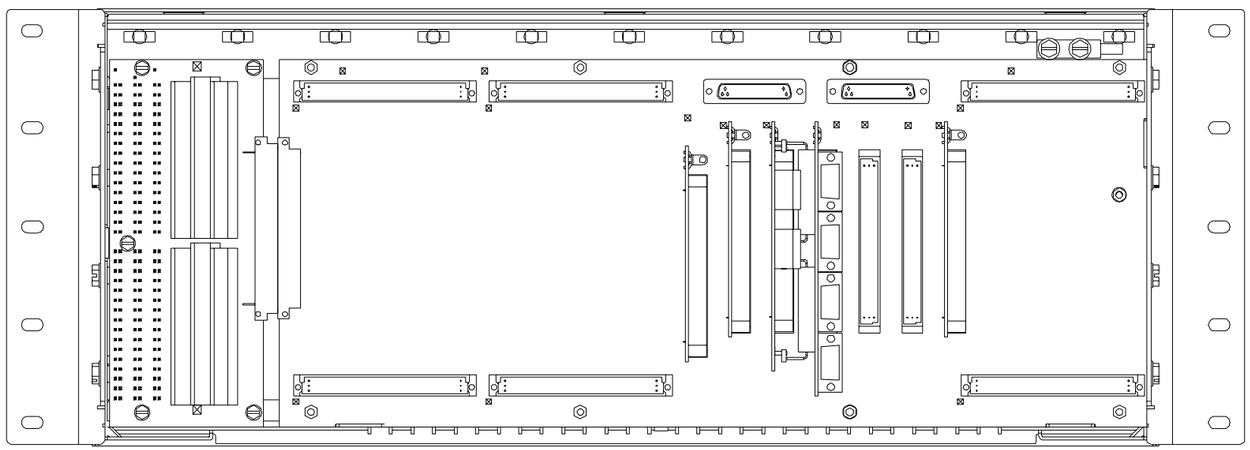


A-CP/BJF1 FUSE BOARD, NEG
(LOCATED BEHIND FRONT DOOR ON RIGHT SIDE)
SCALE: 2:1



J85501F-1 GALAXY CONTROLLER
(REAR VIEW)
SCALE: 1:1

LINEAGE 2000 ECS BATTERY PLANT				
		SHEET	ISSUE	DWG SIZE
LUCENT TECHNOLOGIES	DJ J85500G-2	F6	18	C3

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FLOOR PLAN DATA:

INITIAL BAY (LIST 1 OR 2)

PHYSICAL DATA (SEE NOTE 2)	
HEIGHT:	7' - 0"
DEPTH:	1' - 6 1/2"
WIDTH:	2' - 2" (W/O END COVERS)
WEIGHT:	600 LBS (W/ 12 RECTIFIERS)
FRAMEWORK TYPE:	7' - 0" CENTRAL OFFICE UNIFRAME
MIN. FRONT AISLE:	2' - 6"
MIN. REAR AISLE:	2' - 0" (SEE NOTE 3)
HEAT RELEASE (SEE NOTE 1)	
FULL LOAD:	5750 WATTS
HALF LOAD:	2888 WATTS

SUPPLEMENTARY BAY (LIST 3)

PHYSICAL DATA (SEE NOTE 2)	
SAME AS INITIAL BAY EXCEPT:	
WEIGHT:	350 LBS (W/ 6 RECTIFIERS)
HEAT RELEASE (SEE NOTE 1)	
FULL LOAD:	2862 WATTS
HALF LOAD:	1431 WATTS

NOTES:

1. HEAT RELEASE VALUES ARE GIVEN FOR ECS BATTERY PLANTS (LIST 1 OR 2) EQUIPPED WITH TWELVE SWITCH MODE RECTIFIERS OR (LIST 3) EQUIPPED WITH SIX SWITCH MODE RECTIFIERS AT 54 VOLTS DC AND 85% EFFICIENCY. TO CALCULATE HEAT RELEASE VALUES FOR ECS BATTERY PLANTS EQUIPPED WITH LESS RECTIFIERS, DERATE THE LOAD NUMBERS PROPORTIONATELY.

2. THE FLOOR LOAD FOR THE BAY IS LISTED BELOW AND IS COMPUTED BY AVERAGING THE LOAD OVER THE FLOOR AREA SHOWN IN FIGURE T.

   SPECIAL PRECAUTIONS (SUCH AS INCREASING AISLE WIDTHS OR SPACE FROM ADJACENT EQUIPMENT) MUST BE TAKEN TO INSURE THAT THIS EQUIPMENT DOES NOT OVERLOAD THE FLOOR ON WHICH IT IS USED.

FLOOR LOAD (LB/FT^2) = LOAD (LB) / FLOOR AREA (FT^2)			
PLANT TYPE	AREA	LOAD	FLOOR LOAD
INITIAL BAY	3.34	600	180
SUPPLEMENTARY BAY	3.34	350	105

3. WHEN NO REAR AISLE IS REQUIRED, THE BACK OF THE FRAME (WHICH INCLUDES REAR BRACKETS) CAN BE MOUNTED FLUSH AGAINST THE WALL, STILL LEAVING THE REQUIRED 3 INCHES BETWEEN THE REAR OF THE RECTIFIER AND THE WALL.

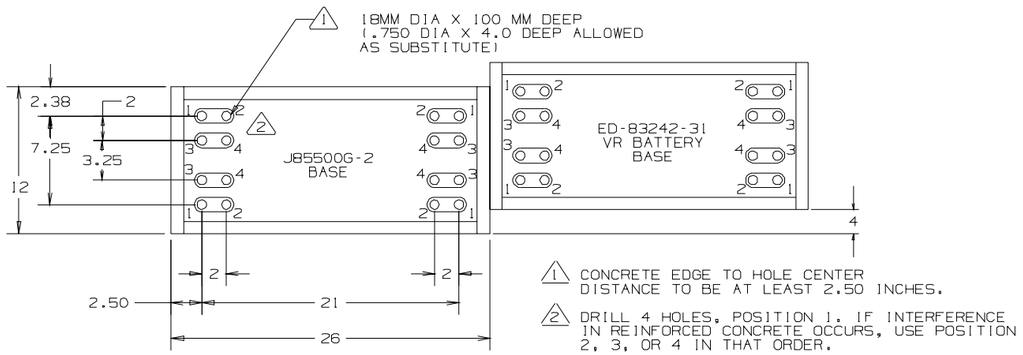
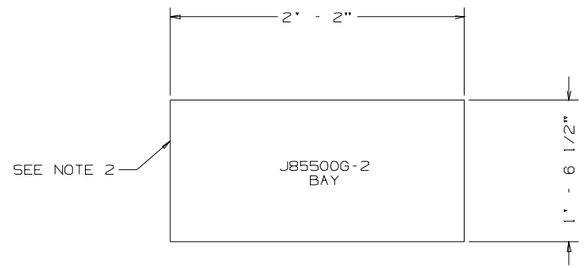


FIG. U
NO SCALE
FLOOR TEMPLATE FOR J85500G-2 MOUNTED FRONT FLUSH WITH VR BATTERIES (ED-83242-31)
(LOCATE VR BATTERY BAY 4" BACK FROM J85500G-2 BAY)



FRAME OUTLINE
(INCLUDES BRACKETS AND MOUNTED HARDWARE)
(AREA USED FOR FLOOR LOAD CALCULATIONS)

FIG. T
NO SCALE

LINEAGE 2000 ECS BATTERY PLANT

LUCENT TECHNOLOGIES	DJ	J85500G-2	SHEET G1	ISSUE 19	DWG SIZE C3

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