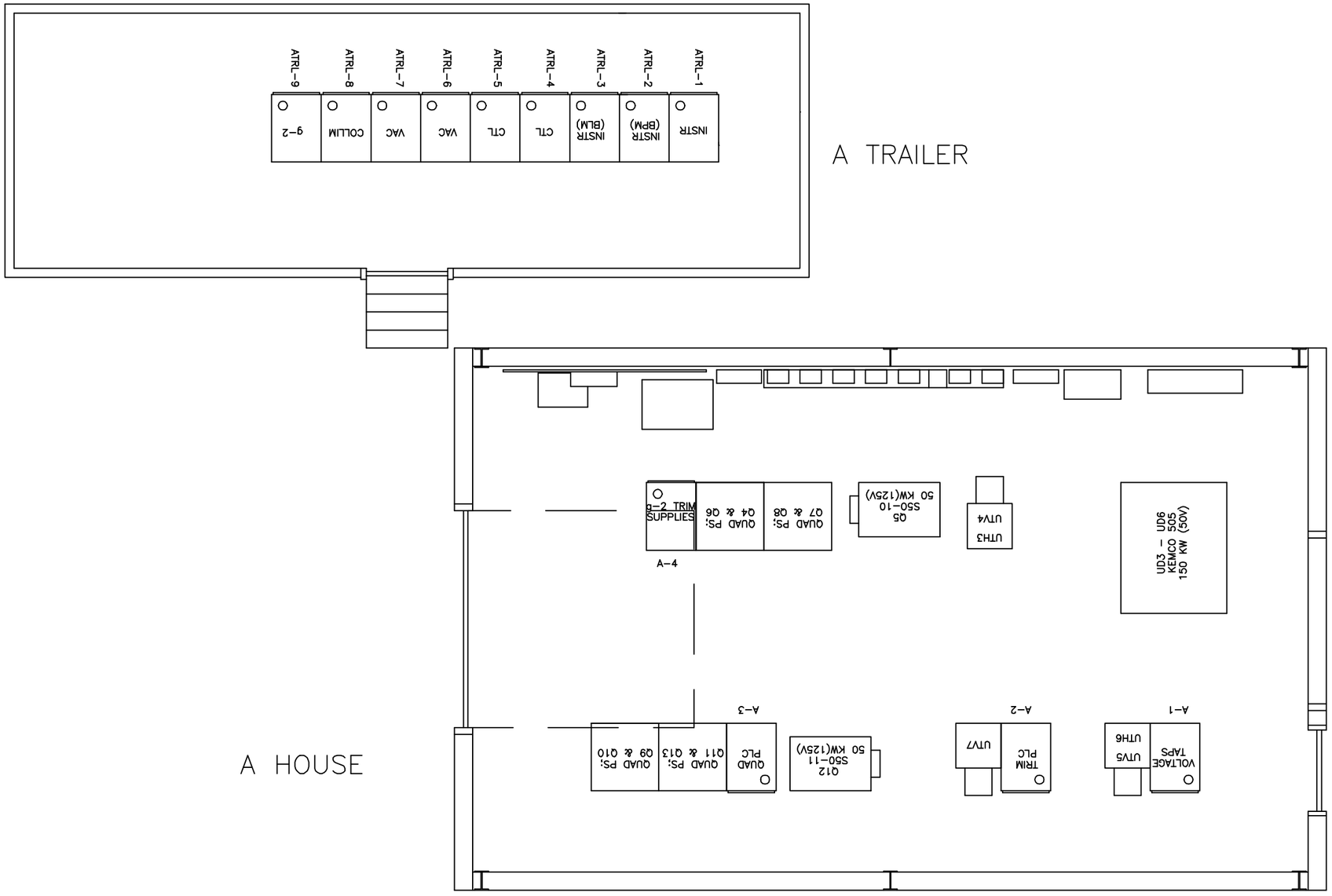
REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

ACS, BNL 11/18/99 4:16 PM 8748.dwg



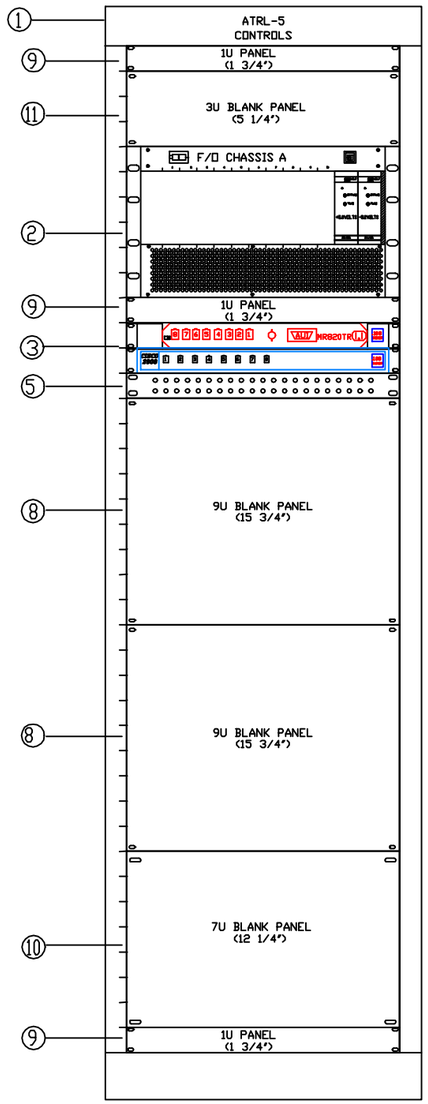
-3	-2	-1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO.,BNL NO.
QTY REQD						

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.24M-1989	Q.A. CATEGORY A-3	DATE	BROOKHAVEN NATIONAL LABORATORY
	DRAWN BY Ed Koropsak	11/18/99	UPTON, N.Y. 11973
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	CHECKED BY		C-A CONTROLS
DECIMAL TOLERANCES .X ±.030 .XX ±.015 .XXX ±.005 ANGULAR TOLERANCE ± .5°	DESIGN APPROVAL		A HOUSE
	ENGINEER APPROVAL R. MICHNOFF	11/18/99	FLOOR PLAN
	SUPVR. APPROVAL		SIZE D — DRAWING NUMBER 94028748 — REV. A
OUTSTANDING ECN — NA FINISH — BREAK SHARP EDGES MAX. XX MIN. XX	NEXT ASSEMBLY		MATERIAL: ——— SCALE: NA WEIGHT: – SHEET 1 OF 1

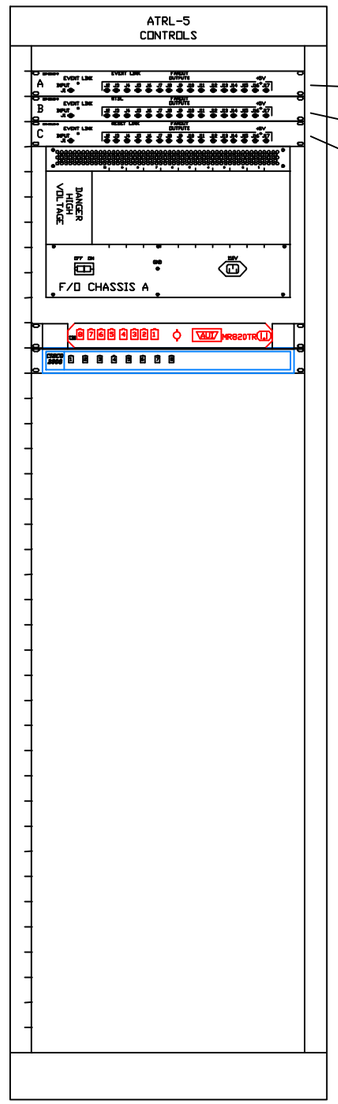
1 *AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

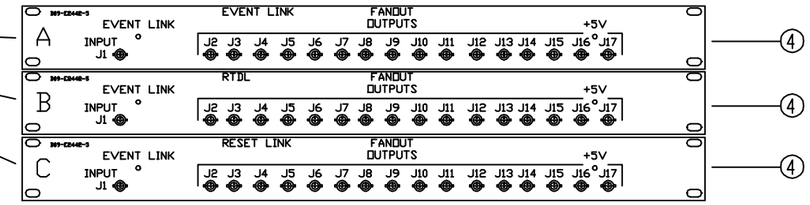
ACS, BNL 11/18/99 4:17 PM8749.dwg



FRONT VIEW



REAR VIEW



-3	-2	-1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO./BNL NO.
		0	N/A	13	5U x 19" BLANK PANEL (PREMIER METAL ARP-819-553)	X
		0	N/A	12	4U x 19" BLANK PANEL (PREMIER METAL ARP-719-553)	X
		1	N/A	11	3U x 19" BLANK PANEL (PREMIER METAL ARP-519-553)	X
		1	N/A	10	7U x 19" BLANK PANEL (PREMIER METAL ARP-1119-553)	X
		3	N/A	9	1U x 19" BLANK PANEL (PREMIER METAL ARP-119-553)	X
		2	N/A	8	9U x 19" BLANK PANEL (PREMIER METAL ARP-1519-553)	X
		-		7		
		AR	PANELS	6	10-32 x 1/2" BINDING HEAD MACHINE SCREWS	T-32276
		1	N/A	5	GROMMET PANEL	X
		3	A,B,C	4	FANOUT ASSEMBLY	D09-E2442
		1	N/A	3	NETWORK HARDWARE	X
		1	N/A	2	F/O CHASSIS A	94028750
		1	N/A	1	19" RACK, 70"H RACK SPACE	X

QTY REQD

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.24M-1989

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

DECIMAL TOLERANCES
.X ±.030
.XX ±.015
.XXX ±.005
ANGULAR TOLERANCE
± .5°

NA FINISH

BREAK SHARP EDGES
MAX. XX MIN. XX

OUTSTANDING ECN

Q.A. CATEGORY A-3		DATE
DRAWN BY	Ed Koropsak	11/2/99
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL	R. MICHNOFF	11/2/99
SUPVR. APPROVAL		

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973

C-A CONTROLS

A TRAILER

RACK ATRL-5 ASSEMBLY

SIZE D

94028749

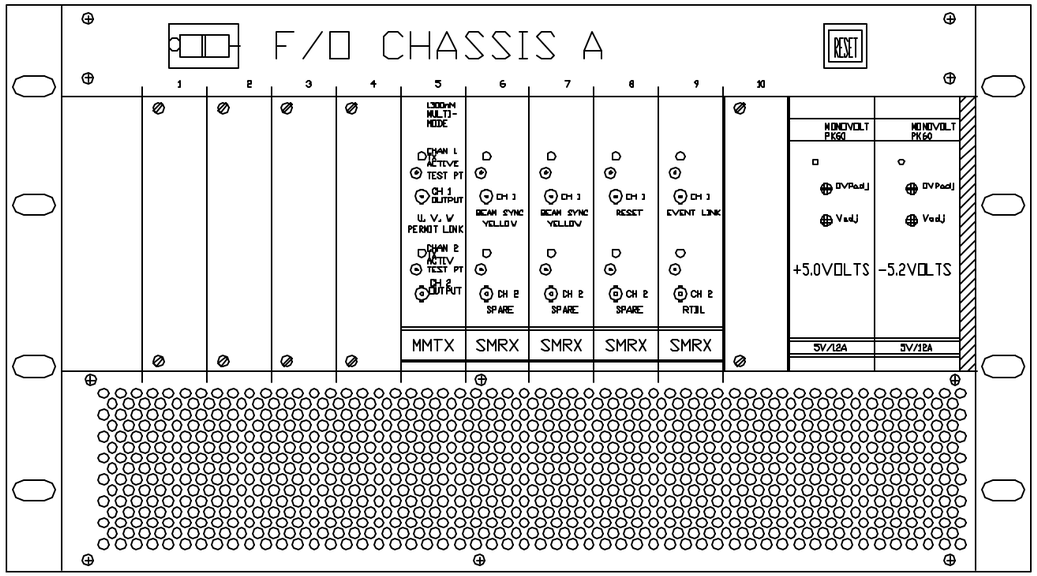
DRAWING NUMBER

REV. A

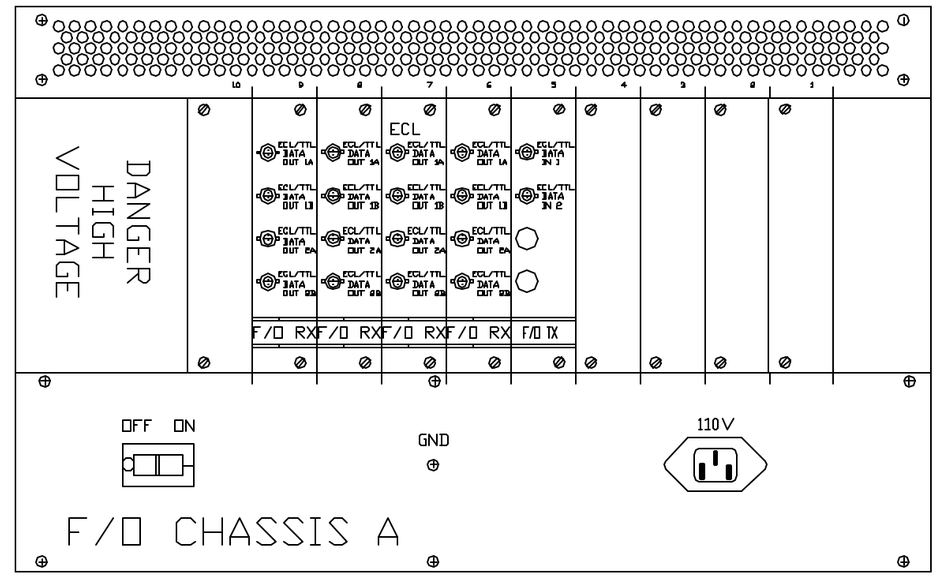
MATERIAL: ——— SCALE: NA WEIGHT: – SHEET 1 OF 1

*AUTOCAD

BNL, BNL 4/10/00 1:20 PM 8750.dwg



FRONT VIEW



REAR VIEW

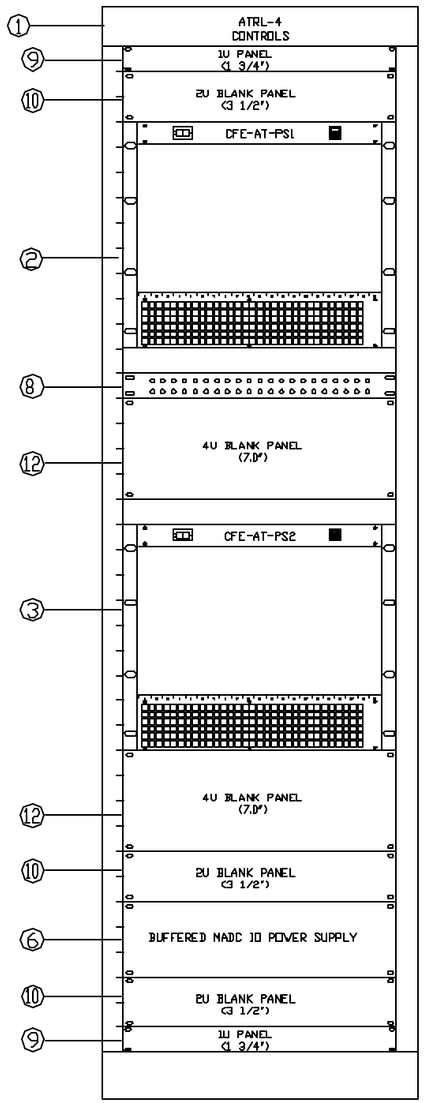
REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

-3	-2	-1	REF DESIGNATOR	ITEM NO	DESCRIPTION	MAT'L IMM NO./BNL NO.
		1	SLOT 5	9	3U FIBER OPTIC TRANSMITTER TRANSISTION MODULE, TTL	D09-E2495-3
		1	SLOT 5	8	3U FIBER OPTIC TRANSMITTER MODULE, MULTIMODE	94028168
		1	SLOT 7	7	3U FIBER OPTIC RECEIVER TRANSISTION MODULE, ECL	D09-E2541-3
		14	ALL UNUSED	6	3U x 6HP BLANK PANEL (ELECTRO-SPACE ESFE-3032)	X
		3	SLOT 6,8,9	5	3U FIBER OPTIC RECEIVER TRANSITION MODULE, TTL	D09-E2542-3
		4	SLOT 6-9	4	3U FIBER OPTIC RECEIVER MODULE, MULTIMODE/SINGLEMODE	94028101
				3		
				2		
		1	N/A	1	3U FIBER OPTIC CHASSIS	94028261

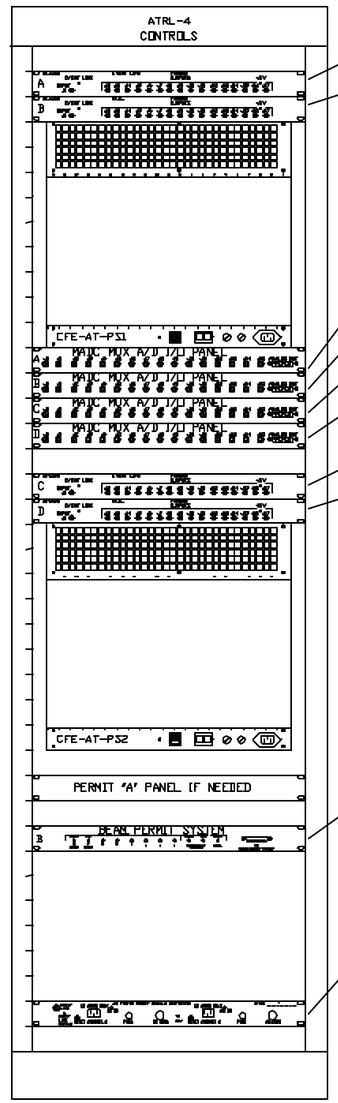
INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.24M-1989	QA CATEGORY A-3	DATE	BROOKHAVEN NATIONAL LABORATORY
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DRAWN BY Ed Koropsak	11/2/99	UPTON, N.Y. 11973
DECIMAL TOLERANCES .X ±.030 .XX ±.015 .XXX ±.005 ANGULAR TOLERANCE ± .5°	CHECKED BY		C-A CONTROLS
	DESIGN APPROVAL		A TRAILER, RACK ATRL5
	ENGINEER APPROVAL R MICHNOFF	11/2/99	F/O CHASSIS A ASSY.
	SUPVR. APPROVAL		SIZE D — 94028750 — REV A
OUTSTANDING ECN — NA — FINISH — BREAK SHARP EDGES MAX XX MIN XX	NEXT ASSEMBLY		DRAWING NUMBER
			MATERIAL — SCALE NA — WEIGHT: - — SHEET 1 OF 1

1 *AUTOCAD

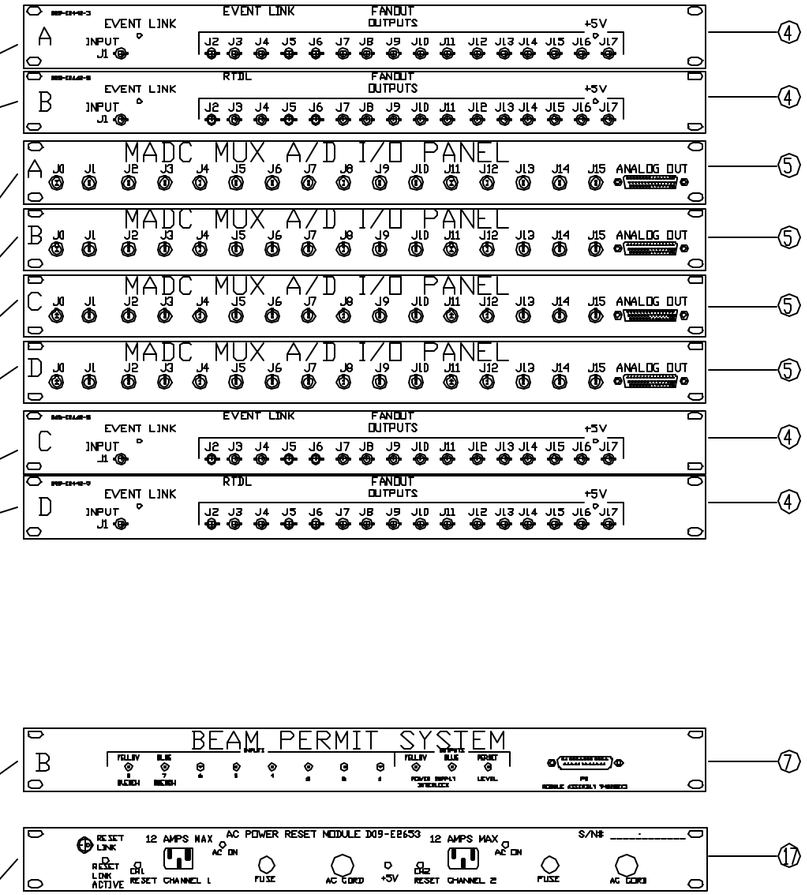
BNL, BNL 4/10/00 1:30 PM 8751.dwg



FRONT VIEW



REAR VIEW



REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

1	N/A	17	AC POWER RESET MODULE		D09-E2653
AR	PANELS	16	10-32 x 1/2" BINDING HEAD MACHINE SCREWS		T-32276
-		15			
0	N/A	14	9U x 19" BLANK PANEL (PREMIER METAL ARP-1519-553)		X
0	N/A	13	5U x 19" BLANK PANEL (PREMIER METAL ARP-819-553)		X
2	N/A	12	4U x 19" BLANK PANEL (PREMIER METAL ARP-719-553)		X
0	N/A	11	3U x 19" BLANK PANEL (PREMIER METAL ARP-519-553)		X
3	N/A	10	2U x 19" BLANK PANEL (PREMIER METAL ARP-319-553)		X
2	N/A	9	1U x 19" BLANK PANEL (PREMIER METAL ARP-119-553)		X
1	N/A	8	GROMMET PANEL		X
1	B	7	BEAM PERMIT SYSTEM INTERFACE PANEL		94028215
1	N/A	6	MADC BUFFERED POWER SUPPLY		
4	A-D	5	MADC A/D I/O PANEL		94028183
4	A,B,C,D	4	FANOUT ASSEMBLY		D09-E2442
1	N/A	3	VME CHASSIS CFE-AT-PS2 ASSY.		94028753
0	N/A	2	VME CHASSIS CFE-AT-PS1 ASSY.		94028752
1	N/A	1	19" RACK, 70"H RACK SPACE		X
-3 / -3 / -1	REF DESIGNATOR	ITEM NO	DESCRIPTION		MAT'L SPEC NO./BNL NO.
DIV REQD					

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14 24M-1989

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

DECIMAL TOLERANCES
.X ±.030
.XX ±.015
.XXX ±.005
ANGULAR TOLERANCE ± .5°

OUTSTANDING ECN

NA
FINISH

BREAK SHARP EDGES
MAX XX MIN XX

QA CATEGORY A-3

DRAWN BY	Ed Koropsak	11/18/99
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL	R. MICHNOFF	11/18/99
SUPVR. APPROVAL		

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973

C-A CONTROLS

A TRAILER

RACK ATRL-4 ASSEMBLY

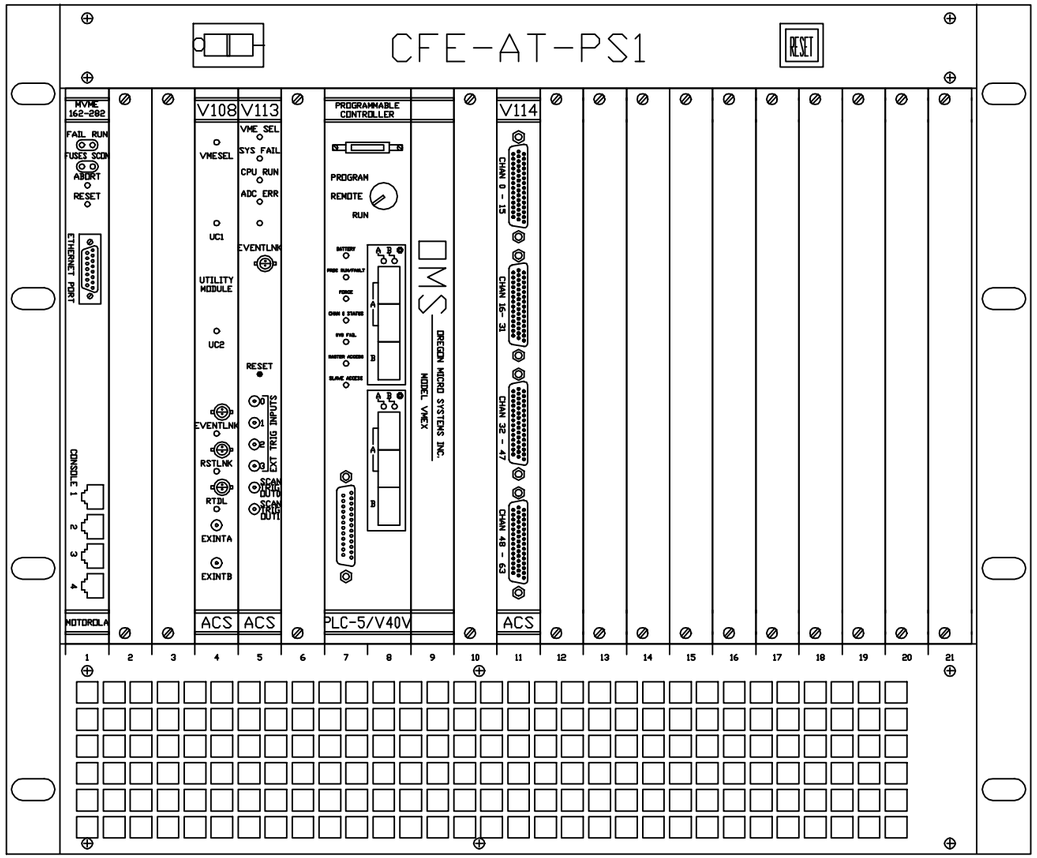
SIZE D | DRAWING NUMBER 94028751 | REV A

MATERIAL ——— | SCALE NA | WEIGHT: – | SHEET 1 OF 1

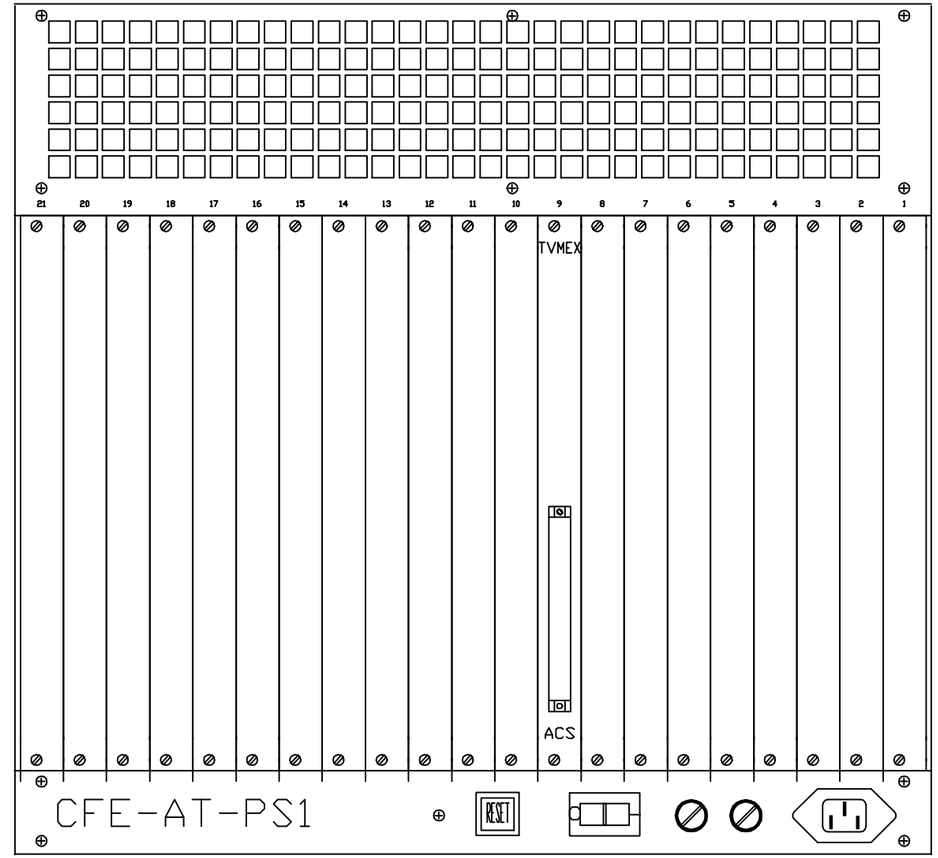
*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

ACS, BNL 11/18/99 4:23 PM 8752.dwg



FRONT VIEW



REAR VIEW

NOTE:

1. ALL UNUSED SLOTS, FRONT AND REAR

-3	-2	-1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO.,BNL NO.
		1	SLOT 9	9	TVMEX TRANSITION MODULE	94028186
		34	SEE NOTE 1	8	VME BLANK PANEL (ELECTRO-SPACE ESFE-2985)	
		1	SLOT 9	7	OMS CARD	
		1	SLOT 7-8	6	ALLEN BRADLEY PLC	PLC-5/V40V
		1	SLOT 11	5	V114 MADC A/D CONVERTER MODULE	94028226
		1	SLOT 5	4	V113 MADC CONTROLLER MODULE	94028140
		1	SLOT 4	3	V108 UTILITY MODULE	94028094
		1	SLOT 1	2	FRONT END COMPUTER	MVME 162-282
		1	N/A	1	VME CHASSIS	RHIC-93008000

QTY REQD

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.24M-1989

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

DECIMAL TOLERANCES
.X ±.030
.XX ±.015
.XXX ±.005
ANGULAR TOLERANCE
± .5°

OUTSTANDING ECN

NA FINISH

BREAK SHARP EDGES
MAX. XX MIN. XX

Q.A. CATEGORY A-3

		DATE
DRAWN BY	Ed Koropsak	11/18/99
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL	R. MICHNOFF	11/18/99
SUPVR. APPROVAL		

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973

C-A CONTROLS

A TRAILER RACK ATRL-4

VME CHASSIS CFE-AT-PS1

SIZE D

94028752 DRAWING NUMBER

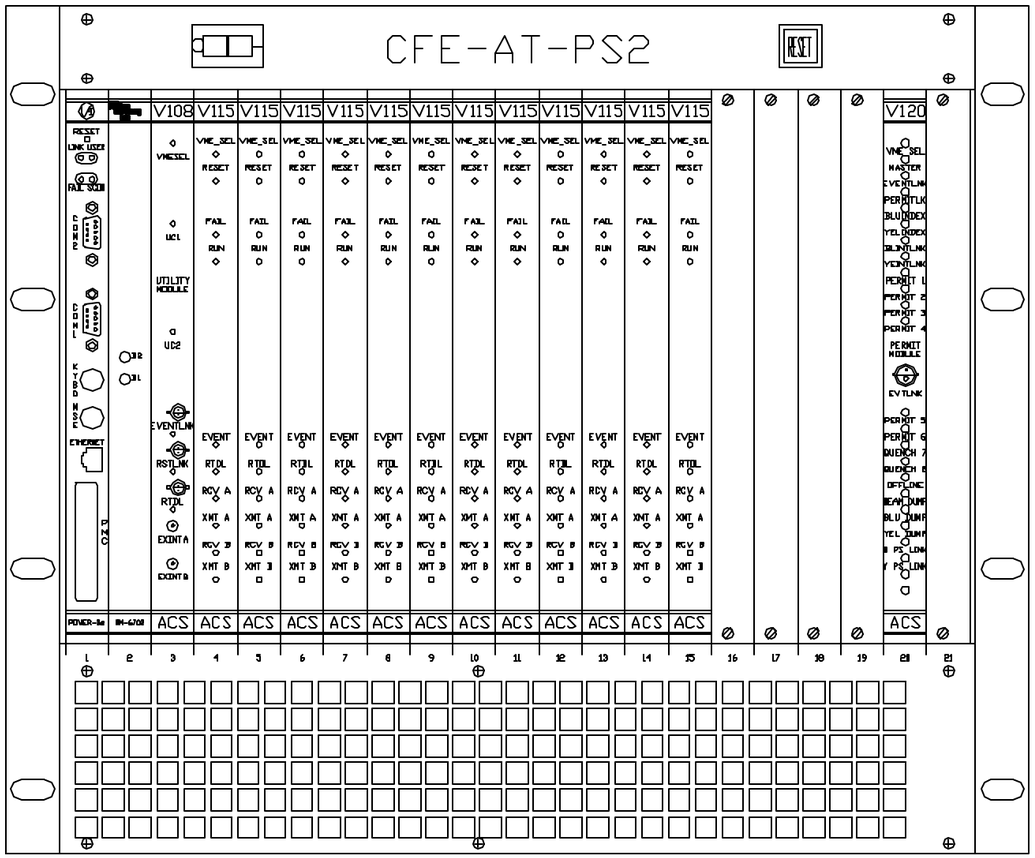
REV. A

MATERIAL: ——— SCALE: NA WEIGHT: – SHEET 1 OF 1

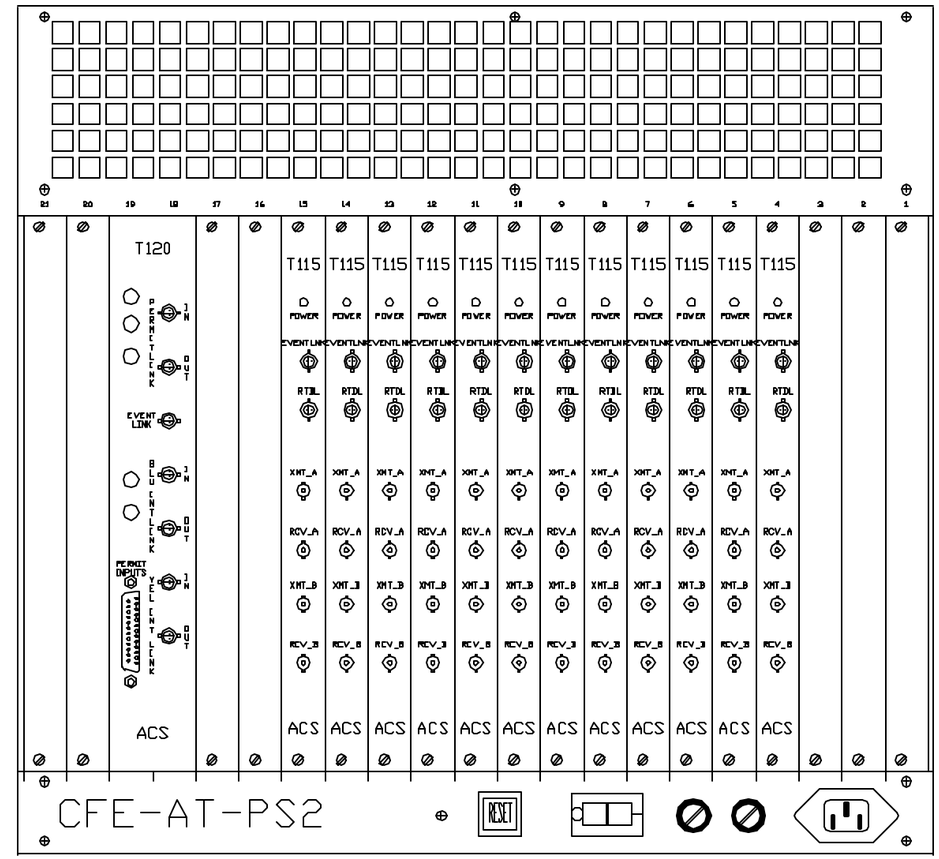
*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

BNL, BNL 4/10/00 1:36 PM 8753.dwg



FRONT VIEW



REAR VIEW

NOTE:

1. ALL UNUSED SLOTS, FRONT AND REAR

QTY REQD	REF DESIGNATOR	ITEM NO	DESCRIPTION	MFG. NAME NO./BNL NO.
	L SLOT 2	9	MEMORY BOARD	NM-6702
	15 SEE NOTE 1	8	VME BLANK PANEL (ELECTRO-SPACE ESFE-2985)	
	12 SLOT 4-15	7	T115 WAVEFORM GENERATOR TRANSITION MODULE	94028186
	12 SLOT 4-15	6	V115 WAVEFORM GENERATOR MODULE	94028108
	L SLOT 18,19	5	T120 PERMIT SYSTEM TRANSITION MODULE	94028199-2
	L SLOT 20	4	V120 PERMIT SYSTEM MODULE	94028077
	L SLOT 3	3	V108 UTILITY MODULE	94028094
	L SLOT 1	2	FRONT END COMPUTER	POWER-3e
	L N/A	1	VME CHASSIS	RHIC-930080000
-3 -2 -1				

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14 24M-1989

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

DECIMAL TOLERANCES
.X ±.030
.XX ±.015
.XXX ±.005
ANGULAR TOLERANCE ± .5°

OUTSTANDING ECN

NA FINISH

BREAK SHARP EDGES
MAX XX MIN XX

QA CATEGORY A-3		DATE
DRAWN BY	Ed Koropsak	11/18/98
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL	R MICHNOFF	11/18/99
SUPVR. APPROVAL		

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973

C-A CONTROLS

A TRAILER RACK ATRL-4

VME CHASSIS CFE-AT-PS2

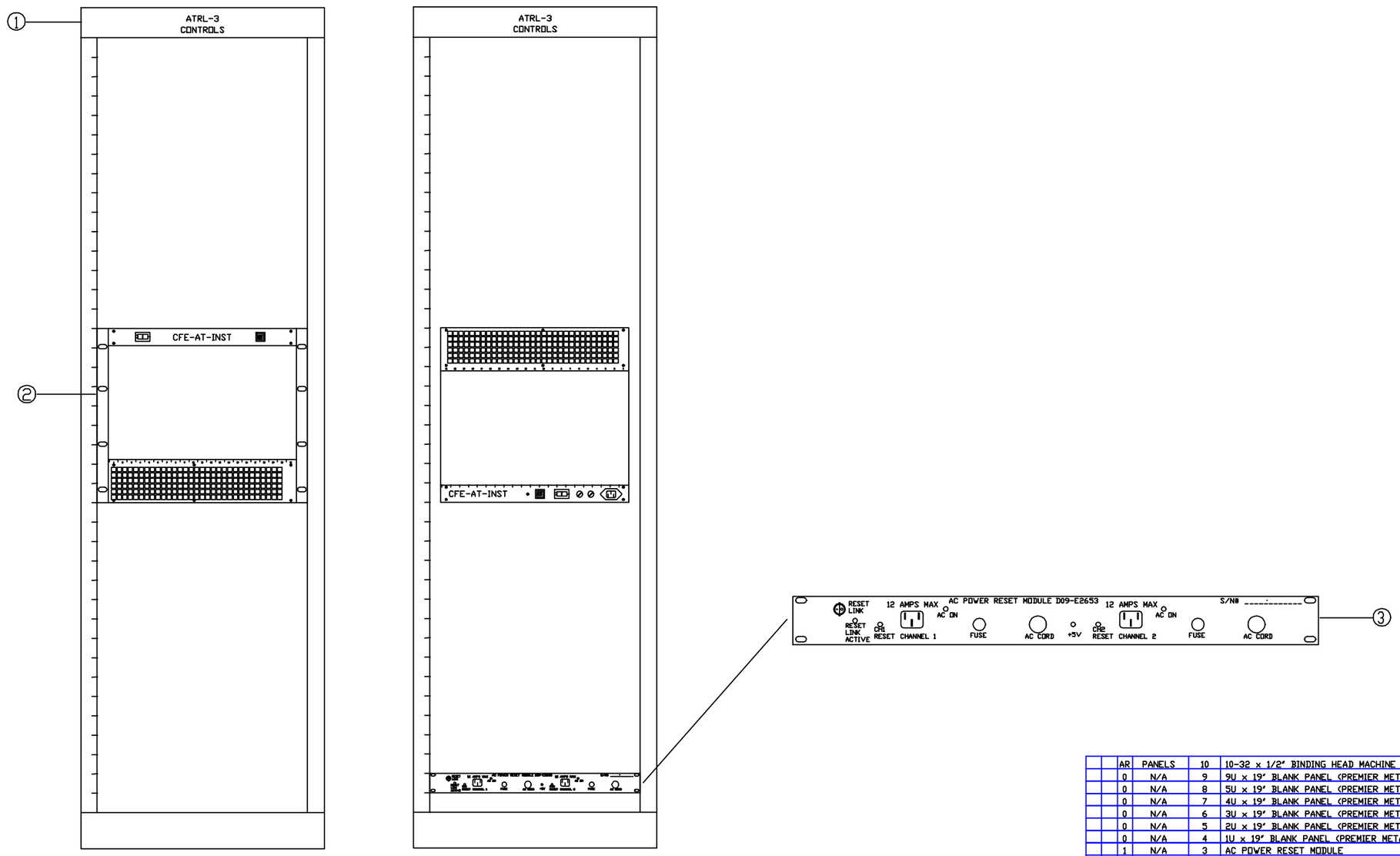
SIZE D | DRAWING NUMBER 94028753 | REV A

MATERIAL ——— | SCALE NA | WEIGHT: – | SHEET 1 OF 1

*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

ACS, BNL 11/19/99 9:39 AM8754.dwg



QTY REQD -3	QTY REQD -2	QTY REQD -1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L. DWG NO./BNL NO.
		AR	PANELS	10	10-32 x 1/2" BINDING HEAD MACHINE SCREWS	T-32276
		0	N/A	9	9U x 19" BLANK PANEL (PREMIER METAL ARP-1519-553)	X
		0	N/A	8	5U x 19" BLANK PANEL (PREMIER METAL ARP-819-553)	X
		0	N/A	7	4U x 19" BLANK PANEL (PREMIER METAL ARP-719-553)	X
		0	N/A	6	3U x 19" BLANK PANEL (PREMIER METAL ARP-519-553)	X
		0	N/A	5	2U x 19" BLANK PANEL (PREMIER METAL ARP-319-553)	X
		0	N/A	4	1U x 19" BLANK PANEL (PREMIER METAL ARP-119-553)	X
		1	N/A	3	AC POWER RESET MODULE	D09-E2653
		1	N/A	2	VME CHASSIS CFE-AT-INST ASSY.	94028755
		1	N/A	1	19" RACK, 70"H RACK SPACE	X

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.24M-1989

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

DECIMAL TOLERANCES
.X ±.030
.XX ±.015
.XXX ±.005
ANGULAR TOLERANCE
± .5°

OUTSTANDING ECN

NA FINISH

BREAK SHARP EDGES
MAX. XX MIN. XX

Q.A. CATEGORY A-3		DATE
DRAWN BY	Ed Koropsak	11/18/99
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL	R. MICHNOFF	11/18/99
SUPVR. APPROVAL		

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973

C-A CONTROLS

A TRAILER

RACK ATRL-3 ASSEMBLY

SIZE D

DRAWING NUMBER 94028754

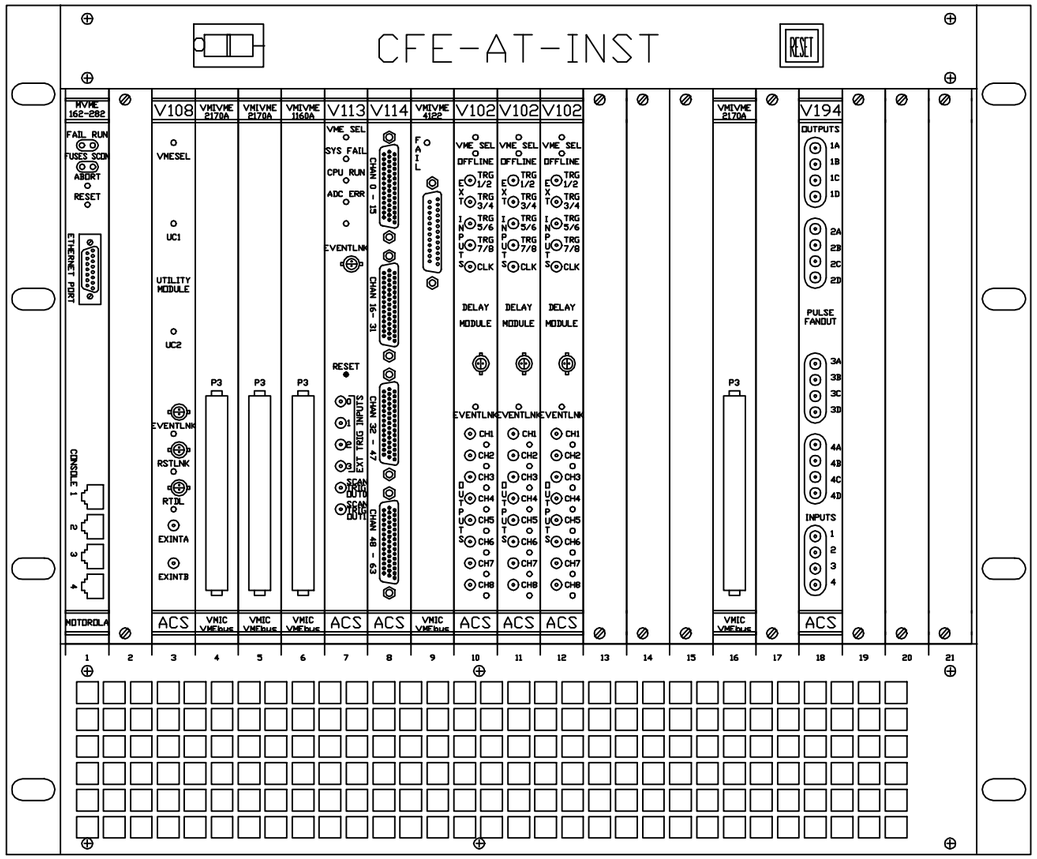
REV. A

MATERIAL: ——— SCALE: NA WEIGHT: – SHEET 1 OF 1

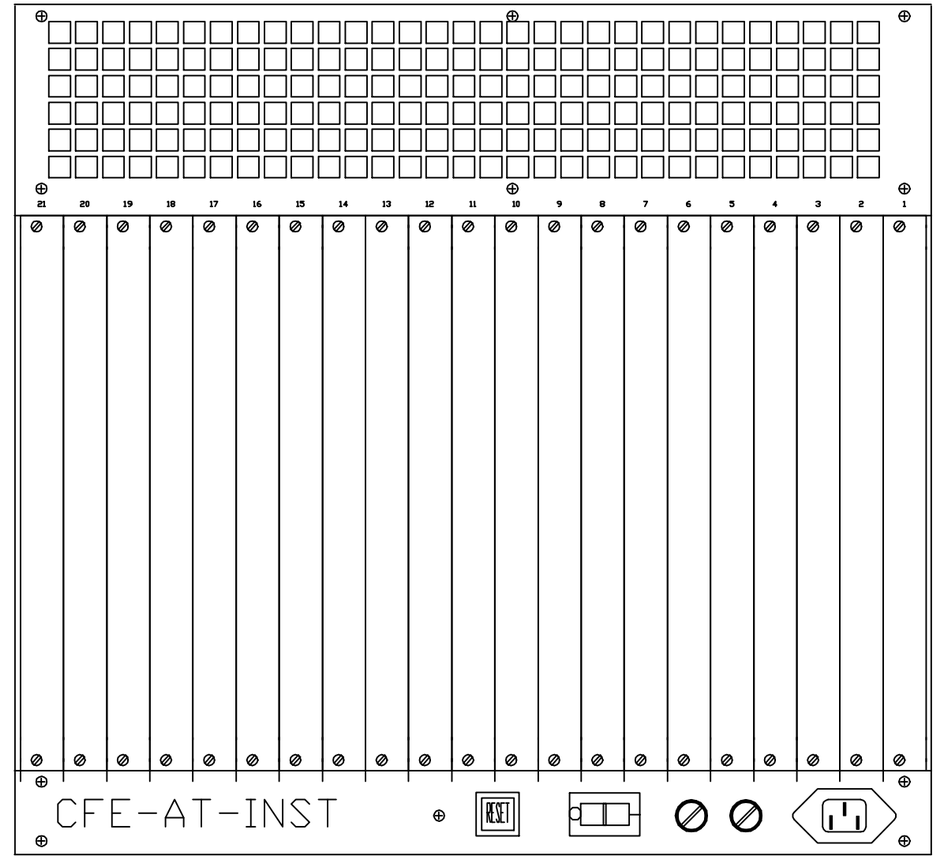
*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

ACS, BNL 11/29/99 9:26 AM 8755.dwg



FRONT VIEW



REAR VIEW

NOTE:

1. ALL UNUSED SLOTS, FRONT AND REAR

-3	-2	-1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO./BNL NO.
		3	SLOT 10-12	10	V102 DELAY MODULE	94028072
		1	SLOT 16	9	8 CHANNEL 12 BIT ANALOG OUTPUT	VMIVME 4122
		29	SEE NOTE 1	8	VME BLANK PANEL (ELECTRO-SPACE ESFE-2985)	
		1	SLOT 6	7	32 BIT DIGITAL INPUT	VMIVME 1160A
		3	SLOT 4,5,16	6	32 BIT DIGITAL OUTPUT	VMIVME 2170A
		1	SLOT 8	5	V114 MADC A/D CONVERTER MODULE	94028226
		1	SLOT 7	4	V113 MADC CONTROLLER MODULE	94028140
		1	SLOT 3	3	V108 UTILITY MODULE	94028094
		1	SLOT 1	2	FRONT END COMPUTER	MVME 162-282
		1	N/A	1	VME CHASSIS	RHIC-93008000

QTY REQD

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.24M-1989

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

DECIMAL TOLERANCES
.X ±.030
.XX ±.015
.XXX ±.005
ANGULAR TOLERANCE ± .5°

OUTSTANDING ECN

NA FINISH

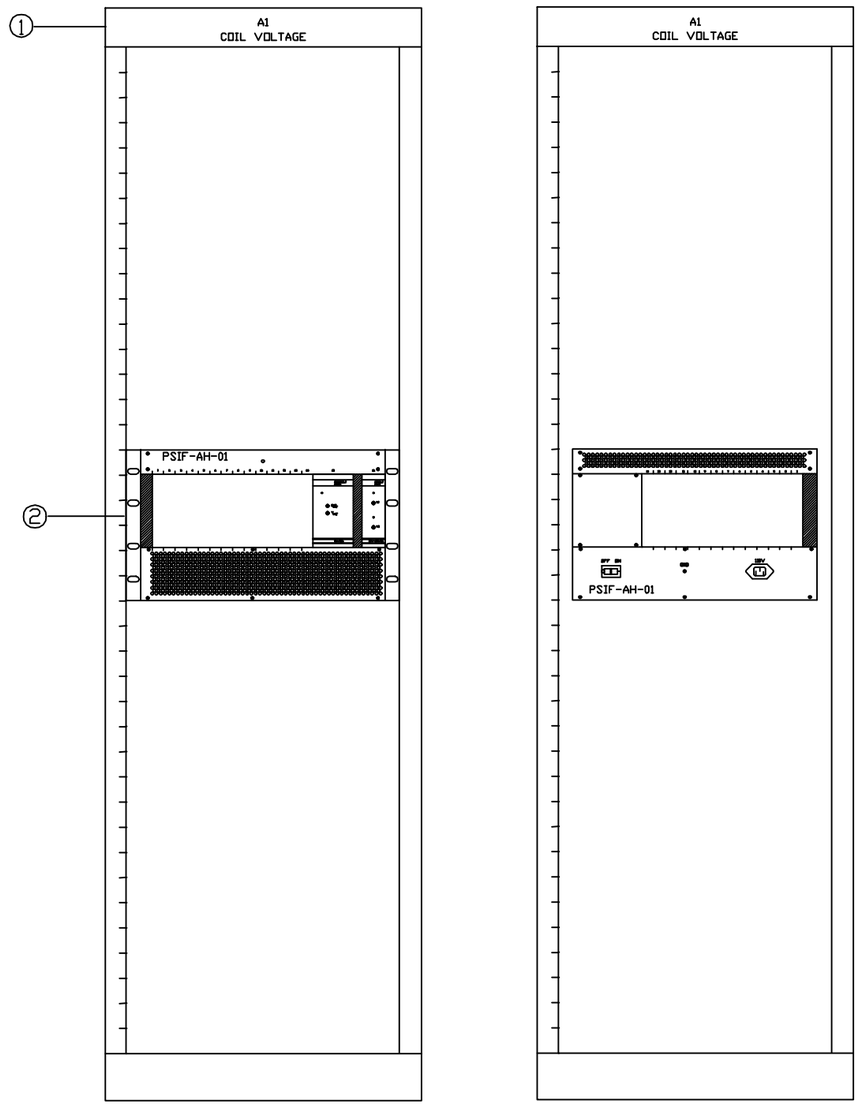
BREAK SHARP EDGES MAX. XX MIN. XX

Q.A. CATEGORY A-3		DATE	BROOKHAVEN NATIONAL LABORATORY UPTON, N.Y. 11973
DRAWN BY	Ed Koropsak	11/18/99	
CHECKED BY			C-A CONTROLS
DESIGN APPROVAL			A TRAILER RACK ATRL-3
ENGINEER APPROVAL	R. MICHNOFF	11/18/99	VME CHASSIS CFE-AT-INST
SUPVR. APPROVAL			
NEXT ASSEMBLY			SIZE D — DRAWING NUMBER 94028755 — REV. A
			MATERIAL: ——— SCALE: NA WEIGHT: – SHEET 1 OF 1

1 *AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

ACS, BNL 11/19/99 9:41 AM 8756.dwg



FRONT VIEW

REAR VIEW

-3	-2	-1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO.,BNL NO.
QTY REQD						
		AR	PANELS	10	10-32 x 1/2" BINDING HEAD MACHINE SCREWS	T-32276
		0	N/A	9	9U x 19" BLANK PANEL (PREMIER METAL ARP-1519-553)	X
		0	N/A	8	5U x 19" BLANK PANEL (PREMIER METAL ARP-819-553)	X
		0	N/A	7	4U x 19" BLANK PANEL (PREMIER METAL ARP-719-553)	X
		0	N/A	6	3U x 19" BLANK PANEL (PREMIER METAL ARP-519-553)	X
		0	N/A	5	2U x 19" BLANK PANEL (PREMIER METAL ARP-319-553)	X
		0	N/A	4	1U x 19" BLANK PANEL (PREMIER METAL ARP-119-553)	X
		-		3		
		1	N/A	2	LO RES PS INTFC CHASSIS ASSY.	94028757
		1	N/A	1	19" RACK, 70"H RACK SPACE	X

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.24M-1989

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

DECIMAL TOLERANCES
.X ±.030
.XX ±.015
.XXX ±.005
ANGULAR TOLERANCE
± .5°

OUTSTANDING ECN

NA FINISH

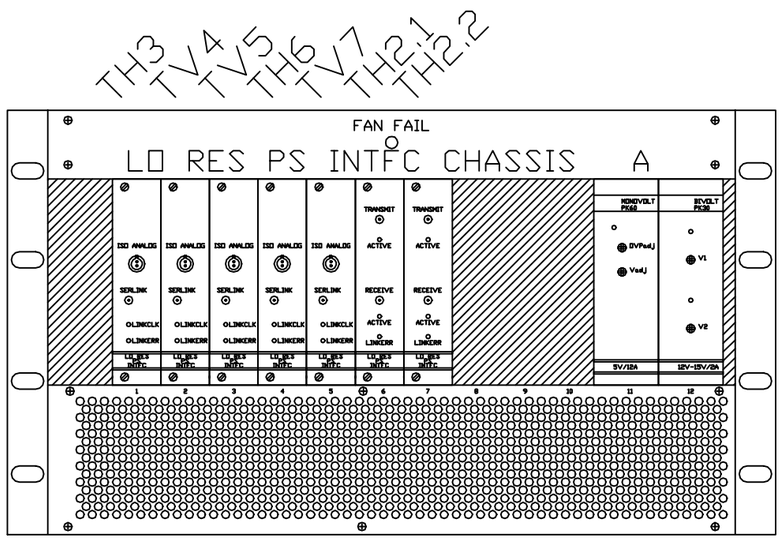
BREAK SHARP EDGES
MAX. XX MIN. XX

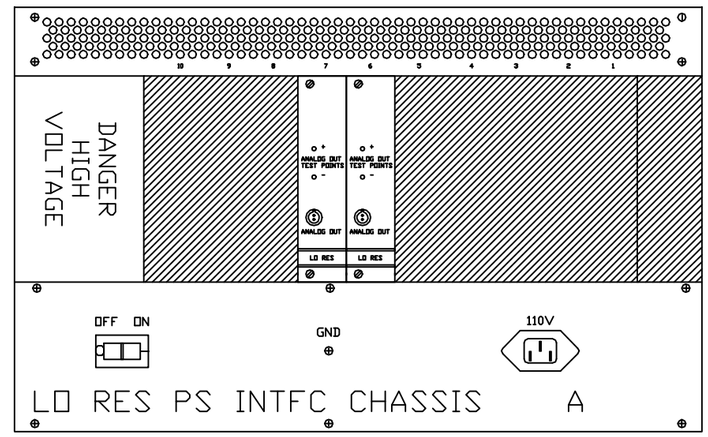
Q.A. CATEGORY A-3		DATE	BROOKHAVEN NATIONAL LABORATORY UPTON, N.Y. 11973
DRAWN BY	Ed Koropsak	11/18/99	
CHECKED BY			C-A CONTROLS
DESIGN APPROVAL			A HOUSE
ENGINEER APPROVAL	R. MICHNOFF	11/18/99	RACK A1 ASSEMBLY
SUPVR. APPROVAL			
NEXT ASSEMBLY			SIZE D — DRAWING NUMBER 94028756 — REV. A
			MATERIAL: ——— SCALE: NA WEIGHT: – SHEET 1 OF 1

1 *AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

ACS, BNL 11/19/99 10:41 AM 8757.dwg





NOTES:
1. ALL UNUSED SLOTS FRONT AND REAR

-3	-2	-1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO.,BNL NO.
		11	SEE NOTE 1	5	3U x 6HP BLANK PANEL (ELECTRO-SPACE)	
		2	SLOT 6,7	4	LO RES PS INTERFACE TRANSITION MODULE	94028198
		2	SLOT 6,7	3	LO RES PS INTERFACE WITH LOOPBACK	94028191
		5	SLOT 1-5	2	LO RES PS INTERFACE MODULE	94028160
		1	N/A	1	3U LO RES POWER SUPPLY INTERFACE CHASSIS	94028262

QTY REQD

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.24M-1989

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
DECIMAL TOLERANCES
.X ±.030
.XX ±.015
.XXX ±.005
ANGULAR TOLERANCE
± .5°

FINISH: NA
BREAK SHARP EDGES
MAX. XX MIN. XX

OUTSTANDING ECN

Q.A. CATEGORY A-3

		DATE
DRAWN BY	Ed Koropsak	11/18/99
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL	R. MICHNOFF	11/18/99
SUPVR. APPROVAL		

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973
C-A CONTROLS, A HOUSE
RACK A1
CHASSIS PSIF-AH-01 ASSY

SIZE D
DRAWING NUMBER 94028757
REV. A

MATERIAL: ——— SCALE: NA WEIGHT: — SHEET 1 OF 1

*AUTOCAD