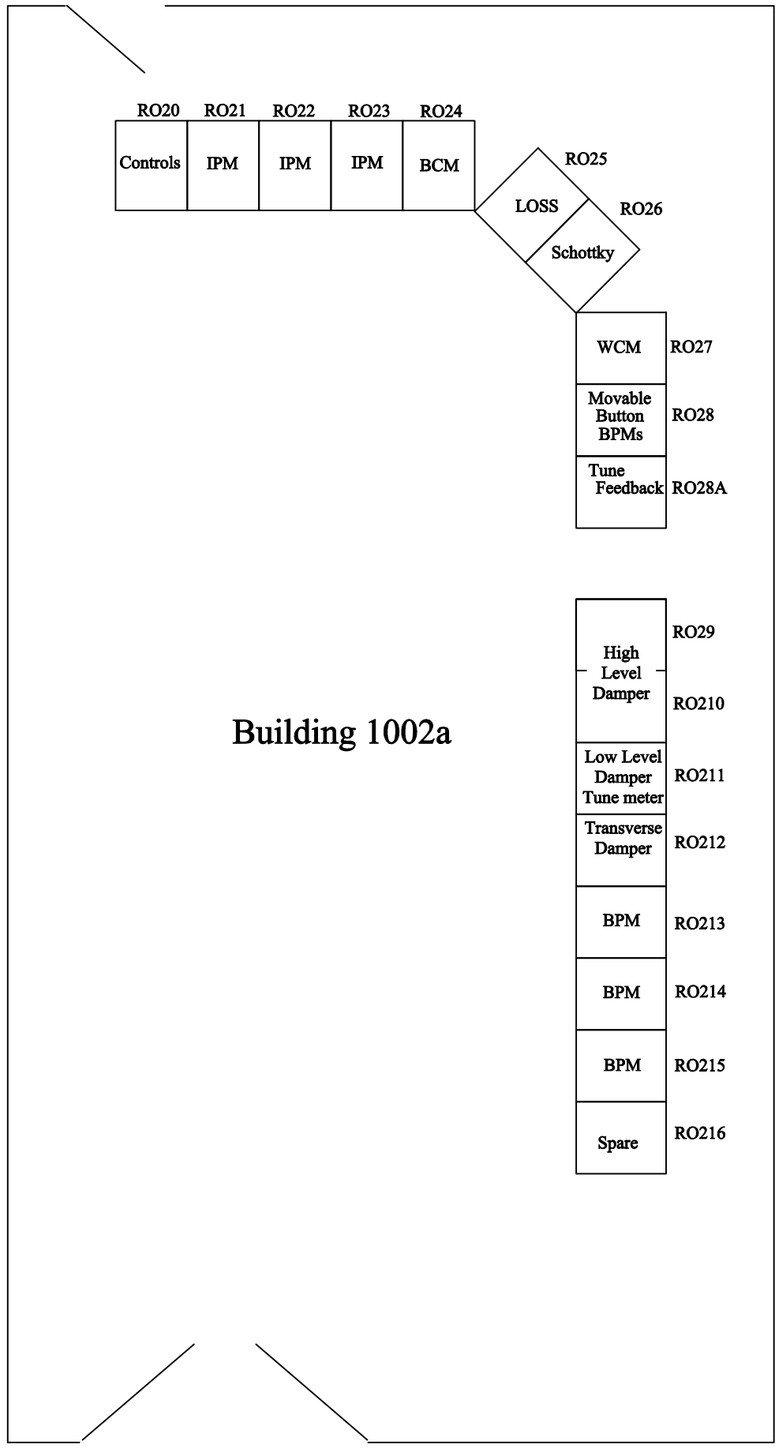
REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

CONTROLS-5/25/01 10:24 AM 8720.dwg



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

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

UNLESS OTHERMISE 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	Al Watson	1/31/00
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL		
SUPVR. APPROVAL		

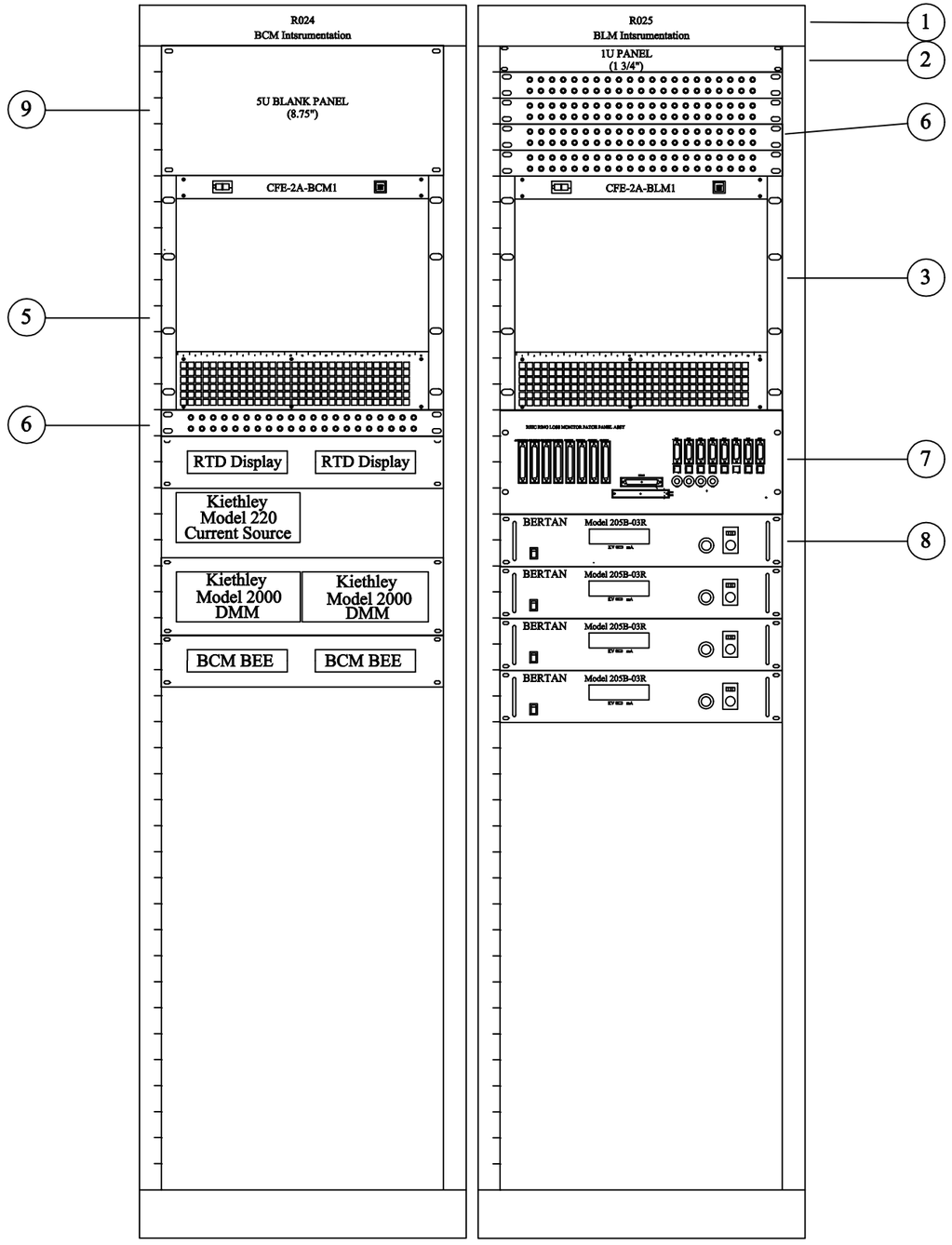
NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973
RHIC CONTROLS
SUPPORT BLDG. 1002A
RACK ASSEMBLY

SIZE D | 94028720 | REV. A
DRAWING NUMBER

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

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.
Controls	8/25/99 3:18 PM	8721.dwg				



QTY REQD –3	–2	–1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L. DWG NO./BNL NO.
		AR	PANELS	11	10-32 x 1/2" BINDING HEAD MACHINE SCREWS	T-32276
		-	-	-	-	-
		1	NA	9	5U x 19" BLANK PANEL	X
		4	NA	8	BERTAN POWER SUPPLY	205B-03R
		1	NA	7	RHIC RING LOSS MONITOR PATCH PANEL	58031019
		5	NA	6	GROMMET PANEL	X
		1	NA	5	VME CHASSIS CFE-2A-BCM1	94028723
		-	-	-	-	-
		1	NA	3	VME CHASSIS CFE-2A-BLM1	94028721
		2	NA	2	1U x 19" BLANK PANEL (PREMIER METAL ARP-119-553)	X
		2	NA	1	19" RACK, 77" 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	10/21/98
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL	R. MICHNOFF	10/21/98
SUPVR. APPROVAL		

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973
RHIC CONTROLS
SERVICE BLDG. 1002A
RACKS R024, R025

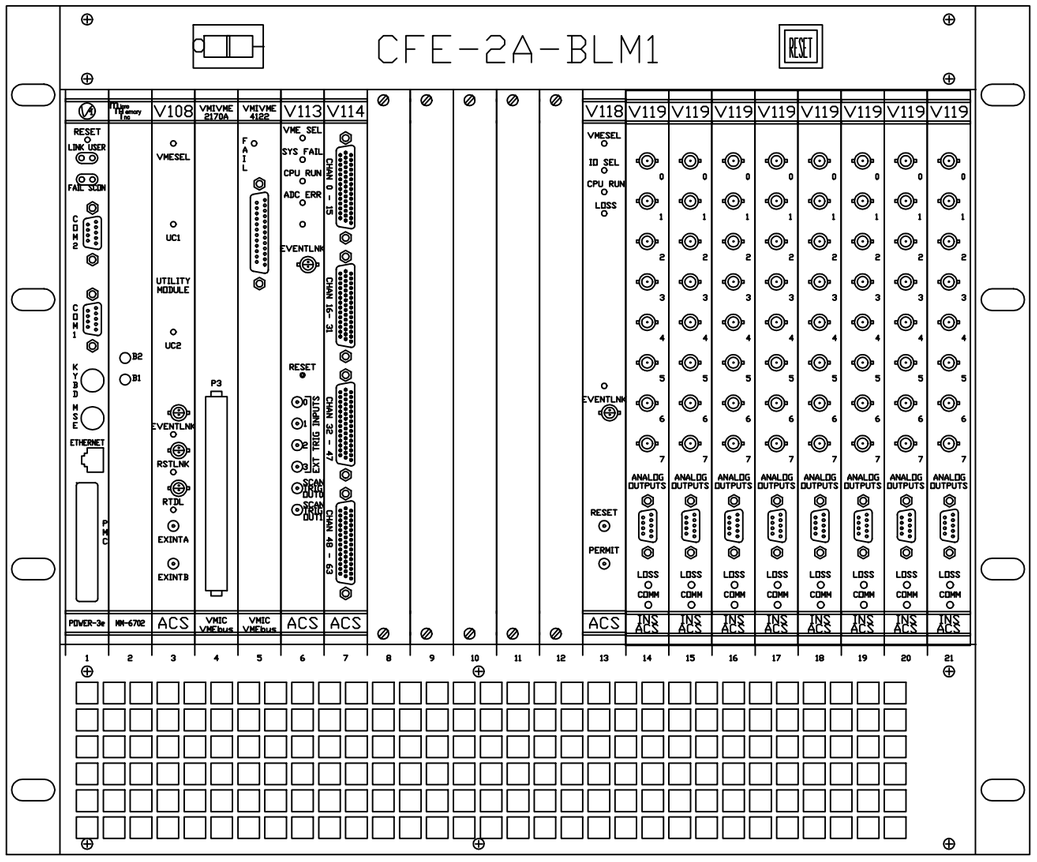
SIZE D | 94028721 | REV. A
DRAWING NUMBER

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

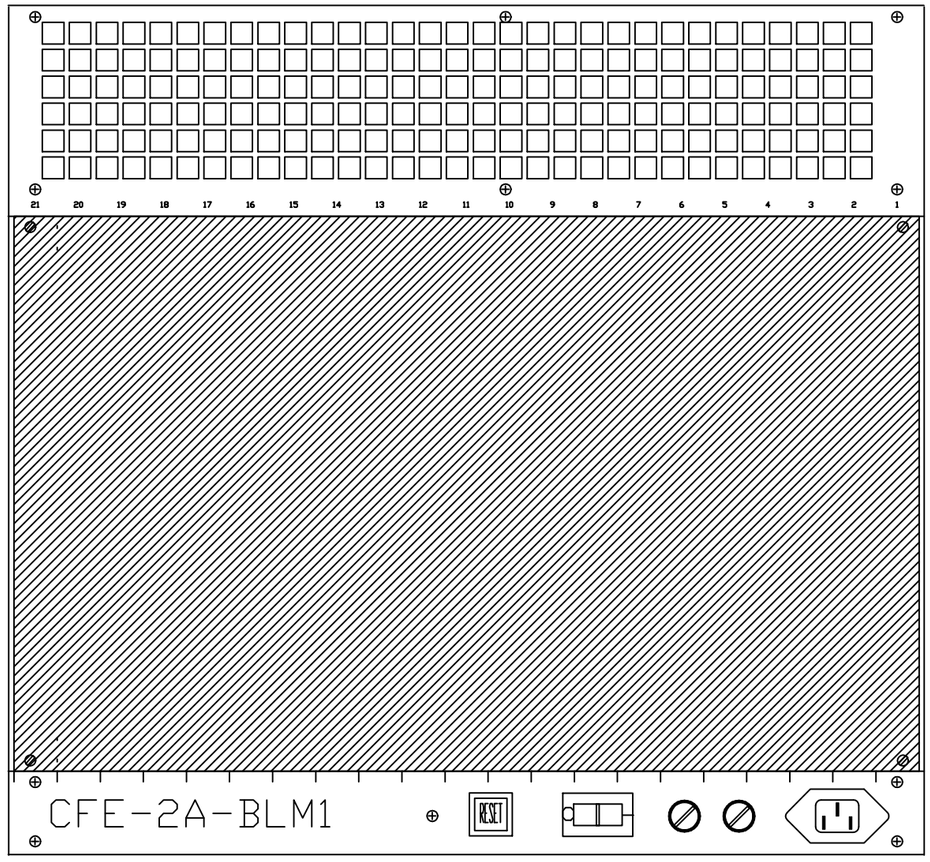
*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

Controls 8/26/99 1:39 PM 8722.dwg



FRONT VIEW



REAR VIEW

NOTE:

1. ALL UNUSED SLOTS

QTY REQD -3	QTY REQD -2	QTY REQD -1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO./BNL NO.
		8	SLOT 14-21	10	V119 BLM ANALOG OUTPUT MODULE	58031020
		1	SLOT 13	9	V118 BLM MICRO-CONTROLLER	94028232
		5	SEE NOTE 1	8	VME BLANK PANEL (ELECTRO-SPACE ESFE-2985)	
		1	SLOT 5	7	DAC MODULE	VMI VME 4122
		1	SLOT 4	6	DIGITAL I/O MODULE	VMI VME 2170A
		1	SLOT 7	5	V114 MADC A/D CONVERTER MODULE	94028226
		1	SLOT 6	4	V113 MADC CONTROLLER MODULE	94028140
		1	SLOT 3	3	V108 UTILITY MODULE	94028094
		1	SLOT 1	2	FRONT END COMPUTER	POWER 3e
		1	N/A	1	VME CHASSIS	43017916

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

DRAWN BY	Ed Koropsak	10/20/98
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL	R. MICHNOFF	10/20/98
SUPVR. APPROVAL		

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973
RHIC CONTROLS
SERVICE BLDG. 1002A

VME CHASSIS CFE-2A-BLM1

SIZE D | 94028722 | REV. A

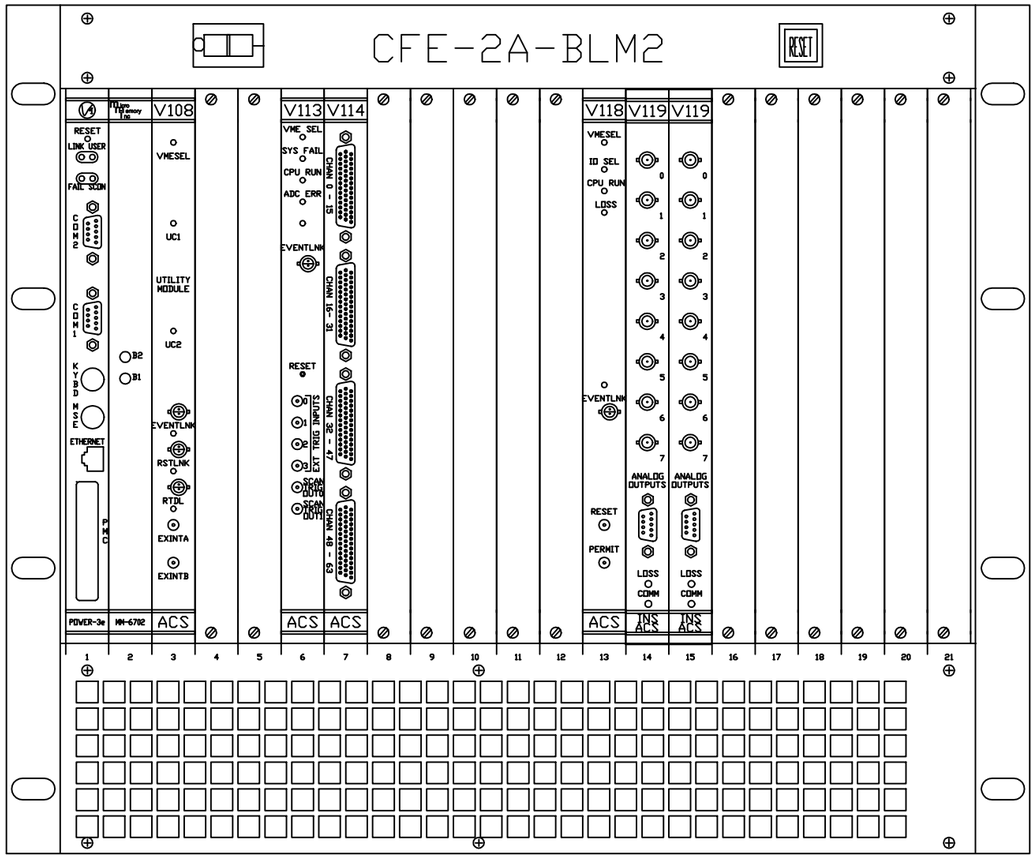
DRAWING NUMBER

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

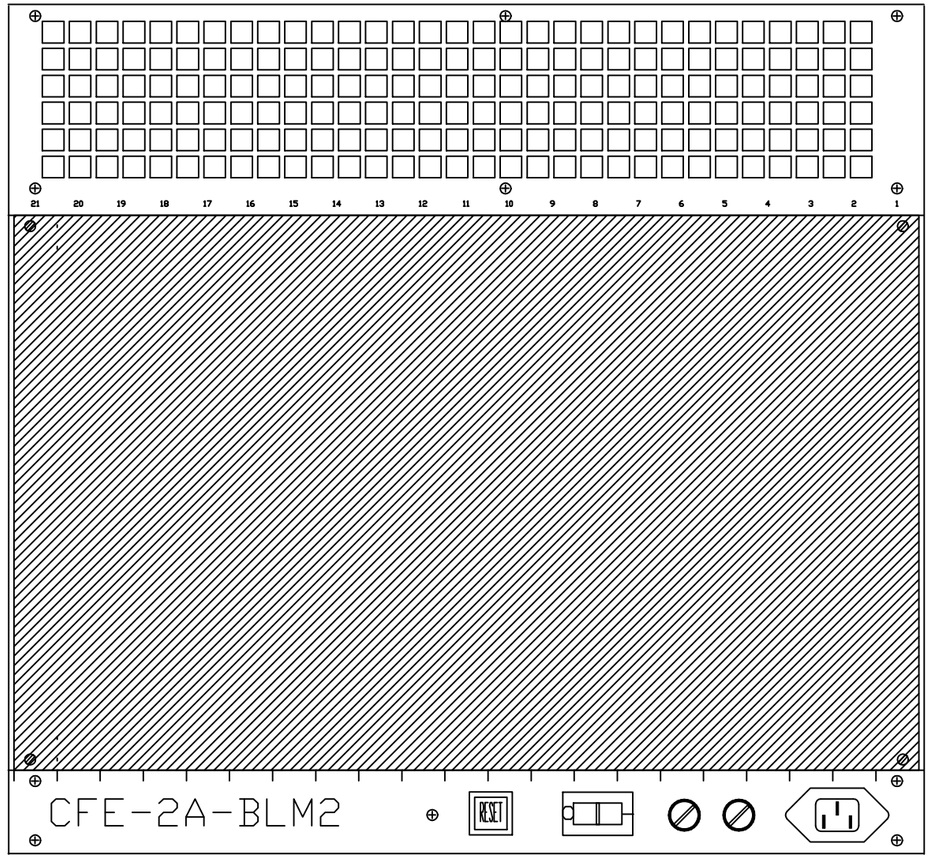
*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

Controls 8/26/99 1:44 PM 8723.dwg



FRONT VIEW



REAR VIEW

NOTE:

1. ALL UNUSED SLOTS

-3	-2	-1	QTY REQD	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO./BNL NO.
			2	SLOT 14-15	10	V119 BLM ANALOG OUTPUT MODULE	58031020
			1	SLOT 13	9	V118 BLM MICRO-CONTROLLER	94028232
			13	SEE NOTE 1	8	VME BLANK PANEL (ELECTRO-SPACE ESFE-2985)	
			-		7		
			-		6		
			1	SLOT 7	5	V114 MADC A/D CONVERTER MODULE	94028226
			1	SLOT 6	4	V113 MADC CONTROLLER MODULE	94028140
			1	SLOT 3	3	V108 UTILITY MODULE	94028094
			1	SLOT 1	2	FRONT END COMPUTER	POWER 3e
			1	N/A	1	VME CHASSIS	43017916

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	10/20/98
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL	R. MICHNOFF	10/20/98
SUPVR. APPROVAL		

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973
RHIC CONTROLS
SERVICE BLDG. 1002A

VME CHASSIS CFE-2A-BLM2

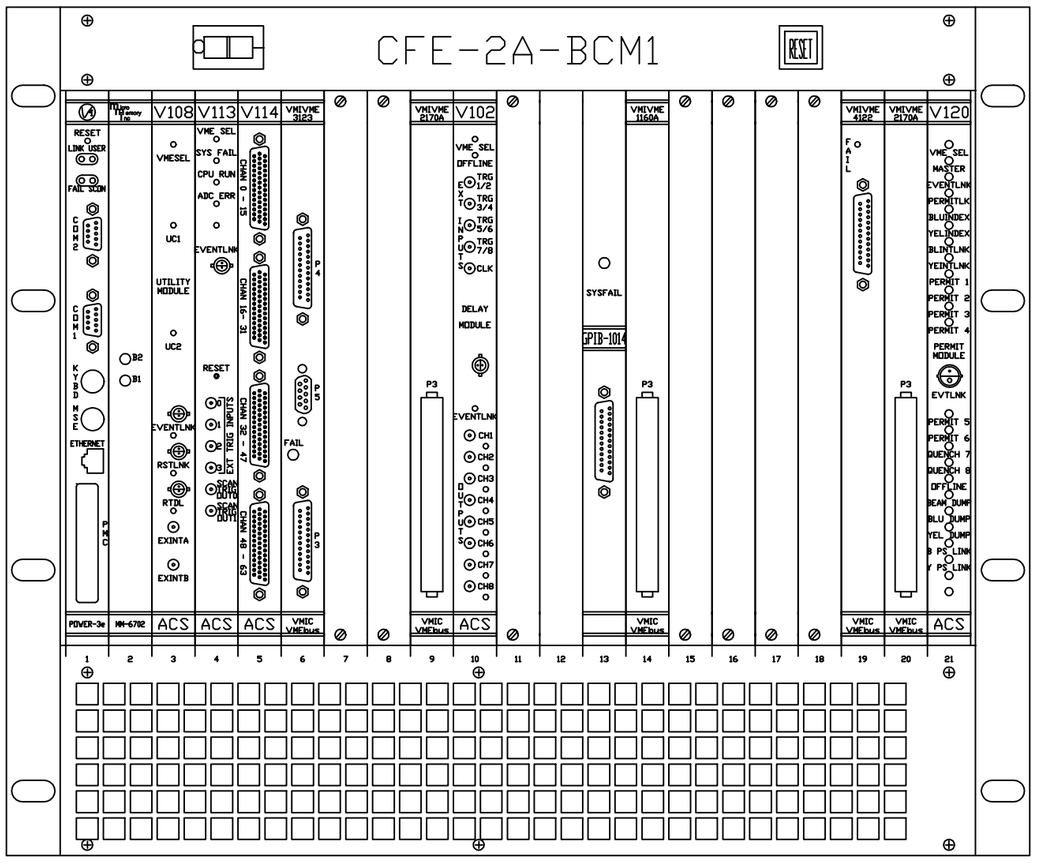
SIZE D | DRAWING NUMBER 94028723 | REV. A

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

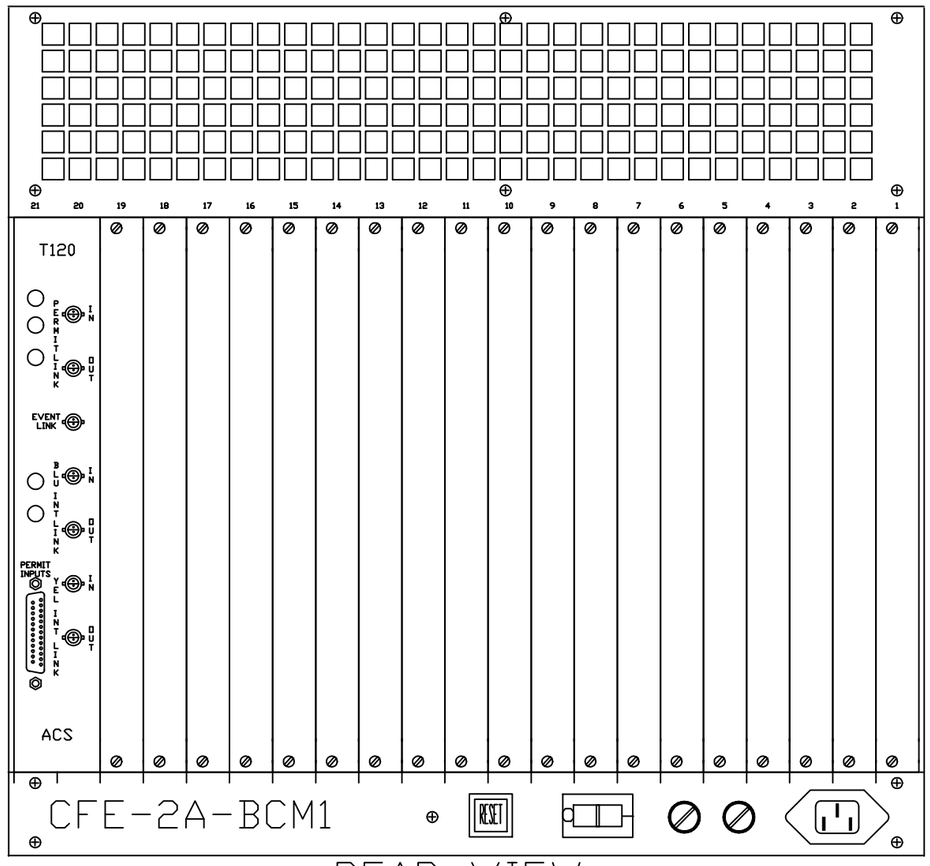
*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

Controls 8/26/99 1:47 PM 8724.dwg



FRONT VIEW



REAR VIEW

NOTE:

1. ALL UNUSED SLOTS, FRONT AND REAR

-3	-2	-1	QTY REQD	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO./BNL NO.
		1	SLOT 14		15	DIGITAL INPUT MODULE	VMIVME1160A
		1	SLOT 10		14	V102 EVENT DELAY MODULE	94028070
		1	SLOT 2		13	MEMORY BOARD	MM6702
		1	SLOT 13		12	GPIB 488 MODULE	GPIB-1014
		2	SLOT 6		11	16 BIT ADC	VMIVME3123
		1	SLOT 20-21		10	T120 PERMIT SYSTEM TRANSITION MODULE	94028199-2
		1	SLOT 21		9	V120 PERMIT SYSTEM MODULE	94028077
		27	SEE NOTE 1		8	VME BLANK PANEL (ELECTRO-SPACE ESFE-2985)	
		1	SLOT 19		7	DAC MODULE	VMI VME 4122
		2	SLOT 9,20		6	DIGITAL I/O MODULE	VMI VME 2170A
		1	SLOT 5		5	V114 MADC A/D CONVERTER MODULE	94028226
		1	SLOT 4		4	V113 MADC CONTROLLER MODULE	94028140
		1	SLOT 3		3	V108 UTILITY MODULE	94028094
		1	SLOT 1		2	FRONT END COMPUTER	POWER 3e
		1	N/A		1	VME CHASSIS	RHIC-93008000

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	Venegas	8/19/99
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL	R. MICHNOFF	10/20/98
SUPVR. APPROVAL		

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973
RHIC CONTROLS
SERVICE BLDG. 1002A

VME CHASSIS CFE-2A-BCM1

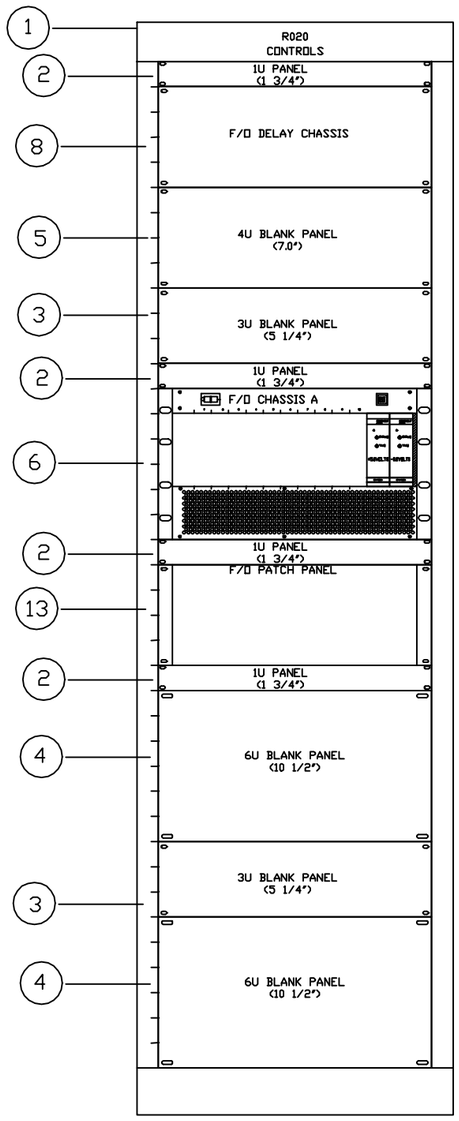
SIZE D | DRAWING NUMBER 94028724 | REV. A

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

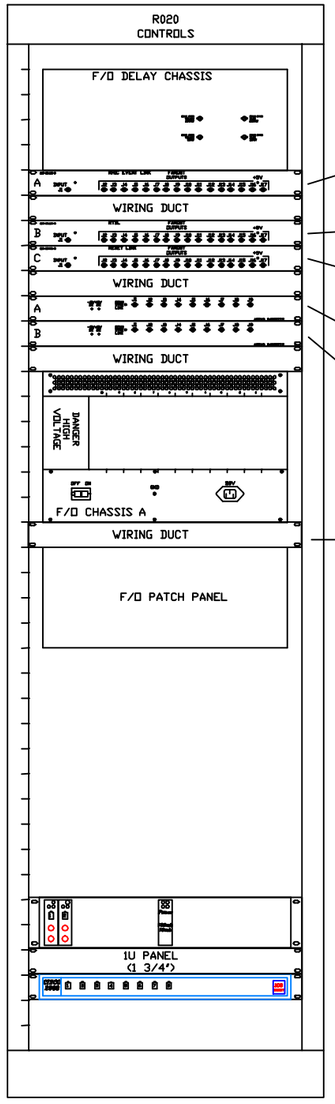
*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

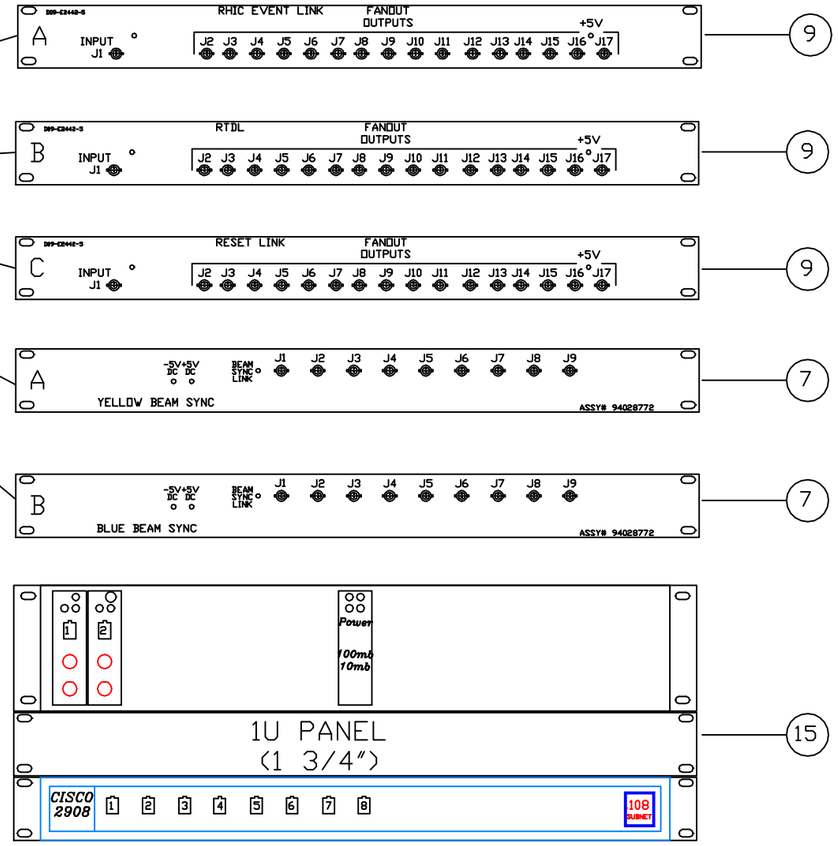
CONTROLS- 4/2/01 2:40 PM8726.dwg



FRONT VIEW



REAR VIEW



QTY REQD -3	QTY REQD -2	QTY REQD -1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MATL DWG NO./BNL NO.
		1	N/A	15	ETHERNET REPEATER	X
		AR	PANELS	14	10-32 x 1/2" BINDING HEAD MACHINE SCREWS	T-32276
		1	NA	13	FIBER OPTIC PATCH PANEL (FONS RIC 72P)	X
		8	NA	12	WIRING DUCT SPRING CLIPS 1.5"W (PANDUIT S1.5-C)	X
		4	NA	11	WIRING DUCT COVER 1.5"W (PANDUIT C1.5LG6)	X
		5	NA	10	WIRING DUCT 1.5"W x 4"D (PANDUIT E1.5X4LG6)	X
		4	A,B,C	9	FANOUT ASSEMBLY	DD9-E2442
		1	NA	8	FIBER OPTIC DELAY CHASSIS ASSY.	94028277
		2	A,B	7	CONTROL BEAM SYNC FANOUT UNIT (ECL)	94028772
		1	NA	6	F/O CHASSIS A	940288518
		1	NA	5	4U x 19" BLANK PANEL (PREMIER METAL ARP-719-553)	X
		2	NA	4	6U x 19" BLANK PANEL (PREMIER METAL ARP-1019-553)	X
		2	NA	3	3U x 19" BLANK PANEL (PREMIER METAL ARP-519-553)	X
		4	NA	2	1U x 19" BLANK PANEL (PREMIER METAL ARP-119-553)	X
		1	NA	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

DRAWN BY	Venegas	8/23/99
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL	R. MICHNOFF	7/28/98
SUPVR. APPROVAL		

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973
RHIC CONTROLS
SUPPORT BLDG. 1002A

RACK R020 ASSEMBLY

SIZE D | 94028726 | REV. A

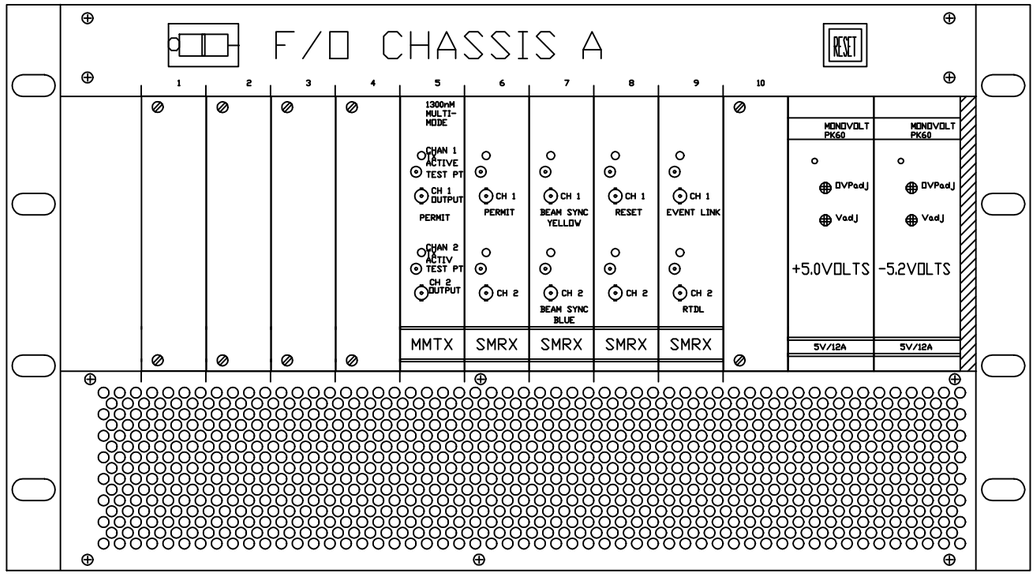
DRAWING NUMBER

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

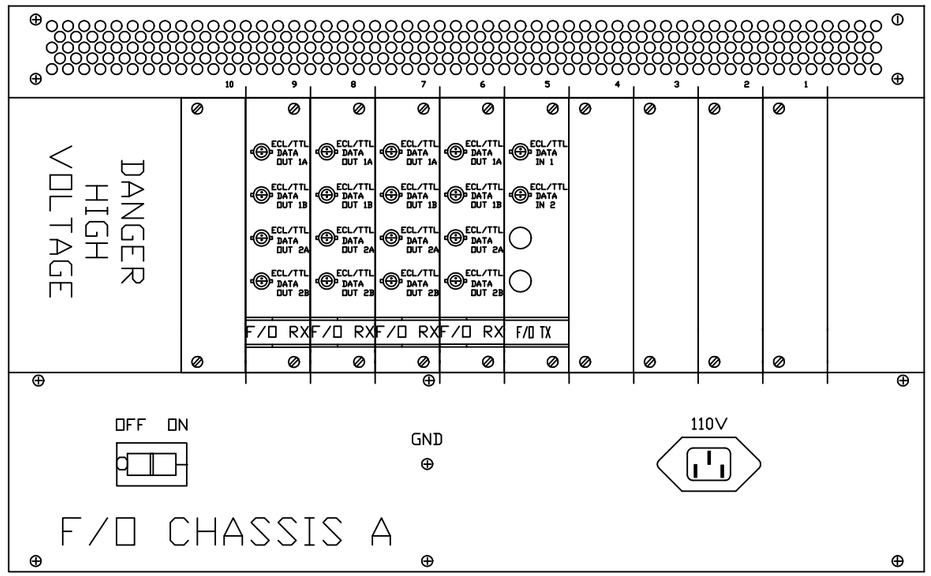
*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

Controls 8/23/99 9:32 AM 8726.dwg



FRONT VIEW



REAR VIEW

QTY REQD -3	QTY REQD -2	QTY REQD -1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO./BNL NO.
		1	SLOT 7	7	3U FIBER OPTIC TRANSISTION MODULE, ECL	D09-E2541-3
		10	ALL UNUSED	6	3U x 6HP BLANK PANEL (ELECTRO-SPACE ESFE-3032)	X
		3	SLOT6,8,9	5	3U FIBER OPTIC RECEIVER TRANSITION MODULE, TTL	D09-E2542-3
		4	SLT6,7-9	4	3U FIBER OPTIC RECEIVER MODULE, MULTIMODE/SINGLEMODE	94028101
		1	SLOT 5	3	3U FIBER OPTIC TRANSMITTER TRANSITION MODULE, TTL	D09-E2495-3
		1	SLOT 5	2	3U FIBER OPTIC TRANSMITTER MODULE, MULTIMODE	94028168
		1	N/A	1	3U FIBER OPTIC CHASSIS	94028261

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

DRAWN BY	Venegas	8/23/99
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL	R. MICHNOFF	5/29/98
SUPVR. APPROVAL		

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
ASSOCIATED UNIVERSITIES, INC.
UPTON, N.Y. 11973

RHIC CONTROLS

BLDG 1002A RO20

F/O CHASSIS A ASSY.

SIZE D

94028727

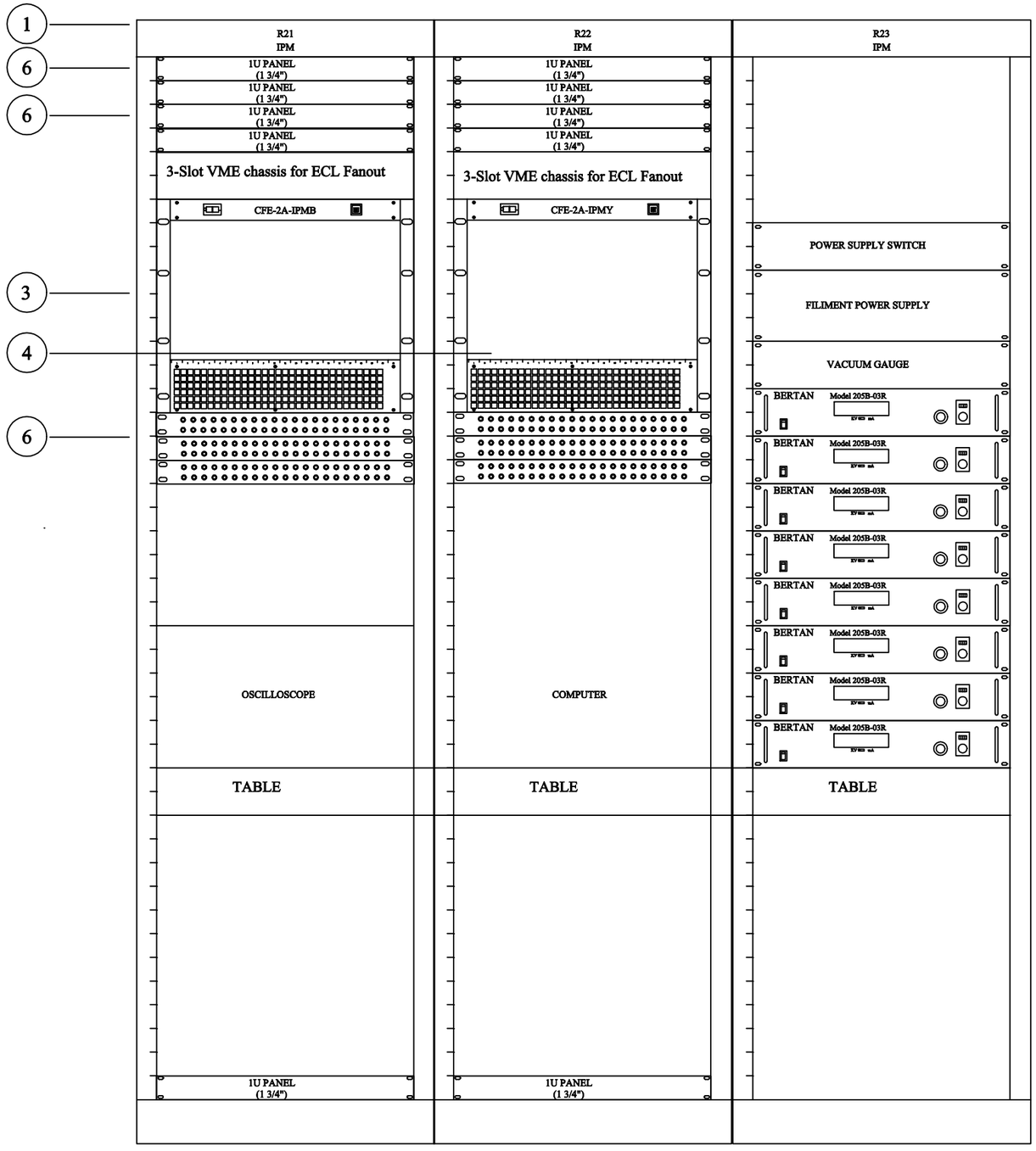
REV. A

DRAWING NUMBER

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

*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.
Controls		8/23/99 1:29 PM	8729.dwg			



FRONT VIEW

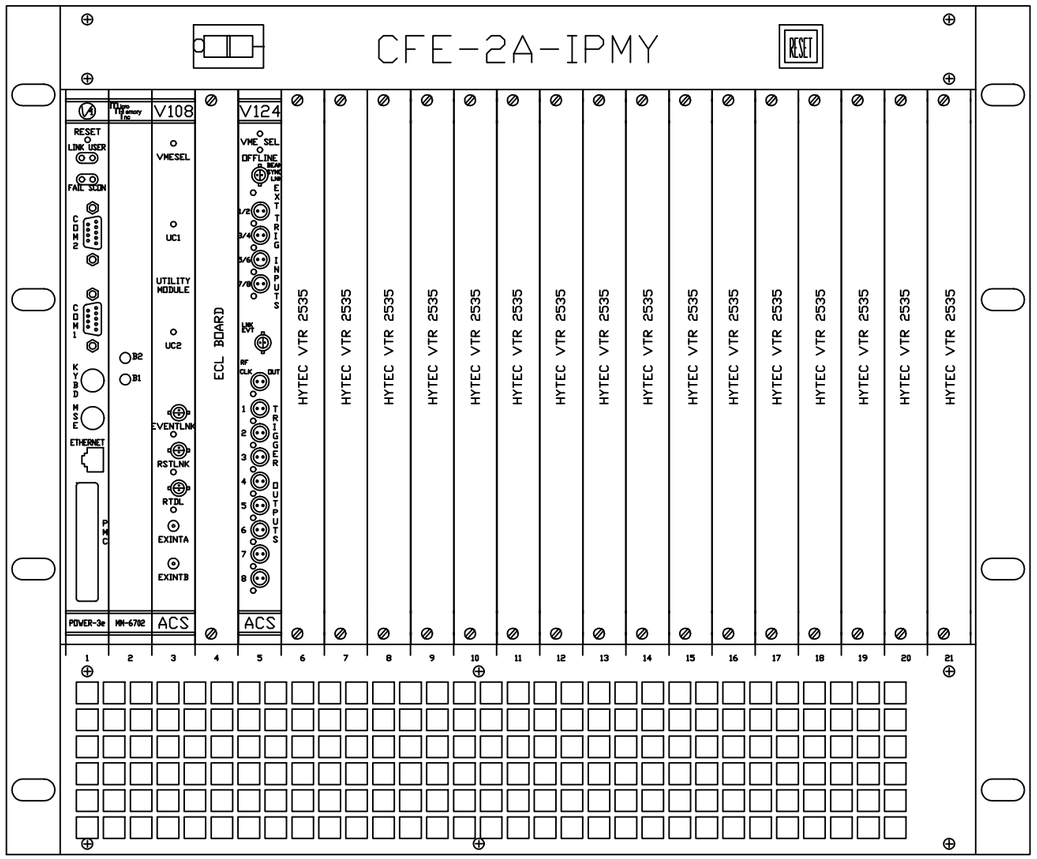
		AR	PANELS	11	10-32 x 1/2" BINDING HEAD MACHINE SCREWS	T-32276
		-	-	-	-	-
		1	NA	9	3U x 19" BLANK PANEL (PREMIER METAL ARP-519-553)	X
		4	NA	8	BERTAN POWER SUPPLY	205B-03R
		2	NA	7	RHIC RING LOSS MONITOR PATCH PANEL	58031019
		9	NA	6	GROMMET PANEL	X
		-	-	-	-	-
		1	NA	4	VME CHASSIS CFE-2A-IPMY	94028XXX
		1	NA	3	VME CHASSIS CFE-2A-IPMB	94028XXX
		11	NA	2	1U x 19" BLANK PANEL	X
		2	NA	1	19" RACK, 77" H RACK SPACE	X
–3	–2	–1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L. DWG NO./SPEC. NO.
QTY REQD						

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.24M–1989	Q.A. CATEGORY A–3	DATE	BROOKHAVEN NATIONAL LABORATORY	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DRAWN BY R. Michnoff	4/20/99	UPTON, N.Y. 11973	
DECIMAL TOLERANCES .X ±.030 .XX ±.015 .XXX ±.005 ANGULAR TOLERANCE ± .5°	CHECKED BY		RHIC INSTRUMENTATION/CONTROLS	
	DESIGN APPROVAL		SERVICE BLDG. 1002A	
	ENGINEER APPROVAL R. MICHNOFF	4/20/99	RACKS R21, R22, R23	
	SUPVR. APPROVAL		SIZE D — 94028729 — REV. A	
OUTSTANDING ECN	NA / FINISH	BREAK SHARP EDGES MAX. XX MIN. XX	NEXT ASSEMBLY	DRAWING NUMBER
			MATERIAL: ———	SCALE: FULL WEIGHT: – SHEET 1

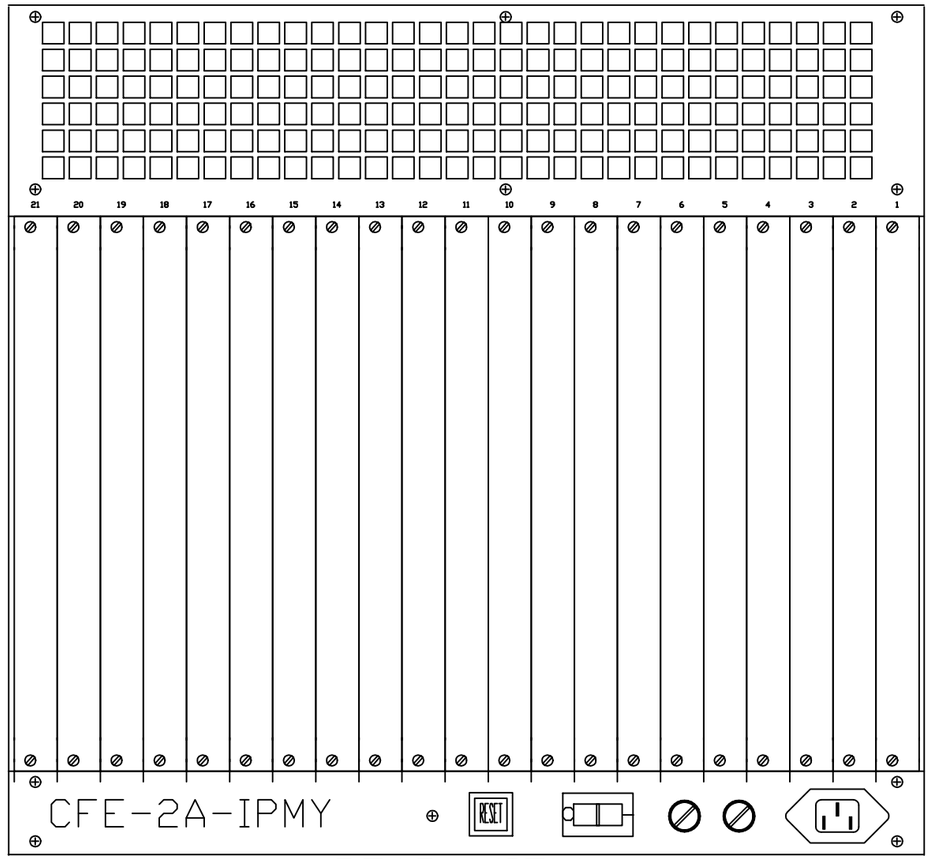
*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

Controls 8/26/99 1:12 PM 8730.dwg



FRONT VIEW



REAR VIEW

NOTE:

1. ALL UNUSED SLOTS, FRONT AND REAR

-3 QTY REQD	-2 QTY REQD	-1 QTY REQD	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO./SPEC NO.
		16	SLOT 6-21	8	HYTEC VTR 2535	-
		1	SLOT 4	7	ECL BOARD	-
		1	SLOT 5	6	V124 BEAM SYNC TRIGGER MODULE	94028432
		1	SLOT 2	5	MEMORY BOARD	MM6702
		-	SEE NOTE 1	4	VME BLANK PANEL (ELECTRO-SPACE ESFE-2985)	
		1	SLOT 3	3	V108 UTILITY MODULE	94028094
		1	SLOT 1	2	FRONT END COMPUTER	POWER 3e
		1	N/A	1	VME CHASSIS	RHIC-93008000

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

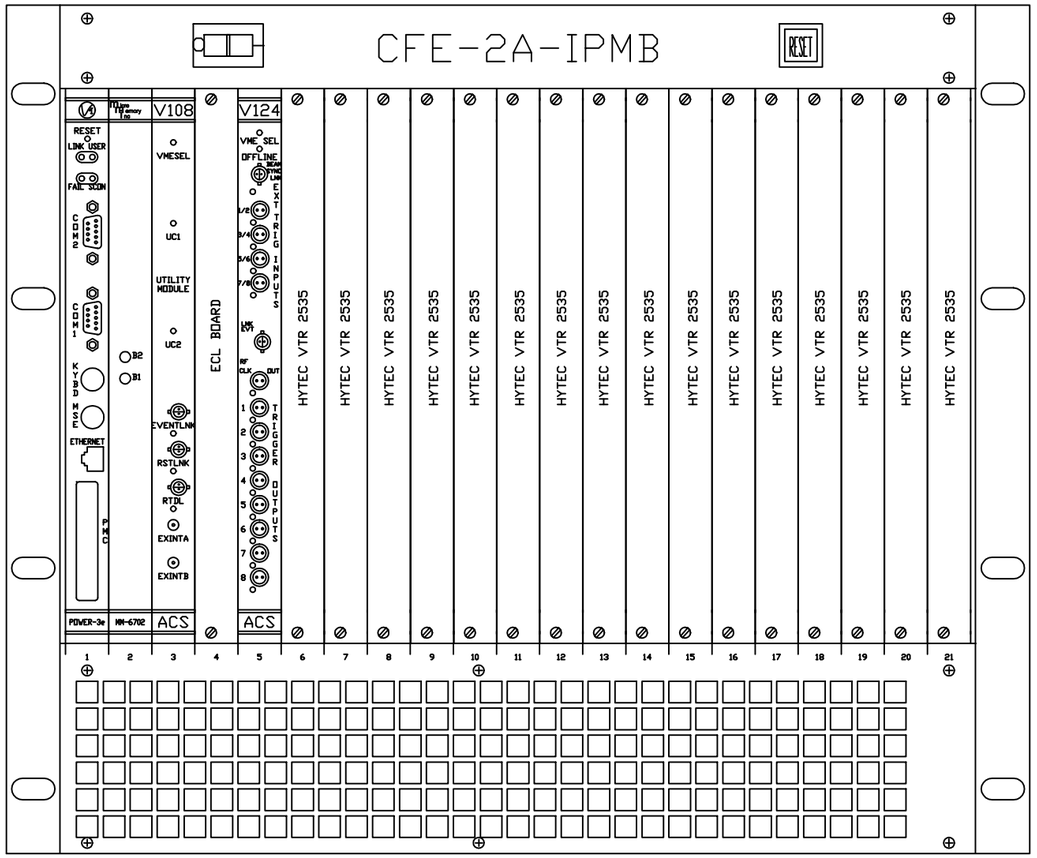
BREAK SHARP EDGES MAX. XX MIN. XX

Q.A. CATEGORY A-3	DATE	BROOKHAVEN NATIONAL LABORATORY	
DRAWN BY Venegas	8/26/99	UPTON, N.Y. 11973	
CHECKED BY		RHIC CONTROLS	
DESIGN APPROVAL		SERVICE BLDG. 1002A	
ENGINEER APPROVAL R. MICHNOFF	10/20/98	VME CHASSIS CFE-2A-IPMY	
SUPVR. APPROVAL		SIZE D	94028730 REV. A
NEXT ASSEMBLY		DRAWING NUMBER	
		MATERIAL: ———	SCALE: NA WEIGHT: – SHEET 1 OF 1

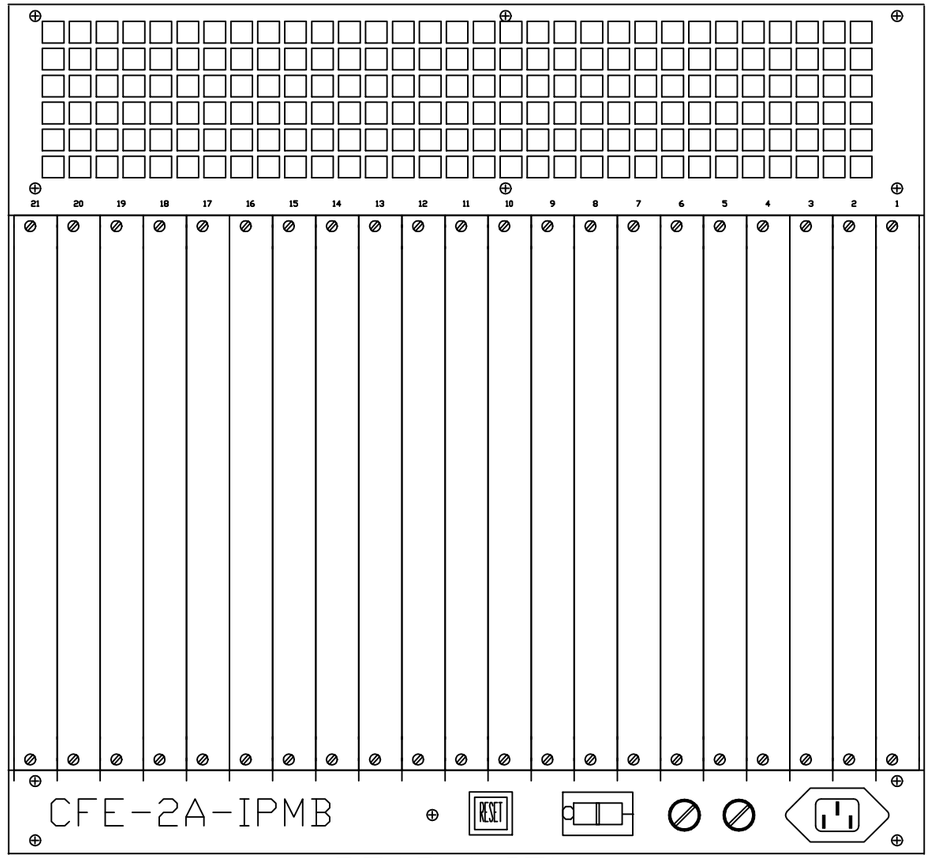
*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

Controls 8/26/99 1:22 PM 8731.dwg



FRONT VIEW



REAR VIEW

NOTE:

1. ALL UNUSED SLOTS, FRONT AND REAR

-3	-2	-1	QTY REQD	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO./BNL NO.
		17	1	SLOT 6-21	8	HYTEC VTR 2435	-
		1	1	SLOT 4	7	ECL BOARD	-
		1	1	SLOT 5	6	V124 BEAM SYNC TRIGGER MODULE	94028432
		1	1	SLOT 2	5	MEMORY BOARD	MM6702
		-	-	SEE NOTE 1	4	VME BLANK PANEL (ELECTRO-SPACE ESFE-2985)	
		1	1	SLOT 3	3	V108 UTILITY MODULE	94028094
		1	1	SLOT 1	2	FRONT END COMPUTER	POWER 3e
		1	1	N/A	1	VME CHASSIS	RHIC-93008000

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

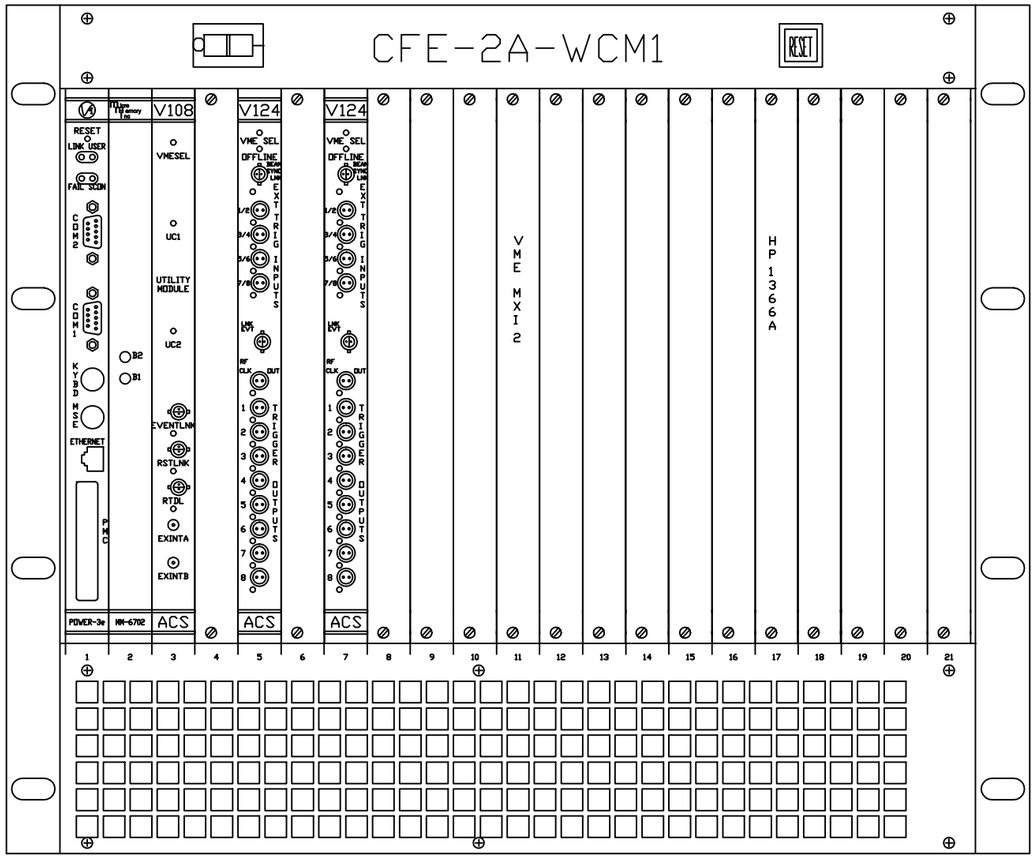
BREAK SHARP EDGES MAX. XX MIN. XX

Q.A. CATEGORY A-3	DATE	BROOKHAVEN NATIONAL LABORATORY
DRAWN BY Venegas	8/26/99	UPTON, N.Y. 11973
CHECKED BY		RHIC CONTROLS
DESIGN APPROVAL		SERVICE BLDG. 1002A
ENGINEER APPROVAL R. MICHNOFF	10/20/98	VME CHASSIS CFE-2A-IPMB
SUPVR. APPROVAL		SIZE D — 94028731 — REV. A
NEXT ASSEMBLY		DRAWING NUMBER
		MATERIAL: ——— SCALE: NA WEIGHT: – SHEET 1 OF 1

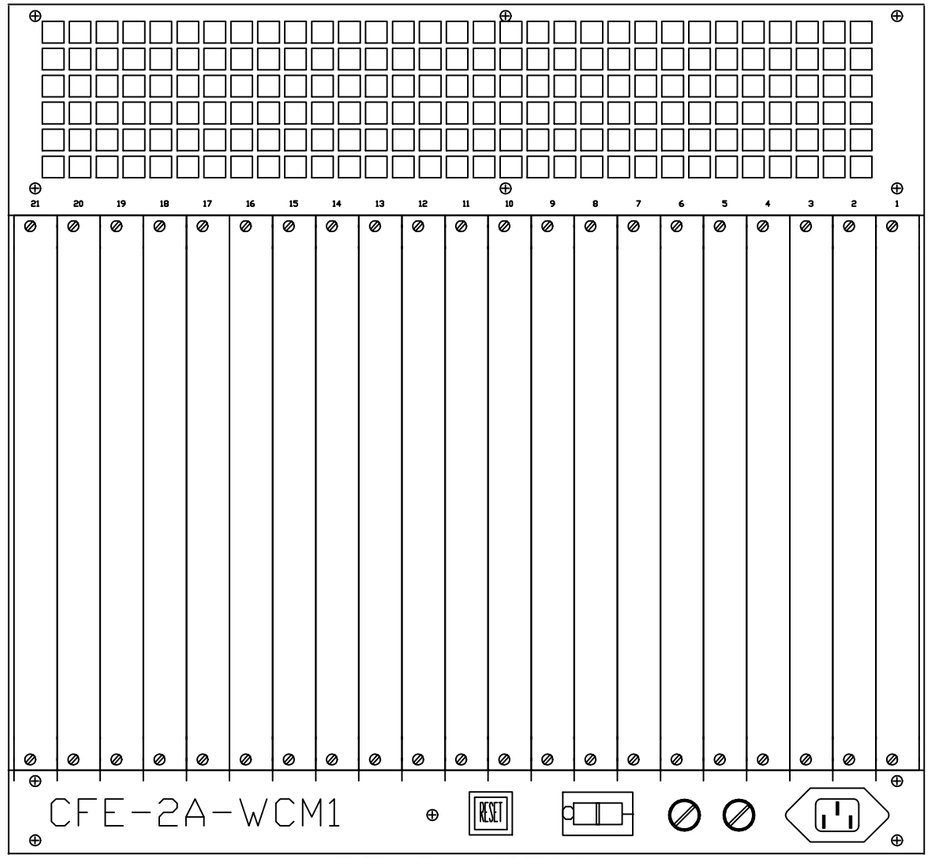
*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

Controls 8/20/99 4:20 PM 8732.dwg



FRONT VIEW



REAR VIEW

NOTE:

1. ALL UNUSED SLOTS, FRONT AND REAR

QTY REQD -3	QTY REQD -2	QTY REQD -1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO./BNL NO.
		-	-	-	-	-
		-	-	-	-	-
		-	-	-	-	-
		-	-	-	-	-
		-	-	-	-	-
		-	-	-	-	-
		-	-	-	-	-
		-	-	-	-	-
		-	-	-	-	-
		1	SLOT 17	6	HP 1366A	N/A
		1	SLOT 11	5	VME-MXI-2	N/A
		2	SLOT 5,7	4	V124 BEAM SYNC TRIGGER MODULE	94028432
		1	SLOT 3	3	V108 UTILITY MODULE	94028094
		1	SLOT 1	2	FRONT END COMPUTER	POWER 3e
		1	N/A	1	VME CHASSIS	RHIC-93008000

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

DRAWN BY	Venegas	8/20/99
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL	R. MICHNOFF	10/20/98
SUPVR. APPROVAL		

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973
RHIC CONTROLS
SERVICE BLDG. 1002A

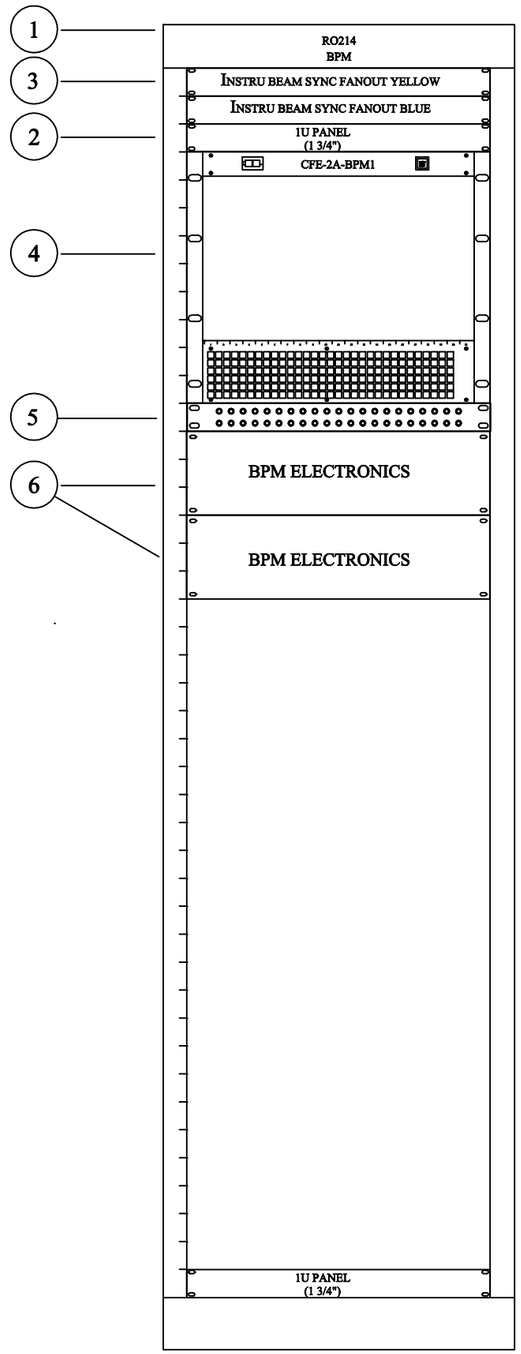
VME CHASSIS CFE-2A-WCM1

SIZE D | 94028732 | REV. A

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

*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.
Controls	8/26/99 1:26 PM	8733.dwg				



FRONT VIEW

-3	-2	-1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO./BNL NO.
		AR	PANELS	11	10-32 x 1/2" BINDING HEAD MACHINE SCREWS	T-32276
		-	-	-	-	-
		-	-	-	-	-
		-	-	-	-	-
		-	-	-	-	-
		2	NA	7	BPM ELECTRONICS	X
		1	N/A	5	GROMMET PANEL	-
		1	NA	4	VME CHASSIS CFE-2A-BPM1	94028XXX
		2	NA	3	INSTRU. BEAM SYNC FANOUT (YELLOW AND BLUE)	94028XXX
		1	NA	2	1U x 19" BLANK PANEL	X
		1	NA	1	19" RACK, 77" 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

DRAWN BY	Venegas	4/26/99
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL	R. MICHNOFF	4/20/99
SUPVR. APPROVAL		

DATE

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973

RHIC BPM INSTRUMENTATION
SERVICE BLDG. 1002A
RACK RO214

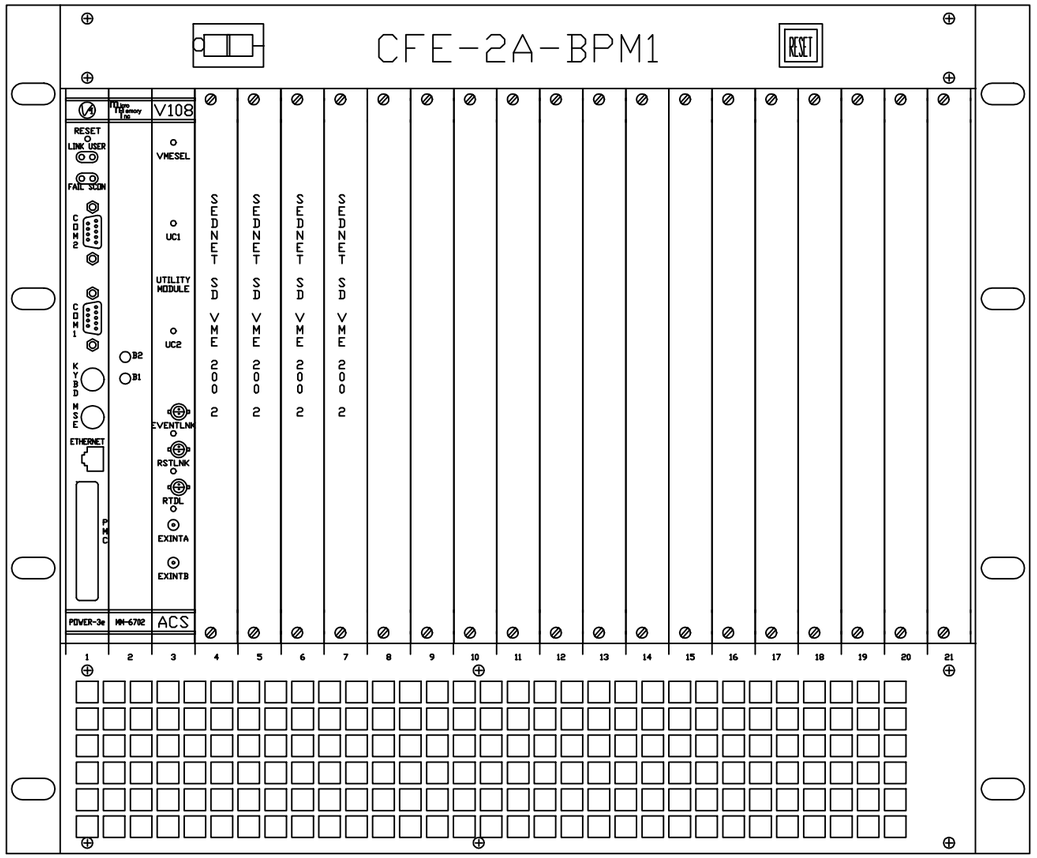
SIZE D
94028733
REV. A
DRAWING NUMBER

MATERIAL: ———— SCALE: FULL WEIGHT: – SHEET 1

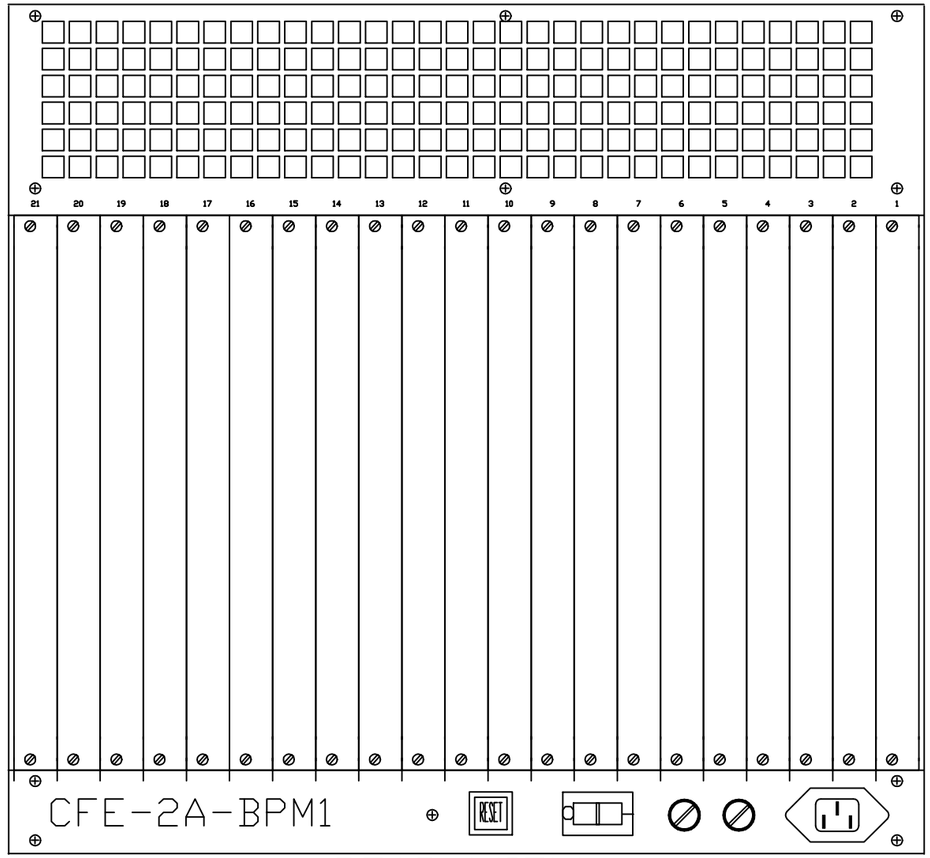
1 *AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

Controls 8/26/99 1:28 PM 8734.dwg



FRONT VIEW



REAR VIEW

NOTE:

1. ALL UNUSED SLOTS, FRONT AND REAR

-3	-2	-1	QTY REQD	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO./BNL NO.
		-	-	-	-	-	-
		4	SLOT 4-7		6	SEDNET SD-VME-200-2	-
		1	SLOT 2		5	MEMORY BOARD	MM6702
		-	SEE NOTE 1		4	VME BLANK PANEL (ELECTRO-SPACE ESFE-2985)	
		1	SLOT 3		3	V108 UTILITY MODULE	94028094
		1	SLOT 1		2	FRONT END COMPUTER	POWER 3e
		1	N/A		1	VME CHASSIS	RHIC-93008000

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	Venegas	8/26/99
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL	R. MICHNOFF	10/20/98
SUPVR. APPROVAL		
NEXT ASSEMBLY		

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973
RHIC CONTROLS
SERVICE BLDG. 1002A

VME CHASSIS CFE-2A-BPM1

SIZE D | 94028734 | REV. A

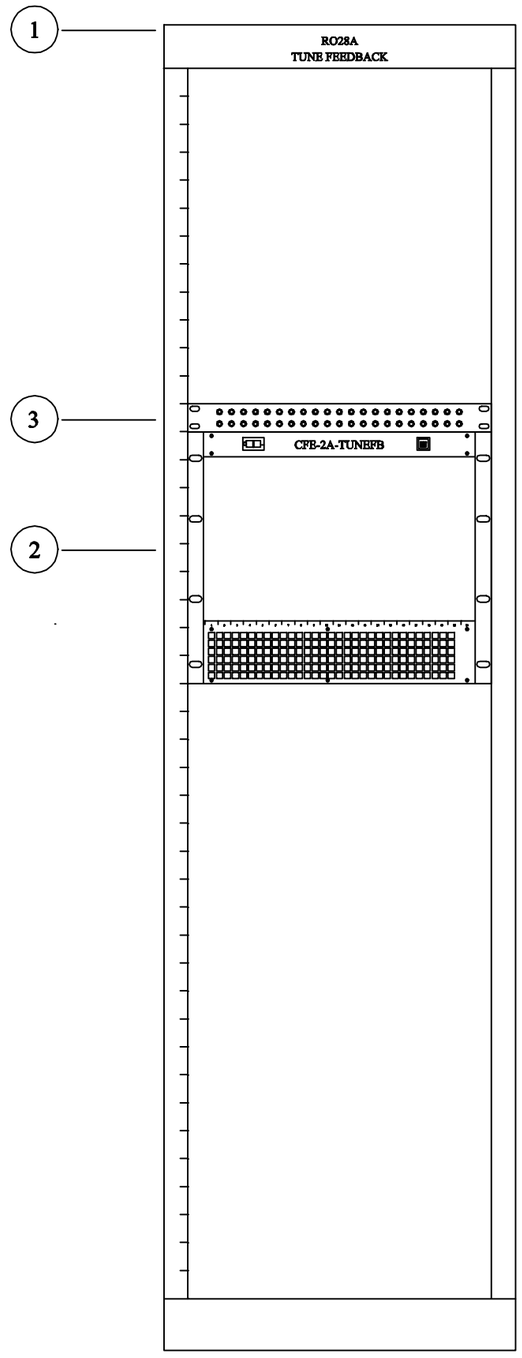
DRAWING NUMBER

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

*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

CONTROLS- 4/3/01 9:43 AM RO_28A.dwg



FRONT VIEW

QTY REQD	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO./BNL NO.
	AR	4	10-32 x 1/2" BINDING HEAD MACHINE SCREWS	T-32276
	1	3	GROMMET PANEL	94028410
	1	2	VME CHASSIS CFE-2A-TUNEFB	94028XXX
	1	1	19" RACK, 77" 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	Koropsak	4/3/01
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL	R. MICHNOFF	4/3/01
SUPVR. APPROVAL		

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973
RHIC TUNE FEEDBACK
SERVICE BLDG. 1002A
RACK RO28A

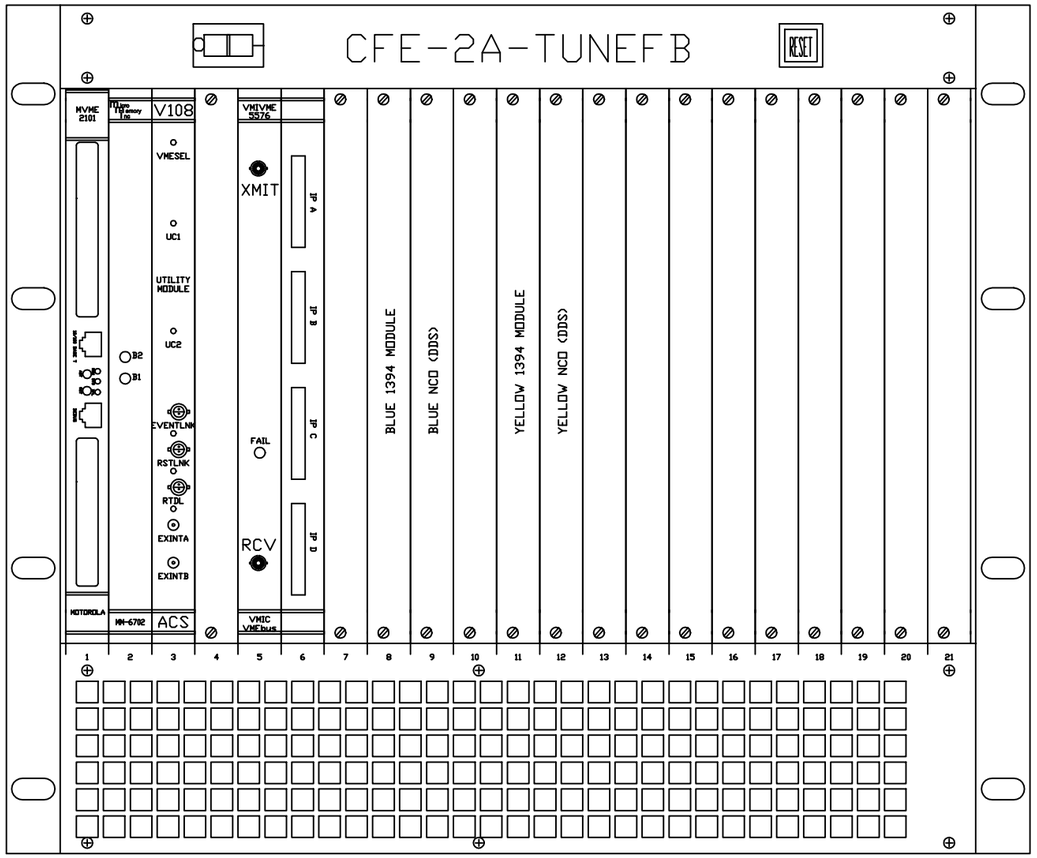
SIZE D | 94028xxx | REV. A
DRAWING NUMBER

MATERIAL: ——— SCALE: FULL WEIGHT: – SHEET 1

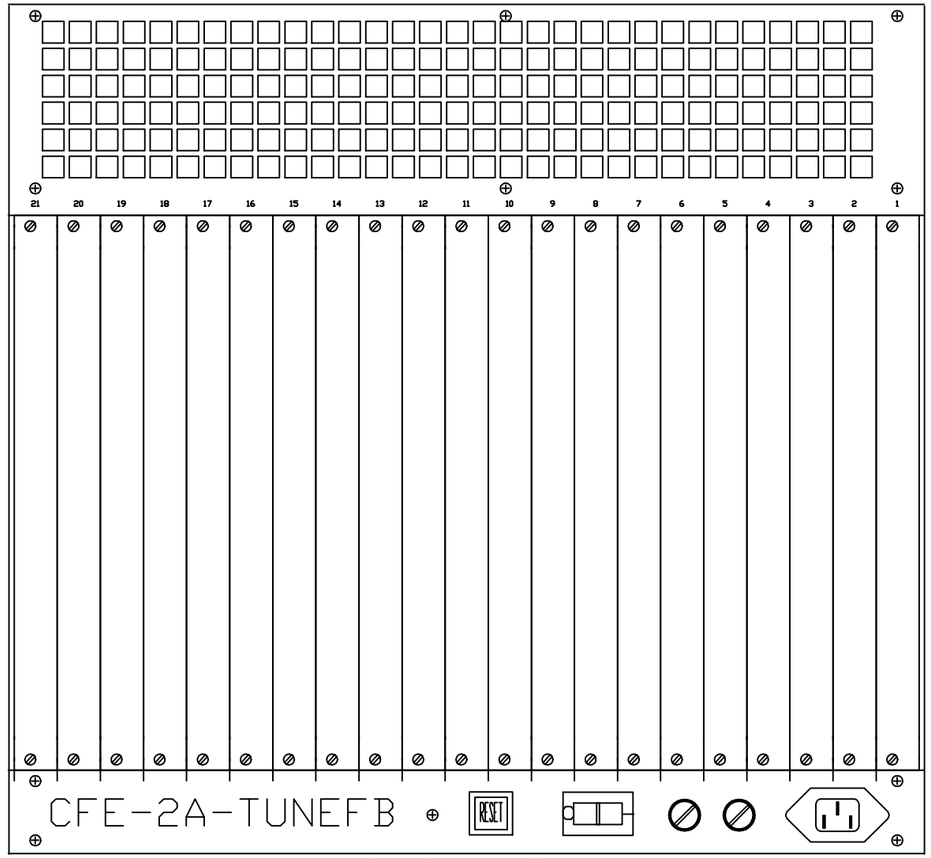
*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

CONTROLS- 5/25/01 11:27 AM tunefb_chassis.dwg



FRONT VIEW



REAR VIEW

NOTE:

1. ALL UNUSED SLOTS, FRONT AND REAR

-3	-2	-1	QTY REQD	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO./BNL NO.
		2		SLOT 9,12	9	NCO (DDS) MODULE	
		2		SLOT 8,11	8	1394 MODULE	
		1		SLOT 6	7	RS232 BOARD	
		1		SLOT 5	6	REFLECTIVE MEMORY CARD	VMIVME 5576
		-		SEE NOTE 1	5	VME BLANK PANEL (ELECTRO-SPACE ESFE-2985)	
		1		SLOT 2	4	MEMORY BOARD	MM6702
		1		SLOT 3	3	V108 UTILITY MODULE	94028094
		1		SLOT 1	2	FRONT END COMPUTER	MVME 2101
		1		N/A	1	VME CHASSIS	RHIC-93008000

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

DRAWN BY	Koropsak	4/02/01
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL	R. MICHNOFF	4/02/01
SUPVR. APPROVAL		

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973
RHIC CONTROLS
SERVICE BLDG. 1002A

VME CHASSIS CFE-2A-TUNEFB

SIZE D | 94028xxx | REV. A

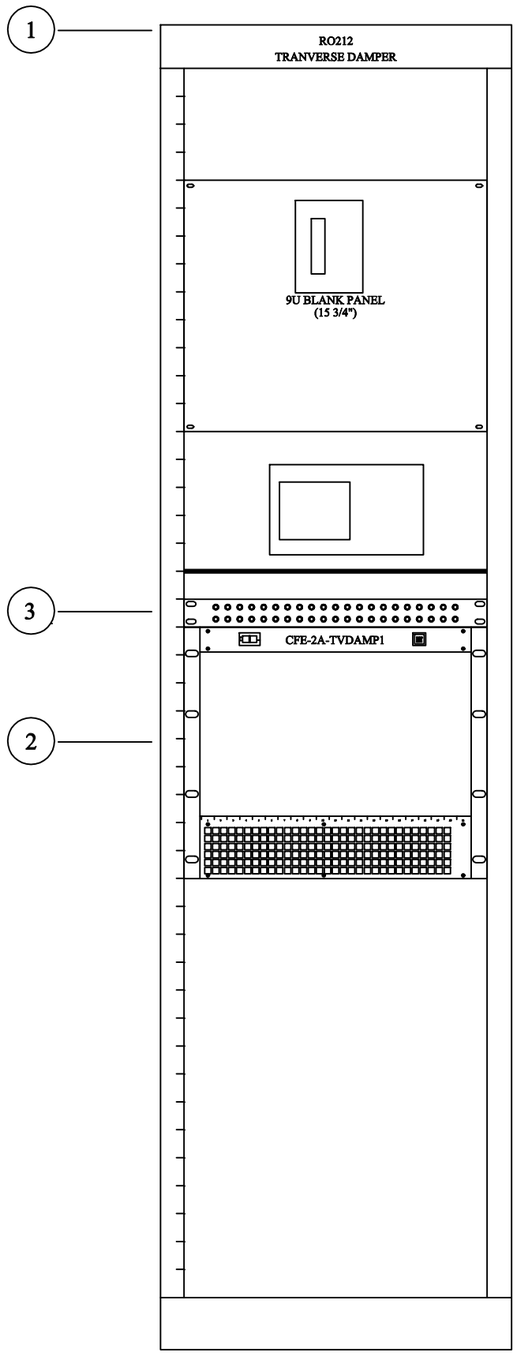
DRAWING NUMBER

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

*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

CONTROLS- 5/25/01 9:48 AM RO_212.dwg



FRONT VIEW

QTY REQD	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO.,BNL NO.
AR	PANELS	4	10-32 x 1/2" BINDING HEAD MACHINE SCREWS	T-32276
1	N/A	3	GROMMET PANEL	94028410
1	NA	2	VME CHASSIS CFE-2A-TVDAMP1	94028XXX
1	NA	1	19" RACK, 77" H RACK SPACE	X

-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'

NA FINISH

BREAK SHARP EDGES
MAX. XX MIN. XX

OUTSTANDING ECN

Q.A. CATEGORY	A-3	DATE
DRAWN BY	Koropsak	5/25/01
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL	R. MICHNOFF	5/25/01
SUPVR. APPROVAL		

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973

RHIC TRANVERSE DAMPER
SERVICE BLDG. 1002A
RACK RO212

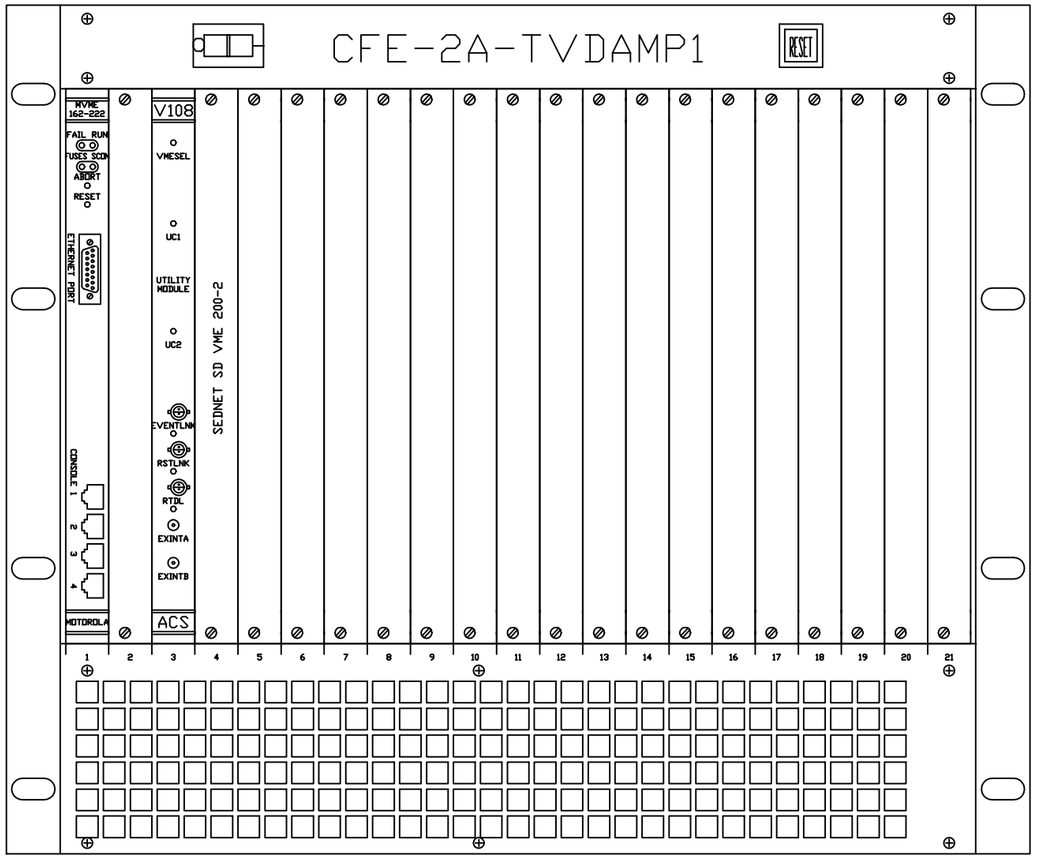
SIZE D
94028xxx
REV. A
DRAWING NUMBER

MATERIAL: ——— SCALE: FULL WEIGHT: – SHEET 1

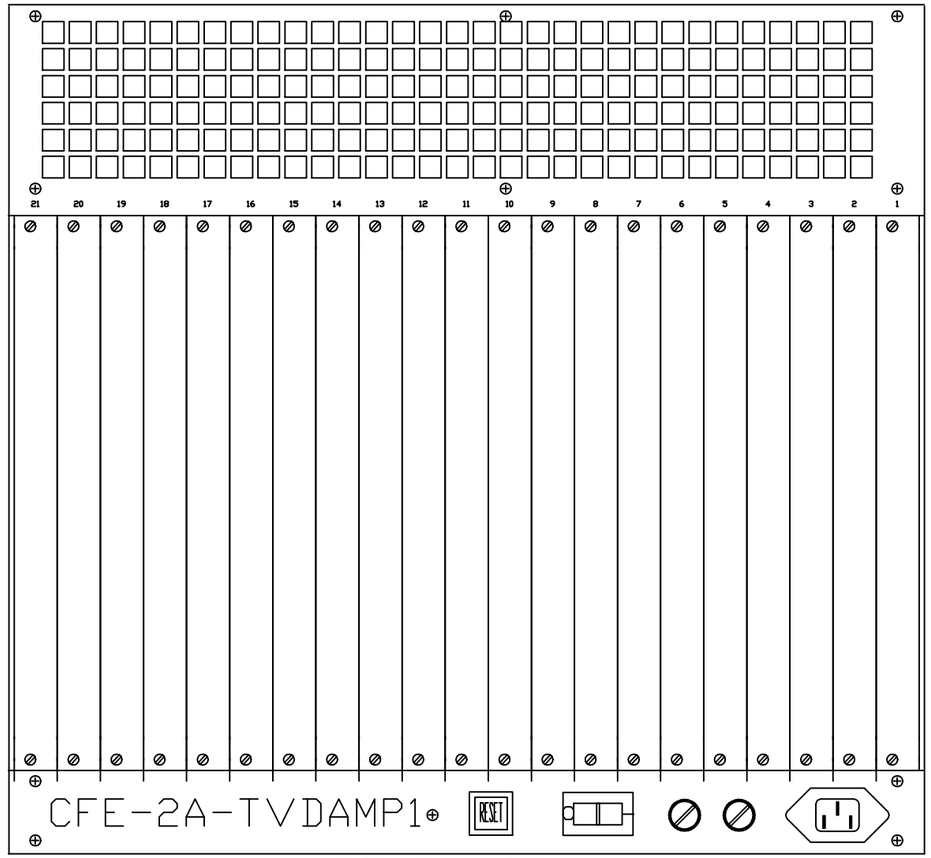
1 *AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

CONTROLS- 5/25/01 9:35 AM tvdamp1_chassis.dwg



FRONT VIEW



REAR VIEW

NOTE:

1. ALL UNUSED SLOTS, FRONT AND REAR

-3 QTY REQD	-2 QTY REQD	-1 QTY REQD	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO./BNL NO.
				9		
				8		
				7		
		1	SLOT 4	6	SEDNET	SD VME 200-2
		-	SEE NOTE 1	5	VME BLANK PANEL (ELECTRO-SPACE ESFE-2985)	
				4		
		1	SLOT 3	3	V108 UTILITY MODULE	94028094
		1	SLOT 1	2	FRONT END COMPUTER	MVME162-222
		1	N/A	1	VME CHASSIS	RHIC-93008000

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	BROOKHAVEN NATIONAL LABORATORY
DRAWN BY Koropsak	5/25/01	UPTON, N.Y. 11973
CHECKED BY		RHIC CONTROLS
DESIGN APPROVAL		SERVICE BLDG. 1002A
ENGINEER APPROVAL R. MICHNOFF	5/25/01	VME CHASSIS CFE-2A-TVDAMP1
SUPVR. APPROVAL		SIZE D · 94028xxx · REV. A
NEXT ASSEMBLY		DRAWING NUMBER
MATERIAL: ———	SCALE: NA	WEIGHT: – · SHEET 1 OF 1

*AUTOCAD