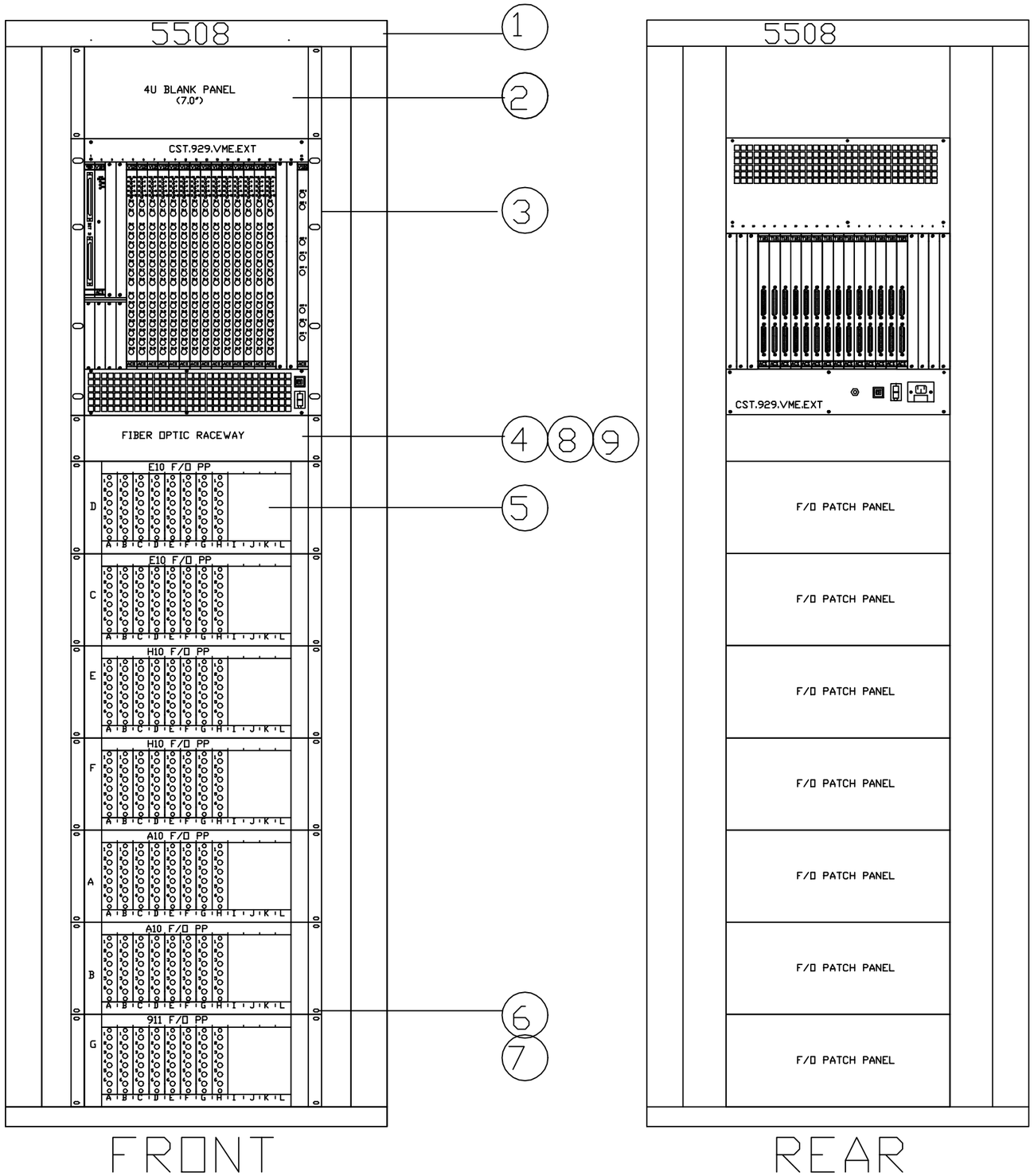


REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

-3	-2	-1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO./BNL NO.
		1	X	9	3X3 WIRING DUCT	A46420
		1	X	8	COVER WIRE DUCT 3'	A46432
		44	X	7	WASHER FINISHING	T84230
		44	X	6	OVAL HEAD SCREW 10-32 X 5/8	T59100
		7	X	5	FONS FO PATCH PANEL CHASSIS	X
		1	X	4	FO RACEWAY PANEL	A45503
		1	X	3	FO REC.MUX./DRIVER CHASSIS	X
		1	X	2	7' BLANK PANEL	A45507
		1	X	1	84' RACK	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°

OUTSTANDING ECN

NA FINISH

BREAK SHARP EDGES
MAX. XX MIN. XX

Q.A. CATEGORY A-3

		DATE
DRAWN BY	CZACHOR	05/23/97
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL		
SUPVR. APPROVAL		

NEXT ASSEMBLY

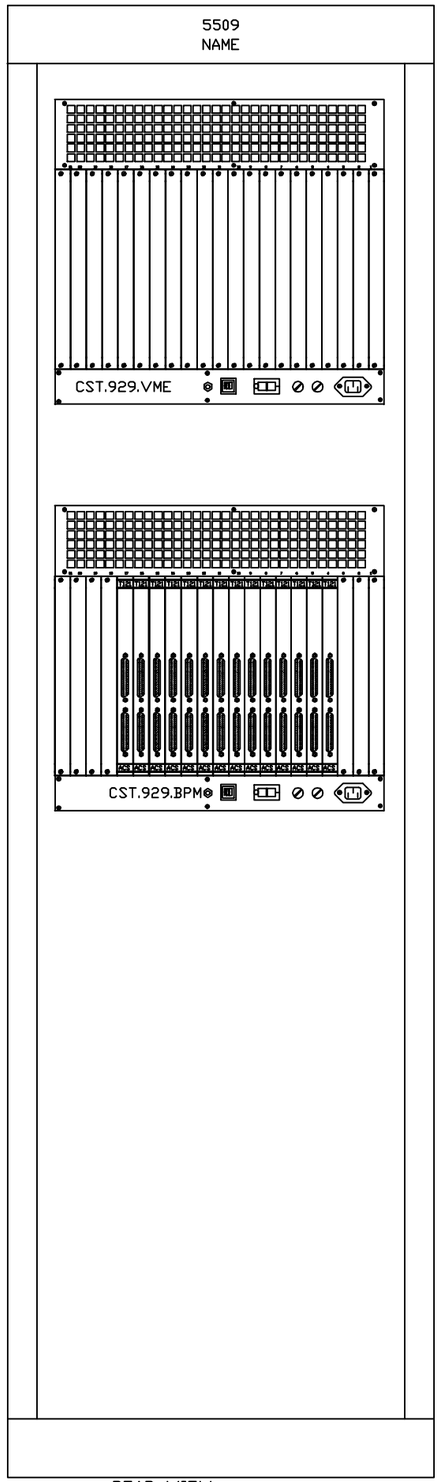
BROOKHAVEN NATIONAL LABORATORY
ASSOCIATED UNIVERSITIES, INC.
UPTON, N.Y. 11973

BEAM POSITION MONITOR
F/O REC/MUX;DRIVER;PP RACK
ASSEMBLY

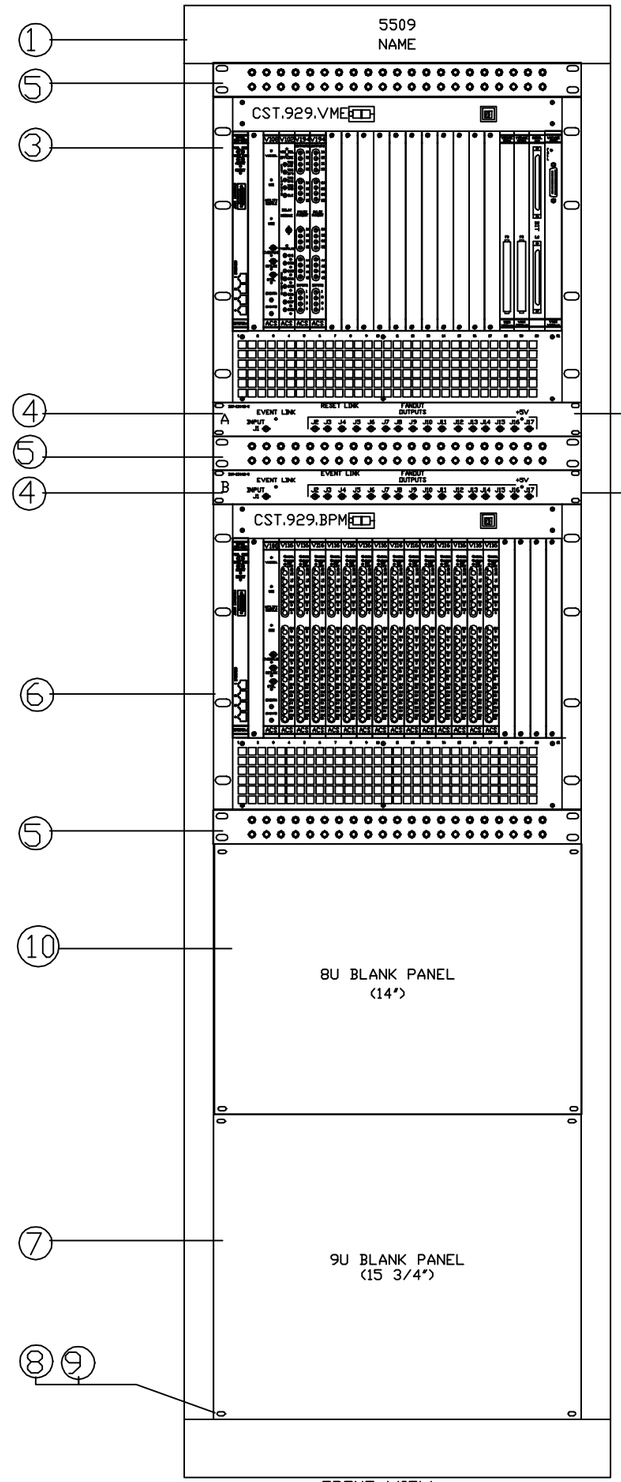
SIZE D
DRAWING NUMBER D09-E-XXXX
REV. A

MATERIAL: — N/A | SCALE: N/A | WEIGHT: N/A | SHEET 1 OF 1

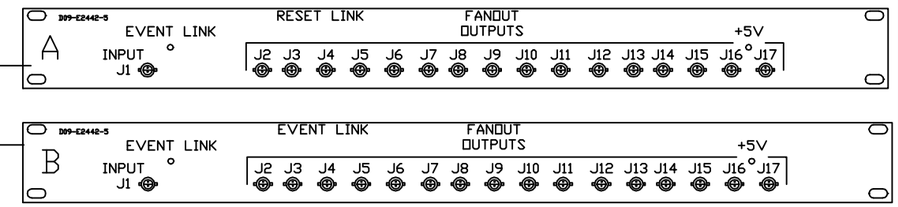
1 *AUTOCAD



REAR VIEW



FRONT VIEW



-3	-2	-1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L. DWG NO.,BML NO.
		1	X	10	14" BLANK PANEL	A45516
		40		9	WASHER FINISHING	T84230
		40		8	OVAL HEAD SCREW 10-32x5/8	T59100
		1		7	15.75 BLANK PANEL	A45517
		1		6	BPM SCALAR CHASSIS	X
		3		5	GROMMET PANEL	X
		2		4	FANOUT CHASSIS	D09-E-2442-5
		1		3	BPM ELECTRONICS CHASSIS	X
		1		2	NETWORK PANEL	X
		1		1	70" RACK	X

QTY REQD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

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	NAME	05/22/97
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL		
SUPVR. APPROVAL		

NEXT ASSEMBLY

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

BEAM POSITION MONITOR

SCALAR / SUPPORT RACK

ASSEMBLY

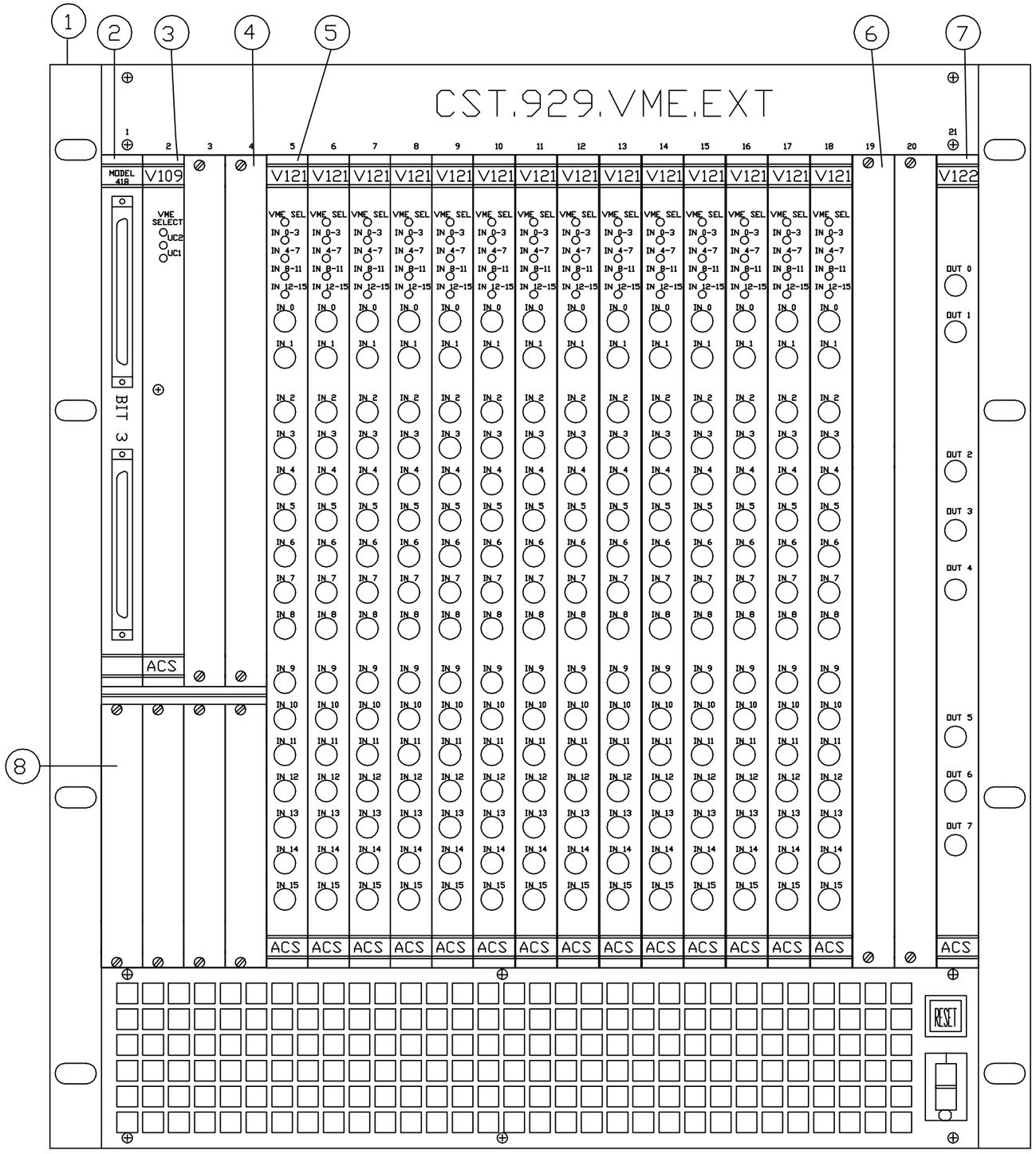
SIZE: D

DRAWING NUMBER: D09-E-XXXX

REV.: A

MATERIAL: — N/A | SCALE: N/A | WEIGHT: N/A | SHEET 1 OF 1

*AUTOCAD



REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

QTY REQD -3	QTY REQD -2	QTY REQD -1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO./BNL NO.
		4	S1-4	8	3U BLANK PANEL	X
		2	S21	7	V122 F/O DRIVER BD.	D09-E-2616-1
		2	S19-20	6	9U BLANK PANEL	X
		14	S5-18	5	V121 F/O MUX REC.	D09-E-2621-1
		2	S3,4	4	6U BLANK PANEL	X
		1	S2	3	V109 EXTENSION UTILITY MODULE	94028150
		1	S1	2	BIT3 BUSS EXTENDER BD.	MODEL 418-101
		1	1	1	VME 9U CHASSIS	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	CZACHOR	05/22/97
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL		
SUPVR. APPROVAL		

NEXT ASSEMBLY

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

BEAM POSITION MONITOR

9U F/O MUX DRIVER CHASSIS

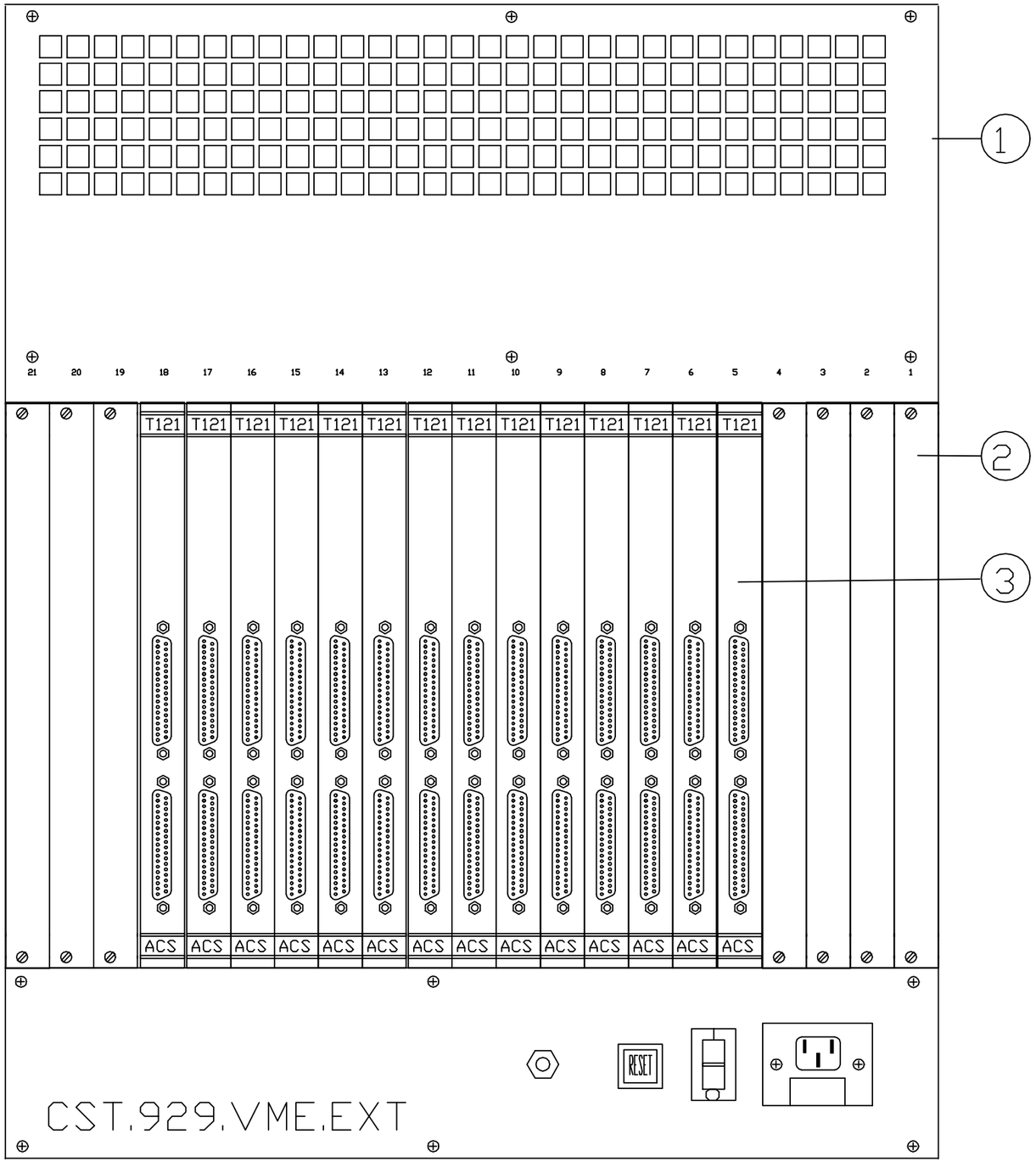
ASSEMBLY

SIZE D | DRAWING NUMBER D09-E-XXXX | REV. A

MATERIAL: — N/A | SCALE: N/A | WEIGHT: N/A | SHEET 1 OF 1

CST.XXX

*AUTOCAD



REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

QTY REQD -3	QTY REQD -2	QTY REQD -1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO./SPEC. NO.
		14	S5-18	3	T121 OUTPUT PANEL	X
		7	S1-4,19-21	2	6U BLANK PANEL	X
		1	1	1	VME 9U CHASSIS	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	CZACHOR	05/22/97
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL		
SUPVR. APPROVAL		

NEXT ASSEMBLY

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

BEAM POSITION MONITOR

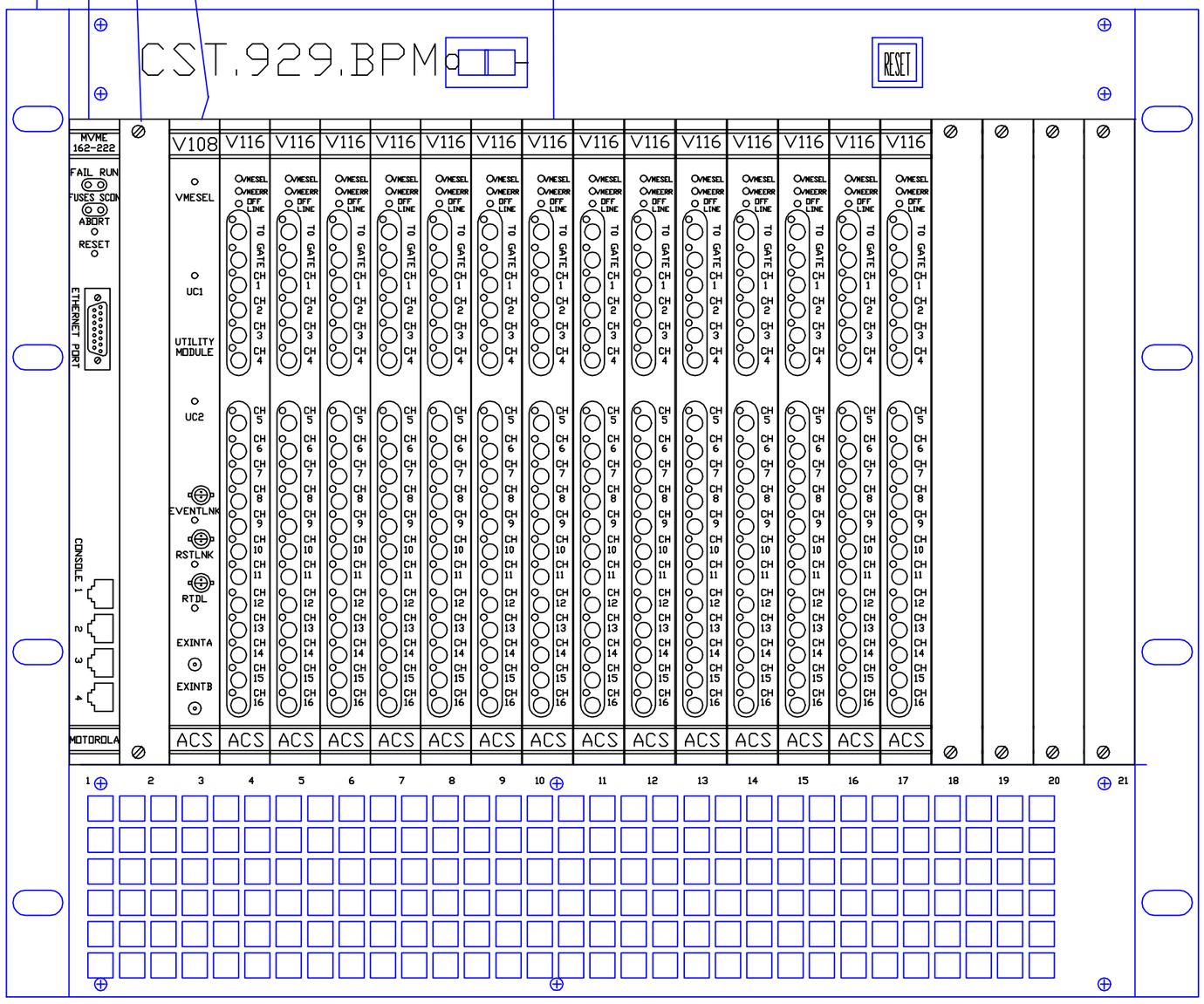
F/O RECIEVER MUX CHASSIS REAR

ASSEMBLY

SIZE D | DRAWING NUMBER D09-E-XXXX | REV. A

MATERIAL: — N/A | SCALE: N/A | WEIGHT: N/A | SHEET 1 OF 1

*AUTOCAD



-3	-2	-1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MATL DWG NO.,BNL NO.
		14	S4-17 5	5	V116 BNL BEAM POSITION MONITOR	D09-E-2638
		1	S3 4	4	V108 UTILITY MODULE	94028092
		5	S2,S18-21 3	3	6U BLANK PANEL	X
		1	S1 2	2	MOTOROLA CPU	MVME 162-222
		1	X 1	1	VME 6U 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	CZACHOR	05/21/97
CHECKED BY	CHECKED	CHKDATE
DESIGN APPROVAL	DESIGN	DESDATE
ENGINEER APPROVAL	ENGINEER	ENGDATE
SUPVR. APPROVAL	SUPDATE	MEDATE

NEXT ASSEMBLY

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

BEAM POSITION MONITOR

SCALAR CHASSIS

ASSEMBLY

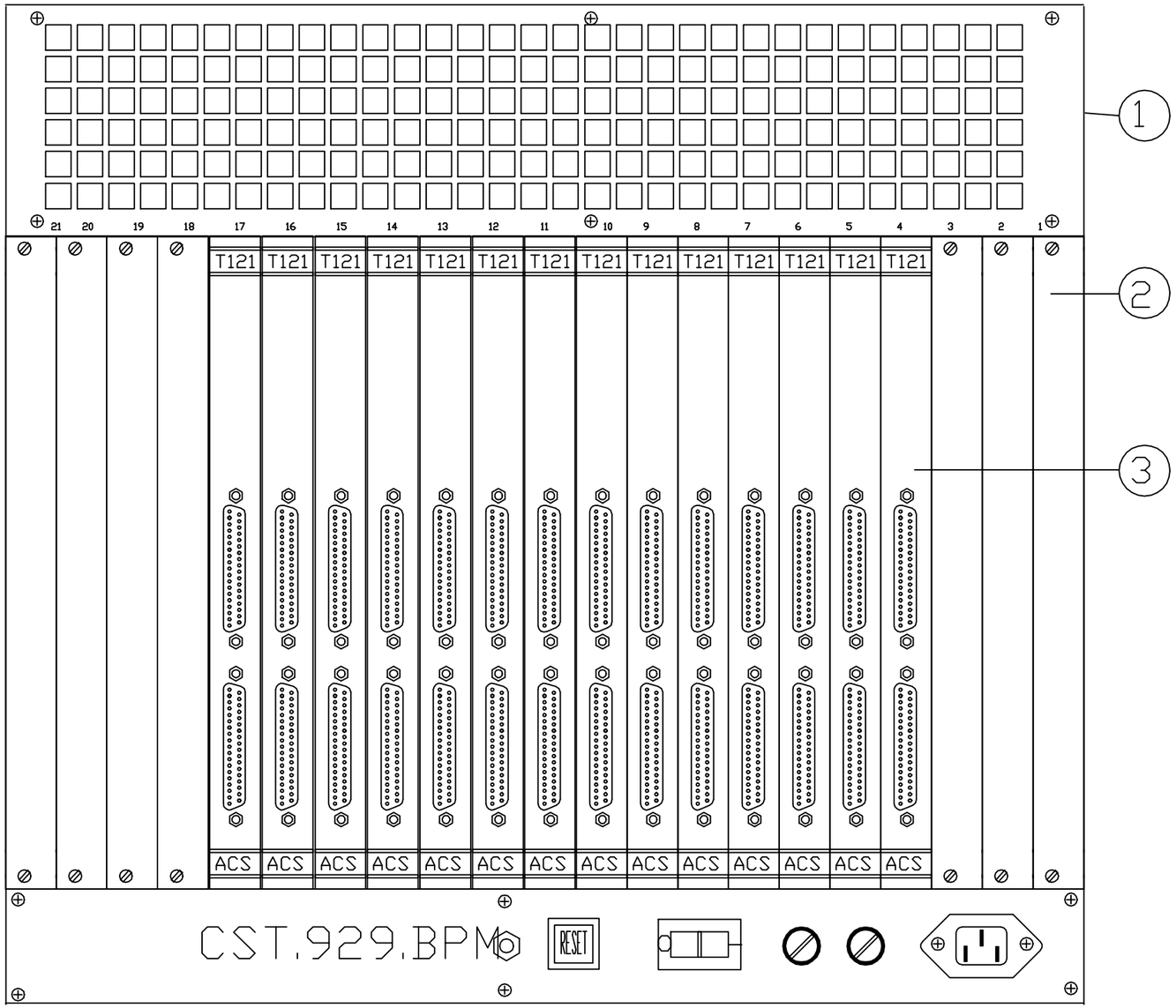
SIZE D

DRAWING NUMBER D09-E-XXXX

REV. A

MATERIAL: — N/A SCALE: N/A WEIGHT: N/A SHEET 1 OF 1

*AUTOCAD



REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

-3	-2	-1	QTY REQD	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO.,BNL NO.
		14	S4-18 3	3	T121 SCALAR REAR INPUT PANEL		X
		7	S1-3,S15-21 2	2	6U BLANK PANEL		X
		1	X 1	1	VME 6U 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	NAME	05/22/97
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL		
SUPVR. APPROVAL		

NEXT ASSEMBLY

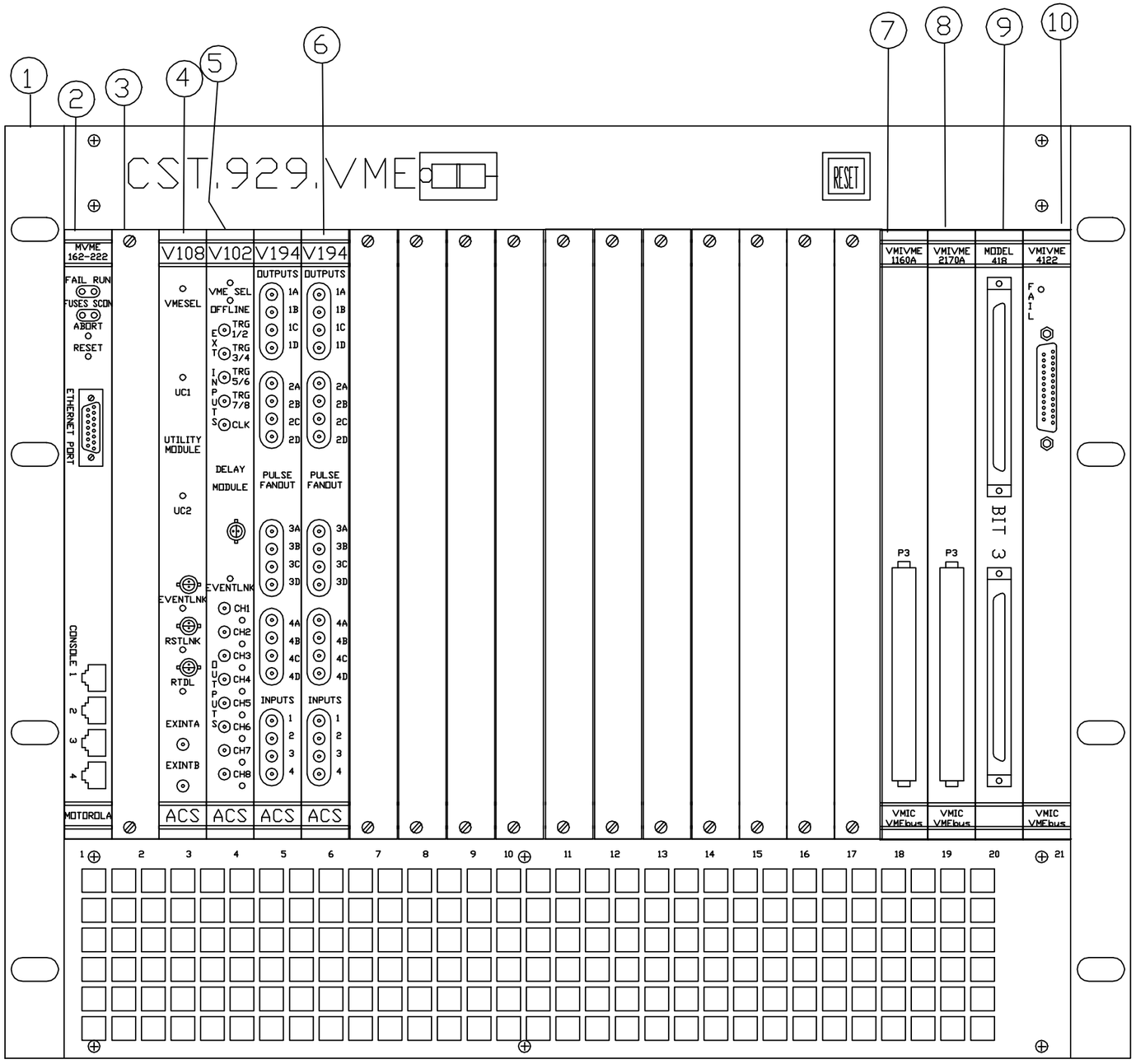
BROOKHAVEN NATIONAL LABORATORY
ASSOCIATED UNIVERSITIES, INC.
UPTON, N.Y. 11973

BEAM POSITION MONITOR
SCALAR CHASSIS REAR
ASSEMBLY

SIZE D
DRAWING NUMBER D09-E-XXXX
REV. A

MATERIAL: — N/A | SCALE: N/A | WEIGHT: N/A | SHEET 1 OF 1

*AUTOCAD



REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

QTY REQD -3	QTY REQD -2	QTY REQD -1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO.,BNL NO.
		1	S21	10	VME TO IEEE BD.	XXXX
		1	S20	9	BIT3 BUSS EXTENDER BD.	418-101
		1	S19	8	VMIC DIGITAL OUTPUT BD.	VMIVME2170A
		1	S18	7	VMIC DIGITAL INPUT BD.	VMIVME1160A
		2	S5,6	6	V194 PULSE FANOUT	94028194-1
		1	S4	5	V102 RHIC TIME DELAY MODULE	94028070
		1	S3	4	V108 UTILITY MODULE	94028092
		14	S2,S7-19	3	6U BLANK PANEL	X
		1	S1	2	MOTOROLA CPU BD.	MVME 162-222
		1	X	1	VME 6U CHASSIS	RHIC93008000

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	Name	05/22/97
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL		
SUPVR. APPROVAL		

NEXT ASSEMBLY

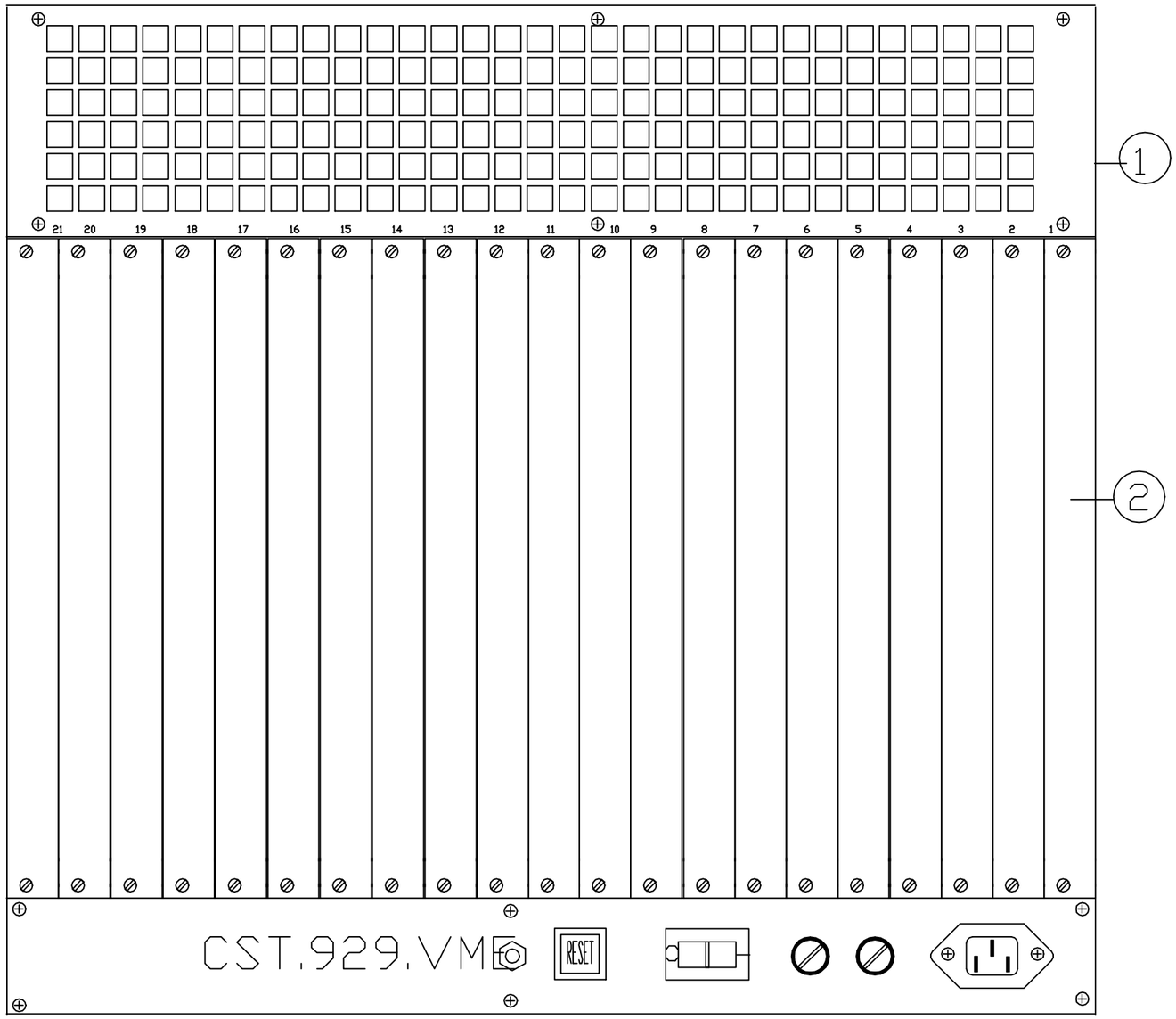
BROOKHAVEN NATIONAL LABORATORY
ASSOCIATED UNIVERSITIES, INC.
UPTON, N.Y. 11973

BEAM POSITION MONITOR
ELECTRONIC SUPPORT CHASSIS
ASSEMBLY

SIZE D | DRAWING NUMBER D09-E-XXXX | REV. A

MATERIAL: — N/A | SCALE: N/A | WEIGHT: N/A | SHEET 1 OF 1

*AUTOCAD



REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

-3	-2	-1	QTY REQD	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO.,SPL NO.
		21	2	S1-21 2	2	6U BLANK PANEL	X
		1	1	X 1	1	VME 6U 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	NAME	05/22/97
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL		
SUPVR. APPROVAL		

NEXT ASSEMBLY

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

BEAM POSITION MONITOR
ELECTRONIC SUPPORT CHASSIS REAR
ASSEMBLY

SIZE D | D09-E-XXXX | REV. A
DRAWING NUMBER

MATERIAL: — N/A | SCALE: N/A | WEIGHT: N/A | SHEET 1 OF 1

*AUTOCAD