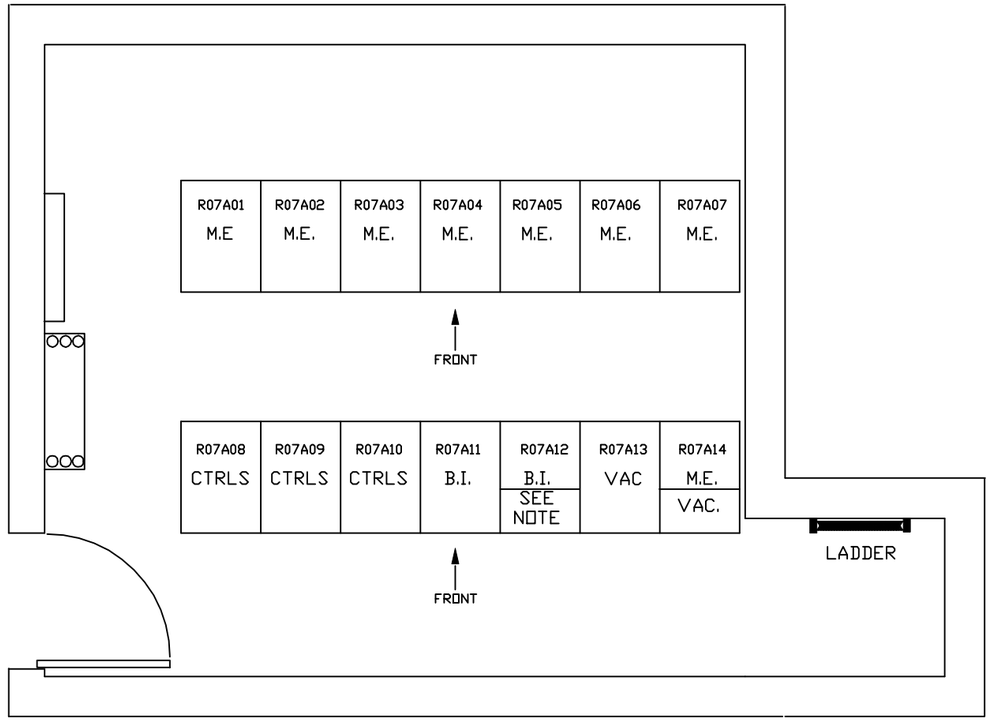
| REV. | ZONE | ECN NO. | DATE | BY | CKR | APP. |
|---|---|---|---|---|---|---|




## NOTE

M.E. - MAGNET ELECTRICAL
CTRLS - CONTROLS
VAC - VACUUM
B.I. - BEAM INSTRUMENTATION
NOTE - THIS HALF RACK WILL BE BEAM INSTRUMENTATION OR VACUUM GROUP DEPENDING ON SEXTANT TEST RESULTS.

| QTY REQD -3 | QTY REQD -2 | QTY REQD -1 | REF DESIGNATOR | ITEM NO. | DESCRIPTION | MAT'L DWG NO./BNL NO. |
|---|---|---|---|---|---|---|
| | | 1 | R07A10 | 5 | RACK R07A10 ASSEMBLY | 94028587 |
| | | 1 | R07A09 | 4 | RACK R07A09 ASSEMBLY | 94028585 |
| | | 1 | R07A08 | 3 | RACK R07A08 ASSEMBLY | 94028584 |
| | | 1 | | 2 | RACKS R07A01 - R07A07 ASSEMBLY | 94028588 |
| | | 1 | | 1 | RHIC CONTROLS BLDG. 1007A WIRING DIAGRAM | 94028595 |

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.24M-1989
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
DECIMAL TOLERANCES .X ±NA .XX ±NA .XXX ±NA
ANGULAR TOLERANCE ± .5°
OUTSTANDING ECN
NA FINISH
BREAK SHARP EDGES MAX. XX MIN. XX

Q.A. CATEGORY A-3

| | | DATE |
|---|---|---|
| DRAWN BY | Ed Koropsak | 3/2/98 |
| CHECKED BY | | |
| DESIGN APPROVAL | | |
| ENGINEER APPROVAL | R. MICHNOFF | 3/2/98 |
| SUPVR. APPROVAL | | |

NEXT ASSEMBLY

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

RHIC CONTROLS

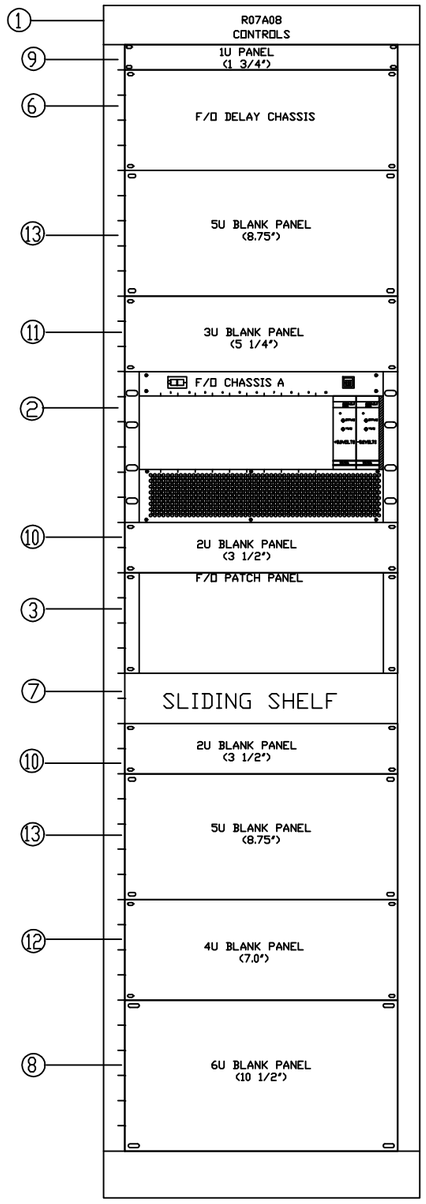
# ALCOVE 1007A FLOOR PLAN

SIZE D | DRAWING NUMBER 94028580 | REV. A
MATERIAL: ——— | SCALE: NA | WEIGHT: – | SHEET 1 OF 1

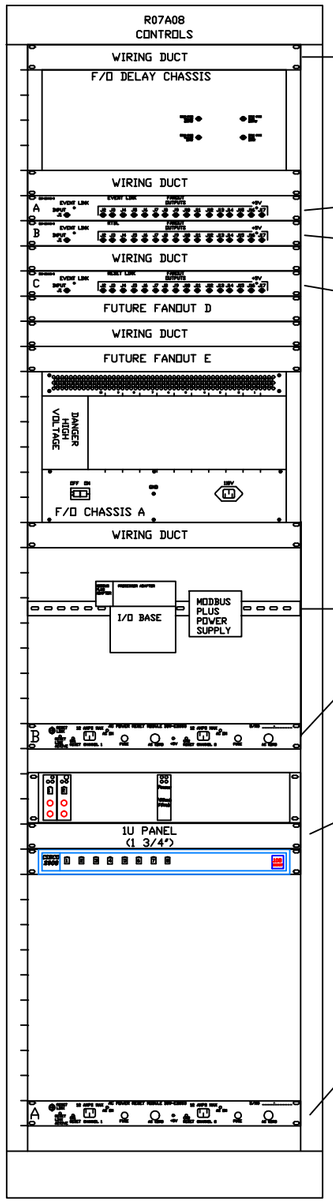
*AUTOCAD

| REV. | ZONE | ECN NO. | DATE | BY | CKR | APP. |
|---|---|---|---|---|---|---|

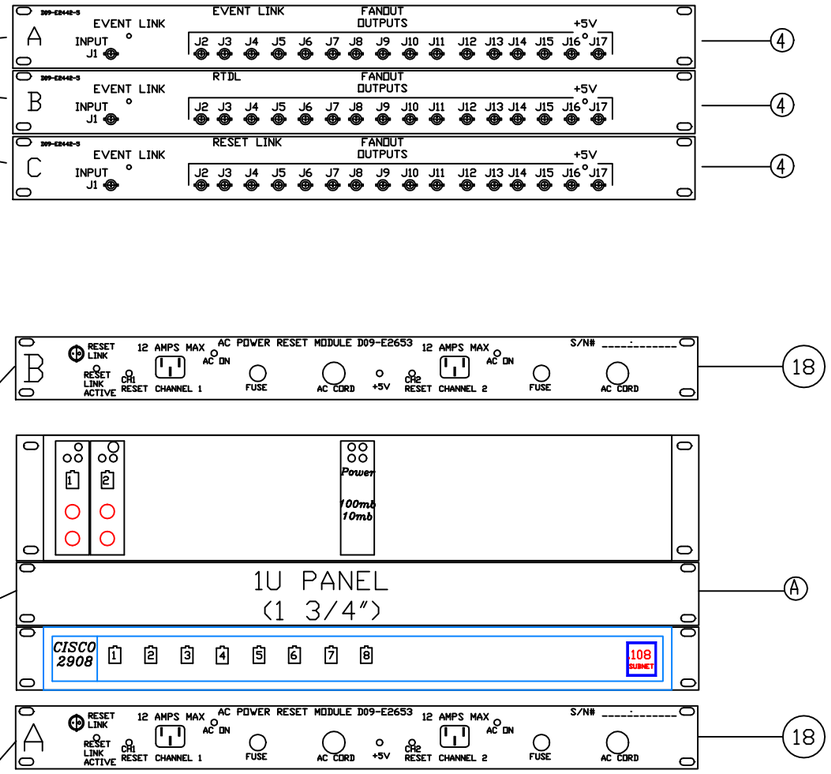
CONTROLS- 5/29/03 9:50 AM8581.dwg




FRONT VIEW




REAR VIEW




| | | QTY REQD | REF DESIGNATOR | ITEM NO. | DESCRIPTION | MAT'L DWG NO./BNL NO. |
|---|---|---|---|---|---|---|
| | | 2 | A,B | 18 | AC POWER RESET MODULE | D09-E2653 |
| | | 1 | N/A | 17 | MODICON HARDWARE | X |
| | | 10 | N/A | 16 | WIRING DUCT SNAP CLIPS 1.5"W (PANDUIT S1.5-C) | X |
| | | 5 | N/A | 15 | WIRING DUCT COVER 1.5"W (PANDUIT C1.5LG6) | X |
| | | 5 | N/A | 14 | WIRING DUCT 1.5"W x 4"D (PANDUIT E1.5X4LG6) | X |
| | | 2 | N/A | 13 | 5U x 19" BLANK PANEL (PREMIER METAL ARP-819-553) | X |
| | | 1 | 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 |
| | | 2 | N/A | 10 | 2U x 19" BLANK PANEL (PREMIER METAL ARP-319-553) | X |
| | | 1 | N/A | 9 | 1U x 19" BLANK PANEL (PREMIER METAL ARP-119-553) | X |
| | | 1 | N/A | 8 | 6U x 19" BLANK PANEL (PREMIER METAL ARP-1019-553) | X |
| | | 1 | N/A | 7 | SLIDING SHELF (PREMIER METAL TWS-319) | X |
| | | 1 | N/A | 6 | FIBER OPTIC DELAY CHASSIS ASSY. | 94028277 |
| | | 1 | A | 5 | ETHERNET REPEATER | X |
| | | 3 | A,B,C | 4 | FANOUT ASSEMBLY | D09-E2442 |
| | | 1 | N/A | 3 | FIBER OPTIC PATCH PANEL | X |
| | | 1 | N/A | 2 | F/O CHASSIS A | 94028348 |
| | | 1 | N/A | 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°

NA — FINISH

BREAK SHARP EDGES
MAX. XX MIN. XX

OUTSTANDING ECN

NEXT ASSEMBLY

| | | |
|---|---|---|
| Q.A. CATEGORY | A-3 | DATE |
| DRAWN BY | Venegas | 8/10/99 |
| CHECKED BY | | |
| DESIGN APPROVAL | | |
| ENGINEER APPROVAL | R. MICHNOFF | 10/23/97 |
| SUPVR. APPROVAL | | |

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973
RHIC CONTROLS
ALCOVE 1007A
RACK R07A8 ASSEMBLY

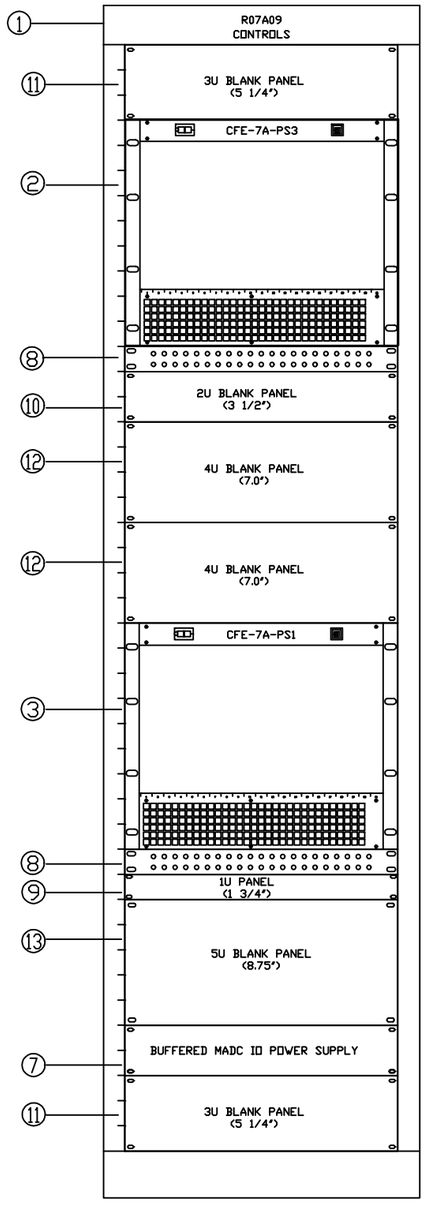
SIZE D — 94028581 — REV. A
DRAWING NUMBER

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

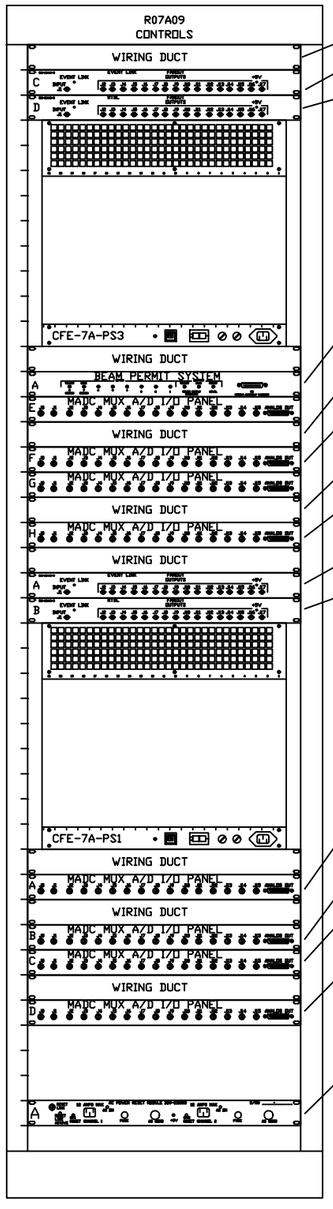
*AUTOCAD

| REV. | ZONE | ECN NO. | DATE | BY | CKR | APP. |
|---|---|---|---|---|---|---|

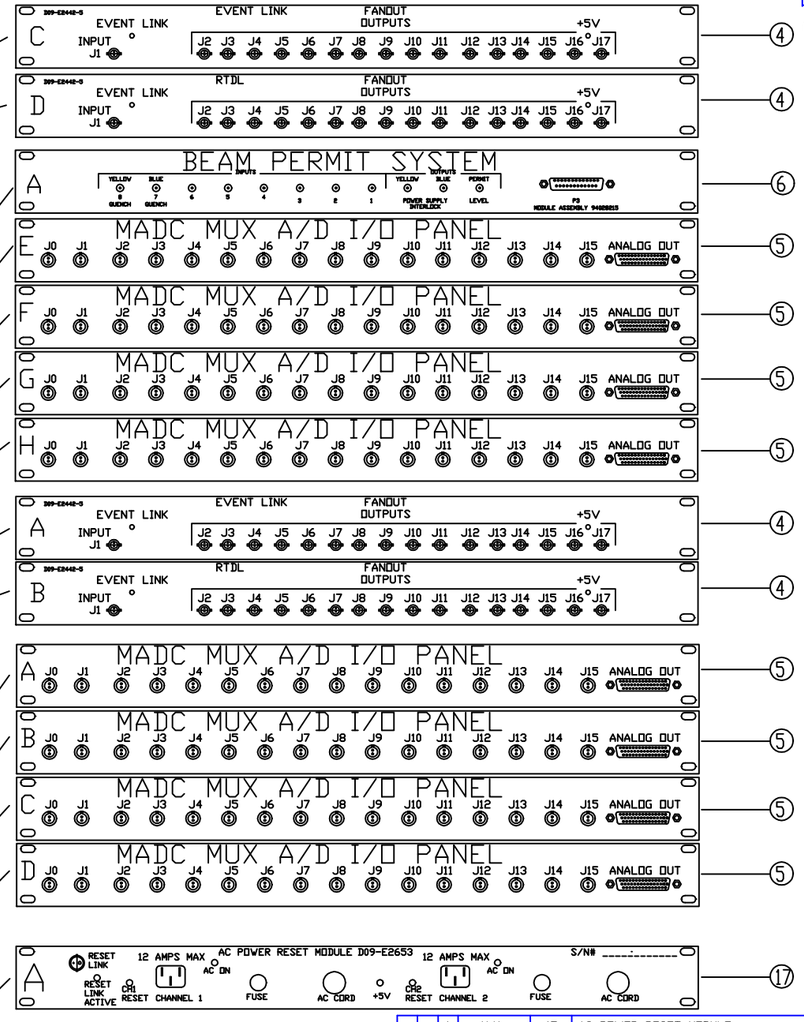
ACS, BNL 8/23/00 8:59 AM 8582.dwg




FRONT VIEW




REAR VIEW




| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | 1 | N/A | 17 | AC POWER RESET MODULE | | D09-E2653 |
| | | 16 | N/A | 16 | WIRING DUCT SNAP CLIPS 1.5"W (PANDUIT S1.5-C) | | X |
| | | 8 | N/A | 15 | WIRING DUCT COVER 1.5"W (PANDUIT C1.5LG6) | | X |
| | | 8 | N/A | 14 | WIRING DUCT 1.5"W x 4"D (PANDUIT E1.5X4LG6) | | X |
| | | 1 | 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 |
| | | 2 | N/A | 11 | 3U x 19" BLANK PANEL (PREMIER METAL ARP-519-553) | | X |
| | | 1 | N/A | 10 | 2U x 19" BLANK PANEL (PREMIER METAL ARP-319-553) | | X |
| | | 1 | N/A | 9 | 1U x 19" BLANK PANEL (PREMIER METAL ARP-119-553) | | X |
| | | 2 | N/A | 8 | GROMMET PANEL | | 94028410 |
| | | 1 | N/A | 7 | BUFFERED MADC POWER SUPPLY | | 94028808 |
| | | 1 | A | 6 | BEAM PERMIT SYSTEM INTERFACE PANEL | | 94028215 |
| | | 8 | A-H | 5 | BUFFERED MADC A/D I/O PANEL | | 94028670 |
| | | 4 | A,B,C,D | 4 | FANOUT ASSEMBLY | | D09-E2442 |
| | | 1 | N/A | 3 | VME CHASSIS CFE-5C-PS1 ASSY. | | 94028300 |
| | | 1 | N/A | 2 | VME CHASSIS CFE-5C-PS3 ASSY. | | 94028299 |
| | | 1 | N/A | 1 | 19" RACK, 77"H RACK SPACE | | X |
| -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

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 | 8/10/99 |
| CHECKED BY | | |
| DESIGN APPROVAL | | |
| ENGINEER APPROVAL | R. MICHNOFF | 10/28/97 |
| SUPVR. APPROVAL | | |

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973
RHIC CONTROLS
ALCOVE 1007A
RACK R07A09 ASSEMBLY

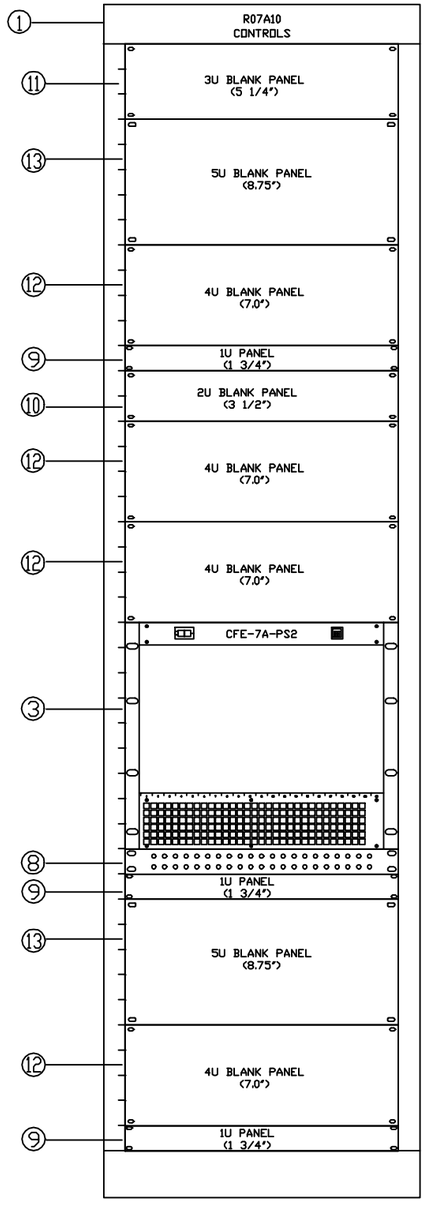
SIZE D | 94028582 DRAWING NUMBER | REV. A

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

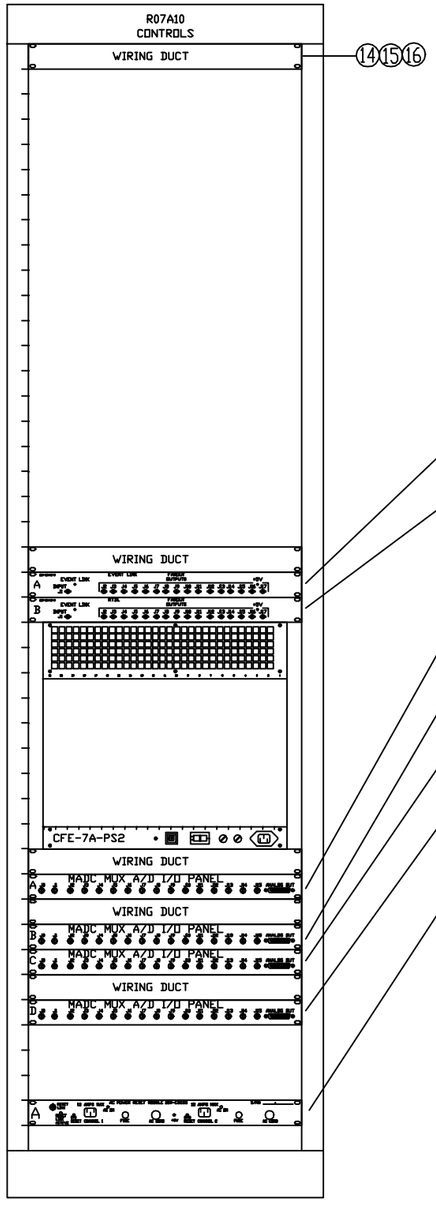
*AUTOCAD

| REV. | ZONE | ECN NO. | DATE | BY | CKR | APP. |
|---|---|---|---|---|---|---|

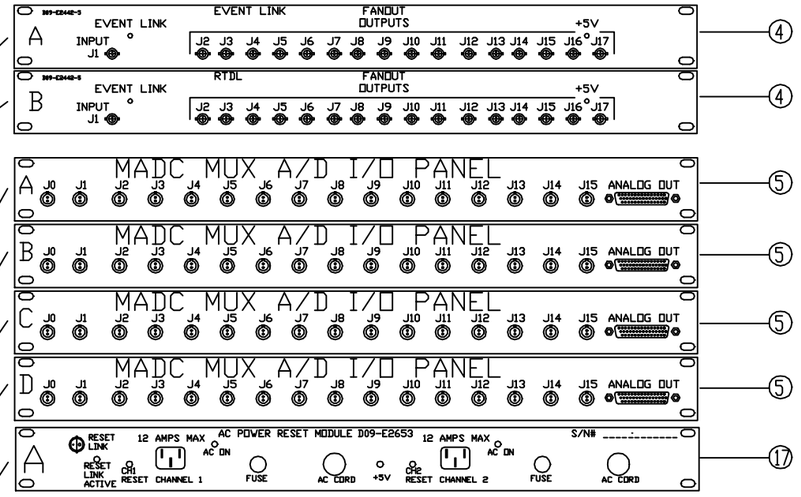
ACS, BNL 8/23/00 9:03 AM8583.dwg




FRONT VIEW




REAR VIEW




| QTY REQD | REF DESIGNATOR | ITEM NO. | DESCRIPTION | MAT'L SPEC NO./DWG NO./PART NO. |
|---|---|---|---|---|
| 1 | N/A | 17 | AC POWER RESET MODULE | D09-E2653 |
| 10 | N/A | 16 | WIRING DUCT SNAP CLIPS 1.5"W (PANDUIT S1.5-C) | X |
| 5 | N/A | 15 | WIRING DUCT COVER 1.5"W (PANDUIT C1.5LG6) | X |
| 5 | N/A | 14 | WIRING DUCT 1.5"W x 4"D (PANDUIT E1.5X4LG6) | X |
| 2 | N/A | 13 | 5U x 19" BLANK PANEL (PREMIER METAL ARP-819-553) | X |
| 4 | 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 | 2U x 19" BLANK PANEL (PREMIER METAL ARP-319-553) | X |
| 3 | N/A | 9 | 1U x 19" BLANK PANEL (PREMIER METAL ARP-119-553) | X |
| 2 | N/A | 8 | GROMMET PANEL | 94028410 |
| X | X | 7 | X | X |
| X | X | 6 | X | X |
| 4 | A,B,C,D | 5 | BUFFERED MADC A/D I/O PANEL | 94028670 |
| 2 | A,B | 4 | FANOUT ASSEMBLY | D09-E2442 |
| 1 | N/A | 3 | VME CHASSIS CFE-3B-PS2 ASSY. | 94028351 |
| X | X | 2 | X | X |
| 1 | N/A | 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

| | | |
|---|---|---|
| DRAWN BY | Venegas | 8/10/99 |
| CHECKED BY | | |
| DESIGN APPROVAL | | |
| ENGINEER APPROVAL | R. MICHNOFF | 10/23/97 |
| SUPVR. APPROVAL | | |

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973
RHIC CONTROLS
ALCOVE 1007A
RACK R07A10 ASSEMBLY

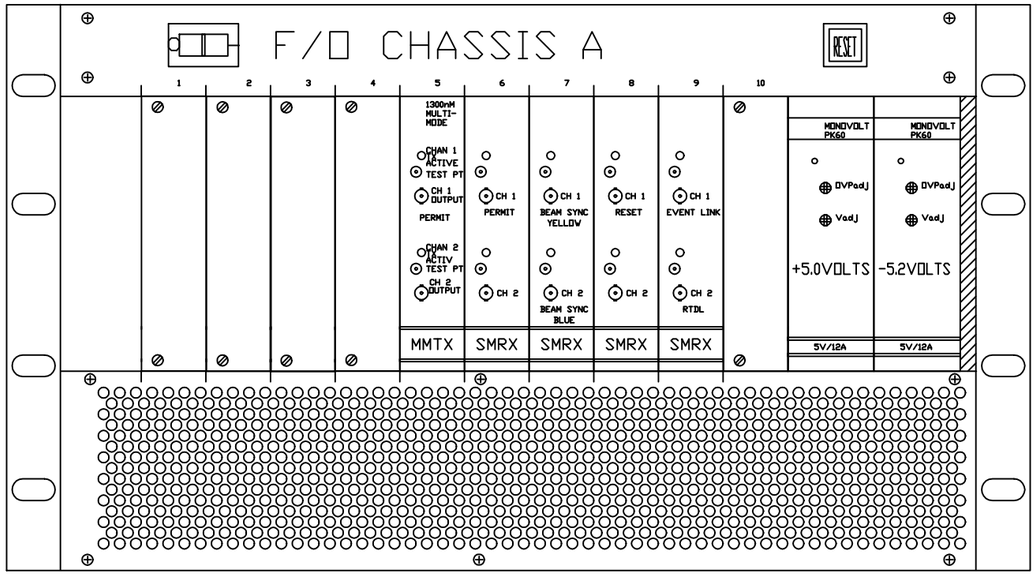
SIZE D | DRAWING NUMBER 94028583 | REV. A

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

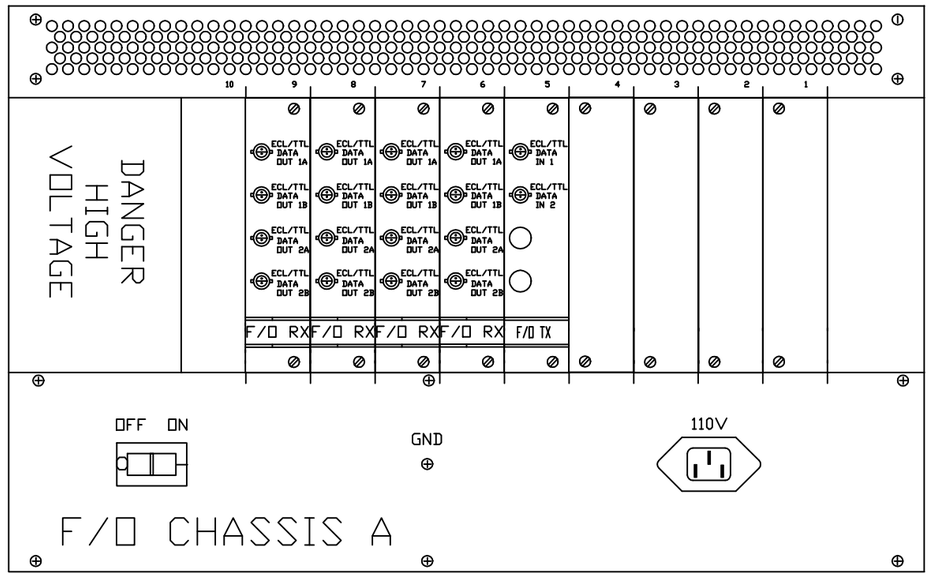
*AUTOCAD

| REV. | ZONE | ECN NO. | DATE | BY | CKR | APP. |
|---|---|---|---|---|---|---|

Controls 8/10/99 8:52 AM 8584.dwg




FRONT VIEW




REAR VIEW

| QTY REQD | REF DESIGNATOR | ITEM NO. | DESCRIPTION | MAT'L DWG NO./BNL NO. |
|---|---|---|---|---|
| 1 | SLOT 7 | 7 | 3U FIBER OPTIC RECEIVER TRANSITION MODULE, ECL | D09-E2541-3 |
| 6 | 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 | SLOT6,7,8,9 | 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°

OUTSTANDING ECN

NA FINISH

BREAK SHARP EDGES
MAX. XX MIN. XX

Q.A. CATEGORY A-3

| | | |
|---|---|---|
| DRAWN BY | Venegas | 8/10/99 |
| CHECKED BY | | |
| DESIGN APPROVAL | | |
| ENGINEER APPROVAL | R. MICHNOFF | 10/20/97 |
| SUPVR. APPROVAL | | |

NEXT ASSEMBLY

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

RHIC CONTROLS

ALCOVE 1007A RACK R07A08

F/O CHASSIS A ASSY.

SIZE D

94028584

REV. A

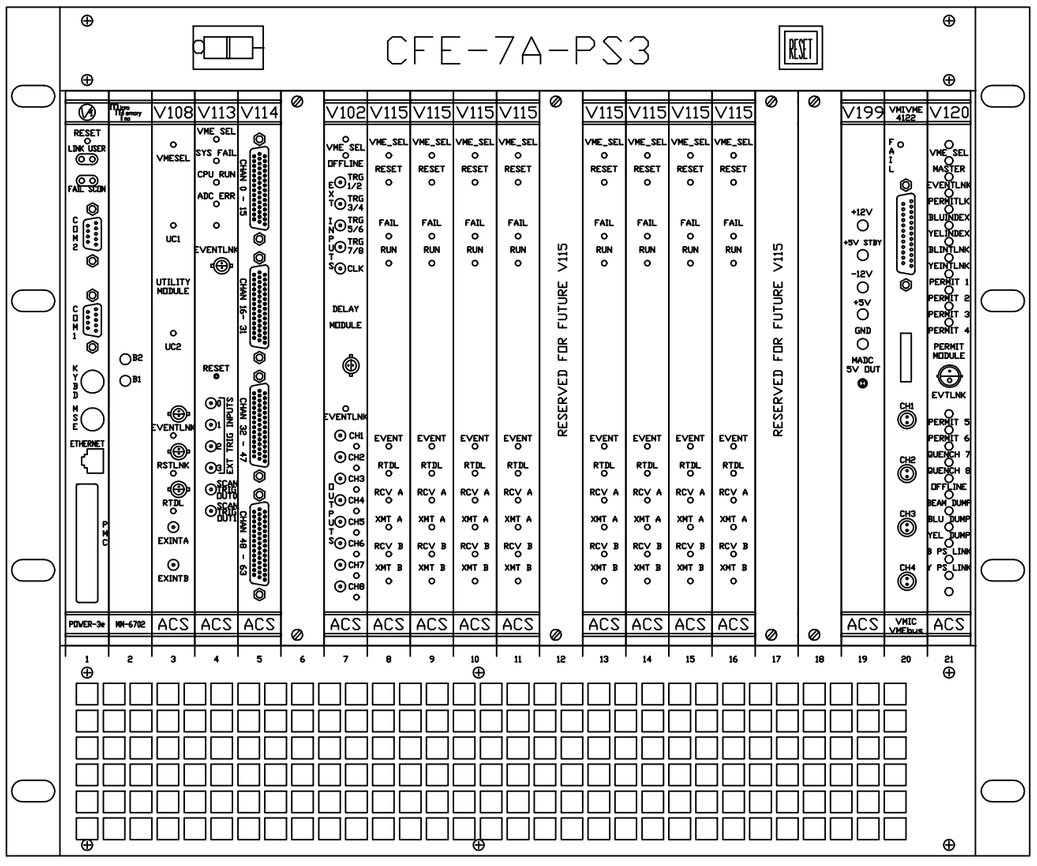
DRAWING NUMBER

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

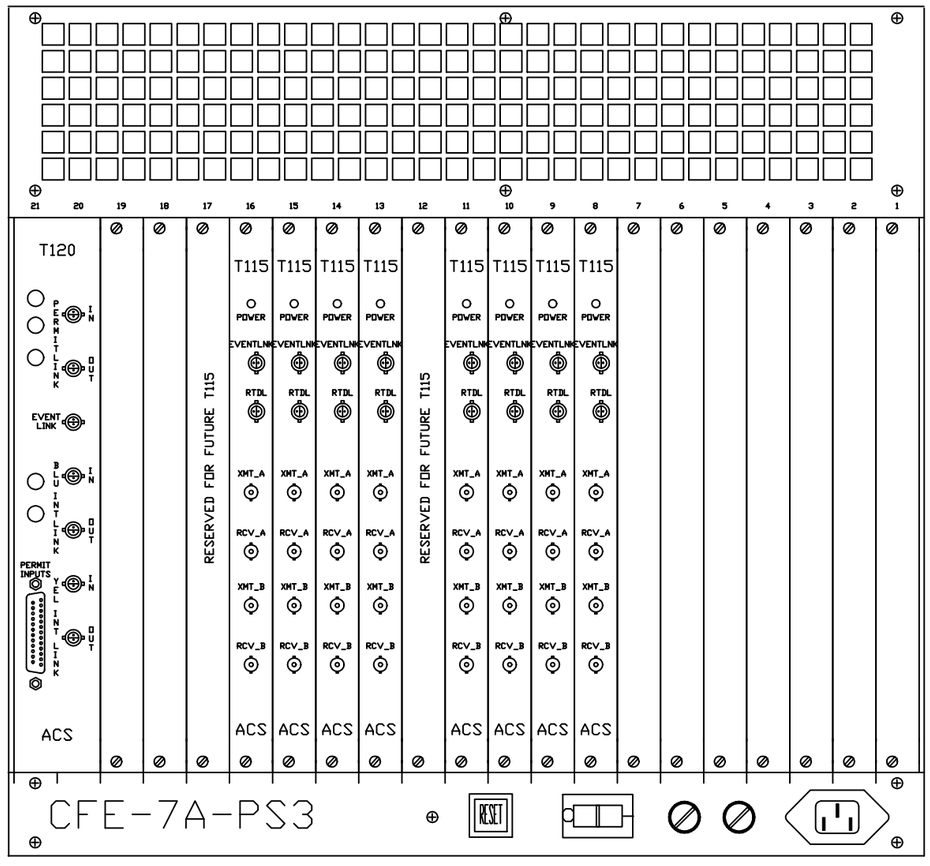
*AUTOCAD

| REV. | ZONE | ECN NO. | DATE | BY | CKR | APP. |
|---|---|---|---|---|---|---|

CONTROLS- 6/17/03 8:35 AM 8585.dwg




FRONT VIEW




REAR VIEW

NOTE:

1. ALL UNUSED SLOTS, FRONT AND REAR

| QTY REQD | REF DESIGNATOR | ITEM NO. | DESCRIPTION | MAT'L DWG NO./BNL NO. |
|---|---|---|---|---|
| | 1 SLOT 19 | 17 | V199 VOLTAGE MONITOR BD | XXXXXX |
| | 4 SL 13-16 | 16 | T115 WAVEFORM GENERATOR TRANSITION MODULE | 94028126 |
| | 4 SL 13-16 | 15 | V115 WAVEFORM GENERATOR MODULE | 94028108 |
| | 4 SL 8-11 | 14 | T115 WAVEFORM GENERATOR TRANSITION MODULE | 94028126 |
| | 4 SL 8-11 | 13 | V115 WAVEFORM GENERATOR MODULE | 94028108 |
| | 1 SLOT 2 | 12 | MM-6702 MEMORY MODULE (MICRO MEMORY) | |
| | 1 SLOT 20 | 11 | VMIVME 4122 | 94028793 |
| | 16 SEE NOTE 1 | 10 | VME BLANK PANEL (ELECTRO-SPACE ESFE-2985) | |
| | 1 SLOT 21 | 9 | T120 PERMIT SYSTEM TRANSITION MODULE | 94028199-2 |
| | 1 SLOT 21 | 8 | V120 PERMIT SYSTEM MODULE | 94028077 |
| | 1 SLOT 7 | 7 | V102 DELAY MODULE | 94028072 |
| | | 6 | | |
| | 1 SLOT5 | 5 | V114 MADC A/D CONVERTER MODULE | 94028226 |
| | 1 SLOT4 | 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 | 8/10/99 |
| CHECKED BY | | |
| DESIGN APPROVAL | | |
| ENGINEER APPROVAL | R. MICHNOFF | 10/28/97 |
| SUPVR. APPROVAL | | |

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973
RHIC CONTROLS
ALCOVE 1007A RACK R07A09
VME CHASSIS CFE-7A-PS3

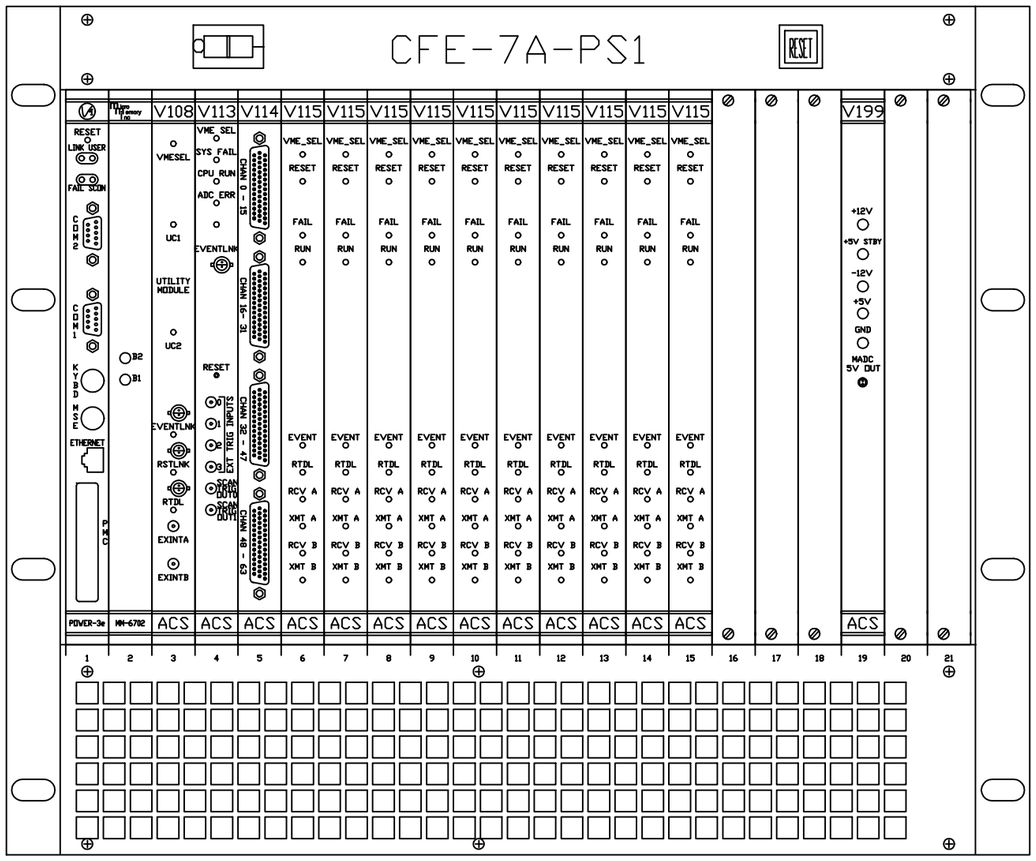
SIZE D | 94028585 DRAWING NUMBER | REV. A

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

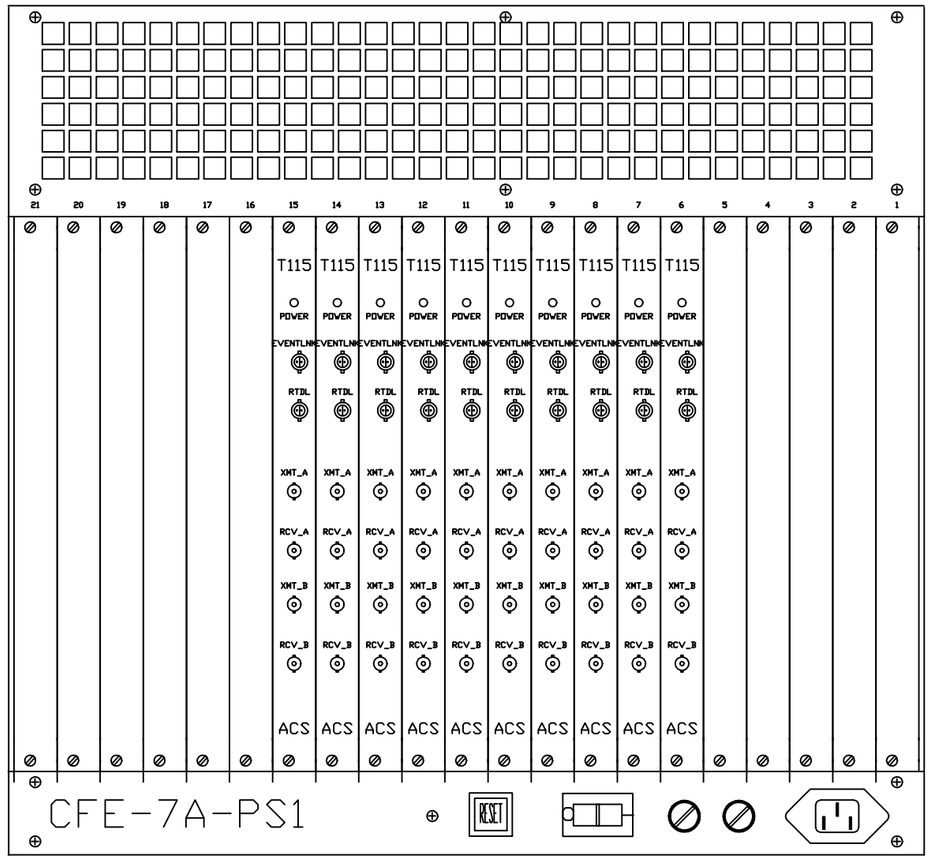
*AUTOCAD

| REV. | ZONE | ECN NO. | DATE | BY | CKR | APP. |
|---|---|---|---|---|---|---|

CONTROLS- 6/17/03 8:37 AM 8586.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 | 1 | SLOT 19 | 10 | V199 VOLTAGE MONITOR BD | XXXXXXX |
| | | 1 | 1 | SLOT 2 | 9 | MM-6702 MEMORY MODULE (MICRO MEMORY) | |
| | | 9 | 9 | SEE NOTE 1 | 8 | VME BLANK PANEL (ELECTRO-SPACE ESFE-2985) | |
| | | 10 | 10 | SLOT 6-15 | 7 | T115 WAVEFORM GENERATOR TRANSITION MODULE | 94028126 |
| | | 10 | 10 | SLOT 6-15 | 6 | V115 WAVEFORM GENERATOR MODULE | 94028108 |
| | | 1 | 1 | SLOT5 | 5 | V114 MADC A/D CONVERTER MODULE | 94028226 |
| | | 1 | 1 | SLOT4 | 4 | V113 MADC CONTROLLER MODULE | 94028140 |
| | | 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'

NA FINISH

BREAK SHARP EDGES MAX. XX MIN. XX

OUTSTANDING ECN

Q.A. CATEGORY A-3

| | | |
|---|---|---|
| DRAWN BY | Venegas | 8/10/99 |
| CHECKED BY | | |
| DESIGN APPROVAL | | |
| ENGINEER APPROVAL | R. MICHNOFF | 10/28/97 |
| SUPVR. APPROVAL | | |

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973
RHIC CONTROLS
ALCOVE 100A7 RACK R07A09
VME CHASSIS CFE-7A-PS1

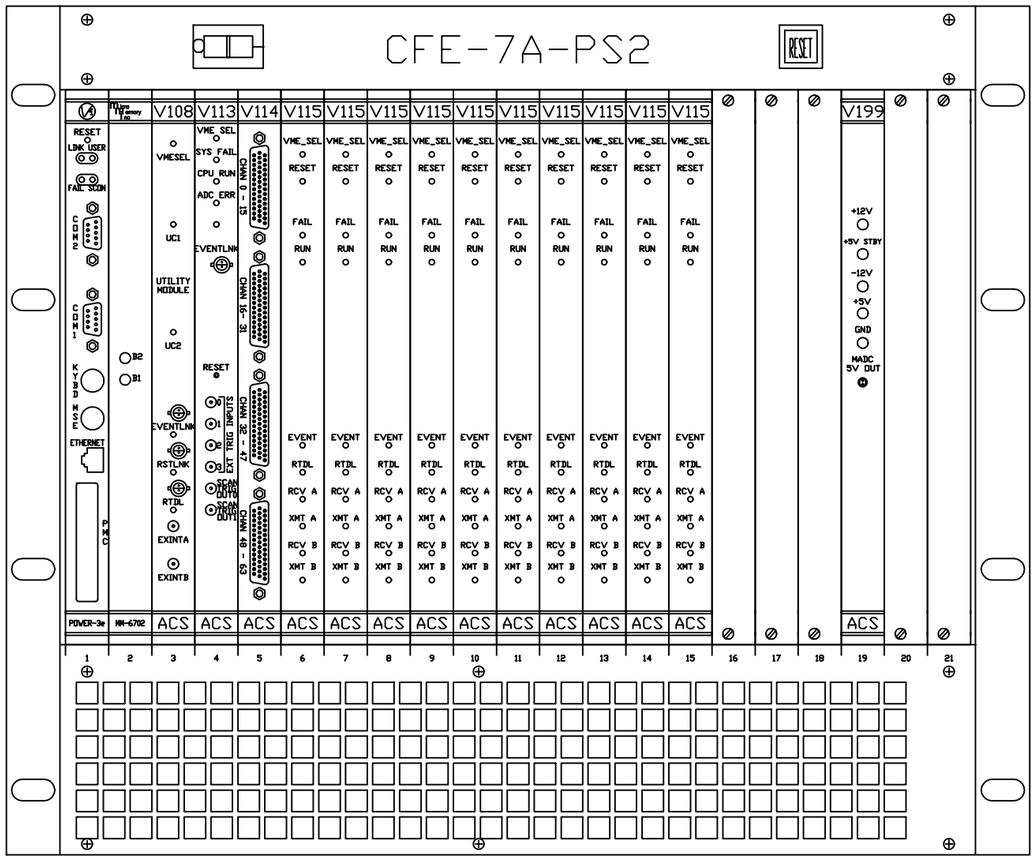
SIZE D | DRAWING NUMBER 94028586 | REV. A

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

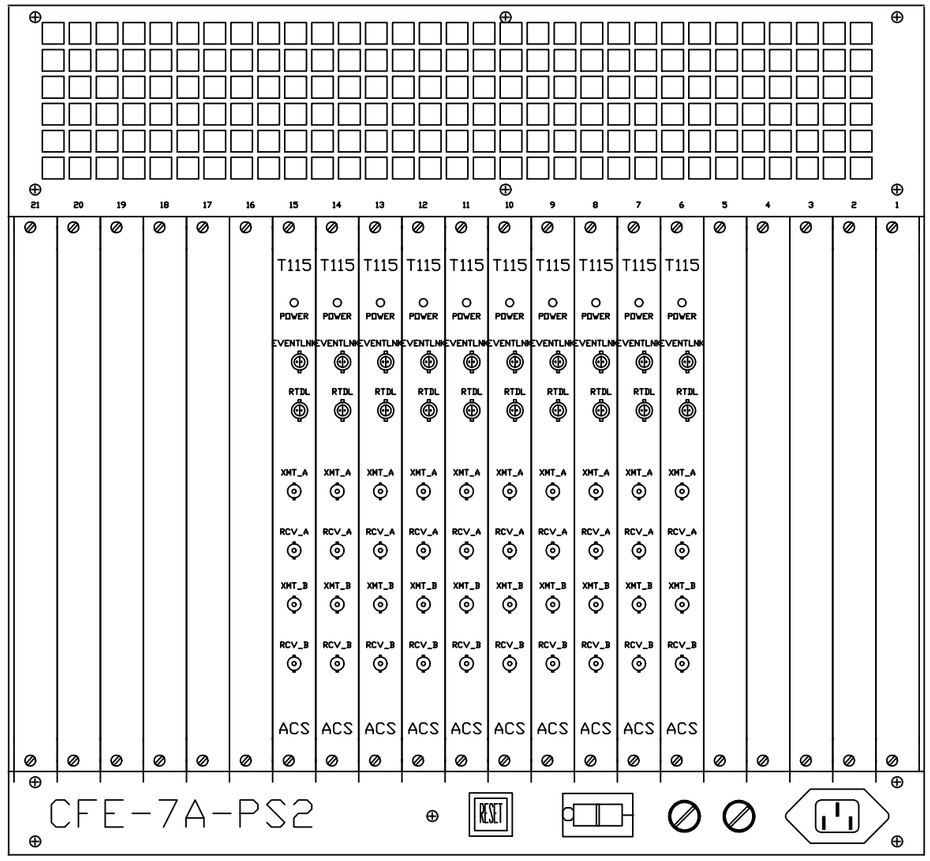
8 7 6 5 4 3 2 1 *AUTOCAD

| REV. | ZONE | ECN NO. | DATE | BY | CKR | APP. |
|---|---|---|---|---|---|---|

CONTROLS- 6/17/03 8:39 AM 8587.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 | 1 | SLOT 19 | 10 | V199 VOLTAGE MONITOR BD | XXXXXX |
| | | 1 | 1 | SLOT 2 | 9 | MM-6702 MEMORY MODULE (MICRO MEMORY) | |
| | | 17 | 17 | SEE NOTE 1 | 8 | VME BLANK PANEL (ELECTRO-SPACE ESFE-2985) | |
| | | 10 | 10 | SLOT 6-15 | 7 | T115 WAVEFORM GENERATOR TRANSITION MODULE | 94028126 |
| | | 10 | 10 | SLOT 6-15 | 6 | V115 WAVEFORM GENERATOR MODULE | 94028108 |
| | | 1 | 1 | SLOT5 | 5 | V114 MADC A/D CONVERTER MODULE | 94028226 |
| | | 1 | 1 | SLOT4 | 4 | V113 MADC CONTROLLER MODULE | 94028140 |
| | | 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 | Q.A. CATEGORY A-3 | DATE | BROOKHAVEN NATIONAL LABORATORY | | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | DRAWN BY | Venegas | 8/10/99 | UPTON, N.Y. 11973 | |
| DECIMAL TOLERANCES .X ±.030 .XX ±.015 .XXX ±.005 ANGULAR TOLERANCE ± .5° | CHECKED BY | | | RHIC CONTROLS | |
| | DESIGN APPROVAL | | | ALCOVE 1007A RACK R07A10 | |
| | ENGINEER APPROVAL | R. MICHNOFF | 10/28/97 | VME CHASSIS CFE-7A-PS2 | |
| | SUPVR. APPROVAL | | | SIZE D | 94028587 REV. A |
| OUTSTANDING ECN | NA FINISH | BREAK SHARP EDGES MAX. XX MIN. XX | NEXT ASSEMBLY | MATERIAL: ——— | SCALE: FULL WEIGHT: – SHEET 1 OF 1 |

*AUTOCAD

| REV. | ZONE | ECN NO. | DATE | BY | CKR | APP. |
|---|---|---|---|---|---|---|

| R07A01<br>MAGNET ELECTRICAL | R07A02<br>MAGNET ELECTRICAL | R07A03<br>MAGNET ELECTRICAL | R07A04<br>MAGNET ELECTRICAL | R07A05<br>MAGNET ELECTRICAL | R07A06<br>MAGNET ELECTRICAL | R07A07<br>MAGNET ELECTRICAL |
|---|---|---|---|---|---|---|
| bo6-th2 | bo6-tv3 | yi6-tv2 | yi6-th3 | bo6-th4 | yi6-yv4 | |
| bo6-oct2 | bo6-sx3 | yi6-oct2 | yi6-sx3 | bo6-tv5 | yi6-th5 | |
| bo6-dec2 | bo6-oct3 | yi6-dec2 | yi6-oct3 | bo6-th6 | yi6-tv6 | |
| bo6-dod2 | bo6-dod3 | yi6-dod2 | yi6-dod3 | bo6-tv7 | yi6-th7 | |
| bo6-qs3 | bo6-qs-ps | yi6-qs3 | yi6-qs-ps | bo6-th8 | yi6-tv8 | |
| bo6-sxs3 | bo6-octf-ps | yi6-sxs3 | yi6-octf-ps | bo6-tv9 | yi6-th9 | |
| bo6-octs3<br>(FUTURE) | bo6-octd-ps | yi6-octs3<br>(FUTURE) | yi6-octd-ps | bo6-th10 | yi6-tv10 | |
| bo6-dods3<br>(FUTURE) | bo6-qqt-ps | yi6-dods3<br>(FUTURE) | yi6-qqt-ps | bo6-tv11 | yi6-th11 | |
| bo6 focussing decapoles<br>(FUTURE) | | yi6 focussing decapoles<br>(FUTURE) | | bo6-th12 | yi6-tv12 | |
| bo6 defocussing decapoles<br>(FUTURE) | | yi6 defocussing decapoles<br>(FUTURE) | | bo6-tv13 | yi6-th13 | |
| SPARE | | SPARE | | bo6-th14 | yi6-tv14 | |
| PSIF-7A-01 | PSIF-7A-02 | PSIF-7A-03 | PSIF-7A-04 | PSIF-7A-05 | PSIF-7A-06 | |
| BLOWER | BLOWER | BLOWER | BLOWER | BLOWER | BLOWER | BLOWER |

FRONT VIEW

| QTY | REF DESIG | ITEM | DESCRIPTION | DWG NO.,BNL NO. |
|---|---|---|---|---|
| 7 | | 10 | BLOWER (PREMIER METAL PMB-8-525) | |
| 1 | | 9 | RACK R07A01 - R07A07 WIRING DIAGRAM | xxxx |
| 48 | | 8 | 50 AMP CORRECTOR POWER SUPPLIES | xxxx |
| 2 | | 7 | GAMMA-T CORRECTOR POWER SUPPLIES | xxxx |
| 1 | | 6 | LOW RESOLUTION POWER SUPPLY INTERFACE CHASSIS PSIF-7A-06 ASSY. | 94028594 |
| 1 | | 5 | LOW RESOLUTION POWER SUPPLY INTERFACE CHASSIS PSIF-7A-05 ASSY. | 94028593 |
| 1 | | 4 | LOW RESOLUTION POWER SUPPLY INTERFACE CHASSIS PSIF-7A-04 ASSY. | 94028592 |
| 1 | | 3 | LOW RESOLUTION POWER SUPPLY INTERFACE CHASSIS PSIF-7A-03 ASSY. | 94028591 |
| 1 | | 2 | LOW RESOLUTION POWER SUPPLY INTERFACE CHASSIS PSIF-7A-02 ASSY. | 94028590 |
| 1 | | 1 | LOW RESOLUTION POWER SUPPLY INTERFACE CHASSIS PSIF-7A-01 ASSY. | 94028589 |

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

| | | |
|---|---|---|
| DRAWN BY | Ed Koropsak | 3/3/98 |
| CHECKED BY | | |
| DESIGN APPROVAL | | |
| ENGINEER APPROVAL | R. MICHNOFF | 3/3/98 |
| SUPVR. APPROVAL | | |

NEXT ASSEMBLY

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

RHIC CONTROLS

ALCOVE 1007A

# RACKS R07A01-R07A07 ASSEMBLY

SIZE D | 94028588 | REV. A

DRAWING NUMBER

MATERIAL: ——— | SCALE: FULL | WEIGHT: – | SHEET 1 OF 2

*AUTOCAD

| REV. | ZONE | ECN NO. | DATE | BY | CKR | APP. |
|---|---|---|---|---|---|---|

R07A07
MAGNET ELECTRICAL

R07A06
MAGNET ELECTRICAL

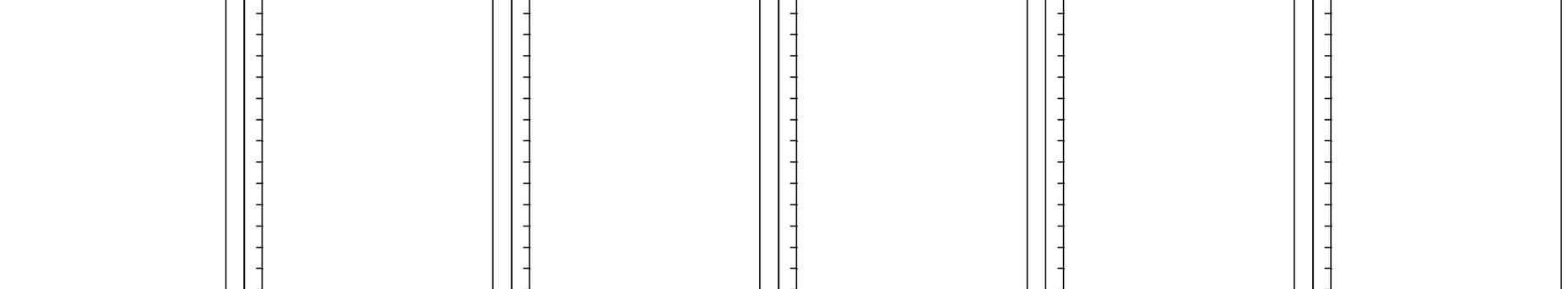
R07A05
MAGNET ELECTRICAL

R07A04
MAGNET ELECTRICAL

R07A03
MAGNET ELECTRICAL

R07A02
MAGNET ELECTRICAL

R07A01
MAGNET ELECTRICAL




REAR VIEW

| -3 | -2 | -1 | REF DESIGNATOR | ITEM NO. | DESCRIPTION | MAT'L DWG NO./PNL NO. |
|---|---|---|---|---|---|---|
| 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 | 3/3/98 |
| CHECKED BY | | |
| DESIGN APPROVAL | | |
| ENGINEER APPROVAL | R. MICHNOFF | 3/3/98 |
| SUPVR. APPROVAL | | |

NEXT ASSEMBLY

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

RHIC CONTROLS

ALCOVE 1007A

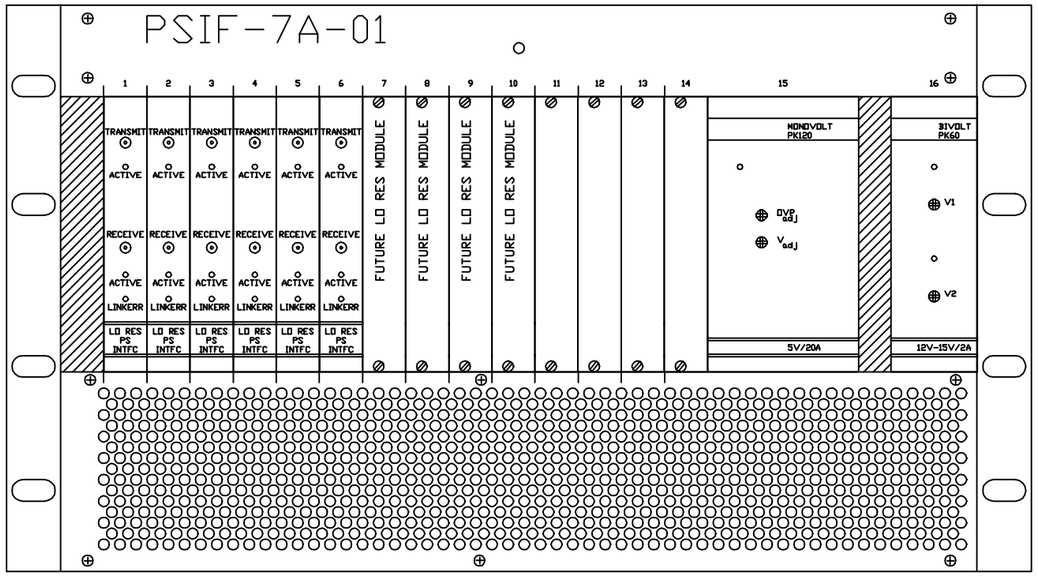
RACKS R07A01–R07A07 ASSEMBLY

SIZE D | DRAWING NUMBER 94028588 | REV. A

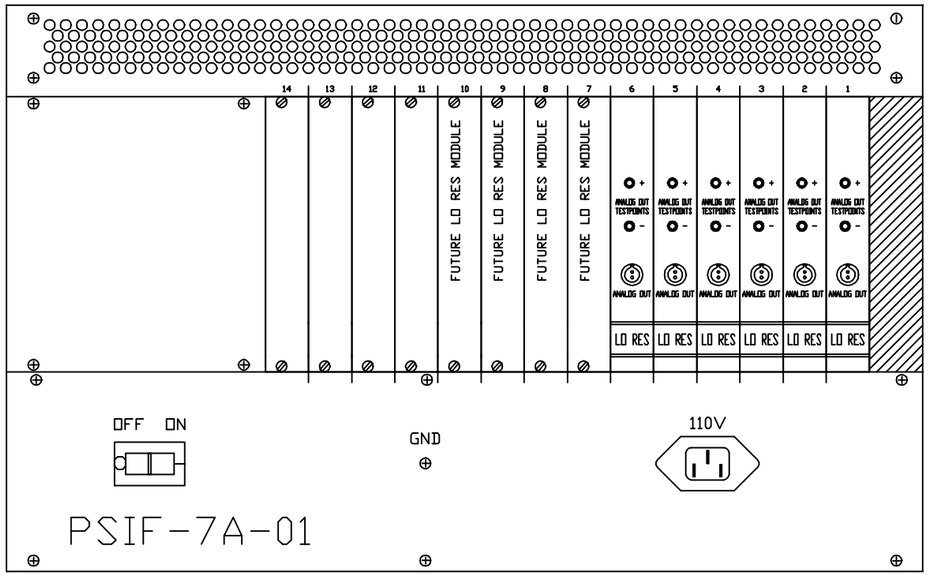
MATERIAL: ——— | SCALE: FULL | WEIGHT: – | SHEET 2 OF 2

*AUTOCAD

| REV. | ZONE | ECN NO. | DATE | BY | CKR | APP. |
|---|---|---|---|---|---|---|




FRONT VIEW




REAR VIEW

NOTES:
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. |
|---|---|---|---|---|---|---|
| | | 16 | SEE NOTE 1 | 4 | 3U x 4HP BLANK PANEL (ELECTRO-SPACE ESFE-3549) | |
| | | 6 | SLOT 1-6 | 3 | LD RES PS INTERFACE TRANSITION MODULE | 94028198 |
| | | 6 | SLOT 1-6 | 2 | LD RES PS INTERFACE MODULE | 94028191 |
| | | 1 | N/A | 1 | 3U LD RES POWER SUPPLY INTERFACE CHASSIS | 94028262 |

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 | 3/3/98 |
| CHECKED BY | | |
| DESIGN APPROVAL | | |
| ENGINEER APPROVAL | R. MICHNOFF | 3/3/98 |
| SUPVR. APPROVAL | | |

NEXT ASSEMBLY

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

RHIC CONTROLS, ALCOVE 1007A

RACK R07A01, LOW RES PWR SPLY INTERFACE

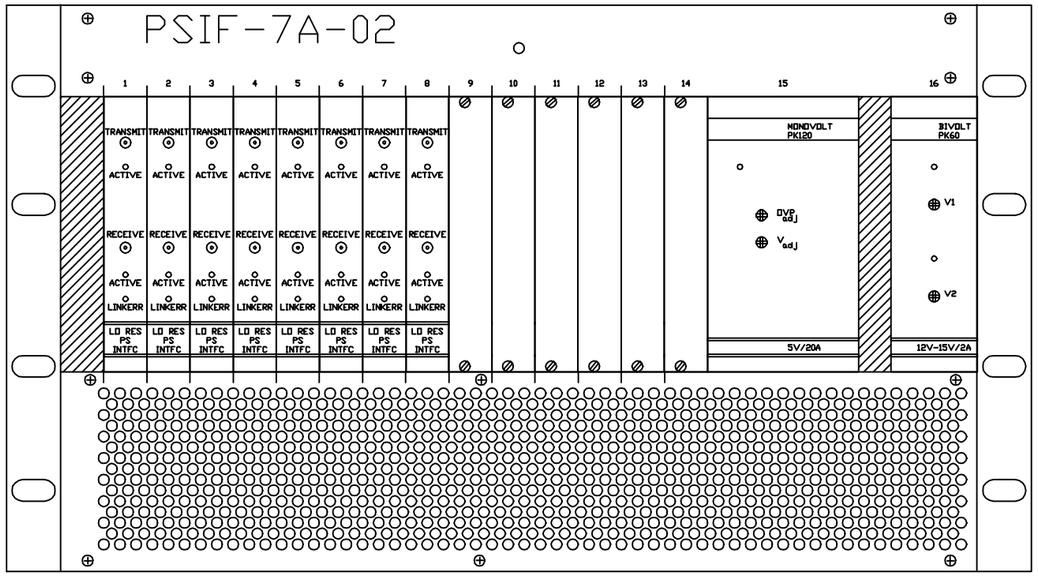
# CHASSIS PSIF-7A-01 ASSY

SIZE D | 94028589 DRAWING NUMBER | REV. A

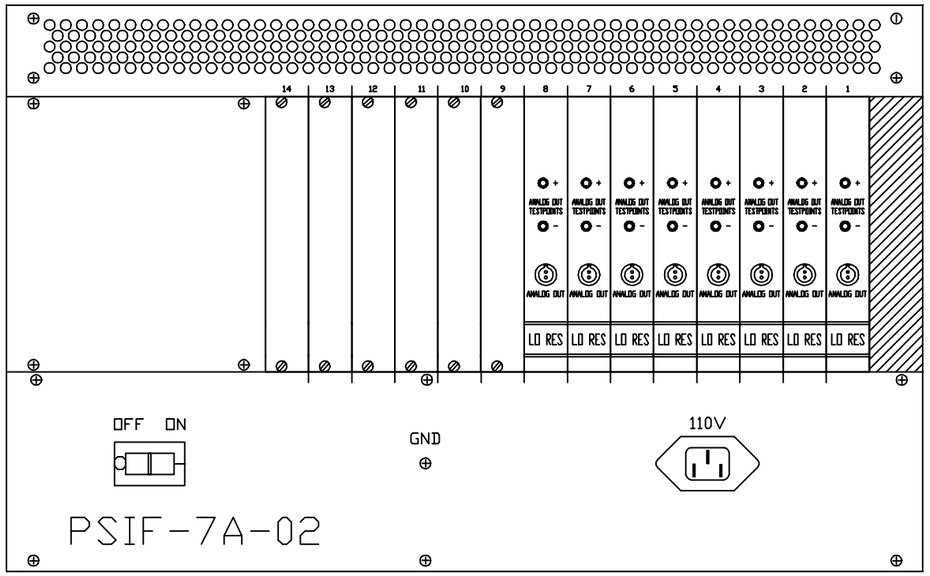
MATERIAL: ——— SCALE: FULL WEIGHT: – SHEET 1 OF 1

*AUTOCAD

| REV. | ZONE | ECN NO. | DATE | BY | CKR | APP. |
|---|---|---|---|---|---|---|




FRONT VIEW




REAR VIEW

NOTES:
1. ALL UNUSED SLOTS FRONT AND REAR

| -3 | -2 | -1 | QTY REQD | REF DESIGNATOR | ITEM NO. | DESCRIPTION | MAT'L DWG NO./BNL NO. |
|---|---|---|---|---|---|---|---|
| | | 12 | SEE NOTE 1 | | 4 | 3U x 4HP BLANK PANEL (ELECTRO-SPACE ESFE-3549) | |
| | | 8 | SLOT 1-8 | | 3 | LD RES PS INTERFACE TRANSITION MODULE | 94028198 |
| | | 8 | SLOT 1-8 | | 2 | LD RES PS INTERFACE MODULE | 94028191 |
| | | 1 | N/A | | 1 | 3U LD RES POWER SUPPLY INTERFACE CHASSIS | 94028262 |

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 | 3/3/98 |
| CHECKED BY | | |
| DESIGN APPROVAL | | |
| ENGINEER APPROVAL | R. MICHNOFF | 3/3/98 |
| SUPVR. APPROVAL | | |

NEXT ASSEMBLY

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

RHIC CONTROLS, ALCOVE 1007A

RACK R07A02, LOW RES PWR SPLY INTERFACE

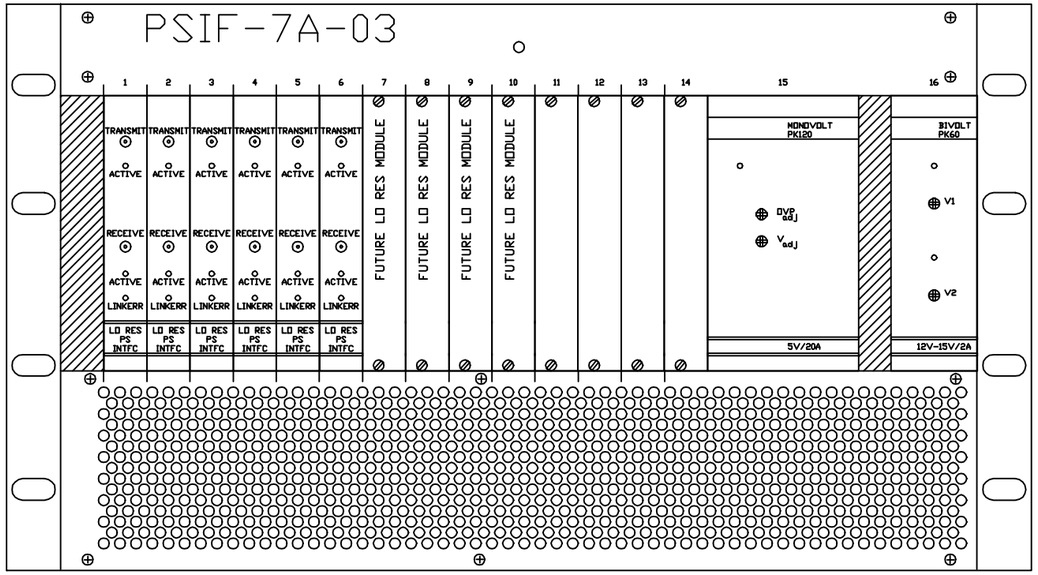
CHASSIS PSIF-7A-02 ASSY

SIZE D | 94028590 DRAWING NUMBER | REV. A

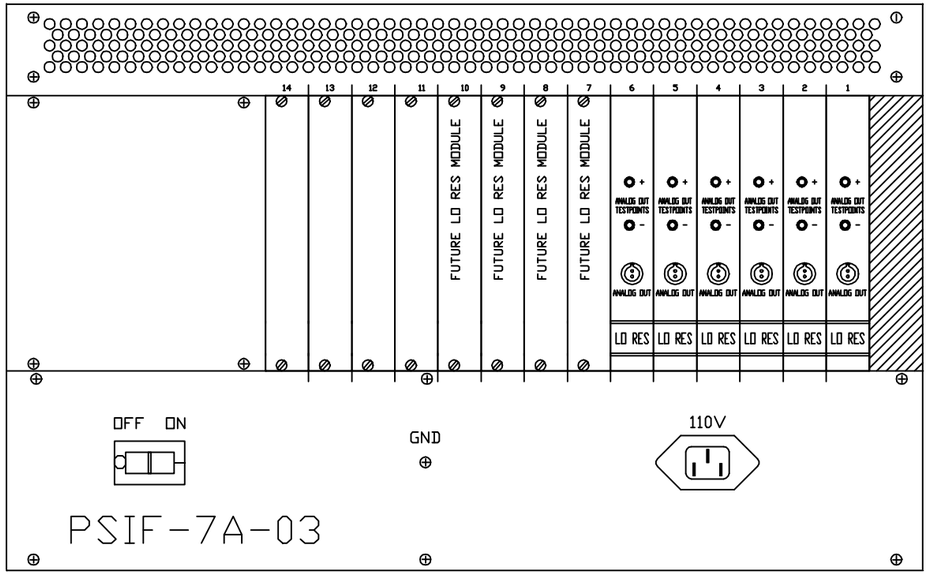
MATERIAL: ——— SCALE: FULL WEIGHT: – SHEET 1 OF 1

*AUTOCAD

| REV. | ZONE | ECN NO. | DATE | BY | CKR | APP. |
|---|---|---|---|---|---|---|




FRONT VIEW




REAR VIEW

NOTES:
1. ALL UNUSED SLOTS FRONT AND REAR

| -3 | -2 | -1 | REF DESIGNATOR | ITEM NO. | DESCRIPTION | MAT'L DWG NO./BNL NO. |
|---|---|---|---|---|---|---|
| | | 16 | SEE NOTE 1 | 4 | 3U x 4HP BLANK PANEL (ELECTRO-SPACE ESFE-3549) | |
| | | 6 | SLOT 1-6 | 3 | LD RES PS INTERFACE TRANSITION MODULE | 94028198 |
| | | 6 | SLOT 1-6 | 2 | LD RES PS INTERFACE MODULE | 94028191 |
| | | 1 | N/A | 1 | 3U LD 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°

OUTSTANDING ECN

NA
FINISH

BREAK SHARP EDGES
MAX. XX MIN. XX

| | | |
|---|---|---|
| Q.A. CATEGORY | A-3 | DATE |
| DRAWN BY | Ed Koropsak | 3/3/98 |
| CHECKED BY | | |
| DESIGN APPROVAL | | |
| ENGINEER APPROVAL | R. MICHNOFF | 3/3/98 |
| SUPVR. APPROVAL | | |
| NEXT ASSEMBLY | | |


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


RHIC CONTROLS, ALCOVE 1007A

RACK R07A03, LOW RES PWR SPLY INTERFACE

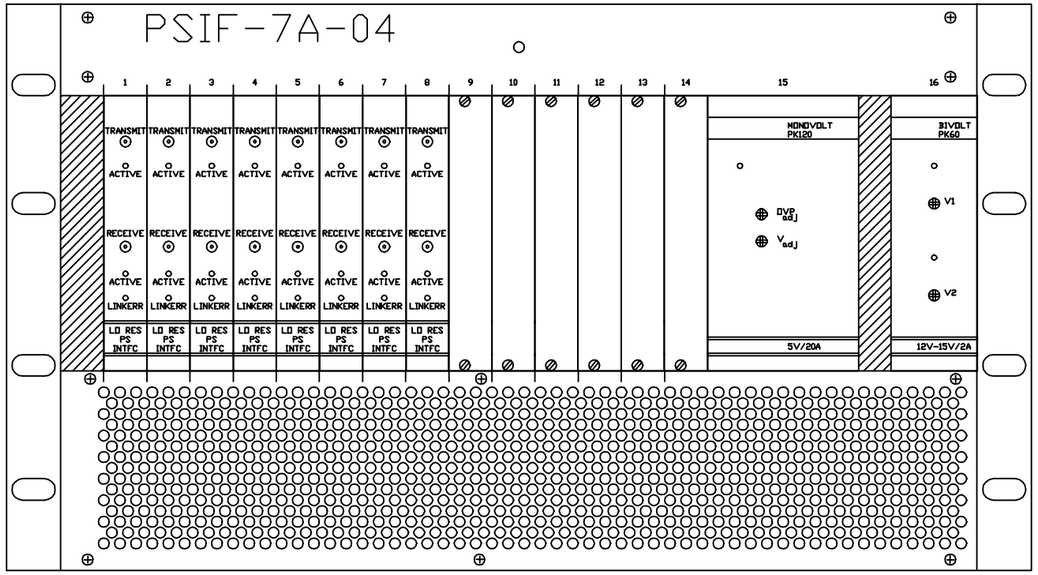
# CHASSIS PSIF-7A-03 ASSY

SIZE D — DRAWING NUMBER 94028591 — REV. A

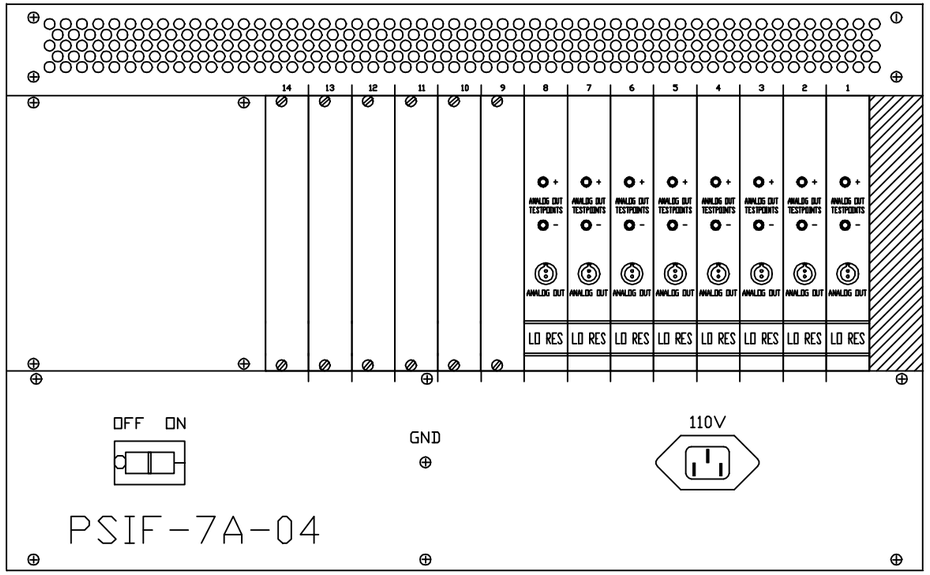
MATERIAL: ——— SCALE: FULL WEIGHT: – SHEET 1 OF 1

*AUTOCAD

| REV. | ZONE | ECN NO. | DATE | BY | CKR | APP. |
|---|---|---|---|---|---|---|




FRONT VIEW




REAR VIEW

NOTES:
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. |
|---|---|---|---|---|---|---|
| | | 12 | SEE NOTE 1 | 4 | 3U x 4HP BLANK PANEL (ELECTRO-SPACE ESFE-3549) | |
| | | 8 | SLOT 1-8 | 3 | LD RES PS INTERFACE TRANSITION MODULE | 94028198 |
| | | 8 | SLOT 1-8 | 2 | LD RES PS INTERFACE MODULE | 94028191 |
| | | 1 | N/A | 1 | 3U LD RES POWER SUPPLY INTERFACE CHASSIS | 94028262 |

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 | 3/3/98 |
| CHECKED BY | | |
| DESIGN APPROVAL | | |
| ENGINEER APPROVAL | R. MICHNOFF | 3/3/98 |
| SUPVR. APPROVAL | | |

NEXT ASSEMBLY

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

RHIC CONTROLS, ALCOVE 1007A

RACK R07A04, LOW RES PWR SPLY INTERFACE

# CHASSIS PSIF-7A-04 ASSY

SIZE D | 94028592 DRAWING NUMBER | REV. A

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

*AUTOCAD

| REV. | ZONE | ECN NO. | DATE | BY | CKR | APP. |
|---|---|---|---|---|---|---|

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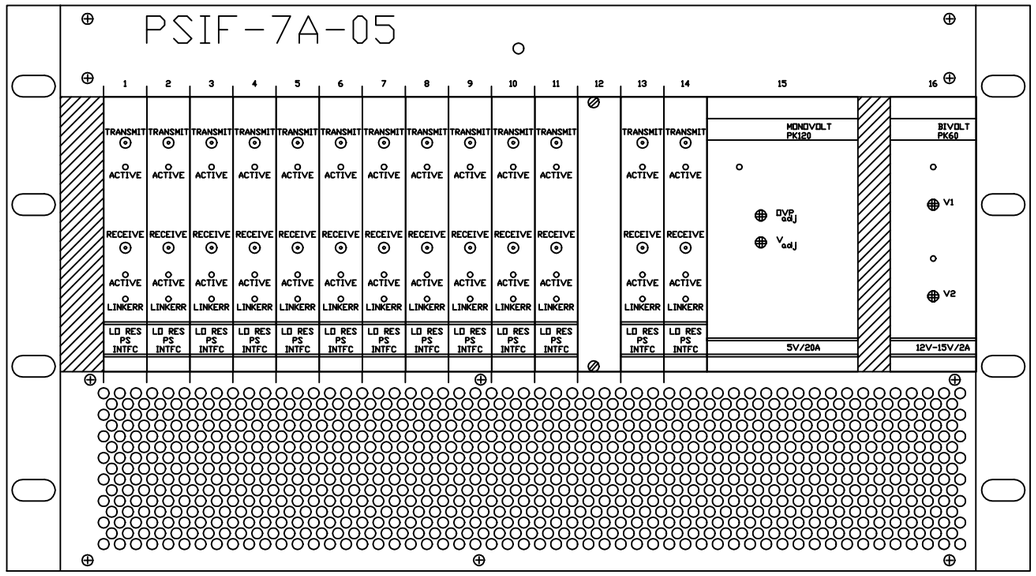
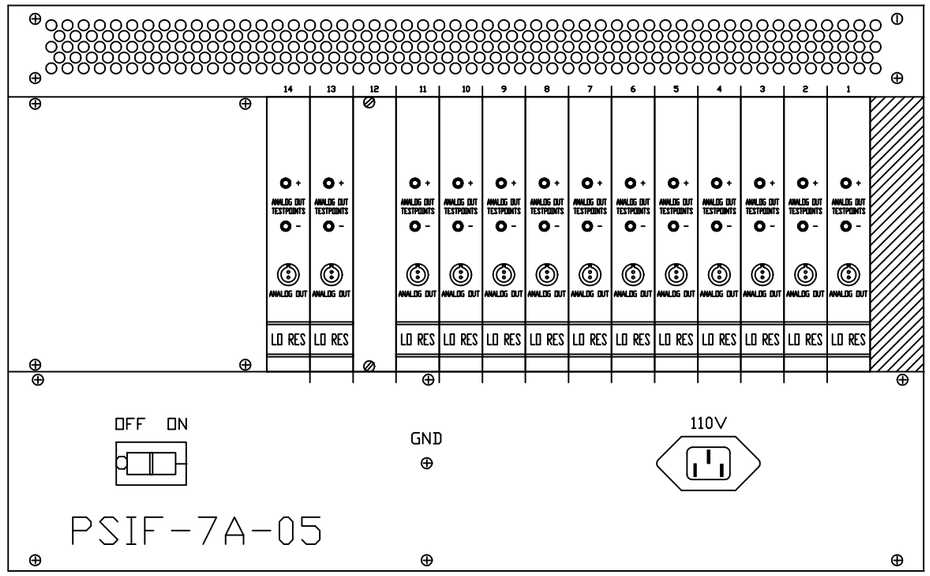



FRONT VIEW




REAR VIEW

NOTES:
1. ALL UNUSED SLOTS FRONT AND REAR

| -3 | -2 | -1 | QTY REQD | REF DESIGNATOR | ITEM NO. | DESCRIPTION | MAT'L DWG NO./BNL NO. |
|---|---|---|---|---|---|---|---|
| | | 2 | | SEE NOTE 1 | 4 | 3U x 4HP BLANK PANEL (ELECTRO-SPACE ESFE-3549) | |
| | | 13 | | SL1-11,13,14 | 3 | LO RES PS INTERFACE TRANSITION MODULE | 94028198 |
| | | 13 | | SL1-11,13,14 | 2 | LO RES PS INTERFACE MODULE | 94028191 |
| | | 1 | | N/A | 1 | 3U LO RES POWER SUPPLY INTERFACE CHASSIS | 94028262 |

| | | | | |
|---|---|---|---|---|
| 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 | Ed Koropsak | 3/3/98 | UPTON, N.Y. 11973 |
| DECIMAL TOLERANCES X ±.030 .XX ±.015 .XXX ±.005 | CHECKED BY | | | RHIC CONTROLS, ALCOVE 1007A |
| ANGULAR TOLERANCE ± .5° | DESIGN APPROVAL | | | RACK R07A05, LOW RES PWR SPLY INTERFACE |
| | ENGINEER APPROVAL | R. MICHNOFF | 3/3/98 | CHASSIS PSIF-7A-05 ASSY |
| | SUPVR. APPROVAL | | | SIZE D — 94028593 — REV. A |
| NA FINISH — BREAK SHARP EDGES MAX. XX MIN. XX | NEXT ASSEMBLY | | | DRAWING NUMBER |
| OUTSTANDING ECN | MATERIAL: ——— | SCALE: FULL | WEIGHT: — | SHEET 1 OF 1 |

*AUTOCAD

| REV. | ZONE | ECN NO. | DATE | BY | CKR | APP. |
|---|---|---|---|---|---|---|

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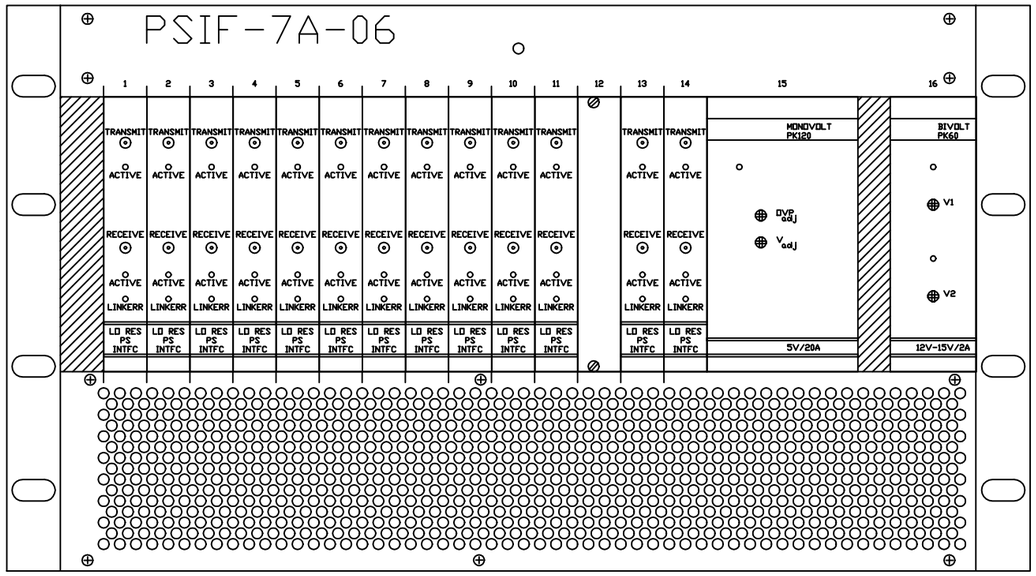
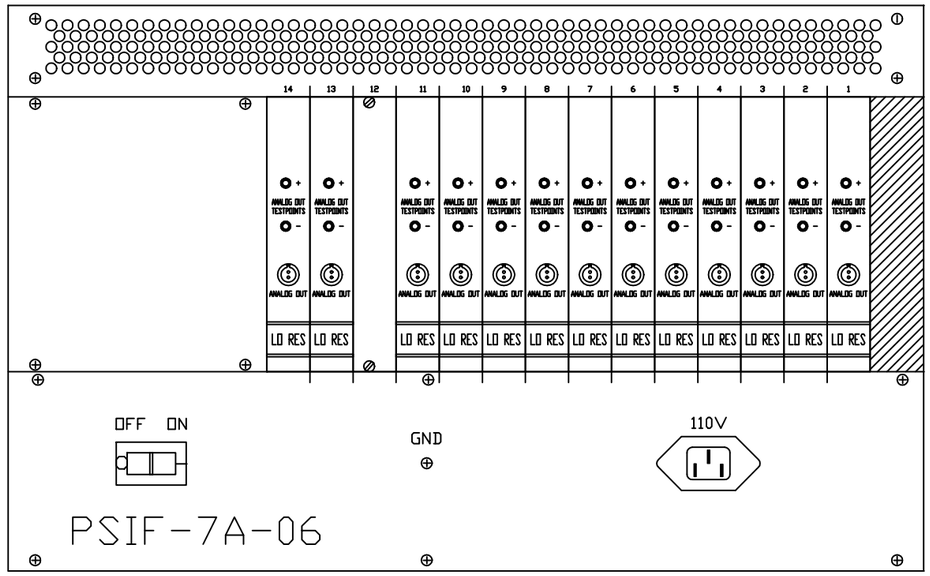



FRONT VIEW




REAR VIEW

NOTES:
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. |
|---|---|---|---|---|---|---|
| | | 2 | SEE NOTE 1 | 4 | 3U x 4HP BLANK PANEL (ELECTRO-SPACE ESFE-3549) | |
| | | 13 | SL1-11,13,14 | 3 | LD RES PS INTERFACE TRANSITION MODULE | 94028198 |
| | | 13 | SL1-11,13,14 | 2 | LD RES PS INTERFACE MODULE | 94028191 |
| | | 1 | N/A | 1 | 3U LD RES POWER SUPPLY INTERFACE CHASSIS | 94028262 |

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 | 3/3/98 |
| CHECKED BY | | |
| DESIGN APPROVAL | | |
| ENGINEER APPROVAL | R. MICHNOFF | 3/3/98 |
| SUPVR. APPROVAL | | |

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973

RHIC CONTROLS, ALCOVE 1007A

RACK R07A06, LOW RES PWR SPLY INTERFACE

# CHASSIS PSIF-7A-06 ASSY

SIZE D — DRAWING NUMBER 94028594 — REV. A

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

*AUTOCAD