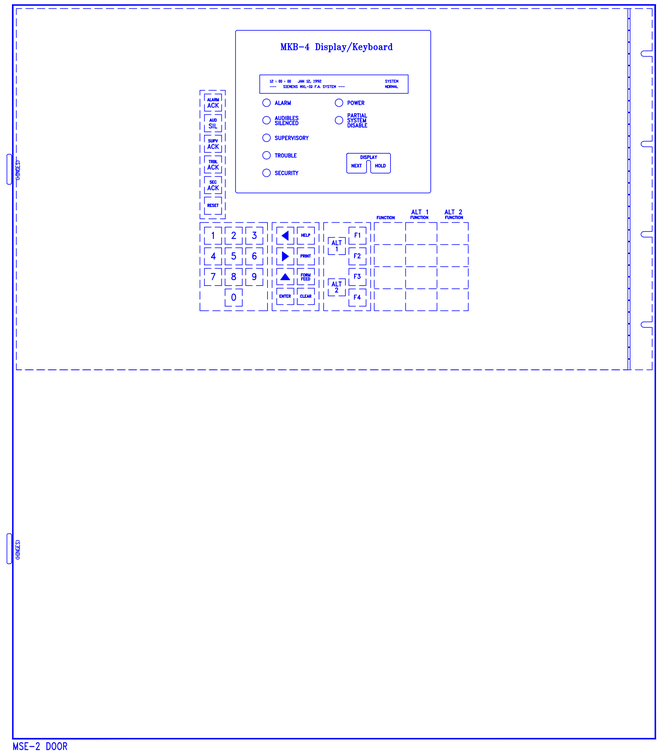
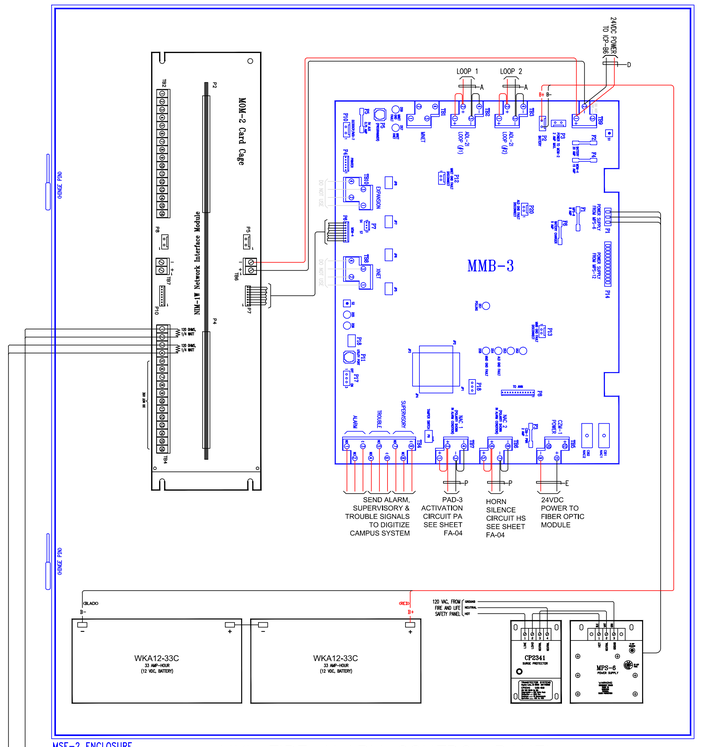


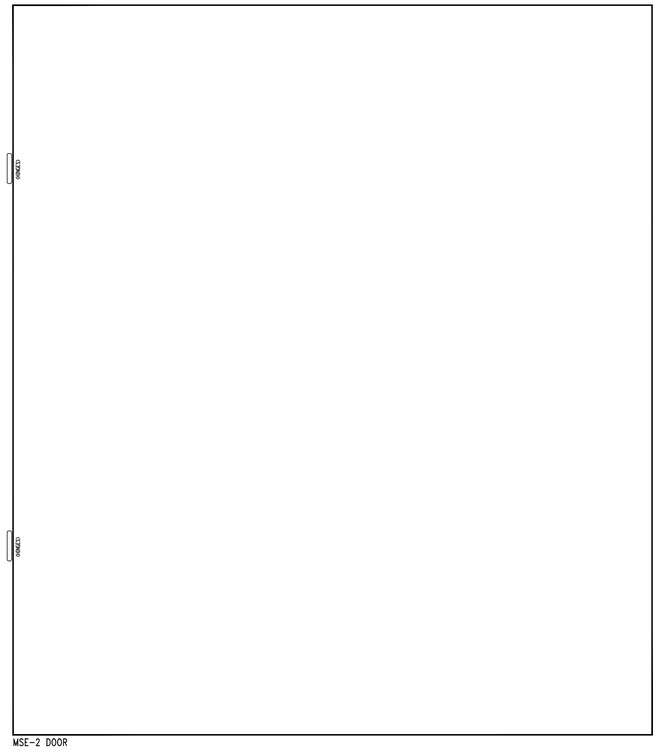

MSE-2 DOOR



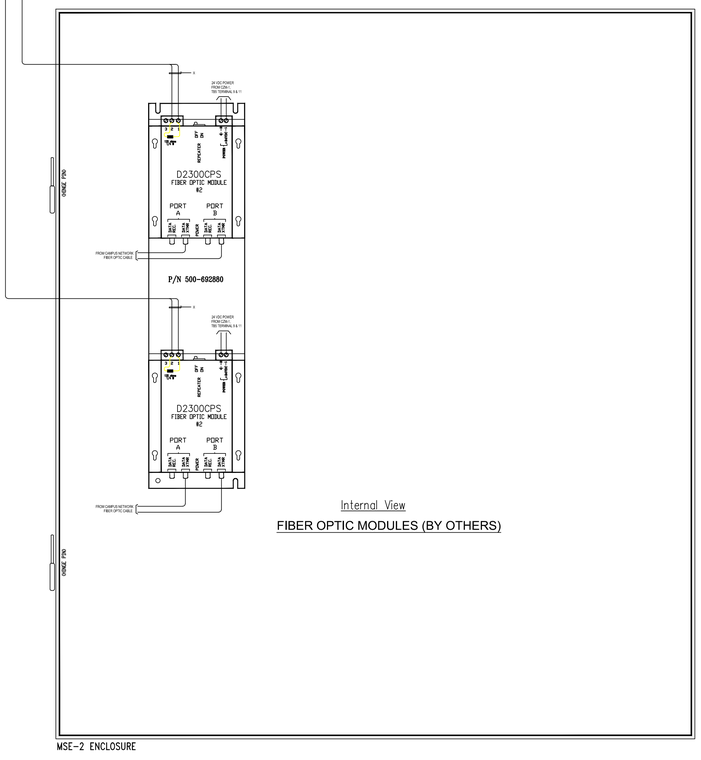

MSE-2 ENCLOSURE

## MXL FIRE ALARM CONTROL PANEL

LOCATED AT LEVEL ONE RECEPTION 102




MSE-2 DOOR




MSE-2 ENCLOSURE

## MSE-2 ENCLOSURE

LOCATED AT LEVEL ONE RECEPTION 102
MOUNTED BELOW MXL

### MXL PANEL BATTERY CALCULATION

SUPERVISORY CURRENT

| DESCRIPTION | QTY | MODULE CURRENT | EOL CURRENT | DEVICE CURRENT | TOTAL ROW CURRENT |
|---|---|---|---|---|---|
| **MMB-3** MAIN CONTROL BOARD | 1 | 0.280 | | | 0.280 |
| 1.1mA per device - Analog Loop | 2 | | | 0.066 | 0.132 |
| 12mA per NAC circuit | 2 | | 0.012 | | 0.024 |
| **MKB-4** ANNUNCIATOR/KEYBOARD | 1 | 0.005 | | | 0.005 |
| **NIM-1W** NETWORK INTERFACE MODULE | 1 | 0.150 | | | 0.15 |
| **D2300CPS** FIBER OPTIC MODULE | 2 | 0.057 | | | 0.114 |
| | | | | | |
| | | | | | |
| | | | | TOTAL SUPERVISORY CURRENT (AMPS) | 0.705 |

| NOTIFICATION CIRCUITS | TOTAL CKT CURRENT LOAD |
|---|---|
| CIRCUIT PA | 0.015 |
| CIRCUIT HS | 0.015 |
| CIRCUIT ICP | 0.108 |
| TOTAL ALARM CURRENT (AMPS) | 0.138 |

SUMMARY

A = TOTAL SUPERVISORY CURRENT x SUPERVISORY TIME REQUIRED
0.705 AMPS x 24 HR
= 16.92 (AMP-HOUR)

B = TOTAL ALARM CURRENT x ALARM TIME REQUIRED
0.138 AMPS x .083 HR
= 0.011 (AMP-HOUR)

C = A + B
= 16.931 (AMP-HOUR)

SUPERVISORY TIME REQUIRED———24 HR
ALARM TIME REQUIRED——5 MINS. or .083 HR

BATTERY PROVIDED.... WKA12-33C (2)
BATTERY SIZE..... 33 (AMP-HR)

TOTAL SYSTEM REQUIRED
= 16.931 AMP-HOUR
BATTERY RESERVE AFTER 24 HOURS SUPERVISORY & 5 MINUTES ALARM (AMP-HOUR)
= 56.069 AMP/HOUR

### MXL LOOP SCHEDULE

| CIRCUIT NO: | PANEL NO: | DEVICE TYPE | LOCATION |
|---|---|---|---|
| LOOP 1 | MXL FACP | ANALOG DEVICES | LEVEL ONE, & LEVEL TWO |
| LOOP 2 | MXL FACP | ANALOG DEVICES | LEVEL TWO & LEVEL THREE |
| | | | |
| | | | |
| | | | |

### MXL NAC SCHEDULE

| CIRCUIT NO: | PANEL NO: | DEVICE TYPE | LOCATION |
|---|---|---|---|
| NAC#1–PA | MXL FACP | PAD ACTIVATION | LEVEL ONE |
| NAC#2–HS | MXL FACP | HORN SILENCE | LEVEL ONE |
| | | | |
| | | | |
| | | | |

SHEET NOTE:

1. REFER TO SHEET FA-02 FOR MOUNTING DETAILS.

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REVISIONS

| No. | Revision | By | Date | Appr. |
|---|---|---|---|---|
| 1 | REVISED PER FIRE MARSHAL'S COMMENTS DATED 02/12/09 | JPM | 2/27/09 | KW |
| | AS–BUILT | JPM | 8/10/09 | KW |

AS BUILT

C–10 APPROVAL STAMP:

REGISTERED C-10 LICENSED CONTRACTOR
LIC. NO. 758796
STATE OF CALIFORNIA

ENGINEERING CONSULTANTS:

CUSTOMER'S NAME & ADDRESS

PRODUCT MANUFACTURER:

Siemens Building Technologies, Inc.
Fire Safety Division
25821 Industrial Boulevard, Suite 300
Hayward, California 94545-2991
Tel (510) 783-6000 Fax (510) 293-2100
California State C10 License No. 758796
U.L. Certificate ID No. 324787-001

JOB NAME & LOCATION (STREET ADDRESS)

LAWRENCE BERKELEY NATIONAL LABORATORY

BERKELEY LAB GUEST HOUSE

Berkeley, California

SHEET CONTENTS:

MXL FIRE ALARM CONTROL PANEL

INSTALLATION TYPE

- [x] NEW INSTALLATION
- [ ] DESIGN/BUILD
- [x] PER CONTRACT DOCUMENT
- [ ] EXISTING BASE JOB # N/A
- [ ] OTHERS

| | |
|---|---|
| SYSTEM SALES REP.: | Kevin Waxman |
| PROJECT MANAGER: | Mark Millard |
| DRAWN BY: | John Paul Minas |
| CAD FILENAME: | FA-03 |
| SCALE: | Not Applicable |
| DATE DRAWN: | February 12, 2009 |
| PLOT DATE: | November 04, 2013 |

| DRAWING NO. | SHEET | JOB NUMBER |
|---|---|---|
| 6B23E005 | FA-03 | 44OP-048653 |

IF DRAWING IS SMALLER THAN 30" X 42" IT IS A REDUCED COPY