



SYSTEM
WIRING

CUSTOM WIRING DIAGRAMS



OUR SERVICE

System Wiring is a custom wiring diagram service company. We specialize in elevation and point-to-point solutions for your new or existing commercial projects. Our team has over thirty years of combined experience and each package submittal is drawn and checked by our in-house electrical engineers. We know how to ensure that your site installation is completed ahead of schedule and passes inspection the first time. We take pride in exceeding our competitors in accuracy, lead time, comprehensiveness, and overall price.

Please review the following pages to get an overview of our service and learn why System Wiring is the best company to provide your custom access control wiring diagrams.

Sincerely,

System Wiring Team

OUR SERVICE

| | SYSTEM WIRING | COMPETITORS |
|-------------------------------|---------------|-------------|
| 24 hour quoting | ✓ | |
| 5 day average lead time | ✓ | |
| Engineer approved | ✓ | |
| Not brand specific | ✓ | |
| Discount for similar openings | ✓ | |
| Phone support | ✓ | ✓ |
| Full submittals | ✓ | ✓ |

BENEFITS OF A CUSTOM WIRING DIAGRAM

- Reduces installation time
- Verifies accuracy of hardware schedule
- Simplifies future upgrades
- Facilitates troubleshooting should an access control issue arise
- Eases integration with other building systems

WIRING DIAGRAM PACKAGES

| | ELEVATION | POINT-TO-POINT | FULL SUBMITTAL | EASY INSTALL |
|---------------------------|-----------|----------------|----------------|--------------|
| COVER SHEET | ✓ | ✓ | ✓ | ✓ |
| ELEVATION | ✓ | | ✓ | ✓ |
| POINT-TO-POINT | | ✓ | ✓ | ✓ |
| INSTALLATION INSTRUCTIONS | | | ✓ | ✓ |
| BRAND CONTACTS | | | | ✓ |
| WIRE GUIDE | | | | ✓ |
| TROUBLE-SHOOTING SUPPORT | | | | ✓ |

PRICING

| ELEVATION | POINT-TO-POINT | FULL SUBMITTAL | EAST INSTALL | CUSTOM |
|-----------|----------------|----------------|--------------|-------------------|
| \$100 | \$400 | \$600 | \$800 | contact for quote |

Prices listed above indicate typical cost per opening for each package. Each order is carefully reviewed and priced according to complexity

SAMPLE WIRING PACKAGE

(for reference only)

SYSTEM WIRING

OPERATIONAL DESCRIPTION:

A551 is interlocked with door A552. Door shall be normally closed and unlocked. When door A551 is in the closed position, turning lever of passage set on Door A552 will be able to open door A552. Door contact, built into mag lock will monitor if any door is in the open position. When door A551 is open, the magnetic lock on door A552 will energize and prevent door A552 from opening. When door A552 is open, the magnetic lock on door B101-01 will energize and prevent door A551 from opening. In the event any of the emergency push button releases are depressed at doors A552 or A551 or the fire alarm being tripped or a power failure, magnetic locks on both doors will be unlocked. When both doors are closed, both magnetic locks will be unlocked. Push button releases need to be held depressed while lever is tuned for door to be opened.

HARDWARE LIST:

| MODEL # | MANUFACTURER | QUANTITY | DESCRIPTION |
|----------|--------------|----------|------------------|
| M62BD | Securitron | 1 | Mag Lock |
| CM-35 | Camden | 2 | Push Button |
| 1006-630 | HES | 1 | Electric Strike |
| QC4 | McKinney | 1 | Electric Hinge |
| 2416ULX3 | Altronix | 1 | Power Supply |
| RB-4 | Securitron | 1 | Relay Board |
| CM-2520 | Camden | 1 | Keyswitch |
| 245BT | Ai Group | 1 | Fire Alarm Panel |
| SP-6820 | AWID | 1 | Wall Reader |

PROJECT NAME: St. Mary's Hospital
CUSTOMER: ACME Locksmith
PACKAGE TYPE: Easy Install
ORDER #: 4952
PO DATE: 9/15/2016
POINT OF CONTACT: George Thomas
DELIVERY DATE: 9/20/2016

Email: systemwiring@gmail.com | Phone: 801-923-8052 | www.systemwiring.com

St. Mary's Hospital

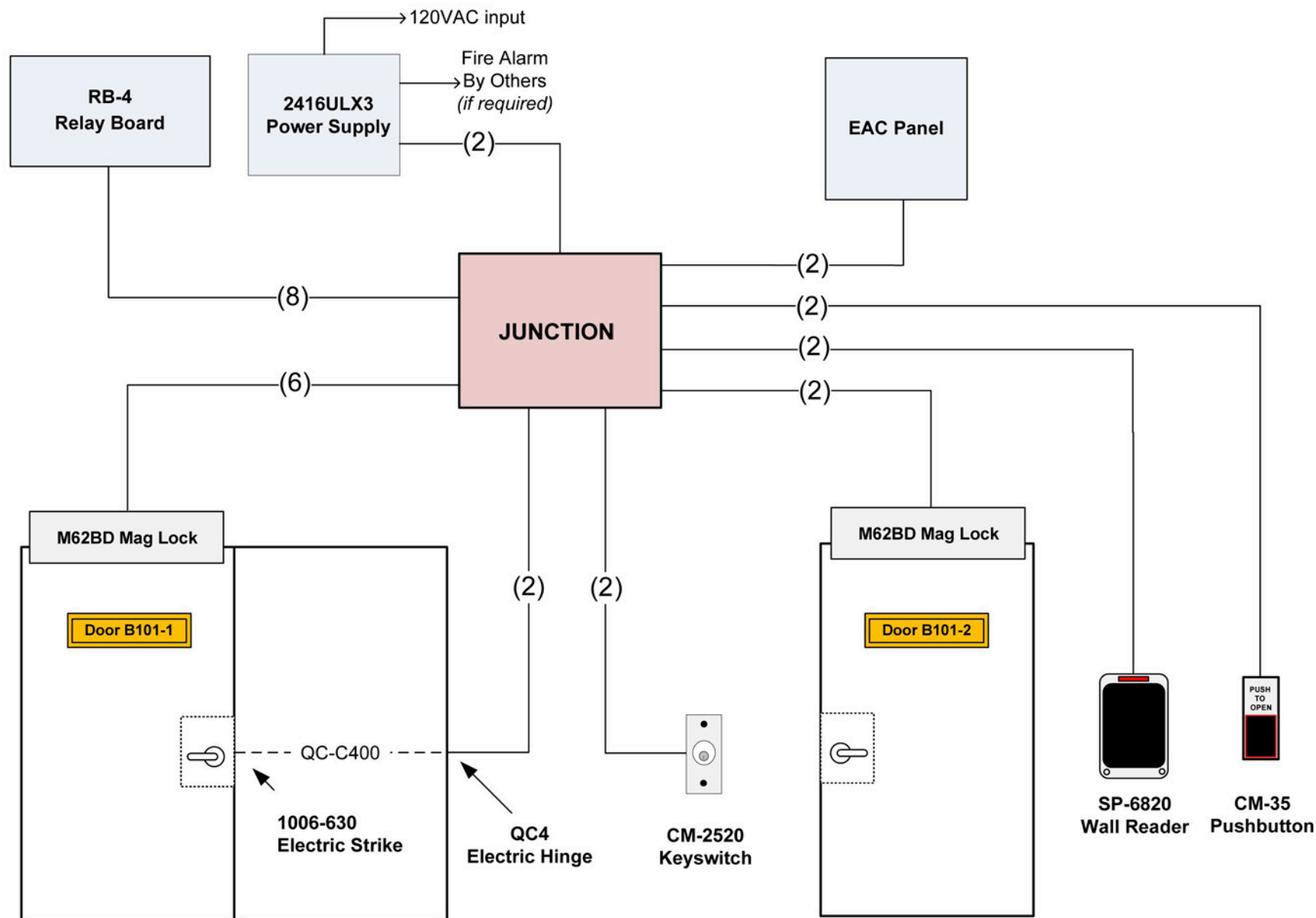
Heading 76F

System Wiring

Date
05/23/17

Drawn By
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Revision
A



TECHNICAL SUPPORT

888.805.9837 – SCHLAGE
Support Hours: M-F 8am-7pm EST

800.624.5625 – SECURITRON
Support Hours: M-F 8am-7pm EST
Email:
support.securitron@assaabloy.com

623.582.4626 – HES
Support Hours: M-F 8am-7pm EST
Email: phx.support@assaabloy.com

800.810.9473 – SARGENT
Support Hours: M-F 8am-7pm EST
Email: support.aehg@assaabloy.com

800.346.7707 – MCKINNEY
Support Hours: M-F 8am-7pm EST
Email: ed.soloski@assaabloy.com

WIRE GAUGE @ 24VDC

| Total Wire Length (ft) | Total Current (amps) | | | | | | | |
|------------------------|----------------------|-----|------|----|------|-----|----|-----|
| | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 | 2 | 2.5 |
| 100 | 24 | 20 | 18 | 18 | 16 | 16 | 14 | 12 |
| 200 | 20 | 18 | 16 | 14 | 14 | 12 | 12 | 10 |
| 300 | 18 | 16 | 14 | 12 | 12 | 12 | 10 | |
| 400 | 18 | 14 | 12 | 12 | 10 | 10 | | |
| 500 | 16 | 14 | 12 | 10 | 10 | | | |
| 800 | 14 | 12 | 10 | 10 | | | | |
| 1000 | 14 | 10 | 10 | | | | | |
| 1500 | 12 | 10 | | | | | | |

WIRE GAUGE @ 12VDC

| Total Wire Length (ft) | Total Current (amps) | | | | | | | |
|------------------------|----------------------|-----|------|----|------|-----|----|-----|
| | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 | 2 | 2.5 |
| 100 | 20 | 18 | 16 | 14 | 14 | 12 | 12 | 10 |
| 200 | 16 | 14 | 12 | 12 | 10 | 10 | | |
| 300 | 16 | 12 | 12 | 10 | 10 | | | |
| 400 | 14 | 12 | 10 | | | | | |
| 500 | 14 | 10 | 10 | | | | | |
| 800 | 12 | 10 | | | | | | |
| 1000 | 10 | | | | | | | |
| 1500 | 10 | | | | | | | |

DISCLAIMER:

Local fire and building codes supersede information found here.



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