



**DANE COUNTY DEPT. OF
PUBLIC WORKS, HIGHWAY &
TRANSPORTATION**

1919 Alliant Energy Center Way
Madison, Wisconsin 53713
Office: 608/266-4018 ♦ Fax: 608/267-1533
Public Works Engineering Division
Public Works Solid Waste Division

ADDENDUM

JULY 3, 2018

ATTENTION ALL REQUEST FOR BID (RFB) HOLDERS

RFB NO. 317039 - ADDENDUM NO. 2

FACILITY CARD ACCESS SYSTEM

BIDS DUE: TUESDAY, JULY 10, 2018, 2:00 PM. DUE DATE AND TIME ARE NOT CHANGED BY THIS ADDENDUM.

This Addendum is issued to modify, explain or clarify the original Request for Bid (RFB) and is hereby made a part of the RFB. Please attach this Addendum to the RFB.

PLEASE MAKE THE FOLLOWING CHANGES:

1. General Info:

This Addendum adds Alternate Bid No. 2 (two additional proximity card readers), tries to better clarify what work is in the Base Bid, Alternate Bid No. 1 & Alternate Bid No. 2. It clarifies that j-hooks are acceptable above ceilings for running control cabling / wiring in many circumstances, indicates acceptable electric door strikes' manufacturer & models & clarifies control cabling / wiring type (gauge).

Since 14 of the original 27 drawings in set have (minor) changes & 1 new drawing is added, for simplicity, we are reissuing the entire drawing set as a whole. The Drawings that change are listed below.

2. Bid Form

Delete current Bid Form; replace with new Bid Form, issued with this Addendum.

3. Section 01 00 00

Page 2 - Item 1.2.A.: Delete the current paragraph & insert the following:

“Project Description: Perform the Work as specified and detailed in Construction Documents package. Contractor to provide new facility card access system. This includes 18 proximity card readers & all associated accessories. Project has two alternate bids to provide up to six (6) additional proximity card readers.”

Page 3 - Item 1.6.D.: Delete the current paragraph & insert the following:

“D. Schedule of Alternate Bids:

1. Additional proximity card readers.
 - a. Add four (4) more card proximity card readers & associated accessories as shown on Drawings (Doors 121B, 228A (two units) & 235B).
2. Additional proximity card readers.
 - a. Add two (2) more card proximity card readers & associated accessories as shown on Drawings (Doors 210B & 224A).”

4. Section 28 15 00

Page 1 - Item 1.1.J.: After this item, insert the following:

“K. Alternate Bid #2 shall consist of an additional two (2) access control readers as shown on DWG PAGE #004 & 005.”

Page 6 - Item 2.6.B.: After this item, insert the following:

“1. All door strikes shall be Hanchett Energy Systems, Inc. (HES) models 5200, 8000, 9400 or 9500 (no substitutes). It is the Division 28 Contractor’s responsibility to:
a. Choose which model is specifically applicable at each door location.
b. Field-verify chosen model will work at each door location.
c. Make necessary alterations to door frame to accommodate installation of each door strike.”

Page 7 - Item 2.10.C.1.:

Change: “ 20AWG stranded ”, to: “ 22AWG stranded ”.

Page 7 - Item 2.10.C.2.:

Change: “ 20AWG stranded ”, to: “ 22AWG stranded ”.

Page 8 - Item 3.1.F.: Delete the last sentence & insert the following:

“Where plenum rated cable wiring is required, it shall be run parallel to or at right angles to the structure, properly supported from the building structure and installed in a neat and workmanlike manner.”

Page 9 - Item 3.2.A.2.:

Change: “Conceal conduit within finished shafts, ceilings and wall as required. ”, to: “Conceal conduit within finished shafts. ”.

Page 9 - Item 3.2.A.5.b.: After this item, insert the following:

“c. Cables may be supported by j-hooks attached to the building structure. ”

5. Drawings 001, 002, 003, 004a, 004b, 100a, 100b, 100f, 200, 200a, 200d, 200e, S01, Owner Work

Delete current Drawings 001, 002, 003, 004a, 004b, 100a, 100b, 100f, 200, 200a, 200d, 200e, S01, Owner Work; replace with new Drawings 001, 002, 003, 004a, 004b, 100a, 100b, 100f, 200, 200a, 200d, 200e, S01, Owner Work, issued with this Addendum.

6. Drawing 200f

Add new Drawing 200f, issued with this Addendum.

If any additional information about this Addendum is needed, please call Scott Carlson at 608/266-4179, carlson.scott@countyofdane.com.

Sincerely,

Scott Carlson

Project Manager

Enclosures:

Bid Form

CBRE | ESI Drawing Set

(Only Drawings 001, 002, 003, 004a, 004b, 100a, 100b, 100f, 200, 200a, 200d, 200e, S01 & Owner Work are changed; 200f is new)

H:\Shared\ENGINEERING DIVISION\Scott Carlson\317039 - FORC Card Access System\03 - Addendum\Addendum 2\317039 - Addendum 2.docx

Name of Bidding Firm: _____

BID FORM

BID NO. 317039

**PROJECT: FACILITY CARD ACCESS SYSTEM
LYMAN F. ANDERSON AGRICULTURE & CONSERVATION CENTER**

**TO: DANE COUNTY DEPARTMENT OF PUBLIC WORKS, HIGHWAY &
TRANSPORTATION PROJECT MANAGER
1919 ALLIANT ENERGY CENTER WAY
MADISON, WISCONSIN 53713**

**NOTE: WISCONSIN STATUTE 77.54 (9M) ALLOWS FOR NO SALES & USE TAX ON
THE PURCHASE OF MATERIALS FOR COUNTY PUBLIC WORKS PROJECTS.**

BASE BID - LUMP SUM:

The work includes installation of a facility card access system to an existing building. This includes 18 proximity card readers & all associated accessories. The undersigned, having examined the site where the Work is to be executed and having become familiar with local conditions affecting the cost of the Work and having carefully examined the Drawings and Specifications, all other Construction Documents and Addenda thereto prepared by Dane County Department of Public Works, Highway & Transportation hereby agrees to provide all labor, materials, equipment and services necessary for the complete and satisfactory execution of the entire Work, as specified in the Construction Documents, for the Base Bid stipulated sum of:

_____ and _____ /100 Dollars
Written Price

\$ _____
Numeric Price

ALTERNATE BID 1 - LUMP SUM:

Add price for providing four (4) additional proximity card readers.

_____ and _____ /100 Dollars
Written Price

\$ _____
Numeric Price (circle: Add or Deduct)

ALTERNATE BID 2 - LUMP SUM:

Add price for providing two (2) additional proximity card readers.

_____ and _____ /100 Dollars
Written Price

\$ _____
Numeric Price (circle: Add or Deduct)

Receipt of the following addenda and inclusion of their provisions in this Bid is hereby acknowledged:

Addendum No(s). _____ through _____

Dated _____

Dane County Land & Water Resources Department must have this project completed by October 5, 2018. Assuming this Work can be started by August 27, 2018, what dates can you commence and complete this job?

Commencement Date: _____ Completion Date: _____
(final, not substantial)

I hereby certify that all statements herein are made on behalf of:

(Name of Corporation, Partnership or Person submitting Bid)

Select one of the following:

- 1. A corporation organized and existing under the laws of the State of _____, or
- 2. A partnership consisting of _____, or
- 3. A person conducting business as _____;

Of the City, Village, or Town of _____ of the State of _____.

I have examined and carefully prepared this Bid from the associated Construction Documents and have checked the same in detail before submitting this Bid; that I have full authority to make such statements and submit this Bid in (its) (their) (my) behalf; and that the said statements are true and correct. In signing this Bid, we also certify that we have not, either directly or indirectly, entered into any agreement or participated in any collusion or otherwise taken any action in restraint of free competition; that no attempt has been made to induce any other person or firm to submit or not to submit a Bid; that this Bid has been independently arrived at without collusion with any other bidder, competitor, or potential competitor; that this Bid has not been knowingly disclosed prior to the Bids Due Date to another bidder or competitor; that the above statement is accurate under penalty of perjury.

The undersigned further agrees to honor the Base Bid and the Alternate Bid(s) for sixty (60) calendar days from date of Award of Contract.

SIGNATURE: _____
(Bid is invalid without signature)

Print Name: _____ Date: _____

Title: _____

Address: _____

Telephone No.: _____ Fax No.: _____

Email Address: _____

Contact Person: _____

THIS PAGE IS FOR BIDDERS' REFERENCE AND NEED NOT BE SUBMITTED WITH BID FORM.

BID CHECK LIST:

These items **must** be included with Bid:

Bid Form

Bid Bond

Fair Labor Practices Certification

BIDDERS SHOULD BE AWARE OF THE FOLLOWING:

DANE COUNTY VENDOR REGISTRATION PROGRAM

All bidders are strongly encouraged to be a registered vendor with Dane County. Registering allows vendors an opportunity to receive notifications for RFBs & RFPs issued by the County and provides the County with up-to-date company contact information. Complete a new form or renewal online at:

danepurchasing.com/Account/Login?

DANE COUNTY BEST VALUE CONTRACTING PRE-QUALIFICATION

Contractors must be pre-qualified as a Best Value Contractor with the Dane County Public Works Engineering Division before the award of contract. Obtain a *Best Value Contracting Application* by calling 608/266-4018 or complete one online at:

countyofdane.com/pwht/BVC_Application.aspx

Facility:

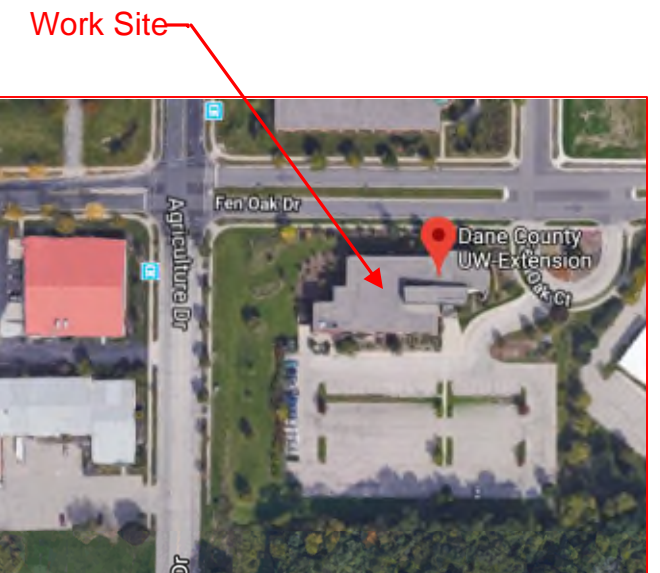
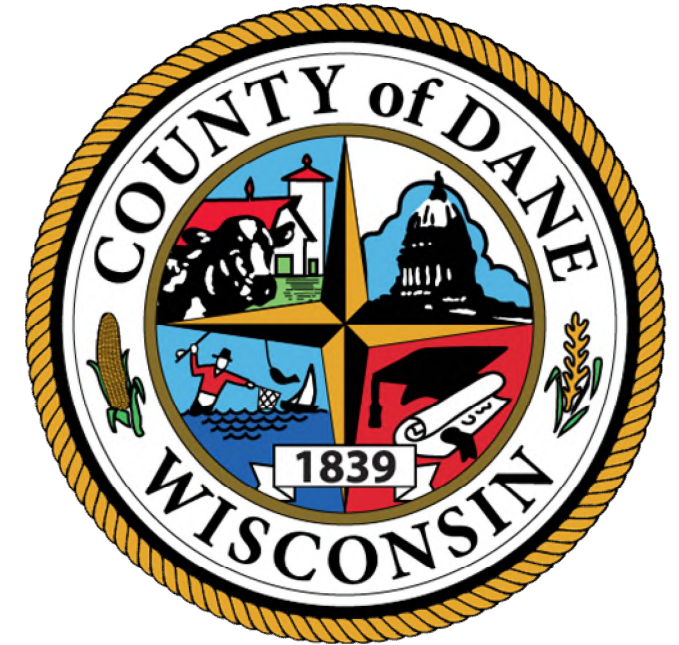
Dane County
Lyman F. Anderson Agriculture &
Conservation Center

Project:

Facility Card Access System
Dane County Public Works
Project No.: 317039

Location:

5201 Fen Oak Drive
Madison, WI 53713



CBRE|ESI Contact Information:

Brett Shinkle – Project Manager
1-800-522-0372
www.thinkESI.com

Operations Support Center
1-877-264-0657
support@thinkESI.com



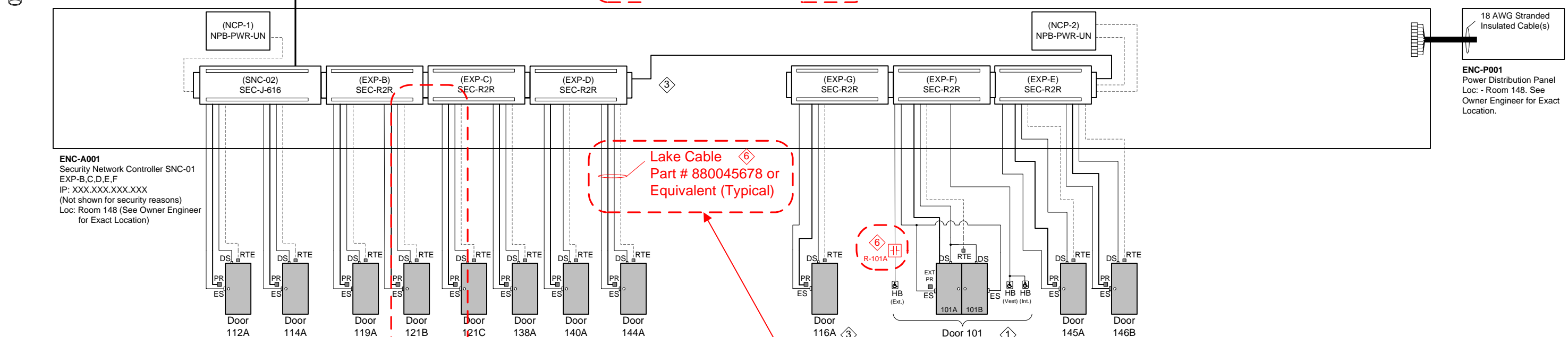
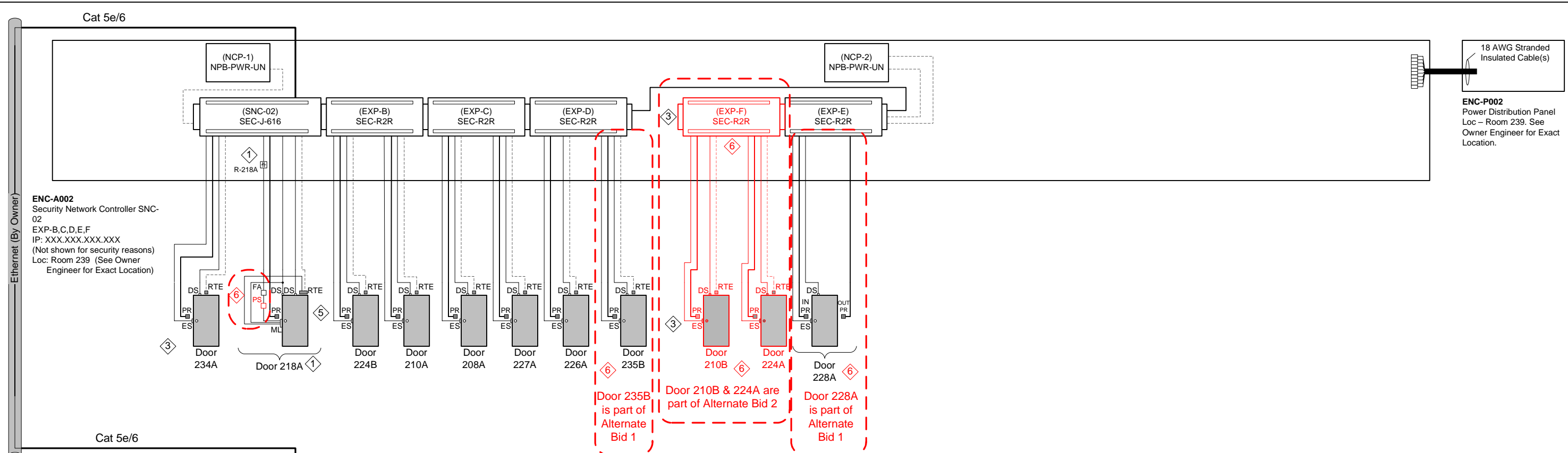
Drawing Creation	Date: 03/13/2018
Latest Revision	Date: 07/03/2018

Drawing Index	
Page	Description
001	Title Page
002	Drawing Index & Revision History
003	Access Control - Riser Diagram
004a	First Floor Plan & Equipment Locations
004b	Second Floor Plan & Equipment Locations
005a	First Floor Escape Routes
005b	Second Floor Escape Routes
006	Door Sequences
008	Mounting & Connection Details – Door Contacts
100	ENC-A001 – Sec. Network Controller SNC-01, EXP-B,C,D,E,F, G – Panel Detail & BOM
100a	ENC-A001 – SNC-01 – Doors 112A, 114A – Termination Detail & BOM
100b	ENC-A001 – SNC-01 EXP-B – Doors 119A, 121B – Termination Detail & BOM
100c	ENC-A001 – SNC-01 EXP-C – Doors 121C, 138A – Termination Detail & BOM
100d	ENC-A001 – SNC-01 EXP-D – Doors 140A, 144A – Termination Detail & BOM
100e	ENC-A001 – SNC-01 EXP-E – Doors 145A, 146B – Termination Detail & BOM
100f	ENC-A001 – SNC-01 EXP-F – Doors 101A, 101B – Termination Detail & BOM
100g	ENC-A001 – SNC-01 EXP-G – Door 116A – Termination Detail & BOM
200	ENC-A002 – Sec. Network Controller SNC-02, EXP-B,C,D,E,F – Panel Detail & BOM
200a	ENC-A002 – SNC-02 – Doors 234A, 218A – Termination Detail & BOM
200b	ENC-A002 – SNC-02 EXP-B – Doors 224B, 210A – Termination Detail & BOM
200c	ENC-A002 – SNC-02 EXP-C – Doors 208A, 227A – Termination Detail & BOM
200d	ENC-A002 – SNC-02 EXP-D – Doors 226A, 235B – Termination Detail & BOM
200e	ENC-A002 – SNC-02 EXP-E – Door 228A – Termination Detail & BOM
200f	ENC-A002 – SNC-02 EXP-F – Door 210B, 224A – Termination Detail & BOM
P01	ENC-P001 – Access Control Power Distribution Panel – Termination Detail & BOM
P02	ENC-P002 – Access Control Power Distribution Panel – Termination Detail & BOM
S01	Access Control Door Schedule
Owner Work	Work By Owner

Revision History			
Revision	Date	Project Description	Affected/New Drawings
Original	03/16/2018	Job#221400010 - Facility Card Access	001,002,003,004,005,008,100,100a,100b,100c,100d,100e,100f,200,200a,200b,200c,200d,200e,200f,P01,P02,S01
①	03/30/2018	Engineer Comments, Release for Elec. Bid	001,002,003,004,005,008,100,100a,100b,100c,100d,100e,100f,200,200a,200b,200c,200d,200e,200f,P01,P02,S01
②	04/25/2018	Owner Provid. Info., Release for Elect. Bid	001,002,Owner Annex(OA)
③	05/02/2018	Modified Door Loc., Release for Elect. Bid	001,002,003,004,005,100,100g,200,200a,200e,200f,P01,P02,S01,OA
④	06/05/2018	Release for Review	001,002,003,004,005,100,100a,100b,100c,100d,100e,100f,100g,200,200a,200b,200c,200d,200e,200f,P01,P02,S01,OA
⑤	06/14/2018	Addendum No. 1	001,002,003,004a,004b,005a,005b,006,100,200,200a,S01,Owner Work
⑥	07/03/2018	Addendum No. 2	001,002,003,004a,004b,100a,100b,100f,200,200a,200d,200e,200f,S01,Owner Work

TITLE: Dane County - Lyman F. Anderson A & C Center - Card Access System - DC PN 317039
 DESCRIPTION: Drawing Index & Revision History
 JOB #: 22181400010
 DRAWN BY: Steve Ferns
 SCALE: NTS
 DWG PAGE #: 002
 APPROVED BY: Brett Shinkle
 DATE: 03/13/2018
 FILENAME: Dane Co - Fen Oak - 2018_06_15 - Access Dwg.vsd

REV.	DATE	DESCRIPTION
①		
②		
③		
④		
⑤		
⑥		
⑦		
⑧		
⑨		
⑩		



DOOR LEGEND

- DS = Door Status Contacts
- ES = Electric Door Strike
- FA = Fire Alarm
- HB = Handicap Access Button
- ML = Mag-Lock
- PB = Momentary Push Button
- PR = Proximity Card Reader
- PS = Emergency Pull Switch
- RB = Alarm Reset Button
- RTE = Request to Exit (Motion Detector)

RISER - CABLE LEGEND





- = 2-Conductor
- - - = 4-Conductor
- = 6-Conductor Shielded
- - - = By Electrical Contractor
- = CAT5e/6 - Ethernet (Belden 1500A or Better)

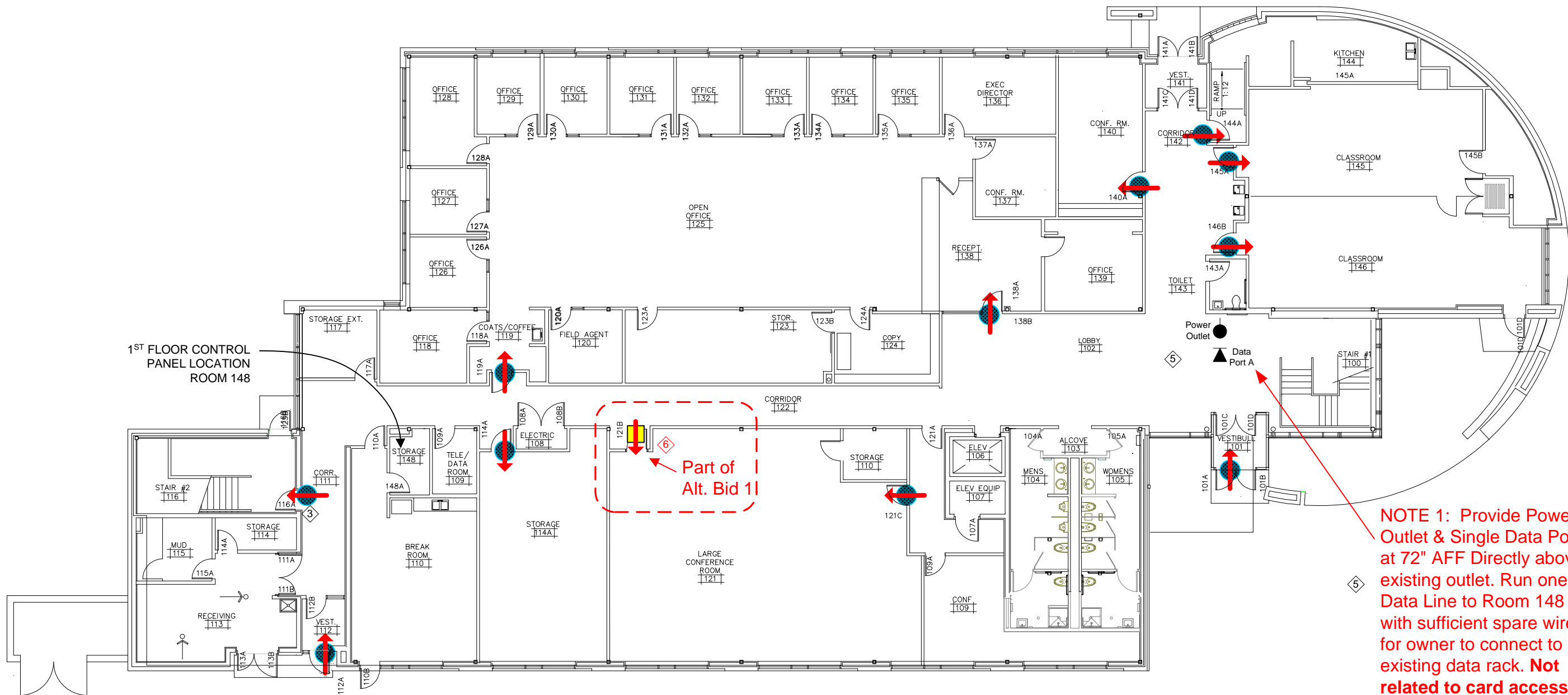
Wire sizes and specifications adjusted. See Termination Detail Dwg.

TITLE: Dane County - Lyman F. Anderson A & C Center - Card Access System - DC PN 317039	
DESCRIPTION: Access Control - Riser Diagram	
DRAWN BY: Steve Ferns	APPROVED BY: Brett Shinkle
JOB #: 22181400010	DATE: 03/13/2018
DWG PAGE #: 003	SCALE: NTS
FILENAME: Dane Co - Fen Oak - 2018_06_15 - Access Dwg.vsd	

REV.	DESCRIPTION	DATE	BY
6	Project # 22181400010 - Addendum No. 2	07/03/18	SEF
5	Project # 22181400010 - Addendum No. 1	06/14/18	SEF
3	Modified A Door Acc Equip Loc, Rel to Bid	05/02/18	SEF
1	Engr Comments, Release for Electrical Bid	03/30/18	SEF

Key:


-  Proximity Reader – Base Bid
-  Proximity Card Reader – Alt Bid 1
-  Proximity Card Reader – Alt Bid 2
-  Tail of Arrow is Prox Reader Side

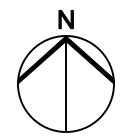


1ST FLOOR CONTROL
PANEL LOCATION
ROOM 148

Part of
Alt. Bid 11

NOTE 1: Provide Power
Outlet & Single Data Port
at 72" AFF Directly above
existing outlet. Run one (1)
Data Line to Room 148
with sufficient spare wire
for owner to connect to
existing data rack. **Not**
related to card access
system work.

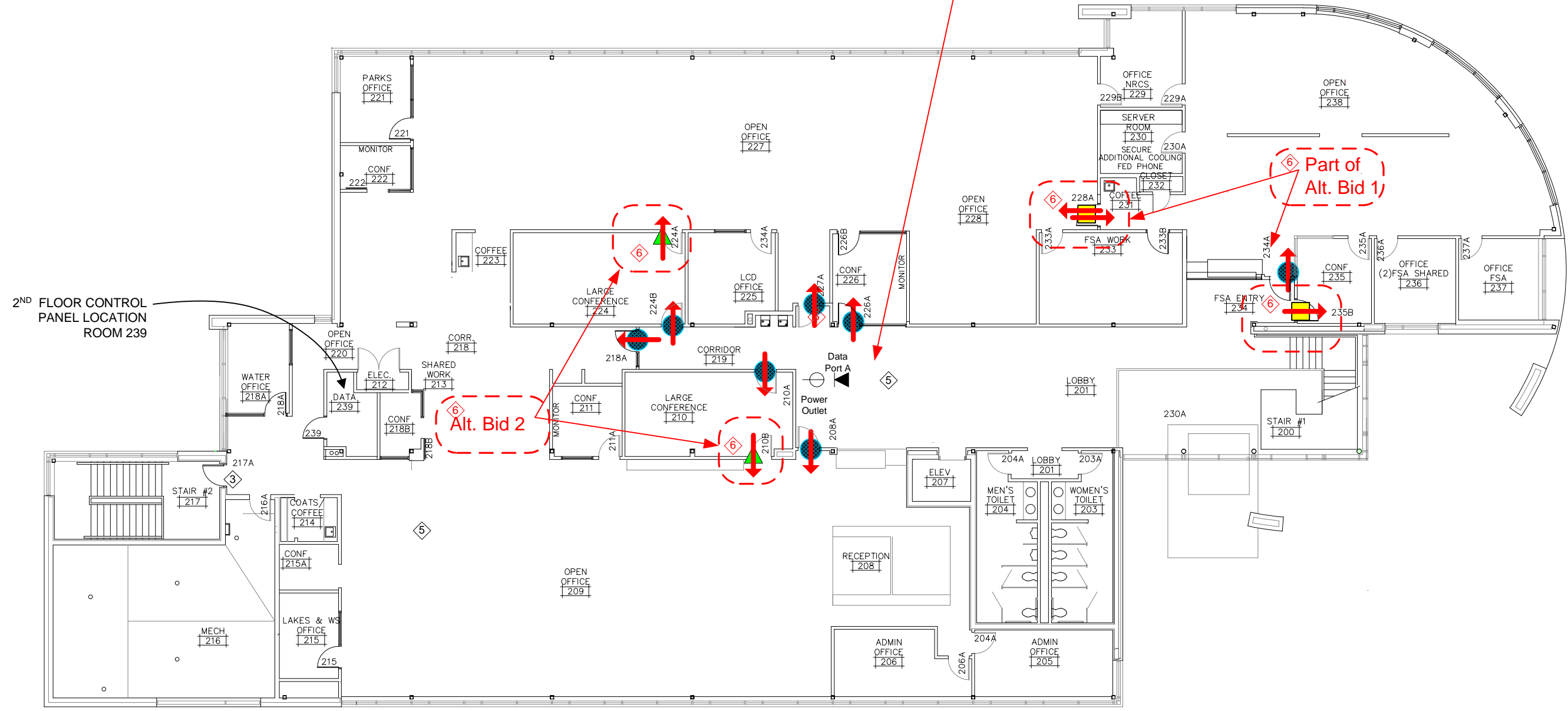
FIRST FLOOR 
LYMAN F. ANDERSON CENTER
DCPW: 3-16-18
SCALE: NONE



TITLE: Dane County - Lyman F. Anderson A & C Center - Card Access System - DC PN 317039	
DESCRIPTION: First Floor Plan & Equipment Locations	
DRAWN BY: Steve Ferns	APPROVED BY: Brett Shinkle
JOB #: 22181400010	DATE: 03/20/2018
DWG PAGE #: 004a	SCALE: NTS
FILENAME: Dane Co - Fen Oak - 2018_06_15 - Access Dwg.vsd	

REV.	DESCRIPTION	DATE	BY
6	Project # 22181400010 - Addendum No. 2	07/03/18	SEF
5	Project # 22181400010 - Addendum No. 1	06/14/18	SEF
3	Modified A Door Acc Equip Loc. Rel to Bid	05/02/18	SEF
1	Engr Comments, Release for Electrical Bid	03/30/18	SEF

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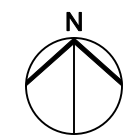
2ND FLOOR CONTROL
PANEL LOCATION
ROOM 239

NOTE 2: Provide Power Outlet & Single Data Port at 72" AFF Directly above existing outlet. Run one (1) Data Line to Room 239 with sufficient spare wire for owner to connect to existing data rack. **Not related to card access system work.**

Key:

- Proximity Reader – Base Bid
- Proximity Card Reader – Alt Bid 1
- ▲ Proximity Card Reader – Alt Bid 2
- Tail of Arrow is Prox Reader Side

SECOND FLOOR
LYMAN F. ANDERSON CENTER
DCPW: 3-16-18
SCALE: NONE

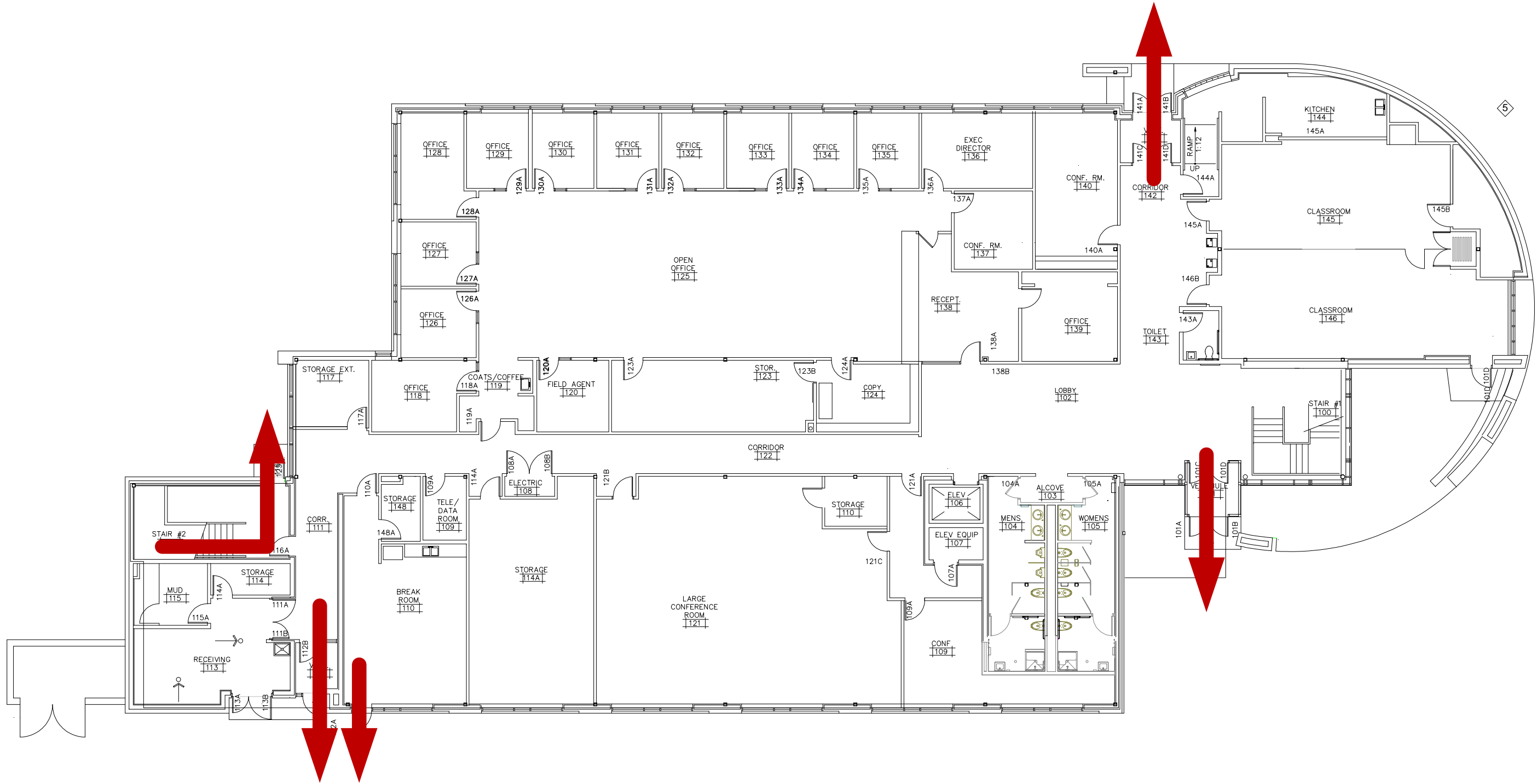


TITLE: Dane County - Lyman F. Anderson A & C Center - Card Access System - DC PN 317039	
DESCRIPTION: Second Floor Plan & Equipment Locations	
DRAWN BY: Steve Ferns	APPROVED BY: Brett Shinkle
JOB #: 22181400010	DATE: 03/20/2018
DWG PAGE #: 004b	SCALE: NTS
FILENAME: Dane Co - Fen Oak - 2018_06_15 - Access Dwg.vsd	

REV.	DESCRIPTION	DATE	BY
6	Project # 22181400010 - Addendum No. 2	07/03/18	SEF
5	Project # 22181400010 - Addendum No. 1	06/14/18	SEF
3	Modified A Door Acc Equip Loc. Rel to Bid	05/02/18	SEF
1	Engr Comments, Release for Electrical Bid	03/30/18	SEF

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FIRST FLOOR ESCAPE ROUTES



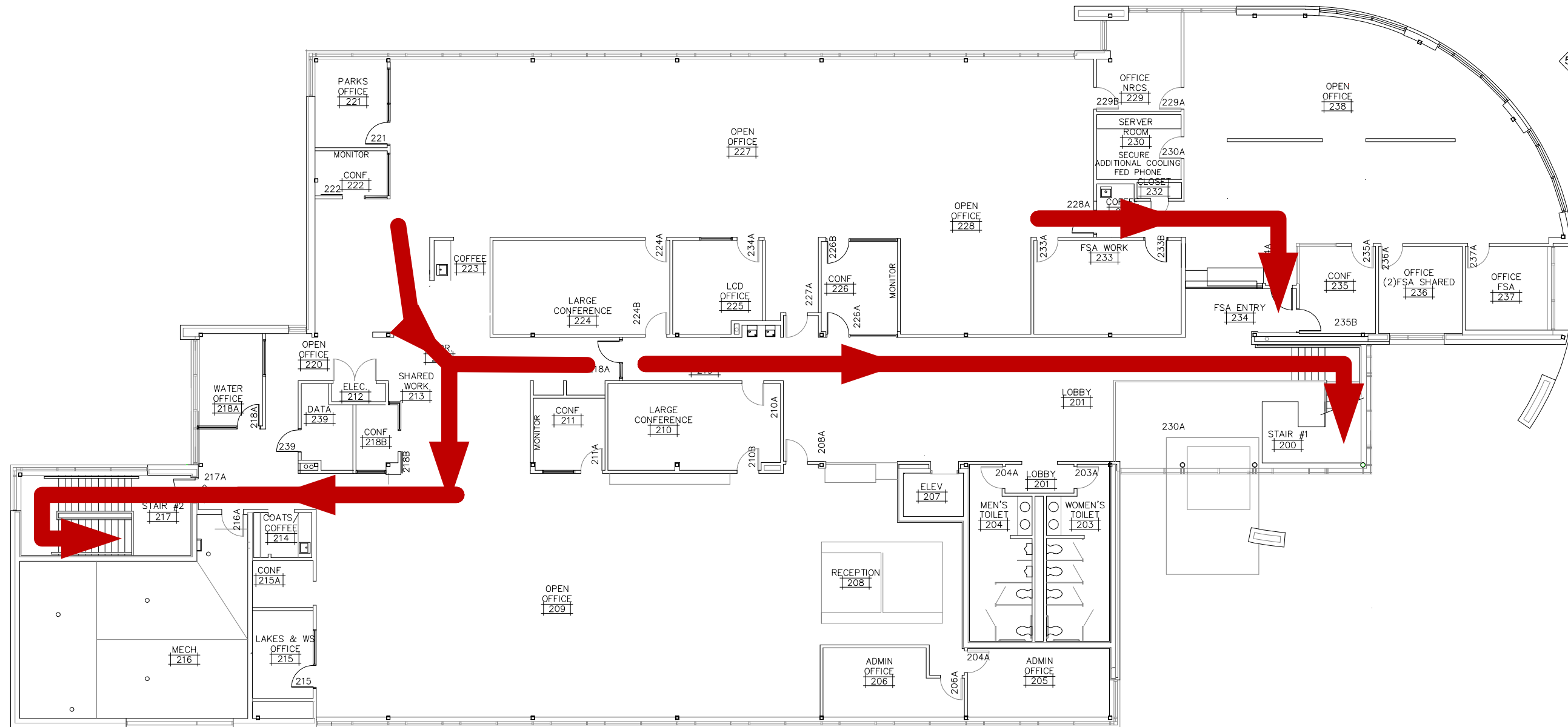
FIRST FLOOR
 LYMAN F. ANDERSON CENTER
 DCPW: 3-16-18
 SCALE: NONE

TITLE: Dane County - Lyman F. Anderson A & C Center - Card Access System - DC PN 317039	
DESCRIPTION: First Floor Escape Routes	
DRAWN BY: Steve Ferns	APPROVED BY: Brett Shinkle
JOB #: 22181400010	DATE: 03/20/2018
DWG PAGE #: 005a	SCALE: NTS
FILENAME: Dane Co - Fen Oak - 2018_06_15 - Access Dwg.vsd	

REV.	DESCRIPTION	DATE	BY
5	Project # 22181400010 - Addendum No. 1	06/14/18	SEF
3	Modified A Door Acc Equip Loc. Rel to Bid	05/02/18	SEF
1	Engr Comments, Release for Electrical Bid	03/30/18	SEF

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SECOND FLOOR ESCAPE ROUTES



SECOND FLOOR
 LYMAN F. ANDERSON CENTER
 DCPW: 3-16-18
 SCALE: NONE

TITLE: Dane County - Lyman F. Anderson A & C Center - Card Access System - DC PN 317039 DESCRIPTION:		Second Floor Escape Routes APPROVED BY: Brett Shinkle DATE: 03/20/2018	
Project # 22181400010 - Addendum No. 1 Modified A Door Acc Equip Loc, Rel to Bid Engr Comments, Release for Electrical Bid		DRAWN BY: Steve Ferns SCALE: NTS FILENAME: Dane Co - Fen Oak - 2018_06_15 - Access Dwg.vsd	
5	6/14/18	SEF	BY
3	05/02/18	SEF	DATE
1	03/30/18	SEF	DATE
REV.			DESCRIPTION

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MAGNETIC LOCKED DOOR (Maglock) 5
218A Maglock Door Second Floor

- One crash bar
- One HID card reader
- One fire alarm release relay
- One request to exit (RTE) sensor
- One access relay
- One pull station
- One local sounder installed in maglock
- One (existing) maglock

Maglock Door Secured Side

Person approaching secured side of the door with approved access card credentials

1. Person presents card to card reader
2. Card is validated
3. After access controller validates card, access control panel removes one leg of power (+)
4. As door opens, power is restored to lock
5. Door closes and is locked

Maglock Door Unsecured Side

Person approaching unsecured side of the door

1. Person approaches the door
2. RTE sensor detects person and causes the controll access panel to remove one leg of power (+) from the lock, and door is unlocked
3. Door is opened
4. As door opens power is restored to lock
5. Door closes and is locked.

Maglock Door RTE Failure

In the event the RTE sensor fails:

1. Emergency door release pull station located next to door is manually activated
2. This removes one leg of power (+) from the lock and the door is unlocked.
3. Emergency door release remains active until pull bar is manually reset
4. After manual reset, power is restored to lock
5. Door closes and is locked

Maglock Door Fire or Emergency

In the event the RTE sensor fails:

1. Emergency door release pull station located next to door is manually activated
2. This removes one leg of poer (+_ from the lock and the door is unlocked
3. Emergency door release remains active until pull station is manually reset
4. After manual reset, ower is restored to lock
5. Door closes and is locked

Maglock Door Fire Alarm

When fire alarm is activated:

1. Fire alarm contacts open, remove one leg of poer (+) from the lock, and door is unlocked
2. Only after fire alarm is reset, fire alarm relay closes and restores power to lock
3. Door is closed and is locked

REGULAR (ELECTRIC/RIM) Strike Door: 5
All doors except 218A & 228A & 101A

- One HID card reader (RDR)
- One request to exit sensor (RTE)
- One door position switch (DPS)
- One strike (STK)

Electric Strike Door Secured Side

Person approaching secured side of door with approved access card credentials:

1. Person presents access card at the reader
2. Card is validated
3. After access controller validates card, The access control panel provides DC power to electric lock causing the lock to release.
4. As person opens door, door position sensor detects passage and relock the door immediately
5. Person is now on unsecured side of the door
6. Door is closed and is locked

Electric Strike Door Unsecured Side

Person approaching unsecured side of the door:

1. As person approaches the door, RTE sensor detects movement and shunts door position switch
2. As person grabs door handle, free egress is granted
3. Person exits unsecured side
4. Door closes and is locked

DUAL-SIDED REGULAR STRIKE DOOR: 5
228A Dual-sided electric Strike Door Second Floor

- Two HID card readers (RDR)
- One door position switch (DPS)
- One strike (STK)

Electric Strike Door Secured Side Entry

Person approaching secured side of door with approved access card credentials:

1. Person presents access card at the reader
2. Card is validated.
3. After access controller validates, card, the access control panel provide DC power to electric lock causing the lock to release
4. As person opens door, door position sensor detects passage and relocks the door immediately
5. Door is closed and is locked

Electric Strike Door Secured Side Exit

Person approaching secured side of door with approved access card credentials:

1. Person presents access card at the reader
2. Card is validated.
3. After access controller validates, card, the access control panel provide DC power to electric lock causing the lock to release
4. As person opens door, door position sensor detects passage and relocks the door immediately
5. Door is closed and is locked

REGULAR STRIKE WITH HANDICAP ACCESS BUTTON (HB): 5
Door 101A Electric Strike with HB, First Floor

- One HID card reader (RDR)
- One request to exit sensor (RTE)
- One door position switch (DPS)
- One strike (STK)
- Three handicap access buttons (HB)

Electric Strike Door with HB Entering or Exiting During Occupied Hours

Person approaches either side of door:

1. Electronic strike follows occupied schedule and remains unlocked during occupied schedule, persons free to enter and exit without card
2. HB pressed door leaf 101A automatically opens for programmed amount of time. Door automatically closes after open time expires.

Electric Strike Door with HB Entering or Exiting During Occupied Hours

Person approaching secured side of door with approved access card credentials:

1. Person presents access card at the reader
2. Card is validated
3. After access controller validates card, the access control panel provides DC power to electric lock causing the lock to release.
4. Access control panel also provides DC power to HB relay after card is validated.
5. Once button is compressed, moter engages and opens door automatically
6. As person opens door, door position sensor detects passage and relock the door immediately
7. Person is now on unsecured side of the door
8. Door is closed and is locked

Electric Strike Door with HB Exiting Unsecured Side

Person approaching unsecured side of the door:

1. As person approaches the door, RTE sensor detects movement and shunts door position switch
2. As person grabs door handle, free egress is granted
3. Person exits unsecured side
4. Door closes and is locked

NON-EGRESS DOOR

All doors that are not getting modified in the Facility Card Access Project:

Person approaches either side of door

1. Person grabs the door handle and is granted free egress
2. Person enters door

TITLE: Dane County - Lyman F. Anderson A & C Center - Card Access System - DC PN 317039	SEQUENCES OF OPERATION	DATE: 03/13/2018
DESCRIPTION: Dane County - Lyman F. Anderson A & C Center - Card Access System - DC PN 317039	APPROVED BY: Brett Shinkle	FILENAME: Dane Co - Fen Oak - 2018_06_15 - Access Dwg.yxd
JOB #: 22181400010	DRAWN BY: Steve Ferns	SCALE: NTS
Project # 22181400010 - Addendum No. 1	DWG PAGE #: 006	NTS
REV.	DATE	BY
5	06/14/18	SEF

Mounting & Connection Details – Door Contacts

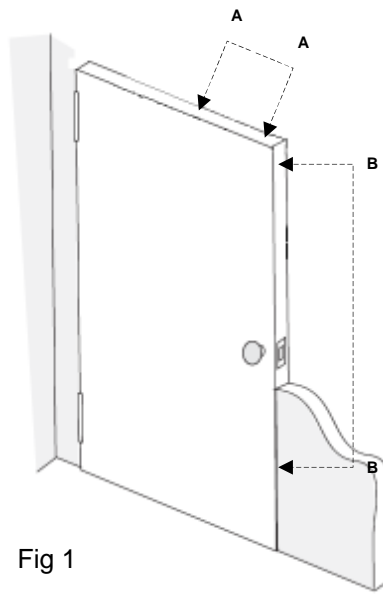
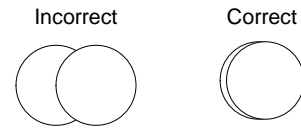


Fig 1

Contact/Magnet Alignment



Single Door: Door status contacts may be installed in locations A or B. See Fig 1

Double Door: Door status contacts may be installed in location A. See Fig 1

Drill a 1" hole for the switch & magnet. See Fig 4

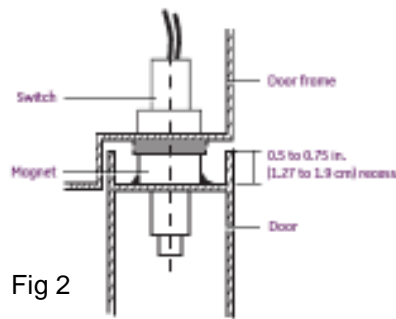


Fig 2

In wood doors drill the hole deep enough so the wire leads will not be crushed when the switch is inserted into the hole. See Fig 4

When mounting the magnet in a metal door the frame on the door may be recessed. The magnet can be raised slightly as long as the body of the magnet provides some support within the hole. Apply rubber silicone around the magnet. See Fig 2

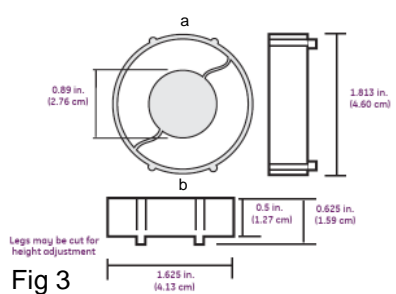


Fig 3

If the metal door has a recessed area too deep to support the magnet, a press fit rare earth magnet may be used. The magnet's outer case is compressed at points a & b, in Fig 3, and placed within the recessed area of the top portion of the door as seen in Fig 2. Once installed place a bead of rubber silicone at the contact points with the door. These magnets will be provided upon request or after it is determined they are needed for the application.

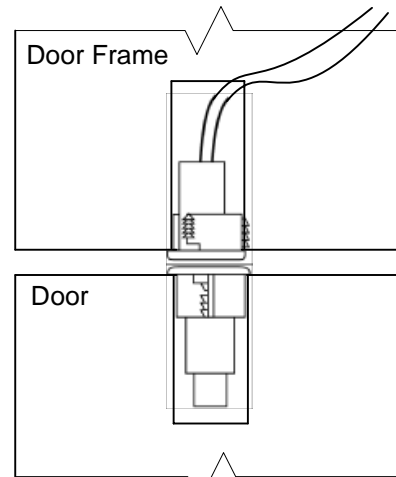


Fig 4

Double doors will have the associated door contacts wired in series as shown in Fig 5.

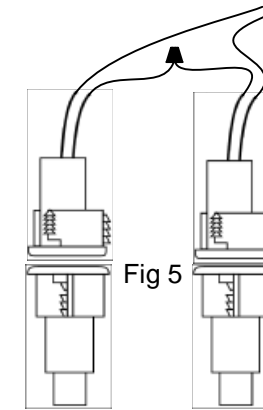


Fig 5

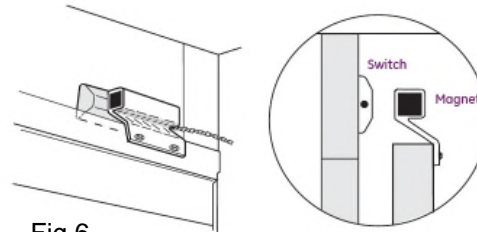


Fig 6

Overhead door contacts may be mounted at the top of the door as shown in Fig 6 or at the bottom of the door as shown in Fig 7 & 8.

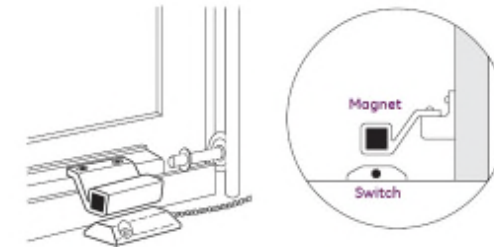


Fig 7

Mounting the contact at the top of the door provides less of a chance that the armored cable will become damaged. The drawback is the bottom of the door could be pried open without tripping the status contact. Contact Environmental Systems Inc.'s Project Manager regarding the correct location for the switch.

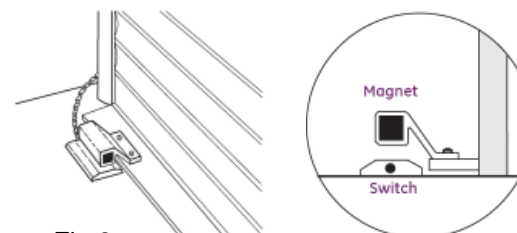


Fig 8

The type of overhead door status contact provided was the specified contact in the bid documents. This contact may not be the best product for every application. Should the installing contractor find the provided product does not work properly for the application please contact the Environmental Systems Inc.'s project manager and a different solution will be provided. See Fig 9 as an example of a substitute solution.

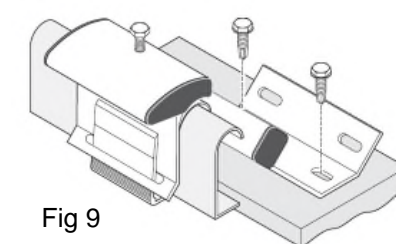


Fig 9

GENERAL NOTES:

- Cap off all unused wires/connections on all devices.
- For all user activated devices, mount @ 48" above floor, per the American Disabilities Act, NFPA & all applicable codes.
- It is the responsibility of the installer to properly configure the jumpers and switches on all field mounted devices.
- Equipment can be position sensitive. It is the responsibility of the installer to verify proper mounting position per manufacturer's installation instructions.

CAT5e/CAT6 Type A Cable Detail
TIA/EIA-568-A

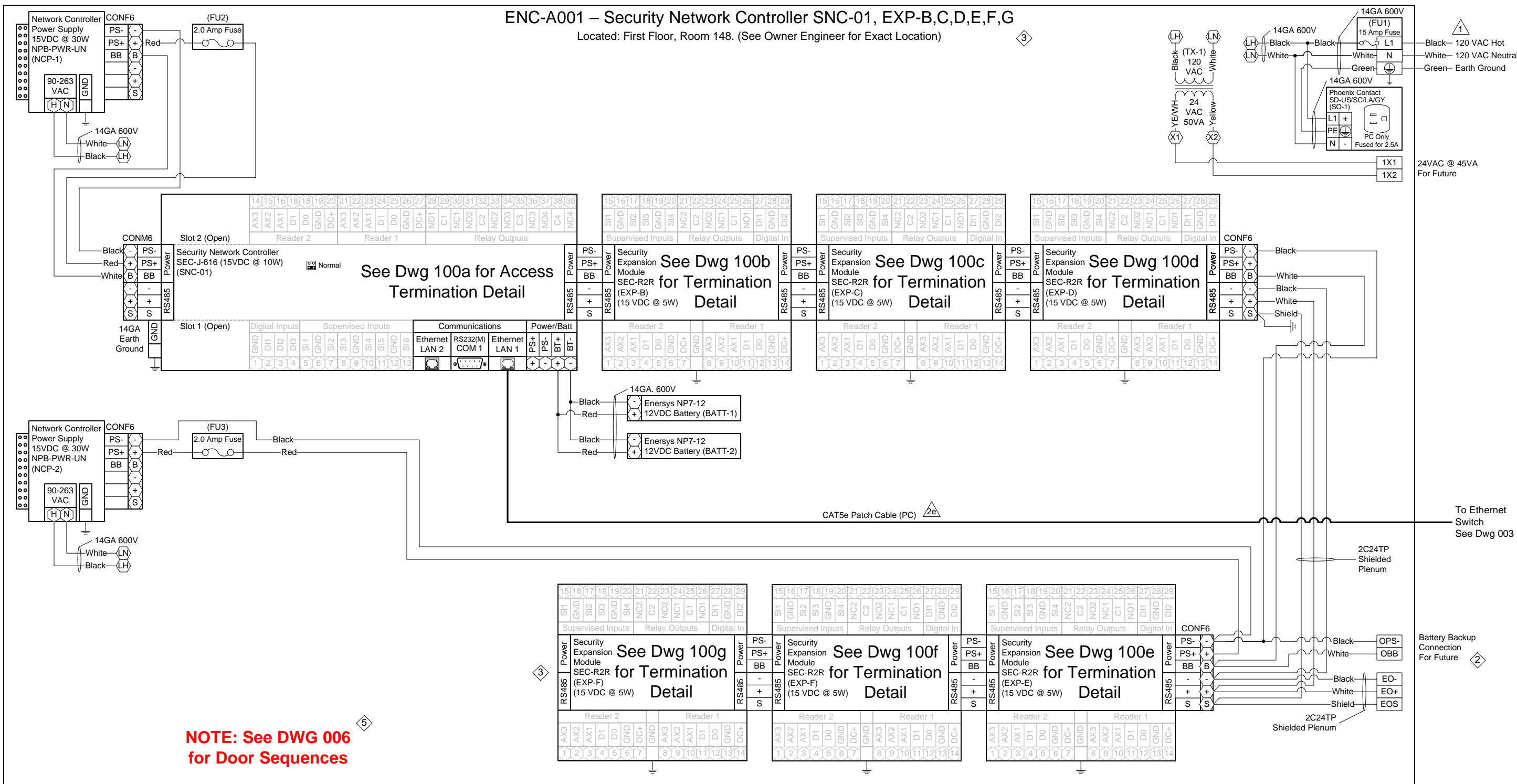
Pin 1	White/Green	Pin 1	White/Green
Pin 2	Green	Pin 2	Green
Pin 3	White/Orange	Pin 3	White/Orange
Pin 4	Blue	Pin 4	Blue
Pin 5	White/Blue	Pin 5	White/Blue
Pin 6	Orange	Pin 6	Orange
Pin 7	White/Brown	Pin 7	White/Brown
Pin 8	Brown	Pin 8	Brown

CAT5e/CAT6 Type B Cable Detail
TIA/EIA-568-B

Pin 1	White/Orange	Pin 1	White/Orange
Pin 2	Orange	Pin 2	Orange
Pin 3	White/Green	Pin 3	White/Green
Pin 4	Blue	Pin 4	Blue
Pin 5	White/Blue	Pin 5	White/Blue
Pin 6	Green	Pin 6	Green
Pin 7	White/Brown	Pin 7	White/Brown
Pin 8	Brown	Pin 8	Brown

ENC-A001 – Security Network Controller SNC-01, EXP-B,C,D,E,F,G

Located: First Floor, Room 148. (See Owner Engineer for Exact Location)



NOTE: See DWG 006 for Door Sequences

SNC-001 – ACCESS MODULE SCHEDULE				
ENC:	Module Tag:	Module Type:	Serves:	Termination Detail Dwg:
ENC-A001	SNC-001	SEC-J-601	Door(s) 112A, 114A	100a
	EXP-B	SEC-R2R	Door(s) 119A, 121B	100b
	EXP-C	SEC-R2R	Door(s) 121C, 138A	100c
	EXP-D	SEC-R2R	Door(s) 140A, 144A	100d
	EXP-E	SEC-R2R	Door(s) 145A, 146B	100e
	EXP-F	SEC-R2R	Door(s) 101A, B	100f
	EXP-G	SEC-R2R	Door(s) 116A	100g

Legend	
XXX	Terminal Block
XX	Controller Terminal
JACE-2/6 SERIAL PORT CONFIGURATION JUMPERS	
Normal	Serial Shell

- 1 NOTE: Installer to provide main disconnect and branch circuit protection. 120 VAC to be supplied from a dedicated 20 Amp branch circuit, with separate Hot, Neutral and Green equipment grounding conductor. Terminate equipment grounding conductor at branch circuit distribution panel, to panel enclosure or grounding conductor by approved means.
- 3 NOTE: Cap off all unused wires/connections on all devices.
- 6 NOTE: It is the responsibility of the installer to properly configure the jumpers and switches on all field mounted devices.

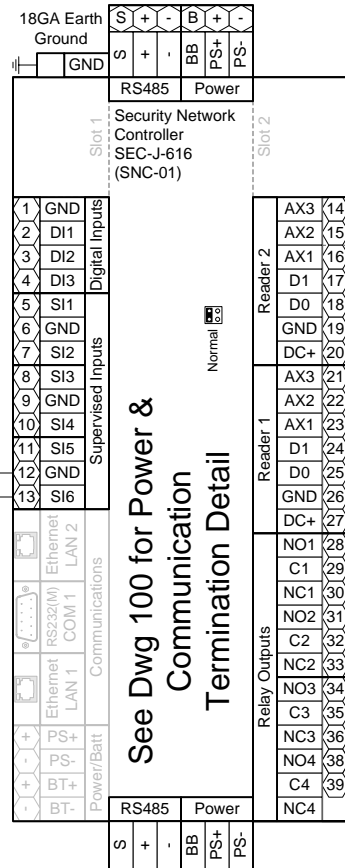
Access Control Panel - Bill of Material				
Tag	Qty.	Part #	Mfg.	Description
ENC-A001	1	A36N24BLP	Hoffman	36"x24"x8.63" Enclosure
	1	A36N24MPP	Hoffman	36"x24" Panel (Perforated)
SNC-01	1	SEC-J-616	Tridium	Security Network Controller
NCP-1,2	2	NPB-PWR-UN	Tridium	90-230VAC/15VDC 30W Universal Power Supply
EXP-B thru G	6	SEC-R2R	Vykon	2 Reader, 4 UI, 4 DO Security Expansion Module
BATT-1,2	2	NP7-12	Energys	7AmpHr 12VDC Battery
CON F6	4	1757051	Phoenix	Green 5.08 6 Position Female Terminal
CON M6	1	1786213	Phoenix	Green 5.08 6 Position Male Terminal
FU1	1	ATQR-15	Ferraz Shaw mut	600VAC 15 Amp Slow-Blo Fuse
	1	USCC1	Ferraz Shaw mut	Fuse Holder
FU2,3	2	314002	Littell Fuse	120VAC 2.0 Amp Fast-Blo Fuse
PC	1	100404GY/100405GY	BestLink	7/10' CAT5e Ethernet Patch Cable
SO-1	1	SD-US/SC/LA/GY	Phoenix	Single Outlet
TX-1	1	TR50VA009	Functional Devices	120/208/240VAC/24VAC 50VA Transformer

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TITLE: Dane County - Lyman F. Anderson A & C Center - Card Access System - DC PN 317039	DATE: 03/13/2018
DESCRIPTION: ENC-A001 – Sec. Network Controller SNC-01, EXP-B,C,D,E,F,G – Panel Detail & BOM	APPROVED BY: Brett Shinkle
JOB #: 22181400010	SCALE: NTS
PROJECT: Project # 22181400010 – Addendum No. 1	DATE: 06/14/18
MODIFIED: Modified A Door Acc Equip Loc. Rel to Bid	DATE: 05/02/18
ENGR: Engr Comments, Release for Electrical Bid	DATE: 03/30/18
REV. 1	BY

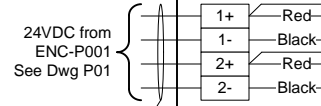
ENC-A001 – Security Network Controller SNC-01 Doors 112A, 114A

From NCP-1
See Dwg 100

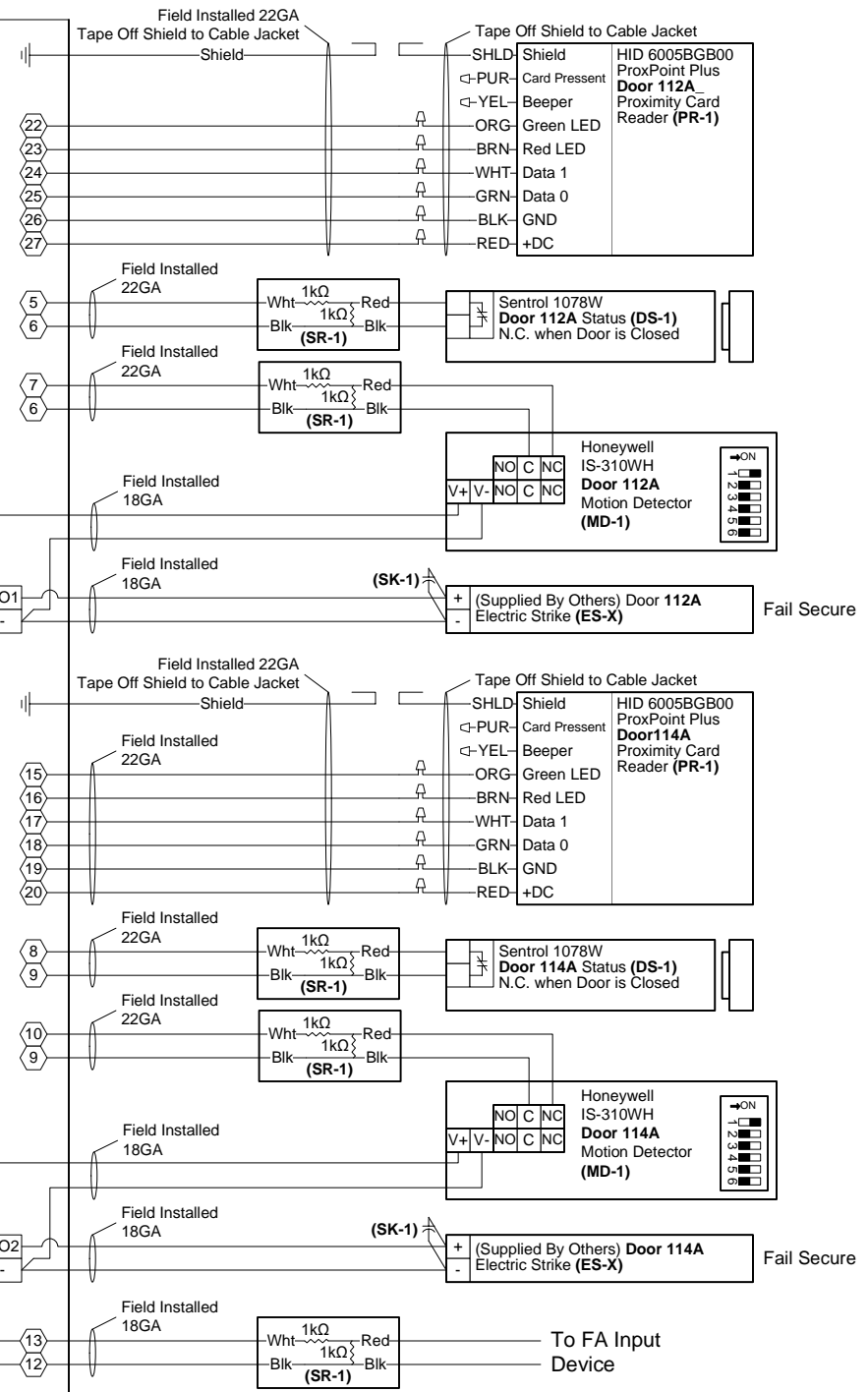


See Dwg 100 for Power & Communication Termination Detail

To: EXP-B
See Dwg 100



Field Installed 18GA



Door 112A

Door 114A

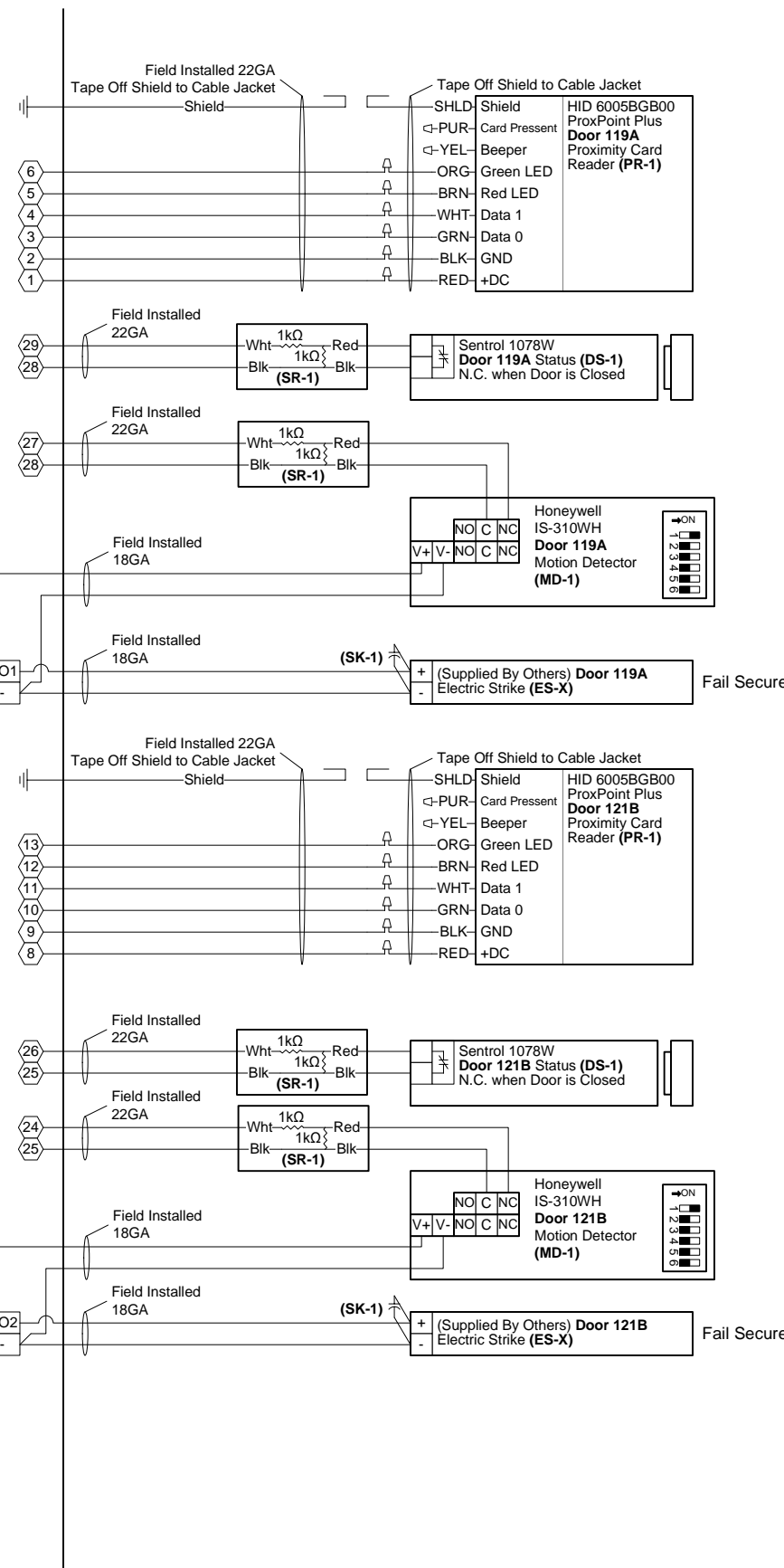
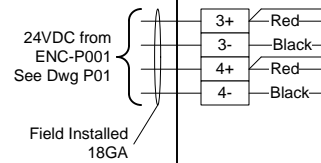
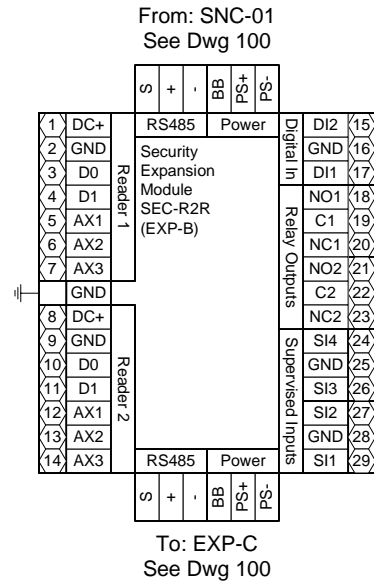
Field Devices - Bill of Material				
Tag	Qty.	Part #	Mfg.	Description
DS-1	2	1078W	Sentrol (By Others)	N.O. Recessed Door Status (1" Dia.)
ES-X	2	By Others	By Others	Electric Door Strike
MD-1	2	IS-310WH	Honeywell (By Others)	Request to Exit - Motion Detector
PR-1	2	6005BGB00	HID (By Others)	Proximity Card Reader
SK-1	2	S4	Northern Computer	S-4 Suppressor Kit
SR-1	5	10747	Tridium	4-Lead Supervisory Resistor Pack

- 3 NOTE: Cap off all unused wires/connections on all devices.
- 5 NOTE: For all user activated devices, mount @ 48" above floor, per the American Disabilities Act, NFPA & all applicable codes.
- 6 NOTE: It is the responsibility of the installer to properly configure the jumpers and switches on all field mounted devices.

TITLE:	Dane County - Lyman F. Anderson A & C Center - Card Access System - DC PN 317039
DESCRIPTION:	ENC-A001 - SNC-01 - Doors 112A, 114A - Termination Detail & BOM
JOB #:	22181400010
DRAWN BY:	Steve Ferns
DATE:	03/13/2018
DWG PAGE #:	100a
SCALE:	NTS
FILENAME:	Dane Co - Fen Oak - 2018_06_15 - Access Dwg.vsd
ENGR COMMENTS:	Release for Electrical Bid
REV.	1

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ENC-A001 - SNC-01 EXP-B
Doors 119A, 121B
Door 121 B is part of Alternate Bid 1



Door 119A

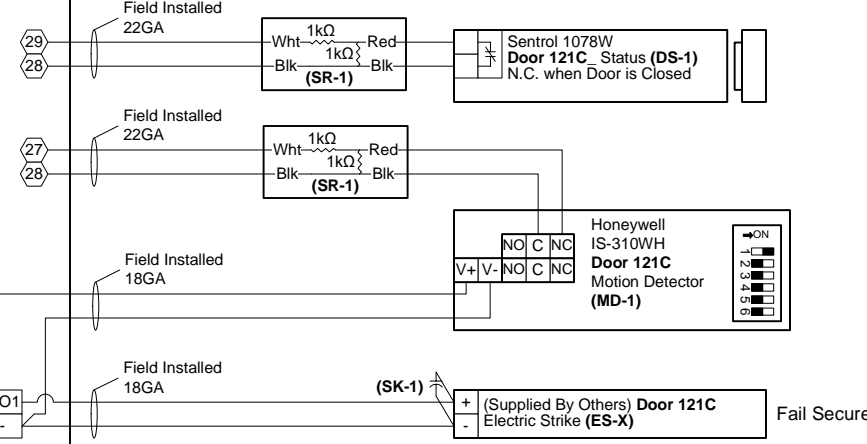
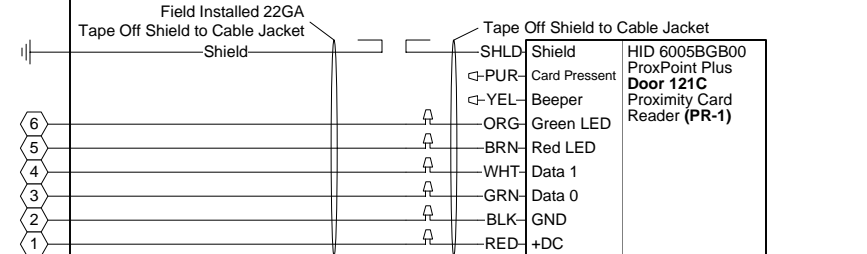
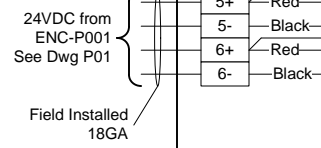
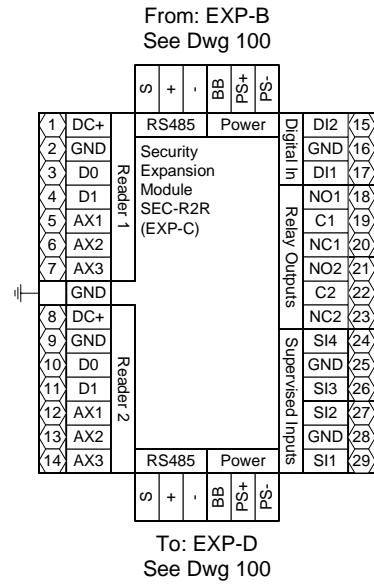
Door 121B

- ⚠ 3 NOTE: Cap off all unused wires/connections on all devices.
- ⚠ 5 NOTE: For all user activated devices, mount @ 48" above floor, per the American Disabilities Act, NFPA & all applicable codes.
- ⚠ 6 NOTE: It is the responsibility of the installer to properly configure the jumpers and switches on all field mounted devices.

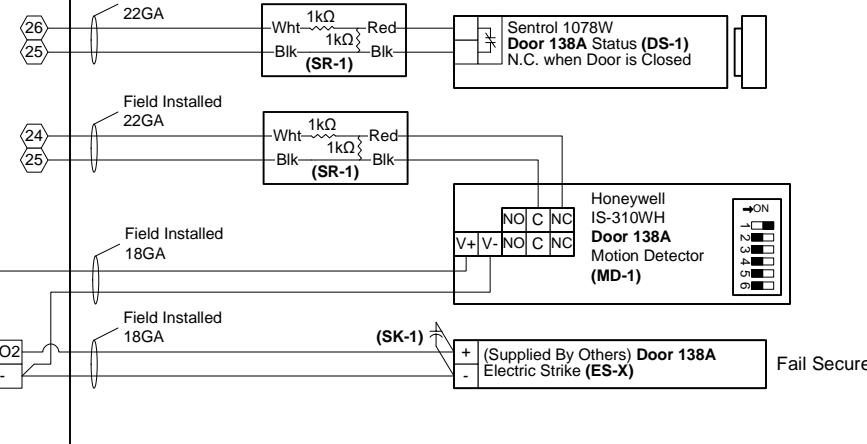
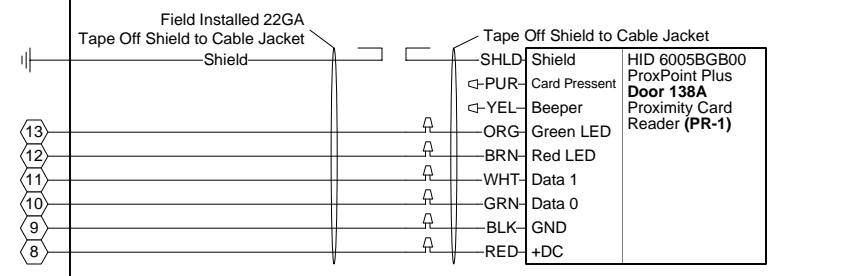
Field Devices - Bill of Material				
Tag	Qty.	Part #	Mfg.	Description
DS-1	2	1078W	Sentrol (By Others)	N.O. Recessed Door Status (1" Dia.)
ES-X	2	By Others	By Others	Electric Door Strike
MD-1	2	IS-310WH	Honeywell (By Others)	Request to Exit - Motion Detector
PR-1	2	6005BGB00	HID (By Others)	Proximity Card Reader
SK-1	2	S4	Northern Computer	S-4 Suppressor Kit
SR-1	4	10747	Tridium	4-Lead Supervisory Resistor Pack

CBRE ESI www.thinkESI.com Copyright 2003-2018 ESI. All rights reserved. Do not copy or duplicate without written permission.		TITLE: Dane County - Lyman F. Anderson A & C Center - Card Access System - DC PN 317039 DESCRIPTION: ENC-A001 - SNC-01 EXP-B - Doors 119A, 121B - Termination Detail & BOM JOB #: 22181400010 DRAWN BY: Steve Ferns APPROVED BY: Brett Shinkle DATE: 03/13/2018 DWG PAGE #: 100b FILENAME: Dane Co - Fen Oak - 2018_06_15 - Access Dwg.vsd SCALE: NTS NTS BY:			
6	1	REV.	Project # 22181400010 - Addendum No. 2 Engr Comments, Release for Electrical Bid	07/03/18 03/30/18 DATE	SEF SEF BY

ENC-A001 - SNC-01 EXP-C
Doors 121C,138A



Door 121C



Door 138A

- 3 NOTE: Cap off all unused wires/connections on all devices.
- 5 NOTE: For all user activated devices, mount @ 48" above floor, per the American Disabilities Act, NFPA & all applicable codes.
- 6 NOTE: It is the responsibility of the installer to properly configure the jumpers and switches on all field mounted devices.

Field Devices - Bill of Material				
Tag	Qty.	Part #	Mfg.	Description
DS-1	2	1078W	Sentrol (By Others)	N.O. Recessed Door Status (1" Dia.)
ES-X	2	By Others	By Others	Electric Door Strike
MD-1	2	IS-310WH	Honeywell (By Others)	Request to Exit - Motion Detector
PR-1	2	6005BGB00	HID (By Others)	Proximity Card Reader
SK-1	2	S4	Northern Computer	S-4 Suppressor Kit
SR-1	4	10747	Tridium	4-Lead Supervisory Resistor Pack

TITLE:	Dane County - Lyman F. Anderson A & C Center - Card Access System - DC PN 317039		
DESCRIPTION:	ENC-A001 - SNC-01 EXP-C - Doors 121C, 138A - Termination Detail & BOM		
JOB #:	22181400010	APPROVED BY:	Brett Shinkle
DATE:	03/13/2018	FILENAME:	Dane Co - Fen Oak - 2018_06_15 - Access Dwg.vsd
DRAWN BY:	Steve Ferns	SCALE:	NTS
DWG PAGE #:	100C	BY	
SEF	03/30/18	DATE	
REV.	1	DESCRIPTION	Engr Comments, Release for Electrical Bid

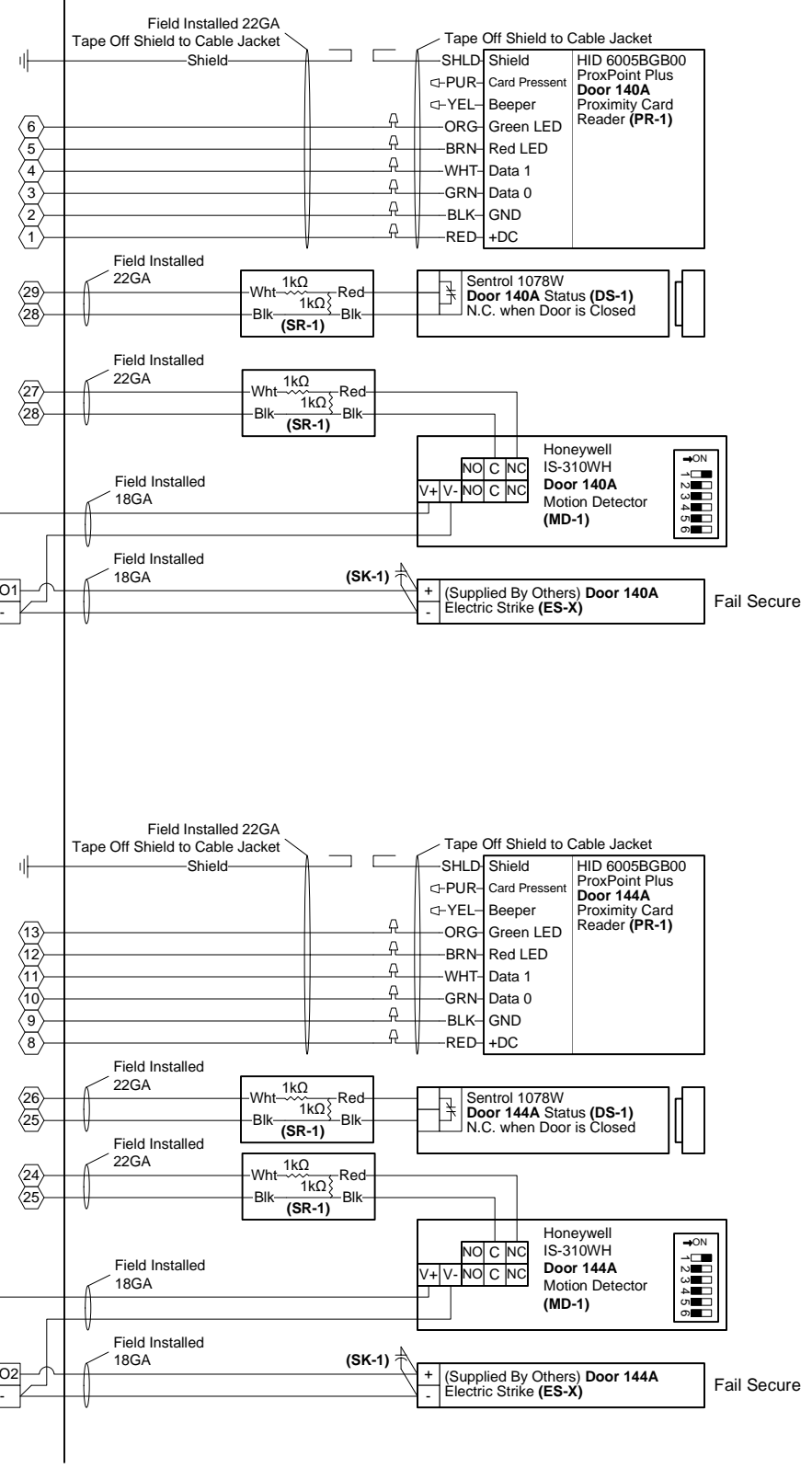
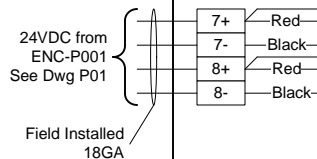
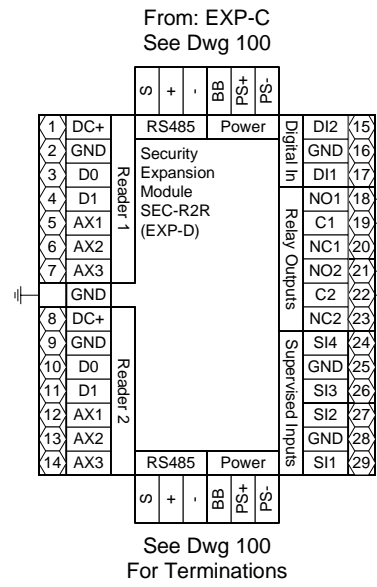
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ENC-A001 - SNC-01 EXP-D
Doors 140A, 144A



Door 140A

Door 144A

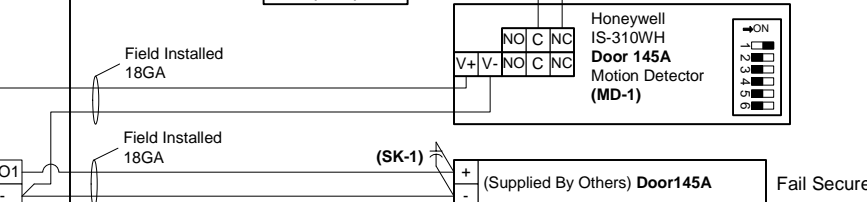
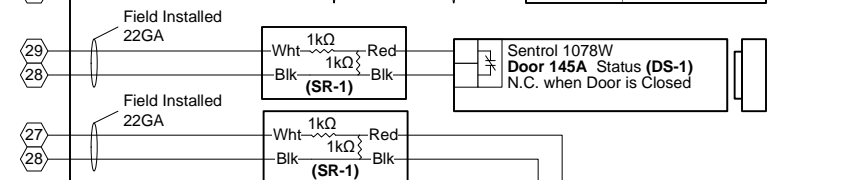
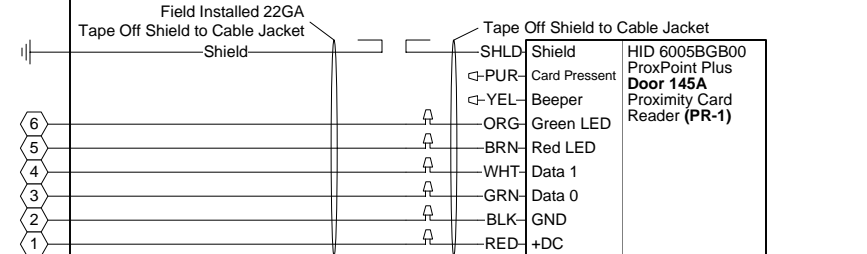
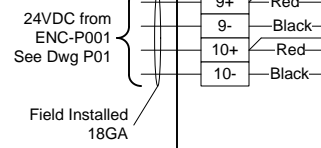
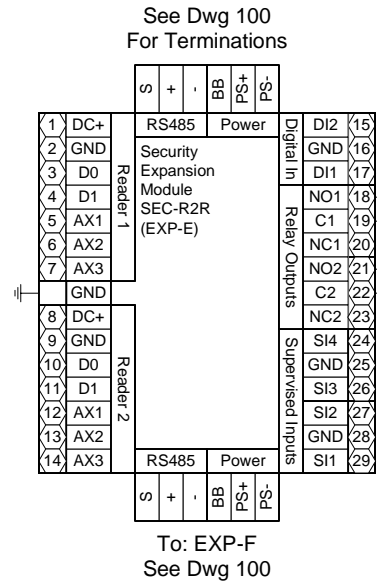
- 3 NOTE: Cap off all unused wires/connections on all devices.
- 5 NOTE: For all user activated devices, mount @ 48" above floor, per the American Disabilities Act, NFPA & all applicable codes.
- 6 NOTE: It is the responsibility of the installer to properly configure the jumpers and switches on all field mounted devices.

Field Devices - Bill of Material				
Tag	Qty.	Part #	Mfg.	Description
DS-1	2	1078W	Sentrol (By Others)	N.O. Recessed Door Status (1" Dia.)
ES-X	2	By Others	By Others	Electric Door Strike
MD-1	2	IS-310WH	Honeywell (By Others)	Request to Exit - Motion Detector
PR-1	2	6005BGB00	HID (By Others)	Proximity Card Reader
S-K-1	2	S4	Northern Computer	S-4 Suppressor Kit
SR-1	4	10747	Tridium	4-Lead Supervisory Resistor Pack

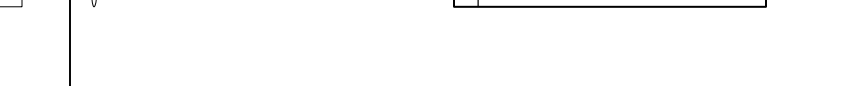
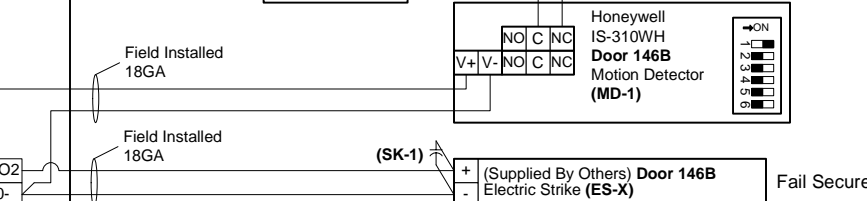
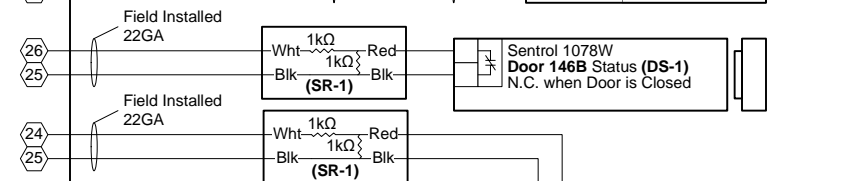
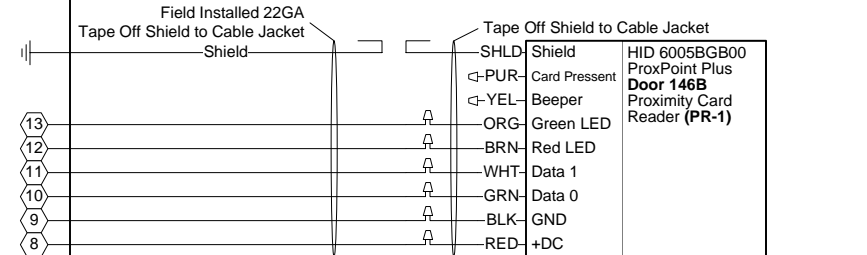
TITLE:	Dane County - Lyman F. Anderson A & C Center - Card Access System - DC PN 317039		
DESCRIPTION:	ENC-A001 - SNC-01 EXP-D - Doors 140A, 144A - Termination Detail & BOM		
JOB #:	22181400010	APPROVED BY:	Brett Shinkle
DATE:	03/13/2018	DATE:	03/13/2018
Engr Comments, Release for Electrical Bid	DATE	SCALE:	NTS
REV.	DATE	BY	
1	03/30/18	SEF	1000
		BY	

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ENC-A001 - SNC-01 EXP-E
Doors 145A, 146B



Door 145A



Door 146B

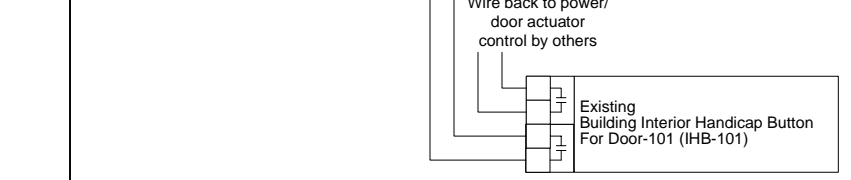
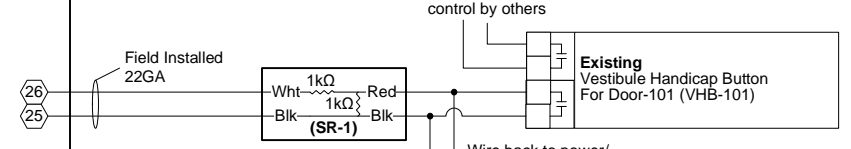
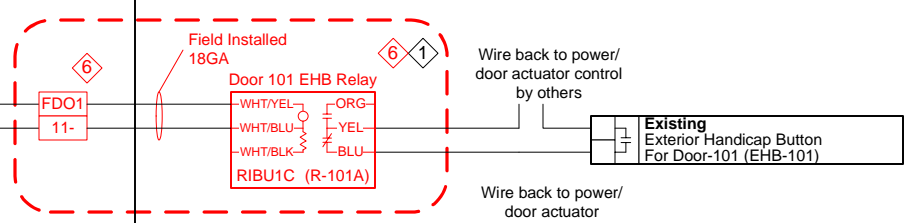
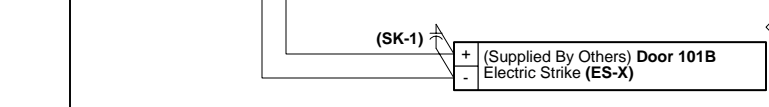
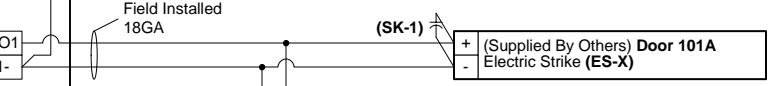
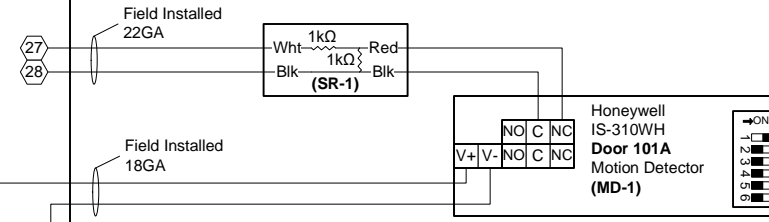
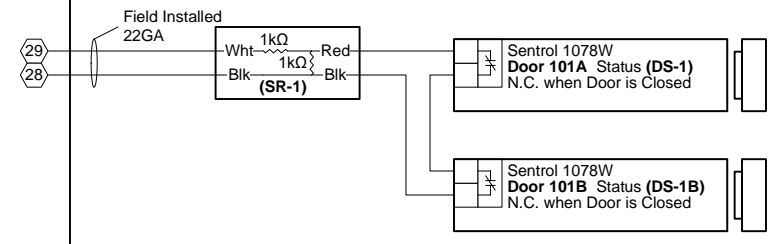
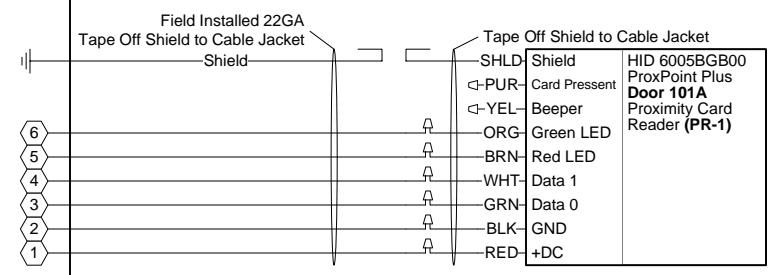
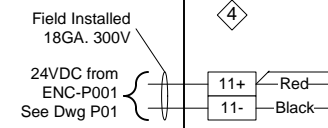
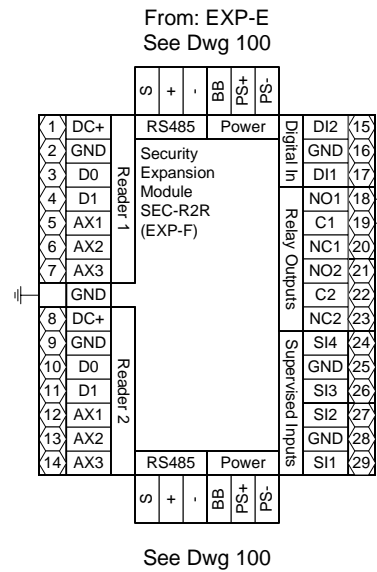
- 3 NOTE: Cap off all unused wires/connections on all devices.
- 5 NOTE: For all user activated devices, mount @ 48" above floor, per the American Disabilities Act, NFPA & all applicable codes.
- 6 NOTE: It is the responsibility of the installer to properly configure the jumpers and switches on all field mounted devices.

Field Devices - Bill of Material				
Tag	Qty.	Part #	Mfg.	Description
DS-1	2	1078W	Sentrol (By Others)	N.O. Recessed Door Status (1" Dia.)
ES-X	2	By Others	By Others	Electric Door Strike
MD-1	2	IS-310WH	Honeywell (By Others)	Request to Exit - Motion Detector
PR-1	2	6005BGB00	HID (By Others)	Proximity Card Reader
SK-1	2	S4	Northern Computer	S-4 Suppressor Kit
SR-1	4	10747	Tridium	4-Lead Supervisory Resistor Pack

TITLE:	Dane County - Lyman F. Anderson A & C Center - Card Access System - DC PN 317039
DESCRIPTION:	ENC-A001 - SNC-01 EXP-E - Doors 145A, 146B - Termination Detail & BOM
JOB #:	22181400010
DATE:	03/13/2018
APPROVED BY:	Brett Shinkle
SCALE:	NTS
FILENAME:	Dane Co - Fen Oak - 2018_06_15 - Access Dwg.vsd
DRAWN BY:	Steve Ferns
DWG PAGE #:	100e
REV.	DESCRIPTION
1	Engr Comments, Release for Electrical Bid
DATE	03/30/18
BY	SEF

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ENC-A001 - SNC-01 EXP-F
Door 101A, 101B



- NOTE: Cap off all unused wires/connections on all devices.
- NOTE: For all user activated devices, mount @ 48" above floor, per the American Disabilities Act, NFPA & all applicable codes.
- NOTE: It is the responsibility of the installer to properly configure the jumpers and switches on all field mounted devices.

Tag	Qty.	Part #	Mfg.	Description
DS-1	2	1078W	Sentrol (By Others)	N.O. Recessed Door Status (1" Dia.)
ES-X	1	By Others	By Others	Electric Door Strike
MD-1	1	IS-310WH	Honeywell (By Others)	Request to Exit Motion Detector
PR-1	2	6005BGB00	HID (By Others)	Proximity Card Reader
R-101A	1	RIBU1C	Functional Devices	10-30VAC/DC/120VAC Coil 10A SPDT Relay
SK-1	2	S4	Northern Computer	S-4 Suppressor Kit
SR-1	3	10747	Tridium	4-Lead Supervisory Resistor Pack
R-101	1	RH2B-UL DC24V	IDEC	DPDT Relay with indicator
	1	SH2B-05	IDEC	Standard DIN Rail Mount

Door 101A

Door 101B

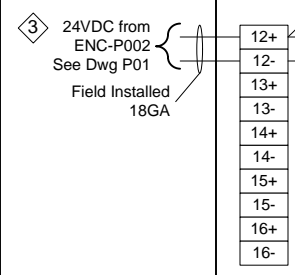
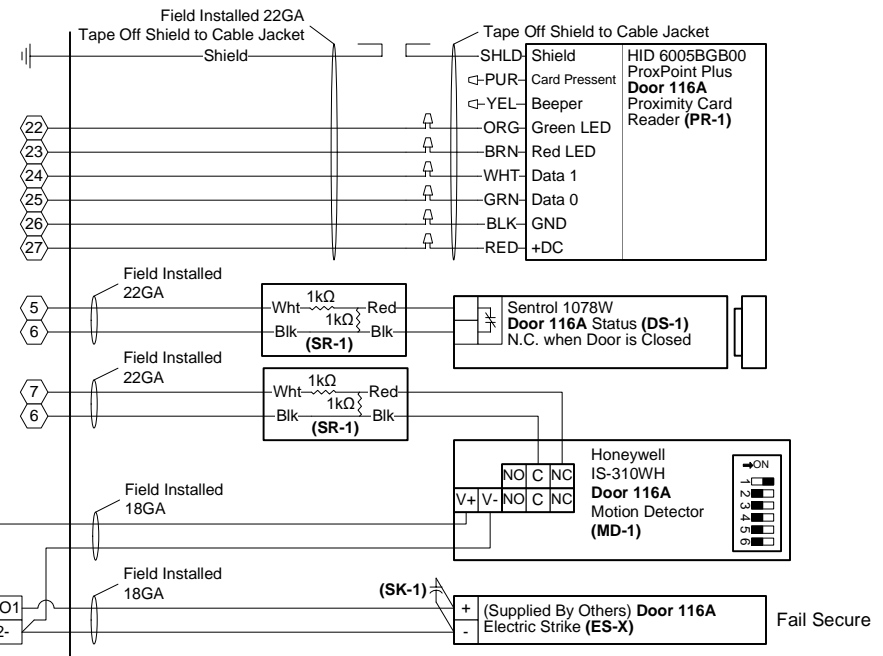
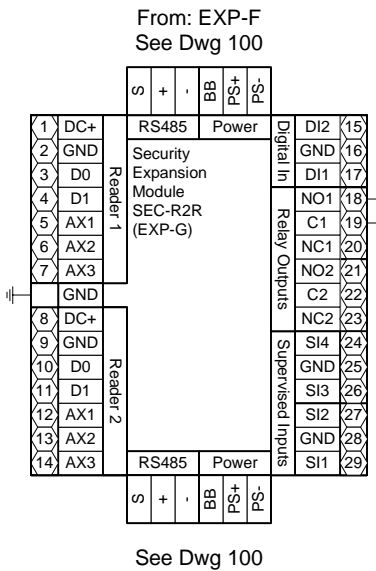
Door 101B

Door 101 Existing Handicap Buttons

TITLE: Dane County - Lyman F. Anderson A & C Center - Card Access System - DC PN 317039			
DESCRIPTION: ENC-A001 - SNC-01 EXP-F - Doors 101A, 101B - Termination Detail & BOM			
Project # 22181400010 - Addendum No. 2	07/03/18	SEF	DATE
Modified A Door Acc Equip Loc. Rel to Bid	05/02/18	SEF	DATE
Engr Comments, Release for Electrical Bid	03/30/18	SEF	DATE
DRAWN BY: Steve Ferns	DATE: 03/13/2018	APPROVED BY: Brett Shinkle	FILENAME: Dane Co - Fen Oak - 2018_06_15 - Access Dwg.vsd
DWG PAGE #: 1007	SCALE: NTS	DATE: 03/13/2018	BY: NTS

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ENC-A001 – SNC-01 EXP-G Door 116A



Field Devices - Bill of Material				
Tag	Qty.	Part #	Mfg.	Description
DS-1	1	1078W	Sentrol (By Others)	N.O. Recessed Door Status (1" Dia.)
ES-X	1	By Others	By Others	Electric Door Strike
MD-1	1	IS-310WH	Honeywell (By Others)	Request to Exit - Motion Detector
PR-1	1	6005BGB00	HID (By Others)	Proximity Card Reader
SK-1	1	S4	Northern Computer	S-4 Suppressor Kit
SR-1	2	10747	Tridium	4-Lead Supervisory Resistor Pack

- 3 NOTE: Cap off all unused wires/connections on all devices.
- 5 NOTE: For all user activated devices, mount @ 48" above floor, per the American Disabilities Act, NFPA & all applicable codes.
- 6 NOTE: It is the responsibility of the installer to properly configure the jumpers and switches on all field mounted devices.

TITLE:	Dane County - Lyman F. Anderson A & C Center - Card Access System - DC PN 317039		
DESCRIPTION:	ENC-A001 – SNC-01 – Door 116A – Termination Detail & BOM		
JOB #:	22181400010	DRAWN BY:	Steve Ferns
DWG PAGE #:	100g	SCALE:	NTS
DATE:	03/13/2018	APPROVED BY:	Brett Shinkle
REV.		FILENAME:	Dane Co - Fen Oak - 2018_06_15 - Access Dwg.vsd

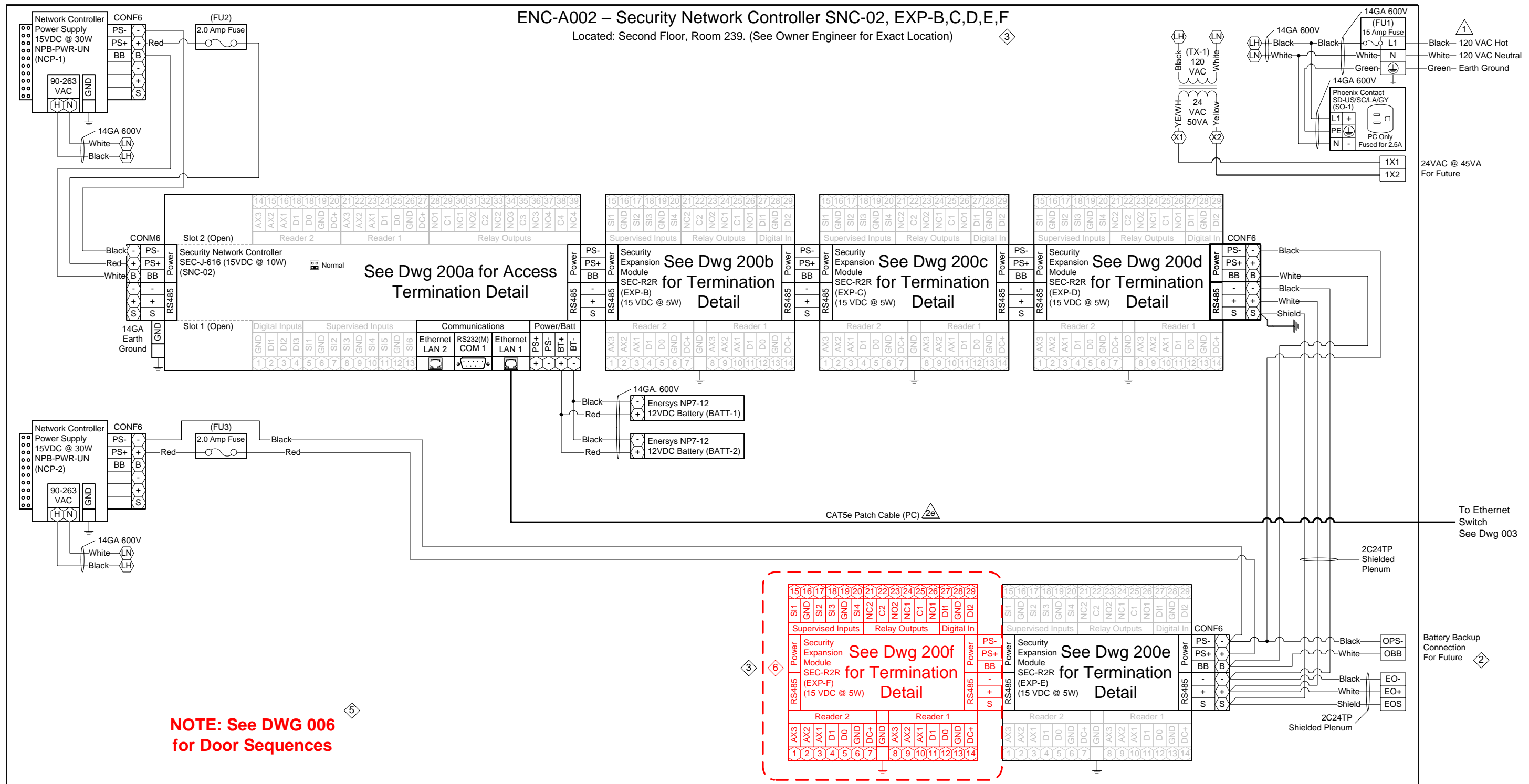
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ENC-A002 – Security Network Controller SNC-02, EXP-B,C,D,E,F

Located: Second Floor, Room 239. (See Owner Engineer for Exact Location)



NOTE: See DWG 006 for Door Sequences

SNC-002 – ACCESS MODULE SCHEDULE				
ENC:	Module Tag:	Module Type:	Serves:	Termination Detail Dwg:
ENC-A002	SNC-002	SEC-J-601	Door(s) 234A, 218A	200a
	EXP-B	SEC-R2R	Door(s) 224B, 210A	200b
	EXP-C	SEC-R2R	Door(s) 208A, 227A	200c
	EXP-D	SEC-R2R	Door(s) 226A, 235B	200d
	EXP-E	SEC-R2R	Door 228A	200e
	EXP-F	SEC-R2R	Door(s) 210B, 224A	200f

Legend	
XXX	Terminal Block
XX	Controller Terminal
JACE-2/6 SERIAL PORT CONFIGURATION JUMPERS	
Normal	Serial Shell

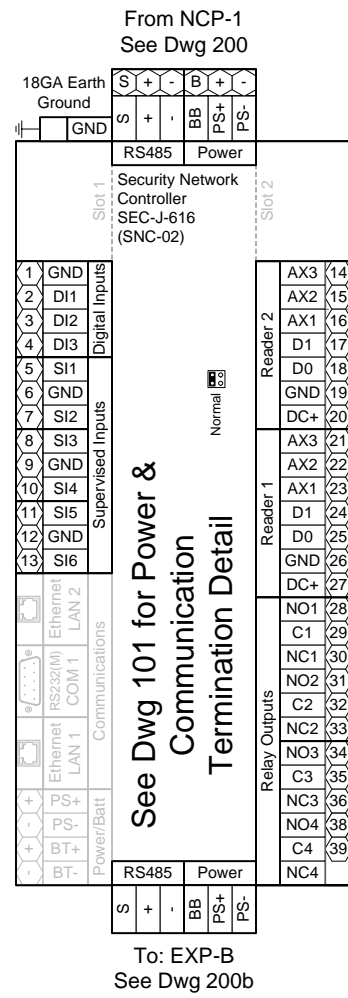
- 1 NOTE: Installer to provide main disconnect and branch circuit protection. 120 VAC to be supplied from a dedicated 20 Amp branch circuit, with separate Hot, Neutral and Green equipment grounding conductor. Terminate equipment grounding conductor at branch circuit distribution panel, to panel enclosure or grounding conductor by approved means.
- 3 NOTE: Cap off all unused wires/connections on all devices.
- 6 NOTE: It is the responsibility of the installer to properly configure the jumpers and switches on all field mounted devices.

Access Control Panel - Bill of Material				
Tag	Qty.	Part #	Mfg.	Description
ENC-A002	1	A36N24BLP	Hoffman	36"x24"x8.63" Enclosure
	1	A36N24MPP	Hoffman	36"x24" Panel (Perforated)
SNC-02	1	SEC-J-616	Tridium	Security Network Controller
NCP-1,2	2	NPB-PWR-UN	Tridium	90-230V AC/15VDC 30W Universal Power Supply
EXP-B thru F	5	SEC-R2R	Vykon	2 Reader, 4 UI, 4 DO Security Expansion Module
BATT-1,2	2	NP7-12	Energys	7AmpHr 12VDC Battery
CON F6	4	1757051	Phoenix	Green 5.08 6 Position Female Terminal
CON M6	1	1786213	Phoenix	Green 5.08 6 Position Male Terminal
FU1	1	ATQR-15	Ferraz Shaw mut	600VAC 15 Amp Slow -Blo Fuse
FU2,3	2	314002	Littel Fuse	120VAC 2.0 Amp Fast-Blo Fuse
PC	1	100404GY/100405GY	BestLink	7/10' CAT5e Ethernet Patch Cable
SO-1	1	SD-US/SC/LA/GY	Phoenix	Single Outlet
TX-1	1	TR50VA009	Functional Devices	120/208/240VAC/24VAC 50VA Transformer

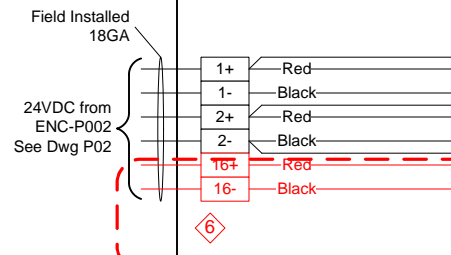
TITLE:		DESCRIPTION:	
Project # 22181400010 - Addendum No. 2	07/03/18	Project # 22181400010 - Addendum No. 1	06/14/18
Modified A Door Acc Equip Loc, Rel to Bid	05/02/18	Engr Comments, Release for Electrical Bid	03/30/18
DATE		DATE	
BY		BY	
DATE		DATE	
DESCRIPTION		DESCRIPTION	

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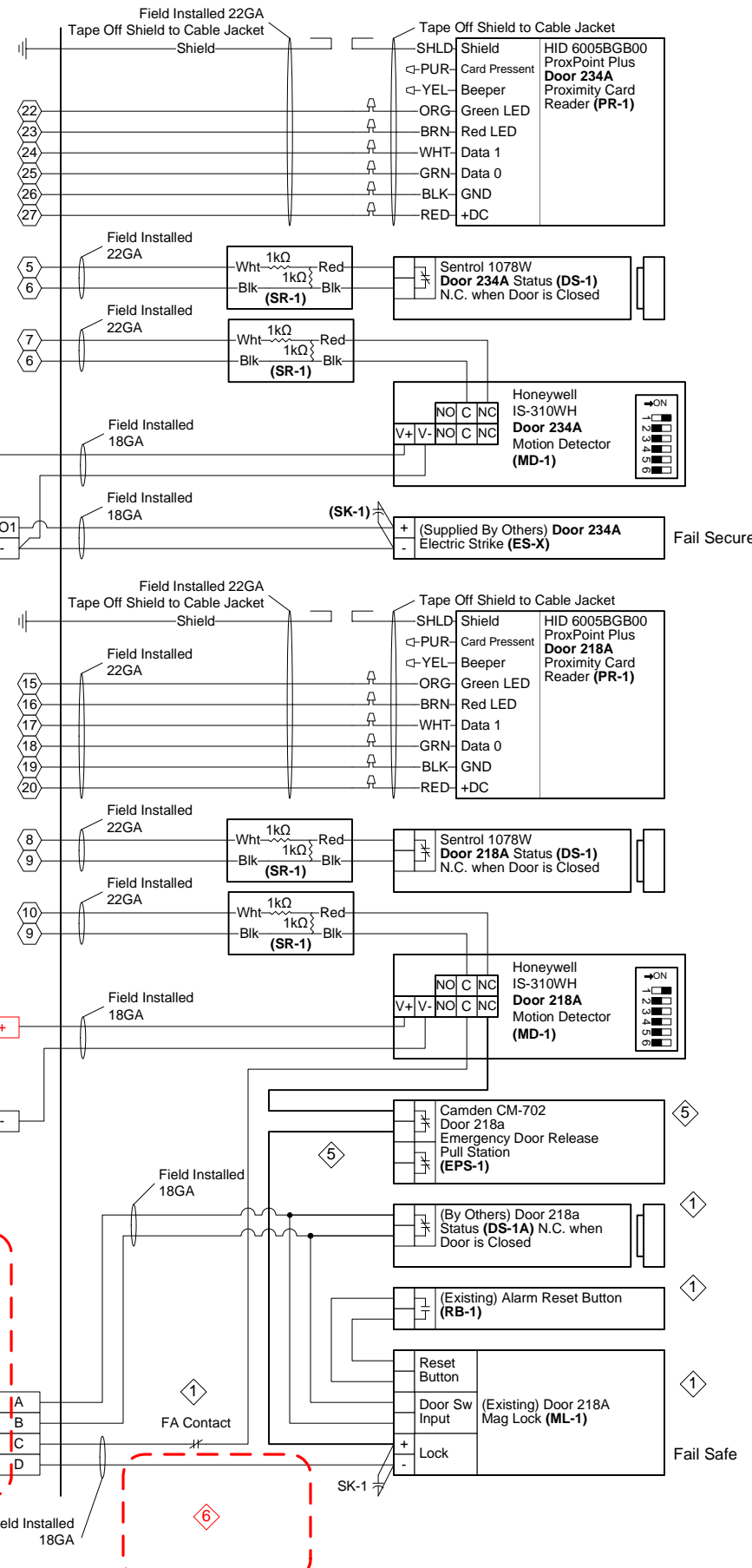
ENC-A002 – Security Network Controller SNC-02
Doors 234A, 218A



To: EXP-B
See Dwg 200b



Field Devices - Bill of Material				
Tag	Qty.	Part #	Mfg.	Description
EPS-1	1	CM-702	Camden	Emergency Door Release Pull Station
DS-1	2	1078W	Sentrol (By Others)	N.O. Recessed Door Status (1" Dia.)
ES-X	2	By Others	By Others	Electric Door Srike
MD-1	2	IS-310WH	Honeywell (By Others)	Request to Exit - Motion Detector
PR-1	2	6005BGB00	HID (By Others)	Proximity Card Reader
SK-1	2	S4	Northern Computer	S-4 Suppressor Kit
SR-1	4	10747	Tridium	4-Lead Supervisory Resistor Pack
R-218A	1	RH2B-UL DC24V	IDEC	DPDT Relay with indicator
	1	SH2B-05	IDEC	Standard DIN Rail Mount
RB-1	1	Existing	Existing (By Others)	Alarm Reset Button
ML-1	1	Existing	Existing (By Others)	Mag Lock
DS-1A	1	Existing	Existing (By Others)	NC Door Status when door is closed



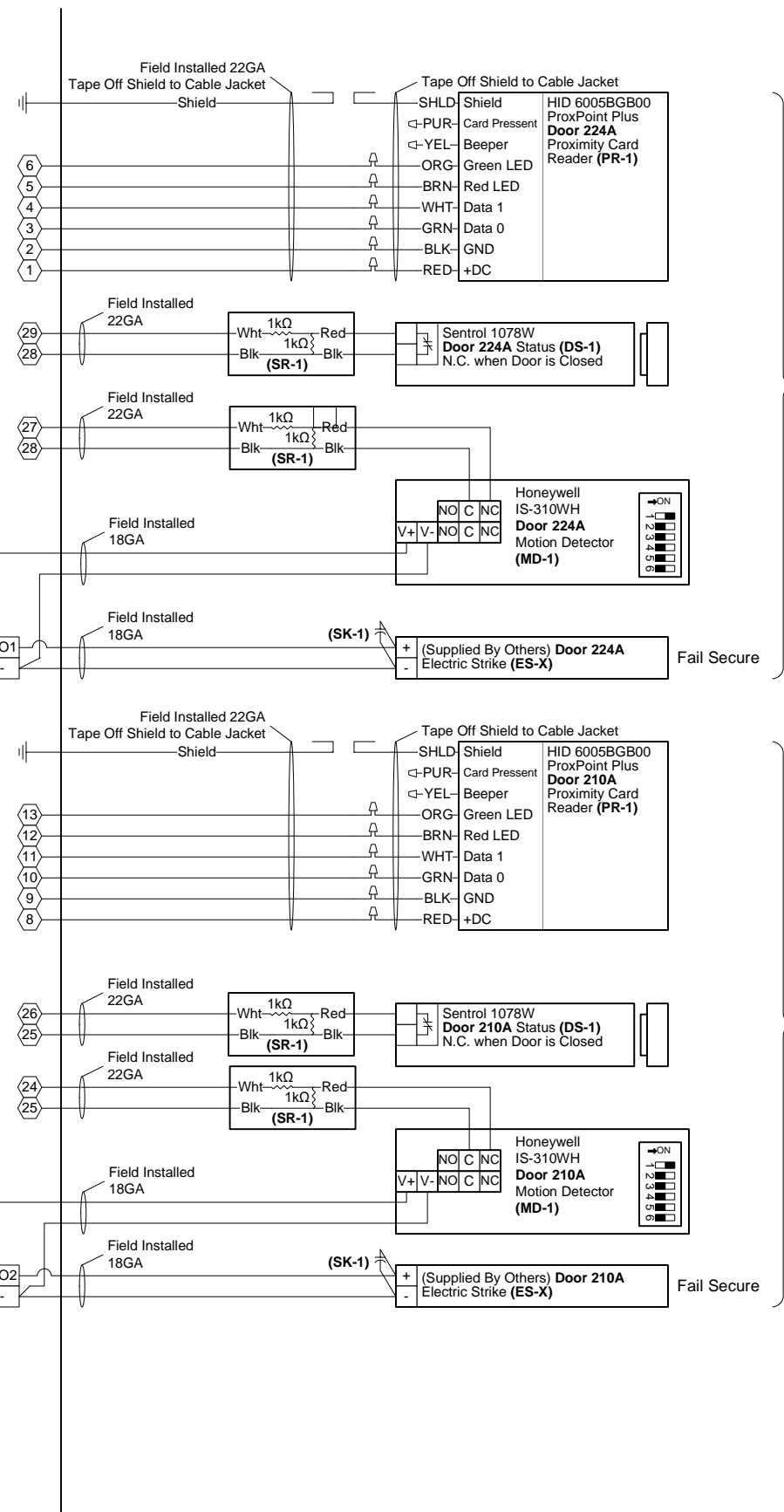
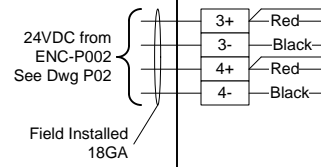
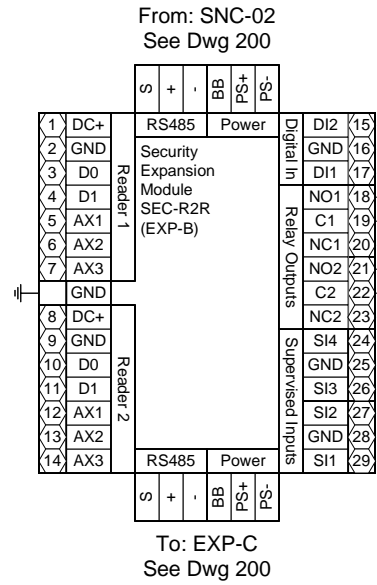
- 5 NOTE: For all user activated devices, mount @ 48" above floor, per the American Disabilities Act, NFPA & all applicable codes.
- 3 NOTE: Cap off all unused wires/connections on all devices.
- 6 NOTE: It is the responsibility of the installer to properly configure the jumpers and switches on all field mounted devices.

TITLE:	Dane County - Lyman F. Anderson A & C Center - Card Access System - DC PN 317039		
DESCRIPTION:	AENC-A002 – SNC-02 – Doors 234A, 218A – Termination Detail & BOM		
JOB #:	22181400010	DATE:	03/13/2018
DRAWN BY:	Steve Ferns	APPROVED BY:	Brett Shinkle
DWG PAGE #:	200a	SCALE:	NTS
FILENAME:	Dane Co - Fen Oak - 2018_06_15 - Access Dwg.vsd		



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ENC-A002 - SNC-02 EXP-B
Doors 224B, 210A



Door 224A

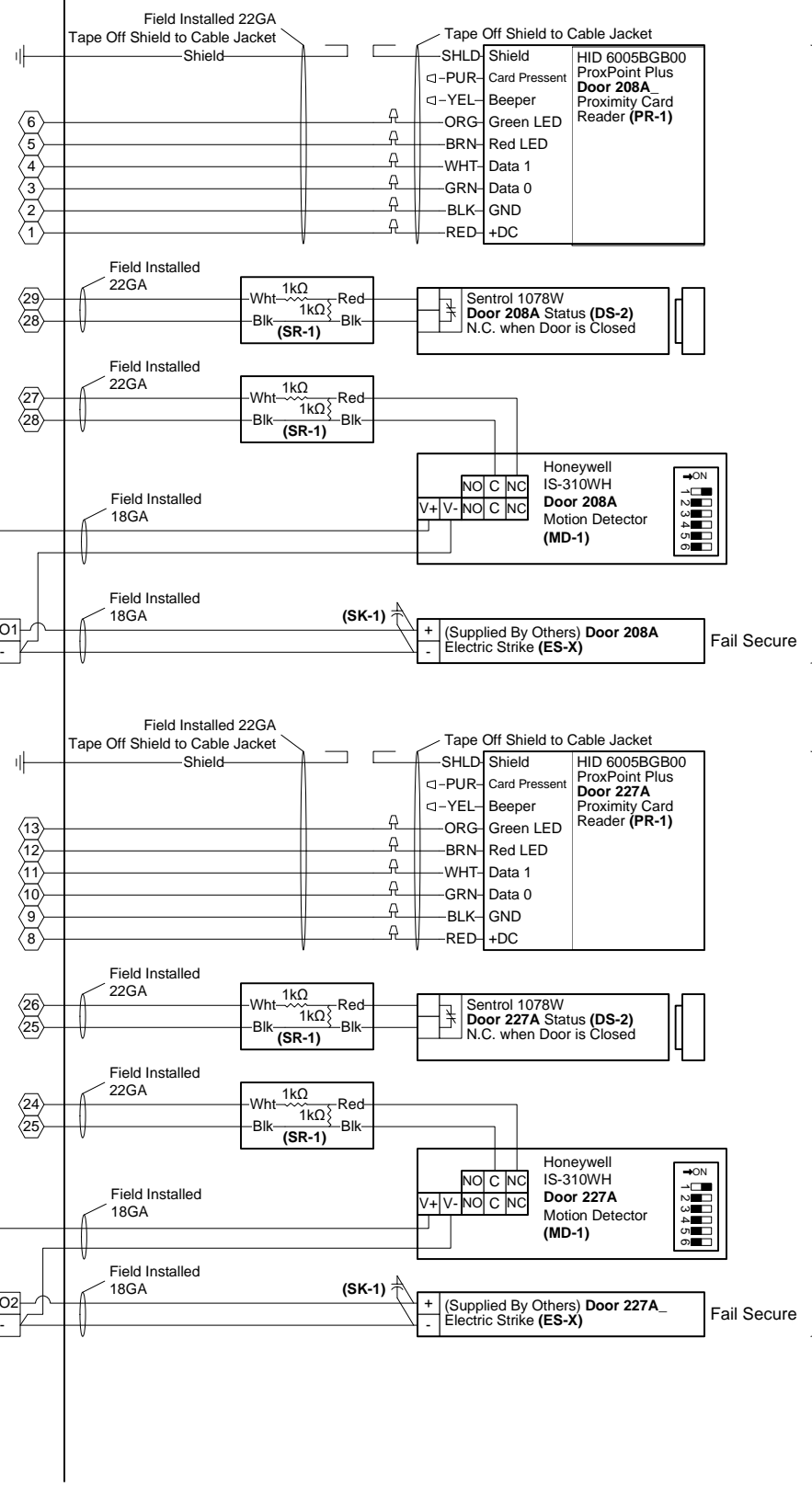
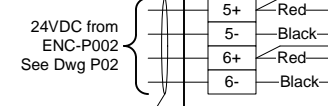
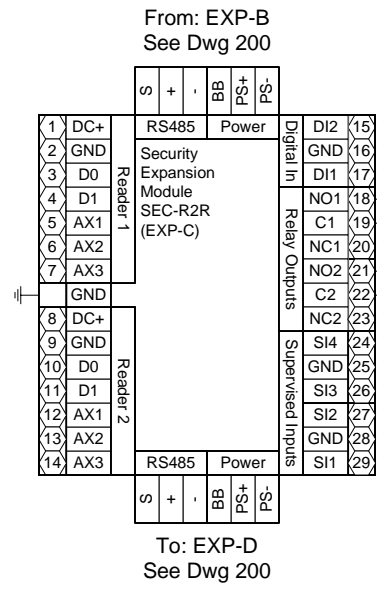
Door 210A

- 3 NOTE: Cap off all unused wires/connections on all devices.
- 5 NOTE: For all user activated devices, mount @ 48" above floor, per the American Disabilities Act, NFPA & all applicable codes.
- 6 NOTE: It is the responsibility of the installer to properly configure the jumpers and switches on all field mounted devices.

Field Devices - Bill of Material				
Tag	Qty.	Part #	Mfg.	Description
DS-1	2	1078W	Sentrol (By Others)	N.O. Recessed Door Status (1" Dia.)
ES-X	2	By Others	By Others	Electric Door Strike
MD-1	2	IS-310WH	Honeywell (By Others)	Request to Exit - Motion Detector
PR-1	2	6005BGB00	HID (By Others)	Proximity Card Reader
SK-1	2	S4	Northern Computer	S-4 Suppressor Kit
SR-1	4	10747	Tridium	4-Lead Supervisory Resistor Pack

TITLE: Dane County - Lyman F. Anderson A & C Center - Card Access System - DC PN 317039	
DESCRIPTION: ENC-A002 - SNC-02 EXP-B - Doors 224A, 210A - Termination Detail & BOM	
JOB #: 22181400010	DATE: 03/13/2018
DRAWN BY: Steve Ferns	APPROVED BY: Brett Shinkle
DWG PAGE #: 200B	FILENAME: Dane Co - Fen Oak - 2018_06_15 - Access Dwg.vsd
REV. 1	DATE 03/30/18
DESCRIPTION: Engr Comments, Release for Electrical Bid	BY

ENC-A002 - SNC-02 EXP-C
Doors 208A, 227A



Door 208A

Door 227A

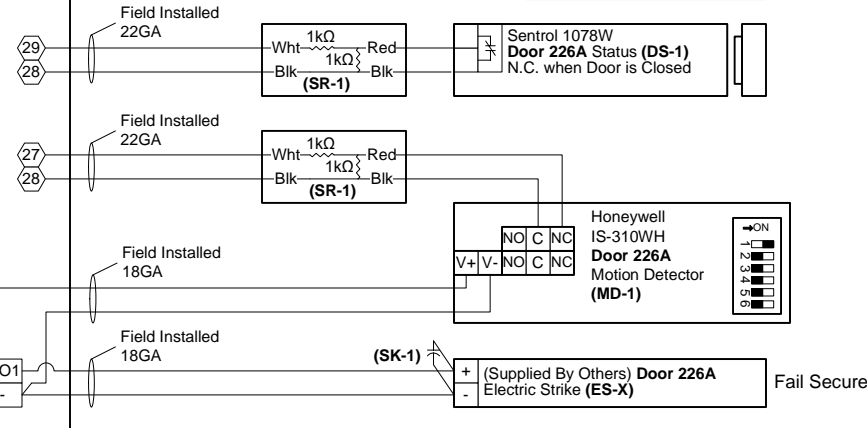
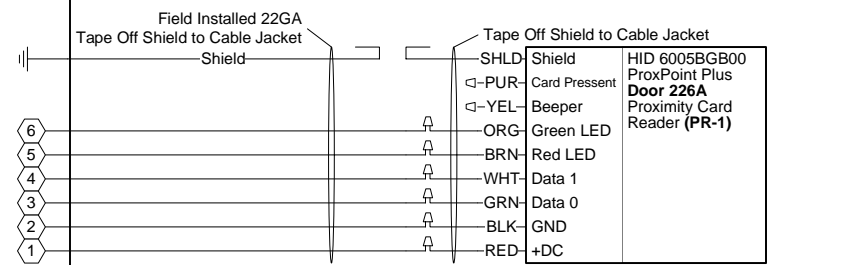
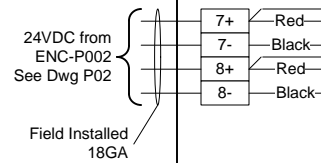
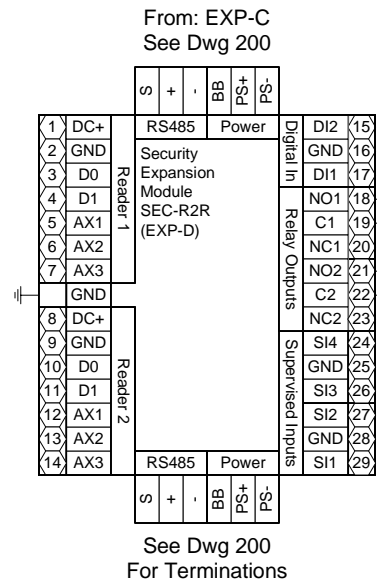
- 3 NOTE: Cap off all unused wires/connections on all devices.
- 5 NOTE: For all user activated devices, mount @ 48" above floor, per the American Disabilities Act, NFPA & all applicable codes.
- 6 NOTE: It is the responsibility of the installer to properly configure the jumpers and switches on all field mounted devices.

Field Devices - Bill of Material				
Tag	Qty.	Part #	Mfg.	Description
DS-1	2	1078W	Sentrol (By Others)	N.O. Recessed Door Status (1" Dia.)
ES-X	2	By Others	By Others	Electric Door Strike
MD-1	2	IS-310WH	Honeywell (By Others)	Request to Exit - Motion Detector
PR-1	2	6005BGB00	HID (By Others)	Proximity Card Reader
SK-1	2	S4	Northern Computer	S-4 Suppressor Kit
SR-1	4	10747	Tridium	4-Lead Supervisory Resistor Pack

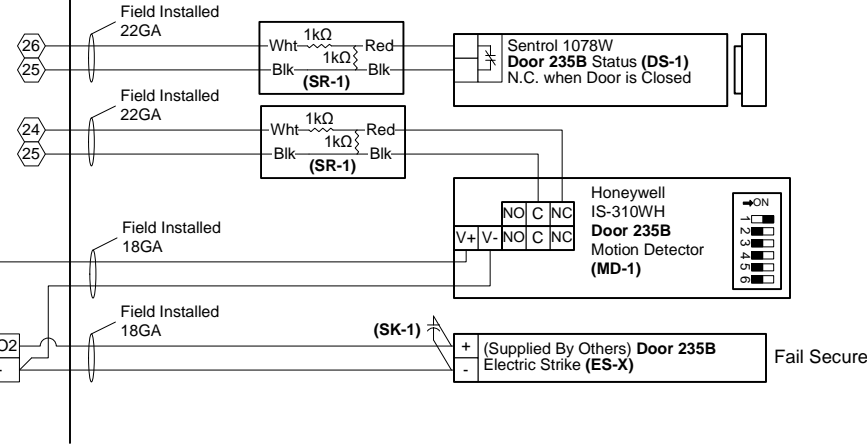
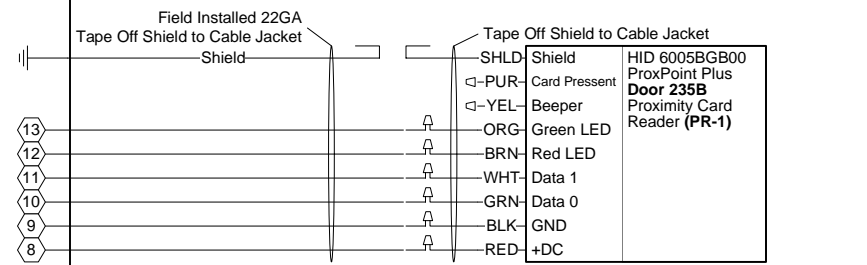
TITLE:	Dane County - Lyman F. Anderson A & C Center - Card Access System - DC PN 317039		
DESCRIPTION:	ENC-A002 - SNC-02 EXP-C - Doors 208A, 227A - Termination Detail & BOM		
JOB #:	22181400010	APPROVED BY:	Brett Shinkle
DATE:	03/13/2018	FILENAME:	Dane Co - Fen Oak - 2018_06_15 - Access Dwg.vsd
DRAWN BY:	Steve Ferns	SCALE:	NTS
DWG PAGE #:	200C	BY	
REV.		DATE	
1	03/30/18	SEF	
Engr Comments, Release for Electrical Bid			

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ENC-A002 - SNC-02 EXP-D
Doors 226A, 235B
(Door 235B is part of Alternate Bid 1)



Door 226A



Door 235B

- ⚠ NOTE: Cap off all unused wires/connections on all devices.
- ⚠ NOTE: For all user activated devices, mount @ 48" above floor, per the American Disabilities Act, NFPA & all applicable codes.
- ⚠ NOTE: It is the responsibility of the installer to properly configure the jumpers and switches on all field mounted devices.

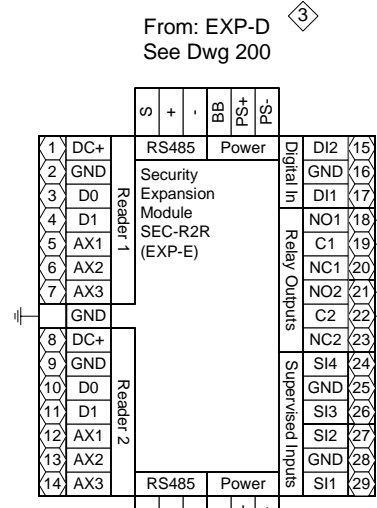
Field Devices - Bill of Material				
Tag	Qty.	Part #	Mfg.	Description
DS-1	2	1078W	Sentrol (By Others)	N.O. Recessed Door Status (1" Dia.)
ES-X	2	By Others	By Others	Electric Door Strike
MD-1	2	IS-310WH	Honeywell (By Others)	Request to Exit - Motion Detector
PR-1	2	6005BGB00	HID (By Others)	Proximity Card Reader
SK-1	2	S4	Northern Computer	S-4 Suppressor Kit
SR-1	4	10747	Tridium	4-Lead Supervisory Resistor Pack

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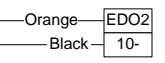
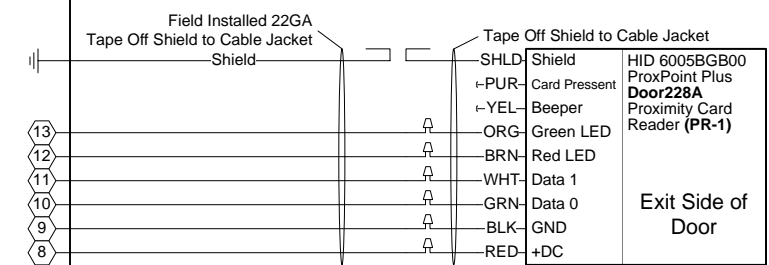
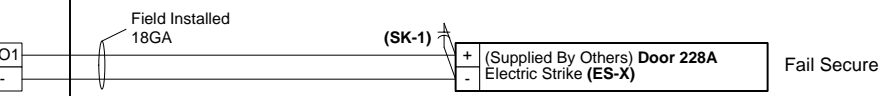
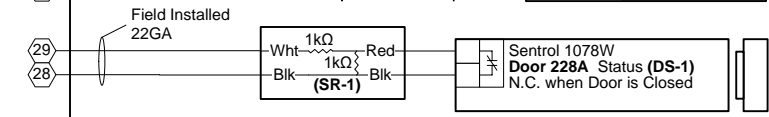
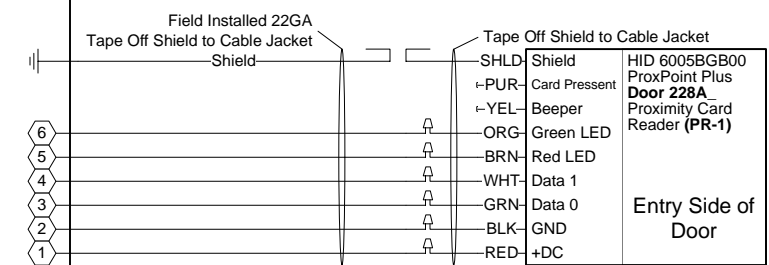
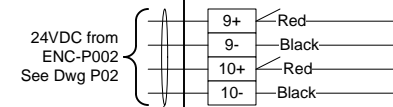
ENC-A002 - SNC-02 EXP-E

Door 228A

Door 228A is part of Alternate Bid 1



See Dwg 200 For Terminations



- NOTE: Cap off all unused wires/connections on all devices.
- NOTE: For all user activated devices, mount @ 48" above floor, per the American Disabilities Act, NFPA & all applicable codes.
- NOTE: It is the responsibility of the installer to properly configure the jumpers and switches on all field mounted devices.

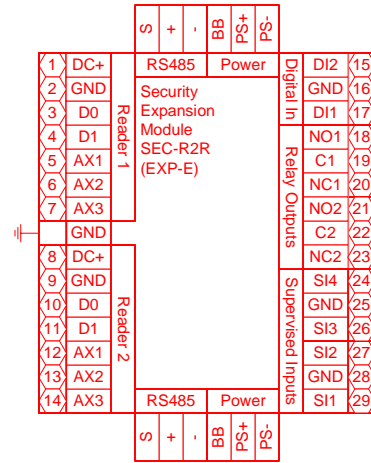
Field Devices - Bill of Material				
Tag	Qty.	Part #	Mfg.	Description
DS-1	1	1078W	Sentrol (By Others)	N.O. Recessed Door Status (1" Dia.)
ES-X	1	By Others	By Others	Electric Door Strike
PR-1	1	6005BGB00	HID (By Others)	Proximity Card Reader
SK-1	1	S4	Northern Computer	S-4 Suppressor Kit
SR-1	1	10747	Tridium	4-Lead Supervisory Resistor Pack

TITLE: Dane County - Lyman F. Anderson A & C Center - Card Access System - DC PN 317039	
DESCRIPTION: ENC-A002 - SNC-02 EXP-E - Doors 228A - Termination Detail & BOM	
JOB #: 22181400010	DATE: 03/13/2018
DRAWN BY: Steve Ferns	APPROVED BY: Brett Shinkle
DWG PAGE #: 200e	FILENAME: Dane Co - Fen Oak - 2018_06_15 - Access Dwg.vsd
SCALE: NTS	DATE: 03/30/18
BY: 200e	DATE: 07/03/18
DESCRIPTION	DATE: 05/02/18
DESCRIPTION	DATE: 03/30/18
DESCRIPTION	DATE: 03/30/18

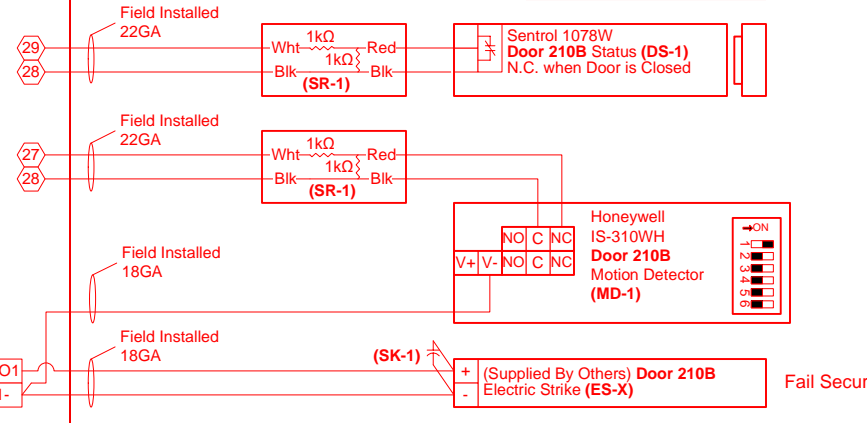
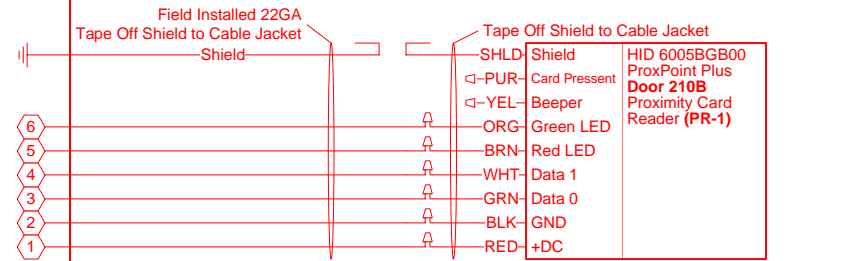
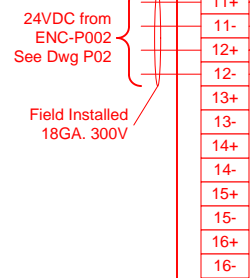
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ENC-A002 - SNC-02 EXP-F
Door 210B & 224A ⑥
 Door 210B & 224A are part of Alternate Bid 2

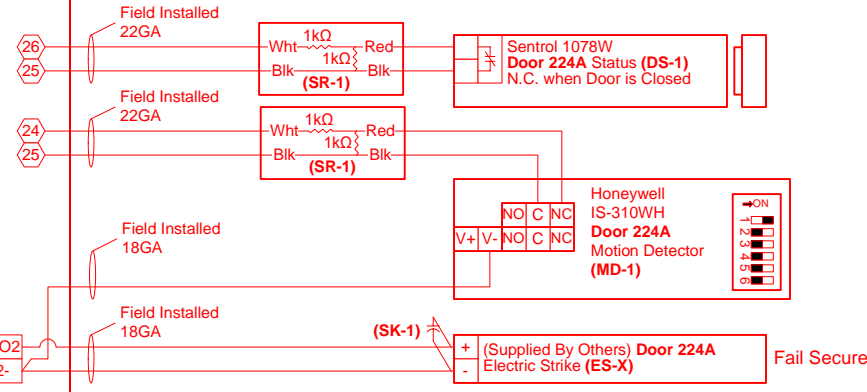
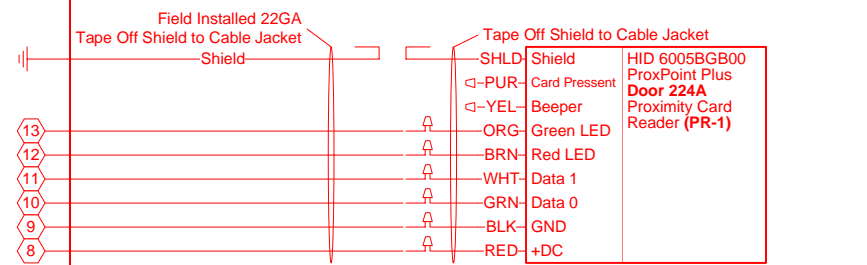
From: EXP-E
See Dwg 200



See Dwg 200



Door 210B



Door 224A

- ③ NOTE: Cap off all unused wires/connections on all devices.
- ⑤ NOTE: For all user activated devices, mount @ 48" above floor, per the American Disabilities Act, NFPA & all applicable codes.
- ⑥ NOTE: It is the responsibility of the installer to properly configure the jumpers and switches on all field mounted devices.

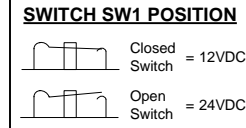
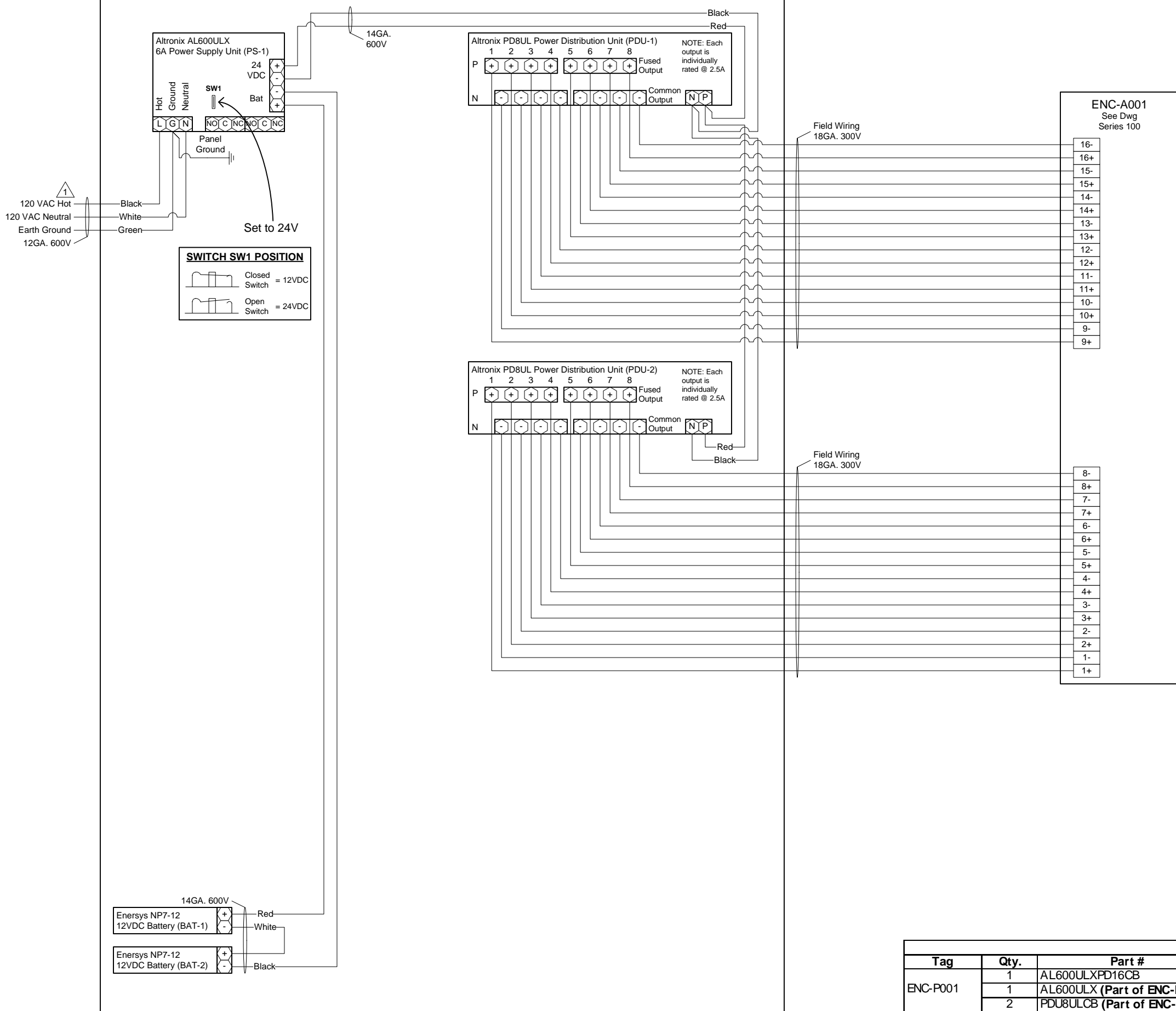
Field Devices - Bill of Material				
Tag	Qty.	Part #	Mfg.	Description
DS-1	2	1078W	Sentrol (By Others)	N.O. Recessed Door Status (1" Dia.)
ES-X	2	By Others	By Others	Electric Door Strike
PR-1	2	6005BGB00	HID (By Others)	Proximity Card Reader
SK-1	2	S4	Northern Computer	S-4 Suppressor Kit
SR-1	4	10747	Tridium	4-Lead Supervisory Resistor Pack

TITLE: Dane County - Lyman F. Anderson A & C Center - Card Access System - DC PN 317039	
DESCRIPTION: ENC-A002 - SNC-02 EXP-F - Doors 221B, 224A - Termination Detail & BOM	
JOB #: 22181400010	DATE: 03/13/2018
DRAWN BY: Steve Ferns	APPROVED BY: Brett Shinkle
DWG PAGE #: 200F	FILENAME: Dane Co - Fen Oak - 2018_06_15 - Access Dwg.vsd
SCALE: NTS	DATE: 03/30/18
BY: SEF	DATE: 07/03/18
BY: SEF	DATE: 05/02/18
BY: SEF	DATE: 03/30/18
REV.	DESCRIPTION

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ENC-P001 – Power Distribution Panel

Located: First Floor, Room 148. (See Client Engineer for Exact Location)



NOTE: Installer to Provide Main Disconnect and Branch Circuit Protection. 120 VAC to be supplied from a dedicated 20 Amp Branch Circuit, with separate Hot, Neutral and Green Equipment Grounding Conductor. Terminate Equipment Grounding Conductor at Branch Circuit Distribution Panel, to Panel Enclosure or Grounding Conductor by Approved Means.

Bill of Material				
Tag	Qty.	Part #	Mfg.	Description
ENC-P001	1	AL600ULXPD16CB	Altronix	Expandable Access/Fire Power Panel
	1	AL600ULX (Part of ENC-P001)	Altronix	120VAC/12/24VDC 6A Power Supply (PS-1)
BAT-1,2	2	PDU8ULCB (Part of ENC-P001)	Altronix	24VAC/DC/12VDC @ 2.5A Power Distributor (PDU-1,2)
	2	NP7-12	Enersys	7AmpHr 12VDC Battery

TITLE:	Dane County - Lyman F. Anderson A & C Center - Card Access System - DC PN 317039
DESCRIPTION:	ENC-P001 - Access Control Power Distribution Panel - Termination Detail & BOM
JOB #:	22181400010
DATE:	03/13/2018
APPROVED BY:	Brett Shinkle
FILENAME:	Dane Co - Fen Oak - 2018_06_15 - Access Dwg.vsd
SCALE:	NTS
DWG PAGE #:	P01
DATE	BY
03/30/18	SEF
DESCRIPTION	Engr Comments, Release for Electrical Bid
REV.	1

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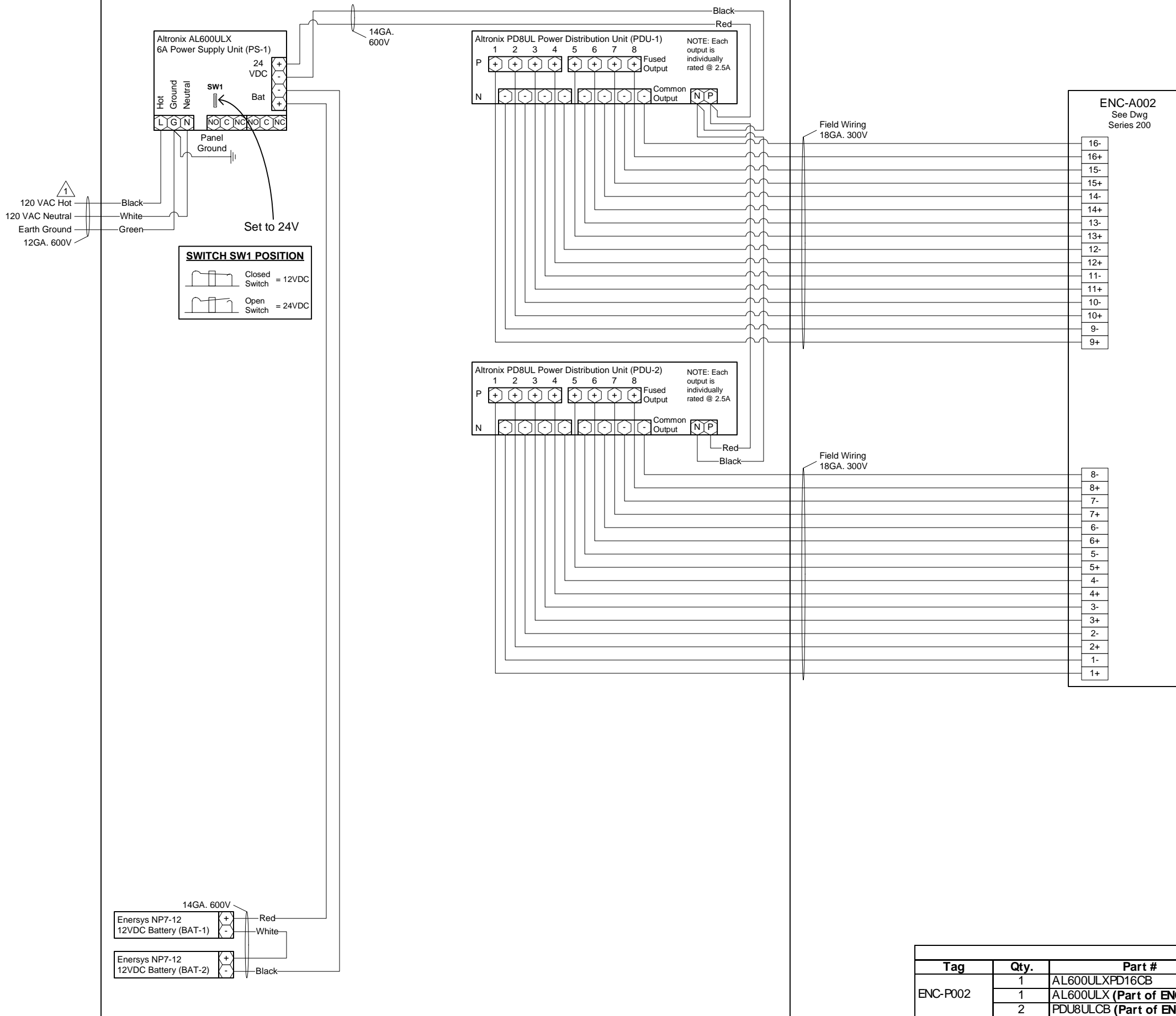
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ENC-P002 – Power Distribution Panel

Located: Second Floor, Room 239. (See Owner Engineer for Exact Location)



NOTE: Installer to Provide Main Disconnect and Branch Circuit Protection. 120 VAC to be supplied from a dedicated 20 Amp Branch Circuit, with separate Hot, Neutral and Green Equipment Grounding Conductor. Terminate Equipment Grounding Conductor at Branch Circuit Distribution Panel, to Panel Enclosure or Grounding Conductor by Approved Means.

Bill of Material				
Tag	Qty.	Part #	Mfg.	Description
ENC-P002	1	AL600ULXPD16CB	Altronix	Expandable Access/Fire Power Panel
	1	AL600ULX (Part of ENC-P002)	Altronix	120VAC/12/24VDC 6A Power Supply (PS-1)
BAT-1,2	2	PDU8ULCB (Part of ENC-P002)	Altronix	24VAC/DC/12VDC @ 2.5A Power Distributor (PDU-1,2)
	2	NP7-12	Energys	7AmpHr 12VDC Battery

TITLE:	Dane County - Lyman F. Anderson A & C Center - Card Access System - DC PN 317039
DESCRIPTION:	ENC-P002 - Access Control Power Distribution Panel - Termination Detail & BOM
JOB #:	22181400010
DATE:	03/13/2018
APPROVED BY:	Brett Shinkle
FILENAME:	Dane Co - Fen Oak - 2018_06_15 - Access Dwg.vsd
SCALE:	NTS
DWG PAGE #:	P02
BY:	SEF
DATE:	03/30/18
DESCRIPTION:	Engr Comments, Release for Electrical Bid
REV.	1

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ACCESS CONTROL DOOR SCHEDULE																	
Door Number	Door Name	Entering From:	Door Config.	Use (Exterior/Interior)	Fail Mode (Safe/Secure)	Strike (Elec / Mag Lock)	RDR New	RDR Demo	DPS New	RTE New	STK New	Emergency Pull Station PS	HDCP	Misc. Auxiliary Controls:	NC, Trunk & Controller Address		Power Panel #:
															SNC:	Module	
ENC-A001 (First Floor)																	
101A	Front Door West	Outside	Double	Exterior	Secured	Electric Strike	-	-	X	-	-	-	-	Outside front double doors lock on timer control; Demo mag lock & repair holes ^① finish; add rim strike. (Work by others)	ENC-A001	SNC-01	ENC-P001
101B	Front Door East	Outside	Double	Exterior	Secured	Electric Strike	X	X	X	X	-	-	X	Outside front double doors lock on timer control; Install one RTE to serve both doors; Three handicap switches (Interior, Vestibule, Exterior) are existing and shall remain; Verify there are two sets of contacts in each switch, if there are not two sets of contacts, to be provided by owner; Run wire (2-conductor, 18 gauge) from interior handicap switch to 1st floor control panel. (Work by Others)	ENC-A001	SNC-01	ENC-P001
112A	Back Door	Vestibule 112	Single	Exterior	Secured	Electric Strike	X	X	X	X	X	-	-		ENC-A001	EXP-B	ENC-P001
114A	1st Floor Storage	Corridor 122	Single	Interior	Secured	Electric Strike	X	-	X	X	X	-	-		ENC-A001	EXP-B	ENC-P001
119A	UWEX Rear	Corridor 122	Single	Interior	Secured	Electric Strike	X	-	X	X	X	-	-		ENC-A001	EXP-C	ENC-P001
121B	Room 121 West	Corridor 122	Single	Interior	Secured	Electric Strike	X	-	X	X	X	-	-	Alternate Bid No.1 ^⑥	ENC-A001	EXP-C	ENC-P001
121C	Room 121 East	Corridor 122	Single	Interior	Secured	Electric Strike	X	-	X	X	X	-	-		ENC-A001	EXP-D	ENC-P001
138A	UWEX Main	Corridor 102	Single	Interior	Secured	Electric Strike	X	-	X	X	X	-	-		ENC-A001	EXP-D	ENC-P001
140A	Conference Room C	Corridor 142	Single	Interior	Secured	Electric Strike	X	-	X	X	X	-	-		ENC-A001	EXP-E	ENC-P001
145A	Class Room A	Corridor 142	Single	Interior	Secured	Electric Strike	X	-	X	X	X	-	-		ENC-A001	EXP-E	ENC-P001
146B	Class Room B	Corridor 142	Single	Interior	Secured	Electric Strike	X	-	X	X	X	-	-		ENC-A001	EXP-F	ENC-P001
144A	Kitchen	Corridor 142	Single	Interior	Secured	Electric Strike	X	-	X	X	X	-	-		ENC-A001	EXP-F	ENC-P001
116A	First Floor Stair Entry	Corridor 111	Single	Interior	Secured	Electric Strike	X	-	X	X	X	-	-		ENC-A001	EXP-G	ENC-P002
ENC-A002 (Second Floor)																	
208A	LWRD Main	Lobby 201	Single	Interior	Secured	Electric Strike	X	-	X	X	X	-	-		ENC-A002	SNC-02	ENC-P002
210A	Monona Conference Room	Corridor 219	Single	Interior	Secured	Electric Strike	X	-	X	X	X	-	-		ENC-A002	SNC-02	ENC-P002
210B	Monona Conference Room	Room 210	Single	Interior	Secured	Electric Strike	X	-	X	X	X	-	-	Alternate Bid No. 2 ^① ^⑤ ^⑥	ENC-A002	EXP-B	ENC-P002
218A	LWRD Fire Door	Corridor 219	Single	Interior	Unsecured	Existing Mag Lock	X	-	X	X	-	X	-		ENC-A002	EXP-B	ENC-P002
224B	Mendota Conference Room	Room 224	Single	Interior	Secured	Electric Strike	X	-	X	X	X	-	-	Alternate Bid No.2 ^⑥	ENC-A002	EXP-C	ENC-P002
224B	Mendota Conference Room	Corridor 219	Single	Interior	Secured	Electric Strike	X	-	X	X	X	-	-		ENC-A002	EXP-C	ENC-P002
226A	Kegonsa Conference Room	Lobby 201	Single	Interior	Secured	Electric Strike	X	-	X	X	X	-	-		ENC-A002	EXP-C	ENC-P002
227A	LWRD North	Lobby 201	Single	Interior	Secured	Electric Strike	X	-	X	X	X	-	-		ENC-A002	EXP-D	ENC-P002
228A	FSA West	Coffee Rm 231 & Open Office 228	Single	Interior	Secured	Electric Strike	X (2)	-	X	-	X	-	-	Access Required in both directions. Alternate Bid No.1 ^⑥	ENC-A002	EXP-D	ENC-P002
234A	FSA Main	FSA Entry Room 234	Single	Interior	Secured	Electric Strike	X	-	X	X	X	-	-		ENC-A002	EXP-E	ENC-P002
235B	FSA Conference Room	FSA Entry Room 234	Single	Interior	Secured	Electric Strike	X	-	X	X	X	-	-	Alternate Bid No.1 ^⑥	ENC-A002	EXP-F	ENC-P001

KEY for S01 - Access Control Schedule			
⑤	Number =	Location as detailed on floor plans	DPS New = Provide new door position switch
	RDR New =	Provide new card reader	RTE New = Provide new request to exit device
	RDR Demo =	Demo existing card reader	STK New = Provide new electric door strike
⑤	PS =	Emergency Pull Station	HDCP = Interface with existing handicap buttons and door openers

TITLE: Dane County - Lyman F. Anderson A & C Center - Card Access System - DC PN 317039

DESCRIPTION: Access Control Door Schedule

DATE: 03/13/2018

APPROVED BY: Brett Shinkle

SCALE: NTS

FILENAME: Dane Co - Fen Oak - 2018_06_15 - Access Dwg.vsd

Project # 22181400010 - Addendum No. 2

Project # 22181400010 - Addendum No. 1

Modified A Door Acc Equip Loc, Rel to Bid

Engr Comments, Rel. for Electrical Bid

07/03/18

06/14/18

05/02/18

03/30/18

SEF

SEF

SEF

SEF

DATE

DATE

DATE

DATE

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REV.

①

②

③

④

⑤

⑥

DESCRIPTION

BY



Work By Owner

Door Number	Door Name	Work by Owner	Bid Type
101A	Front Door West	No work	
101B	Front Door East	No work	
112A	Back Door	No work	
114A	1st Floor Storage	No work	
116A	1st Floor Stairway Access	No work	
119A	UWEX Rear	Furnish & install new lever handle	
121B	Room 121 West	Furnish & install closer	Alt Bid 1
121C	Room 121 East	Furnish & install closer, demo electronic key pad	
138A	UWEX Main	Furnish & install new lever handle	
140A	Conference Room C	Furnish & install closer	
145A	Class Room A	Furnish & install closer	
146B	Class Room B	Furnish & install closer	
144A	Kitchen	Furnish & install closer	
208A	LWRD Main	Furnish & install new lever handle	
210A	Monona Conference Room	Furnish & install closer	
210B	Monona Conference Room	Furnish & install closer	Alt Bid 2
218A	LWRD Fire Door	Need to get Madison Fire Inspector's direction & approval before determining how egress door is controlled & alarmed	
224A	Mendota Conference Room	Furnish & install closer	Alt Bid 2
224B	Mendota Conference Room	Furnish & install closer	
226A	Kegonsa Conference Room	Furnish & install closer	
227A	LWRD North	Furnish & install new lever handle	
228A	FSA West	Furnish & install new lever handle & lever latch? Lance to determine need	Alt Bid 1
234A	FSA Main	Furnish & install new lever handle	
235B	FSA Conference Room	Furnish & install new lever handle	Alt Bid 1

TITLE: Dane County - Lyman F. Anderson A & C Center - Card Access System - DC PN 317039 DESCRIPTION: Work by Owner	
JOB #: 22181400010 DRAWN BY: Steve Ferns SCALE: NTS	DATE: 03/13/2018 APPROVED BY: Brett Shinkle FILENAME: Dane Co - Fen Oak - 2018_06_15 - Access Dwg.vsd
Project # 22181400010 - Addendum No. 2 Project # 22181400010 - Addendum No. 1 Modified A Door Acc Equip Loc, Rel to Bid Owner Provided Info, Release for Elect. Bid	07/03/18 06/14/18 05/02/18 04/25/18
REV. 6 5 3 2	SEF SEF SEF SEF BY
DESCRIPTION DESCRIPTION	DATE DATE