

**Ballou  
Justice  
Upton  
Associates**

**August 2, 2019**

**ADDENDUM NO. 2**

**TO THE SPECIFICATIONS AND DRAWINGS  
FOR CONSTRUCTION OF**

**High School / Middle School Complex  
MECKLENBURG COUNTY, VIRGINIA**

**S.D.E. Project #: 058-104-01-100**

This addendum shall be added to and become a part of the Contract Documents, dated July 12, 2019 for the project. Bidders shall acknowledge receipt of this addendum on the proposal form and include its provisions in their proposals. Failure to do so may disqualify the bidder.

**PRE-BID MEETING:**

Included with this addendum is a copy of the Pre-Bid Meeting Attendance sheets.

**OWNER DIRECT PURCHASE:**

Included with this addendum are the instructions/requirements for Owner Direct Purchase of construction materials.

**CHANGES TO THE SPECIFICATONS:**

**TABLE OF CONTENTS:**

VOLUME 1, DIVISION 0 – BIDDING REQUIREMENTS, INVITATION FOR BIDS,

The date for receipt of bids has been changed from August 15, 2019 to **September 17, 2019** at 2:00 p.m.

**TABLE OF CONTENTS:**

VOLUME 1, DIVISION 0 – BIDDING REQUIREMENTS, INSTRUCTIONS TO BIDDERS, 9. Addenda, add the following in its entirety as a new paragraph;

Addenda will be issued no later than (4) four days prior to the date for receipt of Bids except an Addendum withdrawing the request for Bids or one which include postponement of the date for receipt of Bids.

**TABLE OF CONTENTS:**

VOLUME 1, DIVISION 0 – BIDDING REQUIREMENTS, SPECIAL CONDITIONS, Include the following in its entirety as a new paragraph;

7. BRONZE LOBBY PLAQUES

See specification Section 101416 – PLAQUES and attached sketches which indicate the lobby plaques for the Middle School and the High School.

8. PROJECT SITE SIGN

See attached sketches which indicate the project site construction sign.

**SECTION 087100 DOOR HARDWARE:**

ADD this section in its entirety which is included with this addendum.

**END OF ADDENDUM NO. 2**



**Ballou Justice Upton**  
Architects

## PRE-BID MEETING ATTENDANCE

Project: **MCPS HS/MS COMPLEX**

Date: July 31, 2019

Time: 2:00 p.m.

Project #: 18003.00

Company: CPPI

Contact: Matthew Gabel

Address: 110 Duncraig Dr Unit B

City: Lynchburg State: VA Zip: 24502

Telephone: 434-484-0486 Fax: \_\_\_\_\_

E-mail: math.gabel@CPPI.com

Company: CPPI

Contact: David Ahrens

Address: 110 Duncraig Drive Unit B

City: Lynchburg State: VA Zip: 24502

Telephone: 540-242-1580 Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

Company: \_\_\_\_\_

Contact: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_



## PRE-BID MEETING ATTENDANCE

Project: **MCPS HS/MS COMPLEX**

Date: July 31, 2019

Time: 2:00 p.m.

Project #: 18003.00

Company: ENGLISH CONST.

Contact: ROBERT LEE

Address: P.O. Box P 7000

City: Lynchburg State: VA Zip: 24505

Telephone: 434-845-0301 Fax: 434-845-0306

E-mail: rlee@englishconst.com

Company: MAYEL Electric Supply

Contact: MIKE HEMSWORTH

Address: 1505 Sherwood Ave

City: Richmond State: VA Zip: 23230

Telephone: 804 640 2483 Fax: \_\_\_\_\_

E-mail: mhemsworth@mayelelectric.com

Company: HURT & PROFFITT INC

Contact: PATRICK PROFFITT

Address: 2524 LANGHORNE RD

City: LYNCHBURG State: VA Zip: 24501

Telephone: 435-546-6159 Fax: \_\_\_\_\_

E-mail: pproffitt@hondp.com



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## PRE-BID MEETING ATTENDANCE

Project: **MCPS HS/MS COMPLEX**

Date: July 31, 2019

Time: 2:00 p.m.

Project #: 18003.00

Company: Skanska USA Building Owner Rep.

Contact: Tim Burge

Address: \_\_\_\_\_

City: Durham State: NC Zip: \_\_\_\_\_

Telephone: 540-819-5787 Fax: \_\_\_\_\_

E-mail: tim.burge@skanska.com

Company: Branch Builds

Contact: Tony C. Brown

Address: 5732 Airport Road, NW

City: Roanoke State: VA Zip: 24012

Telephone: 540-989-5215 Fax: 540-774-2611

E-mail: tonyb@branchbuilds.com

Company: \_\_\_\_\_

Contact: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_



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## PRE-BID MEETING ATTENDANCE

Project: **MCPS HS/MS COMPLEX**

Date: July 31, 2019

Time: 2:00 p.m.

Project #: 18003.00

Company: TRI-CITY COMMUNICATIONS

Contact: BOB BRIGGS

Address: 3200 DAM NECK RD -SUITE 106

City: VIRGINIA BEACH State: VA Zip: 23453

Telephone: 757-468-4002 Fax: 757-468-4002

E-mail: bbb@TricityCom.Com

Company: \_\_\_\_\_

Contact: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

Company: \_\_\_\_\_

Contact: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_



## PRE-BID MEETING ATTENDANCE

Project: **MCPS HS/MS COMPLEX**

Date: July 31, 2019

Time: 2:00 p.m.

Project #: 18003.00

Company: FELTON BROTHERS TRANSIT MIX, INC.

Contact: HILL FELTON

Address: P.O. Box 463

City: South Boston State: VA Zip: 24592

Telephone: 434-572-2665 Fax: 434-572-1987

E-mail: FELTONBR@EMBARQMAIL.COM

Company: Felton Brothers Transit Mix, Inc

Contact: Mehlon Felton

Address: P.O. Box 463

City: South Boston State: VA Zip: 24592

Telephone: 434 470-9328 Fax: \_\_\_\_\_

E-mail: feltonbrothers@outlook.com

Company: Felton Bros Transit Mix, Inc

Contact: Steve Ashworth

Address: P.O. 223

City: South H, 71 State: VA Zip: 23970

Telephone: 434-470-6543 Fax: 434-470-6543

E-mail: S9shworth51@gmail.com



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## PRE-BID MEETING ATTENDANCE

Project: **MCPS HS/MS COMPLEX**

Date: July 31, 2019

Time: 2:00 p.m.

Project #: 18003.00

Company: Glover Construction Co. Inc.

Contact: Keith Bryant

Address: 4493 (PO Box 40) Pleasant Hill

City: Pleasant Hill State: NC Zip: 27866

Telephone: 252-536-2660 Fax: \_\_\_\_\_

E-mail: Kbryant@gloverconstruction.com

Company: The Landtek Group -

Contact: Kevin Conner

Address: 235 County Line Road

City: Amityville State: NY Zip: 11701

Telephone: 540-641-1203 Fax: 631-598-8280

E-mail: Kconner@landtekgroup.com

Company: Biggs Const. Co.

Contact: Kyle Richards

Address: 341 Caterpillar Dr

City: LaCrosse State: VA Zip: 23750

Telephone: 434-774-2900 Fax: 434-774-2911

E-mail: Krichards@biggscci.com





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## PRE-BID MEETING ATTENDANCE

Project: **MCPS HS/MS COMPLEX**

Date: July 31, 2019

Time: 2:00 p.m.

Project #: 18003.00

Company: Cummins Inc.

Contact: Allen Dougherty.

Address: Hollard Blvd

City: Chesapeake State: VA. Zip: \_\_\_\_\_

Telephone: 757-508-4889 Fax: \_\_\_\_\_

E-mail: james.dougherty@cummins.com

Company: Hurt & Proffitt

Contact: Matthew Gross

Address: 1861 Pratt Drive, Suite 1100

City: Christiansburg State: VA Zip: 24073

Telephone: 540-552-5592 Fax: 540-552-5729

E-mail: mgross@handp.com

Company: Hurt & Proffitt

Contact: Ken Meritt

Address: 2524 Langhorne Rd

City: Lynchburg State: VA Zip: 24501

Telephone: 434-847-7796 Fax: \_\_\_\_\_

E-mail: Kmeritt@handp.com



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## PRE-BID MEETING ATTENDANCE

Project: **MCPS HS/MS COMPLEX**

Date: July 31, 2019

Time: 2:00 p.m.

Project #: 18003.00

Company: SKANSKA

Contact: VINCENT MARESCA

Address: \_\_\_\_\_

City: ROANOKE State: VA Zip: 24015

Telephone: 832-655-8138 Fax: \_\_\_\_\_

E-mail: Vincent.maresca@skanska.com

Company: \_\_\_\_\_

Contact: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

Company: \_\_\_\_\_

Contact: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

## **Mecklenburg County Public Schools – Combined High School/Middle School Owner Direct Purchase Process**

Mecklenburg County Public Schools ("Owner") would like to realize savings by directly purchasing certain materials that would be installed by the General Contractor ("Contractor") or its Subcontractors. A preliminary list of material items being considered is listed below; however, this list will be finalized after award of the construction contract and through discussions with the successful Contractor.

The Contractor and its Subcontractors agree to participate in the owner direct purchase program. Owner will submit to the Contractor and Subcontractor a list of materials to be purchased by the Owner. Subcontractor is responsible for providing an accurate estimate, establishing quantities and any other information necessary in a timely manner so that the Owner can properly execute a direct purchase order. Subcontractor will submit this information using a requisition worksheet (example attached) as well as backup documentation on the vendor's letterhead.

All direct purchase orders issued by the Owner are for materials only. Contractor is responsible to see that all materials purchased using owner direct purchase orders are properly shipped and handled. Contractor shall be responsible for both the quantity and quality of the owner direct purchase material items from the time they are delivered to the jobsite through installation and turnover to the Owner. Contractor is to provide copies of all shipping/delivery tickets to Owner. Owner will not be held responsible for any additional delivery charges, increases in material quantity, or price increases of any kind above and beyond the scope of the original direct purchase order.

Issuance of a direct purchase order by the Owner does not constitute approval of the material by the Architect/Engineer ("A/E"). The contractor remains responsible for obtaining approval of submittals, providing warranties, operation and maintenance manuals, and other documentation per the construction contract documents.

The construction contract documents, as well as any terms and conditions included in the Owner's direct purchase order form, supersede any and all terms and conditions that may or may not be submitted by the vendor. Any terms or conditions in conflict with the contract documents or direct purchase order form are not accepted by Owner.

### **Preliminary list of materials being considered:**

- Concrete
- Brick
- CMU
- Structural Steel and Misc. Metals
- Glass, Glazing, and Storefront
- Doors and Frames
- Flooring and Base
- Acoustical Ceiling Tile and Grid
- Gypsum Board
- Casework
- Athletic Equipment
- Major HVAC Equipment
- Major Electrical Equipment
- Major Plumbing Fixtures

**Background:**

The Virginia Administrative Code 10-210-410J states that, "contractors are not subject to the use tax when provided with tangible personal property purchased by a governmental entity for use in real property construction contracts." Any tangible personal property purchased by Owner and given to the Contractor or its Subcontractors for the sole use and consumption on the Mecklenburg County Combined High School/Middle School will be exempt from sales or use tax. Mecklenburg County Public Schools will give vendors a properly completed Form ST-12 (example attached). Any purchases made by the General Contractor or its Subcontractors for use and consumption by them are subject to sales tax.

**Process:**

The following outlines the procedure Mecklenburg County Public Schools will use for the purchase of tax-exempt construction materials and equipment:

1. Subcontractor/Vendor will submit its purchase order information to Contractor with a W-9. Such information will exclude sales and use tax, but note the amount of sales and use tax being excluded.
2. The Contractor will endorse the order and forward the information to the Owner's representative. The Owner's representative will review for clarity and recommend approval or request more information from Contractor.
3. The Owner will issue a Purchase Order (PO) to the vendor and send a copy to the Contractor. The Contractor will also forward a copy of the PO to the subcontractor for their record.
4. Invoices will be addressed to the Owner but sent to the Subcontractor. Invoices will exclude sales and use tax. When the vendor invoices come in for payment, the Subcontractor will send the invoices to the Contractor to verify the price and that the material was delivered. Once verified, the Contractor will attach the material delivery tickets to the invoice, initial and date the invoice and send it to the Owner's representative for processing. The Owner's representative verifies the material was delivered, initials and dates the invoice and forwards to the Owner for payment.
5. The Contractor will reconcile with their Subcontractors and the Owner periodically to capture direct purchase orders issued. The following reconciliation process is recommended:
  - a. The Contractor reviews information with the Owner to ensure accuracy.
  - b. The Contractor issues change orders to reconcile with their Subcontractors.
  - c. The Contractor reconciles with the Owner.



Form ST-12

COMMONWEALTH OF VIRGINIA  
SALES AND USE TAX CERTIFICATE OF EXEMPTION

For use by the Commonwealth of Virginia, a political subdivision  
of the Commonwealth of Virginia, or the United States

To: \_\_\_\_\_ Date: \_\_\_\_\_  
Name of Dealer  
\_\_\_\_\_  
Number and Street or Rural Route City, Town, or Post Office State ZIP Code

The Virginia Retail Sales and Use Tax Act provides that the Virginia sales and use tax shall not apply to tangible personal property for use or consumption by this State, any political subdivision of this State, or the United States. This exemption does not apply to sales or leases to privately owned financial and other privately owned corporations chartered by the United States.

The undersigned, for and on behalf of the governmental agency named below, hereby certifies that all tangible personal property purchased or leased from the above dealer on and after this date will be for use or consumption by a governmental agency, that each such purchase or lease will be supported by the required official purchase order, and that such tangible personal property will be paid for out of public funds. Check the appropriate box below.

- 1. Tangible personal property for use or consumption by the Commonwealth of Virginia, including prepared meals, catering, and other services related to the provision of food.
- 2. Tangible personal property for use or consumption by a political subdivision of the Commonwealth of Virginia, including prepared meals, catering, and other services related to the provision of food.
- 3. Tangible personal property and taxable services for use or consumption by the United States.

\_\_\_\_\_  
Name of Governmental Agency  
\_\_\_\_\_  
Number and Street or Rural Route City, Town, or Post Office State ZIP Code

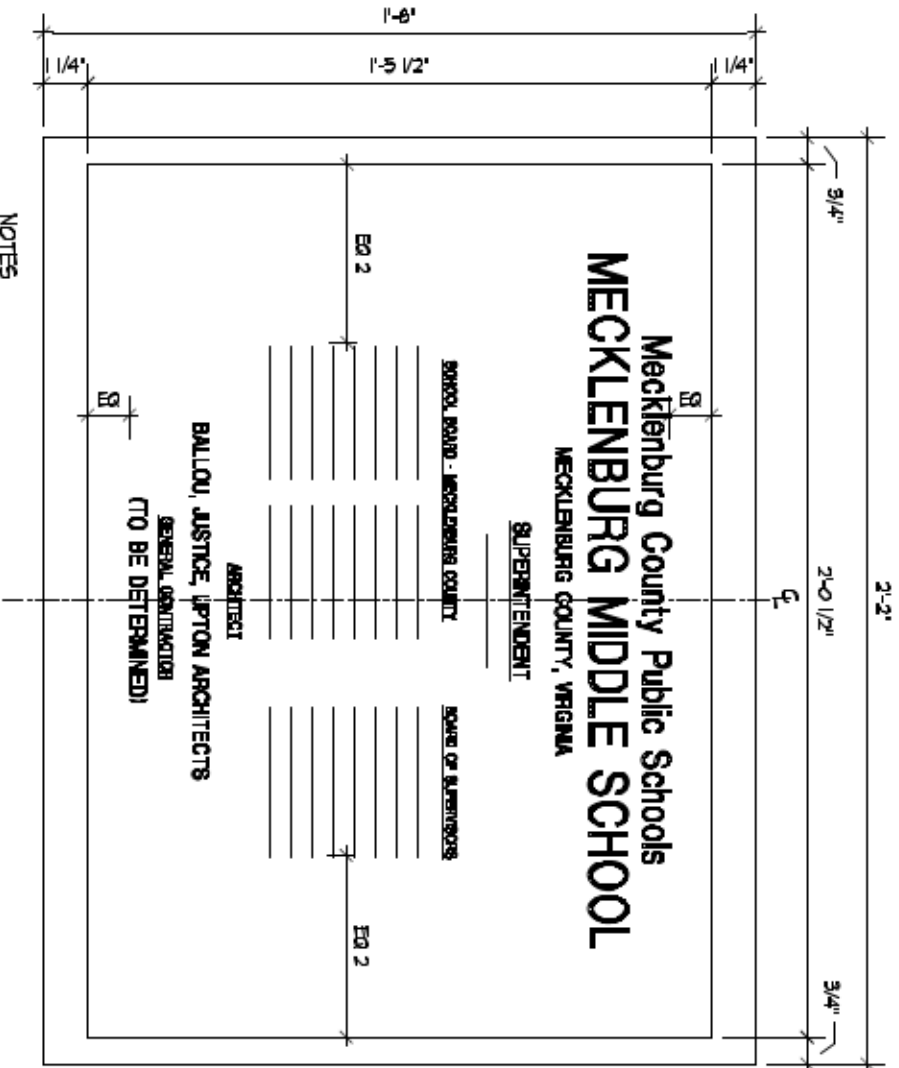
I certify I am authorized to sign this Certificate of Exemption and that, to the best of my knowledge and belief, it is true and correct, made in good faith, pursuant to the Virginia Retail Sales and Use Tax Act.

By: \_\_\_\_\_ Title \_\_\_\_\_  
Signature

**Information for dealer:** A dealer is required to have on file only one Certificate of Exemption, properly executed by the governmental agency buying or leasing tax exempt tangible personal property under this Certificate.

# Owner Direct Purchase Process





- NOTES**
1. LETTER SIZES AND TYPE FONTS TO BE DETERMINED AT A LATER DATE.
  2. EQUAL DIMENSIONS WILL BE DETERMINED BASED ON NOTE #1.

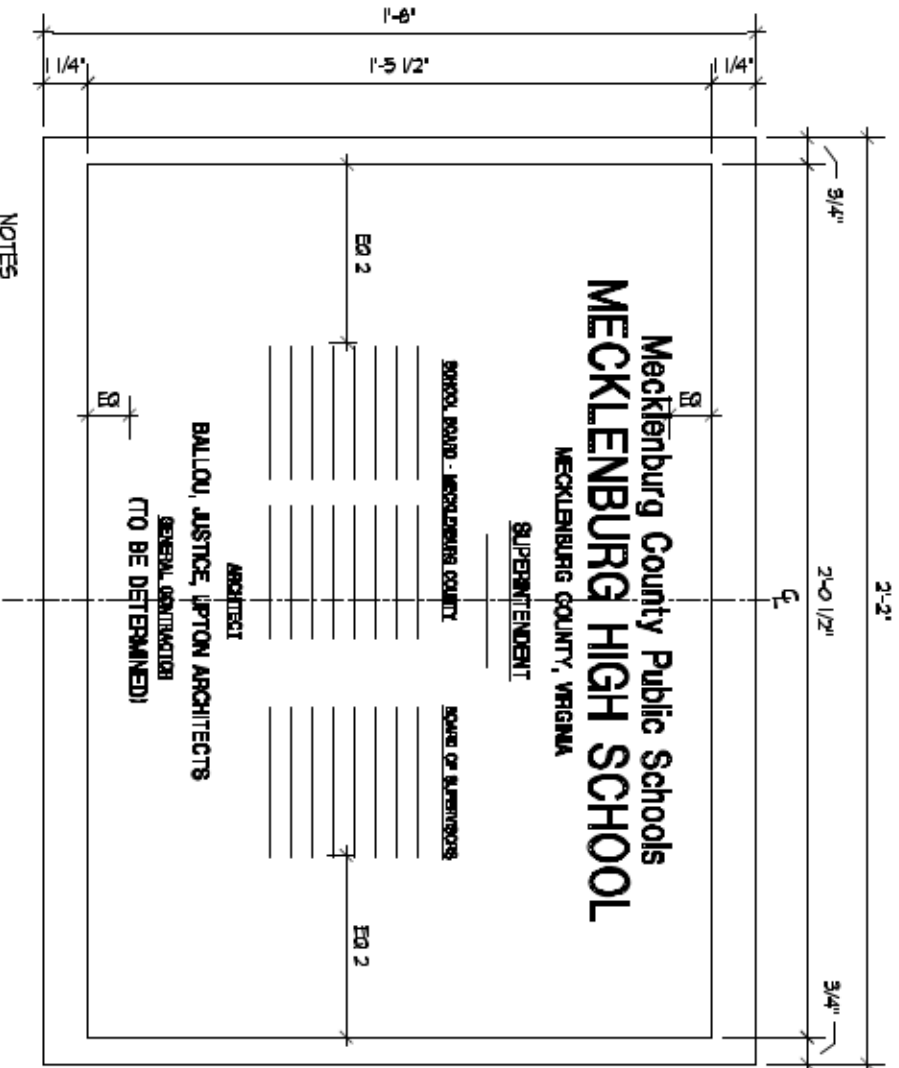
**BRONZE LOBBY PLAQUE DETAIL**



**Ballou Justice Upton  
Associates Architects**  
 2402 N. PARHAM ROAD  
 RICHMOND, VIRGINIA 23229  
 (804) 270-0909  
 (804) 346-3301 fax  
 WWW.BJUARCHITECTS.COM

MCP5  
MIDDLE SCHOOL  
BRONZE LOBBY PLAQUE  
 NOT TO SCALE





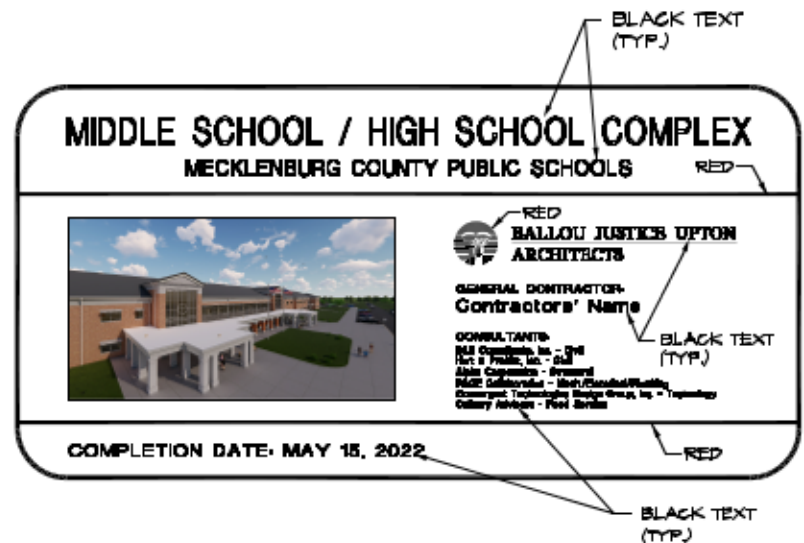
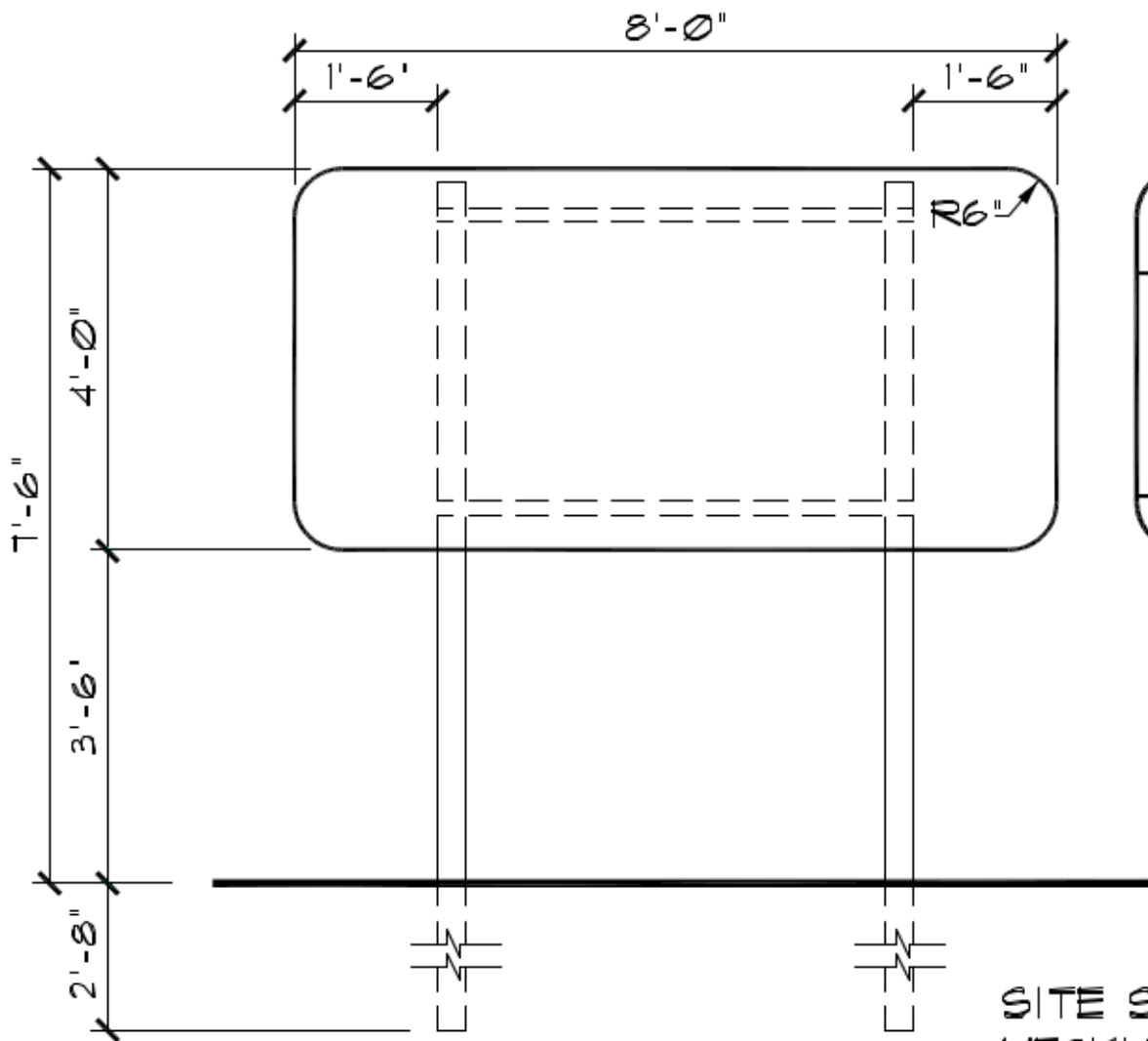
- NOTES**
1. LETTER SIZES AND TYPE FONTS TO BE DETERMINED AT A LATER DATE.
  2. EQUAL DIMENSIONS WILL BE DETERMINED BASED ON NOTE #1.

**BRONZE LOBBY PLAQUE DETAIL**



**Ballou Justice Upton  
Associates Architects**  
 2402 N. PARHAM ROAD  
 RICHMOND, VIRGINIA 23229  
 (804) 270-0909  
 (804) 346-3301 fax  
 WWW.BJUARCHITECTS.COM

MCP5  
HIGH SCHOOL  
BRONZE LOBBY PLAQUE  
 NOT TO SCALE



NOTE:  
 4' x 8' x 3/4" THK. EXTERIOR GRADE PLYWOOD SIGN. BACKGROUND PAINTED WHITE WITH BLACK LETTERING AND RED LINES & LOGO.

**SITE SIGN FOR  
 MECKLENBURG COUNTY PUBLIC SCHOOLS  
 MIDDLE SCHOOL / HIGH SCHOOL COMPLEX  
 MECKLENBURG COUNTY, VIRGINIA**

**MIDDLE SCHOOL / HIGH SCHOOL COMPLEX**  
**MECKLENBURG COUNTY PUBLIC SCHOOLS**



**BALLOU JUSTICE UPTON**  
**ARCHITECTS**

**GENERAL CONTRACTOR:**  
**Contractors' Name**

**CONSULTANTS:**  
B&B Consultants, Inc. - Civil  
Hurt & Proffitt, Inc. - Civil  
Alpha Corporation - Structural  
PAGE Collaborative - Mech./Electrical/Plumbing  
Convergent Technologies Design Group, Inc. - Technology  
Culinary Advisors - Food Service

**COMPLETION DATE: MAY 15, 2022**

BLACK TEXT  
(TYP.)

RED

RED

BLACK TEXT  
(TYP.)

RED

BLACK TEXT  
(TYP.)

NOTE:

4' x 8' x 3/4" THK. EXTERIOR GRADE  
PLYWOOD SIGN. BACKGROUND PAINTED  
WHITE WITH BLACK LETTERING AND RED  
LINES & LOGO.

## SECTION 087100 – DOOR HARDWARE

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

#### 1.2 SUMMARY:

- A. Section Includes: Finish Hardware for door openings, except as otherwise specified herein.
  - 1. Door hardware for steel (hollow metal) doors.
  - 2. Door hardware for aluminum doors.
  - 3. Door hardware for wood doors.
  - 4. Door hardware for other doors indicated.
  - 5. Keyed cylinders as indicated.
- B. Related Sections:
  - 1. Division 6: Rough Carpentry.
  - 2. Division 8: Aluminum Doors and Frames
  - 3. Division 8: Hollow Metal Doors and Frames.
  - 4. Division 8: Wood Doors.
  - 5. Division 26 Electrical
  - 6. Division 28: Electronic Security
- C. References: Comply with applicable requirements of the following standards. Where these standards conflict with other specific requirements, the most restrictive shall govern.
  - 1. Builders Hardware Manufacturing Association (BHMA)
  - 2. NFPA 101 Life Safety Code
  - 3. NFPA 80 -Fire Doors and Windows
  - 4. ANSI-A156.xx- Various Performance Standards for Finish Hardware
  - 5. UL10C – Positive Pressure Fire Test of Door Assemblies
  - 6. ANSI-A117.1 – Accessible and Usable Buildings and Facilities
  - 7. DHI /ANSI A115.IG – Installation Guide for Doors and Hardware
  - 8. ICC – International Building Code
- D. Intent of Hardware Groups
  - 1. Should items of hardware not definitely specified be required for completion of the Work, furnish such items of type and quality comparable to adjacent hardware and appropriate for service required.
  - 2. Where items of hardware aren't definitely or correctly specified, are required for completion of the Work, a written statement of such omission, error, or other discrepancy to be submitted to Architect, prior to date specified for receipt of bids for clarification by addendum; or, furnish such items in the type and quality established by this specification, and appropriate to the service intended.
- E. Alternates
  - 1. Refer to Division 1 for Alternates and procedures.

1.3 SUBSTITUTIONS:

- A. Comply with Division 1.

1.4 SUBMITTALS:

- A. Comply with Division 1.
- B. Special Submittal Requirements: Combine submittals of this Section with Sections listed below to ensure the "design intent" of the system/assembly is understood and can be reviewed together.
- C. Product Data: Manufacturer's specifications and technical data including the following:
  - 1. Detailed specification of construction and fabrication.
  - 2. Manufacturer's installation instructions.
  - 3. Wiring diagrams for each electric product specified. Coordinate voltage with electrical before submitting.
  - 4. Submit 6 copies of catalog cuts with hardware schedule.
  - 5. Provide 9001-Quality Management and 14001-Environmental Management for products listed in Materials Section 2.2
- D. Shop Drawings - Hardware Schedule: Submit 6 complete reproducible copy of detailed hardware schedule in a vertical format.
  - 1. List groups and suffixes in proper sequence.
  - 2. Completely describe door and list architectural door number.
  - 3. Manufacturer, product name, and catalog number.
  - 4. Function, type, and style.
  - 5. Size and finish of each item.
  - 6. Mounting heights.
  - 7. Explanation of abbreviations and symbols used within schedule.
  - 8. Detailed wiring diagrams, specially developed for each opening, indicating all electric hardware, security equipment and access control equipment, and door and frame rough-ins required for specific opening.
- E. Templates: Submit templates and "reviewed Hardware Schedule" to door and frame supplier and others as applicable to enable proper and accurate sizing and locations of cutouts and reinforcing.
  - 1. Templates, wiring diagrams and "reviewed Hardware Schedule" of electrical terms to electrical for coordination and verification of voltages and locations.
- F. Samples: (If requested by the Architect)
  - 1. 1 sample of Lever and Rose/Escutcheon design, (pair).
  - 2. 3 samples of metal finishes
- G. Contract Closeout Submittals: Comply with Division 1 including specific requirements indicated.
  - 1. Operating and maintenance manuals: Submit 3 sets containing the following.
    - a. Complete information in care, maintenance, and adjustment, and data on repair and replacement parts, and information on preservation of finishes.
    - b. Catalog pages for each product.
    - c. Name, address, and phone number of local representative for each manufacturer.

- d. Parts list for each product.
2. Copy of final hardware schedule, edited to reflect, "As installed".
3. Copy of final keying schedule
4. As installed "Wiring Diagrams" for each piece of hardware connected to power, both low voltage and 110 volts.
5. One set of special tools required for maintenance and adjustment of hardware, including changing of cylinders.

## 1.5 QUALITY ASSURANCE

### A. Comply with Division 1.

1. Statement of qualification for distributor and installers.
2. Statement of compliance with regulatory requirements and single source responsibility.
3. Distributor's Qualifications: Firm with 3 years - experience in the distribution of commercial hardware.
  - a. Distributor to employ full time Architectural Hardware Consultants (AHC) for the purpose of scheduling and coordinating hardware and establishing keying schedule.
  - b. Hardware Schedule shall be prepared and signed by an AHC.
4. Installer's Qualifications: Firm with 3 years experienced in installation of similar hardware to that required for this Project, including specific requirements indicated.
5. Regulatory Label Requirements: Provide testing agency label or stamp on hardware for labeled openings.
  - a. Provide UL listed hardware for labeled and 20 - minute openings in conformance with requirements for class of opening scheduled.
  - b. Underwriters Laboratories requirements have precedence over this specification where conflict exists.
6. Single Source Responsibility: Except where specified in hardware schedule, furnish products of only one manufacturer for each type of hardware.

- B. Review Project for extent of finish hardware required to complete the Work. Where there is a conflict between these Specifications and the existing hardware, notify the Architect in writing and furnish hardware in compliance with the Specification unless otherwise directed in writing by the Architect.

## 1.6 DELIVERY, STORAGE, AND HANDLING

### A. Packing and Shipping: Comply with Division 1.

1. Deliver products in original unopened packaging with legible manufacturer's identification.
2. Package hardware to prevent damage during transit and storage.
3. Mark hardware to correspond with "reviewed hardware schedule".
4. Deliver hardware to door and frame manufacturer upon request.

- B. Storage and Protection: Comply with manufacturer's recommendations.

1.7 PROJECT CONDITIONS:

- A. Coordinate hardware with other work. Furnish hardware items of proper design for use on doors and frames of the thickness, profile, swing, security and similar requirements indicated, as necessary for the proper installation and function, regardless of omissions or conflicts in the information on the Contract Documents.
- B. Review Shop Drawings for doors and entrances to confirm that adequate provisions will be made for the proper installation of hardware.

1.8 WARRANTY:

- A. Refer to Conditions of the Contract
- B. Manufacturer's Warranty:
  - 1. Closers: Thirty years
  - 2. Exit Devices: Five Years
  - 3. Mechanical Cylindrical Locksets: Ten Years
  - 4. Cylinders: Three years
  - 5. All other Hardware: One year.

1.9 OWNER'S INSTRUCTION:

- A. Instruct Owner's personnel in operation and maintenance of hardware units.

1.10 MAINTENANCE:

- A. Extra Service Materials: Deliver to Owner extra materials from same production run as products installed. Package products with protective covering and identify with descriptive labels. Comply with Division 1 Closeout Submittals Section.
  - 1. Special Tools: Provide special wrenches and tools applicable to each different or special hardware component.
  - 2. Maintenance Tools: Provide maintenance tools and accessories supplied by hardware component manufacturer.
  - 3. Delivery, Storage and Protection: Comply with Owner's requirements for delivery, storage and protection of extra service materials.
- B. Maintenance Service: Submit for Owner's consideration maintenance service agreement for electronic products installed.

PART 2 - PRODUCTS

2.1 MANUFACTURERS:

- A. The following manufacturers are approved subject to compliance with requirements of the Contract Documents. Approval of manufacturers other than those listed shall be in accordance with Division 1.

<u>Item:</u>	<u>Manufacturer:</u>	<u>Approved:</u>
Hinges	Stanley	Bommer, McKinney
Continuous Hinges	Stanley/ABH	Select, ABH
Locksets	Best 9K	
Cylinders	Best Cormax	
Exit Devices	Precision	Von Duprin, Sargent 80-GL-19

Closers	Stanley D-4550	Dorma 8900, Norton 7500, LCN 4040
Access Control System	Keyscan Aurora (Ref. Section 281300)-KABA E-Plex Wireless	
Automatic Operators	Dorma ED900	Horton, Stanley
Push/Pull Plates	Trimco	Burns, Rockwood
Protection Plates	Trimco	Burns, Rockwood
Overhead Stops	ABH	Rixson, Glynn Johnson
Door Stops	Trimco	Burns, Rockwood
Flush Bolts	Trimco	ABH, Burns
Coordinator & Brackets	Trimco	ABH, Burns
Threshold & Gasketing	National Guard	Reese, K.N. Crowder

## 2.2 MATERIALS:

### A. Hinges:

1. Template screw hole locations
2. Minimum of 2 permanently lubricated non-detachable bearings
3. Equip with easily seated, non-rising pins
4. Sufficient size to allow 180-degree swing of door
5. Furnish hinges with five knuckles and flush [concealed] bearings
6. Provide hinge type as listed in schedule.
7. Furnish 3 hinges per leaf to 7 foot 6 inch height. Add one for each additional 30 inches in height or fraction thereof.
8. Tested and approved by BHMA for all applicable ANSI Standards for type, size, function and finish
9. UL10C listed for Fire rated doors.

### B. Geared Continuous Hinges:

1. Tested and approved by BHMA for ANSI A156.26-1996 Grade 1
2. Anti-spinning through fastener
3. UL10C listed for 3-hour Fire rating
4. Non-handed
5. Lifetime warranty
6. Provide Fire Pins for 1 1/2-hour fire ratings
7. Sufficient size to permit door to swing 180 degrees

### C. Cylindrical Type Locks and Latchsets:

1. Tested and approved by BHMA for ANSI A156.2, Series 4000, Operational Grade 1, Extra-Heavy Duty, and be UL10C listed.
2. Provide 9001-Quality Management and 14001-Environmental Management.
3. Fit modified ANSI A115.2 door preparation.
4. Locksets and cores to be of the same manufacturer to maintain complete lockset warranty
5. Locksets to have anti-rotational studs that are thru-bolted
6. Keyed lever shall not have exposed "keeper" hole
7. Each lever to have independent spring mechanism controlling it
8. 2-3/4 inch (70 mm) backset
9. 9/16 inch (14 mm) throw latchbolt
10. Provide sufficient curved strike lip to protect door trim
11. Outside lever sleeve to be seamless, of one-piece construction made of a hardened steel alloy
12. Keyed lever to be removable only after core is removed, by authorized control key
13. Provide locksets with 7-pin removable and interchangeable core cylinders



14. Hub, side plate, shrouded rose, locking pin to be a one-piece casting with a shrouded locking lug.
15. Locksets outside locked lever must withstand minimum 1400 inch pounds of torque. In excess of that, a replaceable part will shear. Key from outside and inside lever will still operate lockset.
16. Core face must be the same finish as the lockset.
17. Functions and design as indicated in the hardware groups.

D. Exit Devices shall:

1. Tested and approved by BHMA for ANSI 156.3, Grade 1
2. Provide 9001-Quality Management and 14001-Environmental Management.
3. Furnish UL or recognized independent laboratory certified mechanical operational testing to 10 million cycles minimum.
4. Provide a deadlocking latchbolt
5. Non-fire rated exit devices shall have cylinder dogging.
6. Touchpad shall be "T" style
7. Exposed components shall be of architectural metals and finishes.
8. Lever design shall match lockset lever design
9. Provide strikes as required by application.
10. Fire exit devices to be listed for UL10C
11. UL listed for Accident Hazard
12. Shall consist of a cross bar or push pad, the actuating portion of which extends across, shall not be less than one half the width of the door leaf.
13. Provide vandal resistant or breakaway trim
14. Aluminum vertical rod assemblies are acceptable only when provide with the manufacturers optional top and bottom stainless steel rod guard protectors.

E. Cylinders:

1. Provide the necessary cylinder housings, collars, rings & springs as recommended by the manufacturer for proper installation.
2. Provide the proper cylinder cams or tail piece as required to operate all locksets and other keyed hardware items listed in the hardware sets.
3. Coordinate and provide as required for related sections.

F. Door Closers shall:

1. Tested and approved by BHMA for ANSI 156.4, Grade 1
2. UL10C certified
3. Provide 9001-Quality Management and 14001-Environmental Management.
4. Closer shall have extra-duty arms and knuckles
5. Conform to ANSI 117.1
6. Maximum 2 7/16 inch case projection with non-ferrous cover
7. Separate adjusting valves for closing and latching speed, and backcheck
8. Provide adapter plates, shim spacers and blade stop spacers as required by frame and door conditions
9. Full rack and pinion type closer with 1½" minimum bore
10. Mount closers on non-public side of door, unless otherwise noted in specification
11. Closers shall be non-handed, non-sized and multi-sized.

G. Low Energy Operators shall:

1. Conform to ANSI/BHMA A156.19 as a low energy power opening device.
2. Be listed under UL228, UL325, UL10B, UL10C, UBC 7.2 and FCC listed.

3. Shall be non-handed.
  4. Be rated for door panels weighing up to 220 lbs.
  5. Operator shall be isolated from mounting plate with rubber mounts to mitigate the transmission of forces between the door and the operator.
  6. Shall have a position encoder to communicate with microprocessor.
  7. Incorporate a resetable powered operation counter that tracts both powered and non-powered cycling of the Operator.
  8. Incorporate the following adjustable settings:
    - i. Hold Open Timer, to 28 seconds
    - ii. Open Speed
    - iii. Backcheck Speed
    - iv. Vestibule Sequence Timer
  9. Include DIP switch controls for:
    - i. On board diagnostics
    - ii. Power close
    - iii. Push and Go operation
    - iv. Time delay logic for electrified hardware components
  10. Include terminals for auxiliary controls including:
    - i. Activation devices; provide two discrete inputs
    - ii. Vestibule sequencing
  11. Control switches including:
    - i. Day/Night open (illuminated)
    - ii. Power On-Off
  12. Includes adhesive Low Energy Operator mounting templates.
  13. Units must be FURNISHED and INSTALLED by Factory Trained personnel.
- H. Door Stops: Provide a dome floor or wall stop for every opening as listed in the hardware sets.
1. Wall stop and floor stop shall be wrought bronze, brass or stainless steel.
  2. Provide fastener suitable for wall construction.
  3. Coordinate reinforcement of walls where wall stop is specified.
  4. Provide dome stops where wall stops are not practical. Provide spacers or carpet riser for floor conditions encountered
- I. Over Head Stops: Provide a Surface mounted or concealed overhead when a floor or wall stop cannot be used or when listed in the hardware set.
1. Concealed overhead stops shall be heavy duty bronze or stainless steel.
  2. Surface overhead stops shall be heavy duty bronze or stainless steel.
- J. Push Plates: Provide with four beveled edges ANSI J301, .050 thickness, size as indicated in hardware set. Furnish oval-head countersunk screws to match finish.
- K. Pulls with plates: Provide with four beveled edges ANSI J301, .050 thickness Plates with ANSI J401 Pull as listed in hardware set. Provide proper fasteners for door construction.
- L. Push Pull Bars: Provide ANSI J504, .1" Dia. Pull and push bar model and series as listed in hardware set. Provide proper fasteners for door construction.
- M. Kickplates: Provide with four beveled edges ANSI J102, 10 inches high by width less 2 inches on single doors and 1 inch on pairs of doors. Furnish oval-head countersunk screws to match finish.
- N. Door Bolts: Flush bolts for wood or metal doors.

1. Provide a set of Automatic bolts, Certified ANSI/BHMA 156.3 Type 25 for hollow metal label doors.
  2. Provide a set of Automatic bolts, Certified ANSI/BHMA 156.3 Type 27 at wood label doors.
  3. Manual flush bolts, Certified ANSI/BHMA 156.16 at openings where allowed local authority.
  4. Provide Dust Proof Strike, Certified ANSI/BHMA 156.16 at doors with flush bolts without thresholds.
- O. Coordinator and Brackets: Provide a surface mounted coordinator when automatic bolts are used in the hardware set.
1. Coordinator, Certified ANSI/BHMA A1156.3 Type 21A for full width of the opening.
  2. Provide mounting brackets for soffit applied hardware.
  3. Provide hardware preparation (cutouts) for latches as necessary.
- P. Power Supply: Provide power supply for (MLR) Motorized Latch Retraction exit devices
1. UL Listed for class II output
  2. Include circuit breakers for protection of motherboard
  3. 115 or 230 Volt user selectable switch, with AC input= 115 Volt at 1 Amp
  4. Control module shall include Fire alarm terminal and Auxiliary contacts for remote signaling.
  5. Precision RPSMLR2 Series with the required modules.
- Q. Quick Connect Power Transfer: Power transfer device shall be a steel housing and flexible tube. Secure and inconspicuous channel is to bring power from the frame to the door.
1. Precision EPT-12C
  2. Tube shall contain 12 Wire bundle with Stanley Quick Connect Connectors one 4 wire connector consisting of two 18AWG wires and 2 24AWG wires and one 8 wire connector with 8 24AWG wires.
- R. Magnetic Door Holders: Provide magnetic door holders with Tri-Voltage that can be wired 12VDC, 24V AC/DC or 120V AC
1. Wall magnetic door holders shall be Recessed.
  2. Armature shall be thru-bolted and can be provided with any projection required.
  3. Models will be available in US28, sprayed finishes and US32D.
  4. Floor mounted shall be provided for a single door or double door hold open application.
- S. Seals: All seals shall be finished to match adjacent frame color. Seals shall be furnished as listed in schedule. Material shall be UL listed for labeled openings.
- T. Weatherstripping: Provide at head and jambs only those units where resilient or flexible seal strip is easily replaceable. Where bar-type weatherstrip is used with parallel arm mounted closers install weatherstrip first.
1. Weatherstrip shall be resilient seal of (Neoprene, Polyurethane, Vinyl, Pile, Nylon Brush, Silicone)
  2. UL10C Positive Pressure rated seal set when required.
- U. Door Bottoms/Sweeps: Surface mounted or concealed door bottom where listed in the hardware sets.
1. Door seal shall be resilient seal of (Neoprene, Polyurethane, Nylon Brush, Silicone)
  2. UL10C Positive Pressure rated seal set when required.
- V. Thresholds: Thresholds shall be aluminum beveled type with maximum height of ½" for conformance with ADA requirements. Furnish as specified and per details. Provide fasteners and screws suitable for floor conditions.

- W. Provide one wall mounted Telkee, Lund or MMF series key cabinet complete with hooks, index and tags to accommodate 50% expansion. Coordinate mounting location with architect.
- X. Silencers: Furnish silencers on all interior frames, 3 for single doors, 2 for pairs. Omit where any type of seals occur.

### 2.3 FINISH:

- A. Designations used in Schedule of Finish Hardware - 3.05, and elsewhere to indicate hardware finishes are those listed in ANSI/BHMA A156.18 including coordination with traditional U.S. finishes shown by certain manufacturers for their products
- B. Powder coat door closers to match other hardware, unless otherwise noted.
- C. Aluminum items shall be finished to match predominant adjacent material. Seals to coordinate with frame color.

### 2.4 KEYS AND KEYING:

- A. Provide keyed brass construction cores and keys during the construction period. Construction control and operating keys and core shall not be part of the Owner's permanent keying system or furnished in the same keyway (or key section) as the Owner's permanent keying system. Permanent cores and keys (prepared according to the accepted keying schedule) will be furnished to the Owner.
- B. Cylinders, removable and interchangeable core system: Best CORMAX™ Patented 7-pin.
- C. Permanent keys and cores: Stamped with the applicable key mark for identification. These visual key control marks or codes will not include the actual key cuts. Permanent keys will also be stamped "Do Not Duplicate."
- D. Transmit Grand Masterkeys, Masterkeys and other Security keys to Owner by Registered Mail, return receipt requested.
- E. Furnish keys in the following quantities:
  - 1. 1 each Grand Masterkeys
  - 2. 4 each Masterkeys
  - 3. 2 each Change keys each keyed core
  - 4. 15 each Construction masterkeys
  - 5. 1 each Control keys
- F. The Owner, or the Owner's agent, will install permanent cores and return the construction cores to the Hardware Supplier. Construction cores and keys remain the property of the Hardware Supplier.
- G. Keying Schedule: Arrange for a keying meeting, and programming meeting with Architect Owner and hardware supplier, and other involved parties to ensure locksets and locking hardware, are functionally correct and keying and programming complies with project requirements. Furnish 3 typed copies of keying and programming schedule to Architect.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Verification of conditions: Examine doors, frames, related items and conditions under which Work is to be performed and identify conditions detrimental to proper and or timely completion.
  - 1. Do not proceed until unsatisfactory conditions have been corrected.

### 3.2 HARDWARE LOCATIONS:

- A. Mount hardware units at heights indicated in the following publications except as specifically indicated or required to comply with the governing regulations.
  - 1. Recommended Locations for Builder's Hardware for Standard Steel Doors and Frames, by the Door and Hardware Institute (DHI).
  - 2. Recommended locations for Architectural Hardware for flush wood doors (DHI).
  - 3. WDMA Industry Standard I.S.-1A-04, Industry Standard for Architectural wood flush doors.

### 3.3 INSTALLATION:

- A. Install each hardware item per manufacturer's instructions and recommendations. Do not install surface mounted items until finishes have been completed on the substrate. Set units level, plumb and true to line and location. Adjust and reinforce the attachment substrate as necessary for proper installation and operation.
- B. Conform to local governing agency security ordinance.
- C. Install Conforming to ICC/ANSI A117.1 Accessible and Usable Building and Facilities.
  - 1. Adjust door closer sweep periods so that from the open position of 70 degrees, the door will take at least 3 seconds to move to a point 3 inches from the latch, measured to the landing side of the door.
- D. Installed hardware using the manufacturers fasteners provided. Drill and tap all screw holes located in metallic materials. Do not use "Riv-Nuts" or similar products.

### 3.4 FIELD QUALITY CONTROL AND FINAL ADJUSTMENT

- A. Contractor/Installers, Field Services: After installation is complete, contractor shall inspect the completed door openings on site to verify installation of hardware is complete and properly adjusted, in accordance with both the Contract Documents and final shop drawings.
  - 1. Check and adjust closers to ensure proper operation.
  - 2. Check latchset, lockset, and exit devices are properly installed and adjusted to ensure proper operation.
    - a. Verify levers are free from binding.
    - b. Ensure latchbolts and dead bolts are engaged into strike and hardware is functioning.
  - 3. Report findings, in writing, to architect indicating that all hardware is installed and functioning properly. Include recommendations outlining corrective actions for improperly functioning hardware if required.

3.5 SCHEDULE OF FINISH HARDWARE:

**Manufacturer List**

<u>Code</u>	<u>Name</u>
AB	ABH Manufacturing Inc.
BE	Best Access Systems
D&DT	D & D Technologies
DE	Detex
DM	Dorma Door Controls
DORM	Dorma Door Controls
KABA	KABA/ILCO
NA	National Guard
PR	Precision
PRCI	Precision Non Supported
SD	Stanley Door Closers
SENT	Sentrol
SN	Securitron
ST	Stanley
TR	Trimco

**Option List**

<u>Code</u>	<u>Description</u>
4	1-3/4" Door Thickness
C	QUICK CONNECT WIRING OPTION
C	Quick Connect Wiring System
N	Thru-Bolt w/ Flow-Thru
W	Weatherized
2"	2" Thick Doors
FL	Fire Exit Hardware
KL	KEY LOCKABLE COVER
LD	Less Dogging
MR	Manual Reset for Fire Release
PT	Power Transfer
S3	ANSI Strike Package
SW	Standard Width Cover
TS	TOUCHBAR MONITORING SWITCH
3RO	Prefix option for 2000 Apex Series
AVB	Advanced Variable Backcheck
CSK	COUNTER SINKING OF KICK and MOP PLATES
LBR	LESS BOTTOM ROD
MLR	MOTORIZED LATCH RETRACTION
M/FR	Metal Frame
S300	STD. STRIKE - RIM AND TOP OF SVR DEVICES
S988	STANDARD. STRIKE - NARROW STILE RIM
CA-03	Cylinder Attachment Kit (Rim/SVR Device)
WD/DR	Wood Door
EPT Prep	EPT Prep (full mortise)
P45-180D	Drop Plate for Narrow Top Rail

P45HD-110	Spacer Block HD Arm on Rabbet
P45HD-112	Angle Brkt. - Shoe Support HD Arms
Torx Screws	Torx Head Screws (Each) - Excluding Bolt
B4E-HEAVY-KP	BEVELED 4 EDGES - KICK PLATES
10-24 SSMS/LA	STAINLESS MACHINE SCREWS/LEAD ANCHOR
Cut to Length	Cut to Length (Specify)
RB12V7 (QTY. OF 2)	12VDC, 7.2 AMP-HR RECHARGEABLE BATTERIES
CUT TO CUSTOM LENGTH	Cut to Custom Length
CORMAX PATENTED KEYING	Cormax Patented Keying

### Finish List

<u>Code</u>	<u>Description</u>
AL	Aluminum
BK	Black
603	Zinc Plated
626	Satin Chromium Plated
628	Satin Aluminum, Clear Anodized
630	Satin Stainless Steel
689	Aluminum Painted
GREY	Grey
BLACK	Black
US26D	Chromium Plated, Dull
US32D	Stainless Steel, Dull

### Hardware Sets

#### SET #01

Doors: A117B, A119A, A131B, C107B, D120B, E131B, F101A, F127B, G135-SG, G136-SG, J139-SG

1	Continuous Hinge	A270HDC x PT x LAR x coordinate door thickness	AB
1	Exit Device	3RO C MLR TS 2103 CA-03 S988 x door thickness as	630
PR		required	
1	Rim Cylinder	12E-72 PATD CORMAX PATENTED KEYING 626	BE
1	Door Pull	1191-4 x N x door thickness as required 630	TR
1	Door Closer	CLD-4551 CS AVB P45-180D P45HD-110 689	SD
1	Wire Harness	WH-192P	ST
1	Power Supply	RPSMLR2	PR
1	Power Transfer	EPT-12C	PR
		NOTE: Offset installation templating as required on Aluminum Doors.	
1	Door Position Switch	MC7	DM
		NOTE: Furnished by Section 281300 Access Control Supplier.	
1	Wire Harness	WH-XX x coordinate with door for LAR	ST
1	Door Sweep	C699A x LAR	NA
1	Saddle Threshold	425 x LAR x 10-24 SSMS/LA AL	NA
		NOTE: Notch around strike jamb.	

1 Wall or Mullion Card Reader K-SMART3 13.56 MHz High Freq. Reader  
KABA

NOTE: Furnished by Section 281300 Access Control Supplier.

1 Exit Dev.Offset Channel Filler 73116277S or 73118520S as required BK PRCI  
NOTE: Furnish at doors A119A, F101A, G135-SG, G136-SG,  
J139-SG.

NOTE: Perimeter frame weatherstrip to be furnished by the frame manufacturer. These exterior doors are normally secured and can be dogged open individually by the access control system. Card Reader, Controller, Software and Infrastructure to be furnished by the Access Control Provider. Free egress at all times. Presentation of a valid credential retracts the exit device latch on the primary leaf so the door can be pulled open. Door position switch is to monitor the door open or closed status.

## SET #02

Doors: A119B, B101A, D101A, F101B

1 Continuous Hinge	A270HDC x LAR x coordinate door thickness		AB
1 Exit Device	3RO 2101 x S988 x thickness as required	630	PR
1 Exit Dev.Offset Channel Filler	73116277S or 73118520S as required	BK	PRCI
1 Door Closer	CLD-4551 CS AVB P45-180D P45HD-110 P45HD-112	689	SD
1 Door Position Switch	MC7		DM
	NOTE: Furnished by Section 281300 Access Control Supplier.		
1 Door Sweep	C699A x LAR		NA
1 Saddle Threshold	425 x LAR x 10-24 SSMS/LA	AL	NA
	NOTE: Notch around strike jamb.		

NOTE: Perimeter frame weatherstrip to be furnished by the frame manufacturer. These exterior doors are normally secured. Controller, Software and Infrastructure to be furnished by the Access Control Provider for monitoring. Free egress at all times. Door position switch is to monitor the door open or closed status.

## SET #03

Doors: A128, F125, H104A, H105A, H133A, H134A, J134-PR, J139-PR

1 Continuous Hinge	A270HDC x PT x LAR x coordinate door thickness		AB
1 Continuous Hinge	A270HDC x LAR x coordinate door thickness		AB
1 Exit Device	3RO 2101 x S988 x thickness as required	630	PR
1 Exit Device	3RO C MLR TS 2103 CA-03 S988 x door thickness as required	630	630
PR			
1 Rim Cylinder	12E-72 PATD CORMAX PATENTED KEYING	626	BE
1 Door Pull	1191-4 x N x door thickness as required	630	TR
2 Door Closer	CLD-4551 CS AVB P45-180D P45HD-110 P45HD-112	689	SD
1 Power Transfer	EPT-12C		PR
	NOTE: Offset installation templating as required on Aluminum Doors.		
2 Door Position Switch	MC7		DM
	NOTE: Furnished by Section 281300 Access Control Supplier.		



1	Wire Harness	WH-XX x coordinate with door for LAR		ST
1	Wire Harness	WH-192P		ST
1	Power Supply	RPSMLR2		PR
2	Door Sweep	C699A x LAR		NA
2	Exit Dev.Offset Channel Filler	73116277S or 73118520S as required	BK	PRCI
1	Saddle Threshold	425 x LAR x 10-24 SSMS/LA	AL	NA

NOTE: Notch around strike jamb.

1 Wall or Mullion Card Reader K-SMART3 13.56 MHz High Freq. Reader

KABA

NOTE: Furnished by Section 281300 Access Control Supplier.

NOTE: Frame with Fixed Strike Jamb. Perimeter frame weatherstrip to be furnished by the frame manufacturer. These exterior doors are normally secured and the active leaf can be dogged open individually by the access control system. Card Reader, Controller, Software and Infrastructure to be furnished by the Access Control Provider. Free egress at all times. Presentation of a valid credential retracts the exit device latch on the primary leaf so the door can be pulled open. Door position switch is to monitor the door open or closed status.

**SET #04**

Doors: A123B, A126C, F120B, F124B, F124C, F128C, F129C, F131C, CP102, CP103, CP104, BR107B, BR108

1 Overhead Door Position Switch 2202A/2202AU-L 628

SENT

NOTE: Furnished by Section 281300 Access Control Supplier.

NOTE: Balance of hardware to be furnished by the door manufacturer. Controller, Software and Infrastructure to be furnished by the Access Control Provider for monitoring. Door position switch is to monitor the door open or closed status.

**SET #05**

Doors: F119B, J119A, CP101, CP105, BR101, BR107A

1	Continuous Hinge	661HD x UL x EPT x factory cut to length as req.	AL	ST
1	Electro-mech Lock	9KW3-7DEU15D PATD C CORMAX PATENTED		626

BE

KEYING S3

1	Door Closer	CLD-4551 CS AVB	689	SD
1	Kick Plate	K0050 10" x 2" LDW x B4-HEAVY x CSK	630	TR
1	Wire Harness	WH-XX x coordinate with door for LAR		ST
1	Wire Harness	WH-192P		ST
1	Lock Guard	5002	630	TR
1	Door Position Switch	MC7		DM

NOTE: Furnished by Section 281300 Access Control Supplier.

1	Power Transfer	EPT-12C		PR
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NOTE: Offset installation templating as required on Aluminum Doors.

1	Drip Cap	16 A - 4" ODW		NA
1	Weatherstrip	700SA x head x jambs x LAR		NA
1	Door Sweep	C699A x LAR		NA
1	Saddle Threshold	425 x LAR x 10-24 SSMS/LA	AL	NA

1 Wall or Mullion Card Reader K-SMART3 13.56 MHz High Freq. Reader  
KABA

NOTE: Furnished by Section 281300 Access Control Supplier.

NOTE: These exterior doors are normally secured. Card Reader, Controller, Software and Infrastructure to be furnished by the Access Control Provider. Free egress at all times. Presentation of a valid credential momentarily unlocks the outside lever for entry. Door position switch is to monitor the door open or closed status. Power for the lock is to be provided by the access control supplier.

**SET #06**

Doors: G115, G126, H117, J123, J132B, J136C, J141B, J142B, FH104, FH108, FH117, FH121

1 Continuous Hinge	661HD x UL x EPT x factory cut to length as req.	AL	ST
1 Exit Device	3RO C MLR 2103 CA-03	630	PR
1 Rim Cylinder	12E-72 PATD CORMAX PATENTED KEYING	626	BE
1 Flush Pull	1111B 4 Torx Screws	630	TR
1 Door Closer	CLD-4551 EDA AVB	689	SD
1 Kick Plate	K0050 10" x 2" LDW x B4-HEAVY x CSK	630	TR
1 Convex Wall Stop	1270CX	626	TR
1 Power Transfer	EPT-12C		PR

NOTE: Offset installation templating as required on Aluminum Doors.

1 Door Position Switch	MC7		DM
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NOTE: Furnished by Section 281300 Access Control Supplier.

1 Wire Harness	WH-XX x coordinate with door for LAR		ST
1 Wire Harness	WH-192P		ST
1 Power Supply	RPSMLR2		PR
1 Saddle Threshold	425 x LAR x 10-24 SSMS/LA	AL	NA
1 Drip Cap	16 A - 4" ODW		NA
1 Weatherstrip	700SA x head x jambs x LAR		NA
1 Door Sweep	C699A x LAR		NA

1 Wall or Mullion Card Reader K-SMART3 13.56 MHz High Freq. Reader  
KABA

NOTE: Furnished by Section 281300 Access Control Supplier.

NOTE: These exterior doors are normally secured and can be dogged open individually by the access control system. Card Reader, Controller, Software and Infrastructure to be furnished by the Access Control Provider. Free egress at all times. Presentation of a valid credential retracts the exit device latch on the primary leaf so the door can be pulled open. Door position switch is to monitor the door open or closed status.

**SET #07**

Doors: B101B, D101B, G135-PR, G136-PR, H104B, H105B, H133B, H134B

1 Continuous Hinge	A270HDC x PT x LAR x coordinate door thickness		AB
1 Continuous Hinge	A270HDC x LAR x coordinate door thickness		AB
1 Exit Device	3RO 2101 x S988 x thickness as required	630	PR
1 Exit Device	3RO C MLR 2101 x S988 x thickness as required	630	PR
2 Exit Dev.Offset Channel Filler	73116277S or 73118520S as required	BK	PRCI
1 Door Pull	1191-4 x N x door thickness as required	630	TR

		NOTE: Install on RHR only.		
2	Door Closer	CLD-4551 CS AVB P45-180D P45HD-110	689	SD
		P45HD-112		
1	Power Transfer	EPT-12C		PR
		NOTE: Offset installation templating as required on Aluminum Doors.		
1	Wire Harness	WH-192P		ST
1	Wire Harness	WH-XX x coordinate with door for LAR		ST
2	Door Position Switch	MC7		DM
		NOTE: Furnished by Section 281300 Access Control Supplier.		
2	Door Sweep	C699A x LAR		NA
1	Saddle Threshold	425 x LAR x 10-24 SSMS/LA	AL	NA

mullion

NOTE: Notch the threshold around the center strike jamb and adjoining hinge

to match up with the single door threshold where this occurs.

NOTE: Frame with Fixed Strike Jamb. Perimeter frame weatherstrip to be furnished by the frame manufacturer. These exterior doors are normally secured and the RHR leaf can be dogged open individually by the access control system. Controller, Software and Infrastructure to be furnished by the Access Control Provider. Free egress at all times. Door position switch is to monitor the door open or closed status. Power supply for the RHR exit device to be used by the adjoining single door.

#### SET #08

Doors: G113, H124B, H127B, J120, FH112, FH115, FH125, MS104, HS104

1	Continuous Hinge	661HD x UL x EPT x factory cut to length as req.	AL	ST
1	Continuous Hinge	661HD x UL x factory cut to length as req.	AL	ST
1	Dustproof Strike	3911	630	TR
1	Set Semi-Auto Flush Bolts	3820 X 3810	630	TR
1	Electro-mech Lock	9KW3-7DEU15D PATD C CORMAX PATENTED		626

BE

		KEYING S3		
2	Door Closer	CLD-4551 CS AVB	689	SD
1	Coordinator	3092	BLACK	TR
2	Kick Plate	K0050 10" x 1" LDW x B4E-HEAVY x CSK	630	TR
1	Wire Harness	WH-XX x coordinate with door for LAR		ST
1	Wire Harness	WH-192P		ST
1	Lock Guard	5002	630	TR
1	Power Transfer	EPT-12C		PR

NOTE: Offset installation templating as required on Aluminum Doors.

1	Weatherstrip	700SA x head x jambs x LAR		NA
1	Saddle Threshold	425 x LAR x 10-24 SSMS/LA	AL	NA
1	Drip Cap	16 A - 4" ODW		NA
2	Door Sweep	C699A x LAR		NA
1	Wall or Mullion Card Reader	K-SMART3 13.56 MHz High Freq. Reader		

KABA

		NOTE: Furnished by Section 281300 Access Control Supplier.		
2	Door Position Switch	MC7		DM
		NOTE: Furnished by Section 281300 Access Control Supplier.		
1	Meeting Stile Astragal Gasket	5075B x LAR		NA
		NOTE: Apply to metal overlapping astragal.		

NOTE: Metal overlapping astragal to be furnished by the door manufacturer. These exterior doors are normally secured. Card Reader, Controller, Software and Infrastructure to be furnished by the Access Control Provider. Free egress at all times. Presentation of a valid credential momentarily unlocks the outside lever for entry. Door position switch is to monitor the door open or closed status. Power for the lock is to be provided by the access control supplier.

**SET #09**

Doors: J134-SG

1	Continuous Hinge	A270HDC x PT x LAR x coordinate door thickness		AB
1	Exit Dev.Offset Channel Filler	73116277S or 73118520S as required	BK	PRCI
1	Exit Device	3RO C MLR 2101 x S988 x thickness as required	630	PR
1	Door Pull	1191-4 x N x door thickness as required	630	TR
1	Door Closer	CLD-4551 CS AVB P45-180D P45HD-110	689	SD
		P45HD-112		
1	Door Position Switch	MC7		DM
		NOTE: Furnished by Section 281300 Access Control Supplier.		
1	Power Transfer	EPT-12C		PR
		NOTE: Offset installation templating as required on Aluminum Doors.		
1	Wire Harness	WH-192P		ST
1	Wire Harness	WH-XX x coordinate with door for LAR		ST
1	Door Sweep	C699A x LAR		NA
1	Saddle Threshold	425 x LAR x 10-24 SSMS/LA	AL	NA

NOTE: Perimeter frame weatherstrip to be furnished by the frame manufacturer. These exterior doors are normally secured and the leaf can be dogged open individually by the access control system. Controller, Software and Infrastructure to be furnished by the Access Control Provider. Free egress at all times. Door position switch is to monitor the door open or closed status. Power supply for the exit device to be shared by the adjoining door.

**SET #10**

Doors: B101C, D101C

1	Continuous Hinge	A270HDC x PT x LAR x coordinate door thickness		AB
1	Exit Device	3RO C MLR TS 2103 CA-03 S988 x door thickness as		630
		required		PR
1	Rim Cylinder	12E-72 PATD CORMAX PATENTED KEYING	626	BE
1	Door Pull	1191-4 x N x door thickness as required	630	TR
1	Operator	ED 900 J8 SW	689	DM
1	Overhead Stop	102X-SL x size as required	US32D	AB
1	Wire Harness	WH-192P		ST
1	Power Supply	RPSMLR2		PR
1	Power Transfer	EPT-12C		PR
		NOTE: Offset installation templating as required on Aluminum Doors.		
1	Door Position Switch	MC7		DM
		NOTE: Furnished by Section 281300 Access Control Supplier.		

1	Wire Harness	WH-XX x coordinate with door for LAR		ST
1	Door Sweep	C699A x LAR		NA
1	Saddle Threshold	425 x LAR x 10-24 SSMS/LA	AL	NA
1	Exit Dev.Offset Channel Filler	73116277S or 73118520S as required	BK	PRCI
1	Wall or Mullion Card Reader	K-SMART3 13.56 MHz High Freq. Reader		

KABA

NOTE: Furnished by Section 281300 Access Control Supplier.

2	Wall Switch	WS 1	630	DM
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NOTE: Perimeter frame weatherstrip to be furnished by the frame manufacturer. These exterior doors are normally secured and can be dogged open individually by the access control system. Card Reader, Controller, Software and Infrastructure to be furnished by the Access Control Provider. Free egress at all times. Presentation of a valid credential retracts the exit device latch on the primary leaf so the door can be pulled open. Door position switch is to monitor the door open or closed status. The Door Operator outside actuator is controlled by the access control system and presentation of a valid card will allow the outside actuator to power the operator and open the door. The operator program switch can also be used to control the outside actuator. The exit device latch can also be retracted for entry upon approval through the AiPhone or video-intercom system furnished by another Section.

## SET #11

Doors: B102C, D102C

1	Continuous Hinge	661HD x UL x EPT x factory cut to length as req.	AL	ST
1	Exit Device	3RO C MLR TS 2103 CA-03 S988 x door thickness as		630

PR

		required		
1	Rim Cylinder	12E-72 PATD CORMAX PATENTED KEYING	626	BE
1	Door Pull	1191-4 x N x door thickness as required	630	TR
1	Operator	ED 900 J8 SW	689	DM
1	Kick Plate	K0050 10" x 2" LDW x B4-HEAVY x CSK	630	TR
1	Concealed Overhead Stop	91X-S x size as required	626	DM
1	Power Transfer	EPT-12C		PR

NOTE: Offset installation templating as required on Aluminum Doors.

2	Wall Switch	WS 1	630	DM
1	Door Position Switch	MC7		DM

NOTE: Furnished by Section 281300 Access Control Supplier.

1	Wire Harness	WH-XX x coordinate with door for LAR		ST
1	Wire Harness	WH-192P		ST
1	Power Supply	RPSMLR2		PR
1	Exit Dev.Offset Channel Filler	73116277S or 73118520S as required	BK	PRCI
1	Wall or Mullion Card Reader	K-SMART3 13.56 MHz High Freq. Reader		

KABA

NOTE: Furnished by Section 281300 Access Control Supplier.

1	Desk Switch	PD15-2		DM
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NOTE: Perimeter frame weatherstrip to be furnished by the frame manufacturer. These doors are normally secured and can be dogged open individually by the access control system. Card Reader, Controller, Software and Infrastructure to be furnished by the Access Control Provider. Free egress at all times. Presentation of a valid credential retracts the exit device latch on the primary leaf so the door can be pulled open. Door position switch is to monitor the door open or closed status. The Door Operator outside actuator is controlled by the access control system and presentation of a valid card will allow the

outside actuator to power the operator and open the door. The operator program switch can also be used to control the outside actuator. The exit device latch can also be retracted for entry upon activation of a desk mounted switch for remote release.

## SET #12

Doors: B102B, D102B

1	Continuous Hinge	661HD x UL x EPT x factory cut to length as req.	AL	ST
1	Continuous Hinge	661HD x UL x factory cut to length as req.	AL	ST
1	Exit Device	3RO 2101 x S988 x thickness as required	630	PR
1	Exit Device	3RO C MLR 2101 x S988 x thickness as required	630	PR
2	Exit Dev.Offset Channel Filler	73116277S or 73118520S as required	BK	PRCI
1	Door Pull	1191-4 x N x door thickness as required	630	TR
2	Door Closer	CLD-4551 CS AVB P45HD-110 P45HD-112	689	SD
2	Kick Plate	K0050 10" x 2" LDW x B4-HEAVY x CSK	630	TR
1	Power Transfer	EPT-12C		PR
NOTE: Offset installation templating as required on Aluminum Doors.				
1	Wire Harness	WH-192P		ST
1	Wire Harness	WH-XX x coordinate with door for LAR		ST
2	Door Position Switch	MC7		DM

NOTE: Furnished by Section 281300 Access Control Supplier.

NOTE: Frame with Fixed Strike Jamb. Perimeter frame weatherstrip to be furnished by the frame manufacturer. These doors are normally secured and the active leaf can be dogged open individually by the access control system. Controller, Software and Infrastructure to be furnished by the Access Control Provider. Free egress at all times. Door position switch is to monitor the door open or closed status.

## SET #13

Doors: B102A, D102A

1	Continuous Hinge	661HD x UL x factory cut to length as req.	AL	ST
1	Exit Device	3RO 2101 x S988 x thickness as required	630	PR
1	Exit Dev.Offset Channel Filler	73116277S or 73118520S as required	BK	PRCI
1	Door Closer	CLD-4551 CS AVB P45HD-110 P45HD-112	689	SD
1	Kick Plate	K0050 10" x 2" LDW x B4-HEAVY x CSK	630	TR
1	Door Position Switch	MC7		DM

NOTE: Furnished by Section 281300 Access Control Supplier.

NOTE: Perimeter frame weatherstrip to be furnished by the frame manufacturer. These doors are normally secured. Controller, Software and Infrastructure to be furnished by the Access Control Provider for monitoring. Free egress at all times. Door position switch is to monitor the door open or closed status.

## SET #14

Doors: B140A, B140B, B160A, B160B

1	Continuous Hinge	661HD x UL x EPT x factory cut to length as req.	AL	ST
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1	Electro-mech Lock	9KW3-7DEU15D PATD C CORMAX PATENTED	626	
BE				
		KEYING S3		
1	Door Closer	CLD-4551 x AVB x Regular Arm Mounted	689	SD
1	Kick Plate	K0050 10" x 2" LDW x B4-HEAVY x CSK	630	TR
1	Concealed Overhead Stop	91X-S x size as required	626	DM
1	Wire Harness	WH-XX x coordinate with door for LAR		ST
1	Door Position Switch	MC7		DM
NOTE: Furnished by Section 281300 Access Control Supplier.				
1	Wire Harness	WH-192P		ST
1	Power Transfer	EPT-12C		PR
NOTE: Offset installation templating as required on Aluminum Doors.				
1	Wall or Mullion Card Reader	K-SMART3 13.56 MHz High Freq. Reader		
KABA				
NOTE: Furnished by Section 281300 Access Control Supplier.				
1	Desk Switch	PD15-2		DM
NOTE: These doors are normally secured. Card Reader, Controller, Software and Infrastructure to be furnished by the Access Control Provider. Free egress at all times. Presentation of a valid credential momentarily unlocks the outside lever for entry. Door position switch is to monitor the door open or closed status. Power for the lock is to be provided by the access control supplier. Remote momentary release of the outside lever for entry by the desk switch.				

**SET #15**

Doors: A118C, B119, C131C, D134, F112C, F118

2	Continuous Hinge	A270HDC x PT x LAR x coordinate door thickness		AB
2	Electro-mech Lock	9KW3-7DEU15D PATD C CORMAX PATENTED	626	
BE				
		KEYING S3		
2	Door Closer	CLD-4551 CS AVB P45-180D P45HD-110	689	SD
		P45HD-112		
2	Wire Harness	WH-192P		ST
2	Power Transfer	EPT-12C		PR
NOTE: Offset installation templating as required on Aluminum Doors.				
2	Door Position Switch	MC7		DM
NOTE: Furnished by Section 281300 Access Control Supplier.				
2	Wire Harness	WH-XX x coordinate with door for LAR		ST
2	Door Sweep	C699A x LAR		NA
1	Saddle Threshold	425 x LAR x 10-24 SSMS/LA	AL	NA
1	Wall or Mullion Card Reader	K-SMART3 13.56 MHz High Freq. Reader		
KABA				
NOTE: Furnished by Section 281300 Access Control Supplier.				

NOTE: Frame with Fixed Strike Jamb. Perimeter frame weatherstrip to be furnished by the frame manufacturer. These exterior doors are normally secured and the secure side levers can be unlocked by the access control system. Card Reader, Controller, Software and Infrastructure to be furnished by the Access Control Provider. Free egress at all times. Presentation of a valid credential unlocks the outside lever so the door can be opened. Door position switch is to monitor the door open or closed status. Lock power is to be provided by the access control supplier.

**SET #16**

Doors: A117A, A131A, C107A, D120A, E131A, F127A, A218, A234, C206, D214, E220, F227

1 Continuous Hinge	661HD x UL x factory cut to length as req.	AL	ST
1 Exit Device	3RO FL 2114 X 4914A S300	630	PR
1 Door Closer	CLD-4551 x AVB x Regular Arm Mounted	689	SD
1 Kick Plate	K0050 10" x 2" LDW x B4-HEAVY x CSK	630	TR
1 Convex Wall Stop	1270CX	626	TR
1 Door Position Switch	MC7		DM

NOTE: Furnished by Section 281300 Access Control Supplier.

NOTE: Perimeter frame gasketing to be furnished by the frame manufacturer. Controller, Software and Infrastructure to be furnished by the Access Control Provider. Free egress at all times. Door position switch is to monitor the door open or closed status.

**SET #17**

Doors: B103B, B122B, C101A, C101B, C101C, C101D, C131A, C131B, C132A, C132B, D103B, E101A, E117B, F112A, B203B, B214B, C201A, C201B, C218A, C218B, D203A, E201A, F203A

2 Swing-Clear Continuous Hinge			
A410HDC x LAR x Factory Cut as req. x HM FR x	WD DR		AB
1 Exit Device	3RO FL 2201 LBR	630	PR
1 Exit Device	3RO FL 2214 X 4914A LBR	630	PR
2 Door Closer	CLD-4551 EDA AVB	689	SD
2 Kick Plate	K0050 10" x 1" LDW x B4E-HEAVY x CSK	630	TR
2 Door Position Switch	MC7		DM

NOTE: Furnished by Section 281300 Access Control Supplier.

2 Jamb Smoke Seals	5075B x LAR x jambs		NA
1 Header Smoke Seals	5075B x LAR x header		NA
1 Meeting Stile Smoke Seal	5070B x LAR		NA
2 Exit Dev.Offset Channel Filler	73116277S or 73118520S as required	BK	PRCI
2 Wall Magnetic Door Holder	EM504-24120 x ER-extensions as required	689	DM

NOTE: Controller, Software and Infrastructure to be furnished by the Access Control Provider for monitoring. Free egress at all times. Door position switch is to monitor the door open or closed status. Electro-magnetic door holders to be wired to the fire alarm system to release in an alarmed condition.

**SET #18**

Doors: B103A, B122A, D103A, E101B, E117A, F112B, B203A, B214A, D203B, E201B, F203B

1 Swing-Clear Continuous Hinge			
A410HDC x LAR x Factory Cut as req. x HM FR x	WD DR		AB
1 Exit Device	3RO FL 2114 X 4914A	630	PR
1 Door Closer	CLD-4551 EDA AVB	689	SD
1 Kick Plate	K0050 10" x 2" LDW x B4-HEAVY x CSK	630	TR
1 Door Position Switch	MC7		DM

NOTE: Furnished by Section 281300 Access Control Supplier.

1 Header Smoke Seals	5075B x LAR x header		NA
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2 Jamb Smoke Seals	5075B x LAR x jambs		NA
1 Wall Magnetic Door Holder	EM504-24120 x ER-extensions as required	689	DM

NOTE: Controller, Software and Infrastructure to be furnished by the Access Control Provider for monitoring. Free egress at all times. Door position switch is to monitor the door open or closed status. Electro-magnetic door holders to be wired to the fire alarm system to release in an alarmed condition.

## SET #19

Doors: C112A, C112C, C112F

2 Continuous Hinge	661HD x UL x EPT x factory cut to length as req.	AL	ST
1 Exit Device	3RO C FL MLR 2203 CA-03 LBR	630	PR
1 Exit Device	3RO C FL MLR 2201 LBR	630	PR
1 Rim Cylinder	12E-72 PATD CORMAX PATENTED KEYING	626	BE
1 Door Pull	1191-4 x N x door thickness as required	630	TR
2 Door Closer	CLD-4551 CS AVB	689	SD
2 Kick Plate	K0050 10" x 1" LDW x B4E-HEAVY x CSK	630	TR
2 Door Position Switch	MC7		DM

NOTE: Furnished by Section 281300 Access Control Supplier.

2 Wire Harness	WH-XX x coordinate with door for LAR		ST
2 Wire Harness	WH-192P		ST
1 Power Supply	RPSMLR2		PR
2 Power Transfer	EPT-12C		PR

NOTE: Offset installation templating as required on Aluminum Doors.

1 Header Smoke Seals	5075B x LAR x header		NA
2 Jamb Smoke Seals	5075B x LAR x jambs		NA
1 Meeting Stile Smoke Seal	5070B x LAR		NA
1 Wall or Mullion Card Reader	K-SMART3 13.56 MHz High Freq. Reader		

KABA

NOTE: Furnished by Section 281300 Access Control Supplier.

NOTE: These doors are normally secured and the leaves can be electrically dogged open as separate openings by the access control system. Card Reader, Controller, Software and Infrastructure to be furnished by the Access Control Provider. Free egress at all times. Presentation of a valid credential retracts the exit device latch on both leaves so the doors can be pulled open. Door position switch is to monitor the door open or closed status. These doors can be dogged for push pull operation as required by the access control system. The power supply must be connected to the fire alarm system to cut power in an alarmed condition to latch the doors for fire protection.

## SET #20

Doors: C112B, C112D, C112E

2 Continuous Hinge	661HD x UL x EPT x factory cut to length as req.	AL	ST
1 Exit Device	3RO C FL MLR 2203 CA-03 LBR	630	PR
1 Exit Device	3RO C FL MLR 2201 LBR	630	PR
1 Rim Cylinder	12E-72 PATD CORMAX PATENTED KEYING	626	BE
1 Door Pull	1191-4 x N x door thickness as required	630	TR
2 Door Closer	CLD-4551 CS AVB	689	SD
2 Kick Plate	K0050 10" x 1" LDW x B4E-HEAVY x CSK	630	TR

2	Door Position Switch	MC7		DM
		NOTE: Furnished by Section 281300 Access Control Supplier.		
2	Wire Harness	WH-XX x coordinate with door for LAR		ST
2	Wire Harness	WH-192P		ST
1	Power Supply	RPSMLR2		PR
2	Power Transfer	EPT-12C		PR
		NOTE: Offset installation templating as required on Aluminum Doors.		
1	Header Smoke Seals	5075B x LAR x header		NA
2	Jamb Smoke Seals	5075B x LAR x jambs		NA
1	Meeting Stile Smoke Seal	5070B x LAR		NA

NOTE: These doors are normally secured and the leaves can be electrically dogged open as separate openings by the access control system. Controller, Software and Infrastructure to be furnished by the Access Control Provider. Free egress at all times. Door position switch is to monitor the door open or closed status. These doors can be dogged for push pull operation as required by the access control system. The power supply must be connected to the fire alarm system to cut power in an alarmed condition to latch the doors for fire protection.

## SET #21

Doors: C115, C116, H106A, H106B

2	Continuous Hinge	661HD x UL x EPT x factory cut to length as req.	AL	ST
1	Exit Device	3RO C MLR 2201 LBR	630	PR
1	Exit Device	3RO C MLR 2203 CA-03 LBR	630	PR
1	Rim Cylinder	12E-72 PATD CORMAX PATENTED KEYING	626	BE
1	Door Pull	1191-4 x N x door thickness as required	630	TR
2	Door Closer	CLD-4551 CS AVB	689	SD
2	Kick Plate	K0050 10" x 1" LDW x B4E-HEAVY x CSK	630	TR
2	Door Position Switch	MC7		DM
		NOTE: Furnished by Section 281300 Access Control Supplier.		
2	Wire Harness	WH-XX x coordinate with door for LAR		ST
2	Wire Harness	WH-192P		ST
1	Power Supply	RPSMLR2		PR
2	Power Transfer	EPT-12C		PR
		NOTE: Offset installation templating as required on Aluminum Doors.		
2	Door Silencers	1229A	GREY	TR
1	Wall or Mullion Card Reader	K-SMART3 13.56 MHz High Freq. Reader		

KABA

NOTE: Furnished by Section 281300 Access Control Supplier.

NOTE: These doors are normally secured and the leaves can be electrically dogged open as separate openings by the access control system. Card Reader, Controller, Software and Infrastructure to be furnished by the Access Control Provider. Free egress at all times. Presentation of a valid credential retracts the exit device latch on both leaves so the doors can be pulled open. Door position switch is to monitor the door open or closed status. These doors can be dogged for push pull operation as required by the access control system.

## SET #22

Doors: F102A

1	Continuous Hinge	661HD x UL x factory cut to length as req.	AL	ST
1	Exit Dev.Offset Channel Filler	73116277S or 73118520S as required	BK	PRCI
1	Dummy Bar	671DR x size as required	630	PR
1	Door Pull	1191-4 x N x door thickness as required	630	TR
1	Door Closer	CLD-4551 CS AVB P45HD-110 P45HD-112	689	SD
1	Kick Plate	K0050 10" x 2" LDW x B4-HEAVY x CSK	630	TR
1	Door Position Switch	MC7		DM

NOTE: Furnished by Section 281300 Access Control Supplier.

NOTE: Perimeter frame weatherstrip to be furnished by the frame manufacturer. Controller, Software and Infrastructure to be furnished by the Access Control Provider for monitoring. Free egress at all times. Door position switch is to monitor the door open or closed status.

### SET #23

Doors: F102B

1	Continuous Hinge	661HD x UL x factory cut to length as req.	AL	ST
1	Exit Dev.Offset Channel Filler	73116277S or 73118520S as required	BK	PRCI
1	Dummy Bar	671DR x size as required	630	PR
1	Door Closer	CLD-4551 CS AVB P45HD-110 P45HD-112	689	SD
1	Kick Plate	K0050 10" x 2" LDW x B4-HEAVY x CSK	630	TR
1	Door Position Switch	MC7		DM

NOTE: Furnished by Section 281300 Access Control Supplier.

NOTE: Perimeter frame weatherstrip to be furnished by the frame manufacturer. Controller, Software and Infrastructure to be furnished by the Access Control Provider for monitoring. Free egress at all times. Door position switch is to monitor the door open or closed status.

### SET #24

Doors: G104-SG, G110-SG, J106-SG, J113-SG

1	Continuous Hinge	661HD x UL x EPT x factory cut to length as req.	AL	ST
1	Exit Device	3RO C FL MLR 2103 CA-03	630	PR
1	Rim Cylinder	12E-72 PATD CORMAX PATENTED KEYING	626	BE
1	Door Pull	1191-4 x N x door thickness as required	630	TR
1	Door Closer	CLD-4551 CS AVB	689	SD
1	Kick Plate	K0050 10" x 2" LDW x B4-HEAVY x CSK	630	TR
1	Power Transfer	EPT-12C		PR

NOTE: Offset installation templating as required on Aluminum Doors.

1	Door Position Switch	MC7		DM
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NOTE: Furnished by Section 281300 Access Control Supplier.

1	Wire Harness	WH-XX x coordinate with door for LAR		ST
1	Wire Harness	WH-192P		ST
1	Power Supply	RPSMLR2		PR
1	Header Smoke Seals	5075B x LAR x header		NA
2	Jamb Smoke Seals	5075B x LAR x jambs		NA
1	Exit Dev.Offset Channel Filler	73116277S or 73118520S as required	BK	PRCI
1	Wall or Mullion Card Reader	K-SMART3 13.56 MHz High Freq. Reader		

KABA

NOTE: Furnished by Section 281300 Access Control Supplier.

NOTE: These doors are normally secured and can be dogged open individually by the access control system. Card Reader, Controller, Software and Infrastructure to be furnished by the Access Control Provider. Free egress at all times. Presentation of a valid credential retracts the exit device latch on the primary leaf so the door can be pulled open. Door position switch is to monitor the door open or closed status. These doors can be dogged for push pull operation as required by the access control system. The power supply must be connected to the fire alarm system to cut power in an alarmed condition to latch the doors for fire protection.

**SET #25**

Doors: G104-PR, G110-PR, J106-PR, J113-PR

2	Continuous Hinge	661HD x UL x EPT x factory cut to length as req.	AL	ST
2	Exit Dev.Offset Channel Filler	73116277S or 73118520S as required	BK	PRCI
2	Exit Device	3RO C FL MLR 2101	630	PR
1	Door Pull	1191-4 x N x door thickness as required	630	TR
2	Door Closer	CLD-4551 CS AVB	689	SD
2	Kick Plate	K0050 10" x 2" LDW x B4-HEAVY x CSK	630	TR
2	Power Transfer	EPT-12C		PR

NOTE: Offset installation templating as required on Aluminum Doors.

1	Power Supply	RPSMLR2		PR
2	Wire Harness	WH-192P		ST
2	Wire Harness	WH-XX x coordinate with door for LAR		ST
2	Door Position Switch	MC7		DM

NOTE: Furnished by Section 281300 Access Control Supplier.

2	Header Smoke Seals	5075B x LAR x header		NA
4	Jamb Smoke Seals	5075B x LAR x jambs		NA

NOTE: These doors are normally secured and can be dogged open individually by the access control system. Controller, Software and Infrastructure to be furnished by the Access Control Provider. Free egress at all times. Door position switch is to monitor the door open or closed status. These doors can be dogged for push pull operation as required by the access control system. The power supply must be connected to the fire alarm system to cut power in an alarmed condition to latch the doors for fire protection.

**SET #26**

Doors: G137A, G137B

2	Continuous Hinge	661HD x UL x EPT x factory cut to length as req.	AL	ST
1	Exit Device	3RO C FL MLR 2103 CA-03	630	PR
1	Exit Device	3RO C FL MLR 2101	630	PR
2	Exit Dev.Offset Channel Filler	73116277S or 73118520S as required	BK	PRCI
1	Rim Cylinder	12E-72 PATD CORMAX PATENTED KEYING	626	BE
1	Door Pull	1191-4 x N x door thickness as required	630	TR
2	Door Closer	CLD-4551 CS AVB	689	SD
2	Kick Plate	K0050 10" x 2" LDW x B4-HEAVY x CSK	630	TR
2	Door Position Switch	MC7		DM

NOTE: Furnished by Section 281300 Access Control Supplier.

2	Wire Harness	WH-XX x coordinate with door for LAR		ST
2	Wire Harness	WH-192P		ST

1	Power Supply	RPSMLR2		PR
2	Power Transfer	EPT-12C		PR
NOTE: Offset installation templating as required on Aluminum Doors.				
2	Header Smoke Seals	5075B x LAR x header		NA
4	Jamb Smoke Seals	5075B x LAR x jambs		NA
1	Wall or Mullion Card Reader	K-SMART3 13.56 MHz High Freq. Reader		

KABA

NOTE: Furnished by Section 281300 Access Control Supplier.

NOTE: These doors are normally secured and can be dogged open individually by the access control system. Card Reader, Controller, Software and Infrastructure to be furnished by the Access Control Provider. Free egress at all times. Presentation of a valid credential retracts the exit device latch on the primary leaf so the door can be pulled open. Door position switch is to monitor the door open or closed status. These doors can be dogged for push pull operation as required by the access control system. The power supply must be connected to the fire alarm system to cut power in an alarmed condition to latch the doors for fire protection.

### SET #27

Doors: B138, B158, B223, B224, B232, B233

1	Continuous Hinge	661HD x UL x EPT x factory cut to length as req.	AL	ST
1	Continuous Hinge	661HD x UL x factory cut to length as req.	AL	ST
1	Exit Device	3RO 2201 LBR	630	PR
1	Exit Device	3RO C MLR 2203 CA-03 LBR	630	PR
2	Exit Dev.Offset Channel Filler	73116277S or 73118520S as required	BK	PRCI
1	Rim Cylinder	12E-72 PATD CORMAX PATENTED KEYING	626	BE
1	Door Pull	1191-4 x N x door thickness as required	630	TR
2	Door Closer	CLD-4551 CS AVB P45HD-110 P45HD-112	689	SD
2	Kick Plate	K0050 10" x 1" LDW x B4E-HEAVY x CSK	630	TR
2	Door Position Switch	MC7		DM

NOTE: Furnished by Section 281300 Access Control Supplier.

1	Wire Harness	WH-XX x coordinate with door for LAR		ST
1	Wire Harness	WH-192P		ST
1	Power Supply	RPSMLR2		PR
1	Power Transfer	EPT-12C		PR

NOTE: Offset installation templating as required on Aluminum Doors.

1	Wall or Mullion Card Reader	K-SMART3 13.56 MHz High Freq. Reader		
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KABA

NOTE: Furnished by Section 281300 Access Control Supplier.

NOTE: Perimeter frame weatherstrip to be furnished by the frame manufacturer. These doors are normally secured and the active leaf can be dogged open individually by the access control system. Card Reader, Controller, Software and Infrastructure to be furnished by the Access Control Provider. Free egress at all times. Presentation of a valid credential retracts the exit device latch on the primary leaf so the door can be pulled open. Door position switch is to monitor the door open or closed status.

**SET #28**

Doors: FH102A, FH102B, FH114A, FH114B

1	Continuous Hinge	661HD x UL x EPT x factory cut to length as req.	AL	ST
1	Exit Device	3RO C MLR 2103 CA-03	630	PR
1	Rim Cylinder	12E-72 PATD CORMAX PATENTED KEYING	626	BE
1	Door Pull	1191-4 x N x door thickness as required	630	TR
1	Door Closer	CLD-4551 EDA AVB	689	SD
1	Kick Plate	K0050 10" x 2" LDW x B4-HEAVY x CSK	630	TR
1	Convex Wall Stop	1270CX	626	TR
1	Power Transfer	EPT-12C		PR
		NOTE: Offset installation templating as required on Aluminum Doors.		
1	Door Position Switch	MC7		DM
		NOTE: Furnished by Section 281300 Access Control Supplier.		
1	Wire Harness	WH-XX x coordinate with door for LAR		ST
1	Wire Harness	WH-192P		ST
1	Power Supply	RPSMLR2		PR
1	Weatherstrip	700SA x head x jambs x LAR		NA
1	Door Sweep	C699A x LAR		NA
1	Saddle Threshold	425 x LAR x 10-24 SSMS/LA	AL	NA
1	Wall or Mullion Card Reader	K-SMART3 13.56 MHz High Freq. Reader		

KABA

NOTE: Furnished by Section 281300 Access Control Supplier.

NOTE: These exterior doors are normally secured and can be dogged open individually by the access control system. Card Reader, Controller, Software and Infrastructure to be furnished by the Access Control Provider. Free egress at all times. Presentation of a valid credential retracts the exit device latch on the primary leaf so the door can be pulled open. Door position switch is to monitor the door open or closed status.

**SET #29**

Doors: FH101, FH113, MS101, MS103, MS105, MS106, HS101, HS103, HS105, HS106

3	Hinges	CB199 4 1/2 X 4 1/2	US32D	ST
1	Electro-mech Lock	9KW3-7DEU15D PATD C CORMAX PATENTED	626	BE
		KEYING S3		
1	Door Closer	CLD-4551 x AVB x Regular Arm Mounted	689	SD
1	Kick Plate	K0050 10" x 2" LDW x B4-HEAVY x CSK	630	TR
1	Convex Wall Stop	1270CX	626	TR
1	Wire Harness	WH-XX x coordinate with door for LAR		ST
1	Wire Harness	WH-192P		ST
1	Power Transfer	EPT-12C		PR
		NOTE: Offset installation templating as required on Aluminum Doors.		
1	Door Position Switch	MC7		DM
		NOTE: Furnished by Section 281300 Access Control Supplier.		
1	Weatherstrip	700SA x head x jambs x LAR		NA
1	Saddle Threshold	425 x LAR x 10-24 SSMS/LA	AL	NA
1	Door Sweep	C697A x LAR		NA

1 Wall or Mullion Card Reader K-SMART3 13.56 MHz High Freq. Reader  
 KABA

NOTE: Furnished by Section 281300 Access Control Supplier.

NOTE: These exterior doors are normally secured. Card Reader, Controller, Software and Infrastructure to be furnished by the Access Control Provider. Free egress at all times. Presentation of a valid credential momentarily unlocks the outside lever for entry. Door position switch is to monitor the door open or closed status. Power for the lock is to be provided by the access control supplier.

**SET #30**

Doors: MS102, HS102

3 Hinges	CB179 4 1/2 X 4 1/2 NRP	US26D	ST
1 Electro-mech Lock	9KW3-7DEU15D PATD C CORMAX PATENTED		626
BE			
	KEYING S3		
1 Convex Wall Stop	1270CX	626	TR
1 Door Position Switch	MC7		DM
1 Power Transfer	NOTE: Furnished by Section 281300 Access Control Supplier. EPT-12C		PR
	NOTE: Offset installation templating as required on Aluminum Doors.		
1 Wire Harness	WH-XX x coordinate with door for LAR		ST
1 Wire Harness	WH-192P		ST
3 Door Silencers	1229A	GREY	TR
1 Wall or Mullion Card Reader	K-SMART3 13.56 MHz High Freq. Reader		

KABA

NOTE: Furnished by Section 281300 Access Control Supplier.

NOTE: These doors are normally secured. Card Reader, Controller, Software and Infrastructure to be furnished by the Access Control Provider. Free egress at all times. Presentation of a valid credential momentarily unlocks the outside lever for entry. Door position switch is to monitor the door open or closed status. Power for the lock is to be provided by the access control supplier.

**SET #31**

Doors: BR217, BR219, BR227

3 Hinges	CB168 4 1/2 X 4 1/2 NRP	US26D	ST
1 Electro-mech Lock	9KW3-7DEU15D PATD C CORMAX PATENTED		626
BE			
	KEYING S3		
1 Door Closer	CLD-4551 EDA AVB	689	SD
1 Kick Plate	K0050 10" x 2" LDW x B4-HEAVY x CSK	630	TR
1 Convex Wall Stop	1270CX	626	TR
1 Wire Harness	WH-XX x coordinate with door for LAR		ST
1 Wire Harness	WH-192P		ST
1 Power Transfer	EPT-12C		PR
	NOTE: Offset installation templating as required on Aluminum Doors.		
1 Door Position Switch	MC7		DM

NOTE: Furnished by Section 281300 Access Control Supplier.

1 Header Smoke Seals	5075B x LAR x header		NA
2 Jamb Smoke Seals	5075B x LAR x jambs		NA
1 Wall or Mullion Card Reader	K-SMART3 13.56 MHz High Freq. Reader		

KABA

NOTE: Furnished by Section 281300 Access Control Supplier.

NOTE: These doors are normally secured. Card Reader, Controller, Software and Infrastructure to be furnished by the Access Control Provider. Free egress at all times. Presentation of a valid credential momentarily unlocks the outside lever for entry. Door position switch is to monitor the door open or closed status. Power for the lock is to be provided by the access control supplier.

**SET #32**

Doors: BR192, BR211

3 Hinges	CB179 4 1/2 X 4 1/2	US26D	ST
1 Electro-mech Lock	9KW3-7DEU15D PATD C CORMAX PATENTED		626

BE

	KEYING S3		
1 Convex Wall Stop	1270CX	626	TR
1 Door Position Switch	MC7		DM

NOTE: Furnished by Section 281300 Access Control Supplier.

1 Power Transfer	EPT-12C		PR
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NOTE: Offset installation templating as required on Aluminum Doors.

1 Wire Harness	WH-XX x coordinate with door for LAR		ST
1 Wire Harness	WH-192P		ST
3 Door Silencers	1229A	GREY	TR
1 Wall or Mullion Card Reader	K-SMART3 13.56 MHz High Freq. Reader		

KABA

NOTE: Furnished by Section 281300 Access Control Supplier.

NOTE: These doors are normally secured. Card Reader, Controller, Software and Infrastructure to be furnished by the Access Control Provider. Free egress at all times. Presentation of a valid credential momentarily unlocks the outside lever for entry. Door position switch is to monitor the door open or closed status. Power for the lock is to be provided by the access control supplier.

**SET #33**

Doors: B149, B150, B169, B170, C121, C122, F133, H125, H128, B248, B272, BR187, BR213

3 Hinges	CB168 4 1/2 X 4 1/2	US26D	ST
1 Privacy Set	9K3-0L15D S3	626	BE
1 Door Closer	CLD-4551 x AVB x Regular Arm Mounted	689	SD
1 Kick Plate	K0050 10" x 2" LDW x B4-HEAVY x CSK	630	TR
1 Concave Wall Stop	1270CV	626	TR
3 Door Silencers	1229A	GREY	TR

**SET #34**

Doors: FH110, FH123



3 Hinges	CB191 4 1/2 X 4 1/2	US32D	ST
1 Privacy Set	9K3-0L15D S3	626	BE
1 Door Closer	CLD-4551 x Regular Arm Mounted	689	SD
1 Kick Plate	K0050 10" x 2" LDW x B4-HEAVY x CSK	630	TR
1 Concave Wall Stop	1270CV	626	TR
3 Door Silencers	1229A	GREY	TR

### SET #35

Doors: B109, B110, B135A, B135B, B142, B144A, B147, B152, B156, B162, B164A, B167, B172, B176, C120, D109, D110, F109, G119, G120, G130, G131, J127, J128, J146, J147, B247, B251, B256, B271, B275, B280, C209, E215, E216, F202, F218, FH111, FH124

3 Hinges	CB179 4 1/2 X 4 1/2	US26D	ST
1 Passage Set	9K3-0N15D S3	626	BE
1 Convex Wall Stop	1270CX	626	TR
3 Door Silencers	1229A	GREY	TR

NOTE: Omit silencers at Aluminum Frames with perimeter gasketing.

### SET #36

Doors: FH105, FH118

1 Continuous Hinge	661HD x UL x factory cut to length as req.	AL	ST
1 Push Plate	1001-9	630	TR
1 Flush Pull	1111B 4 Torx Screws	630	TR
1 Door Closer	CLD-4551 CS AVB	689	SD
1 Kick Plate	K0050 10" x 2" LDW x B4-HEAVY x CSK	630	TR
3 Door Silencers	1229A	GREY	TR

### SET #37

Doors: A121B, A122B, A126A, A126B, B105A, B105B, B112, B127, B129, B133, B134, B136, B137, B139A, B139B, B141, B143, B144B, B145, B151, B154, B159A, B159B, B161, B163, B164B, B165, B171, B174, D105A, D105B, E129, F108B, F110, F116, F117, F132, G116, G117, G127, G128, H118, H126, H129, J116, J124, J125, J137D, J143, J144, A220, B220, B237, B238, B240, B241, B242, B243, B244, B245, B246, B253, B255, B261, B262, B264, B265, B266, B267, B268, B269, B270, B277, B279, C208, D216, D232A, D232B, D237, E206, E211A, E211B, E214, E217, E218, F216, F217, F220, F222, F224A, F224B, FH109, FH122

3 Hinges	CB179 4 1/2 X 4 1/2	US26D	ST
1 E-Plex Wireless Lock	E79N1031LLBF20	626	
KABA			
NOTE: Furnished by Section 281300 Access Control Supplier.			
1 Cormax Core	1CM-7 x factory combined	626	BE
1 Convex Wall Stop	1270CX	626	TR
1 Door Position Switch	MC7		DM
NOTE: Furnished by Section 281300 Access Control Supplier.			
3 Door Silencers	1229A	GREY	TR

NOTE: Networked wireless lock with door monitoring. Presentation of a valid credential momentarily unlocks the outside lever for entry. Door position switch monitors the door condition as open or closed. Furnish NRP hinges at outswing doors. Omit silencers at Aluminum Frames with perimeter gasketing.

**SET #38**

Doors: FH103A, FH103B, FH116A, FH116B

3 Hinges	CB168 4 1/2 X 4 1/2	US26D	ST
1 E-Plex Wireless Lock	E79N1031LLBF20	626	
<b>KABA</b>			
NOTE: Furnished by Section 281300 Access Control Supplier.			
1 Cormax Core	1CM-7 x factory combined	626	BE
1 Door Closer	CLD-4551 x Regular Arm Mounted	689	SD
1 Surface Overhead Stop	90X-S x size as required	626	DM
1 Kick Plate	K0050 10" x 2" LDW x B4-HEAVY x CSK	630	TR
1 Door Position Switch	MC7		DM
NOTE: Furnished by Section 281300 Access Control Supplier.			
3 Door Silencers	1229A	GREY	TR

NOTE: Networked wireless lock with door monitoring. Presentation of a valid credential momentarily unlocks the outside lever for entry. Door position switch monitors the door condition as open or closed.

**SET #39**

Doors: H103B, H107B, H107C, H108B, H108C, H111A, H111B, H113A, H113B, H132B, FH101A, FH101B, FH113A, FH113B

NOTE: All hardware to be furnished by the door manufacturer.

**SET #40**

Doors: A118A, G124A-SG, G124B-SG, G124C-SG, G124D-SG, J121A-SG, J121B-SG, J133-SG, J138-SG

1 Continuous Hinge	661HD x UL x factory cut to length as req.	AL	ST
1 Exit Dev.Offset Channel Filler	73116277S or 73118520S as required	BK	PRCI
1 Dummy Bar	671DR x size as required	630	PR
1 Door Pull	1191-4 x N x door thickness as required	630	TR
1 Door Closer	CLD-4551 CS AVB P45HD-110 P45HD-112	689	SD
1 Kick Plate	K0050 10" x 2" LDW x B4-HEAVY x CSK	630	TR

NOTE: Perimeter frame weatherstrip to be furnished by the frame manufacturer. Furnish Silencers at HM Frames.

**SET #41**

Doors: A118B

1 Continuous Hinge	661HD x UL x factory cut to length as req.	AL	ST
1 Exit Dev.Offset Channel Filler	73116277S or 73118520S as required	BK	PRCI
1 Dummy Bar	671DR x size as required	630	PR
1 Door Closer	CLD-4551 CS AVB P45HD-110 P45HD-112	689	SD
1 Kick Plate	K0050 10" x 2" LDW x B4-HEAVY x CSK	630	TR

NOTE: Perimeter frame weatherstrip to be furnished by the frame manufacturer.

**SET #42**

Doors: A127, G124A-PR, G124B-PR, G124C-PR, G124D-PR, H101A, H101B, H130A, H130B, J121A-PR, J121B-PR, J133-PR, J138-PR

2	Continuous Hinge	661HD x UL x factory cut to length as req.	AL	ST
2	Exit Dev.Offset Channel Filler	73116277S or 73118520S as required	BK	PRCI
2	Dummy Bar	671DR x size as required	630	PR
1	Door Pull	1191-4 x N x door thickness as required	630	TR
2	Door Closer	CLD-4551 CS AVB P45HD-110 P45HD-112	689	SD
2	Kick Plate	K0050 10" x 2" LDW x B4-HEAVY x CSK	630	TR

NOTE: Perimeter frame weatherstrip to be furnished by the frame manufacturer. Furnish Silencers at HM Frames.

**SET #43**

Doors: H101C, H101D, H130C, H130D

2	Continuous Hinge	A270HDC x LAR x coordinate door thickness		AB
2	Exit Dev.Offset Channel Filler	73116277S or 73118520S as required	BK	PRCI
2	Dummy Bar	671DR x size as required	630	PR
1	Door Pull	1191-4 x N x door thickness as required	630	TR
2	Door Closer	CLD-4551 CS AVB P45HD-110 P45HD-112	689	SD
2	Kick Plate	K0050 10" x 2" LDW x B4-HEAVY x CSK	630	TR

NOTE: Perimeter frame weatherstrip to be furnished by the frame manufacturer.

**SET #44**

Doors: A102, A103, A105, A111, A112, A114, A115, A116, A120, A121A, A122A, A123A, A124, A125, A129, A132, A134, A139, A140, A142, A143, A144, A145, A146, A147, B113, B114, B116, B124, B148, B153, B157B, B168, B173, B177B, C105, C106, C108, C109, C110, C124, D113, D114, D115, D116, D117, D119, D123, D124, D128, D129, D130, D131, D138, D139, D140, D141, D142, D143, D144, E104, E105, E106, E110, E112, E113, E114, E118, E119, E120, E122, E124, E126, F103, F106, F107, F108A, F111, F113, F115, F119A, F120A, F121, F122A, F124A, F126, F128A, F129A, F130, F131A, H103A, H114A, H114B, H120, H132A, J101, A202, A203, A204, A205, A209, A212, A214, A215, A216, A219, A221, A224, A227, A228, A229, A230, A232, A235, A237, A238, A243, A244, A245, A246, A247, A248, A249, B206, B207, B208, B209, B216, B217, B218, B219, B221, B222, B225, B226, B229, B234, B258, C202, C203, C204, D206, D207, D208, D209, D210, D211, D213, D215, D217, D221, D222, D223, D224, D229, D231, D233, D234, E204, E205, E210, E212, F201, F205, F206, F207, F208, F209, F210, F215, F221, F223, F225

3	Hinges	CB168 4 1/2 X 4 1/2	US26D	ST
1	E-Plex Wireless Lock	E79N1031LLBF20	626	

KABA

NOTE: Furnished by Section 281300 Access Control Supplier.

1	Cormax Core	1CM-7 x factory combined	626	BE
1	Door Closer	CLD-4551 x AVB x Regular Arm Mounted	689	SD
1	Kick Plate	K0050 10" x 2" LDW x B4-HEAVY x CSK	630	TR
1	Convex Wall Stop	1270CX	626	TR
1	Door Position Switch	MC7		DM

NOTE: Furnished by Section 281300 Access Control Supplier.

3 Door Silencers	1229A	GREY	TR
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NOTE: Networked wireless lock with door monitoring. Presentation of a valid credential momentarily unlocks the outside lever for entry. Door position switch monitors the door condition as open or closed. Omit silencers at Aluminum Frames with perimeter gasketing.

**SET #45**

Doors: A104, A113, B146, B166, C104A, D118, E111, E121, E123, E125, E127, A210, A239, D212, D235

3 Hinges	CB179 4 1/2 X 4 1/2	US26D	ST
1 Privacy Set	9K3-0L15D S3	626	BE
1 Concave Wall Stop	1270CV	626	TR
3 Door Silencers	1229A	GREY	TR

**SET #46**

Doors: A109, G101, G111, J104, J109, J110, A211, B204, B212, B213, B230, B231, B249, B252, B273, B276, F213

3 Hinges	CB168 4 1/2 X 4 1/2 NRP	US26D	ST
1 E-Plex Wireless Lock	E79N1031LLBF20	626	

KABA

NOTE: Furnished by Section 281300 Access Control Supplier.

1 Cormax Core	1CM-7 x factory combined	626	BE
1 Door Closer	CLD-4551 EDA AVB	689	SD
1 Kick Plate	K0050 10" x 2" LDW x B4-HEAVY x CSK	630	TR
1 Convex Wall Stop	1270CX	626	TR
1 Door Position Switch	MC7		DM

NOTE: Furnished by Section 281300 Access Control Supplier.

2 Jamb Smoke Seals	5075B x LAR x jambs		NA
1 Header Smoke Seals	5075B x LAR x header		NA

NOTE: Networked wireless lock with door monitoring. Presentation of a valid credential momentarily unlocks the outside lever for entry. Door position switch monitors the door condition as open or closed.

**SET #47**

Doors: A110, B120, B121, C119, D136, E115, F104, F105B, H107A, H108A

3 Hinges	CB168 4 1/2 X 4 1/2 NRP	US26D	ST
1 E-Plex Wireless Lock	E79N1031LLBF20	626	

KABA

NOTE: Furnished by Section 281300 Access Control Supplier.

1 Cormax Core	1CM-7 x factory combined	626	BE
1 Door Closer	CLD-4551 EDA AVB	689	SD
1 Kick Plate	K0050 10" x 2" LDW x B4-HEAVY x CSK	630	TR
1 Convex Wall Stop	1270CX	626	TR
1 Door Position Switch	MC7		DM

NOTE: Furnished by Section 281300 Access Control Supplier.

3 Door Silencers	1229A	GREY	TR
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NOTE: Networked wireless lock with door monitoring. Presentation of a valid credential momentarily unlocks the outside lever for entry. Door position switch monitors the door condition as open or closed. Omit silencers at Aluminum Frames.

**SET #48**

Doors: A107, A137, D126, E108, A207, A241, D219, E208

3 Hinges	CB168 4 1/2 X 4 1/2 NRP	US26D	ST
1 E-Plex Wireless Lock	E79N1031LLBF20	626	
KABA			
NOTE: Furnished by Section 281300 Access Control Supplier.			
1 Cormax Core	1CM-7 x factory combined	626	BE
1 Surface Overhead Stop	90X-S x size as required	626	DM
1 Kick Plate	K0050 10" x 2" LDW x B4-HEAVY x CSK	630	TR
1 Door Position Switch	MC7		DM
NOTE: Furnished by Section 281300 Access Control Supplier.			
3 Door Silencers	1229A	GREY	TR

NOTE: Networked wireless lock with door monitoring. Presentation of a valid credential momentarily unlocks the outside lever for entry. Door position switch monitors the door condition as open or closed.

**SET #49**

Doors: B104, C118, D104, F226

3 Hinges	CB168 4 1/2 X 4 1/2 NRP	US26D	ST
1 E-Plex Wireless Lock	E79N1031LLBF20	626	
KABA			
NOTE: Furnished by Section 281300 Access Control Supplier.			
1 Cormax Core	1CM-7 x factory combined	626	BE
1 Door Closer	CLD-4551 CS AVB	689	SD
1 Kick Plate	K0050 10" x 2" LDW x B4-HEAVY x CSK	630	TR
1 Door Position Switch	MC7		DM
NOTE: Furnished by Section 281300 Access Control Supplier.			
2 Jamb Smoke Seals	5075B x LAR x jambs		NA
1 Header Smoke Seals	5075B x LAR x header		NA

NOTE: Networked wireless lock with door monitoring. Presentation of a valid credential momentarily unlocks the outside lever for entry. Door position switch monitors the door condition as open or closed. Omit smoke seals at Aluminum Frame.

**SET #50**

Doors: B106, D106

3 Hinges	CB168 4 1/2 X 4 1/2	US26D	ST
1 Passage Set	9K3-0N15D S3	626	BE
1 Door Closer	CLD-4551 CS AVB	689	SD
1 Kick Plate	K0050 10" x 2" LDW x B4-HEAVY x CSK	630	TR
3 Door Silencers	1229A	GREY	TR

**SET #51**

Doors: B107, B108, B115, B117, D107, D108, G118, G129, J126, J145

3 Hinges	CB168 4 1/2 X 4 1/2	US26D	ST
1 Privacy Set	9K3-0L15D S3	626	BE
1 Door Closer	CLD-4551 CS AVB	689	SD
1 Kick Plate	K0050 10" x 2" LDW x B4-HEAVY x CSK	630	TR
3 Door Silencers	1229A	GREY	TR

**SET #52**

Doors: B123, C104, C113, C114, D112, D137, E128, G103, D204, D225, D228

3 Hinges	CB168 4 1/2 X 4 1/2	US26D	ST
1 E-Plex Wireless Lock	E79N1031LLBF20	626	

KABA

NOTE: Furnished by Section 281300 Access Control Supplier.

1 Cormax Core	1CM-7 x factory combined	626	BE
1 Door Closer	CLD-4551 x AVB x Regular Arm Mounted	689	SD
1 Kick Plate	K0050 10" x 2" LDW x B4-HEAVY x CSK	630	TR
1 Convex Wall Stop	1270CX	626	TR
1 Door Position Switch	MC7		DM

NOTE: Furnished by Section 281300 Access Control Supplier.

NOTE: Networked wireless lock with door monitoring. Presentation of a valid credential momentarily unlocks the outside lever for entry. Door position switch monitors the door condition as open or closed. Smoke seals to be furnished by the Aluminum Frame Manufacturer.

**SET #53**

Doors: B157C, B177C, B250, B274

3 Hinges	CB168 4 1/2 X 4 1/2 NRP	US26D	ST
1 E-Plex Wireless Lock	E79N1031LLBF20	626	

KABA

NOTE: Furnished by Section 281300 Access Control Supplier.

1 Cormax Core	1CM-7 x factory combined	626	BE
1 Door Closer	CLD-4551 EDA P45HD-110 P45HD-112	689	SD
1 Kick Plate	K0050 10" x 2" LDW x B4-HEAVY x CSK	630	TR
1 Convex Wall Stop	1270CX	626	TR
1 Door Position Switch	MC7		DM

NOTE: Furnished by Section 281300 Access Control Supplier.

NOTE: Perimeter frame weatherstrip to be furnished by the frame manufacturer. Networked wireless lock with door monitoring. Presentation of a valid credential momentarily unlocks the outside lever for entry. Door position switch monitors the door condition as open or closed.

**SET #54**

Doors: B132A, B132B

1 Continuous Hinge	661HD x UL x EPT x factory cut to length as req. AL		ST
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1	Continuous Hinge	661HD x UL x factory cut to length as req.	AL	ST
1	Exit Device	3RO C MLR TS 2103 CA-03 S988 x door thickness as		630
PR				
		required		
1	Exit Device	3RO 2101 x S988 x thickness as required	630	PR
2	Exit Dev.Offset Channel Filler	73116277S or 73118520S as required	BK	PRCI
1	Rim Cylinder	12E-72 PATD CORMAX PATENTED KEYING	626	BE
1	Door Pull	1191-4 x N x door thickness as required	630	TR
2	Door Closer	CLD-4551 CS AVB P45HD-110 P45HD-112	689	SD
2	Kick Plate	K0050 10" x 2" LDW x B4-HEAVY x CSK	630	TR
1	Door Position Switch	MC7		DM
NOTE: Furnished by Section 281300 Access Control Supplier.				
1	Wire Harness	WH-XX x coordinate with door for LAR		ST
1	Wire Harness	WH-192P		ST
1	Power Supply	RPSMLR2		PR
1	Power Transfer	EPT-12C		PR

NOTE: Offset installation templating as required on Aluminum Doors.

1 Wall or Mullion Card Reader K-SMART3 13.56 MHz High Freq. Reader  
KABA

NOTE: Furnished by Section 281300 Access Control Supplier.

NOTE: Frame with Fixed Strike Jamb. Perimeter frame weatherstrip to be furnished by the frame manufacturer. These doors are normally secured and the active leaf can be dogged open individually by the access control system. Card Reader, Controller, Software and Infrastructure to be furnished by the Access Control Provider. Free egress at all times. Presentation of a valid credential retracts the exit device latch on the primary leaf so the door can be pulled open. Door position switch is to monitor the door open or closed status.

#### SET #55

Doors: B128, B130, F122B, F128B, F129B, F131B, C214A, C214B

3	Hinges	CB168 4 1/2 X 4 1/2	US26D	ST
1	Passage Set	9K3-0N15D S3	626	BE
1	Door Closer	CLD-4551 x Regular Arm Mounted	689	SD
1	Kick Plate	K0050 10" x 2" LDW x B4-HEAVY x CSK	630	TR
1	Convex Wall Stop	1270CX	626	TR
3	Door Silencers	1229A	GREY	TR

NOTE: Omit silencers at Aluminum Frames.

#### SET #56

Doors: B126A, B126B, C128B

2	Continuous Hinge	661HD x UL x factory cut to length as req.	AL	ST
2	Exit Dev.Offset Channel Filler	73116277S or 73118520S as required	BK	PRCI
2	Dummy Bar	671DR x size as required	630	PR
1	Door Pull	1191-4 x N x door thickness as required	630	TR
2	Door Closer	CLD-4551 EDA AVB	689	SD
2	Kick Plate	K0050 10" x 1" LDW x B4E-HEAVY x CSK	630	TR

2 Convex Wall Stop	1270CX	626	TR
2 Gasketing	5060 B-21 21'		NA
2 Jamb Smoke Seals	5075B x LAR x jambs		NA
1 Header Smoke Seals	5075B x LAR x header		NA
3 Acoustic Seal	60FP		NA
2 Concealed Auto Door Bottom	225S x STC2-PR x LAR		NA
1 Threshold Assembly	8144 x LAR x 10-24 SSMS/LA	AL	NA

NOTE: Install smooth side up.

NOTE: Install STC gasketing and seals per NGP STC #7 Illustration.

### SET #57

Doors: B125, B131, C128A

2 Continuous Hinge	661HD x UL x EPT x factory cut to length as req.	AL	ST
2 Exit Dev.Offset Channel Filler	73116277S or 73118520S as required	BK	PRCI
1 Exit Device	3RO C MLR 2203 CA-03 LBR	630	PR
1 Exit Device	3RO C MLR 2201 LBR	630	PR
1 Rim Cylinder	12E-72 PATD CORMAX PATENTED KEYING	626	BE
1 Door Pull	1191-4 x N x door thickness as required	630	TR
2 Door Closer	CLD-4551 EDA AVB	689	SD
2 Kick Plate	K0050 10" x 1" LDW x B4E-HEAVY x CSK	630	TR
2 Convex Wall Stop	1270CX	626	TR
2 Door Position Switch	MC7		DM

NOTE: Furnished by Section 281300 Access Control Supplier.

2 Wire Harness	WH-XX x coordinate with door for LAR		ST
2 Wire Harness	WH-192P		ST
2 Power Transfer	EPT-12C		PR

NOTE: Offset installation templating as required on Aluminum Doors.

1 Power Supply	RPSMLR2		PR
2 Gasketing	5060 B-21 21'		NA
3 Acoustic Seal	60FP		NA
1 Header Smoke Seals	5075B x LAR x header		NA
2 Jamb Smoke Seals	5075B x LAR x jambs		NA
2 Concealed Auto Door Bottom	225S x STC2-PR x LAR		NA
1 Threshold Assembly	8144 x LAR x 10-24 SSMS/LA	AL	NA
1 Wall or Mullion Card Reader	K-SMART3 13.56 MHz High Freq. Reader		

KABA

NOTE: Furnished by Section 281300 Access Control Supplier.

NOTE: These doors are normally secured and the leaves can be electrically dogged open as separate openings by the access control system. Card Reader, Controller, Software and Infrastructure to be furnished by the Access Control Provider. Free egress at all times. Presentation of a valid credential retracts the exit device latch on both leaves so the doors can be pulled open. Door position switch is to monitor the door open or closed status. These doors can be dogged for push pull operation as required by the access control system. Install STC gasketing and seals per NGP STC #7 Illustration.

### SET #58

Doors: C102, C103, C125A, C125B, C130A, C130B, D121, D122, D132, D135, E102, E103, E116, E130, E132, E133, F114, G102, G107, H115, H119, J103, A213, A251, A252, B215, B257, B281, C207, D230, D236, E202, E203, E213, E219, F219



3 Hinges	CB168 4 1/2 X 4 1/2	US26D	ST
1 E-Plex Wireless Lock	E79N1031LLBF20	626	
KABA			
NOTE: Furnished by Section 281300 Access Control Supplier.			
1 Cormax Core	1CM-7 x factory combined	626	BE
1 Door Closer	CLD-4551 x AVB x Regular Arm Mounted	689	SD
1 Kick Plate	K0050 10" x 2" LDW x B4-HEAVY x CSK	630	TR
1 Convex Wall Stop	1270CX	626	TR
1 Door Position Switch	MC7		DM
NOTE: Furnished by Section 281300 Access Control Supplier.			
2 Jamb Smoke Seals	5075B x LAR x jambs		NA
1 Header Smoke Seals	5075B x LAR x header		NA

NOTE: Networked wireless lock with door monitoring. Presentation of a valid credential momentarily unlocks the outside lever for entry. Door position switch monitors the door condition as open or closed.

### SET #59

Doors: H106C, H106D

6 Hinges	CB168 4 1/2 X 4 1/2 NRP	US26D	ST
1 Dustproof Strike	3911	630	TR
1 Set Semi-Auto Flush Bolts	3825L X 3815L	630	TR
1 E-Plex Wireless Lock	E79N1031LLBF20	626	
KABA			
NOTE: Furnished by Section 281300 Access Control Supplier.			
1 Cormax Core	1CM-7 x factory combined	626	BE
1 Door Closer	CLD-4551 EDA AVB	689	SD
1 Door Position Switch	MC7		DM
NOTE: Furnished by Section 281300 Access Control Supplier.			
2 Door Silencers	1229A	GREY	TR

NOTE: Networked wireless lock with door monitoring. Presentation of a valid credential momentarily unlocks the outside lever for entry. Door position switch monitors the door condition as open or closed.

### SET #60

Doors: C117A, C117B

6 Hinges	CB168 4 1/2 X 4 1/2	US26D	ST
1 Dustproof Strike	3911	630	TR
1 Set Auto Flush Bolts	3815L X 3815L	630	TR
1 E-Plex Wireless Lock	E79N1031LLBF20	626	
KABA			
NOTE: Furnished by Section 281300 Access Control Supplier.			
1 Cormax Core	1CM-7 x factory combined	626	BE
1 Coordinator	3092	BLACK	TR
2 Door Closer	CLD-4551 x AVB x Regular Arm Mounted	689	SD
2 Kick Plate	K0050 10" x 1" LDW x B4E-HEAVY x CSK	630	TR
2 Convex Wall Stop	1270CX	626	TR
1 Door Position Switch	MC7		DM
NOTE: Furnished by Section 281300 Access Control Supplier.			
3 Acoustic Seal	60FP		NA

2 Gasketing	5060 B-21 21'		NA
2 Jamb Smoke Seals	5075B x LAR x jambs		NA
1 Header Smoke Seals	5075B x LAR x header		NA
2 Concealed Auto Door Bottom	225S x STC2-PR x LAR		NA
1 Threshold Assembly	8144 x LAR x 10-24 SSMS/LA	AL	NA

NOTE: Install smooth side up.

NOTE: Networked wireless lock with door monitoring. Presentation of a valid credential momentarily unlocks the outside lever for entry. Door position switch monitors the door condition as open or closed. Install STC gasketing and seals per NGP STC #7 Illustration.

### SET #61

Doors: C126, C129

3 Hinges	CB168 4 1/2 X 4 1/2	US26D	ST
1 Push Plate	1001-9	630	TR
1 Pull Plate	1017-3B	630	TR
1 Door Closer	CLD-4551 x AVB x Regular Arm Mounted	689	SD
1 Kick Plate	K0050 10" x 2" LDW x B4-HEAVY x CSK	630	TR
1 Convex Wall Stop	1270CX	626	TR
1 Header Smoke Seals	5075B x LAR x header		NA
2 Jamb Smoke Seals	5075B x LAR x jambs		NA

### SET #62

Doors: C127A, C127B, G109, G112, H124A, H127A, J118, J135A, J135B, J136B

6 Hinges	CB168 4 1/2 X 4 1/2	US26D	ST
1 Dustproof Strike	3911	630	TR
1 Set Auto Flush Bolts	3815L X 3815L	630	TR
1 E-Plex Wireless Lock	E79N1031LLBF20	626	

KABA

NOTE: Furnished by Section 281300 Access Control Supplier.

1 Cormax Core	1CM-7 x factory combined	626	BE
1 Coordinator	3092	BLACK	TR
2 Door Closer	CLD-4551 x AVB x Regular Arm Mounted	689	SD
2 Kick Plate	K0050 10" x 1" LDW x B4E-HEAVY x CSK	630	TR
2 Convex Wall Stop	1270CX	626	TR
1 Door Position Switch	MC7		DM

NOTE: Furnished by Section 281300 Access Control Supplier.

1 Header Smoke Seals	5075B x LAR x header		NA
1 Meeting Stile Astragal Gasket	5075B x LAR		NA
2 Jamb Smoke Seals	5075B x LAR x jambs		NA

NOTE: Networked wireless lock with door monitoring. Presentation of a valid credential momentarily unlocks the outside lever for entry. Door position switch monitors the door condition as open or closed.

### SET #63

Doors: F105A

3 Hinges	CB168 4 1/2 X 4 1/2	US26D	ST
1 Passage Set	9K3-0N15D S3	626	BE

1 Door Closer	CLD-4551 CS AVB	689	SD
1 Kick Plate	K0050 10" x 2" LDW x B4-HEAVY x CSK	630	TR

**SET #64**

Doors: F121A, C215, C216

6 Hinges	CB179 4 1/2 X 4 1/2	US26D	ST
2 Set Dummy Trim	9K-02DT15D	626	BE
2 Convex Wall Stop	1270CX	626	TR
2 Magnetic Catch	810	603	TR
2 Door Silencers	1229A	GREY	TR

**SET #65**

Doors: H109, H110, B227A, B227B, B228A, B228B

3 Hinges	CB168 4 1/2 X 4 1/2 NRP	US26D	ST
1 Exit Device	3RO 2108 LD S988	630	PR
1 E-Plex Wireless Exit Trim	E79N10E35L-BF200	626	

KABA

NOTE: Furnished by Section 281300 Access Control Supplier.

1 Cormax Core	1CM-7 x factory combined	626	BE
1 Door Closer	CLD-4551 EDA P45HD-110 P45HD-112	689	SD
1 Kick Plate	K0050 10" x 2" LDW x B4-HEAVY x CSK	630	TR
1 Convex Wall Stop	1270CX	626	TR
1 Door Position Switch	MC7		DM

NOTE: Furnished by Section 281300 Access Control Supplier.

NOTE: Networked wireless exit device trim with door monitoring. Presentation of a valid credential momentarily unlocks the outside lever for entry. Door position switch monitors the door condition as open or closed. Perimeter frame gasketing by the Aluminum Frame Manufacturer.

**SET #66**

Doors: F227A, J236D

1 Continuous Hinge	661HD x UL x factory cut to length as req.	AL	ST
1 E-Plex Wireless Lock	E79N1031LLBF20	626	

KABA

NOTE: Furnished by Section 281300 Access Control Supplier.

1 Cormax Core	1CM-7 x factory combined	626	BE
1 Door Closer	CLD-4551 CS AVB	689	SD
1 Kick Plate	K0050 10" x 2" LDW x B4-HEAVY x CSK	630	TR
1 Door Position Switch	MC7		DM

NOTE: Furnished by Section 281300 Access Control Supplier.

1 Drip Cap	16 A - 4" ODW		NA
1 Weatherstrip	700SA x head x jambs x LAR		NA
1 Door Sweep	C699A x LAR		NA
1 Threshold	8135S x LAR x 10-24 SSMS/LA	AL	NA

NOTE: Networked wireless lock with door monitoring. Presentation of a valid credential momentarily unlocks the outside lever for entry. Door position switch monitors the door condition as open or closed.

**SET #67**

Doors: G105, G108, J108, J111

1 Continuous Hinge	661HD x UL x factory cut to length as req.	AL	ST
1 Passage Set	9K3-0N15D S3	626	BE
1 Door Closer	CLD-4551 x AVB x Regular Arm Mounted	689	SD
1 Kick Plate	K0050 10" x 2" LDW x B4-HEAVY x CSK	630	TR
1 Convex Wall Stop	1270CX	626	TR
2 Jamb Smoke Seals	5075B x LAR x jambs		NA
1 Header Smoke Seals	5075B x LAR x header		NA

**SET #68**

Doors: G106, J107, J112

3 Hinges	CB168 4 1/2 X 4 1/2	US26D	ST
1 Privacy Set	9K3-0L15D S3	626	BE
1 Door Closer	CLD-4551 x AVB x Regular Arm Mounted	689	SD
1 Kick Plate	K0050 10" x 2" LDW x B4-HEAVY x CSK	630	TR
1 Concave Wall Stop	1270CV	626	TR
2 Jamb Smoke Seals	5075B x LAR x jambs		NA
1 Header Smoke Seals	5075B x LAR x header		NA

**SET #69**

Doors: G114, G125, J122, J142A

1 Continuous Hinge	661HD x UL x EPT x factory cut to length as req.	AL	ST
1 Exit Device	3RO C MLR 2103 CA-03	630	PR
1 Rim Cylinder	12E-72 PATD CORMAX PATENTED KEYING	626	BE
1 Flush Pull	1111B 4 Torx Screws	630	TR
1 Door Closer	CLD-4551 EDA AVB	689	SD
1 Kick Plate	K0050 10" x 2" LDW x B4-HEAVY x CSK	630	TR
1 Convex Wall Stop	1270CX	626	TR
1 Power Transfer	EPT-12C		PR

NOTE: Offset installation templating as required on Aluminum Doors.

1 Door Position Switch	MC7		DM
	NOTE: Furnished by Section 281300 Access Control Supplier.		
1 Wire Harness	WH-XX x coordinate with door for LAR		ST
1 Wire Harness	WH-192P		ST
1 Power Supply	RPSMLR2		PR
3 Door Silencers	1229A	GREY	TR
1 Wall or Mullion Card Reader	K-SMART3 13.56 MHz High Freq. Reader		

KABA

NOTE: Furnished by Section 281300 Access Control Supplier.

NOTE: These doors are normally secured and can be dogged open individually by the access control system. Card Reader, Controller, Software and Infrastructure to be furnished by the Access Control Provider. Free egress at all times. Presentation of a valid credential retracts the exit device latch on the primary leaf so the door can be pulled open. Door position switch is to monitor the door open or closed status.

**SET #70**

Doors: H122, J115, J117

3 Hinges	CB168 4 1/2 X 4 1/2	US26D	ST
1 Privacy Set	9K3-0L15D S3	626	BE
1 Door Closer	CLD-4551 EDA AVB	689	SD
1 Kick Plate	K0050 10" x 2" LDW x B4-HEAVY x CSK	630	TR
1 Convex Wall Stop	1270CX	626	TR
3 Door Silencers	1229A	GREY	TR

**SET #71**

Doors: J102, J105, J137A, J137B, J137C

6 Hinges	CB168 4 1/2 X 4 1/2 NRP	US26D	ST
1 Dustproof Strike	3911	630	TR
1 Set Auto Flush Bolts	3815L X 3815L	630	TR
1 E-Plex Wireless Lock	E79N1031LLBF20	626	

KABA

NOTE: Furnished by Section 281300 Access Control Supplier.

1 Cormax Core	1CM-7 x factory combined	626	BE
1 Coordinator	3092	BLACK	TR
2 Door Closer	CLD-4551 EDA AVB	689	SD
2 Kick Plate	K0050 10" x 1" LDW x B4E-HEAVY x CSK	630	TR
2 Convex Wall Stop	1270CX	626	TR
1 Door Position Switch	MC7		DM

NOTE: Furnished by Section 281300 Access Control Supplier.

1 Meeting Stile Smoke Seal	5070B x LAR		NA
2 Jamb Smoke Seals	5075B x LAR x jambs		NA
1 Header Smoke Seals	5075B x LAR x header		NA

NOTE: Networked wireless lock with door monitoring. Presentation of a valid credential momentarily unlocks the outside lever for entry. Door position switch monitors the door condition as open or closed.

**SET #72**

Doors: J119

1 Continuous Hinge	661HD x UL x factory cut to length as req.	AL	ST
1 Continuous Hinge	661HD x UL x EPT x factory cut to length as req.	AL	ST
1 Exit Device	3RO C MLR 2203 CA-03 LBR	630	PR
1 Exit Device	3RO 2201 LBR	630	PR
1 Rim Cylinder	12E-72 PATD CORMAX PATENTED KEYING	626	BE
1 Door Pull	1191-4 x N x door thickness as required	630	TR
2 Door Closer	CLD-4551 CS AVB	689	SD

2 Kick Plate	K0050 10" x 1" LDW x B4E-HEAVY x CSK	630	TR
2 Door Position Switch	MC7		DM
	NOTE: Furnished by Section 281300 Access Control Supplier.		
1 Wire Harness	WH-XX x coordinate with door for LAR		ST
1 Wire Harness	WH-192P		ST
1 Power Supply	RPSMLR2		PR
1 Power Transfer	EPT-12C		PR
	NOTE: Offset installation templating as required on Aluminum Doors.		
1 Wall or Mullion Card Reader	K-SMART3 13.56 MHz High Freq. Reader		
KABA			
	NOTE: Furnished by Section 281300 Access Control Supplier.		
1 Meeting Stile Astragal Gasket	5075B x LAR		NA
1 Astragal Set	9605A (SET) x LAR		NA
1 Weatherstrip	700SA x head x jambs x LAR		NA
1 Drip Cap	16 A - 4" ODW		NA
2 Door Sweep	C699A x LAR		NA
1 Saddle Threshold	425 x LAR x 10-24 SSMS/LA	AL	NA

NOTE: These exterior doors are normally secured and the active leaf can be dogged open individually by the access control system. Card Reader, Controller, Software and Infrastructure to be furnished by the Access Control Provider. Free egress at all times. Presentation of a valid credential retracts the exit device latch on the primary leaf so the door can be pulled open. Door position switch is to monitor the door open or closed status.

### SET #73

Doors: J141A

1 Continuous Hinge	661HD x UL x factory cut to length as req.	AL	ST
1 Dummy Bar	671DR x size as required	630	PR
1 Flush Pull	1111B 4 Torx Screws	630	TR
1 Door Closer	CLD-4551 EDA AVB	689	SD
1 Kick Plate	K0050 10" x 2" LDW x B4-HEAVY x CSK	630	TR
1 Convex Wall Stop	1270CX	626	TR
3 Door Silencers	1229A	GREY	TR

### SET #74

Doors: J132A, J140

1 Continuous Hinge	661HD x UL x factory cut to length as req.	AL	ST
1 E-Plex Wireless Exit Trim	E79N10E35L-BF200	626	
KABA			
	NOTE: Furnished by Section 281300 Access Control Supplier.		
1 Cormax Core	1CM-7 x factory combined	626	BE
1 Door Closer	CLD-4551 x AVB x Regular Arm Mounted	689	SD
1 Kick Plate	K0050 10" x 2" LDW x B4-HEAVY x CSK	630	TR
1 Convex Wall Stop	1270CX	626	TR
1 Door Position Switch	MC7		DM
	NOTE: Furnished by Section 281300 Access Control Supplier.		
3 Door Silencers	1229A	GREY	TR

**SET #75**

Doors: J136A

1	Continuous Hinge	661HD x UL x EPT x factory cut to length as req.	AL	ST
1	Continuous Hinge	661HD x UL x factory cut to length as req.	AL	ST
1	Exit Device	3RO 2201 LBR	630	PR
1	Exit Device	3RO C MLR 2203 CA-03 LBR	630	PR
2	Exit Dev.Offset Channel Filler	73116277S or 73118520S as required	BK	PRCI
1	Flush Pull	1111B 4 Torx Screws	630	TR
1	Rim Cylinder	12E-72 PATD CORMAX PATENTED KEYING	626	BE
2	Door Closer	CLD-4551 CS AVB P45HD-110 P45HD-112	689	SD
2	Kick Plate	K0050 10" x 1" LDW x B4E-HEAVY x CSK	630	TR
2	Door Position Switch	MC7		DM
NOTE: Furnished by Section 281300 Access Control Supplier.				
1	Wire Harness	WH-XX x coordinate with door for LAR		ST
1	Wire Harness	WH-192P		ST
1	Power Supply	RPSMLR2		PR
1	Power Transfer	EPT-12C		PR
NOTE: Offset installation templating as required on Aluminum Doors.				
2	Door Silencers	1229A	GREY	TR
1	Wall or Mullion Card Reader	K-SMART3 13.56 MHz High Freq. Reader		

KABA

NOTE: Furnished by Section 281300 Access Control Supplier.

NOTE: These doors are normally secured and the active leaf can be dogged open individually by the access control system. Card Reader, Controller, Software and Infrastructure to be furnished by the Access Control Provider. Free egress at all times. Presentation of a valid credential retracts the exit device latch on the primary leaf so the door can be pulled open. Door position switch is to monitor the door open or closed status.

**SET #76**

Doors: FREEZER

1	Electromagnetic Lock	BML-8380 x brackets as required		BE
1	Armored Flex Conduit	3218	630	DM
1	Emergency Exit But.	EEB2		SN
1	Power Supply	PS532RF KL MR RB12V7 (QTY. OF 2)		DM
1	ElectroMechanical Bar	WEMB-CL x LAR		SN
1	Wall or Mullion Card Reader	K-SMART3 13.56 MHz High Freq. Reader		

KABA

NOTE: Furnished by Section 281300 Access Control Supplier.				
1	Door Position Switch	as required		DM
NOTE: Furnished by Section 281300 Access Control Supplier.				

NOTE: This hardware is to be installed on the kitchen cooler door. Power supply to be wired to the fire alarm system to release in an alarmed condition. Presentation of a valid credential momentarily drops the power to the magnetic lock allowing entry. Free egress by the ElectroMechanical Bar or the Exit Button. Card Reader, Controller, Software and Infrastructure to be furnished by the Access Control

Provider. Door position switch is to monitor the door open or closed status. This hardware will be installed at or slightly above freezing temperatures.

**SET #77**

Doors: PED-GATE

4	SureClose HD Gate	Coordinate with gate manuf.	626	
D&DT	Hinge/Closer			
2	Weatherized Rim Exit Device	10 x W x LD x coordinate with E-PLEX TRIM	630	DE
1	E-Plex Wireless Exit Trim	E79N10E35L-BF200	626	
KABA				
		NOTE: Furnished by Section 281300 Access Control Supplier.		
1	Cormax Core	1CM-7 x factory combined	626	BE

NOTE: Balance of hardware to be furnished by the gate manufacturer. Coordinate all hardware with the gate manufacturer. Install a bead of clear silicone caulk around the E-PLEX trim and gate surface for added weather resistance. Free egress at all times. Presentation of a valid card/pin unlocks the outside lever for ingress. Outside key override is available for ingress if needed.

**SET #78**

Doors: VEH-GATE

NOTE: All Gate hardware to be furnished by the Gate Manufacturer for the Vehicular Gate.

**SET #79**

Doors: MISC

2	Wall or Mullion Card Reader	K-SMART3 13.56 MHz High Freq. Reader		
KABA				
		NOTE: Furnished by Section 281300 Access Control Supplier.		
8	E-Plex Wireless Lock	E79N1031LLBF20	626	
KABA				
		NOTE: Furnished by Section 281300 Access Control Supplier.		
2	E-Plex Wireless Exit Trim	E79N10E35L-BF200	626	
KABA				
		NOTE: Furnished by Section 281300 Access Control Supplier.		
8	Door Position Switch	MC7		DM
		NOTE: Furnished by Section 281300 Access Control Supplier.		

NOTE: The above items are Shelf Stock to be turned over to the owner following Certificate of Occupancy.



**SET #80**

Doors: SYSTEM

- 2 MiFare Programming Card 118-515912MIF  
KABA  
NOTE: Furnished by Section 281300 Access Control Supplier.
- 1 Software  
KABA  
KEYSCAN AURORA  
NOTE: Furnished by Section 281300 Access Control Supplier.
- 1 Enhanced Lockdown Feature EAUR-911  
KABA  
NOTE: Furnished by Section 281300 Access Control Supplier.
- ROUTERS  
KABA  
as required  
NOTE: Furnished by Section 281300 Access Control Supplier.
- GATEWAYS  
KABA  
as required  
NOTE: Furnished by Section 281300 Access Control Supplier.
- 200 K-Secure 1K Keyscan Cards  
KABA  
NOTE: Furnished by Section 281300 Access Control Supplier.

NOTE: System Equipment. Furnish and install Gateways and Routers as needed to provide required signal strength (refer to Low Voltage Drawings for approximate locations). Power is to be furnished for Gateways and Routers by the Electrical Contractor. Network drop is needed for each Gateway.

END OF SECTION 087100