

REG ARCHITECTS INC
 VILLAGE HALL OF ROYAL PALM BEACH
 PROJECT #19024

TABLE OF CONTENTS

DIVISION 01 – GENERAL REQUIREMENTS

| <u>SECTION</u> | <u>TITLE</u> | <u>DATE</u> | <u>REVISIONS</u> |
|----------------|-------------------------------------|-------------|------------------|
| 011000 | Summary | 04/26/21 | |
| 012500 | Substitution Procedures | 04/26/21 | |
| 012600 | Contract Modification Procedures | 04/26/21 | |
| 012900 | Payment Procedures | 04/26/21 | |
| 013100 | Project Management and Coordination | 04/26/21 | |
| 013200 | Construction Progress Documentation | 04/26/21 | |
| 013300 | Submittal Procedures | 04/26/21 | |
| 014000 | Quality Requirements | 04/26/21 | |
| 015000 | Temporary Facilities and Controls | 04/26/21 | |
| 016000 | Product Requirements | 04/26/21 | |
| 017300 | Execution | 04/26/21 | |
| 017700 | Closeout Procedures | 04/26/21 | |
| 017839 | Operations and Maintenance Data | 04/26/21 | |
| 017900 | Project Record Documents | 04/26/21 | |
| 011000 | Demonstration and Training | 04/26/21 | |

DIVISION 02 – EXISTING CONDITIONS

| <u>SECTION</u> | <u>TITLE</u> | <u>DATE</u> | <u>REVISIONS</u> |
|----------------|----------------------|-------------|------------------|
| 024116 | Structure Demolition | 04/26/21 | |

DIVISION 03 – CONCRETE

| <u>SECTION</u> | <u>TITLE</u> | <u>DATE</u> | <u>REVISIONS</u> |
|----------------|------------------------|-------------|------------------|
| 031000 | Concrete Formwork | 04/26/21 | |
| 032000 | Concrete Reinforcing | 04/26/21 | |
| 033000 | Cast-in-Place Concrete | 04/26/21 | 06/14/21 |

DIVISION 04 – MASONRY

| <u>SECTION</u> | <u>TITLE</u> | <u>DATE</u> | <u>REVISIONS</u> |
|----------------|-----------------------|-------------|------------------|
| 042200 | Concrete Unit Masonry | 04/26/21 | 06/14/21 |
| 047200 | Cast Stone Masonry | 04/26/21 | |

DIVISION 05 – METALS

| <u>SECTION</u> | <u>TITLE</u> | <u>DATE</u> | <u>REVISIONS</u> |
|----------------|--|-------------|------------------|
| 051200 | Structural Steel Framing | 04/26/21 | 06/14/21 |
| 053100 | Steel Decking | 04/26/21 | 06/14/21 |
| 054100 | Light Gauge Steel Framing and Prefab Steel Trusses | 04/26/21 | |
| 055000 | Metal Fabrications | 04/26/21 | |
| 057300 | Decorative Metal Railings | 04/26/21 | |
| 057313 | Glazed Decorative Metal Railings | 04/26/21 | |

DIVISION 06 – WOOD, PLASTIC, AND COMPOSITES

| <u>SECTION</u> | <u>TITLE</u> | <u>DATE</u> | <u>REVISIONS</u> |
|----------------|-------------------------------|-------------|------------------|
| 061053 | Miscellaneous Rough Carpentry | 04/26/21 | |
| 061600 | Sheathing | 04/26/21 | |

REG ARCHITECTS INC
 VILLAGE HALL OF ROYAL PALM BEACH
 PROJECT #19024

064116 Plastic Laminate-Clad Architectural Cabinets 04/26/21
 Note: for architectural woodwork elements, refer to FF&E Specifications Booklet

DIVISION 07 – THERMAL AND MOIOSTURE PROTECTION

| <u>SECTION</u> | <u>TITLE</u> | <u>DATE</u> | <u>REVISIONS</u> |
|----------------|---------------------------------------|-------------|------------------|
| 071613 | Polymer Modified Cement Waterproofing | 04/26/21 | |
| 071700 | Bentonite Waterproofing | 04/26/21 | |
| 071900 | Water Repellents | 04/26/21 | |
| 072100 | Thermal Insulation | 04/26/21 | |
| 072119 | Foamed-in-Place Insulation | 04/26/21 | |
| 074113.16 | Standing Seam Metal Roof Panels | 04/26/21 | |
| 077100 | Gutters and Downspouts | 04/26/21 | |
| 078413 | Penetration Firestopping | 04/26/21 | |
| 078443 | Joint Firestopping | 04/26/21 | |
| 079200 | Joint Sealants | 04/26/21 | |
| 079219 | Acoustical Joint Sealants | 04/26/21 | |

DIVISION 08 – OPENINGS

| <u>SECTION</u> | <u>TITLE</u> | <u>DATE</u> | <u>REVISIONS</u> |
|----------------|--|-------------|------------------|
| 081113 | Hollow Metal Doors and Frames | 04/26/21 | |
| 081416 | Flush Wood Doors | 04/26/21 | |
| 081433 | Stile and Rail Wood Doors | 04/26/21 | |
| 083113 | Access Doors and Frames | 04/26/21 | |
| 084113 | Aluminum-Framed Entrances and Storefront | 04/26/21 | |
| 084413 | Glazed Aluminum Curtain Walls | 04/26/21 | |
| 087100 | Door Hardware | 04/26/21 | 06/14/21 |
| 088000 | Glazing | 04/26/21 | |
| 089119 | Fixed Louvers | 04/26/21 | |

DIVISION 09 – FINISHES

| <u>SECTION</u> | <u>TITLE</u> | <u>DATE</u> | <u>REVISIONS</u> |
|----------------|------------------------------|-------------|------------------|
| 092216 | Non-Structural Metal Framing | 04/26/21 | |
| 092400 | Cement Plastering | 04/26/21 | |
| 092900 | Gypsum Board | 04/26/21 | |
| 096900 | Access Flooring | 04/26/21 | |
| 099113 | Exterior Painting | 04/26/21 | |
| 099123 | Interior Painting | 04/26/21 | |

Note: for other finishes, refer to FF&E Specifications Booklet

DIVISION 10 – SPECIALTIES

| <u>SECTION</u> | <u>TITLE</u> | <u>DATE</u> | <u>REVISIONS</u> |
|----------------|-----------------------------------|-------------|------------------|
| 101419 | Dimensional Letter Signage | 04/26/21 | |
| 101423 | Panel Signage | 04/26/21 | |
| 101423.16 | Room-Identification Panel Signage | 04/26/21 | |
| 102239.13 | Folding Glass-Panel Partitions | 04/26/21 | |
| 104413 | Fire Protection Cabinets | 04/26/21 | |
| 104416 | Fire Extinguishers | 04/26/21 | |

DIVISION 11 – EQUIPMENT (not used)

REG ARCHITECTS INC
 VILLAGE HALL OF ROYAL PALM BEACH
 PROJECT #19024

DIVISION 12 – FURNISHINGS (not used)

DIVISION 13 – SPECIAL CONSTRUCTION (not used)

DIVISION 14 – CONVEYING EQUIPMENT

| <u>SECTION</u> | <u>TITLE</u> | <u>DATE</u> | <u>REVISIONS</u> |
|----------------|---------------------|-------------|------------------|
| 142400 | Hydraulic Elevators | 04/26/21 | |

DIVISION 21 – FIRE SUPPRESSION

| <u>SECTION</u> | <u>TITLE</u> | <u>DATE</u> | <u>REVISIONS</u> |
|----------------|--|-------------|------------------|
| 210513 | Common Motor Requirements for Fire Suppression | 04/26/21 | |
| 210517 | Sleeves and Sleeve Seals for Fire Suppression Piping | 04/26/21 | |
| 210518 | Escutcheons for Fire Suppression Piping | 04/26/21 | |
| 210523 | General-Duty Valves for Water Based Fire Suppression | 04/26/21 | |
| 210529 | Hangers and Supports for Fire Suppression Piping | 04/26/21 | |
| 210553 | Identification for Fire Suppression Piping | 04/26/21 | |
| 210700 | Fire Suppression Systems Insulation | 04/26/21 | 06/14/21 |
| 211313 | Wet Pipe Sprinkler Systems | 04/26/21 | |
| 212200 | Clean Agent Fire Extinguishing Systems | 04/26/21 | |

DIVISION 22 – PLUMBING

| <u>SECTION</u> | <u>TITLE</u> | <u>DATE</u> | <u>REVISIONS</u> |
|----------------|--|-------------|------------------|
| 220513 | Common Motor Requirements for Plumbing Equip | 04/26/21 | |
| 220516 | Expansion Fittings and Loops for Plumbing Piping | 04/26/21 | |
| 220517 | Sleeves and Sleeve Seals for Plumbing Piping | 04/26/21 | |
| 220518 | Escutcheons for Plumbing Piping | 04/26/21 | |
| 220519 | Meters and Gages for Plumbing Piping | 04/26/21 | |
| 220523.12 | Ball Valves for Plumbing Piping | 04/26/21 | |
| 220523.14 | Check Valves for Plumbing Piping | 04/26/21 | |
| 220523.15 | Gate Valves for Plumbing Piping | 04/26/21 | |
| 220529 | Hangers and Supports for Plumbing Piping and Equip | 04/26/21 | |
| 220553 | Identification for Plumbing Piping and Equipment | 04/26/21 | |
| 220719 | Plumbing Piping Insulation | 04/26/21 | 06/14/21 |
| 220800 | Commissioning of Plumbing | 04/26/21 | |
| 221116 | Domestic Water Piping | 04/26/21 | |
| 221119 | Domestic Water Piping Specialties | 04/26/21 | |
| 221123.21 | Inline, Domestic Water Pumps | 04/26/21 | |
| 221316 | Sanitary Waste and Vent Piping | 04/26/21 | |
| 221319 | Sanitary Waste Piping Specialties | 04/26/21 | |
| 221319.13 | Sanitary Drains | 04/26/21 | |
| 221429 | Sump Pumps | 04/26/21 | |
| 223300 | Electric, Domestic Water Heaters | 04/26/21 | |
| 224000 | Plumbing Fixtures | 04/26/21 | |

DIVISION 23 – HEATING, VENTILATING, AND AIR CONDITIONING

| <u>SECTION</u> | <u>TITLE</u> | <u>DATE</u> | <u>REVISIONS</u> |
|----------------|--|-------------|------------------|
| 230010 | Basic Mechanical Requirements | 04/26/21 | |
| 230513 | Common Motor Requirements for HVAC Equipment | 04/26/21 | |
| 230517 | Sleeves and Sleeve Seals for HVAC Piping | 04/26/21 | |
| 230548 | Vibration and Seismic Controls for HVAC Piping | 04/26/21 | |

REG ARCHITECTS INC
 VILLAGE HALL OF ROYAL PALM BEACH
 PROJECT #19024

| | | |
|-----------|--|----------|
| 230553 | Identification for HVAC Piping and Equipment | 04/26/21 |
| 230593 | Testing, Adjusting, and Balancing for HVAC | 04/26/21 |
| 230713 | Duct Insulation | 04/26/21 |
| 230800 | Commissioning for HVAC | 04/26/21 |
| 230923 | Direct Digital Control (DDC) System for HVAC | 04/26/21 |
| 233113 | Metal Ducts | 04/26/21 |
| 233300 | Air Duct Accessories | 04/26/21 |
| 233600 | Air Terminal Units | 04/26/21 |
| 233713 | Diffusers, Registers, and Grilles | 04/26/21 |
| 237313.13 | Indoor, Basic Air-Handling Units | 04/26/21 |
| 238126 | Split-System Air-Conditioners | 04/26/21 |

06/14/21

DIVISION 26 – ELECTRICAL

| <u>SECTION</u> | <u>TITLE</u> | <u>DATE</u> | <u>REVISIONS</u> |
|----------------|--|-------------|------------------|
| 260010 | Basic Electrical Requirements | 04/26/21 | |
| 260519 | Low Voltage Electrical Power Conductors and Cables | 04/26/21 | |
| 260526 | Grounding and Bonding for Electrical Systems | 04/26/21 | |
| 260529 | Hangers and Supports for Electrical Systems | 04/26/21 | |
| 260533 | Raceway and Boxes for Electrical Systems | 04/26/21 | |
| 260544 | Sleeves and Sleeve Seals for Electrical Raceway | 04/26/21 | |
| 260553 | Identification for Electrical Systems | 04/26/21 | |
| 260573.13 | Short Circuit Studies | 04/26/21 | |
| 260573.16 | Coordination Studies | 04/26/21 | |
| 260573.19 | Arc-Flash Hazard Analysis | 04/26/21 | |
| 260923 | Lighting Control Devices | 04/26/21 | |
| 262416 | Panelboards | 04/26/21 | |
| 262726 | Wiring Devices | 04/26/21 | |
| 262816 | Enclosed Switches and Circuit Breakers | 04/26/21 | |
| 263213.16 | Gaseous Emergency Engine Generators | 04/26/21 | |
| 263600 | Transfer Switches | 04/26/21 | |
| 264113 | Lightning Protection for Structures | 04/26/21 | |
| 264313 | Surge Protection for Low Voltage Electrical Power | 04/26/21 | |
| 265119 | LED Interior Lighting | 04/26/21 | |
| 265213 | Emergency and Exit Lighting | 04/26/21 | |
| 265619 | LED Exterior Lighting | 04/26/21 | |

DIVISION 27 – COMMUNICATIONS

| <u>SECTION</u> | <u>TITLE</u> | <u>DATE</u> | <u>REVISIONS</u> |
|----------------|---|-------------|------------------|
| 270010 | Technology General Provisions | 04/26/21 | |
| 270526 | Grounding and Bonding for Telecom Systems | 04/26/21 | |
| 270528 | Raceways for Technology | 04/26/21 | |
| 271000 | Structured Cabling System | 04/26/21 | |
| 274100 | Audio Visual System | 04/26/21 | |

DIVISION 28 – ELECTRONIC SAFETY AND SECURITY

| <u>SECTION</u> | <u>TITLE</u> | <u>DATE</u> | <u>REVISIONS</u> |
|----------------|---|-------------|------------------|
| 280537 | Security Voice Communications -Distributed Antenna | 04/26/21 | |
| 281000 | Electronic Security Systems | 04/26/21 | |
| 281010 | Intrusion Detection Systems | 04/26/21 | |
| 282000 | Closed Circuit Television-Video Surveillance System | 04/26/21 | |

REG ARCHITECTS INC
VILLAGE HALL OF ROYAL PALM BEACH
PROJECT #19024

283111 Addressable Fire-Alarm Systems 04/26/21

DIVISION 31 – EARTHWORK

| <u>SECTION</u> | <u>TITLE</u> | <u>DATE</u> | <u>REVISIONS</u> |
|----------------|-----------------|-------------|------------------|
| 313116 | Termite Control | 04/26/21 | |

Note: for other earthwork elements, refer to Civil Drawings

DIVISION 32 – EXTERIOR IMPROVEMENTS (not used)

Note: for exterior improvements, refer to Civil, Landscape, and Hardscape Drawings

DIVISION 33 – UTILITIES (not used)

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 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:

- 1. Mechanical door hardware for the following:
 - a. Swinging doors.
 - b. Sliding doors.
 - c. Folding doors.
- 2. Cylinders for door hardware specified in other Sections.
- 3. Electrified door hardware.

- B. Related Requirements:

- 1. Section 081113 "Hollow Metal Doors and Frames".
- 2. Section 081433 "Stile and Rail Wood Doors".

- C. Keying Conference: Conduct conference at Project Site with Owner to discuss owner requirements.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.

- B. Shop Drawings: For electrified door hardware.

- 1. Include diagrams for power, signal, and control wiring.
- 2. Include details of interface of electrified door hardware and building safety and security systems.

- C. Samples: For each exposed product in each finish specified.

- D. Door hardware schedule.

- E. Keying schedule.

REG ARCHITECTS INC
VILLAGE HALL OF ROYAL PALM BEACH
PROJECT #19024

1.4 INFORMATIONAL SUBMITTALS

- A. Sample warranty.

1.5 CLOSEOUT SUBMITTALS

- A. Maintenance data.

1.6 QUALITY ASSURANCE

- A. Installer Qualifications: Supplier of products and an employer of workers trained and approved by product manufacturers and of an Architectural Hardware Consultant who is available during the course of the Work to consult Contractor, Architect, and Owner about door hardware and keying.
 - 1. Scheduling Responsibility: Preparation of door hardware and keying schedule.
- B. Architectural Hardware Consultant Qualifications: A person who is experienced in providing consulting services for door hardware installations that are comparable in material, design, and extent to that indicated for this Project and who is currently certified by DHI as an Architectural Hardware Consultant (AHC) and an Electrified Hardware Consultant (EHC)

1.7 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within specified warranty period.
 - 1. Warranty Period: Minimum 5 years from date of Substantial Completion.
 - 2. Includes coverage of locksets, closers, exit devices, hinges and all other items listed in the hardware schedule.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Fire-Rated Door Assemblies: Where fire-rated doors are indicated, provide door hardware complying with NFPA 80 that is listed and labeled by a qualified testing agency, for fire-protection ratings indicated, based on testing at positive pressure in accordance with NFPA 252 or UL 10C.
- B. Smoke- and Draft-Control Door Assemblies: Where smoke- and draft-control door assemblies are required, provide door hardware that complies with requirements of assemblies tested in accordance with UL 1784 and installed in compliance with NFPA 105.
- C. Electrified Door Hardware: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

REG ARCHITECTS INC
VILLAGE HALL OF ROYAL PALM BEACH
PROJECT #19024

- D. Means of Egress Doors: Latches do not require more than 15 lbf (67 N) to release the latch. Locks do not require use of a key, tool, or special knowledge for operation.
- E. Accessibility Requirements: For door hardware on doors in an accessible route, comply with Florida Accessibility Code, 7th edition, 2020.
- F. Hardware for exterior door assemblies shall be subject to compliance with State of Florida or Miami Dade County Product Approvals for the specific door selected.

2.2 HINGES

- A. Hinges: BHMA A156.1. Provide template-produced hinges for hinges installed on hollow-metal doors and hollow-metal frames.
 - 1. Designation: HN-2
 - 2. Manufacturer: Hager
 - 3. Series/Model: BB1279
 - 4. Size: 4-1/2 inches by 4-1/2 inches.
 - 5. Finish: US32D.
 - 6. Quantities: provide four hinges per leaf.

 - 7. Designation: HN-3
 - 8. Manufacturer: Hager
 - 9. Series/Model: BB1279-NRP
 - 10. Size: 4-1/2 inches by 4-1/2 inches.
 - 11. Finish: US32D.
 - 12. Quantities: provide four hinges per leaf.

2.3 MECHANICAL LOCKS AND LATCHES

- A. Lock Functions: As indicated in this section.
- B. Lock Throw: Comply with testing requirements for length of bolts required for labeled fire doors, and as follows:
 - 1. Bored Locks: Minimum 1/2-inch (13-mm) latchbolt throw.
 - 2. Mortise Locks: Minimum 3/4-inch (19-mm) latchbolt throw.
 - 3. Deadbolts: Minimum [1-inch (25-mm)] [1.25-inch (32-mm)] <Insert dimension> bolt throw.
- C. Lock Backset: 2-3/4 inches (70 mm) unless otherwise indicated.
- D. Strikes: Provide manufacturer's standard strike for each lock bolt or latchbolt complying with requirements indicated for applicable lock or latch and with strike box and curved lip extended to protect frame; finished to match lock or latch.
- E. Bored Locks: BHMA A156.2; Grade 1.

1. Designation: LK-1
2. Function: Storeroom
3. Manufacturer: Schlage
4. Series/Model: ND80PD
5. Lever Trim: Boardwalk - BWK
6. Finish: US15

7. Designation: LK-2
8. Function: Office/Entry
9. Manufacturer: Schlage
10. Series/Model: ND50PD
11. Lever Trim: Boardwalk - BWK
12. Finish: US15

13. Designation: LK-3
14. Function: Passage
15. Manufacturer: Schlage
16. Series/Model: ND10S
17. Lever Trim: Boardwalk - BWK
18. Finish: US15

19. Designation: LK-4
20. Function: Privacy
21. Manufacturer: Schlage
22. Series/Model: ND40S
23. Lever Trim: Boardwalk - BWK
24. Finish: US15

25. Designation: LK-5
26. Function: Institution
27. Manufacturer: Schlage
28. Series/Model: ND82PD
29. Lever Trim: Boardwalk - BWK
30. Finish: US15

31. Designation: LK-6
32. Function: Passage
33. Manufacturer: Schlage
34. Series/Model: ND10S
35. Lever Trim: Rhodes - RHO
36. Finish: US26D

F. Mortise Locks: BHMA A156.13; Operational Grade 1 stamped steel case with steel or brass parts.

1. Designation: LK-7
2. Function: Entrance (F20)
3. Manufacturer: Schlage
4. Series/Model: L9453P with security collar

5. Lever Trim: 06
6. Finish: US26D

2.4 ELECTRIC STRIKES

- A. Electric Strikes: BHMA A156.31; Grade 1; with faceplate to suit lock and frame.
1. Designation: ES-1
 2. Manufacturer: Assa Abloy
 3. Series/Model: HES 7501
 4. Finish: US32D.

2.5 SURFACE BOLTS

- A. Surface Bolts: BHMA A156.16.
1. Designation: SB-1
 2. Manufacturer: Ives
 3. Series/Model: SB360
 4. Finish: US2C

2.6 EXIT DEVICES AND AUXILIARY ITEMS

- A. Exit Devices and Auxiliary Items: BHMA A156.3.
1. Designation: RD-2
 2. Manufacturer: Von Duprin
 3. Series/Model: 98/99 Series
 4. Finish: US15
 5. Options: Provide manufacturer's standard electrified kit for exterior doors requiring access control.

2.7 KEY CYLINDERS

- A. Key Cylinders:
1. Designation: KC-1
 2. Tumbler type, constructed from brass or bronze, stainless steel, or nickel silver. Provide cylinder from same manufacturer of locking devices.
- B. Standard Key Cylinders: BHMA A156.5; Grade 1 permanent cores; face finished to match lockset.
1. Core Type: Interchangeable.
- C. Construction Cores: Provide construction cores that are replaceable by permanent cores. Provide 10 construction master keys.

REG ARCHITECTS INC
VILLAGE HALL OF ROYAL PALM BEACH
PROJECT #19024

2.8 KEYING

- A. Keying System: Factory registered, complying with guidelines in BHMA A156.28, appendix. Provide one extra key blank for each lock. Incorporate decisions made in keying conference.
- B. Use the system below as required by owner during keying conference.
 - 1. Master Key System: Change keys and a master key operate cylinders.
 - a. Provide three cylinder change keys and five master keys.

2.9 ACCESSORIES FOR PAIRS OF DOORS

- A. Coordinators: BHMA A156.3; consisting of active-leaf, hold-open lever and inactive-leaf release trigger; fabricated from steel with nylon-coated strike plates; with built-in, adjustable safety release.
- B. Astragals: BHMA A156.22.

2.10 SURFACE CLOSERS

- A. Surface Closers: BHMA A156.4; rack-and-pinion hydraulic type with adjustable sweep and latch speeds controlled by key-operated valves and forged-steel main arm. Comply with manufacturer's written instructions for size of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Provide factory-sized closers, adjustable to meet field conditions and requirements for opening force.
 - 1. Designation: CL-1
 - 2. Manufacturer: LCN
 - 3. Series/Model: 4111
 - 4. Arm Mounting: Regular, parallel (push side)
 - 5. Finish: Aluminum

2.11 MECHANICAL STOPS AND HOLDERS

- A. Wall- and Floor-Mounted Stops: BHMA A156.16.
 - 1. Designation: WS-1 (Wall)
 - 2. Manufacturer: Ives
 - 3. Series/Model: WS 406/407
 - 4. Finish: US26D
 - 5. Designation: FS-1 (Floor)
 - 6. Manufacturer: Ives
 - 7. Series/Model: FS436
 - 8. Finish: US26D

2.12 OVERHEAD STOPS AND HOLDERS

A. Overhead Stops and Holders: BHMA A156.8.

1. Designation: OS-1
2. Manufacturer: Glynn-Johnson
3. Series/Model: 450H
4. Finish: US26D

2.13 DOOR GASKETING

A. Door Gasketing: BHMA A156.22; with resilient or flexible seal strips that are easily replaceable and readily available from stocks maintained by manufacturer.

1. Designation: DG-1
2. Manufacturers: Pemko, National Guard Products, Zero International, or approved equal.
3. Series/Model: Manufacturer's standard replaceable component suitable for door and frame types.
4. Finish: As selected by Architect from manufacturer's standard available finish.

B. Maximum Air Leakage: When tested in accordance with ASTM E283 with tested pressure differential of 0.3-inch wg (75 Pa), as follows:

1. Smoke-Rated Gasketing: 0.3 cfm/sq. ft. (3 cu. m per minute/sq. m) of door opening.
2. Gasketing on Single Doors: 0.3 cfm/sq. ft. (3 cu. m per minute/sq. m) of door opening.
3. Gasketing on Double Doors: 0.50 cfm per ft. (0.000774 cu.) m/s per m) of door opening.

2.14 THRESHOLDS

A. Thresholds: BHMA A156.21; fabricated to full width of opening indicated.

1. Designation: TH-2
2. Manufacturer: National Guard Products
3. Series/Model: 950 Series
4. Size: 5 inches by 1/2 inch, ADA compliant.
5. Finish: Mill Aluminum

6. Designation: TH-3
7. Manufacturer: Pemko
8. Series/Model: 271 Series
9. Size: 5 inches by 1/4 inch, ADA compliant.
10. Finish: Mill Aluminum

2.15 PUSH-PULL UNITS

A. Push-Pull Units: BHMA A156.6; fabricated from 0.050-inch- (1.3-mm-) thick aluminum; with manufacturer's standard machine or self-tapping screw fasteners.

1. Designation: PP-1
2. Manufacturer: Ives
3. Series/Model: 8200/8302
4. Size: 8 inches by 16 inches.
5. Pull length: 10 inches center to center
6. Finish: US15

2.16 AUXILIARY DOOR HARDWARE

A. Door Silencers for use with metal frames: BHMA A156.16.

1. Designation: SR-1
2. Manufacturer: Hager
3. Series/Model: 307D
4. Finish: Grey

B. Door Bottom Shoe:

1. Designation: BS-1
2. Manufacturer: Hiawatha
3. Series/Model: DES-3C
4. Size: 1-1/4 inch by 1-3/4 inch
5. Finish: US32D

C. Security Viewer:

1. Designation: SV-1
2. Manufacturer: Hager
3. Series/Model: 1756 – 185 degrees
4. Finish: US32D
5. Location: Mount at 5'-0" AFF, center of door.

D. Deadbolt Occupancy Indicator:

1. Designation: DB-1
2. Manufacturer: Schlage
3. Series/Model: B571
4. Finish: US15
5. Location: Mount no more than 6" above lockset.

2.17 AUXILIARY ELECTRIFIED DOOR HARDWARE

A. Power Transfer Hinge:

1. Designation: PT-1
2. Manufacturer: Adams Rite
3. Series/Model: 4612
4. Finish: Manufacturer's standard

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Mounting Heights: Mount door hardware units at heights to comply with the following unless otherwise indicated or required to comply with governing regulations.
 - 1. Standard Steel Doors and Frames: ANSI/SDI A250.8.
 - 2. Custom Steel Doors and Frames: HMMA 831.
 - 3. Wood Doors: DHI's "Recommended Locations for Architectural Hardware for Wood Flush Doors."
- B. Install each door hardware item to comply with manufacturer's written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work. Do not install surface-mounted items until finishes have been completed on substrates involved.
- C. Hinges: Install types and in quantities indicated in door hardware schedule, but not fewer than the number recommended by manufacturer for application indicated or one hinge for every 30 inches (750 mm) of door height, whichever is more stringent, unless other equivalent means of support for door, such as spring hinges or pivots, are provided.
- D. Intermediate Offset Pivots: Where offset pivots are indicated, provide intermediate offset pivots in quantities indicated in door hardware schedule, but not fewer than one intermediate offset pivot per door and one additional intermediate offset pivot for every 30 inches (750 mm) of door height greater than 90 inches (2286 mm).
- E. Lock Cylinders: Install construction cores to secure building and areas during construction period.
 - 1. Replace construction cores with permanent cores as directed by Owner.
- F. Key Control Cabinet: Tag keys and place them on markers and hooks in key control system cabinet, as determined by final keying schedule.
- G. Power Supplies: Refer to Telecommunication Drawings for type and location of power supplies.
- H. Stops: Do not mount floor stops where they will impede traffic.
- I. Perimeter Gasketing: Apply to head and jamb, forming seal between door and frame.
 - 1. Do not notch perimeter gasketing to install other surface-applied hardware.
- J. Meeting Stile Gasketing: Fasten to meeting stiles, forming seal when doors are closed.
- K. Door Bottoms: Apply to bottom of door, forming seal with threshold when door is closed.

3.2 ADJUSTING

- A. Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

END OF SECTION 087100