



CITY OF PROVIDENCE

Jorge O. Elorza, Mayor

**Casino Repairs & Boathouse Renovations at Roger Williams Park**

**Addendum # 1**

**May 13, 2022**

**(30 Pages)**

*Acknowledge Addenda on Bid Form*

**\*\* BID DATE REMAINS – May 23, 2022\*\***

**Attachments:**

1. Addenda Cover Sheet (1 Page)
2. Pre-Bid Meeting Minutes (2 Pages)
3. Sign-in Sheet (1 Page)
4. Section 00 9111 – Clarifications (3 Pages)
5. Section 087100 – Revised (22 Pages)
6. Drawing A1.1 – Revised (1 Page)

**Questions/Clarifications:**

**See Attached**

**PROVIDENCE PARKS DEPARTMENT**

1000 Elmwood Avenue, Providence, Rhode Island 02907

Phone: 401-785-9450 | Fax: 401-941-5920

**[www.providenceri.gov](http://www.providenceri.gov)**





CITY OF PROVIDENCE

Jorge O. Elorza, Mayor

**Pre-Bid Meeting - Non-Mandatory**

**Date:** Monday, May 2, 2022 @ 1:00 PM - Site

**Project:** Casino Repairs / Boathouse Renovations

**Bid Due:** May 23, 2022 – City Clerk’s Office - Board of Contract Meeting

**Agenda:**

1. Bid Documents, Plans & Specifications - Issues
2. Funding – **Capital Improvement Plan (CIP) & RWPC**
  - a. Braided Funding – Only Requires One Invoice Copy
3. Bid Bond, Performance & Payment Bonds –**Required**
4. MBE/WBE Utilization – 10% MBE/10% WBE – Submit All Paperwork
  - a. No Sub-Contractors Utilized
    - i. Affidavit; Sub-Contractor (N/A) Disclosure and Waiver (N/A)
  - b. Sub-Contractors Utilized
    - i. Affidavit; Sub-Contractor and Request Waiver (%)
5. Retainage of 5% will be held from Pay Requests until project completion
  - a. Reduction at Substantial Completion (85%) to 2.5%
  - b. Additional 3% held for out of state contractors
6. Insurance Certificate After Award – Shall Include: Project Name, City of Providence (and Funder) as ‘Additionally Insured on a primary but non-contributing basis for General Liability Insurance per Written Contract or Agreement’
7. Permits - Contractor’s Responsibility to Seek Out if Permit is Needed
  - a. The City Permit Fee will be Waived (Contact when Submitting)
  - b. State ADA Fee is not waived
8. Prevailing Wage Requirements
  - a. Wage Decision in RFP (Date of Bid Opening)
  - b. Certified Payrolls to be Submitted with Pay Requisitions
9. Sub-Contractor Utilization Form: Submitted with Pay Requests
10. Submittals
  - a. Need Written Approval prior to purchase of Materials
  - b. Substitutions must include ‘Side by Side Comparison’
11. Schedule of Values / Sequence of Work – Submitted prior to mobilization
  - a. City expects a Continuous Operation (No Demobilizations)
  - b. Liquidated Damages – Not Included

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12. Working Hours
  - a. Monday – Friday 7:00 am – 3:30 pm
  - b. Weekends or Extended Hours – Requires Pre-Approval
13. Job Site Conduct
  - a. Parks are smoke free ‘No Smoking’
  - b. No Loud Music
  - c. Equipment and Vehicles – In working Order – No Leaks
14. Waiver of Lien – May be Required with certain funding sources for all suppliers and sub-contractors
15. Site is a Secure Facility
  - a. Access is limited to certain areas
  - b. Deliveries must be coordinated with manager
16. Project is Tax Exempt – Certificate to be provided after award
17. Casino – Parks will clean out debris under porch prior to contractor mobilization

Questions Need to be Submitted in Writing (5) Working Days Prior to the Opening – Sent Via E-mail to Brian Byrnes at [BByrnes@providenceri.gov](mailto:BByrnes@providenceri.gov) and Patti Jordan at [pjordan@providenceri.gov](mailto:pjordan@providenceri.gov)

**Parks Department Contact Information**

Brian F. Byrnes                      401-660-9308                      Deputy Superintendent (Primary Contact)  
E-Mail:                      [Bbyrnes@providenceri.gov](mailto:Bbyrnes@providenceri.gov)

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Sign-In Sheet

Non-Mandatory Pre-Bid Meeting

Monday, May 2, 2022 at 1:00 PM – Boathouse

Project: Casino Repairs / Boathouse Renovations

<u>Name</u>	<u>Company</u>	<u>E-Mail</u>	<u>Phone</u>
BRUCE BYRNES	PUD PARKS	Bbyrnese.providence.ri.gov	401-660-9308
Chris Jewell	East Coast Masonry	Chris@ecmri.net	401-490-1808
Jerry ST. Angelo	R.D. Presentation Co.	RouDi@Outi7 everi2ou.net	401-226-8616
Peter Stone	Will City Const	Pstone@mill-city.com	401-952-2062
MIKE MARSTONE	MARSTONE	mike@marstoneinc.com	792-3847
Barbara Thant	BTGA	barba@btga.com	401-861-1600
Anjali Doh	BTGA	anjali@btga.com	"
DERICK PAPA	TOWER	estimating@towerconstructioncorp.com	401-943-6110



**SECTION 00 9111**  
**ADDENDUM NO. 01****PART 1 PARTICULARS**

- 1.01 DATE: 05.12.2022
- 1.02 PROJECT: RWP Casino Repairs/Boathouse Renovations
- 1.03 OWNER: City of Providence, Parks Department
- 1.04 ARCHITECT: Brewster Thornton Group Architects

**PART 2 TO PROSPECTIVE BIDDERS:**

- 2.01 This addendum forms a part of the Contract Documents and modifies the Original Procurement Documents dated 03.16.2022 with amendments and additions noted below.
- 2.02 Acknowledge receipt of this addendum in the space provided in the Bid Form. Failure to do so may disqualify the bidder.
- 2.03 This Addendum consists of 3 pages and the following new or reissued documents:
- Pre-Bid Meeting Sign-in Sheet.
  - Section 08 7100 Door Hardware with revisions dated 5/12/22.
  - Architectural Drawings: RWP Casino Repairs A1.1 with revisions dated 5/6/22.

**PART 3 CHANGES TO PRIOR ADDENDA:**

- 3.01 None

**PART 4 CHANGES TO THE PROJECT MANUAL:**

- 4.02 Section 08 7100 – Door Hardware, REPLACE specification with the attached dated 05.12.22.

**PART 5 CHANGES TO THE DRAWINGS:**

- 5.01 RWP Casino Repairs Sheet A1.1 First Floor Plan & Door Schedule REPLACE sheet with attached dated 05.06.2022.

**PART 6 ADDITIONAL CLARIFICATIONS IN RESPONSE TO BIDDER QUESTIONS:****CASINO REPAIRS**

- 6.01 Please clarify hardware and modifications to RWP Casino doors necessary to meet code requirements.  
**Response:** The RWP Casino building is listed in the National Register of Historical Places within the Roger Williams Park Historic District; provisions within the Rhode Island State Rehabilitation Code (RISRC), Chapter 9: Historical Buildings will apply. Proposed scope of work related to the doors is limited to improve operation of doors with hardware upgrades without any changes to existing door leaf and opening widths, work is classified as 'Repairs' per RISRC Section 902.0 for Historical Buildings.
- 6.02 All pairs of doors on the Casino are existing and undersize in width by today's egress codes. The door schedule lists the pairs of doors #101 at 3' but they are not and do not meet egress or ADA requirements for a single leaf.  
**Response:**
- No changes are proposed to existing door leaf and/or opening widths.
  - Paired doors #101 and #103 are not accessible entrances and do not need to meet ADA requirements.

- Doors are not required to meet current egress codes. Per RISRC Section 302.1.2 conformance of 'Repairs', work shall not make the building less conforming with the building or fire code of the jurisdiction than it was before the repair was undertaken.
  - Door widths at openings #101 and #103 are updated in the drawing A1.1 issued with this addendum, per project specifications G.C will be required to field verify all dimensions, existing functions, conditions, and preparations and coordinate to suit opening conditions and to provide proper door operation.
- 6.03 All pairs of doors in the Casino have overlapping wood astragals on them creating prior knowledge to freely egress. This is a violation of the RI Fire, Building and Life Safety codes and incompatible with the specified hardware.
- Response:**
- Wood astragals at paired doors are existing to remain. Per RISRC Section 302.1.2 conformance of 'Repairs', work does not make the building less conforming with the building or fire code of the jurisdiction than it was before the repair was undertaken.
  - Section 08 7100 Door Hardware issued with this addendum is revised to include a door coordinator at paired doors #101, and #103 to ensure doors close in proper sequence.
- 6.04 The hardware specified on the undersized doors has a projection from the door face in excess of 4" which is a violation of hardware projection under ADA 404.2.3 Clear Widths.
- Response:**
- Door #102 is the only HC accessible entrance; all other doors have a step/change in floor elevation (on the exterior side). They are not HC accessible entrances and are not required to meet ADA requirements.
  - For Door #102, Section 08 7100 Door Hardware issued with this addendum is revised to include updated panic device.
- 6.05 All Casino hardware specifications call out the butt hinges as 5BB1 4.5x4.5. There is a note that replacement hinges are to match existing. The specification is incorrect, and the door hardware is not design build. Please provide the proper hinge as specified for the project.
- Response:**
- Section 08 7100 Door Hardware issued with this addendum is revised to include heavyweight hinges with ball tip ball bearing to match existing, specifications state that the G.C. is to review & verify replacement hinges match existing size, weight, quantity, and location.
  - Bidders have access to the existing building & doors to review existing conditions.
  - Project specifications require G.C to field verify all dimensions, existing functions, conditions, and preparations and coordinate to suit opening conditions and to provide proper door operation.
- 6.06 There are no cut sections showing the height of the piers and walls.
- Response:**
- The existing and new pier locations are available to inspect during the bidding period. This is an existing building and the grade varies under the deck.
  - Piers must be installed with footing bottom below frost depth per code as this is all unheated space.

## BOATHOUSE

- 6.07 Both pairs of doors on the Boathouse are existing and undersized in width by today's egress codes.
- Response:**
- RWP Boathouse building is listed in the National Register of Historical Places within the Roger Williams Park Historic District; provisions within the Rhode Island State Rehabilitation Code



(RISRC), Chapter 9: Historical Buildings will apply. Proposed scope of work related to the doors is limited to improve operation of doors and HC accessibility, with hardware upgrades without any changes to existing door leaf and opening widths, work is classified as 'Repairs' per RISRC Section 902.0 for Historical Buildings.

- With properly installed openers, the pairs will operate together and comply with opening widths for ADA.

6.08 Both pairs of doors have overlapping wood astragals creating prior knowledge for egress. Please advise how the overlapping astragal is to be addressed?

**Response:**

- Wood astragals at paired doors are existing to remain. This approach is in conformance with RISRC Section 302.1.2 Conformance of 'Repairs', work does not make the building less conforming with the building or fire code of the jurisdiction than it was before the repair was undertaken.
- Section 08 7100 Door Hardware issued with this addendum is revised to include a door coordinator at both pairs ensure doors close in proper sequence.

6.09 Both pairs of doors are to receive power door operators and electrified panic hardware. There is no detail of how to mount the electric operator on the arch top door with raised wood trim nor the inner door with raised wood trim. Please advise how the operator is to be mounted?

**Response:**

As per door hardware specifications, auto operator cannot be mounted without a special mounting due to unique style of the openings. As stated, a plate will be needed to run across the full length of the door from the jamb to frame jamb to mount the operator. LCN does not have a specific template for this opening however LCN tech support can assist in explaining how to mount and full plate needed. Project specifications require the auto operator to be sized specific to these openings.

6.010 There is no specified method to pass power from the door jamb to the panic hardware. Please advise how the power is to be transferred from the jamb to the panic device.

**Response:**

Revised door hardware specification issued with this addendum includes armored door loops.

**END OF ADDENDUM NO. 01**

## SECTION 087100 - DOOR HARDWARE

## PART 1 - GENERAL

## 1.01 SUMMARY

## A. Section includes:

1. Mechanical and electrified door hardware and installation
2. Electronic access control system components and installation
3. Field verification, preparation and modification of existing doors and frames to receive new door hardware.
4. Post bollard for push plate mounting and installation.

## B. Related Sections:

1. Division 01 Section "Alternates" for alternates affecting this section.
2. Division 06 Section "Rough Carpentry"
3. Division 06 Section "Finish Carpentry"
4. Division 07 Section "Joint Sealants" for sealant requirements applicable to threshold installation specified in this section.
5. Division 09 sections for touchup, finishing or refinishing of existing openings modified by this section.
6. Division 26 "Electrical" sections for connections to electrical power system and for low-voltage wiring.
7. Division 28 "Electronic Safety and Security" sections for coordination with other components of electronic access control system and fire alarm system.

## 1.02 REFERENCES

## A. UL - Underwriters Laboratories

1. UL 10B - Fire Test of Door Assemblies
2. UL 10C - Positive Pressure Test of Fire Door Assemblies
3. UL 1784 - Air Leakage Tests of Door Assemblies
4. UL 305 - Panic Hardware

## B. DHI - Door and Hardware Institute

1. Sequence and Format for the Hardware Schedule
2. Recommended Locations for Builders Hardware
3. Keying Systems and Nomenclature
4. Installation Guide for Doors and Hardware

## C. NFPA - National Fire Protection Association

1. NFPA 70 - National Electric Code
2. NFPA 80 - 2016 Edition - Standard for Fire Doors and Other Opening Protectives
3. NFPA 101 - Life Safety Code
4. NFPA 105 - Smoke and Draft Control Door Assemblies
5. NFPA 252 - Fire Tests of Door Assemblies

## D. ANSI - American National Standards Institute

1. ANSI A117.1 – 2017 Edition – Accessible and Usable Buildings and Facilities
2. ANSI/BHMA A156.1 - A156.29, and ANSI/BHMA A156.31 - Standards for Hardware and Specialties
3. ANSI/BHMA A156.28 - Recommended Practices for Keying Systems
4. ANSI/WDMA I.S. 1A - Interior Architectural Wood Flush Doors
5. ANSI/SDI A250.8 - Standard Steel Doors and Frames

## 1.03 SUBMITTALS

## A. General:

1. Submit in accordance with Conditions of Contract and Division 01 Submittal Procedures.
2. Prior to forwarding submittal:
  - a. Comply with procedures for verifying existing door and frame compatibility for new hardware, as specified in PART 3, "EXAMINATION" article, herein.
  - b. Review drawings and Sections from related trades to verify compatibility with specified hardware.
  - c. Highlight, encircle, or otherwise specifically identify on submittals: deviations from Contract Documents, issues of incompatibility or other issues which may detrimentally affect the Work.

## B. Action Submittals:

1. Product Data: Submit technical product data for each item of door hardware, installation instructions, maintenance of operating parts and finish, and other information necessary to show compliance with requirements.
2. Riser and Wiring Diagrams: After final approval of hardware schedule, submit details of electrified door hardware, indicating:
  - a. Wiring Diagrams: For power, signal, and control wiring and including:
    - 1) Details of interface of electrified door hardware and building safety and security systems.
    - 2) Schematic diagram of systems that interface with electrified door hardware.
    - 3) Point-to-point wiring.
    - 4) Risers.
3. Samples for Verification: If requested by Architect, submit production sample of requested door hardware unit in finish indicated and tagged with full description for coordination with schedule.
  - a. Samples will be returned to supplier. Units that are acceptable to Architect may, after final check of operations, be incorporated into Work, within limitations of key coordination requirements.
4. Door Hardware Schedule:
  - a. Submit concurrent with submissions of Product Data, Samples, and Shop Drawings. Coordinate submission of door hardware schedule with scheduling requirements of other work to facilitate fabrication of other work critical in Project construction schedule.

- b. Submit under direct supervision of a Door Hardware Institute (DHI) certified Architectural Hardware Consultant (AHC) or Door Hardware Consultant (DHC) with hardware sets in vertical format as illustrated by Sequence of Format for the Hardware Schedule published by DHI.
- c. Indicate complete designations of each item required for each opening, include:
  - 1) Door Index: door number, heading number, and Architect's hardware set number.
  - 2) Quantity, type, style, function, size, and finish of each hardware item.
  - 3) Name and manufacturer of each item.
  - 4) Fastenings and other pertinent information.
  - 5) Location of each hardware set cross-referenced to indications on Drawings.
  - 6) Explanation of all abbreviations, symbols, and codes contained in schedule.
  - 7) Mounting locations for hardware.
  - 8) Door and frame sizes and materials.
  - 9) Degree of door swing and handing.
  - 10) Operational Description of openings with electrified hardware covering egress, ingress (access), and fire/smoke alarm connections.

5. Key Schedule:

- a. After Keying Conference, provide keying schedule that includes levels of keying, explanations of key system's function, key symbols used, and door numbers controlled.
- b. Use ANSI/BHMA A156.28 "Recommended Practices for Keying Systems" as guideline for nomenclature, definitions, and approach for selecting optimal keying system.
- c. Provide 3 copies of keying schedule for review prepared and detailed in accordance with referenced DHI publication. Include schematic keying diagram and index each key to unique door designations.
- d. Index keying schedule by door number, keyset, hardware heading number, cross keying instructions, and special key stamping instructions.
- e. Provide one complete bitting list of key cuts and one key system schematic illustrating system usage and expansion. Forward bitting list, key cuts and key system schematic directly to Owner, by means as directed by Owner.
- f. Prepare key schedule by or under supervision of supplier, detailing Owner's final keying instructions for locks.

C. Informational Submittals:

1. Provide Qualification Data for Supplier, Installer and Architectural Hardware Consultant.
2. Provide Product Data:
  - a. Certify that door hardware approved for use on types and sizes of labeled fire-rated doors complies with listed fire-rated door assemblies.
  - b. Include warranties for specified door hardware.

D. Closeout Submittals:

1. Operations and Maintenance Data: Provide in accordance with Division 01 and include:
  - a. Complete information on care, maintenance, and adjustment; data on repair and replacement parts, and information on preservation of finishes.
  - b. Catalog pages for each product.
  - c. Final approved hardware schedule edited to reflect conditions as installed.
  - d. Final keying schedule

- e. Copy of warranties including appropriate reference numbers for manufacturers to identify project.
- f. As-installed wiring diagrams for each opening connected to power, both low voltage and 110 volts.

E. Inspection and Testing:

1. Submit written reports to the Owner and Authority Having Jurisdiction (AHJ) of the results of functional testing and inspection for:
  - a. fire door assemblies, in compliance with NFPA 80.
  - b. required egress door assemblies, in compliance with NFPA 101.

#### 1.04 QUALITY ASSURANCE

A. Qualifications and Responsibilities:

1. Supplier: Recognized architectural hardware supplier with a minimum of 5 years documented experience supplying both mechanical and electromechanical door hardware similar in quantity, type, and quality to that indicated for this Project. Supplier to be recognized as a factory direct distributor by the manufacturer of the primary materials with a warehousing facility in the Project's vicinity. Supplier to have on staff, a certified Architectural Hardware Consultant (AHC) or Door Hardware Consultant (DHC) available to Owner, Architect, and Contractor, at reasonable times during the Work for consultation.
2. Installer: Qualified tradesperson skilled in the application of commercial grade hardware with experience installing door hardware similar in quantity, type, and quality as indicated for this Project.
3. Architectural Hardware Consultant: 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 meets these requirements:
  - a. For door hardware: DHI certified AHC or DHC.
  - b. Can provide installation and technical data to Architect and other related subcontractors.
  - c. Can inspect and verify components are in working order upon completion of installation.
  - d. Capable of producing wiring diagram and coordinating installation of electrified hardware with Architect and electrical engineers.
4. Single Source Responsibility: Obtain each type of door hardware from single manufacturer.

B. Certifications:

1. Fire-Rated Door Openings:
  - a. Provide door hardware for fire-rated openings that complies with NFPA 80 and requirements of authorities having jurisdiction.
  - b. Provide only items of door hardware that are listed products tested by Underwriters Laboratories, Intertek Testing Services, or other testing and inspecting organizations acceptable to authorities having jurisdiction for use on types and sizes of doors indicated, based on testing at positive pressure and according to NFPA 252 or UL 10C and in compliance with requirements of fire-rated door and door frame labels.

2. Smoke and Draft Control Door Assemblies:
  - a. Provide door hardware that meets requirements of assemblies tested according to UL 1784 and installed in compliance with NFPA 105
  - b. Comply with the maximum air leakage of 0.3 cfm/sq. ft. (3 cu. m per minute/sq. m) at tested pressure differential of 0.3-inch wg (75 Pa) of water.
3. Electrified Door Hardware
  - a. Listed and labeled as defined in NFPA 70, Article 100, by testing agency acceptable to authorities having jurisdiction.
4. Accessibility Requirements:
  - a. Comply with governing accessibility regulations cited in "REFERENCES" article 087100, 1.02.D3 herein for door hardware on doors in an accessible route. This project must comply with all Federal Americans with Disability Act regulations and all Local Accessibility Regulations.

#### C. Pre-Installation Meetings

1. Keying Conference
  - a. Incorporate keying conference decisions into final keying schedule after reviewing door hardware keying system including:
    - 1) Function of building, flow of traffic, purpose of each area, degree of security required, and plans for future expansion.
    - 2) Preliminary key system schematic diagram.
    - 3) Requirements for key control system.
    - 4) Requirements for access control.
    - 5) Address for delivery of keys.
2. Pre-installation Conference
  - a. Review and finalize construction schedule and verify availability of materials, installer's personnel, equipment, and facilities needed to make progress and avoid delays.
  - b. Inspect and discuss preparatory work performed by other trades.
  - c. Inspect and discuss electrical roughing-in for electrified door hardware.
  - d. Review sequence of operation for each type of electrified door hardware.
  - e. Review required testing, inspecting, and certifying procedures.
  - f. Review questions or concerns related to proper installation and adjustment of door hardware.
3. Electrified Hardware Coordination Conference:
  - a. Prior to ordering electrified hardware, schedule and hold meeting to coordinate door hardware with security, electrical, doors and frames, and other related suppliers.

#### 1.05 DELIVERY, STORAGE, AND HANDLING

- A. Inventory door hardware on receipt and provide secure lock-up for hardware delivered to Project site. Promptly replace products damaged during shipping.

- B. Tag each item or package separately with identification coordinated with final door hardware schedule, and include installation instructions, templates, and necessary fasteners with each item or package. Deliver each article of hardware in manufacturer's original packaging.
- C. Maintain manufacturer-recommended environmental conditions throughout storage and installation periods.
- D. Provide secure lock-up for door hardware delivered to Project. Control handling and installation of hardware items so that completion of Work will not be delayed by hardware losses both before and after installation.
- E. Handle hardware in manner to avoid damage, marring, or scratching. Correct, replace or repair products damaged during Work. Protect products against malfunction due to paint, solvent, cleanser, or any chemical agent.
- F. Deliver keys to manufacturer of key control system for subsequent delivery to Owner.

#### 1.06 COORDINATION

- A. Coordinate layout and installation of floor-recessed door hardware with floor construction. Cast anchoring inserts into concrete.
- B. Installation Templates: Distribute for doors, frames, and other work specified to be factory or shop prepared. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.
- C. Security: Coordinate installation of door hardware, keying, and access control with Owner's security consultant.
- D. Electrical System Roughing-In: Coordinate layout and installation of electrified door hardware with connections to power supplies and building safety and security systems.
- E. Existing Openings: Where existing doors, frames and/or hardware are to remain, field verify existing functions, conditions and preparations and coordinate to suit opening conditions and to provide proper door operation.

#### 1.07 WARRANTY

- A. Manufacturer's standard form in which manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within published warranty period.
  - 1. Warranty does not cover damage or faulty operation due to improper installation, improper use or abuse.
  - 2. Warranty Period: Beginning from date of Substantial Completion, for durations indicated in manufacturer's published listings.
    - a. Mechanical Warranty
      - 1) Exit Devices
        - a) Von Duprin: 3 years
      - 2) Closers
        - a) LCN 4000 Series: 30 years
      - 3) Automatic Operators
        - a) LCN: 2 years
    - b. Electrical Warranty
      - 1) Locks
        - a) Schlage: 1 year
      - 2) Exit Devices
        - a) Von Duprin: 1 year
      - 3) Closers
        - a) LCN: 2 years

## 1.08 MAINTENANCE

- A. Furnish complete set of special tools required for maintenance and adjustment of hardware, including changing of cylinders.
- B. Turn over unused materials to Owner for maintenance purposes.

## PART 2 - PRODUCTS

## 2.01 MANUFACTURERS

- A. Approval of manufacturers and/or products other than those listed as "Scheduled Manufacturer" or "Acceptable Manufacturers" in the individual article for the product category shall be in accordance with QUALITY ASSURANCE article, herein.
- B. Approval of products from manufacturers indicated in "Acceptable Manufacturers" is contingent upon those products providing all functions and features and meeting all requirements of scheduled manufacturer's product.
- C. Where specified hardware is not adaptable to finished shape or size of members requiring hardware, furnish suitable types having same operation and quality as type specified, subject to Architect's approval.

## 2.02 MATERIALS

## A. Fabrication

- 1. Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. provide screws according to manufacturer's recognized installation standards for application intended.
- 2. Finish exposed screws to match hardware finish, or, if exposed in surfaces of other work, to match finish of this other work including prepared for paint surfaces to receive painted finish.
- 3. Provide concealed fasteners wherever possible for hardware units exposed when door is closed. Coordinate with "Metal Doors and Frames", "Flush Wood Doors", "Stile and Rail Wood Doors" to ensure proper reinforcements. Advise the Architect where visible fasteners, such as thru bolts, are required.

## B. Modification and Preparation of Existing Doors: Where existing door hardware is indicated to be removed and reinstalled.

- 1. Provide necessary fillers, Dutchmen, reinforcements, and fasteners, compatible with existing materials, as required for mounting new opening hardware and to cover existing door and frame preparations.
- 2. Use materials which match materials of adjacent modified areas.
- 3. When modifying existing fire-rated openings, provide materials permitted by NFPA 80 as required to maintain fire-rating.

## C. Provide screws, bolts, expansion shields, drop plates and other devices necessary for hardware installation.

- 1. Where fasteners are exposed to view: Finish to match adjacent door hardware material.

## D. Cable and Connectors:



1. Where scheduled in the hardware sets, provide each item of electrified hardware and wire harnesses with number and gage of wires enough to accommodate electric function of specified hardware.
2. Provide Molex connectors that plug directly into connectors from harnesses, electric locking and power transfer devices.
3. Provide through-door wire harness for each electrified locking device installed in a door and wire harness for each electrified hinge, electrified continuous hinge, electrified pivot, and electric power transfer for connection to power supplies.

## 2.03 HINGES

### A. Manufacturers and Products:

#### 1. Scheduled Manufacturer and Product:

##### a. Match existing

#### 2. Acceptable Manufacturers and Products:

### B. Requirements:

1. Provide hinges conforming to ANSI/BHMA A156.1.
2. Provide five knuckle, ball bearing hinges.
3. 1-3/4 inch (44 mm) thick doors, up to and including 36 inches (914 mm) wide:
  - a. Exterior: Standard weight, bronze or stainless steel, 4-1/2 inches (114 mm) high
  - b. Interior: Standard weight, steel, 4-1/2 inches (114 mm) high
4. 1-3/4 inch (44 mm) thick doors over 36 inches (914 mm) wide:
  - a. Exterior: Heavy weight, bronze/stainless steel, 5 inches (127 mm) high
  - b. Interior: Heavy weight, steel, 5 inches (127 mm) high
5. 2 inches or thicker doors:
  - a. Exterior: Heavy weight, bronze or stainless steel, 5 inches (127 mm) high
  - b. Interior: Heavy weight, steel, 5 inches (127 mm) high
6. Adjust hinge width for door, frame, and wall conditions to allow proper degree of opening.
7. Provide three hinges per door leaf for doors 90 inches (2286 mm) or less in height, and one additional hinge for each 30 inches (762 mm) of additional door height.
8. Where new hinges are specified for existing doors or existing frames, provide new hinges of identical size to hinge preparation present in existing door or existing frame.
9. Hinge Pins: Except as otherwise indicated, provide hinge pins as follows:
  - a. Steel Hinges: Steel pins
  - b. Non-Ferrous Hinges: Stainless steel pins
  - c. Out-Swinging Exterior Doors: Non-removable pins
  - d. Out-Swinging Interior Lockable Doors: Non-removable pins
  - e. Interior Non-lockable Doors: Non-rising pins

10. Provide hinges with electrified options as scheduled in the hardware sets. Provide with number and gage of wires enough to accommodate electric function of specified hardware. Locate electric hinge at second hinge from bottom or nearest to electrified locking component. Provide mortar guard for each electrified hinge specified.

## 2.04 EXIT DEVICES

### A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
  - a. Von Duprin 99/33A series
2. Acceptable Manufacturers and Products:
  - a. Detex Advantex series
  - b. Precision APEX 2000 series

### B. Requirements:

1. Provide exit devices tested to ANSI/BHMA A156.3 Grade 1 and UL listed for Panic Exit or Fire Exit Hardware.
2. Cylinders: Refer to "KEYING" article, herein.
3. Provide grooved touchpad type exit devices, fabricated of brass, bronze, stainless steel, or aluminum, plated to standard architectural finishes to match balance of door hardware.
4. Touchpad must extend a minimum of one half of door width. No plastic inserts are allowed in touchpads.
5. Provide exit devices with deadlatching feature for security and for future addition of alarm kits and/or other electrified requirements.
6. Provide exit devices with weather resistant components that can withstand harsh conditions of various climates and corrosive cleaners used in outdoor pool environments.
7. Provide flush end caps for exit devices.
8. Provide exit devices with manufacturer's approved strikes.
9. Provide exit devices cut to door width and height. Install exit devices at height recommended by exit device manufacturer, allowable by governing building codes, and approved by Architect.
10. Mount mechanism case flush on face of doors or provide spacers to fill gaps behind devices. Where glass trim or molding projects off face of door, provide glass bead kits.
11. Provide cylinder or hex-key dogging as specified at non fire-rated openings.
12. Removable Mullions: 2 inches (51 mm) x 3 inches (76 mm) steel tube. Where scheduled as keyed removable mullion, provide type that can be removed by use of a keyed cylinder, which is self-locking when re-installed.
13. Provide factory drilled weep holes for exit devices used in full exterior application, highly corrosive areas, and where noted in hardware sets.
14. Provide electrified options as scheduled.
15. Top latch mounting: double- or single-tab mount for steel doors, face mount for aluminum doors eliminating requirement of tabs, and double tab mount for wood doors.
16. Provide exit devices with optional trim designs to match other lever and pull designs used on the project.

## 2.05 EXIT DEVICES – BAR TYPE

### A. Manufacturer and Product:

1. Scheduled Manufacturer:
    - a. Von Duprin 55/88 series
  2. Acceptable Manufacturers and Products:
    - a. Sargent 90 series
- B. Requirements:
1. Provide exit devices tested to ANSI/BHMA A156.3 Grade 1 and UL listed for Panic Exit or Fire Exit Hardware.
  2. Cylinders: Refer to "KEYING" article, herein.
  3. Provide bar type exit devices, cast or forged of brass, bronze, or stainless steel, plated to standard architectural finishes to match balance of the door hardware.
  4. Latch Bolt Throw: 3/4 inch (19 mm) for rim and mortise devices, 5/8 inch (16 mm) for surface and concealed vertical rod devices.
  5. Mechanism Case: One piece without cover plate. Mount flush on face of doors or provide spacers to fill gaps behind devices. Where glass trim or molding projects off face of door, provide glass bead kits.
  6. Provide UL labeled fire exit devices for fire rated openings.
  7. Provide manufacturer's standard strikes.
  8. Provide exit devices cut to door width and height. Locate exit devices at height recommended by exit device manufacturer, allowable by governing building codes, and approved by Architect.
  9. Removable Mullions: 2 inches (51 mm) x 3 inches (76 mm) steel tube. Where scheduled as keyed removable mullion, provide type that can be removed by use of a keyed cylinder, which is self-locking when re-installed.
  10. Provide electrified options as scheduled in the hardware sets.
  11. Furnish all necessary wood door kits and cover plates, for proper installation of exit device.
  12. Provide exit devices with optional trim designs to match other lever and pull designs used on the project.
  13. Special Options:
    - a. HH: Provide wind and impact rated hurricane exit devices and mullions certified to comply with Florida Building Code (FBC) TAS 201, 202, 203.
    - b. HW: Provide wind rated hurricane exit devices and mullions certified to comply with ANSI-ASTM E330.

## 2.06 ELECTRIC STRIKES

- A. Manufacturers and Products:
1. Scheduled Manufacturer and Product:
    - a. Von Duprin 6000 Series
  2. Acceptable Manufacturers and Products:
    - a. Folger Adam 300 Series
    - b. HES 1006 Series
- B. Requirements:

1. Provide electric strikes designed for use with type of locks shown at each opening.
2. Provide electric strikes UL Listed as burglary resistant that are tested to a minimum endurance test of 1,000,000 cycles.
3. Where required, provide electric strikes UL Listed for fire doors and frames.
4. Provide transformers and rectifiers for each strike as required. Verify voltage with electrical contractor.

## 2.07 KEYING

### A. Scheduled System:

1. Existing factory registered system:
  - a. Provide cylinders/cores keyed into Owner's existing factory registered keying system. Comply with guidelines in ANSI/BHMA A156.28, incorporating decisions made at keying conference.

### B. Requirements:

1. Construction Keying:
  - a. Replaceable Construction Cores.
    - 1) Provide temporary construction cores replaceable by permanent cores, furnished in accordance with the following requirements.
      - a) 3 construction control keys
      - b) 12 construction change (day) keys.
    - 2) Owner or Owner's Representative will replace temporary construction cores with permanent cores.
2. Permanent Keying:
  - a. Provide permanent cylinders/cores keyed by the manufacturer according to the following key system.
    - 1) Master Keying system as directed by the Owner.
  - b. Forward biting list and keys separately from cylinders, by means as directed by Owner. Failure to comply with forwarding requirements will be cause for replacement of cylinders/cores involved at no additional cost to Owner.
  - c. Provide keys with the following features:
    - 1) Material: Nickel silver; minimum thickness of .107-inch (2.3mm)
  - d. Identification:
    - 1) Mark permanent cylinders/cores and keys with applicable blind code for identification. Do not provide blind code marks with actual key cuts.
    - 2) Identification stamping provisions must be approved by the Architect and Owner.
    - 3) Stamp cylinders/cores and keys with Owner's unique key system facility code as established by the manufacturer; key symbol and embossed or stamped with "DO NOT DUPLICATE" along with the "PATENTED" or patent number to enforce the patent protection.
    - 4) Failure to comply with stamping requirements will be cause for replacement of keys involved at no additional cost to Owner.
    - 5) Forward permanent cylinders/cores to Owner, separately from keys, by means as directed by Owner.

- e. Quantity: Furnish in the following quantities.
  - 1) Change (Day) Keys: 3 per cylinder/core.
  - 2) Permanent Control Keys: 3.
  - 3) Master Keys: 6.

## 2.08 KEY CONTROL SYSTEM

### A. Manufacturers:

- 1. Scheduled Manufacturer:
  - a. Telkee
- 2. Acceptable Manufacturers:
  - a. HPC
  - b. Lund

### B. Requirements:

- 1. Provide key control system, including envelopes, labels, tags with self-locking key clips, receipt forms, 3-way visible card index, temporary markers, permanent markers, and standard metal cabinet, all as recommended by system manufacturer, with capacity for 150% of number of locks required for Project.
  - a. Provide complete cross index system set up by hardware supplier, and place keys on markers and hooks in cabinet as determined by final key schedule.
  - b. Provide hinged-panel type cabinet for wall mounting.

## 2.09 DOOR CLOSERS

### A. Manufacturers and Products:

- 1. Scheduled Manufacturer and Product:
  - a. LCN 4040XP series
- 2. Acceptable Manufacturers and Products:
  - a. Best QDC series
  - b. Sargent 281 series

### B. Requirements:

- 1. Provide door closers conforming to ANSI/BHMA A156.4 Grade 1 requirements by BHMA certified independent testing laboratory. ISO 9000 certify closers. Stamp units with date of manufacture code.
- 2. Provide door closers with fully hydraulic, full rack and pinion action with high strength cast iron cylinder, and full complement bearings at shaft.
- 3. Cylinder Body: 1-1/2-inch (38 mm) diameter with 5/8-inch (16 mm) diameter double heat-treated pinion journal.
- 4. Hydraulic Fluid: Fireproof, passing requirements of UL10C, and requiring no seasonal closer adjustment for temperatures ranging from 120 degrees F to -30 degrees F.

5. Spring Power: Continuously adjustable over full range of closer sizes, and providing reduced opening force as required by accessibility codes and standards.
6. Hydraulic Regulation: By tamper-proof, non-critical valves, with separate adjustment for latch speed, general speed, and backcheck.
7. Provide closers with solid forged steel main arms and factory assembled heavy-duty forged forearms for parallel arm closers.
8. Pressure Relief Valve (PRV) Technology: Not permitted.
9. Finish for Closer Cylinders, Arms, Adapter Plates, and Metal Covers: Powder coating finish which has been certified to exceed 100 hours salt spray testing as described in ANSI Standard A156.4 and ASTM B117, or has special rust inhibitor (SRI).
10. Provide special templates, drop plates, mounting brackets, or adapters for arms as required for details, overhead stops, and other door hardware items interfering with closer mounting.

## 2.10 ELECTRO-MECHANICAL AUTOMATIC OPERATORS

### A. Manufacturers and Products:

#### 1. Scheduled Manufacturer and Product:

##### a. Dorma ED100

### B. Requirements:

1. Provide low energy automatic operator units that are electro-mechanical design complying with ANSI/BHMA A156.19.
  - a. Opening: Powered by DC motor working through reduction gears.
  - b. Closing: Spring force.
  - c. Manual, hydraulic, or chain drive closers: Not permitted.
  - d. Operation: Motor is off when door is in closing mode. Door can be manually operated with power on or off without damage to operator. Provide variable adjustments, including opening and closing speed adjustment.
  - e. Cover: Aluminum.
2. Provide units with manual off/auto/hold-open switch, push and go function to activate power operator, vestibule interface delay, electric lock delay, hold-open delay adjustable from 1 to 32 seconds, and logic terminal to interface with accessories, mats, and sensors.
3. Provide drop plates, brackets, and adapters for arms as required to suit details.
4. Provide motion sensors and/or actuator switches, and receivers for operation as specified. Provide weather-resistant actuators at exterior applications.
5. Provide key switches, with LED's, recommended and approved by manufacturer of automatic operator as required for function as described in operation description of hardware sets. Cylinders: Refer to "KEYING" article, herein.
6. Provide complete assemblies of controls, switches, power supplies, relays, and parts/material recommended and approved by manufacturer of automatic operator for each individual leaf. Actuators control both doors simultaneously at pairs. Sequence operation of exterior and vestibule doors with automatic operators to allow ingress or egress through both sets of openings as directed by Architect. Locate actuators, key switches, and other controls as directed by Architect.

## 2.11 DOOR TRIM

### A. Manufacturers:

1. Scheduled Manufacturer:
  - a. Ives
2. Acceptable Manufacturers:
  - a. Burns
  - b. Rockwood

### B. Requirements:

1. Provide push plates, push bars, pull plates, pulls, and hands-free reversible door pulls with diameter and length as scheduled.

## 2.12 PROTECTION PLATES

### A. Manufacturers:

1. Scheduled Manufacturer:
  - a. Ives
2. Acceptable Manufacturers:
  - a. Trimco
  - b. Rockwood

### B. Requirements:

1. Provide protection plates with a minimum of 0.050 inch (1 mm) thick, beveled four edges as scheduled. Furnish with sheet metal or wood screws, finished to match plates.
2. Sizes plates 2 inches (51 mm) less width of door on single doors, pairs of doors with a mullion, and doors with edge guards. Size plates 1 inch (25 mm) less width of door on pairs without a mullion or edge guards.
3. At fire rated doors, provide protection plates over 16 inches high with UL label.

## 2.13 OVERHEAD STOPS AND OVERHEAD STOP/HOLDERS

### A. Manufacturers:

1. Scheduled Manufacturers:
  - a. Glynn-Johnson
2. Acceptable Manufacturers:
  - a. ABH

### B. Requirements:

1. Provide overhead stop at any door where conditions do not allow for a wall stop or floor stop presents tripping hazard.
2. Provide friction type at doors without closer and positive type at doors with closer.

#### 2.14 THRESHOLDS, SEALS, DOOR SWEEPS, AUTOMATIC DOOR BOTTOMS, AND GASKETING

##### A. Manufacturers:

1. Scheduled Manufacturer:
  - a. Zero International
2. Acceptable Manufacturers:
  - a. National Guard
  - b. Pemko

##### B. Requirements:

1. Provide thresholds, weather-stripping, and gasketing systems as specified and per architectural details. Match finish of other items.
2. Smoke- and Draft-Control Door Assemblies: Where smoke- and draft-control door assemblies are required, provide door hardware that meets requirements of assemblies tested according to UL 1784 and installed in compliance with NFPA 105.
3. Provide door sweeps, seals, astragals, and auto door bottoms only of type where resilient or flexible seal strip is easily replaceable and readily available.
4. Size thresholds 1/2 inch (13 mm) high by 5 inches (127 mm) wide by door width unless otherwise specified in the hardware sets or detailed in the drawings.

#### 2.15 POST BOLLARDS

##### A. Manufacturers:

1. Scheduled Manufacturer:
  - a. Basis of Design: Wikk Industries

##### B. Requirements:

1. Provide SQ14 Satin Stainless Steel Bollard with concrete mounting, including welded rain hood over devisces and surface mount access panel on back.
2. Utilize SG Switch Series for push pads.

#### 2.16 FINISHES

##### A. FINISH: BHMA 626/652 (US26D); EXCEPT:

1. Hinges at Exterior Doors: BHMA 630 (US32D)
2. Aluminum Geared Continuous Hinges: BHMA 628 (US28)
3. Push Plates, Pulls, and Push Bars: BHMA 630 (US32D)
4. Protection Plates: BHMA 630 (US32D)



5. Overhead Stops and Holders: BHMA 630 (US32D)
6. Door Closers: Powder Coat to Match
7. Wall Stops: BHMA 630 (US32D)
8. Latch Protectors: BHMA 630 (US32D)
9. Weatherstripping: Clear Anodized Aluminum
10. Thresholds: Mill Finish Aluminum

## PART 3 - EXECUTION

### 3.01 EXAMINATION

- A. Prior to installation of hardware, examine doors and frames, with Installer present, for compliance with requirements for installation tolerances, labeled fire-rated door assembly construction, wall and floor construction, and other conditions affecting performance. Verify doors, frames, and walls have been properly reinforced for hardware installation.
- B. Field verify existing doors and frames receiving new hardware and existing conditions receiving new openings. Verify that new hardware is compatible with existing door and frame preparation and existing conditions.
- C. Examine roughing-in for electrical power systems to verify actual locations of wiring connections before electrified door hardware installation.
- D. Submit a list of deficiencies in writing and proceed with installation only after unsatisfactory conditions have been corrected.

### 3.02 INSTALLATION

- A. 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. Interior Architectural Wood Flush Doors: ANSI/WDMA I.S. 1A
  4. Installation Guide for Doors and Hardware: DHI TDH-007-20
- B. Install door hardware in accordance with NFPA 80, NFPA 101 and provide post-install inspection, testing as specified in section 1.03.E unless otherwise required to comply with governing regulations.
- C. Install each hardware item in compliance with manufacturer's instructions and recommendations, using only fasteners provided by manufacturer.
- D. Do not install surface mounted items until finishes have been completed on substrate. Protect all installed hardware during painting.
- E. Set units level, plumb and true to line and location. Adjust and reinforce attachment substrate as necessary for proper installation and operation.
- F. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.
- G. Install operating parts so they move freely and smoothly without binding, sticking, or excessive clearance.
- H. Hinges: Install types and in quantities indicated in door hardware schedule but not fewer than quantity recommended by manufacturer for application indicated.
- I. Lock Cylinders:
  1. Install construction cores to secure building and areas during construction period.
  2. Replace construction cores with permanent cores as indicated in keying section.

3. Furnish permanent cores to Owner for installation.
- J. Wiring: Coordinate with Division 26, ELECTRICAL and Division 28 ELECTRONIC SAFETY AND SECURITY sections for:
1. Conduit, junction boxes and wire pulls.
  2. Connections to and from power supplies to electrified hardware.
  3. Connections to fire/smoke alarm system and smoke evacuation system.
  4. Connection of wire to door position switches and wire runs to central room or area, as directed by Architect.
  5. Connections to panel interface modules, controllers, and gateways.
  6. Testing and labeling wires with Architect's opening number.
- K. Key Control System: Tag keys and place them on markers and hooks in key control system cabinet, as determined by final keying schedule.
- L. Door Closers: Mount closers on room side of corridor doors, inside of exterior doors, and stair side of stairway doors from corridors. Mount closers so they are not visible in corridors, lobbies and other public spaces unless approved by Architect.
- M. Closer/holders: Mount closer/holders on room side of corridor doors, inside of exterior doors, and stair side of stairway doors.
- N. Power Supplies: Locate power supplies as indicated or, if not indicated, above accessible ceilings or in equipment room, or alternate location as directed by Architect.
- O. Thresholds: Set thresholds in full bed of sealant complying with requirements specified in Division 07 Section "Joint Sealants."
- P. Stops: Provide floor stops for doors unless wall or other type stops are indicated in door hardware schedule. Do not mount floor stops where they may impede traffic or present tripping hazard.
- Q. Perimeter Gasketing: Apply to head and jamb, forming seal between door and frame.
- R. Meeting Stile Gasketing: Fasten to meeting stiles, forming seal when doors are closed.
- S. Door Bottoms and Sweeps: Apply to bottom of door, forming seal with threshold when door is closed.

### 3.03 ADJUSTING

- A. Initial Adjustment: 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.
1. Spring Hinges: Adjust to achieve positive latching when door can close freely from an open position of 30 degrees.
  2. Electric Strikes: Adjust horizontal and vertical alignment of keeper to properly engage lock bolt.
  3. Door Closers: Adjust sweep period to comply with accessibility requirements and requirements of authorities having jurisdiction.
- B. Occupancy Adjustment: Approximately three to six months after date of Substantial Completion, examine and readjust each item of door hardware, including adjusting operating forces, as necessary to ensure function of doors and door hardware.

### 3.04 CLEANING AND PROTECTION

- A. Clean adjacent surfaces soiled by door hardware installation.

- B. Clean operating items per manufacturer's instructions to restore proper function and finish.
- C. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of Substantial Completion.

3.05 DOOR HARDWARE SCHEDULE

- A. The intent of the hardware specification is to specify the hardware for interior and exterior doors, and to establish a type, continuity, and standard of quality. However, it is the door hardware supplier's responsibility to thoroughly review existing conditions, schedules, specifications, drawings, and other Contract Documents to verify the suitability of the hardware specified.
- B. Discrepancies, conflicting hardware, and missing items are to be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application.
- C. Hardware items are referenced in the following hardware schedule. Refer to the above specifications for special features, options, cylinders/keying, and other requirements.
- D. Hardware Sets:

Hardware Group No. 01

For use on Door #(s):

101                      103

PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	MFR
6	EA	<b>HEAVYWEIGHT HINGE</b>	<b>BALL TIP BALL BEARING TO MATCH EXISTING</b>	<b>UNK</b>
1	EA	PANIC HARDWARE	<b>8827-EO</b>	VON
1	EA	PANIC HARDWARE	<b>8827-L-06</b>	VON
1	EA	MORTISE/RIM CYLINDER	AS REQUIRED	SCH
1	EA	TO MATCH OWNER STANDARD	PERMANENT CORE	SCH
<b>1</b>	<b>EA</b>	<b>COORDINATOR</b>	<b>COR X FL</b>	<b>IVE</b>
2	EA	OH STOP	100S	GLY
2	EA	SURFACE CLOSER	4040XP EDA MC WMS	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS	IVE
1	EA	GASKETING	429D-S	ZER
2	EA	DOOR SWEEP	39D	ZER

EXISTING DOOR AND FRAME TO REMAIN. EXISTING HARDWARE TO BE REMOVED AND REPLACED WITH SPECIFIED HARDWARE. ANY HARDWARE THAT IS NOT REPLACED IS TO BE REMOVED. EXISTING DOOR AND FRAME TO BE REPAIRED AND FILLED TO CORRECT ANY DAMAGES AND FILL ANY HOLES OR PREP REMAINING FROM EXISTING HARDWARE THAT IS REMOVED. EXISTING CONDITIONS PREVENT DOOR FROM SWINGING FREELY. CONDITIONS TO BE EVALUATED AND DOOR, FRAME AND HARDWARE TO BE ADJUSTED AND INSTALLED TO ALLOW OPENING TO SWING FREELY. REPLACEMENT HINGES TO MATCH EXISTING SIZE, WEIGHT, QUANTITY AND LOCATION. **EXISTING ASTRAGAL TO REMAIN.**

Hardware Group No. 02

For use on Door #(s):

102

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	MFR
3	EA	<b>HEAVYWEIGHT HINGE</b>	<b>BALL TIP BALL BEARING TO MATCH EXISTING</b>	<b>UNK</b>
1	EA	PANIC HARDWARE	QEL98NLOP48	VON
1	EA	MORTISE/RIM CYLINDER	AS REQUIRED	SCH
1	EA	TO MATCH OWNER STANDARD	PERMANENT CORE	SCH
1	EA	ELECTRIC STRIKE	6300 FSE 12/24 VAC/VDC	VON
1	<b>EA</b>	<b>AUTO OPERATOR</b>	<b>ED100 AS REQUIRED</b>	<b>DRM</b>
2	EA	ACTUATOR, TOUCHLESS	AS REQUIRED	
1	EA	MOUNT BOX	AS REQUIRED	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	IVE
1	EA	GASKETING	429D-S	ZER
1	EA	DOOR SWEEP	39D	ZER
1	<b>EA</b>	<b>POWER SUPPLY</b>	<b>PS902-4RL 120/240 VAC</b>	<b>SCE</b>

EXISTING DOOR AND FRAME TO REMAIN. EXISTING HARDWARE TO BE REMOVED AND REPLACED WITH SPECIFIED HARDWARE. ANY HARDWARE THAT IS NOT REPLACED IS TO BE REMOVED. EXISTING DOOR AND FRAME TO BE REPAIRED AND FILLED TO CORRECT ANY DAMAGES AND FILL ANY HOLES OR PREP REMAINING FROM EXISTING HARDWARE THAT IS REMOVED. EXISTING CONDITIONS PREVENT DOOR FROM SWINGING FREELY. CONDITIONS TO BE EVALUATED AND DOOR, FRAME AND HARDWARE TO BE ADJUSTED AND INSTALLED TO ALLOW OPENING TO SWING FREELY. REPLACEMENT HINGES TO MATCH EXISTING SIZE, WEIGHT, QUANTITY AND LOCATION.

Hardware Group No. 03

For use on Door #(s):

104                      105                      106                      107

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	MFR
3	EA	HEAVYWEIGHT HINGE	BALL TIP BALL BEARING TO MATCH EXISTING	UNK
1	EA	PANIC HARDWARE	88-L-06	VON
1	EA	MORTISE/RIM CYLINDER	AS REQUIRED	SCH
1	EA	TO MATCH OWNER STANDARD	PERMANENT CORE	SCH
1	EA	OH STOP	100S	GLY
1	EA	SURFACE CLOSER	4040XP EDA MC WMS	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	IVE
1	EA	GASKETING	429D-S	ZER
1	EA	DOOR SWEEP	39D	ZER

EXISTING DOOR AND FRAME TO REMAIN. EXISTING HARDWARE TO BE REMOVED AND REPLACED WITH SPECIFIED HARDWARE. ANY HARDWARE THAT IS NOT REPLACED IS TO BE REMOVED. EXISTING DOOR AND FRAME TO BE REPAIRED AND FILLED TO CORRECT ANY DAMAGES AND FILL ANY HOLES OR PREP REMAINING FROM EXISTING HARDWARE THAT IS REMOVED. EXISTING CONDITIONS PREVENT DOOR FROM SWINGING FREELY. CONDITIONS TO BE EVALUATED AND DOOR, FRAME AND HARDWARE TO BE ADJUSTED AND INSTALLED TO ALLOW OPENING TO SWING FREELY. REPLACEMENT HINGES TO MATCH EXISTING SIZE, WEIGHT, QUANTITY AND LOCATION.

Hardware Group No. 04

For use on Door #(s):  
001-EXT

PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	MFR
6	EA	HEAVYWEIGHT HINGE	BALL TIP BALL BEARING TO MATCH EXISTING	UNK
1	EA	ELEC PANIC HARDWARE	RX-QEL-9927-EO-LBR-CON 24 VDC	VON
1	EA	ELEC PANIC HARDWARE	RX-QEL-9927-NL-OP-LBR-110MD-CON 24 VDC	VON
1	EA	RIM/MORTISE HOUSING	AS REQUIRED	SCH
1	EA	SFIC EVEREST CORE	TO MATCH OWNERS STANDARD	SCH
2	EA	OFFSET DOOR PULL	8190-0	IVE
2	EA	ARMORED DOOR LOOP	K-DL38B	KEE
1	EA	COORDINATOR	COR X FL	IVE
1	EA	AUTO OPERATOR	ED100 AS REQUIRED	DRM
2	EA	ACTUATOR, TOUCHLESS	AS REQUIRED	
2	EA	MOUNT BOX	AS REQUIRED	LCN
1	EA	GASKETING	429D-S	ZER
1	EA	POWER SUPPLY	PS902 900-4RL 120/240 VAC	VON
1	EA	PRGRAMMABLE 3-RELAY	BR3-X	BEA

OPENING TO BE SUPPLIED IN SATIN BRASS FINISH. EXISTING DOOR AND FRAME TO REMAIN. EXISTING HARDWARE TO BE REMOVED AND REPLACED WITH SPECIFIED HARDWARE. ANY HARDWARE THAT IS NOT REPLACED IS TO BE REMOVED. EXISTING DOOR AND FRAME TO BE REPAIRED AND FILLED TO CORRECT ANY DAMAGES AND FILL ANY HOLES OR PREP REMAINING FROM EXISTING HARDWARE THAT IS REMOVED. EXISTING CONDITIONS PREVENT DOOR FROM SWINGING FREELY. CONDITIONS TO BE EVALUATED AND DOOR, FRAME AND HARDWARE TO BE ADJUSTED AND INSTALLED TO ALLOW OPENING TO SWING FREELY. REPLACEMENT HINGES TO MATCH EXISTING SIZE, WEIGHT, QUANTITY AND LOCATION.

DUE TO UNIQUE STYLE OF OPENING AUTO OPERATOR CANNOT BE MOUNTED WITHOUT A SPECIAL MOUNTING. A PLATE WILL BE NEEDED TO RUN ACROSS THE FULL LENGTH OF THE DOOR FROM FRAME JAMB TO FRAME JAMB TO MOUNT THE OPERATOR TO. LCN DOES NOT HAVE SPECIFIC TEMPLATING FOR THIS OPENING HOWEVER LCN TECH SUPPORT CAN ASSIST IN EXPLAINING HOW TO MOUNT AND FULL PLATE NEEDED. AUTO OPERATOR WILL NEED TO BE SIZED SPECIFIC FOR THIS OPENING AS WELL. EXISTING ASTRAGAL TO REMAIN.

Hardware Group No. 05

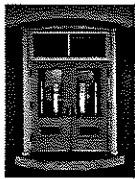
For use on Door #(s):  
001-INT

PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	MFR
6	EA	HEAVYWEIGHT HINGE	BALL TIP BALL BEARING TO MATCH EXISTING	UNK
2	EA	OFFSET DOOR PULL	8190-0	IVE
2	EA	PUSH PLATE	8200 4" X 16"	IVE
2	EA	ARMORED DOOR LOOP	K-DL38B	KEE
1	EA	COORDINATOR	COR X FL	IVE
1	EA	AUTO OPERATOR	ED100 AS REQUIRED	DRM
2	EA	ACTUATOR, TOUCHLESS	AS REQUIRED	
2	EA	MOUNT BOX	AS REQUIRED	LCN
1	EA	POWER SUPPLY	PS902 900-4RL 120/240 VAC	VON
1	EA	PRGRAMMABLE 3-RELAY	BR3-X	BEA

OPENING TO BE SUPPLIED IN SATIN BRASS FINISH. EXISTING DOOR AND FRAME TO REMAIN. EXISTING HARDWARE TO BE REMOVED AND REPLACED WITH SPECIFIED HARDWARE. ANY HARDWARE THAT IS NOT REPLACED IS TO BE REMOVED. EXISTING DOOR AND FRAME TO BE REPAIRED AND FIILLED TO CORRECT ANY DAMAGES AND FILL ANY HOLES OR PREP REMAINING FROM EXISTING HARDWARE THAT IS REMOVED. EXISTING CONDITIONS PREVENT DOOR FROM SWINGING FREELY. CONDITIONS TO BE EVALUATED AND DOOR, FRAME AND HARDWARE TO BE ADJUSTED AND INSTALLED TO ALLOW OPENING TO SWING FREELY. FLOOR CONDITIONS ARE A PRIMARY OBSTACLE TO LEFT HAND DOOR SWINGING PROPERLY. REPLACEMENT HINGES TO MATCH EXISTING SIZE, WEIGHT, QUANTITY AND LOCATION.

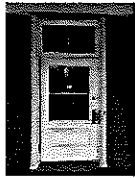
END OF SECTION



EXISTING DOOR 101  
Scale: N.T.S.

EXISTING DOOR 102  
Scale: N.T.S.

EXISTING DOOR 103  
Scale: N.T.S.



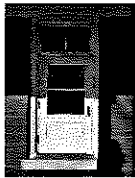
EXISTING DOOR 104  
Scale: N.T.S.

EXISTING DOOR 105  
Scale: N.T.S.



EXISTING DOOR 106  
Scale: N.T.S.

EXISTING DOOR 107  
Scale: N.T.S.



EXISTING DOOR 108  
Scale: N.T.S.

EXISTING DOOR 109  
Scale: N.T.S.

**ALTERNATES**

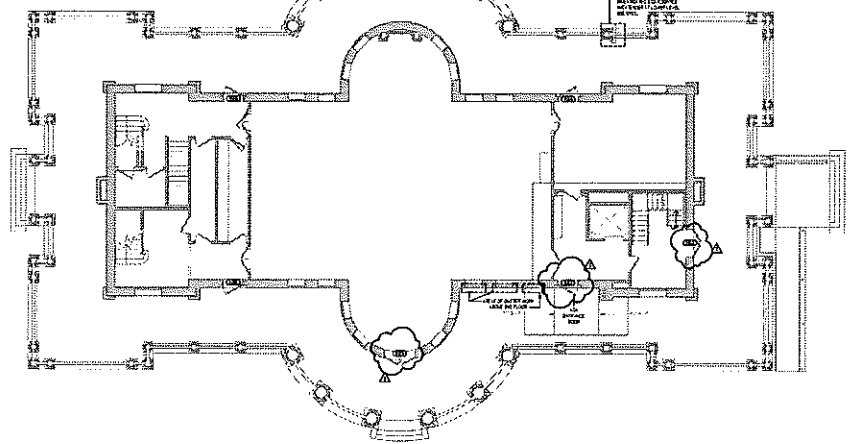
- ALTERNATE 1. IN. UPGRADE FROM GALV. TO STAINLESS STEEL. VIEW SEE STRUCTURAL DRAWING FOR DETAILS.
- ALTERNATE 2. IN. IN. REPLACE EXISTING JOINTS W/ GRANULATED BEDDING AT BOTTOM YELLOW PINE. SEE STRUCTURAL DRAWING FOR DETAILS.
- ALTERNATE 3. IN. IN. REPLACE EXISTING JOINTS W/ GRANULATED BEDDING AT BOTTOM YELLOW PINE. SEE STRUCTURAL DRAWING FOR DETAILS.
- ALTERNATE 4. IN. IN. REPLACE EXISTING JOINTS W/ GRANULATED BEDDING AT BOTTOM YELLOW PINE. SEE STRUCTURAL DRAWING FOR DETAILS.
- ALTERNATE 5. IN. IN. REPLACE EXISTING JOINTS W/ GRANULATED BEDDING AT BOTTOM YELLOW PINE. SEE STRUCTURAL DRAWING FOR DETAILS.
- ALTERNATE 6. IN. IN. REPLACE EXISTING JOINTS W/ GRANULATED BEDDING AT BOTTOM YELLOW PINE. SEE STRUCTURAL DRAWING FOR DETAILS.
- ALTERNATE 7. IN. IN. REPLACE EXISTING JOINTS W/ GRANULATED BEDDING AT BOTTOM YELLOW PINE. SEE STRUCTURAL DRAWING FOR DETAILS.
- ALTERNATE 8. IN. IN. REPLACE EXISTING JOINTS W/ GRANULATED BEDDING AT BOTTOM YELLOW PINE. SEE STRUCTURAL DRAWING FOR DETAILS.
- ALTERNATE 9. IN. IN. REPLACE EXISTING JOINTS W/ GRANULATED BEDDING AT BOTTOM YELLOW PINE. SEE STRUCTURAL DRAWING FOR DETAILS.
- ALTERNATE 10. IN. IN. REPLACE EXISTING JOINTS W/ GRANULATED BEDDING AT BOTTOM YELLOW PINE. SEE STRUCTURAL DRAWING FOR DETAILS.

**REPAIR SCOPE**

- 1. REPAIR PLASTER & WATER DAMAGE.
- 2. REPAIR EXISTING JOINTS & INSTALL TOP OF NEW YELLOW PINE EXTENDING DOORS ON FIRST FLOOR.
- 3. REPLACE PLASTER & WATER DAMAGE TO EXISTING DOORS & TRUNCATED EXTENSION PANELS.
- 4. REPAIR & PAINT EXISTING DOORS TO MATCH EXISTING.
- 5. REPAIR & PAINT EXISTING DOORS TO MATCH EXISTING.
- 6. REPAIR & PAINT EXISTING DOORS TO MATCH EXISTING.
- 7. REPAIR & PAINT EXISTING DOORS TO MATCH EXISTING.
- 8. REPAIR & PAINT EXISTING DOORS TO MATCH EXISTING.
- 9. REPAIR & PAINT EXISTING DOORS TO MATCH EXISTING.
- 10. REPAIR & PAINT EXISTING DOORS TO MATCH EXISTING.

**DOOR SCHEDULE**

DOOR NUMBER	DOOR TYPE	MATERIAL	AL.	WIDTH	HEIGHT	THROUSE	FRAME			DETAILS			MFG	WARE	NOTES	
							TYPE	MATERIAL	HEAD	jamb	sill	TYPE				TYPE
101	SWHT	SWHT	3/4"	36"	80"	0"	SWHT	SWHT	SWHT	SWHT	SWHT	SWHT	SWHT	SWHT	SWHT	REPLACE EXISTING PLASTER & WATER DAMAGE TO EXISTING DOOR & TRUNCATED EXTENSION PANELS.
102	SWHT	SWHT	3/4"	36"	80"	0"	SWHT	SWHT	SWHT	SWHT	SWHT	SWHT	SWHT	SWHT	SWHT	REPLACE EXISTING PLASTER & WATER DAMAGE TO EXISTING DOOR & TRUNCATED EXTENSION PANELS.
103	SWHT	SWHT	3/4"	36"	80"	0"	SWHT	SWHT	SWHT	SWHT	SWHT	SWHT	SWHT	SWHT	SWHT	REPLACE EXISTING PLASTER & WATER DAMAGE TO EXISTING DOOR & TRUNCATED EXTENSION PANELS.
104	SWHT	SWHT	3/4"	36"	80"	0"	SWHT	SWHT	SWHT	SWHT	SWHT	SWHT	SWHT	SWHT	SWHT	REPLACE EXISTING PLASTER & WATER DAMAGE TO EXISTING DOOR & TRUNCATED EXTENSION PANELS.
105	SWHT	SWHT	3/4"	36"	80"	0"	SWHT	SWHT	SWHT	SWHT	SWHT	SWHT	SWHT	SWHT	SWHT	REPLACE EXISTING PLASTER & WATER DAMAGE TO EXISTING DOOR & TRUNCATED EXTENSION PANELS.
106	SWHT	SWHT	3/4"	36"	80"	0"	SWHT	SWHT	SWHT	SWHT	SWHT	SWHT	SWHT	SWHT	SWHT	REPLACE EXISTING PLASTER & WATER DAMAGE TO EXISTING DOOR & TRUNCATED EXTENSION PANELS.
107	SWHT	SWHT	3/4"	36"	80"	0"	SWHT	SWHT	SWHT	SWHT	SWHT	SWHT	SWHT	SWHT	SWHT	REPLACE EXISTING PLASTER & WATER DAMAGE TO EXISTING DOOR & TRUNCATED EXTENSION PANELS.
108	SWHT	SWHT	3/4"	36"	80"	0"	SWHT	SWHT	SWHT	SWHT	SWHT	SWHT	SWHT	SWHT	SWHT	REPLACE EXISTING PLASTER & WATER DAMAGE TO EXISTING DOOR & TRUNCATED EXTENSION PANELS.
109	SWHT	SWHT	3/4"	36"	80"	0"	SWHT	SWHT	SWHT	SWHT	SWHT	SWHT	SWHT	SWHT	SWHT	REPLACE EXISTING PLASTER & WATER DAMAGE TO EXISTING DOOR & TRUNCATED EXTENSION PANELS.



11 FIRST FLOOR PLAN  
Scale: 1/8" = 1'-0"

ROGER WILLIAMS PARK  
CASINO REPAIRS  
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Structures North  
ARCHITECTS & ENGINEERS  
1000 BROADWAY, SUITE 1000  
PROVIDENCE, RI 02908



DATE	10/15/2022
SCALE	AS SHOWN
PROJECT	ROGER WILLIAMS PARK CASINO REPAIRS
CLIENT	ROGER WILLIAMS PARK CASINO
ARCHITECT	BREWSTER THORNTON GROUP ARCHITECTS LLP
ENGINEER	STRUCTURES NORTH ARCHITECTS & ENGINEERS

FIRST FLOOR PLAN & DOOR SCHEDULE

A1.1