

Addendum

PROJECT: Sycamore Stadium Right Field Deck

ADDENDUM # 1

DATE: 06/02/2025

TO: ALL INTERESTED BIDDERS OF RECORD

BID NUMBER: B0028574

This Addendum # 1 forms part of the Contract Documents and modifies the original Bidding Documents. Acknowledge receipt of this addendum in the space provided on the Bid Form. Failure to acknowledge this addendum may subject Bidder to disqualification.

GENERAL INFO

1. The Bid Date remains unchanged set for June 18, 2025 due into ISU Procurement at 2:00pm.

SPECIFICATION REVISIONS

1. A revised Section 00 01 10 Table of Contents is issued adding Sections to the Index not listed but included in the Specifications. (03 11 13 Concrete Form Work and 26 05 02 Selective Demolition)
2. The following Division 08 Sections are issued that were missing from the Specifications
 - a. 08 11 13 Hollow Metal Doors and Frames
 - b. 08 13 13 Standard Steel Doors
 - c. 08 71 00 Finish Hardware

DRAWING REVISIONS

1. None

QUESTION AND ANSWERS

Q None to Date
A

OWNER COMMENT

1. None

End of Addendum # 1

attachments

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08 11 13
HOLLOW METAL DOORS AND FRAMES (Issued with Addendum # 1)

PART 1 – GENERAL

1.01 WORK INCLUDED

- A. Furnish all labor, materials, services, equipment and apparatus whether necessary or incidental to complete installation of all hollow metal doors and frames required for the project as shown on the Drawings and specified herein.
- B. Non-rated steel doors

1.02 RELATED WORK SPECIFIED ELSEWHERE

- A. Division 00 - Bidding and Contract Requirements, including the General Conditions of the Contract
- B. Division 01 - General Requirements
- C. Section 06 10 00 - Rough Carpentry
- D. Section 07 92 00 - Joint Sealants
- E. Section 08 14 16 - Flush Wood Doors
- F. Section 08 71 00 - Finish Hardware
- G. Section 08 81 00 - Glass and Glazing
- H. Section 09 21 16 - Gypsum Wallboard Systems
- I. Section 09 91 23 - Painting and Finishing

1.03 SITE INSPECTION

- A. This Contractor shall visit the site and become thoroughly familiar with all conditions. Refer to Division 1 for site examination requirements and procedures.

1.04 REFERENCE STANDARDS

- A. ANSI/S.D.I. 100 - RECOMMENDED SPECIFICATIONS STANDARD STEEL DOORS AND FRAMES, Steel Door Institute.
- B. ANSI A115 - STANDARD SPECIFICATION FOR DOOR AND FRAME PREPARATION FOR HARDWARE, American National Standards Institute.
- C. Thermal rated assemblies ASTM C236-89 or ASTM C976-90

1.05 SUBMITTALS

- A. Manufacturer's written certification that materials meet Specification requirements
- B. Submit under provisions of Section 01 32 00
- C. Shop Drawings: Indicate door elevations, internal reinforcement, closure method, and cutouts for glazing, and finish.
- D. Product Data: Indicate door configurations, location of cut-outs for hardware reinforcement.
- E. Manufacturer's installation instructions: indicate special installation instructions.
- F. Manufacturer's certificate: Certify that products meet or exceed specified requirements.

1.06 QUALITY ASSURANCE

- A. Installer: Company specializing in hollow metal door and frame work of comparable scope with a minimum of three (3) years experience.

1.07 DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store, protect, and handle products to site under provisions of Section 01600.
- B. Accept doors on site in manufacturer's packaging. Inspect for damage.

HOLLOW METAL DOORS AND FRAMES (Issued with Addendum # 1)

- C. Break seal on-site to permit ventilation.

1.08 FIELD MEASUREMENTS

- A. Verify that field measurements are as indicated on shop drawings.

1.09 COORDINATION

- A. Coordinate the work with door opening construction, door frame and door hardware installation.

PART 2 - PRODUCTS

2.01 MATERIALS - INTERIOR DOORS - GENERAL

- A. Sheet Steel: Commercial quality carbon steel, cold-rolled, annealed, and free from scale, pitting, rust or other defects - ASTM A366
 - 1. Gauges:
 - a. Interior frames - 18 gauge, mitered corners.
 - b. Interior doors - (Non-rated): SDI-100 Grade II, 18 gauge, heavy duty 1-3/4" (44mm) (Level B), Model 3 - Seamless .
 - c. Reinforcement for hardware - in accordance with Steel Door Institute Standard (S.D.I.) 100, Table IV.
 - d. Glass Moldings - 20 gauge.
- B. Primer:
 - 1. For non-galvanized steel, primer shall be manufacturer's standard rust-resistant metallic or phenol-resin primer.
 - 2. For galvanized steel, primer shall be zinc dust oxide primer, such as Porter No. 299 Zinc-dust Primer.
 - 3. Air dried.
- C. Core Filler Material:
 - 1. Non-insulated doors - manufacturer's standard cardboard honeycomb.
 - 2. Core material shall completely fill the inside of the door and be laminated to both inside faces of the panels.
- D. Acceptable manufacturers:
 - 1. Steelcraft of Masco Industries
 - 2. Republic Builders Products
 - 3. Ceco Corporation.
 - 4. Curries of L.B. Foster Co.
 - 5. Fenestra Corporation
 - 6. Emerson Engineering Company, Inc.

PART 3 – EXECUTION

3.01 FABRICATION

- A. Frames shall be set up, arc welded and ground smooth and shall have spreaders attached. Provide frame anchors of the proper type for adjoining construction. No less than three (3) wall anchors per jamb or frames to 7'-4" high, four (4) anchors per jamb for frames over 7'-4" high.

HOLLOW METAL DOORS AND FRAMES (Issued with Addendum # 1)

- B. Doors shall be full flush type, with seams finished so as to be invisible.
 - 1. Close top and bottom edges of door with steel channel, minimum 18 gauge, extending full width of door, and spot welded to both faces.
 - 2. Provide bevel on swing side.
 - 3. Provide adequate bracing.
 - 4. Fabricate doors with hardware reinforcement welded in place.
- C. Provide for hardware specified in Section 087100 - Finish Hardware. Provide reinforcing for hardware in accordance with ANSI A115.
- D. Provide UL labels of non-rusting metal attached with pop rivets on both doors and frames where indicated. Unless otherwise scheduled, "B label" shall be "1-1/2 hour B label".
- E. Provide screw-on glazing stops with mitered corners. Locate stops on non-security side of opening.
- F. Finishing:
 - 1. Thoroughly clean all contaminants from surface by washing with clean solvent and wiping with clean cloths.
 - 2. Treat non-galvanized items with phosphate pretreatment.
 - 3. All doors and frames shall receive a factory applied primer.
 - 4. All concealed parts of frames to be installed in masonry walls shall be coated with bituminous paint.
- G. Furnish galvanized steel shims as required to maintain 1/8" clearance between frame and door and between pairs of doors.
- H. Where indicated, provide inserted type sightproof stationary metal louvers.
- I. For openings which are to be equipped with electric door locks, modify standard frame and door construction as is necessary to accommodate the electric locks.
- J. Steel sheet: Galvanized to ASTM A525 G60.

3.02 INSTALLATION

- A. Anchor work securely to adjacent construction.
- B. Set frames accurately, plumb and square. Brace until attached to adjacent construction.
- C. Install doors in accordance with ANSI/SDI-100 and DHI.
- D. Do not use cardboard or other unspecified material for shims.
- E. Install metal doors and frames in accordance with the following standards published by the Steel Door Institute: Frames, SDI 105; Hardware, SDI 107; Doors, SDI 100.
- F. Frames installed in existing masonry walls shall be grouted in on both sides to provide a sealed installation. Grout used shall meet rating of the door and frame assembly.
- G. Coordinate installation of doors with installation of frames and hardware specified in Section 08 71 00.

3.03 DISPOSAL

- A. All waste materials shall be properly and legally recycled or disposed of off the site by the Contractor. Burning on the site will not be allowed.

3.04 EXAMINATION

- A. Verify substrate conditions.

HOLLOW METAL DOORS AND FRAMES (Issued with Addendum # 1)

- B. Verify that opening sizes and tolerances are acceptable. ERECTION TOLERANCES
- C. Maximum Diagonal Distortion: 1/16 inch (1.5 mm) measured with straight edge, corner to corner.

3.05 ADJUSTING

- A. Adjust work under provisions of Section 01 77 00.
- B. Adjust door for smooth and balanced door movement.

END OF SECTION 08 11 13

STANDARD STEEL DOORS (Issued with Addendum # 1)

PART 1 – GENERAL

1.01 SECTION INCLUDES

- A. Non-rated steel doors.
- B. Rated steel doors

1.02 REFERENCES

- A. ANSI A117.1 - Specifications for making buildings and facilities accessible to and usable by physically handicapped people.
- B. ANSI/SDI-100 Standard steel doors and frames.
- C. ASTM A525 - Steel Sheet, Zinc-coated (galvanized) by the hot-dip process.
- D. ASTM E152 - methods of fire tests or door assemblies.
- E. Door hardware institute (DHI) - The installation of Commercial Steel Doors and steel frames, insulated Steel doors in wood frames and builder's hardware.
- F. NFPA 80 - Fire Doors and Windows.
- G. NFPA 252 - Fire Tests for Door Assemblies.
- H. UL 10B - Fire Tests of Door Assemblies.

1.03 SUBMITTALS

- A. Submit under provisions of Section 01 32 00.
- B. Shop Drawings: Indicate door elevations, internal reinforcement, closure method, and cut-outs for glazing, and finish.
- C. Product Data: Indicate door configurations, location of cut-outs for hardware reinforcement.
- D. Manufacturer's installation instructions: indicate special installation instructions.
- E. Manufacturer's certificate: Certify that products meet or exceed specified requirements.

1.04 QUALITY ASSURANCE

- A. Conform to requirements of ANSI/SDI-100 and ANSI A117.1.

1.05 QUALIFICATIONS

- A. Manufacturer: Company specializing in manufacturing the Products specified in this section with minimum three years experience.

1.06 REGULATORY REQUIREMENTS

- A. Fire Rated Door Construction: Conform to ASTM E152, NFPA 252, UL 10B.
- B. Fire Rated Door Construction: Rate of rise of 450 F degrees (250 C degrees) across door thickness.
- C. Installed Door Assembly: Conform to NFPA 80 for fire rated class as indicated.

1.07 DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store, protect, and handle products to site under provisions of Section 01 60 00.
- B. Accept doors on site in manufacturer's packaging. Inspect for damage.
- C. Break seal on-site to permit ventilation.

1.08 FIELD MEASUREMENTS

- A. Verify that field measurements are as indicated on shop drawings.

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STANDARD STEEL DOORS (Issued with Addendum # 1)

1.09 COORDINATION

- A. Coordinate the work with door opening construction, door frame and door hardware installation.

PART 2 – PRODUCTS

2.01 DOOR MANUFACTURERS

- A. Ceco Corporation
- B. Curries Manufacturing, Inc.
- C. Fenestra Corporation
- D. Steelcraft/Div. American Standard Co.
- E. Republic Builders Products Corp.
- F. Emerson Engineering Company, Inc.

2.02 DOORS

- A. Interior Doors:
 - 1. Grade II - Heavy Duty 1-3/4 inches (44mm) (Level B):
 - 2. Model 3 - Seamless - Hollow Steel Construction
- B. Exterior Doors:
 - 1. Grade III - Extra heavy-duty 1-3/4 inches (44mm) (Level A):
 - 2. Model 3 - Seamless - Hollow Steel Construction
- C. Exterior Doors (Thermally Broken): SDI-100 Grade II Model 1: 16 ga. galvanized steel sheet faces.
- D. Interior Doors: (Non-rated): SDI-100 Grade II. 18 ga. sheet faces.
- E. Interior Doors: (Fire-rated): SDI-100 Grade II. 18 ga. sheet faces.

2.03 DOOR CONSTRUCTION

- A. Face: Steel sheet in accordance with ANSI/SDI-100.
- B. Core: Cardboard honeycomb.
- C. Thermal Insulated Door: Total insulation R value of 4 (RSI, measure in accordance with ASTM C236).

2.04 ACCESSORIES

- A. Removable Stops: Rolled steel channel shape, mitered corners; prepared for countersink style tamper proof screws.
- B. Primer: Zinc chromate type.

2.05 FABRICATION

- A. Astragals for Double Doors: Steel Z shaped, specifically for double doors.
- B. Fabricate doors with hardware reinforcement welded in place.
- C. Attach fire rated label to each door unit.
- D. Close top and bottom edge of exterior doors with flush end closure. Seal joints watertight.
- E. Configure exterior doors with special profile to receive recessed weatherstripping.
- F. All exterior doors to be galvanized (G60).

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STANDARD STEEL DOORS (Issued with Addendum # 1)

2.06 FINISH

- A. Steel sheet: Galvanized to ASTM A525 G60.
- B. Primer: Air dried.

PART 3 – EXECUTION

3.01 EXAMINATION

- A. Verify substrate conditions.
- B. Verify that opening sizes and tolerances are acceptable.

3.02 INSTALLATION

- A. Install doors in accordance with ANSI/SDI-100 and DHI.
- B. Coordinate installation of glass and glazing.
- C. Coordinate installation of doors with installation of frames and hardware specified in Section 08 71 00 and Section 08 71 01.
- D. U.L. Labels are to be of non-rusting metal attached with pop rivets. Do not paint over label.

3.03 ERECTION TOLERANCES

- A. Maximum Diagonal Distortion: 1/16 inch (1.5 mm) measured with straight edge, corner to corner.

3.04 ADJUSTING

- A. Adjust work under provisions of Section 01 77 00.
- B. Adjust door for smooth and balanced door movement.

END OF SECTION 08 13 13

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STANDARD STEEL DOORS (Issued with Addendum # 1)

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FINISH HARDWARE (Issued with Addendum # 1)

PART 1 – GENERAL

1.01 SUMMARY

- A. Section Includes: Basic finish hardware requirements.
- B. Related Sections:
 - 1. Section 06 20 00 - Finish Carpentry: Installation of finish hardware.
 - 2. Section 08 11 13 - Hollow Metal Doors and Frames.
 - 3. Section 08 14 16 - Wood Doors.
 - 4. Section 08 14 29 - Veneer Wood Doors
 - 5. Section 08 71 01 - Hardware Specification Guidelines
- C. Specific Omissions: Hardware for the following is specified or indicated elsewhere.
 - 1. Windows
 - 2. Cabinets of all kinds, including open wall shelving and locks.
 - 3. Signs, except as noted.
 - 4. Toilet accessories of all kinds including grab bars.
 - 5. Rough hardware.
 - 6. Folding partitions, except cylinders where detailed.
 - 7. Sliding aluminum doors.
 - 8. Angle sill threshold.
 - 9. Corner guards.

1.02 SUBMITTALS

- A. Submit in electronic format (PDF) the hardware schedule at earliest possible date prior to delivery of hardware. Organize schedule into "Hardware Sets" with an index of doors and heading, indicating complete designations of every item required for each door or opening. Include the following information:
 - 1. Type, style, function, size, quantity and finish of each hardware item.
 - 2. Name, part number and manufacturer of each item.
 - 3. Location of hardware set cross referenced to indications on drawings both on floor plans and in door schedule.
 - 4. Explanation of all abbreviations, symbols, and codes contained in schedule.
 - 5. Mounting locations for hardware.
 - 6. Door and frame sizes and materials.
 - 7. Submit manufacture's technical data and installation instructions for the electronic hardware.
 - 8. Provide samples of hardware for Owner review.
 - 9. Catalog cuts.
- B. Templates: Where required, furnish hardware templates to each fabricator of doors, frames and other work to be factory-prepared for the installation of hardware.

1.03 QUALITY ASSURANCE

- A. Qualifications:
 - 1. Obtain each kind of hardware (latch and locksets, exit devices, hinges, and closers) from only one manufacturer, although several may be indicated as offering products complying with requirements.

FINISH HARDWARE (Issued with Addendum # 1)

2. Hardware supplier shall be a direct factory contract supplier who has in his employment a certified architectural hardware consultant (AHC) who is available at all reasonable times during the course of the Work, and for project hardware consultation to the Owner, Architect, and Contractor.

- B. Schedule Designations: Except as otherwise indicated, the use of one manufacturer's numeric designation system in schedules does not imply that another manufacturer's products will not be acceptable, unless they are not equal in design, size, weight, finish function, or other quality of significance. See 1.02 A for substitutions.
- C. Exit Doors: Openable at all times from the inside without the use of a key or any special knowledge or effort.
- D. Fire-rated openings: Provide hardware for fire-rated openings in compliance with NFPA Standard No. 80. This requirement takes precedence over other requirements for such hardware. Provide only such hardware which has been tested and listed by UL for the type and size of door required, and complies with the requirements of the door and the door frame labels. Latching hardware, door closers, ball bearing hinges, and seals are required whether or not listed in the Hardware schedule.
 - 1. Where panic exit devices are required on fire-rated doors, provide supplementary marking on door UL label on exit device indicating "Fire Exit Hardware."

1.04 DELIVERY, STORAGE, AND HANDLING

- A. Acceptance at the Site: Individually package each unit of finish hardware complete with proper fastening and appurtenances, clearly marked on the outside to indicate contents and specific locations in the Work.
- B. Deliver packaged hardware items at the times and to the locations (shop or field) for installation, as directed by the Contractor.

1.05 PROJECT CONDITIONS

- A. Coordination: 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. Upon request, check the Shop Drawings for doors and entrances to confirm that adequate provisions will be made for the proper installation of hardware.

1.06 PRE-INSTALLATION MEETING

- A. Schedule a hardware pre-installation meeting on site and discuss the installation of all types of hardware on the Project.
- B. Meeting attendees shall be notified seven (7) days in advance and shall include the Architect, Contractor Hardware Installers, all Manufacturers Representative, any other effected sub-contractor or supplier and the Owner's Locksmith.

1.07 WARRANTY

- A. Provide guarantee from hardware supplier as follows:
 - 1. Closers: Ten years; except electronic closers: Two years.
 - 2. Exit Devices & Locksets: Three years
 - 3. All other Hardware: Two years.

PART 2 – PRODUCT

2.01 MANUFACTURERS

- A. The approved Manufacturers are listed in every item of this Part 2 Specification Section. These Manufacturers are based on Owner's building standards for door hardware. The Owner maintains this hardware and is currently stocking replacement parts.
- B. All others must submit for approval a minimum of ten (10) calendar days prior to Bid Date.

2.02 HANGING DEVICES

A. Mortise Hinge

- 1. Heavy Weight Exterior
 - a. Stanley FBB199
 - b. McKinney TA3386
 - c. Hager BB1199
- 2. Standard Weight Exterior
 - a. Stanley FBB191
 - b. McKinney TA2314
 - c. Hager BB1191
- 3. Heavy Weight Interior
 - a. Stanley FBB168
 - b. McKinney TA3786
 - c. Hager BB1168
- 4. Standard Weight Interior
 - a. Stanley FBB179
 - b. McKinney TA2714
 - c. Hager BB1279

Notes:

- Provide DHI recommended size for height and width of door.
- Provide proper quantity of hinges for height of door.
- NRP (Non Removable Pin) at Reverse bevel locked Doors.
- Hinge tips to match existing for additions and alterations to existing buildings.
- Field verify size and finish of existing for door only replacement projects.

B. Continuous Hinge

- 1. Full Surface
 - a. Stanley 664HD
 - b. Select SL21HD
 - c. Hager 780-057HD
 - d. Pemko _ FS
- 2. Full Mortise- Hollow Metal Doors
 - a. Stanley 662HD
 - b. Select SL24HD
 - c. Hager 780-224HD
 - d. Pemko _ FM

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FINISH HARDWARE (Issued with Addendum # 1)

3. Full Mortise- Wood Doors
 - a. Stanley 661HD
 - b. Select SL11HD
 - c. Hager 780-111HD
 - d. Pemko FM _ SLF / SLI

Notes:

- Continuous hinges are to be used at exterior openings and vestibule entrances only.
- Continuous hinges are NOT to be used at interior openings other than vestibules for exterior entrances
- Use continuous hinges on perimeter doors unless there is an historic requirement.
- Use continuous hinges on interior high cycle openings.
- Field verify requirements for Pivots and Floor Closers for additions and alterations to existing buildings.
- Avoid floor closers and pivots on new construction.

2.03 LOCKSETS

A. Mortise Lock

1. Best Series 45H (*No Substitutions*)
 - a. Design 15J Full Escutcheon
 - b. Design 15H Sectional Trim
2. Function Designation
 - a. Passage Best: N
 - b. Office Best: AT
 - c. Privacy Best: LT
 - d. Privacy – Staff Best: H-VIN
 - e. Storeroom Best: D

Note: Provide lock functions as required for project and space as appropriate

B. Electronic Mortise Lock

1. Best Series 45HW (*No Substitutions*)
 - a. Design 15J Full Escutcheon
 - b. Design 15H Sectional Trim
2. Function Designation
 - a. Fail Secure Best: DEU
 - b. Fail Safe Best: DEL

Note: Specify quick connect wire connections for low voltage terminations.

Best “C”

Corbin Russwin “Lynx”

C. Cylindrical Lock

1. Best Series 9K (*No Substitutions*)
 - a. Design 15D Flat Lever w/Return
 - b. Design 16D Straight Lever

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2. Function Designation

- a. Passage Best: N
- b. Office Best: AB
- c. Privacy Best: L
- d. Privacy – Staff Best: H
- e. Storeroom Best: D

Note: Provide lock functions as required for project and space as appropriate

D. Electronic Cylindrical Lock

1. Best Series 9K (No Substitutions)

- a. Design 15D Full Escutcheon
- b. Design 16D Sectional Trim

2. Function Designation

- a. Fail Secure Best: DEU
- b. Fail Safe Best: DEL

Note: Specify quick connect wire connections for low voltage terminations.
Best "C"

E. Cylinders

- 1. Best Mortise Cylinders 1E Series (*No Substitutions*)
- 2. Rim Cylinders 12E Series (*No Substitutions*)

Note: Provide as necessary to operate locking hardware

F. Key System

1. Best (*No Substitutions*)

- a. Small Format Interchangeable Core
- b. 7-pin Best SFIC

Note: Cores must be supplied as part of the construction hardware

2.04 EXIT DEVICES

A. Exit Devices

1. Precision Apex Series 2000

- | | |
|---|--------|
| a. Rim Device | 2100 |
| b. Rim Device–Fire Rated | FL2100 |
| c. Surface Vert Rod Device | 2200 |
| d. Surface Vert Rod–Fire Rated | FL2200 |
| e. Mortise Device | 2300 |
| f. Mortise Device–Fire Rated | FL2300 |
| g. Rim Device–Narrow Stile | 2400 |
| h. Rim Device–Narrow Stile–Fire Rated | FL2400 |
| i. Con Vert Rod Device–Narrow Stile | 2600 |
| j. Con Vert Rod Device -Narrow Stile–Fire Rated | FL2600 |
| k. Con Vert Rod Device–Wood Door | 2700 |
| l. Con Vert Rod Device -Wood Door–Fire Rated | FL2700 |
| m. Con Vert Rod Device | 2800 |
| n. Con Vert Rod Device–Fire Rated | FL2800 |

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2. **Von Duprin Series 35 / 98**

a. Rim Device	98
b. Rim Device–Fire Rated	98-F
c. Surface Vert Rod Device	9827
d. Surface Vert Rod-Fire Rated	9827-F
e. Mortise Device	9875
f. Mortise Device-Fire Rated	9875-F
g. Rim Device-Narrow Stile	35A
h. Rim Device–Narrow Stile-Fire Rated	35A-F
i. Con Vert Rod Device-Narrow Stile	3347A
j. Con Vert Rod Device -Narrow Stile-Fire Rated	3347A-F
k. Con Vert Rod Device-Wood Door	9847WDC
l. Con Vert Rod Device -Wood Door-Fire Rated	9847WDC-F
m. Con Vert Rod Device	9847
n. Con Vert Rod Device-Fire Rated	9847-F

3. **Panic Device Function Designation**

a. Exit Only	Precision: 01	Von Duprin: EO
b. Pull Only	Precision: 02	Von Duprin: DT
c. Key Retracts Latch Bolt	Precision: 03	Von Duprin: NL
d. Lever Locked / Unlocked	Precision: 08	Von Duprin: L
e. Lever Always Free	Precision: 15	Von Duprin: L-BE

Note: Precision Apex 2000 Series

- For use on new construction projects.
- “A” Lever design on interior applications.
- “A” Pull design on exterior applications.
- Field verify existing pull design on projects where there is an historic requirement.
- Hex Key Dogging on Non-Fire Rated applications.
- Single Doors – Rim style device preferred over mortise panics
- Pairs of Doors – (2) Rim style devices and a Mullion.
- Mullions to be Key Removable.
- Latch bolts on Electrified Exit Devices to use Motor retraction not solenoid retraction unless matching existing

B. Exit Device Accessories

1. Lockdown Panic Button
 - a. Trimco LDH100

Note: Must be used in conjunction with all non-fire rated exit devices

2.05 MECHANICAL CLOSING DEVICES

A. Surface Closer

1. Dorma 8900
2. LCN 4040XP
3. Stanley/Dormakaba Commercial Hdw QDC100

Note:

- Proper Arm as Required.
- Provide heavy duty EDA Parallel arms.
- Provide SNB at All closers.
- All door frames to be reinforced.

B. Concealed Closers

1. Dorma RTS88 series
 - a. RTS25 model – Aluminum Storefront Openings
 - b. RTS27 model - Hollow Metal Openings
2. LCN 2000 series
 - a. 2010/2030 models

2.06 AUTOMATIC OPERATORS

A. Low Energy- Automatic Operator

1. Dorma ED900
2. LCN 4642

Note:

- Push Plate Actuation
- Provide where noted ADA required on drawings

2.06 STOPS & HOLDERS

A. Door Stops

1. Trimco
2. Rockwood
3. Hager
4. Ives
5. Design Hardware

Note:

- Allow for maximum swing of door.
- Can use both floor stops and wall stops
- Backing required at wall stop.

B. Overhead Stops

1. Dorma 700 / 900
2. Rixon 6-x / 9-x
3. Rockwood OH100 / OH900
4. Glynn Johnson 90 / 100

2.07 TRIM & ACCESSORIES

A. For the following items all Manufacturers are approved using their standard product for the item listed.

- | | |
|------------------|--|
| 1. Flat Goods | Hager, Ives, Rockwood, Design Hardware |
| 2. Threshold | National Guard, Pemko, Zero, Design Hardware |
| 3. Weather Seals | National Guard, Pemko, Zero, Design Hardware |
| 4. Door Sweeps | National Guard, Pemko, Zero, Design Hardware |
| 5. Smoke Seals | National Guard, Pemko, Zero, Design Hardware |

2.08 ELECTRONIC COMPONENTS

A. Power Transfer

1. Precision EPT-12C
2. Securitron EL-CEPT
3. Von Duprin EPT-10 CON

Note: Specify quick connect wire connections for low voltage terminations.

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- B. Door Position Switches
 - 1. Sargent 3280
 - 2. Security Door Controls DPS
 - 3. Securitron DPS
 - 4. RCI 9540

- C. Power Supplies
 - 1. Alarm Controls APS
 - 2. Security Door Controls 630
 - 3. Von Duprin PS
 - 4. Precision PS/RPS series
 - 5. RCI 10-series

2.09 ELECTRIC STRIKES

- A. Electric Strikes
 - 1. Dorma
 - 2. Best
 - 3. RCI
 - 4. Von Duprin

2.10 MISCELLANEOUS

- A. Pad Locks
 - 1. Best 21B series

Note: Weather Cover Required for Exterior Applications

2.11 MATERIALS

- A. Locksets: All locksets and latchsets shall be extra-heavy-duty cylindrical with Best 7-pin interchangeable core. Lockset and Cores to be of the same manufacturer to maintain complete lockset warranty. Locks to have solid shank with no opening for access to keyed lever keeper. Keyed lever to be protected by means of a break-away mechanism to prevent forced entry, when excessive torque is applied, a replaceable part will shear. Lock chassis must be through-bolted (outside of the lock chassis prep to prevent rotation of chassis after installation. Lock manufacturer shall provide a three-year warranty, in writing, to the Owner, along with three copies of the lock service manual. Strikes shall be 16 gauge curved brass, bronze or stainless steel with a 1" deep box construction, and have sufficient length to clear trim and protect clothing.
- B. Mortise type Locks and Latches shall be heavy-duty with hinged, anti-friction, 3/4 inch throw latchbolt with anti-friction piece made of self lubricating stainless steel. Functions and design as indicated on the hardware groups. Deadbolt functions shall be 1 inch projection made of hardened stainless steel. both deadbolt and latchbolt are to extend into the case a minimum of 3/8 inch when fully extended. Furnish locksets and latchsets with sufficient curved strike lip to protect door trim. Provide locksets with 7-pin interchangeable core cylinders. All mortise cylinders shall have a concealed internal set screw for securing the cylinder to the lockset. The internal set screw will be accessible only by removing the core from the cylinder body. Locksets and latchsets to have self-aligning, thru-bolted trim. Auxiliary deadlatch to be made of one piece stainless steel, permanently lubricated. Lever handles must be of forged or cast brass, bronze or stainless steel construction. Levers which contain a hollow cavity are not acceptable. Spindle to be such that if forced it will twist first, then break, thus preventing forced entry. Levers to be operated with a roller bearing spindle hub mechanism.
 - 1. Grade 1 Cylindrical Locks shall have minimum 9/16 throw. All deadbolts shall have 1-inch minimum throw.

PART 3 – EXECUTION

3.01 BASIC REQUIREMENTS

- A. Furnish all items of hardware required to complete the work in accordance with specifications and plans.
- B. Carefully inspect Project for the extent of the finish hardware required to complete the Work. Where there is a conflict between these Specification and the existing hardware furnish finish hardware to specification.
- C. Door and frame prep
 - 1. Before hardware installation, verify that all doors and frames are properly prepared to receive the specified hardware. Hollow metal frames shall be prepared for ANSI strike plates per A115.1-2 (4-7/8" high); hinge preps will be mortised and reinforced with a minimum of 10 gauge reinforcement material; minimum of 14 gauge reinforcement material for closer and all surface mounted hardware. Hollow metal doors shall be properly prepared and reinforced with a minimum of 16 gauge material for either mortised or cylindrical locks as specified. All hollow metal doors receiving door closers or other surface mounted hardware to have 14 gauge reinforcement. The use of sex bolts is mandatory. Wood doors shall be factory prepared to receive the scheduled hardware.
- D. Hardware Finishes
 - 1. The finish for the hardware items will be project specific. Field verification is required for additions and alterations of existing buildings.
- E. Hardware installation
 - 1. The manufacturer's representative for the locking devices and closing devices must inspect and approve, in writing, the installation of their products. Hardware installed incorrectly must be reported to the architect prior to the architect's final punch list.
 - 2. 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.
 - 3. Installation shall conform to local governing agency security ordinance.

3.02 KEYING REQUIREMENTS

- A. Provide 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 on 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 by the Best factory representative as part of the hardware package to the General or Prime Contractor for delivery to the Owner a minimum of two (2) weeks prior to occupancy.
- B. All cylinders shall be Best 7-pin, interchangeable core.
- C. Furnish two (2) key blanks per core provided in the proper keyway configuration as directed by the University Locksmith
- D. The Owner, or the Owner's agent, will install permanent cores and return the construction cores to the Best Access Systems Factory Representative. All Construction cores and control keys remain the property of Best Access Systems.

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3.03 HARDWARE LOCATION

- A. Hinges:
 - 1. Bottom Hinge: 10 inches from door bottom to bottom of hinge.
 - 2. Top Hinge: 5 inches from door top to top of hinge.
 - 3. Center Hinge: Center between top and bottom hinge.
 - 4. Extra Hinge: 6 inches from bottom of top hinge to top of extra hinge.
- B. Lock: 38 inches from finished floor to center of lever or knob.
- C. Push Bar: 44 inches from bottom of door to center of bar.
- D. Push Plate: 44 inches from bottom of door to center of plate.
- E. Pull Plate: 42 inches from bottom of door to center of pull.
- F. Exit Device: 39-13/16 inches from finished floor to center of pad.
- G. Deadlock Strike: 44 inches from floor, centered.

3.04 ADJUSTING

- A. Adjust and check each operating item of hardware and each door to ensure proper operation or function of every unit. Replace units which cannot be adjusted to operate freely and smoothly.
- B. Inspection: Hardware supplier shall inspect all hardware furnished within 10 days of contractor's request and include with his guarantee a statement that this has been accomplished. Inspector or Contractor shall sign off the hardware as being complete and correctly installed and adjusted. Further corrections of defective material shall be the responsibility of his representative.

3.05 ADJUSTMENTS AND CLEANING

- A. At final completion, and when HVAC is operational and balanced, installer shall make final adjustment to and verify proper operation of all door closers and other hardware. Lubricate moving parts with type lubrication recommended by the manufacturer.
- B. All hardware shall be left clean and in good condition. Hardware found to be disfigured, defective or inoperative shall be repaired or replaced.

END OF SECTION 08 71 00