Project:

Toilet Renovations R.C. Hatch High School
Perry County Board of Education
P O Box 900
Marion, Alabama 36756

McKee Project No. 19-116
Alabama Building Commission No. 2019270

The following changes and/or substitutions to the plans and specifications are hereby made a part of same and are incorporated in full force as part of the contract.

Bidders shall acknowledge receipt of this Addendum in writing on his Proposal Form.

A3.1 GENERAL MODIFICATIONS:
   A. None

A3.2 SPECIFICATION MODIFICATIONS:
   A. Refer to Section 08700, Finish Hardware, herein.

A3.3 DRAWING MODIFICATIONS:
   A. None

END OF ADDENDUM THREE
SECTION 08700 – FINISH HARDWARE

PART 1 – GENERAL

RELATED DOCUMENTS

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

SUMMARY

This Section includes items known commercially as finish or door hardware that are required for swing, sliding, and folding doors, except special types of unique hardware specified in the same sections as the doors and door frames on which they are installed.

This Section includes the following:

1. Hinges.
2. Lock and latch sets.
3. Push/pull units.
5. Overhead holders.
6. Door trim units.
7. Protection plates.

Related Sections: The following Sections contain requirements that relate to this Section:

1. Division 8 Section "Standard Steel Doors and Frames" for silencers integral with hollow metal frames.
2. Division 8 Section "Flush Wood Doors" for factory pre-fitting and factory pre-machining of doors for door hardware.
3. Division 8 Section "Aluminum Entrances and Storefronts" for aluminum entrance door hardware, except cylinders.

QUALITY ASSURANCE

Door hardware supplier’s responsibilities shall be as follows:

1. Submittals: Submit through Contractor required product data, final hardware schedule; separate keying schedule, and samples as specified in this Section, unless otherwise indicated.
2. Hardware Review Meeting: Hardware Supplier shall attend a scheduled “Hardware Review Meeting” with the Contractor, Owner and Architect representative. All Hardware products, hardware installation locations, finishes, color selections, ratings and keying is to be reviewed and discussed. The Hardware Supplier understands the Hardware Submittal is not deemed “Fully Approved” until the Owner has completed their review and given “Approval”.
3. Construction Schedule: Inform Contractor promptly of estimated times and dates that will be required to process submittals, to furnish templates, to deliver hardware, and to
perform other work associated with furnishing door hardware for purposes of including
this data in construction schedule. Comply with this schedule.

4. **Coordination and Templates:** Assist Contractor as required to coordinate hardware with
other work in respect to both fabrication and installation. Furnish Contractor with
templates and deliver hardware to proper locations.

5. **Product Handling:** Package, identify, deliver, and inventory door hardware specified in
this Section.

6. **Discrepancies:** Based on requirements indicated in Contract Documents in effect at time
of door hardware selection, furnish types, finishes, and quantities of door hardware,
including fasteners, and Owner’s maintenance tools required to comply with specified
requirements and as needed to install and maintain hardware. Furnish or replace any
items of door hardware resulting from shortages and incorrect items at no cost to the
Owner or Contractor. Obtain signed receipts from Contractor for all delivered materials.

Contractor's responsibilities shall be as follows:

1. **Submittals:** Coordinate and process submittals for door hardware in same manner as
submittals for other work.

2. **Hardware Review Meeting:** Contractor is to schedule and attend a "Hardware Review
Meeting" with the Owner, Hardware Supplier and Architect Representative. All Hardware
products, hardware installation locations, finishes, color selections, ratings and keying is
to be reviewed and discussed. The Contractor understands the Hardware Submittal is
not deemed "Fully Approved" until the Owner has completed their review and given
"Approval".

3. **Construction Schedule:** Cooperate with door hardware supplier in establishing
scheduled dates for submittals and delivery of templates and door hardware.
Incorporate in construction schedule the times and dates related to furnishing hardware
by door hardware supplier.

4. **Coordination:** Coordinate door hardware with other Work. Furnish hardware supplier or
manufacturer with shop drawings of other work where required or requested. Verify
completeness and suitability of hardware with supplier.

5. **Product Handling:** Provide secure lock-up for hardware delivered to the site. Inventory
hardware jointly with representative of hardware supplier and issue signed receipts for
all delivered materials.

6. **Installation Information:** The general types and approximate quantities of hardware
required for this Project are indicated at the end of this Section in order to establish
Contractor’s costs for installation and other work not included in allowance.

7. **No adjustments in Contract sum will be made for costs other than those covered by the
allowances for subsequent increases or decreases in quantity of one or more hardware
types that do not exceed 5 percent.

**SUBMITTALS**

**General:** Submit the following in accordance with Conditions of Contract and Division 1
Specification sections.

Product data including manufacturers' 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.
Final hardware schedule coordinated with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.

1. Upon return of the reviewed finish hardware schedule, arrange for a meeting with the Owner and representatives of Architect. A keying schedule will be established and submitted to the Architect and Owner. After review, the keying schedule will be returned to representatives of Finish Hardware Supplier so that permanent cylinders and keys can be prepared on a timely basis.

QUALITY ASSURANCE

Substitutions: All substitution requests must be submitted before bidding and within the procedures and time frame as outlined in Division 1, General Requirements. Approval of products is at the discretion of the architect and his hardware consultant.

Single Source Responsibility: Obtain each type of hardware (latch and lock sets, hinges, closers, etc.) from a single manufacturer.

Supplier Qualifications: A recognized architectural door hardware supplier, with warehousing facilities in the Project's vicinity, that has a record of successful in-service performance for a minimum of 10 years, for supplying door hardware similar in quantity, type, and quality to that indicated for this Project and that employs an experienced “Certified architectural hardware consultant (AHC)” as recognized by the Door and Hardware Institute (DHI). All submittals shall be signed by an AHC who is available to Owner, Architect, and Contractor, at reasonable times during the course of the Work, for consultation.

Fire-Rated Openings: Provide door hardware for fire-rated openings that complies with NFPA Standard No. 80 and requirements of authorities having jurisdiction. Provide only items of door hardware that are listed and are identical to products tested by UL, Warnock Hersey, FM, or other testing and inspecting organization acceptable to authorities having jurisdiction for use on types and sizes of doors indicated in compliance with requirements of fire-rated door and door frame labels.

PRODUCT HANDLING

Tag each item or package separately with identification related to final hardware schedule, and include basic installation instructions with each item or package.

Packaging of door hardware is responsibility of supplier. As material is received by hardware supplier from various manufacturers, sort and repackage in containers clearly marked with appropriate hardware set number to match set numbers of approved hardware schedule. Two or more identical sets may be packed in same container.

Inventory door hardware jointly with representatives of hardware supplier and hardware installer until each is satisfied that count is correct.

Deliver individually packaged door hardware items promptly to place of installation (shop or Project site).

Provide secure lock-up for door hardware delivered to the Project, but not yet installed. Control handling and installation of hardware items that are not immediately replaceable so that...
completion of the Work will not be delayed by hardware losses both before and after installation.

MAINTENANCE

Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

PART 2 – PRODUCTS

HINGES:

A. Manufacturers:

1. Ives
2. McKinney
3. Bommer

B. Material:

1. Provide only template produced units
2. Provide Phillips flat-head or machine screws for installation of units, except furnish Phillips flat-head wood screws for installation of units in to wood. Finish screw heads to match surface of hinges or pivots.
3. Hinge pins, except as noted, are to be provided as follows:
   a. Steel Hinges: Steel pins
   b. Non-ferrous Hinges: Stainless steel pins
   c. Exterior Doors: Use Non-Removable Pins
   d. Interior Doors: Non-rising pins
   e. Electric Hinges: Non-removable pins
4. Tips shall be flat button and matching plug, finished to match leaves.
5. Provide number of hinges indicated but not less than three (3) hinges for door leaf of 90° or less in height and one additional hinge for each 30” of additional height.
6. Provide ball bearing hinges of the type and weight suggested by the hinge manufacturer for each type of door application.

LOCKSETS AND LATCHSETS

A. Manufacturers:

1. Falcon MA Series, DN Design
2. Schlage L Series, 06N Design
3. Sargent 8200 Series, LW1A Design

B. Material:

1. Locksets and latch-sets of all manufacturers must conform to the requirements of Sub paragraphs 2 and be approved by the Architect.
2. Cylindrical Lock Type
a. Locksets and latch sets must conform to ANSI A156.2 Series 4000, Operational Grade 1, and be UL Listed.

CLOSERS

A. Manufacturers:

1. Falcon SC71A Series
2. LCN 4050 series
3. Norton 7500

B. Material:

1. Size of units: Except as otherwise specifically indicated, comply with the manufacturer’s recommendations for size of door control unit, depending upon size of door, exposure to weather and anticipated frequency of use.
   a. Where parallel arms are indicated for closers, provide closer unit one size larger than recommended for use with standard arms.
   b. Where manual closers are indicated for doors required to be accessible to the physically handicapped, provide adjustable units, ANSI opening force and delayed action closing.
2. Closers are to be fully hydraulic, rack and pinion action with high strength
3. cast iron cylinders and one piece forged steel pistons. Closer Piston diameter at exterior doors shall be minimum 1½”. Hydraulic regulation to be controlled by tamper-proof, non-critical screw values, adjustable with a hex by tamper-proof, non-critical screw valves, adjustable with a hex wrench. Separate adjustments for back check, general speed, and latch speed. Where detailed in the door hardware sets, provide delayed action feature to delay closing up to one minute for maximum opening to approximately 75. Back check shall be properly located for protection of the door, frame and applied hardware.
4. All door closers shall comply with ANSI A156.4 Grade 1 and meet the standards of ANSI A117.1 for barrier-free accessibility.
5. Provide closers with full metal covers.

OVERHEAD STOPS AND HOLDERS

A. Manufacturers:

1. Glynn Johnson
2. Sargent
3. Rixson

B. Material:

1. Conform to ANSI A156.8 Grade 1.

PUSH/PULLS & PROTECTION PLATES

A. Manufacturers:

1. Ives
2. Trimco
3. Burns

B. Material:

1. Provide manufacturers standard exposed fasteners for installation, through bolted for matched pairs, but not of single units.
2. Provide 16 gauge minimum thickness for plates.
3. Where specified in the schedule, push/pulls shall have an antimicrobial coating.

THRESHOLDS, WEATHERSTRIPPING & GASKETING

A. Manufacturers:

1. Zero
2. National Guard
3. Pemko

B. Material:

1. Provide continuous weather-stripping at each edge of every exterior door leaf, except as otherwise indicated.
2. Provide type, size and profile shown as scheduled.
3. Provide non-corrosive fasteners as recommended by manufacturer for application indicated. Do not specify adhesive backed weather-strip or gasket material.
4. Where replaceable seal strips are scheduled, provide only those units where resilient or flexible seal strip is easily replaceable from stocks maintained by manufacturer.
5. Proved standard metal threshold unit of type, size and profile shown as scheduled.

FINISHES

Hardware finishes shall conform to ANSI and shall be as listed below for aluminum, FRP, hollow metal and wood doors:

<table>
<thead>
<tr>
<th>Finish Type</th>
<th>Finish Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butt Hinges</td>
<td>652 Satin Chrome Plated Steel</td>
</tr>
<tr>
<td>Continuous Geared Aluminum Hinges</td>
<td>628 Clear Anodized Aluminum, except at aluminum storefront doors. At Aluminum storefront doors, provide anodized or Kynar finish as required to match specified door finish.</td>
</tr>
<tr>
<td>Cont. Pin &amp; Barrel Hinges</td>
<td>630 Satin Stainless Steel</td>
</tr>
<tr>
<td>Flush Bolts</td>
<td>626 Satin Chrome Plated</td>
</tr>
<tr>
<td>Locksets</td>
<td>626AM Satin Chrome Plated, Anti-Microbial</td>
</tr>
<tr>
<td>Exit Devices</td>
<td>626AM Satin Chrome Plated, Anti-Microbial</td>
</tr>
<tr>
<td>Door Closers</td>
<td>689 Powder Coat Aluminum</td>
</tr>
<tr>
<td>Push Plates</td>
<td>630AM Satin Stainless Steel, Anti-Microbial</td>
</tr>
<tr>
<td>Pull Plates</td>
<td>630AM Satin Stainless Steel, Anti-Microbial</td>
</tr>
<tr>
<td>Protective Plates</td>
<td>630 Satin Stainless Steel</td>
</tr>
<tr>
<td>Door Stops</td>
<td>626 Satin Chrome Plated</td>
</tr>
<tr>
<td>Overhead Holders</td>
<td>630 Satin Stainless Steel</td>
</tr>
</tbody>
</table>
PART 3 – EXECUTION

INSTALLATION

Install each hardware item in compliance with manufacturer’s instructions and recommendations. Where cutting and fitting is required to install hardware onto or into surfaces that are later to be painted of finished in another way, install each item completely and then remove and store in a secure place during the finish application. After completion of the finishes, reinstall each item.

1. Do not install surface mounted items until finishes have been completed on the substrate.

Conform to ANSI A117.1 for positioning requirements for the handicapped.

PROTECTION AND CLEANING

After installation, clean metal surfaces on both interior and exterior of all mortar, paint and other contaminants. After cleaning, protect work against damage.

FINAL ADJUSTMENT

Whenever hardware is installed more than one month prior to occupancy or acceptance, return during the week prior to acceptance or occupancy and make a final inspection and adjustment of all hardware items in such space or area.

SCHEDULE

HWSET: 1

DOOR NUMBER:
101   102   102A   201   202   202A

EACH TO HAVE:
3 HINGE      IVE
1 PASSAGE SET FAL
1 OH STOP    GLY
1 SURFACE CLOser FAL
1 KICK PLATE IVE
1 MOP PLATE IVE
1 GASKETING ZER

END OF SECTION