DIVISION 8 OPENINGS

08 40 00 ENTRANCES, STOREFRONTS, AND CURTAIN WALLS

A. All exterior entrance doorways shall be provided with electrical conduit for security access control.

B. Primary accessible entrance doors shall be swinging doors with radio controlled push button actuators. The doors shall have the following features:
   1. A door hold-open device.
   2. The door must be able to be unlocked and locked with a cylinder key.
   3. Electrical power to the doors shall be connected to the emergency power system. Doors shall remain operable during power outages.
   4. At least one main entry shall have a door operator LCN 4610 or 4620.
   5. Provide “Gyro-Tech” or similar power door operators.

C. Center Mullions: Exterior double doors shall have cylinder key removable center mullions, only where needed. All other double doors shall have permanent mullions.

08 51 00 METAL WINDOWS

A. Maintenance: All windows to be accessible for cleaning and glazing replacement in a simple manner.

08 70 00 HARDWARE

A. General: The University has a master key system on campus. All locks shall be Grade One. Any lockset, passage set, or exit device shall meet ADA specifications. Any lever is to have a full return at the end of the handle. The style shall match Schlage Sparta or Rhoads.

B. Locks: All locks shall be provided with construction cylinders that are Schlage Everest cylinders, zero bitted.
   1. For any project, there shall be six percent (6%) extra locks left on the job for maintenance. These locks shall be as follows with one minimum of each type:
a. Two percent (2%) - Classroom function type (key to lock and unlock).

b. Four percent (4%) - Entry function.

2. Remodels require hardware to match existing finish.

C. Extra Locks: Extra locks and keys shall be delivered to the FD&C office upon completion of the project. The Contractor shall verify quantities before delivery.

D. Additions: Where additions are built to existing buildings, the locks shall be of a matching type to be consistent with building master key.

E. Exit Devices: Exit devices must have dead latching feature. Install with sex-bolts or through bolts as required. These devices shall meet ADA specifications. Von Duprin 99 series or equivalent shall be used. In addition provide overhead door restrictors included. Fire exit devices shall be used on fire-rated doors as required.

F. Keys: Door keys and cylinders shall be part of the contract.

1. Where exit devices are installed, the Contractor shall supply at least one (1) dogging or lockdown key with each exit device that is not fire rated.

2. All other keys for cabinets, lockers, panels, dogging, electrical operator, water valve and special purpose keys shall be identified and tagged. These shall be delivered to the Construction Coordinator at the time of final acceptance.

G. Exterior Door Hinges: Exterior doors shall have full length “Piano Type” hinges.

08 71 00 DOOR HARDWARE

08 71 13 HANDICAP DOOR OPERATORS

A. General: Installation to be done with a high level of craftsmanship, by installers specifically trained and experienced in handicap doors and their proper installation, and in accordance with all applicable electrical and ADA code requirements. All trims, covers, extension plates for appropriate door positioning, ADA signage, other hardware necessary to complete the installation, as well as any final adjustments needed to obtain desired door operation to be supplied and completed in a timely fashion by the winner of this bid.
B. **Warranty:** Two years from time operation is turned over to the University; to include all parts, labor, travel time, etc. necessary to return operators to original condition and functionality.

C. **Door Operator Specifics:** Door operators need to meet at least the minimum specifications enumerated below:

1. Drive motor to be minimum 3/4 horsepower solid state.

2. Drive train to utilize all hardened steel gears in the drive train assembly. NO PLASTIC GEARS WILL BE ACCEPTED.

3. Push-N-Go operation capable, as well as available option to power door closed if needed.

4. LCN Heavy Duty closing spring assembly (or equivalent), with at least the following features:
   
   a. Adjustable spring strength to compensate for closing in high wind or building stack pressure situations.
   
   b. Door easy to open manually.
   
   c. Hydraulic back check to protect doors and hardware when slammed open by wind, etc. This feature to be operable whether door opened manually or automatically.

   d. Ability to adjust door speed and back check without removing operator cover.

5. Adjustable magnetic switches for back check and latch initiation. MECHANICAL SWITCHES NOT ACCEPTED.

6. Individually replaceable parts (motors, drive trains, control boards, etc.), designed so that they can be easily replaced on site.

7. Both bottom Load and Side Load units to use same replacement parts.

8. Battery operated push plates for wireless door initiation. Must be capable of sequential door initiation upon both entering and leaving the building.

**Revision Log:**

01/19/12: Addition of section 08 71 13 Handicap Door Operators