PART I - GENERAL

1.01 DESCRIPTION

A. Scope: Work under this Section shall include all materials and installation necessary to provide Aluminum Entrances and Storefronts as shown and detailed on the Drawings and specified herein.

1.02 QUALITY ASSURANCE

A. References:


B. Design Requirements: Aluminum frame members must span vertically to withstand 25 psf wind load, minimum, per CBC; provide internal reinforcing as required; maximum deflection of 1/175 of span.

1.03 SUBMITTALS

A. Shop Drawings: Submit design calculations, manufacture and installation details, including fastenings.

B. Samples: Submit manufacturer's standard colors.

1.04 SITE CONDITIONS

A. Environmental Requirements: Do not install sealants when temperature is less than 40°F.

B. Protection: Protect prefinished components with wrapping or stripable coating; adhesive papers and sprayed coatings not acceptable.

PART II - PRODUCTS

2.01 MATERIALS

A. Entrance and Storefront:

1. General: Series 2400 Window Wall as manufactured by Blomberg Window Systems, the Kawneer Co., Inc., or equal.

2. For automatic doors to connect to card access system: during day use doors shall open upon approaching and close after passing through. For night use doors shall unlock and open when card access control system reads an authorized card. Doors shall close and lock after each use. Coordinate with access control contractor. Provide automatic entrance door "Besam, Stanley, or equal" with Access security package "B". Door contractor shall provide 12 VDC relays to allow access control system to automatically control the following door functions.
3. Off Mode Locks Doors:
   a. Exit mode allows exit at any time and entrance with access control card.
   b. Auto Mode unlocks doors and connects normal activating devices.

B. Doors:
   1. General: Manufacturer's standard narrow style, with mohair pile weatherstripping where required.
   2. Hardware: Division 8, Section 08719 – Finish Hardware

C. Operating Windows: Manufacturer's standard; projected type.

D. Finish: Thermosetting acrylic or anodized; color as selected by University's Representative.

E. Glass: As specified in Division 8, Section 08810 – Glass and Glazing, and as shown.

F. Infill Panels: As specified in Division 8 – PORCELAIN ENAMEL PANELS.

G. Fasteners: As recommended by manufacturer to meet wind pressures shown.

H. Protective Coatings:
   1. General: Bituminous, FS TT-C-494, Type II.
   2. Gasketing: Chromate type.
   3. Sealant: As specified in Division 7, Section 07920 – Caulking and Sealants.

PART III - EXECUTION

3.01 INSTALLATION

A. General: Install in conformance with referenced standards, manufacturer's written directions, as shown, and as specified.

B. Storefront:
   1. General: Install level, plumb, straight and aligned with adjacent surfaces, with hairline watertight joints; free of dents, buckles, twists, or other imperfections, as shown. Install flashings where shown.
   2. Anchorage:
      a. General: Anchor to adjacent structure; permit sufficient adjustment to accommodate construction tolerances and other irregularities. Use No. 12 sheet metal screws, or wood screws at 18” on center with a minimum of 1” penetration into structure.
b. Tolerances: Maximum variation from plumb of 0.06\" every 3'-0\" non-cumulative or \(\frac{1}{16}\\)" per 10'-0\", whichever is less. Maximum misalignment of two (2) adjoining members abutting in plane of \(\frac{1}{32}\)\".

3. Operating Windows: Install where shown.

4. Thermal Isolation: Provide where components penetrate or disrupt building insulation. Coordinate attachment and seal of perimeter air and vapor barrier materials.

C. Glazing:

1. General: As specified under Division 8, Section 08810 – Glass and Glazing.

2. Glazing Stops: Anchor glass holding assemblies with frame clips and machine screws.

D. Doors:

1. General: Hang doors level, plumb, straight in vertical plane, with proper fit and alignment and moving parts operating freely without bind.

2. Weatherstripping: Seal doors, meeting stiles of pairs of doors, door tubing, and stops on frames and astragals.

3. Thresholds: Set in bed of sealant and secure.

4. Hardware: Per Division 8, Section 08710 – Finish Hardware.

E. Dissimilar Materials: Isolate from other metals, plaster or concrete.

F. Sealant: Install per Division 7, Section 07920 – Caulking and Sealants.

3.02 ADJUSTMENT

A. General: Prior to acceptance, adjust moveable parts to assure smooth operation.

3.03 CLEANING

A. Glass: Upon completion, remove labels and thoroughly clean glass surfaces.

B. Aluminum: Remove protective covering per manufacturer's instructions. Clean aluminum surfaces of stains, marks, or other defects, using soap and clean water.

END OF SECTION 08410