SECTION 04 2113

BRICK VENEER MASONRY

PART 1 - GENERAL

1.1 SUMMARY

A. Includes But Not Limited To:
   1. Furnish and install masonry units as veneer on framing as described in Contract Documents.

B. Products Installed But Not Supplied Under This Section:
   1. Section 10 1424: Engraved Stone Panel Signage.
   2. Section 05 1223: Metal Lintels.

1.2 REFERENCES

A. American Society For Testing And Materials:
   1. ASTM C 216-04, 'Standard Specification for Facing Brick (Solid Masonry Made from Clay or Shale).'</n
1.3 SUBMITTALS

A. Product Data:
   1. Manufacturer's literature or cut sheet.
   2. Color and type selection.

1.4 QUALITY ASSURANCE

A. Mock-Ups:
   1. Panel 4 feet 1/2 mm long by 3 feet 900 mm high of proposed color range, texture, bond, mortar, and workmanship. Include mock-up framing and sheathing to show wall construction to be used on Project, including anchor and tie systems, seismic reinforcing, etc.
   2. Do not start work of this Section until Architect has accepted sample panel.
   3. Use panel as standard of comparison for masonry work built of same material.

B. Pre-Installation Conference: Schedule pre-installation conference during construction of mock-up panel.

1.5 DELIVERY, HANDLING, AND STORAGE

A. Check, carefully unload, and deliver material to site in such a manner as to avoid soiling, damaging, or chipping.

B. Store material on planks clear of ground and protect from damage, dirt, or disfigurement.
PART 2 - PRODUCTS

2.1 MATERIALS

A. Mortar: Type 'N' as specified in Section 04 0513.

2.2 MANUFACTURED UNITS

A. Brick:
   1. 3-5/8 inches 90 mm wide by 2-1/4 inches 56 mm high by 7-5/8 inches 190 mm long modular brick.
   2. 3 inches 75 mm wide by 3 inches 75 mm high by 9 inches 225 mm long queen brick.
   3. Wood molded / Tumbled.
   4. Meet requirements of ASTM C 216, Grade SW, Type FBX.
      a. Rating for efflorescence shall be 'Not Effloresced.'
      b. Exposed faces shall be finished and have less than 5 percent chippage and have crack-free appearance when viewed from 15 feet 4,500 mm away.
   5. Brick shall be cleanable using standard method specified below when using specified mortar.
   6. Brick for Project shall be fired in same run.
   7. Quality Standard:
      a. <Insert approved manufacturer, style, color>
      b. <Insert approved manufacturer, style, color>
      c. Equal as approved by Architect before bidding. See Section 01 6000.

2.3 ACCESSORIES

A. Cleaning Compounds:
   1. Use type of compound recommended by Brick Manufacturer based on minerals present in masonry units.
   2. Type Two Acceptable Products:
      c. Equal as approved by Architect before use. See Section 01 6000.

2.4 SOURCE QUALITY CONTROL

A. Fabrication Tolerances: Brick shall be true to size and shape. No warped brick permitted.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Site Tolerances:
   1. Masonry shall be true to vertical and horizontal planes within 1/8 inch in 10 feet 3 mm in 3 meters, non-cumulative. Recess masonry where indicated.
   2. Maintain 3/8 inch 9 mm mortar joints throughout.

B. General:
   1. Install embedded flashing behind lower edge of air infiltration barrier.
   2. Make cuts proper size to accommodate work of other trades. Cut openings for electrical devices using cover plates no larger than can be covered by standard size plate. Replace unit masonry in
which larger than necessary openings are cut. Do not patch openings with mortar or other material.
3. Step back unfinished work for joining with new work. Use toothing only with Architect's approval.

C. Masonry Veneer Ties:
1. Free of material that may destroy bond.
2. Install as detailed by screwing through sheathing into framing. Begin approximately 8 inches 200 mm from base of masonry and with maximum spacing of 16 inches 400 mm vertically and horizontally thereafter. Install final row of ties within 8 inches 200 mm of top course of brick.
3. Seismic Reinforcing:
   a. Install in same course as masonry ties on centerline of brick width.
   b. Attach reinforcing to ties in accordance with Manufacturer's instructions.
   c. Lap ends of horizontal joint reinforcing 8 inches 200 mm at joints.

D. Laying:
1. Layout:
   a. Running bond except where noted otherwise. Select brick so there is uniform distribution of hues.
   b. Use solid brick where brick coursing would otherwise show cores.
2. Joints:
   a. Do not tool until mortar has taken initial set.
   b. Tool concave. When tooling joints, squeeze mortar back into joint.
   c. Point holes in joints. Fill and tool properly.
3. Use mortar within two hours of initial mixing. Discard mortar that has begun to set.
4. Wet each brick to saturation. Lay brick when surface is dry. Brick absorption when laid should not exceed 0.025 oz/sq inch maximum.
5. Set masonry units within one minute of spreading mortar. Shove brick into place in full mortar bed, do not lay.
7. Strike back-side joints on brick flush. Do not allow mortar build-up in cavity between masonry veneer and stud wall sheathing.

E. Weepholes: Install at 33 inches 875 mm on center maximum at bottom masonry course.

F. Mortar Guard: Place mortar guard continuously between brick or CMU and sheathing at bottom course of masonry.

3.2 CLEANING

A. After mortar has hardened, wet masonry and clean with specified cleaning compound. Use stiff fibered brush for application. Rinse masonry surfaces with water immediately after cleaning. Leave masonry clean, free of mortar daubs, and with tight mortar joints.

B. Remove and replace defective material at Architect's direction and at no additional cost to Owner.

C. Clean up masonry debris and remove from site.

3.3 PROTECTION

A. Protect masonry with cover during rainy weather.

B. Maintain temperature around masonry at 40 deg F 4 deg C minimum for 48 hrs.

END OF SECTION