

# 1 General

## **.1 Codes & Standards**

- .a Masonry Standard: ACI 530.1/ASCE 6 “Specifications for masonry Structures”.
- .b Control joints, expansion joints and flashing shall be located and installed as per the recommendations of the Brick Institute of America and National Concrete Masonry Association.

## **.2 Mock-Ups**

- .a Minimum 8 ft. long by 8 ft. high, full thickness, including face and back-up wythes.  
Would prefer to see a mock up showing typical window, jamb, head, waterproofing, detail with brick veneer  
This would likely be min. 8' x 8'.

# 2 Products

## **.1 Face Brick**

- .a ASTM C 216, Grade SW, Type FBS.
- .b Compressive Strength not less than 13,000 psi.
- .c Size, Color, Texture: Designer preference, subject to Owner approval.
- .d Glazed Face Brick: Subject to Owner approval.
- .e Designer to select brick materials complimentary to local climate thus reducing efflorescence.

## **.2 Concrete Masonry**

- .a Hollow Load-Bearing Units: ASTM C 90-90.
- .b Unit Compressive Strength: 1,900 psi.
- .c Split-Faced Masonry: Subject to Owner approval.
- .d Ground-Face Concrete Masonry: Subject to Owner approval.

## **.3 Reinforcing**

- .a Ties and Anchors: Galvanized carbon steel, ASTM A82, with ASTM 153 (hot-dip), Class B-2 coating; minimum 9-gauge wire.
- .b Adjustable Anchors: Two-piece assemblies allowing vertical and horizontal differential movement between wall and structural framework.
- .c Joint Reinforcing: Minimum 9-gauge wire, ladder type; except that truss type shall be used in rigid (filled) walls.
- .d Multi-Wythe Construction: Adjustable 2-piece type.

## **.4 Mortar**

- .a Portland Cement-Lime Mix: Comply with ASTM C 150, Type I or Type II.
- .b Hydrated Lime: ASTM C 207. Aggregate: ASTM C 144; natural sand.
- .c Mortar Pigments: Natural and synthetic iron oxides and chromium oxides.
- .d Water: Potable.

- .e Pigmented Mortar: Owner preference is standard grey. Designer preference, subject to Owner approval. Must be premixed and not mixed at site.
- .f Joints: All joints must be tooled not struck. Shape to be determined by designer.

#### **.5 Flashing**

- .a Through-Wall Flashing: Laminated, consisting of 5 oz./sq. ft. sheet copper bonded with asphalt between two layers of glass fiber cloth.
- .b Provide stainless steel drip edge at all slab thru-wall flashing.
- .c Lap continuous flashing at least 6", and seal laps.

#### **.6 Cavity Wall Insulation (per designer recommendation)**

- .a Extruded Polystyrene: ASTM C 578, Type IV.
- .b Molded Polystyrene: ASTM C 578, Type I.
- .c Polyisocyanurate: ASTM C 1289, Type I (aluminum foil faced), Class 2 (glass fiber reinforced).

#### **.7 Masonry Cell Insulation**

- .a Loose Granular Fill: Perlite, complying with ASTM C 549, Type II (surface treated for water repellency and limited moisture absorption). Only to be used as approved by owner.

#### **.8 Expansion & Control Joints**

- .a As specified by design team.
- .b Expansion & Control Joints to be shown on contract drawings.

#### **.9 Accessories**

- .a Weep Holes: Owner preference is open head joints; plastic tubes shall not be allowed. Waffle style preferred.
- .b Cavity Drainage Material: ¾-inch free-draining, polyethylene mesh.
- .c Damp-proofing: ASTM D 1227n Type III, Class 1 cold-applied, emulsified asphalt; spray applied.

#### **.10 Masonry Cleaners**

- .a Cleaners: Job-mixed detergent solution – specified by design team.
- .b Acid cleaners shall not be utilized.

#### **.11 Masonry Sealants**

- .a As specified by Architect and/or Engineer of record.
- .b Provide urethane sealant for all masonry expansion and control joints.
- .c Where conventional concrete masonry units are exposed to view, clean masonry and coat with block filler with a final two coat finish of paint. Recoat any areas with pinholes or incomplete filler.
- .d Anti-graffiti coatings: May be utilized as approved by owner.