

**Part 1      General**

**1.1      RELATED REQUIREMENTS**

- .1      Section 03 10 00 - Concrete Forming and Accessories.
- .2      Section 03 20 00 - Concrete Reinforcing.
- .3      Section 03 30 00 - Cast-in-place Concrete.
- .4      Section 04 05 00 - Common Work Results for Masonry
- .5      Section 07 61 00 - Sheet Metal Roofing.
- .6      Section 07 62 00 - Sheet Metal Flashing and Trim.

**1.2      REFERENCES**

- .1      ASTM International
  - .1      ASTM C315 - Standard Specification for Clay Flue Liners.
  - .2      ASTM C301 - Standard Test Methods for Vitrified Clay Pipe.
  - .3      ASTM C67 - Standard Methods of Sampling and Testing Brick and Structural Clay Tile.
  - .4      ASTM C1283 - Standard Practice for Installing Clay Flue Lining.

**1.3      ACTION AND INFORMATIONAL SUBMITTALS**

- .1      Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2      Product Data:
  - .1      Submit manufacturer's instructions, printed product literature and data sheets for clay masonry and include product characteristics, performance criteria, physical size, finish and limitations.

**1.4      QUALITY ASSURANCE**

- .1      Qualification
  - .1      Refer to Section 04 05 00 - Common Work Results for Masonry.
  - .2      Make sure that work executed in this Section is performed by qualified masons having experience in handling and installing of clay chimney pots.
  - .3      Masons employed on this project throughout course of project must meet above requirements. Where, during course of project, masons leave work force, replacement masons must also meet requirements.
- .2      Mock-ups:
  - .1      Construct mock-ups in accordance with Section 01 45 00 - Quality Control and requirements of Section 04 05 00 - Common Work Results for Masonry.
    - .1      Install one chimney pot showing the attachment system to the concrete coping and to the smoke shafts, and the quality of work.

## **1.5 DELIVERY, STORAGE AND HANDLING**

- .1 Deliver, store and handle materials in accordance with Section 01 61 00 - Common Product Requirements and with manufacturer's written instructions.
- .2 Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer's name and address.
  - .1 Offload masonry units packages using equipment that will not damage the surfaces.
  - .2 Do not use brick tongs to move or handle masonry.
  - .3 Upon delivery on site, inspect materials to make sure that they fulfill the requirements and that they have no defect and are not damaged. In case of any anomaly, document the damages using photographs, immediately notify in writing the seller and inform the Departmental Representative of the situation.
- .3 Storage and Handling Requirements:
  - .1 Store materials off ground, in dry location, and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
  - .2 Do not double stack cubes of masonry units.
  - .3 Cover masonry units with non-staining waterproof membrane covering.
  - .4 Allow air circulation around units.
  - .5 Installation of wet or stained masonry units is prohibited.
  - .6 Keep masonry units in individual cardboard packaging provided by manufacturer until units are ready to be installed.
  - .7 Store and protect clay masonry elements from nicks, scratches, and blemishes.
  - .8 Replace defective or damaged materials with new.
- .4 Packaging Waste Management: remove in accordance with Section 1 74 21 - Construction/Demolition Waste Management and Disposal.

## **1.6 SITE CONDITIONS**

- .1 Ambient Conditions: assemble and erect components only when temperature is above 7 degrees C.
- .2 Cold and Hot Weather: Perform work in accordance with ACI 530.1 current edition.
- .3 At the end of each workday, or during rainy weather, cover clay masonry work exposed to weather with waterproof coverage and securely anchor as necessary

## **Part 2 Products**

### **2.1 MATERIALS**

- .1 Chimney pots and rain guards from vitrified clay that is fired at suitable temperature.
  - .1 Acceptable products:

- .1 Model « Austen » (914 mm high), with octagonal rain guards (manufacturer to provide anchors allowing to attach the rain guards on top of the chimney pots). from Superior Clay Corporation;
- .2 Model « Octagon Pot » (750 mm high), with « Button Vent » type vented protection cap, from Hepworth Terracotta.
- .2 Colour of glazing: buff .
- .3 Finish faces that will be exposed when installed shall be free from chips, blisters or any other imperfections that could hamper its structural integrity or its appearance.

## **2.2 ACCESSORIES**

- .1 All anchors used for securing the chimney pots shall be made of stainless steel.

## **Part 3 Execution**

### **3.1 EXAMINATION**

- .1 Verification of Conditions: verify that conditions of substrate previously installed under other Sections or Contracts are acceptable for clay masonry installation in accordance with manufacturer's written instructions.
  - .1 Visually inspect substrate in presence of Departmental Representative.
  - .2 Inform Departmental Representative of unacceptable conditions immediately upon discovery.
  - .3 Proceed with installation only after unacceptable conditions have been remedied [and after receipt of written approval to proceed from Departmental Representative.

### **3.2 INSTALLATION**

- .1 Clay masonry elements:
  - .1 Pre-drill 4 holes around the octagonal body of the chimney pot (on opposite sides).
  - .2 Install chimney pots by sliding them on top of the sleeve attached at the top of each smoke shaft.
  - .3 Proceed carefully not to cause any damage, attach each chimney pot to its sleeve using stainless steel screws.
  - .4 Install rain guards or vented buttons on top of the chimney pots.

### **3.3 CLEANING**

- .1 Progress Cleaning: clean in accordance with Section 01 74 11 - Cleaning.
  - .1 Leave Work area clean at end of each day.
- .2 Clean glazed clay masonry as work progresses using soft, clean cloths, within few minutes after laying.

- .3 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11 - Cleaning.
- .4 Waste Management: separate waste materials in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.

**END OF SECTION**