SECTION 047200 – CAST STONE MASONRY

STRUCTURAL GUIDELINES

1.1 Introduction
   a. The requirements and guidelines outlined herein are intended to provide an outline of best practices to enhance the performance of the exterior building enclosure systems and to reduce future maintenance when possible.
   b. The Architects and Engineers for all construction projects are responsible for identifying and preparing the full documentation necessary for all permits and reviews by governmental authorizes having jurisdiction over the projects at University of Delaware.
   c. The information outlined herein are preferences or specific requirements of the University of Delaware under this Section.

1.2 Codes and Standards
   a. FM Global – All roofing projects shall be submitted to FM Global Plan Review concurrent with the design development phase submission. The design professional shall incorporate FM review comments within the project documents prior to bid
   c. Sheet Metal and Air Conditioning Contractors’ National Association (SMACNA)
   d. American Air Barrier Association (AABA)
   e. Sealant Waterproofing and Restoration Institute (SWRI)
   f. Occupational Safety and Health Administration (OSHA)
   g. American National Standards Institute/American Society of Safety Engineers (ANSI/ASSE) Z359.2-2007 – Fall Protection

1.3 Environmental Testing
   a. The University may perform environmental testing of existing materials to be impacted by the work for hazardous materials (i.e. lead, asbestos, mold, etc.) during the design phases, including but not limited to, the following:
      i. Roofing materials
      ii. Flashing materials
      iii. Paints
      iv. Sealants

1.4 Quality Assurance Guidelines
   a. Manufacturer’s Inspections
      i. The University prefers to have the manufacturer’s field technical representative perform interim inspections during the execution of the work.
   b. Pre-Installation Conferences
      i. Conduct Pre-Installation Conferences where works involve multiple trades before starting substantial work.
   c. Mock-ups and Samples
      i. On large projects the university requires full size exterior wall mock-ups to demonstrate expected performance and quality of embedded components and aesthetics of visible cladding and fenestration components.
      ii. Construct mock-ups and obtain samples for review before starting substantial work.
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PART 1 - GENERAL

1.1 SUMMARY

A. The Architects and Engineers for all construction projects are responsible for identifying and preparing the full documentation necessary for all permits and reviews by governmental authorities having jurisdiction over the projects at University of Delaware.

B. The information outlined herein are preferences or specific requirements of the University of Delaware under this Section.

1.2 PRE-INSTALLATION MEETINGS

A. The university requires Pre-installation Conferences for all Building Enclosure components

B. All related trades should be present at Pre-installation Conference

1.3 MOCK-UPS

A. The university requires full size exterior wall mock-ups to demonstrate expected performance and quality of embedded components and aesthetics of visible cladding and fenestration components.

B. Mock-ups for remedial work or additions to existing buildings should be constructed directly adjacent to in-place materials. In-place materials should be cleaned prior to erection of the mock-up. New materials should match cleaned in-place materials.

PART 2- PRODUCTS

2.1 TIES AND ANCHORS

A. All ties and anchors to be stainless steel.

B. The university prefers not to utilize anchors at the base of individual pieces of cast stone that would penetrate the through wall flashing. The University recommends the Architect consult with the project engineer and Cast Stone Institute producer member in the early stages of design to determine the appropriate anchoring strategy.

C. The university prefers not to utilize embedded dovetail slotted anchors or inserts within concrete substrate.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

A. The university prefers the use of sealant at all stone to stone joints and at stone to adjacent dissimilar materials. Once sealant is installed wet sealant should be dashed with sand to simulate appearance of mortar. This method will need to be reviewed during the mock-up process.

3.4 WEEPS/VENTS
A. The configuration of the cast stone units on a given project may preclude the installation of the appropriate number of weeps/vents at the vertical joints of the cast stone. Horizontal weep systems may be required in this type of condition.

END OF SECTION