

Division 4 – Masonry

04.1. Brick Selection

- a. During the Preliminary Design phase, in context with the surrounding buildings, the A/E shall select brick, mortar and joint tooling, to be approved by the University Architect. The University has final approval of all brick types, shapes, colors and mortar type and color.
- b. Refer to [CHAPTER TWO – CAMPUS DESIGN](#) for basis of brick used on campus.
- c. Brick and mortar selection for renovations and/or additions to buildings shall match the closest freshly cleaned adjacent existing wall unless otherwise approved by the University. Additions and/or renovations to existing buildings shall match the existing mortar and brick in size, color, texture and compressive strength unless otherwise approved by the University. The A/E is to clearly delineate an existing 4-foot square or greater wall area containing a minimum of 100 existing bricks to be matched and include that information in the bid documents. The wall area location selected by the A/E shall be approved by the University prior to bidding. Allowances for masonry materials to match existing are not permitted.

04.3. Miscellaneous Metals

- a. All steel lintels supporting exterior masonry shall be hot dipped galvanized. No field cutting is permitted.
- b. Hot dip galvanized factory primed lintel, the A/E shall confirm that the final paint is compatible with the factory primer.
- c. No exposed weld joints. If necessary, they must be ground smooth and hot galvanized.
- d. Miscellaneous steel lintels, shelf angles, attachments, etc. embedded or incorporated into masonry construction shall be hot-dipped galvanized or stainless steel. Exposed to view, e.g., window lintels, items are to be finished to match adjacent construction.

04.4. Mortar

- a. Masonry mortar shall not be mixed unless the outdoor air temperature is above 40 degrees F and rising without the specific approval of the A/E. Any cold-weather mortar mixing and applications shall comply with the most restrictive provisions of the current Masonry Standards Joint Committee (MSJC) code.
- b. All masonry shall have full bed and head joints.
- c. All joints shall be uniformly struck and the backsides shall not be parged. Exposed joints shall be struck in timely manner to produce an even coloration throughout the entire wall.
- d. Projecting courses shall not be set until mortar, in the joints below, is set enough to prevent extrusion. All projecting courses shall be durably supported until mortar has cured.
- e. Tooled joints shall be standard concave joints unless otherwise required to match adjacent existing joints.
- f. Mortar Pigments: Natural and synthetic iron oxides and chromium oxides, compounded for use in mortar mixes. Use only pigments with a record of satisfactory performance in masonry mortar.
- g. Mortars with color pigments shall be factory premixed.
- h. Mortar admixtures must have both A/E and University approval prior to specification and/or usage.
- i. Mortar shall not be re-tempered or used after it has begun to set.

04.5. Flashing & Weeps

- a. The use of a cavity drainage material or free-d



- d. Handling, protection and installation shall comply with the recommendations of the Indiana Limestone Institute of America, Inc.
- 04.13. Cast Stone Masonry
- a. All cast stone shall be minimum 6,500 psi co