

Division 4 - Masonry

04100 - Mortar

1. Mortar without a color admixture is preferred. Is ASTM C-27073, Type "S", specified for above grade use and Type "M" for below grade? If the building to be restored is historic, have provisions been made to use matching grout? (This may be revised for structural consideration and to conform to code requirements.)
(Specific drawing sheet #/specification page # _____)

Admixtures

2. Plasticizers, accelerators, retardants, water repellent agents, or other admixtures are not recommended for mortar unless specifically required. Has prior approval of the Owner been given?
(Specific drawing sheet #/specification page # _____)

04200 - Unit Masonry

1. Have ANSI/ASTM Standards been specified?
(Specific drawing sheet #/specification page # _____)

Tolerances

2. Tops of all masonry walls, exterior and interior, where applicable, should be built tightly against the floor construction above for stability, fire and sound protection, except where provision must be made for expansion, requiring alternative means for ensuring stability, etc. Have masonry and other anchors sizes and spacing been stated?
(Specific drawing sheet #/specification page # _____)

Mock-up

3. Have specifications required a composite masonry mock-up? Erect a 4 x 4 foot minimum panel size, include specified mortar and accessories. The panel shall show color range and texture of masonry units, bond mortar joints and demonstrate minimum standard for the work. Completed masonry work in the building shall be equal to that shown in the approved panel. The panel shall not be removed until masonry work is completed or until removal is authorized.
(Specific drawing sheet #/specification page # _____)

Concrete Unit Masonry

4. Have concrete masonry units been used for interior finished walls? All units shall comply with all structural codes and shall be properly protected at the job site to insure placing in the wall without excessive moisture content. Are these cmu interior walls where exposed on both sides a minimum of 6 inches thick? (Standard 8 inch thick units are preferred.)
(Specific drawing sheet #/specification page # _____)
5. Have all exposed external concrete block corners which extend to the floor (or to top of base) been bullnosed? Rub out all casting irregularities (so as to result in smooth transitions from flat face to rounded corner) before any

finish treatment is applied.
(Specific drawing sheet #/specification page # _____)

Weeps and Vents

6. Have treated wicks in weep holes been indicated?
(Specific drawing sheet #/specification page # _____)

Cavity Wall

7. Has a cavity been provided where concrete blocks are veneer faced with brick or precast units? Do not use units directly against the concrete block without employing a proven form of waterproofing.
(Specific drawing sheet #/specification page # _____)

Joint Reinforcement and Split Coursing

8. Has it been specified that no split coursing is allowed at the head of any type of opening?
(Specific drawing sheet #/specification page # _____)

9. Has it been specified to use truss-type 9 gauge galvanized wire masonry joint reinforcement? Ladder-type is not preferred.
(Specific drawing sheet #/specification page # _____)

04210 - Veneer Masonry System

1. Has all brick proposed, their size and their range of color, been approved by the FAU Project Manager? (Brick veneer masonry is not used on the Boca Raton Campus, but it may be required on other campuses to match existing FAU buildings or those of partner institutions.)
(Specific drawing sheet #/specification page # _____)

Mock-up (Sample Panel)

2. Has a mock-up been specified for review and approval? Mock-ups shall be erected in 4 X 4 foot panels, including specified mortar and any accessories. When accepted, the mock-up will demonstrate minimum standards for the Work (Color and blend of face brick shall generally match brick-work in a specific adjacent building or that typical on campus).
(Specific drawing sheet #/specification page # _____)

Coursing

3. Has it been indicated that all brick shall be laid with modular coursing, three courses to 8", unless otherwise required to match existing coursing or to accentuate an architectural feature or pattern. ASTM standard shall be complied with for all face brick, Grade SW, Type FBS. In addition, manufacturer's certification will be required stating that the rating for effervescence is not more than "slightly effervesced" in accordance with ASTM.
(Specific drawing sheet #/specification page # _____)

04270 - Glass Unit Masonry

Is there any non-load bearing glass unit masonry for either interior or exterior construction? If so, do the horizontal joint reinforcement and uniform joint treatment interface with adjacent wall systems? Is the design sufficiently detailed to show structural and code compliance?

(Specific drawing sheet #/specification page #_____)

04500 - Masonry Cleaning

1. Has the Southern Brick and Tile Manufacturing Association been referred to for bulletins covering cleaning. (Cleaning should be done sufficiently early for the walls to dry thoroughly; at least four weeks prior to application of silicone or other recommended waterproofing. Sandblasting is not recommended for bricks, terracota, or ceramic finished material. Has the A/E specified that brickwork, especially historic brick or stone work, must be inspected prior to application of waterproofing?)

(Specific drawing sheet #/specification page #_____)

Exterior Waterproofing

2. Has the A/E specified any exterior waterproofing being applied to masonry or stone walls?

(Specific drawing sheet #/specification page #_____)

End of Division 4 – Masonry.