

DIVISION 04—MASONRY

FORMAT

1. Technical specifications content and numbering system shall be based on 2004 CSI MasterFormat.

BASIS OF DESIGN

1. BGSU Design standards shall not replace fully developed, project and market specific technical specification. Architect/Engineer (A/E) shall utilize the Standards as a minimum standard to guide the design and execution in the field. Exceptions to these standards are allowed provided they are approved by Design & Construction.
2. In instances where fewer than 3 manufacturers are indicated, the A/E shall insert "or approved equal" in the Products section of the technical specifications.
3. All submitted substitute products shall be brought to the attention of Design & Construction, prior to approval.

RELATED SECTION

1. 093000—TILING

GENERAL PROVISIONS

1. For load bearing CMUs, use only ASTM C90 units.
2. Clay Facing Tile shall have select quality ceramic glaze 8W series.
3. Structural facing tile partitions shall be reinforced every second course with approved joint reinforcement.
4. Efflorescence Test for Face Brick: Submit to the Office of Design and Construction the manufacturer's certification that shows no efflorescence when tested in accordance with ASTM Method C67.
5. Sample Pane
 - a. Two weeks prior to starting veneer masonry work, at the discretion of the Project Manager, contractor shall build one sample panel for inspection and approval.
 - i. Build panel on a firm foundation as located by the Associate
 - ii. Panel shall be a minimum of 4'0 x 4'0
 - iii. Panel shall show color range and texture of masonry units, bond, mortar joints, and workmanship.
 - iv. Do not remove panel until work is completed or authorized by all parties.
6. Coursing: Brick shall be laid with modular coursing, three courses to eight inches, unless otherwise required to match existing coursing.
7. Design: Face brick elevations shall include structural considerations for division of such elevations into panels to accomplish structural support of the brick face and expansion joints for control of thermal expansion damage.

8. Full coursing only is permitted at the head of all openings.
9. Ink Marking Pens are prohibited.
10. Acid for Masonry Cleaning shall be included in applicable sections of the technical specifications.
11. Mortar
 - a. Mortar for Laying Masonry may be ready-mix or job mixed. Specify by types listed in ASTM C-270. Do not specify mortar which may corrode steel reinforcement or structure (i.e. Sara-bond).
 - b. Pointing mortar for clay facing tile shall be made with white silica sand and white Portland cement. Pointing mortar for existing masonry shall match color, texture and consistency.
12. Masonry Accessories
 - a. Wall Ties
 - i. For masonry veneer or facing to metal stud wall, backup may be anything comparable to AA Products No. AA401CE with No. AA400 Flex-O-Lok and stainless steel bolts and nuts and stainless steel washers for attachment to the metal studs. Sheet metal screws are NOT acceptable.
 - b. Joint Reinforcement shall be truss type. Wire mesh is prohibited.
 - c. Vents
 - i. shall be used near the top of the walls below coping no greater than 32" c/c.
 1. Stamped aluminum or commercial grade vinyl vents (mortar color-matched or translucent as selected by owner) of size to fit head joints in brickwork shall be used.
 2. Weep holes shall be installed above all penetrations into the masonry veneer, steel lintels, horizontal projections from building, etc.
 3. For restoration projects, vinyl tube with sash cord is required. Spacing shall be at 32" c/c, weeps just above flashings. If cord rope is used, it shall be cut off flush with the joint.
 - d. Flashing details shall be enlarged and show integral components of how the system is expected to function. All flashing shall be through-wall flashing. Reglets are not permitted.

044300—STONE

1. STONE
 - a. Backs and bonding faces shall be damp proofed with a water barrier.
 - b. Limestone shall be no closer than 4" to grade when adjacent to lawns and planting areas.
 - c. Anchors, dowels and other accessories used in setting stone shall be stainless steel.
2. MARBLE
 - a. Marble shall be domestic. Edges of marble window stools shall be eased.

3. GRANITE

- a. Granite shall be domestic. Granite shall be specified for exterior stair treads when heavy traffic is anticipated.

End of Section