

ITEM 10560.2012 M - MOSAIC TILE MEDALLIONS

DESCRIPTION

This work shall consist of furnishing and installation of mosaic tile medallions at the locations specified and as shown on the plans. In addition to the number of medallions required to be placed on structures, three additional medallions, one of each type (community insignia circle, standard square medallion, end pilaster medallion) as shown on the plans shall be furnished as spares. These spare medallions shall become the property of the Department and shall be delivered to the Nassau County Department of Public Works; 1550 Franklin Avenue; Mineola, NY 11501 or as directed by the Engineer.

MATERIALS

MOSAIC TILE

Glazed ceramic porcelain mosaic tiles shall be fabricated in the sizes, colors and patterns shown on the plans. The bisque shall be made from earthen bisque or feldspar of a thickness of 8 mm. The glaze shall be hand painted on the bisque. The bisque shall be fired at 980°C in a reduction atmosphere.

Tiles shall meet the following specifications:

<u>TEST NAME</u>	<u>PROCEDURE</u>	<u>ANSI STANDARD</u>
Water Absorption	ASTM C373	0.5% (Impervious)
Frost Resistance	ASTM C1026	
Crazing Resistance	ASTM C424	1 Cycle - 1,035 kPa
Thermal Shock	ASTM C484	No Disintegration
Bond Strength	ASTM C482	345 kPa or greater
Scratch Hardness	Mohs Scale	
Breaking Strength	ASTM C648	115 kg
Resistance	ASTM C1027	

Ceramic mosaic tiles shall be back-mounted onto fiber mesh or other suitable material. The mesh shall become an integral part of the tile installation. Back-mounted tile assemblies shall have sufficient exposure of each tile to comply with the bond strength requirements.

The manufacturer of the tiles and tile setting products shall be a company specializing in the manufacturing of products which meet the specification above, with at least ten (10) years of experience. The Contractor's installers shall be thoroughly trained with a minimum of five (5) years of experience. The Contractor's installers shall be capable in the necessary craft to provide quality work and shall demonstrate the following:

1. Production capability to meet the project schedules;
2. Artistic capability to faithfully produce the tiles in quality, dimension, color, texture and finish.

The tiles shall be obtained from a single source with the resource to provide products of consistent quality in appearance and physical properties without delaying the progress of the work. The following are known

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to be potential suppliers:

Terra Designs
241 Blackwell Street
Dover, NJ 07801
201-539-2999

MJM Studios
100 Central Avenue (Bldg. 89)
South Kearny, NJ 07032
201-465-5220

Summitville Clay Products Co.
Summitville, Ohio

The Contractor shall submit samples of the type of tiles to be provided, to the Engineer and the Regional Landscape Architect for approval, prior to ordering the production tiles.

Setting materials shall comply with pertinent recommendations in the Tile Council of America "Handbook for Ceramic Tile Installation".

Bond coat shall be a dry-set mortar, commercially prepared mixture of Portland Cement with sand and additives imparting water retentivity and used as a bond coat for setting clay tiles. Only potable water need be added to the dry-set mortar.

Grout shall be a dry-set grout, commercially prepared mixture of Portland Cement with sand and additives imparting water retentivity and suitable for clay tile installation. Only potable water need be added to the grout. Grout color shall be approved by the Engineer and the Regional Landscape Architect.

CONSTRUCTION DETAILS

The Contractor shall examine the areas and conditions under which this work is to be performed; correct conditions detrimental to the timely and proper completion of the work; not proceed until unsatisfactory conditions are corrected; comply with ANSI A108.1 for Tile Installed in Portland Cement Mortars and the "Handbook for Ceramic Tile Installation" of the Tile Council of America except as directed by the Engineer.

Specific instructions are as follows:

1. Dampen wall surfaces before mortar application;
2. Tiles do not require water soaking for installation;
3. After tiles have been set, apply grout and remove excess from faces of the tiles;
4. Provide damp curing for the mosaic tile installation using dry-set mortar and dry-set grout;
5. Maintain minimum temperature limits and installation practices recommended by the materials manufacturers.

Mosaic Ceramic Tile shall be cleaned after installation using only soap and water. A continuous covering of laminated, reinforced, non-staining kraft paper shall be installed for protection until acceptance. Such protection shall be maintained until removal is ordered by the Engineer. Upon removal, mosaic tile shall be cleaned again as directed by the Engineer.

SUBMITTALS

The Contractor shall submit the following for approval:

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- 1) Shop drawings for each type of mosaic medallion (community insignia circle, standard square medallion, end pilaster medallion) shown on the plans. The contractor's installer shall visit the site and examine the job conditions and verify field measurements as necessary. Any conditions that could adversely affect the installation should be reported to the Engineer. The installation shall not proceed until such adverse conditions have been resolved to the satisfaction of the Engineer.

METHOD OF MEASUREMENT

Mosaic Tile Medallions will be measured on a square meter basis to the limits shown on the plans.

BASIS OF PAYMENT

The unit price bid per square meter shall include the cost of all labor, equipment and materials necessary to furnish and install the mosaic tile medallions and provide spare mosaic tile medallions as directed under this item.