

ITEM 608.03 01 – PRECAST CONCRETE PAVERS FOR DRIVEWAYS, SIDEWALKS, AND BIKE PATHS

DESCRIPTION:

The Contractor shall furnish and install precast concrete pavers for driveways, sidewalks, and bike paths at locations and in configurations as shown on the plans, in accordance with the manufacturer's specifications, and as approved by the Engineer.

MATERIALS:

Precast Concrete Driveway and Sidewalk Pavers – 704-13. Sizes, shapes, and colors shall be as specified in the contract documents. A representative sample of the color blend to be used shall be submitted to the Regional Landscape Architect for approval prior to ordering materials for the job or beginning of work.

Bedding sand shall be manufactured sand meeting the material requirements of 703-07 Concrete Sand.

Polymeric sand shall be used to fill the joints between the pavers. Color shall be as specified in the contract documents.

Paver edge restraint shall be manufactured from PVC or aluminum in a "T" shape design that allows double nailing capacity. Color shall be as specified in the contract documents.

CONSTRUCTION DETAILS:

Precast concrete pavers shall be set on a loose course of bedding sand to the thickness specified on the plans. The Contractor shall establish the proper elevation of subbase material so upon setting pavers on the loose bedding sand the pavers shall project approximately 9 mm above the finished grade prior to compaction. Geotextile fabric shall be placed over the level and properly compacted subbase material prior to the placement of the bedding sand. The geotextile fabric shall be used to separate the dissimilar granular materials, as specified on the plans. Bedding sand shall be uniformly spread over the geotextile fabric and screened to the desired thickness using a depth control guide prior to setting pavers. The pavers shall be laid in patterns indicated in the contract documents by butting tight all edges of the pavers to adjacent pavers or supporting edges. The Contractor shall cut pavers as necessary to fill all spaces with a pneumatic cutter or saw designed for such purpose as recommended by the manufacturer. The Contractor shall set the pavers into the bedding sand by thoroughly tamping the surface area of the pavers with a vibratory plate compactor having a minimum 13.5 kN of centrifugal force. The pavers shall be protected with cardboard, carpet, or a woven geotextile fabric when using the vibrating plate.

After the pavers have been thoroughly vibratory tamped into the setting bed (as necessary to make the surface of the pavers flush with adjacent curb or sidewalk) polymeric sand shall be swept over the pavers and tamped again with the vibratory plate compactor to completely compact the filled joints.

The Contractor shall clean all surface areas by sweeping or other approved methods to remove excess polymeric sand and to provide a clean finished surface. Once the pavers have been satisfactorily cleaned, the Contractor shall lightly mist the surface of the pavers three or more sprayings, as per the manufacturer's specifications.

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The Contractor shall install a paver edge restraint, as per the manufacturer's specifications, when pavers are adjacent to lawn, planting bed, or crushed stone.

METHOD OF MEASUREMENT:

Precast concrete pavers shall be measured as the number of square meters of acceptably placed concrete pavers measured to the nearest tenth square meter placed in accordance with this specification and to the satisfaction of the Engineer.

BASIS OF PAYMENT:

The unit bid per square meter shall include the cost for all labor, materials, and equipment necessary to furnish and install precast concrete pavers including bedding sand, polymeric sand, paver edge restraint, cutting, tamping and cleaning of all work areas necessary to complete the work. Excavation, placement of geotextile fabric and subbase material and any specified preparation of the area where concrete pavers will be set prior to placement of the bedding sand be completed and paid for under separate pay items in the contract.