

ITEM 11608.0196 M - COLOR TINTED CONCRETE PAVING

Description:

This work shall consist of the construction of portland cement concrete paving. All work shall be in accordance with these specifications and in reasonable close conformity with the lines and grades shown on the Plans or established by the Engineer. In addition to the aforementioned requirements, the concrete shall be color tinted as indicated on the Plans.

Materials:

A. The material requirements and composition shall comply with the specifications for Class A concrete in Section 501-2 (Metric Edition), Portland Cement Concrete-General. Concrete shall be proportioned in accordance with the aggregate weights specified for Class A concrete in Table 501-3, Concrete Proportions.

B. Materials shall meet the requirements specified in the following Subsections 700 (Metric Edition), Materials:

Portland Cement	701-01
Fine Aggregate	703-01
Coarse Aggregate	703-02
Cushion Sand	703-06
Premoulded Resilient Joint Filler	705-07
Epoxy Coated Wire Fabric Reinforcement	709-08
Water	712-01

C. The color tinting pure pigment shall meet or exceed ASTM C979-82 (reapproved 1993) standards. It shall consist of both natural and synthetic pigment and shall not contain fillers or artificial adulterations. The color value shall be as specified on the plans.

D. Submittals:

1. The Contractor shall provide three (3) 300 by 300 mm sample panels of each custom color selected.

Construction Details:

A. The general construction details for manufacturing, transporting and placing concrete shall meet the requirements of Section 501 (Metric Edition), Portland Cement Concrete-General. Curing of the concrete shall meet the requirements of Section 502 (Metric Edition), Portland Cement Concrete Pavement, except that when a membrane curing compound is used it shall match the color of the pigment specified on the plans unless otherwise permitted by the Engineer.

B. The concrete shall be placed in one course to the fullest depth shown on the Plans. Epoxy coated wire fabric reinforcement, section 709-08 (Metric Edition), shall be embedded at mid-depth in the slab. The wire fabric shall consist of 5 mm diameter wire

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150 mm on center transversely and longitudinally.

- C. Transverse construction joints shall extend to the full depth of the slab and spaced 6.0 to 8.0 meters. The edge of such joints shall be finished to produce a smooth surface and then finished as indicated on the drawings to a uniform texture.
- D. A premoulded resilient joint filler, section 705-07 (Metric Edition), shall be installed at all joints between sidewalk and curb, pavement or other dissimilar material.
- E. Use of the same sand, cement brand and type for the entire project is required.
- F. The color tinting admixture shall be added directly to the mixer along with the aggregate, cement and water according to the manufacturer's instructions. The admixture shall be proportioned according to the manufacturer's instructions for the desired custom color tint selected by the Engineer. All tinted concrete shall be placed at the same slump.

Method of Measurement:

Portland Cement Concrete Paving shall be measured by the number of cubic meters of cement concrete including the color tint admixture, computed from payment lines shown on the Plans or as ordered by the Engineer.

Basis of Payment:

The price bid per cubic meter shall include the cost of preparing the subgrade, all materials, equipment and labor, premoulded resilient joint filter, color tinting admixture and test panels necessary to complete the work as specified.

Excavation and subbase course will be paid for under other Items of the Contract.