

## **ITEM 10608.0196 M - COLOR TINTED CONCRETE PAVING FOR CROSSWALKS**

### **Description:**

This work shall consist of the construction of color tinted portland cement concrete paving. All work shall be in accordance with these specifications and in reasonably close conformity with the lines and grades shown on the Plans or established by the Engineer.

### **Materials:**

- A. The material requirements and composition shall comply with the specifications for Class A concrete in Section 501-2, Portland Cement Concrete-General. Concrete shall be proportioned in accordance with the aggregate weights specified for Class A concrete in Table 501-3, Concrete Mixtures.
- B. Materials shall meet the requirements specified in the following Subsections:  
Premoulded Resilient Joint Filler 705-07
- 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 concrete shall be color tinted and/or sealed as indicated on the Plans to match the approved color sample.
- D. Liquid membrane-forming compounds for Curing Concrete shall meet or exceed ASTM C309 standards. It shall be compatible with the color tinting pigment and specified finished color unless otherwise permitted by the Engineer.
- E. Joint sealant shall be LITHOCHROME Colorcalk as manufactured by L. M. Scofield Company (800) 800-9900, VULKEM 45 as manufactured by TremCo Inc. (800) 321-7906, or approved equal.
- F. **Submittals:**
1. The Contractor shall provide 1.2 m by 1.2 m job site sample panels of each custom color selected for approval of the engineer. For accurate color, the quantity of concrete mixed to produce the sample should not be less than 2.3 cubic meters (not less than 1/3 the capacity of the mixing drum on the ready-mix truck.) Sample shall be constructed, jointed and finished as intended for permanent work. Sample shall be retained for comparison and provide a visual standard for the completed work.

### **Construction Details:**

- A. The general construction details for manufacturing, transporting and placing concrete shall meet the requirements of Section 501, Portland Cement Concrete-General. Curing

January 23, 2002

## **ITEM 10608.0196 M - COLOR TINTED CONCRETE PAVING FOR CROSSWALKS**

of the concrete shall meet the requirements of Section 502, 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.

- B. The concrete shall be placed in one course to the fullest depth shown on the Plans. Reinforcement shall be placed as specified and detailed on the plans.
- C. Longitudinal construction joints shall be constructed as shown on the plans.
- D. A premoulded resilient joint filler, section 705-07, shall be installed at locations shown on the plans to within 25 mm of the top of the slab. The top 25 mm of the joint shall be caulked with LITHOCHROME Colorcalk or VULKEM 45 Sealant joint sealant in a matching color.
- E. Use of the same sand, cement brand and type for the sample and 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. A curing membrane shall be applied per the manufactures specifications if required to match the proposed color sample.

### **Method of Measurement:**

Color Tinted Portland Cement Concrete Paving will be measured by the number of cubic meters of cement concrete 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 filler, joint sealant, color tinting admixture, concrete curing sealant and test panels necessary to complete the work as specified.

Excavation, subbase course and reinforcement will be paid for under other items of the Contract.