

ITEM 620.12----25 - STAMPED CONCRETE SLOPE PROTECTION

1. DESCRIPTION:

- 1.01 Under this item the Contractor shall construct a Bomanite/Bomacron Portland Cement concrete surfacing or approved equal by the Engineer on a prepared subbase, having the surface colored and imprinted with a pattern, of 4 in. thickness at locations shown on the plans or as directed by the Engineer. The pattern and color shall be as indicated on the plans.

2. MATERIALS:

- 2.01 The following materials shall meet the requirements specified in Section 700 – Materials:

Portland Cement	701-01
Coarse Aggregates	703-02
Concrete Sand	703-07
Wire Fabric for Concrete Reinforcement	709-02
Admixtures	711-08
Water	712-01
Metal Coatings	719-01

- 2.02 Concrete shall meet the requirements of Subsection 501, except that it shall have a minimum 28-day compressive strength of 4,000 psi and Air Content of 6.5%. Only air entraining and/or Set Retarding, Water Reducing (ASTM TYPE D) admixtures appearing on the NYSDOT Approved List will be permitted. The Contractor shall be responsible for designing the concrete mix and submitting it to the Engineer for approval.

- 2.03 Portland Cement shall be Type 1, 2 or 5.

- 2.04 Release agent shall be LITHOCHROME Colorcalk as manufactured by L.M. Scofield Company (800) 800-9900, or approved equal by the Engineer.

3. CONSTRUCTION DETAILS:

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

- 3.02 The concrete shall be placed on the prepared subbase in one (1) course to the full depth of 4 in.

- 3.03 Galvanized wire fabric for concrete reinforcement shall be set a mid-depth of the slab. Wire fabric shall be sized as such that a minimum reinforcement ratio of 0.0018 is provided, longitudinally and transversely. Wire fabric shall be tied to continuous, non-conductive chairs, which are securely imbedded into the subbase course to prevent shifting of the reinforcement mat during concrete placement.

- 3.04 The concrete shall be placed and screeded to the finished grade and floated to a uniform surface.

- 3.05 Release agent shall be applied evenly to the surface, as required.

- 3.06 While concrete is still in the plastic stage of set, the imprinting tool shall be applied to make the desired impression to the surface in accordance with the plans, specifications, or as ordered by the Engineer. Impressions shall not be deeper than ½ in.

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3. CONSTRUCTION DETAILS: (cont'd)

- 3.07 The surface shall be scored at intervals shown on the plans by means of a tool or may be sawcut to a depth of 1 in. If the sawcutting option is used, the sawcutting must be performed later that same day. Scoring/sawcutting shall be placed at every change in cross slope and longitudinally at intervals not to exceed 16 ft.
- 3.08 After initial set, the slab shall be pressure washed to remove excess release agent. At the completion of the curing period, the surface shall be allowed to dry before the surface is sealed with two (2) coats of a sealer appearing on the NYS Department of Transportation's Approved List. The second sealer coat shall be applied perpendicular to the first coat. Curing procedures shall meet the requirements of Section 502-3.11 – Curing.

4. METHOD OF MEASUREMENT:

- 4.01 The quantity of this work shall be the number of square feet of stamped concrete slope protection satisfactorily installed in accordance with the plans and specifications.

5. BASIS OF PAYMENT:

- 5.01 The unit bid price per square feet shall include the cost of furnishing all labor, material, and equipment necessary to complete the work, including galvanized wire fabric reinforcement, support chairs, and protective sealer. Necessary excavation and subbase course shall be paid under their respective items.