

STAMPED CONCRETE APRON

****From Hyde Park HES 030-2(34)**

- xx. DESCRIPTION. This work shall consist of furnishing and installing stamped concrete aprons at the locations shown in the Plans and as directed by the Engineer.

The work under this Section shall be performed in accordance with these provisions, the Plans, and Section 618 of the Standard Specifications.

- xx. MATERIALS. Where Stamped Concrete Aprons are specified in the Plans, a pattern that mimics random fieldstone shall be used to stamp the concrete, and a light gray color shall be applied to the concrete. The color shall be fully integrated into the concrete.

Alternative stamping patterns or colors may be used if approved by the Engineer. If alternative products are to be used, they shall be of equal quality, detail, function, and performance to that specified.

All materials, color, and the stamping pattern shall be approved by the Engineer prior to use.

- xx. CONSTRUCTION REQUIREMENTS. Stamped concrete aprons shall be constructed to the depths and widths shown in the Plans, as recommended by the manufacturer and as directed by the Engineer.

- (a) Preparation. The Contractor shall plan the pattern layout in order to coordinate slab dimensions and construction joint locations with stamping pattern dimensions where necessary.

The Contractor shall provide a 0.5 m x 1.2 m (1.5 foot x 4 foot) mock-up to the Engineer to demonstrate methods of obtaining consistent visual appearance. The mock-up shall be constructed a minimum of one month prior to the start of final work, using materials and methods to be used in the final work. The mock-up shall be located on site in a location determined by the Engineer. Samples of materials used in the mock-up shall be retained for comparison with materials used in the final work. The accepted mock-up will constitute a visual standard for the final work. The mock-up shall be removed when no longer required for comparison with the final work.

- (b) Finishing. A color hardener shall be broadcast evenly over a freshly screeded and floated concrete surface. The color hardener shall be worked into the concrete surface, integrating the color with the concrete. The hardener shall be allowed to be wet out with bleed water prior to floating. If necessary, additional material shall be broadcast and worked into the surface to intensify the final color appearance.

The concrete set time shall be monitored carefully. When concrete is set adequately to support worker's weight, color release shall be broadcast evenly over the slab surface at the rate of 1.46 kg/10 m² (3 lbs/100 ft²).

The stamping operation shall be performed using the stamping tool kit, and shall be performed quickly and continuously across the entire pour as follows:

- (1) Place each tool on slab surface, aligned with each other and slab edges as pattern requires.
- (2) Step on back of stamping tool to create full depth impression in concrete.
- (3) Use special half tools and texture mats at slab edges, walls, and corners.
- (4) Broom texture surface where required.

The concrete slab shall be allowed to thoroughly cure prior to rinsing residual powder release from the surface. Ensure the surface is clean and apply protective waterproofing sealer to flush apron only.

xx. QUALIFICATIONS. The Contractor shall be ACI certified and have constructed a minimum of 10 concrete stamping projects. The Contractor shall submit a resume, including a minimum of 3 references from concrete stamping projects constructed within 2 years prior to the commencement of this project, to the Engineer for review and approval. The work under this Section shall not commence until the Engineer approves Contractor qualifications.

xx. METHOD OF MEASUREMENT. The quantity of Special Provision (Stamped Concrete Apron) of the depth specified to be measured for payment will be the number of square meters (square yards) of stamped concrete apron placed in the complete and accepted work.

xx. BASIS OF PAYMENT. The accepted quantity of Special Provision (Stamped Concrete Apron) of the depth specified will be paid for at the Contract unit price per square meter (square yard). Payment will be full compensation for furnishing, handling, and placing the materials specified, including concrete, and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
900.675 Special Provision (Stamped Colored Concrete Apron, 8 Inch)	Square Meter (Square Yard)