

Section 32 13 16
Decorative Concrete Paving-SANDSCAPE ®

PART I GENERAL

1.1 SECTION INCLUDES

- A. Full depth *Sandscape®* Concrete flatwork.
- B. Cast-in-place concrete planter curbs with *Sandscape®* finish.

1.2 DESCRIPTION – *Sandscape®* Concrete Includes:

- A. Materials: concrete, integral color, surface treatment.
- B. Pressurized cleaning equipment
- C. Concrete placement and finish
- D. Surface treatment
- E. Sealer Application

1.3 SUBMITTALS

- A. Submit samples, minimum 2' x2' as required showing color, finish and sealer
- B. Color chart for concrete
- C. Product data for surface treatment and sealer materials
- D. Concrete mix design

1.4 CONTRACTOR

- A. Cast-in-place *Sandscape®* Concrete is to be installed by a decorative concrete contractor with a minimum of 5 years experience installing *Sandscape®* Concrete and having installed a minimum of 50,000 s.f. within a 50 mile radius of the job site, in the last five years. The contractor shall submit a list of five prior installations, with photos of each for the customer to view in order to evaluate the overall level of quality and expertise demonstrated by the contractor.
- B. Contractor may be required to place an 8' x8' on-site referee sample indicating consistency, isolation joints, control joints and caulking. Said sample shall be retained for the duration of the job and used as the standard for installed work.
- C. Preferred installer to be Colorado Hardscapes, Inc. Please contact:
Colorado Hardscapes, Inc.
8085 E. Harvard Ave.
Denver, CO 80231
303-750-8200

PART 2 PRODUCTS

2.1 CONCRETE

- A. Mix Design
 - a. Concrete shall have a minimum of 4000 psi (per ACI 318) or as required by local building codes or industry standards, whichever is higher
 - b. Portland Cement shall conform to ASTM C150, C595 or C1157 depending on soil conditions.
 - c. Aggregate shall conform to ASTM C33
 - d. Air entrainment shall conform to ASTM C260

2.2 COLORING, TEXTURE AND SEALING MATERIALS

- A. The concrete shall be colored with the following *Sandscape®* color: TBD
- B. CHI 027 Surface Treatment will be used to achieve the desired texture
- C. Slabs shall be sealed with a penetrating sealer in accordance with the manufacturer's recommendations. Submit sealer for approval.

PART 3 EXECUTION

3.1 INSTALLATION

- A. The area to receive *Sandscape®* concrete shall have the sub-grade prepared as required as for any concrete slab on grade.
- B. The formwork shall be installed in accordance with the drawings. *Sandscape®* concrete shall be 5" thick. Walls to be per structural engineer's recommendations.
- C. Reinforcement shall include #4 rebar @18" o.c.e.w. and Fibermesh 300.
- D. Control joints and/or isolation joints shall be provided in accordance with the drawings and the guidelines established by the American Concrete Institute. As with any concrete slab, *Sandscape®* concrete usually contains construction joints, control joints and expansion joints. The contractor shall advise and work with the architect/engineer to determine the best location for these joints to minimize the visibility of the joints and to minimize unsightly cracking.
- E. All concrete flatwork shall be performed under the supervision of a craftsman who has completed the American Concrete Institute (ACI) Concrete Flatwork Finisher and Technician (ACICFFT) training and has five years of experience installing *Sandscape®*.
- F. The concrete shall be placed and screeded to the finished grade, and floated to a uniform surface using standard finishing techniques.
- G. All *Sandscape®* curb/wall work to be installed using smooth forms, stripped while concrete is workable and troweled smooth.
- H. Surface Treatment will be applied and cleaned off with proper equipment.
- I. After the initial curing period the surface of the slab shall be sealed.

3.3 INSTALLATION TOLERANCES

- A. Uniformly finish the concrete surface
- B. Uniformly apply the CHI 027 surface treatment
- C. Install control joints in a timely manner to minimize random cracking.
- D. Remove the surface down to the fine aggregate using pressurized equipment. Care shall be taken to not leave any deep or shallow inconsistencies in the overall *Sandscape®*.
- E. Evenly apply the recommended sealer
- F. Clean up project site