

**Division 32 Exterior Improvements
SECTION 32 14 13
PRECAST CONCRETE UNIT PAVING**

PART 1 - GENERAL

1.01 GENERAL REQUIREMENTS

- A. The Contractor is referred to the Instructions to Bidders and General Conditions, NYCHA Contracts; the Special Notice to Contractors; the Form of Proposal; the Form of Bid Bond; Division 01 - General Requirements of the Contract Specifications; the Contract Drawings and all Amendments and Addenda thereto; all of which govern the Work of this Section.

1.02 SECTION INCLUDES

- A. Concrete paver units.
B. Sand setting bed.
C. Sand joint filler.

1.03 REFERENCE STANDARDS

- A. ASTM C33/C33M - Standard Specification for Concrete Aggregates; 2013.
B. ASTM D5268 - Standard Specification for Topsoil Used for Landscaping Purposes; 2013.

1.04 SUBMITTALS

- A. See Section 01 33 00 – Submittal Procedures, for submittal procedures.
B. Product Data: Provide manufacturer's specifications and descriptive literature, installation instructions, and maintenance information.
C. Shop Drawings: Indicate plans for each unit or groups of units, elevations with model number, overall dimensions; construction, and anchorage details.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Concrete Pavers: Also acceptable, subject to compliance with specified requirements:
1. Anchor Concrete Products, Inc., www.anchorcp.com
 2. Unilock, Inc: www.unilock.com.
 3. or equal

2.02 MATERIALS

- A. Pavers: Precast concrete.
1. Compressive Strength: Minimum of 8,000 psi
 2. Water Absorption: maximum of 5 percent.

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3. Air Entrainment: 5 to 7 percent.
 4. Thickness: 2 3/8"
 5. Color: To Be Determined
 6. Pattern to be determined.
- B. Sand for Setting Bed: Clean washed natural sand or crushed stone complying with gradation requirements of ASTM C33/C33M for fine aggregates.
- C. Sand for Joints: Fine washed sand with 100 percent passing No. 16 (1.18 mm) sieve and not more than 10 percent passing No. 200 (0.075 mm) sieve or polymeric jointing sand as indicated on the drawings.
- D. Permanent steel curbing/edging if called for on the Drawings shall be as manufactured by Border Concepts, Charlotte, NC, Telephone 1.800.845.3343, Avanti Industries, Inc., phone 718.406.4116, or equal. It shall be 1/4 inch thick by five (5) inches wide and furnished in 16-foot long sections with slots pressed out along the length and at the ends. The ends shall be shaped to allow interlocking of adjoining sections. The curbing/edging shall be installed flush with the finished surface of the asphalt paving and staked securely in place with tapered steel stakes 12 inches long. Stakes shall be set through the slots in the curbing/edging and driven in place flush with top of curbing/edging.

PART 3 - EXECUTION

3.01 INSTALLATION OF SOLID PAVER UNITS

- A. Stone screenings shall be spread to a minimum depth of 4 inches and be compacted to 95% minimum density. Filter fabric (Marifi 500X or equal) shall then be laid over the entire area, turning up the ends as necessary. Filter fabric shall over-lap with 6" overlap. The sand setting bed shall then be spread evenly and loosely screeded to two inches thick.
- B. Dampen and roller compact sand to level and even surface.
- C. Screed and scarify top 1/2 inch (12 mm) of sand.
- D. Place paver units in grid pattern, from straight reference edge.
- E. Place paver units in pattern indicated on the drawings.
- F. The Contractor shall then lay the pavers on the sand by hand. The Contractor shall place the pavers in the pattern indicated on the Drawings; units must be laid with butted joints not to exceed 1/8". Alignment must be consistent so that the pattern will remain constant, guided over the entire area several times, until they are uniformly level, true to grade and free from any movement.
- G. Cut paver units at edges with masonry saw.
- H. Place half units at edge and interruptions. Maintain tight joints.
- I. Sprinkle sand over surface and sweep into joints. Moisten joints and recover with additional sand until firm joints are achieved. Remove excess sand.
- J. Tamp and level paver units with mechanical vibrator until units are firmly bedded, level, and to correct elevation and gradients. Do not tamp unrestrained edges. Before vibrating the

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pavers, the Contractor shall saturate the newly laid pavers with water. The pavers shall then be compacted with a plate vibrator having a compaction force of 3,000 to 5,000 psi.

- K. The Contractor shall notify the NYCHA Inspector responsible for this contact, 24 hours in advance of commencing the installation of the concrete pavers, so that a representative may be present.

END OF SECTION