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321400 - A - Unit Paving

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SECTION 32 1400 - UNIT PAVING

1.1 SUMMARY

A. Section Includes:

1. Concrete Pavers: Set in aggregate, bituminous and mortar setting beds.
2. Porous Pavers: see Section 32 1443
3. Brick Pavers
4. Steel or Aluminum edge restraints.

1.2 SUBMITTALS

1.3 Point folks to new leed section currently being developed. CONCRETE PAVERS

- A. Regional Materials: Provide concrete pavers that have been manufactured within 500 miles (800 km) of Project site from aggregates and cement that have been extracted, harvested, or recovered, as well as manufactured, within 500 miles (800 km) of Project site.
- B. Concrete Pavers: Solid interlocking paving units complying with ASTM C 936 and resistant to freezing and thawing when tested according to ASTM C 67, made from normal-weight aggregates. Installations shall utilize full system from manufacturer, or engineers' recommendations, all components of paver system to be part of approved manufacturer installation guidelines, including base material, edging, paver, joint material etc. HS20 or greater loading may be required for roadways or access road installations. Engineered plans will be required.
- a. Genest Pavers; Sanford, ME.
 - b. Ideal Pavers; Westford, MA, distributed through Goodrich (Epping, NH).
 - c. Unilock Pavers; Uxbridge, MA, distributed through Land Care (Madbury, NH).

1.4 ACCESSORIES

- A. Compressible Foam Filler: Preformed strips complying with ASTM D 1056, Grade 2A1.

1.5 AGGREGATE SETTING-BED MATERIALS

- A. Graded Aggregate for Base: Sound, crushed stone or gravel complying with ASTM D 448 for Size No. 8.
- B. Sand for Leveling Course: Sound, sharp, washed, natural sand or crushed stone complying with gradation requirements in ASTM C 33 for fine aggregate.

- C. Sand for Joints: Fine, sharp, washed, natural sand or crushed stone with 100 percent passing No. 16 (1.18-mm) sieve and no more than 10 percent passing No. 200 (0.075-mm) sieve.
- D. Drainage Geotextile: Nonwoven needle-punched geotextile fabric, manufactured for subsurface drainage applications, made from polyolefins or polyesters; with elongation greater than 50 percent; complying with AASHTO M 288 and the following, measured per test methods referenced:
 - 1. Apparent Opening Size: No. 40 (0.425-mm) sieve, maximum; ASTM D 4751.
 - 2. Permittivity: 0.5 per second, minimum; ASTM D 4491.

1.6 BITUMINOUS SETTING-BED MATERIALS

- A. Fine Aggregate for Setting Bed: ASTM D 1073, No. 2 or No. 3.
- B. Asphalt Cement: ASTM D 3381, Viscosity Grade AC-10 or Grade AC-20.
- C. Neoprene-Modified Asphalt Adhesive: Paving manufacturer's standard adhesive consisting of oxidized asphalt combined with 2 percent neoprene and 10 percent long-fibered mineral fibers containing no asbestos.
- D. Sand for Joints: Fine, sharp, washed, natural sand or crushed stone with 100 percent passing No. 16 (1.18-mm) sieve and no more than 10 percent passing No. 200 (0.075-mm) sieve.

1.7 BITUMINOUS SETTING-BED MIX

- A. Mix bituminous setting-bed materials at an asphalt plant in approximate proportion, by weight, of 7 percent asphalt cement to 93 percent fine aggregate unless otherwise indicated. Heat mixture to 300 deg F (149 deg C).

1.8 INSTALLATION

- A. Joint Pattern: Basket weave or herringbone; with a border.
 - 1. Pattern and selected paver shall withstand snowplowing operations and service vehicle traffic. Project dependent loading requirements must be met per engineer's specifications. .

END OF SECTION 32 1400

ATTACHMENTS:

Attachment A: Crosswalk Detail ICPI-13
Attachment B: Sidewalk Detail ICPI-17