



**SPECIAL PROVISIONS
FOR
UNIT PAVERS**

**Polk County
TAP-T-8477(613)--8V-77**

**Effective Date
May 19, 2015**

THE STANDARD SPECIFICATIONS, SERIES 2012, ARE AMENDED BY THE FOLLOWING MODIFICATIONS AND ADDITIONS. THESE ARE SPECIAL PROVISIONS AND THEY SHALL PREVAIL OVER THOSE PUBLISHED IN THE STANDARD SPECIFICATIONS.

PART 1 - GENERAL

1.1 RELATED DOCUMENTS:

Drawings.

1.2 DESCRIPTION OF WORK:

Provide all labor, materials, equipment and supervision required to furnish and install unit pavers.

1.3 SUBMITTALS:

A. Paver manufacturer's material test data certifying pavers comply with specification.

B. Paver sample.

1.4 CODES, PERMITS AND FEES:

A. Obtain any necessary permits for this work and pay any fees required for permits.

B. The entire installation shall fully comply with all local and state laws and ordinances, and with all established codes applicable thereto.

1.5 SITE DISTURBANCES:

A. Take precautions to insure that equipment and vehicles do not disturb or damage existing site grading, walks, drives, utilities, plants, etc.

- B. Verify locations and depths of all underground utilities prior to excavation.
- C. Repair and/or return to original condition any damage caused by Contractor's negligence at no cost to Contracting Authority.
- D. Provide temporary barricades and warning lights as required for protection of project work and public safety.

PART 2 - PRODUCTS

2.1 CLAY PAVERS:

- A. Products: Subject to compliance with requirements as set forth in ASTM C 902 – Pedestrian and Light Traffic Paving Brick, Weather Class SX, Application PX provide one of the following:
 - 1. Belden Brick – Claret Velour
 - 2. Yankee Hill Brick – Maroon Velour
 - 3. Glen-Gery Brick – Maroon Classic
- B. Paver Size: 4 inches by 2 1/4 inches by 8 inches with chamfer and lugs.
- C. Minimum Compressive strength: 10,000 psi.
- D. Do not exceed variations in color and texture of samples accepted by the Engineer.

2.2 AGGREGATE SETTING-BED MATERIALS:

- A. Graded Aggregate for Subbase: Sound, crushed stone or gravel complying with ASTM D 448 for Size No. 57.
- B. Graded Aggregate for Base: Sound, crushed stone or gravel complying with ASTM D 448 for Size No. 8.
- C. Sand for Leveling course: Sound, sharp, washed, natural sand or crushed stone complying with gradation requirements in ASTM C 33 for fine aggregate.
- D. Sand for Joints: Polymeric Sand with fine, sharp, washed, natural sand or crushed stone with 100% passing No. 16 sieve and no more than 10% passing No. 200 sieve.

PART 3 - EXECUTION

3.1 PREPARATION OF AGGREGATE SUB-BASE:

- A. Compact soil subgrade uniformly to at least 95% of ASTM D 698 laboratory density.
- B. Proof-roll prepared subgrade to identify soft pockets and areas of excess yielding. Excavate soft spots, unsatisfactory soils, and areas of excessive pumping or rutting as determined by the Engineer and replace with compacted backfill or fill as directed.
- C. Place aggregate base, compact by tamping with plate vibrator, and screed to depth indicated.
- D. Place aggregate base, compact to 100% of ASTM D 1557 maximum laboratory density, and screed to depth indicated.

- E. Place leveling course and screed to a thickness of 1 1/2 inches, taking care that moisture content remains constant and density is loose and constant until pavers are set and compacted.
- F. Treat leveling course with herbicide to inhibit growth of grass and weeds.
- G. Set pavers with a minimum joint width of 1/16 inch and a maximum of 1/8 inch, being careful not to disturb leveling base. If pavers have spacer bars, place pavers hand tight against spacer bars. Use string lines to keep straight lines. Fill gaps between units that exceed 3/8 inch with pieces cut to fit from full-size unit pavers
- H. Vibrate pavers into leveling course with a low-amplitude plate vibrator capable of a 3500- to 5000 pound per square square foot compaction force at 80 to 90 Hz. Perform at least three passes across paving with vibrator. Vibrate under the following conditions:
 1. After edge pavers are installed and there is a completed surface or before surface is exposed to rain.
 2. Before ending each day's work, fully compact installed concrete pavers to within 36 inches of the laying face. Cover pavers that have not been compacted, and leveling course on which pavers have not been placed, with nonstaining plastic sheets to protect them from rain.
- I. Spread dry sand and fill joints immediately after vibrating pavers into leveling course. Vibrate pavers and add sand until joints are completely filled, then remove excess sand. Leave a slight surplus of sand on the surface for joint filling.
- J. Do not allow traffic on installed pavers until sand has been vibrated into joints:

3.2 PLACEMENT OF PAVERS:

- A. Begin laying pavers from the edge/s referenced on the drawings.
- B. Place pavers by hand.
- C. Always work on top of laid pavers.
- D. A chalk line may be snapped on asphalt base to assist in alignment of pavers.
- E. Complete placement of whole pavers over entire area.
- F. Complete placement of pavers by placing cut pavers along edges.
- G. Joint Pattern: Running Bond

3.3 JOINT FILLING:

- A. Cross directionally sweep a thin layer of sand over the entire paver area.
- B. Fill paver joints to within 1/2 inch of surface.

3.4 CLEAN-UP:

- A. Sweep excess sand from paved surfaces and remove from site.
- B. Remove all excess materials and debris from site.

3.5 MEASUREMENT AND PAYMENT:

A. Unit Pavers

1. Measurement and payment for this item shall be made on a per square foot basis. Included with item is all labor, equipment, and materials necessary for furnishing and installation the unit pavers.