

## SECTION 114 – UNIT PAVERS (CLAY)

1. GENERAL:

The work covered in this section consists of furnishing all equipment, materials and labor required for the installation of the brick pavers in the locations shown on detailed drawings.

2. SUMMARY:

A. This section includes the following:

1. Brick pavers set on sand leveling course.
2. Steel edge restraints for unit pavers.

3. SUBMITTALS:

A. Product data for the following:

1. Brick Pavers.
2. Edge restraints.

B. Samples for verification in full-size units of each type of unit paver indicated; in sets for each color, texture, and pattern specified, showing the full range of variations expected in these characteristics.

4. QUALITY ASSURANCE:

A. Installer Qualifications:

Engage an experienced Installer who has completed unit paver installations similar in material, design, and extent to that indicated for this Project and with a record of successful in-service performance.

B. Single-Source Responsibility:

Obtain each color, type, and variety of unit pavers and aggregate materials from a single source with resources to provide products and materials of consistent quality in appearance and physical properties without delaying the work.

5. DELIVERY, STORAGE AND HANDLING:

A. Protect unit pavers and aggregate during storage and construction against soilage or contamination from earth and other materials.

1. Wrap pavers in plastic or use other packaging materials that will prevent rust marks from steel strapping.

6. PROJECT CONDITIONS:

A. Cold-Weather Protection:

Do not use frozen material or materials mixed or coated with ice or frost. Do not build on frozen subgrade or setting beds. Remove and replace unit paver work damaged by frost or freezing.

7. PRODUCTS:
- A. MANUFACTURERS:
1. Manufacturers:  
Subject to compliance with requirements, provide products by one of the following:
- a. Brick Pavers:  
1. Endicott Pavers, Endicott Clay Products Company
- b. Steel Edge Restraints:  
1. As recommended by manufacturer of unit pavers.
- B. COLORS AND TEXTURES:
1. Provide materials and products that result in colors and textures of exposed unit paver surfaces complying with the color and layout requirements shown on the plans.
- C. UNIT PAVERS:
1. Brick Pavers:  
Solid, brick units, ASTM C 1272, 4" x 8" x 2 ¼".
- D. ACCESSORIES:
1. Steel Edge Restraints:  
a. Manufacturer's recommended type and size for use with the specified brick pavers.
- E. AGGREGATE SETTING-BED MATERIALS:
1. Aggregate for Base Course:  
Material and gradation requirements for aggregate base course shall match those for KDOT's AB-3. Place and compact aggregate base course to 98% of Standard Proctor.
2. Sand for Leveling Course:  
Fine, sharp, nonplastic aggregate complying with ASTM C 33.
3. Sand for Joints:  
Fine, sharp, masonry sand with 100 percent passing the No. 16 (1.18mm) sieve and no more than 10 percent passing the No. 200 (0.075 mm) sieve.
8. EXAMINATION:
- A. Examine surfaces indicated to receive paving, with installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of unit pavers. Do not proceed with installation until unsatisfactory conditions have corrected.

9. PREPARATION:
- A. Clean substrates to remove dirt, dust, debris, and loose particles.
  - B. Proof-roll prepared subgrade surface to check for unstable areas and areas requiring additional compaction. Do not proceed with installation of unit pavers until deficient subgrades have been corrected and are ready to receive aggregate base for unit pavers.
10. INSTALLATION, GENERAL:
- A. Do not use unit pavers with chips, cracks, voids, discolorations, and other defects that might be visible or cause staining in finished work.
  - B. Mix pavers from several pallets or cubes as they are placed to produce uniform blend of colors and textures.
  - C. Cut unit pavers with motor-driven masonry saw equipment to provide clean, sharp, unchipped edges. Cut units to provide pattern indicated and to fit adjoining work neatly. Use full units without cutting where possible. Hammer cutting is not acceptable.
  - D. Joint Pattern:  
As indicated on the plans.
  - E. Provide edge restraints as indicated.
    - 1. Install edge restraints to comply with manufacturer's directions. Place stakes at intervals required to hold edge restraints in place during and after installation of unit pavers.
11. AGGREGATE SETTING-BED PAVER APPLICATIONS:
- A. Compact soil subgrade uniformly to at least 95 percent of ASTM D 1557 laboratory density.
  - B. Place aggregate base to thickness indicated. Compact by tamping with plate vibrator and screed to depth required to allow setting of pavers.
  - C. Place sand for leveling course and screed to a thickness of 1 +/- inches, taking care that moisture content remains constant and density is consistent until pavers are set.
  - D. Set pavers tightly adjacent to each other, 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.

12. REPAIR, CLEANING, AND PROTECTION:

A. Remove and replace unit pavers that are loose, chipped, broken, stained, or otherwise damaged or if units do not match adjoining units as intended. Provide new units to match adjoining units and install in same manner as original units, with same joint treatment to eliminate evidence of replacement.

B. Provide final protection and maintain conditions in a manner acceptable to installer that ensures that unit paver work is without damage or deterioration at the time of Substantial Completion.