

VIRGINIA DEPARTMENT OF TRANSPORTATION

LOCATION AND DESIGN DIVISION

INSTRUCTIONAL AND INFORMATIONAL MEMORANDUM

GENERAL SUBJECT: Sidewalk / Crosswalk Pavers	NUMBER: IIM-LD-218.5
SPECIFIC SUBJECT: Guidelines for the Use of Solid Paver Units	DATE: March 10, 2023
	SUPERSEDES: IIM-LD-218.4
APPROVAL:	Emmett Heltzel, P.E. State Location and Design Engineer Approved March 10, 2023

Changes are shaded.

CURRENT REVISION

-
- This memorandum was revised to delete the Item Codes and to add the link to the webpage with the current Item Codes.
-

EFFECTIVE DATE

-
- This memorandum is effective upon receipt.
-

POLICY

-
- A Locality may request the installation of paver units, thermoplastic patterned inlays, asphalt texturing or coloring, and/or non-standard pavement products within VDOT right of way.
 - Requests must be in writing and submitted to the District Construction Engineer.
 - Approval from the District Construction Engineer will be based upon appropriate traffic conditions and context sensitive design principles.

- Paver units, thermoplastic patterned inlays, asphalt texturing and coloring products shall be installed in accordance with VDOT and American's with Disability Act (ADA) design requirements.
 - On roadways within VDOT's system, the incremental cost for paver units, thermoplastic patterned inlays, asphalt texturing or coloring, or other non-standard pavement materials included in a VDOT construction project will be incurred by the requesting entity; VDOT will participate at the normal project participation rate for standard materials only. Cost for such installations on roadways outside VDOT's system will be incurred by the entity requesting the installation.
-

MAINTENANCE

- VDOT will not be responsible for the repair or replacement of damaged paver units or other non-standard pavement materials or treatments located within the right of way on VDOT maintained roadways. VDOT will only be responsible for ordinary roadway maintenance (snow clearing or debris clearing). The locality will be responsible for the replacement of all pavers should the locality decide that it no longer wants pavers and/or other non-standard materials. Under these circumstances, an acceptable alternative shall be provided. Exceptions may include project specific written agreements that are made between a locality and VDOT for VDOT to assume maintenance of such work.
 - Cities shall be responsible for the repair and maintenance of paver units, thermoplastic patterned inlays, asphalt-textured and colored surfaces within the City Corporate Limits, once a project is accepted by the City. Applications of thermoplastic patterned inlays, asphalt-textured and colored surfaces outside the City Corporate Limits shall be maintained by the Local Governing Body.
 - On VDOT maintained roads, boring is required for the installation of utilities under paver units, thermoplastic patterned inlays, asphalt, textured and colored surfaces on crosswalks (trenching is not allowed) by utility companies. Utility companies shall be required to repair or replace damaged paver units, thermoplastic patterned inlays, asphalt textured and colored surfaces, in accordance with the original design or current VDOT requirements.
 - District personnel (usually the Residency Engineer/Administrator or their representative) will provide copies of and/or discuss these guidelines with requesting localities.
-

DESIGN GUIDELINES

- VDOT's sidewalk/crosswalk design details using paver units intends to comply with ADA requirements by attempting to prevent any incidental settlement to occur that would cause a change in elevation between paver units of more than 1/4".

- If a roadway with crosswalk paver units is to be overlaid, the existing roadway pavement must be milled to the crosswalk grade. Where asphalt texturing and coloring has been used, the locality shall be responsible for re-texturing and re-coloring the asphalt to match the original pattern and color.
 - Paver Units or Asphalt texturing and coloring is not recommended when traffic volumes exceed 5,000 ADT.
 - Thermoplastic patterned inlay products are designed for high traffic volume areas receiving little or no maintenance. However, their use should be considered on a case-by-case basis.
-

PAYMENT

- Pay Items for paver work or other special textural treatments will fall under the “Non-Standard” (NS) **Pavement Items** category and descriptions may vary depending on the specific work to be performed. The following are some suggested Unit Descriptions that may cover a variety of applications.
 - Clay Brick Paver Units S.Y.
 - Vehicular Clay Brick Paver Units S.Y.
 - Concrete Brick Paver Units S.Y.
 - Textured and Colored Asphalt S.Y.
 - Thermoplastic Patterned Inlay S.Y.
 - Sidewalks, for example, should be set up as NS Sidewalk Items. Crosswalks or similar roadway applications should be set up as NS Pavement Items. Specifications for various paver units, thermoplastic patterned inlays, asphalt texturing and coloring products/applications may be obtained from the Central Office Location and Design, Special Design Section.
 - Item Codes can be found on the following webpage at <https://www.virginiadot.org/business/const/resource.asp>
-

DETAIL SHEETS

- Insertable sheets A-97 (Imperial) and MA-97 (Metric) for Solid Paving Units (Sidewalk and Crosswalk) are now void. Projects specifying concrete or clay brick pavers for sidewalks or crosswalks will require a special design detail. Please contact the Central Office Location and Design, Special Design Section with questions concerning paver units and their applications.