



VELASCO DRAINAGE DISTRICT
Standard Specification:

Subsurface Facility Installation Depth Requirements

Revision Control

Revision Number	Date	Author
1.0 – Approved for use	11/01/2016	HSS - District Engineer

A handwritten signature in black ink, appearing to read 'H. S. Smith', written over a horizontal line.

Herbert S. Smith, P.E.
President, Baker & Lawson, Inc.
District Engineer, Velasco Drainage District



November 1, 2016

1.0 Scope and Discussion

- 1.1 This specification shall govern the depth requirements of the installation of subsurface facilities below the premises of the Velasco Drainage District.
- 1.2 This specification applies to depth requirements of installation of subsurface facilities below the premises of the Velasco Drainage District that does not require approval by the United States Army Corps of Engineers (USACE) as a Section 408 Review.
- 1.3 For projects requiring installation of subsurface facilities below the Freeport, and Vicinity, Hurricane Flood Protection Levee System, or other actions which trigger an USACE Section 408 Review as noted above, contact the Velasco Drainage District before detail planning for the work has begun, as permitting and design criteria will require substantial time when compared to a project without USACE Section 408 Review.
 - 1.3.1 In general, USACE Section 408 Review is triggered by a major action such as relocation of the levee or replacement of a levee component (such as sheet pile with an earthen levee).
 - 1.3.2 Section 408 reviews will add 30-240 days to project time line.

2.0 Subsurface Facility Installation Depth Requirements

- 2.1 Minimum depth of installed facility **below the hurricane levee protection system** is 30 feet below natural ground at levee. Permittee shall provide detailed plans and specifications to the Velasco Drainage District for approval. Permittee shall address as a minimum, issues noted in the District's specification – Horizontal Directional Drilling.
- 2.2 Minimum depth of installed facility **below a major channel** is 20 feet below the flow line of channel. Permittee shall provide detailed plans and specifications to the Velasco Drainage District for approval.
- 2.3 Minimum depth of installed facility **below a minor channel** is 10 feet below the flow line of channel. Permittee shall provide detailed plans and specifications to the Velasco Drainage District for approval.

3.0 General

- 3.1 Permit has minimum requirements governing installation of subsurface facilities below district premises.
- 3.2 All detailed plans and specifications must bear the seal of a Licensed Professional Engineer – Texas (LPE-T).

END OF SPECIFICATION