

**Item No. 635S
Perimeter Dike**

635S.1 Description

This item shall govern construction of a temporary ridge of compacted soil located along the perimeter of the site or disturbed area. The removal of the entire structure and re-vegetation of the area are also included in this item. The purpose of a perimeter dike is to prevent offsite storm runoff from entering the disturbed area and to prevent sediment-laden storm runoff from leaving the construction site or disturbed area.

This specification is applicable for projects or work involving either inch-pound or SI units. Within the text, the inch-pound units are given preference followed by SI units shown within parentheses.

635S.2 Submittals

The submittal requirements for this specification item shall include:

- A. The Dry Riprap submittal shall include:
 - 1. Type, size and source of rock,
 - 2. Filter fabric, and
 - 3. Construction details.

- B. Re-vegetation program, including:
 - 1. Identification of the type, source, mixture, pure live seed (PLS) and rate of application of the seeding,
 - 2. Type of mulch,
 - 3. Type of tacking agent, and
 - 4. Type and rate of application of fertilizer.

635S.3 Materials

- A. Riprap
Riprap for stabilization shall conform to Dry Riprap, Item No. 591S, "Riprap for Slope Protection".

- B. Seeding
Seeding shall conform to Item No. 604S, "Seeding for Erosion Control".

635S.4 Construction Methods

All trees, brush, stumps, obstructions and other objectionable material shall be removed and disposed of in a manner that will not interfere with the excavation and construction of the dike as indicated on the Drawings and Standard Detail No. 635S-1, "Perimeter Dike". The dike shall not drain onto the public right of way.

All perimeter dikes shall be machine compacted to the extent necessary to provide not less than 95 percent density conforming to TxDOT Test Method Tex-114-E and shall have

positive drainage to an outlet. Diverted runoff from a protected or stabilized upland area shall flow directly onto an undisturbed stabilized area or into a level spreader (Standard Specification Item No. 634S) or grade stabilization structure (Standard Specification Item No. 625S).

Diverted runoff from a disturbed or exposed upland area shall be conveyed to a sediment-trapping device such as sediment trap, a sediment basin or to an area protected by any of these practices (Environmental Criteria Manual Section 1.4.0). Unless otherwise indicated on the Drawings, stabilization shall conform to Item No. 591S, "Riprap for Slope Protection" and/or Item No. 627S, "Grass-Lined Swale and Grass-Lined Swale with Stone Center". Riprap, when used, shall be placed in a uniform layer embedded in the soil.

The structure shall be inspected monthly and after each rainfall. Repairs shall be made by the Contractor, as needed, throughout the duration of this contract or until the Engineer or designated representative provides written permission to remove the structure.

635S.5 Measurement

Acceptable work performed as prescribed by this item will be measured by the lineal foot (lineal meter: 1 lineal meter equals 3.281 lineal feet) along the centerline of the 2-foot (0.6 meter) minimum top width.

635S.6 Payment

The work performed and materials furnished and measured as provided under "Measurement" will be paid for at the unit bid price per lineal foot of "Perimeter Dike". The price shall include full compensation for furnishing, hauling and placing all materials, labor, tools, equipment and incidentals necessary to complete the work including inspecting, repairing, replacing and relocating any existing fencing, removal of silt and removal and disposal of all materials at the completion of construction in and re-vegetation of disturbed areas.

Payment will be made under:

Pay Item No. 635S: Perimeter Dike -

Per Lineal Foot.

End

<i>SPECIFIC</i> CROSS REFERENCE MATERIALS
Specification 635S, "Perimeter Dike"

City of Austin Standard Details

<u>Designation</u>	<u>Description</u>
Number 635S-1	Perimeter Dike

City of Austin Standard Specifications

<u>Designation</u>	<u>Description</u>
Item No. 591S	Riprap for Slope Protection
Item No. 604S	Seeding for Erosion Control
Item No. 625S	Grade Stabilization Structure
Item No. 627S	Grass-Lined Swale and Grass-Lined Swale with Stone Center
Item No. 634S	Level Spreader

City of Austin Environmental Criteria Manual

<u>Designation</u>	<u>Description</u>
Section 1.4.0	Erosion and Sedimentation Control

Texas Department of Transportation: Manual of Testing Procedures

<u>Designation</u>	<u>Description</u>
Test Method Tex-114-E	Laboratory Compaction Characteristics And Moisture-Density Relationship of Subgrade and Embankment Soils

<i>RELATED CROSS REFERENCE MATERIALS - Continued</i>
Specification 635S, "Perimeter Dike"

City of Austin Standard Specifications

<u>Designation</u>	<u>Description</u>
Item No. 101S	Preparing Right of Way
Item No. 102S	Clearing and Grubbing
Item No. 111S	Excavation
Item No. 120S	Channel Excavation
Item No. 602S	Sodding for Erosion Control
Item No. 606S	Fertilizer
Item No. 608S	Planting
Item No. 610S	Preservation of Trees and Other Vegetation
Item No. 622S	Diversion Dike (DD)
Item No. 630S	Interceptor Dike (ID)
Item No. 636S	Perimeter Swale (PS)

Texas Department of Transportation: Standard Specifications for Construction and Maintenance of Highways, Streets, and Bridges

<u>Designation</u>	<u>Description</u>
Item No. 100	Preparing Right of Way
Item No. 110	Excavation
Item No. 132	Embankment
Item No. 158	Specialized Excavation Work
Item No. 166	Fertilizer
Item No. 168	Vegetative Watering
Item No. 169	Soil Retention Blanket
Item No. 204	Sprinkling