

Item No. 630S
Interceptor Dike

630S.1 Description

This item shall consist of a temporary ridge of compacted soil, located across disturbed areas or rights of way. The purpose of an interceptor dike is to shorten the length of exposed slopes, thereby reducing the potential for erosion, by intercepting storm runoff and diverting it to a stabilized outlet or sediment trapping device. The removal of the entire structure and re-vegetation of the area are also included in this item.

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.

630S.2 Submittals

The submittal requirements for this specification item shall include:

- A. Characteristics (LL, PI, maximum density, etc.) of proposed embankment material;
- B. Identification of the type, source, mixture, pure live seed (PLS) and rate of application of the seeding;
- C. Type, chemical analysis and rate of application of fertilizer;
- D. The sprinkling plan including application rate, pattern of sprinkling and scheduled times of application.

630S.3 Materials

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

630S.4 Construction Methods

Interceptor dikes are constructed across disturbed rights of way such as for utility lines and streets or disturbed areas such as graded parking lots or landfills. The dikes shall remain in place until the disturbed areas are permanently stabilized.

All trees, brush, stumps, obstructions and other objectionable material shall be removed and disposed in such a manner that will not interfere with the excavation and construction of the dike as indicated on the Drawings and/or Standard Detail Number 630S-1, "Interceptor Dike". The dike shall not drain onto the public right of way.

Interceptor Dikes will be constructed in the following method:

- A. Dikes shall be machine compacted.
- B. Diversion dikes shall have positive drainage to an outlet.
- C. Top width may be wider and side slopes may be flatter than the slopes indicated on the Drawings or Standard Detail to facilitate crossing by construction traffic.
- D. Field location may be adjusted as needed to utilize a stabilized safe outlet.

Interceptor Dikes shall have an outlet that functions with a minimum of erosion. Runoff shall be conveyed to a sediment-trapping device, such as a sediment trap or a sediment basin, when either the Interceptor Dike channel or the drainage area above the dike are not adequately stabilized.

Unless otherwise indicated on the Drawings, stabilization shall conform to Item No. 591S, "Riprap for Slope Protection" and/or Item No. 627S, "Grass-Lined Swales and Grass-Lined Swales with Stone Center". Riprap, when used, shall be placed in a 3-inch (75 mm) thick layer and embedded into the soil as indicated on the Drawings.

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

630S.5 Measurement

Acceptable work performed as prescribed by this item will be measured by the lineal foot along the 2-foot (0.6 meter) minimum top width, complete in place.

630S.6 Payment

The work performed and material furnished for this item as provided under "Measurement" will be paid for at the unit bid price per lineal foot. The Unit Bid Price shall include full compensation for (a) furnishing, hauling and placing all materials including all labor, tools, equipment and incidentals needed to complete the work, (b) maintaining the dike, removing any silt accumulations; (c) removing, regrading and disposing of all materials when the dike is no longer required and (d) re-vegetating the site upon removal of the dike.

Payment will be made under:

Pay Item No. 630S: Interceptor Dike Per Lineal Foot.

End

<u>SPECIFIC CROSS REFERENCE MATERIALS</u>	
Specification Item 630S "Interceptor Dike"	

City of Austin Standard Specifications

<u>Designation</u>	<u>Description</u>
Item No. 606S	Fertilizer
Item No. 627S	Grass-Lined Swales and Grass-Lined Swales with Stone Center

City of Austin Standard Details

<u>Designation</u>	<u>Description</u>
No. 630S-1	Interceptor Dike

<u>RELATED</u> CROSS REFERENCE MATERIALS
Specification Item 630S "Interceptor Dike"

City of Austin Land Development Code

<u>Designation</u>	<u>Description</u>
Chapter 25	Drainage
Section 25-7-61	Criteria for Approval of Plats, Construction Plans, And Site Plans
Section 25-7-61 (A) (4)	"temporary and permanent measures to control erosion...."
Section 25-7-65	Fiscal Security
Article 5	Erosion and Sedimentation Control; Overland Flow
Section 25-8-181	Erosion and Sedimentation Control
Section 25-8-182	Development Completion
Section 25-8-183	Modification of Erosion Control and Construction Sequencing Plans
Section 25-8-323	Temporary Storage Areas; Topsoil Protection
Section 25-8-341 (B)	"A cut must be restored and stabilized"
Section 25-8-342 (B)	"A fill must be restored and stabilized"

City of Austin Environmental Criteria Manual

<u>Designation</u>	<u>Description</u>
Section 1.4.0	Erosion and Sedimentation Control Criteria
Section 1.4.1	Introduction
Section 1.4.1.2	Project Management
Section 1.4.3	Permanent Structural Practices
Section 1.4.3.A	Diversion

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. 132S	Embankment
Item No. 201S	Subgrade Preparation
Item No. 601S	Salvaging and Placing Topsoil
Item No. 605S	Soil Retention Blanket
Item No. 607S	Slope Stabilization
Item No. 621S	Diversion (Temporary)

City of Austin Standards (Details)

<u>Standard No.</u>	<u>Description</u>
No. 627S-1	Grass Lined Swale
No. 627S-2	Grass Lined Swale W/ Stone Center
No. 633S-1	Landgrading

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. 160	Furnishing and Placing Topsoil
Item No. 164	Seeding for Erosion Control
Item No. 166	Fertilizer
Item No. 168	Vegetative Watering