

SECTION 02630
STABILIZED SHOULDERS

02630.01 GENERAL

A. Description

Stabilized shoulders shall include, but not necessarily be limited to, the construction of stabilized shoulders consisting of a surface course, with or without base course(s), placed on a prepared foundation in accordance with the Contract Documents.

B. Related Work Included Elsewhere

1. Underdrains; Section 02510.
2. Subgrade preparation; Section 02610.
3. Chemically treated subgrade; Section 02611.
4. Aggregate base and subbase courses; Section 02621.
5. Stabilized aggregate base course; Section 02622.
6. Soil cement base course; Section 02623.

C. Quality Assurance

1. Materials

The Engineer will inspect all materials and work to ensure compliance with the Contract Documents.

2. Thickness Tolerances

The shoulder depth shall be checked for proper thickness by means of test holes or cores at intervals of not more than 1000 linear feet measured along the edge of the pavement.

3. Cross Slope Tolerances

The cross slope of the completed shoulder shall be as shown on the Plans with the tolerances noted in the pertinent construction specification for the material.

The Engineer may require the Contractor to provide a shoulder template designed to indicate the proper pitch or slope of shoulder surfaces for the full width. When the shoulder template is required, the finished shoulder shall be checked at intervals determined by the Engineer.

D. Submittals

Submittals for stabilized shoulder materials shall be as specified in the various material sections specified herein.

02630.02 MATERIALS

A. Materials Furnished by the County

1. The County will not furnish any materials for stabilized shoulders.
2. The Contractor may obtain water from the County's potable water system for construction of stabilized shoulders. The Contractor shall contact the Bureau of Utilities, Meter Section, for requirements.

B. Contractor's Options

The Contractor may furnish materials allowed in the various materials sections referenced herein.

C. Detailed Material Requirements

1. Underdrains
Underdrain materials shall be as specified in Section 02510.02.
2. Aggregate
3. Aggregate shall meet the requirements of AASHTO M 43, size Numbers 7 and 8. Gradation shall be as indicated in Table 02630-1.

TABLE 02630-1

Sieve Sizes U. S. Standard	Mass Percent Passing	
	AASHTO M 43	
	<u>No. 7</u>	<u>No. 8</u>
3/4 inch	100	-
1/2 inch	90-100	100
3/8 inch	40-70	85-100
No. 4	0-15	10-30
No. 8	0-5	0-10
No. 16	-	0-5

02630.03 EXECUTION**A. Time Restrictions**

Shoulders shall be placed and compacted as soon as possible after the roadway surfacing item is complete. In the case of resurfacing or stage construction where traffic is being maintained, shoulder work shall be completed within 48 hours after completion of the surface course for the particular lane which has been placed.

B. Underdrains

Underdrains shall be installed in accordance with Sections 02510.03 and 02610.03 when directed by the Engineer.

C. Density Requirements

Materials shall be placed in a completed trench section and finished in accordance with the specifications for the pertinent section involved; however, the required density shall not be less than 95% of the theoretical density obtained by the specified test method designated for the section which covers the material involved.

D. Combining Courses

The Engineer has the option of having bottom and next above similar course of the shoulder constructed as a single composite depth course provided there is compliance with density and compaction requirements.

E. Surface Treatment

Number 7 and Number 8 aggregates, Table 02630-1, will be required for cover of the first and second seals respectively when a double surface treatment is specified in the Contract Documents.

1. Treatment of Impervious Surfaces

When a surface treatment is specified for contrast on relatively impervious surface, Number 8 aggregate, Table 02630-1, will be required.

02630.04 METHOD OF MEASUREMENT

Measurement for stabilized shoulders will be made of each item involved in shoulder construction based on the method of measurement for the pertinent item, complete in place. Where area or volume is involved, measurement for length will be parallel to the finished grade of the road and along the nearest edge of the pavement. Measurement for width will be the dimension shown on the Plans.

02630.05 BASIS OF PAYMENT

A. General

Payment will be made at the unit and/or lump sum prices bid. The prices bid shall include furnishing all labor, tools, equipment, and materials necessary to complete the work shown and specified, in strict accordance with the Contract Documents, and accepted by the Engineer.

B. Stabilized Shoulders

Payment for stabilized shoulders will be made at the price for each item of work involved for stabilized shoulders, complete in place.