

**SECTION 290
GRANULAR SUBBASE**

290-1 Description.

Construct a granular subbase as a component of an Optional Base.

290-2 Materials.

Select one of the materials listed below and conform to the following requirements:

Limerock.....	Section 911
Cemented Coquina.....	Section 915
Bank Run Shell.....	Section 913
Shell Rock.....	Section 913A
Graded Aggregate.....	204-2

290-3 Construction Methods.

For the subbase material selected, construct the subbase in conformance with the following:

Limerock	Section 200
Cemented Coquina	Section 204
Bank Run Shell	Section 250
Shell Rock	Section 250
Graded Aggregate	Section 204

Straightedge and hard-planing provisions will not apply. Compact the subbase to an average of not less than 98% of the maximum density as determined under FM 5-521. The minimum acceptable density at any location within the subbase is 95% of maximum. The highest density used in calculating the average density will be 100% of the maximum.

Priming is not required.

290-4 Thickness Requirements.

290-4.1 General: Do not substitute granular subbase materials in excess of the tolerance specified for the asphalt portion of the Optional Base.

290-4.2 Measurements: When the Department is ready to measure the finished subbase, provide the coring equipment and the operator and include this in the unit price for Optional Base. The Engineer will select the coring locations and make the acceptance measurements. Thickness measurements will be taken through 3 inch [75 mm] diameter holes. For subbase areas greater than 1,000 yd² [840 m²], the minimum frequency of measurement will be one per 200 feet [60 meters] of roadway. For smaller subbase areas, the minimum frequency of measurement will be one per 500 yd² [420 m²] of subbase.

290-4.3 Maximum Allowable Thickness: The maximum allowable thickness of the subbase is 4 1/4 inches [105 mm]. Remove and replace areas of subbase exceeding the maximum allowable thickness.

290-4.4 Minimum Allowable Thickness: The minimum allowable thickness of the subbase is 3 1/2 inches [90 mm]. Remove and replace areas not meeting the minimum allowable thickness. If authorized by the Engineer, additional asphalt may be substituted to achieve the full combined Optional Base thickness.