

SECTION 305

GRADED AGGREGATE BASE

Amend Section 305 GRADED AGGREGATE BASE to include the following:

Sampling of Graded Aggregate Base Material: This specification establishes procedures for sampling of graded aggregate base materials as defined in Section 305 of the Standard Specifications and other supplemental specifications and special provisions as applicable. The procedures contained herein apply when the base material will be paid for a square yard basis and supersedes references to sampling, measurement and payment in previous versions of this specification that conflict with this document.

Each 24'x1000' (or equivalent area if width varies from 24') section of base or fraction thereof will be considered a lot for acceptance and payment purposes. When the base is ready for sampling (after mixing, shaping and correction of any visibly segregated areas, but prior to initial compaction), notify the South Carolina Department of Transportation (SCDOT) certified earthwork and base inspector. The SCDOT inspector will use SC-T-100 to determine 3 random sampling locations along the length of that lot. Only the longitudinal coordinate of the sample will be determined by SC-T-100 since the sample will be taken from three places across the roadway as described below. The first sampling location determined will be considered the acceptance sample for that lot. The remaining 2 samples will be the check samples for that lot.

Provide an SCDOT-certified earthwork and base technician to obtain samples according to SC-T-1 at the locations determined by the SCDOT inspector. The SCDOT inspector will observe the technician obtaining all samples. Obtain the samples by taking 3 portions for the full depth of the layer, one from near the centerline and one approximately 2 feet from either edge and mixing together to comprise one sample. Take care to avoid sampling from edges or joints where segregation can occur. The SCDOT inspector will take possession of all samples immediately upon completion of sampling. Only samples taken under the direct observation of the SCDOT inspector are acceptable.

Do not initiate compaction of the graded aggregate base material in a particular lot until all required sampling for that lot is completed. Samples obtained after compaction has been initiated will be considered invalid for acceptance or check sample purposes. Once the material has been initially sampled, no changes to the composition of the material will be considered in determining specification compliance of the gradation of the material and compaction of that lot may proceed at the risk of the gradation testing resulting in a removal and replacement outcome.

Within 3 business days of the date of sampling, the SCDOT inspector will submit the acceptance samples to the Office of Materials and Research (OMR) for testing. The check samples will be stored by the Resident Construction Engineer (RCE) until the acceptance sample testing has been completed. If the acceptance sample does not comply with applicable specifications, the check samples for that lot

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will be submitted to the OMR for testing. If the acceptance sample does comply with applicable specifications, the check samples for that lot may be discarded.

If the acceptance sample complies with the specifications, payment for that lot of graded aggregate base material based on gradation will be 100% of the contract unit price per square yard. If the acceptance sample does not comply with the specifications, the check samples will be tested. If both check samples for that lot comply with the specifications, payment for that lot based on gradation will be 100% of the contract unit price per square yard. If one or both check samples do not comply with the specifications, then the total absolute deviation from the specifications for all sieve sizes of the acceptance and the check samples will be determined. A price reduction for the contract unit price per square yard will be applied to the unit price for that lot based on the total absolute deviation from the specifications according to the following chart:

Price Reduction for Total Absolute Deviation from Specifications	
Combined Range from Specifications	Reduction in Unit Price per Square Yard
2-9	5%
10-21	10%
22-36	25%
37-51	50%
52+	Remove and Replace

Example:

Sieve	Acceptance Sample	Check Sample 1	Check Sample 2
2 inch	100	100	100
1 ½ inch	99	98	98
1 inch	95	91	94
½ inch	74	72	72
No. 4	57	56	55
No. 30	35 (X+5)	35 (X+5)	32 (X+2)
NO. 200	8	8	8

The total deviation from specifications for this set of samples is 12 (5+5+2). This example would result in a 10% price reduction for the square yards in that particular lot.