

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
MATERIALS CONTROL, SOILS AND TESTING DIVISION

MATERIALS PROCEDURE

PROCEDURE FOR DETERMINING A REDUCED UNIT PRICE TO BE PAID FOR SELECT
MATERIAL FOR BACKFILLING WHICH DOES NOT CONFORM TO GRADING
REQUIREMENTS OF GOVERNING SPECIFICATIONS

1. PURPOSE

- 1.1 To define a range of nonconformance in the grading of aggregates used for Select Material for backfilling which would require a special investigation (DMIR) of the aggregate or its removal from the project and provide a procedure for reducing the price to be paid for said aggregate. When more than one sample is taken in succession, this procedure is applicable to MP 300.00.51: "Procedural Guidelines for Maintaining Control Charts". In some cases, however, because of the nature of the item, only one sample is taken. In this regard a control chart may not be necessary, and conformance will be based on the results of the single sample.
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2. SCOPE

- 2.1 This procedure shall apply only to those aggregates specified for use as Select Material for Backfilling.
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3. REFERENCED DOCUMENTS

- 3.1 MP: 300.00.51 – Procedural Guidelines for Maintaining Control Charts
3.2 Section 212 of the Specifications
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4. DEFINITION OF TERMS

- 4.1 LOT - The quantity of material represented by an average test value.
4.2 Sublot - The quantity of material represented by a single test value.
4.3 In those cases where only one sample is taken to represent the total quantity the sublot and LOT will be considered the same.
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**5. DESIGNATION OF QUANTITIES FOR EQUITABLE PRICE
ADJUSTMENT**

- 5.1 When an average gradation test value, or three individual test values, fall outside the limits of the Specifications, the LOT of material represented thereby is considered to be nonconforming to the extent that the last of its sublots is nonconforming. When a lot of material is nonconforming, then the last sublot contained therein shall have its price adjusted in accordance with Table 212.12.1 of the Specifications.

In no event, however, shall a subplot of material have its price adjusted more than once, and the first adjustment which is determined shall apply.

- 5.2 When only one sample is taken to represent the total quantity of material used, and any sieve value falls outside the limits of the specification, the material represented thereby is considered to be nonconforming. This material shall have its price adjusted in accordance with Table 212.12.1 in the Specifications.

6. DEGREE OF NONCONFORMANCE

- 6.1 When a subplot of material is to have its price adjusted, the percentage point difference between the nonconforming test value and the specification limit shall be determined for each sieve determined to be nonconforming (nonconforming as described in 5.1 above), and this value shall be compared to Table 212.12.1. The total measure of the degree of nonconformance is, therefore, the sum of nonconformance on the two sieve sizes of the subplot.

7. DETERMINATION OF EQUITABLE ADJUSTMENT

- 7.1 When the degree of nonconformance requires a DMIR , it shall be performed within 14 calendar days.

8. METHOD OF ACCOUNTING AND CHANGE ORDER PREPARATION

- 8.1 Equitable reductions for nonconformance will be determined, for each lot or subplot. These adjustments may be processed with a single change order when the item is complete by tabulating the data for all nonconforming sublots and preparing the change order for the total dollar adjustment shown on the tabulation. A copy of the tabulation should accompany and be made part of the change order.
- 8.2 Dollar reduction shall be calculated by (A) quantity $\times$ (B) % reduction from Table 212.12.1 $\times$ (C) unit contract price. (A sample tabulation sheet is attached).

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Equitable Reduction Procedure

TABULATION OF EQUITABLE REDUCTIONS (partial, Imperial Units)

Sublot Identity (Note 1)	Quantity (A)	Degree of Nonconformance	Price Reduction (B)	Unit Contract Price (C)	Dollar Reduction From Contract (A)×(B)×(C)
	800 FT ³	7.5	7%	3.50	196.00
	200 FT ³	2.6	2%	3.50	14.00
	500 FT ³	5.0	4%	3.50	<u>70.00</u>

Subtotal (1) ^(Note 2) \$280.00

	1000 FT ³	1.2	2%	3.50	70.00
	1000 FT ³	11.7	11%	3.50	<u>385.00</u>

Subtotal (2) ^(Note 2) \$455.00

Total Reduction ^(Note 3) \$735.00

Note 1: Station numbers may also be used to identify sublots.

Note 2: These subtotals should be made at the end of contract pay periods, and the subtotal amounts deducted from contract payments on a current basis.

Note 3: This total reduction should be processed in one change order when the construction of the item is complete.