

## **AMENDMENT TO OPSS 1004, NOVEMBER 2012**

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Special Provision No. 110S16

November 2022

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### **1004.02 REFERENCES**

Section 1004.02 of OPSS 1004 is amended by additions of the following publications:

#### **Ontario Ministry of Transportation Publications**

Designated Sources for Materials (DSM)  
DSM #3.05.25 Aggregates: Surface Friction Courses

### **1004.05 MATERIALS**

#### **1004.05.05 Gabion Stone, Rip-Rap and Rock Protection**

The last paragraph of Subsection 1004.05.05 of OPSS 1004 is deleted in its entirety and replaced by the following:

Gabion stone, rip-rap and rock protection shall meet the physical property requirements shown in Table 7 unless one of the following apply:

- a) it is from a source on the ministry's DSM list; or
- b) Acceptance by the Owner based on a written request for consideration containing the following:
  - i. Prior test results demonstrating that the physical requirements are according to? Table 7.
  - ii. The testing has been done within 12 months of the material being used in the Work.
  - iii. Field performance has continually been satisfactory.

Gabion stone, rip-rap and rock protection shall meet the gradation requirements shown in Table 8.

### **1004.08 QUALITY ASSURANCE**

#### **1004.08.02 Sampling**

Subsection 1004.08.02 of OPSS 1004 is deleted in its entirety and replaced by the following:

Sampling shall be according to LS-625 and taken at the time and location determined by the Contract Administrator. Samples shall be of sufficient mass to conduct the necessary gradation and physical property tests of the material. Minimum sample sizes for most aggregate types shall be according to Table 14.

Unless specified in the Contract Documents, all samples shall be taken from materials delivered to the Working Area. Each sample shall be treated as a discrete sample and not combined or blended with any other sample. When material contains blended or reclaimed aggregates or both, sampling shall be performed on the final blended product.

Duplicate samples shall be obtained for each aggregate used in the Work.

New or clean sample containers shall be provided for sampling by the Contractor. Containers shall be constructed to prevent the loss of any part of the material or contamination or damage to the contents during shipment. Metal or cardboard containers are unacceptable. Sample bags shall be provided by the Owner.

Samples shall be identified both inside and outside of the sample container. The Contract Administrator shall seal each sample container at the time and place of sampling. Data to be included with samples shall be according to the requirements of MTO Form PH-D-10, Aggregate Sample Data Sheet.

Subsection 1004.08.03 of OPSS 1004 is deleted in its entirety and replaced by following:

**1004.08.03            Testing and Retention of Samples**

**1004.08.03.01        General**

When the Contract Administrator has elected to carry out QA testing, one of the duplicate samples shall be randomly selected for testing by the QA laboratory. The QA laboratory shall retain the remaining sealed sample for possible referee testing, if required.

**1004.08.03.02        Winter Sand**

Following delivery, winter sand shall be subject to a visual inspection of the stockpile to determine the presence of oversize material. Oversize particles may be confirmed with a 9.5 mm sieve.

**1004.08.03.03        Gabion Stone, Rip-Rap and Rock Protection,**

Unless specified in the Contract Documents, the laboratory designated by the Owner shall carry out QA testing of physical properties according to Table 7.

The Contract Administrator shall carry out the QA testing at the Working Area for gradation requirements according to Table 8.

Subsection 1004.08.05 of OPSS 1004 is deleted in its entirety and replaced by the following:

**1004.08.05            Referee Testing**

**1004.08.05.01        General**

The Contractor may invoke referee testing for one or more attributes by submitting a written request to the Contract Administrator, within 5 Business Days following notification that the aggregate does not meet the requirements of this specification.

Referee testing shall be carried out, as specified herein and elsewhere in the Contract Documents.

The retained duplicate sample(s) shall be used for each attribute referee testing that is invoked.

All referee test results for a lot shall replace the respective QA tests for acceptance of the applicable lot and shall be binding on both the Owner and the Contractor.

If a lot is not accepted at full payment based on the referee test results, then the Contractor shall be responsible for the cost of the referee testing of that lot, including the cost of transporting the samples to the referee laboratory, at the rates specified elsewhere in the Contract Documents. In all other cases, the Owner shall bear the cost of the referee testing and the cost of transporting the samples of that lot.

**1004.08.05.02 Gabion Stone, Rip-Rap and Rock Protection**

Upon receiving the Contractor’s written request, the Contract Administrator may elect to carry out the referee testing directly after the QA testing.

The Contract Administrator shall carry out the referee testing for gradation requirements on 20 stone particles randomly-chosen by the Contract Administrator at the Working Area according to Table 8.

Tables 2, 3 and 4 of OPSS 1004 are deleted in their entirety and replaced by the following:

**TABLE 2  
Gradation Requirements for Clear Stone**

Sieve Size	Gradation (LS-602), Percent Passing					
	Nominal Maximum Size					
	53 mm	19 mm		16 mm	13.2 mm	9.5 mm
Type I		Type II				
63 mm	100	-	-	-	-	-
53 mm	90 - 100	-	-	-	-	-
26.5 mm	-	100	100	-	-	-
19.0 mm	0 - 15	85 - 100	90 - 100	100	-	-
16.0 mm	-	-	65 - 90	96 - 100	100	-
13.2 mm	-	-	-	67 - 86	96 - 100	100
9.5 mm	-	0 - 55	20 - 55	29 - 52	50 - 73	95 - 100
6.7 mm	-	-	-	-	-	20 - 45
4.75 mm	-	0 - 10	0 - 10	0 - 10	0 - 10	0 - 10
75 µm	0 - 2.0	0 - 2.0	0 - 2.0	0 - 2.0	0 - 2.0	0 - 2.0

**TABLE 3  
Physical Property Requirements for Granular Sheeting**

MTO Laboratory Test	MTO Test Number	Requirement
Percent Crushed Particles, % minimum	LS-607	60
Petrographic Requirement, Fine Aggregate, Part A	LS-616	(Note 1)
Micro-Deval Abrasion, Coarse Aggregate, % maximum loss (Note 2)	LS-618	30
Micro-Deval Abrasion, Fine Aggregate, % maximum loss	LS-619	35
Plastic Fines	LS-631	NP
<p>Notes:</p> <p>1. For materials north of the French/Mattawa Rivers only: For materials with &gt; 4.0% passing the 75 µm sieve, the amount of mica passing the 150 µm sieve and retained on the 75 µm sieve shall not exceed 10% of the material on that sieve. Prior data demonstrating compliance with this requirement shall be acceptable provided that such testing has been done within the past 5 years and the Contractor can show to the satisfaction of the Owner that field performance has continued to be acceptable.</p> <p>2. The requirement for the coarse aggregate Micro-Deval abrasion loss test shall be waived if the material has more than 80% passing the 4.75 mm sieve.</p>		

**TABLE 4  
Gradation Requirements for Granular Sheeting**

Sieve Size	Gradation (LS-602), Percent Passing
150 mm	100
63 mm	-
37.5 mm	57 - 100
26.5 mm	50 - 90
13.2 mm	35 - 65
4.75 mm	20 - 40
1.18 mm	10 - 23
300 µm	5 - 13
150 µm	0 - 10
75 µm	0 - 8

WARRANT: Always with OPSS 1004, Material Specification for Aggregates - Miscellaneous.