

WISCONSIN CONSTRUCTION SPECIFICATION

11. Small Rock Aggregate (Non-Concrete)

1. SCOPE

The work shall consist of furnishing, transporting, and placing small rock aggregate, where specified, in the construction of stream crossings, access roads, heavy use area protection, and other similar structures.

2. MATERIALS

The small rock aggregate material shall be virgin, clean, hard, and durable particles free from organic matter or other deleterious substances that would interfere with free-draining properties. No reclaimed concrete or asphalt is allowed.

Rock for equipment or cattle stream crossings, access roads, heavy use area protection, or similar minor structures need not be tested.

3. DEFINITIONS

- Virgin materials – mineral materials in a native or raw form, not previously used.
- Sand and fine gravel – a mixture of sand and gravel granular material with 100% passing ½-inch sieve and 5% maximum passing the #200 sieve.
- Fine aggregate – 100% passing ¾-inch sieve and 10% maximum passing the #200 sieve.
- Crushed stone – 100% passing ¾-inch sieve and 10% maximum passing the #200 sieve.
- Graded rock – 100% passing the base course thickness dimension and a maximum of 10% passing the ¾-inch sieve. All sizes between the limits shown on the drawings are to be represented.
- Breaker run: aggregate resulting from the mechanical crushing of quarried stone not screened or processed after primary crushing and 10% maximum passing the #200 sieve (typically 2 to 5 inches average diameter).

4. GRADATION

The gradation of the aggregate material shall be in accordance with one of the following:

- The gradation of the material shall be as shown on the drawings.
- If the gradation is not shown on the drawings, refer to definitions for graded rock, crushed stone, fine aggregate, and sand and fine gravel.

5. SUBGRADE PREPARATION

Required excavations shall be accomplished as shown on the drawings and in accordance with Wisconsin Construction Specification 2, Excavation.

Foundation surfaces shall be clean and free of organic matter, loose soil, and foreign substances when aggregate is placed.

Aggregate shall not be placed on the subgrade until it has been inspected and approved by the Technician.

6. PLACEMENT

The aggregate shall be placed in a manner to avoid segregation of particle sizes. No foreign materials will be allowed to become intermixed with or otherwise contaminate the material.

Any damage to the foundation surface occurring during placement of aggregate material shall be repaired before proceeding with the work.

Aggregate shall be placed in uniform layers not more than 12 inches in thickness and machine worked, to the depths specified on the drawings, so as to create a dense aggregate layer.

7. COMPACTION

Unless otherwise stated on the drawings, no compaction will be required beyond that resulting from the placing, spreading, and consolidating operations.

Compaction, when required, shall meet the requirements specified in Wisconsin Construction Specification 3, Earthfill, Table 1, Equipment Compaction Requirements.