

**Construction Specification
008 Drainfill**

SCOPE

The work shall consist of furnishing and placing the required drainfill as shown on the drawings.

MATERIALS

Drainfill materials shall be sand, gravel, crushed stone, or mixtures thereof. The material shall be clean, hard, durable particles free from organic matter or other deleterious substances that would interfere with free-draining properties.

GRADATION

The gradation of the drainfill shall be in accordance with the following:

- The gradation of the material shall be as shown on the drawings.
- If the gradation is not shown on the drawings, the material shall be a reasonably well graded sand-gravel mixture with 50 to 85 percent passing a No. 4 sieve. The maximum size of the material shall be 3 inches. No more than 5 percent by weight shall pass a No. 200 sieve.
- Unless otherwise specified, not more than 5 percent by weight of the material finer than a No. 4 sieve shall be crushed limestone or dolomite.

BASE PREPARATION

Drainfill shall not be placed on the subgrade or over a pipe or drain tile until they have been inspected and approved by the Technician.

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

Foundation surfaces and trenches shall be clean and free of organic matter, loose soil, foreign substances, and standing water when the drainfill is placed. Earth surfaces upon or against which drainfill will be placed shall not be scarified.

PLACEMENT

Drainfill shall be placed in uniform layers not more than 12 inches in thickness. When compaction is required and accomplished by manually controlled equipment, the layers shall be a maximum of 8 inches thick prior to compaction or as shown on the drawings. The drainfill 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 or to the sides or bottoms of trenches occurring during placement of drainfill material shall be repaired before proceeding with the work. The upper surface of drains constructed concurrently with adjacent zones of earthfill shall be maintained at or above the surface of the adjacent fill.

Drainfill placed over or around conduits shall be placed in a manner to avoid any displacement in line or grade of the pipe. The maximum fill height on the conduit shall be as shown on the drawings or in accordance with the manufacturer's recommendations.

Drainfill shall not be placed adjacent to concrete structures until the concrete has cured for a minimum of 7 days.

COMPACTION

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

When compaction is required, the methods stated in Wisconsin Construction Specification 3, Earthfill, shall be adhered to. The drainfill material shall be thoroughly wetted prior to equipment or manually controlled compaction.

Specific Site Requirements