

MDE Stormwater Management Pond
Minimum Design Criteria 6 & 7

- 6) **Material and construction specifications for the embankment shall be in accordance with MD-378 code except that fill material for the embankment shall conform to Unified Soil Classification GC, SC, SM, MH, ML, CH or CL and no cutoff trench is required.**

Compaction specifications and inspections are a requirement in the dam/embankment area along with “best available material ML minimum” certified by the geotechnical engineer.

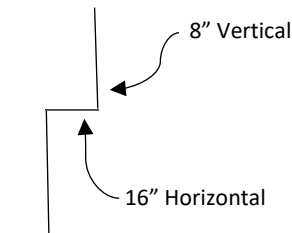
Carroll County Embankment Material and Construction Specification

Compaction

The movement of the hauling and spreading equipment over the fill shall be controlled so that the entire surface of each lift shall be traversed by not less than one tread track of heavy equipment or compaction shall be achieved by a minimum of four complete passes of a sheepsfoot, rubber tired, or vibratory roller. Fill material shall contain sufficient moisture such that the required degree of compaction will be obtained with the equipment used. The fill material shall contain sufficient moisture so that if formed into a ball it will not crumble, yet not be so wet that water can be squeezed out.

The minimum required density shall not be less than 95% of maximum dry density with a moisture content within plus or minus 2% of the optimum. Each layer of fill shall be compacted as necessary to obtain that density and is to be certified by the engineer at the time of construction. All compaction is to be determined by AASHTO Method T-99 (Standard Proctor).

Material
Embankment fill material shall conform to Unified Soil Classification GC, SC, SM, MH, ML, CH, or CL. Use best available material onsite (ML minimum) as approved by the geotechnical engineer.



COMPACTION DETAIL
NOT TO SCALE

- 7) **Woody vegetation is prohibited on the embankment.**

This is covered in the maintenance schedules.

Note: This does not include a buffer area as is required for MD-378 ponds.

Martin B. Covington, III, P.E., CFM, D.WRE
Carroll County Stormwater Management Program Engineer
January 2022