**Vermont’s Municipal Roads General Permit (MRGP) Standards Summary**

The MRGP standards apply to all hydrologically connected roads that are controlled by municipalities.

See the [VT Better Roads Manual](https://vtrans.vermont.gov/sites/aot/files/highway/documents/ltf/Better%20Roads%20Manual%20Final%202019.pdf) for details and specifications.

**Is the road hydrologically connected?**

* Road is parallel to (within 100’) of a water resource.
* Road is crossed by a water resource.
* Road drains to another connected segment.

**MRGP Standards**

* **Minimum 2% Road Crown**
* **Grader Berms Removed**
* **Road Drainage:**
  + Distributed Flow (road shoulder lower than travel lane if no backslope), OR
  + Drainage Ditch:

|  |  |  |  |
| --- | --- | --- | --- |
| Road Segment Slope | Treatment | | |
| 0% - <5% | Grass-lined | | |
| 5% - 8% | Stone-lined  (6” – 8” minus or equivalent required), OR | Grass-lined with stone check dams, OR | Grass-lined with minimum 2 cross culverts or turnouts per segment |
| ≥8% | Stone-lined (6” – 8” minus or equivalent required,  12” minus recommended for road slopes ≥10%) | | |

* **Conveyance Areas and Ditch Outlets:**
  + Distributed Flow (areas with no backslope), OR
  + Stabilized:

|  |  |
| --- | --- |
| Conveyance (End of Ditch) Bank Slope | Treatment |
| 0% - <5% | Grass-lined |
| ≥5% | Stone-lined |

* **Culverts:** All culverts require stone header and outlet stabilization for road slopes >5%

|  |  |  |
| --- | --- | --- |
| Culvert Type | Identifying Characteristics | Culvert Sizing |
| Driveway | Except if intermittent or perennial stream | **15” Minimum** (18” recommended) |
| Drainage | No defined channel below structure | **18” Minimum** |
| Intermittent | Defined channel bed, but may be dry for part of the year | **Active Channel Width**  (see page 2) |
| Perennial | Defined channel and runs year-round (most years) | **Bankfull Width** generally required with DEC Stream Alteration Permit |

* **Class 4 Roads:**  Gully erosion stabilized
* **Outlets from Closed Drainage Systems:** Rill and gully erosion stabilized
* **Seed and mulch, hydroseed and/or stone line any bare soils during construction.**

**Culvert Sizing for Crossings on Intermittent Streams:**

Determine the ACW through field measurements, ***the culvert sizing will meet or exceed the Active Channel Width***. \* To obtain the measurements, go to a typical crossing location and obtain several upstream and downstream Active Channel Width measurements in riffles or straighter sections which are often the narrower channel width locations. \* The selected active channel width for the structure will be a representative average of these field measurements.

**Active Channel Width (ACW)** is defined as the limits of streambed scour on banks formed by prevailing stream discharges, measured perpendicular to streamflow. The active channel width is narrower than the bankfull width (~75%) and is defined by a break in slope on the channel bank, typically seen as the edge of permanent vegetation.

**Standards for Non-Hydrologically Connected Segments**

VT Road and Bridge Standards may apply. Please contact your local [VTrans Maintenance District](https://vtrans.vermont.gov/operations/districts) for more information.

**Questions on the MRGP?**

Contact the Municipal Roads General Permit Coordinator,

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