

**Table 3-1 Runoff Coefficients for Rational Formula**

| <b>Type of Drainage Area</b>     | <b>Runoff Coefficient, C*</b> |
|----------------------------------|-------------------------------|
| Concrete or Asphalt Pavement     | 0.8 – 0.9                     |
| Commercial and Industrial        | 0.7 – 0.9                     |
| Gravel Roadways and Shoulders    | 0.5 – 0.7                     |
| Residential – Urban              | 0.5 – 0.7                     |
| Residential – Suburban           | 0.3 – 0.5                     |
| Undeveloped                      | 0.1 – 0.3                     |
| Berms                            | 0.1 – 0.3                     |
| Agricultural – Cultivated Fields | 0.15 – 0.4                    |
| Agricultural – Pastures          | 0.1 – 0.4                     |
| Agricultural – Forested Areas    | 0.1 – 0.4                     |

For flat slopes or permeable soil, lower values shall be used. For steep slopes or impermeable soil, higher values shall be used. Steep slopes are 2:1 or steeper.

From Michigan State Administrative Rules R 280.9.