|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Design**  **Element** | | **Manual**  **Section** | **Design Speed** | | | | |
| 75 mph | 70 mph | 65 mph | 60 mph | 55 mph |
| \* Stopping Sight Distance **(1)** | | 10.1 | 820′ | 730′ | 645′ | 570′ | 495′ |
| \* Minimum Radii (emax = 8%) | | 11.2.3 | 2215′ | 1820′ | 1485′ | 1205′ | 965′ |
| \* Superelevation Rates | | 11.3 | 8% | 8% | 8% | 8% | 8% |
| \* Horizontal Sight Distance | | 11.4 | 38′ | 36′ | 35′ | 34′ | 32′ |
| \* Vertical Curvature **(2)**  (Minimum K-values) | Crest | 12.5 | 312 | 247 | 193 | 151 | 114 |
| Sag | 206 | 181 | 157 | 137 | 115 |
| \* Maximum Grade **(3)** | Level | 12.3.1 | 3% | 3% | 3% | 3% | 4% |
| Rolling | 4% | 4% | 4% | 4% | 5% |
| Mountainous | N/A | 5% | 5% | 6% | 6% |
| Minimum Grade **(4)** | | 12.3.2 | Desirable: 0.5% Minimum: 0.0% | | | | |