

MINIMUM RADII AND TRANSITION LENGTHS FOR 2% SUPERELEVATION

| RADIUS (METERS) | E (%) | f | DV (Km/h) | LENGTH OF SUPERELEVATION TRANSITION (LS) IN METERS | | | | | | |
|--------------------|----------|-------|--------------|--|-------------------------|-----------------------|-------------------|-----------------------|-----------------------|------------|
| | | | | PAVEMENT WIDTH (W) | | | | | | W > 28.8 m |
| | | | | 7.2 m (1 @ 3.6 m) | 10.8 m (1.5 @ 3.6 m) | 14.4 m (2 @ 3.6 m) | 18 m (3 @ 3 m) | 21.6 m (3 @ 3.3 m) | 28.8 m (3 @ 3.6 m) | |
| > 227 | 2.0 | 0.150 | 70 | 14 | 17 | 20 | 23 | 27 | 30 | * |
| 149 | 2.0 | 0.171 | 60 | 12 | 15 | 18 | 21 | 25 | 27 | * |
| 94 | 2.0 | 0.190 | 50 | 12 | 14 | 17 | 20 | 23 | 25 | * |
| 50 | 2.0 | 0.233 | 40 | 11 | 13 | 16 | 18 | 21 | 24 | * |
| 24 | 2.0 | 0.285 | 30 | 10 | 12 | 15 | 17 | 20 | 22 | * |

* FOR PAVEMENT WIDTHS GREATER THAN 28.8 m USE L_r VALUES DEVELOPED BY THE DESIGN SOFTWARE.

MINIMUM RADII FOR DESIGNS
UTILIZING NORMAL PAVEMENT CROWN

| RADIUS (METERS) | f | NC (Km/h) |
|--------------------|-------|--------------|
| > 297 | 0.150 | 70 |
| 189 | 0.171 | 60 |
| 116 | 0.190 | 50 |
| 60 | 0.233 | 40 |
| 27 | 0.285 | 30 |

SUMMARY OF STD. TC-5.01 ULS (URBAN-LOW SPEED) DESIGN FACTORS

SPECIFICATION
REFERENCE

REV 1/07

802.24A

VIRGINIA DEPARTMENT OF TRANSPORTATION