

| DESIGN FACTORS FOR A DESIGN SPEED OF 30 MPH<br>(URBAN) USING E= 4% MAX. |          |   |    |           |    |         |     |         |     |         |     |         |     |
|---|----------|---|----|-----------|----|---------|-----|---------|-----|---------|-----|---------|-----|
| RADIUS<br>(FEET)  | E<br>(%) | PAVEMENT WIDTH  |    |           |    |         |     |         |     |         |     |         |     |
|   |          | 24 FT   |    | 36 FT     |    | 48 FT   |     | 60 FT   |     | 66 FT   |     | 72 FT   |     |
|   |          | DESIGN SOFTWARE EQUIVALENTS (NUMBER OF LANES AT LANE WIDTH) |    |           |    |         |     |         |     |         |     |         |     |
|   |          | 1 @ 12'   |    | 1.5 @ 12' |    | 2 @ 12' |     | 3 @ 10' |     | 3 @ 11' |     | 3 @ 12' |     |
|   |          | Lt  | Lr | Lt        | Lr | Lt      | Lr  | Lt      | Lr  | Lt      | Lr  | Lt      | Lr  |
| 2830  | NC       | 0   | 0  | 0         | 0  | 0       | 0   | 0       | 0   | 0       | 0   | 0       | 0   |
| 1885  | 2.0      | 37  | 37 | 46        | 46 | 55      | 55  | 61      | 61  | 67      | 67  | 73      | 73  |
| 1734  | 2.1      | 37  | 39 | 46        | 48 | 55      | 58  | 61      | 64  | 67      | 70  | 73      | 77  |
| 1588  | 2.2      | 37  | 40 | 46        | 50 | 55      | 60  | 61      | 67  | 67      | 74  | 73      | 80  |
| 1442  | 2.3      | 37  | 42 | 46        | 53 | 55      | 63  | 61      | 70  | 67      | 77  | 73      | 84  |
| 1282  | 2.4      | 37  | 44 | 46        | 55 | 55      | 66  | 61      | 73  | 67      | 80  | 73      | 88  |
| 1134  | 2.5      | 37  | 46 | 46        | 57 | 55      | 69  | 61      | 76  | 67      | 84  | 73      | 91  |
| 1013  | 2.6      | 37  | 48 | 46        | 60 | 55      | 71  | 61      | 79  | 67      | 87  | 73      | 95  |
| 913   | 2.7      | 37  | 50 | 46        | 62 | 55      | 74  | 61      | 82  | 67      | 90  | 73      | 99  |
| 827   | 2.8      | 37  | 51 | 46        | 64 | 55      | 77  | 61      | 85  | 67      | 94  | 73      | 102 |
| 754   | 2.9      | 37  | 53 | 46        | 66 | 55      | 80  | 61      | 88  | 67      | 97  | 73      | 106 |
| 689   | 3.0      | 37  | 55 | 46        | 69 | 55      | 82  | 61      | 91  | 67      | 100 | 73      | 110 |
| 633   | 3.1      | 37  | 57 | 46        | 71 | 55      | 85  | 61      | 94  | 67      | 104 | 73      | 113 |
| 582   | 3.2      | 37  | 59 | 46        | 73 | 55      | 88  | 61      | 97  | 67      | 107 | 73      | 117 |
| 536   | 3.3      | 37  | 60 | 46        | 75 | 55      | 90  | 61      | 100 | 67      | 110 | 73      | 120 |
| 495   | 3.4      | 37  | 62 | 46        | 78 | 55      | 93  | 61      | 104 | 67      | 114 | 73      | 124 |
| 456   | 3.5      | 37  | 64 | 46        | 80 | 55      | 96  | 61      | 107 | 67      | 117 | 73      | 128 |
| 420   | 3.6      | 37  | 66 | 46        | 82 | 55      | 99  | 61      | 110 | 67      | 120 | 73      | 131 |
| 385   | 3.7      | 37  | 68 | 46        | 85 | 55      | 101 | 61      | 113 | 67      | 124 | 73      | 135 |
| 351   | 3.8      | 37  | 70 | 46        | 87 | 55      | 104 | 61      | 116 | 67      | 127 | 73      | 139 |
| 314   | 3.9      | 37  | 71 | 46        | 89 | 55      | 107 | 61      | 119 | 67      | 130 | 73      | 142 |
| 251   | 4.0      | 37  | 73 | 46        | 91 | 55      | 110 | 61      | 122 | 67      | 134 | 73      | 146 |

NOTE:

Lt AND Lr VALUES IN FEET.

FOR PAVEMENT WIDTHS GREATER THAN 72 FEET USE Lr VALUES DEVELOPED BY THE DESIGN SOFTWARE.

LISTED RADIUS IS THE MINIMUM ALLOWABLE RADIUS FOR THE CORRESPONDING E, Lt, AND Lr VALUES.



## TRANSITION CURVES - URBAN 30 MPH DESIGN SPEED