

**Table 2A-3. Minimum Maintained Retroreflectivity Levels<sup>1</sup>**

| Sign Color                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Sheeting Type (ASTM D4956-04) |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |                                                                                                                                                                                                                                                                                                                                                                                                                                       | Additional Criteria |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Beaded Sheeting               |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            | Prismatic Sheeting                                                                                                                                                                                                                                                                                                                                                                                                                    |                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | I                             | II                                                                                                                                                                                                                                                                                                                                                                                                                                                 | III        | III, IV, VI, VII, VIII, IX, X                                                                                                                                                                                                                                                                                                                                                                                                         |                     |
| White on Green                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | W*; G ≥ 7                     | W*; G ≥ 15                                                                                                                                                                                                                                                                                                                                                                                                                                         | W*; G ≥ 25 | W ≥ 250; G ≥ 25                                                                                                                                                                                                                                                                                                                                                                                                                       | Overhead            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | W*; G ≥ 7                     | W ≥ 120; G ≥ 15                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |                                                                                                                                                                                                                                                                                                                                                                                                                                       | Post-mounted        |
| Black on Yellow or<br>Black on Orange                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Y*; O*                        | Y ≥ 50; O ≥ 50                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Y*; O*                        | Y ≥ 75; O ≥ 75                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3                   |
| White on Red                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | W ≥ 35; R ≥ 7                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |                                                                                                                                                                                                                                                                                                                                                                                                                                       | 4                   |
| Black on White                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | W ≥ 50                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |                                                                                                                                                                                                                                                                                                                                                                                                                                       | —                   |
| <sup>1</sup> The minimum maintained retroreflectivity levels shown in this table are in units of cd/lx/m <sup>2</sup> measured at an observation angle of 0.2° and an entrance angle of -4.0°.                                                                                                                                                                                                                                                                                                                                                                                              |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     |
| <sup>2</sup> For text and fine symbol signs measuring at least 48 inches and for all sizes of bold symbol signs                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     |
| <sup>3</sup> For text and fine symbol signs measuring less than 48 inches                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     |
| <sup>4</sup> Minimum sign contrast ratio ≥ 3:1 (white retroreflectivity ÷ red retroreflectivity)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     |
| * This sheeting type shall not be used for this color for this application.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     |
| Bold Symbol Signs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     |
| <ul style="list-style-type: none"><li>• W1-1,2 – Turn and Curve</li><li>• W1-3,4 – Reverse Turn and Curve</li><li>• W1-5 – Winding Road</li><li>• W1-6,7 – Large Arrow</li><li>• W1-8 – Chevron</li><li>• W1-10 – Intersection in Curve</li><li>• W1-11 – Hairpin Curve</li><li>• W1-15 – 270 Degree Loop</li><li>• W2-1 – Cross Road</li><li>• W2-2,3 – Side Road</li><li>• W2-4,5 – T and Y Intersection</li><li>• W2-6 – Circular Intersection</li><li>• W2-7,8 – Double Side Roads</li></ul>                                                                                            |                               | <ul style="list-style-type: none"><li>• W3-1 – Stop Ahead</li><li>• W3-2 – Yield Ahead</li><li>• W3-3 – Signal Ahead</li><li>• W4-1 – Merge</li><li>• W4-2 – Lane Ends</li><li>• W4-3 – Added Lane</li><li>• W4-5 – Entering Roadway Merge</li><li>• W4-6 – Entering Roadway Added Lane</li><li>• W6-1,2 – Divided Highway Begins and Ends</li><li>• W6-3 – Two-Way Traffic</li><li>• W10-1,2,3,4,11,12 – Grade Crossing Advance Warning</li></ul> |            | <ul style="list-style-type: none"><li>• W11-2 – Pedestrian Crossing</li><li>• W11-3,4,16-22 – Large Animals</li><li>• W11-5 – Farm Equipment</li><li>• W11-6 – Snowmobile Crossing</li><li>• W11-7 – Equestrian Crossing</li><li>• W11-8 – Fire Station</li><li>• W11-10 – Truck Crossing</li><li>• W12-1 – Double Arrow</li><li>• W16-5P,6P,7P – Pointing Arrow Plaques</li><li>• W20-7 – Flagger</li><li>• W21-1 – Worker</li></ul> |                     |
| Fine Symbol Signs (symbol signs not listed as bold symbol signs)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     |
| Special Cases                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     |
| <ul style="list-style-type: none"><li>• W3-1 – Stop Ahead: Red retroreflectivity ≥ 7</li><li>• W3-2 – Yield Ahead: Red retroreflectivity ≥ 7; White retroreflectivity ≥ 35</li><li>• W3-3 – Signal Ahead: Red retroreflectivity ≥ 7; Green retroreflectivity ≥ 7</li><li>• W3-5 – Speed Reduction: White retroreflectivity ≥ 50</li><li>• For non-diamond shaped signs, such as W14-3 (No Passing Zone), W4-4P (Cross Traffic Does Not Stop), or W13-1P,2,3,6,7 (Speed Advisory Plaques), use the largest sign dimension to determine the proper minimum retroreflectivity level.</li></ul> |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     |

**Table 2A-4. Use of Sign Shapes**

| Shape                                                     | Signs                                                                                                |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Octagon                                                   | Stop*                                                                                                |
| Equilateral Triangle (1 point down)                       | Yield*                                                                                               |
| Circle                                                    | Grade Crossing Advance Warning*                                                                      |
| Pennant Shape/Isosceles Triangle (longer axis horizontal) | No Passing*                                                                                          |
| Pentagon (pointed up)                                     | School Advance Warning Sign (squared bottom corners)*<br>County Route Sign (tapered bottom corners)* |
| Crossbuck (two rectangles in an "X" configuration)        | Grade Crossing*                                                                                      |
| Diamond                                                   | Warning Series                                                                                       |
| Rectangle (including square)                              | Regulatory Series<br>Guide Series**<br>Warning Series                                                |
| Trapezoid                                                 | Recreational and Cultural Interest Area Series<br>National Forest Route Sign                         |

\* This sign shall be exclusively the shape shown.

\*\* Guide series includes general service, specific service, tourist-oriented directional, general information, recreational and cultural interest area, and emergency management signs.

**Table 2A-5. Common Uses of Sign Colors**

| Type of Sign                | Legend |       |      |       |        |        |                          |                  | Background |      |       |       |         |      |       |         |        |                          |                  |
|-----------------------------|--------|-------|------|-------|--------|--------|--------------------------|------------------|------------|------|-------|-------|---------|------|-------|---------|--------|--------------------------|------------------|
|                             | Black  | Green | Red  | White | Yellow | Orange | Fluorescent Yellow-Green | Fluorescent Pink | Black      | Blue | Brown | Green | Orange* | Red* | White | Yellow* | Purple | Fluorescent Yellow-Green | Fluorescent Pink |
| Regulatory                  | X      |       | X    | X     |        |        |                          |                  | X          |      |       |       |         | X    | X     |         |        |                          |                  |
| Prohibitive                 |        |       | X    | X     |        |        |                          |                  |            |      |       |       |         | X    | X     |         |        |                          |                  |
| Permissive                  |        | X     |      |       |        |        |                          |                  |            |      |       |       |         |      | X     |         |        |                          |                  |
| Warning                     | X      |       |      |       |        |        |                          |                  |            |      |       |       |         |      |       | X       |        |                          |                  |
| Pedestrian                  | X      |       |      |       |        |        |                          |                  |            |      |       |       |         |      |       | X       |        | X                        |                  |
| Bicycle                     | X      |       |      |       |        |        |                          |                  |            |      |       |       |         |      |       | X       |        | X                        |                  |
| Guide                       |        |       |      | X     |        |        |                          |                  |            |      |       | X     |         |      |       |         |        |                          |                  |
| Interstate Route            |        |       |      | X     |        |        |                          |                  |            | X    |       |       |         | X    |       |         |        |                          |                  |
| State Route                 | X      |       |      |       |        |        |                          |                  |            |      |       |       |         |      | X     |         |        |                          |                  |
| U.S. Route                  | X      |       |      |       |        |        |                          |                  |            |      |       |       |         |      | X     |         |        |                          |                  |
| County Route                |        |       |      |       | X      |        |                          |                  |            | X    |       |       |         |      |       |         |        |                          |                  |
| Forest Route                |        |       |      | X     |        |        |                          |                  |            |      | X     |       |         |      |       |         |        |                          |                  |
| Street Name                 |        |       |      | X     |        |        |                          |                  |            |      |       | X     |         |      |       |         |        |                          |                  |
| Destination                 |        |       |      | X     |        |        |                          |                  |            |      |       | X     |         |      |       |         |        |                          |                  |
| Reference Location          |        |       |      | X     |        |        |                          |                  |            |      |       | X     |         |      |       |         |        |                          |                  |
| Information                 |        |       |      | X     |        |        |                          |                  |            | X    |       | X     |         |      |       |         |        |                          |                  |
| Evacuation Route            |        |       |      | X     |        |        |                          |                  |            | X    |       |       |         |      |       |         |        |                          |                  |
| Road User Service           |        |       |      | X     |        |        |                          |                  |            | X    |       |       |         |      |       |         |        |                          |                  |
| Recreational                |        |       |      | X     |        |        |                          |                  |            |      | X     | X     |         |      |       |         |        |                          |                  |
| Temporary Traffic Control   | X      |       |      |       |        |        |                          |                  |            |      |       |       | X       |      |       |         |        |                          |                  |
| Incident Management         | X      |       |      |       |        |        |                          |                  |            |      |       |       | X       |      |       |         |        |                          | X                |
| School                      | X      |       |      |       |        |        |                          |                  |            |      |       |       |         |      |       |         |        | X                        |                  |
| ETC-Account Only            | X      |       |      |       |        |        |                          |                  |            |      |       |       |         |      |       |         | X****  |                          |                  |
| Changeable Message Signs    |        |       |      |       |        |        |                          |                  |            |      |       |       |         |      |       |         |        |                          |                  |
| Regulatory                  |        |       | X*** | X     |        |        |                          |                  | X          |      |       |       |         |      |       |         |        |                          |                  |
| Warning                     |        |       |      |       | X      |        |                          |                  | X          |      |       |       |         |      |       |         |        |                          |                  |
| Temporary Traffic Control   |        |       |      |       | X      | X      |                          |                  | X          |      |       |       |         |      |       |         |        |                          |                  |
| Guide                       |        |       |      | X     |        |        |                          |                  | X          |      |       | X**   |         |      |       |         |        |                          |                  |
| Motorist Services           |        |       |      | X     |        |        |                          |                  | X          | X**  |       |       |         |      |       |         |        |                          |                  |
| Incident Management         |        |       |      |       | X      |        |                          | X                | X          |      |       |       |         |      |       |         |        |                          |                  |
| School, Pedestrian, Bicycle |        |       |      |       | X      |        | X                        |                  | X          |      |       |       |         |      |       |         |        |                          |                  |

\* Fluorescent versions of these background colors may also be used.

\*\* These alternative background colors would be provided by blue or green lighted pixels such that the entire CMS would be lighted, not just the legend.

\*\*\* Red is used only for the circle and slash or other red elements of a similar static regulatory sign.

\*\*\*\* The use of the color purple on signs is restricted per the provisions of Paragraph 1 of Section 2F.03.

**Table 2B-1. Regulatory Sign and Plaque Sizes (Sheet 1 of 4)**

| Sign or Plaque                                     | Sign Designation     | Section | Conventional Road |             | Expressway | Freeway  | Minimum   | Oversized   |
|----------------------------------------------------|----------------------|---------|-------------------|-------------|------------|----------|-----------|-------------|
|                                                    |                      |         | Single Lane       | Multi-Lane  |            |          |           |             |
| Stop                                               | R1-1                 | 2B.05   | 30 x 30*          | 36 x 36     | 36 x 36    | —        | 30 x 30*  | 48 x 48     |
| Yield                                              | R1-2                 | 2B.08   | 36x36x36*         | 48x48x48    | 48x48x48   | 60x60x60 | 30x30x30* | —           |
| To Oncoming Traffic (plaque)                       | R1-2aP               | 2B.10   | 24 x 18           | 24 x 18     | 36 x 30    | 48 x 36  | 24 x 18   | —           |
| All Way (plaque)                                   | R1-3P                | 2B.05   | 18 x 6            | 18 x 6      | —          | —        | —         | 30 x 12     |
| Yield Here to Peds                                 | R1-5                 | 2B.11   | —                 | 36 x 36     | —          | —        | —         | 36 x 36     |
| Yield Here to Pedestrians                          | R1-5a                | 2B.11   | —                 | 36 x 48     | —          | —        | —         | 36 x 48     |
| Stop Here for Peds                                 | R1-5b                | 2B.11   | —                 | 36 x 36     | —          | —        | —         | 36 x 36     |
| Stop Here for Pedestrians                          | R1-5c                | 2B.11   | —                 | 36 x 48     | —          | —        | —         | 36 x 48     |
| In-Street Ped Crossing                             | R1-6,6a              | 2B.12   | 12 x 36           | 12 x 36     | —          | —        | —         | —           |
| Overhead Ped Crossing                              | R1-9,9a              | 2B.12   | 90 x 24           | 90 x 24     | —          | —        | —         | —           |
| Except Right Turn (plaque)                         | R1-10P               | 2B.05   | 24 x 18           | 24 x 18     | —          | —        | —         | —           |
| Speed Limit                                        | R2-1                 | 2B.13   | 24 x 30*          | 30 x 36     | 36 x 48    | 48 x 60  | 18 x 24*  | 30 x 36     |
| Truck Speed Limit (plaque)                         | R2-2P                | 2B.14   | 24 x 24           | 24 x 24     | 36 x 36    | 48 x 48  | —         | 36 x 36     |
| Night Speed Limit (plaque)                         | R2-3P                | 2B.15   | 24 x 24           | 24 x 24     | 36 x 36    | 48 x 48  | —         | 36 x 36     |
| Minimum Speed Limit (plaque)                       | R2-4P                | 2B.16   | 24 x 30           | 24 x 30     | 36 x 48    | 48 x 60  | —         | 36 x 48     |
| Combined Speed Limit                               | R2-4a                | 2B.16   | 24 x 48           | 24 x 48     | 36 x 72    | 48 x 96  | —         | 36 x 72     |
| Unless Otherwise Posted (plaque)                   | R2-5P                | 2B.13   | 24 x 18           | 24 x 18     | —          | —        | —         | —           |
| Citywide (plaque)                                  | R2-5aP               | 2B.13   | 24 x 6            | 24 x 6      | —          | —        | —         | —           |
| Neighborhood (plaque)                              | R2-5bP               | 2B.13   | 24 x 6            | 24 x 6      | —          | —        | —         | —           |
| Residential (plaque)                               | R2-5cP               | 2B.13   | 24 x 6            | 24 x 6      | —          | —        | —         | —           |
| Fines Higher (plaque)                              | R2-6P                | 2B.17   | 24 x 18           | 24 x 18     | 36 x 24    | 48 x 36  | —         | 36 x 24     |
| Fines Double (plaque)                              | R2-6aP               | 2B.17   | 24 x 18           | 24 x 18     | 36 x 24    | 48 x 36  | —         | 36 x 24     |
| \$XX Fine (plaque)                                 | R2-6bP               | 2B.17   | 24 x 18           | 24 x 18     | 36 x 24    | 48 x 36  | —         | 36 x 24     |
| Begin Higher Fines Zone                            | R2-10                | 2B.17   | 24 x 30           | 24 x 30     | 36 x 48    | 48 x 60  | —         | 36 x 48     |
| End Higher Fines Zone                              | R2-11                | 2B.17   | 24 x 30           | 24 x 30     | 36 x 48    | 48 x 60  | —         | 36 x 48     |
| Movement Prohibition                               | R3-1,2,3,4,18,27     | 2B.18   | 24 x 24*          | 36 x 36     | 36 x 36    | —        | —         | 48 x 48     |
| Mandatory Movement Lane Control                    | R3-5,5a              | 2B.20   | 30 x 36           | 30 x 36     | —          | —        | —         | —           |
| Left Lane (plaque)                                 | R3-5bP               | 2B.20   | 30 x 12           | 30 x 12     | —          | —        | —         | —           |
| HOV 2+ (plaque)                                    | R3-5cP               | 2B.20   | 24 x 12           | 24 x 12     | —          | —        | —         | —           |
| Taxi Lane (plaque)                                 | R3-5dP               | 2B.20   | 30 x 12           | 30 x 12     | —          | —        | —         | —           |
| Center Lane (plaque)                               | R3-5eP               | 2B.20   | 30 x 12           | 30 x 12     | —          | —        | —         | —           |
| Right Lane (plaque)                                | R3-5fP               | 2B.20   | 30 x 12           | 30 x 12     | —          | —        | —         | —           |
| Bus Lane (plaque)                                  | R3-5gP               | 2B.20   | 30 x 12           | 30 x 12     | —          | —        | —         | —           |
| Optional Movement Lane Control                     | R3-6                 | 2B.21   | 30 x 36           | 30 x 36     | —          | —        | —         | —           |
| Right (Left) Lane Must Turn Right (Left)           | R3-7                 | 2B.20   | 30 x 30*          | 36 x 36     | —          | —        | —         | —           |
| Advance Intersection Lane Control                  | R3-8,8a,8b           | 2B.22   | Varies x 30       | Varies x 30 | —          | —        | —         | Varies x 36 |
| Two-Way Left Turn Only (overhead)                  | R3-9a                | 2B.24   | 30 x 36           | 30 x 36     | —          | —        | —         | —           |
| Two-Way Left Turn Only (post-mounted)              | R3-9b                | 2B.24   | 24 x 36           | 24 x 36     | —          | —        | —         | 36 x 48     |
| BEGIN                                              | R3-9cP               | 2B.25   | 30 x 12           | 30 x 12     | —          | —        | —         | —           |
| END                                                | R3-9dP               | 2B.25   | 30 x 12           | 30 x 12     | —          | —        | —         | —           |
| Reversible Lane Control (symbol)                   | R3-9e                | 2B.26   | 108 x 48          | 108 x 48    | —          | —        | —         | —           |
| Reversible Lane Control (post-mounted)             | R3-9f                | 2B.26   | 30 x 42*          | 36 x 54     | —          | —        | —         | —           |
| Advance Reversible Lane Control Transition Signing | R3-9g,9h             | 2B.26   | 108 x 36          | 108 x 36    | —          | —        | —         | —           |
| End Reverse Lane                                   | R3-9i                | 2B.26   | 108 x 48          | 108 x 48    | —          | —        | —         | —           |
| Begin Right (Left) Turn Lane                       | R3-20                | 2B.20   | 24 x 36           | 24 x 36     | —          | —        | —         | —           |
| All Turns (U Turn) from Right Lane                 | R3-23,23a            | 2B.27   | 60 x 36           | 60 x 36     | —          | —        | —         | —           |
| All Turns (U Turn) with arrow                      | R3-24,24b,25,25b,26a | 2B.27   | 72 x 18           | 72 x 18     | —          | —        | —         | —           |
| U and Left Turns with arrow                        | R3-24a,25a,26        | 2B.27   | 60 x 24           | 60 x 24     | —          | —        | —         | —           |
| Right Lane Must Exit                               | R3-33                | 2B.23   | —                 | —           | 78 x 36    | 78 x 36  | —         | —           |

**Table 2B-1. Regulatory Sign and Plaque Sizes (Sheet 2 of 4)**

| Sign or Plaque                                                     | Sign Designation                                  | Section | Conventional Road |            | Expressway | Freeway | Minimum  | Oversized |
|--------------------------------------------------------------------|---------------------------------------------------|---------|-------------------|------------|------------|---------|----------|-----------|
|                                                                    |                                                   |         | Single Lane       | Multi-Lane |            |         |          |           |
| Do Not Pass                                                        | R4-1                                              | 2B.28   | 24 x 30           | 24 x 30    | 36 x 48    | 48 x 60 | 18 x 24  | 36 x 48   |
| Pass With Care                                                     | R4-2                                              | 2B.29   | 24 x 30           | 24 x 30    | 36 x 48    | 48 x 60 | 18 x 24  | 36 x 48   |
| Slower Traffic Keep Right                                          | R4-3                                              | 2B.30   | 24 x 30           | 24 x 30    | 36 x 48    | 48 x 60 | 18 x 24  | 36 x 48   |
| Trucks Use Right Lane                                              | R4-5                                              | 2B.31   | 24 x 30           | 24 x 30    | 36 x 48    | 48 x 60 | —        | 36 x 48   |
| Keep Right                                                         | R4-7,7a,7b                                        | 2B.32   | 24 x 30           | 24 x 30    | 36 x 48    | 48 x 60 | 18 x 24  | 36 x 48   |
| Narrow Keep Right                                                  | R4-7c                                             | 2B.32   | 18 x 30           | 18 x 30    | —          | —       | —        | —         |
| Keep Left                                                          | R4-8,8a,8b                                        | 2B.32   | 24 x 30           | 24 x 30    | 36 x 48    | 48 x 60 | 18 x 24  | 36 x 48   |
| Narrow Keep Left                                                   | R4-8c                                             | 2B.32   | 18 x 30           | 18 x 30    | —          | —       | —        | —         |
| Stay in Lane                                                       | R4-9                                              | 2B.33   | 24 x 30           | 24 x 30    | 36 x 48    | 48 x 60 | 18 x 24  | 36 x 48   |
| Runaway Vehicles Only                                              | R4-10                                             | 2B.34   | 48 x 48           | 48 x 48    | —          | —       | —        | —         |
| Slow Vehicles with XX or More Following Vehicles Must Use Turn-Out | R4-12                                             | 2B.35   | 42 x 24           | 42 x 24    | —          | —       | —        | —         |
| Slow Vehicles Must Use Turn-Out Ahead                              | R4-13                                             | 2B.35   | 42 x 24           | 42 x 24    | —          | —       | —        | —         |
| Slow Vehicles Must Turn Out                                        | R4-14                                             | 2B.35   | 30 x 42           | 30 x 42    | —          | —       | —        | —         |
| Keep Right Except to Pass                                          | R4-16                                             | 2B.30   | 24 x 30           | 24 x 30    | 36 x 48    | 48 x 60 | 18 x 24  | 36 x 48   |
| Do Not Drive on Shoulder                                           | R4-17                                             | 2B.36   | 24 x 30           | 24 x 30    | 36 x 48    | 48 x 60 | 18 x 24  | 36 x 48   |
| Do Not Pass on Shoulder                                            | R4-18                                             | 2B.36   | 24 x 30           | 24 x 30    | 36 x 48    | 48 x 60 | 18 x 24  | 36 x 48   |
| Do Not Enter                                                       | R5-1                                              | 2B.37   | 30 x 30*          | 36 x 36    | 36 x 36    | 48 x 48 | —        | 36 x 36   |
| Wrong Way                                                          | R5-1a                                             | 2B.38   | 36 x 24*          | 42 x 30    | 36 x 24*   | 42 x 30 | 30 x 18* | 42 x 30   |
| No Trucks                                                          | R5-2,2a                                           | 2B.39   | 24 x 24           | 24 x 24    | 30 x 30    | 36 x 36 | —        | 36 x 36   |
| No Motor Vehicles                                                  | R5-3                                              | 2B.39   | 24 x 24           | 24 x 24    | —          | —       | 24 x 24  | —         |
| No Commercial Vehicles                                             | R5-4                                              | 2B.39   | 24 x 30           | 24 x 30    | 36 x 48    | 36 x 48 | —        | —         |
| No Vehicles with Lugs                                              | R5-5                                              | 2B.39   | 24 x 30           | 24 x 30    | 36 x 48    | 48 x 60 | —        | —         |
| No Bicycles                                                        | R5-6                                              | 2B.39   | 24 x 24           | 24 x 24    | 30 x 30    | 36 x 36 | 24 x 24  | 48 x 48   |
| No Non-Motorized Traffic                                           | R5-7                                              | 2B.39   | 30 x 24           | 30 x 24    | 42 x 24    | 48 x 30 | —        | 42 x 24   |
| No Motor-Driven Cycles                                             | R5-8                                              | 2B.39   | 30 x 24           | 30 x 24    | 42 x 24    | 48 x 30 | —        | 42 x 24   |
| No Pedestrians, Bicycles, Motor-Driven Cycles                      | R5-10a                                            | 2B.39   | 30 x 36           | 30 x 36    | —          | —       | —        | —         |
| No Pedestrians or Bicycles                                         | R5-10b                                            | 2B.39   | 30 x 18           | 30 x 18    | —          | —       | —        | —         |
| No Pedestrians                                                     | R5-10c                                            | 2B.39   | 24 x 12           | 24 x 12    | —          | —       | —        | —         |
| Authorized Vehicles Only                                           | R5-11                                             | 2B.39   | 30 x 24           | 30 x 24    | —          | —       | —        | —         |
| One Way                                                            | R6-1                                              | 2B.40   | 36 x 12*          | 54 x 18    | 54 x 18    | 54 x 18 | —        | 54 x 18   |
| One Way                                                            | R6-2                                              | 2B.40   | 24 x 30*          | 30 x 36    | 36 x 48    | 48 x 60 | 18 x 24* | 36 x 48   |
| Divided Highway Crossing                                           | R6-3,3a                                           | 2B.42   | 30 x 24           | 30 x 24    | 36 x 30    | —       | —        | 36 x 30   |
| Roundabout Directional (2 chevrons)                                | R6-4                                              | 2B.43   | 30 x 24           | 30 x 24    | —          | —       | —        | —         |
| Roundabout Directional (3 chevrons)                                | R6-4a                                             | 2B.43   | 48 x 24           | 48 x 24    | —          | —       | —        | —         |
| Roundabout Directional (4 chevrons)                                | R6-4b                                             | 2B.43   | 60 x 24           | 60 x 24    | —          | —       | —        | —         |
| Roundabout Circulation (plaque)                                    | R6-5P                                             | 2B.44   | 30 x 30           | 30 x 30    | —          | —       | —        | —         |
| BEGIN ONE WAY                                                      | R6-6                                              | 2B.40   | 24 x 30           | 30 x 36    | —          | —       | —        | —         |
| END ONE WAY                                                        | R6-7                                              | 2B.40   | 24 x 30           | 30 x 36    | —          | —       | —        | —         |
| Parking Restrictions                                               | R7-1, 2,2a,3,4,5,6,7,8, 21,21a,22,23, 23a,107,108 | 2B.46   | 12 x 18           | 12 x 18    | —          | —       | —        | —         |
| Van Accessible (plaque)                                            | R7-8P                                             | 2B.46   | 18 x 9            | 18 x 9     | —          | —       | —        | —         |
| Fee Station                                                        | R7-20                                             | 2B.46   | 24 x 18           | 24 x 18    | —          | —       | —        | —         |
| No Parking (with transit logo)                                     | R7-107a                                           | 2B.46   | 12 x 30           | 12 x 30    | —          | —       | —        | —         |
| No Parking/Restricted Parking (combined sign)                      | R7-200                                            | 2B.46   | 24 x 18           | 24 x 18    | —          | —       | —        | —         |
| No Parking/Restricted Parking (combined sign)                      | R7-200a                                           | 2B.46   | 12 x 30           | 12 x 30    | —          | —       | —        | —         |
| Tow Away Zone (plaque)                                             | R7-201P,201aP                                     | 2B.46   | 12 x 6            | 12 x 6     | —          | —       | —        | —         |
| This Side of Sign (plaque)                                         | R7-202P                                           | 2B.46   | 12 x 6            | 12 x 6     | —          | —       | —        | —         |

**Table 2B-1. Regulatory Sign and Plaque Sizes (Sheet 3 of 4)**

| Sign or Plaque                                     | Sign Designation          | Section | Conventional Road |            | Expressway | Freeway | Minimum  | Oversized |
|----------------------------------------------------|---------------------------|---------|-------------------|------------|------------|---------|----------|-----------|
|                                                    |                           |         | Single Lane       | Multi-Lane |            |         |          |           |
| Emergency Snow Route                               | R7-203                    | 2B.46   | 18 x 24           | 18 x 24    | —          | —       | —        | 24 x 30   |
| No Parking on Pavement                             | R8-1                      | 2B.46   | 24 x 30           | 24 x 30    | 36 x 48    | 48 x 60 | —        | 36 x 48   |
| No Parking Except on Shoulder                      | R8-2                      | 2B.46   | 24 x 30           | 24 x 30    | 36 x 48    | 48 x 60 | —        | 36 x 48   |
| No Parking (symbol)                                | R8-3                      | 2B.46   | 24 x 24*          | 30 x 30    | 36 x 36    | 48 x 48 | 12 x 12* | 36 x 36   |
| No Parking                                         | R8-3a                     | 2B.46   | 24 x 30           | 24 x 30    | 36 x 36    | 48 x 48 | 18 x 24  | 36 x 36   |
| Except Sundays and Holidays (plaque)               | R8-3bP                    | 2B.46   | 24 x 18           | 24 x 18    | —          | —       | 12 x 9   | 30 x 24   |
| On Pavement (plaque)                               | R8-3cP                    | 2B.46   | 24 x 18           | 24 x 18    | —          | —       | 12 x 9   | 30 x 24   |
| On Bridge (plaque)                                 | R8-3dP                    | 2B.46   | 24 x 18           | 24 x 18    | —          | —       | 12 x 9   | 30 x 24   |
| On Tracks (plaque)                                 | R8-3eP                    | 2B.46   | 12 x 9            | 12 x 9     | —          | —       | —        | 30 x 24   |
| Except on Shoulder (plaque)                        | R8-3fP                    | 2B.46   | 24 x 18           | 24 x 18    | —          | —       | 12 x 9   | 30 x 24   |
| Loading Zone (plaque)                              | R8-3gP                    | 2B.46   | 24 x 18           | 24 x 18    | —          | —       | 12 x 9   | 30 x 24   |
| Times of Day (plaque)                              | R8-3hP                    | 2B.46   | 24 x 18           | 24 x 18    | —          | —       | 12 x 9   | 30 x 24   |
| Emergency Parking Only                             | R8-4                      | 2B.49   | 30 x 24           | 30 x 24    | 30 x 24    | 48 x 36 | —        | 48 x 36   |
| No Stopping on Pavement                            | R8-5                      | 2B.46   | 24 x 30           | 24 x 30    | 36 x 48    | 48 x 60 | —        | 36 x 48   |
| No Stopping Except on Shoulder                     | R8-6                      | 2B.46   | 24 x 30           | 24 x 30    | 36 x 48    | 48 x 60 | —        | 36 x 48   |
| Emergency Stopping Only                            | R8-7                      | 2B.49   | 30 x 24           | 30 x 24    | 48 x 36    | 48 x 36 | —        | 48 x 36   |
| Walk on Left Facing Traffic                        | R9-1                      | 2B.50   | 18 x 24           | 18 x 24    | —          | —       | —        | —         |
| Cross Only at Crosswalks                           | R9-2                      | 2B.51   | 12 x 18           | 12 x 18    | —          | —       | —        | —         |
| No Pedestrian Crossing (symbol)                    | R9-3                      | 2B.51   | 18 x 18           | 18 x 18    | 24 x 24    | 30 x 30 | —        | 30 x 30   |
| No Pedestrian Crossing                             | R9-3a                     | 2B.51   | 12 x 18           | 12 x 18    | —          | —       | —        | —         |
| Use Crosswalk (plaque)                             | R9-3bP                    | 2B.51   | 18 x 12           | 18 x 12    | —          | —       | —        | —         |
| No Hitchhiking (symbol)                            | R9-4                      | 2B.50   | 18 x 18           | 18 x 18    | —          | —       | —        | 24 x 24   |
| No Hitchhiking                                     | R9-4a                     | 2B.50   | 18 x 24           | 18 x 24    | —          | —       | 12 x 18  | —         |
| No Skaters                                         | R9-13                     | 2B.39   | 18 x 18           | 18 x 18    | 24 x 24    | 30 x 30 | —        | 30 x 30   |
| No Equestrians                                     | R9-14                     | 2B.39   | 18 x 18           | 18 x 18    | 24 x 24    | 30 x 30 | —        | 30 x 30   |
| Cross Only On Green                                | R10-1                     | 2B.52   | 12 x 18           | 12 x 18    | —          | —       | —        | —         |
| Pedestrian Signs and Plaques                       | R10-2, 3,3b,3c,3d,4       | 2B.52   | 9 x 12            | 9 x 12     | —          | —       | —        | —         |
| Pedestrian Signs                                   | R10-3a,3e,3f, 3g,3h,3i,4a | 2B.52   | 9 x 15            | 9 x 15     | —          | —       | —        | —         |
| Left on Green Arrow Only                           | R10-5                     | 2B.53   | 30 x 36           | 30 x 36    | 48 x 60    | —       | 24 x 30  | 48 x 60   |
| Stop Here on Red                                   | R10-6                     | 2B.53   | 24 x 36           | 24 x 36    | —          | —       | —        | 36 x 48   |
| Stop Here on Red                                   | R10-6a                    | 2B.53   | 24 x 30           | 24 x 30    | —          | —       | —        | 36 x 42   |
| Do Not Block Intersection                          | R10-7                     | 2B.53   | 24 x 30           | 24 x 30    | —          | —       | —        | —         |
| Use Lane with Green Arrow                          | R10-8                     | 2B.53   | 36 x 42           | 36 x 42    | 36 x 42    | —       | —        | 60 x 72   |
| Left (Right) Turn Signal                           | R10-10                    | 2B.53   | 30 x 36           | 30 x 36    | —          | —       | —        | —         |
| No Turn on Red                                     | R10-11                    | 2B.54   | 24 x 30*          | 36 x 48    | —          | —       | —        | 36 x 48   |
| No Turn on Red                                     | R10-11a                   | 2B.54   | 30 x 36*          | 36 x 48    | —          | —       | —        | —         |
| No Turn on Red                                     | R10-11b                   | 2B.54   | 36 x 36           | 36 x 36    | —          | —       | —        | —         |
| No Turn on Red Except From Right Lane              | R10-11c                   | 2B.54   | 30 x 42           | 30 x 42    | —          | —       | —        | —         |
| No Turn on Red From This Lane                      | R10-11d                   | 2B.54   | 30 x 42           | 30 x 42    | —          | —       | —        | —         |
| Left Turn Yield on Green                           | R10-12                    | 2B.53   | 30 x 36           | 30 x 36    | —          | —       | —        | —         |
| Emergency Signal                                   | R10-13                    | 2B.53   | 42 x 30           | 42 x 30    | —          | —       | —        | —         |
| Emergency Signal - Stop on Flashing Red            | R10-14                    | 2B.53   | 36 x 42           | 36 x 42    | —          | —       | —        | —         |
| Emergency Signal - Stop on Flashing Red (overhead) | R10-14a                   | 2B.53   | 60 x 24           | 60 x 24    | —          | —       | —        | —         |
| Turning Vehicles Yield to Peds                     | R10-15                    | 2B.53   | 30 x 30           | 30 x 30    | —          | —       | —        | —         |
| U-Turn Yield to Right Turn                         | R10-16                    | 2B.53   | 30 x 36           | 30 x 36    | —          | —       | —        | —         |
| Right on Red Arrow After Stop                      | R10-17a                   | 2B.54   | 36 x 48           | 36 x 48    | —          | —       | —        | —         |
| Traffic Laws Photo Enforced                        | R10-18                    | 2B.55   | 36 x 24           | 36 x 24    | 48 x 30    | 54 x 36 | —        | 54 x 36   |
| Photo Enforced (symbol plaque)                     | R10-19P                   | 2B.55   | 24 x 12           | 24 x 12    | 36 x 18    | 48 x 24 | —        | 48 x 24   |
| Photo Enforced (plaque)                            | R10-19aP                  | 2B.55   | 24 x 18           | 24 x 18    | 36 x 30    | 48 x 36 | —        | 48 x 36   |
| MON—FRI (and times) (3 lines) (plaque)             | R10-20aP                  | 2B.53   | 24 x 24           | 24 x 24    | —          | —       | —        | —         |

**Table 2B-1. Regulatory Sign and Plaque Sizes (Sheet 4 of 4)**

| Sign or Plaque                                    | Sign Designation | Section | Conventional Road |            | Expressway | Freeway  | Minimum | Oversized |
|---------------------------------------------------|------------------|---------|-------------------|------------|------------|----------|---------|-----------|
|                                                   |                  |         | Single Lane       | Multi-Lane |            |          |         |           |
| SUNDAY (and times) (2 lines) (plaque)             | R10-20aP         | 2B.53   | 24 x 18           | 24 x 18    | —          | —        | —       | —         |
| Crosswalk, Stop on Red                            | R10-23           | 2B.53   | 24 x 30           | 24 x 30    | —          | —        | —       | —         |
| Push Button To Turn On Warning Lights             | R10-25           | 2B.52   | 9 x 12            | 9 x 12     | —          | —        | —       | —         |
| Left Turn Yield on Flashing Red Arrow After Stop  | R10-27           | 2B.53   | 30 x 36           | 30 x 36    | —          | —        | —       | —         |
| XX Vehicles Per Green                             | R10-28           | 2B.56   | 24 x 30           | 24 x 30    | —          | —        | —       | —         |
| XX Vehicles Per Green Each Lane                   | R10-29           | 2B.56   | 36 x 24           | 36 x 24    | —          | —        | —       | —         |
| Right Turn on Red Must Yield to U-Turn            | R10-30           | 2B.54   | 30 x 36           | 30 x 36    | —          | —        | —       | —         |
| At Signal (plaque)                                | R10-31P          | 2B.53   | 24 x 9            | 24 x 9     | —          | —        | —       | —         |
| Push Button for 2 Seconds for Extra Crossing Time | R10-32P          | 2B.52   | 9 x 12            | 9 x 12     | —          | —        | —       | —         |
| Keep Off Median                                   | R11-1            | 2B.57   | 24 x 30           | 24 x 30    | —          | —        | —       | —         |
| Road Closed                                       | R11-2            | 2B.58   | 48 x 30           | 48 x 30    | —          | —        | —       | —         |
| Road Closed - Local Traffic Only                  | R11-3a,3b,4      | 2B.58   | 60 x 30           | 60 x 30    | —          | —        | —       | —         |
| Weight Limit                                      | R12-1,2          | 2B.59   | 24 x 30           | 24 x 30    | 36 x 48    | —        | —       | 36 x 48   |
| Weight Limit                                      | R12-3            | 2B.59   | 24 x 36           | 24 x 36    | —          | —        | —       | —         |
| Weight Limit                                      | R12-4            | 2B.59   | 36 x 24           | 36 x 24    | —          | —        | —       | —         |
| Weight Limit                                      | R12-5            | 2B.59   | 24 x 36           | 24 x 36    | 36 x 48    | 48 x 60  | —       | —         |
| Weigh Station                                     | R13-1            | 2B.60   | 72 x 54           | 72 x 54    | 96 x 72    | 120 x 90 | —       | —         |
| Truck Route                                       | R14-1            | 2B.61   | 24 x 18           | 24 x 18    | —          | —        | —       | —         |
| Hazardous Material                                | R14-2,3          | 2B.62   | 24 x 24           | 24 x 24    | 30 x 30    | 36 x 36  | —       | 42 x 42   |
| National Network                                  | R14-4,5          | 2B.63   | 30 x 30           | 30 x 30    | 36 x 36    | 36 x 36  | —       | 42 x 42   |
| Fender Bender Move Vehicles                       | R16-4            | 2B.65   | 36 x 24           | 36 x 24    | 48 x 36    | 60 x 48  | —       | 48 x 36   |
| Lights On When Using Wipers or Raining            | R16-5,6          | 2B.64   | 24 x 30           | 24 x 30    | 36 x 48    | 48 x 60  | —       | 36 x 48   |
| Turn On Headlights Next XX Miles                  | R16-7            | 2B.64   | 48 x 15           | 48 x 15    | 72 x 24    | 96 x 30  | —       | 72 x 24   |
| Turn On, Check Headlights                         | R16-8,9          | 2B.64   | 30 x 15           | 30 x 15    | 48 x 24    | 60 x 30  | —       | 48 x 24   |
| Begin, End Daytime Headlight Section              | R16-10,11        | 2B.64   | 48 x 15           | 48 x 15    | 72 x 24    | 96 x 30  | —       | 72 x 24   |

\* See Table 9B-1 for minimum size required for signs on bicycle facilities

Notes: 1. Larger signs may be used when appropriate  
2. Dimensions in inches are shown as width x height

**Table 2C-1. Categories of Warning Signs and Plaques**

| Category                   | Group                           | Section     | Signs or Plaques                                                                                                    | Sign Designations                                    |
|----------------------------|---------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| Roadway Related            | Changes in Horizontal Alignment | 2C.07       | Turn, Curve, Reverse Turn, Reverse Curve, Winding Road, Hairpin Curve, 270-Degree Curve                             | W1-1,2,3,4,5,11,15                                   |
|                            |                                 | 2C.08       | Advisory Speed                                                                                                      | W13-1P                                               |
|                            |                                 | 2C.09       | Chevron Alignment                                                                                                   | W1-8                                                 |
|                            |                                 | 2C.10       | Combination Horizontal Alignment/Advisory Speed                                                                     | W1-1a,2a                                             |
|                            |                                 | 2C.11       | Combination Horizontal Alignment/Intersection                                                                       | W1-10,10a,10b,10c,10d                                |
|                            |                                 | 2C.12       | Large Arrow (one direction)                                                                                         | W1-6                                                 |
|                            |                                 | 2C.13       | Truck Rollover                                                                                                      | W1-13                                                |
|                            |                                 | 2C.14       | Advisory Exit or Ramp Speed                                                                                         | W13-2,3                                              |
|                            |                                 | 2C.15       | Combination Horizontal Alignment/Advisory Exit or Ramp Speed                                                        | W13-6,7                                              |
|                            | Vertical Alignment              | 2C.16       | Hill                                                                                                                | W7-1,1a,2P,2bP,3P,3aP,3bP                            |
|                            |                                 | 2C.17       | Truck Escape Ramp                                                                                                   | W7-4,4b,4c,4dP,4eP,4fP                               |
|                            |                                 | 2C.18       | Hill Blocks View                                                                                                    | W7-6                                                 |
|                            | Cross Section                   | 2C.19       | Road Narrows                                                                                                        | W5-1                                                 |
|                            |                                 | 2C.20,21    | Narrow Bridge, One Lane Bridge                                                                                      | W5-2,3                                               |
|                            |                                 | 2C.22,23,25 | Divided Highway, Divided Highway Ends, Double Arrow                                                                 | W6-1,2; W12-1                                        |
|                            |                                 | 2C.24       | Freeway or Expressway Ends, All Traffic Must Exit                                                                   | W19-1,2,3,4,5                                        |
|                            |                                 | 2C.26       | Dead End, No Outlet                                                                                                 | W14-1,1a,2,2a                                        |
|                            |                                 | 2C.27       | Low Clearance                                                                                                       | W12-2,2a                                             |
|                            | Roadway Surface Condition       | 2C.28,29    | Bump, Dip, Speed Hump                                                                                               | W8-1,2; W17-1                                        |
|                            |                                 | 2C.30       | Pavement Ends                                                                                                       | W8-3                                                 |
|                            |                                 | 2C.31       | Shoulder, Uneven Lanes                                                                                              | W8-4,9,11,17,17P,23,25                               |
|                            |                                 | 2C.32       | Slippery When Wet, Loose Gravel, Rough Road, Bridge Ices Before Road, Fallen Rocks                                  | W8-5,7,8,13,14                                       |
|                            |                                 | 2C.33       | Grooved Pavement, Metal Bridge Deck                                                                                 | W8-15,15P,16                                         |
|                            |                                 | 2C.34       | No Center Line                                                                                                      | W8-12                                                |
|                            | Weather                         | 2C.35       | Road May Flood, Flood Gauge, Gusty Winds Area, Fog Area                                                             | W8-18,19,21,22                                       |
| Traffic Related            | Advance Traffic Control         | 2C.36-39    | Stop Ahead, Yield Ahead, Signal Ahead, Be Prepared To Stop, Speed Reduction, Drawbridge Ahead, Ramp Meter Ahead     | W3-1,2,3,4,5,5a,6,7,8                                |
|                            | Traffic Flow                    | 2C.40-45    | Merge, No Merge Area, Lane Ends, Added Lane, Two-Way Traffic, Right Lane Exit Only Ahead, No Passing Zone           | W4-1,2,3,5,5P,6; W6-3; W9-1,2,7; W14-3               |
|                            | Intersections                   | 2C.46       | Cross Road, Side Road, T, Y, Circular Intersection, Side Roads                                                      | W2-1,2,3,4,5,6,7,8; W16-12P,17P                      |
|                            |                                 | 2C.47       | Large Arrow (two directions)                                                                                        | W1-7                                                 |
|                            |                                 | 2C.48       | Oncoming Extended Green                                                                                             | W25-1,2                                              |
|                            | Vehicular Traffic               | 2C.49       | Truck Crossing, Truck (symbol), Emergency Vehicle, Tractor, Bicycle, Golf Cart, Horse-Drawn Vehicle, Trail Crossing | W8-6; W11-1,5,5a,8,10,11,12P,14,15,15P,15a; W16-13P  |
|                            | Non-Vehicular                   | 2C.50,51    | Pedestrian, Deer, Cattle, Snowmobile, Equestrian, Wheelchair, Large Animals, Playground                             | W11-2,3,4,6,7,9,16,17,18,19,20,21,22; W15-1; W16-13P |
|                            | New                             | 2C.52       | New Traffic Pattern Ahead                                                                                           | W23-2                                                |
| Other Supplemental Plaques | Location                        | 2C.53       | Downward Diagonal Arrow, Ahead                                                                                      | W16-7P,9P                                            |
|                            | HOV                             | 2C.53       | High-Occupancy Vehicle                                                                                              | W16-11P                                              |
|                            | Distance                        | 2C.55       | XX Feet, XX Miles, Next XX Feet, Next XX Miles                                                                      | W7-3aP; W16-2P,2aP,3P,3aP,4P                         |
|                            | Arrow                           | 2C.56       | Advance Arrow, Directional Arrow                                                                                    | W16-5P,6P                                            |
|                            | Street Name Plaque              | 2C.58       | Advance Street Name                                                                                                 | W16-8P,8aP                                           |
|                            | Intersection                    | 2C.59       | Cross Traffic Does Not Stop                                                                                         | W4-4P,4aP,4bP                                        |
|                            | Share The Road                  | 2C.60       | Share The Road                                                                                                      | W16-1P                                               |
|                            | Photo Enforced                  | 2C.61       | Photo Enforced                                                                                                      | W16-10P,10aP                                         |
|                            | New                             | 2C.62       | New                                                                                                                 | W16-15P                                              |

**Table 2C-2. Warning Sign and Plaque Sizes (Sheet 1 of 3)**

| Sign or Plaque                                   | Sign Designation          | Section | Conventional Road |            | Expressway | Freeway | Minimum  | Oversized |
|--------------------------------------------------|---------------------------|---------|-------------------|------------|------------|---------|----------|-----------|
|                                                  |                           |         | Single Lane       | Multi-Lane |            |         |          |           |
| Horizontal Alignment                             | W1-1,2,3,4,5              | 2C.07   | 30 x 30*          | 36 x 36    | 36 x 36    | 36 x 36 | —        | 48 x 48   |
| Combination Horizontal Alignment/Advisory Speed  | W1-1a,2a                  | 2C.10   | 36 x 36           | 36 x 36    | 48 x 48    | 48 x 48 | —        | 48 x 48   |
| One-Direction Large Arrow                        | W1-6                      | 2C.12   | 48 x 24           | 48 x 24    | 60 x 30    | 60 x 30 | —        | 60 x 30   |
| Two-Direction Large Arrow                        | W1-7                      | 2C.47   | 48 x 24           | 48 x 24    | —          | —       | —        | 60 x 30   |
| Chevron Alignment                                | W1-8                      | 2C.09   | 18 x 24           | 18 x 24    | 30 x 36    | 36 x 48 | —        | 24 x 30   |
| Combination Horizontal Alignment/Intersection    | W1-10,10a,10b,10c,10d,10e | 2C.11   | 36 x 36           | 36 x 36    | 36 x 36    | 48 x 48 | —        | —         |
| Hairpin Curve                                    | W1-11                     | 2C.07   | 30 x 30           | 30 x 30    | 36 x 36    | 48 x 48 | —        | 48 x 48   |
| Truck Rollover                                   | W1-13                     | 2C.13   | 36 x 36           | 36 x 36    | 36 x 36    | 48 x 48 | —        | 36 x 36   |
| 270-degree Loop                                  | W1-15                     | 2C.07   | 30 x 30           | 30 x 30    | 36 x 36    | 48 x 48 | —        | 48 x 48   |
| Intersection Warning                             | W2-1,2,3,4,5,6,7,8        | 2C.46   | 30 x 30           | 30 x 30    | 36 x 36    | —       | 24 x 24  | 48 x 48   |
| Advanced Traffic Control                         | W3-1,2,3                  | 2C.36   | 30 x 30           | 30 x 30    | 48 x 48    | 48 x 48 | 30 x 30  | —         |
| Be Prepared to Stop                              | W3-4                      | 2C.36   | 36 x 36           | 36 x 36    | 48 x 48    | 48 x 48 | 30 x 30  | —         |
| Reduced Speed Limit Ahead                        | W3-5                      | 2C.38   | 36 x 36           | 36 x 36    | 48 x 48    | 48 x 48 | —        | —         |
| XX MPH Speed Zone Ahead                          | W3-5a                     | 2C.38   | 36 x 36           | 36 x 36    | 48 x 48    | 48 x 48 | —        | —         |
| Draw Bridge                                      | W3-6                      | 2C.39   | 36 x 36           | 36 x 36    | 48 x 48    | —       | —        | 60 x 60   |
| Ramp Meter Ahead                                 | W3-7                      | 2C.37   | 36 x 36           | 36 x 36    | —          | —       | —        | —         |
| Ramp Metered When Flashing                       | W3-8                      | 2C.37   | 36 x 36           | 36 x 36    | —          | —       | —        | —         |
| Merge                                            | W4-1                      | 2C.40   | 36 x 36           | 36 x 36    | 48 x 48    | 48 x 48 | 30 x 30* | —         |
| Lane Ends                                        | W4-2                      | 2C.42   | 36 x 36           | 36 x 36    | 48 x 48    | 48 x 48 | 30 x 30* | —         |
| Added Lane                                       | W4-3                      | 2C.41   | 36 x 36           | 36 x 36    | 48 x 48    | 48 x 48 | 30 x 30* | —         |
| Cross Traffic Does Not Stop (plaque)             | W4-4P                     | 2C.59   | 24 x 12           | 24 x 12    | 36 x 18    | —       | —        | 48 x 24   |
| Traffic From Left (Right) Does Not Stop (plaque) | W4-4aP                    | 2C.59   | 24 x 12           | 24 x 12    | 36 x 18    | —       | —        | 48 x 24   |
| Oncoming Traffic Does Not Stop (plaque)          | W4-4bP                    | 2C.59   | 24 x 12           | 24 x 12    | 36 x 18    | —       | —        | 48 x 24   |
| Entering Roadway Merge                           | W4-5                      | 2C.40   | 36 x 36           | 36 x 36    | 48 x 48    | —       | —        | —         |
| No Merge Area (plaque)                           | W4-5P                     | 2C.40   | 18 x 24           | 18 x 24    | 24 x 30    | —       | —        | —         |
| Entering Roadway Added Lane                      | W4-6                      | 2C.41   | 36 x 36           | 36 x 36    | 48 x 48    | —       | —        | —         |
| Road Narrows                                     | W5-1                      | 2C.19   | 36 x 36           | 36 x 36    | 48 x 48    | 48 x 48 | 30 x 30* | —         |
| Narrow Bridge                                    | W5-2                      | 2C.20   | 36 x 36           | 36 x 36    | 48 x 48    | 48 x 48 | 30 x 30* | —         |
| One Lane Bridge                                  | W5-3                      | 2C.21   | 36 x 36           | 36 x 36    | 48 x 48    | 48 x 48 | 30 x 30* | —         |
| Divided Highway                                  | W6-1                      | 2C.22   | 36 x 36           | 36 x 36    | 48 x 48    | 48 x 48 | —        | —         |
| Divided Highway Ends                             | W6-2                      | 2C.23   | 36 x 36           | 36 x 36    | 48 x 48    | 48 x 48 | —        | —         |
| Two-Way Traffic                                  | W6-3                      | 2C.44   | 36 x 36           | 36 x 36    | 48 x 48    | 48 x 48 | —        | —         |
| Hill                                             | W7-1                      | 2C.16   | 30 x 30*          | 36 x 36    | 36 x 36    | 36 x 36 | 24 x 24* | 48 x 48   |
| Hill with Grade                                  | W7-1a                     | 2C.16   | 30 x 30*          | 36 x 36    | 36 x 36    | 36 x 36 | 24 x 24* | 48 x 48   |
| Use Low Gear (plaque)                            | W7-2P                     | 2C.57   | 24 x 18           | 24 x 18    | —          | —       | —        | —         |
| Trucks Use Lower Gear (plaque)                   | W7-2bP                    | 2C.57   | 24 x 18           | 24 x 18    | —          | —       | —        | —         |
| XX% Grade (plaque)                               | W7-3P                     | 2C.57   | 24 x 18           | 24 x 18    | —          | —       | —        | —         |
| Next XX Miles (plaque)                           | W7-3aP                    | 2C.55   | 24 x 18           | 24 x 18    | —          | —       | —        | —         |
| XX% Grade, XX Miles (plaque)                     | W7-3bP                    | 2C.57   | 24 x 18           | 24 x 18    | —          | —       | —        | —         |
| Runaway Truck Ramp XX Miles                      | W7-4                      | 2C.17   | 78 x 48           | 78 x 48    | 78 x 48    | 78 x 48 | —        | —         |
| Runaway Truck Ramp (with arrow)                  | W7-4b                     | 2C.17   | 78 x 60           | 78 x 60    | 78 x 60    | 78 x 60 | —        | —         |
| Truck Escape Ramp                                | W7-4c                     | 2C.17   | 78 x 60           | 78 x 60    | 78 x 60    | 78 x 60 | —        | —         |
| Sand, Gravel, Paved (plaques)                    | W7-4dP, 4eP, 4fP          | 2C.17   | 24 x 12           | 24 x 12    | 24 x 12    | 24 x 12 | —        | —         |
| Hill Blocks View                                 | W7-6                      | 2C.18   | 30 x 30*          | 36 x 36    | 36 x 36    | —       | —        | 48 x 48   |
| Bump or Dip                                      | W8-1,2                    | 2C.28   | 30 x 30*          | 36 x 36    | 36 x 36    | 48 x 48 | 24 x 24* | 48 x 48   |

**Table 2C-2. Warning Sign and Plaque Sizes (Sheet 2 of 3)**

| Sign or Plaque                                               | Sign Designation             | Section | Conventional Road |            | Expressway | Freeway  | Minimum  | Oversized |
|--------------------------------------------------------------|------------------------------|---------|-------------------|------------|------------|----------|----------|-----------|
|                                                              |                              |         | Single Lane       | Multi-Lane |            |          |          |           |
| Pavement Ends                                                | W8-3                         | 2C.30   | 36 x 36           | 36 x 36    | 48 x 48    | —        | 30 x 30* | —         |
| Soft Shoulder                                                | W8-4                         | 2C.31   | 36 x 36           | 36 x 36    | 48 x 48    | 48 x 48  | 24 x 24* | 48 x 48   |
| Slippery When Wet                                            | W8-5                         | 2C.32   | 30 x 30*          | 36 x 36    | 36 x 36    | 48 x 48  | 24 x 24* | 48 x 48   |
| Road Condition (plaques)                                     | W8-5P,5bP,5cP                | 2C.32   | 24 x 18           | 24 x 18    | 30 x 24    | 36 x 30  | —        | 36 x 30   |
| Ice                                                          | W8-5aP                       | 2C.32   | 24 x 12           | 24 x 12    | 30 x 18    | 30 x 18  | —        | —         |
| Truck Crossing                                               | W8-6                         | 2C.49   | 36 x 36           | 36 x 36    | 36 x 36    | 48 x 48  | 24 x 24* | 48 x 48   |
| Loose Gravel                                                 | W8-7                         | 2C.32   | 36 x 36           | 36 x 36    | 36 x 36    | —        | 24 x 24* | 48 x 48   |
| Rough Road                                                   | W8-8                         | 2C.32   | 36 x 36           | 36 x 36    | 36 x 36    | 48 x 48  | 24 x 24* | 48 x 48   |
| Low Shoulder                                                 | W8-9                         | 2C.31   | 36 x 36           | 36 x 36    | 36 x 36    | 48 x 48  | 24 x 24* | 48 x 48   |
| Uneven Lanes                                                 | W8-11                        | 2C.32   | 36 x 36           | 36 x 36    | 36 x 36    | 48 x 48  | —        | 48 x 48   |
| No Center Line                                               | W8-12                        | 2C.34   | 36 x 36           | 36 x 36    | 36 x 36    | 48 x 48  | —        | —         |
| Bridge Ices Before Road                                      | W8-13                        | 2C.32   | 36 x 36           | 36 x 36    | 36 x 36    | 48 x 48  | 24 x 24* | 48 x 48   |
| Fallen Rocks                                                 | W8-14                        | 2C.32   | 30 x 30*          | 36 x 36    | 36 x 36    | 48 x 48  | 24 x 24* | 48 x 48   |
| Grooved Pavement                                             | W8-15                        | 2C.33   | 30 x 30*          | 36 x 36    | 36 x 36    | 48 x 48  | 24 x 24* | 48 x 48   |
| Motorcycle (plaque)                                          | W8-15P                       | 2C.33   | 24 x 18           | 24 x 18    | 30 x 24    | 36 x 30  | —        | 36 x 30   |
| Metal Bridge Deck                                            | W8-16                        | 2C.33   | 30 x 30*          | 36 x 36    | 36 x 36    | 48 x 48  | 24 x 24* | 48 x 48   |
| Shoulder Drop Off (symbol)                                   | W8-17                        | 2C.31   | 30 x 30*          | 36 x 36    | 36 x 36    | 48 x 48  | 24 x 24* | 48 x 48   |
| Shoulder Drop-Off (plaque)                                   | W8-17P                       | 2C.31   | 24 x 18           | 24 x 18    | 30 x 24    | 36 x 30  | —        | 36 x 30   |
| Road May Flood                                               | W8-18                        | 2C.35   | 36 x 36           | 36 x 36    | 36 x 36    | 48 x 48  | 24 x 24* | 48 x 48   |
| Flood Gauge                                                  | W8-19                        | 2C.35   | 12 x 72           | 12 x 72    | —          | —        | —        | —         |
| Gusty Winds Area                                             | W8-21                        | 2C.35   | 36 x 36           | 36 x 36    | 36 x 36    | 48 x 48  | 24 x 24* | 48 x 48   |
| Fog Area                                                     | W8-22                        | 2C.35   | 36 x 36           | 36 x 36    | 36 x 36    | 48 x 48  | 24 x 24* | 48 x 48   |
| No Shoulder                                                  | W8-23                        | 2C.31   | 36 x 36           | 36 x 36    | 36 x 36    | 48 x 48  | 24 x 24* | 48 x 48   |
| Shoulder Ends                                                | W8-25                        | 2C.31   | 30 x 30*          | 36 x 36    | 36 x 36    | 48 x 48  | 24 x 24* | 48 x 48   |
| Left (Right) Lane Ends                                       | W9-1                         | 2C.42   | 36 x 36           | 36 x 36    | 36 x 36    | 48 x 48  | 30 x 30* | 48 x 48   |
| Lane Ends Merge Left (Right)                                 | W9-2                         | 2C.42   | 36 x 36           | 36 x 36    | 36 x 36    | 48 x 48  | 30 x 30* | 48 x 48   |
| Right (Left) Lane Exit Only Ahead                            | W9-7                         | 2C.43   | 132 x 72          | 132 x 72   | 132 x 72   | 132 x 72 | —        | —         |
| Bicycle                                                      | W11-1                        | 2C.49   | 30 x 30           | 30 x 30    | 36 x 36    | —        | 24 x 24* | 48 x 48   |
| Pedestrian                                                   | W11-2                        | 2C.50   | 30 x 30*          | 36 x 36    | 36 x 36    | —        | 24 x 24* | 48 x 48   |
| Large Animals                                                | W11-3,4,16,17,18,19,20,21,22 | 2C.50   | 30 x 30*          | 36 x 36    | 36 x 36    | —        | 24 x 24* | 48 x 48   |
| Farm Vehicle                                                 | W11-5,5a                     | 2C.49   | 30 x 30*          | 36 x 36    | 36 x 36    | —        | 24 x 24* | 48 x 48   |
| Snowmobile                                                   | W11-6                        | 2C.50   | 30 x 30*          | 36 x 36    | 36 x 36    | —        | 24 x 24* | 48 x 48   |
| Equestrian                                                   | W11-7                        | 2C.50   | 30 x 30*          | 36 x 36    | 36 x 36    | —        | 24 x 24* | 48 x 48   |
| Emergency Vehicle                                            | W11-8                        | 2C.49   | 30 x 30*          | 36 x 36    | 36 x 36    | —        | 24 x 24* | 48 x 48   |
| Handicapped                                                  | W11-9                        | 2C.50   | 30 x 30*          | 36 x 36    | 36 x 36    | —        | —        | 48 x 48   |
| Truck                                                        | W11-10                       | 2C.49   | 30 x 30*          | 36 x 36    | 36 x 36    | —        | 24 x 24* | 48 x 48   |
| Golf Cart                                                    | W11-11                       | 2C.49   | 30 x 30*          | 36 x 36    | 36 x 36    | —        | 24 x 24* | 48 x 48   |
| Emergency Signal Ahead (plaque)                              | W11-12P                      | 2C.49   | 36 x 30           | 36 x 30    | 36 x 30    | —        | —        | —         |
| Horse-Drawn Vehicle                                          | W11-14                       | 2C.49   | 30 x 30*          | 36 x 36    | 36 x 36    | —        | 24 x 24* | 48 x 48   |
| Bicycle / Pedestrian                                         | W11-15                       | 2C.49   | 30 x 30*          | 36 x 36    | 36 x 36    | —        | 24 x 24* | 48 x 48   |
| Trail Crossing                                               | W11-15a                      | 2C.49   | 30 x 30*          | 36 x 36    | 36 x 36    | —        | 24 x 24* | 48 x 48   |
| Trail X-ing (plaque)                                         | W11-15P                      | 2C.49   | 24 x 18           | 24 x 18    | 30 x 24    | —        | —        | 36 x 30   |
| Double Arrow                                                 | W12-1                        | 2C.25   | 30 x 30*          | 36 x 36    | 36 x 36    | —        | —        | —         |
| Low Clearance (with arrows)                                  | W12-2                        | 2C.27   | 36 x 36           | 36 x 36    | 48 x 48    | 48 x 48  | 30 x 30* | —         |
| Low Clearance                                                | W12-2a                       | 2C.27   | 78 x 24           | 78 x 24    | —          | —        | —        | —         |
| Advisory Speed (plaque)                                      | W13-1P                       | 2C.08   | 18 x 18           | 18 x 18    | 24 x 24    | 30 x 30  | —        | 30 x 30   |
| Advisory Exit or Ramp Speed                                  | W13-2,3                      | 2C.14   | 24 x 30           | 24 x 30    | 36 x 48    | 36 x 48  | —        | 48 x 60   |
| Combination Horizontal Alignment/Advisory Exit or Ramp Speed | W13-6,7                      | 2C.15   | 24 x 42           | 24 x 42    | 36 x 60    | 36 x 60  | —        | 48 x 84   |
| Dead End, No Outlet                                          | W14-1,2                      | 2C.26   | 30 x 30*          | 36 x 36    | 36 x 36    | —        | 24 x 24* | 48 x 48   |

**Table 2C-2. Warning Sign and Plaque Sizes (Sheet 3 of 3)**

| Sign or Plaque                      | Sign Designation | Section | Conventional Road |              | Expressway | Freeway  | Minimum      | Oversized    |
|-------------------------------------|------------------|---------|-------------------|--------------|------------|----------|--------------|--------------|
|                                     |                  |         | Single Lane       | Multi-Lane   |            |          |              |              |
| Dead End, No Outlet (with arrow)    | W14-1a,2a        | 2C.26   | 36 x 8            | 36 x 8       | —          | —        | —            | —            |
| No Passing Zone (pennant)           | W14-3            | 2C.45   | 48 x 48 x 36      | 48 x 48 x 36 | —          | —        | 40 x 40 x 30 | 64 x 64 x 48 |
| Playground                          | W15-1            | 2C.51   | 30 x 30*          | 36 x 36      | 36 x 36    | —        | 24 x 24*     | 48 x 48      |
| Share the Road (plaque)             | W16-1P           | 2C.60   | 18 x 24           | 18 x 24      | 24 x 30    | —        | —            | 24 x 30      |
| XX Feet                             | W16-2P           | 2C.55   | 24 x 18           | 24 x 18      | —          | —        | —            | 30 x 24      |
| XX Ft                               | W16-2aP          | 2C.55   | 24 x 12           | 24 x 12      | —          | —        | —            | 30 x 18      |
| XX Miles (2-line plaque)            | W16-3P           | 2C.55   | 30 x 24           | 30 x 24      | —          | —        | —            | —            |
| XX Miles (1-line plaque)            | W16-3aP          | 2C.55   | 30 x 12           | 30 x 12      | —          | —        | —            | —            |
| Next XX Feet (plaque)               | W16-4P           | 2C.55   | 30 x 24           | 30 x 24      | —          | —        | —            | —            |
| Supplemental Arrow (plaque)         | W16-5P,6P        | 2C.56   | 24 x 18           | 24 x 18      | —          | —        | —            | —            |
| Downward Diagonal Arrow (plaque)    | W16-7P           | 2C.50   | 24 x 12           | 24 x 12      | —          | —        | —            | 30 x 18      |
| Advance Street Name (1-line plaque) | W16-8P           | 2C.58   | Varies x 8        | Varies x 8   | —          | —        | —            | —            |
| Advance Street Name (2-line plaque) | W16-8aP          | 2C.58   | Varies x 15       | Varies x 15  | —          | —        | —            | —            |
| Ahead (plaque)                      | W16-9P           | 2C.50   | 24 x 12           | 24 x 12      | 30 x 18    | —        | —            | —            |
| Photo Enforced (symbol plaque)      | W16-10P          | 2C.61   | 24 x 12           | 24 x 12      | 36 x 18    | —        | —            | 48 x 24      |
| Photo Enforced (plaque)             | W16-10aP         | 2C.61   | 24 x 18           | 24 x 18      | 36 x 30    | —        | —            | 48 x 36      |
| HOV (plaque)                        | W16-11P          | 2G.09   | 24 x 12           | 24 x 12      | 30 x 18    | —        | —            | 30 x 18      |
| Traffic Circle (plaque)             | W16-12P          | 2C.46   | 24 x 18           | 24 x 18      | —          | —        | —            | —            |
| When Flashing (plaque)              | W16-13P          | 2C.50   | 24 x 18           | 24 x 18      | —          | —        | —            | —            |
| New (plaque)                        | W16-15P          | 2C.62   | 24 x 12           | 24 x 12      | —          | —        | —            | —            |
| Roundabout (plaque)                 | W16-17P          | 2C.46   | 24 x 12           | 24 x 12      | —          | —        | —            | —            |
| NOTICE                              | W16-18P          | 2A.15   | 24 x 12           | 24 x 12      | —          | —        | —            | —            |
| Speed Hump                          | W17-1            | 2C.29   | 30 x 30*          | 36 x 36      | —          | —        | 24 x 24*     | 48 x 48      |
| Freeway Ends XX Miles               | W19-1            | 2C.24   | —                 | —            | —          | 144 x 48 | —            | —            |
| Expressway Ends XX Miles            | W19-2            | 2C.24   | —                 | —            | 144 x 48   | —        | —            | —            |
| Freeway Ends                        | W19-3            | 2C.24   | —                 | —            | —          | 48 x 48  | —            | —            |
| Expressway Ends                     | W19-4            | 2C.24   | —                 | —            | 48 x 48    | —        | —            | —            |
| All Traffic Must Exit               | W19-5            | 2C.24   | —                 | —            | 90 x 48    | 90 x 48  | —            | —            |
| New Traffic Pattern Ahead           | W23-2            | 2C.52   | 36 x 36           | 36 x 36      | —          | —        | —            | —            |
| Traffic Signal Extended Green       | W25-1,2          | 2C.48   | 24 x 30           | 24 x 30      | —          | —        | —            | —            |

\* The minimum size required for diamond-shaped warning signs facing traffic on multi-lane conventional roads shall be 36 x 36 per Section 2C.04

Notes: 1. Larger signs may be used when appropriate  
2. Dimensions in inches are shown as width x height

Support:

- 02 Section 2A.11 contains information regarding the applicability of the various columns in Table 2C-2.

**Standard:**

- 03 Except as provided in Paragraph 5, the minimum size for all diamond-shaped warning signs facing traffic on a multi-lane conventional road where the posted speed limit is higher than 35 mph shall be 36 x 36 inches.

- 04 The minimum size for supplemental warning plaques that are not included in Table 2C-2 shall be as shown in Table 2C-3.

Option:

- 05 If a diamond-shaped warning sign is placed on the left-hand side of a multi-lane roadway to supplement the installation of the same warning sign on the right-hand side of the roadway, the minimum size identified in the Single Lane column in Table 2C-2 may be used.

**Table 2C-3. Minimum Size of Supplemental Warning Plaques**

| Size of Warning Sign | Size of Supplemental Plaque |         |         |         |
|----------------------|-----------------------------|---------|---------|---------|
|                      | Rectangular                 |         |         | Square  |
|                      | 1 Line                      | 2 Lines | Arrow   |         |
| 24 x 24              | 24 x 12                     | 24 x 18 | 24 x 12 | 18 x 18 |
| 30 x 30              |                             |         |         |         |
| 36 x 36              | 30 x 18                     | 30 x 24 | 30 x 18 | 24 x 24 |
| 48 x 48              |                             |         |         |         |

Notes: 1. Larger supplemental plaques may be used when appropriate  
2. Dimensions in inches are shown as width x height

**Table 2C-4. Guidelines for Advance Placement of Warning Signs**

| Posted or 85th-Percentile Speed | Advance Placement Distance <sup>1</sup>                                      |                                                                                |                     |                     |                     |                     |                     |                     |                     |
|---------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
|                                 | Condition A: Speed reduction and lane changing in heavy traffic <sup>2</sup> | Condition B: Deceleration to the listed advisory speed (mph) for the condition |                     |                     |                     |                     |                     |                     |                     |
|                                 |                                                                              | 0 <sup>3</sup>                                                                 | 10 <sup>4</sup>     | 20 <sup>4</sup>     | 30 <sup>4</sup>     | 40 <sup>4</sup>     | 50 <sup>4</sup>     | 60 <sup>4</sup>     | 70 <sup>4</sup>     |
| 20 mph                          | 225 ft                                                                       | 100 ft <sup>6</sup>                                                            | N/A <sup>5</sup>    | —                   | —                   | —                   | —                   | —                   | —                   |
| 25 mph                          | 325 ft                                                                       | 100 ft <sup>6</sup>                                                            | N/A <sup>5</sup>    | N/A <sup>5</sup>    | —                   | —                   | —                   | —                   | —                   |
| 30 mph                          | 460 ft                                                                       | 100 ft <sup>6</sup>                                                            | N/A <sup>5</sup>    | N/A <sup>5</sup>    | —                   | —                   | —                   | —                   | —                   |
| 35 mph                          | 565 ft                                                                       | 100 ft <sup>6</sup>                                                            | N/A <sup>5</sup>    | N/A <sup>5</sup>    | N/A <sup>5</sup>    | —                   | —                   | —                   | —                   |
| 40 mph                          | 670 ft                                                                       | 125 ft                                                                         | 100 ft <sup>6</sup> | 100 ft <sup>6</sup> | N/A <sup>5</sup>    | —                   | —                   | —                   | —                   |
| 45 mph                          | 775 ft                                                                       | 175 ft                                                                         | 125 ft              | 100 ft <sup>6</sup> | 100 ft <sup>6</sup> | N/A <sup>5</sup>    | —                   | —                   | —                   |
| 50 mph                          | 885 ft                                                                       | 250 ft                                                                         | 200 ft              | 175 ft              | 125 ft              | 100 ft <sup>6</sup> | —                   | —                   | —                   |
| 55 mph                          | 990 ft                                                                       | 325 ft                                                                         | 275 ft              | 225 ft              | 200 ft              | 125 ft              | N/A <sup>5</sup>    | —                   | —                   |
| 60 mph                          | 1,100 ft                                                                     | 400 ft                                                                         | 350 ft              | 325 ft              | 275 ft              | 200 ft              | 100 ft <sup>6</sup> | —                   | —                   |
| 65 mph                          | 1,200 ft                                                                     | 475 ft                                                                         | 450 ft              | 400 ft              | 350 ft              | 275 ft              | 200 ft              | 100 ft <sup>6</sup> | —                   |
| 70 mph                          | 1,250 ft                                                                     | 550 ft                                                                         | 525 ft              | 500 ft              | 450 ft              | 375 ft              | 275 ft              | 150 ft              | —                   |
| 75 mph                          | 1,350 ft                                                                     | 650 ft                                                                         | 625 ft              | 600 ft              | 550 ft              | 475 ft              | 375 ft              | 250 ft              | 100 ft <sup>6</sup> |

<sup>1</sup> The distances are adjusted for a sign legibility distance of 180 feet for Condition A. The distances for Condition B have been adjusted for a sign legibility distance of 250 feet, which is appropriate for an alignment warning symbol sign. For Conditions A and B, warning signs with less than 6-inch legend or more than four words, a minimum of 100 feet should be added to the advance placement distance to provide adequate legibility of the warning sign.

<sup>2</sup> Typical conditions are locations where the road user must use extra time to adjust speed and change lanes in heavy traffic because of a complex driving situation. Typical signs are Merge and Right Lane Ends. The distances are determined by providing the driver a PRT of 14.0 to 14.5 seconds for vehicle maneuvers (2005 AASHTO Policy, Exhibit 3-3, Decision Sight Distance, Avoidance Maneuver E) minus the legibility distance of 180 feet for the appropriate sign.

<sup>3</sup> Typical condition is the warning of a potential stop situation. Typical signs are Stop Ahead, Yield Ahead, Signal Ahead, and Intersection Warning signs. The distances are based on the 2005 AASHTO Policy, Exhibit 3-1, Stopping Sight Distance, providing a PRT of 2.5 seconds, a deceleration rate of 11.2 feet/second<sup>2</sup>, minus the sign legibility distance of 180 feet.

<sup>4</sup> Typical conditions are locations where the road user must decrease speed to maneuver through the warned condition. Typical signs are Turn, Curve, Reverse Turn, or Reverse Curve. The distance is determined by providing a 2.5 second PRT, a vehicle deceleration rate of 10 feet/second<sup>2</sup>, minus the sign legibility distance of 250 feet.

<sup>5</sup> No suggested distances are provided for these speeds, as the placement location is dependent on site conditions and other signing. An alignment warning sign may be placed anywhere from the point of curvature up to 100 feet in advance of the curve. However, the alignment warning sign should be installed in advance of the curve and at least 100 feet from any other signs.

<sup>6</sup> The minimum advance placement distance is listed as 100 feet to provide adequate spacing between signs.

**Table 2C-5. Horizontal Alignment Sign Selection**

| Type of Horizontal Alignment Sign                                                                                                                                                                       | Difference Between Speed Limit and Advisory Speed |             |             |          |                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-------------|-------------|----------|----------------|
|                                                                                                                                                                                                         | 5 mph                                             | 10 mph      | 15 mph      | 20 mph   | 25 mph or more |
| Turn (W1-1), Curve (W1-2), Reverse Turn (W1-3), Reverse Curve (W1-4), Winding Road (W1-5), and Combination Horizontal Alignment/Intersection (W10-1) (see Section 2C.07 to determine which sign to use) | Recommended                                       | Required    | Required    | Required | Required       |
| Advisory Speed Plaque (W13-1P)                                                                                                                                                                          | Recommended                                       | Required    | Required    | Required | Required       |
| Chevrons (W1-8) and/or One Direction Large Arrow (W1-6)                                                                                                                                                 | Optional                                          | Recommended | Required    | Required | Required       |
| Exit Speed (W13-2) and Ramp Speed (W13-3) on exit ramp                                                                                                                                                  | Optional                                          | Optional    | Recommended | Required | Required       |

Note: Required means that the sign and/or plaque shall be used, recommended means that the sign and/or plaque should be used, and optional means that the sign and/or plaque may be used.

See Section 2C.06 for roadways with less than 1,000 ADT.

**Table 2C-6. Typical Spacing of Chevron Alignment Signs on Horizontal Curves**

| Advisory Speed   | Curve Radius         | Sign Spacing |
|------------------|----------------------|--------------|
| 15 mph or less   | Less than 200 feet   | 40 feet      |
| 20 to 30 mph     | 200 to 400 feet      | 80 feet      |
| 35 to 45 mph     | 401 to 700 feet      | 120 feet     |
| 50 to 60 mph     | 701 to 1,250 feet    | 160 feet     |
| More than 60 mph | More than 1,250 feet | 200 feet     |

Note: The relationship between the curve radius and the advisory speed shown in this table should not be used to determine the advisory speed.