

2019 Changes to the 2011 MMUTCD December 2019

The Option language for the Bicycles May Use Full Lane (R4-11) sign has been reinstated into the 2011 MMUTCD in Section 9B.06 along the sign being added to Table 9B-1 (Sheet 1 of 2) and Figure 9B-2. The Support statement has been revised to a reference to Michigan Compiled Law regarding bicycle lane use and motorists passing bicycles.

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**Table 9B-1. Bicycle Facility Sign and Plaque Minimum Sizes (Sheet 1 of 2)**

| Sign or Plaque | Sign Designation | Section | Shared-Use Path | Roadway |
|--|------------------|-----------------------|-----------------|--------------|
| Stop | R1-1 | 2B.05, 9B.03 | 18 x 18 | 30 x 30 |
| Yield | R1-2 | 2B.08, 9B.03 | 18 x 18 x 18 | 30 x 30 x 30 |
| Bike Lane | R3-17 | 9B.04 | — | 24 x 18 |
| Bike Lane (plaques) | R3-17aP, R3-17bP | 9B.04 | — | 24 x 8 |
| Movement Restriction | R4-1,2,3,7,16 | 2B.28,29,30,32; 9B.14 | 12 x 18 | 18 x 24 |
| Begin Right Turn Lane Yield to Bikes | R4-4 | 9B.05 | — | 36 x 30 |
| Bicycles May Use Full Lane | R4-11 | 9B.06 | — | 30 x 30 |
| Bicycle Wrong Way | R5-1b | 9B.07 | 12 x 18 | 12 x 18 |
| No Motor Vehicles | R5-3 | 9B.08 | 24 x 24 | 24 x 24 |
| No Bicycles | R5-6 | 9B.09 | 18 x 18 | 24 x 24 |
| No Parking Bike Lane | R7-9,9a | 9B.10 | — | 12 x 18 |
| No Pedestrians | R9-3 | 9B.09 | 18 x 18 | 18 x 18 |
| Ride With Traffic (plaque) | R9-3cP | 9B.07 | 12 x 12 | 12 x 12 |
| Bicycle Regulatory | R9-5,6 | 9B.11 | 12 x 18 | 12 x 18 |
| Shared-Use Path Restriction | R9-7 | 9B.12 | 12 x 18 | — |
| No Skaters | R9-13 | 9B.09 | 18 x 18 | 18 x 18 |
| No Equestrians | R9-14 | 9B.09 | 18 x 18 | 18 x 18 |
| Push Button for Green Light | R10-4 | 9B.11 | 9 x 12 | 9 x 12 |
| To Request Green Wait on Symbol | R10-22 | 9B.13 | 12 x 18 | 12 x 18 |
| Bike Push Button for Green Light | R10-24 | 9B.11 | 9 x 15 | 9 x 15 |
| Push Button to Turn On Warning Lights | R10-25 | 9B.11 | 9 x 12 | 9 x 12 |
| Bike Push Button for Green Light (arrow) | R10-26 | 9B.11 | 9 x 15 | 9 x 15 |
| Grade Crossing (Crossbuck) | R15-1 | 8B.03, 9B.14 | 24 x 4.5 | 48 x 9 |
| Number of Tracks (plaque) | R15-2P | 8B.03, 9B.14 | 13.5 x 9 | 27 x 18 |
| Look | R15-8 | 8B.17, 9B.14 | 18 x 9 | 36 x 18 |
| Horizontal Alignment | W1-1,2,3,4,5 | 2C.04, 9B.15 | 18 x 18 | 24 x 24 |
| Arrow Warning | W1-6,7 | 2C.12, 2C.47, 9B.15 | 24 x 12 | 36 x 18 |
| Intersection Warning | W2-1,2,3,4,5 | 2C.46, 9B.16 | 18 x 18 | 24 x 24 |
| Stop, Yield, Signal Ahead | W3-1,2,3 | 2C.36, 9B.19 | 18 x 18 | 30 x 30 |
| Narrow Bridge | W5-2 | 2C.20, 9B.19 | 18 x 18 | 30 x 30 |
| Path Narrows | W5-4a | 9B.19 | 18 x 18 | — |
| Hill | W7-5 | 9B.19 | 18 x 18 | 30 x 30 |
| Bump or Dip | W8-1,2 | 2C.28, 9B.17 | 18 x 18 | 24 x 24 |
| Pavement Ends | W8-3 | 2C.30, 9B.17 | 18 x 18 | 30 x 30 |
| Bicycle Surface Condition | W8-10 | 9B.17 | 18 x 18 | 30 x 30 |
| Slippery When Wet (plaque) | W8-10P | 9B.17 | 12 x 9 | 12 x 9 |
| Grade Crossing Advance Warning | W10-1 | 8B.06, 9B.19 | 24 Dia. | 36 Dia. |
| No Train Horn (plaque) | W10-9P | 8B.21, 9B.19 | 18 x 12 | 30 x 24 |
| Skewed Crossing | W10-12 | 8B.25, 9B.19 | 18 x 18 | 36 x 36 |
| Bicycle Warning | W11-1 | 9B.18 | 18 x 18 | 24 x 24 |
| Pedestrian Crossing | W11-2 | 2C.50, 9B.19 | 18 x 18 | 24 x 24 |
| Combination Bike and Ped Crossing | W11-15 | 9B.18 | 18 x 18 | 30 x 30 |
| Trail Crossing (plaque) | W11-15P | 9B.18 | 18 x 12 | 24 x 18 |
| Low Clearance | W12-2 | 2C.27, 9B.19 | 18 x 18 | 30 x 30 |
| Playground | W15-1 | 2C.51, 9B.19 | 18 x 18 | 24 x 24 |
| Share the Road (plaque) | W16-1P | 2C.60, 9B.19 | — | 18 x 24 |

Table 9B-1. Bicycle Facility Sign and Plaque Minimum Sizes (Sheet 2 of 2)

| Sign or Plaque | Sign Designation | Section | Shared-Use Path | Roadway |
|---|--|--------------|-----------------|-------------|
| XX Feet (plaque) | W16-2P | 2C.55, 9B.18 | 18 x 12 | 24 x 18 |
| XX Ft (plaque) | W16-2aP | 2C.55, 9B.18 | 18 x 9 | 24 x 12 |
| Diagonal Arrow (plaque) | W16-7P | 9B.18 | — | 24 x 12 |
| Ahead (plaque) | W16-9P | 9B.18 | — | 24 x 12 |
| Destination (1 line) | D1-1, D1-1a | 2D.37, 9B.20 | varies x 6 | varies x 18 |
| Bicycle Destination (1 line) | D1-1b, D1-1c | 9B.20 | varies x 6 | varies x 6 |
| Destination (2 lines) | D1-2, D1-2a | 2D.37, 9B.20 | varies x 12 | varies x 30 |
| Bicycle Destination (2 lines) | D1-2b, D1-2c | 9B.20 | varies x 12 | varies x 12 |
| Destination (3 lines) | D1-3, D1-3a | 2D.37, 9B.20 | varies x 18 | varies x 42 |
| Bicycle Destination (3 lines) | D1-3b, D1-3c | 9B.20 | varies x 18 | varies x 18 |
| Street Name | D3-1 | 2D.43, 9B.20 | varies x 6 | varies x 8 |
| Bicycle Parking Area | D4-3 | 9B.23 | 12 x 18 | 12 x 18 |
| Reference Location (1-digit) | D10-1 | 2H.02, 9B.24 | 6 x 12 | 10 x 18 |
| Intermediate Reference Location (2-digit) | D10-1a | 2H.02, 9B.24 | 6 x 18 | 10 x 27 |
| Reference Location (2-digit) | D10-2 | 2H.02, 9B.24 | 6 x 18 | 10 x 27 |
| Intermediate Reference Location (3-digit) | D10-2a | 2H.02, 9B.24 | 6 x 24 | 10 x 36 |
| Reference Location (3-digit) | D10-3 | 2H.02, 9B.24 | 6 x 24 | 10 x 36 |
| Intermediate Reference Location (4-digit) | D10-3a | 2H.02, 9B.24 | 6 x 30 | 10 x 48 |
| Bike Route | D11-1, D11-1c | 9B.20 | 24 x 18 | 24 x 18 |
| Bicycles Permitted | D11-1a | 9B.25 | 18 x 18 | — |
| Bike Route (plaque) | D11-1bP | 9B.25 | 18 x 6 | — |
| Pedestrians Permitted | D11-2 | 9B.25 | 18 x 18 | — |
| Skaters Permitted | D11-3 | 9B.25 | 18 x 18 | — |
| Equestrians Permitted | D11-4 | 9B.25 | 18 x 18 | — |
| Bicycle Route | M1-8, M1-8a | 9B.21 | 12 x 18 | 18 x 24 |
| U.S. Bicycle Route | M1-9 | 9B.21 | 12 x 18 | 18 x 24 |
| Bicycle Route Auxiliary Signs | M2-1; M3-1,2,3,4; M4-1,1a,2,3,5,6,7,7a,8,14 | 9B.22 | 12 x 6 | 12 x 6 |
| Bicycle Route Arrow Signs | M5-1,2; M6-1,2,3,4,5,6,7 | 9B.22 | 12 x 9 | 12 x 9 |
| Type 3 Object Markers | OM3-L,C,R | 2C.63, 9B.26 | 6 x 18 | 12 x 36 |

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

Guidance:

- 04 Except for size, the design of signs and plaques for bicycle facilities should be identical to that provided in this Manual for signs and plaques for streets and highways.

Support:

- 05 Uniformity in design of bicycle signs and plaques includes shape, color, symbols, arrows, wording, lettering, and illumination or retroreflectorization.

Section 9B.03 **STOP and YIELD Signs (R1-1, R1-2)**

Standard:

- 01 **STOP (R1-1) signs** (see Figure 9B-2) shall be installed on shared-use paths at points where bicyclists are required to stop.
- 02 **YIELD (R1-2) signs** (see Figure 9B-2) shall be installed on shared-use paths at points where bicyclists have an adequate view of conflicting traffic as they approach the sign, and where bicyclists are required to yield the right-of-way to that conflicting traffic.

Figure 9B-2. Regulatory Signs and Plaques for Bicycle Facilities



R1-1



R1-2



R3-17



R3-17aP



R3-17bP



R4-1



R4-2



R4-3



R4-4



R4-7



R4-11



R4-16



R5-1b



R9-3cP



R5-3



R5-6



R7-9



R7-9a



R9-3



R9-5



R9-6



R9-7



R9-13



R9-14



R10-4



R10-22



R10-24



R10-25



R10-26



R15-1



R15-2P



R15-8

Option:

- 03 A 30 x 30-inch STOP sign or a 36 x 36 x 36-inch YIELD sign may be used on shared-use paths for added emphasis.

Guidance:

- 04 *Where conditions require path users, but not roadway users, to stop or yield, the STOP or YIELD sign should be placed or shielded so that it is not readily visible to road users.*
- 05 *When placement of STOP or YIELD signs is considered, priority at a shared-use path/roadway intersection should be assigned with consideration of the following:*
- A. *Relative speeds of shared-use path and roadway users,*
 - B. *Relative volumes of shared-use path and roadway traffic, and*
 - C. *Relative importance of shared-use path and roadway.*
- 06 *Speed should not be the sole factor used to determine priority, as it is sometimes appropriate to give priority to a high-volume shared-use path crossing a low-volume street, or to a regional shared-use path crossing a minor collector street.*
- 07 *When priority is assigned, the least restrictive control that is appropriate should be placed on the lower priority approaches. STOP signs should not be used where YIELD signs would be acceptable.*

Section 9B.04 Bike Lane Signs and Plaques (R3-17, R3-17aP, R3-17bP)**Standard:**

- 01 **The BIKE LANE (R3-17) sign and the R3-17aP and R3-17bP plaques (see Figure 9B-2) shall be used only in conjunction with marked bicycle lanes as described in Section 9C.04.**

Guidance:

- 02 *If used, Bike Lane signs and plaques should be used in advance of the upstream end of the bicycle lane, at the downstream end of the bicycle lane, and at periodic intervals along the bicycle lane as determined by engineering judgment based on prevailing speed of bicycle and other traffic, block length, distances from adjacent intersections, and other considerations.*

Section 9B.05 BEGIN RIGHT TURN LANE YIELD TO BIKES Sign (R4-4)

Option:

- 01 Where motor vehicles entering an exclusive right-turn lane must weave across bicycle traffic in bicycle lanes, the BEGIN RIGHT TURN LANE YIELD TO BIKES (R4-4) sign (see Figure 9B-2) may be used to inform both the motorist and the bicyclist of this weaving maneuver (see Figures 9C-1, 9C-4, and 9C-5).

Guidance:

- 02 *The R4-4 sign should not be used when bicyclists need to move left because of a right-turn lane drop situation.*

 Section 9B.06 Bicycles May Use Full Lane Sign (R4-11)

Option:

- 01 The Bicycles May Use Full Lane (R4-11) sign (see Figure 9B-2) may be used on roadways where no bicycle lanes or adjacent shoulders usable by bicyclists are present and where travel lanes are too narrow for bicyclists and motor vehicles to operate side by side.
- 02 The Bicycles May Use Full Lane sign may be used in locations where it is important to inform road users that bicyclists might occupy the travel lane.
- 03 Section 9C.07 describes a Shared Lane Marking that may be used in addition to or instead of the Bicycles May Use Full Lane sign to inform road users that bicyclists might occupy the travel lane.

Support:

- 04 *See MCL 257.636(6) and 257.660a for more on bicycle lane use and motorists passing bicycles.*

Section 9B.07 Bicycle WRONG WAY Sign and RIDE WITH TRAFFIC Plaque (R5-1b, R9-3cP)

Option:

- 01 The Bicycle WRONG WAY (R5-1b) sign and RIDE WITH TRAFFIC (R9-3cP) plaque (see Figure 9B-2) may be placed facing wrong-way bicycle traffic, such as on the left side of a roadway.
- 02 This sign and plaque may be mounted back-to-back with other signs to minimize visibility to other traffic.