

Approved by NCUTCD Council January 12, 2008

REVIEW OF NPA PUBLISHED JANUARY 2, 2008
VERSION OF MUTCD WITH CHANGES SHOWN IN BLUE AND
STRIKEOUTS SHOWN IN RED

PART 2B APPROVED BY RWSTC 1-11-08, EXCEPT THOSE NOTED AS
TABLED

PART 2B SECTIONS APPROVED BY NCUTCD COUNCIL and REASONS FOR
CHANGE ARE SO NOTED BELOW IN PURPLE

Approved January 12, 2008

Updated 2-3-08 to include "rationale" for Council changes to NPA

TECHNICAL COMMITTEE: NCUTCD Regulatory/Warning Signs Technical
Committee

DATE OF ACTION: (TASK FORCE) 1-8-08, Tom Heydel Chair, Doug Bartlett,
Herman Hill, Scott Kuznicki, Rich Meredith, Mike Moule, Randy McCourt (ITE
Liaison. Revised 1-9-08

RWSTC APPROVAL DATE: 1-11-08

COUNCIL APPROVAL DATE: 1-12-08 for sections so noted.

TOPIC: Part 2B – Review of NPA - MUTCD

AFFECTED PORTIONS OF MUTCD: Part 2B

DISCUSSION:

The NPA for the 2009 MUTCD was published on January 2, 2008 in the Federal
Register. A review of the NPA for Part 2B with comments are noted below.

RECOMMENDATION:

The following is the actual complete text as published by FHWA in the NPA for the
MUTCD. Blue text is new text. Strikeout red is text eliminated. Green highlight are
FHWA editorial comments.

RWSTC comments to the NPA MUTCD are shown in YELLOW HIGHLIGHT.
RWSTC proposed changed MUTCD language is shown in YELLOW HIGHLIGHT
underlined.

Items tabled by RWSTC shown in blue highlight

45 **THE FOLLOWING IS THE NPA TEXT FOR PART 2B AS PUBLISHED**
46 **BY FHWA**

47 **2007 NOTICE OF PROPOSED AMENDMENTS**
48 **MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES**

49 **LIST OF PARTS, CHAPTERS, AND SECTIONS**

50 **CHAPTER 2B. REGULATORY SIGNS**

- 51 **Section 2B.01 Application of Regulatory Signs**
52 **Section 2B.02 Design of Regulatory Signs**
53 **Section 2B.03 Size of Regulatory Signs**
54 **Section 2B.04 Right-of-Way at Intersections**
55 **Section 2B.05 STOP Sign (R1-1) and ALL WAY Plaque (R1-3P)**
56 **Section 2B.06 STOP Sign Applications**
57 **Section 2B.07 Multiway Stop Applications**
58 **Section 2B.08 YIELD Sign (R1-2)**
59 **Section 2B.09 YIELD Sign Applications**
60 **Section 2B.10 STOP Sign or YIELD Sign Placement**
61 **Section 2B.11 Yield Here To Pedestrians Signs and Stop Here For Pedestrians Signs**
62 **(R1-5 Series)**
63 **Section 2B.12 In-Street and Overhead Pedestrian Crossing Signs (R1-6, R1-6a, R1-**
64 **9, and R1-9a)**
65 **Section 2B.13 Speed Limit Sign (R2-1)**
66 **Section 2B.14 Truck Speed Limit Plaque (R2-2P)**
67 **Section 2B.15 Night Speed Limit Plaque (R2-3P)**
68 **Section 2B.16 Minimum Speed Limit Plaque (R2-4P)**
69 **Section 2B.17 FINES HIGHER Plaque (R2-6P)**
70 **Section 2B.18 Movement Prohibition Signs (R3-1 through R3-4, R3-18, and R3-27)**
71 **Section 2B.19 Intersection Lane Control Signs (R3-5 through R3-8)**
72 **Section 2B.20 Mandatory Movement Lane Control Signs (R3-5, R3-5a, R3-7, and**
73 **R3-20)**
74 **Section 2B.21 Optional Movement Lane Control Sign (R3-6)**
75 **Section 2B.22 Advance Intersection Lane Control Signs (R3-8 Series)**
76 **Section 2B.23 RIGHT (LEFT) LANE MUST EXIT Sign (R3-33)**
77 **Section 2B.24 Two-Way Left Turn Only Signs (R3-9a, R3-9b)**
78 **Section 2B.25 Reversible Lane Control Signs (R3-9d, R3-9f through R3-9i)**
79 **Section 2B.26 Regulatory Signs for Preferential Lanes – General**
80 **Section 2B.27 Preferential Lane Vehicle Occupancy Definition Signs (R3-10 Series**
81 **and R3-13 Series)**
82 **Section 2B.28 Preferential Lane Periods of Operation Signs (R3-11 Series and R3-**
83 **14 Series)**
84 **Section 2B.29 Preferential Lane Advance Signs (R3-12, R3-12e, R3-12f, R3-15 R3-**
85 **15a, and R3-15d)**

86 Section 2B.30 Preferential Lane Ends Signs (R3-12a, R3-12b, R3-12c, R3-12d, R3-
87 12g, R3-12h, R3-15b, R3-15c, and R3-15e)
88 Section 2B.31 Regulatory Signs for Toll Plazas
89 Section 2B.32 Regulatory Signs for Managed Lanes and ETC Only Lanes
90 Section 2B.33 Jughandle Signs (R3-23, R3-24, R3-25, and R3-26 Series)
91 Section 2B.34 Do Not Pass Sign (R4-1)
92 Section 2B.35 DO NOT PASS WHEN SOLID LINE IS ON YOUR SIDE Sign (R4-
93 15)
94 Section 2B.36 DO NOT DRIVE ON SHOULDER Sign (R4-17) and DO NOT PASS
95 ON SHOULDER Sign (R4-18)
96 Section 2B.37 PASS WITH CARE Sign (R4-2)
97 Section 2B.38 SLOWER TRAFFIC KEEP RIGHT Sign (R4-3) and KEEP RIGHT
98 EXCEPT TO PASS Sign (R4-16)
99 Section 2B.39 TRUCKS USE RIGHT LANE Sign (R4-5)
100 Section 2B.40 Keep Right and Keep Left Signs (R4-7, R4-8)
101 Section 2B.41 STAY IN LANE Sign (R4-9)
102 Section 2B.42 RUNAWAY VEHICLES ONLY Sign (R4-10)
103 Section 2B.43 Slow Vehicle Turn-Out Signs (R4-12, R4-13, and R4-14)
104 Section 2B.44 DO NOT ENTER Sign (R5-1)
105 Section 2B.45 WRONG WAY Sign (R5-1a)
106 Section 2B.46 Selective Exclusion Signs
107 Section 2B.47 ONE WAY Signs (R6-1, R6-2)
108 Section 2B.48 Wrong-Way Traffic Control at Interchange Ramps
109 Section 2B.49 Divided Highway Crossing Signs (R6-3, R6-3a)
110 Section 2B.50 Roundabout Directional Arrow Signs (R6-4, R6-4a, and R6-4b)
111 Section 2B.51 Roundabout Circulation Plaque (R6-5P)
112 Section 2B.52 Examples of Roundabout Signing
113 Section 2B.53 Parking, Standing, and Stopping Signs (R7 and R8 Series)
114 Section 2B.54 Design of Parking, Standing, and Stopping Signs
115 Section 2B.55 Placement of Parking, Stopping, and Standing Signs
116 Section 2B.56 Emergency Restriction Signs (R8-4, R8-7, R8-8)
117 Section 2B.57 WALK ON LEFT FACING TRAFFIC and No Hitchhiking Signs
118 (R9-1, R9-4, R9-4a)
119 Section 2B.58 Pedestrian Crossing Signs (R9-2, R9-3)
120 Section 2B.59 Traffic Signal Signs (R10-1 through R10-32P)
121 Section 2B.60 Photo Enforced Signs and Plaques (R10-18, R10-19P, R10-19aP)
122 Section 2B.61 Ramp Metering Signs (R10-28 and R10-29)
123 Section 2B.62 KEEP OFF MEDIAN Sign (R11-1)
124 Section 2B.63 ROAD CLOSED Sign (R11-2) and LOCAL TRAFFIC ONLY Signs
125 (R11-3 Series, R11-4)
126 Section 2B.64 Weight Limit Signs (R12-1 through R12-5)
127 Section 2B.65 Weigh Station Signs (R13 Series)
128 Section 2B.66 TRUCK ROUTE Sign (R14-1)
129 Section 2B.67 Hazardous Material Signs (R14-2, R14-3)
130 Section 2B.68 National Network Signs (R14-4, R14-5)
131 Section 2B.69 Headlight Use Signs (R16-5 through R16-12)

132 Section 2B.70 Miscellaneous Regulatory Signs

133

134 CHAPTER 2B. REGULATORY SIGNS

135 Section 2B.01 Application of Regulatory Signs –

136 **Approved by Council 1-12-08**

137 **Standard:**

138 Regulatory signs shall be used to inform road users of selected traffic laws or
139 regulations and indicate the applicability of the legal requirements.

140 Regulatory signs shall be installed at or near where the regulations apply. The signs
141 shall clearly indicate the requirements imposed by the regulations and shall be designed and
142 installed to provide adequate visibility and legibility in order to obtain compliance.

143 Regulatory signs shall be retroreflective or illuminated (see Section 2A.07) to show the
144 same shape and similar color by both day and night, unless specifically stated otherwise in
145 the text discussion of a particular sign or group of signs (see Section 2A.07).

146 The requirements for sign illumination shall not be considered to be satisfied by street,
147 ~~or~~ highway, ~~or strobe~~ lighting.

148 Section 2B.02 Design of Regulatory Signs.

149 **Approved by Council 1-12-08**

150 ~~Support~~ **Standard:**

151 ~~Most~~ Regulatory signs ~~are~~ shall be rectangular, ~~with the longer dimension vertical~~
152 ~~unless specifically designated otherwise. The shapes and colors of regulatory signs are~~
153 ~~listed in Tables 2A-3 and 2A-4, respectively. Exceptions are specifically noted in the~~
154 ~~following Sections. Regulatory signs shall be designed in accordance with the sizes, shapes,~~
155 ~~colors, and legends contained in the “Standard Highway Signs and Markings” book (see~~
156 ~~Section 1A.11).~~

157 Option: these two paragraphs were relocated from Section 2B.54

158 Regulatory word message signs other than those classified and specified in this Manual and
159 the “Standard Highways Signs and Markings” book (see Section 1A.11) may be developed to aid
160 the enforcement of other laws or regulations.

161 Except for symbols on regulatory signs, minor modifications may be made to the design
162 provided that the essential appearance characteristics are met.

163 **Support:**

164 The use of educational plaques to supplement symbol signs is described in Section 2A.12.

165 **Guidance:**

166 Changeable message signs displaying a regulatory message incorporating a prohibitory
167 message that includes a red circle and slash on a static sign should display a red symbol that
168 approximates the same red circle and slash as closely as possible.

169 Section 2B.03 Size of Regulatory Signs

170 **This section 2B.03 tabled by RWSTC until June 2008**

171 **Standard:**

172 Except as noted in Section 2A.11, the sizes for regulatory signs shall be as shown in
173 Table 2B-1.

174 ~~Guidance:~~

~~The Freeway and Expressway sizes should be used for higher speed applications to provide larger signs for increased visibility and recognition.~~

~~Option:~~

~~The Minimum size may be used on low speed roadways where the reduced legend size would be adequate for the regulation or where physical conditions preclude the use of the other sizes.~~

~~The Oversized size may be used for those special applications where speed, volume, or other factors result in conditions where increased emphasis, improved recognition, or increased legibility would be desirable.~~

~~Signs larger than those shown in Table 2B-1 may be used (see Section 2A.11).~~

Support:

Section 2A.11 contains information regarding the applicability of the various columns in Table 2B-1.

Standard:

The minimum sizes for certain regulatory signs facing traffic on multi-lane conventional roads shall be as shown in Table 2B-2.

A minimum size of 900 x 900 mm (36 x 36 in) shall be used for STOP signs that face multi-lane approaches.

Section 2B.04 Right-of-Way at Intersections.

Approved by Council 1-12-08

Support:

The “Uniform Vehicle Code” (see Section 1A.11) establishes the right-of-way rule at intersections having no regulatory traffic control signs such that the driver of a vehicle approaching an intersection must yield the right-of-way to any vehicle or pedestrian already in the intersection. When two vehicles approach an intersection from different streets or highways at approximately the same time, the right-of-way rule requires the driver of the vehicle on the left to yield the right-of-way to the vehicle on the right. The right-of-way can be modified at through streets or highways by placing STOP (R1-1) signs (see Sections 2B.05 through 2B.07) or YIELD (R1-2) signs (see Sections 2B.08 and 2B.09) on one or more approaches.

Guidance:

Engineering judgment should be used to establish intersection control. The following factors should be considered:

- A. Vehicular, bicycle, and pedestrian traffic volumes on all approaches;
- B. Number and angle of approaches;
- C. Approach speeds;
- D. Sight distance available on each approach; and
- C. Reported crash experience.

STOP or YIELD signs should be used at an intersection if ~~engineering judgment indicates that~~ one or more of the following conditions exist: **relocated from Section 2B.05**

- A. An intersection of a less important road with a main road where application of the normal right-of-way rule would not be expected to provide reasonable compliance with the law;
- B. A street entering a designated through highway or street; and/or
- C. An unsignalized intersection in a signalized area. ~~and/or~~

219 ~~D. High speeds, restricted view, or crash records indicate a need for control by the STOP~~
220 ~~sign.~~

221 In addition, the use of STOP or YIELD signs should be considered at the intersection of two
222 minor streets or local roads where the intersection has more than three approaches and where one
223 or more of the following conditions exist:

- 224 A. Approach speeds are above 30 mph on any approach;
- 225 B. The combined vehicular, bicycle, and pedestrian volume entering the intersection from
226 all approaches averages more than 2,000 units per day;
- 227 C. The ability to see conflicting traffic on an approach is not sufficient to allow a road user
228 to stop or yield in compliance with the normal right-of-way rule if such stopping or
229 yielding is necessary; and/or
- 230 D. Crash records indicate that 5 or more crashes that involve the failure to yield the right-of-
231 way at the intersection under the normal right-of-way rule have been reported within a 3-
232 year period, or that 3 or more such crashes have been reported within a 2-year period.

233 STOP or YIELD signs should not be used for speed control. **relocated from Section 2B.05**

234 Once the decision has been made to ~~install two-way stop~~ control an intersection, the decision
235 regarding the appropriate ~~street-to-stop~~ roadway to control should be based on engineering
236 judgment. In most cases, the ~~street~~ roadway carrying the lowest volume of traffic should be
237 ~~stopped~~ controlled. **relocated from Section 2B.05**

238 A STOP or YIELD sign should not be installed on the ~~major street~~ higher volume roadway
239 unless justified by an ~~traffic~~ engineering study. **relocated from Section 2B.05**

240 Support:

241 The following are considerations that might influence the decision regarding the appropriate
242 ~~street~~ roadway upon which to install a STOP or YIELD sign where two ~~streets~~ roadways with
243 relatively equal volumes and/or characteristics intersect: **relocated from Section 2B.05**

- 244 A. ~~Stopping~~ Controlling the direction that conflicts the most with established pedestrian
245 crossing activity or school walking routes;
- 246 B. ~~Stopping~~ Controlling the direction that has obscured vision, dips, or bumps that already
247 require drivers to use lower operating speeds; and
- 248 ~~C. Stopping the direction that has the longest distance of uninterrupted flow approaching the~~
249 ~~intersection; and~~
- 250 C. ~~Stopping~~ Controlling the direction that has the best sight distance from a controlled
251 position to observe conflicting traffic.

252 **Standard:**

253 **Because the potential for conflicting commands could create driver confusion, STOP or**
254 **YIELD signs shall not be ~~installed at intersections where~~ used in conjunction with any**
255 **traffic control signals ~~are installed and operating operation~~, except ~~as noted in Section~~**
256 **~~4D.01~~, in the following cases: **relocated from Section 2B.05****

- 257 A. If the signal indication for an approach is a flashing red at all times;
- 258 B. If a minor street or driveway is located within or adjacent to the area controlled by
259 the traffic control signal, but does not require separate traffic signal control because
260 an extremely low potential for conflict exists; or
- 261 C. If a channelized turn lane is separated from the adjacent travel lanes by an island
262 and the channelized turn lane is not controlled by a traffic control signal.

263 Except as noted in Section 2B.09, STOP signs and YIELD signs shall not be installed on
264 different approaches to the same unsignalized intersection if those approaches conflict with
265 or oppose each other.

266 Portable or part-time STOP or YIELD signs shall not be used except for emergency and
267 temporary traffic control zone purposes. **relocated from Section 2B.05**

268 A portable or part-time (folding) STOP sign that is manually installed and manually
269 retrieved shall not be used during a power outage to control a signalized approach unless
270 the maintaining agency can ensure that the signal indication that will first be displayed
271 upon restoration of power is a flashing red signal indication and that the portable STOP
272 sign will be manually retrieved prior to stop-and-go operation of the traffic control signal.

273 Option:

274 A portable or part-time (folding) STOP sign that is operated automatically such that it only
275 displays the STOP message during a power outage and automatically ceases to display the STOP
276 message upon restoration of power may be used during a power outage to control a signalized
277 approach.

278 Section 2B.04 – Right-of-way at Intersections. This section is written
279 as approved by Council in June 2004 with the exception of the
280 standard and statements related to portable or folding stop signs.

281 **Section ~~2B.04~~ 2B.05 STOP Sign (R1-1) and ALL WAY Plaque (R1-3P)**

282 **Approved by Council 1-12-08**

283

284 **Standard:**

285 When ~~a sign is used to indicate that traffic is~~ it is determined that a full stop is always
286 required ~~to stop on an approach to an intersection,~~ a STOP (R1-1) sign (see Figure 2B-1)
287 shall be used.

288 The STOP sign shall be an octagon with a white legend and border on a red
289 background.

290 Secondary legends shall not be used on STOP sign faces. ~~If appropriate, a supplemental~~
291 ~~plaque (R1-3 or R1-4) shall be used to display a secondary legend. If the number of~~
292 ~~approach legs controlled by STOP signs at an intersection is three or more, the numeral on~~
293 ~~the supplemental plaque, if used, shall correspond to the actual number of legs controlled~~
294 ~~by STOP signs.~~

295 At intersections where all approaches are controlled by STOP signs (see Section 2B.07),
296 an ALL WAY supplemental plaque (R1-3P ~~or R1-4~~) shall be mounted below each STOP
297 sign. ~~Such~~ The ALL WAY plaques (see Figure 2B-1) shall have a white legend and border
298 on a red background. **the 2nd sentence was relocated from the previous paragraph**

299 The ALL WAY plaque shall only be used if all intersection approaches are controlled
300 by STOP signs.

301 Supplemental plaques with legends such as 2-WAY, 3-WAY, 4-WAY, or other numbers
302 of ways shall not be used with STOP signs.

303 Option:

304 ~~The ALL WAY (R1-4) supplemental plaque may be used instead of the 4-WAY (R1-3)~~
305 ~~supplemental plaque.~~

306 **Support:**

307 The use of the CROSS TRAFFIC DOES NOT STOP (W4-4P) plaque (and other plaques
308 with variations of this word message) is described in Section 2C.62.

309 Guidance:

310 Plaques with the appropriate alternative messages of TRAFFIC FROM LEFT (RIGHT)
311 DOES NOT STOP (W4-4aP) or ONCOMING TRAFFIC DOES NOT STOP (W4-4bP) should be
312 used at intersections where STOP signs control all but one approach to the intersection, unless the
313 only non-stopped approach is from a one-way street.

314 Option:

315 An EXCEPT RIGHT TURN (R1-10P) plaque (see Figure 2B-1) may be mounted below the
316 STOP sign if an engineering study determines that a special combination of geometry and traffic
317 volumes is present that makes it possible for right-turning traffic on the approach to be permitted
318 to enter the intersection without stopping.

319 The design and application of Stop Beacons are described in Section 4L.05.

320 **Section ~~2B.05~~ 2B.06 STOP Sign Applications** many paragraphs have been relocated
321 **to the new Section 2B.04**

322 **Approved by Council 1-12-08 with modifications shown in yellow**

323

324 Guidance:

325 ~~STOP signs should be installed in a manner that minimizes the numbers of vehicles having to~~
326 ~~stop.~~ At intersections where a full stop is not necessary at all times, consideration should first be
327 given to using less restrictive measures such as YIELD signs (see Sections 2B.08 and 2B.09).

328 The use of STOP signs on the minor-street approaches should be considered if engineering
329 judgment indicates that a stop is always required because of one or more of the following
330 conditions:

- 331 A. The vehicular traffic volumes on the through street or highway exceed 6,000 vehicles per
332 day;
333 B. A restricted view exists that requires road users **on the minor-street approach** to stop in
334 order to adequately observe conflicting traffic on the through street or highway; and/or
335 C. Crash records indicate that 3 or more crashes that are susceptible to correction by the
336 installation of a STOP sign have been reported within a 12-month period, or that 5 or
337 more such crashes have been reported within a 2-year period. Such crashes include right-
338 angle collisions involving road users on the minor-street approach failing to yield the
339 right-of-way to traffic on the through street or highway.

340 Support:

341 The use of the STOP sign at highway-rail ~~road~~ grade crossings is described in Sections 8B.04
342 and 8B.05. The use of the STOP sign at highway-light rail transit grade crossings is described in
343 Section 10C.04.

344 **Reasons for change in new 2B.06: Eliminates duplication of language in second paragraph of**
345 **guidance.**

346 ~~Section 2B.06 STOP Sign Placement~~ most of the text from this Section has been
347 **incorporated into Section 2B.10**

348 **Approved by Council 1-12-08**

349 ~~Standard:~~

350 ~~The STOP sign shall be installed on the right side of the approach to which it applies.~~
351 ~~When the STOP sign is installed at this required location and the sign visibility is restricted,~~
352 ~~a Stop Ahead sign (see Section 2C.29) shall be installed in advance of the STOP sign.~~

~~The STOP sign shall be located as close as practical to the intersection it regulates, while optimizing its visibility to the road user it is intended to regulate.~~

~~STOP signs and YIELD signs shall not be mounted on the same post.~~

~~Guidance:~~

~~Other than a DO NOT ENTER sign, no sign should be mounted back to back with a STOP sign in a manner that obscures the shape of the STOP sign.~~

~~Support:~~

~~Section 2A.16 contains additional information about separate and combined mounting of other signs with STOP signs.~~

~~Guidance:~~

~~Stop lines, when used to supplement a STOP sign, should be located at the point where the road user should stop (see Section 3B.16).~~

~~If only one STOP sign is installed on an approach, the STOP sign should not be placed on the far side of the intersection.~~

~~Where two roads intersect at an acute angle, the STOP sign should be positioned at an angle, or shielded, so that the legend is out of view of traffic to which it does not apply.~~

~~Where there is a marked crosswalk at the intersection, the STOP sign should be installed in advance of the crosswalk line nearest to the approaching traffic.~~

~~Option:~~

~~At wide-throat intersections or where two or more approach lanes of traffic exist on the signed approach, observance of the stop control may be improved by the installation of an additional STOP sign on the left side of the road and/or the use of a stop line. At channelized intersections, the additional STOP sign may be effectively placed on a channelizing island.~~

~~Support:~~

~~Figure 2A-2 shows examples of some typical placements of STOP signs.~~

Section 2B.07 Multiway Stop Applications

Approved by Council 1-12-08

Support:

Multiway stop control can be useful as a safety measure at intersections if certain traffic conditions exist. Safety concerns associated with multiway stops include pedestrians, bicyclists, and all road users expecting other road users to stop. Multiway stop control is used where the volume of traffic on the intersecting roads is approximately equal.

The restrictions on the use of STOP signs described in Section 2B.04 also apply to multiway stop applications.

Guidance:

The decision to install multiway stop control should be based on an engineering study.

The following criteria should be considered in the engineering study for a multiway STOP sign installation:

A. Where traffic control signals are justified, the multiway stop is an interim measure that can be installed quickly to control traffic while arrangements are being made for the installation of the traffic control signal.

B. ~~A crash problem, as indicated by 5~~ **Five** or more reported crashes in a 12-month period that are susceptible to correction by a multiway stop installation. Such crashes include

- 397 right-~~turn~~ **edited to increase clarity** and left-turn collisions as well as right-angle
398 collisions.
- 399 C. Minimum volumes:
- 400 1. The vehicular volume entering the intersection from the major street approaches
401 (total of both approaches) averages at least 300 vehicles per hour for any 8 hours of
402 an average day; and
 - 403 2. The combined vehicular, pedestrian, and bicycle volume entering the intersection
404 from the minor street approaches (total of both approaches) averages at least 200
405 units per hour for the same 8 hours, with an average delay to minor-street vehicular
406 traffic of at least 30 seconds per vehicle during the highest hour; but
 - 407 3. If the 85th-percentile approach speed of the major-street traffic exceeds 65 km/h or
408 exceeds 40 mph, the minimum vehicular volume warrants are 70 percent of the above
409 values.
- 410 D. Where no single criterion is satisfied, but where Criteria B, C.1, and C.2 are all satisfied
411 to 80 percent of the minimum values. Criterion C.3 is excluded from this condition.

412 Option:

413 Other criteria that may be considered in an engineering study include:

- 414 A. The need to control left-turn conflicts;
- 415 B. The need to control vehicle/pedestrian conflicts near locations that generate high
416 pedestrian volumes;
- 417 C. Locations where a road user, after stopping, cannot see conflicting traffic and is not able
418 to ~~reasonably safely~~ negotiate the intersection unless conflicting cross traffic is also
419 required to stop; and
- 420 D. An intersection of two residential neighborhood collector (through) streets of similar
421 design and operating characteristics where multiway stop control would improve traffic
422 operational characteristics of the intersection.

423 **Section 2B.08 YIELD Sign (R1-2)**

424 **Approved by Council 1-12-08**

425

426 **Standard:**

427 **The YIELD (R1-2) sign (see Figure 2B-1) shall be a downward-pointing equilateral**
428 **triangle with a wide red border and the legend YIELD in red on a white background.**

429 Support:

430 The YIELD sign assigns right-of-way to traffic on certain approaches to an intersection.
431 Vehicles controlled by a YIELD sign need to slow down [to a speed that is reasonable for the](#)
432 [existing conditions](#) or stop when necessary to avoid interfering with conflicting traffic.

433 **Section 2B.09 YIELD Sign Applications**

434 **Approved by Council 1-12-08**

435

436 Option:

437 YIELD signs may be ~~used instead of STOP signs if engineering judgment indicates that one~~
438 ~~or more of the following conditions exist~~ [installed](#):

- 439 A. ~~When the ability to see all potentially conflicting traffic is sufficient to allow a road user~~
440 ~~traveling at the posted speed, the 85th percentile speed, or the statutory speed to pass~~

- 441 ~~through the intersection or to stop in a reasonably safe manner~~ On the approaches to a
442 through street or highway where conditions are such that a stop is not always required.
443 ~~B. If controlling a merge-type movement on the entering roadway where acceleration~~
444 ~~geometry and/or sight distance is not adequate for merging traffic operation.~~
445 B. At the second crossroad of a divided highway, where the median width at the intersection
446 is 9 m (30 ft) or greater. In this case, a STOP or YIELD sign may be installed at the
447 entrance to the first roadway of a divided highway, and a YIELD sign may be installed at
448 the entrance to the second roadway.
449 C. On a channelized turn lane that is separated from the adjacent travel lanes by an island,
450 even if the adjacent lanes at the intersection are controlled by a highway traffic control
451 signal or by a STOP sign.
452 D. At an intersection where a special problem exists and where engineering judgment
453 indicates the problem to be susceptible to correction by the use of the YIELD sign.
454 E. Facing the entering roadway for a merge-type movement if engineering judgment
455 indicates that control is needed because acceleration geometry and/or sight distance is not
456 adequate for merging traffic operation.

457 **Standard:**

458 A YIELD (R1-2) sign shall be used to assign right-of-way at the entrance to a
459 roundabout ~~intersection~~. YIELD signs at roundabouts shall be used to control the
460 approach roadways and shall not be used to control the circulatory roadway.

461 **Section 2B.10 STOP Sign or YIELD Sign Placement** this Section was edited to
462 include the STOP sign provisions from Section 2B.06

463 **Approved by Council 1-12-08**

464 **Standard:**

465 The STOP or YIELD sign shall be installed on the near side of the intersection on the
466 right-hand edited to increase clarity side of the approach to which it applies. ~~YIELD signs~~
467 ~~shall be placed on both the left and right sides of approaches to roundabout intersections~~
468 ~~with more than one lane on the signed approach where raised splitter islands are available~~
469 ~~on the left side of the approach.~~ When the STOP or YIELD sign is installed at this required
470 location and the sign visibility is restricted, a Stop Ahead sign shall be installed in advance
471 of the STOP sign or a Yield Ahead sign (see Section 2C.35) shall be installed in advance of
472 the YIELD sign (~~see Section 2C.35~~).

473 The STOP or YIELD sign shall be located as close as practical to the intersection it
474 regulates, while optimizing its visibility to the road user it is intended to regulate.

475 STOP signs and YIELD signs shall not be mounted on the same post.

476 No items other than retroreflective strips on the supports (see Section 2A.21), official
477 traffic control signs, sign installation dates, inventory stickers, anti-vandalism stickers, and
478 bar codes shall be mounted on the fronts or backs of STOP or YIELD signs or on their
479 supports.

480 **Guidance:**

481 ~~Other than a DO NOT ENTER sign, no sign should be~~ A sign that is mounted back-to-back
482 with a STOP or YIELD sign ~~in a manner that obscures the shape~~ should stay within the edges of
483 the STOP or YIELD sign. If necessary, the size of the STOP or YIELD sign should be increased
484 so that any other sign installed back-to-back with a STOP or YIELD sign remains within the
485 edges of the STOP or YIELD sign.

486 **Option:**

487 Where drivers proceeding straight ahead must yield to traffic approaching from the opposite
488 direction, such as at a one-lane bridge, a TO ONCOMING TRAFFIC (R1-2aP) plaque may be
489 mounted below the YIELD sign.

490 Support:

491 Figure 2A-3 shows examples of some typical placements of STOP signs and YIELD signs.

492 Section 2A.16 contains additional information about separate and combined mounting of
493 other signs with STOP or YIELD signs.

494 Guidance:

495 Stop lines (see Section 3B.16), when used to supplement a STOP sign, should be located at a
496 point where the road user should stop. Yield lines (see Section 3B.16), when used to supplement
497 a YIELD sign, should be located at a point where the road user should yield (~~see Section 3B.16~~).

498 Where there is a marked crosswalk at the intersection, the STOP sign should be installed in
499 advance of the crosswalk line nearest to the approaching traffic.

500 Except at roundabouts ~~intersections~~, ~~deleted to increase consistency~~ where there is a marked
501 crosswalk at the intersection, the YIELD sign should be installed in advance of the crosswalk line
502 nearest to the approaching traffic. ~~this paragraph and the next paragraph were switched to provide~~
503 ~~better continuity~~

504 Where two roads intersect at an acute angle, the STOP or YIELD sign should be positioned at
505 an angle, or shielded, so that the legend is out of view of traffic to which it does not apply.

506 ~~At a roundabout intersection, to prevent circulating vehicles from yielding unnecessarily, the~~
507 ~~face of the YIELD sign should not be visible from the circulatory roadway.~~ ~~deleted because it is~~
508 ~~covered by the previous paragraph~~

509 If a raised splitter island is available on the left-hand side of a multi-lane roundabout
510 approach, an additional YIELD sign should be placed on the left-hand side of the approach.

511 Option:

512 If a raised splitter island is available on the left-hand side of a single lane roundabout
513 approach, an additional YIELD sign may be placed on the left-hand side of the approach.

514 At wide-throat intersections or where two or more approach lanes of traffic exist on the
515 signed approach, observance of the ~~yield~~ right-of-way control may be improved by the
516 installation of an additional STOP or YIELD sign on the left-hand ~~edited to increase clarity~~ side
517 of the road and/or the use of a stop or yield line. At channelized intersections or at divided
518 roadways separated by a median, the additional STOP or YIELD sign may be ~~effectively~~
519 on a channelizing island or in the median. An additional STOP or YIELD sign may also be
520 placed overhead facing the approach at the intersection to improve observance of the right-of-way
521 control.

522 **Standard:**

523 **Two STOP signs or two YIELD signs shall not be placed on the same support facing in**
524 **the same direction to provide extra emphasis.**

525 Support:

526 Section 2C.39 contains information regarding the use of a NO MERGE AREA (W4-5P)
527 supplemental plaque in conjunction with a YIELD sign.

528 **Section 2B.11 Yield Here To Pedestrians Signs and Stop Here For Pedestrians Signs**
529 **(R1-5, ~~R1-5a~~ Series)**

530 **Approved by Council 1-12-08 with modifications shown in pink.**

531 **Standard:**

532 Yield Here To (Stop Here For) Pedestrians (R1-5, R1-5a, R1-5b, or R1-5c) signs (see
533 Figure 2B-2) shall be used if yield (stop) lines are used in advance of ~~an unsignalized~~
534 ~~marked midblock~~ a crosswalk that crosses an uncontrolled multi-lane approach, ~~Yield Here~~
535 ~~To Pedestrians (R1-5 or R1-5a) signs (see Figure 2B-2) shall be.~~

536 **The Stop Here for Pedestrians shall only be used where the law specifically**
537 **requires that a driver must stop for a pedestrian in a crosswalk.**

538
539 Guidance:

540 If yield (stop) lines and Yield Here To (Stop Here For) Pedestrians signs are used in advance
541 of a crosswalk that crosses an uncontrolled multi-lane approach, they should be placed 6.1 to 15
542 m (20 to 50 ft) in advance of the nearest crosswalk line (see Section 3B.16 and Figure 3B-16),
543 and parking should be prohibited in the area between the yield (stop) line and the crosswalk.

544 Yield (stop) lines and Yield Here To (Stop Here For) Pedestrians signs should not be used in
545 advance of crosswalks that cross an approach to or departure from a roundabout.

546 Option:

547 Yield Here To (Stop Here For) Pedestrians signs may be used in advance of a crosswalk that
548 crosses an uncontrolled multi-lane approach to indicate to road users where to yield (stop) even if
549 yield (stop) lines are not used.

550 Standard:

551 A Pedestrian Crossing (W11-2) warning sign shall not be post-mounted at a crosswalk
552 location where Yield Here To (Stop Here For) Pedestrians signs have been installed in
553 advance of the crosswalk.

554 **Standard:**

555 **If the R1-5 series regulatory sign (Stop or Yield to Pedestrians) is used, it shall not block the**
556 **motorist's view of the W11-2 pedestrian warning sign nor shall it be placed on the same**
557 **post.**

558 Option:

559 A Pedestrian Crossing (W11-2) warning sign may be mounted overhead at the crosswalk
560 location where Yield Here To (Stop Here For) Pedestrians signs have been installed in advance of
561 the crosswalk.

562 An advance Pedestrian Crossing (W11-2) warning sign with an AHEAD or a distance
563 supplemental plaque may be used in conjunction with a Yield Here To (Stop Here For)
564 Pedestrians sign on the approach to the same crosswalk.

565 In-Street Pedestrian Crossing signs and Yield Here To (Stop Here For) Pedestrians signs may
566 be used together at the same crosswalk.

567 **Reason for change in 2B.11 - SSR # 3 synthesis of signs was approved by RWSTC in June**
568 **2007 ready for sponsors. Language is consistent with that approved by RWSTC.**
569 **Provides clarification for the use of STOP versus YIELD based on state laws as**
570 **appropriate. Avoids warning sign blocking the regulatory sign when both are used.**

571 **Section 2B.12 In-Street and Overhead Pedestrian Crossing Signs (R1-6, R1-6a, R1-**
572 **9, and R1-9a)**

573 **Approved by Council 1-12-08 with modifications shown in yellow.**

574 Option:

575 The In-Street Pedestrian Crossing (R1-6 or R1-6a) sign or the Overhead Pedestrian Crossing
576 (R1-9 or R1-9a) sign (see Figure 2B-2) may be used to remind road users of laws regarding right-

577 of-way at an unsignalized pedestrian ~~crossing~~ **crosswalk**. The legend STATE LAW may be
578 ~~shown displayed~~ **edited to increase consistency** at the top of the R1-6 and R1-6a signs, if
579 applicable. On the R1-6 and R1-6a signs, the legends STOP ~~FOR~~ or YIELD ~~TO~~ may be used ~~in~~
580 ~~conjunction with~~ **instead of** **edited to increase clarity** the appropriate STOP sign or YIELD sign
581 symbol.

582 **Guidance:**

583 In-Street Pedestrian Crossing signs should be used if engineering judgment or an engineering
584 study indicates that one or more of the following conditions exists at an unsignalized location:

585 A. There is a need to remind drivers of the normal right-of-way rule that requires them to
586 stop for or yield to pedestrians within the crosswalk;

587 B. The application of other measures has not achieved reasonable compliance with the law
588 on the part of drivers; or

589 C. The pedestrian volume crossing the roadway at an intersection or midblock location
590 during an average day is 25 or more during any 1 hour.

591 **Option:**

592 In addition to the conditions listed in the previous paragraph, other Criteria may be developed
593 and applied by highway agencies in determining the applicability of In-Street Pedestrian Crossing
594 signs.

595 **Standard:**

596 If used, the In-Street Pedestrian Crossing sign shall be placed in the roadway at the
597 crosswalk location on the center line, on a lane line, or on a median island. The In-Street
598 Pedestrian Crossing sign shall not be post-mounted on the left-hand or right-hand side of
599 the roadway.

600 If used, the Overhead Pedestrian Crossing sign shall be placed over the roadway at the
601 crosswalk location.

602 An In-Street or Overhead Pedestrian Crossing sign shall ~~be~~ not be placed in advance of
603 the crosswalk to educate road users about the State law prior to reaching the crosswalk, nor
604 shall it be installed as an educational display that is not near any crosswalk.

605 **Guidance:**

606 If an island (see Chapter 3G) is available, the In-Street Pedestrian Crossing sign, if used,
607 should be placed on the island.

608 **Option:**

609 If a Pedestrian Crossing (W11-2) warning sign is used in combination with an In-Street or an
610 Overhead Pedestrian Crossing sign, the W11-2 sign with a Downward Diagonal Arrow (W16-7P)
611 plaque may be post-mounted on the right-hand side of the roadway at the crosswalk location.

612 **Standard:**

613 The In-Street Pedestrian Crossing sign and the Overhead Pedestrian Crossing sign shall
614 not be used at signalized locations.

615 The STOP FOR legend shall only be used in States where the State law specifically
616 requires that a driver must stop for a pedestrian in a crosswalk.

617 ~~If used,~~ The In-Street Pedestrian Crossing sign shall have a black legend (except for the
618 red STOP or YIELD sign symbols) and border on ~~either~~ a white ~~and/or fluorescent yellow-~~
619 ~~green~~ background, ~~surrounded by an outer fluorescent yellow-green background area, as~~
620 ~~illustrated in Figure 2B-2, or by an outer fluorescent yellow background area.~~ **edited to**
621 **increase clarity** The Overhead Pedestrian Crossing sign shall have a black legend and
622 border on a fluorescent yellow or fluorescent yellow-green background at the top of the sign

623 and a black legend and border on a white background at the bottom of the sign, as
624 illustrated in Figure 2B-2.

625 ~~If~~ Unless the In-Street Pedestrian Crossing sign is placed in the roadway on a physical
626 island, the sign support shall comply with the breakaway requirements of the latest edition
627 of AASHTO's "Specification for Structural Supports for Highway Signs, Luminaires, and
628 Traffic Signals" (see Page i) be designed to bend over and then bounce back to its normal
629 vertical position when struck by a vehicle.

630 Support:

631 The Provisions of Section 2A.18 concerning mounting height are not applicable for the In-
632 Street Pedestrian Crossing sign.

633 Standard:

634 The top of an In-Street Pedestrian Crossing sign shall be no more than 1.2 m (4 ft)
635 above the pavement surface. The top of an In-Street Pedestrian Crossing sign placed in an
636 island shall be no more than 1.2 m (4 ft) above the island surface.

637 Option:

638 The In-Street Pedestrian Crossing sign may be used seasonably to prevent damage in winter
639 because of plowing operations, and may be removed at night if the pedestrian activity at night is
640 minimal.

641 In-Street or Overhead Pedestrian Crossing signs and Yield Here To (Stop Here For)
642 Pedestrians signs may be used together at the same crosswalk.

643 In-Street and Overhead Pedestrian Crossing signs may be used together at the same
644 crosswalk.

645 **Reason for change in 2B.12 – Eliminating the guidance statement for use of the in**
646 **street sign allows for engineering judgement and avoids overuse of the sign that**
647 **could occur for a should condition. Avoids a fixed amount for pedestrian volumes**
648 **which could lead to overuse of the sign. Eliminating the word “be” is editorial.**

649 **Section 2B.13 Speed Limit Sign (R2-1)**

650 **Section 2B.13 Tabled until June 2008 by RWSTC**

651 **Standard:**

652 **After Speed zones (other than statutory speed limits) shall only be established on the**
653 **basis of an engineering study that has been made performed in accordance with established**
654 **traffic engineering practices. The engineering study shall include an analysis of the current**
655 **speed distribution of free-flowing vehicles.**

656 The Speed Limit (R2-1) sign (see Figure 2B-1) shall display the limit established by law,
657 ordinance, regulation, or as adopted by the authorized agency based on the engineering
658 study. The speed limits ~~shown~~ displayed **edited to increase consistency** shall be in multiples
659 of 10 km/h or 5 mph.

660 Speed Limit (R2-1) signs, indicating speed limits for which posting is required by law,
661 shall be located at the points of change from one speed limit to another. **relocated from**
662 **Section 2B.18**

663 At the downstream end of the section to which a speed limit applies, a Speed Limit sign
664 showing the next speed limit shall be installed. Additional Speed Limit signs shall be
665 installed beyond major intersections and at other locations where it is necessary to remind
666 road users of the speed limit that is applicable. **relocated from Section 2B.18**

667 Speed Limit signs indicating the statutory speed limits shall be installed at entrances to
668 the State and, where appropriate, at jurisdictional boundaries ~~of metropolitan~~ in urban
669 areas. relocated from Section 2B.18

670 Support:

671 In general, the maximum speed limits applicable to rural and urban roads are established:

672 A. Statutorily – a maximum speed limit applicable to a particular class of road, such as
673 freeways or city streets, that is established by State law; or

674 B. As altered speed zones – based on engineering speed studies.

675 State statutory limits might restrict the maximum speed limit that can be established on a
676 particular road, notwithstanding what an engineering study might indicate.

677 Option:

678 If a jurisdiction has a policy of installing Speed Limit signs only on the streets that enter a
679 city, neighborhood, or residential area to indicate the speed limit that is applicable to the entire
680 city, neighborhood, or residential area unless otherwise posted, a CITYWIDE (R2-5aP),
681 NEIGHBORHOOD (R2-5bP), or RESIDENTIAL (R2-5cP) plaque may be mounted above the
682 Speed Limit sign and an UNLESS OTHERWISE POSTED (R2-5P) plaque may be mounted
683 below the Speed Limit sign (see Figure 2B-1).

684 Guidance:

685 A Reduced Speed Limit Ahead (W3-5 or W3-5a) sign (see Section 2C.37) should be used to
686 inform road users of a reduced speed zone where the speed limit is being reduced by more than
687 20 km/h or by more than 10 mph, or where engineering judgment indicates the need for advance
688 notice to comply with the posted speed limit ahead.

689 85th Percentile task force: Recommend changing the language as proposed by task force
690 December 2007 and approved by RWSTC on Jan 9, 2008. Language to read as shown in
691 the yellow text above

692 At least once every 5 years, States and local agencies should conduct an engineering study to
693 reevaluate non-statutory speed limits on segments of their roadways that have undergone a
694 significant ~~change~~ changes since the last review; such as the addition or elimination of parking,
695 change in the number of travel lanes, addition of a bicycle lane or signal coordination or removal.
696 ~~in roadway characteristics or surrounding land use since the last review.~~

697 No more than three speed limits should be displayed on any one Speed Limit sign or
698 assembly.

699 When a speed limit within a speed zone is posted ~~is to be posted~~, it should be within 10 km/h
700 or 5 mph of the 85th-percentile speed or the upper limit of the 16 km/h or 10 MPH pace of free-
701 flowing traffic.

702 Speed limit signs should not be used to warn of an advisory speed for a roadway
703 condition. Section 2C.46 covers advisory speed plaques for these roadway conditions.

704 Efforts should be made to coordinate the implementation of speed zones with and the
705 enforcement policies of enforcement agency

706 Option:

707 Other factors that may be considered when establishing speed limits are the following:

708 A. Road characteristics, shoulder condition, grade, alignment, and sight distance;

709 B. The pace ~~speed~~;

- 710 C. Roadside development and environment;
- 711 D. Parking practices and pedestrian activity; and
- 712 D. Reported crash experience for at least a 12-month period.

713

714 **Guidance:**

715 If used to justify a speed limit that is less than the 85th percentile speed, the list of factors above
716 should not be used to set the speed limit below the 67th percentile speed.

717

718 Two types of Speed Limit signs may be used: one to designate passenger car speeds,
719 including any nighttime information or minimum speed limit that might apply; and the other to
720 show any special speed limits for trucks and other vehicles.

721 A changeable message sign that changes the speed limit for traffic and ambient conditions
722 may be installed provided that the appropriate speed limit is ~~shown~~ displayed edited to increase
723 consistency at the proper times.

724 A changeable message sign that displays to approaching drivers the speed at which they are
725 traveling may be installed in conjunction with a Speed Limit sign.

726 **Guidance:**

727 If a changeable message sign displaying approach speeds is installed, the legend YOUR
728 SPEED XX km/h (MPH) or such similar legend should be ~~shown~~ displayed. edited to increase
729 consistency The color of the changeable message legend should be a yellow legend on a black
730 background or the reverse of these colors.

731 **Support:**

732 Advisory Speed signs are discussed in Sections 2C.08 and 2C.14 and Temporary Traffic
733 Control Zone Speed signs are discussed in Part 6. School speed limit signs are discussed in
734 Section 7B.11 for school speed limits.

735

736 Section 2B.13 – Speed Limit Sign (R2-1) – Changes were made as approved by Council
737 January 2007. FHWA added text related to Altered speed zones but doesn't define it in
738 Section 1A.13 definitions.

739

740

741 The work zone speed limit sign should be referenced as follows: Add the following
742 sentence to 2B.13:

743

744 Support: The WORK ZONE plaque that can be mounted above a
745 Speed limit sign (R2-1) is discussed in Section 6F-12.

746 Section 2B.13 is tabled until June.

747

748

749 **Section 2B.14 Truck Speed Limit ~~Sign~~ Plaque (R2-2P)**

750 **Approved by Council 1-12-08**

751

752 **Standard:**

753 Where a special speed limit applies to trucks or other vehicles, the legend TRUCKS XX
754 or such similar legend shall be ~~shown~~ displayed edited to increase consistency ~~on the same~~
755 ~~panel as~~ below the legend SPEED LIMIT XX on the same sign or on a separate R2-2P ~~sign~~
756 plaque (see Figure 2B-1) below the standard legend. edited to increase clarity

757 **Section 2B.15 Night Speed Limit ~~Sign~~ Plaque (R2-3P)**

758 **Approved by Council 1-12-08**

759

760 **Standard:**

761 Where different speed limits are prescribed for day and night, both limits shall be
762 posted.

763 **Guidance:**

764 A Night Speed Limit (R2-3P) ~~sign~~ plaque (see Figure 2B-1) should be reversed using a white
765 retroreflectorized legend and border on a black background.

766 **Option:**

767 A Night Speed Limit ~~sign~~ plaque may be combined with or installed below the standard
768 Speed Limit (R2-1) sign.

769 **Section 2B.16 Minimum Speed Limit ~~Sign~~ Plaque (R2-4P)**

770 **Approved by Council 1-12-08**

771

772 **Standard:**

773 A Minimum Speed Limit (R2-4P) ~~sign~~ plaque (see Figure 2B-3) shall be displayed only
774 in combination with a Speed Limit sign.

775 **Option:**

776 Where engineering judgment determines that slow speeds on a highway might impede the
777 normal and reasonable movement of traffic, the Minimum Speed Limit ~~sign~~ plaque may be
778 installed below a Speed Limit (R2-1) sign to indicate the minimum legal speed. If desired, ~~these~~
779 ~~two signs~~ the Speed Limit sign and the Minimum Speed Limit plaque may be combined on the
780 R2-4a sign (see Figure 2B-3).

781 **Section 2B.17 FINES HIGHER Plaque (R2-6P)**

782 **Approved by Council 1-12-08**

783

784 **Option:**

785 The FINES HIGHER (R2-6P) plaque (see Figure 2B-1) may be used to advise road users
786 when increased fines are imposed for traffic violations within designated roadway segments.

787 The FINES HIGHER plaque may be mounted below an applicable regulatory or warning sign
788 in a temporary traffic control zone, a school zone, or other applicable designated zones.

789 The following may be mounted below the FINES HIGHER plaque:

- 790 A. A supplemental plaque specifying the times that the higher fines are in effect (similar to
791 the S4-1P plaque shown in Figure 7B-1), or
792 B. A supplemental plaque WHEN CHILDREN (WORKERS) ARE PRESENT, or
793 C. A supplemental plaque WHEN FLASHING (similar to the S4-4P plaque shown in Figure
794 7B-1) if used in conjunction with a yellow flashing beacon.

795 The legend FINES HIGHER may be replaced by ~~multiple values such as~~ FINES DOUBLE
796 (R2-6aP) ~~or FINES TRIPLE, or by a specific value such as \$150~~ \$XX FINE (R2-6bP), or another
797 [legend appropriate to the specific regulation \(see Figure 2B-1\)](#).

798 **Standard:**

799 The FINES HIGHER plaque shall be a rectangle with a black legend and border on a
800 white background.

801 All supplemental plaques mounted below the FINES HIGHER plaque shall be
802 rectangles with black legends and borders on white backgrounds.

803 The FINES HIGHER plaque shall include a SCHOOL, WORK ZONE, or other
804 applicable designated zone plaque mounted above the applicable regulatory or warning
805 sign. The SCHOOL supplemental plaque shall be rectangular in shape with a black legend
806 and border on a ~~yellow or~~ fluorescent yellow-green background (same as the S4-3P plaque
807 [described in Section 7B.14](#)). The WORK ZONE supplemental plaque ([see Section 6F.12](#))
808 shall be rectangular in shape with a black legend and border on an orange background.

809 **Guidance:**

810 If used, the FINES HIGHER plaque should be located at the beginning of the temporary
811 traffic control zone, school zone, or other applicable designated zone and just beyond any
812 interchanges, major intersections, or other major traffic generators.

813 Agencies should limit the use of the FINES HIGHER plaque to locations where work is
814 actually underway, or to locations where the roadway, shoulder, or other conditions, including the
815 presence of a school, require a speed reduction or extra caution on the part of the road user.

816 **Support:**

817 [Section 6F.12 contains information regarding other signs associated with increased fines for](#)
818 [traffic violations in temporary traffic control zones.](#)

819 ~~Section 2B.18 Location of Speed Limit Signs~~ these three paragraphs were
820 ~~incorporated into Section 2B.13~~

821 ~~Tabled by RWSTC until June 2008.~~

822 **Standard:**

823 ~~Speed Limit (R2-1) signs, indicating speed limits for which posting is required by law,~~
824 ~~shall be located at the points of change from one speed limit to another.~~

825 ~~At the end of the section to which a speed limit applies, a Speed Limit sign showing the~~
826 ~~next speed limit shall be installed. Additional Speed Limit signs shall be installed beyond~~
827 ~~major intersections and at other locations where it is necessary to remind road users of the~~
828 ~~speed limit that is applicable.~~

829 ~~Speed Limit signs indicating the statutory speed limits shall be installed at entrances to~~
830 ~~the State and at jurisdictional boundaries of metropolitan areas.~~

831 ~~Section 2B.19~~ [2B.18 Turn Movement Prohibition Signs \(R3-1 through R3-4, and](#)
832 [R3-18, and R3-27\)](#)

833 [Approved by Council 1-12-08 with modifications shown in yellow.](#)

834

835 **Standard:**

836 **Except as noted in the Option, where ~~turns~~ specific movements are prohibited, ~~Turn~~**
837 **Movement Prohibition signs shall be installed.**

838 Guidance:

839 ~~Turn~~ Movement Prohibition signs should be placed where they will be most easily seen by
840 road users who might be intending to ~~turn~~ make the movement.

841 If No Right Turn (R3-1) signs (see Figure 2B-3) are used, at least one should be placed either
842 over the roadway or at a right-hand edited to increase clarity corner of the intersection.

843 If No Left Turn (R3-2) signs (see Figure 2B-3) are used, at least one should be placed ~~either~~
844 grammar – more than two choices over the roadway, at the far left-hand corner of the intersection,
845 on a median, or in conjunction with the STOP sign or YIELD sign located on the near right-hand
846 corner.

847 Except as noted in the ~~Option~~ Guidance below for signalized locations, edited to maintain
848 accuracy if NO TURNS (R3-3) signs (see Figure 2B-3) are used, two signs should be used, one at
849 a location specified for a No Right Turn sign and one at a location specified for a No Left Turn
850 sign.

851 If No U-Turn (R3-4) signs (see Figure 2B-3) or combination No U-Turn/No Left Turn (R3-
852 18) signs (see Figure 2B-3) are used, at least one should be used at a location specified for No
853 Left Turn signs. this paragraph and the next paragraph were combined

854 ~~If combination No U-Turn/No Left Turn (R3-18) signs (see Figure 2B-3) are used, at least~~
855 ~~one should be used at a location specified for No Left Turn signs.~~

856 Option:

857 If both left turns and U-turns are prohibited, the R3-18 sign may be used instead of separate
858 R3-2 and R3-4 signs. this paragraph was relocated to increase continuity

859 Guidance:

860 If No Straight Through (R3-27) signs (see Figure 2B-3) are used, at least one should be
861 placed either over the roadway or at a location where it can be seen by road users who might be
862 intending to travel straight through the intersection.

863 If turn prohibition signs are installed in conjunction with traffic signals:

- 864 A. The No Right Turn sign ~~may~~ should be installed adjacent to a signal face viewed by road
865 users in the right-hand edited to increase clarity lane.
- 866 B. The No Left Turn (or No U-Turn or combination No U-Turn/No Left Turn) sign ~~may~~
867 should be installed adjacent to a signal face viewed by road users in the left-hand edited
868 to increase clarity lane.
- 869 C. A NO TURNS sign ~~may~~ should be placed adjacent to a signal face viewed by all road
870 users on that approach, or two signs ~~may~~ should be used.

871 Option:

872 If signals are present, an additional Turn Movement Prohibition sign may be ~~ground post-~~
873 mounted edited to increase consistency to supplement the sign mounted overhead.

874 Where ONE WAY signs are used (see Section 2B.47), ~~Turn Prohibition~~ No Left Turn and No
875 Right Turn signs may be omitted.

876 When the movement restriction applies during certain time periods only, the following Turn
877 Movement Prohibition signing alternatives may be used and are listed in order of preference:

- 878 A. Changeable message signs, especially at signalized intersections.

- 879 B. Permanently mounted signs incorporating a supplementary legend showing the hours and
880 days during which the prohibition is applicable.
881 C. Portable signs, installed by proper authority, located off the roadway at each corner of the
882 intersection. The portable signs are only to be used during the time that the ~~turn~~
883 movement prohibition is applicable.

884 ~~Turn~~ Movement Prohibition signs may be omitted at a ramp entrance to an expressway or a
885 channelized intersection where the design is such as to indicate clearly the one-way traffic
886 movement on the ramp or turning lane.

887 **Standard:**

888 The No Left Turn (R3-2) sign, the No U-Turn (R3-4) sign, and the combination No U-
889 Turn/No Left Turn (R3-18) sign shall not be used at approaches to roundabouts to prohibit
890 drivers from turning left onto the circulatory roadway of a roundabout.

891 **Support:**

892 At roundabouts, the use of R3-2, R3-4, or R3-18 signs to prohibit left turns onto the
893 circulatory roadway might confuse drivers about the possible legal turning movements around the
894 roundabout. ONE WAY (R6-1R or R6-2R) signs and/or Roundabout Directional Arrow (R6-4
895 series) signs (see Section 2B.50) are the appropriate signs to indicate the travel direction within a
896 roundabout.

897

898 **Reasons for changes in 2B.18 – Language for the R3-27, NO STRAIGHT THROUGH**
899 **sign language should be deleted. Other signs such as DO NOT ENTER or two way**
900 **traffic warning signs could be used.**

901 **The language that states “If turn prohibition signs are installed in conjunction with**
902 **traffic signals” is added to clarify the use of turn prohibition signs.**

903 **Under the support statement, the ONE WAY sign for roundabouts is changed to R6-1R**
904 **and R6-2R since the proper direction is right. Change Figure 2B-16 to show the**
905 **ONE WAY sign pointing right.**

906

907 **Section ~~2B.20~~ 2B.19 Intersection Lane Control Signs (R3-5 through R3-8)**

908 **Approved by Council 1-12-08 with modification note to figure shown in yellow.**

909

910 **Standard:**

911 **Intersection Lane Control signs, if used, shall require road users in certain lanes to**
912 **turn, shall permit turns from a lane where such turns would otherwise not be permitted,**
913 **shall require a road user to stay in the same lane and proceed straight through an**
914 **intersection, or shall indicate permitted movements from a lane.**

915 **Intersection Lane Control signs (see Figure 2B-4) shall have three applications:**

- 916 **A. Mandatory Movement Lane Control (R3-5, R3-5a, and R3-7) signs,**
917 **B. Optional Movement Lane Control (R3-6) sign, and**
918 **C. Advance Intersection Lane Control (R3-8 series) signs.**

919 **Guidance:**

920 **When Intersection Lane Control signs are mounted overhead, each sign should be placed over**
921 **the lane or a projection of the lane to which it applies.**

922 On signalized approaches where lane drops, multiple-lane turns involving shared through-
923 and-turn lanes, or other lane-use regulations that would be unexpected by unfamiliar road users

924 are present, overhead lane control signs should be installed at the signalized location over the
925 appropriate lanes or projections thereof and in advance of the intersection over the appropriate
926 lanes. Where overhead mounting on the approach is impractical for the advance and/or
927 intersection lane-use signs, post-mounted R3-8 series signs should be installed in prominent
928 locations in advance of the intersection and oversized versions should be considered.

929 **Standard:**

930 **Use of an overhead sign for one approach lane shall not require installation of overhead**
931 **signs for the other lanes of that approach.**

932 Option:

933 Where the number of through lanes on an approach is two or less, the Intersection Lane
934 Control signs (R3-5, R3-6, or R3-8) may be overhead or ~~ground~~ post-mounted. edited to increase
935 consistency

936 Intersection Lane Control signs may be omitted where:

- 937 A. ~~Turning bays have~~ A turn bay has been provided by physical construction or pavement
938 markings, and
939 B. Only the road users using such ~~turning~~ turning bays are permitted to make a ~~similar~~ similar turn in that
940 direction.

941 At roundabouts, Intersection Lane Control (R3-5, R3-6, and R3-8 series) signs may display
942 any of the arrow symbol options shown in Figure 2B-5.

943 Figure 2B-5 – change the label on the arrow from “Normal” to say “Standard”.

944

945 Reason for change to Figure 2B-5 – to be consistent with Part 3 terminology for arrows.

946 **Section ~~2B.21~~ 2B.20 Mandatory Movement Lane Control Signs (R3-5, R3-5a, ~~and~~**
947 **R3-7, and R3-20)**

948 **Section 2B.20 TABLED BY RWSTC UNTIL JUNE 2008.**

949 **Standard:**

950 If used, the Mandatory Movement Lane Control (R3-5, R3-5a, and R3-7) signs (see
951 Figure 2B-4) shall indicate only ~~those the single~~ the single vehicle movements ~~that are is~~ that are is required
952 from ~~each the~~ the lane. If used, the Mandatory Movement Lane Control sign ~~and~~ shall be
953 located in advance of the intersection, such as near the upstream end of the mandatory
954 movement lane, and/or at the intersection where the regulation applies. When the
955 mandatory movement applies to lanes exclusively designated for HOV traffic, the R3-5cP
956 supplemental plaque shall be used. When the mandatory movement applies to lanes that
957 are not HOV facilities, but are lanes exclusively designated for buses and/or taxis, the word
958 message R3-5dP and/or R3-5gP supplemental plaques shall be used.

959 Where the number of lanes available to through traffic on an approach is three or more,
960 Mandatory Movement Lane Control (R3-5 and R3-5a) symbol signs, if used, shall be
961 mounted overhead (see Section 2B.19). The R3-7 word message sign shall be for ~~ground~~
962 post-mounting edited to increase consistency only.

963 If the R3-5 or R3-5a edited to increase consistency sign is ~~ground~~ post-mounted edited
964 to increase consistency on a ~~multi-lane~~ two-lane edited to increase consistency approach, a
965 supplemental plaque (see Figure 2B-4), such as LEFT LANE (R3-5bP), HOV 2+ (R3-5cP),
966 TAXI LANE (R3-5dP), CENTER LANE (R3-5eP), RIGHT LANE (R3-5fP), BUS LANE
967 (R3-5gP), or ~~LEFT 2 BOTH~~ LANES, indicating the lane with
968 the appropriate movement shall be added below.

969 The Mandatory Movement Lane Control (R3-7) sign shall include the legend RIGHT
970 (LEFT) LANE MUST TURN RIGHT (LEFT). The Mandatory Movement Lane Control
971 ~~symbol signs~~ (R3-5 and R3-5a) ~~symbol signs~~ **edited to increase consistency** shall include the
972 legend ONLY.

973 Guidance:

974 Mandatory Movement Lane Control signs should be accompanied by lane-use arrow
975 markings, especially where traffic volumes are high, where there is a high percentage of
976 commercial vehicles, or where other distractions exist.

977 Option:

978 The Straight Through Only (R3-5a) sign may be used to require a road user in a particular
979 lane to proceed straight through an intersection.

980 When the Mandatory Movement Lane Control sign for a left-turn lane is installed back-to-
981 back with a Keep Right (R4-7) sign, the dimensions of the Mandatory Movement Lane Control
982 (R3-5) sign may be the same as the Keep Right sign.

983 ~~Except for the R3-7 sign, Mandatory Movement Lane Control signs may be overhead or~~
984 ~~ground-mounted.~~ **replaced by new 2nd paragraph of Standard above**

985 The diamond symbol may be used instead of the word message HOV on the R3-5cP
986 supplemental plaque.

987 The BEGIN RIGHT TURN LANE (R3-20R) sign (see Figure 2B-4) may be post-mounted on
988 the right-hand side of the roadway at the upstream end of a mandatory right-turn lane for
989 enforcement purposes. The BEGIN LEFT TURN LANE (R3-20L) sign (see Figure 2B-4) may
990 be post-mounted on a median (or on the left-hand side of the roadway for a one-way street) at the
991 upstream end of a mandatory left-turn lane for enforcement purposes.

992

993 ~~Section 2B.22~~ **2B.21 Optional Movement Lane Control Sign (R3-6)**

994 **Section 2B.21 Tabled by RWSTC until June 2008**

995 Standard:

996 If used, the Optional Movement Lane Control (R3-6) sign (see Figure 2B-4) shall be
997 used for two or more movements from a specific lane or to emphasize permitted
998 movements. If used, the Optional Movement Lane Control sign shall be located in advance
999 of the intersection, such as near the upstream end of an adjacent mandatory movement
1000 lane, and/or **added to increase clarity** at the intersection where the regulation applies.

1001 If used, the Optional Movement Lane Control sign shall indicate all permissible
1002 movements from specific lanes.

1003 Optional Movement Lane Control signs shall be used for two or more movements from
1004 a specific lane where a movement, not normally allowed, is permitted.

1005 The Optional Movement Lane Control sign shall not be used alone to effect a turn
1006 prohibition.

1007 Where the number of lanes available to through traffic on an approach is three or more,
1008 Optional Movement Lane Control (R3-6) signs, if used, shall be mounted overhead (see
1009 Section 2B.19).

1010 If the Optional Movement Lane Control sign is post-mounted on a two-lane approach, a
1011 supplemental plaque (see Figure 2B-4), such as LEFT LANE (R3-5bP), HOV 2+ (R3-5cP),

1012 [TAXI LANE \(R3-5dP\), CENTER LANE \(R3-5eP\), RIGHT LANE \(R3-5fP\), or BUS LANE](#)
1013 [\(R3-5gP\), indicating the lane with the appropriate movements shall be added below.](#)

1014 Option:

1015 The word message OK may be used within the border in combination with the arrow symbols
1016 of the R3-6 sign.

1017 **Standard:**

1018 [Because more than one movement is permitted from the lane, the word message ONLY](#)
1019 [shall not be used on an Optional Movement Lane Control sign.](#)

1020

1021

1022 **Section ~~2B.23~~ 2B.22 Advance Intersection Lane Control Signs (R3-8 Series)**

1023 **Section 2B.22 Tabled until June 2008 by RWSTC**

1024 Option:

1025 Advance Intersection Lane Control (R3-8, R3-8a, and R3-8b) signs (see Figure 2B-4) may be
1026 used to indicate the configuration of all lanes ahead.

1027 The word messages ONLY, OK, THRU, ALL, or HOV 2+ may be used within the border in
1028 combination with the arrow symbols of the R3-8 sign series. The HOV 2+ (R3-5cP)
1029 supplemental plaque may be installed at the top outside border of the R3-8 sign over the
1030 applicable lane. The diamond symbol may be used instead of the word message HOV. The
1031 minimum allowable vehicle occupancy requirement may vary based on the level established for a
1032 particular facility.

1033 Guidance:

1034 If used, an Advance Intersection Lane Control sign should be placed at an adequate distance
1035 in advance of the intersection so that road users can select the appropriate lane. If used, the
1036 Advance Intersection Lane Control sign should be installed either in advance of the tapers or at
1037 the beginning of the turn lane.

1038 **Option:**

1039 [An Advance Intersection Lane Control sign may be repeated closer to the intersection for](#)
1040 [additional emphasis.](#)

1041 **Standard:**

1042 [Where the number of lanes available to through traffic on an approach is three or more,](#)
1043 [Advance Intersection Lane Control signs, if used, shall not be mounted overhead \(see](#)
1044 [Section 2B.19\).](#)

1045

1046 **[Section 2B.23 RIGHT \(LEFT\) LANE MUST EXIT Sign \(R3-33\) .](#)**

1047 **Approved by Council 1-12-08**

1048 **Option:**

1049 [A RIGHT \(LEFT\) LANE MUST EXIT \(R3-33\) sign \(see Figure 2B-4\) may be used to](#)
1050 [inform road users that traffic in the right-hand \(left-hand\) lane of a roadway that is approaching a](#)
1051 [grade-separated interchange is required to depart the roadway on the exit ramp at the next](#)
1052 [interchange.](#)

1053 **Support:**

1054 [Section 2C.42 contains information regarding a warning sign that can be used in advance of](#)
1055 [lane drops at grade-separated interchanges.](#)

1056 **Section 2B.24 Two-Way Left Turn Only Signs (R3-9a, R3-9b)**

1057 **Approved by Council 1-12-08**

1058 Guidance:

1059 Two-Way Left Turn Only (R3-9a or R3-9b) signs (see Figure 2B-6) should be used in
1060 conjunction with the required pavement markings where a nonreversible lane is reserved for the
1061 exclusive use of left-turning vehicles in either direction and is not used for passing, overtaking, or
1062 through travel.

1063 Option:

1064 The ~~ground-~~ post-mounted ~~edited to increase consistency~~ R3-9b sign may be used as an
1065 alternate to or a supplement to the overhead-~~mounted~~ ~~edited to increase consistency~~ R3-9a sign.
1066 The legend BEGIN or END may be used within the border of the main sign itself, or on ~~a plaque~~
1067 [an M4-6 or M4-14 auxiliary sign \(see Sections 2D.22 and 2D.23\)](#) mounted immediately above it.

1068 Support:

1069 Signing is especially helpful to drivers in areas where the two-way left turn only maneuver is
1070 new, in areas subject to environmental conditions that frequently obscure the pavement markings,
1071 and on peripheral streets with two-way left turn only lanes leading to an extensive system of
1072 routes with two-way left turn only lanes.

1073 **Section 2B.25 Reversible Lane Control Signs (R3-9d, R3-9f through R3-9i)**

1074 **Approved by Council 1-12-08**

1075 Option:

1076 A reversible lane may be used for through traffic (with left turns either permitted or
1077 prohibited) in alternating directions during different periods of the day, and the lane may be used
1078 for exclusive left turns in one or both directions during other periods of the day as well.
1079 Reversible Lane Control (R3-9d, R3-9f through R3-9i) signs (see Figure 2B-6) may either be
1080 static type or changeable message type. These signs may be either ~~ground~~ ~~post-mounted~~ or
1081 overhead ~~mounted.~~ ~~edited to increase consistency~~

1082 **Standard:**

1083 ~~Ground-~~ ~~Post-~~mounted ~~edited to increase consistency~~ Reversible Lane Control signs
1084 shall be used only as a supplement to overhead signs or signals. ~~Ground-~~ ~~Post-~~mounted
1085 ~~edited to increase consistency~~ signs shall be identical in design to the overhead signs and an
1086 additional legend such as CENTER LANE shall be added to the sign (R3-9f) to indicate
1087 which lane is controlled. For both word messages and symbols, this legend shall be at the
1088 top of the sign.

1089 **Where it is determined by an engineering study that lane-use control signals or physical**
1090 **barriers are not necessary, the lane shall be controlled by overhead Reversible Lane**
1091 **Control signs (see Figure 2B-7).**

1092 Option:

1093 Reversing traffic flow may be controlled with pavement markings and Reversible Lane
1094 Control signs (without the use of lane control signals), when all of the following conditions are
1095 met:

- 1096 A. Only one lane is being reversed,
- 1097 B. An engineering study indicates that the use of Reversible Lane Control signs alone would
1098 result in an acceptable level of safety and efficiency, and
- 1099 C. There are no unusual or complex operations in the reversible lane pattern.

1100 **Standard:**

1101 Reversible Lane Control signs shall contain the legend or symbols designating the
1102 allowable uses of the lane and the time periods such uses are allowed. Where symbols and
1103 legend are used, their meanings shall be as shown in Table 2B-3.

1104 Reversible Lane Control signs shall consist of a white background with a black legend
1105 and border, except for the R3-9d sign, where the color red is used.

1106 Symbol signs, such as the R3-9d sign, shall consist of the appropriate symbol in the
1107 upper portion of the sign with the appropriate times of the day and days of the week below
1108 it. All times of the day and days of the week shall be accounted for on the sign to eliminate
1109 confusion to the road user.

1110 In situations where more than one message is conveyed to the road user, such as on the
1111 R3-9d sign, the sign legend shall be arranged as follows:

- 1112 A. The prohibition or restriction message is the primary legend and shall be on the top
1113 for word message signs and to the far left for symbol signs,
- 1114 B. The permissive use message shall be ~~shown~~ displayed edited to increase consistency
1115 as the second legend, and
- 1116 C. The OTHER TIMES message shall be ~~shown~~ displayed edited to increase
1117 consistency at the bottom for word message signs and to the far right for symbol
1118 signs.

1119 **Option:**

1120 The symbol signs may also include a downward pointing arrow with the legend THIS LANE.
1121 The term OTHER TIMES may be used for either the symbol or word message sign.

1122 **Standard:**

1123 A Reversible Lane Control sign shall be mounted over the center of the lane that is
1124 being reversed and shall be perpendicular to the roadway alignment.

1125 If the vertical or horizontal alignment is curved to the degree that a driver would be
1126 unable to see at least one sign, and preferably two signs, then additional overhead signs
1127 shall be installed. The placement of the signs shall be such that the driver will have a
1128 definite indication of the lanes specifically reserved for use at any given time. Special
1129 consideration shall be given to major generators introducing traffic between the normal
1130 sign placement.

1131 Transitions at the entry to and exit from a section of roadway with reversible lanes shall
1132 be carefully reviewed, and advance signs shall be installed to notify or warn drivers of the
1133 boundaries of the reversible lane controls. The R3-9g or R3-9h signs shall be used for this
1134 purpose.

1135 **Option:**

1136 More than one sign may be used at the termination of the reversible lane to emphasize the
1137 importance of the message (R3-9i).

1138 **Standard:**

1139 Flashing beacons, if used to accentuate the overhead Reversible Lane Control signs,
1140 shall comply with the applicable requirements for flashing beacons in Chapter 4L.

1141 When used in conjunction with Reversible Lane Control signs, the Turn Prohibition
1142 signs (R3-1 to R3-4, R3-18) shall be mounted overhead and separate from the Reversible
1143 Lane Control signs. The Turn Prohibition signs shall be designed and installed in
1144 accordance with Section 2B.18.

1145 **Guidance:**

1146 For additional emphasis, a supplemental plaque stating the distance of the prohibition, such as
1147 NEXT 1.6 km (NEXT 1 MILE), should be added to the Turn Prohibition signs that are used in
1148 conjunction with Reversible Lane Control signs.

1149 If used, overhead signs should be located at intervals not greater than 400 m (0.25 mi). The
1150 bottom of the overhead Reversible Lane Control signs should not be more than 5.8 m (19 ft)
1151 above the pavement grade.

1152 Where more than one sign is used at the termination of a reversible lane, they should be at
1153 least 75 m (250 ft) apart. Longer distances between signs are appropriate for streets with speeds
1154 over 60 km/h (35 mph), but the separation should not exceed 300 m (1,000 ft).

1155 ~~Because~~ ~~editorial revision to increase consistency~~ left-turning vehicles have a significant
1156 impact on the safety and efficiency of a reversible lane operation, if an exclusive left-turn lane or
1157 two-way left-turn lane cannot be incorporated into the lane-use pattern for a particular peak or
1158 off-peak period, consideration should be given to prohibiting left turns and U-turns during that
1159 time period.

1160 **Section 2B.26 Regulatory Signs for Preferential ~~Only~~ Lanes – General Signs (~~R3-10~~**
1161 **~~through R3-15~~) existing Sections 2B.26 through 2B.28 have been edited;**
1162 **paragraphs have been relocated within and between these Sections and the text**
1163 **has been reorganized into five Sections**

1164 **Section 2B.26 Tabled until June 2008 by RWSTC**

1165 Support:

1166 Preferential ~~only~~ lanes are lanes designated exclusively for special traffic uses such as high-
1167 occupancy vehicles (HOVs), vehicles equipped with electronic toll collection (ETC)
1168 transponders, light rail, buses, taxis, or bicycles. Preferential ~~only~~ lane treatments might be as
1169 simple as restricting a turning lane to a certain class of vehicles during peak periods, or as
1170 sophisticated as providing a separate roadway system within a highway corridor for certain
1171 vehicles.

1172 ~~HOV Preferential~~ lanes ~~may take many forms depending on the level of usage and the design~~
1173 ~~of the facility. They may~~ might be barrier-separated (on a separate alignment or physically
1174 separated from the other travel lanes by a barrier or median), ~~or they may be concurrent with~~
1175 ~~other travel lanes and be~~ buffer-separated (separated from the adjacent general purpose lanes only
1176 by a narrow buffer area created with longitudinal pavement markings), or contiguous (separated
1177 from the adjacent general purpose lanes only by a lane line). ~~Physically separated HOV~~
1178 Preferential lanes ~~may~~ might be operated in a constant direction or ~~may be~~ operated as reversible
1179 lanes. Some reversible preferential lanes on a divided highway might be operated counter-flow to
1180 the direction of traffic on the immediately adjacent general purpose lanes. ~~this paragraph was~~
1181 ~~relocated from Section 2B.27~~

1182 ~~HOV Preferential~~ lanes ~~may~~ might be operated on a 24-hour basis, for extended periods of
1183 the day, during peak travel periods only, during special events, or during other activities. ~~this~~
1184 ~~paragraph was relocated from Section 2B.27~~

1185 A managed lane operated on a real-time basis in response to changing conditions might be
1186 operated as an HOV lane, with or without other requirements such as tolling or vehicle type, for a
1187 period of time as needed. Additional information regarding signs for managed lanes is contained
1188 in Sections 2B.32 and 2E.61.

1189 Information regarding Preferential ~~Only~~ Lane signs for bicycle lanes is contained in Section
1190 9B.04.

1191 Sections 2E.51 through 2E.54 contains additional provisions regarding signing signs for
1192 preferential ~~only~~ lanes on freeway and expressway facilities. Figures 2E-35 through 2E-43 show

1193 application and placement examples for Preferential ~~Only~~ Lane signs for a variety of preferential
1194 ~~only~~ lane situations. **this paragraph was relocated from Section 2B.28**

1195 ~~Option:~~

1196 ~~Preferential only lane assignments may be made on a full time or part time basis.~~

1197 **Standard:**

1198 When a preferential ~~only~~ lane is established, the Preferential ~~Only~~ Lane regulatory
1199 signs (see Figure 2B-8) and pavement markings (see Sections 3B.24 and 3B.25) for these
1200 lanes shall be used to advise road users.

1201 Support:

1202 Preferential Lane (R3-10 series through R3-15 series) regulatory signs consist of
1203 several different general types of regulatory signs as follows (see Figure 2B-8):

1204 A. Vehicle Occupancy Definition signs define the vehicle occupancy requirements
1205 applicable to an HOV lane (such as “2 OR MORE PERSONS PER VEHICLE”)
1206 or types of single-occupant vehicles (such as motorcycles or ILEVs) that are
1207 allowed to use an HOV lane (see Section 2B.27).

1208 B. Periods of Operation signs notify road users of the days and hours during which
1209 the preferential restrictions are in effect (see Section 2B.28).

1210 C. Preferential Lane Advance signs notify road users that a preferential lane
1211 restriction begins ahead (see Section 2B.29).

1212 D. Preferential Lane Ends signs notify users of the termination point of the
1213 preferential lane restrictions (see Section 2B.30).

1214 **Standard:**

1215 **Regulatory signs applicable only to a preferential lane shall be distinguished**
1216 **from regulatory signs applicable to general purpose lanes by the inclusion of the**
1217 **applicable symbol(s) and/or word(s) (see Figure 2B-8).**

1218 Support:

1219 The symbol and word message that appears on a particular Preferential ~~Only~~ Lane regulatory
1220 sign will vary based on the specific type of allowed traffic and on other related operational
1221 constraints that have been established for a particular lane, such as an HOV lane, a bus lane, ~~or~~ a
1222 taxi lane, or an ETC only lane. ~~Section 2B.27 contains information regarding the restriction of~~
1223 ~~the use of the diamond symbol to HOV lanes only. The requirements for guide and regulatory~~
1224 ~~signs in advance of all preferential only lanes on freeways are provided in Section 2E.59.~~
1225 Sections 2B.32, 2D.26, and 2E.51 through 2E.61 contain additional provisions regarding signs
1226 and pictographs used with ETC only lanes.

1227 **Standard:**

1228 ~~At the end of a preferential only lane, a Lane Ends (R3-12a or R3-15a) sign shall be~~
1229 ~~used.~~

1230 Option:

1231 Changeable message signs may ~~be used to~~ supplement, substitute for, or be used in
1232 combination with static Preferential Lane regulatory signs where travel conditions change or
1233 where multiple types of operational strategies (such as variable occupancy requirements, vehicle
1234 types, or pricing policies) are used and varied throughout the day or week, or on a real-time basis,
1235 to manage the use of, control of, or access to preferential ~~only~~ lanes.

1236 Support:

1237 Figure 2B-8 illustrates examples of changeable messages in combination with static
1238 Preferential Lane regulatory signs.

1239 **Standard:**

1240 **When changeable message signs (see Section 2A.07 Chapter 2M) are used as regulatory**
1241 **signs for preferential ~~only~~ lanes, they shall be the required sign size and shall display the**
1242 **required letter height and legend format that corresponds to the type of roadway facility**
1243 **and design speed.**

1244 **Guidance:**

1245 When Preferential ~~Only~~ Lane regulatory signs are used on conventional roads, the decision
1246 regarding whether to use a ~~specific ground-~~ post-mounted edited to increase consistency or
1247 overhead version of a particular type of sign should be based on an engineering study that
1248 considers the available space, the existing signs for the ~~adjoining adjacent~~ general purpose traffic
1249 lanes, roadway and traffic characteristics, the proximity to existing overhead ~~signing signs,~~ the
1250 ability to install overhead signs, and any other unique local factors. this paragraph was relocated
1251 from Section 2B.28

1252 ~~The decision to use a specific ground-mounted or overhead sign for a preferential only lane~~
1253 ~~should be based on an engineering study that considers the available space, the existing signs for~~
1254 ~~adjoining general purpose lanes, roadway and traffic characteristics, the proximity of other~~
1255 ~~overhead signing, the ability to install overhead signs, and any other unique local factors.~~

1256 ~~Ground-mounted Preferential Only Lane (R3-10, R3-11, and R3-12 series) signs should be~~
1257 ~~installed where preferential only lanes are implemented on freeways, expressways, and~~
1258 ~~conventional roads.~~

1259 If overhead regulatory signs applicable only to a preferential lane are located in
1260 approximately the same longitudinal position along the highway as overhead signs applicable
1261 only to the general purpose lanes, the signs for the preferential lane should be separated laterally
1262 from the signs for the general purpose lanes to the maximum extent practical to minimize
1263 conflicting information.

1264 **Standard:**

1265 If used, overhead Preferential ~~Only~~ Lane (R3-13 series, R3-14 series, and R3-15 series)
1266 regulatory signs shall ~~only be installed along preferential only lanes on freeways and~~
1267 ~~expressways. These overhead signs shall~~ be installed on the side of the roadway where the
1268 entrance to the preferential ~~only~~ lane is located and any appropriate adjustments shall be
1269 made to the sign message. ~~The sign sizes shall differ between freeways and expressways as~~
1270 ~~provided in Table 2B-1 to reflect the different design speeds for each type of roadway. this~~
1271 paragraph was relocated from Section 2B.28

1272 Option:

1273 Where a median of sufficient width is available, the R3-13 series and R3-
1274 15 series signs may be post-mounted.

1275 **Support:**

1276 The sizes for Preferential ~~Only~~ Lane regulatory signs will differ to reflect the design speeds
1277 for each type of roadway facility. Table 2B-1 provides sizes for each type of roadway facility.

1278 Guidance:
1279 The edges of Preferential Lane regulatory signs that are post-mounted on a median barrier
1280 should not project beyond the outer edges of the barrier, including in areas where lateral clearance
1281 is limited.

1282 Option:
1283 Where lateral clearance is limited, Preferential Lane regulatory signs that
1284 are post-mounted on a median barrier and that are 1800 mm (72 in) or less
1285 in width may be skewed up to 45 degrees in order to fit within the barrier
1286 width or may be mounted with a vertical clearance of not less than 4.3 m (14
1287 ft) to the sign over the entire width of the pavement and shoulders.

1288 Guidance:

1289 Where lateral clearance is limited, Preferential Lane regulatory signs that are post-mounted
1290 on a median barrier and that are wider than 1800 mm (72 in) should be mounted with a vertical
1291 clearance of not less than 4.3 m (14 ft) to the sign over the entire width of the pavement and
1292 shoulders.

1293 On conventional roadways, Preferential ~~Only~~ Lane regulatory sign spacing should be
1294 determined by engineering judgment based on prevailing speed, block length, distances from
1295 adjacent intersections, and other site-specific considerations.

1296 Support:

1297 Sections 2B.27 and 2B.28 contain provisions regarding the placement of Preferential Lane
1298 regulatory signs on freeways and expressways.

1299 **Standard:**

1300 ~~The R3-10, R3-11, R3-11a, R3-11e, R3-13, R3-13a, R3-14, and R3-14a~~ signs illustrated
1301 in Figure 2B-8 that incorporate the diamond symbol shall be used exclusively with
1302 preferential ~~only~~ lanes for high-occupancy vehicles to indicate the particular occupancy
1303 requirement and time restrictions applying to that lane. ~~The R3-10a, R3-11b, and R3-14b~~
1304 signs illustrated in Figure 2B-8 that do not have a diamond symbol shall be used ~~in~~
1305 ~~situations where a~~ with preferential ~~only~~ lanes ~~is that are not an~~ HOV lanes, but ~~is~~ are
1306 designated for use by other types of vehicles (such as bus and/or taxi use).

1307 Option:

1308 Agencies may select from either the HOV abbreviation or the diamond symbol, or use both,
1309 to reference the HOV lane designation. this paragraph was relocated from Section 2B.27

1310 ~~The diamond symbol may be used instead of the word message HOV.~~

1311 **Standard:**

1312 When the diamond symbol (or HOV abbreviation) is used without text on the ~~ground-~~
1313 post-mounted edited to increase consistency Preferential ~~Only~~ Lane (R3-10 series, R3-11
1314 series, and R3-12 series) regulatory signs, it shall be centered on the top line of the sign.
1315 When the diamond symbol (or HOV abbreviation) is used with associated text on the
1316 ~~ground-~~ post-mounted edited to increase consistency Preferential ~~Only~~ Lane (R3-10 series,
1317 R3-11 series, and R3-12 series) regulatory signs, it shall appear to the left of the associated
1318 text. When the diamond symbol is used on the overhead Preferential ~~Only~~ Lane (R3-13,
1319 R3-13a, R3-14, and R3-14a) regulatory signs, it shall appear in the top left quadrant. The
1320 diamond symbol for the R3-15, ~~and~~ R3-15a, R3-15b, and R3-15c signs shall appear on the
1321 left side of the sign. The diamond symbol shall not be used on the bus, taxi, or bicycle
1322 Preferential ~~Only~~ Lane signs. the sequence of the last two sentences was reversed

1323 The Vehicle Occupancy Definition, Periods of Operation, and Preferential Lane
1324 Advance regulatory signs for HOV signs (see Section 2B.26) lanes shall display the
1325 minimum allowable vehicle occupancy requirement established for each HOV lane, ~~The~~
1326 ~~vehicle occupancy requirement established for an HOV lane shall be referenced~~ displayed
1327 immediately after the word message HOV or the diamond symbol. ~~The diamond symbol~~
1328 ~~shall be restricted for use with HOV lanes only.~~ this paragraph is a combination of two
1329 paragraphs that were relocated from Section 2B.27

1330 Support:

1331 The agencies that own and operate ~~preferential only~~ HOV lanes ~~for high occupancy vehicles~~
1332 ~~(HOV lanes) shall~~ have the authority and responsibility to determine how they are operated and
1333 the occupancy requirements ~~for vehicles operating in HOV lanes. The minimum occupancy~~
1334 ~~requirement shall be two occupants per vehicle.~~ Information about federal requirements for
1335 certain types of single-occupant vehicles to be eligible to use HOV lanes that receive Federal-aid
1336 program funding and about requirements associated with proposed significant changes to the
1337 operation of an existing HOV lane and certain vehicles are contained in the “Federal-Aid
1338 Highway Program Guidance on High Occupancy Vehicle (HOV) Lanes” (see Section 1A.11).
1339 this paragraph was relocated from Section 2B.27

1340 Option:

1341 ~~The ground-mounted Preferential Only Lane Operational (R3-11 series) signs and the~~
1342 ~~overhead Preferential Only Lane Operational (R3-14 series) signs may be used to supplement~~
1343 ~~changeable message signs that are used to convey preferential only lane restrictions.~~

1344 Support:

1345 ~~Figures 2E-46 through 2E-52 show example signing layouts using the R3-10 through R3-15~~
1346 ~~series signs for various preferential only lane applications.~~

1347
1348
1349
1350 Section 2B.27 ~~Preferential Only Lanes for High Occupancy Vehicles (HOVs)~~
1351 Vehicle Occupancy Definition Signs (R3-10 Series and R3-13 Series)

1352 Section 2B.27 Tabled until June 2008 by RWSTC

1353 Standard:

1354 The R3-10, ~~R3-10b~~, R3-13, and R3-13a Vehicle Occupancy Definition signs shall be used
1355 ~~in situations~~ where agencies determine that it is appropriate to provide a sign that defines
1356 the ~~operational strategy (such as~~ minimum occupancy ~~or types of vehicles) that is being~~
1357 ~~used to manage or regulate the vehicles that are~~ permitted allowed to use a preferential only
1358 an HOV or managed lane. this paragraph was relocated from Section 2B.26

1359 Guidance:

1360 The Inherently Low Emission Vehicle (ILEV) (~~R3-10b~~ R3-10a) sign should be used ~~to~~
1361 ~~indicate that~~ when it is permissible for a properly labeled and certified ILEV, regardless of the
1362 number of occupants, to use an HOV lane. When used, the ILEV signs should be ~~ground-~~ post-
1363 mounted edited to increase consistency in advance of and at intervals along the HOV lane based
1364 upon engineering judgment and the placement of other Preferential Lane regulatory signs. The
1365 ~~R3-10b~~ R3-10a sign is only applicable to HOV lanes and should not to be used with other
1366 preferential ~~only~~ lane applications. this paragraph was relocated from Section 2B.26

1367 Support:
1368 ~~Inherently low emission vehicles~~ ILEVs are defined by the Environmental Protection Agency
1369 (EPA) as vehicles having no fuel vapor (hydrocarbon) emissions. ~~These vehicles must and are~~
1370 ~~certified by the EPA as~~ meeting the emissions standards and requirements specified in 40 CFR
1371 88-311-93 and 40 CFR 88.312-93(c). ~~this paragraph was relocated from Section 2B.26~~

1372 Guidance:

1373 The legend format of the R3-10 and R3-13 signs should have ~~this~~ the following sequence:
1374 ~~this paragraph was relocated from Section 2B.26~~

- 1375 A. Top Line: "HOV 2+ ONLY" (or 3+ or 4+ if appropriate)
1376 B. Bottom Lines: "2 OR MORE PERSONS PER VEHICLE" (or 3 or 4 if appropriate)

1377 The legend format of the R3-13a sign should have the following sequence:

- 1378 A. Top Line: "HOV 2+ ONLY" (or 3+ or 4+ if appropriate)
1379 B. Middle Lines: "2 OR MORE PERSONS PER VEHICLE" (or 3 or 4 if appropriate)
1380 C. Bottom Lines: Times and days the occupancy restriction is in effect

1381 Support:

1382 Section 2B.32 contains information regarding modifications of the legends of Vehicle
1383 Occupancy Definition signs when single-occupant ETC-equipped vehicles are allowed to
1384 use an HOV lane by paying a toll fee.

1385 **Standard:**

1386 For barrier- or buffer-separated preferential lanes, an overhead Vehicle Occupancy
1387 Definition (R3-13 or R3-13a) sign, ~~which defines the occupancy requirement,~~ shall be
1388 installed at least 800 m (0.5 mi) in advance of the beginning of or initial entry point to an
1389 HOV lane. These signs shall only be displayed in advance of the beginning of or initial
1390 entry point to HOV lanes. ~~this paragraph was relocated from Section 2B.28~~

1391 Option:

1392 For barrier-separated ~~preferential only~~ HOV lanes, the sequence of a post-mounted Periods of
1393 Operation (R3-11a) sign followed by a ~~ground-~~ post-mounted ~~edited to increase consistency~~
1394 Vehicle Occupancy Definition (R3-10) signs ~~defining the occupancy requirement may be~~
1395 ~~alternated in series with Preferential Only Lane Operational (R3-11, R3-11a, R3-11b, or R3-11c)~~
1396 ~~signs. These signs~~ may be located at intervals of approximately ~~1 km~~ 800 m (0.6 0.5 mi) along
1397 the length of the ~~preferential only~~ HOV lane, at intermediate entry points, and at designated
1398 enforcement areas as defined by the operating agency. ~~this paragraph was relocated from Section~~
1399 ~~2B.28~~

1400 **Standard:**

1401 For buffer-separated HOV lanes, the sequence of a post-mounted Periods of Operation
1402 (R3-11a) sign followed by a ~~Ground-~~ post-mounted ~~edited to increase consistency~~ Vehicle
1403 Occupancy Definition (R3-10) signs ~~defining the occupancy requirement~~ shall be located
1404 ~~and alternated with Preferential Only Lane Operational (R3-11 series) signs in series~~ at
1405 intervals not greater than ~~1 km~~ 800 m (0.6 0.5 mi) along the length of the ~~preferential only~~
1406 buffer-separated HOV lane, at designated gaps in the buffer where vehicles are allowed to
1407 legally access the ~~preferential only~~ HOV lane, and within designated enforcement areas as
1408 defined by the operating agency. ~~this sentence came from a paragraph in Section 2B.28~~

1409 For ~~concurrent flow preferential only~~ contiguous HOV lanes, the sequence of a post-
1410 mounted Periods of Operation (R3-11a) sign followed by a ~~ground-~~ post-mounted ~~edited to~~

1411 **increase consistency** Vehicle Occupancy Definition (R3-10) signs ~~defining the occupancy~~
1412 ~~requirement, and ILEV (R3-10a) signs if appropriate,~~ shall be located ~~and alternated with~~
1413 ~~Preferential Only Lane Operational (R3-11 series) signs in series~~ at intervals not greater
1414 than ~~1 km~~ **800 m (0.6 0.5 mi)** along the length of the ~~preferential only~~ **HOV** lane. **this**
1415 **paragraph was relocated from Section 2B.28**

1416 Guidance:

1417 The signs within each Preferential Lane regulatory sign sequence should be separated by a
1418 distance of not less than 245 m (800 ft) and not more than 300 m (1,000 ft).

1419 Standard:

1420 For all types of direct access ramps that provide access to or lead to ~~preferential only~~
1421 ~~HOV lanes, a~~ **ground-** ~~post-mounted~~ **edited to increase consistency** Vehicle Occupancy
1422 Definition (R3-10) sign ~~defining the occupancy requirement,~~ and an ILEV (R3-10a) sign if
1423 appropriate, ~~and a Preferential Only Lane Operational (R3-11 series) sign~~ shall be used at
1424 the beginning or initial entry point for all types of the direct access ramps ~~that provide~~
1425 ~~access or lead to preferential only lanes.~~ **this paragraph was relocated from Section 2B.28**

1426 Standard:

1427 ~~The requirements for a minimum number of occupants in a vehicle to use an HOV lane~~
1428 ~~shall be in effect for most, or all, of at least one of the usual times of the day when the~~
1429 ~~demand to travel is greatest (such as morning or afternoon peak travel periods) and the~~
1430 ~~traffic congestion problems on the roadway and adjoining transportation corridor are at~~
1431 ~~their worst.~~

1432 ~~The Federal Highway Administration (FHWA) shall be consulted if a significant~~
1433 ~~operational change is proposed that could reasonably be expected to affect a specific HOV~~
1434 ~~lane or portions of the HOV system that were funded or approved by FHWA. This shall~~
1435 ~~include portions of the local, regional, or Federal aid highway system, where operational~~
1436 ~~changes might significantly impact the operation of one HOV lane or portions of the~~
1437 ~~regional HOV system. To assure consistency with the provisions of Titles 23 and 49 of the~~
1438 ~~United States Code (U.S.C), the important issues and possible impacts of any significant~~
1439 ~~operational changes shall be reviewed to determine if any Federal approval is required.~~

1440 ~~In accordance with the “Federal Aid Highway Program Guidance on High Occupancy~~
1441 ~~Vehicle (HOV) Lanes” (see Section 1A.11), a proposed test or demonstration project that~~
1442 ~~seeks to significantly change the operation of the HOV lanes for any length of time shall~~
1443 ~~require a Federal review as outlined in Section 2 of the “Federal Aid Highway Program~~
1444 ~~Guidance on High Occupancy Vehicle (HOV) Lanes” prior to initiating such a test or~~
1445 ~~demonstration project. Also in accordance with the Federal Aid Highway Program~~
1446 ~~Guidance on HOV lanes, any proposal to significantly change the operation of an HOV lane~~
1447 ~~shall require some form of Federal review, which might require potential action.~~

1448 Support:

1449 ~~FHWA Division Offices, with involvement from the Federal Transit Administration (FTA),~~
1450 ~~are responsible for reviewing proposals to significantly change the operation of HOV lanes.~~
1451 ~~Federal interests in this review include commitments made during the National Environmental~~
1452 ~~Policy Act process as described in Title 23 CFR, Part 771, in project agreements, transportation~~
1453 ~~planning requirements, and transportation conformity requirements under the Clean Air Act (40~~
1454 ~~CFR, Part 51).~~

1455 ~~Proposals to adjust only the HOV lane hours of operation during the day (for example, minor~~
1456 ~~changes in hours during peak travel periods) or the occupancy requirements (for example, HOV~~
1457 ~~3+ to HOV 2+) are not typically considered significant operational changes and might not require~~
1458 ~~an explicit Federal review or approval.~~

1459 ~~Any action that has the potential to adversely affect the area's flow of traffic, roadway and~~
1460 ~~traveler safety, or the environment might be considered to be a significant operational change.~~
1461 ~~Any proposal to significantly adjust the hours of operation, or to convert an HOV lane to a~~
1462 ~~general purpose travel lane, would be considered a significant operational change to the original~~
1463 ~~project design concept or scope. Examples of significant operational changes could include:~~
1464 ~~A. Switching from 24-hour HOV lane operations to only a portion of the day or week;~~
1465 ~~B. Implementing a pricing option to an existing HOV lane (such as HOT lane or toll lane);~~
1466 ~~C. Significantly reducing the hours of operation of an HOV lane that is operational during~~
1467 ~~only one peak travel period, or~~
1468 ~~D. Managing or operating the HOV lane in a manner that renders it functionally inoperable~~
1469 ~~or obsolete (such as not providing enforcement of the occupancy requirement).~~

1470 **Guidance:**

1471 ~~An engineering study based on the current and estimated future travel demand for a corridor~~
1472 ~~and facility should be the basis for determining when, during a typical day, there should be a~~
1473 ~~minimum occupancy requirement for a vehicle to use an HOV lane.~~

1474 **Support:**

1475 ~~Inherently low-emission vehicle (ILEV) eligibility, testing and certification requirements,~~
1476 ~~labeling, and other regulatory provisions are developed and administered through the~~
1477 ~~Environmental Protection Agency (EPA). EPA is the only entity with the authority to certify~~
1478 ~~ILEVs. Vehicle manufacturers must request the EPA to grant an ILEV certification for any~~
1479 ~~vehicle to be considered and labeled as meeting those standards. According to the EPA, 1996~~
1480 ~~was the first year that they certified any ILEVs. EPA regulations specify that ILEVs must meet~~
1481 ~~the emission standards specified in 40 CFR 88.311-93 and their labeling must be in accordance~~
1482 ~~with 40 CFR 88.312-93(c). EPA established the ILEV concept to recognize vehicles with no fuel~~
1483 ~~vapor (hydrocarbons) emissions. Zero-emission vehicles (electric-powered vehicles) that have no~~
1484 ~~emissions are the only other type of clean fuel vehicles that are allowed to use HOV lanes.~~

1485 **Standard:**

1486 ~~Agencies shall permit a vehicle with less than the required number of occupants to~~
1487 ~~operate on HOV lanes if:~~

- 1488 ~~A. The vehicle is properly labeled and certified as an ILEV and the lane is not a bus~~
1489 ~~only HOV lane, or~~
1490 ~~B. The HOV lanes are part of a project that is participating in the FHWA Value~~
1491 ~~Pricing Pilot Program (see Section 2 of the "Federal Aid Highway Program~~
1492 ~~Guidance on High Occupancy Vehicle (HOV) Lanes").~~

1493 ~~Motorcycles shall be permitted to use HOV lanes that receive Federal aid program~~
1494 ~~funding.~~

1495

1496 **Section 2B.28 Preferential Only Lane Periods of Operation Signs Applications and**
1497 **Placement (R3-11 Series and R3-14 Series)**

1498 **Section 2B.28 Tabled by RWSTC until June 2008**

1499 **Guidance:**

1500 The sizes of ~~the ground-~~ post-mounted **edited to increase consistency** **Preferential Only Lane**
1501 **Operational Periods of Operation** (R3-11 series) signs should remain consistent to accommodate
1502 any manual addition or **subtraction** **removal** of a single line of text for each sign. **this paragraph**
1503 **was relocated from Section 2B.26**

1504 **Support:**

1505 Consistent sign sizes are beneficial for agencies when ordering sign materials, as well as
1506 when making text changes to existing signs if changes occur to operating times or occupancy
1507 restrictions in the future. For example, the R3-11c sign has space for one line located below “24
1508 HOURS” if an agency desires to add additional information (such as “MON – FRI”), yet the R3-
1509 11c sign has the same dimensions as the other R3-11 series signs. ~~this paragraph was relocated~~
1510 ~~from Section 2B.26~~

1511 **Standard:**

1512 When used, the ~~ground- post-mounted~~ ~~edited to increase consistency~~ ~~Preferential Only~~
1513 ~~Lane Operational Periods of Operation~~ (R3-11 series) signs shall be located adjacent to the
1514 preferential ~~only~~ lane, and the overhead ~~Preferential Only Lane Operational Periods of~~
1515 ~~Operation~~ (R3-14 series) signs shall be mounted directly over the lane. ~~this paragraph was~~
1516 ~~relocated from Section 2B.26~~

1517 The legend format of the ~~ground- post-mounted~~ ~~edited to increase consistency~~
1518 ~~Preferential Only Lane Operational Periods of Operation~~ (R3-11 series) signs shall have the
1519 following sequence: ~~this paragraph was relocated from Section 2B.26~~

- 1520 A. Top Lines: Lanes applicable, such as “RIGHT LANE” or “2 RIGHT ~~2~~ LANES” or
1521 “THIS LANE”
1522 B. Middle Lines: Eligible uses, such as “HOV 2+ ONLY” (or 3+ or 4+ if appropriate)
1523 or “BUSES ONLY” or other applicable uses or eligible turning movements
1524 C. Bottom Lines: Applicable times and days, such as “7 AM – 9 AM” or “6:30 AM –
1525 9:30 AM, MON-FRI”

1526 The legend format of the overhead ~~Preferential Only Lane Operational Periods of~~
1527 ~~Operation~~ (R3-14 series) signs shall have the following sequence: ~~this paragraph was~~
1528 ~~relocated from Section 2B.26~~

- 1529 A. Top Line: Eligible uses, such as “HOV 2+ ONLY” (or 3+ or 4+ if appropriate) or
1530 “BUSES ONLY” or other ~~types of vehicles~~ applicable uses or eligible turning
1531 movements
1532 B. Bottom Lines: Applicable times and days, with the time and day placed above the
1533 down arrow, such as “7 AM – 9 AM” or “6:30 AM – 9:30 AM, MON-FRI” (When
1534 the operating periods exceed the available line width, the hours and days of the
1535 week shall be stacked as shown for the R3-14a sign in Figure 2B-8.)

1536 Option:

1537 Where additional movements are permitted from a preferential ~~only~~ lane on an approach to an
1538 intersection, the format and words used in the legend in the middle lines on the ~~ground- post-~~
1539 ~~mounted~~ ~~edited to increase consistency~~ ~~Preferential Only Lane Operational Periods of Operation~~
1540 (R3-11 series) signs and on the top line of the overhead ~~Preferential Only Lane Operational~~
1541 ~~Periods of Operation~~ (R3-14 series) signs may be modified to accommodate the permitted
1542 movements (such as “HOV 2+ AND RIGHT TURNS ONLY”). ~~this paragraph was relocated~~
1543 ~~from Section 2B.26~~

1544 A MOTORCYCLES ALLOWED (R3-11P) plaque may be used where motorcycles,
1545 regardless of the number of occupants, are allowed to use an HOV lane.

1546 **Standard:**

1547 If used, the MOTORCYCLES ALLOWED plaque shall be mounted below a post-
1548 mounted Preferential Lane Periods of Operation (R3-11, R3-11a, or R3-11c) sign.

1549 For all barrier-separated and buffer-separated preferential ~~only~~ lanes, an overhead
1550 ~~Preferential Only Lane Operational Periods of Operation~~ (R3-14 series) sign shall be used
1551 at the beginning or initial entry point, and at any intermediate ~~access~~ entry points or gaps in
1552 the barrier where vehicles are allowed to legally access the barrier-separated or buffer-

1553 separated preferential ~~only~~ lanes. For all barrier-separated and buffer-separated
1554 preferential lanes, ~~Ground- post-mounted~~ **edited to increase consistency** ~~Preferential-Only~~
1555 ~~Lane-Operational~~ Periods of Operation (R3-11 series) signs shall be used only as a
1556 supplement to the overhead signs at the beginning or initial entry point, or at any
1557 intermediate ~~access~~ entry points or gaps in the barrier or buffer.

1558 ~~For buffer-separated preferential only lanes (painted buffer of 0.6 m (2 ft) or more), an~~
1559 ~~overhead Preferential-Only Lane Operational (R3-14 series) sign shall be used at the~~
1560 ~~beginning or initial entry point, and at intermediate access points or gaps where vehicles are~~
1561 ~~allowed to legally access the buffer-separated preferential only lane. **this paragraph was**~~
1562 ~~**incorporated into the previous paragraph**~~

1563 For contiguous preferential lanes, including those where a preferential lane is added to
1564 the roadway (see Figure 2E-39 for HOV lanes) and those where a general purpose lane
1565 transitions into a preferential lane (see Figure 2E-40 for HOV lanes), an overhead Periods
1566 of Operation (R3-14 Series) sign shall be used at the beginning or initial entry point of the
1567 preferential lane.

1568 Guidance:

1569 Overhead (R3-14 series) or post-mounted (R3-11 series) Periods of Operation signs should be
1570 installed at periodic intervals along the length of a contiguous preferential lane.

1571 Option:

1572 Additional overhead (R3-14 series) or post-mounted (R3-11 series) Periods of Operation
1573 signs may be provided along the length of any type of preferential lane.

1574 On conventional roads, the overhead Periods of Operation (R3-14 series) signs may be
1575 installed at the beginning or entry points and/or at intermediate points along preferential lanes in
1576 any geometric configuration.

1577 Standard:

1578 For all types of direct access ramps that provide access to or lead to preferential lanes, a
1579 post-mounted Periods of Operation (R3-11 series) sign shall be used at the beginning or
1580 initial entry point of the direct access ramp.

1581 Option:

1582 For direct access ramps to preferential ~~only~~ lanes, an overhead ~~Preferential-Only Lane~~
1583 ~~Operational~~ Periods of Operation (R3-14 series) sign may be used at the beginning or initial entry
1584 point to supplement the required ~~ground- post-mounted~~ **edited to increase consistency** signs.

1585 Lane-use control signals (see Chapter 4M) may be used at access points to preferential lanes
1586 to indicate that a ramp or access roadway leading to the preferential lane or facility, or one or
1587 more specific lanes of the facility, are open or closed.

1588 Standard:

1589 ~~A ground-mounted Preferential-Only Lane Operational (R3-11, R3-11a, R3-11b, or R3-~~
1590 ~~11d) sign shall be installed at the beginning, initial entry point, intermediate access points,~~
1591 ~~and direct access ramps to all types of preferential only lanes. The overhead Preferential~~
1592 ~~Only Lane Operational (R3-14 series) signs shall be installed only at the beginning or initial~~
1593 ~~entry point to all types of preferential only lanes.~~

1594 Option:

1595 ~~Additional ground-mounted Preferential-Only Lane (R3-10, R3-11, R3-11a, R3-11b, or R3-~~
1596 ~~11e) signs may be provided along the length of a preferential only lane.~~

1597 ~~For barrier-separated reversible flow preferential only lanes, Preferential-Only Lane signs~~
1598 ~~may be either static or changeable message type.~~

1599 ~~For buffer-separated preferential only lanes, overhead Preferential Only Lane Operational~~
1600 ~~(R3-14 series) signs may be used at specific locations and intervals along the length of the~~
1601 ~~preferential only lane to supplement the ground-mounted R3-10 signs defining the occupancy~~
1602 ~~requirement and the Preferential Only Lane Operational (R3-11 series) signs based on an~~
1603 ~~engineering study.~~

1604 ~~For concurrent-flow preferential only lanes, overhead Preferential Only Lane Operational~~
1605 ~~(R3-14 series) signs may be used at specific locations and intervals along the length of the~~
1606 ~~preferential only lane to supplement the ground-mounted R3-10 signs defining the occupancy~~
1607 ~~requirement and the Preferential Only Lane Operational (R3-11 series) signs based on an~~
1608 ~~engineering study.~~

1609 ~~Support:~~

1610 ~~Section 2B.26 contains provisions regarding the use of changeable message signs for~~
1611 ~~preferential only lanes.~~

1612 Section 2B.29 Preferential Lane Advance Signs (R3-12, R3-12e, R3-12f, R3-15 R3- 1613 15a, and R3-15d)

1614 **Section 2B.29 Tabled by RWSTC until June 2008**

1615 Guidance:

1616 The Preferential ~~Only~~ Lane ~~Ahead Advance~~ (R3-10a, R3-12, R3-12e, R3-12f, and R3-15, R3-
1617 15a, and R3-15d) signs should be used for advance notification of a general purpose lane that
1618 becomes a preferential ~~only~~ lanes (see Figure 2E-40). **this paragraph was relocated from Section**
1619 **2B.26**

1620 The Preferential Lane Advance (R3-12, R3-12f, R3-15, and R3-15d) signs should be used for
1621 advance notification of a barrier-separated, buffer-separated, or contiguous preferential lane that
1622 is added to the general purpose lanes.

1623 Option:

1624 The legends on the R3-12f and R3-15d signs may be modified to suit the type of preferential
1625 lane.

1626 ~~Overhead Preferential Only Lane Ahead (R3-15) signs may be placed approximately 1.6 km~~
1627 ~~(1 mi) and 3.2 km (2 mi) in advance of the beginning or initial entry points to any type of~~
1628 ~~preferential only lane. **this paragraph was relocated from Section 2B.28**~~

1629 ~~The ground-mounted Preferential Only Lane Ahead (R3-12) sign may be installed at a~~
1630 ~~minimum of 1.6 km (1 mi) in advance of the beginning or initial entry point to any type of~~
1631 ~~preferential only lane. **this paragraph was relocated from Section 2B.28**~~

1632 Guidance:

1633 ~~For all barrier-separated preferential only lanes, an overhead Preferential Only Lane Ahead~~
1634 ~~(R3-15) sign should be installed and located at least 1.6 km (1 mi) in advance of the beginning or~~
1635 ~~initial entry point. **this paragraph was relocated from Section 2B.28**~~

1636 On conventional roads, for general purpose lanes that become preferential lanes, a post-
1637 mounted (R3-12e) or overhead (R3-15a) Preferential Lane Advance sign should be installed in
1638 advance of the beginning of or initial entry point to the preferential lane at a distance determined
1639 by engineering judgment based on prevailing speed, traffic characteristics, and other site-specific
1640 considerations. The distance selected should provide adequate opportunity for ineligible vehicles
1641 to vacate the lane prior to the beginning of the restriction.

1642 On freeways and expressways, for general purpose lanes that become preferential lanes, an
1643 overhead Preferential Lane Advance (R3-15a) sign should be installed at least 1.6 km (1 mi) in
1644 advance of the beginning of the preferential lane restriction.

1645 Option:
1646 Additional post-mounted or overhead Preferential Lane Advance signs may be placed farther
1647 in advance of or closer to the beginning or initial entry points to a preferential lane.

1648

1649 Section 2B.30 Preferential Lane Ends Signs (R3-12a, R3-12b, R3-12c, R3-12d, R3-
1650 12g, R3-12h, R3-15b, R3-15c, and R3-15e)

1651 **Section 2B.30 Tabled by RWSTC until June 2008**

1652 **Standard:**

1653 ~~The A ground-~~ post-mounted **edited to increase consistency** ~~Preferential Only~~ Lane
1654 Ends ~~800 m (1/2 Mile)~~ (R3-12b or R3-12h) sign shall be installed at least 800 m (0.5 mi) in
1655 advance of the termination of ~~an HOV~~ a preferential lane. **this paragraph was relocated**
1656 **from Section 2B.28**

1657 Except as noted in the Option below, ~~The a ground-~~ post-mounted **edited to increase**
1658 **consistency** ~~Preferential Only~~ Lane Ends (R3-12a or R3-12g) sign shall be installed at the
1659 point where ~~the a preferential only~~ lane and restriction ends and traffic must merge into the
1660 general purpose lanes.

1661 ~~All longitudinal pavement markings, as well as word and symbol pavement markings,~~
1662 ~~associated with the preferential only lane shall end where the R3-12a sign designating the~~
1663 ~~end of the preferential only lane restriction is installed.~~ **this deleted sentence is now covered**
1664 **in Chapter 3B**

1665 A post-mounted Preferential Lane Ends (R3-12d) sign shall be installed at least 800 m
1666 (0.5 mi) in advance of the point where a preferential lane restriction ends and the lane
1667 becomes a general purpose lane.

1668 Except as noted in the Option below, a post-mounted Preferential Lane Ends (R3-12c)
1669 sign shall be installed at the point where a preferential lane restriction ends and the lane
1670 becomes a general purpose lane.

1671 Option:

1672 An overhead Preferential Lane Ends (R3-15b or R3-15e) sign may be installed instead of or
1673 in addition to a post-mounted R3-12a or R3-12g sign at the point where a preferential lane and
1674 restriction ends and traffic must merge into the general purpose lanes.

1675 An overhead Preferential Lane Ends (R3-15c) sign may be installed instead of or in addition
1676 to a post-mounted R3-12c sign at the point where the preferential lane restriction ends and the
1677 lane becomes a general purpose lane.

1678

1679 Section 2B.31 Regulatory Signs for Toll Plazas

1680 **Section 2B.31 Tabled by RWSTC until June 2008**

1681 Support:

1682 Toll plaza operations often include lane-specific restrictions on vehicle type, forms of
1683 payment accepted, and speed limits or required stops. Vehicles are typically required to come to
1684 a stop to pay the toll in the cash payment and exact change lanes. Electronic toll collection (ETC)
1685 lanes with favorable geometrics typically allow vehicles to move through the toll plaza without
1686 stopping, but usually within a set regulatory speed limit or advisory speed. In some ETC lanes,

1687 [vehicles might be required to stop while their ETC payment is processed due to geometric or](#)
1688 [other conditions.](#)

1689 [Guidance:](#)

1690 [Regulatory signs applicable only to a particular lane or lanes should be located in a position](#)
1691 [that makes their applicability clear to road users approaching the toll plaza.](#)

1692 [Regulatory signs, or regulatory panels within guide signs, indicating any restrictions on](#)
1693 [vehicle type and forms of toll payment accepted at a specific toll plaza lane should be installed](#)
1694 [over the applicable lane either on the toll plaza canopy or on a separate structure immediately in](#)
1695 [advance of the canopy.](#)

1696 [Support:](#)

1697 [Section 2E.55 contains information regarding the incorporation of regulatory messages into](#)
1698 [guide signs for toll plazas.](#)

1699 [Standard:](#)

1700 [For lanes approaching, within, or adjacent to a toll plaza that are reserved exclusively](#)
1701 [for vehicles equipped with electronic toll collection \(ETC\) transponders, the ETC](#)
1702 [\(pictograph\) ONLY – NO CASH \(R3-16\) regulatory lane-use sign \(see Figure 2B-9\) shall be](#)
1703 [installed over the approach lane\(s\) with a down arrow located directly over the](#)
1704 [approximate center of each such lane. This sign shall also be installed over the Open Road](#)
1705 [ETC Only lanes on an approach to a divergence for a separate alignment on which a toll](#)
1706 [plaza for cash toll payments is located \(see Section 2E.57 and Figure 2E-52\).](#)

1707 [The ETC \(pictograph\) ONLY – NO CASH \(R3-16\) sign shall incorporate a top header](#)
1708 [panel with a purple background and white border. Within the header panel, the pictograph](#)
1709 [adopted by the toll facility's ETC payment system \(such as E-Z Pass or SunPass\) shall be on](#)
1710 [a white rectangular or square underlay panel and the black legend ONLY shall be on a](#)
1711 [separate rectangular white panel. The bottom portion of the sign shall have a white](#)
1712 [background and black border with the black legend NO CASH and one black down arrow](#)
1713 [for each applicable lane.](#)

1714 [The ETC \(pictograph\) ONLY – NO CASH \(R3-16\) sign for an ETC only facility that](#)
1715 [accepts nationally interoperable transponders shall also incorporate the nationally](#)
1716 [interoperable ETC symbol \(M8-3\) shown in Figure 2E-50. The M8-3 symbol shall only be](#)
1717 [used on signs for ETC facilities that accept electronic payment from any toll operator's](#)
1718 [ETC transponder.](#)

1719 [Guidance:](#)

1720 [One or more Speed Limit \(R2-1\) signs \(see Section 2B.13\) should be installed in appropriate](#)
1721 [locations for an ETC Only lane at a toll plaza in which an enforceable regulatory speed limit is](#)
1722 [established for a lane in which it is intended that vehicles move through the toll plaza without](#)
1723 [stopping while toll fee payment processing occurs in other lanes at the toll plaza. The speed limit](#)
1724 [displayed on the signs should be based on an engineering study taking into account the geometry](#)
1725 [of the plaza and the lanes and other appropriate safety and operational factors.](#)

1726 [A Speed Limit \(R2-1\) sign should not be installed for a toll plaza lane for which a STOP \(R1-](#)
1727 [1\) sign is used or for which a stop is required.](#)

1728 [Option:](#)

1729 [Speed limit signs may be installed over the applicable lane on the toll plaza canopy, on the](#)
1730 [approach end of the toll booth island, on the toll booth itself, or on a vertical element of the](#)
1731 [canopy structure. Downward or diagonally downward pointing arrows may be used to](#)
1732 [supplement the speed limit signs if an engineering study or engineering judgment indicates that](#)
1733 [the arrow is needed to clarify the applicability of the signs or to improve compliance.](#)

1734 **Standard:**
1735 **A STOP (R1-1) sign shall not be installed for a toll plaza lane that is operated as an**
1736 **ETC Only lane and that is designed for tolls to be collected while vehicles continue moving.**

1737 **Option:**

1738 **A STOP (R1-1) sign may be installed to require vehicles to come to a complete stop to pay a**
1739 **toll in an attended or exact change lane, even if that lane is also available for optional use by**
1740 **vehicles with an ETC transponder. A PAY TOLL (R3-29P) or TAKE TICKET (R3-30P) plaque**
1741 **(see Figure 2B-9), as appropriate to the operation, may be installed directly under the STOP (R1-**
1742 **1) sign for a toll plaza cash lane, if needed.**

1743 **The mounting height of the STOP sign and any supplemental plaque may be less than the**
1744 **normal mounting height requirements if constrained by the physical features of the toll island or**
1745 **toll plaza.**

1746 **The lateral offset of a STOP or other regulatory sign located within a toll plaza island may be**
1747 **reduced to a minimum of 0.3 m (1 ft) from the face of the toll island or raised barrier to the**
1748 **nearest edge of the sign.**

1749 **Guidance:**

1750 **If used, a STOP (R1-1) sign for a toll plaza cash payment lane should be located in a**
1751 **longitudinal position as near as practical to the point where a vehicle is expected to stop to pay**
1752 **the toll or take a ticket.**

1753 **Option:**

1754 **A Toll Rate Schedule (R3-28) sign (see Figure 2B-9) may be installed a short distance in**
1755 **advance of the toll plaza to indicate the toll fees applicable to the various vehicle types.**

1756 **Guidance:**

1757 **If used, the Toll Rate Schedule (R3-28) sign should be located approximately 30 to 60 m (100**
1758 **to 200 ft) in advance of the toll plaza.**

1759 **The R3-28 sign should not contain more than three lines of text.**

1760

1761

1762

1763 **Section 2B.32 Regulatory Signs for Managed Lanes and ETC Only Lanes**

1764 **Section 2B.32 Tabled by RWSTC until June 2008**

1765 **Support:**

1766 **A managed lane is a highway lane (or set of lanes) or a highway facility for which one or**
1767 **more variable operational strategies, such as tolling, pricing, vehicle type and/or occupancy**
1768 **requirements, and direction of travel, are implemented and managed in real time in response to**
1769 **changing conditions.**

1770 **A managed lane might be on a separate alignment, might be barrier-separated or buffer-**
1771 **separated from the general purpose lanes, or might be contiguous with the general purpose lanes.**

1772 **Under certain operational strategies, a managed lane is a special type of Preferential lane (see**
1773 **Sections 2B.26 through 2B.30).**

1774 **Standard:**

1775 **The provisions of Sections 2B.26 through 2B.30 regarding regulatory signs for**
1776 **Preferential lanes shall apply to managed lanes operated at all times or at certain times with**
1777 **fixed or variable vehicle occupancy requirements (HOV), vehicle type restrictions, and/or a**
1778 **toll fee payment requirement to use the lane(s). Such managed lanes shall use changeable**

1779 message signs or changeable message elements within static signs to display the appropriate
1780 regulatory sign messages only when they are in effect.

1781 When a single-occupant vehicle equipped with an ETC transponder is allowed to use an
1782 HOV lane by paying a toll fee, the Vehicle Occupancy Definition (R3-13 or R3-13a) signs
1783 (see Section 2B.27) shall be modified to include the pictograph adopted by the facility's ETC
1784 payment system (such as E-Z Pass or SunPass) to indicate the allowable use (see Figure 2B-
1785 10). Also in this case, regulatory signs shall be used to indicate the toll fee charged for such
1786 vehicles. If the toll fee varies, regulatory signs that include changeable message elements,
1787 such as the R3-31 and R3-32 signs that are illustrated in Figure 2B-10, shall be used to
1788 display the actual toll amount or rate in effect at any given time.

1789 When only vehicles equipped with an ETC transponder are allowed to use a managed
1790 lane or any tolled facility, regulatory signs to indicate such a restriction shall be provided
1791 and shall incorporate the pictograph adopted by the toll facility's ETC payment system and
1792 the word ONLY. If incorporated within the white background of a regulatory sign or
1793 within the green background of a guide sign, the ETC pictograph shall be on a white
1794 rectangular or square panel set on a purple backplate with a white border as shown in
1795 Figures 2B-10 and 2E-54. If used on a header panel within a regulatory or guide sign, the
1796 ETC pictograph shall have a white border and the header panel shall have a purple
1797 background with a white border as shown on the R3-16 signs in Figure 2B-9.

1798 When certain types of vehicles (such as trucks or motorcycles) are prohibited from
1799 using a managed lane or when a managed lane is restricted to use by only certain types of
1800 vehicles during certain operational strategies, regulatory signs or regulatory panels within
1801 the appropriate guide signs that include changeable message elements shall be used to
1802 display the open/closed status of the managed lane for such vehicle types.

1803 When the vehicle occupancy required for use of an HOV lane is varied as a part of a
1804 managed lane operational strategy, regulatory signs that include changeable message
1805 elements shall be used to display the required vehicle occupancy in effect.

1806
1807
1808

1809 Section 2B.33 Jughandle Signs (R3-23, R3-24, R3-25, and R3-26 Series)

1810 **SECTION 2B.33 TABLED by RWSTC until June 2008**

1811 Support:

1812 A jughandle turn is a left-turn or U-turn that because of special geometry is made by initially
1813 making a right turn. This type of turn can increase the operational efficiency of a roadway by
1814 eliminating the need for exclusive left-turn lanes and can increase the operational efficiency of a
1815 traffic control signal by eliminating the need for protected left-turn phases. A jughandle turn can
1816 also provide an opportunity for trucks and commercial vehicles to make a U-turn where the
1817 median and roadway are not of sufficient width to accommodate a traditional U-turn by these
1818 vehicles.

1819 Figure 2B-12 shows examples of regulatory and destination guide signing for various types of
1820 jughandle turns.

1821 Standard:

1822 On multi-lane roadways, since road users generally anticipate that they need to be in
1823 the left-hand lane when approaching a location where they desire to turn left or make a U-
1824 turn, an ALL TURNS FROM RIGHT LANE (R3-23) or a U TURN FROM RIGHT LANE

1825 (R3-23a) sign (see Figure 2B-11) shall be installed in advance of the location to inform
1826 drivers that left turns and/or U-turns will be made from the right-hand lane.

1827 Option:

1828 Where a median of sufficient width is available, supplemental regulatory or guide signs may
1829 also be placed on the left-hand side of the roadway.

1830 Standard:

1831 An R3-24 series sign (see Figure 2B-11) with an upward diagonal arrow pointing to the
1832 right if the jughandle entrance is designed as an exit ramp or an R3-25 series sign (see
1833 Figure 2B-11) with a horizontal arrow pointing to the right if the jughandle entrance is
1834 designed as an intersection shall be installed on the right-hand side of the roadway at the
1835 entrance to the jughandle. The legend on the sign shall be ALL TURNS, U TURN, or U
1836 AND LEFT TURNS, as appropriate.

1837 If the jughandle is designed such that the jughandle entrance is downstream of the
1838 location where the turn would normally have been made (see Drawing C of Figure 2B-11),
1839 an R3-26 series sign (see Figure 2B-11) with an arrow pointing straight upward shall be
1840 installed on the right-hand side of the roadway at the intersection to inform road users that
1841 they need to proceed straight through the intersection in order to make a left turn or U-
1842 turn. The legend on the sign shall be U TURN or U AND LEFT TURNS, as appropriate.

1843 Support:

1844 The R3-24, R3-25, and R3-26 series of signs are designed to be mounted below conventional
1845 guide signs.

1846 Section 2C.14 contains information regarding the use of advisory exit and ramp speed signs
1847 for exit ramps.

1848

1849 **Section ~~2B.29~~ 2B.34 Do Not Pass Sign (R4-1)**

1850 **Approved by Council 1-12-08**

1851 Option:

1852 The Do Not Pass (R4-1) sign (see Figure 2B-13) may be used in addition to pavement
1853 markings (see Section 3B.02) to emphasize the restriction on passing. The Do Not Pass sign may
1854 be used at the beginning of, and at intervals within, a zone through which sight distance is
1855 restricted or where other conditions make overtaking and passing inappropriate.

1856 A DO NOT PASS (R4-1P) educational plaque (see Figure 2B-13) may be mounted below the
1857 R4-1 symbol sign.

1858 A DO NOT PASS (R4-1a) word message sign (see Figure 2B-13) may be used instead of the
1859 symbol sign.

1860 If signing is needed on the left-hand **added for increased clarity** side of the roadway for
1861 additional emphasis, NO PASSING ZONE (W14-3) signs may be used (see Section 2C.47).

1862 Support:

1863 Standards for determining the location and extent of no-passing zone pavement markings are
1864 set forth in Section 3B.02.

1865 **Section 2B.35 DO NOT PASS WHEN SOLID LINE IS ON YOUR SIDE Sign (R4-**
1866 **15)**

1867 **Approved by Council 1-12-08 to delete Section 2B.35 in it's entirety as shown in**
1868 **yellow. Reason for deleting Section 2B.35 – The No Passing Pennant W14-3**

1869 warning sign may be installed for this situation to warn drivers when they
1870 should not pass. State Statutes typically indicate that solid yellow line on their
1871 side means DO NOT PASS. Part 3 of MUTCD also indicates this already.

1872 Option:

1873 ~~The DO NOT PASS WHEN SOLID LINE IS ON YOUR SIDE (R4-15) sign (see Figure 2B-~~
1874 ~~13) may be installed to remind road users of the meaning of the solid yellow center line for no-~~
1875 ~~passing zones.~~

1876 Section 2B.36 DO NOT DRIVE ON SHOULDER Sign (R4-17) and DO NOT PASS
1877 ON SHOULDER Sign (R4-18)

1878 **Approved by Council 1-12-08**

1879 Option:

1880 The DO NOT DRIVE ON SHOULDER (R4-17) sign (see Figure 2B-13) may be installed to
1881 inform road users that using the shoulder of a roadway as a travel lane is prohibited.

1882 The DO NOT PASS ON SHOULDER (R4-18) sign (see Figure 2B-13) may be installed to
1883 inform road users that using the shoulder of a roadway to pass other vehicles is prohibited.

1884 **Section ~~2B.30~~ 2B.37 PASS WITH CARE Sign (R4-2)**

1885 **Approved by Council 1-12-08**

1886 Guidance:

1887 The PASS WITH CARE (R4-2) sign (see Figure 2B-13) should be installed at the
1888 downstream end of a no-passing zone if a Do Not Pass sign has been installed at the ~~beginning~~
1889 upstream end of the zone.

1890 **Section ~~2B.34~~ 2B.38 SLOWER TRAFFIC KEEP RIGHT Sign (R4-3) and KEEP**
1891 **RIGHT EXCEPT TO PASS Sign (R4-16)**

1892 **Section 2B.38 Tabled until June 2008 by RWSTC**

1893 Option:

1894 The SLOWER TRAFFIC KEEP RIGHT (R4-3) sign (see Figure 2B-13) or the KEEP RIGHT
1895 EXCEPT TO PASS (R4-16) sign (see Figure 2B-13) may be used on multi-lane roadways to
1896 reduce unnecessary lane changing.

1897 Guidance:

1898 If used, the SLOWER TRAFFIC KEEP RIGHT or the KEEP RIGHT EXCEPT TO PASS
1899 sign should be installed just beyond the beginning of a multi-lane pavement, and at selected
1900 locations where there is a tendency on the part of some road users to drive in the left-hand
1901 lane (or lanes) below the normal speed of traffic. This sign should not be used
1902 on the approach to an interchange or through an interchange area.

1903

1904 **Section ~~2B.32~~ 2B.39 ~~Slow Moving Traffic~~ TRUCKS USE RIGHT LANE Signs (R4-**
1905 **5, R4-6)**

1906 **Approved by Council 1-12-08**

1907 ~~Support:~~

1908 ~~The Slow Moving Traffic Lane signs (see Figure 2B-8) are used to direct vehicles into an~~
1909 ~~extra lane that has been provided for slow moving vehicles.~~

1910 Guidance:

1911 If an extra lane has been provided for [trucks and other](#) slow-moving traffic, a SLOWER
1912 TRAFFIC KEEP RIGHT (R4-3) sign ([see Figure 2B-13](#)), TRUCKS USE RIGHT LANE (R4-5)
1913 sign ([see Figure 2B-13](#)), or other appropriate sign should be installed at the beginning of the lane.
1914 ~~A TRUCK LANE (R4-6) sign, with the appropriate distance shown should be installed in~~
1915 ~~advance of the lane.~~

1916 Option:

1917 The SLOWER TRAFFIC KEEP RIGHT sign may be used as a supplement or as an
1918 alternative to the TRUCKS USE RIGHT LANE sign. Both signs may be used on multi-lane
1919 roadways to improve capacity and reduce lane changing.

1920 [The TRUCKS USE RIGHT LANE \(R4-5\) sign may be used on multi-lane roadways to](#)
1921 [reduce unnecessary lane changing.](#)

1922 Guidance:

1923 If an extra lane has been provided for [trucks and other](#) slow-moving traffic, a Lane Ends sign
1924 (see Section 2C.41) should be installed in advance of the point where the extra lane ends.
1925 Appropriate pavement markings should be installed at both the ~~beginning upstream~~ and ~~the~~
1926 [downstream](#) ends of the extra lane (see Section 3B.09 and Figure 3B-13).

1927 [Support:](#)

1928 [Section 2D.53 contains information regarding advance information signs for extra lanes that](#)
1929 [have been provided for trucks and other slow-moving traffic.](#)

1930 **Section ~~2B.33~~ 2B.40 Keep Right and Keep Left Signs (R4-7, R4-8)**

1931 **Approved by Council 1-12-08**

1932 Option:

1933 The Keep Right (R4-7) sign (see Figure 2B-13) may be used at locations where it is
1934 necessary for traffic to pass only to the right [hand side](#) [edited to increase clarity](#) of a roadway
1935 feature or obstruction. The Keep Left (R4-8) sign (see Figure 2B-13) may be used at locations
1936 where it is necessary for traffic to pass only to the left [hand side](#) [edited to increase clarity](#) of a
1937 roadway feature or obstruction.

1938 Guidance:

1939 [At locations where it is not readily apparent that traffic is required to keep to the right, a Keep](#)
1940 [Right sign should be used.](#)

1941 If used, the Keep Right sign should be installed as close as practical to approach ends of
1942 raised medians, parkways, islands, [and](#) underpass piers, ~~and at other locations where it is not~~
1943 ~~readily apparent that traffic is required to keep to the right.~~ The sign should be mounted on the
1944 face of or just in front of a pier or other obstruction separating opposite directions of traffic in the
1945 center of the highway such that traffic will have to pass to the right [hand side](#) [edited to increase](#)
1946 [clarity](#) of the sign.

1947 **Standard:**

1948 **The Keep Right sign shall not be installed on the right [hand](#) [edited to increase clarity](#)**
1949 **side of the roadway in a position where traffic must pass to the left [hand side](#) [edited to](#)**
1950 **[increase clarity](#) of the sign.**

1951 Option:

1952 The Keep Right sign may be omitted at intermediate ends of divisional islands and medians.

1953 Word message KEEP RIGHT (LEFT) with an arrow (R4-7a or R4-7b) signs (see Figure 2B-
1954 13) may be used instead of the R4-7 or R4-8 symbol signs.

1955 Where the obstruction obscures the Keep Right sign, the minimum placement height may be
1956 increased for better sign visibility.

1957 A narrow Keep Right (R4-7c) sign (see Figure 2B-13) may be installed on the nose of a
1958 median island where the median width is too narrow to accommodate an R4-7 sign that is 600
1959 mm (24 in) wide.

1960 **Standard:**

1961 A narrow Keep Right (R4-7c) sign shall not be installed on a median island that has a
1962 width of 1.8 m (6 ft) or more at the point where the sign is to be located.

1963 **Section 2B.41 STAY IN LANE Sign (R4-9)**

1964 **Approved by Council 1-12-08 with modifications shown in yellow**

1965 **Option:**

1966 A STAY IN LANE (R4-9) sign (see Figure 2B-13) may be used on multi-lane highways to
1967 direct road users to stay in their lane until conditions permit shifting to another lane.

1968 **Guidance:**

1969 If a STAY IN LANE sign is used, it should be accompanied by a double solid white lane
1970 line(s) to prohibit lane changing, or a single solid white lane line(s) to discourage lane changing
1971 in that section of roadway.

1972 Reason for change to Section 2B.41 – The STAY IN LANE sign is regulatory (mandatory);
1973 therefore a single solid white line would not be appropriate since it only discourages lane
1974 changing rather than prohibiting lane changing.

1975

1976 **Section 2B.42 RUNAWAY VEHICLES ONLY Sign (R4-10)**

1977

1978 **Section 2B.42 Tabled by RWSTC until June 2008**

1979 **Guidance:**

1980 A RUNAWAY VEHICLES ONLY (R4-10) sign (see Figure 2B-13) should be installed near
1981 a truck escape (or runaway truck) ramp entrance to discourage other road users from entering the
1982 ramp.

1983

1984 **Section 2B.43 Slow Vehicle Turn-Out Signs (R4-12, R4-13, and R4-14)**

1985 **Section 2B.43 Tabled until June 2008 by RWSTC**

1986 **Support:**

1987 On two-lane highways in areas where traffic volumes and/or vertical or horizontal curvature
1988 make passing difficult, turn-out areas are sometimes provided for the purpose of giving a group of
1989 faster vehicles an opportunity to pass a slow-moving vehicle.

1990 **Option:**

1991 A SLOW VEHICLES WITH XX OR MORE FOLLOWING VEHICLES MUST USE
1992 TURN-OUT (R4-12) sign (see Figure 2B-13) may be installed in advance of a turn-out area to
1993 inform drivers who are driving so slow that they have accumulated a specific number of vehicles
1994 behind them that they are required to use the turn-out to allow the vehicles following them to
1995 pass.

1996 **Support:**

1997 [The specific number of vehicles displayed on the R4-12 sign provides law enforcement](#)
1998 [personnel with the information they need to enforce this regulation.](#)

1999 [Option:](#)

2000 [If an R4-12 sign has been installed in advance of a turn-out area, a SLOW VEHICLES](#)
2001 [MUST USE TURN-OUT AHEAD \(R4-13\) sign \(see Figure 2B-13\) may also be installed](#)
2002 [downstream from the R4-12 sign, but upstream from the turn-out area, to remind slow drivers that](#)
2003 [they are required to use a turn-out that is a short distance ahead.](#)

2004 [Standard:](#)

2005 [If an R4-12 sign has been installed in advance of a turn-out area, a SLOW VEHICLES](#)
2006 [MUST TURN OUT \(with arrow\) \(R4-14\) sign \(see Figure 2B-13\) shall be installed at the](#)
2007 [entry point of the turn-out area.](#)

2008 [Support:](#)

2009 [Section 2D.54 contains information regarding advance information signs for slow vehicle](#)
2010 [turn-out areas.](#)

2011

2012

2013 **Section ~~2B.34~~ [2B.44](#) DO NOT ENTER Sign (R5-1)**

2014 **Approved by Council 1-12-08**

2015 **Standard:**

2016 **The DO NOT ENTER (R5-1) sign (see Figure 2B-14) shall be used where traffic is**
2017 **prohibited from entering a restricted roadway.**

2018 **Guidance:**

2019 The DO NOT ENTER sign, if used, should be placed directly in view of a road user at the
2020 point where a road user could wrongly enter a divided highway, one-way roadway, or ramp (see
2021 Figure 2B-15). The sign should be mounted on the right-[hand](#) [edited to increase clarity](#) side of
2022 the roadway, facing traffic that might enter the roadway or ramp in the wrong direction.

2023 If the DO NOT ENTER sign would be visible to traffic to which it does not apply, the sign
2024 should be turned away from, or shielded from, the view of that traffic.

2025 **Option:**

2026 The DO NOT ENTER sign may be installed where it is necessary to emphasize the one-way
2027 traffic movement on a ramp or turning lane.

2028 A second DO NOT ENTER sign on the left side of the roadway may be used, particularly
2029 where traffic approaches from an intersecting roadway (see Figure 2B-15).

2030 [Support:](#)

2031 [Section 2B.48 contains information regarding an optional lower mounting height for DO](#)
2032 [NOT ENTER signs that are located along the exit ramp facing a road user who is traveling in the](#)
2033 [wrong direction.](#)

2034 **Section ~~2B.35~~ [2B.45](#) WRONG WAY Sign (R5-1a)**

2035 **Approved by Council 1-12-08**

2036 **Option:**

2037 The WRONG WAY (R5-1a) sign (see Figure 2B-14) may be used as a supplement to the DO
2038 NOT ENTER sign where an exit ramp intersects a crossroad or a crossroad intersects a one-way
2039 roadway in a manner that does not physically discourage or prevent wrong-way entry (see Figure
2040 2B-15).

2041 Guidance:

2042 If used, the WRONG WAY sign should be placed at a location along the exit ramp or the

2043 one-way roadway farther from the crossroad than the DO NOT ENTER sign (see Section 2E.49).

2044 Support:

2045 Section 2B.48 contains information regarding an optional lower mounting height for

2046 WRONG WAY signs that are located along the exit ramp facing a road user who is traveling in

2047 the wrong direction.

2048 **Section ~~2B.36~~ 2B.46 Selective Exclusion Signs**

2049 **Approved by Council 1-12-08 with modification shown in yellow.**

2050 Support:

2051 Selective Exclusion signs (see Figure 2B-14) give notice to road users that State or local

2052 statutes or ordinances exclude designated types of traffic from using particular roadways or

2053 facilities.

2054 **Standard:**

2055 **If used, Selective Exclusion signs shall clearly indicate the type of traffic that is**

2056 **excluded.**

2057 Support:

2058 Typical exclusion messages include:

2059 A. No Trucks (R5-2),

2060 B. NO MOTOR VEHICLES (R5-3),

2061 C. NO COMMERCIAL VEHICLES ~~EXCLUDED~~ (R5-4),

2062 D. NO TRUCKS (VEHICLES) WITH LUGS ~~PROHIBITED~~ (R5-5),

2063 E. No Bicycles (R5-6),

2064 F. NO NON-MOTORIZED TRAFFIC ~~PROHIBITED~~ (R5-7),

2065 G. NO MOTOR-DRIVEN CYCLES ~~PROHIBITED~~ (R5-8), and

2066 H. No Hazardous Material ~~Prohibited~~ (R14-3) (see Section 2B.67).

2067 Option:

2068 Appropriate combinations or groupings of these legends into a single sign, such as NO

2069 PEDESTRIANS BICYCLES MOTOR-DRIVEN CYCLES ~~PROHIBITED~~ (R5-10a), or NO

2070 PEDESTRIANS ~~AND OR~~ BICYCLES ~~PROHIBITED~~ (R5-10b) may be used.

2071 Guidance:

2072 If an exclusion is governed by vehicle weight, a Weight Limit sign (see Section 2B.64)

2073 should be used instead of a Selective Exclusion sign.

2074 The Selective Exclusion sign should be placed on the right-hand edited to increase clarity

2075 side of the roadway at an appropriate distance from the intersection so as to be clearly visible to

2076 all road users turning into the roadway that has the exclusion. The NO PEDESTRIANS

2077 ~~PROHIBITED~~ (R5-10c) or No Pedestrian Crossing (R9-3~~a~~) sign (see Section 2B.58) added to

2078 assist the reader should be installed so as to be clearly visible to pedestrians at a location where an

2079 alternative route is available.

2080 Option:

2081 The NO TRUCKS (R5-2a) sign may be used as an alternate to the No Trucks (R5-2) symbol

2082 sign.

2083 The NO PEDESTRIANS ~~PROHIBITED~~ (R5-10c) or No Pedestrian Crossing (R9-3~~a~~) sign

2084 may also be used at underpasses or elsewhere where pedestrian facilities are not provided.

2085 The AUTHORIZED VEHICLES ONLY (R5-13) or the FOR OFFICIAL USE ONLY (R5-
2086 14) sign may be used at median openings and other locations to prohibit vehicles from using the
2087 median opening or facility unless they have special permission (such as law enforcement vehicles
2088 or emergency vehicles) or are performing official business (such as highway agency **maintenance**
2089 vehicles).

2090 Reason for change to 2B.46 – other highway agency vehicles other than maintenance could be
2091 authorized.

2092 **Section ~~2B.37~~ 2B.47 ONE WAY Signs (R6-1, R6-2)**

2093 **Approved by Council 1-12-08 with modifications shown in yellow.**

2094 **Standard:**

2095 Except as noted in the Option, the ONE WAY (R6-1 or R6-2) sign (see Figure 2B-16)
2096 shall be used to indicate streets or roadways upon which vehicular traffic is allowed to
2097 travel in one direction only.

2098 ONE WAY signs shall be placed parallel to the one-way street at all alleys and
2099 roadways that intersect one-way roadways as shown in Figures 2B-17 through 2B-20.

2100 **Guidance:**

2101 ~~Where~~ At intersections with divided highways ~~are separated by median widths at the~~
2102 ~~intersection itself of 9 m (30 ft) or more,~~ ONE WAY signs ~~should~~ shall be placed, visible to
2103 each crossroad approach, on the near right, ~~and~~ far left, ~~and~~ far right corners of each
2104 intersection with the directional roadways as shown in Figures ~~2B-12 and~~ 2B-18 through
2105 2B-20.

2106 **Option:**

2107 ONE WAY signs may be omitted on the one-way roadways of divided highways, where the
2108 design of interchanges indicates the direction of traffic on the separate roadways.

2109 ONE WAY signs may be omitted on the medians (see Figures 2B-19 and 2B-20) at
2110 intersections with divided highways that have median widths at the intersection itself of less than
2111 9 m (30 ft).

2112 A BEGIN ONE WAY (R6-XX) sign may be used to denote the start point of one-way
2113 traffic regulations along a street or roadway. An END ONE WAY (R6-XY) sign may be
2114 used to denote the end point of one-way traffic regulations along a street or roadway.
2115 The R6-XY END ONE WAY sign may be used in addition to the W6-3 Two-Way
2116 Traffic sign (Section 2C.34).

2117
2118 **Support:**

2119 Typically, the END ONE WAY (R6-XY) sign is placed on the near side of the
2120 intersection or location where the one way street ends.

2121
2122 **ADD BEGIN ONE WAY and END ONE WAY signs to Figure 2B-16.**

2123
2124 Reason for change to Figure 2B-16 – To provide a sign detail to correspond with Section
2125 2B.47.

2126
2127 **Standard:**

2128 At unsignalized intersections, ONE WAY signs shall be placed on the near right and the
2129 far left corners of the intersection facing traffic entering or crossing the one-way street (see
2130 [Figure 2B-17, Sheet 1 of 2](#)).

2131 At signalized intersections, ONE WAY signs shall be placed ~~either~~ **grammar – more**
2132 **than two choices** near the appropriate signal faces, on the poles holding the traffic signals,
2133 on the mast arm or span wire holding the signals, or at the locations specified for
2134 unsignalized intersections.

2135 At unsignalized T-intersections where the roadway at the top of the T-intersection is a
2136 one-way roadway, ONE WAY signs shall be placed on the near right and the far side of the
2137 intersection facing traffic on the stem approach (see Figure 2B-17, Sheet 2 of 2).

2138 At signalized T-intersections where the roadway at the top of the T-intersection is a one-
2139 way roadway, ONE WAY signs shall be placed near the appropriate signal faces, on the
2140 poles holding the traffic signals **or** on the mast arm or span wire holding the signals, or at
2141 the locations specified for unsignalized intersections.

2142 Option:

2143 Where the central island of a roundabout allows for the installation of signs, ONE WAY
2144 signs may be used instead of or in addition to Roundabout Directional Arrow (R6-4 series) signs
2145 (see Section 2B.50) to direct traffic counter-clockwise around the central island.

2146 Guidance:

2147 Where used on the central island of a roundabout, the mounting height of a ONE WAY sign
2148 should be at least 1.2 m (4 ft), measured vertically from the bottom of the sign to the elevation of
2149 the near edge of the traveled way.

2150 Support:

2151 Using ONE WAY signs on the central island of a roundabout might result in some drivers
2152 incorrectly concluding that the cross street is a one-way street. Using Roundabout Directional
2153 Arrow signs might reduce this confusion. However, using ONE WAY signs might be necessary
2154 in States that have defined a roundabout as a series of T-intersections.

2155 Reason for change to 2B.47 – Editorial.

2156 **Section 2B.48 Wrong-Way Traffic Control at Interchange Ramps** text was
2157 **relocated from Section 2E.50 because it relates more to regulatory signs rather**
2158 **than guide signs**

2159 **Approved by Council 1-12-08**

2160 **Standard:**

2161 At interchange exit ramp terminals where the ramp intersects a crossroad in such a
2162 manner that wrong-way entry could inadvertently be made, the following signs shall be
2163 used (see Figure 2B-21):

- 2164 A. At least one ONE WAY sign for each direction of travel on the crossroad shall be
2165 placed where the exit ramp intersects the crossroad.
- 2166 B. At least one DO NOT ENTER sign shall be conspicuously placed near the
2167 downstream end of the exit ramp in positions appropriate for full view of a road
2168 user starting to enter wrongly from the crossroad.
- 2169 C. At least one WRONG WAY sign shall be placed on the exit ramp facing a road user
2170 traveling in the wrong direction.

2171 **Guidance:**

2172 In addition, the following pavement markings should be used (see Figure 2B-21):

- 2173 A. On two-lane paved crossroads at interchanges, double solid yellow lines should be used
2174 as a ~~centerline~~ [center line](#) for an adequate distance on both sides approaching the ramp
2175 intersections.
2176 B. Where crossroad channelization or ramp geometrics do not make wrong-way movements
2177 difficult, a lane-use arrow should be placed in each lane of an exit ramp near the
2178 crossroad terminal where it will be clearly visible to a potential wrong-way road user.

2179 Option:

2180 The following traffic control devices may be used to supplement the above signs and
2181 pavement markings:

- 2182 A. Additional ONE WAY signs may be placed, especially on two-lane rural crossroads,
2183 appropriately in advance of the ramp intersection to supplement the required ONE WAY
2184 sign(s).
2185 B. Additional WRONG WAY signs may be used.
2186 C. Slender, elongated wrong-way arrow pavement markings (see Figure 3B-24) intended
2187 primarily to warn wrong-way road users that they are traveling in the wrong direction
2188 may be placed upstream from the ramp terminus (see Figure 2B-21) to indicate the
2189 correct direction of traffic flow. Wrong-way arrow pavement markings may also be
2190 placed on the exit ramp at appropriate locations near the crossroad junction to indicate
2191 wrong-way movement. The wrong-way arrow markings may consist of pavement
2192 markings or bidirectional red-and-white raised pavement markers or other units that show
2193 red to wrong-way road users and white to other road users (see Figure 3B-24).
2194 D. Lane-use arrow pavement markings may be placed on the exit ramp and crossroad near
2195 their intersection to indicate the permissive direction of flow.
2196 ~~E. Guide signs or may be used on entrance ramps near the crossroad to inform road users of~~
2197 ~~the freeway or expressway entrance, as appropriate (see Figure 2E-37). relocated to~~
2198 [Section 2D.48](#)
2199 [E. Freeway entrance signs \(see Section 2D.48\) may be used.](#)

2200 Guidance:

2201 On interchange entrance ramps where the ramp merges with the through roadway and the
2202 design of the interchange does not clearly make evident the direction of traffic on the separate
2203 roadways or ramps, a ONE WAY sign visible to traffic on the entrance ramp and through
2204 roadway should be placed on each side of the through roadway near the entrance ramp merging
2205 point as illustrated in Figure 2B-22.

2206 Option:

2207 At locations where engineering judgment determines that a special need exists, other standard
2208 warning or prohibitive methods and devices may be used as a deterrent to the wrong-way
2209 movement.

2210 [Where there are no parked cars, pedestrian activity or other obstructions such as snow or](#)
2211 [vegetation, and if an engineering study indicates that a lower mounting height would address](#)
2212 [wrong-way movements on freeway or expressway exit ramps, a DO NOT ENTER sign\(s\) and/or](#)
2213 [a WRONG WAY sign\(s\) that is located along the exit ramp facing a road user who is traveling in](#)
2214 [the wrong direction may be installed at a minimum mounting height of 0.9 m \(3 ft\), measured](#)
2215 [vertically from the bottom of the sign to the elevation of the near edge of the pavement.](#)

2216 Support:

2217 Section 2B.49 contains further information on signing to avoid wrong-way movements at at-
2218 grade intersections on expressways.

2219

2220 **Section ~~2B.38~~ 2B.49 Divided Highway Crossing Signs (R6-3, R6-3a)**

2221 **SECTION 2B-49 TABLED by RWSTC until June 2008**

2222 **Option Standard:**

2223 On unsignalized minor-street approaches from which both left turns and right turns are
2224 permitted onto a divided highway, except as noted in the Option below, a ~~The~~ Divided
2225 Highway Crossing (R6-3 or R6-3a) sign (see Figure 2B-16) ~~may~~ shall be used to advise road
2226 users that they are approaching an intersection with a divided highway.

2227 Option:

2228 If the divided highway has a traffic volume of less than 400 AADT and a speed limit of 40
2229 km/h (25 mph) or less, the Divided Highway Crossing signs facing the minor-street approaches
2230 may be omitted.

2231 A Divided Highway Crossing sign may be used on signalized minor-street approaches from
2232 which both left turns and right turns are permitted onto a divided highway to advise road users
2233 that they are approaching an intersection with a divided highway.

2234
2235 **Standard:**

2236 ~~When the~~ **If a** edited to increase accuracy **Divided Highway Crossing sign is used at a**
2237 **four-legged intersection, the R6-3 sign shall be used. ~~When~~ **If** edited to increase accuracy**
2238 **used at a T-intersection, the R6-3a sign shall be used.**

2239 **Option:**

2240 **The Divided Highway Crossing sign ~~may~~ shall be located on the near right corner of the**
2241 **intersection, ~~and may be~~ mounted beneath a STOP or YIELD sign or on a separate support.**

2242 Option:

2243 An additional Divided Highway Crossing sign may be installed on the left-hand side of the
2244 approach to supplement the Divided Highway Crossing sign on the near right corner of the
2245 intersection.

2246
2247
2248

2249 **Section 2B.50 Roundabout Directional Arrow Signs (R6-4, R6-4a, and R6-4b)**

2250 **Approved by Council 1-12-08 with modifications shown in yellow**

2251 Guidance:

2252 Where the central island of a roundabout allows for the installation of signs, Roundabout
2253 Directional Arrow (R6-4 series) signs should be used in the central island to direct traffic counter-
2254 clockwise around the central island, except as noted in the Option in Section 2B.47 and as noted
2255 in the Option below.

2256 **Standard:**

2257 The R6-4 sign (see Figure 2B-23) shall be a horizontal rectangle with two black
2258 chevrons pointing to the right on a white background. The R6-4a sign (see Figure 2B-23)
2259 shall be a horizontal rectangle with three black chevrons pointing to the right on a white
2260 background. The R6-4b sign (see Figure 2B-23) shall be a horizontal rectangle with four
2261 black chevrons pointing to the right on a white background. No border shall be used on the
2262 Roundabout Directional Arrow signs.

2263 Roundabout Directional Arrow signs shall be used only at roundabouts and other
2264 circular intersections.

2265 Guidance:
2266 When used on the central island of a roundabout, the mounting height of a Roundabout
2267 Directional Arrow sign should be at least 1.2 m (4 ft), measured vertically from the bottom of the
2268 sign to the elevation of the near edge of the traveled way.

2269 Option:
2270 Wider chevrons within the Roundabout Directional Arrow sign. More than one Roundabout
2271 Directional Arrow sign, and/or R6-4a or R6-4b signs may be used facing high-speed approaches,
2272 facing approaches with limited visibility, or in other circumstances as determined by engineering
2273 judgment where increased sign visibility would be appropriate.

2274 Reason for change to 2B.50 – Not clear what Wider chevrons means. Is it wider sign or
2275 wider black portion of sign? Rather, change to “more” so it is clear what it means.

2276 Section 2B.51 Roundabout Circulation Plaque (R6-5P)

2277 Approved by Council 1-12-08

2278 Guidance:
2279 Where the central island of a roundabout does not provide a reasonable place to install a sign,
2280 Roundabout Circulation (R6-5P) plaques (see Figure 2B-23) should be placed below the YIELD
2281 signs on each approach.

2282 Option:
2283 At roundabouts where Roundabout Directional Arrow signs and/or ONE WAY signs have
2284 been installed in the central island, Roundabout Circulation plaques may be placed below the
2285 YIELD signs on approaches to roundabouts to supplement the central island signs.

2286 The Roundabout Circulation plaque may be used at any type of circular intersection.

2287 Section 2B.52 Examples of Roundabout Signing

2288 Approved by Council 1-12-08 with modifications shown in yellow

2289 Support:
2290 Figures 2B-24 through 2B-26 illustrate examples of regulatory and warning signing for
2291 roundabouts of various configurations.

2292 Chapter 2D contains information regarding guide signing at roundabouts and Chapter 3C
2293 contains information regarding pavement markings at roundabouts.

2294
2295 Roundabout task force 1-9-08 recommended that Figure 2B-24 increase the size of the plaque
2296 that says 7th ave. It is hard to read this.. Change figure 2B-23 and 2B-25 also.

2297 The figures 2B-25 and 26 dropped the use of the KEEP RIGHT sign as optional - under the
2298 left side YIELD sign. Roundabout task force recommended that this be adding back in to what
2299 was approved by Council in January 2007.

2300 Figure 2B-26 label the roundabout warning sign as optional to be consistent with figure 2B-
2301 25. along with the plaque under it.

2302 Figure 2C-10 – label as optional W16-12P and W16-17P so consistent with other plaques
2303 like the one in figure 7B-1 and others.

2304 Reasons for change to figures are noted above.

2305 Section ~~2B.39~~ 2B.53 Parking, Standing, and Stopping Signs (R7 and R8 Series)

2306 Approved by Council 1-12-08

2307 Support:

2308 Signs governing the parking, stopping, and standing of vehicles cover a wide variety of
2309 regulations, and only general guidance can be provided here. The word “standing” when used on
2310 the R7 and R8 series of signs refers to the practice of a driver keeping the vehicle in a stationary
2311 position while continuing to occupy the vehicle. Typical examples of parking, stopping, and
2312 standing signs and plaques added to increase accuracy (see Figures 2B-27 and 2B-28) are as
2313 follows: signs and plaques added to list in order to provide a complete list of the signs and
2314 plaques shown in previous Figures 2B-16 and 2B-17

- 2315 1. NO PARKING ANY TIME (R7-1);
- 2316 2. NO PARKING ~~8:30~~ X:XX AM TO ~~5:30~~ X:XX PM (R7-2, R7-2a);
- 2317 3. NO PARKING EXCEPT SUNDAYS AND HOLIDAYS (R7-3);
- 2318 4. NO STANDING ANY TIME (R7-4);
- 2319 5. ~~ONE~~ XX HOUR PARKING ~~9~~ X:XX AM-~~7~~ X:XX PM (R7-5);
- 2320 6. NO PARKING LOADING ZONE (R7-6);
- 2321 7. NO PARKING BUS STOP (R7-7, R7-107, R7-107a);
- 2322 8. RESERVED PARKING for persons with disabilities (R7-8);
- 2323 9. VAN ACCESSIBLE (R7-8aP, R7-8bP);
- 2324 10. Pay Station (R7-20);
- 2325 11. Pay Parking or Pay to Park (R7-21, R7-21a, R7-22, R7-22a);
- 2326 12. Parking Permitted X:XX AM TO X:XX PM (R7-23);
- 2327 13. Parking Permitted XX HOUR(S) XX AM – XX PM (R7-23a);
- 2328 14. XX HR PARKING X:XX AM TO X:XX PM (R7-108);
- 2329 15. NO PARKING ANYTIME /XX HOUR PARKING X:XX AM – X:XX PM (R7-200,
2330 R7-200a);
- 2331 16. TOW-AWAY ZONE (R7-201P, R7-201aP);
- 2332 17. THIS SIDE OF SIGN (R7-202P);
- 2333 18. EMERGENCY SNOW ROUTE NO PARKING IF OVER XX mm (INCHES) (R7-203);
- 2334 19. NO PARKING ON PAVEMENT (R8-1);
- 2335 20. NO PARKING EXCEPT ON SHOULDER (R8-2);
- 2336 21. NO PARKING (R8-3, R8-3a);
- 2337 ~~1. No Parking (R8-3a), and~~
- 2338 22. EXCEPT SUNDAYS & HOLIDAYS (R8-3bP);
- 2339 23. ON PAVEMENT (R8-3cP);
- 2340 24. ON BRIDGE (R8-3dP);
- 2341 25. ON TRACKS (R8-3eP);
- 2342 26. EXCEPT ON SHOULDER (R8-3fP);
- 2343 27. LOADING ZONE (R8-3gP);
- 2344 28. X:XX AM TO X:XX PM (R8-3hP);
- 2345 29. EMERGENCY PARKING ONLY (R8-4);
- 2346 30. NO STOPPING ON PAVEMENT (R8-5);
- 2347 31. NO STOPPING EXCEPT ON SHOULDER (R8-6); and
- 2348 32. EMERGENCY STOPPING ONLY (R8-7).

2349 **Section ~~2B.40~~ 2B.54 Design of Parking, Standing, and Stopping Signs**

2350 **Approved by Council 1-12-08 with modifications shown in yellow**

2351 Support:

2352 Discussions of parking signs and parking regulations in this Section apply not only to
2353 parking, but also to standing and stopping.

2354 **Standard:**

2355 The legend on parking signs shall state applicable regulations. Parking signs ([see](#)
2356 [Figures 2B-27 and 2B-28](#)) shall ~~conform to~~ comply with the standards of shape, color, and
2357 location.

2358 Where parking is prohibited at all times or at specific times, the basic design for
2359 parking signs shall have a red legend and border on a white background (Parking
2360 Prohibition signs), except that the R8-4 and R8-7 signs and the alternate design for the R7-
2361 201aP plaque shall have a black legend and border on a white background, and the R8-3a
2362 sign shall have a black legend and border and a red circle and slash on a white background.

2363 Where only limited-time parking or parking in a particular manner are permitted, the
2364 signs shall have a green legend and border on a white background (Permissive Parking
2365 signs).

2366 Guidance:

2367 Parking signs should display the following information from top to bottom of the sign, in the
2368 order listed:

- 2369 A. The restriction or prohibition;
- 2370 B. The times of the day that it is applicable, if not at all hours; and
- 2371 C. The days of the week that it is applicable, if not every day.

2372 If the parking restriction applies to a limited area or zone, the limits of the restriction should
2373 be shown by arrows or supplemental plaques. If arrows are used and if the sign is at the end of a
2374 parking zone, there should be a single-headed arrow pointing in the direction that the regulation is
2375 in effect. If the sign is at an intermediate point in a zone, there should be a double-headed arrow
2376 pointing both ways. When a single sign is used at the transition point between two parking zones,
2377 it should display a right and left arrow pointing in the direction that the respective restrictions
2378 apply.

2379 Where special parking restrictions are imposed during heavy snowfall, ~~Snow~~ Emergency
2380 [Snow Route \(R7-203\)](#) signs ([see Figure 2B-27](#)) should be installed. The legend will vary
2381 according to the regulations, but the signs should be vertical rectangles, having a white
2382 background with the upper part of the plate a red background.

2383 **Standard:**

2384 Where parking spaces that are reserved for persons with disabilities are designated to
2385 accommodate wheelchair vans, a VAN ACCESSIBLE (~~R7-8b~~ [R7-8aP](#)) **from errata list for**
2386 **2003 MUTCD** plaque ([see Figure 2B-27](#)) ~~should~~ shall be mounted below the R7-8 sign.
2387 **relocated and changed to Standard**

2388 **Guidance:**

2389 When used to direct drivers to van-accessible parking facilities, a VAN ACCESSIBLE (~~R7-~~
2390 ~~8a~~ [R7-8bP](#)) plaque ([see Figure 2B-27](#)) should be mounted below the ~~D4+~~ [D9-6](#) sign. **from errata**
2391 **list for 2003 MUTCD**

2392 **Standard:**

2393 The R7-8 sign ([see Figure 2B-27](#)) shall have a green legend and border and a white
2394 wheelchair symbol on a square blue panel, all on a white background. The R7-8aP plaque
2395 shall have a green legend and border on a white background. The R7-8bP plaque shall
2396 have a white legend and border on a blue background.

2397 Option:

2398 To minimize the number of parking signs, blanket regulations that apply to a given district
2399 may, if legal, be posted at district boundary lines.

2400 As an alternate to the use of arrows to show designated restriction zones, word messages such
2401 as BEGIN, END, HERE TO CORNER, HERE TO ALLEY, THIS SIDE OF SIGN, or
2402 BETWEEN SIGNS may be used.

2403 Where parking is prohibited during certain hours and time-limited parking or parking in a
2404 particular manner is permitted during certain other time periods, the red Parking Prohibition and
2405 green Permissive Parking signs may be designed as follows:

- 2406 A. Two 300 x 450 mm (12 x 18 in) parking signs may be used with the red Parking
2407 Prohibition sign installed above or to the left of the green Permissive Parking sign; or
- 2408 B. The red Parking Prohibition sign and the green Permissive Parking sign may be
2409 combined to form an R7-200 sign on a single 600 x 450 mm (24 x 18 in) sign, or [an R7-
2410 200a sign](#) on a single 300 x 750 mm (12 x 30 in) sign.

2411 At the transition point between two parking zones, a single sign or two signs mounted side by
2412 side may be used.

2413 The words NO PARKING may be used as an alternative to the No Parking symbol. The
2414 supplemental educational plaque, NO PARKING, with a red legend and border on a white
2415 background, may be used above signs incorporating the No Parking symbol.

2416 Alternate designs for the R7-107 sign may be developed such as the R7-107a sign (see Figure
2417 2B-27). Alternate designs may include, on a single ~~panel sign~~, **edited to increase accuracy** a
2418 transit logo, an approved bus symbol, a parking prohibition, the words BUS STOP, and an arrow.
2419 The preferred bus symbol color is black, but other dark colors may be used. Additionally, the
2420 transit logo may be ~~shown displayed~~ **edited to increase consistency** on the bus face in the
2421 appropriate colors instead of placing the logo separately. The reverse side of the sign may
2422 contain bus routing information.

2423 To make the parking regulations more effective and to improve public relations by giving a
2424 definite warning, a [TOW-AWAY ZONE \(R7-201P\) ~~sign~~ plaque](#) (see Figure 2B-27) ~~reading~~
2425 ~~TOW-AWAY ZONE (R7-201)~~ may be appended to, or incorporated in, any parking prohibition
2426 sign. The Tow-Away Zone (R7-201aP) symbol ~~sign~~ [plaque](#) may be used instead of the R7-201P
2427 word message ~~sign~~ [plaque](#). The R7-201aP ~~sign~~ [plaque](#) may have either a black or red legend and
2428 border on a white background.

2429 [Guidance:](#)

2430 [If a fee is charged for parking and a midblock pay station is used instead of individual
2431 parking meters for each parking space, pay parking signs should be used. Pay Parking \(R7-22 or
2432 R7-22a\) signs \(see Figure 2B-27\) should be used to define the area where the pay station parking
2433 applies. Pay Station \(R7-20\) signs \(see Figure 2B-27\) should be used at the pay station or to
2434 direct road users to the pay station.](#)

2435 **Option:**

2436 **Color-coding of time limits may be used if the colors are in conformance with Section 2A.10.**

2437 **Standard:**

2438 [If the pay parking is subject to a maximum time limit, the appropriate time limit
2439 \(number of hours or minutes\) shall be displayed on the Pay Parking \(R7-21 or R7-21a\) and
2440 Pay Station \(R7-20\) signs.](#)

2441 **Option:**

2442 In rural areas, the legends NO PARKING ON PAVEMENT (R8-1) [or NO STOPPING ON
2443 PAVEMENT \(R8-5\)](#) ~~is~~ **are** generally suitable and may be used. If a roadway has paved
2444 shoulders, the NO PARKING EXCEPT ON SHOULDER sign (R8-2) [or the NO STOPPING
2445 EXCEPT ON SHOULDER sign \(R8-6\)](#) may be used as ~~it is~~ **these signs would be** less likely to
2446 cause confusion. The R8-3a symbol sign or the word message NO PARKING (R8-3) sign may

2447 be used to prohibit any parking along a given highway. Word message supplemental plaques (see
2448 Figure 2B-28), ~~such as ON PAVEMENT (R8-3c) or ON BRIDGE (R8-3d)~~, may be mounted
2449 below the R8-3 or R8-3a sign. These word message supplemental plaques may include legends
2450 such as EXCEPT SUNDAYS & HOLIDAYS (R8-3bP), ON PAVEMENT (R8-3cP), ON
2451 BRIDGE (R8-3dP), ON TRACKS (R8-3eP), EXCEPT ON SHOULDERS (R8-3fP), LOADING
2452 ZONE (with arrow) (R8-3gP), and X:XX AM TO X:XX PM (with arrow) (R8-3hP).

2453 Reasons for change to 2B.54 – Council approved color coding language in 2007. It provides for
2454 clearer and quicker recognition by the driver for different hours.

2455 Section ~~2B.44~~ 2B.55 **Placement of Parking, Stopping, and Standing Signs**

2456 Approved by Council 1-12-08 with modifications shown in yellow

2457 Guidance:

2458 When signs with arrows are used to indicate the extent of the restricted zones, the signs
2459 should be set at an angle of not less than 30 degrees or more than 45 degrees with the line of
2460 traffic flow in order to be visible to approaching traffic.

2461 Spacing of signs should be based on legibility and sign orientation.

2462 If the zone is unusually long, signs showing a double arrow should be used at intermediate
2463 points within the zone.

2464 **Standard:**

2465 **If the signs are mounted at an angle of 90 degrees to the curb line, two signs shall be**
2466 **mounted back to back at the transition point between two parking zones, each with ~~the~~ an**
2467 **appended ~~message~~ THIS SIDE OF SIGN (R7-202P) supplemental plaque.**

2468 Guidance:

2469 If the signs are mounted at an angle of 90 degrees to the curb line, ~~At intermediate points~~
2470 ~~within a zone, a single~~ signs without any arrows or appended plaques should be used at
2471 intermediate points within a zone, facing in the direction of approaching traffic. Otherwise the
2472 standards of placement should be the same as for signs using directional arrows.

2473 Reason for change to 2B.55 – Consistent with approved language by Council in January 2007.
2474 Allows for installing more than one sign at intermediate points for longer blocks.

2475 Section ~~2B.42~~ 2B.56 **Emergency Restriction Signs (R8-4, R8-7, R8-8)**

2476 Approved by Council 1-12-08

2477 Option:

2478 The EMERGENCY PARKING ONLY (R8-4) sign (see Figure 2B-28) or the EMERGENCY
2479 STOPPING ONLY (R8-7) sign (see Figure 2B-28) may be used to discourage or prohibit
2480 shoulder parking, particularly where scenic or other attractions create a tendency for road users to
2481 stop temporarily, ~~even though~~ on the shoulder because a turnout or rest area ~~has~~ has not been
2482 provided.

2483 The DO NOT STOP ON TRACKS (R8-8) sign (see Figure 8B-4) may be used to discourage
2484 or prohibit parking or stopping on railroad tracks (see Section 8B.09).

2485 **Standard:**

2486 **Emergency Restriction signs shall be rectangular and shall have a red or black legend**
2487 **and border on a white background.**

2488 **Section ~~2B.43~~ 2B.57 WALK ON LEFT FACING TRAFFIC and No Hitchhiking**
2489 **Signs (R9-1, R9-4, R9-4a)**

2490 **Approved by Council 1-12-08**

2491 Option:

2492 The WALK ON LEFT FACING TRAFFIC (R9-1) sign (see Figure 2B-29) may be used on
2493 highways where no sidewalks are provided.

2494 **Standard:**

2495 **If used, the WALK ON LEFT FACING TRAFFIC sign shall be installed on the right-**
2496 **hand edited to increase clarity side of the road where pedestrians walk on the pavement or**
2497 **shoulder in the absence of pedestrian pathways or sidewalks.**

2498 Option:

2499 The No Hitchhiking (R9-4~~a~~) sign (see Figure 2B-29) may be used to prohibit standing in or
2500 adjacent to the roadway for the purpose of soliciting a ride. The R9-4~~a~~ word message sign (see
2501 Figure 2B-29) may be used as an alternate to the R9-4~~a~~ symbol sign.

2502 **Section ~~2B.44~~ 2B.58 Pedestrian Crossing Signs (R9-2, R9-3)**

2503 **Approved by Council 1-12-08**

2504 Option:

2505 Pedestrian Crossing signs (see Figure 2B-29) may be used to limit pedestrian crossing to
2506 specific locations.

2507 **Standard:**

2508 **If used, Pedestrian Crossing signs shall be installed to face pedestrian approaches.**

2509 Option:

2510 Where crosswalks are clearly defined, the CROSS ONLY AT CROSSWALKS (R9-2) sign
2511 may be used to discourage jaywalking or unauthorized crossing.

2512 The No Pedestrian Crossing (R9-3~~a~~) sign may be used to prohibit pedestrians from crossing a
2513 roadway at an undesirable location or in front of a school or other public building where a
2514 crossing is not designated.

2515 The NO PEDESTRIAN CROSSING (R9-3~~a~~) word message sign may be used as an alternate
2516 to the R9-3~~a~~ symbol sign. The USE CROSSWALK (R9-3b~~P~~) supplemental plaque, along with
2517 an arrow, may be installed below either sign to designate the direction of the crossing.

2518 Support:

2519 One of the most frequent uses of the Pedestrian Crossing signs is at signalized intersections
2520 that have three crossings that can be used and one leg that cannot be crossed.

2521 Guidance:

2522 The R9-3b~~P~~ ~~sign~~ plaque should not be installed in combination with educational plaques.

2523 Because pedestrians who have visual disabilities typically need additional guidance as to
2524 where not to cross, No Pedestrian Crossing (R9-3 and R9-3a) signs should be supplemented with
2525 detectable guidance, such as grass strips, landscaping, planters, fencing, rails, or barriers.

2526 **Section ~~2B.45~~ 2B.59 Traffic Signal Signs (R10-1 through ~~R10-21~~ R10-32P)**

2527

2528 **Section 2B.59 Tabled until June 2008 by RWSTC**

2529 Option:

2530 To supplement traffic signal control, Traffic Signal signs R10-1 through ~~R10-21~~ [R10-32P](#)
2531 may be used to regulate road users.

2532 ~~Guidance:~~

2533 ~~When used, Traffic Signal signs should be located adjacent to the signal face to which they~~
2534 ~~apply.~~ [deleted as locations near signal faces are now specifically specified where appropriate](#)

2535 **Standard:**

2536 **Traffic Signal signs applicable to pedestrian actuation (see Figure 2B-29) or bicyclist**
2537 **actuation (see Figure 9B-2) shall be mounted immediately above or incorporated into the**
2538 **~~pedestrian~~ pushbutton [detector](#) units (see Section 4E.08).**

2539 Support:

2540 Traffic Signal signs applicable to pedestrians include:

- 2541 A. CROSS [ONLY](#) ON GREEN ~~LIGHT ONLY~~ ([symbolic circular green](#)) (R10-1);
- 2542 B. CROSS [ONLY](#) ON ~~WALK~~ ([symbolic walk indication](#)) SIGNAL ~~ONLY~~ (R10-2);
- 2543 C. Push Button for ~~GREEN LIGHT~~ [Walk Signal](#) (R10-3); and
- 2544 D. Push Button for ~~WALK SIGNAL~~ [Green Signal](#) (R10-4).

2545 Option:

2546 The following signs may be used as an alternate for the R10-3 and R10-4 signs:

- 2547 A. [Push Button](#) to Cross Street (~~arrow~~), ~~PUSH BUTTON~~ Wait for ~~GREEN LIGHT~~ [Walk](#)
2548 [Signal](#) (R10-3a); or
- 2549 B. [Push Button](#) to Cross Street (~~arrow~~), ~~PUSH BUTTON WALK SIGNAL~~ [Wait for Green](#)
2550 [Signal](#) (R10-4a).

2551 [The name of the street to be crossed may be substituted for the word STREET in the legends](#)
2552 [on the R10-3a and R10-4a signs.](#)

2553 ~~The symbol sign R10-2a may be used as an alternate to sign R10-2.~~ Where symbol-type
2554 pedestrian signal indications are used, an educational sign (R10-3b) may be used [instead of the](#)
2555 [R10-3 sign](#) to improve pedestrian understanding of pedestrian indications at signalized
2556 intersections. Where word-type pedestrian signal indications are being retained for the remainder
2557 of their useful service life, the legends WALK/DONT WALK may be substituted for the symbols
2558 on the educational sign R10-3b, thus creating [educational](#) sign R10-3c. The R10-3d [educational](#)
2559 sign may be used ~~if~~ [to inform pedestrians that](#) the pedestrian clearance time is sufficient only for
2560 the pedestrian to cross to the median [at locations where pedestrians cross in two stages using a](#)
2561 [median refuge island.](#) ~~The diagrammatic sign R10-4b may also be used as an alternate to sign~~
2562 ~~R10-4. At intersections where pedestrians cross in two stages using a median refuge island, the~~
2563 ~~word message "CROSS TO MEDIAN" may be placed on the near corner of the refuge island~~
2564 ~~along with the educational plaque.~~ [The R10-3e educational sign may be used where countdown](#)
2565 [pedestrian signals have been provided. In order to assist the pedestrian in understanding which](#)
2566 [pushbutton to push, the R10-3f to R10-3i educational signs that provide the name of the street to](#)
2567 [be crossed may be used instead of the R10-b to R10-3e educational signs.](#)

2568 [The R10-24 or R10-26 sign \(see Section 9B.11\) may be used where a pushbutton detector has](#)
2569 [been installed exclusively for bicyclists to actuate a special bicycle phase or a concurrent](#)
2570 [vehicular green phase.](#)

2571 [The R10-25 sign \(see Figure 2B-29\) may be used where a pushbutton detector has been](#)
2572 [installed for pedestrians to activate In-Roadway Warning Lights \(see Chapter 4N\) or flashing](#)
2573 [beacons that have been added to the pedestrian warning signs.](#)

2574 Traffic Signal signs (see Figure 2B-30) may be installed at certain locations to clarify signal
2575 control. Among the legends [that may be used](#) for this purpose are LEFT ON GREEN ARROW
2576 ONLY (R10-5) ([see Section 4D.19](#)), STOP HERE ON RED (R10-6 or R10-6a) for observance of

2577 stop lines, DO NOT BLOCK INTERSECTION (R10-7) for avoidance of traffic obstructions,
2578 USE LANE(S) WITH GREEN ARROW (R10-8) for obedience to ~~Lane Control~~ [lane-use control](#)
2579 [edited for consistency](#) signals ([see Chapter 4M](#)), [added to assist reader](#) LEFT TURN YIELD ON
2580 GREEN (symbolic [circular green ball](#)) (R10-12), ~~and~~ LEFT TURN SIGNAL YIELD ON
2581 GREEN (symbolic [circular green ball](#)) (R10-21) (~~see Sections 4D-18 and 4D-20~~), [and LEFT](#)
2582 [TURN YIELD ON FLASHING RED ARROW AFTER STOP \(R10-27\)](#).

2583 [Guidance:](#)

2584 [If used, the LEFT ON GREEN ARROW ONLY \(R10-5\) sign, the LEFT TURN YIELD ON](#)
2585 [GREEN \(symbolic circular green\) \(R10-12\) sign, the LEFT TURN SIGNAL YIELD ON](#)
2586 [GREEN \(symbolic circular green\) \(R10-21\) sign, or the LEFT TURN YIELD ON FLASHING](#)
2587 [RED ARROW AFTER STOP \(R10-27\) sign should be located adjacent to the left-turn signal](#)
2588 [face.](#)

2589 [Option:](#)

2590 [If needed for additional emphasis, an additional LEFT TURN YIELD ON GREEN \(symbolic](#)
2591 [circular green\) \(R10-12\) sign with an AT SIGNAL \(R10-31P\) supplemental plaque \(see Figure](#)
2592 [2B-30\) may be installed in advance of the intersection.](#)

2593 In situations where traffic control signals are coordinated for progressive timing, the Traffic
2594 Signal Speed (I1-1) sign may be used (see Section 2I.04).

2595 **Standard:**

2596 ~~The NO TURN ON RED (R10-11a, R10-11b) sign (see Figure 2B-19) shall be used to~~
2597 ~~prohibit~~ **Where a right turn on red (or a left turn on red from a one-way street to a one-way**
2598 **street) is to be prohibited, a symbolic NO TURN ON RED (symbolic circular red) (R10-11)**
2599 **sign (see Figure 2B-30) or a NO TURN ON RED (R10-11a, R10-11b) word message sign**
2600 **(see Figure 2B-30) shall be used.**

2601 ~~Option:~~

2602 ~~A symbolic NO TURN ON RED (R10-11) sign (see Figure 2B-19) may be used as an~~
2603 ~~alternate to the R10-11a and R10-11b signs.~~ [incorporated into previous paragraph](#)

2604 [Guidance:](#)

2605 If used, the No Turn on Red sign should be installed near the appropriate signal head.

2606 A No Turn on Red sign should be considered when an engineering study finds that one or
2607 more of the following conditions exists:

- 2608 A. Inadequate sight distance to vehicles approaching from the left (or right, if applicable);
2609 B. Geometrics or operational characteristics of the intersection that might result in
2610 unexpected conflicts;
2611 C. An exclusive pedestrian phase;
2612 D. An unacceptable number of pedestrian conflicts with right-turn-on-red maneuvers,
2613 especially involving children, older pedestrians, or persons with disabilities;
2614 E. More than three right-turn-on-red accidents reported in a 12-month period for the
2615 particular approach; or
2616 [F. The skew angle of the intersecting roadways creates difficulty for older drivers to see](#)
2617 [traffic approaching from their left.](#)

2618 Where turns on red are permitted and the signal indication is a [steady](#) [added to increase](#)
2619 [accuracy](#) RED ARROW, the RIGHT (LEFT) ON RED ARROW AFTER STOP (R10-17a) sign
2620 (see Figure 2B-30) should be installed adjacent to the RED ARROW signal indication.

2621 [Option:](#)

2622 A supplemental R10-20a plaque (see Figure 2B-30) showing times of day (similar to the S4-
2623 1P plaque shown in Figure 7B-1) with a black legend and border on a white background may be

2624 mounted below a No Turn on Red sign to indicate that the restriction is in place only during
2625 certain times.

2626 Alternatively, a blank-out sign may be used instead of a static NO TURN ON RED sign, to
2627 display either the NO TURN ON RED legend or the No Right Turn symbol or word message, as
2628 appropriate, only at certain times during the day or during one or more portion(s) of a particular
2629 cycle of the traffic signal.

2630 On signalized approaches with more than one right-turn lane, a NO TURN ON RED
2631 EXCEPT FROM RIGHT LANE (R10-11c) sign (see Figure 2B-30) may be post-mounted at the
2632 intersection or a NO TURN ON RED FROM THIS LANE (with down arrow) (R10-11d) sign
2633 may be mounted directly over the center of the lane from which turns on red are prohibited.

2634 **Standard:**

2635 The CROSSWALK STOP ON RED (symbolic circular red) (R10-23) sign (see Figure
2636 2B-30) shall be used in conjunction with pedestrian hybrid signals (see Section 4F.02).

2637 The EMERGENCY SIGNAL (R10-13) sign (see Figure 2B-30) shall be used in
2638 conjunction with emergency-vehicle traffic control signals (see Section 4G.02).

2639 The EMERGENCY SIGNAL—STOP WHEN FLASHING RED (R10-14 or R10-14a)
2640 sign (see Figure 2B-30) shall be used in conjunction with emergency-vehicle hybrid signals
2641 (see Section 4G.04).

2642 Option:

2643 In order to remind drivers who are making turns to yield to pedestrians, especially at
2644 intersections where right turn on red is permitted and pedestrian crosswalks are marked, a
2645 ~~TURNING TRAFFIC MUST YIELD TO PEDESTRIANS~~ Turning Vehicles Yield to Pedestrians
2646 (R10-15) sign (see Figure 2B-30) may be used. this paragraph was relocated within this section to
2647 improve continuity

2648 A U-TURN YIELD TO RIGHT TURN (R10-16) sign (see Figure 2B-30) may be installed
2649 near the left-turn signal face if U-turns are allowed on a protected left-turn movement on an
2650 approach from which ~~drivers making a right turn from the conflicting approach to their left are a~~
2651 right-turn GREEN ARROW signal indication is simultaneously being ~~shown~~ displayed ~~a right-~~
2652 ~~turn GREEN ARROW signal indication~~ to drivers making a right turn from the conflicting
2653 approach to their left.

2654 A RIGHT TURN ON RED MUST YIELD TO U-TURN (R10-30) sign (see Figure 2B-30)
2655 may be installed to remind road users that they must yield to conflicting U-turn traffic on the
2656 street or highway onto which they are turning right on a red signal after stopping.

2657

2658 **Section ~~2B.46~~ 2B.60 Photo Enforced Signs and Plaques (R10-18, R10-19P, R10-**
2659 **19aP)**

2660 **Approved by Council 1-12-08**

2661 Option:

2662 A TRAFFIC LAWS PHOTO ENFORCED (R10-18) sign (see Figure 2B-1) may be installed
2663 at a jurisdictional boundary to advise road users that some of the traffic regulations within that
2664 jurisdiction are being enforced by photographic equipment.

2665 A Photo Enforced (R10-19P) plaque or a PHOTO ENFORCED (R10-19aP) word message
2666 sign plaque (see Figure 2B-1) may be mounted below a regulatory sign to advise road users that
2667 the regulation is being enforced by photographic equipment.

2668 **Standard:**

2669 If used below a regulatory sign, the Photo Enforced (R10-19P or R10-19aP) sign plaque
2670 shall be a rectangle with a black legend and border on a white background.

2671 **Section 2B.61 Ramp Metering Signs (R10-28 and R10-29)**

2672 **Approved by Council 1-12-08 with modifications shown in yellow**

2673

2674 **Option Guidance:**

2675 When ramp control signals (see Chapter 4I) are used to meter traffic on a freeway or
2676 expressway entrance ramp, regulatory signs with legends appropriate to the control **should may**
2677 be installed adjacent to the ramp control signal faces.

2678 For entrance ramps with only one controlled lane, an XX VEHICLE(S) PER GREEN (R10-
2679 28) sign (see Figure 2B-31) **should may** be used to inform road users of the number of vehicles
2680 that are permitted to proceed during each short display of the green signal indication. For
2681 entrance ramps with more than one controlled lane, an XX VEHICLE(S) PER GREEN EACH
2682 LANE (R10-29) (see Figure 2B-31) sign **should may** be used to inform road users of the number
2683 of vehicles that are permitted to proceed from each lane during each short display of the green
2684 signal indication.

2685 Reason for changes to 2B.61 – As approved by RWSTC. Ramp Metering signs should not be
2686 a guidance but rather optional for use depending on enforcement experiences in various
2687 states. Regulatory signs of this nature may not be needed to enforce ramp metering
2688 signals. It is a violation to proceed on a red indication. It is not mandatory to sign for this
2689 regulation.

2690 **Section ~~2B.47~~ 2B.62 KEEP OFF MEDIAN Sign (R11-1)**

2691 **NPA had no changes to this text.**

2692 Option:

2693 The KEEP OFF MEDIAN (R11-1) sign (see Figure 2B-32) may be used to prohibit driving
2694 into or parking on the median.

2695 Guidance:

2696 The KEEP OFF MEDIAN sign should be installed on the left of the roadway within the
2697 median at random intervals as needed wherever there is a tendency for encroachment.

2698 **Section ~~2B.48~~ 2B.63 ROAD CLOSED Sign (R11-2) and LOCAL TRAFFIC ONLY**
2699 **Signs (R11-3 Series, R11-4)**

2700 **NPA had no changes to this text.**

2701 Guidance:

2702 The ROAD CLOSED (R11-2) sign should be installed where roads have been closed to all
2703 traffic (except authorized vehicles).

2704 ROAD CLOSED—LOCAL TRAFFIC ONLY (R11-3) or ROAD CLOSED TO THRU
2705 TRAFFIC (R11-4) signs should be used where through traffic is not permitted, or for a closure
2706 some distance beyond the sign, but where the highway is open for local traffic up to the point of
2707 closure.

2708 **Standard:**

2709 The Road Closed (R11-2, R11-3 series, and R11-4) signs (see Figure 2B-32) shall be
2710 designed as horizontal rectangles. These signs shall be preceded by the applicable Advance
2711 Road Closed warning sign with the secondary legend AHEAD and, if applicable, an
2712 Advance Detour warning sign (see Section 6F.19).

2713 Option:
2714 The word message BRIDGE OUT may be substituted for the ROAD CLOSED message
2715 where applicable.

2716 **Section ~~2B.49~~ 2B.64 Weight Limit Signs (R12-1 through R12-5)**

2717 **Approved by Council 1-12-08**

2718 Option:

2719 The Weight Limit (R12-1) sign carrying the legend WEIGHT LIMIT XX t (~~XXX~~ TONS) may
2720 be used to indicate vehicle weight restrictions including load.

2721 Where the restriction applies to axle weight rather than gross load, the legend may be AXLE
2722 WEIGHT LIMIT XX t (~~XXX~~ TONS) or AXLE WEIGHT LIMIT ~~XXX~~ kg (~~XXXX~~ LBS) (R12-
2723 2).

2724 To restrict trucks of certain sizes by reference to empty weight in residential ~~districts~~ areas,
2725 edited to increase consistency the legend may be NO TRUCKS OVER XX t (~~XXX~~ TONS)
2726 EMPTY WT or NO TRUCKS OVER ~~XXX~~ kg (~~XXXX~~ LBS) EMPTY WT (R12-3).

2727 In areas where multiple regulations of the type described above are applicable, a sign
2728 combining the necessary messages on a single ~~panel sign~~ edited to increase accuracy may be
2729 used, such as WEIGHT LIMIT XX t (~~XXX~~ TONS) PER AXLE, XX t (~~XXX~~ TONS) GROSS (R12-
2730 4).

2731 Posting of specific load limits may be accomplished by use of the Weight Limit symbol sign
2732 (R12-5). A sign containing the legend WEIGHT LIMIT on the top two lines, and showing three
2733 different truck symbols and their respective weight limits for which restrictions apply may be
2734 used, with the weight limits ~~shown~~ displayed edited to increase consistency to the right of each
2735 symbol as XX t (~~XXX~~ T). A bottom line of legend stating GROSS WT may be included if needed
2736 for enforcement purposes.

2737 **Standard:**

2738 **If used, the Weight Limit sign (see Figure 2B-32) shall be located in advance of the**
2739 **applicable section of highway or structure.**

2740 Guidance:

2741 If used, the Weight Limit sign with an advisory distance ahead legend should be placed at
2742 approach road intersections or other points where prohibited vehicles can detour or turn around.

2743 A METRIC (W14-16P) plaque should be mounted above a Weight Limit sign that shows the
2744 load limits in metric units.

2745 **Section ~~2B.50~~ 2B.65 Weigh Station Signs (R13 Series)**

2746 **Approved by Council 1-12-08**

2747 Guidance:

2748 ~~An ALL TRUCKS/COMMERCIAL VEHICLES NEXT RIGHT~~ A TRUCKS OVER XX
2749 TONS MUST ENTER WEIGH STATION NEXT RIGHT (R13-1) sign (see Figure 2B-33)
2750 should be used to direct appropriate traffic into a weigh station.

2751 The R13-1 sign should be supplemented by the D8 series of guide signs (see Section 2D.51).

2752 Option:

2753 The reverse color combination, a white legend and border on a black background, may be
2754 used for the
2755 R13-1 sign.

2756

2757 **Section ~~2B.51~~ [2B.66](#) TRUCK ROUTE Sign (R14-1)**

2758 **Approved by Council 1-12-08**

2759 Guidance:

2760 The TRUCK ROUTE (R14-1) sign (see Figure 2B-33) should be used to mark a route that
2761 has been designated to allow truck traffic.

2762 Option:

2763 On a numbered highway, the TRUCK ([M4-4](#)) auxiliary sign may be used (see Section
2764 2D.20).

2765 **Section ~~2B.52~~ [2B.67](#) Hazardous Material Signs (R14-2, R14-3)**

2766 **NPA had no changes to this section.**

2767 Option:

2768 The Hazardous Material Route (R14-2) sign (see Figure 2B-33) may be used to identify
2769 routes that have been designated by proper authority for vehicles transporting hazardous material.

2770 On routes where the transporting of hazardous material is prohibited, the Hazardous Material
2771 Prohibition (R14-3) sign (see Figure 2B-33) may be used.

2772 Guidance:

2773 If used, the Hazardous Material Prohibition sign should be installed on a street or roadway at
2774 a point where vehicles transporting hazardous material have the opportunity to take an alternate
2775 route.

2776 **Section ~~2B.53~~ [2B.68](#) National Network Signs (R14-4, R14-5)**

2777 **NPA had no changes to this section.**

2778 Support:

2779 The signing of the National Network routes for trucking is optional.

2780 **Standard:**

2781 **When a National Network route is signed, the National Network (R14-4) sign (see**
2782 **Figure 2B-33) shall be used.**

2783 Option:

2784 The National Network Prohibition (R14-5) sign (see Figure 2B-33) may be used to identify
2785 routes, portions of routes, and ramps where trucks are prohibited. The R14-5 sign may also be
2786 used to mark the ends of designated routes.

2787 **Section 2B.69 Headlight Use Signs (R16-5 through R16-12)**

2788 **Section 2B.69 Tabled by RWSTC until June 2008**

2789 Support:

2790 Some States require road users to turn on their vehicle headlights under certain weather
2791 conditions, as a safety improvement measure on roadways experiencing high crash rates, or in
2792 special situations such as when driving through a tunnel.

2793 Option:

2794 A LIGHTS ON WHEN USING WIPERS (R16-5) sign (see Figure 2B-34) or a LIGHTS ON
2795 WHEN RAINING (R16-6) sign (see Figure 2B-34) may be installed to inform road users of State
2796 laws regarding headlight use. Although these signs are typically installed facing traffic entering
2797 the State just inside the State border, they also may be installed at other locations within the State.

2798 Guidance:

2799 If a particular section of roadway has been designated as a safety improvement zone within
2800 which headlight use is required, a TURN ON HEADLIGHTS NEXT XX km (MILES) (R16-7)
2801 sign (see Figure 2B-34) or a BEGIN DAYTIME HEADLIGHT SECTION (R16-11) sign (see
2802 Figure 2B-34) should be installed at the upstream end of the section, and a END DAYTIME
2803 HEADLIGHT SECTION (R16-12) sign (see Figure 2B-34) should be installed at the downstream
2804 end of the section.

2805 Option:

2806 A TURN ON HEADLIGHTS (R16-8) sign (see Figure 2B-34) may be installed to require
2807 road users to turn on their headlights in special situations such as when driving through a tunnel.
2808 A TURN OFF HEADLIGHTS (R16-9) sign (see Figure 2B-34) or a CHECK HEADLIGHTS
2809 (R16-10) sign (see Figure 2B-34) may be installed downstream from the special situation to
2810 inform drivers that the using their headlights is no longer required.

2811

2812 **Section ~~2B.54~~ 2B.70 ~~Other~~ Miscellaneous Regulatory Signs**

2813 **Approved by Council 1-12-08 with modifications shown in yellow.**

2814

2815 ~~Option: these two paragraphs were relocated to Section 2B.02~~

2816 ~~Regulatory word message signs other than those classified and specified in this Manual and~~
2817 ~~the “Standard Highways Sign” book (see Section 1A.11) may be developed to aid the~~
2818 ~~enforcement of other laws or regulations.~~

2819 ~~Except for symbols on regulatory signs, minor modifications in the design may be permitted~~
2820 ~~provided that the essential appearance characteristics are met.~~

2821 Option:

2822 A FENDER BENDER MOVE VEHICLES FROM TRAVEL LANES (R16-4) sign (see
2823 Figure 2B-35) may be installed to inform road users of State laws that require them to move their
2824 vehicles to the shoulder of the roadway to minimize the resulting effect on roadway congestion if
2825 they have been involved in a minor non-injury crash.

2826 A FENDER BENDER, MOVE VEHICLES FROM TRAVEL LANES (R16-4) sign
2827 (See Figure 2B-35) may be used to require motorists to move accident vehicles from the
2828 travel lane.

2829 MODIFY FIGURE 2B-35 TO INCLUDE RWSTC SELECTED SIGN DESIGN (all
2830 black-on-white, far right of RWSTC approval).

2831 **Reasons for change to Section 2B.70 – Consistent with RWSTC approved language**
2832 **through the task force for RWSTC proposal SSR # 42 (Dec 07). Approved by RWSTC**
2833 **on Jan 9, 2008. Sign to read FENDER BENDER, MOVE VEHICLES FROM**
2834 **TRAVEL LANES. Often there is no shoulder and therefore it is more appropriate to**
2835 **state to move from travel lane rather to move to the shoulder. Also, the sign message**
2836 **without the symbol is used by more states than the sign with the symbol.**

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Standard:

When a seat belt symbol is used, the symbol shown in Figure 2B-35 shall be used.

Guidance:

The seat belt symbol should not be used alone ~~but in connection with mandatory seat belt regulatory messages.~~ If used, the seat belt symbol should be incorporated into regulatory sign messages for mandatory seat belt use.

VOTE: For:

Opposed:

Abstentions:

u: 2009 NPA - RWSTC Approval part 2B to Bob Garrett. Approved by Council 1-12-08
updated 2-3-08