



# National Committee on Uniform Traffic Control Devices

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## National Committee on Uniform Traffic Control Devices (NCUTCD) Recommended Changes to Proposed Text for 11<sup>th</sup> Edition of the MUTCD Docket Number: FHWA-2020-0001

**Federal Register Item Number:** 484, 485, 486, 487, 488, 489, 490, 491, 492

**NPA MUTCD Section Number:** Sections 6H.01 to 6H.38

**Legend:** Base text shown in proposal is the NPA “clean” proposed text.

- [NCUTCD recommendation for text to be added in final rule.](#)
- ~~NCUTCD recommendation for text to be deleted in final rule.~~
- [NCUTCD recommendation for text to be moved/relocated in final rule.](#)
- NPA text that was not previously approved by NCUTCD but is now approved.
- Explanatory note: [\[Note that explains purpose of recommended change.\]](#)

The following pages present NCUTCD recommendations for changes to the MUTCD NPA proposed text, tables, and figures for Chapter 6H. Below is a short summary of the NCUTCD position for each section of this chapter. A more detailed summary is provided at the beginning of each section.

- NPA #484, Section 6H.01: Changes recommended based on Council action in spring 2021
- NPA #N/A, Section 6H.02: NCUTCD agrees with NPA content (no changes recommended)
- NPA #485, Section 6H.03: NCUTCD agrees with NPA content (no changes recommended)
- NPA #486, Section 6H.04: NCUTCD agrees with NPA content (no changes recommended)
- NPA #487, Section 6H.05: NCUTCD agrees with NPA content (no changes recommended)
- NPA #488, Section 6H.06: NCUTCD agrees with NPA content (no changes recommended)
- NPA #489, Section 6H.07: Changes recommended based on Council action in spring 2021
- NPA #490, Section 6H.08: Changes recommended based on Council action in spring 2021
- NPA #N/A, Section 6H.09: NCUTCD agrees with NPA content (no changes recommended)
- NPA #N/A, Section 6H.10: NCUTCD agrees with NPA content (no changes recommended)
- NPA #N/A, Section 6H.11: NCUTCD agrees with NPA content (no changes recommended)
- NPA #N/A, Section 6H.12: NCUTCD agrees with NPA content (no changes recommended)
- NPA #N/A, Section 6H.13: NCUTCD agrees with NPA content (no changes recommended)
- NPA #N/A, Section 6H.14: NCUTCD agrees with NPA content (no changes recommended)
- NPA #N/A, Section 6H.15: NCUTCD agrees with NPA content (no changes recommended)
- NPA #N/A, Section 6H.16: NCUTCD agrees with NPA content (no changes recommended)
- NPA #N/A, Section 6H.17 (Relocated to 6H.12): Changes recommended based on Council action in spring 2021
- NPA #N/A, Section 6H.18 (now 6H.17): Changes recommended based on Council action in spring 2021
- NPA #N/A, Section 6H.19 (now 6H.18): Changes recommended based on Council action in spring 2021
- NPA #N/A, Section 6H.20 (now 6H.19): Changes recommended based on Council action in spring 2021

- 43 • NPA #N/A, Section 6H.21 (now 6H.20): Changes recommended based on Council action in spring
- 44 2021
- 45 • NPA #N/A, Section 6H.22 (now 6H.21): Changes recommended based on Council action in spring
- 46 2021
- 47 • NPA #N/A, Section 6H.23 (now 6H.22): Changes recommended based on Council action in spring
- 48 2021
- 49 • NPA #491, Section 6H.24 (now 6H.23): Changes recommended based on Council action in spring
- 50 2021
- 51 • NPA #492, Section 6H.25 (now 6H.24): Changes recommended based on Council action in spring
- 52 2021
- 53 • NPA #N/A, Section 6H.26 (now 6H.25): Changes recommended based on Council action in spring
- 54 2021
- 55 • NPA # N/A, Section 6H.27 (now 6H.26): Changes recommended based on Council action in spring
- 56 2021
- 57 • NPA # N/A, Section 6H.28 (now 6H.27): Changes recommended based on Council action in spring
- 58 2021
- 59 • NPA #N/A, Section 6H.29 (now 6H.28): Changes recommended based on Council action in spring
- 60 2021
- 61 • NPA #N/A, Section 6H.30 (now 6H.29): Changes recommended based on Council action in spring
- 62 2021
- 63 • NPA #N/A, Section 6H.31 (now 6H.30): Changes recommended based on Council action in spring
- 64 2021
- 65 • NPA #N/A, Section 6H.32 (now 6H.21): Changes recommended based on Council action in spring
- 66 2021
- 67 • NPA #N/A, Section 6H.33 (now 6H.32): Changes recommended based on Council action in spring
- 68 2021
- 69 • NPA #N/A, Section 6H.34: (now 6H.33): Changes recommended based on Council action in spring
- 70 2021
- 71 • NPA #N/A, Section 6H.35 (now 6H.34): Changes recommended based on Council action in spring
- 72 2021
- 73 • NPA #N/A, Section 6H.36 (now 6H.35): Changes recommended based on Council action in spring
- 74 2021
- 75 • NPA #N/A, Section 6H.37 (now 6H.36): Changes recommended based on Council action in spring
- 76 2021
- 77 • NPA # N/A, Section 6H.38 (now 6H.37): Changes recommended based on Council action in spring
- 78 2021

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## CHAPTER 6H. TTC ZONE WARNING SIGNS

**Section 6H.01 Comments:** NCUTCD generally agrees with 6H.01 as presented in the NPA, but recommends revising the title of the SHS in the first Standard to “Standard Highway Signs” publication’.

### **Section 6H.01 Warning Sign Function, Design, and Application**

Support:

TTC zone warning signs (see Figure 6H-1) notify road users of specific situations or conditions on or adjacent to a roadway that might not otherwise be apparent.

91 **Table 6H-1 Comments:** NCUTCD generally agrees with Table 6H-1 as presented in the NPA,  
92 but recommends revising as follows:

- 93 • Edit the title to ‘Warning Signs Used in TTC Zones’
- 94 • Delete the CENTER LANE CLOSED Ahead (W9-3) sign (see 6H.07)
- 95 • Revise the table to include signs referenced in the individual sections in Chapter 6H (see  
96 table below)

Section	Signs which are referenced in the individual Chapter 6H sections to Table 6H-1 that are not shown in the table
6H.12	E5-2, E5-2a
6H.13	E5-3
6H.18	W21-1a
6H.31	W24-1c
6H.33	W16-4P

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Warning Signs used in TTC Zones

Table 6H-1. Temporary Traffic Control Zone Sign and Plaque Sizes

Sign or Plaque	Sign Designation	Section	Conventional Road	Freeway or Expressway	Minimum
Turn and Curve Signs	W1-1,2,3,4	6H.01	36 x 36	48 x 48	30 x 30
Reverse Curve (2 or more lanes)	W1-4b,4c	6H.30	36 x 36	48 x 48	30 x 30
One-Direction Large Arrow	W1-6	6H.01	48 x 24	60 x 30	—
Chevron Alignment	W1-8	6H.01	18 x 24	30 x 36	—
Stop Ahead	W3-1	6H.01	36 x 36	48 x 48	30 x 30
Yield Ahead	W3-2	6H.01	36 x 36	48 x 48	30 x 30
Signal Ahead	W3-3	6H.01	36 x 36	48 x 48	30 x 30
Be Prepared to Stop	W3-4	6H.01	36 x 36	48 x 48	30 x 30
Reduced Speed Limit Ahead	W3-5	6H.01	36 x 36	48 x 48	30 x 30
XX MPH Speed Zone Ahead	W3-5a	6H.01	36 x 36	48 x 48	30 x 30
Merging Traffic	W4-1,5	6H.01	36 x 36	48 x 48	36 x 36
Lane Ends	W4-2	6H.08	36 x 36	48 x 48	30 x 30
Added Lane	W4-3,6	6H.01	36 x 36	48 x 48	30 x 30
No Merge Area (plaque)	W4-5P	6H.01	18 x 24	24 x 30	—
Road Narrows	W5-1	6H.01	36 x 36	48 x 48	30 x 30
Narrow Bridge	W5-2	6H.01	36 x 36	48 x 48	30 x 30
One Lane Bridge	W5-3	6H.01	36 x 36	48 x 48	30 x 30
Ramp Narrows	W5-4	6H.10	36 x 36	48 x 48	30 x 30
Divided Highway	W6-1	6H.01	36 x 36	48 x 48	30 x 30
Divided Highway Ends	W6-2	6H.01	36 x 36	48 x 48	30 x 30
Two-Way Traffic	W6-3	6H.16	36 x 36	48 x 48	30 x 30
Two-Way Traffic	W6-4	6H.17	12 x 18	12 x 18	—
Hill	W7-1	6H.01	36 x 36	48 x 48	30 x 30
Next XX Miles (plaque)	W7-3aP	6H.33	24 x 18	36 x 30	—
Bump	W8-1	6H.01	36 x 36	48 x 48	30 x 30
Dip	W8-2	6H.01	36 x 36	48 x 48	30 x 30
Pavement Ends	W8-3	6H.01	36 x 36	48 x 48	30 x 30
Soft Shoulder	W8-4	6H.26	36 x 36	48 x 48	30 x 30
Slippery When Wet	W8-5	6H.01	36 x 36	48 x 48	30 x 30
Truck Crossing	W8-6	6H.21	36 x 36	48 x 48	30 x 30
Loose Gravel	W8-7	6H.01	36 x 36	48 x 48	30 x 30
Rough Road	W8-8	6H.01	36 x 36	48 x 48	30 x 30
Low Shoulder	W8-9	6H.26	36 x 36	48 x 48	30 x 30
Uneven Lanes	W8-11	6H.27	36 x 36	48 x 48	30 x 30
No Center Line	W8-12	6H.29	36 x 36	48 x 48	30 x 30
Fallen Rocks	W8-14	6H.01	36 x 36	48 x 48	30 x 30
Grooved Pavement	W8-15	6H.01	36 x 36	48 x 48	30 x 30
Motorcycle (plaque)	W8-15P	6H.34	24 x 18	30 x 24	—
Shoulder Drop Off (symbol)	W8-17	6H.26	36 x 36	48 x 48	30 x 30
Shoulder Drop-Off (plaque)	W8-17P	6H.26	24 x 18	30 x 24	—
Road May Flood	W8-18	6H.01	36 x 36	48 x 48	24 x 24
No Shoulder	W8-23	6H.01	36 x 36	48 x 48	30 x 30
Steel Plate Ahead	W8-24	6H.28	36 x 36	48 x 48	30 x 30
Shoulder Ends	W8-25	6H.01	36 x 36	48 x 48	30 x 30
Lane Ends	W9-1,2	6H.01	36 x 36	48 x 48	30 x 30
Merge Here Take Turns	W9-2a	6N.19	36 x 48	36 x 48	—
Center Lane Closed Ahead	W9-3	6H.07	36 x 36	48 x 48	30 x 30
Interior Lane Shift Ahead	W9-4	6N.11	36 x 36	48 x 48	36 x 36
Grade Crossing Advance Warning	W10-1	6H.01	36 dia.	—	—
Truck	W11-10	6H.21	36 x 36	48 x 48	30 x 30
Double Arrow	W12-1	6H.01	30 x 30	—	—
Low Clearance	W12-2	6H.01	36 x 36	48 x 48	30 x 30
Advisory Speed (plaque)	W13-1P	6H.32	24 x 24	30 x 30	18 x 18
On Ramp (plaque)	W13-4P	6H.09	36 x 36	36 x 36	—
No Passing Zone (pennant)	W14-3	6H.01	48 x 48 x 36	64 x 64 x 48	40 x 40 x 30
XX Feet (plaque)	W16-2P	6H.01	24 x 18	30 x 24	—

[Warning Signs used in TTC Zones](#)

**Table 6H-1. Temporary Traffic Control Zone Sign and Plaque Sizes**

Sign or Plaque	Sign Designation	Section	Conventional Road	Freeway or Expressway	Minimum
Road Work (with distance)	W20-1	6H.03	36 x 36	48 x 48	30 x 30
Detour (with distance)	W20-2	6H.04	36 x 36	48 x 48	30 x 30
Road (Street) Closed (with distance)	W20-3	6H.05	36 x 36	48 x 48	30 x 30
One Lane Road (with distance)	W20-4	6H.06	36 x 36	48 x 48	30 x 30
Lane(s) Closed (with distance)	W20-5,5a	6H.07	36 x 36	48 x 48	30 x 30
Flagger (symbol)	W20-7	6H.13	36 x 36	48 x 48	30 x 30
Flagger	W20-7a	6H.13	36 x 36	48 x 48	30 x 30
Slow (on Stop/Slow Paddle)	W20-8	6D.02	18 x 18	—	—
Workers	W21-1,1a	6H.18	36 x 36	48 x 48	30 x 30
Fresh Oil (Tar)	W21-2	6H.19	36 x 36	48 x 48	30 x 30
Road Machinery Ahead	W21-3	6H.20	36 x 36	48 x 48	30 x 30
Slow Moving Vehicle	W21-4	6N.05	36 x 18	—	—
Shoulder Work	W21-5	6H.22	36 x 36	48 x 48	30 x 30
Shoulder Closed	W21-5a	6H.22	36 x 36	48 x 48	30 x 30
Shoulder Closed (with distance)	W21-5b	6H.22	36 x 36	48 x 48	30 x 30
Survey Crew	W21-6	6H.23	36 x 36	48 x 48	30 x 30
Utility Work Ahead	W21-7	6H.24	36 x 36	48 x 48	30 x 30
Mowing Ahead	W21-8	6H.05	36 x 36	48 x 48	30 x 30
Blasting Zone Ahead	W22-1	6H.25	36 x 36	48 x 48	30 x 30
Turn Off 2-Way Radio and Cell Phone	W22-2	6H.25	42 x 36	42 x 36	—
End Blasting Zone	W22-3	6H.25	42 x 36	42 x 36	36 x 30
Slow Traffic Ahead	W23-1	6H.11	48 x 24	48 x 24	—
New Traffic Pattern Ahead	W23-2	6H.14	36 x 36	48 x 48	30 x 30
Double Reverse Curve (1 lane)	W24-1	6H.31	36 x 36	48 x 48	30 x 30
Double Reverse Curve (2 lanes)	W24-1a	6H.31	36 x 36	48 x 48	30 x 30
Double Reverse Curve (3 lanes)	W24-1b	6H.31	36 x 36	48 x 48	30 x 30
All Lanes (plaque)	W24-1cP	6H.31	24 x 18	30 x 24	—
Road Work Next XX Miles	G20-1	6H.35	36 x 18	48 x 24	—
End Road Work	G20-2	6H.36	36 x 18	48 x 24	—
Pilot Car Follow Me	G20-4	6H.37	36 x 18	—	—
Work Zone (plaque)	G20-5aP	6G.08	24 x 18	36 x 24	—

Notes: 1. Larger signs may be used wherever necessary for greater legibility or emphasis  
 2. Dimensions are shown in inches and are shown as width x height

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**Figure 6H-1 Comments:** NCUTCD generally agrees with Figure 6H-1 as presented in the NPA, but recommends revising as follows:

- Revise W3-3 sign to show a center signal indication of yellow, not orange
- Resolve the conflict between W9-4 signs in Part 2 and Part 6 in the NPA with the same sign designation - W9-4 in Part 2 is the LANES MERGE word legend sign and W9-4 in Part 6 is the Interior Lane Shift Ahead symbol sign
- Revise the figure to include signs referenced in the individual sections in Chapter 6H (see table below)

Section	Signs which are referenced in the individual Chapter 6H sections to Figure 6H-1 that are not shown in the figure
6H.03	W20-1
6H.04	W20-2
6H.05	W20-3
6H.06	W20-4
6H.07	W20-5, W20.5a, W9-3, W9-4
6H.08	W4-2
6H.09	W13-4p
6H.10	W5-4
6H.11	W23-1

6H.12	E5-2, E5-2a
6H.13	E5-3
6H.14	W23-1
6H.15	W20-7, W20-7a
6H.16	W6-3
6H.17	W6-4
6H.18	W21-1, W21-1a
6H.19	W21-2
6H.20	W21-3
6H.21	W8-6, W11-10
6H.22	W21-5, W21-5a, W21-5b
6H.23	W21-6
6H.24	W21-7
6H.25	W22-1, W22-2
6H.26	W8-4, W8-9, W8-17, W8-17p
6H.27	W8-11
6H.28	W8-24
6H.29	W8-12
6H.30	W1-4, W1-4b, W1-4c, W24-1cP
6H.31	W24-1, W24-1a, W24-1c, W24-1cP
6H.32	W13-1P
6H.33	W7-3aP, W16-4P
6H.34	W8-15P
6H.35	G20-1
6H.36	G20-2
6H.37	G20-4
6H.03	W20-1

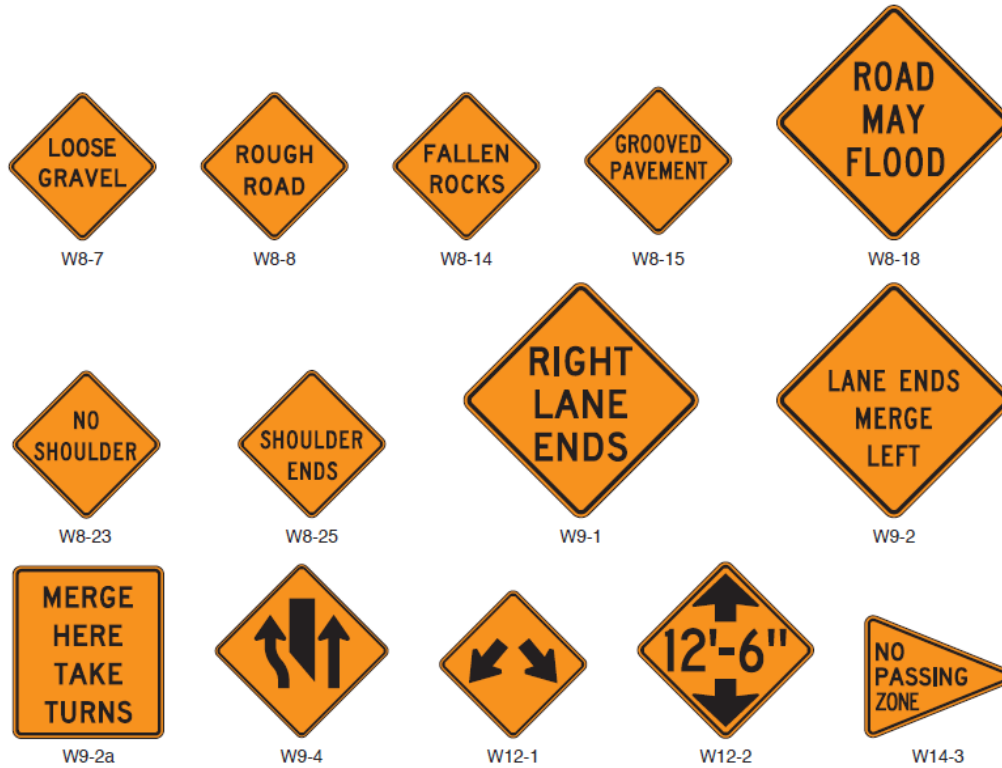
Figure 6H-1. Examples of Other Warning Signs Used in TTC Zones (Sheet 1 of 2)



Note: See Chapter 2H for information on the application of these signs



Figure 6H-1. Examples of Other Warning Signs Used in TTC Zones (Sheet 2 of 2)



Note: See Chapter 2H for information on the application of these signs

115

116 **Standard:**

117 TTC warning signs shall comply with the Standards for warning signs presented in  
 118 Part 2 and in FHWA’s “Standard Highway Signs ~~and Markings~~” ~~book~~ publication (see  
 119 Section 1A.05). edit title

120 Except as provided in the Option below, TTC warning signs shall be diamond-shaped  
 121 with a black legend and border on an orange background, except for the Grade Crossing  
 122 Advance Warning (W10-1 sign), which shall have a black legend and border on a yellow  
 123 background.

124 Option:

125 Warning signs that are required or recommended in Parts 2 or 7 to have a fluorescent yellow-  
 126 green background may have that color background in TTC zones. Existing warning signs with a  
 127 yellow background that are still applicable may remain in place. Warning signs used for TTC  
 128 incident management situations may have a black legend and border on a fluorescent pink  
 129 background.

130 Mounting or space considerations may justify a change from the standard diamond shape to a  
 131 rectangular shape.

132 In emergencies, available warning signs having yellow backgrounds may be used if signs  
 133 with orange or fluorescent pink backgrounds are not at hand.

134 *Guidance:*



135       Where roadway or road user conditions require greater emphasis, larger than standard size  
136 warning signs should be used, with the symbol or legend enlarged approximately in proportion  
137 to the outside dimensions.

138       Where any part of the roadway is obstructed or closed by work activities or incidents,  
139 advance warning signs should be installed to alert road users well in advance of these  
140 obstructions or restrictions.

141       Where road users include pedestrians, the provision of supplemental audible information or  
142 detectable barriers or barricades should be provided for people with visual disabilities.

143 Support:

144       Detectable barriers or barricades communicate very clearly to pedestrians who have visual  
145 disabilities that they can no longer proceed in the direction that they are traveling.

146 Option:

147       Advance warning signs may be used singly or in combination.

148       Where distances are not displayed on warning signs as part of the message, a supplemental  
149 plaque with the distance legend may be mounted immediately below the sign on the same  
150 support.

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153 **Section 6H.02 Comments:** NCUTCD agrees with 6H.02 as presented in the NPA.

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## 155 **Section 6H.02 Position of Advance Warning Signs**

156 *Guidance:*

157       Where highway conditions permit, warning signs should be placed in advance of the  
158 transition and activity areas at varying distances depending on roadway type, condition, and  
159 posted speed. Table 6B-1 contains information regarding the spacing of advance warning signs.  
160 Where a series of two or more advance warning signs is used, the closest sign to the transition  
161 and activity areas should be placed approximately 100 feet for low-speed urban streets to 1,000  
162 feet or more for freeways and expressways.

163       Where multiple advance warning signs are needed on the approach to a transition and  
164 activity area, the ROAD WORK AHEAD (W20-1) sign should be the first advance warning sign  
165 encountered by road users.

166 Support:

167       Various conditions, such as limited sight distance or obstructions that might require a driver  
168 to reduce speed or stop, might require additional advance warning signs.

169 Option:

170       As an alternative to a specific distance on advance warning signs, the word AHEAD may be  
171 used.

172 Support:

173       At TTC zones on lightly-traveled roads, all of the advance warning signs prescribed for  
174 major construction might not be needed.

175 Option:

176       Utility work, maintenance, or minor construction can occur within the TTC zone limits of a  
177 major construction project, and additional warning signs may be needed.

178 *Guidance:*

179 *Utility, maintenance, and minor construction signing and TTC should be coordinated with*  
180 *appropriate authorities so that road users are not confused or misled by the additional TTC*  
181 *devices.*  
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184 **Section 6H.03 Comments:** NCUTCD agrees with 6H.03 as presented in the NPA.  
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186 **Section 6H.03 ROAD (STREET) WORK Sign (W20-1)**

187 *Guidance:*

188 *The ROAD (STREET) WORK (W20-1) sign (see Figure 6H-1), which serves as a general*  
189 *warning of obstructions or restrictions, should be located in advance of the work space or any*  
190 *detour, on the road where the work is taking place.*

191 *Where traffic can enter a TTC zone from a crossroad or a major (high-volume) driveway, an*  
192 *advance warning sign should be used on the crossroad or major driveway.*

193 *Option:*

194 The legend STREET may be substituted for ROAD and the distance legend may be either  
195 XX FEET, XX MILES, or AHEAD.  
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198 **Section 6H.04 Comments:** NCUTCD agrees with 6H.04 as presented in the NPA.  
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200 **Section 6H.04 DETOUR Sign (W20-2)**

201 *Guidance:*

202 *The DETOUR (W20-2) sign (see Figure 6H-1) should be used in advance of a road user*  
203 *detour over a different roadway or route.*

204 The distance legend may be either XX FEET, XX MILES, or AHEAD.  
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206  
207 **Section 6H.05 Comments:** NCUTCD agrees with 6H.05 as presented in the NPA.  
208

209 **Section 6H.05 ROAD (STREET) CLOSED Sign (W20-3)**

210 *Guidance:*

211 *The ROAD (STREET) CLOSED (W20-3) sign (see Figure 6H-1) should be used in advance*  
212 *of the point where a highway is closed to all road users, or to all but local road users.*

213 *Option:*

214 The legend STREET may be substituted for ROAD and the distance legend may be either  
215 XX FEET, XX MILES, or AHEAD.  
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218 **Section 6H.06 Comments:** NCUTCD agrees with 6H.06 as presented in the NPA.  
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220 **Section 6H.06 ONE LANE ROAD Sign (W20-4)**

221 **Standard:**

222 **The ONE LANE ROAD (W20-4) sign (see Figure 6H-1) shall be used only in advance of**  
223 **that point where motor vehicle traffic in both directions must use a common single lane**  
224 **(see Section 6E.01).**

225 Option:  
226 The distance legend may be either XX FEET, XX MILES, or AHEAD.  
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228  
229 **Section 6H.07** NCUTCD generally agrees with 6H.07 as presented in the NPA, but recommends  
230 revising as follows:

- 231 • Replace the W9-3 sign with the W9-4 sign in accordance with NCUTCD recommendation  
232 17B-TTC-01
- 233 • Add ‘or more’ in the second Standard paragraph for clarity
- 234 • Revise the Guidance statement to change the sign reference from W9-3 to W9-4 and add  
235 content on a shifting taper to route traffic around a closed interior lane

236  
237 **Section 6H.07 Lane(s) Closed Signs (W20-5, W20-5a, and ~~W9-3~~ W9-4)** [revise per 17B-  
238 TTC-01]

239 **Standard:**

240 The Lane(s) Closed sign (see Figure 6H-1) shall be used in advance of that point where  
241 one or more through lanes of a multi-lane roadway are closed.

242 For a single lane closure, the Lane Closed (W20-5) sign (see Figure 6H-1) shall use the  
243 legend RIGHT (LEFT) LANE CLOSED. Where two or more adjacent lanes are closed,  
244 the W20-5a sign (see Figure 6H-1) shall use the legend XX RIGHT (LEFT) LANES  
245 CLOSED. [edit for clarity]

246 **Option:**

247 The distance legend may be either XX FEET, XX MILES, or AHEAD.

248 **Guidance:**

249 The Interior Lane Shift Ahead (W9-4) symbol ~~CENTER LANE CLOSED AHEAD (W9-3)~~ sign  
250 (see Figure 6H-1) should be used in advance of that point where work occupies ~~the center an~~  
251 interior lane(s) and approaching motor vehicle traffic is directed to the right or left of the work  
252 zone in the lane by using a shifting taper to route traffic around the closed interior lane ~~center~~  
253 lane. [revise per 17B-TTC-01]

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256 **Section 6H.08 Comments:** NCUTCD generally agrees with 6H.08 as presented in the NPA, but  
257 recommends revising the Guidance paragraph to add ‘at which vehicles from alternate lanes’ for  
258 clarity.

259  
260 **Section 6H.08 Lane Ends Signs (W4-2, W9-2a)**

261 **Option:**

262 The Lane Ends (W4-2) symbol sign (see Figure 6H-1) may be used to warn drivers of the  
263 reduction in the number of lanes for moving motor vehicle traffic in the direction of travel on a  
264 multi-lane roadway.

265 **Guidance:**

266 The MERGE HERE TAKE TURNS (W9-2a) sign (see Figure 6H-1) should be used to identify  
267 the merge point at which vehicles from alternate lanes ~~and to~~ take turns merging during Late  
268 Merge applications (see Figure 6N-1). [edit for clarity]

271 **Section 6H.09 Comments:** NCUTCD agrees with 6H.09 as presented in the NPA.

272

273 **Section 6H.09 ON RAMP Plaque (W13-4P)**

274 *Guidance:*

275 *When work is being done on a ramp, but the ramp remains open, the ON RAMP (W13-4P)*  
276 *plaque (see Figure 6H-1) should be used to supplement the advance ROAD WORK sign.*

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279 **Section 6H.10 Comments:** NCUTCD agrees with 6H.10 as presented in the NPA.

280

281 **Section 6H.10 RAMP NARROWS Sign (W5-4)**

282 *Guidance:*

283 *The RAMP NARROWS (W5-4) sign (see Figure 6H-1) should be used in advance of the point*  
284 *where work on a ramp reduces the normal width of the ramp along a part or all of the ramp.*

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285

286

287 **Section 6H.11 Comments:** NCUTCD agrees with 6H.11 as presented in the NPA.

288

289 **Section 6H.11 SLOW TRAFFIC AHEAD Sign (W23-1)**

290 *Option:*

291 *The SLOW TRAFFIC AHEAD (W23-1) sign (see Figure 6H-1) may be used on a shadow*  
292 *vehicle, usually mounted on the rear of the most upstream shadow vehicle, along with other*  
293 *appropriate signs for mobile operations to warn of slow moving work vehicles. A ROAD*  
294 *WORK (W20-1) sign may also be used with the SLOW TRAFFIC AHEAD sign.*

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295

296

297 **Section 6H.12 Comments:** NCUTCD agrees with 6H.12 as presented in the NPA.

298

299 **Section 6H.12 EXIT OPEN and EXIT CLOSED Signs (E5-2, E5-2a)**

300 *Option:*

301 *An EXIT OPEN (E5-2) or EXIT CLOSED (E5-2a) sign (see Figure 6H-1) may be used to*  
302 *supplement other warning signs where work is being conducted in the vicinity of an exit ramp*  
303 *and where the exit maneuver for vehicular traffic using the ramp is different from the normal*  
304 *condition.*

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305

306

307 **Section 6H.13 Comments:** NCUTCD agrees with 6H.13 as presented in the NPA.

308

309 **Section 6H.13 EXIT ONLY Sign (E5-3)**

310 *Option:*

311 *An EXIT ONLY (E5-3) sign (see Figure 6H-1) may be used to supplement other warning*  
312 *signs where work is being conducted in the vicinity of an exit ramp and where the exit maneuver*  
313 *for vehicular traffic using the ramp is different from the normal condition.*

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316

317 **Section 6H.14 Comments:** NCUTCD agrees with 6H.14 as presented in the NPA.

318  
319 **Section 6H.14 NEW TRAFFIC PATTERN AHEAD Sign (W23-2)**

320 Option:

321 A NEW TRAFFIC PATTERN AHEAD (W23-2) sign (see Figure 6H-1) may be used on the  
322 approach to an intersection or along a section of roadway to provide advance warning of a  
323 change in traffic patterns, such as revised lane usage, roadway geometry, or signal phasing.

324 *Guidance:*

325 *To retain its effectiveness, the W23-2 sign should be displayed for up to 2 weeks, and then it*  
326 *should be covered or removed until it is needed again.*

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328  
329 **Section 6H.15 Comments:** NCUTCD agrees with 6H.15 as presented in the NPA.

330  
331 **Section 6H.15 Flagger Signs (W20-7, W20-7a)**

332 *Guidance:*

333 *The Flagger (W20-7) symbol sign (see Figure 6H-1) should be used in advance of any point*  
334 *where a flagger is stationed to control road users.*

335 Option:

336 A distance legend may be displayed on a supplemental plaque below the Flagger sign. The  
337 sign may be used with appropriate legends or in conjunction with other warning signs, such as  
338 the BE PREPARED TO STOP (W3-4) sign (see Figure 6H-1).

339 The FLAGGER (W20-7a) word message sign with distance legends may be substituted for  
340 the Flagger (W20-7) symbol sign.

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342  
343 **Section 6H.16 Comments:** NCUTCD agrees with 6H.16 as presented in the NPA.

344  
345 **Section 6H.16 Two-Way Traffic Sign (W6-3)**

346 *Guidance:*

347 *When one roadway of a normally divided highway is closed, with two-way vehicular traffic*  
348 *maintained on the other roadway, the Two-Way Traffic (W6-3) sign (see Figure 6H-1) should be*  
349 *used at the beginning of the two-way vehicular traffic section and at intervals to remind road*  
350 *users of opposing vehicular traffic.*

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352  
353 **Section 6H.17 Comments:** NCUTCD recommends relocating this section to a new Section  
354 6K.12. Although the NPA reclassified this device from a channelizing device to a warning sign  
355 and relocated this Section from 6F.76 in the 2009 MUTCD, NCUTCD does not agree with the  
356 relocation and reclassification of this device, as it is not a sign, but is a channelizer, as it is  
357 attached to a flexible support.

358  
359 **Section 6H.17 Opposing Lane Traffic Divider and Sign (W6-4)**

360 **Standard:**

361 ~~The Opposing Lane Traffic Divider (W6-4) sign (see Figure 6H-1) shall be an upright,~~  
362 ~~retroreflective orange-colored sign placed on a flexible support and sized at least 12 inches~~  
363 ~~wide by 18 inches high.~~

364 Support:

365 ~~The Opposing Lane Traffic Divider (W6-4) sign is intended for mounting only on a flexible~~  
366 ~~support in a series along the center lane to separate opposing vehicular traffic on a two-lane, two-~~  
367 ~~way operation.~~

368 Standard:

369 ~~Opposing Lane Traffic Divider signs shall not be placed within pedestrian crossings.~~  
370

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371  
372 **Section 6H.18 Comments:** NCUTCD agrees with 6H.18 as presented in the NPA, but  
373 recommends revising the Section number to 6H.17.

374  
375 **Section ~~6H.18~~6H.17 Workers Signs (W21-1, W21-1a)** [edit Section number]

376 Option:

377 A Workers (W21-1) symbol sign (see Figure 6H-1) may be used to alert road users of  
378 workers in or near the roadway.

379 Guidance:

380 *In the absence of other warning devices, a Workers symbol sign should be used when*  
381 *workers are in the roadway.*

382 Option:

383 The WORKERS (W21-1a) word message sign may be used as an alternate to the Workers  
384 (W21-1) symbol sign.  
385

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386  
387 **Section 6H.19 Comments:** NCUTCD agrees with 6H.19 as presented in the NPA, but  
388 recommends revising the Section number to 6H.18.

389 **Section ~~6H.19~~6H.18 FRESH OIL (TAR) Sign (W21-2)** [edit Section number]

390 Guidance:

391 *The FRESH OIL (TAR) (W21-2) sign (see Figure 6H-1) should be used to warn road users of*  
392 *the surface treatment.*  
393

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394  
395 **Section 6H.20 Comments:** NCUTCD agrees with 6H.20 as presented in the NPA, but  
396 recommends revising the Section number to 6H.19.

397 **Section ~~6H.20~~6H.19 ROAD MACHINERY AHEAD Sign (W21-3)** [edit Section number]

398 Option:

399 The ROAD MACHINERY AHEAD (W21-3) sign (see Figure 6H-1) may be used to warn of  
400 machinery operating in or adjacent to the roadway.  
401

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402  
403 **Section 6H.21 Comments:** NCUTCD agrees with 6H.21 as presented in the NPA, but  
404 recommends revising the Section number to 6H.20.

405  
406 **Section ~~6H.21~~6H.20 Motorized Traffic Signs (W8-6, W11-10)** [edit Section number]



407 Option:  
408 Motorized Traffic (W8-6, W11-10) signs may be used to alert road users to locations where  
409 unexpected travel on the roadway or entries into or departures from the roadway by construction  
410 vehicles might occur. The TRUCK CROSSING (W8-6) word message sign may be used as an  
411 alternate to the Truck Crossing (W11-10) symbol sign (see Figure 6H-1) where there is an  
412 established construction vehicle crossing of the roadway.

413 Support:  
414 These locations might be relatively confined or might occur randomly over a segment of  
415 roadway.

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417  
418 **Section 6H.22 Comments:** NCUTCD agrees with 6H.22 as presented in the NPA, but  
419 recommends revising the Section number to 6H.21.

420  
421 **Section ~~6H.22~~6H.21 Shoulder Work Signs (W21-5, W21-5a, W21-5b)** [edit Section number]

422 Support:  
423 Shoulder Work signs (see Figure 6H-1) warn of maintenance, reconstruction, or utility  
424 operations on the highway shoulder where the roadway is unobstructed.

425 **Standard:**

426 **The Shoulder Work sign shall have the legend SHOULDER WORK (W21-5), RIGHT**  
427 **(LEFT) SHOULDER CLOSED (W21-5a), or RIGHT (LEFT) SHOULDER CLOSED XX**  
428 **FT or AHEAD (W21-5b).**

429 Option:  
430 The Shoulder Work sign may be used in advance of the point on a non-limited access  
431 highway where there is shoulder work. It may be used singly or in combination with a ROAD  
432 WORK NEXT XX MILES or ROAD WORK AHEAD sign.

433 *Guidance:*

434 *On freeways and expressways, the RIGHT (LEFT) SHOULDER CLOSED XX FT or AHEAD*  
435 *(W21-5b) sign followed by RIGHT (LEFT) SHOULDER CLOSED (W21-5a) sign should be used*  
436 *in advance of the point where the shoulder work occurs and should be preceded by a ROAD*  
437 *WORK AHEAD sign.*

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439  
440 **Section 6H.23 Comment:** NCUTCD agrees with 6H.23 as presented in the NPA, but  
441 recommends revising the Section number to 6H.22.

442  
443 **Section ~~6H.23~~6H.22 SURVEY CREW Sign (W21-6)** [edit Section number]

444 *Guidance:*  
445 *The SURVEY CREW (W21-6) sign (see Figure 6H-1) should be used to warn of surveying*  
446 *crews working in or adjacent to the roadway.*

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452 **Section 6H.24 Comment:** NCUTCD agrees with 6H.24 as presented in the NPA, but  
453 recommends revising the Section number to 6H.23.

454  
455 **Section ~~6H.24~~6H.23 UTILITY WORK Sign (W21-7)** [edit Section number]

456 Option:

457 The UTILITY WORK (W21-7) sign (see Figure 6H-1) may be used as an alternate to the  
458 ROAD (STREET) WORK (W20-1) sign for utility operations on or adjacent to a highway.

459 Support:

460 Typical examples of where the UTILITY WORK sign is used appear in Figures 6P-4, 6P-6,  
461 6P-10, 6P-15, 6P-18, 6P-21, 6P-22, 6P-26, and 6P-33.

462 Option:

463 The distance legend may be either XX FEET, XX MILES, or AHEAD.

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466 **Section 6H.25 Comment:** NCUTCD generally agrees with NPA 6H.25 as presented in the NPA,  
467 but recommends revising as follows:

- 468 • Revise the Section number to 6H.24
- 469 • Delete 'a' from first Standard
- 470 • Revise sign code from ~~RXX-X~~ to R22-2

471  
472 **Section ~~6H.25~~6H.24 Signs for Blasting Areas** [edit Section number]

473 Support:

474 Radio-Frequency (RF) energy can cause the premature firing of electric detonators (blasting  
475 caps) used in TTC zones.

476 **Standard:**

477 Road users shall be warned where blasting operations occur. A sequence of signs shall  
478 be prominently displayed to warn all road users of a blasting operations and to direct  
479 operators of mobile radio equipment, including cellular telephones, to turn off transmitters  
480 in a blasting area. These signs shall be covered or removed when there are no explosives in  
481 the area or the area is otherwise secured. [delete 'a']

482 The BLASTING ZONE AHEAD (W22-1) sign (see Figure 6H-1) shall be used in  
483 advance of any TTC zone where explosives are being used. The TURN OFF 2-WAY  
484 RADIO AND CELL PHONE (~~RXX-X~~22-2) and END BLASTING ZONE (W22-3) signs  
485 shall be used in sequence with this sign.

486 The TURN OFF 2-WAY RADIO AND CELL PHONE (~~RXX-X~~22-2) sign (see Section  
487 6G.11 and Figure 6G-1) shall follow the BLASTING ZONE AHEAD (W22-1) sign and  
488 shall be placed at least 1,000 feet before the beginning of the blasting zone. [edit sign  
489 identification]

490 The END BLASTING ZONE (W22-3) sign (see Figure 6H-1) shall be placed a  
491 minimum of 1,000 feet past the blasting zone.

492 The END BLASTING ZONE sign may be placed either with or preceding the END ROAD  
493 WORK sign.

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498 **Section 6H.26 Comment:** NCUTCD agrees with 6H.26 as presented in the NPA, but  
499 recommends revising the Section number to 6H.25.

500  
501 **Section ~~6H.26~~6H.25 Shoulder Signs and Plaque (W8-4, W8-9, W8-17, and W8-17P)** [edit  
502 **Section number]**

503 Option:

504 The SOFT SHOULDER (W8-4) sign (see Figure 6H-1) may be used to warn of a soft  
505 shoulder condition.

506 The LOW SHOULDER (W8-9) sign (see Figure 6H-1) may be used to warn of a shoulder  
507 condition where there is an elevation difference of 3 inches or less between the shoulder and the  
508 travel lane.

509 *Guidance:*

510 *The Shoulder Drop Off (W8-17) sign (see Figure 6H-1) should be used when an unprotected*  
511 *shoulder drop-off, adjacent to the travel lane, exceeds 3 inches in depth for a continuous length*  
512 *along the roadway, based on engineering judgment.*

513 Option:

514 A SHOULDER DROP-OFF (W8-17P) supplemental plaque (see Figure 6H-1) may be  
515 mounted below the W8-17 sign.

516

517

518 **Section 6H.27 Comment:** NCUTCD agrees with 6H.27 as presented in the NPA, but  
519 recommends revising the Section number to 6H.26.

520

521 **Section ~~6H.27~~6H.26 UNEVEN LANES Sign (W8-11)** [edit Section number]

522 *Guidance:*

523 *The UNEVEN LANES (W8-11) sign (see Figure 6H-1) should be used during operations that*  
524 *create a difference in elevation between adjacent lanes that are open to travel.*

525

526

527 **Section 6H.28 Comment:** NCUTCD agrees with 6H.28 as presented in the NPA, but  
528 recommends revising the Section number to 6H.27.

529 **Section ~~6H.28~~6H.27 STEEL PLATE AHEAD Sign (W8-24)** [edit Section number]

530 Option:

531 A STEEL PLATE AHEAD (W8-24) sign (see Figure 6H-1) may be used to warn road users  
532 that the presence of a temporary steel plate(s) might make the road surface uneven and might  
533 create slippery conditions during wet weather.

534

535

536 **Section 6H.29 Comment:** NCUTCD agrees with 6H.29 as presented in the NPA, but  
537 recommends revising the Section number to 6H.28.

538

539 **Section ~~6H.29~~6H.28 NO CENTER LINE Sign (W8-12)** [edit Section number]

540 *Guidance:*

541 *The NO CENTER LINE (W8-12) sign (see Figure 6H-1) should be used when the work*  
542 *obliterates the center line pavement markings. This sign should be placed at the beginning of the*  
543 *TTC zone and repeated at 2-mile intervals in long TTC zones.*

544 Support:  
545 Section 6J.02 contains information regarding temporary markings.  
546

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547  
548 **Section 6H.30 Comment:** NCUTCD agrees with 6H.30 as presented in the NPA, but  
549 recommends revising the Section number to 6H.29.  
550

551 **Section ~~6H.30~~6H.29 Reverse Curve Signs (W1-4 Series)** [edit Section number]

552 *Guidance:*

553 *In order to give road users advance notice of a lane shift, a Reverse Curve (W1-4, W1-4b, or*  
554 *W1-4c) sign (see Figure 6H-1) should be used when a lane (or lanes) is being shifted to the left*  
555 *or right. If the design speed of the curves is 30 mph or less, a Reverse Turn (W1-3) sign should*  
556 *be used.*

557 **Standard:**

558 **If a Reverse Curve (or Turn) sign is used, the direction of the reverse curve (or turn)**  
559 **shall be appropriately illustrated. Except as provided in Paragraph 3, the number of lanes**  
560 **illustrated on the sign shall be the same as the number of through lanes available to road**  
561 **users.**

562 **Option:**

563 Where two or more lanes are being shifted, a W1-4 (or W1-3) sign with an ALL LANES  
564 (W24-1cP) plaque (see Figure 6H-1) may be used instead of a sign that illustrates the number of  
565 lanes.

566 Where more than three lanes are being shifted, the Reverse Curve (or Turn) sign may be  
567 rectangular.  
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569  
570 **Section 6H.31 Comment:** NCUTCD agrees with 6H.31 as presented in the NPA, but  
571 recommends revising the Section number to 6H.30.  
572

573 **Section ~~6H.31~~6H.30 Double Reverse Curve Signs (W24-1 Series)** [edit Section number]

574 **Option:**

575 The Double Reverse Curve (W24-1, W24-1a, or W24-1b) sign (see Figure 6H-1) may be  
576 used where the tangent distance between two reverse curves is less than 600 feet, thus making it  
577 difficult for a second Reverse Curve (W1-4 series) sign to be placed between the curves. If the  
578 design speed of the curves is 30 mph or less, Double Reverse Turn signs should be used.

579 **Standard:**

580 **If a Double Reverse Curve (or Turn) sign is used, the direction of the double reverse**  
581 **curve (or turn) shall be appropriately illustrated. Except as provided in Paragraph 3, the**  
582 **number of lanes illustrated on the sign shall be the same as the number of through lanes**  
583 **available to road users.**

584 **Option:**

585 Where two or more lanes are being shifted, a W24-1 (or Double Reverse Turn sign showing  
586 one lane) sign with an ALL LANES (W24-1cP) plaque (see Figure 6H-1) may be used instead of  
587 a sign that illustrates the number of lanes.

588 Where more than three lanes are being shifted, the Double Reverse Curve (or Turn) sign may  
589 be rectangular.

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**Section 6H.32 Comment:** NCUTCD agrees with 6H.32 as presented in the NPA, but recommends revising the Section number to 6H.31.

**Section ~~6H.32~~6H.31 Advisory Speed Plaque (W13-1P)** [edit Section number]

Option:

In combination with a warning sign, an Advisory Speed (W13-1P) plaque (see Figure 6H-1) may be used to indicate a recommended speed through the TTC zone.

**Standard:**

The Advisory Speed plaque shall not be used in conjunction with any sign other than a warning sign, nor shall it be used alone. When used with orange TTC zone signs, this plaque shall have a black legend and border on an orange background. The plaque shall be at least 24 x 24 inches in size when used with a sign that is 36 x 36 inches or larger. Except in emergencies, an Advisory Speed plaque shall not be mounted until the recommended speed is determined by the highway agency.

Support:

Warning signs with advisory speed plaques inform drivers of the recommended operating speed based on temporary conditions within a TTC zone (see Section 2C.58). Examples include narrow lanes, temporary diversion (reverse curves), lane shifts, sight distance restrictions, rough road surface, bumps, low/no shoulder, workers on foot, work vehicles or equipment close to the open travel lane, or other conditions that indicate the need for reduced speed.

AASHTO and ITE design documents contain established engineering practices for the determination of the recommended advisory speeds for horizontal curves or locations with limited sight distance.

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**Section 6H.33 Comment:** NCUTCD generally agrees with NPA 6H.33 as presented in the NPA, but recommends revising as follows:

- Revise the Section number to 6H.32
- Add references to the NEXT XX FEET W16-4P plaque, since in urban areas it is reasonable to use a ‘feet’ designation, and is consistent with Section 2C.61

**Section ~~6H.33~~6H.32 Supplementary Distance Plaque (W7-3aP, W16-4P)** [edit Section number and add sign identification]

Option:

In combination with a warning sign, a Supplementary Distance (W7-3aP or W16-4P) plaque (see Figure 6H-1) with the legend NEXT XX MILES or NEXT XX FEET may be used to indicate the length of highway over which a work activity is being conducted, or over which a condition exists in the TTC zone. [add optional ‘FEET’ sign]

In long TTC zones, Supplementary Distance plaques with the legend NEXT XX MILES or NEXT XX FEET may be placed in combination with warning signs at regular intervals within the zone to indicate the remaining length of highway over which the TTC work activity or condition exists. [add optional ‘FEET’ sign]

**Standard:**

635 The Supplementary Distance plaque with the legend **NEXT XX MILES** or **NEXT XX**  
636 **FEET** shall not be used in conjunction with any sign other than a warning sign, nor shall it  
637 be used alone. When used with orange TTC zone signs, this plaque shall have a black  
638 legend and border on an orange background. The plaque shall be at least 30 x 24 inches in  
639 size when used with a sign that is 36 x 36 inches or larger. [add optional 'FEET' sign]

640 *Guidance:*

641 *When used in TTC zones, the Supplementary Distance plaque with the legend NEXT XX*  
642 *MILES or NEXT XX FEET should be placed below the initial warning sign designating that,*  
643 *within the approaching zone, a temporary work activity or condition exists.* [add optional  
644 'FEET' sign]

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646  
647 **Section 6H.34 Comment:** NCUTCD agrees with 6H.34 as presented in the NPA, but  
648 recommends revising the Section number to 6H.33.

650 **Section ~~6H.34~~6H.33 Motorcycle Plaque (W8-15P)** [edit Section number]

651 *Option:*

652 A Motorcycle (W8-15P) plaque (see Figure 6H-1) may be mounted below a LOOSE  
653 GRAVEL (W8-7) sign, a GROOVED PAVEMENT (W8-15) sign, a METAL BRIDGE DECK  
654 (W8-16) sign, or a STEEL PLATE AHEAD (W8-24) sign if the warning is intended to be  
655 directed primarily to motorcyclists.

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657  
658 **Section 6H.35 Comment:** NCUTCD agrees with 6H.35 as presented in the NPA, but  
659 recommends revising the Section number to 6H.34.

661 **Section ~~6H.35~~6H.34 ROAD WORK NEXT XX MILES Sign (G20-1)** [edit Section number]

662 *Guidance:*

663 *The ROAD WORK NEXT XX MILES (G20-1) sign (see Figure 6H-1) should be installed in*  
664 *advance of TTC zones that are more than 2 miles in length.*

665 *Option:*

666 The ROAD WORK NEXT XX MILES sign may be mounted on a Type 3 Barricade. The  
667 sign may also be used for TTC zones of shorter length.

668 **Standard:**

669 **The distance displayed on the ROAD WORK NEXT XX MILES sign shall be stated to**  
670 **the nearest whole mile.**

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672  
673 **Section 6H.36 Comment:** NCUTCD generally agrees with NPA 6H.36 as presented in the  
674 NPA, but recommends revising as follows:

- 675 • Revise the Section number to 6H.35
- 676 • Edit the Option for clarity
- 677 • Add Support material describing when an END ROAD WORK sign is not appropriate in  
678 accordance with NCUTCD recommendation 16B-TTC-04

680 **Section ~~6H.36~~6H.35 END ROAD WORK Sign (G20-2)** [edit Section number]

681 *Guidance:*

682 *When used, the END ROAD WORK (G20-2) sign (see Figure 6H-1) should be placed near*  
683 *the downstream end of the termination area, as determined by engineering judgment.*

684 *Option:*

685 The END ROAD WORK sign may be installed on the back of a warning sign facing the  
686 opposite direction of road users or on the back of a Type 3 Barricade.

687 The END ROAD WORK sign may be omitted if the end of the work zone is apparent to  
688 motorists or falls within a larger project's limits. The END ROAD WORK sign may be used for  
689 For normal daytime maintenance operations, the END ROAD WORK sign is optional. [edit for  
690 clarity]

691 *Support:*

692 Conditions could be such that posting of an END ROAD WORK sign is not appropriate. For  
693 example, it can be omitted if another TTC zone begins within 1 mile of the end of the workspace  
694 in rural areas, or about 0.25 miles within urban areas. [revise per 16B-TTC-04]

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696 **Section 6H.37 Comment:** NCUTCD agrees with 6H.37 as presented in the NPA, but  
697 recommends revising the Section number to 6H.36.

700 **Section ~~6H.37~~6H.36 PILOT CAR FOLLOW ME Sign (G20-4)** [edit Section number]

701 **Standard:**

702 The PILOT CAR FOLLOW ME (G20-4) sign (see Figure 6H-1) shall be mounted in a  
703 conspicuous position on the top or on the rear of a vehicle used for guiding one-way  
704 vehicular traffic through or around a TTC zone (see Section 6E.04).

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706 **Section 6H.38 Comments:** NCUTCD generally agrees with NPA 6H.38 as presented in the  
707 NPA, but recommends revising as follows:

- 708 • Edit the Section number to 6H.37
- 709 • Edit the title of the SHS to "Standard Highway Signs" publication
- 710 • Edit Guidance for consistency with other portions of this Chapter

711 **Section ~~6H.38~~6H.37 Other Warning Signs** [edit Section number]

712 *Option:*

713 Advance warning signs may be used by themselves or with other advance warning signs.

714 Besides the warning signs specifically related to TTC zones, several other warning signs in  
715 Part 2 may apply in TTC zones.

716 Word message warning signs other than those classified and specified in this Manual and the  
717 "Standard Highways Signs and Markings" book-publication (see Section 1A.05) may be  
718 developed and used based on engineering judgment to warn of special conditions in TTC zones.  
719 [edit title]

720 **Standard:**

721 **Except as provided in Sections 6F.01 and 6H.01, other warning signs that are used in**  
722 **TTC zones shall have black legends and borders on an orange background.**

723 *Guidance:*

726 Special ~~Word message~~ warning signs should comply with the general requirements of color,  
727 shape, and alphabet size and series. The sign message should be brief, legible, and clear. [edit  
728 for consistency]  
729