



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 11th Edition of the MUTCD Docket Number: FHWA-2020-0001

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Federal Register Item Numbers: 1-8

NPA MUTCD Section Number: Sections 1A.01-1A.06

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 1A. 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 #1, Parts 1-9 (General): Changes recommended based on Council action in Spring 2021.
- NPA #2, Part 1 (General): NCUTCD agrees with NPA content (no changes recommended).
- NPA #3, Section 1A.01: Changes recommended based on Council action in spring 2021.
- NPA #4, Section 1A.02: Changes recommended based on Council action in spring 2021.
- NPA #5, Section 1A.03: Changes recommended based on Council action in spring 2021.
- NPA #6, Section 1A.04: Changes recommended based on Council action in spring 2021.
- NPA #7, Section 1A.05: Changes recommended based on Council action in spring 2021.
- NPA #8, Section 1A.06: Changes recommended based on Council action in spring 2021.

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Parts 1-9 General Comments: NCUTCD agrees with the reorganization of the Parts of the MUTCD as presented in the NPA. NCUTCD also agrees with the new format for names of specific traffic control devices, using upper-case letters. NCUTCD notes that this new format for names has been inconsistently applied throughout the NPA text, and requests that this be rectified. Also, NCUTCD has the following recommendations regarding the upper case format:

1. That the upper case letter format be used for both word message legends and symbol legends; and
2. That when the upper case letter format is being used for signs (or pavement markings) that have both word message legend and symbol legend variants, the word “symbol” be used in the sign description, as in the following example:
“The NO PEDESTRIANS (R9-3) symbol sign may be used to prohibit pedestrians from crossing a roadway at an undesirable location or in front of a school or

42 other public building where a crossing is not designated. The NO PEDESTRIAN
43 CROSSING (R9-3a) word message sign may be used as an alternative to the R9-3
44 symbol sign.”

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48 **Part 1 General Comments:** NCUTCD agrees with the reorganization of Part 1 into 4 new
49 Chapters and incorporation of material from the current Introduction as presented in the NPA.
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53 **Section 1A.01 Comments:** NCUTCD generally agrees with 1A.01 as presented in the NPA, but
54 recommends an editorial revision to relocate the objective “D” regarding promoting safety and
55 efficiency to the top of the list of objectives, and adding the phrase “of all road users”. While we
56 recognize that the list is not intended to be a ranked priority, we believe that safety is the most
57 significant objective and moving it to top of the list sends a subtle, but significant message to
58 users of the MUTCD. Also, NCUTCD recommends the insertion of the phrase “the user of the
59 Manual has” in the final paragraph for clarity.
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61 **Section 1A.01 Purpose of the MUTCD**

62 Support: The purpose of the MUTCD is to establish national criteria for the use of traffic control
63 devices that meet the needs and expectancy of road users on all streets, highways, bikeways, and site
64 roadways open to public travel. This purpose is achieved through the following objectives:

65 X. Promote safety and efficiency of all road users through appropriate use of traffic control
66 devices. (relocate item D to be first in list and add phrase for clarity)

67 A. Promote national uniformity in the meaning and appearance of traffic control devices.

68 B. Promote national consistency in the use, installation, and operation of traffic control devices.

69 C. Provide basic principles for traffic engineers to use in making decisions regarding the use,
70 installation, operation, maintenance, and removal of traffic control devices.

71 ~~D. Promote safety and efficiency through appropriate use of traffic control devices.~~

72 Applicability of the MUTCD to facilities open to public travel is independent of the type of
73 ownership or jurisdiction (public or private) and the source of funding (Federal, State, local, or private).

74 This Manual presumes the user of the Manual has sufficient working knowledge, professional
75 training and experience, and education in the principles of engineering. Other resources can be consulted
76 to understand the basis for decisions that are made in which engineering study or judgment will be
77 applied. (add phrase for clarity)
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81 **Section 1A.02 Comments:** NCUTCD generally agrees with 1A.02 as presented in the NPA,
82 including the addition of new item F, but recommends revision of the Section title from “Traffic
83 Control Devices - Definition” to “Traffic Control Devices - General Description and Purpose”, to
84 avoid confusion with the actual definitions that are consolidated in Section 1C.02. NCUTCD
85 also recommends relocation of a portion of the text shown in the NPA as the Section 1C.02
86 definition of Traffic Control Device” to Section 1A.02 as Support text, because it is information
87 that is beyond what could be considered as a definition (Please see also NCUTCD comments on
88 Section 1C.02 regarding insertion within the definition of a reference to Section 1A.02.)

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90 **Section 1A.02 Traffic Control Devices – Definition General Description and Purpose**

91 Support:

92 As defined in Section 1C.02, traffic control devices include all signs, signals, markings, channelizing
93 devices, or other devices that use color, shapes, symbols, words, sounds, and/or tactile information for the
94 primary purpose of communicating a regulatory, warning, or guidance message to road users on a street,
95 highway, pedestrian facility, bikeway, pathway or site roadway open to public travel.

96 Infrastructure elements that restrict the road user’s travel paths or vehicle speeds, such as curbs, speed
97 humps, and other raised roadway surfaces, are not traffic control devices. Transverse or longitudinal
98 rumble strips are also not traffic control devices. Operational devices associated with the application of
99 traffic control strategies such as in-vehicle electronics, fencing, roadway lighting, barriers, and attenuators
100 are shown in the Manual for context but their design, application, and usage are not specified since they
101 are not traffic control devices. Relocate paragraph from proposed definition of Traffic Control
102 Device in Section 1C.02

103 Certain types of signs and other devices that do not have any traffic control purpose are sometimes
104 placed within the highway right-of-way by or with the permission of the public agency or the official
105 having jurisdiction over the street or highway. These signs and other devices are not considered to be
106 traffic control devices and provisions regarding their design and use are not included in this Manual.

107 Among these signs and other devices are the following:

- 108 A. Devices whose purpose is to assist highway maintenance personnel. Examples include markers
109 to guide snowplow operators, devices that identify culvert and drop inlet locations, and devices
110 that precisely identify highway locations for maintenance or mowing purposes.
- 111 B. Devices whose purpose is to assist fire or law enforcement personnel. Examples include markers
112 that identify fire hydrant locations, signs that identify fire or water district boundaries, speed
113 measurement pavement markings, small indicator lights to assist in enforcement of red light
114 violations, and photo enforcement systems.
- 115 C. Devices whose purpose is to assist utility company personnel and highway contractors, such as
116 markers that identify underground utility locations.
- 117 D. Signs posting local non-traffic ordinances.
- 118 E. Signs giving civic organization meeting information.
- 119 F. Messages displayed on changeable message signs for America’s Missing: Broadcast Emergency
120 Response (AMBER) alerts and homeland security information during declared states of
121 emergency (see Chapter 2L of this Manual for specific provisions and limitations).

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125 **Section 1A.03 Comments:** NCUTCD recommends entirely deleting 1A.03 as presented in the
126 NPA. NCUTCD agrees that the language is consistent with the 2012 MUTCD Strategic Plan;
127 however, it does not necessarily belong in the MUTCD itself. It is counterintuitive to suggest
128 that the Target Road User is “alert and attentive, . . . and is operating in a lawful manner . . .” when
129 there are provisions in the MUTCD that are specifically included for road users that are just the
130 opposite. This includes measures to enhance sign conspicuity, most warning signs, RRFBs,
131 PHBs, and many other devices and treatments. Either those items do not belong in the MUTCD
132 or the Target Road User is the person, persons, or machine that warrant such traffic control
133 devices. Please also note that proposed Section 1D.01 Purpose and Principles of Traffic Control
134 Devices includes Guidance that “*The proper use of traffic control devices should provide the*
135 *reasonable and prudent road user with the information necessary to efficiently and lawfully use*
136 *the streets, highways, pedestrian facilities, and bikeways.*” The concept of ‘target road user’ is
137 captured in that statement and is not needed here.

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Section 1A.03 Target Road Users

Support:

~~There are two groups of target road users for traffic control devices:~~

~~A. Operators of vehicles, including bicyclists—This target user is a reasonable and prudent individual who is alert and attentive, has demonstrated a basic proficiency in operating a vehicle on a specific facility, has demonstrated a basic understanding of traffic control devices and traffic laws, and is operating in a lawful manner that is appropriate for the facility and conditions, while demonstrating due care for the current conditions on the roadway.~~

~~B. Pedestrians—This target user is an alert and attentive individual who is functioning in a lawful manner that is appropriate for the facility and conditions, while demonstrating due care for the current conditions on the roadway. Pedestrians with disabilities might be blind or vision-impaired, have mobility limitations, or other impairments.~~

~~Because of the connectivity of the transportation network, familiarity of the target road users with a particular location cannot be presumed for the purpose of selecting and installing traffic control devices.~~

(delete entire section)

Section 1A.04 Comments: NCUTCD generally agrees with 1A.04 as presented in the NPA, but recommends several minor editorial revisions.

Section 1A.04 Use of the MUTCD

Standard:

Traffic control device principles in the MUTCD shall be developed for and used by individuals who are duly authorized and qualified to conduct traffic control device activities ([see Section 1D.02](#)).

Where MUTCD content requires a decision for implementation, such decisions shall be made by individuals who have the appropriate levels of experience and expertise to make traffic control device decisions.

Support:

See Section 1C.02 for definitions of “engineering study” and “engineering judgment.”

Guidance:

In making traffic control device decisions, individuals should consider the impacts of the decision on the following: safety and operational efficiency (mobility) of road users at that location; the effective utilization of agency resources; cost-effectiveness; and enforcement and education aspects of traffic control devices.

Support:

Throughout this Manual the headings Standard, Guidance, Option, and Support, the meanings of which are defined in Section 1C.01, are used to classify the nature of the text that follows. Figures and tables, including the notes contained therein, supplement the text and might constitute a Standard, Guidance, Option, or Support. The user needs to refer to the appropriate text to classify the nature of the figure, table, or note contained therein.

Guidance:

Except when a specific numeral is required or recommended by the text of a Section of this Manual, numerals displayed on the images of devices in the figures that specify quantities such as times, distances,

184 *speed limits, and weights should be regarded as examples only. When installing any of these devices, the*
185 *numerals should be appropriately altered to fit the specific situation.*

186 *Similarly, destination names, route numbers, and State route shields that are displayed on the images*
187 *of devices in the figures should be regarded as examples only. When installing any of these devices, the*
188 *destination names, route numbers, and State route shields should be appropriately altered to fit the*
189 *specific situation.*

190 Support:

191 The following information will be useful when reference is being made to a specific portion of text in
192 this Manual.

193 There are nine Parts in this Manual and each Part ~~includes~~ ~~comprises~~ one or more Chapters. Each
194 Chapter ~~includes~~ ~~comprises~~ one or more Sections. Parts are given a single-digit numerical identification,
195 such as Part 2 – Signs. Chapters are identified by the Part number and a letter, such as Chapter 2B –
196 Regulatory Signs. Sections are identified by the Chapter number and letter followed by a decimal point
197 and a 2-digit number, such as Section 2B.03 – Size of Regulatory Signs. In some Chapters the Sections
198 are grouped together by subject into un-numbered sub-chapters with a heading, such as “Signing for
199 Right-of-Way at Intersections” (Sections 2B.06 through 2B.22).

200 Each Section ~~includes~~ ~~comprises~~ one or more paragraphs. The paragraphs are indented and are
201 identified by a number. Paragraphs are counted from the beginning of each Section without regard to the
202 intervening text headings (Standard, Guidance, Option, or Support) or any intervening text in embedded
203 Figures or Tables. Some paragraphs have lettered or numbered items. As an example of how to cite this
204 Manual, the phrase “Not less than 40 feet beyond the stop line” that appears in Section 4D.07 of this
205 Manual would be referenced in writing a “Section 4D.07, Par.1, A.1,” and would be verbally referenced
206 as “Item A.1 of Paragraph 1 of Section 4D.07.”

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210 **Section 1A.05 Comments:** NCUTCD recommends revising 1A.05 as follows. We base these
211 recommendations on the following criteria for listing as developed by NCUTCD:

- 212 1. Addresses only items that meet the definition of a traffic control device as defined by the
213 Manual.
- 214 2. Is the most appropriate reference to supplement the MUTCD by providing additional
215 background information to assist in device application and bridge gaps between Manual
216 provisions and field decisions.
- 217 3. Augments the Manual by providing information, data collection, considerations, and criteria
218 needed to exercise engineering judgment or prepare an engineering study.
- 219 4. Enables smaller jurisdictions to implement Manual requirements without special training,
220 seeking other information sources or engaging a Consultant.
- 221 5. Introduces the application of new technology or newer devices for national implementation.
- 222 6. Deals with traffic control devices on the roadway, walkway, path, railway, airports, transit,
223 parking facilities, private property or other transportation facilities.
- 224 7. Publication is based on significant research approved by peers, or multiple field applications
225 with documented effectiveness or an authoritative source.
- 226 8. Has been reviewed by one or more of the NCUTCD Technical Committees and
227 recommended for listing as a reference.

228 NCUTCD recommends adding the following publications:

- 229 • “AASHTO Transportation Glossary (Highway Definitions),” 2009 Edition (American
230 Association of State Highway and Transportation Officials - AASHTO) - add because the
231 document is referenced in Section 1C.02.

- 232 • “LRFD Specifications for Structural Supports for Highway Signs, Luminaries and Traffic
 233 Signals”, 6th Edition, 2015, 2017, 2019 Interim Revision, AASHTO - add, as this document
 234 is consistent with Item 8 of this list for traffic signal heads and their supports.
- 235 • “Standard Specifications for Reflective Sheeting for Traffic Control”, ATSM D4956-19,
 236 2019
- 237 • “Urban Bikeway Design Guide” 2nd Edition 2014 (NACTO)
 238 NCUTCD recommends revising the references to the following publications:
- 239 • “American National Standard for High-Visibility Public Safety Vests (International Safety
 240 Equipment Association—ISEA) - reference latest adopted edition (2020).
- 241 • “A Policy on Geometric Design of Highways and Streets,” (American Association of State
 242 Highway and Transportation Officials—AASHTO - reference latest adopted edition (2018).
- 243 • “Highway Capacity Manual, Sixth Edition: A Guide for Multimodal Mobility Analysis,”
 244 (TRB) - reference latest adopted edition (6th Edition, 2016).
- 245 • “Maintaining Traffic Sign Retroreflectivity,” 2013 Edition (FHWA) - replace with “Methods
 246 for Maintaining Traffic Sign Retroreflectivity, FHWA-HRT-08-026, November 2007, as as it
 247 is more comprehensive than the 2013 document, which is merely a 4-page fact sheet.
- 248 • “Manual for Assessing Safety Hardware,” (AASHTO) - reference latest adopted edition
 249 (2016).
- 250 • “NEMA Standards Publication TS 4-2010 2016 Hardware Standards for Dynamic Message
 251 Signs (DMS) With NTCIP Requirements,” (National Electrical Manufacturers Association—
 252 NEMA) - reference latest adopted edition (2016).
- 253 • “Pedestrian Traffic Control Signal Indications--Light Emitting Diode (LED) Pedestrian
 254 Traffic Signal Modules,” (ITE) - reference latest adopted edition (2011).
- 255 • “Recommended Practice for Design and Maintenance of Roadway and Parking Facility
 256 Lighting, Practice for Roadway Lighting,” ANSI/IES RP-8 (Illuminating Engineering
 257 Society—IES, and American National Standards Institute - ANSI) - reference latest adopted
 258 edition (2018).
- 259 • “Recommended Practice for Preemption of Traffic Signals Near Railroad Crossings,” (ITE) -
 260 reference latest adopted edition (2021).
- 261 • “Highway-Rail Crossing Handbook,” (FHWA) - reference latest adopted edition (2019).
- 262 • “Signal Timing Manual Second Edition (NCHRP Report 812) - reference latest adopted
 263 edition (2015).
- 264 • “2010 ADA Standards for Accessible Design,” US Department of Justice - reference latest
 265 adopted edition (2010).
- 266 • “Traffic Engineering Handbook,” (ITE) - reference latest adopted edition (2016).
- 267 NCUTCD recommends deleting the following publications:
- 268 • “AAA School Safety Patrol Operations Manual,” 2006 Edition (American Automobile
 269 Association-AAA) - delete as it does not describe how or when to erect traffic control
 270 devices nor does it offer guidance about the operation of devices.
- 271 • “Guide to Metric Conversion,” 1993 Edition (AASHTO) - delete because the metric system
 272 no longer applies to the MUTCD.
- 273 • “Guidelines for Accessible Pedestrian Signals (NCHRP Web-Only Document 117B),” 2008
 274 Edition (TRB) - delete because this document has been superseded by “(Proposed) Public
 275 Rights-of-Way Accessibility Guidelines”.

- 276 • “Guidelines for Determining Traffic Signal Change and Clearance Intervals: A
277 Recommended Practice of Institute of Transportation Engineers,” 2020 (Institute of
278 Transportation Engineers – ITE) - delete because NCUTCD recommends deleting this as a
279 reference in Part 4, because no State has adopted it, because many questions have been raised
280 about the reasonableness of the equation for calculating values for turning movements, and
281 further research is planned to consider revisions to the policy.
 - 282 • “LRFD Movable Highway Bridge Design Specifications,” 2007 Edition (AASHTO) - delete
283 because this document is scheduled to be revised through NCHRP in 2021 and this edition
284 would no longer be current at the time of Final Rule.
 - 285 • “Manual of Traffic Signal Design,” 1998 Edition (Institute of Transportation Engineers—
286 ITE) - delete as it is out of date and not referenced in Part 4.
 - 287 • “Purchase Specifications for Flashing and Steady Burn Warning Lights”, 1981 Edition (ITE)
288 - deleted in NPA.
 - 289 • “Recommended Procedures for the Safety Performance Evaluation of Highway Features,”
290 (NCHRP Report 350), 1993 Edition (TRB) - delete as this document has been replaced by
291 the 2016 edition of the AASHTO Manual for Assessing Safety Hardware (MASH), item #16.
 - 292 • “Traffic Engineering Metric Conversion Folders—Addendum to the Guide to Metric
293 Conversion,” 1993 Edition (AASHTO) - delete because the metric system no longer applies
294 to the MUTCD.
 - 295 • “Traffic Signal Lamps”, 1980 Edition (ITE) - deleted in NPA.
 - 296 • “Travel Better, Travel Longer: A Pocket Guide to Improving Traffic Control and Mobility
297 for Our Older Population (FHWA-OP-03-098),” 2003 Edition (FHWA) - delete as it is out of
298 date and not referenced in the MUTCD.
- 299 NCUTCD also recommends revising the last Standard statement to avoid potential
300 misinterpretation as to which resource is being revised.

302 Section 1A.05 Relation to Other Publications

303 Standard:

304 To the extent that they are incorporated by specific reference, the latest editions of the
305 following publications, or those editions specifically noted, shall be a part of this Manual:
306 “Standard Highway Signs” publication (FHWA); and “Color Specifications for
307 Retroreflective Sign and Pavement Marking Materials” (appendix to subpart F of Part 655 of
308 Title 23 of the Code of Federal Regulations).

309 Support:

310 The “Standard Highway Signs” publication includes standard alphabets and symbols and arrows
311 for signs and pavement markings. Other publications that are not regulatory in nature, and are not
312 independently legally enforceable, but might be useful sources of information with respect to the use
313 of this Manual include:

314 [X. “AASHTO Transportation Glossary \(Highway Definitions\),” 2009 Edition \(American
315 Association of State Highway and Transportation Officials -- AASHTO\)](#) (add - referenced in
316 [1C.02](#))

317 ~~1. “AAA School Safety Patrol Operations Manual,” 2006 Edition (American Automobile
318 Association-AAA)~~ (delete)

319 2. “Accessible Pedestrian Signals—A Guide to Best Practices (NCHRP Web-Only Document
320 117A),” 2008 Edition (Transportation Research Board—TRB)

- 321 3. “American National Standard for High-Visibility Public Safety Vests,” (ANSI/ISEA 207-
322 [20202011](#)), [20202011](#) Edition (International Safety Equipment Association—ISEA). **(revise**
323 **to latest edition (2020)**)
- 324 4. “American National Standard for High-Visibility Safety Apparel and Headwear (ANSI/ISEA
325 107-2010), 2010 Edition (ISEA)
- 326 5. “A Policy on Geometric Design of Highways and Streets,” ~~2011~~ 2018 Edition (American
327 Association of State Highway and Transportation Officials—AASHTO **(revise to latest**
328 **edition (2018)**)
- 329 6. “Changeable Message Sign Operation and Messaging Handbook (FHWA-OP-03-070),” 2004
330 Edition (Federal Highway Administration—FHWA)
- 331 7. “Designing Sidewalks and Trails for Access—Part 2—Best Practices Design Guide (FHWA-EP-
332 01- 027),” 2001 Edition (FHWA)
- 333 8. “Equipment and Materials Standards of the Institute of Transportation Engineers,” 1988 Edition
334 (available at <http://www.ite.org/standards/led/signals.asp>); which includes “Chapter 1 – Traffic
335 Signal Lamps,” 1980 Edition; “Chapter 2 – Vehicle Traffic Control Signal Heads,” 1985
336 Edition; “Chapter 3 – Pedestrian Traffic Control Signal Indications,” 1985 Edition; and
337 “Chapter 13 – Purchase Specification for Flashing and Steady Burn Warning Lights,” 2001
338 Edition (ITE)
- 339 9. “Federal-Aid Highway Program Guidance on High Occupancy Vehicle (HOV) Lanes,” 2012
340 (FHWA)
- 341 10. “Guide for the Development of Bicycle Facilities,” 2012 Edition (AASHTO)
- 342 11. “Guide for the Planning, Design, and Operation of Pedestrian Facilities,” 2004 Edition
343 (AASHTO)
- 344 ~~12. “Guide to Metric Conversion,” 1993 Edition (AASHTO) (delete)~~
- 345 ~~13. “Guidelines for Accessible Pedestrian Signals (NCHRP Web-Only Document 117B),” 2008~~
346 ~~Edition (TRB) (delete - superseded by PROWAG)~~
- 347 ~~14. 11. “Guidelines for Determining Traffic Signal Change and Clearance Intervals: A~~
348 ~~Recommended Practice of Institute of Transportation Engineers,” 2020 (Institute of Transportation~~
349 ~~Engineers—ITE) (delete)~~
- 350 15. “Guidelines for the Selection of Supplemental Guide Signs for Traffic Generators Adjacent to
351 Freeways,” 5th Edition/Guide Signs, Part II: Guidelines for Airport Guide Signing/Guide
352 Signs, Part III: List of Control Cities for Use in Guide Signs on Interstate Highways,” Item
353 Code: GSLC, 2016 Edition (AASHTO)
- 354 16. “Highway Capacity Manual, [Sixth Edition: A Guide for Multimodal Mobility Analysis](#),” ~~2010~~
355 ~~2016~~ Edition (TRB) **(revise to latest edition (2016)**)
- 356 [xx. “LRFD Specifications for Structural Supports for Highway Signs, Luminaries and Traffic](#)
357 [Signals”, 6th Edition, 2015, 2017, 2019 Interim Revision, AASHTO](#) **(add as this document is**
358 **consistent with Item 8 above)**
- 359 ~~17. “LRFD Movable Highway Bridge Design Specifications,” 2007 Edition (AASHTO) (delete)~~
- 360 18. ~~“Maintaining Traffic Sign Retroreflectivity,” 2013 Edition (FHWA)~~ “Methods for Maintaining
361 Traffic Sign Retroreflectivity, FHWA-HRT-08-026, November 2007 **(replace)**
- 362 19.- “Manual for Assessing Safety Hardware,” ~~2009~~ 2016 Edition (AASHTO) **(revise to latest**
363 **edition (2016)**)

- 364 ~~20. “Manual of Traffic Signal Design,” 1998 Edition (Institute of Transportation Engineers—ITE)~~
365 ~~(delete)~~
- 366 21. “Manual of Transportation Engineering Studies, 2nd Edition,” 2010 Edition (ITE)
- 367 22. “NEMA Standards Publication TS 4-~~2010~~ 2016 Hardware Standards for Dynamic Message
368 Signs (DMS) With NTCIP Requirements,” ~~2010~~ 2016 Edition (National Electrical
369 Manufacturers Association—NEMA) **(revise to latest edition (2016))**
- 370 23. “Occupational Safety and Health Administration Regulations (Standards - 29 CFR), General
371 Safety and Health Provisions - 1926.20,” amended December 12, 2008 (Occupational Safety
372 and Health Administration—OSHA)
- 373 24. “Pedestrian Traffic Control Signal Indications--Light Emitting Diode (LED) Pedestrian Traffic
374 Signal Modules,”—~~2010~~ 2011 Edition (ITE) **(revise to latest edition (2011))**
- 375 25. “[Recommended Practice for Design and Maintenance of Roadway and Parking Facility](#)
376 [Lighting, Practice for Roadway Lighting](#),” [ANSI/IES RP-8-18, 2018](#)~~2004~~ (Illuminating
377 Engineering Society—IES, and American National Standards Institute - ANSI) **(revise to**
378 **latest edition (2018))**
- 379 26. “[Recommended Practice for](#) Preemption of Traffic Signals Near Railroad Crossings,” ~~2006~~
380 ~~2021~~ Edition (ITE) **(revise to latest edition (2021))**
- 381 ~~27. NCUTCD agrees with the NPA in deleting “Purchase Specifications for Flashing and~~
382 ~~Steady Burn Warning Lights”, 1981 Edition (ITE).~~
- 383 28. “~~Railroad Highway Grade Crossing Handbook—Revised Second Edition (FHWA-SA-07-~~
384 ~~010),” 2007 Highway-Rail Crossing Handbook, 3rd Edition (FHWA-SA-18-040/FRA-RRS-18-~~
385 ~~0)1 2019 Edition (FHWA) (revise to latest edition (2019))~~
- 386 29. “Ramp Management and Control Handbook (FHWA-HOP-06-001),” 2006 Edition (FHWA)
- 387 ~~30. “Recommended Procedures for the Safety Performance Evaluation of Highway Features,”~~
388 ~~(NCHRP Report 350), 1993 Edition (TRB) (delete - superseded by 2016 MASH)~~
- 389 31. “Roadside Design Guide,” 2011 Edition (AASHTO)
- 390 32. “Roundabouts-An Informational Guide. 2nd Edition(NCHRP Report 672),” 2010 Edition
391 (TRB)
- 392 33. “Safety Guide for the Prevention of Radio Frequency Radiation Hazards in the Use of
393 Commercial Electric Detonators (Blasting Caps),” Safety Library Publication No. 20, 2011
394 Edition (Institute of Makers of Explosives)
- 395 34. “Signal Timing Manual [Second Edition, 2015 \(NCHRP Report 812\)](#) (~~FHWA HOP-08-024),”~~
396 ~~2008 Edition (FHWA)~~ **(revise to latest edition (2015))**
- 397 35. “Signalized Intersections: an Informational Guide (FHWA-SA-13-027),” 2013 Edition
398 (FHWA)
- 399 [xx. “Standard Specifications for Reflective Sheeting for Traffic Control”, ATSM D4956-19, 2019](#)
400 **(add)**
- 401 36. “[2010 ADA Standards for Accessible Design](#)~~The Americans with Disabilities Act Accessibility~~
402 ~~Guidelines for Buildings and Facilities (ADAAG),” 2010 Edition, US Department of~~
403 ~~Justice, July 1998 Edition as Amended Through September 2002 (The U.S. Access Board)~~
404 **(revise to latest edition (2010))**
- 405 37. “Traffic Control Devices Handbook,” 2013 Edition (ITE)

- 406 38. “Traffic Detector Handbook, Third Edition (FHWA-HRT-06-018 & 139)” 2006 Edition
 407 (FHWA)
- 408 39. “Traffic Engineering Handbook,” 2009 7th Edition 2016 (ITE) (revise to latest edition
 409 2016)
- 410 ~~40. “Traffic Engineering Metric Conversion Folders—Addendum to the Guide to Metric
 411 Conversion,” 1993 Edition (AASHTO) (delete)~~
- 412 ~~41. NCUTCD agrees with the NPA in deleting “Traffic Signal Lamps”, 1980 Edition
 413 (ITE).~~
- 414 ~~42. “Travel Better, Travel Longer: A Pocket Guide to Improving Traffic Control and Mobility for
 415 Our Older Population (FHWA OP 03 098),” 2003 Edition (FHWA) (delete)~~
- 416 43. “2014 AREMA Communications & Signals Manual,” (American Railway Engineering &
 417 Maintenance-of-Way Association—AREMA)
- 418 44. “Uniform Vehicle Code (UVC) and Model Traffic Ordinance, 2000 Edition” and subsequent
 419 updates to “Rules of the Road” through 2014 (National Committee on Uniform Traffic Control
 420 Devices—NCUTCD)
- 421 xx. “Urban Bikeway Design Guide” 2nd Edition 2014 (NACTO) (add)
- 422 45. “Vehicle Traffic Control Signal Heads: Light Emitting Diode (LED) Circular Signal
 423 Supplement,” 2005 Edition (ITE)
- 424 46. “Vehicle Traffic Control Signal Heads: Light Emitting Diode (LED) Vehicle Arrow Traffic
 425 Signal Supplement,” 2007 Edition (ITE)

426 Contact information for the organizations that publish the references in the preceding list is
 427 contained in Appendix A3 of this Manual.

428 The provisions of this Manual have been developed based on the content included in the specific
 429 editions of the resources listed in Paragraph 3 of this Section. Newer editions of those resources are
 430 typically reflected in subsequent editions of or revisions to this Manual, which might result in one or
 431 more changes in the provisions to which the resources apply.

432 **Standard:**

433 **To the extent that they are referenced in this Manual, the resources listed in this Section shall**
 434 **refer only to the specific edition cited. Subsequent editions of those resources shall not be applied**
 435 **to the provisions of this Manual until such time as this Manual it is officially revised. Add phrase**
 436 **to avoid potential misinterpretation as the resources being revised.**

439

440 **Section 1A.06 Comments:** NCUTCD recommends revising 1A.06 since the Uniform Vehicle
 441 Code, historically published by the National Committee on Uniform Traffic Laws and
 442 Ordinances (NCUTLO) has not been revised since 2000 and that NCUTLO no longer exists as
 443 an organization and thus has no plans to keep it maintained. NCUTCD notes the important
 444 relationship between uniform rules of the road and uniform traffic control devices and has
 445 committed to revise, update, and publish the UVC “Rules of the Road,” the portion of the UVC
 446 that deals with road user behaviors in compliance with traffic control devices. The
 447 recommended changes to this section reflect this commitment by NCUTCD.

448

449 **Section 1A.06 Uniform Vehicle Code - Rules of the Road**

450 Support:

451 The “Uniform Vehicle Code” (UVC) ([see Section 1A.05](#)) is one of the publications
452 referenced in the MUTCD. The UVC contains a model set of motor vehicle codes and traffic
453 laws for use throughout the United States, the intent of which is [to have a uniform set of laws](#)
454 [relative to compliance with traffic control devices and](#) to promote national uniformity in these
455 laws. The Rules of the Road contained in the UVC are intended to be recommendations for
456 States to adopt in their State statutes and are not independently legally enforceable. **(revise for**
457 **clarity)**

458 [The National Committee on Uniform Traffic Control Devices \(NCUTCD\) has committed to](#)
459 [update and maintain the “Rules of the Road” that are part of the UVC model set of motor vehicle](#)
460 [codes and traffic laws. The NCUTCD can be contacted relative to any questions on the status of](#)
461 [updated Rules of the Road.](#) **(add Support to describe current situation)**

462 *Guidance:*

463 *The actions required of road users to obey regulatory devices should be specified by State*
464 *statute, or in cases not covered by State statute, in local ordinances or resolutions. Such statutes,*
465 *ordinances, and resolutions should be consistent with the “Uniform Vehicle Code” (see Section*
466 *1A.05).*