Technical Changes in Revision 1 of the Virginia Supplement to the 2009 MUTCD

-In January 2012, the Virginia Supplement to the 2009 MUTCD became effective.

⁻The Virginia Supplement to the MUTCD is a living document, and will be updated over time. Please see http://www.virginiadot.org/business/Virginia_mutcd_supplement.asp for the most recent version of the Supplement.

PART	SECTION NUMBER	SECTION TITLE	NEW TABLE / FIGURE / PARAGRAPH NUMBER	TABLE / FIGURE TITLE	REVISION TOPIC	SIGN CODE	REVISION DESCRIPTION
PART 1: GENERAL	Section 1A.13	Definitions of Headings, Words, and Phrases in this Manual	Paragraph 5		Definition of Limited Access Highway		Added a statement to the Definition for Limited Access Highway to indicate that this is a legal definition, and to clarify that a link to the Code of Virginia is provided in the Appendix. Since this is a term of legal significance, the definition itself cannot be modified.
	Section 2A.13	Word Messages	Paragraph 13		Sign Lettering		Clarified a Standard statement regarding lower case loop heights of mixed-case legends for FHWA standard highway alphabets.
DART 3:	Section 2A.13	Word Messages	Paragraphs 16 and 17		Clearview Sign Lettering		Changed the use of Clearview lettering on positive contrast guide signs from a Standard to an Option, and clarified that Clearview is only for the mixed-case portion of the legend. Added a Standard that all other sign legend shall use standard highway alphabets with an exception for Community Wayfinding Signs. Also incorporated a reference to Section 2E.14 and a definition of positive contrast.
PART 2: SIGNS	Section 2A.18	Mounting Height	Paragraph 14	Examples of Heights and Lateral Locations of Sign Installations	Overhead Signs	Overhead Sign - Drawing H	Revised Guidance statement to clarify the vertical clearance noted is to any hardware mounted below the sign panel, not just luminaire assemblies.
	Section 2A.18	Mounting Height	Figure 2A-2(VA)	Examples of Heights and Lateral Locations of Sign Installations	Overhead Signs	Overhead Sign - Drawing H	Revised note regarding vertical clearance of overhead sign structures to match revised text in Paragraph 14.
	Section 2B.09	YIELD Sign Applications	Paragraph 2 and 3		YIELD Sign	R1-2	Added Guidance and Option statements for the use of YIELD signs at the entrance to a roadway.

⁻This table provides an overview of technical changes between Revision 1 of the Virginia Supplement to the MUTCD and the original version of the 2011 Virginia Supplement to the MUTCD.

⁻The effective date of Revision 1 of the Virginia Supplement to the 2009 MUTCD is: September 30, 2013 for day-to-day operations and January 1, 2014 for projects advertised for bid on or after that date.

	SECTION		NEW TABLE / FIGURE /	TABLE /		SIGN	
PART	NUMBER	SECTION TITLE	PARAGRAPH NUMBER	FIGURE TITLE	REVISION TOPIC	CODE	REVISION DESCRIPTION
	Section 2B.13	Speed Limit and End XX Mile Speed Signs (R2-1, R2-V2)	Paragraph 22		Photo Enforcement Signs and Plaques		Added reference to Section 2B.55 for discussion of photo enforcement signs and plaques.
	Section 2B.13	Speed Limit and End XX Mile Speed Signs (R2-1, R2-V2)	Figure 2B-3(VA)		Traffic Signal - PHOTO ENFORCED Sign	Note	Added note referencing Figure 2B-V9 for Traffic Signal - PHOTO ENFORCED sign.
	Section 2B.41	Wrong-Way Traffic Control at Interchange Ramps	Paragraph 2 and 3		Yellow Lane Lines		Changed a Standard to Guidance for the use of double solid yellow lines approaching ramp intersection.
	Section 2B.41	Wrong-Way Traffic Control at Interchange Ramps	Paragraph 6		Exit Ramp Terminal Signing		Reverted a Standard to Guidance for the use of ONE WAY signs at interchange entrance ramps.
PART 2: SIGNS	Section 2B.41	Wrong-Way Traffic Control at Interchange Ramps	Figure 2B-18(VA)	Example of Application of Regulatory Signing and Pavement Markings at an Exit Ramp Termination to Deter Wrong- Way Entry	Exit Ramp Terminal Signing		Added a note to the figure, regarding the mounting of signs on the back of STOP or YIELD signs and referring the reader to the appropriate MUTCD section for more information.
	Section 2B.46	Parking, Standing, and Stopping Signs (R7 and R8 Series)	Paragraph 2		Parking, Standing, and Stopping Signs		Added text to a Support statement, referring the reader to another section for information on the modification of Parking, Standing, and Stopping signs.
	Section 2B.53	Traffic Signal Signs (R10-5 through R10- 30)	Paragraph 2, 3, and 4		LEFT TURN YIELD ON FLASHING YELLOW ARROW Sign	R10-V1	Within existing Guidance and Option statements, added reference to a new sign incorporated into the Supplement, the LEFT TURN YIELD ON FLASHING YELLOW ARROW sign.
	Section 2B.53	Traffic Signal Signs (R10-5 through R10- 30)	Figure 2B-27(VA)	Traffic Signal Signs and Plaques	LEFT TURN YIELD ON FLASHING YELLOW ARROW sign	R10-V1	Added to the figure the LEFT TURN YIELD ON FLASHING YELLOW ARROW sign.

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	Section 2B.55		Paragraphs 4, 5, 6, 7, and 8		Traffic Signal - PHOTO ENFORCED sign	R10-18a	Incorporated Standards, Guidance, and Options for the use of the Traffic Signal - PHOTO ENFORCED sign, in accordance with the terms of FHWA approval.
	Section 2B.55	FENDER BENDER Sign (R16-4, R16-4	Figure 2B-V1		Traffic Signal - PHOTO ENFORCED Sign		Added the Traffic Signal - PHOTO ENFORCED sign. Added a reference to the Work Area Protection Manual for temporary traffic control uses of the
	Section 2B.65 Section 2B.V2	Radar and Speed Limit Enforcement Signs (R0-V3, R0-	Paragraph 3 Title		SPEED LIMIT ENFORCED BY AIRCRAFT sign	R16-4(V)	Added the sign designation RO-V7 into the section title.
PART 2: SIGNS	Section 2B.V7	Commercial Vehicle Lane Restriction Signs (R4-V Series)	Paragraph 1		Commercial Vehicle Definition		Added reference to the Code of Virginia for the legal definition of commercial vehicle.
	Section 2C.06	Horizontal Alignment Warning Signs	Paragraphs 4, 5, 6, 7, and 8		Ball-Bank Indicators		Added Guidance and Option statements (relocated from Section 2C.08) regarding traditional ball-bank indicators. Augmented the information to clarify that "equivalent devices" may also be used.
	Section 2C.08	Advisory speed Plaque (W13-1P)	Paragraph 7		Ball-Bank Indicators		Removed content regarding traditional ball-bank indicators (relocated to Section 2C.06), and added reference to Section 2C.06 for new location of the content. The use of ball-bank indicators was changed from a Standard to Guidance.
	Section 2C.21	ONE LANE BRIDGE Sign (W5-3)	Paragraphs 3 and 4		Sign and Pavement Markings at One Lane Bridge Structures		Added a reference to a new Figure 2C-V1 showing typical placement of signs on approaches to a one-lane bridge. Also added reference to Table 2C-4 for sign placement.
	Section 2C.21	ONE LANE BRIDGE Sign (W5-3)	Figure 2C-V1	Typical Signing and Markings for One Lane Bridge Approach	Sign and Pavement Markings at One Lane Bridge Structures		Added a new figure showing typical signs and pavement markings for approaches to a one lane bridge.

PART	SECTION NUMBER	SECTION TITLE	NEW TABLE / FIGURE / PARAGRAPH NUMBER	TABLE / FIGURE TITLE	REVISION TOPIC	SIGN CODE	REVISION DESCRIPTION
	Section 2C.27	Low Clearance Signs (W12-2 and W12-2a)	Paragraph 7		Low Clearance Structure Signing		Added reference to a new Figure 2C-V2 showing required and recommended signing on roadways approaching a low clearance structure.
	Section 2C.27	Low Clearance Signs (W12-2 and W12-2a)	Figure 2C-V2	Low Clearance Structure Signing	Low Clearance Structure Signing		Added a new figure showing required and recommended signing approaching a low clearance structure.
	Section 2C.27	Low Clearance Signs (W12-2 and W12-2a)	Table 2C-V1	Minimum Signing for Vertical Clearances of Structures	Low Clearance Structure Signing		Modified the format of the table to explicitly state where signs are "required," "recommended" or "optional." Added a row to the table for clearances greater than 14 feet 5 inches, to clarify that signs are optional under those conditions. Added a new recommendation for sign placement 1,500 feet in advance of structures with 14 feet 4 inches to 14 feet 5 inches of clearance.
PART 2: SIGNS	Section 2C.49	Vehicular Traffic Warning Signs (W8- 6, W11-1, W11-5, W11-5a, W11-8, W11-10, W11-11, W11-12P, W11-14, W11-15 and W11- 15a, W11-V1, W11- V3)			RESCUE SQUAD sign	W11-V1	Added Guidance regarding the use of the RESCUE SQUAD word message sign versus the Emergency Vehicle symbol warning sign.
	Section 2D.43	Street Name Signs (D3-1, D3-1a, D3- V1, D3-V1a, D3- V1b, or D3-V3)	Paragraph 6		Street Name Signs		Added an Option for when sign panel and letter heights may be adjusted on post-mounted street name signs.
	Section 2D.43	Street Name Signs (D3-1, D3-1a, D3- V1, D3-V1a, D3-	Paragraph 7		Street Name Sign Lettering		Added Guidance clarifying only those conditions under which minimum letter heights should be reduced on overhead street name signs, and the manner in which the reduction should be determined by the designer.
	Section 2D.43	Street Name Signs (D3-1, D3-1a, D3- V1, D3-V1a, D3- V1b, or D3-V3)	Table 2D-2	Recommended Minimum Letter Heights on Street Name Signs	Street Name Sign Lettering	Title	Reverted figure title to the Federal MUTCD title, specifically to include the word "Recommended". Reverted Table number back to the Federal MUTCD number 2D-2.
	Section 2D.V1	OLD (M4-V7) Auxiliary Signs	Paragraph 1		OLD Auxiliary Sign	M4-V7	Corrected sign designation/number.

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	Section 2E.14	Size and Style of Letters and Signs	Paragraphs 5, 6, 7, 8, 9, and 10		Clearview Sign Lettering		Added Standards, Support, and Options regarding use of the Clearview and Standard FHWA alphabets. Changed the use of Clearview from a Standard to an Option.
	Section 2H.05	Reference Location Signs (D10-1 through D10-3) and Intermediate Reference Location Signs (D10-V1a through D10-V3a)	Paragraphs 1, 5, 6, 9, and 10		Intermediate Reference Location Signs	D10-V1a, D10-V2a, and D10- V3a	Added Standards, Guidance, and Support regarding the use of the Virginia Interstate Intermediate Reference Location Signs (IRLS). The new Virginia IRLS have modified sign panel layouts compared to the Federal MUTCD counterpart intermediate signs.
PART 2: SIGNS	Section 2H.05	Reference Location Signs (D10-1 through D10-3) and Intermediate Reference Location Signs (D10-V1a through D10-V3a)	Figure 2H-3(VA)	Intermediate Reference Location Signs	Intermediate Reference Location Signs	D10-V1a, D10-V2a, and D10- V3a	Modified Figure 2H-3(VA) to show Virginia Interstate Intermediate Reference Location Signs (IRLS). The new Virginia IRLS have modified sign panel layouts compared to the Federal MUTCD counterpart intermediate signs.
	Section 2I.09	Radio Information Signing	Paragraph 12		CALL CELLULAR #77 FOR STATE POLICE sign	D12-V1	Added an Option statement regarding the use of the CALL CELLULAR #77 FOR STATE POLICE sign on non-interstate roadways.
	Section 2M.10	Memorial or Dedication Signing	Table 2M-V1	Cultural Interest Area Sign and	Memorial, Recreational, and Cultural Interest Area Sign and Plaque Sizes	I-V2a row	Added a note at the bottom of the table to clarify the meaning of "one line" versus "two line" for the Named Bridges, Highways, and Highway Segments signs.
	Section 2M.V1	Advance Signing for Historical Markers (I-V11 signs)	Paragraph 1 and 3		Advance Sign for Historical Markers		Added text to a Support statement regarding the VDOT Historical Marker Program. Clarified Guidance regarding the distances used on Advanced Historical Marker signs.
PART 3: MARKINGS	Section 3A.05	Colors	Paragraphs 8 and 9		Black Contrast Markings		Changed a Standard to Guidance for the use of black contrast markings. Revised the content to include more detail on conditions where such markings should be considered.

PART	SECTION NUMBER	SECTION TITLE	NEW TABLE / FIGURE / PARAGRAPH NUMBER	TABLE / FIGURE TITLE	REVISION TOPIC	SIGN CODE	REVISION DESCRIPTION
	Section 3A.06	Functions, Widths, and Patterns of Longitudinal Pavement Markings	Paragraph 5		Skip Pattern for Dotted Lane Lines		Skip pattern for dotted lane lines at interchanges was modified from a Standard to Guidance to match Section 3B.04, Paragraph 19.
	Section 3A.06	Functions, Widths, and Patterns of Longitudinal Pavement Markings	Paragraph 11		Width of Pavement Markings		Added clarification to an Option statement, that any road may be marked with 6-inch markings based on engineering judgment.
PART 3: MARKINGS	Section 3B.01	Yellow Center Line Pavement Markings and Warrants	Paragraphs 9, 10, 11, and 12		Breaks in Center Line Markings		Changed a Standard to Guidance for application of breaks in centerlines. Added information regarding where breaks in center line markings should and should not occur. Added an Option describing when breaks may be omitted.
	Section 3B.01	Yellow Center Line Pavement Markings and Warrants	Paragraph 22		Requirements for Center Line Markings		Added reference to a new Table 3B-V1, which summarizes the requirements, recommendations, and options for the use of center line markings.
	Section 3B.01	Yellow Center Line Pavement Markings and Warrants	Table 3B-V1	Criteria For Placement of Center Line Markings	Requirements for Center Line Markings		Added a new table summarizing the requirements, recommendations, and options for the use of center line markings based on facility types, roadway traffic volumes, and roadway widths.
	Section 3B.04	White Lane Line Pavement Markings and Warrants	Paragraphs 6, 7, 10, 11, 12, 13, 14, 15, 16, 18, 20, 21, and 22		Width of Gore Area Pavement Markings		Replaced multiple references to "wide line" with "8-inch minimum line" for gore area markings. Retained wide line for lane drop conditions.

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PART	NUMBER	SECTION TITLE	PARAGRAPH NUMBER	FIGURE TITLE	REVISION TOPIC	CODE	REVISION DESCRIPTION
	Section 3B.04	_	Figures 3B-8(VA), 3B-9(VA), and 3B-10(VA)	Example of Dotted Line and Channelizing Line Applications for Exit Ramp Markings, Example of Dotted Line and Channelizing Line Applications for Entrance Ramp Markings, and Examples of Applications of Freeway and Expressway Lane- Drop Markings	Width of Gore Area Pavement Markings		Replaced multiple references to "wide line" with "8-inch line" and added a note clarifying that the 8-inch line is a minimum width for gore area markings. Retained the wide line reference for lane drop markings.
PART 3: MARKINGS	Section 3B.05	Other White Longitudinal Pavement	Paragraph 11	- P	Width of Gore Area Pavement Markings		Replaced reference to "wide line" with "8-inch minimum line".
	Section 3B.07	Warrants for Use of Edge Lines	Paragraph 11		Requirements for Edge Line Markings		Added reference to a new Table 3B-V2, which summarizes the requirements, recommendations, and options for use of edge line markings.
	Section 3B.07	Warrants for Use of Edge Lines	Table 3B-V2		Requirements for Edge Line Markings		Added a new table, which summarizes the requirements, recommendations, and options for use of edge line markings based on facility type, roadway traffic volume, and roadway width.
	Section 3B.08		Figure 3B-V1	Typical Markings for Single Lane Structures on Two Lane Roadways without Continuous Road Edge Lines	One Lane Bridge Pavement Markings		Added note to figure referring to Figure 2C-V1 for typical sign placement.
	Section 3B.09	Lane Reduction Transition Markings	Paragraph 11 and 12		Lane Reduction Arrow Pavement Markings		Added applicable Standard and Guidance statements from Section 3B.20 related to lane reduction arrow markings.

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	Section 3B.11	Raised Pavement	Figure 3B-V2	Typical Pavement Marker Layout Details	Snowplowable Raised Pavement Markers	Drawing F	Added a note to clarify that additional SRPMs may be used for a longer distance along the channelizing lines at gore areas if needed.
	Section 3B.13	Raised Pavement Markers Supplementing Other Markings	Paragraph 5		Snowplowable Raised Pavement Markers		Added an Option statement to clarify that additional SRPMs may be used for longer distances along an entire channelizing line at gore areas if needed.
PART 3: MARKINGS	Section 3D.01	Preferential Lane Word and Symbol Markings	Paragraph 6		Preferential Lane Pavement Markings for Bicycle Lanes		Revised the Standard to require the use of the helmeted bicyclist symbol per the requirements stated in Part 9 of the Supplement.
	Section 3D.02	Preferential Lane Longitudinal Markings for	Figure 3D-2(VA)	Markings for Buffer Separated Preferential Lanes	Preferential Lane Pavement Markings		Replaced references to "buffer space" with "space between lines" within the Virginia notes (those in blue), specifically for the situation where two single solid lines are used to show a buffer-separated preferential lane where lane changing is discouraged but not prohibited.
	Section 4C.01	Studies and Factors for Justifying Traffic Control Signals	Paragraph 5		Corridors of Statewide Significance		Added reference to a link for more information about Corridors of Statewide Significance.
	Section 4D.04	Meaning of Vehicular Signal Indications	Paragraphs 5, 6, and 7		Right-Turn on Steady RED ARROW		The recommendation and supporting language for utilizing a "NO TURN ON RED" sign when a right-turn steady RED ARROW is installed was removed from the Supplement due to changes made to the Code of Virginia.
PART 4: SIGNALS	Section 4D.05	, -	Paragraphs 4, 5, and 6 (old paragraph numbers)		Right-Turn on Steady RED ARROW		The recommendation and supporting language for utilizing a "NO TURN ON RED" sign when a right-turn steady RED ARROW is installed was removed from the Supplement due to changes made to the Code of Virginia.
	Section 4D.23	Signal Indications for Protected Only Mode Right-Turn Movements	Paragraph 3, Item A-2		Signal Indication Shielding		Added clarification to a Standard statement, that full tunnel visors alone do not meet the requirement for a signal indication that is not readily visible to drivers in the through lanes. This is specifically written with respect to the RED indication for a separate right-turn signal face and whether a sign is needed.

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PART 4: SIGNALS	Section 4D.23	Signal Indications for Protected Only Mode Right-Turn Movements	Paragraphs 4, 5, and 6		Right-Turn on Steady RED ARROW		The recommendation and supporting language for utilizing a "NO TURN ON RED" sign when a right-turn steady RED ARROW is installed was removed from the Supplement due to changes made to the Code of Virginia.
3.3.0.1	Section 4D.26	Yellow Change and Red Clearance Intervals	Paragraph 8 and 11		Change and Clearance Interval Policy		Corrected paragraph reference and updated references to TE-306 and Northern Region documentation, based on the latest release.
	Section 9B.01	Application and Placement of Signs	Paragraph 4 and Figure 9B-1(VA)	Sign Placement on Shared-Use Paths	Sign Placement on Shared-Use Paths		Updated Standard statement and figure to show that the distance between the edge of path and a post mounted sign shall be 3 feet minimum.
	Section 9B.06	Bicycles May Use Full Lane Sign (R4- 11)	Paragraph 3		Bicycles May Use Full Lane	R4-11	Revised the Standard to include additional conditions for which the Bicycles May Use Full Lane sign shall only be used.
	Section 9B.06	Bicycles May Use Full Lane Sign (R4- 11)	Paragraph 6 and 7		Bicycles May Use Full Lane	R4-11	Added a Guidance statement to include new recommendations for which the Bicycles May Use Full Lane sign should only be used and should not be used.
PART 9: BICYCLES	Section 9C.04	Markings for Bicycle Lanes	Figure 9C-3(VA)	Word, Symbol, and Arrow Pavement Markings for Bicycle Lanes	Bicycle Lane Word Markings	Drawing C	Changed the drawing to now include the "BIKE LANE ENDS" portion, with a note to clarify that pavement marking word legend alone is not permitted, but this section of the drawing is retained to show dimensions and spacing should the legend be used in combination with the pavement marking symbol.
	Section 9C.04	Markings for	Paragraph 11		Bicycle Lane Markings at Right-Turn Trap Lane		Added reference to new Figure 9C-V2, showing bicycle lane markings at a right-turn lane drop.
	Section 9C.04	Markings for Bicycle Lanes	Paragraph 20		Bicycle Lane Marking Placement		Modified recommendations for the distance between bicycle lane pavement line markings and roadway edge.
		Markings for		Word, Symbol, and Arrow Pavement Markings for	Bicycle Lane Marking	Drawing B	Changed label for the solid line to show a 6-inch
	Section 9C.04	Bicycle Lanes	Figure 9C-3(VA)	Bicycle Lanes	Width	and C	white line to mark bike lanes.

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	Section 9C.04	Markings for Bicycle Lanes	Figure 9C-V2	Example of Bicycle Lane Markings at a Right Turn Lane Drop at an Intersection	Bicycle Lane Markings at Right-Turn Trap Lane		Added new figure showing bicycle lane markings at a right-turn lane drop.
PART 9:	Section 9C.07	Shared Lane Marking	Paragraph 1, 3, and 9		Shared Lane Markings		As part of Standard, Guidance, and Option statements, added conditions for which Shared Lane Markings may be used, where they shall not be used, and where they should only be used.
BICYCLES	Section 9C.07	Shared Lane Marking	Paragraph 4		Shared Lane Markings		Added an Option statement allowing the use of Shared Lane Markings in the right most through lane adjacent to an exclusive turn lane in specific circumstances.
	Section 9C.07	Shared Lane Marking	Paragraph 5		Shared Lane Markings		Added Guidance as to what factors should be taken into consideration when determining if Shared Lane Markings should be used.
	Section 9C.07	Shared Lane Marking	Paragraph 6		Shared Lane Markings		Added Guidance regarding placement of Shared Lane Markings in relationship to a parking lane.
APPENDIX	Appendix	How to Obtain Related Documents and Web Resources	Paragraph 1		Related Documents		Added links to Code of Virginia definition of Limited Access Highway, FHWA's Design and Use Policy for the Clearview Alphabet, Virginia Historical Highway Markers (DHR site), and the VDOT 2035 Highway Plan.
	Appendix	How to Obtain Related Documents and Web Resources	Paragraph 1		Related Documents		Updated links to the Virginia Standard Highway Signs book and Work Area Protection Manual.