

**IMPERIAL ROAD DESIGN MANUAL
REVISIONS October, 2014**

CHAPTER 2B

- Page 2B-5 – Revised the following language in the second sentence under “REFINING HORIZONTAL ALIGNMENT from; “*The 2009 General Assembly passed Chapter 120 (HB 2577), which amends the Code of Virginia by adding in Article 15 of Chapter 1 of Title 33.1 a section numbered 33.1-223.2:21, relating to...*”
To; The 2009 General Assembly passed Chapter 120 (HB 2577), which amends the Code of Virginia by adding in Article 15 of Chapter 1 of Title 33.”2” a section numbered 33.”2-276”, relating to

CHAPTER 2D

- Page 2D-24 – Replaced the following language from; **DETERMINING PROJECT LIMITS**
Beginning and ending points of projects are generally determined by the first and last full width points of construction. Temporary construction beyond these points is to be flagged showing beginning and end construction and applicable stations. Any deviation from the sketch in Figure 2D – 6 (there may be many) should be discussed at the Preliminary Field Inspection.
DETERMINING RIGHT OF WAY AND UTILITY LIMITS
Proposed Right of Way Lines and Easements (Permanent and Temporary) should be projected, whenever practical, to allow for any anticipated future construction. Right of Way and Easement should also be projected to any property line within a reasonable distance. This should minimize the need for negotiations with the same property owner on a future project. The Right of Way Project Limits should encompass all proposed, and projected, Right of Way and Easement on the project. To;

SHOWING PROJECT TERMINI ON PLANS

When determining the extents for placing project number flags on the title sheet and appropriate plan and profile sheets several circumstances must be considered.

The PE project number shall be placed at the outermost locations at which any preliminary engineering has to be performed to complete the design, whether that is drainage, roadway, utilities, incidental items, pavement, signals, markings etc, and should coincide with the “Begin Construction” designation.

The Right of Way Project Limits should encompass all proposed, and projected, right of way and easements on the project. The RW project number shall reflect the limit of required right of way or easement delineation on the project. Proposed right of way lines and permanent easements should be projected, whenever practical, to allow for any anticipated future construction. Right of way and permanent easements should also be projected to any property line within a reasonable distance. This should minimize the need for negotiations with the same property owner on a future project. On projects where all construction is within existing Right of Way, a RW project number may not be needed.

The beginning and ending points of projects (C or M) are generally determined by the first and last full width template of construction. Temporary construction beyond these points is to be flagged showing “Begin Construction”, “End” “Construction” and applicable stations. The transition area is the distance on the project from “Begin Construction” to the first full width and last full width template to “End Construction”, where required. There are no Design Exception or Waivers required in transition areas see IIM-LD-227. Any deviation from the sketch in Figure 2D – 6 (there may be many) should be discussed at the Preliminary Field Inspection.

The project description (From: and To:) on the Title sheet located under the County/City name shall be as set forth by the Project Sponsor in Project Pool and should, in most cases, reflect the outermost limits of the proposed work. Should project limits change during the development of a project, documentation should be sent to the Project Manager to inform them of the change and the revised limits should be updated in Project Pool.

- Page 2D-25 – Revised Figure 2D-6 – SETTING PROJECT TERMINI to agree with language on page 2D-24.

CHAPTER 2E

- Page 2E-48 – Revised the following language in the second paragraph under “Background” from; “Section 33.1.58 provides the Commonwealth Transportation Board (CTB) with the power and authority to designate and regulate the use of limited access (L/A) highways.” To; Section 33.”2-401” provides the Commonwealth Transportation Board (CTB) with the power and authority to designate and regulate the use of limited access (L/A) highways.

APPENDIX “A”

- Page A-2 – Revised the following language in the first sentence under SECONDARY PROJECT IMPROVEMENT” from; “The Special Session II of the 2008 General Assembly passed HB 6016, which amended and reenacted §33.1-69 of the Code of Virginia...” To; The Special Session II of the 2008 General Assembly passed HB 6016, which amended and reenacted §33.”2-326” of the Code of Virginia...

- Page A-15 – Revised the following language in the ninth paragraph under “GENERAL NOTES” from; “*For minimum widths for roadway and right of way used within incorporated cities or towns to qualify for maintenance funds see Code of Virginia Section 33.1-41.1.*” To; For minimum widths for roadway and right of way used within incorporated cities or towns to qualify for maintenance funds see Code of Virginia Section 33.”2-319”.
- Page A-16 – Revised the following language in the seventh paragraph under “GENERAL NOTES” from; “*For minimum widths for roadway and right of way used within incorporated cities or towns to qualify for maintenance funds see Code of Virginia Section 33.1-41.1.*” To; For minimum widths for roadway and right of way used within incorporated cities or towns to qualify for maintenance funds see Code of Virginia Section 33.”2-319”.
- Page A-17 – Revised the following language in the fifth paragraph under “GENERAL NOTES” from; “*For minimum widths for roadway and right of way used within incorporated cities or towns to qualify for maintenance funds see Code of Virginia Section 33.1-41.1.*” To; For minimum widths for roadway and right of way used within incorporated cities or towns to qualify for maintenance funds see Code of Virginia Section 33.”2-319”.
- Page A-18 – Revised the following language in the sixth paragraph under “GENERAL NOTES” from; “*For minimum widths for roadway and right of way used within incorporated cities or towns to qualify for maintenance funds see Code of Virginia Section 33.1-41.1.*” To; For minimum widths for roadway and right of way used within incorporated cities or towns to qualify for maintenance funds see Code of Virginia Section 33.”2-319”.
- Page A-129 – Revised the following language in the third sentence of the third paragraph under “GENERAL CONCEPTS” from; “*If the anticipated acquisition value is greater than \$5,000 per parcel or eminent domain will be required to acquire property, the information outlined in the Code of Virginia §33.1-89 (see below)...*” To; If the anticipated acquisition value is greater than \$5,000 per parcel or eminent domain will be required to acquire property, the information outlined in the Code of Virginia §33.”2-1001” (see below)...
- Page A-130 – Revised the following language in the last sentence of the second paragraph and the first sentence of the next paragraph under “PUBLIC HEARING AND RIGHT OF WAY” from; “*If the anticipated acquisition value is greater than \$5,000 per parcel or eminent domain is required the information as outlined in the Code of Virginia §33.1-89 (see below) shall be...*” To; If the anticipated acquisition value is greater than \$5,000 per parcel or eminent domain is required the information as outlined in the Code of Virginia §33.”2-1001” (see below) shall be...

- Page A-131 – Revised the following language in the first sentence of the fourth paragraph from; “*Section 33.1-70.1, Code of Virginia permits consideration for hard surfacing of a secondary road on less than a 40-foot right of way.*” To; Section 33.”2-332”, Code of Virginia permits consideration for hard surfacing of a secondary road on less than a 40-foot right of way.

APPENDIX “B(2)”

- Page B(2)-1 – Replace the following language in the first sentence of the first paragraph under “INTRODUCTION” from: “*The Virginia Department of Transportation’s (VDOT) Road Design Manual Appendix B(2) on Multimodal Design Standards for Mixed-Use Urban Centers has been developed in accordance with Chapter 498 (<http://leg1.state.va.us/cgi-bin/legp504.exe?000+cod+33.1-69.001>) of the 2010 Acts of Assembly, which amended the Code of Virginia by adding 33. 1-69.001...*” To; The Virginia Department of Transportation’s (VDOT) Road Design Manual Appendix B(2) on Multimodal Design Standards for Mixed-Use Urban Centers has been developed in accordance with Chapter 498 (<http://leg1.state.va.us/cgi-bin/legp504.exe?000+cod+33.”2-327”>) of the 2010 Acts of Assembly, which amended the Code of Virginia by adding 33.”2-327”...

APPENDIX “F”

- Page F-23 – Replaced the following language to “Note A.” under Table 2-2 from; “**Intersection** – *The intersection spacing applies when two full access entrances are directly across from each other on an undivided highway.*” To; **Definitions** – See the *Definitions* section for explanations of terms used in Table 2-2.
- Page F-45 – Added the following language under “Roundabouts” Design/Resources; For Roundabout Consideration & Alternative Selection Guidance Tool, see Roundabouts in Virginia web page @ <http://www.virginiadot.org/info/faq-roundabouts.asp>.
- Page F-68 – Added the following language; **Alternative Intersection Design Guides**

Displaced Left-Turn Intersection – (Also known as Continuous Flow Intersection (CFI), Crossover Displaced Left-Turn Intersection)

Median U-Turn Intersection – (Also Known as Median U-Turn Crossover, Boulevard Turnaround, Michigan Loon and ThrU-Turn Intersection)

Restricted Crossing U-Turn Intersection (Also known as Superstreet Intersection, J-Turn Intersection and Synchronized Street Intersection)

Diverging Diamond Interchange (Also known as Double Crossover Diamond (DCD))

http://www.virginiadot.org/info/alternative_intersection_informational_design_guides.asp

- Page F-120 – Revised the language in the last sentence on this page from; “*Source: Code of Virginia, 15.2-2265 and 33.1-61*” To; Source: Code of Virginia, 15.2-2265 and 33.”2-404”
- Page F-121 – Revised the language in the first sentence on this page from; “*Title 33.1-89 of the Code of Virginia, as amended...*” To; Title 33.”2-1001” of the Code of Virginia...

Revised the language in the first sentence in the last paragraph from; *Title 33.1-199 of the Code of Virginia...* To; Title 33.”2-242” of the Code of Virginia...