

REVISIONS INDEX
2016 ROAD & BRIDGE STANDARDS

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COMMONWEALTH of VIRGINIA

DEPARTMENT OF TRANSPORTATION

Stephen C. Brich, P.E.
Commissioner

1401 East Broad Street
Richmond, Virginia 23219

(804) 786-2701
Fax: (804) 786-2940

May 13, 2020

MEMORANDUM

To: All Users of the Virginia Department of Transportation's Road and Bridge Standards

The Location & Design Division has issued a revision to 2016 edition of the Road and Bridge Standards. The standards are accessible via the 2016 Road and Bridge Standards website shown below:

http://www.virginiadot.org/business/locdes/vdot_road_and_bridge_standards.asp

The new and revised standards are required for projects with the following advertisement dates and all subsequent advertisements: Tier 1 projects September 8, 2020, Tier 2 projects December 8, 2020. These standards may be used prior to the required date on any project. Insertable sheets are not required in the plan assemblies for the revised or new standards.

Summarized below are the changes made.

Section 100:

- | | |
|--------|---|
| 101.32 | CLARIFIED UNDERDRAIN MARKER DETAILS TO INCLUDE THE REQUIRED LETTERING FOR CD & UD
UPDATED ASSOCIATED NOTES FOR POST MATERIALS. |
| 104.37 | CLARIFIED THE REQUIREMENT FOR TWO PIECE COUPLING BANDS AND 2 ANCHORS REQUIRED AT EACH COUPLING. |
| 105.01 | REVISED NUMBER OF SHEETS TO 1 OF 1. |
| 105.02 | SHEET IN STANDARDS VOID APRIL 2020. |
| 105.03 | SHEET IN STANDARDS VOID APRIL 2020. |
| 106.01 | REVISED NUMBER OF SHEETS TO 1 OF 3. |

- 106.02 REVISED NUMBER OF SHEETS TO 2 OF 3.
ADDED NOTE STATING FRAME & COVER
RATED FOR TRAFFIC CONDITIONS.
- 106.03 SHEET IN STANDARDS VOID APRIL 2020.
- 106.04 REVISED NUMBER OF SHEETS TO 3 OF 3.
ADDED NOTE STATING FRAME & COVER
RATED FOR TRAFFIC CONDITIONS. REMOVED
TYPE "A" AND TYPE "B" COVER DESIGNATIONS.
- 106.05 SHEET IN STANDARDS VOID APRIL 2020.
- 106.06 ADDED NOTE STATING FRAME & COVER
RATED FOR TRAFFIC CONDITIONS.
- 113.07 REVISED NOTE 10 TO ONLY REFERENCE THE MATERIALS
APPROVED LIST # 63.

Section 500:

- 501.23 CLARIFIED MISSING LINES IN 5/8" BASE PLATE DETAIL.
- 509.01 NEW STANDARD TCB-1 TEMPORARY CONCRETE BARRIER,
MASH FREESTANDING PRECAST PIN & LOOP FOR
TEMPORARY USE.
- 509.02 NEW STANDARD TCB-1 TEMPORARY CONCRETE BARRIER,
MASH FREESTANDING PRECAST PIN & LOOP FOR
TEMPORARY USE.
- 509.03 NEW STANDARD TCB-1 TEMPORARY CONCRETE BARRIER,
MASH FREESTANDING PRECAST PIN & LOOP FOR
TEMPORARY USE.

If you have any questions or comments regarding the 2016 Road & Bridge Standards, please contact Charles Patterson, P.E., at (804) 786-1805, of the Standards and Special Design Section.

Sincerely,

Signature on file Date: 05/13/20

Susan H. Keen, P.E.
State Location & Design Engineer



COMMONWEALTH of VIRGINIA

DEPARTMENT OF TRANSPORTATION
1401 EAST BROAD STREET
RICHMOND, VIRGINIA 23219 2000

Stephen Brich
Commissioner

October 30, 2019

MEMORANDUM

To: All Users of the Virginia Department of Transportation's Road and Bridge Standards

The Location & Design Division has issued a revision to 2016 edition of the Road and Bridge Standards. The standards are accessible via the 2016 Road and Bridge Standards website shown below:

http://www.virginiadot.org/business/locdes/vdot_road_and_bridge_standards.asp

The new and revised standards may be used for all projects starting October 30, 2019 and are required for all projects advertised on or after January 1, 2020. Insertable sheets are not required in the plan assemblies for the new standard.

Summarized below are the changes made.

Section 1300:

1330.80 - 1330.82	Revised PM-8 for new inlaid pavement marker
1330.90	Revised dimension in note 1 from 6" to 7"

If you have any questions or comments regarding the 2016 Road & Bridge Standards, please contact Charles Patterson, P.E., at (804) 786-1805, of the Standards and Special Design Section.

Sincerely,

Signature on File Date: 10/31/19

Susan H. Keen, P.E.
State Location & Design Engineer



COMMONWEALTH of VIRGINIA

DEPARTMENT OF TRANSPORTATION
1401 EAST BROAD STREET
RICHMOND, VIRGINIA 23219 2000

Stephen Brich
Commissioner

September 9, 2019

MEMORANDUM

To: All Users of the Virginia Department of Transportation's Road and Bridge Standards

The Location & Design Division has issued a revision to 2016 edition of the Road and Bridge Standards. The standards are accessible via the 2016 Road and Bridge Standards website shown below:

http://www.virginiadot.org/business/locdes/vdot_road_and_bridge_standards.asp

The new standard may be used for all projects starting September 9, 2019. Insertable sheets are not required in the plan assemblies for the new standard.

Summarized below are the changes made.

Section 1300:

1321.40 - 1321.51 NEW STP-2 FOUR INCH SQUARE TUBE SIGN POST
STANDARD DRAWINGS

If you have any questions or comments regarding the 2016 Road & Bridge Standards, please contact Charles Patterson, P.E., at (804) 786-1805, of the Standards and Special Design Section.

Sincerely,

Signature on file _____

Date: 9/9/19

Susan H. Keen, P.E.
State Location & Design Engineer



COMMONWEALTH of VIRGINIA

DEPARTMENT OF TRANSPORTATION
1401 EAST BROAD STREET
RICHMOND, VIRGINIA 23219 2000

Stephen Brich
Commissioner

July 11, 2019

MEMORANDUM

To: All Users of the Virginia Department of Transportation's Road and Bridge Standards

The Location & Design Division has issued a revision to 2016 edition of the Road and Bridge Standards. The standards are accessible via the 2016 Road and Bridge Standards website shown below:

http://www.virginiadot.org/business/locdes/vdot_road_and_bridge_standards.asp

The revised standard may be used for all projects starting July 11, 2019. Insertable sheets are not required in the plan assemblies for the revised standard.

Summarized below are the changes made.

Section 100:

107.01 REVISED BACKFILL MATERIAL REQUIREMENTS FOR
PLASTIC PIPE.

If you have any questions or comments regarding the 2016 Road & Bridge Standards, please contact Charles Patterson, P.E., at (804) 786-1805, of the Standards and Special Design Section.

Sincerely,

Signature on file Date: 7/11/19

Susan H. Keen, P.E.
State Location & Design Engineer



COMMONWEALTH of VIRGINIA

DEPARTMENT OF TRANSPORTATION
1401 EAST BROAD STREET
RICHMOND, VIRGINIA 23219 2000

Stephen Brich
Commissioner

MAY 16, 2019

MEMORANDUM

To: All Users of the Virginia Department of Transportation's Road and Bridge Standards

The Location & Design Division has issued a revision to 2016 edition of the Road and Bridge Standards. The standards are accessible via the 2016 Road and Bridge Standards website shown below:

http://www.virginiadot.org/business/locdes/vdot_road_and_bridge_standards.asp

The new and revised standards are required for projects with the following advertisement dates and all subsequent advertisements: Tier 1 projects September 10, 2019, Tier 2 projects December 10, 2019. These standards may be used prior to the required date on any project. Insertable sheets are not required in the plan assemblies for the revised or new standards.

Summarized below are the changes made.

Section 100:

- | | |
|--------|---|
| 101.01 | CORRECTED "D" DIMENSION LOCATION IN SECTION VEIW. |
| 102.03 | REVISED NOTE 7 TO REMOVE PLASTIC END SECTION. |
| 104.15 | CLARIFIED (MIN. D + 26") DIMENSION IN SECTION A-A. |
| 104.37 | REVISED NOTES, CORRECTED ROD DIAMETER ON ANCHOR GUY SCREWS. UPDATED METHOD I AND II DRAWINGS. CLARIFIED METHOD I AND II NOTES AND REQUIREMENTS. |
| 107.11 | CORRECTED TEXT IN TABLE FROM "MINIMUM" TO "MAXIMUM" |

- 107.19 REMOVED NOTES 5 AND 6 AND RENUMBERED NOTES.
REVISED PE PIPE TABLE TO SHOW MAX. HEIGHT OF COVER
FOR TYPE C AND TYPE S PIPES. REVISED PP PIPE TABLE TO
SHOW MAX. HEIGHT OF COVER FOR TYPE S AND TYPE D PIPES.
- 107.23 REVISED FIRST NOTE TO REMOVE FINE AGGREGATE AND
ADDED SPECIFICATION REFERENCE FOR FLOWABLE
BACKFILL.
- 113.06 REMOVED NOTES 4 AND 5, RENUMBERED NOTES.
- 113.07 ELIMINATED WIRE BACKING FROM SILT FENCE STANDARD,
REDEFINED TYPE 1 & 2 SILT FENCE REQUIREMENTS,
REDUCED POST SPACING FROM 6' TO 4' MAX.
- 113.08 CHANGED TITLE OF SHEET.
- 113.09 REVISED TYPE A INLET PROTECTION USING SILT FENCE,
ADDED DETAILS FOR USING SEDIMENT RETENTION ROLLS
AS TYPE A INLET PROTECTION, REVISED ALL NOTES.
- 113.10 MOVED TYPE B INLET PROTECTION TO THIS PAGE, ADDED
DETAILS FOR USING SEDIMENT RETENTION ROLLS AS
TYPE B INLET PROTECTION, REVISED NOTES.
- 113.10A CHANGED PAGE NUMBER FOR TYPE C INLET PROTECTION.
- 113.20 NEW STANDARD FOR TEMPORARY CHECK DAMS.

Section 200:

- 204.01 CHANGED PAGE NUMBER TO 204 SERIES, REVISED ALL
NOTES.
- 204.02 CHANGED PAGE NUMBER TO 204 SERIES, ADJUSTED EXAMPLE
INSTALLATION METHODS, REMOVED DIAGONAL
INSTALLATION OPTION, ADDED NOTES FOR GUTTER PAN
SLOPE AND TRANSITIONS.
- 204.03 CHANGED PAGE NUMBER TO 204 SERIES, ADJUSTED EXAMPLE
INSTALLATION METHODS, REMOVED DIAGONAL
INSTALLATION OPTION, ADDED NOTES FOR GUTTER PAN
SLOPE AND TRANSITIONS.

204.04 CHANGED PAGE NUMBER TO 204 SERIES, ADJUSTED EXAMPLE INSTALLATION METHODS, REMOVED DIAGONAL INSTALLATION OPTION, ADDED NOTES FOR GUTTER PAN SLOPE AND TRANSITIONS.

204.05 CHANGED PAGE NUMBER TO 204 SERIES

204.06 NEW INS STANDARD SHOWING DETECTABLE WARNING INSTALLATION METHODS.

204.07 NEW INS STANDARD SHOWING DETECTABLE WARNING INSTALLATION METHODS.

Section 500:

507.05 NEW INS STANDARD FOR MGS GUARDRAIL FOR INSTALLING POSTS IN MOW STRIPS AND ROCK.

508.01 NEW STANDARD FIXED OBJECT ATTACHMENT FOR MGS GUARDRAIL TO CPSR, SSCP, AND KANSAS CORRAL VERTICAL FACE TERMINAL WALLS.

508.02 NEW STANDARD FIXED OBJECT ATTACHMENT FOR MGS GUARDRAIL TO CPSR, SSCP, AND KANSAS CORRAL VERTICAL FACE TERMINAL WALLS.

Section 600:

601.07 STANDARD SETTLEMENT PLATE UPDATED AND REDESIGNED.

Section 1300:

1324.10 ADDED ST'D PA-3 BACK INTO THE ROAD & BRIDGE STANDARDS. STANDARD PA-4 MOVED TO SHEET 1307.12. ST'D PA-3 MODIFIED FROM VERSION IN 2008 ROAD & BRIDGE STANDARDS TO SHOW APS UNITS, WITH UPDATED MIN AND MAX MOUNTING HEIGHT.

1324.11 NEW SHEET WITH STANDARD PA-4. LENGTH OF PEDESTAL SHORTENED FROM 6'0" TO 5'0". ALLOW OUTSIDE DIAMETER TO BE 4.0" INSTEAD OF 4.5". FOUNDATION WIDTH SHRUNK

- 1330.10 INCREASED WIDTH OF DOTTED LINES FROM 6" TO 8", AND INCREASED WIDTH OF GORE LINES FROM 8" TO 12". CHANGED LENGTH OF SOLID WHITE LINES IMMEDIATELY ADJACENT TO THEORETICAL GORE FROM "100FT MIN" TO "100FT". 12" GORE LINES NOW EXTEND 50' (NOT 150') BEYOND THE PHYSICAL GORE. START OF THE DOTTED LINE FOR THE DECEL LANE SHALL BE MAXIMUM OF 40' FROM START OF TAPER.
- 1330.20 SIMILAR CHANGES AS THOSE MADE TO STANDARD PM-1. ADDED GRAPHICAL DEPICTION OF PAVED SHOULDERS. CORRECTED "THEORETICAL GORE" CALLOUT FOR TOP DRAWING.
- 1330.30 PATTERN FOR DOTTED LINES ("PUPPY TRACKS") CHANGED FROM 2³/₄' TO 2⁵/₆'. ADDED DEPICTION OF OPTIONAL EDGE LINE EXTENSION.
- 1330.31 PATTERN FOR DOTTED LINES ("PUPPY TRACKS") CHANGED FROM 2³/₄' TO 2⁵/₆'.
- 1330.32 DELETED REQUIREMENT FOR 40' MINIMUM SEPARATION BETWEEN DOTTED LINE EXTENSIONS FOR OPPOSING DUAL LEFT TURN LANES.
- 1330.50 DELETED DETAIL FOR "NEUTRAL ZONE" BETWEEN BACK-TO-BACK LEFT TURN LANES. PATTERN FOR DOTTED LINES ("PUPPY TRACKS") CHANGED FROM 2³/₄' TO 2⁵/₆'.
- 1330.51 MADE TYPE B DETAIL, NOT TYPE A DETAIL, THE "PREFERRED" OPTION, AND DELETED OLD NOTE 6. FOR THE TYPE B DETAIL, INCREASED THE LENGTH OF THE DOTTED LINE FROM 25' TO 50'. INCREASED TYPICAL SPACING BETWEEN OPPOSING TWLTL ARROWS FROM 300' TO 1000'. PATTERN FOR DOTTED LINES ("PUPPY TRACKS") CHANGED FROM 2³/₄' TO 2⁵/₆'.
- 1330.60 MOST BIKE LANES WILL NOW BE MARKED WITH JUST THE HELMETED BICYCLIST SYMBOL (NO ARROW), WITH EXCEPTIONS OUTLINED IN NOTE 6. NOTE 3 REVISED TO ALLOW FOR FLEXIBILITY IN SPACING BETWEEN SUCCESSIVE BIKE LANE SYMBOLS. PATTERN FOR DOTTED LINES ("PUPPY TRACKS") CHANGED FROM 2³/₄' TO 2⁵/₆'.
- 1330.61 LEFT-HAND DETAIL REVISED TO GRAPHICALLY DEPICT BIKE LANES WITH HELMETED BICYCLIST SYMBOL ALONE (NO BICYCLIST THRU ARROW). NOTE 3 REVISED TO ALLOW FOR 1000' (NOT 300') SPACING BETWEEN SHARED LANE SYMBOLS. PATTERN FOR DOTTED LINES ("PUPPY TRACKS") CHANGED FROM 2³/₄' TO 2⁵/₆'.

- 1330.70 EDGE LINES SHALL EXTEND TO WITHIN 2' OF OUTER RAIL, EXCEPT FOR HUMPED XINGS.
- 1330.80 REVISED NOTE 2 TO CLARIFY THAT 40' SPACING SHALL BE USED WHEN CURVE ADVISORY SPEED IS AT LEAST 10 MPH BELOW THE POSTED/STATUTORY SPEED LIMIT; PREVIOUS RULE REQUIRED 40' SPACING IF DEGREE OF CURVATURE WAS $\geq 3^{\circ}$.
- 1330.81 DELETED OLD TYPE D, E, F, H, I, AND J DETAILS. CLARIFIED THAT NEW TYPE E DETAIL (WITH "DOUBLED-UP" MARKERS) SHALL ONLY BE USED WHEN DIRECTED BY THE ENGINEER OR CONTRACT DOCUMENTS. CLARIFIED IN KEY THAT ONE-WAY MARKERS SHALL HAVE RED RETROREFLECTORS ON THE BACK SIDE.
- 1340.19 MADE BLUE BACKGROUND AND WHITE OUTLINE FOR ACCESSIBILTY (HANDICAPPED) SYMBOL OPTIONAL, NOT MANDATORY.

If you have any questions or comments regarding the 2016 Road & Bridge Standards, please contact Charles Patterson, P.E., at (804) 786-1805, of the Standards and Special Design Section.

Sincerely,

Signature on file Date: 5/16/19

Susan H. Keen, P.E.
State Location & Design Engineer



COMMONWEALTH of VIRGINIA

DEPARTMENT OF TRANSPORTATION
1401 EAST BROAD STREET
RICHMOND, VIRGINIA 23219 2000

Stephen Brich
Commissioner

December 12, 2018

MEMORANDUM

To: All Users of the Virginia Department of Transportation's Road and Bridge Standards

The Location & Design Division has issued a revision to 2016 edition of the Road and Bridge Standards. The standards are accessible via the 2016 Road and Bridge Standards website shown below:

http://www.virginiadot.org/business/locdes/vdot_road_and_bridge_standards.asp

The revised standards are required for all projects advertised after December 2018. Insertable sheets are not required in the plan assemblies for the revised standards. Summarized below are the changes made within each section.

Section 500:

The Impact Attenuator Standard Drawings pages 505.01 through 505.11 have been revised to require that the attenuator has successfully passed the MASH 2016 testing. All impact attenuators for permanent installation shall be selected from VDOT's Provisionally Approved Mash List.

<http://www.virginiadot.org/business/locdes/nchrp350-index.asp>

If you have any questions or comments regarding the 2016 Road & Bridge Standards, please contact Charles Patterson, P.E., at (804) 786-1805, of the Standards and Special Design Section.

Signature on File

Date: 12/12/18

Susan H. Keen, P.E.
State Location & Design Engineer



COMMONWEALTH of VIRGINIA

DEPARTMENT OF TRANSPORTATION
1401 EAST BROAD STREET
RICHMOND, VIRGINIA 23219 2000

Stephen Brich
Commissioner

October 10, 2018

MEMORANDUM

To: All Users of the Virginia Department of Transportation's Road and Bridge Standards

The Location & Design Division has issued a revision to 2016 edition of the Road and Bridge Standards. The standards are accessible via the 2016 Road and Bridge Standards website shown below:

http://www.virginiadot.org/business/locdes/vdot_road_and_bridge_standards.asp

The new and revised standards are required for projects with the following advertisement dates and all subsequent advertisements: Tier 1 projects January 22, 2019, Tier 2 projects May 7, 2019. These standards may be used prior to the required date on any project. Insertable sheets are not required in the plan assemblies for the revised or new standards.

Summarized below are the changes made.

Section 1300:

- | | |
|---------|---|
| 1302.24 | DELETED PREVIOUS NOTE 11. ADDED NEW NOTE 11 ELIMINATING HANDHOLES AT THE TOP OF THE POLE UNLESS THE POLE IS A COMBINATION POLE (POLE WITH BOTH MAST AND LUMINAIRE ARMS). |
| 1302.31 | TOP OF CONCRETE FOUNDATION IS ALLOWED TO BE INCLUDED WITHIN 5' MINIMUM WIDTH OF SIDEWALK/PEDESTRIAN PATH IF IT IS FLUSH WITH AND AT THE SAME GRADE AS THE SIDEWALK/PATH. CLARIFIED WIDTH IS MEASURED TO EDGE OF TRANSFORMER BASE. |
| 1307.10 | CHANGED "PEDESTRIAN PUSH BUTTON" REFERENCE TO "ACCESSIBLE PEDESTRIAN SIGNAL (APS) UNIT". CHANGED MIN. AND MAX. MOUNTING HEIGHTS FOR BUTTONS. |

- 1307.11 ADDED ST'D PA-3 BACK INTO THE ROAD & BRIDGE STANDARDS. STANDARD PA-4 MOVED TO SHEET 1307.12. ST'D PA-3 MODIFIED FROM VERSION IN 2008 ROAD & BRIDGE STANDARDS TO SHOW APS UNITS, WITH UPDATED MIN AND MAX MOUNTING HEIGHT.
- 1307.12 NEW SHEET WITH STANDARD PA-4. LENGTH OF PEDESTAL SHORTENED FROM 6'0" TO 5'0". ALLOW OUTSIDE DIAMETER TO BE 4.0" INSTEAD OF 4.5". FOUNDATION WIDTH SHRUNK FROM 24" TO 18". ALLOW PREAPPROVED BAG MIX TO BE USED INSTEAD OF CLASS A3 CONCRETE. CHANGED "PEDESTRIAN PUSH BUTTON" REFERENCE TO "ACCESSIBLE PEDESTRIAN SIGNAL (APS) UNIT". PEDESTAL TUBE ALLOWED TO BE SCHEDULE 40 INSTEAD OF SCHEDULE 80 ELIMINATED REFERENCES TO USE OF STAINLESS STEEL BANDS FOR ATTACHING BUTTON AND SIGNS TO POLES. CHANGED MIN AND MAX MOUNTING HEIGHTS FOR BUTTONS.
- 1311.10 ADDED VIBRATION DAMPENERS.
- 1318.10 REVISED LOCATOR TAPE REQUIREMENTS IN NOTE 1 CLARIFIED DEPTH DIMENSIONS TO TOP OF CONDUIT IN ALL SECTION VEIWS
- 1321.40 – 1321.49 NEW FOUR INCH SQUARE TUBE SIGN POST STANDARD
- 1324.10 ADDED REFERENCE TO NOTE 13 FOR POLE-MOUNTED CABINET AND CCTV CAMERA CALLOUTS
- 1324.11 SIGNIFICANT REVISIONS TO VERTICAL CLEARANCE REQUIREMENTS IN NOTE #5. ADDED NOTE 13.
- 1324.12 OSS-1 STANDARDS EXPANDED TO 7 SHEETS
- 1324.13 OSS-1 STANDARDS EXPANDED TO 7 SHEETS
- 1324.14 REVISE DISTANCE BETWEEN SAFETY SWITCH AND CONTACTOR FROM 24" MAX TO 6" MAX. ADDED NOTES BENEATH PE CONTROL AND CONTACTOR CALLOUTS.
- 1324.15 SHEETS 6 AND 7 OF 7 REORGANIZED SO THAT ALL SIGN HANGER DETAILS ARE ON SHEET 6 AND ALL SIGN LIGHTING DETAILS ARE ON SHEET 7. ELIMINATED REQUIREMENT TO TILT THE SIGN FACE 3 DEGREES DOWNWARD. ADDED NOTES REFERENCING WHERE ISOLATION MATERIALS BETWEEN DISSIMILAR METALS ARE REQUIRED.

- 1324.16 SHEETS 6 AND 7 OF 7 REORGANIZED SO THAT ALL SIGN HANGER DETAILS ARE ON SHEET 6 AND ALL SIGN LIGHTING DETAILS ARE ON SHEET 7. EMPHASIZED THAT LUMINAIRE RETRIEVAL SYSTEMS SHALL ONLY BE INSTALLED WHERE REQUIRED ON THE PLANS. ELIMINATED REFERENCES TO PROPRIETARY "LUMI-TRAK" SYSTEM. ADDED DETAILS FOR INSTALLATION OF LUMINAIRES WITHOUT A RETRIEVAL SYSTEM. ELIMINATED THE REQUIREMENT TO INSTALL HORIZONTAL LUMINAIRE ARMS FOR STRUCTURES THAT WILL NOT BE ILLUMINATED. CLARIFIED THAT HORIZONTAL ARMS ARE "LUMINAIRE", NOT "SIGN", HANGER ARMS TO DISTINGUISH THEM FROM THE (VERTICAL) SIGN HANGERS.
- 1325.10 CHANGED DISTANCE BETWEEN VERTICAL SPLICES FROM 2' MIN. 5' MAX, TO 4' MIN.
- 1325.11 ADDED ASTERISKED NOTE CLARIFYING WHERE DIMENSIONS "c" AND "d" ARE MEASURED TO.

If you have any questions or comments regarding the 2016 Road & Bridge Standards, please contact Charles Patterson, P.E., at (804) 786-1805, of the Standards and Special Design Section.

Sincerely,

Signature on file Date: 10/10/2018

Susan H. Keen, P.E.
State Location & Design Engineer



COMMONWEALTH of VIRGINIA

DEPARTMENT OF TRANSPORTATION
1401 EAST BROAD STREET
RICHMOND, VIRGINIA 23219 2000

Charles A. Kilpatrick, P.E.
Commissioner

September 26, 2017

MEMORANDUM

To: All Users of the Virginia Department of Transportation's Road and Bridge Standards

The Location & Design Division has issued a revision to 2016 edition of the Road and Bridge Standards. The standards are accessible via the 2016 Road and Bridge Standards website shown below:

http://www.virginiadot.org/business/locdes/vdot_road_and_bridge_standards.asp

The new and revised standards are required for projects with the following advertisement dates and all subsequent advertisements: Tier 1 projects December 26, 2017, Tier 2 projects April 10, 2018. These standards may be used prior to the required date on any project. Insertable sheets are not required in the plan assemblies for the revised or new standards.

Summarized below are the changes made within each section.

Section 500:

- 506.06 REVISED THE STARTING LOCATION OF A GR-MGS4 TO THE SAME LOCATION AS THE GR-MGS1.
- 506.07 REVISED THE BEGINNING OF THE 50' DIMENSION FOR THE TERMINAL TO THE CENTER OF THE FIRST POST.
- 506.08 REVISED THE BEGINNING OF THE 50' DIMENSION FOR THE TERMINAL TO THE CENTER OF THE FIRST POST.
- 506.11 REVISED THE STARTING LOCATION OF A GR-MGS2 TO THE SAME LOCATION AS THE GR-MGS1. REVISED NOTES TO CLARIFY W-BEAM SECTIONS USED IN THE HEIGHT TRANSITION. ADDED NOTE CLARIFYING BLOCKOUT SIZES USED WITH TERMINALS.

506.08 ADDED DETAIL FOR TRANSITION FROM GR-MGS1
 TO WEAK POST GUARDRAIL.

If you have any questions or comments regarding the 2016 Road & Bridge Standards, please contact Charles Patterson, P.E., at (804) 786-1805, of the Standards and Special Design Section.

Sincerely,

_____ Signature on file Date: _____ 9/26/17

Susan H. Keen, P.E.
State Location & Design Engineer



COMMONWEALTH of VIRGINIA

DEPARTMENT OF TRANSPORTATION
1401 EAST BROAD STREET
RICHMOND, VIRGINIA 23219 2000

Charles A. Kilpatrick, P.E.
Commissioner

August 31, 2017

MEMORANDUM

To: All Users of the Virginia Department of Transportation's Road and Bridge Standards

The Location & Design Division has issued a revision to 2016 edition of the Road and Bridge Standards. The standards are accessible via the 2016 Road and Bridge Standards website shown below:

http://www.virginiadot.org/business/locdes/vdot_road_and_bridge_standards.asp

The new and revised standards are required for projects with the following advertisement dates and all subsequent advertisements: Tier 1 projects December 26, 2017, Tier 2 projects April 10, 2018. These standards may be used prior to the required date on any project. Insertable sheets are not required in the plan assemblies for the revised or new standards.

Summarized below are the changes made within each section.

Section 100:

- | | |
|--------|--|
| 103.11 | B-1, B-2 ADJUSTED DIMENSIONS TABLE TO INCLUDE 108", 120", 126", AND 144" PRECAST BASE UNITS. |
| 113.19 | EC-15 REVISED NOTES 2 & 3. |

Section 200:

- | | |
|--------|---|
| 201.07 | MC-3B REMOVED REFERENCES TO SPECIFIC GUARDRAIL TYPES AND ADDED NOTE 6. |
| 201.08 | MC-4 REMOVED REFERENCES TO SPECIFIC GUARDRAIL TYPES, ADDED EXPANDED DETAILS FOR PAVING UNDER DIFFERENT TERMINALS, REVISED ALLOWABLE DEPTHS OF ASPHALT FOR USE IN PAVING UNDER GUARDRAIL AND ADDED NOTE 5. |

Section 1300:

Revised index pages 1300.01, 1300.02, 1300.03, & 1300.04

- 1302.20 MP-2 CHANGE LUMINAIRE CALLOUT FROM “TRUSS TYPE LUMINAIRE ARM” TO “LUMINAIRE ARM”
- 1302.24 MP-3 CHANGE LUMINAIRE CALLOUT FROM “TRUSS TYPE LUMINAIRE ARM” TO “LUMINAIRE ARM”. CHANGED DIMENSION FROM TOP OF POLE TO CENTER OF ARM FROM 12” TO 12” MIN.
- 1302.27 MP-3 CHANGE “CASE X LOADING” CALLOUT TO “LOADING CASE X”
- 1302.50 AB-1 REVISED NOTE 4
- 1302.60 VS-1 REVISED NOTE 6
- 1307.11 PA-4 REMOVED PA-3 DETAIL FROM THE STANDARDS
- 1310.20 LF-1 REVISED NOTE 8
- 1311.10 LP-1, 2 CHANGED “BRACKET ARM LENGTH” TO “LUMINAIRE ARM LENGTH”. SHOW BOTH LP-1 AND LP-2 STRUCTURES ON TRANSFORMER BASES; CLARIFY IN NOTES THAT STRUCTURES SHALL BE ON EITHER BREAKAWAY OR NON-BREAKAWAY TRANSFORMER BASES; REVISIONS TO NOTES REGARDING TRANSFORMER BASE INSTALLATION. DELETED NOTE REGARDING WIRE SUPPORT J-HOOKS FOR HAND HOLES MORE THAN 4 FEET UP THE STRUCTURE.
- 1317.10 JB-R1, R2 CLARIFICATION REGARDING NUMBER OF PLACEMENT OF REQUIRED J-HOOKS; MINOR DRAFTING IMPROVEMENTS; REVISED REQUIREMENTS FOR PLACEMENT OF AGGREGATE UNDERNEATH THE JUNCTION BOX AND COMPACTED EARTH ON SIDES OF JUNCTION BOX; CONDUIT ENTRANCE DEPTH REVISED TO READ 18”-24” INSTEAD OF 18”; DELETION OF NOTES THAT ARE DUPLICATES OF REQUIREMENTS IN THE SPECIFICATIONS.
- 1317.11 JB-R1, R2 MINOR REVISIONS TO NOTES
- 1317.20 JB-S1, S2, S3, S4 ADDITION OF 48” X 48” JB-S4 STANDARD; DELETION OF REQUIREMENT THAT JB’S BE ONE- OR TWO-PIECE IN DESIGN; CLARIFICATION OF AGGREGATE AND COMPACTED SOIL PLACEMENT UNDERNEATH AND AROUND BOX; REVISION TO NOTE REGARDING ACCEPTABLE METHODS OF LABELING BOXES; CLARIFICATION REGARDING NUMBER OF PLACEMENT OF REQUIRED J-HOOKS; CONDUIT ENTRANCE DEPTH REVISED TO READ 18”-24” INSTEAD OF 18”; CORRECTED ERROR IN PREVIOUS STANDARD REGARDING LABELING OF DIMENSIONS “A” AND “B”
- 1317.21 JB-S4 NEW SHEET WITH DETAILS FOR 48” X 48” JB-S4 JUNCTION BOX
- 1320.10 WSP-1 STANDARDS EXPANDED TO 7 SHEETS
- 1320.11 WSP-1 STANDARDS EXPANDED TO 7 SHEETS
- 1320.12 WSP-1 STANDARDS EXPANDED TO 7 SHEETS
- 1320.13 WSP-1 SOME DETAILS MOVED TO SHEET 5

Section 1300:

- 1320.14 WSP-1 SQUARE TUBE POST DESIGN TABLE MOVED TO SHEET 6. SHEET 5 NOW ENCOMPASSES DETAILS FOR SIGN PANEL ATTACHMENTS TO POSTS, INCLUDING NEW ALTERNATE ATTACHMENT DETAILS AND NEW DETAILS FOR MOUNTING OF BACK-TO-BACK SIGNS.
- 1320.15 WSP-1 SQUARE TUBE POST DESIGN TABLE MOVED FROM SHEET 5.
- 1320.16 WSP-1 NEW SHEET WITH SPLICE AND CORNER BOLT DETAILS PREVIOUSLY INCLUDED ON SHEET 6. ORIENTATION OF CORNER BOLTS CHANGED SO THAT ALL CORNER BOLT HEADS ARE ON LEFT SIDE.
- 1321.10 STP-1 SINGLE POST MEDIAN INSTALLATION DETAIL MOVED FROM SHEET 12; ADDED NOTES 9 AND 10.
- 1321.17 STP-1 CORRECTED CALLOUT FOR DRIVE TUBE FOUNDATION MATERIALS TO REQUIRE 3/16", NOT 1", STEEL PLATE.
- 1321.19 STP-1 SOME DETAILS MOVED TO SHEET 12 OF 12
- 1321.20 STP-1 INCREASED ALLOWABLE MAXIMUM WIDTH OF SIGN ON A SINGLE POST FROM 5 FEET TO 6 FEET
- 1321.21 STP-1 DETAILS REGARDING SIGN MOUNTING HEIGHT/PLACEMENT FOR INTERCHANGE OFF-RAMPS MOVED TO NEW STANDARD ISD-1. SIGN BRACING DETAILS MOVED FROM SHEET 10 TO SHEET 12. NEW DETAILS WITH ALTERNATE SIGN PANEL MOUNTING DETAILS, AND NEW DETAILS SHOWING HOW TO ATTACH BACK-TO-BACK SIGN PANELS ON THE SAME POST.
- 1329.10 ISD-1 NEW STANDARD SHOWING SPECIAL SIGN PLACEMENT AND MOUNTING HEIGHT REQUIREMENTS FOR CERTAIN SIGNS ON INTERCHANGE OFF-RAMPS.

Any questions related to Section 1300 should be directed to the Traffic Engineering Division.

If you have any questions or comments regarding the 2016 Road & Bridge Standards, please contact Charles Patterson, P.E., at (804) 786-1805, of the Standards and Special Design Section.

Sincerely,

Signature on file Date: 8/31/17

Susan H. Keen, P.E.
State Location & Design Engineer



COMMONWEALTH of VIRGINIA

DEPARTMENT OF TRANSPORTATION
1401 EAST BROAD STREET
RICHMOND, VIRGINIA 23219 2000

Charles A. Kilpatrick, P.E.
Commissioner

February 16, 2017

MEMORANDUM

To: All Users of the Virginia Department of Transportation's Road and Bridge Standards

The Location & Design Division has issued a revision to 2016 edition of the Road and Bridge Standards. The standards are accessible via the 2016 Road and Bridge Standards website shown below:

http://www.virginiadot.org/business/locdes/vdot_road_and_bridge_standards.asp

The new and revised standards will be required for all projects going to Advertisement on September 12, 2017 and all subsequent advertisements. These standards may be used prior to the required date on any project. Insertable sheets will not be required in the plan assemblies for the revised or new standards.

Summarized below are the changes made within each section.

Section 100:

EC-5 – Revised post dimensions and clarified post lengths.

Section 500:

Revised index page 500.03 to add MGS guardrail standards

Added new 31" MGS guardrail standards:

MGS-HDW, GR-MGS1, 1A, GR-MGS2, GR-MGS3, GR-MGS4, and GR-MGS-INS

Note that this new guardrail standard may impact right of way and cross sections.

Section 1300:

OSS-1 – Revised "shall" to "may" in note 2 sheet 1324.11

Any questions related to this section should be directed to the Traffic Engineering Division.

The following Special Design sheets were added to the Central Office Environment on Falcon DMS and the FTP Server.

RSS Reinforced Soil Slope (Sheets 1-2)

If you have any questions or comments regarding the 2016 Road & Bridge Standards, please contact Charles Patterson, P.E., at (804) 786-1805, of the Standards and Special Design Section.

Sincerely,

Signature on File Date: 2/16/17

B. A. Thrasher, P.E.
State Location & Design Engineer