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DESIGN DIVISION
PRODUCTION SUPPORT**

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INSTRUCTIONAL BULLETIN NO. 26-05

Roadway Design Guidelines - PDN and Supporting Documents

Effective with the September 23, 2026 Turn-In (December 4, 2026 Letting), revisions to the Roadway Design Guidelines – PDN, Chapters 1, 2, 3, 4, 5, 7, 8, 9, and 10 have been revised and released for use. The updated chapters and design reference documents are now available as follows:

Roadway Design Guidelines - PDN

- Chapter 1 (General)
 - Section 1-105.01 (LINE AND GRADE PACKAGE FIELD REVIEW SUBMITTAL)
 - The estimate file-naming convention has been revised from
nnnnnn-nn-LineandGradeEstimate.xlsm to
nnnnnn-nn-LineandGradeEstimateQuantities.xlsm.
 - Section 1.105.02 (FUNCTIONAL DESIGN PLANS FIELD REVIEW SUBMITTAL PACKAGE)
 - The estimate file-naming convention has been modified to
nnnnnn-nn-FunctionalDesignPlansFieldReview-EstimateQuantities.pdf, superseding the
prior reference.
 - Section 1-105.03 (FUNCTIONAL DESIGN PLANS SUBMITTAL PACKAGE)
 - The estimate file-naming convention has been revised from
nnnnnn-nn-FunctionalDesignPlansEstimate.xlsm to
nnnnnn-nn-FunctionalDesignPlansEstimateQuantities.xlsm.
 - Table 1-4 and Figure 1-4 have been updated to reflect the new estimate file reference.
 - Section 1-105.04 (RIGHT-OF-WAY REVISION SUBMITTAL)
 - The reference links to the R.O.W. Revision & Process Flowcharts and R.O.W. Exhibit File
Structure & Walkthrough documents have been updated to reflect their current locations.
 - Figure 1-5A has been renamed to Table 1-5 (R.O.W. Submittal Item List Example)
 - Sections 1-105.06 PLAN-IN-HAND FIELD REVIEW SUBMITTAL PACKAGE

- The estimate file-naming convention has been revised to nnnnnn-nn-RoadwayPIHFieldReviewEstimateQuantities.xlsm.
- Section 1.105.07 (PS&E FIELD REVIEW SUBMITTAL PACKAGE)
 - The estimate file-naming convention has been updated to nnnnnn-nn-RoadwayPS&EEstimateQuantities.xlsm.
- Section 1.105.08 (FINAL ROADWAY PS&E SUBMITTAL PACKAGE)
 - Within Table 1-11 and Figure 1-10, the Special Provision Order file extension has been formalized from .pdf to .xlsx.
- Section 1.105.09 (FINAL PS&E DOCUMENTS “COMPLETE PACKAGE”)
 - The estimate file-naming convention has been revised from nnnnnn-nn-Estimates to nnnnnn-nn-EstimateQuantities and modified Figure 1-11A accordingly to show “Quantities” in all filenames.
- Section 1.105.10 (LETTING REVISION SUBMITTAL PACKAGE)
 - The estimate file-naming convention has been revised from nnnnnn-nn-Estimates-LettingRev-mm-dd-yy to nnnnnn-nn-EstimateQuantities-LettingRev-mm-dd-yy and modified Figure 1-15B accordingly to show “Quantities” in all filenames.
 - The naming convention for the Letting Revision email folder has been updated from nnnnnn-nn-LettingRev-Emails-mm-dd-yy to nnnnnn-nn-Emails-LettingRev-mm-dd-yy. This revision is also reflected in Figure 1-15C.
- New Section 1.105.11 (PS&E REVISION SUBMITTAL PROCESS)
 - Added to emphasize the importance of the PS&E revision process and to clearly define the associated responsibilities and expectations.
- Section 1.105.12 (PS&E REVISION SUBMITTAL PACKAGE)
 - The PS&E revision submittal package naming convention has been revised from nnnnnn-nn-PS&ERev-Emails-mm-dd-yy to nnnnnn-nn-Emails-PS&ERev-mm-dd-yy and reflected in the third paragraph above Table 1-14A as well as in Figures 1-17B and 1-18.
 - The paragraph below Figure 1-17D has been revised to reference uploading the submittal package to the ProjectWise Construction Revision (PS&E Revisions) folder, and Figure 1-18A has been added.
- Section 1.108.00 (PROJECT NOTEBOOK)
 - The Project Notebook guidance has been updated to identify the Project Notebook Template location within the project’s ProjectWise folder.
 - Instructions have been added directing users to contact TDOT.BOE.TechnicalTraining@tn.gov if the Project Notebook folder is unavailable.
- Section 1.202.00 (PREPARATION OF PLAN SHEETS)
 - The first paragraph has been revised to reflect the current location of the CADD documents.
- Section 1.202.02 (SHEET SCALES)
 - The profile sheet scaling information has been added as the second bullet point.

- Section 1.206.02 (SEALING PS&E PLANS)
 - A paragraph has been added above Figure 1-60 referencing Section J of the Digital Signature Certification Workflow document and directing users to the naming convention for all divisional Signature Sheets.
- Section 1.402.02 (SUBMITTAL OF FUNCTIONAL DESIGN PLANS ESTIMATE FOR R.O.W. OR UTILITIES ONLY FUNDING)
 - The reference to RDG Chapter 5-504.00, Landscaping Plans, has been removed from the first paragraph
- Chapter 2 (Geometric Design Criteria)
 - The references to RD11 Standard Roadway Drawings have been updated to RD18 Standard Roadway Drawings in the following section and subsections:
 - Section 2-101.00 (HORIZONTAL DESIGN)
 - Subsection 2-101.01 (HORIZONTAL CURVE RADIUS AND SUPERELEVATION RATES)
 - Subsection 2-102.03 (STOPPING SIGHT DISTANCE ON HORIZONTAL AND VERTICAL INTERSECTIONS)
 - Subsection 2-200.05 (DESIGN VEHICLE)
 - Subsection 2-302.02 (BARRIER WARRANT 2: NON-TRAVERSABLE SLOPES)
 - Subsection 2-1100.04 (DESIGN CRITERIA)
- Chapter 3 (Multimodal Design)
 - Section 3-403.00 (SIDEWALK DESIGN ON CURBED ROADWAYS)
 - The MUTCD reference under the Pavement Marking paragraph has been updated from Section 3B.18 to Section 3C to align with the MUTCD 11th Edition.
 - Section 3-405.10 (UNCONTROLLED PEDESTRIAN CROSSINGS)
 - The third paragraph has been revised to align with the MUTCD 11th Edition.
 - Section 3-405.20 (CROSSWALK MARKING AND TYPES)
 - The MUTCD reference in the second paragraph has been updated from Section 3B.18 to Section 3C to align with the MUTCD 11th Edition.
 - Section 3-407.00 (MIDBLOCK PEDESTRIAN CROSSINGS)
 - A paragraph has been added above Table 3-3 to reference MUTCD Section 3C and align with the MUTCD 11th Edition.
 - The reference to the Standard Roadway Drawing has been updated from RD11-SD-Series to RD18-SD-Series.
 - Section 3-409.01 (CROSSWALK FACILITIES)
 - A reference sentence has been added to address the MUTCD 11th Edition Section 3C.09 requirements for crosswalk markings at circular intersections.
 - Section 3-413.00 (SIGHT DISTANCE TRIANGLES)
 - The reference to the Standard Roadway Drawing has been updated from RD11-SD-Series

to RD18-SD-Series.

- Chapter 4 (Context/ Scoping)
 - Section 4-403.04 (RAILROAD EASEMENTS)
 - Figure 4-8 has been updated to align with the new Air-Rights pattern.
 - Section 4-602.02 (RAILROAD ACQUISITION TYPES)
 - Figures 4-9, 4-10, and 4-11 have been updated to align with the new Air-Rights pattern.
 - Section 4-603.02 (PRELIMINARY PLANS FOR PROJECTS CONTAINING GRADE SEPARATED CROSSING(S))
 - Figures 4-16, 4-18, and 4-19 have been updated to align with the new Air-Rights pattern.
- Chapter 5 (Footprint Established)
 - Section 5-205.00 (PORTABLE CONCRETE BARRIER)
 - The PCB Deflection Guidance label has been added to Table 5-2, and Note 1 has been revised for clarity
 - A short paragraph has been added below the table stating that standard drawings T-WZ-PBR-1 and T-WZ-PBR-2 remain approved NCHRP 350 TL-3 systems and may continue to be used through 2030.
 - Section 5-408.00 (RIGHT-OF-WAY REVISIONS)
 - The reference links to the R.O.W. Revision & Process Flowcharts and R.O.W. Exhibit File Structure & Walkthrough documents have been updated to reflect their current locations.
- Chapter 7 (PS&E)
 - Section 7-304.00 (AWARDED PROJECT DOCUMENT SUBMITTAL)
 - The reference to PlanGrid has been updated to the generic term “electronic plans provider.”
 - Section 7-305.00 (PS&E REVISION)
 - The section has been revised to streamline guidance, reference the established PS&E revision process in Sections 1-105.11 and 1-105.12, and ensure consistent procedures for all post-letting revisions.
 - The reference to PlanGrid has been revised to use the generic term “electronic plans provider.”
- Chapter 8 (Item Number)
 - Section 8-210.00 (PERMANENT STORMWATER CONTROL)
 - Eight new items have been added:
 - ➡ 210-01.21 (SC-GRASS SWALE (WITHOUT CHECK DAMS))
 - ➡ 210-01.22 (SC-GRASS SWALE (WITH CHECK DAMS))
 - ➡ 210-01.61 (SCM-HYDRODYNAMIC SEPARATOR - SMALL (CONCRETE))
 - ➡ 210-01.62 (SCM-HYDRODYNAMIC SEPARATOR - MEDIUM (CONCRETE))
 - ➡ 210-01.63 (SCM-HYDRODYNAMIC SEPARATOR - LARGE (CONCRETE))
 - ➡ 210-01.65 (SCM-HYDRODYNAMIC SEPARATOR - SMALL (PLASTIC))
 - ➡ 210-01.66 (SCM-HYDRODYNAMIC SEPARATOR - MEDIUM (PLASTIC))
 - ➡ 210-01.67 (SCM-HYDRODYNAMIC SEPARATOR - LARGE (PLASTIC))

- Chapter 9 (General and Special Notes)

- Section 1 – General Notes

- Section 9-140.00 (PAVEMENT)
 - Blue Note (3) has been revised for clarity.

- Section 2 – Special Notes

- Subsection 9-215.01 (RESURFACING)
 - Note (3) and an instructional note have been added.
 - Subsection 9-215.02 (COLD PLANING)
 - This new subsection, including Notes 1–5, has been added under Section 9-215.00 (PAVEMENT).

The following subsection has been added with three notes:

- Subsection 9-215.03 (JOINT SEALANT)

The following three subsections have been added, each with one note:

- Subsection 9-215.04 (OGFC)
 - Subsection 9-215.05 (SCRUB SEAL)
 - Subsection 9-215.06 (FOG SEALING SHOULDERS)
 - Section 9-225.00 (SIGNALIZATION)
 - This section has been removed because its content is included in Special Provision 700SIG. As a result, Section 9-226.00 (Multimodal) has been renumbered to Section 9-225.00.
 - Section 9-226.00 (MISCELLANEOUS)
 - A new section, including Notes 1–2, has been added

- Chapter 10 (Index and Standard Drawings)

- Section 10-101.02 (RD18 ROADWAY TYPICAL SECTIONS AND DESIGN CRITERIA)
 - The following five new standard drawings have been added.
 - ➡ RD18-SE-1 (TRANSITION AND CROSS SLOPE DETAILS)
 - ➡ RD18-SE-2 (SUPERELEVATION TRANSITION DETAILS FOR UNDIVIDED ROADWAYS)
 - ➡ RD18-SE-2A (SUPERELEVATION TRANSITION SECTIONS FOR UNDIVIDED ROADWAYS)
 - ➡ RD18-SE-3 (SUPERELEVATION TRANSITION DETAILS FOR DIVIDED ROADWAYS)
 - ➡ RD18-SE-3A (SUPERELEVATION TRANSITION SECTIONS FOR DIVIDED ROADWAYS)
 - Section 10-101.04 (RD11 ROADWAY TYPICAL SECTIONS AND DESIGN CRITERIA)
 - This section and all RD11-series standard drawings have been removed.
 - Section 10-101.04 (RD18 SLOPE DEVELOPMENT AND RUNOFF LENGTHS)

- The section number has been renumbered from 10-101.05 to 10-101.04, the header reference has been updated from RD11 to RD18, and the following six new RD18-series standard drawings have replaced the RD11-series drawings.
 - RD18-LR-1 (MINIMUM RUNOFF LENGTHS (LR) FOR URBAN HIGHWAYS)
 - RD18-LR-2 (MINIMUM RUNOFF LENGTHS (LR) FOR RURAL HIGHWAYS)
 - RD18-S-11 (DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT)
 - RD18-S-11A (ROADSIDE DITCH DETAILS FOR DESIGN AND CONSTRUCTION)
 - RD18-S-11B (DESIGN AND CONSTRUCTION DETAILS FOR ROCK CUT SLOPE AND CATCHMENT)
 - RD18-SA-1 (SAFETY APPROACH TO UNDERPASSES GRADING DESIGN AND SLOPE PROTECTION)
- Section 10-101.06 (RD18 INTERSECTION SIGHT DISTANCE)
 - The section number has been renumbered from 10-101.06 to 10-101.05, the header reference has been updated from RD11 to RD18, and the following seven new RD18-series standard drawings have replaced the RD11-series drawings.
 - RD18-SD-1 (INTERSECTION SIGHT DISTANCE DESIGN AND GENERAL NOTES)
 - RD18-SD-2 (INTERSECTION SIGHT DISTANCE LANDSCAPE AND OBSTRUCTION)
 - RD18-SD-3 (INTERSECTION SIGHT DISTANCE 2-LANE ROADWAYS)
 - RD18-SD-4 (INTERSECTION SIGHT DISTANCE 4-LANE AND 5-LANE UNDIVIDED ROADWAYS)
 - RD18-SD-5 (INTERSECTION SIGHT DISTANCE 4-LANE DIVIDED HIGHWAYS)
 - RD18-SD-6 (INTERSECTION SIGHT DISTANCE 6-LANE DIVIDED HIGHWAYS)
 - RD18-SD-7 (INTERSECTION SIGHT DISTANCE FOR PASSIVE RAILROAD HIGHWAY GRADE CROSSINGS)
- Section 10-101.06 (UNDERDRAIN)
 - The section number has been renumbered from 10-101.07 to 10-101.06.
- Section 10-105.01 (VEGETATED FILTER STRIP, SWALE, BIO-SWALE, PERIMETER SAND FILTER, AND HYDRODYNAMIC SEPARATOR)
 - The following five standard drawings have been revised.
 - D-SCM-1 (SCM VEGETATED FILTER STRIP)
 - D-SCM-1A (SCM VEGETATED FILTER STRIP TABLE)
 - D-SCM-2 (SCM GRASS SWALE)
 - D-SCM-3 (SCM BIO-SWALE (WITHOUT SCM UNDERDRAIN))
 - D-SCM-4 (SCM BIO-SWALE (WITH SCM UNDERDRAIN))
 - The following new standard drawing has been added.
 - D-SCM-5A (SCM PERIMETER SAND FILTER TABLE)

- Section 10-106.05 (FENCES AND RIGHT-OF-WAY MARKERS)
 - The following standard drawing has been revised.
 - ➡ S-RP-2 (STANDARD CONCRETE RIGHT-OF-WAY MARKERS)
- Section 10-108.06 (GUARDRAIL (SPECIAL CASES))
 - The following standard drawing has been revised.
 - ➡ S-GRS-4 (SPECIAL CASE GUARDRAIL HEIGHT TRANSITION DETAIL)
- Section 10-109.02 (SLOPE DEVICES)
 - The following standard drawing has been revised.
 - ➡ EC-STR-34 (EROSION CONTROL BLANKET FOR SLOPE INSTALLATION)
- Section 10-200.00 (SIGNS)
 - The following standard drawing has been removed.
 - ➡ T-S-16A (GROUND MOUNTED ROADSIDE SIGN PLACEMENT DETAILS)
- Section 10-204.01 (PAVEMENT MARKINGS)
 - The following standard drawing has been revised.
 - ➡ T-M-18 (FLEXIBLE DELINEATOR DETAILS)
 - ➡ T-M-18A (DELINEATOR MOUNTING DETAILS)
- Section 10-204.02 (WORK ZONES)
 - The following standard drawing has been revised.
 - ➡ T-WZ-62 (CONSTRUCTION ACCESS/EMERGENCY PULL-OFF ON FREEWAYS)
- Section 10-300.00 (NEW STRUCTURES)
 - The following four standard drawings have been revised.
 - ➡ STD-1-5 (REINFORCED CONCRETE PAVEMENT AT BRIDGE ENDS)
 - ➡ STD-3-1 (STRIPSEAL EXPANSION JOINT NEW CONSTRUCTION)
 - ➡ STD-3-1A (STRIPSEAL EXPANSION JOINT NEW CONSTRUCTION) - renumbered from STD-3-2.
 - ➡ STD-9-1 (STANDARD REINFORCING BAR SUPPORT DETAILS FOR CONCRETE SLABS)
- Section 10-301.00 (LRFD BOX CULVERTS)
 - The following seven standard drawings have been revised.
 - ➡ STD-17-1 (INDEX OF DRAWINGS)
 - ➡ STD-17-2 (TERMINOLOGY OF DRAWINGS)
 - ➡ STD-17-3 (GENERAL NOTES)
 - ➡ STD-17-18 (BACKFILL DETAILS)
 - ➡ STD-17-25 (STAGE CONSTRUCTION JOINT DETAIL (FILL ABOVE TOP OF SLAB NOT GREATER THAN 3'-6"))
 - ➡ STD-17-28 (END SECTION DETAILS)
 - ➡ STD-17-51 (BOX BRIDGE, 1 BARREL AT 6', CLEAR HTS. 3' - 6', 0 - 60' FILL)
 - The following standard drawing has been removed.
 - ➡ STD-17-4 (DESIGN SECTION LIMITS)

Design Reference Documents

- 2nd Sheet Documents
 - General Notes and Special Notes (MicroStation V8i & Word)
 - The notes were revised to align with the updates made in RDG Chapter 9.
 - Index and Standard Roadway Drawings, Standard Roadway Drawings, Standard Traffic Design Drawings, and Standard Structure Drawings (MicroStation V8i & Word)
 - The documents were revised to reflect updates to RDG chapter 10.
 - Estimated Roadway Quantities (.xslm)
 - Notes have been added to the footnote tabulation regarding the use of 10-foot PCB for radii less than 230 feet, the use of freestanding work zone barrier from the QPL when deflection is a concern, and the reference to Section 5-205.00.
 - The haul road note has been revised to align with the note in RDG Chapter 2, Section 2-1201.02.
 - Items.dat
 - The file has been updated to include the eight new permanent stormwater control pay items:
 - 210-01.21 (SC-GRASS SWALE (WITHOUT CHECK DAMS))
 - 210-01.22 (SC-GRASS SWALE (WITH CHECK DAMS))
 - 210-01.61 (SCM-HYDRODYNAMIC SEPARATOR - SMALL (CONCRETE))
 - 210-01.62 (SCM-HYDRODYNAMIC SEPARATOR - MEDIUM (CONCRETE))
 - 210-01.63 (SCM-HYDRODYNAMIC SEPARATOR - LARGE (CONCRETE))
 - 210-01.65 (SCM-HYDRODYNAMIC SEPARATOR - SMALL (PLASTIC))
 - 210-01.66 (SCM-HYDRODYNAMIC SEPARATOR - MEDIUM (PLASTIC))
 - 210-01.67 (SCM-HYDRODYNAMIC SEPARATOR - LARGE (PLASTIC))
- PS&E Design Checklist
 - The estimate file-naming conventions have been updated to align with the revisions in RDG Chapter 1.
- Specific Notes & Footnotes Related to Special Items in the RDG
 - Additional notes have been added to provide guidance regarding the use of 10-foot PCB for radii less than 230 feet, the use of freestanding work zone barrier from the QPL when deflection is a concern, and the reference to Section 5-205.00.
 - The haul road note has been revised to align with the note in RDG Chapter 2, Section 2-1201.02.
- Submittal Templates
 - Letting Revision Submittal (RTE to HQ Construction).msg
 - A checkbox has been added below the Railroad Involvement checkbox for projects with revised estimates.
 - PS&E Revision.msg
 - Blue instructional text has been added to the email template, including an example of the email subject line at the top of the template, guidance under the Description of Revision field, and instructions above the ZIP filename to ensure the filename is hyperlinked to its

corresponding ProjectWise location. A note has also been added instructing users to click the ZIP filename to open its ProjectWise location.

OpenRoads Designer (ORD)

- **(New)** TDOT_ORD-OBM_2025_Blended_Workspace-07.31.26.zip

Workspace Installation:

The workspace must be placed in both of the following locations.

- C:\ProgramData\Bentley\OpenBridge Modeler 2025.00\
 - C:\ProgramData\Bentley\OpenRoads Designer 2025.00\
- **(New)** TDOT ORD-OBM 2025 Blended Workspace Configuration Summary-07-31-26
- **(New)** TDOT_ORD_2023_Workspace_Partial_Update_07_31_26.zip
- **(Updated)** R.O.W. Exhibits Quick Guide
- **(Updated)** ORD File Naming Convention Standards

Standard Geodetic File

- **(Updated)** R.O.W. Acquisition Table

For any questions about the PDN process, contact TDOT Program Delivery.

For any questions about the RDG, contact TDOT Design Division - Production Support at TDOT.EngineeringProductionSupport@tn.gov.

For any questions about ORD, ProjectWise, or Project Notebook, contact TDOT Design Division - Technical Training at TDOT.BOE.TechnicalTraining@tn.gov.

Revised Links:

[Roadway Design Guidelines-PDN and Reference Documents](#)
[2nd Sheets Documents](#)
[Standard Design CADD Files \(MicroStation\)](#)
[ORD Resources](#)
[Standard Geodetic Files and Documents](#)



Director - Jennifer Lloyd, PE
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KJL: LHC: WKA: DS
July 31, 2026