



**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

ALTERNATIVE DELIVERY DIVISION

REGION 4
300 BENCHMARK PLACE
JACKSON, TENNESSEE 38301

WILL REID
DEPUTY GOVERNOR &
COMMISSIONER OF TRANSPORTATION

BILL LEE
GOVERNOR

November 14, 2025

**Re: Addendum No. 2
Contract No. DB2506
Counties: Haywood and Lauderdale**

To the Shortlisted Proposers:

This addendum revises the RFP sections as detailed below. Attached are the revised sheets.

- Revised the Book 1 (ITP) procurement schedule to accommodate the Bid Express maintenance shutdown occurring over the winter holiday.
- Revised Book 3 to include:
 - Section 4.2: Further relaxed the bridge hydraulic requirements for Bridge 29 and Bridge 46.
 - Section 7.4: The clouded section in the following revised sheets was provided as part of the Addendum #1 release, but is being provided in the revised sheets to confirm this Section 7.4 has been included in the RFP.
 - Attachment B: Minor cleanup of various design criteria tables as depicted in the following revised sheets.

The Proposer must acknowledge this addendum as indicated in Section 3.2.2 of Book 1 by acknowledging the addendum on Form C. The native files for the RFP forms (including Form C) are included on the Project website.

Sincerely,

Derek Link
TDOT Project Manager
Alternative Delivery – Region 4



TENNESSEE DEPARTMENT OF TRANSPORTATION

Design-Build RFP

Book 1 Instructions to Proposer (ITP)

Timber Bridge Bundle One

Haywood and Lauderdale Counties, Tennessee

Project Identification Number (PIN): **136185.00**

State Project Number: **R4SVAR-S1-049**

DB Contract# **DB2506**

Final RFP: October 2025

Addendum #1: October 2025

Addendum #2: November 2025

1.3 Procurement Schedule/Submittal Deadlines

The following procurement schedule and submittal deadlines are set out below. TDOT will not consider any submittal received after the deadlines stated below.

Event/Submittal	Date/Time
TDOT issues draft RFP	August 22, 2025
Proposer's Deadline for submittal of Form QR on the draft RFP	September 12, 2025 11 a.m. central time
Confidential (One-on-One) Meetings (as part of the industry review process of a draft RFP)	September 24, 2025
TDOT issues final RFP	October 6, 2025
Proposer's Deadline for submittal of Form QR on the final RFP	October 13, 2025 3 p.m. central time
Optional Confidential (One-on-One) Meetings: re RFP and final ATC discussion	October 23, 2025
TDOT issues Addendum No. 1	October 29, 2025
<u>TDOT issues Addendum No. 2</u>	<u>November 14, 2025</u>
Proposer's deadline for submittal of <u>any last</u> Form QR, requests for QPL determination, organizational or Key Individual change requests, SOQ conflicts of interests update, and/or alternate technical concepts (ATCs)	<u>December 3</u> November 4 , 2025 1 p.m. central time
TDOT's last response on Form QR, requests for QPL determination, organizational changes, SOQ resubmittals, and/or alternate technical concepts (ATCs) determination TDOT's issuance of last addendum	<u>December 17</u> November 14 , 2025
Proposer's Technical Proposal and Price Proposal Due Date	<u>January 20, 2026</u> December 16, 2025 1 p.m. central time
Public Price Proposal opening	<u>February</u> January 14 , 2026
Notice of Best Evaluated Design-Builder	<u>February</u> January 2026
Anticipated award of design-build contract (or rejection of all Proposal)	February/ <u>March</u> 2026
Anticipated issuance of initial notice to proceed	March/April 2026



TENNESSEE DEPARTMENT OF TRANSPORTATION

Design-Build

Book 3 Project Specific Information

Timber Bridge Bundle One

Haywood and Lauderdale Counties, Tennessee

Project Identification Number (PIN): 136185.00

State Project Number: R4SVAR-S1-049

DB Contract# **DB2506**

Final RFP: October 2025

Addendum #1 October 2025

Addendum #2: November 2025

- In addition to those surfaces, all exposed surfaces of the wingwalls, abutments, and exterior portions of the endwalls shall receive an applied texture finish (gray, AMS-STD-595A, color number 36440).
- Before applying any texture finish, all surfaces shall be completely cleaned of all debris and foreign material.

The Design-Builder shall use containment screens or other measures as necessary to prevent any texture coating from entering environmental features. Containment measures shall be approved by the Department and consistent with the NPDES construction general permit.

The Department's Tri-Star State Emblem is not required for use on these bridges.

The Design-Builder shall perform a hydraulic analysis for bridge deck drainage and shall meet the criteria in the TDOT *Design Procedures for Hydraulic Structures*. Deck drains, as needed, shall be in accordance with the details shown on TDOT Standard Drawing STD-1-2SS. Bridge deck drains may discharge directly into the stream only if allowed in the permits.

The Design Builder shall adhere to all permits, FEMA, and hydraulic design criteria when designing bridges, culverts, and culvert extensions. As noted in Section 3, the Design-Builder shall reference the Department's *Drainage Manual* and *Design Procedures for Hydraulic Structures*. Design Builder shall use FHWA scour publication HEC-18, and FHWA's Hydraulic Engineering Circular 21 "Design of Bridge Deck Drainage," and Hydraulic Engineering Circular 22, "Urban Drainage Design Manual". Hydraulic designs for all structures shall include a 1D hydraulic model using HEC-RAS or 2D hydraulic model using HEC-RAS or SMS-SRH2D of the 'no-bridge', existing structure, and proposed structure conditions for flood events up to the 500-year flood. TDOT's hydrologic procedure requires evaluating the recommended flow rates from StreamStats, any nearby stream gages, and any existing flows published in a FEMA Flood Insurance Study. The Design-Builder shall determine flow rates following this procedure and increase the established flow rates by 10% to account for current hydrological conditions. The Design-Builder shall submit a hydraulic design to the Department for Review and Comment, which shall be sealed by a Professional Engineer licensed in Tennessee. The bridge hydraulic design shall meet the FEMA requirements for the proposed 100-year flood elevation and meet the Department's backwater requirements for a 50-year design flood. Excavation below natural ground elevation for the purpose of flood storage or adding hydraulic capacity to the bridge shall not be allowed.

The Design-Builder shall submit shop drawings in accordance with the requirements set forth in the TDOT Standard Specifications for bridge components, erection plans, and calculations for concurrence by the Department.

Should the Design-Builder elect to use drilled shafts, the Design-Builder shall construct each drilled shaft according to Special Provision 625, Drilled Shaft. Design-Builder shall prepare all drilled shafts to accommodate cross-hole sonic logging (CSL) testing per the *TDOT Structures Design Guidelines*. Additionally, 3D tomography will be required for shafts that are six feet in diameter and larger per Special Provision Section 625.51.

The proposed low girder elevation shall be equal to or greater than **the higher of** 1) the 50-year flood elevation plus 1' **or** 2) the 100-year flood elevation. However, the proposed finished grade of the structure shall be equal to or exceed the existing finished grade. The 50-year and 100-year flood elevations shall be determined by the Design-Builder's hydraulic analysis, as concurred to by the Department.

For Bridges 29 and 46, the proposed low girder elevation shall be ~~equal to or greater than **the higher of** 1) the 50-year flood elevation plus 1' **or** 2) the 100-year flood elevation~~ **the 10-year flood elevation plus 1' or 2)** the existing low girder elevation. ~~However, the~~ **the proposed finished grade of the structure shall be equal to or exceed the existing finished grade.**

7.4 Railroad Coordination for Bridge 46

Through early railroad investigation, the Department has identified potential impacts to railroad ROW and operations that may require Special Provision 105C and ROW/easement acquisitions from Illinois Central Gulf Railroad Company (Railroad) based on the Design-BUILDER's Design Documents.

7.4.1 Railroad Coordination Activities

The Design-BUILDER shall submit its Definitive Design Plans (for Bridge 46 only) within 90 days of the Post-Award Meeting to allow the Department to initiate coordination efforts with the Railroad on behalf of the Design-BUILDER. This plan set shall include all required Railroad property information, a ROW/easement impact table, and other design details (as required per the DB Standard Guidance and the *TDOT Utility Manual*).

After acceptance of the **final** Definitive Design Plans (Final DD Plans) for Bridge 46, the Department will lead the Railroad coordination efforts to support the Design-BUILDER's ultimate construction of the bridge. This includes the Department:

- Preparing the Railroad estimate so that funding can be authorized to proceed.
- Developing and finalizing Special Provision 105C and acquiring the necessary ROW or easement areas needed to construct Bridge 46 based on the Final DD Plans.
- Preparing and executing the appropriate construction agreement(s) and certification so that Design-BUILDER may proceed, upon a specific Bridge 46 notice to proceed, with construction of the bridge.

The Design-BUILDER shall:

- Provide the Department with timely information related to its Bridge 46 Design Documents (e.g., plans, sketches, exhibits) and related coordination and ROW details to support the Department's Railroad coordination efforts throughout the durations listed in Table 10.
- Sequence its construction Work for Bridge 46 to be the last bridge to be constructed, affording the Department the time listed in Table 10 for the Department to complete its Railroad coordination and ROW/easement acquisition activities.
- Not contact the Railroad through the process, unless directed by the Department.

Upon finalization of Special Provision 105C and any related railroad agreements, the Department will revise the Contract Documents (for added cost only) to compensate the Design-BUILDER for any additional Railroad work requirements (e.g., insurance, flagging).

7.4.2 Railroad Coordination Timelines

Once the Final Definitive Design Plans (Final DD Plans) are accepted for Bridge 46, the Design-BUILDER shall account for the following sequential durations in its CPM Schedule, allowing for the Department to complete the necessary Railroad coordination activities (and acquire any needed railroad ROW or easement) associated with Bridge 46. **Note:** The Design-BUILDER shall still be responsible for all other utility coordination and ROW acquisition activities unrelated to the Railroad at this bridge location.

The clouded section was provided as part of Addendum #1, but has been provided again in these revised sheets based on a proposer question to confirm this section has been included in the RFP. Also see the Addendum #2 clean version where this Section 7.4 has been included in total.

Table 10: Railroad Timelines

Activity	Estimated Timeframe	Responsible Party
Prepare railroad estimate	8 weeks	TDOT
Prepare Special Provisions 105C and execute the Railroad Agreement	52 weeks	TDOT
Acquire necessary railroad ROW/easement	52 weeks	TDOT
Prepare and provide the railroad certification and notice to proceed for Bridge 46 construction	6 weeks	TDOT

If the total number of weeks extends beyond the total railroad timeline listed in Table 10 (i.e., 118 weeks from TDOT acceptance of the Final DD Plans for Bridge 46), the Department will review the Design-Builder's time impact analysis for impacts to the Critical Path that may justify additional Contract Time. If warranted, additional time will be granted to extend the Contract Completion date, but this extension will be non-compensable.

7.4.3 Design-Builder's Changes in Design

For purposes of this Section 7 related to Railroad coordination, a change in design is defined as the Design-Builder's modification of its Design Documents that require additional or necessitate a change to the ROW or easement areas **or** that require the Department to modify its Special Provision 105C or its Railroad construction agreement(s) **after** acceptance of the Design-Builder's Final Definitive Design Plans (Final DD Plans).

In any of these circumstances, the Design-Builder shall bear all cost and time for the Department's additional Railroad coordination efforts, which shall be accounted for in the CPM Schedule without any extension to the Contract Completion Date.

The clouded section was provided as part of Addendum #1, but has been provided again in these revised sheets based on a proposer question to confirm this section has been included in the RFP. Also see the Addendum #2 clean version where this Section 7.4 has been included in total.

Attachment B: Roadway Design Criteria

Bridge 29

GENERAL INFORMATION

Roadway Identification	SR 87 Bridge #29 over Lagoon Creek (LM 3.61) - Haywood Co.	
Roadway Limits	L.M. 3.58 TO 3.70	
Functional Classification	Rural Major Collector	
Design Speed	55 (45 pending design waiver approval)	
Design Year	2049	
Traffic Volume	410	
Level of Service	N/A	
Access Control	Full Access	
Design Units	English	
TYPICAL SECTION	See RD11-TS-2	
Travel Lanes		
Number of Lanes	2	
Lane Width	11	
Cross Slope	2%	
Max Superelevation	8%	
Shoulders		
Shoulder Width	4	
Cross Slope	4%	
Max Rollover	7%	
Median	N/A	
Width	N/A	
Slope	N/A	
Side Slopes		
Clear Zone Width	12'-14' Minimum	14'-18' Minimum
Slope Inside Clear Zone	6:1 or Flatter (Unprotected)	5:1 to 4:1 (Unprotected)
Slope Outside Clear Zone	2:1 Maximum	
HORIZONTAL ALIGNMENT		
Min Radius of Curve	960' for 8%	

VERTICAL ALIGNMENT	See RD11-TS-2
Max Grade	
Ascending	6% (Level)
Descending	6% (Level)
Min Curvature (K)	
Sag Vertical Curve	115
Crest Vertical Curve	114
DRAINAGE	
Calculation of Q	Rational Method for D.A. < 100 Acres TR-55 Method for D.A. 128 Acres > D.A. > 100 Acres Rural Regression for D.A. > 128 Acres
Cross Drains	
Flood Frequency	50 Year (100 Year Check)
Pipe Material	RCP
Minimum Freeboard	50 Year
Side Drains	
Flood Frequency	N/A
Pipe Material	N/A
Storm Drains	
Flood Frequency	N/A
Pipe Material	N/A
Pavement Spread	N/A
Minimum Pipe Size	18"
Minimum Cover	Not less than 12" measured from the bottom of the subgrade to the top of the outside face of the pipe.
INTERSECTIONS	
Stopping Sight Distance	495' for 55 mph
Design Vehicle	WB-67
NOTES:	Contact TDOT Hydraulics for Flow Rate for Bridge Design.

GENERAL INFORMATION

Roadway Identification	SR 87 Bridge #29 over Lagoon Creek (LM 3.61) - Haywood Co.	
Roadway Limits	L.M. 3.58 TO 3.70	
Functional Classification	Rural Major Collector	
Design Speed	55 (See Notes)	
Design Year	2049	
Traffic Volume	410	
Level of Service	N/A	
Access Control	Full Access	
Design Units	English	
TYPICAL SECTION	See RD11-TS-2	
Travel Lanes		
Number of Lanes	2	
Lane Width	11	
Cross Slope	2%	
Max Superelevation	8%	
Shoulders		
Shoulder Width	4	
Cross Slope	4%	
Max Rollover	7%	
Median	N/A	
Width	N/A	
Slope	N/A	
Side Slopes		
Clear Zone Width	12'-14' Minimum	14'-18' Minimum
Slope Inside Clear Zone	6:1 or Flatter (Unprotected)	5:1 to 4:1 (Unprotected)
Slope Outside Clear Zone	2:1 Maximum	
HORIZONTAL ALIGNMENT		
Min Radius of Curve	960' for 8%	

VERTICAL ALIGNMENT	See RD11-TS-2
Max Grade	
Ascending	6% (Level)
Descending	6% (Level)
Min Curvature (K)	
Sag Vertical Curve	115
Crest Vertical Curve	114
DRAINAGE	
Calculation of Q	Rational Method for D.A. < 100 Acres TR-55 Method for D.A. 128 Acres > D.A. > 100 Acres Rural Regression for D.A. > 128 Acres
Cross Drains	
Flood Frequency	50 Year (100 Year Check)
Pipe Material	RCP
Minimum Freeboard	50 Year
Side Drains	
Flood Frequency	N/A
Pipe Material	N/A
Storm Drains	
Flood Frequency	N/A
Pipe Material	N/A
Pavement Spread	N/A
Minimum Pipe Size	18"
Minimum Cover	Not less than 12" measured from the bottom of the subgrade to the top of the outside face of the pipe.
INTERSECTIONS	
Stopping Sight Distance	495' for 55 mph
Design Vehicle	WB-67
NOTES:	Contact TDOT Hydraulics for Flow Rate for Bridge Design.
	Design Waiver at 45 MPH design speed allowed for vertical alignment only.

Bridges 31 and 32

GENERAL INFORMATION

Roadway Identification	Bridge #32 over Otter Creek (LM 2.01) - Haywood Co.	
Roadway Limits	L.M. 2.53 to L.M. 2.82	
Functional Classification	Rural Major Collector	
Design Speed	50	
Design Year	2049	
Traffic Volume	630	
Level of Service	N/A	
Access Control	Full Access	
Design Units	English	
TYPICAL SECTION	See RD11-TS-2	
Travel Lanes		
Number of Lanes	2	
Lane Width	11'	
Cross Slope	0.02	
Max Superelevation	0.08	
Shoulders		
Shoulder Width	4	
Cross Slope	0.04	
Max Rollover	0.07	
Median	N/A	
Width	N/A	
Slope	N/A	
Side Slopes		
Clear Zone Width	10-12' Minimum	12-14' Minimum
Slope Inside Clear Zone	6:1 or Flatter (Unprotected)	5:1 to 4:1 (Unprotected)
Slope Outside Clear Zone	2:1 Maximum	
HORIZONTAL ALIGNMENT		
Min Radius of Curve	758' for 8%	

VERTICAL ALIGNMENT	See RD11-TS-2
Max Grade	
Ascending	6% (Level)
Descending	6% (Level)
Min Curvature (K)	
Sag Vertical Curve	96
Crest Vertical Curve	84
DRAINAGE	
Calculation of Q	Rational Method for D.A. < 100 Acres TR-55 Method for 128 Acres > D.A. > 100 Acres Rural Regression for D.A. > 128 Acres
Cross Drains	
Flood Frequency	50 Year (100 Year Check)
Pipe Material	RCP
Minimum Freeboard	50 Year
Side Drains	
Flood Frequency	50 Year (100 Year Check)
Pipe Material	HDPE OR RCP
Storm Drains	
Flood Frequency	N/A
Pipe Material	N/A
Pavement Spread	N/A
Minimum Pipe Size	18"
Minimum Cover	Not less than 12" measured from the bottom of the subgrade to the top of the outside face of the pipe.
INTERSECTIONS	
Stopping Sight Distance	425' for 50 mph
Design Vehicle	WB-67
NOTES:	Contact TDOT Hydraulics for Flow Rate for Bridge Design

GENERAL INFORMATION

Roadway Identification	SR 180 Bridge #31 over Overflow (LM 2.61) and Bridge #32 over Otter Creek (LM 2.74) - Haywood Co.	
Roadway Limits	LM 2.53 to LM 2.82	
Functional Classification	Rural Major Collector	
Design Speed	50	
Design Year	2049	
Traffic Volume	630	
Level of Service	N/A	
Access Control	Full Access	
Design Units	English	
TYPICAL SECTION	See RD11-TS-2	
Travel Lanes		
Number of Lanes	2	
Lane Width	11'	
Cross Slope	0.02	
Max Superelevation	0.08	
Shoulders		
Shoulder Width	4	
Cross Slope	0.04	
Max Rollover	0.07	
Median	N/A	
Width	N/A	
Slope	N/A	
Side Slopes		
Clear Zone Width	10-12' Minimum	12-14' Minimum
Slope Inside Clear Zone	6:1 or Flatter (Unprotected)	5:1 to 4:1 (Unprotected)
Slope Outside Clear Zone	2:1 Maximum	
HORIZONTAL ALIGNMENT		
Min Radius of Curve	758' for 8%	

VERTICAL ALIGNMENT	See RD11-TS-2
Max Grade	
Ascending	6% (Level)
Descending	6% (Level)
Min Curvature (K)	
Sag Vertical Curve	96
Crest Vertical Curve	84
DRAINAGE	
Calculation of Q	Rational Method for D.A. < 100 Acres TR-55 Method for 128 Acres > D.A. > 100 Acres Rural Regression for D.A. > 128 Acres
Cross Drains	
Flood Frequency	50 Year (100 Year Check)
Pipe Material	RCP
Minimum Freeboard	50 Year
Side Drains	
Flood Frequency	50 Year (100 Year Check)
Pipe Material	HDPE OR RCP
Storm Drains	
Flood Frequency	N/A
Pipe Material	N/A
Pavement Spread	N/A
Minimum Pipe Size	18"
Minimum Cover	Not less than 12" measured from the bottom of the subgrade to the top of the outside face of the pipe.
INTERSECTIONS	
Stopping Sight Distance	425' for 50 mph
Design Vehicle	WB-67
NOTES:	Contact TDOT Hydraulics for Flow Rate for Bridge Design

Bridge 46

GENERAL INFORMATION

Roadway Identification	SR 87 Bridge #46 over Drainage Ditch (LM 20.76) - Lauderdale Co.	
Roadway Limits	L.M. 20.74 TO L.M. 20.78	
Functional Classification	Urban Major Collector	
Design Speed	30 (See Notes)	
Design Year	2049	
Traffic Volume	720	
Level of Service	N/A	
Access Control	Full Access	
Design Units	English	
TYPICAL SECTION	See RD11-TS-2	
Travel Lanes		
Number of Lanes	2	
Lane Width	11'	
Cross Slope	0.02	
Max Superelevation	0.08	
Shoulders		
Shoulder Width	4	
Cross Slope	0.04	
Max Rollover	0.07	
Sidewalks	5' South Side Only	
Median	N/A	
Width	N/A	
Slope	N/A	
Side Slopes		
Clear Zone Width	7-10' Minimum	7-10' Minimum
Slope Inside Clear Zone	6:1 or Flatter (Unprotected)	5:1 to 4:1 (Unprotected)
Slope Outside Clear Zone	2:1 Maximum	
HORIZONTAL ALIGNMENT		
Min Radius of Curve	214' for 8%	

VERTICAL ALIGNMENT	See RD11-TS-2
Max Grade	
Ascending	7% (Level)
Descending	7% (Level)
Min Curvature (K)	See Notes
Sag Vertical Curve	37 (30 MPH) 17 (20 MPH)
Crest Vertical Curve	19 (30 MPH) 7 (20 MPH)
DRAINAGE	
Calculation of Q	Rational Method for D.A. < 100 Acres TR-55 Method for 128 Acres > D.A. > 100 Acres Rural Regression for D.A. > 128 Acres
Cross Drains	
Flood Frequency	50 Year (100 Year Check)
Pipe Material	RCP
Minimum Freeboard	50 Year
Side Drains	
Flood Frequency	50 Year (100 Year Check)
Pipe Material	HDPE or RCP
Storm Drains	
Flood Frequency	10 Year (50 Year in Roadway Sag Sections)
Pipe Material	RCP
Pavement Spread	8'
Minimum Pipe Size	18"
Minimum Cover	Not less than 12" measured from the bottom of the subgrade to the top of the outside face of the pipe.
INTERSECTIONS	
Stopping Sight Distance	200'
Design Vehicle	P (Passenger Vehicle) (8'0" Vertical Clearance at Tunnel)
NOTES:	Contact TDOT Hydraulics for Flow Rate for Bridge Design
	Design Waiver at 20 MPH design speed allowed for vertical alignment only. (pending)

GENERAL INFORMATION

Roadway Identification	SR 87 Bridge #46 over Drainage Ditch (LM 20.76) - Lauderdale Co.	
Roadway Limits	L.M. 20.74 TO L.M. 20.78	
Functional Classification	Urban Major Collector	
Design Speed	30 (See Notes)	
Design Year	2049	
Traffic Volume	720	
Level of Service	N/A	
Access Control	Full Access	
Design Units	English	
TYPICAL SECTION	See RD11-TS-2	
Travel Lanes		
Number of Lanes	2	
Lane Width	11'	
Cross Slope	0.02	
Max Superelevation	0.08	
Shoulders		
Shoulder Width	4	
Cross Slope	0.04	
Max Rollover	0.07	
Sidewalks	5' South Side Only	
Median	N/A	
Width	N/A	
Slope	N/A	
Side Slopes		
Clear Zone Width	7-10' Minimum	7-10' Minimum
Slope Inside Clear Zone	6:1 or Flatter (Unprotected)	5:1 to 4:1 (Unprotected)
Slope Outside Clear Zone	2:1 Maximum	
HORIZONTAL ALIGNMENT		
Min Radius of Curve	214' for 8%	

VERTICAL ALIGNMENT	See RD11-TS-2
Max Grade	
Ascending	7% (Level)
Descending	7% (Level)
Min Curvature (K)	See Notes
Sag Vertical Curve	37 (30 MPH) 17 (20 MPH)
Crest Vertical Curve	19 (30 MPH) 7 (20 MPH)
DRAINAGE	
Calculation of Q	Rational Method for D.A. < 100 Acres TR-55 Method for 128 Acres > D.A. > 100 Acres Rural Regression for D.A. > 128 Acres
Cross Drains	
Flood Frequency	50 Year (100 Year Check)
Pipe Material	RCP
Minimum Freeboard	50 Year
Side Drains	
Flood Frequency	50 Year (100 Year Check)
Pipe Material	HDPE or RCP
Storm Drains	
Flood Frequency	10 Year (50 Year in Roadway Sag Sections)
Pipe Material	RCP
Pavement Spread	8'
Minimum Pipe Size	18"
Minimum Cover	Not less than 12" measured from the bottom of the subgrade to the top of the outside face of the pipe.
INTERSECTIONS	
Stopping Sight Distance	200'
Design Vehicle	P (Passenger Vehicle) (8'0" Vertical Clearance at Tunnel)
NOTES:	Contact TDOT Hydraulics for Flow Rate for Bridge Design
	Design Waiver at 20 MPH design speed allowed for vertical alignment only.

Bridge 47

GENERAL INFORMATION

Roadway Identification	SR 87 Bridge #47 over Branch (TMA)(LM 5.18) - Lauderdale Co.	
Roadway Limits	L.M. 5.03 TO 5.33	
Functional Classification	Rural Major Collector	
Design Speed	55	
Design Year	2049	
Traffic Volume	440	
Level of Service	N/A	
Access Control	Full Access	
Design Units	English	
TYPICAL SECTION	See RD11-TS-2	
Travel Lanes		
Number of Lanes	2	
Lane Width	11	
Cross Slope	2%	
Max Superelevation	8%	
Shoulders		
Shoulder Width	2	
Cross Slope	4%	
Max Rollover	7%	
Median	N/A	
Width	N/A	
Slope	N/A	
Side Slopes		
Clear Zone Width	12'-14' Minimum	14'-18' Minimum
Slope Inside Clear Zone	6:1 or Flatter (Unprotected)	5:1 to 4:1 (Unprotected)
Slope Outside Clear Zone	2:1 Maximum	
HORIZONTAL ALIGNMENT		
Min Radius of Curve	960' for 8%	

VERTICAL ALIGNMENT	See RD11-TS-2
Max Grade	
Ascending	6% (Level)
Descending	6% (Level)
Min Curvature (K)	
Sag Vertical Curve	115
Crest Vertical Curve	114
DRAINAGE	
Calculation of Q	Rational Method for D.A. < 100 Acres TR-55 Method for D.A. 128 Acres > D.A. > 100 Acres Rural Regression for D.A. > 128 Acres
Cross Drains	
Flood Frequency	50 Year (100 Year Check)
Pipe Material	RCP
Minimum Freeboard	50 Year
Side Drains	
Flood Frequency	N/A
Pipe Material	N/A
Storm Drains	
Flood Frequency	N/A
Pipe Material	N/A
Pavement Spread	N/A
Minimum Pipe Size	18"
Minimum Cover	Not less than 12" measured from the bottom of the subgrade to the top of the outside face of the pipe.
INTERSECTIONS	
Stopping Sight Distance	495' for 55 mph
Design Vehicle	WB-67
NOTES:	Contact TDOT Hydraulics for Flow Rate for Bridge Design.

GENERAL INFORMATION

Roadway Identification	SR 87 Bridge #47 over Branch (LM 5.18) - Lauderdale Co.	
Roadway Limits	L.M. 5.03 TO 5.33	
Functional Classification	Rural Major Collector	
Design Speed	55	
Design Year	2049	
Traffic Volume	370	
Level of Service	NA	
Access Control	Full Access	
Design Units	English	
TYPICAL SECTION	See RD11-TS-2	
Travel Lanes		
Number of Lanes	2	
Lane Width	11	
Cross Slope	2%	
Max Superelevation	8%	
Shoulders		
Shoulder Width	2	
Cross Slope	4%	
Max Rollover	7%	
Median	N/A	
Width	N/A	
Slope	N/A	
Side Slopes		
Clear Zone Width	12'-14' Minimum	14'-18' Minimum
Slope Inside Clear Zone	6:1 or Flatter (Unprotected)	5:1 to 4:1 (Unprotected)
Slope Outside Clear Zone	2:1 Maximum	
HORIZONTAL ALIGNMENT		
Min Radius of Curve	960' for 8%	

VERTICAL ALIGNMENT	See RD11-TS-2
Max Grade	
Ascending	6% (Level)
Descending	6% (Level)
Min Curvature (K)	
Sag Vertical Curve	115
Crest Vertical Curve	114
DRAINAGE	
Calculation of Q	Rational Method for D.A. < 100 Acres TR-55 Method for D.A. 128 Acres > D.A. > 100 Acres Rural Regression for D.A. > 128 Acres
Cross Drains	
Flood Frequency	50 Year (100 Year Check)
Pipe Material	RCP
Minimum Freeboard	50 Year
Side Drains	
Flood Frequency	N/A
Pipe Material	N/A
Storm Drains	
Flood Frequency	N/A
Pipe Material	N/A
Pavement Spread	N/A
Minimum Pipe Size	18"
Minimum Cover	Not less than 12" measured from the bottom of the subgrade to the top of the outside face of the pipe.
INTERSECTIONS	
Stopping Sight Distance	495' for 55 mph
Design Vehicle	WB-67
NOTES:	Contact TDOT Hydraulics for Flow Rate for Bridge Design.

Bridge 49

GENERAL INFORMATION

Roadway Identification	SR 87 Bridge #49 over Branch (TMA)(LM 11.57) - Lauderdale Co.	
Roadway Limits	L.M. 11.45 TO 11.63	
Functional Classification	Rural Major Collector	
Design Speed	60 (45 Pending Design Exception approval)	
Design Year	2049	
Traffic Volume	370	
Level of Service	N/A	
Access Control	Full Access	
Design Units	English	
TYPICAL SECTION	See RD11-TS-2	
Travel Lanes		
Number of Lanes	2	
Lane Width	11	
Cross Slope	2%	
Max Superelevation	8%	
Shoulders		
Shoulder Width	4	
Cross Slope	4%	
Max Rollover	7%	
Median	N/A	
Width	N/A	
Slope	N/A	
Side Slopes		
Clear Zone Width	12'-14' Minimum	14'-18' Minimum
Slope Inside Clear Zone	6:1 or Flatter (Unprotected)	5:1 to 4:1 (Unprotected)
Slope Outside Clear Zone	2:1 Maximum	
HORIZONTAL ALIGNMENT		
Min Radius of Curve	1200' for 8%	

VERTICAL ALIGNMENT	See RD11-TS-2
Max Grade	
Ascending	6% (Level)
Descending	6% (Level)
Min Curvature (K)	
Sag Vertical Curve	151 (61 for 45 MPH)
Crest Vertical Curve	136 (79 for 45 MPH)
DRAINAGE	
Calculation of Q	Rational Method for D.A. < 100 Acres TR-55 Method for D.A. 128 Acres > D.A. > 100 Acres Rural Regression for D.A. > 128 Acres
Cross Drains	
Flood Frequency	50 Year (100 Year Check)
Pipe Material	RCP
Minimum Freeboard	50 Year
Side Drains	
Flood Frequency	N/A
Pipe Material	N/A
Storm Drains	
Flood Frequency	N/A
Pipe Material	N/A
Pavement Spread	N/A
Minimum Pipe Size	18"
Minimum Cover	Not less than 12" measured from the bottom of the subgrade to the top of the outside face of the pipe.
INTERSECTIONS	
Stopping Sight Distance	570' for 60 mph
Design Vehicle	WB-67
NOTES:	Contact TDOT Hydraulics for Flow Rate for Bridge Design.

GENERAL INFORMATION

Roadway Identification	SR 87 Bridge #49 over Branch (LM 11.57) - Lauderdale Co.	
Roadway Limits	L.M. 11.45 TO 11.63	
Functional Classification	Rural Major Collector	
Design Speed	60	
Design Year	2049	
Traffic Volume	860	
Level of Service	N/A	
Access Control	Full Access	
Design Units	English	
TYPICAL SECTION	See RD11-TS-2	
Travel Lanes		
Number of Lanes	2	
Lane Width	11	
Cross Slope	2%	
Max Superelevation	8%	
Shoulders		
Shoulder Width	4	
Cross Slope	4%	
Max Rollover	7%	
Median	N/A	
Width	N/A	
Slope	N/A	
Side Slopes		
Clear Zone Width	12'-14' Minimum	14'-18' Minimum
Slope Inside Clear Zone	6:1 or Flatter (Unprotected)	5:1 to 4:1 (Unprotected)
Slope Outside Clear Zone	2:1 Maximum	
HORIZONTAL ALIGNMENT		
Min Radius of Curve	1200' for 8%	

VERTICAL ALIGNMENT	See RD11-TS-2
Max Grade	
Ascending	6% (Level)
Descending	6% (Level)
Min Curvature (K)	
Sag Vertical Curve	151 (61 for 45 MPH)
Crest Vertical Curve	136 (79 for 45 MPH)
DRAINAGE	
Calculation of Q	Rational Method for D.A. < 100 Acres TR-55 Method for D.A. 128 Acres > D.A. > 100 Acres Rural Regression for D.A. > 128 Acres
Cross Drains	
Flood Frequency	50 Year (100 Year Check)
Pipe Material	RCP
Minimum Freeboard	50 Year
Side Drains	
Flood Frequency	N/A
Pipe Material	N/A
Storm Drains	
Flood Frequency	N/A
Pipe Material	N/A
Pavement Spread	N/A
Minimum Pipe Size	18"
Minimum Cover	Not less than 12" measured from the bottom of the subgrade to the top of the outside face of the pipe.
INTERSECTIONS	
Stopping Sight Distance	570' for 60 mph
Design Vehicle	WB-67
NOTES:	Contact TDOT Hydraulics for Flow Rate for Bridge Design.
Design Waiver at 45 MPH design speed allowed for vertical alignment only.	

Bridge 50

GENERAL INFORMATION

Roadway Identification	SR 67 Bridge #50 over Lagoon Creek (LM 19.11) - Lauderdale Co.	
Roadway Limits	L.M. 19.11 TO 19.21	
Functional Classification	Urban Major Collector	
Design Speed	55	
Design Year	2049	
Traffic Volume	2,100	
Level of Service	N/A	
Access Control	Full Access	
Design Units	English	
TYPICAL SECTION	See RD11-TS-2	
Travel Lanes		
Number of Lanes	2	
Lane Width	11	
Cross Slope	2%	
Max Superelevation	8%	
Shoulders		
Shoulder Width	4	
Cross Slope	4%	
Max Rollover	7%	
Median	N/A	
Width	N/A	
Slope	N/A	
Side Slopes		
Clear Zone Width	12'-14' Minimum	14'-18' Minimum
Slope Inside Clear Zone	6:1 or Flatter (Unprotected)	5:1 to 4:1 (Unprotected)
Slope Outside Clear Zone	2:1 Maximum	
HORIZONTAL ALIGNMENT		
Min Radius of Curve	960' for 8%	

VERTICAL ALIGNMENT	See RD11-TS-2
Max Grade	
Ascending	6% (Level)
Descending	6% (Level)
Min Curvature (K)	
Sag Vertical Curve	115
Crest Vertical Curve	114
DRAINAGE	
Calculation of Q	Rational Method for D.A. < 100 Acres TR-55 Method for D.A. 128 Acres > D.A. > 100 Acres Rural Regression for D.A. > 128 Acres
Cross Drains	
Flood Frequency	50 Year (100 Year Check)
Pipe Material	RCP
Minimum Freeboard	50 Year
Side Drains	
Flood Frequency	N/A
Pipe Material	N/A
Storm Drains	
Flood Frequency	N/A
Pipe Material	N/A
Pavement Spread	N/A
Minimum Pipe Size	18"
Minimum Cover	Not less than 12" measured from the bottom of the subgrade to the top of the outside face of the pipe.
INTERSECTIONS	
Stopping Sight Distance	495' for 55 mph
Design Vehicle	WB-67
NOTES:	Contact TDOT Hydraulics for Flow Rate for Bridge Design.

GENERAL INFORMATION

Roadway Identification	SR 87 Bridge #50 over Branch (LM 19.11) - Lauderdale Co.	
Roadway Limits	L.M. 19.11 TO 19.21	
Functional Classification	Urban Major Collector	
Design Speed	55	
Design Year	2049	
Traffic Volume	2,100	
Level of Service	N/A	
Access Control	Full Access	
Design Units	English	
TYPICAL SECTION	See RD11-TS-2	
Travel Lanes		
Number of Lanes	2	
Lane Width	11	
Cross Slope	2%	
Max Superelevation	8%	
Shoulders		
Shoulder Width	4	
Cross Slope	4%	
Max Rollover	7%	
Median	N/A	
Width	N/A	
Slope	N/A	
Side Slopes		
Clear Zone Width	12'-14' Minimum	14'-18' Minimum
Slope Inside Clear Zone	6:1 or Flatter (Unprotected)	5:1 to 4:1 (Unprotected)
Slope Outside Clear Zone	2:1 Maximum	
HORIZONTAL ALIGNMENT		
Min Radius of Curve	960' for 8%	

VERTICAL ALIGNMENT	See RD11-TS-2
Max Grade	
Ascending	6% (Level)
Descending	6% (Level)
Min Curvature (K)	
Sag Vertical Curve	115
Crest Vertical Curve	114
DRAINAGE	
Calculation of Q	Rational Method for D.A. < 100 Acres TR-55 Method for D.A. 128 Acres > D.A. > 100 Acres Rural Regression for D.A. > 128 Acres
Cross Drains	
Flood Frequency	50 Year (100 Year Check)
Pipe Material	RCP
Minimum Freeboard	50 Year
Side Drains	
Flood Frequency	N/A
Pipe Material	N/A
Storm Drains	
Flood Frequency	N/A
Pipe Material	N/A
Pavement Spread	N/A
Minimum Pipe Size	18"
Minimum Cover	Not less than 12" measured from the bottom of the subgrade to the top of the outside face of the pipe.
INTERSECTIONS	
Stopping Sight Distance	495' for 55 mph
Design Vehicle	WB-67
NOTES:	Contact TDOT Hydraulics for Flow Rate for Bridge Design
	Design Exception for lane width and shoulder width

Bridge 51

GENERAL INFORMATION

Roadway Identification	SR 371 Bridge #51 over Branch (TMA)(LM 1.39) - Lauderdale Co.	
Roadway Limits	L.M. 1.33 TO 1.42	
Functional Classification	Rural Major Collector	
Design Speed	55 (30 Pending Design Exception approval)	
Design Year	2049	
Traffic Volume	1,200	
Level of Service	N/A	
Access Control	Full Access	
Design Units	English	
TYPICAL SECTION	See RD11-TS-2	
Travel Lanes		
Number of Lanes	2	
Lane Width	11	
Cross Slope	2%	
Max Superelevation	8%	
Shoulders		
Shoulder Width	4	
Cross Slope	4%	
Max Rollover	7%	
Median	N/A	
Width	N/A	
Slope	N/A	
Side Slopes		
Clear Zone Width	12'-14' Minimum	14'-18' Minimum
Slope Inside Clear Zone	6:1 or Flatter (Unprotected)	5:1 to 4:1 (Unprotected)
Slope Outside Clear Zone	2:1 Maximum	
HORIZONTAL ALIGNMENT		
Min Radius of Curve	960' for 8%	

VERTICAL ALIGNMENT	See RD11-TS-2
Max Grade	
Ascending	6% (Level)
Descending	6% (Level)
Min Curvature (K)	
Sag Vertical Curve	115 (37 for 45 MPH)
Crest Vertical Curve	114 (19 for 45 MPH)
DRAINAGE	
Calculation of Q	Rational Method for D.A. < 100 Acres TR-55 Method for D.A. 128 Acres > D.A. > 100 Acres Rural Regression for D.A. > 128 Acres
Cross Drains	
Flood Frequency	50 Year (100 Year Check)
Pipe Material	RCP
Minimum Freeboard	50 Year
Side Drains	
Flood Frequency	N/A
Pipe Material	N/A
Storm Drains	
Flood Frequency	N/A
Pipe Material	N/A
Pavement Spread	N/A
Minimum Pipe Size	18"
Minimum Cover	Not less than 12" measured from the bottom of the subgrade to the top of the outside face of the pipe.
INTERSECTIONS	
Stopping Sight Distance	495' for 55 mph
Design Vehicle	WB-67
NOTES:	Contact TDOT Hydraulics for Flow Rate for Bridge Design.

GENERAL INFORMATION

SR 371 Bridge #51 over Branch (LM 1.39) - Lauderdale Co.		
Roadway Identification		
Roadway Limits	L.M. 1.33 TO 1.42	
Functional Classification	Rural Major Collector	
Design Speed	55	
Design Year	2049	
Traffic Volume	1,200	
Level of Service	N/A	
Access Control	Full Access	
Design Units	English	
TYPICAL SECTION	See RD11-TS-2	
Travel Lanes		
Number of Lanes	2	
Lane Width	11	
Cross Slope	2%	
Max Superelevation	8%	
Shoulders		
Shoulder Width	4	
Cross Slope	4%	
Max Rollover	7%	
Median	N/A	
Width	N/A	
Slope	N/A	
Side Slopes		
Clear Zone Width	12'-14' Minimum	14'-18' Minimum
Slope Inside Clear Zone	6:1 or Flatter (Unprotected)	5:1 to 4:1 (Unprotected)
Slope Outside Clear Zone	2:1 Maximum	
HORIZONTAL ALIGNMENT		
Min Radius of Curve	960' for 8%	

VERTICAL ALIGNMENT

Max Grade	
Ascending	6% (Level)
Descending	6% (Level)
Min Curvature (K)	
Sag Vertical Curve	115 (37 for 45 MPH)
Crest Vertical Curve	114 (19 for 45 MPH)
DRAINAGE	
Calculation of Q	Rational Method for D.A. < 100 Acres TR-55 Method for D.A. 128 Acres > D.A. > 100 Acres Rural Regression for D.A. > 128 Acres
Cross Drains	
Flood Frequency	50 Year (100 Year Check)
Pipe Material	RCP
Minimum Freeboard	50 Year
Side Drains	
Flood Frequency	N/A
Pipe Material	N/A
Storm Drains	
Flood Frequency	N/A
Pipe Material	N/A
Pavement Spread	N/A
Minimum Pipe Size	18"
Minimum Cover	Not less than 12" measured from the bottom of the subgrade to the top of the outside face of the pipe.
INTERSECTIONS	
Stopping Sight Distance	495' for 55 mph
Design Vehicle	WB-67
NOTES:	Contact TDOT Hydraulics for Flow Rate for Bridge Design.
	Design Waiver at 30 MPH design speed allowed for vertical alignment only.