

**Elm Bend Road (SR 1543)**  
from US 276 to Wilson Road (SR 1504)

Local ID: TRAN0034-H  
Purpose: Facility Deficiencies  
Improvement: Improve Existing

**Identified Need**

Elm Bend Road (SR 1543) has no paved shoulder and lane widths of 9 feet. The crossing of the French Broad River has been closed due to flooding on multiple occasions.

**Recommendation**

Improve alignment, lane widths, and shoulders to current design standards, including 5-foot paved shoulders. Improve Resiliency to flooding from the French Broad River.



	Local ID #	Improve	New Location		Local ID #	Improve	New Location
Congestion / Mobility	#	—	—	Interchange	⊙	□	■
Access Management / Operations	#	—	—	Bridge / Overpass	⊙	○	●
Modernization	#	—	—	Intersection	⊙	∟	△
Other	#	—	—				

**Proposal At A Glance**

Highway Class	Other
Facility Type	Minor Thoroughfare
Typical Section	02 E
Section Options	-
Length (miles)	1.34
Existing ROW (feet)	60
Safety Risk Score	-

**Proposal Data:** 2017 Base Year 2045 Future Year

Improved Route	Existing	Without Proposal	With Proposal
Facility Type	Minor Thoroughfare	-	Minor Thoroughfare
Travel Lanes	2	2	2
Volume (vpd)	2200-3200	3300-4600	-
Capacity (vpd)	10200	10200	10200

**Capacity Data:** Year

Facility will be Approaching Capacity (>80%)	-
Facility will be Over Capacity (>=100%)	-

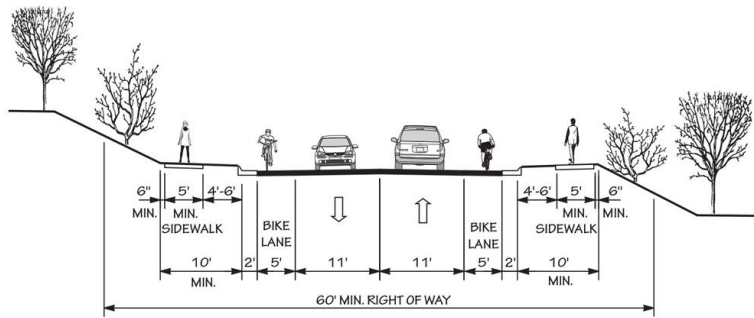


**Typical Section Options:**

None

# TYPICAL SECTION No. 2E

2 LANE UNDIVIDED WITH CURB & GUTTER, BIKE LANES, AND SIDEWALKS



POSTED SPEED 25-45 MPH

## Project Overview

### Linkage to Other Plans

This facility is classified as a major collector on the Federal Functional Classification System.

### Multi-Modal Considerations

Transylvania County Transit, under the name "Transylvania in Motion" operates a fixed route as well as demand response system within the county. The deviated-fixed route does not reach this facility; however, it is within the demand-response area.

Bike Lanes are recommended along this facility from US 276 to Wilson Road (SR 1504) in concurrence with the Transylvania County Bicycle Plan (2019). As per the City of Brevard Comprehensive Pedestrian Plan (2006/2018), sidewalks are recommended along this facility from US 276 to the Brevard City Limits. This includes service to the Brevard Elementary School.

### Goals & Objectives Survey

The citizens of Transylvania County responded to a public survey in early 2019 with a great deal of support for new greenways, sidewalks, and multi-use paths. When asked for their top three most important project types, these categories ranked first, third and fifth, out of a dozen choices. Rounding out the top five were maintenance and safety projects at second and fourth respectfully. When asked to rank transportation goals, the respondents gave two, preservation of the natural beauty and community character and increasing the number transportation mode choices, substantial net positive scores; improved connectivity, and economic development about neutral; and improved travel time was poorly scored, receiving over 50% of the lowest rank.

### Natural & Human Environmental Context

Based on planning level environmental assessment using available GIS data, the proposed project intersects the French Broad River local watershed. The project is in proximity of one place of worship, the historic William H. Grogan House, and the East Main Street Historic District. From the French Broad River east, Elm Bend Rd is in the 100-year floodplain.

This project is within 150 feet of:

- National Historical Register or Eligible Properties
- Targeted Local Watershed(s)
- Water Distribution System Pipes
- Sewer System Pipes
- Multiple Geology Types

### Title VI

This recommendation passes through one or more Census Blocks with the following characteristics:

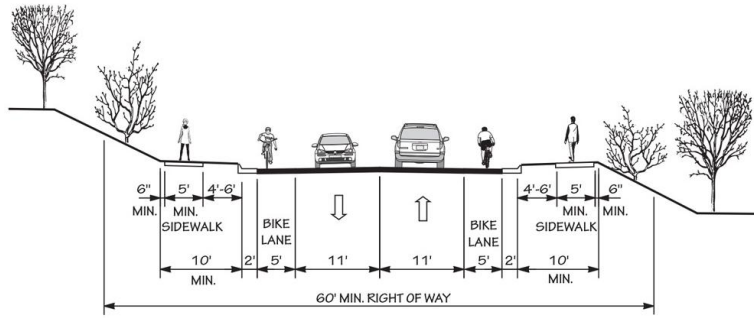
- Between 0% and 25% identify as African American
- Between 25% and 50% identify as 65+
- Between 0% and 5% identify as Asian
- Between 0% and 1% identify as Hawaiian or Pacific Islander
- Between 1% and 5% identify as Hispanic and Latino
- 0% identify as Over 18 w/ Limited English Proficiency (LEP) - Asian and Pacific Islander
- 0% identify as Over 18 w/ Limited English Proficiency (LEP) - Indo-European
- 0% identify as Over 18 w/ Limited English Proficiency (LEP) - Other

Typical Section Options:

# TYPICAL SECTION No. 2E

None

## 2 LANE UNDIVIDED WITH CURB & GUTTER, BIKE LANES, AND SIDEWALKS



POSTED SPEED 25-45 MPH

- Between 0% and 5% identify as Over 18 w/ Limited English Proficiency (LEP) - Spanish
- 0% identify as Native American
- Between 15% and 25% identify as Below Poverty Line
- 0% identify as Some Other Race
- 0% identify as Two of More Races
- Between 0% and 15% identify as Households with No Car