WELCOME
OPEN HOUSE
US Highway 83 Alternative Study
Introductions

Matt Pacyna, PE
Jennifer Quayle
Scott Harmstead, AICP
Study Overview

Overview

The Bismarck-Mandan Metropolitan Planning Organization is completing a US Highway 83 Alternative Study in cooperation with the City of Bismarck, Burleigh County, and the NDDOT.

The purpose of the study is to:

• Identify, evaluate and develop viable highway alternatives along US Highway 83 north of Bismarck to best serve existing and future stakeholders within the region.

• Analyze potential new routes for regional traffic and identify operational improvements for the state street corridor

• Analyze anticipated outcomes of the US Highway 83 realignment on Bismarck and Burleigh County.

The Study is being conducted from October 2017 to November 2018.
Traffic Volumes

Existing Average and Heavy Commercial Daily Traffic

Key Highlights

- US Highway 83 daily traffic volumes range from approximately 10,000 to 43,000 vehicles per day.
- During the a.m., approximately two thirds of the traffic is heading southbound on US Highway 83.
- During the p.m., approximately 60% of the traffic is heading northbound on US Highway 83.
- Historically, average daily traffic volumes have grown approximately 3 to 4% per year.
Traffic Operations

A.M. Peak Hour (7:15 to 8:15)

Midday Peak Hour (12:00 to 1:00)

P.M. Peak Hour (4:30 to 5:30)

Key Highlights

- All intersections operate at LOS D or better.
- The majority of intersections operate at LOS C or better.
- There are individual movements or approaches that operate at LOS E or F during peak periods within the study area.
- Corridor travel times along US Highway 83 (between I-94 and 71st Avenue) vary between 5 minutes and 8 minutes, depending on the direction and time of day.
Crash History

Key Highlights

• Crashes along US Highway 83 occur throughout the day in proportion to the hourly traffic volumes.

• Crashes peak between 12 p.m. and 6 p.m. along the corridor.

• Crashes along US Highway 83 have been increasing proportionally to the average daily traffic volume.

• Intersections with higher crash frequency are located in the southern portion of the corridor, where traffic volumes are higher.

US Highway 83 Crashes by Time of Day*

*All crashes are along US Highway 83 from I-94 to 71st Avenue.
Travel Patterns

Key Highlights

- Approximately 33% of all trips (36% of heavy commercial vehicles) from US Highway 83 (north of 71st Avenue) are destined to areas south of I-94.

- 16% of all trips (29% of heavy commercial vehicles) from US Highway 83 (north of 71st Avenue) are destined to I-94 (east or west).

- 63% of all westbound I-94 vehicles (63% of heavy commercial vehicles) exiting at Centennial Road or US Highway 83 are destined to the south of I-94.

- Approximately 5% of all westbound I-94 trips (15% of heavy commercial vehicles) exiting at Centennial Road or US Highway 83 are destined to US Highway 83 north of 71st Avenue.
Next Steps

We Want Your Feedback!

Please provide comments on current issues along US Highway 83, as well as any feedback with respect to an alternative US Highway 83 alignment.

Next Steps

• Review and Incorporate Feedback
• Develop Future Traffic Forecasts
• Evaluate Future Corridor Options
• Develop and Evaluate Viable US Highway 83 Alternatives
• Open House #2 Expected May 2018
Be Involved

Visit the study website to share your input, learn about upcoming meetings, review materials: hwy83altstudy.com

Can’t attend an in-person meeting? Leave your input by calling: (701) 595-0526