

# ***Davison County***

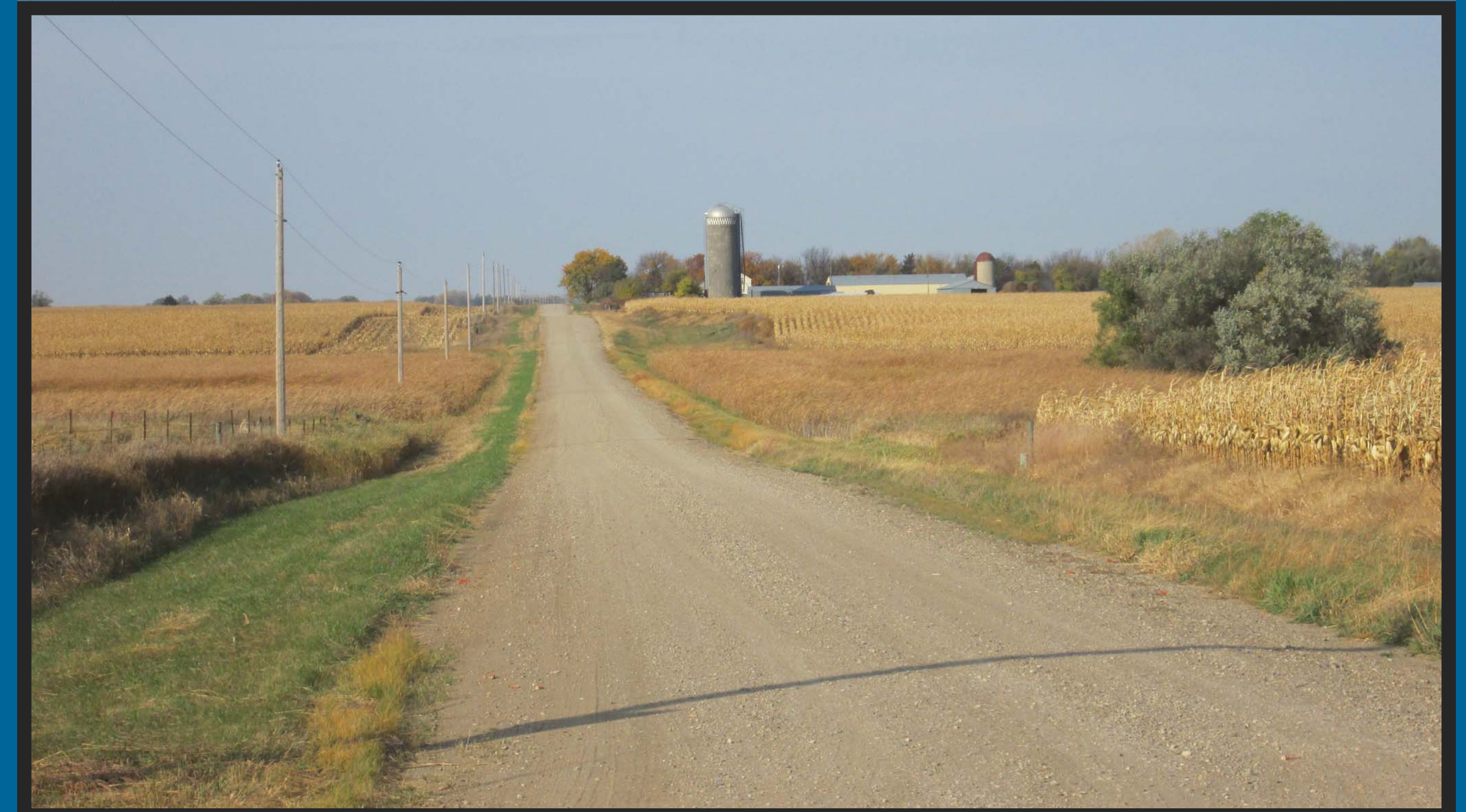
## **MASTER TRANSPORTATION PLAN**

### **Public Open House**

**Welcome**

*Presentation at 5:45 pm*

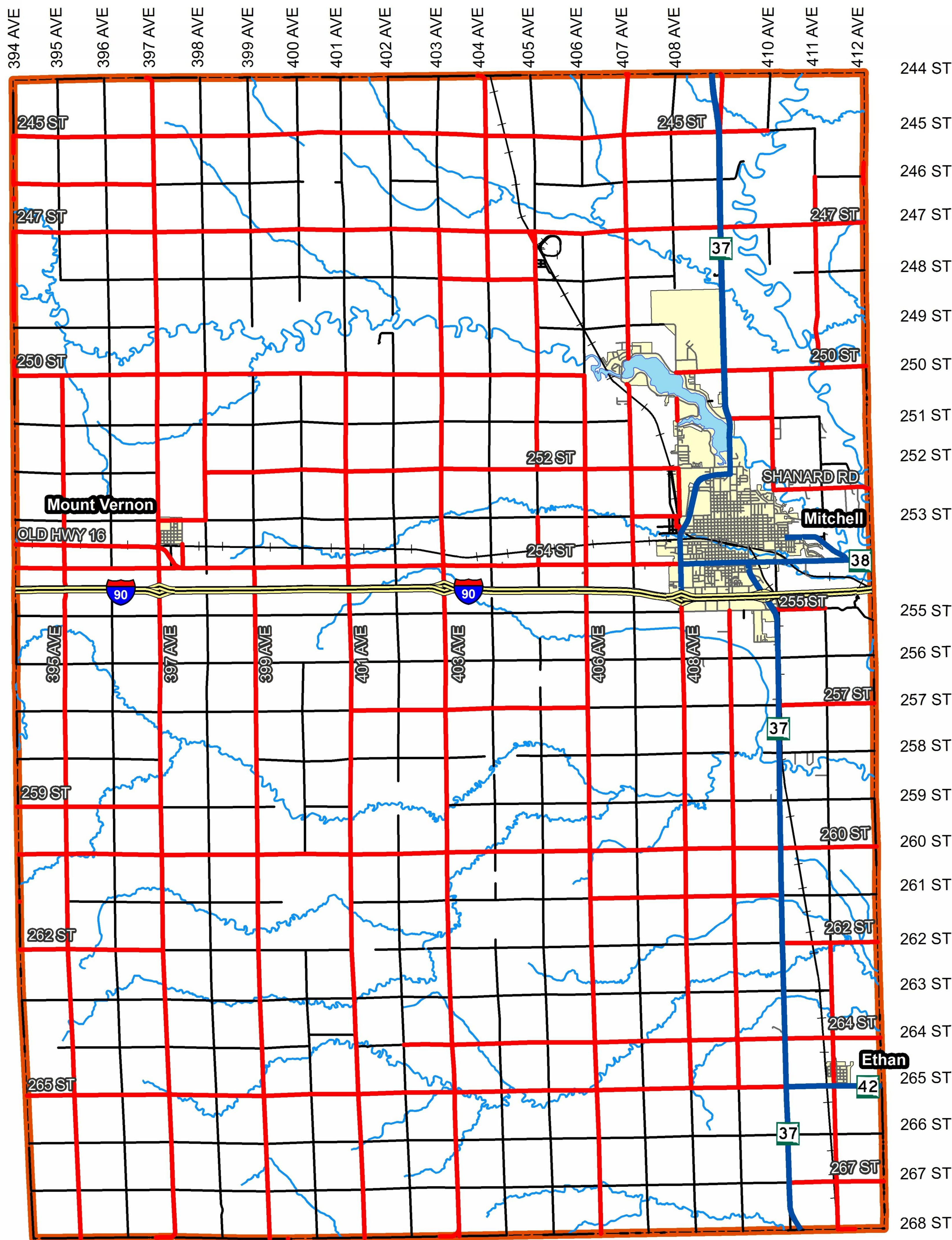
Please Sign-in at the Registration Table



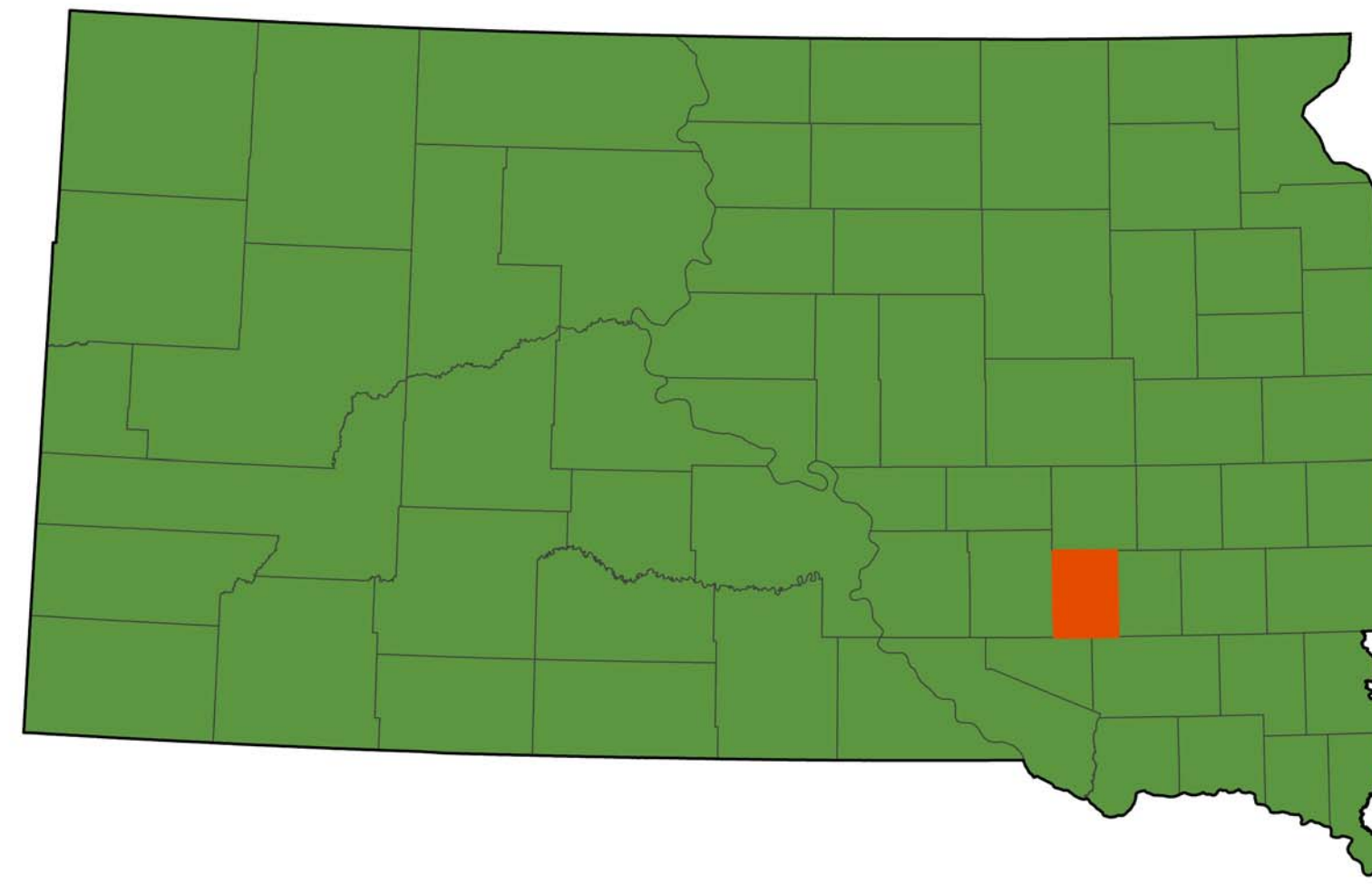
**Davison County**  
**Mitchell, South Dakota**







# Study Location

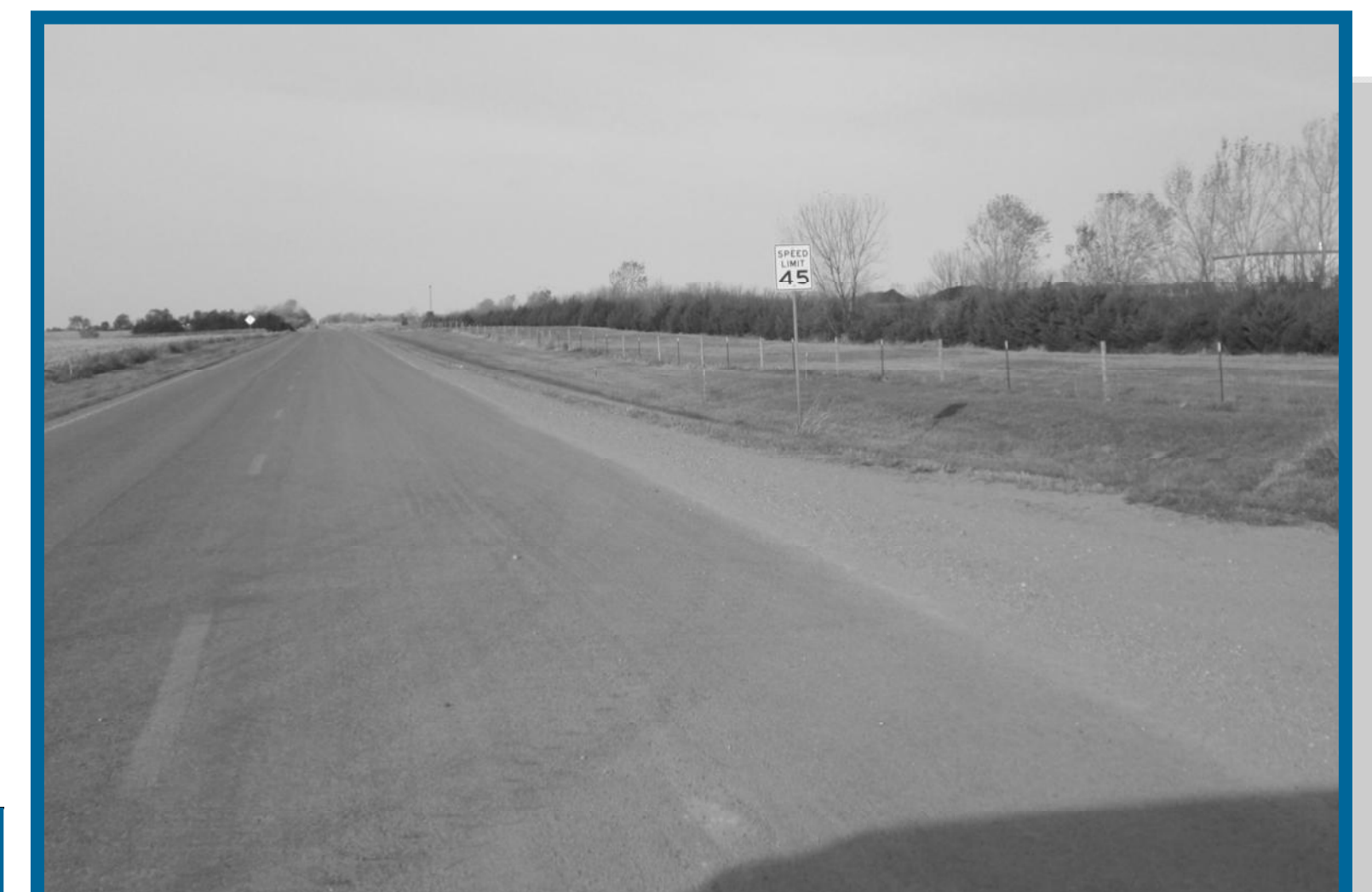


The Study Area for the Davison County Master Transportation Plan encompasses the entire County including the incorporated and unincorporated cities and townships of Davison County, South Dakota.

The Study includes all roadways within Davison County, primarily focusing on the County Highway System. The Study evaluates multimodal—pedestrian, bicycles, transit, freight, and air travel—needs within Davison County.

The map (left) illustrates the boundaries of the Study Area and highlights the County Highway System.

The Davison County Master Transportation Plan evaluates roadways within Davison County, like the one pictured here, to determine improvements that would make the transportation network more safe and efficient to increase accessibility and connectivity. →



## Legend

- Interstate
- State Highways
- County Roads
- Township Roads
- Rail Lines
- Rivers & Streams
- Cities
- Study Area (Davison County)







Evaluating the safety, capacity, and multimodal needs of roadways within Davison County will guide decision makers as they implement future transportation projects. The Davison County Master Transportation Plan recommends improvements to county roadways, like the one above, so that the future transportation system will meet the needs of all users in Davison County.

# Purpose & Goals

The purpose of the Study is to examine the Davison County transportation network and develop potential solutions to address safety, capacity, and multimodal needs.

When complete, the plan will guide elected and appointed officials, developers, and residents as Davison County continues to expand economic and residential opportunities over the next 20 years.

The plan also evaluates available funding options to implement future transportation projects, maintenance, and preservation of existing assets throughout Davison County.

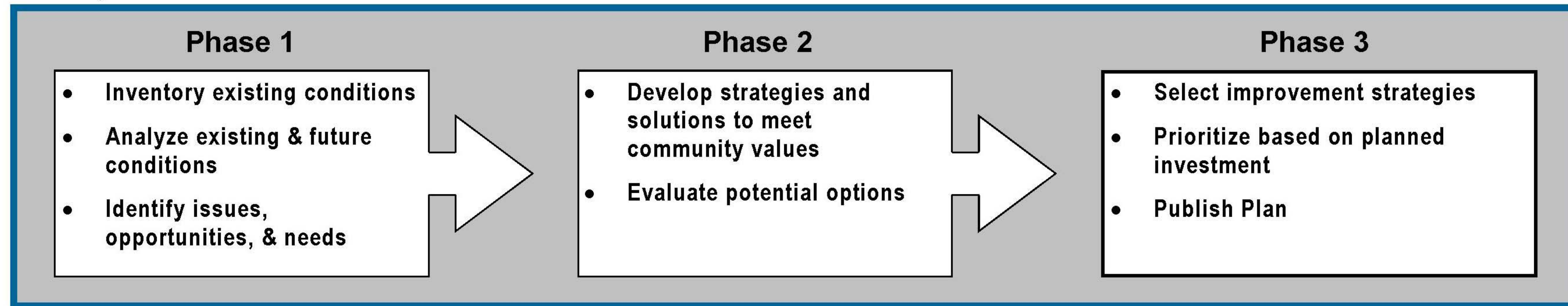
## Goals

- 1) Identify transportation issues and needs Davison County.
- 2) Develop feasible solutions to address issues and needs that:
  - meet current design standards and/or traffic level of service
  - promote a livable community
- 3) Create final products for use by Davison County and the SDDOT which will provide guidance to implement recommended improvements and react to future development plans within the area.

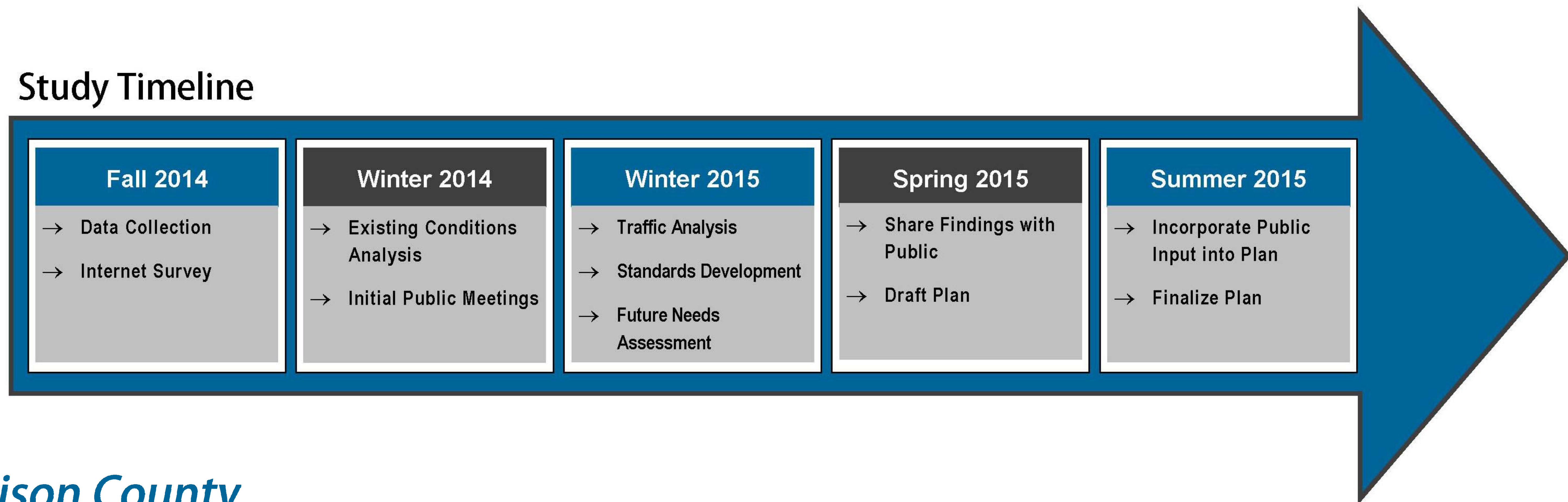


# Study Process & Timeline

## Study Process



## Study Timeline





# Public Participation Summary

Public participation for the Davison County Master Transportation Plan provided input on the existing conditions, issues, and needs of the Davison County transportation network through a public information meeting and transportation needs survey.

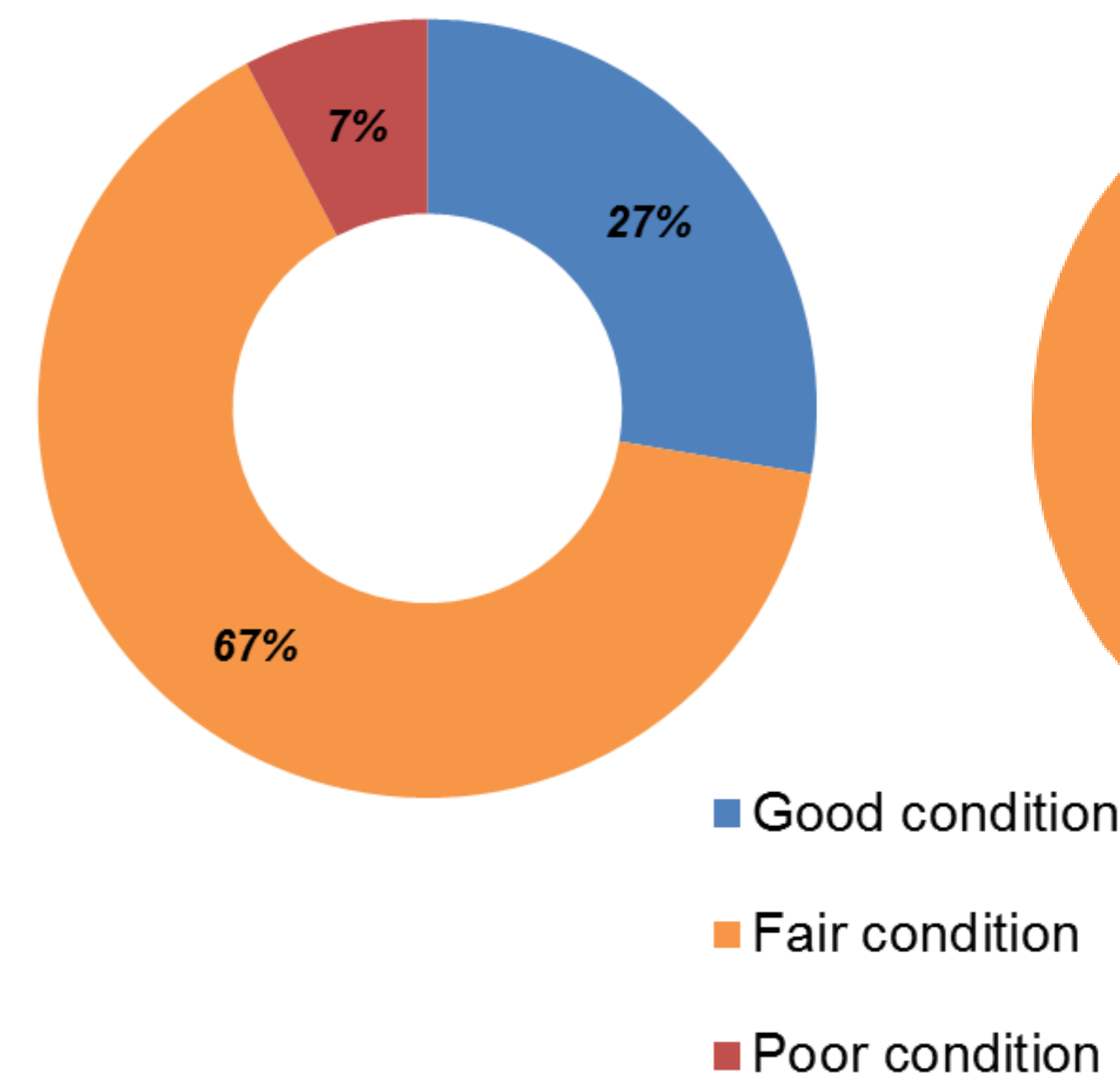
## The following issues and concerns were noted by stakeholders throughout the meetings:

- Lack of funding for bridge and roadway improvements.
- Event traffic congestion and management along Spruce Street related to the sale barn and Dakotafest.
- Bicycle and pedestrian issues along Shanard Road, across I-90, along Ohlman Street and SD 37, and safe routes near schools.
- 250th Street functioning as bypass north of the City of Mitchell.
- Vehicle safety (crashes) at the intersection of SD 37/ Minnesota Street and SD 37/8th Avenue.
- Increased train traffic throughout Davison County creating roadway access and safety issues.
- Bridge conditions and ability of handle loads from heavy trucks.
- Need for railroad crossing lights at County and township roads.

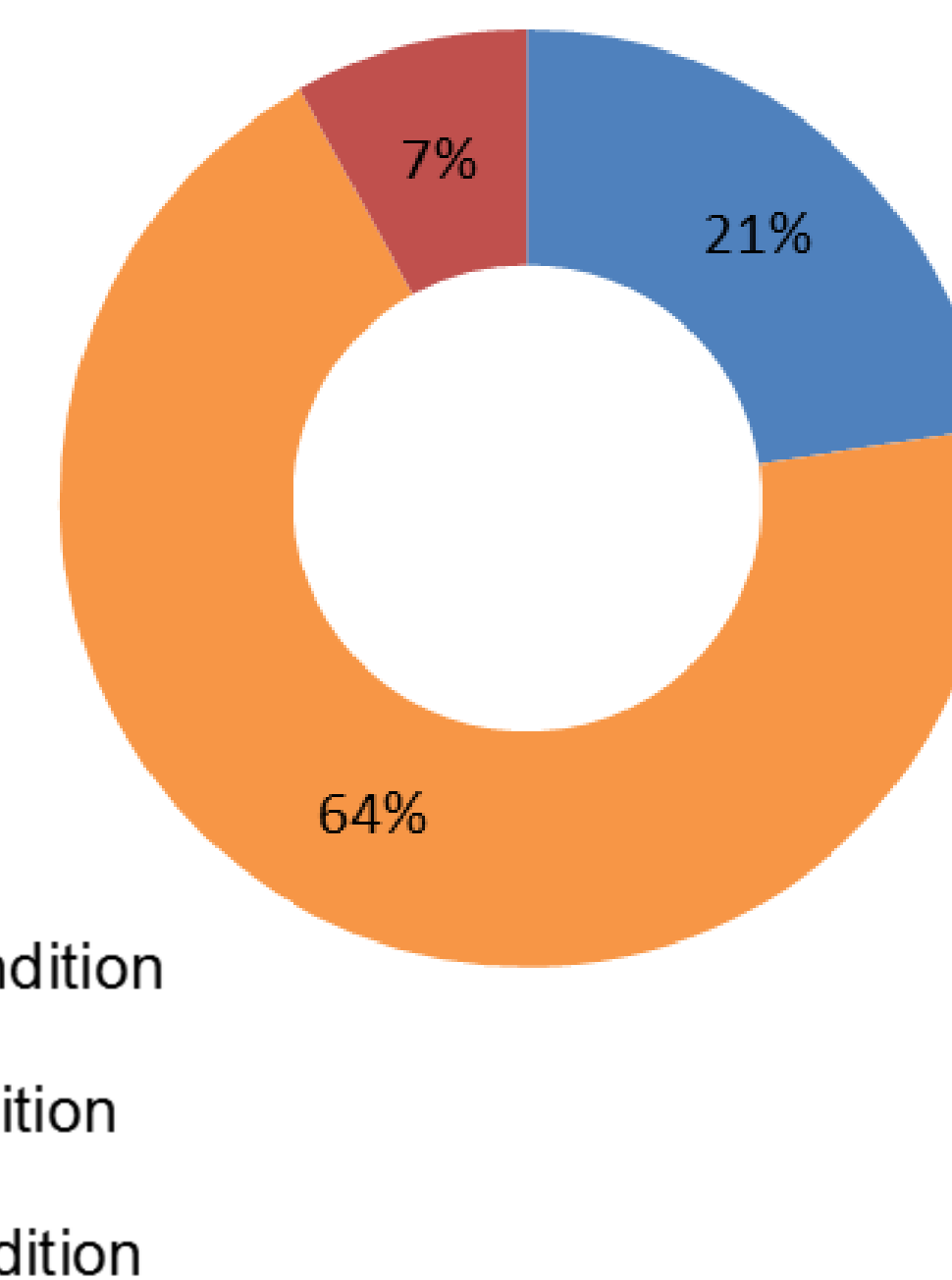
## Additional issues identified during the Public Information Meeting include:

- Bridge condition, weight restrictions, and functionality with current road user equipment
- Traffic congestion in and around the City of Mitchell
- The use of County roadways as “bypass” routes around the City of Mitchell
- Pavement conditions throughout the County
- Intersection and roadway safety

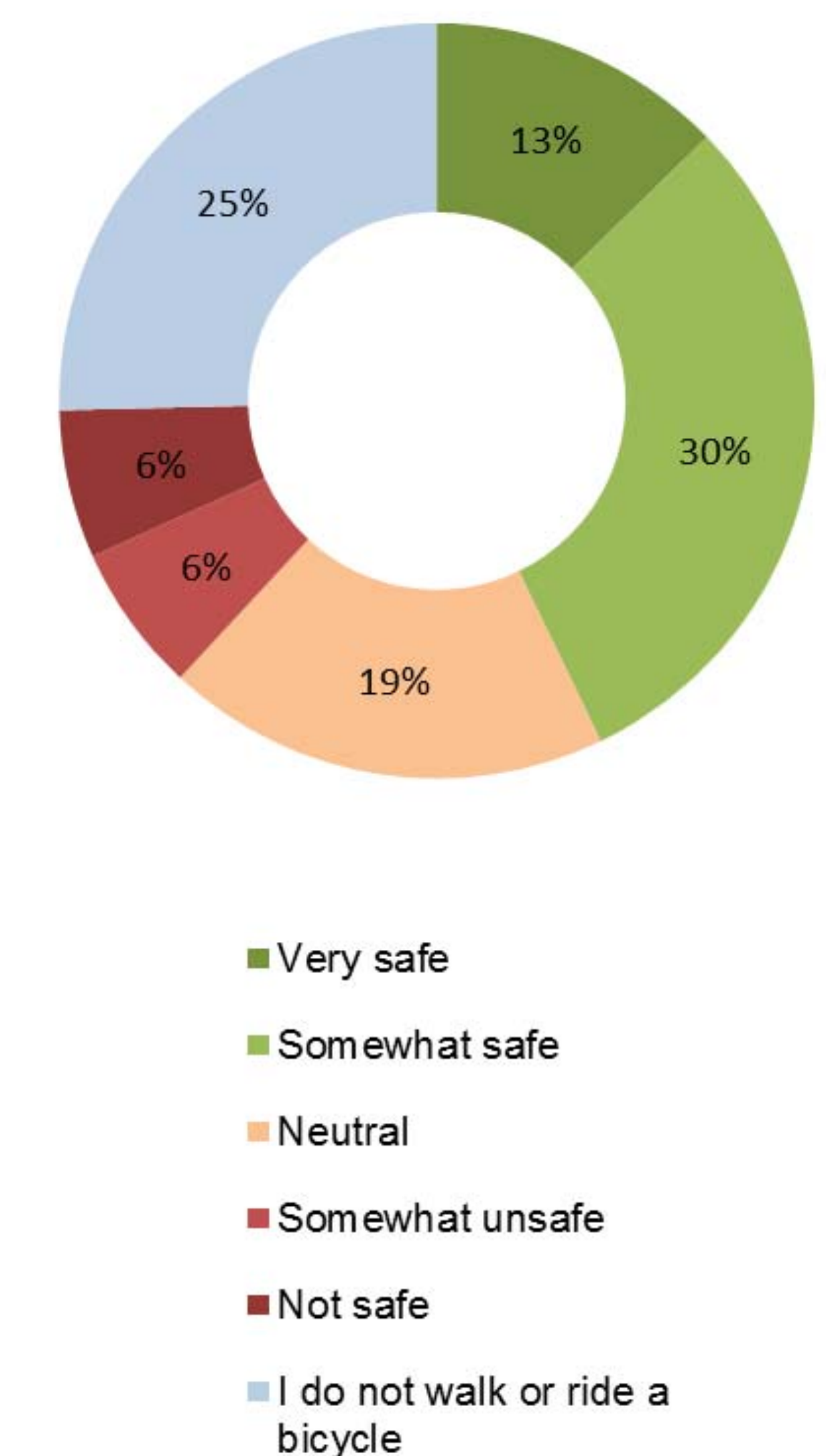
Paved Roadway Conditions:  
Percent of Respondents by  
Condition



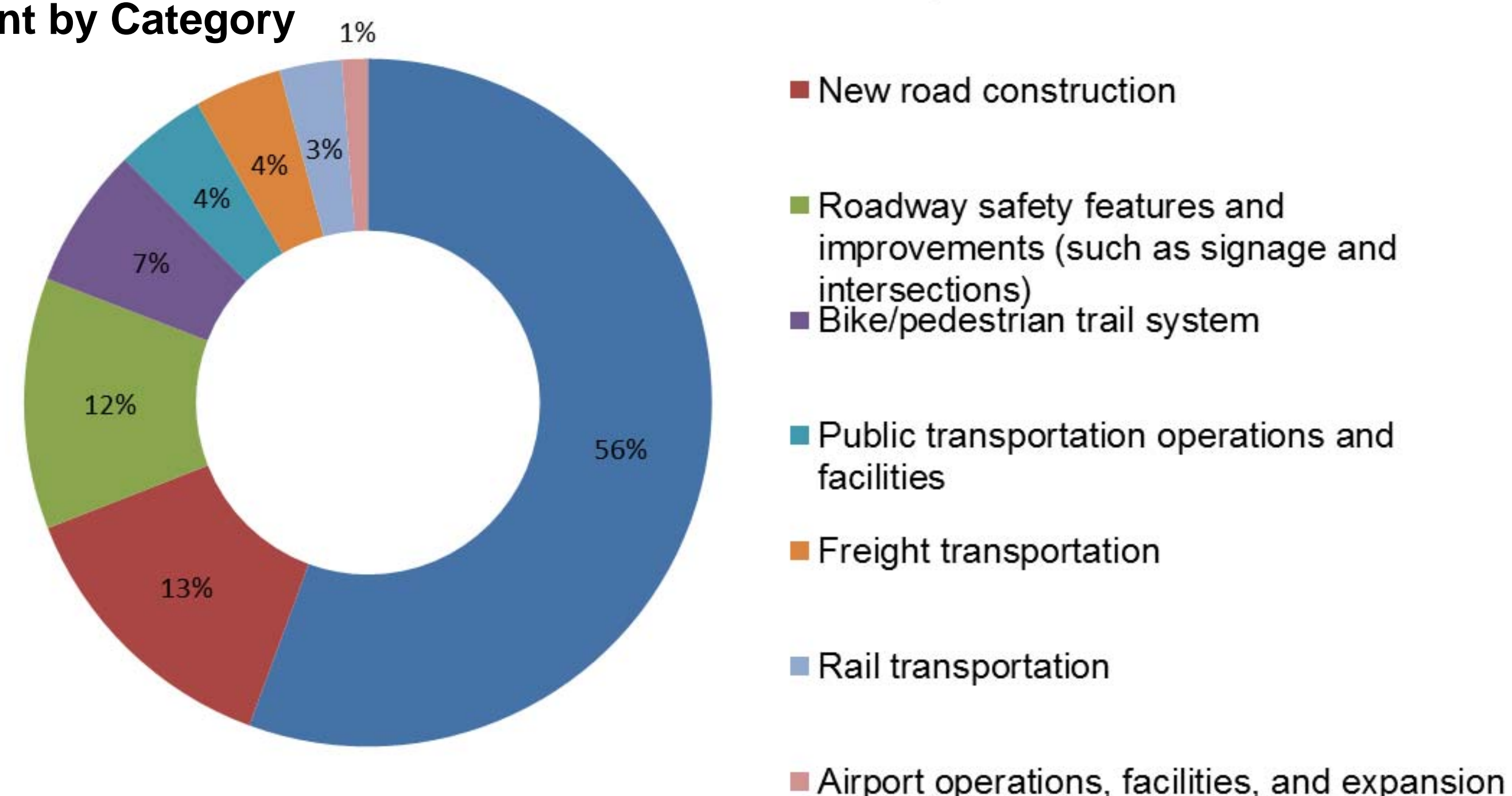
Gravel Roadway Conditions:  
Percent of Respondents by  
Condition



Pedestrian & Bicyclist Comfort  
Level: Percent of Respondents  
by Category

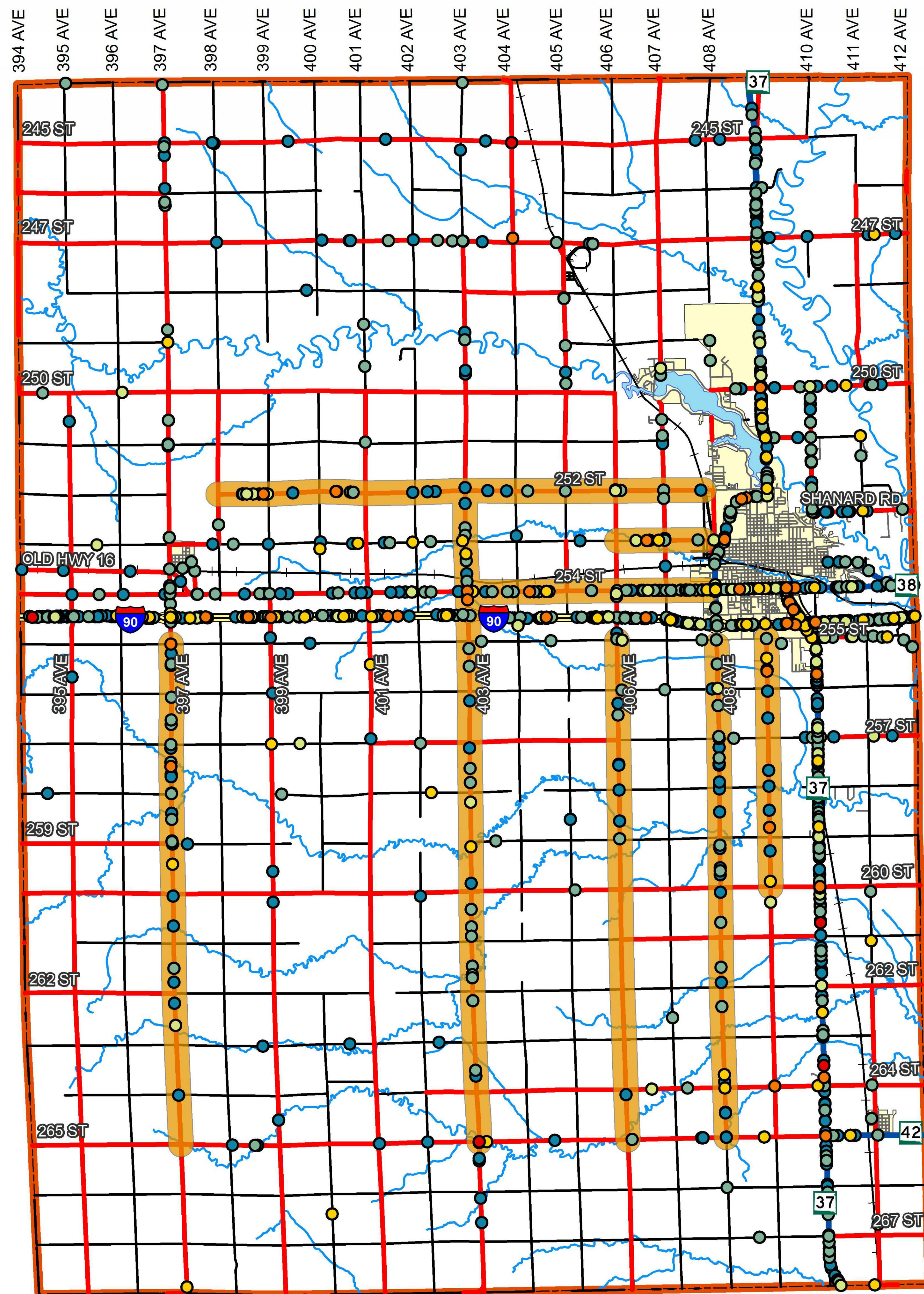


Future Transportation Budget  
Allocation: Percent of Total  
Amount by Category



**49%** of survey respondents were in favor of fee increases to support transportation improvements.





# Transportation Safety

The safety of the transportation network is a primary concern for Federal, State, and Local transportation departments. Maintaining safe routes for all modes of travel improves overall system mobility. In Davison County, locations where safety is a concern were determined by identifying roadway segments and intersections with numerous crashes during a certain timeframe. Between 2009 and 2013, there were 1,444 crashes on roadways within Davison County—including 5 fatal injury crashes.

The Plan identifies 16 intersections and 11 corridors on the County Road System where crashes occur frequently. Identified projects include roadway safety audits, the addition of shoulders, and roadside and intersection improvements as corridors are maintained to improve the overall safety of roadway users in Davison County.

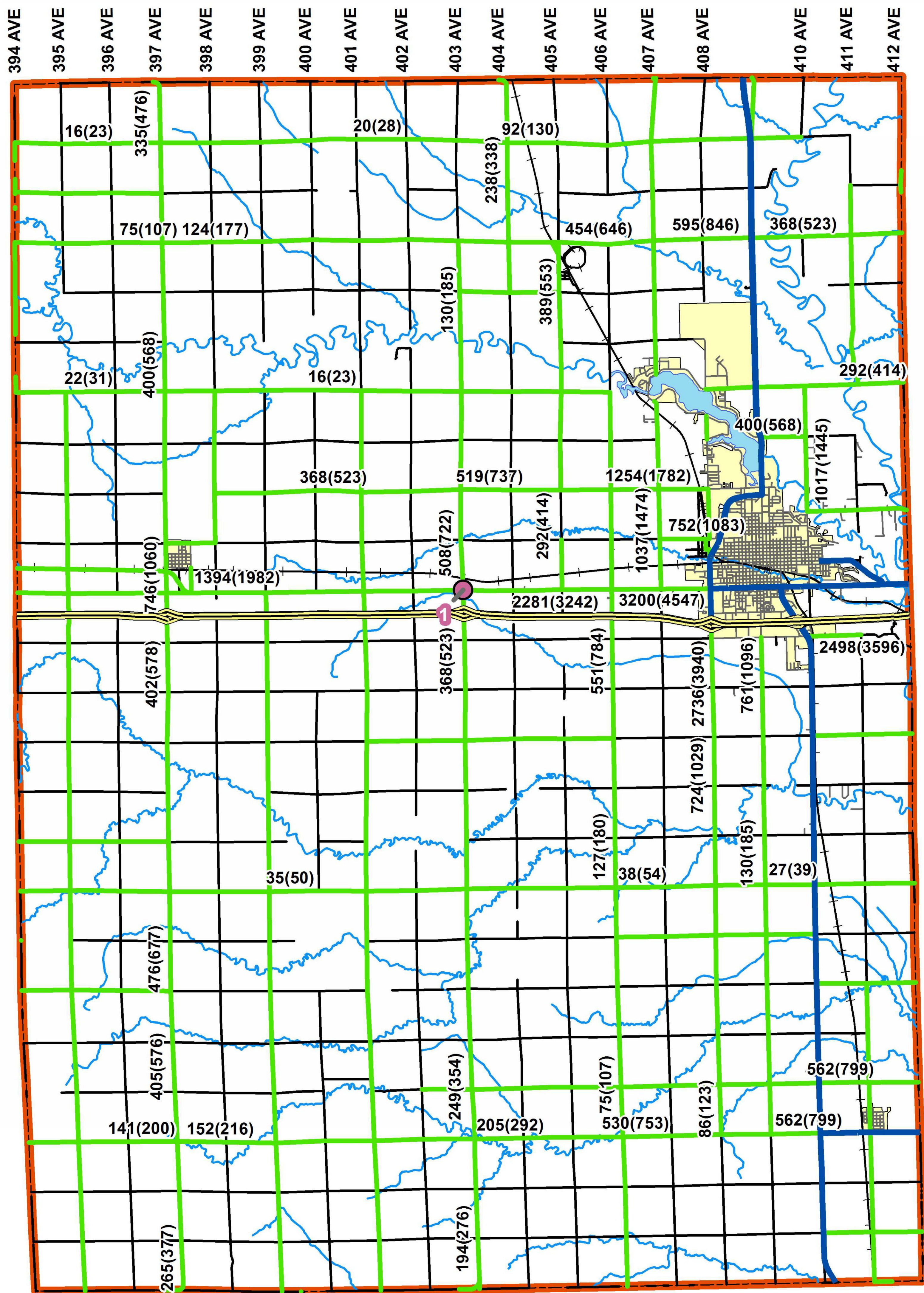
Corridors within Davison County were identified to analyze crash rates, shown on map (left). The majority of crashes reported along these corridors were vehicle-animal crashes.

North-South County Corridors		Miles	Total Crashes	Crash Rate (Crashes/HMVMT)
Roadway Corridor	Limits			
397 <sup>th</sup> Avenue	255 <sup>th</sup> St to 265 <sup>th</sup> St	10	29	391
403 <sup>rd</sup> Avenue	252 <sup>th</sup> St to 255 <sup>th</sup> St	3	8	329
403 <sup>rd</sup> Avenue	255 <sup>th</sup> St to 265 <sup>th</sup> St	10	18	349
406 <sup>th</sup> Avenue	255 <sup>th</sup> St to 265 <sup>th</sup> St	10	11	231
408 <sup>th</sup> Avenue	255 <sup>th</sup> St to 265 <sup>th</sup> St	10	28	175
409 <sup>th</sup> Avenue	255 <sup>th</sup> St to 260 <sup>th</sup> St	5	12	272

East-West County Corridors		Miles	Total Crashes	Crash Rate (Crashes/HMVMT)
Roadway Corridor	Limits			
252 <sup>nd</sup> Street	398 <sup>th</sup> Ave to 408 <sup>th</sup> Ave	10	26	234
253 <sup>rd</sup> Street	406 <sup>th</sup> Ave to 408 <sup>th</sup> Ave	2	7	267
254 <sup>th</sup> Street	403 <sup>rd</sup> Ave to Mitchell Limits	5	44	197
Sub-corridor:	406 <sup>th</sup> Ave to Mitchell Limits	2	26	242
Spruce Street	East of SD 37 to Dakotafest Drive	1.15	10	200

Corridors identified for crash analysis are listed above with the corridor crash rate per hundred million vehicle miles traveled (HMVMT).





# Existing & Forecasted Traffic

The Davison County Master Transportation Plan evaluates existing (2015) and planning year (2035) traffic volumes on County Roadways to determine where traffic demand is greatest and where improvements may be required to accommodate future traffic volumes

Existing and planning year traffic volumes suggest the roadways with the most traffic are those in and around the City of Mitchell. Other locations with higher volumes of traffic include 397th Avenue, 247th Street (near the ethanol plant), and 265th Street.

Overall, county roadways operate at below 60 percent of existing capacity and will continue to operate below 60 percent of capacity in the planning year (2035), as shown by the green roadway segments on the map (left).



← Traffic volumes along Spruce Street east of SD 37 are among the highest along a county roadway. Spruce Street generally operates below capacity, but congestion exists due to peak period traffic, event traffic, and other off-peak traffic generators. The County will continue to evaluate opportunities to improve safety, congestion, and connectivity over the planning horizon.

← This map (left) shows the existing (2015) and future (2035) traffic volumes, as well as, volume to capacity ratios on county roadways.



# Thank You!

## Next Steps

- Incorporate Public Input into Plan
- Finalize Davison County Master Transportation Plan
- Publish Davison County Master Transportation Plan



## Contact Us

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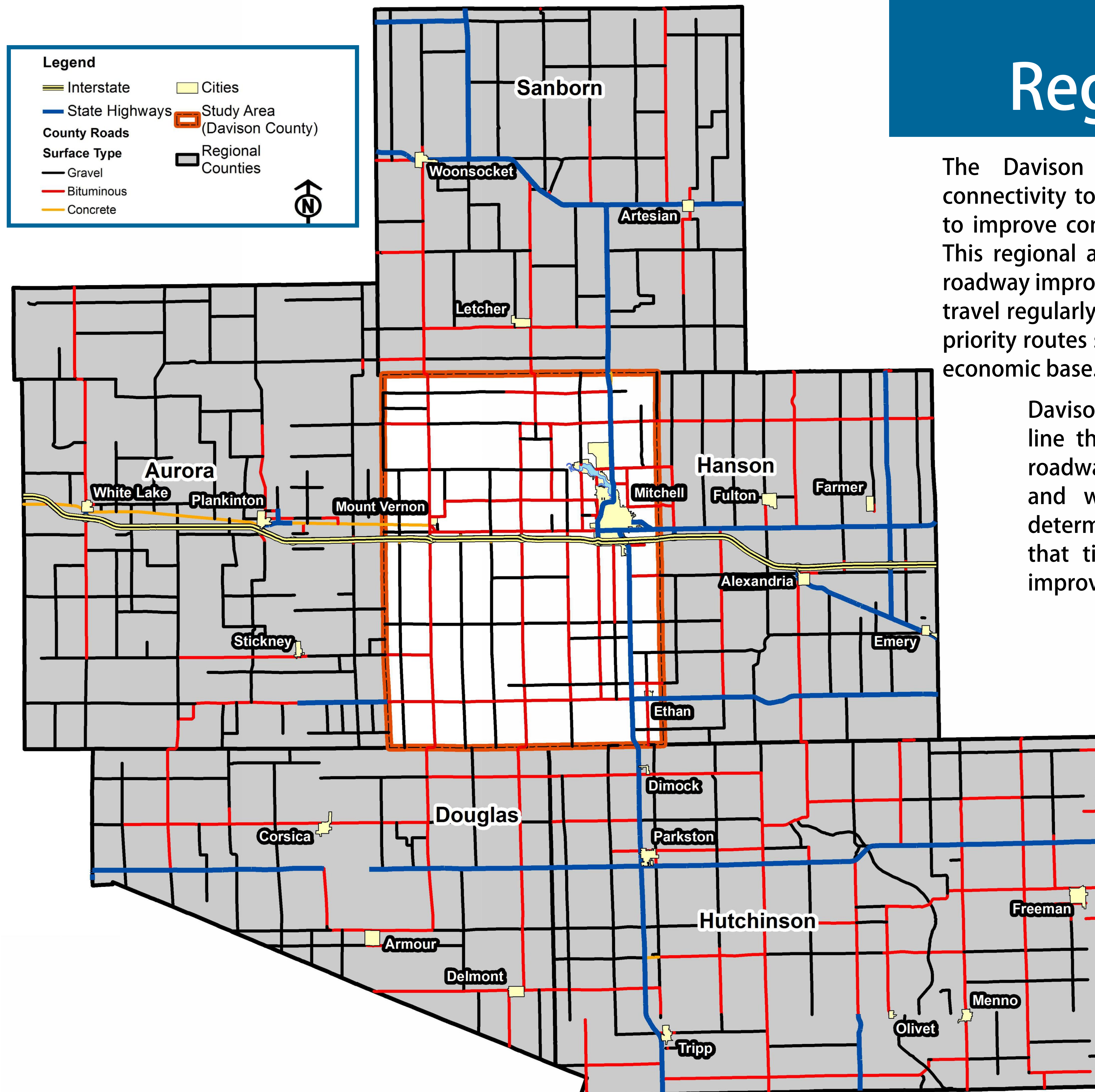
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# Regional Connectivity

The Davison County Master Transportation Plan examines regional connectivity to determine roadway improvements that may be implemented to improve consistency between roadways beyond the Davison County line. This regional approach to connectivity enables the Study Team to evaluate roadway improvements that may impact residents in the six-county region that travel regularly to and from Davison County. Maintaining regional corridors as priority routes supports regional economic growth as well as Davison County's economic base.

Davison County maintains several paved roadways to the county line that do not remain paved beyond Davison County. These roadways have been identified as candidates for surface changes and will be evaluated during future maintenance cycles to determine the appropriate surface type based on existing needs at that time, including: traffic volumes, adjacent county roadway improvements, and funding availability.



As 264th Street crosses 412th Avenue into Hanson County (looking east), the roadway surface changes from paved to gravel.