

# Study Goals and Objectives

- Determine how Hwy. 50 traffic would operate with a roundabout at 185<sup>th</sup> St., including the influence on gaps downstream of the roundabout that would allow side street traffic to enter the highway
- Develop Short-term and Long-term Corridor Improvement Needs including intersection traffic control, access, and local street connections

## Study Schedule

	Nov. 2012	Dec. 2012	Jan. 2013	Feb. 2013	Mar. 2013	Apr. 2013	May 2013
<b>1. Data Collection/Review</b>	[Orange bar]						
<b>2. Corridor Concepts</b>							
• Model		[Orange bar]					
• Conceptual Development		[Orange bar]					
• Report					[Draft]	[Review]	[Final]
<b>3. Public Involvement</b>							
• Resid. & Business Meetings	[Dot]						
• Open House					[Dot]		
<b>4. Project Team Mtgs.</b>		[Dot]	[Dot]	[Dot]	[Dot]	[Dot]	[Dot]

03/15/2012



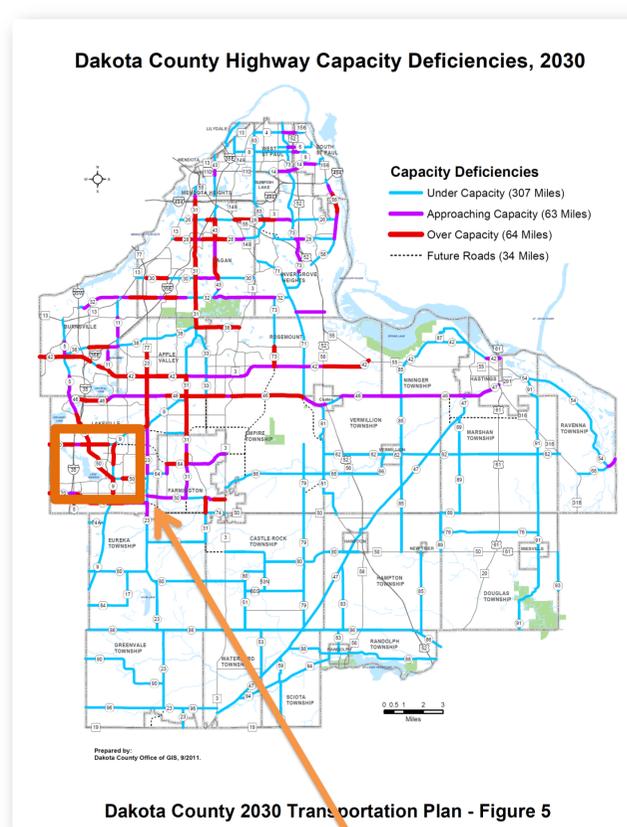
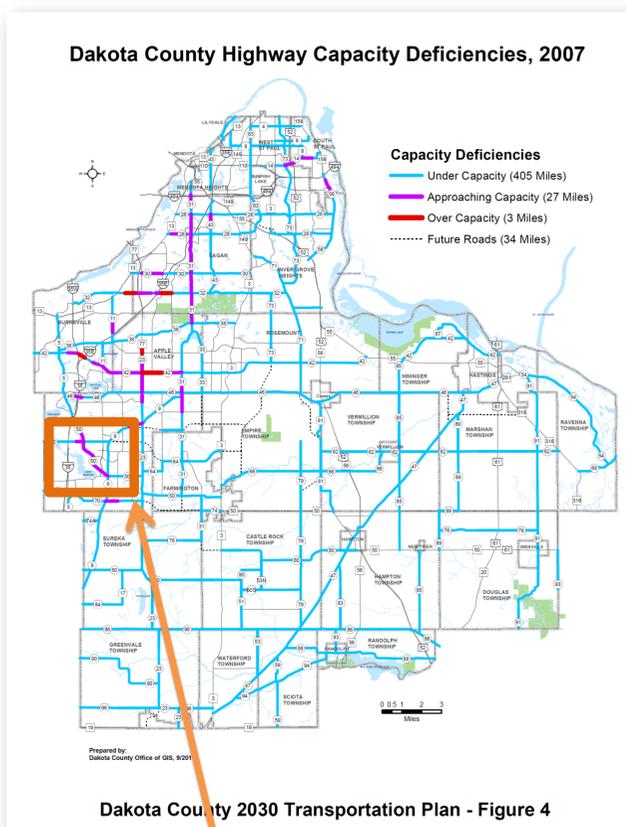
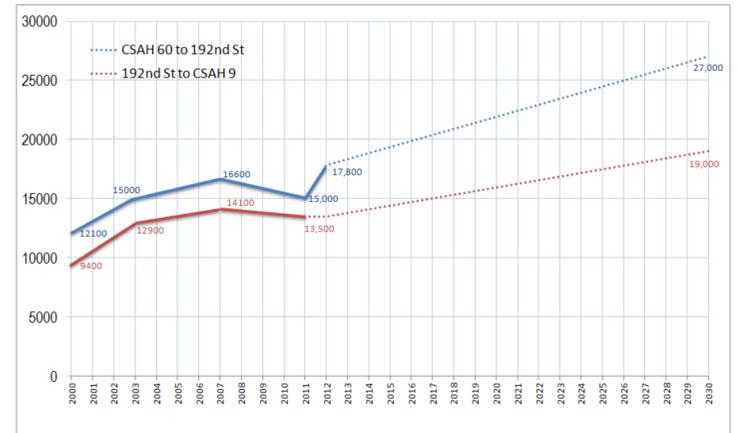
**County Highway 50**  
Kenwood Trail  
**Corridor Study**



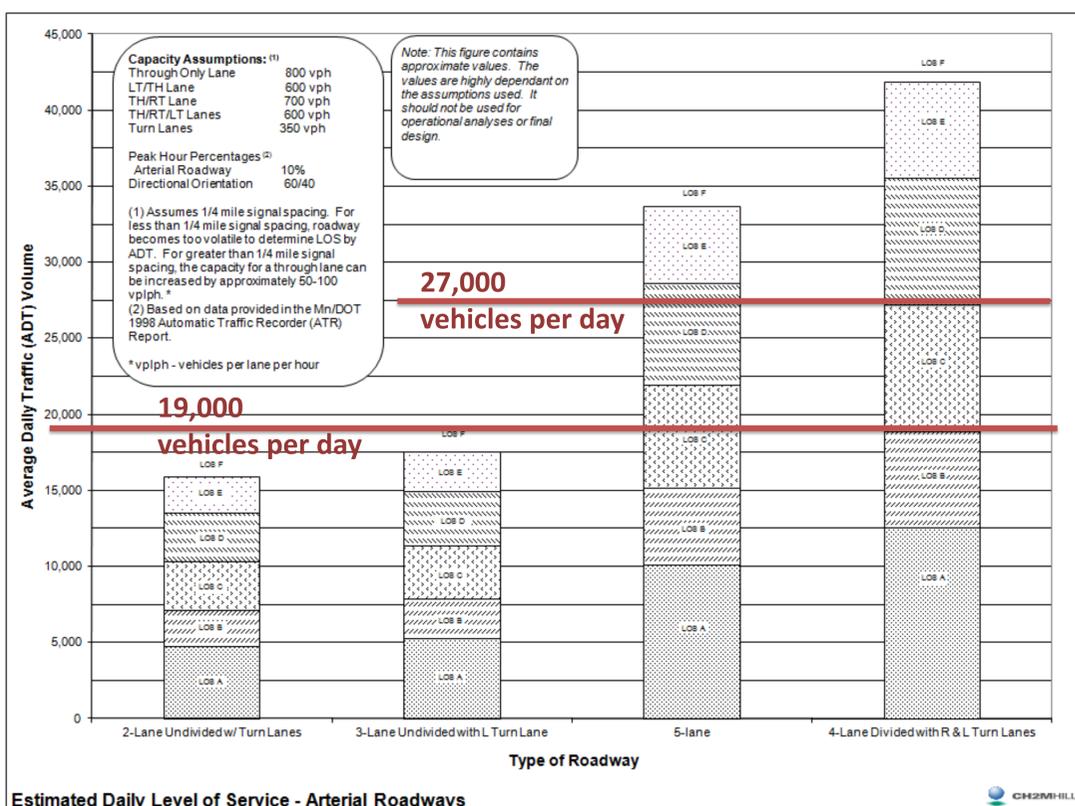
# Existing and Future Traffic Operations

## Hwy. 50 Average Daily Traffic Volumes

Location	2011 ADT	2012 ADT	2030 Projection
CSAH 60 to 192 <sup>nd</sup> St	15,000	17,800	27,000
192 <sup>nd</sup> St to CSAH 9	13,500	N/A	19,000

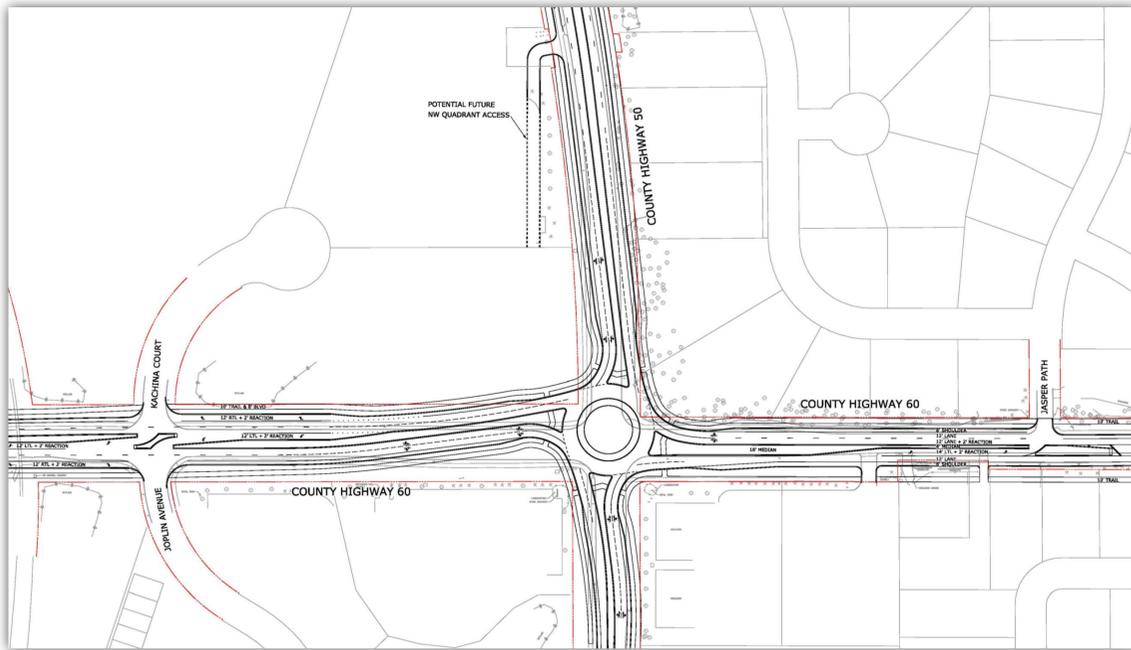


Currently approaching capacity and expected to exceed capacity by 2030.



Need to consider other options along Hwy. 50 to accommodate future traffic volumes.

# Why a Roundabout at Highway 60?



Currently 28,250 vehicles per day use the intersection.

By 2030, over 52,000 vehicles per day will be using the intersection.

The roundabout, opposed to a signalized intersection at Highway 60, is expected to:

- Provide **less delay** at the CH 50/60 intersection than a signal
- Have less severe **crashes**
- Decrease **pedestrian conflicts** with less exposure to traffic and lower vehicle speeds
- **Cost less** than a signalized intersection
- Have less Right of Way impacts to the east and south

Level of Service Comparison		Existing Signal	4-Lane Signal	Multilane Roundabout
AM	Build Year	LOS D	LOS C	LOS A
	Future with Planned Growth*	LOS F	LOS D	LOS C**
PM	Build Year	LOS D	LOC C	LOS A
	Future with Planned Growth*	LOS F	LOS D	LOS B**

\*Population and Employment Projections in Comprehensive Plans

\*\*Roundabout includes planned Free Eastbound Right Turn

Source: CSAH 50/Kenwood Trail and CSAH 60/185<sup>th</sup> Street Intersection Study, July 2011

# What's Been Completed So Far?

- **November**
  - Neighborhood Meetings to discuss the study
- **December**
  - Collected and updated traffic data
- **January**
  - Developed traffic model and alternative corridor scenarios
- **February**
  - Meetings with Business Owners along Highway 50 between Ipava and Icenic
  - City Council Workshop on February 25<sup>th</sup>
- **March**
  - Meeting with Kenwood Trail Middle School officials

# Corridor Crash History

- There were twenty-one crashes on Highway 50 in 2012.
- Based on these crashes the corridor had a crash rate of 1.4 crashes per million vehicle miles. This is below the expected crash rate for similar 3-lane roadways in the metro area that have rates closer to 2.5 crashes per million vehicle miles.
- When five-years of injury and fatal crashes were reviewed (2007-2011), there was one fatal crash and eight injury crashes; most of these crashes were intersection related.
- The fatal crash was a head-on where a vehicle crossed the centerline of Highway 50 between Jaguar Avenue and Ipava Avenue.
- Four out of the eight injury crashes were rear end crashes at intersections; all occurred with southbound vehicles.
- Three of the injury crashes involved vehicles turning left out of 188<sup>th</sup>, 192<sup>nd</sup> and Jaguar Avenue and being hit by a southbound vehicle on Highway 50.

## 2012 CH 50 All Crashes

Location	Crashes
CH 60	14 crashes
188 <sup>th</sup> Street	1 crash
192 <sup>nd</sup> Street	None
194 <sup>th</sup> Street	1 crash
Jaguar Ave	2 crashes
Ipava Avenue	3 crashes
Icenic Trail	None
<b>TOTAL</b>	<b>21 crashes</b>

## 2007-2011 Fatal and Injury Crash Summary

Location	Crashes	Crash Types
188 <sup>th</sup> Street	2 crashes	Left turn out, rear end
192 <sup>nd</sup> Street	1 crash	Left turn out
Jaguar Ave	1 crash	Left turn out with bicycle
Ipava Avenue	3 crashes	Two rear end, 1 Right angle
Icenic Trail	1 crashes	Rear End
Non-Intersection	1 crash	Fatal head-on crash