

1229 / Exit 4 (Cliff Ave) IMJR

Interchange Modification Justification Report (IMJR)

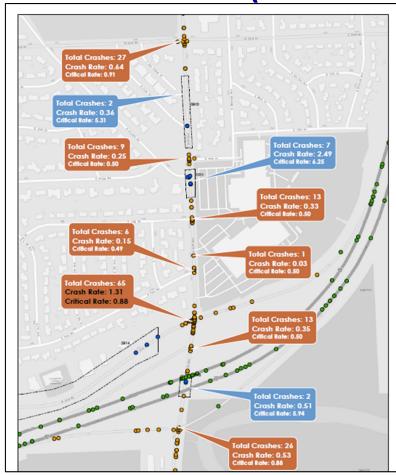
- Federal Highway Administration (FHWA) required document that concludes the proposed changes do not have a significant adverse impact on the safety and operations of the interstate facility.
- The IMJR document was developed with oversight from FHWA, SDDOT, City of Sioux Falls, and members of the SAT.
- The main steps in the process include:
 - Identify the study area
 - Gather data (ie. traffic, survey, land use, environmental, etc.)
 - Review prior studies
 - Coordinate with the preparation of the environmental studies and NEPA process
 - Determine operational & safety characteristics to address the FHWA requirements
 - Prepare and submit the IMJR document for review/approval







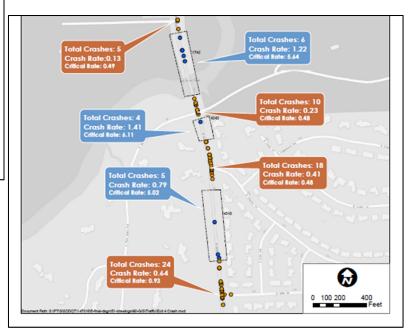
Exit 4 (Cliff Ave) – Crash Summary



Interchange and Environmental Study for I-229 Exits 3 (Minnesota Ave) and 4 (Cliff Ave)

Summary of Reported Crashes:

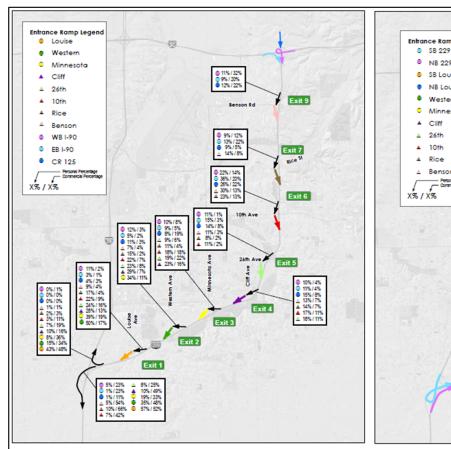
- 246 Crashes along Cliff Avenue
 - 217 at Intersections
 - 29 along Segments
- 96 Crashes on I-229 and Ramps
- 1 Intersection above Critical Rate:
 - Cliff at 41st St / I-229 SB Ramp Intersection

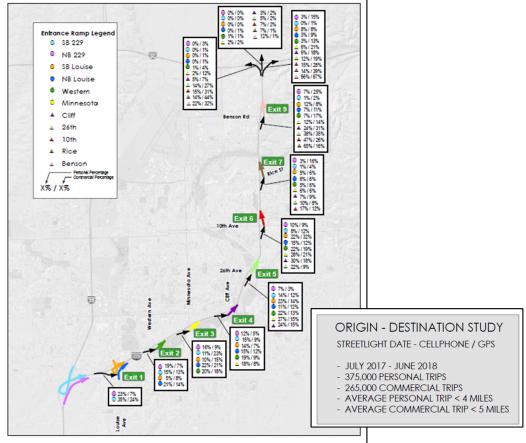






Origin – Destination Study





SB OD Summary Weekday Avg

NB OD Summary Weekday Avg

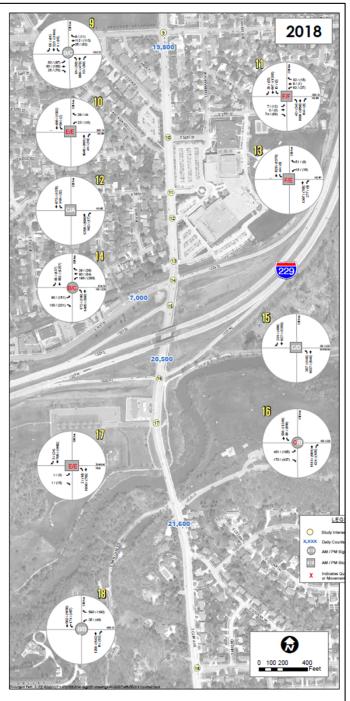




Exit 4 (Cliff Ave) – Existing Traffic Volumes

- 2018 Freeway and Ramp Data provided by SDDOT.
- 2016-2018 Intersection data provided by City of Sioux Falls.
- Included 29 study intersections and 16 ramp junctions.









Exit 4 (Cliff Ave) – Future Growth

 Sioux Falls Area MPO's Regional Travel Demand Model used to develop forecasts for 2035 and 2050



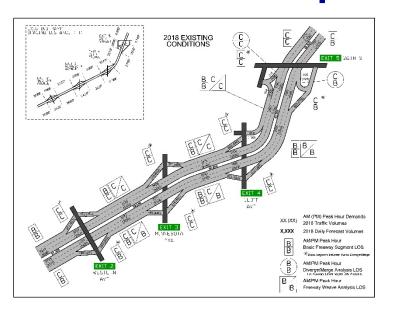
- I-229 to grow up to 60% by 2050.
- Cliff Ave to grow between 30% and up to 100%.

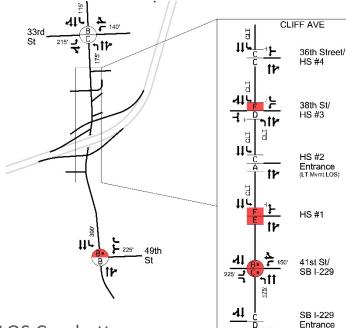






2018 Traffic Operations



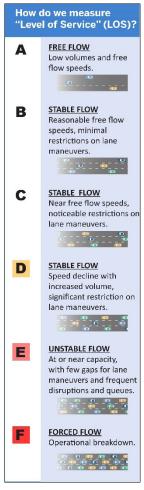


The Level of Service (LOS) goal is to achieve a LOS C or better for all freeway and ramp intersections.

The LOS goal for intersections is to achieve a LOS D or better.

Under existing conditions, the freeway LOS is achieved; however, 5 study intersections have poor LOS.





(LT Mymt LOS)

NB I-229

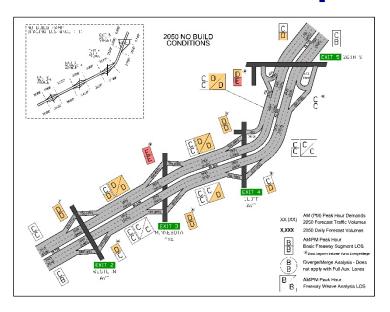
Spencer

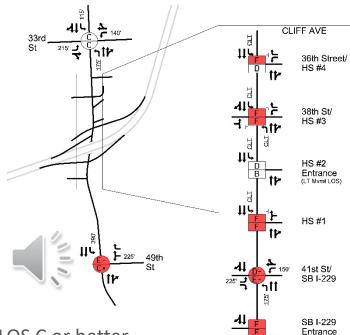
Park

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2050 Traffic Operations - No Build



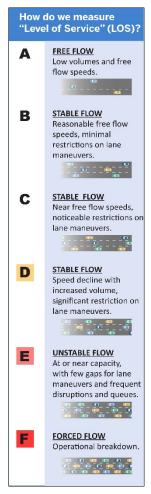


The Level of Service (LOS) goal is to achieve a LOS C or better for all freeway and ramp intersections.

The LOS goal for intersections is to achieve a LOS D or better.

Under 2050 No Build conditions, the freeway and study intersections have poor LOS.





(LT Mvmt LOS)

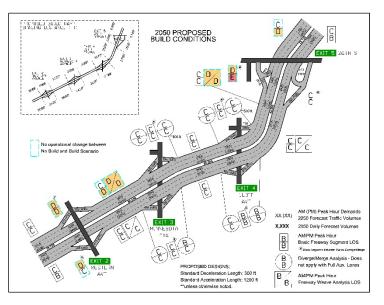
NB I-229

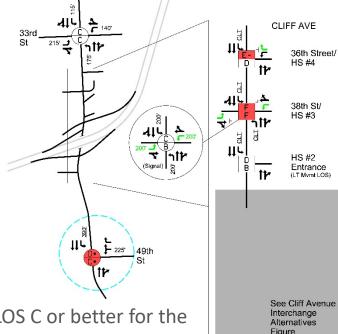
Spencer Park





2050 Traffic Operations – Build





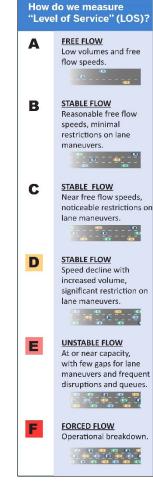
The Level of Service (LOS) goal is to achieve a LOS C or better for the freeway within the project area.

Near Western Avenue and 26th Street poor LOS remains.

All three alternatives provide acceptable LOS at the ramp intersections.

- 38th Street will be signalized.
- 36th Street and Spencer Park un-signalized with minor street delay.
- 49th Street intersection is outside the immediate project area.





Spencer

Park





Thanks for Watching!!!

- Reminder to Provide Feedback/Comments (online at the project website)
- Project Website: www.i229exits3and4.com
- Project Contacts:

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