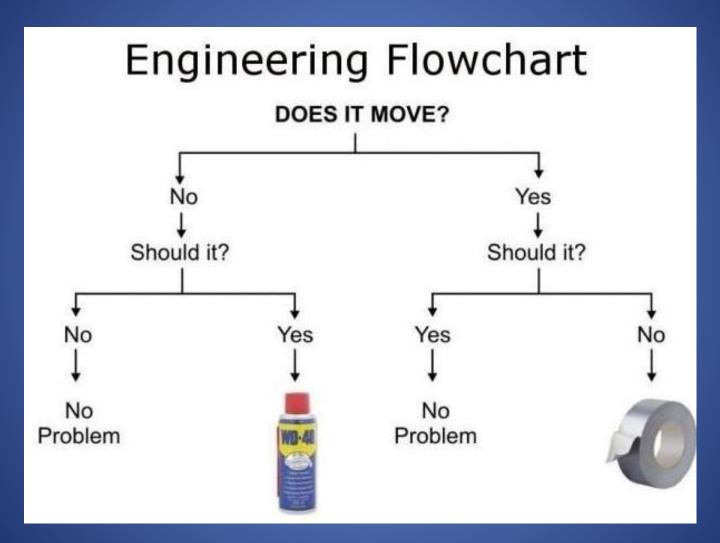
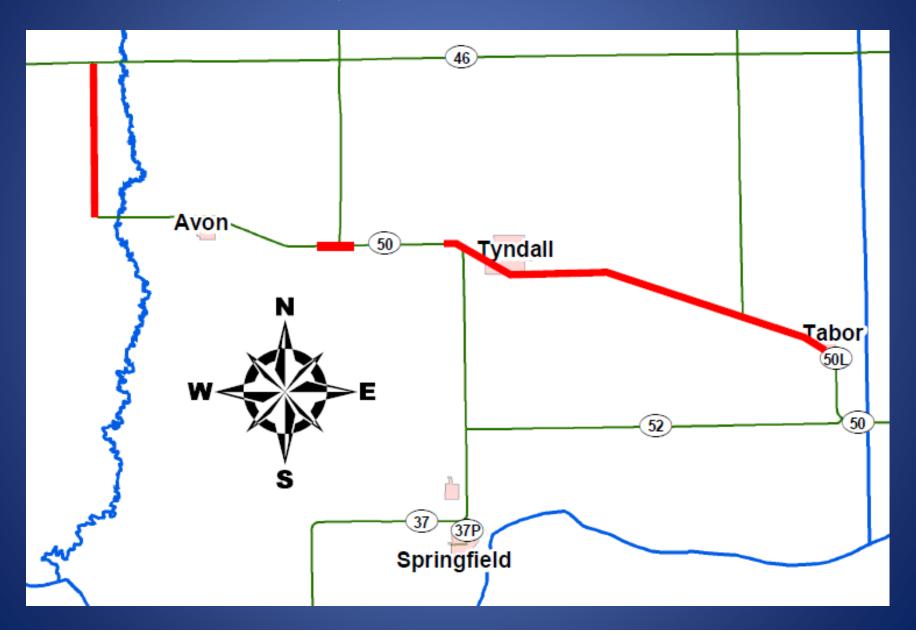
SD50 Divided 4 Lanes



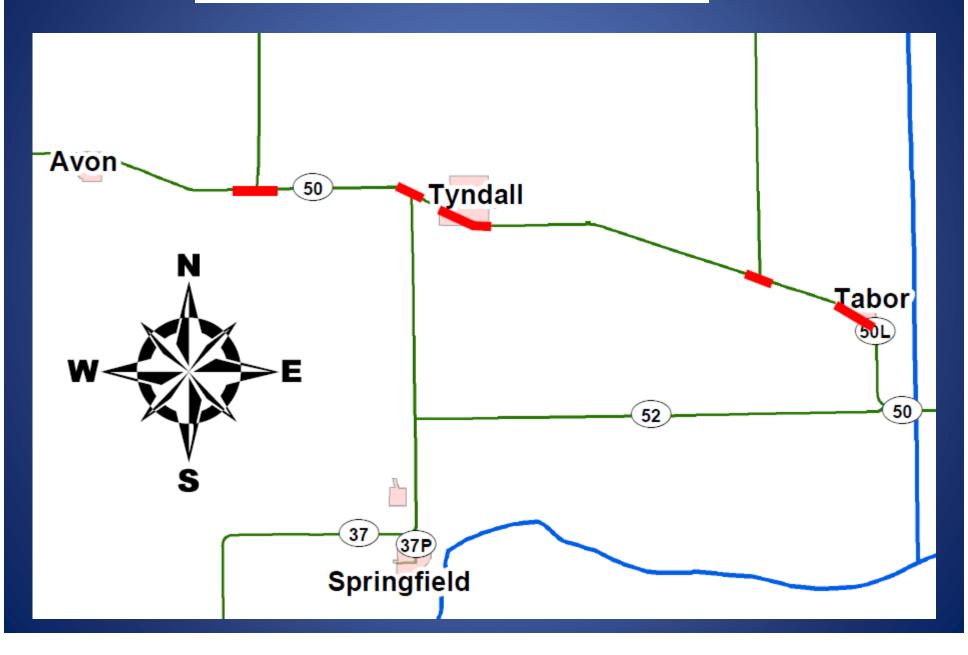
Mark Malone, PE

SD DOT

Project Limits



Reconstruction Limits



Why are we here?

- > To involve public in the design process
- Exchange ideas listen and discuss concerns
- > To discuss the divided highway segments of SD50
 - ✓ Traffic Impacts
 - ✓ Right of Way Impacts
 - ✓ Safety Impacts





Crash numbers — 2005-2014

- ➤ SD37W, SD37E, SD25 32 crashes
 - √ 16 Injury
- > Tyndall 18 crashes
 - √10 Injury
- ➤ Tabor 5 crashes
 - ✓3 Injury



Intersection Fatalities 3 at or near Tyndall

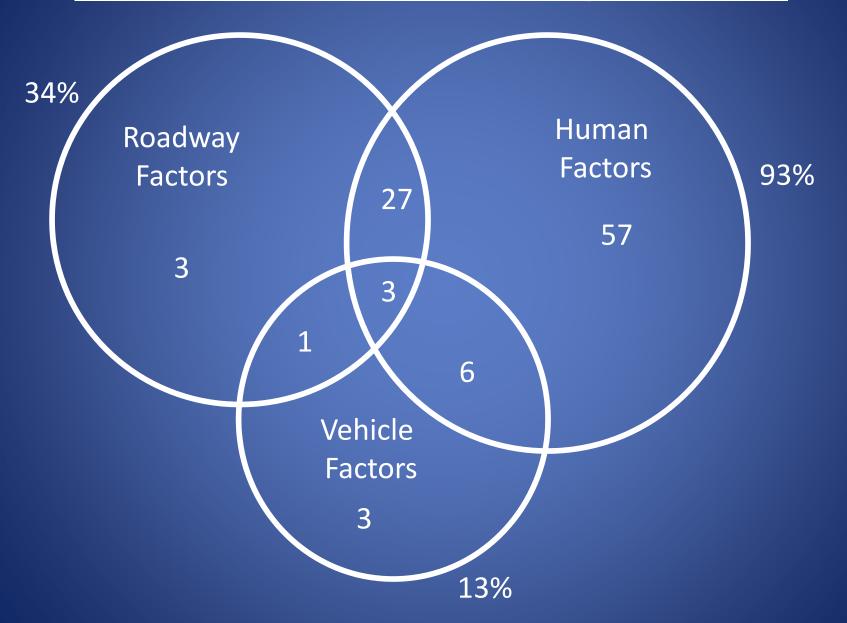


	FAT	AL DAKOTA INVESTIGAT	OP'S
Please Type or Print		AFFIC ACCIDENT REF	
ACCIDENT DIAGRAM	Ford Ave	BON HOMME	
Indicate North			
SDSO WBLanes		(2)	
	Tyei	ld sign	median
50 50 EB Lanes			
	5D 37	stop sign	

ACCIDENT NARRATIVE: Describe What Happened

VEHICLE #1 WAS NORTHBOUND ON SD 37. VEHICLE #2 WAS WESTBOUND ON SD 50. THE DRIVER OF VEHICLE #1 FAILED TO YIELD AFTER STOPPING FOR THE STOP SIGN AT THE SD 37/50 JUNCTION. VEHICLE #1 WAS STRUCK ON THE PASSENGER SIDE BY VEHICLE #2 AND PUSHED INTO THE DITCH ON THE NORTH SIDE OF THE ROAD. VEHICLE #2 SUSTAINED FRONT END DAMAGE FROM THE IMPACT AND ALSO CAME TO REST IN THE NORTH DITCH.

Crashes - Contributing Factors



Intersection Safety Study

- By Felsburg, Holt & Ullevig
 - Lincoln NE
- 12 Divided 4 lane intersections in SD
- Reviewed and discussed many alternatives
- These intersections had:
 - Lowest traffic volumes of intersections reviewed
 - Lower end of Crash & Severity Rates (1 exception)
 - E Jct SD37
 - Highest crash rate of all intersections reviewed
 - 2nd Highest Severity Rate

SDDOT Intersection Review





Traffic



Crashes

Costs

Evaluate Alternatives



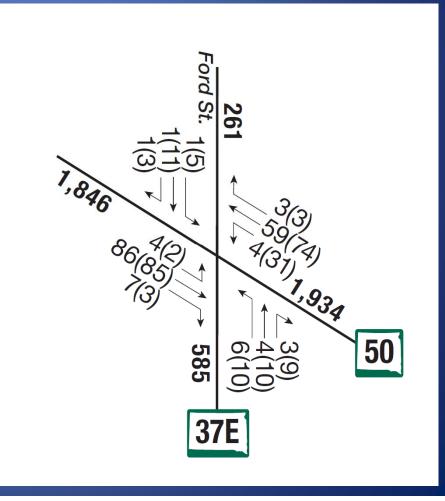


LEGEND

XXX(XXX) = AM(PM) Peak Hour Traffic Volumes

XXXX = Daily Traffic Volumes

Traffic Data



Why remove 4 lane divided?

Table 15-10 Estimated Number of Lanes

Total Number	Total Design Y	ear ADT (vpd) ¹	
of Lanes	Rural Level	Urban	
2	< 8,000	< 2,500	
3	2	2,500 to 16,000	
4	8,000 to 20,000 ³	3	
5	2	16,000 to 30,000	
6	> 20,000 ⁴	> 30,000 ⁴	

Construction/Reconstruction projects are designed based on a typical 20 year ADT projection beyond the anticipated year of project construction.

Medians should be used.

Dell Rapids - 3 lanes: 3,655 ADT

Continuous left turn lanes may be considered based on left turn volumes and/or when intersections and/or approaches are closely spaced together.

Undivided sections may be used if left turn movements are low and there is no crash history, otherwise consider installing a median or 5 lane section.

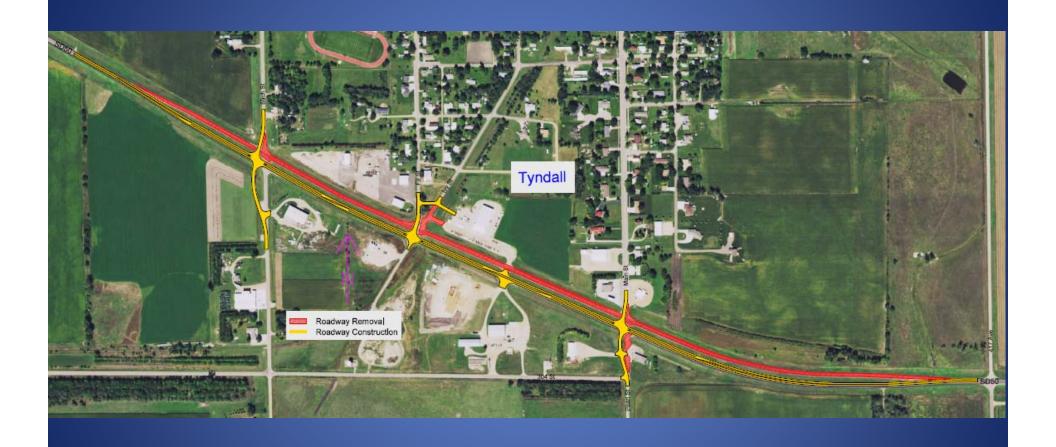
Roadway Safety Audit Review

- > Independent review
 - ✓ Clay County Sherriff, Yankton County Deputy, Highway Patrol, Highway Safety Engineer, Traffic Engineers, FHWA, etc.
- > August 26, 2014
- ➤ Recommendation: Eliminate 4 lane divided highway and provide 2 lanes with a center turn lane

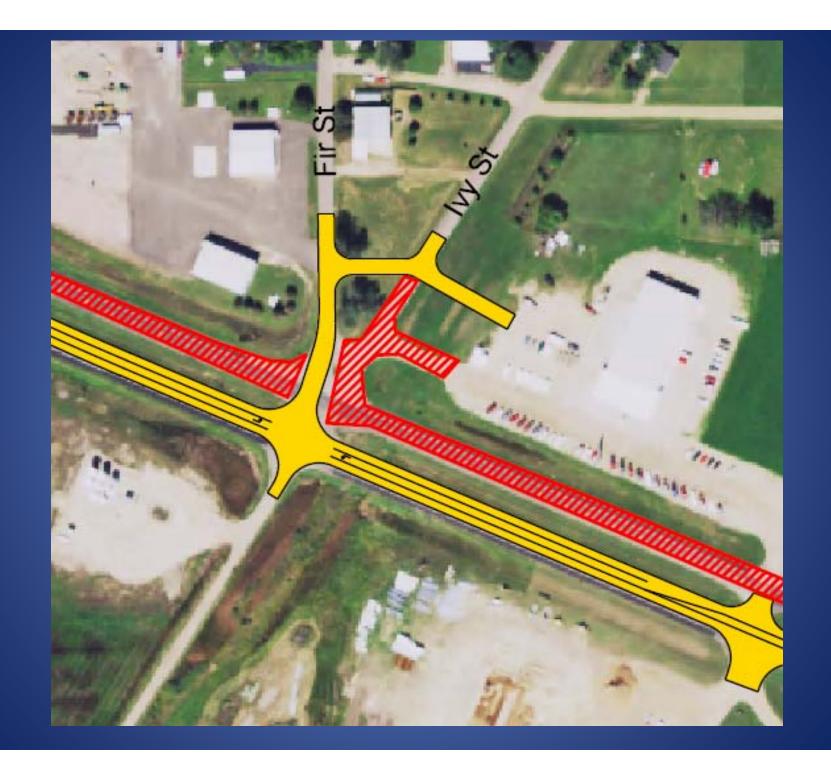




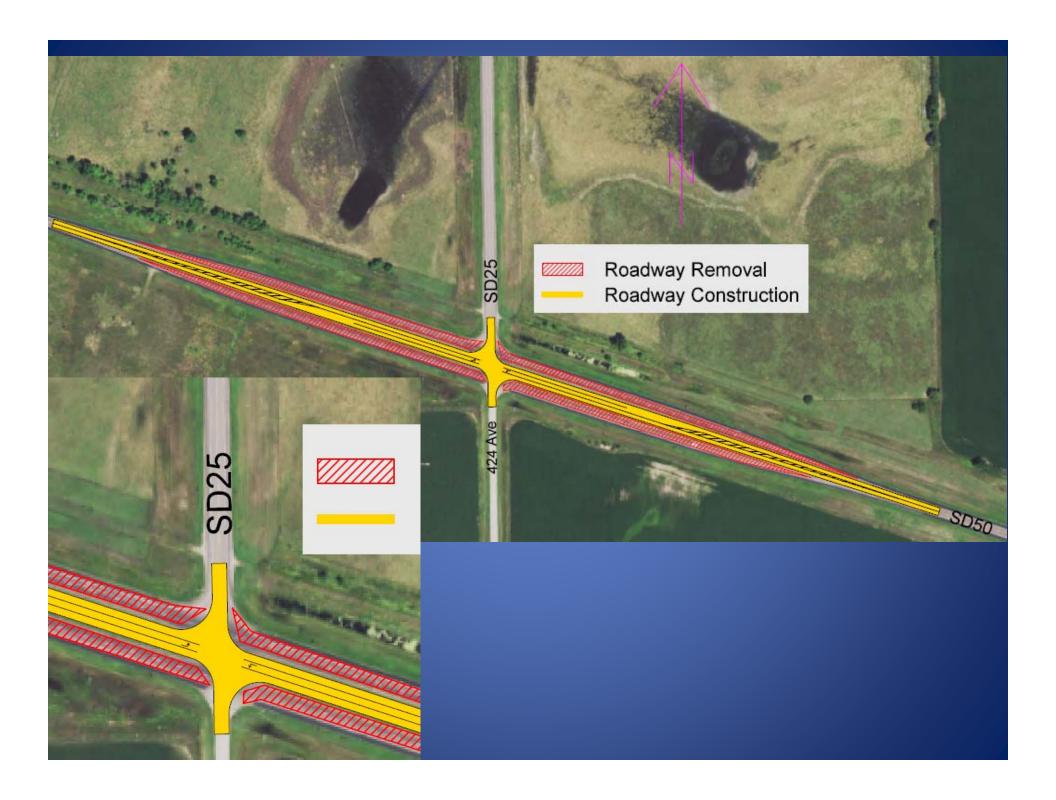






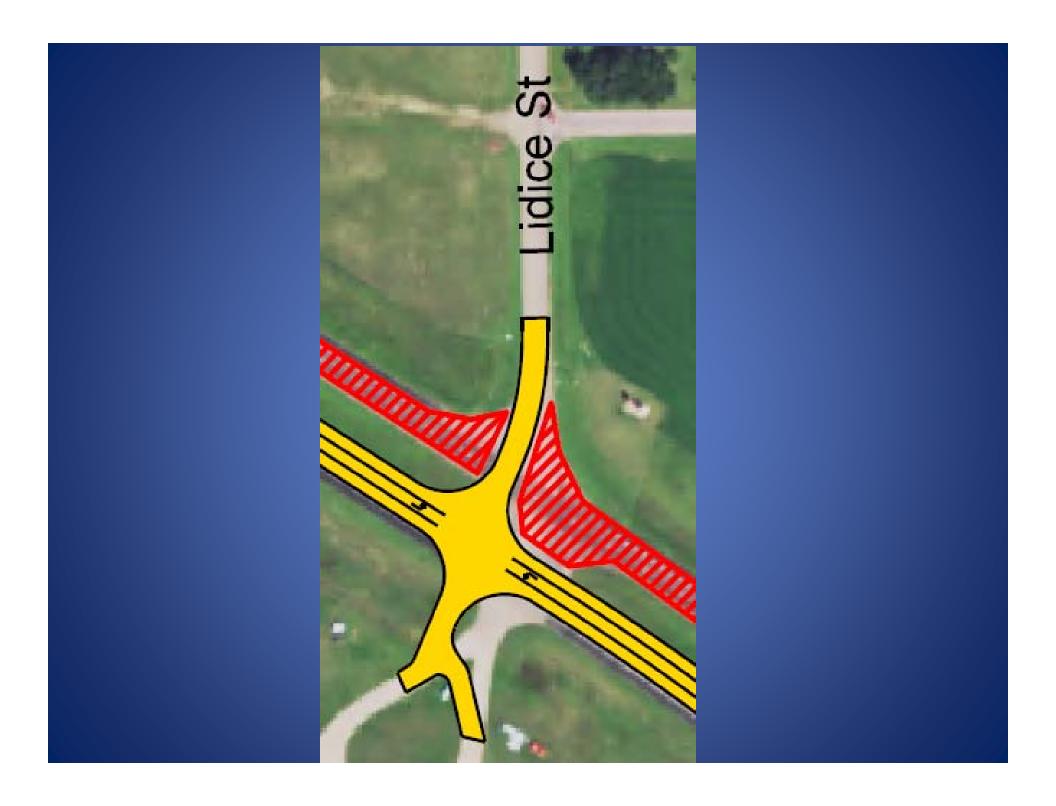














>Another Option



Speed limit proposals

- ➤ SDDOT will conduct speed study following construction
 - ✓ Preliminary thought of 45mph-50mph
 - ✓ Burke is 40 mph
 - Observed speeds 45mph-50mph



Project Construction

- Construction currently scheduled for 2020 or beyond
 - ✓ Developmental STIP
 - ✓ Pending Funding & Scheduling
 - ✓ 1 construction season







- Projected Cost \$14.17 M
 - ✓ Reconstruction \$8.33 M (3.5 mi)
 - ✓ Resurfacing \$5.84 M (12.9 mi)

Traffic During Construction

Area/Region Offices currently reviewing options

- ✓ 1 Construction Season
- ✓ Minor Impacts
- ✓ Access to homes & businesses will be maintained







- ➤ Design will meet with affected landowners
 - ✓ Schedule is yet to be determined
 - Right of Way Impacts

Written Comments Due Mon. Aug 17, 2015

- ✓ Mail 700 E Broadway Ave Pierre, SD 57501
- ✓ Email mark.malone@state.sd.us
- ✓ Here Now



Website (project information)

✓ http://sddot.com/dot/publicmeetings

