

Cavalier County

The total project cost suggested for Cavalier County is \$126,945. The project cost breakout for intersection, roadway segment, and curve projects are listed in Table 4-2. High-priority locations that received a project are shown in Figure 4-8. These locations are described in further detail in Appendix 4A along with priority rankings and suggested project sheets.

TABLE 4-2
 Cavalier County Project Costs

Project Type	Cost
Intersections	\$55,300
Roadway Segments	\$28,145
Curves	\$43,500
Total	\$126,945

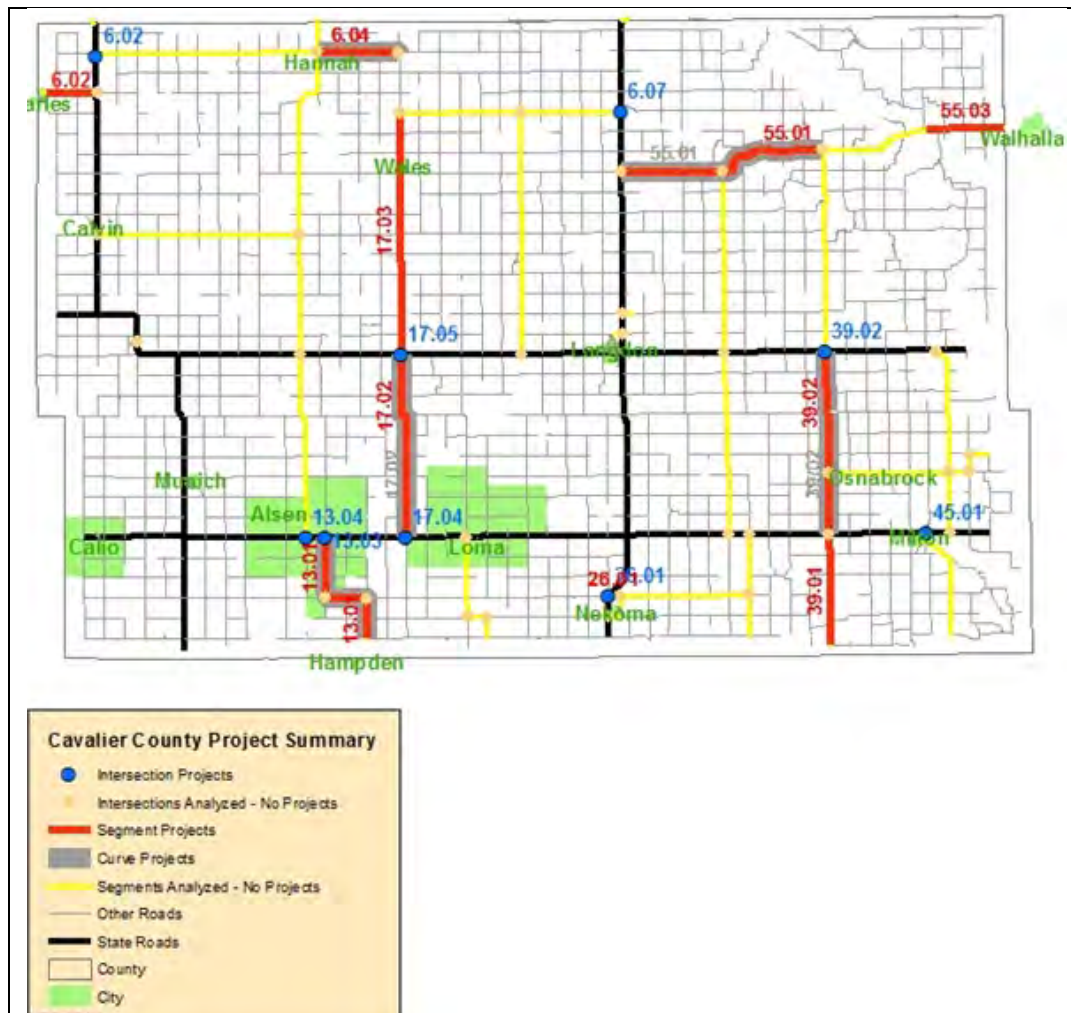


FIGURE 4-8
 Cavalier County Projects Location Map

23 USC 409
NDDOT Reserves All Objections

APPENDIX 4A
Cavalier County

**Cavalier County
Rural Segment Projects**

Page	Corridor ID	Route #	Start	End	Length	Risk Ranking	4" Edge Line	6" Edge Lines	Project Cost (\$)
1	39.02	Cavalier 39	ND 66	ND 5	9.1	★★★	0.0	9.1	\$5,915.00
2	17.03	Cavalier 17	ND 5	Cavalier 6	12.0	★★★	12.0	0.0	\$4,800.00
3	6.04	Cavalier 6	Cavalier 13/Hanna CL	Cavalier 17	3.9	★★★	3.9	0.0	\$1,560.00
4	55.03	Cavalier 55	104th Street	County Limit	3.8	★★	3.8	0.0	\$1,520.00
5	6.02	Cavalier 6	M Street / Sarles	ND 20	2.7	★★	2.7	0.0	\$1,080.00
6	39.01	Cavalier 39	79th Street	ND 66	5.5	★★	5.5	0.0	\$2,200.00
7	13.01	Cavalier 13	County Line	ND 66	7.0	★★	7.0	0.0	\$2,800.00
8	17.02	Cavalier 17	ND 66/Loma	ND 5	9.1	★★	9.1	0.0	\$3,640.00
9	26.01	Cavalier 26	ND 1	Cavalier 502.01/Road to Nekoma	0.6	★★	0.0	0.6	\$390.00
10	55.01	Cavalier 55	ND 1	Cavalier 39	10.6	★★	10.6	0.0	\$4,240.00
							54.6	9.7	\$28,145.00

**Cavalier County
Rural Segment Listing**

*High Priority Segments Project Sheet Page Number

Project Sheet Page*	Corridor	Route	Start	End	Length (miles)	VMT	Lane Departure Crashes	ADT	Lane Departure Density	Access Density	Curves w/ Critical Radius / Mile	Edge Risk Assesment
5	6.02	Cavalier 6	M Street / Sarles	ND 20	2.7	972,296	0	198	0.00	5.9	0.0	2
3	6.04	Cavalier 6	Cavalier 13/Hanna CL	Cavalier 17	3.9	856,718	0	120	0.00	9.7	0.3	2
7	13.01	Cavalier 13	County Line	ND 66	7.0	888,621	0	70	0.00	7.2	0.3	2
8	17.02	Cavalier 17	ND 66/Loma	ND 5	9.1	892,477	0	53	0.00	6.7	0.2	2
2	17.03	Cavalier 17	ND 5	Cavalier 6	12.0	5,315,339	2	243	0.03	6.7	0.0	2
9	26.01	Cavalier 26	ND 1	Cavalier 502.01/Road to Nekoma	0.6	252,801	0	250	0.00	14.4	0.0	1
6	39.01	Cavalier 39	79th Street	ND 66	5.5	852,902	0	85	0.00	18.6	0.0	2
1	39.02	Cavalier 39	ND 66	ND 5	9.1	4,800,526	1	290	0.02	6.1	0.2	2
10	55.01	Cavalier 55	ND 1	Cavalier 39	10.6	2,792,977	2	145	0.04	6.6	0.6	1
4	55.03	Cavalier 55	104th Street	County Limit	3.8	2,209,621	0	315	0.00	6.0	0.0	2
	504.01	0	End Gravel 13.03	County Limit	0.2	9,376	0	29	0.00	16.9	0.0	0
	505.01	0	End Gravel 13.03	County Limit	0.1	15,246	0	85	0.00	10.2	0.0	0
	506.01	93rd Street	ND 5	City Limits	0.2	7,984	0	29	0.00	13.3	0.0	0
	507.01	94th Street	Langdon City Limits	ND 1	0.5	113,267	0	130	0.00	8.4	0.0	1
	508.01	95th Street	ND 1	End of Pave	0.5	24,161	0	29	0.00	11.0	0.0	0
	510.01	80th Ave	ND 1	Nekoma City Limits	0.5	86,958	0	100	0.00	8.4	0.0	1
					66.3	20,091,272	5					

Edge Risk Legend

- 1 Risky' - NEITHER shoulder or good clear zone
- 2 Either a shoulder OR good clear zone
- 3 BOTH shoulder and a good clear zone

Critical ADT Range - Lane Departure

150
500

	Access	Lane Departure	Critical Radius Curves
Total	522.00	5	11
Total Mileage	66.3	66.3	66.3
Years		5	
Average Density (Total/Mile)	7.9	0.02	0.17

**Cavalier County
Rural Segment Prioritization - Lane Departure Priority**

#	Corridor	Route	Start	End	Length	ADT	ADT Range	Lane Departure Density	Access Density	Curve Critical Radius Density	Edge Risk	Totals	Tiebreakers	
													Edge Risk	ADT
1	39.02	Cavalier 39	ND 66	ND 5	9.1	290	★			★	★	★★★	2	290
2	17.03	Cavalier 17	ND 5	Cavalier 6	12.0	243	★	★			★	★★★	2	243
3	6.04	Cavalier 6	Cavalier 13/Hanna CL	Cavalier 17	3.9	120			★	★	★	★★★	2	120
4	55.03	Cavalier 55	104th Street	County Limit	3.8	315	★				★	★★	2	315
5	6.02	Cavalier 6	M Street / Sarles	ND 20	2.7	198	★				★	★★	2	198
6	39.01	Cavalier 39	79th Street	ND 66	5.5	85			★		★	★★	2	85
7	13.01	Cavalier 13	County Line	ND 66	7.0	70				★	★	★★	2	70
8	17.02	Cavalier 17	ND 66/Loma	ND 5	9.1	53				★	★	★★	2	53
9	26.01	Cavalier 26	ND 1	Cavalier 502.01/Road to Nekoma	0.6	250	★		★			★★	1	250
10	55.01	Cavalier 55	ND 1	Cavalier 39	10.6	145		★		★		★★	1	145
11	507.01	94th Street	Langdon City Limits	ND 1	0.5	130			★			★	1	130
12	510.01	80th Ave	ND 1	Nekoma City Limits	0.5	100			★			★	1	100
13	505.01	0	End Gravel 13.03	County Limit	0.1	85			★			★	0	85
14	504.01	0	End Gravel 13.03	County Limit	0.2	29			★			★	0	29
15	506.01	93rd Street	ND 5	City Limits	0.2	29			★			★	0	29
18	508.01	95th Street	ND 1	End of Pave	0.5	29			★			★	0	29

Total Stars -- 5
% That Gets Star -- 31%

2 9 5 8
13% 56% 31% 50%

#	%	%
★★★★★	0	0%
★★★★	0	0%
★★★	3	19%
★★	7	44%
★	6	38%
	0	0%
	16	100%

Stars

ADT Range - If segment has an ADT in the range of most at risk ADT based on Northeast totals. (150 < ADT < 500)

Lane Departure Density - If segment has higher lane departure density than the Northeast average (0.032).

Access Density - If segment has access density than the nationwide average (8).

Curve Critical Radius Density - If segment has higher density of curves with critical radius than the Northeast average (0.084).

Edge Risk Assessment - Edge risk of 2 or 3, based on assessment of roadway edge and clear zone.

HIGHWAY SAFETY IMPROVEMENT PROGRAM (HSIP) PROJECT APPLICATION

North Dakota Department of Transportation Programming
SFN 59959 (06-2011)

Cavalier 39 from ND 66 to ND 5

Agency Name: Cavalier County
Contact Name: Terry Johnston
Email Address: tjohnsto@nd.gov

ND DOT District: 3
Telephone Number: 701-256-2161

Please attach a location map(s). You may use additional sheets to further describe your project

Location Description

Start: ND 66
End: ND 5
Facility Type: 2-lane
ADT: 290
Road Type Rural Paved
County Road Cavalier 39

Lane Width: 12'
Speed Limit: High
Shoulder Width: 1'
Shoulder Type: Paved
Length (miles): 9.1
Rumble Installed: No

- SHSP Emphasis Area (check all that apply)
- Reduce Alcohol Impaired Driving
 - Increase the Use of Safety Restraints for all Occupants
 - Younger Driver/Older Driver Safety
 - Curb Aggressive Driving
 - Improvements to Address Lane Departure Crashes
 - Enhancing Emergency Medical Capabilities to Increase Survivability
 - Improve Intersection Safety

Describe Current Safety Issues & Systemic Ranking Review

North Dakota Crashes, 2008-2012

5 years

	Total	Road Dept	K+A
Crashes	2	1	1
Density (per mile per year)	0.04	0.02	0.02
Rate (per MVM)	0.42	0.21	0.21

	Value	Critical	Road
ADT Range	290	150≤ADT≤500	★
RD Density	0.022	0.032	
Access Density	6.1	8.0	
Curve Critical Radius Density	0.220	0.084	★
Edge Risk	2	2 or 3	★
			★★★



Describe Proposed Safety Improvements

Description	Type	Cost per mi	Mileage	Cost	Notes - Qualifies for edge line rumble. Curve and intersection projects suggested on other sheets.
4" Edge Lines	Proactive	\$400	0.0	\$0	
6" Edge Lines	Proactive	\$650	9.1	\$5,915	
Edge Rumble Strip	Proactive	\$3,500	0.0	\$0	
Ground In Wet-Reflective Markings	Proactive	\$8,500	0.0	\$0	
Center Line Rumble Strip	Proactive	\$3,000	0.0	\$0	
6" Center Line	Proactive	\$650	0.0	\$0	

Project Cost Estimate (attach detailed copy)

Proposed Year of Construction

Federal Funds	\$5,324
Local Match (10% of Total project cost)	\$592
Total Project Cost	\$5,915

NDDOT Central Office Only

Project Accepted?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Reference Number	ID Number
Notes			

Page: 1
Segment ID: 39.02
Date: 10/23/2013

HIGHWAY SAFETY IMPROVEMENT PROGRAM (HSIP) PROJECT APPLICATION

North Dakota Department of Transportation Programming
SFN 59959 (06-2011)

Cavalier 17 from ND 5 to Cavalier 6

Agency Name: Cavalier County
Contact Name: Terry Johnston
Email Address: tjohnsto@nd.gov

ND DOT District: 3
Telephone Number: 701-256-2161

Please attach a location map(s). You may use additional sheets to further describe your project

Location Description

Start: ND 5
End: Cavalier 6
Facility Type: 2-lane
ADT: 243
Road Type Rural Paved
County Road Cavalier 17

Lane Width: 12'
Speed Limit: High
Shoulder Width: 2'
Shoulder Type: Gravel
Length (miles): 12.0
Rumble Installed: No

- SHSP Emphasis Area (check all that apply)
- Reduce Alcohol Impaired Driving
 - Increase the Use of Safety Restraints for all Occupants
 - Younger Driver/Older Driver Safety
 - Curb Aggressive Driving
 - Improvements to Address Lane Departure Crashes
 - Enhancing Emergency Medical Capabilities to Increase Survivability
 - Improve Intersection Safety

Describe Current Safety Issues & Systemic Ranking Review

North Dakota Crashes, 2008-2012

5 years

	Total	Road Dept	K+A
Crashes	2	2	0
Density (per mile per year)	0.03	0.03	0.00
Rate (per MVM)	0.38	0.38	0.00

	Value	Critical	Road
ADT Range	243	150≤ADT≤500	★
RD Density	0.033	0.032	★
Access Density	6.7	8.0	
Curve Critical Radius Density	0.000	0.084	
Edge Risk	2	2 or 3	★
			★★★



Describe Proposed Safety Improvements

Description	Type	Cost per mi	Mileage	Cost	Notes - Qualifies for edge line rumble.
4" Edge Lines	Proactive	\$400	12.0	\$4,800	
6" Edge Lines	Proactive	\$650	0.0	\$0	
Edge Rumble Strip	Proactive	\$3,500	0.0	\$0	
Ground In Wet-Reflective Markings	Proactive	\$8,500	0.0	\$0	
Center Line Rumble Strip	Proactive	\$3,000	0.0	\$0	
6" Center Line	Proactive	\$650	0.0	\$0	

Project Cost Estimate (attach detailed copy)

Proposed Year of Construction

Federal Funds	\$4,320
Local Match (10% of Total project cost)	\$480
Total Project Cost	\$4,800

NDDOT Central Office Only

Project Accepted? Yes No Reference Number ID Number

Notes

Page: 2
Segment ID: 17.03
Date: 10/23/2013

HIGHWAY SAFETY IMPROVEMENT PROGRAM (HSIP) PROJECT APPLICATION

North Dakota Department of Transportation Programming
SFN 59959 (06-2011)

Cavalier 6 from Cavalier 13/Hanna CL to Cavalier 17

Agency Name: Cavalier County
Contact Name: Terry Johnston
Email Address: tjohnsto@nd.gov

ND DOT District: 3
Telephone Number: 701-256-2161

Please attach a location map(s). You may use additional sheets to further describe your project

Location Description

Start: Cavalier 13/Hanna CL
End: Cavalier 17
Facility Type: 2-lane
ADT: 120
Road Type Rural Paved
County Road Cavalier 6

Lane Width: 12'
Speed Limit: High
Shoulder Width: 2'
Shoulder Type: Gravel
Length (miles): 3.9
Rumble Installed: No

- SHSP Emphasis Area (check all that apply)
- Reduce Alcohol Impaired Driving
 - Increase the Use of Safety Restraints for all Occupants
 - Younger Driver/Older Driver Safety
 - Curb Aggressive Driving
 - Improvements to Address Lane Departure Crashes
 - Enhancing Emergency Medical Capabilities to Increase Survivability
 - Improve Intersection Safety

Describe Current Safety Issues & Systemic Ranking Review

North Dakota Crashes, 2008-2012

5 years

	Total	Road Dept	K+A
Crashes	0	0	0
Density (per mile per year)	0.00	0.00	0.00
Rate (per MVM)	0.00	0.00	0.00

	Value	Critical	Road
ADT Range	120	150 ≤ ADT ≤ 500	
RD Density	0.000	0.032	
Access Density	9.7	8.0	★
Curve Critical Radius Density	0.256	0.084	★
Edge Risk	2	2 or 3	★
			★★★



Describe Proposed Safety Improvements

Description	Type	Cost per mi	Mileage	Cost	Notes - Curve projects suggested on other sheets
4" Edge Lines	Proactive	\$400	3.9	\$1,560	
6" Edge Lines	Proactive	\$650	0.0	\$0	
Edge Rumble Strip	Proactive	\$3,500	0.0	\$0	
Ground In Wet-Reflective Markings	Proactive	\$8,500	0.0	\$0	
Center Line Rumble Strip	Proactive	\$3,000	0.0	\$0	
6" Center Line	Proactive	\$650	0.0	\$0	

Project Cost Estimate (attach detailed copy)

Proposed Year of Construction

Federal Funds	\$1,404
Local Match (10% of Total project cost)	\$156
Total Project Cost	\$1,560

NDDOT Central Office Only

Project Accepted?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Reference Number	ID Number
Notes			

Page: 3
Segment ID: 6.04
Date: 10/23/2013

HIGHWAY SAFETY IMPROVEMENT PROGRAM (HSIP) PROJECT APPLICATION

North Dakota Department of Transportation Programming
SFN 59959 (06-2011)

Cavalier 55 from 104th Street to County Limit

Agency Name: Cavalier County
Contact Name: Terry Johnston
Email Address: tjohnsto@nd.gov

ND DOT District: 3
Telephone Number: 701-256-2161

Please attach a location map(s). You may use additional sheets to further describe your project

Location Description

Start: 104th Street
End: County Limit
Facility Type: 2-lane
ADT: 315
Road Type Rural Paved
County Road Cavalier 55

Lane Width: 12'
Speed Limit: High
Shoulder Width: 2'
Shoulder Type: Gravel
Length (miles): 3.8
Rumble Installed: No

SHSP Emphasis Area (check all that apply)

- Reduce Alcohol Impaired Driving
- Increase the Use of Safety Restraints for all Occupants
- Younger Driver/Older Driver Safety
- Curb Aggressive Driving
- Improvements to Address Lane Departure Crashes
- Enhancing Emergency Medical Capabilities to Increase Survivability
- Improve Intersection Safety

Describe Current Safety Issues & Systemic Ranking Review

North Dakota Crashes, 2008-2012

5 years

	Total	Road Dept	K+A
Crashes	1	0	0
Density (per mile per year)	0.05	0.00	0.00
Rate (per MVM)	0.46	0.00	0.00

	Value	Critical	Road
ADT Range	315	150≤ADT≤500	★
RD Density	0.000	0.032	
Access Density	6.0	8.0	
Curve Critical Radius Density	0.000	0.084	
Edge Risk	2	2 or 3	★★



Describe Proposed Safety Improvements

Description	Type	Cost per mi	Mileage	Cost	Notes - Qualifies for edge line rumble. Scenic backway.
4" Edge Lines	Proactive	\$400	3.8	\$1,520	
6" Edge Lines	Proactive	\$650	0.0	\$0	
Edge Rumble Strip	Proactive	\$3,500	0.0	\$0	
Ground In Wet-Reflective Markings	Proactive	\$8,500	0.0	\$0	
Center Line Rumble Strip	Proactive	\$3,000	0.0	\$0	
6" Center Line	Proactive	\$650	0.0	\$0	

Project Cost Estimate (attach detailed copy)

Proposed Year of Construction

Federal Funds	\$1,368
Local Match (10% of Total project cost)	\$152
Total Project Cost	\$1,520

NDDOT Central Office Only

Project Accepted? Yes No Reference Number ID Number

Notes

Page: 4
Segment ID: 55.03
Date: 10/23/2013

HIGHWAY SAFETY IMPROVEMENT PROGRAM (HSIP) PROJECT APPLICATION

North Dakota Department of Transportation Programming
SFN 59959 (06-2011)

Cavalier 6 from M Street / Sarles to ND 20

Agency Name: Cavalier County
Contact Name: Terry Johnston
Email Address: tjohnsto@nd.gov

ND DOT District: 3
Telephone Number: 701-256-2161

Please attach a location map(s). You may use additional sheets to further describe your project

Location Description

Start: M Street / Sarles
End: ND 20
Facility Type: 2-lane
ADT: 198
Road Type Rural Paved
County Road Cavalier 6

Lane Width: 12'
Speed Limit: High
Shoulder Width: 2'
Shoulder Type: Gravel
Length (miles): 2.7
Rumble Installed: No

SHSP Emphasis Area (check all that apply)

- Reduce Alcohol Impaired Driving
- Increase the Use of Safety Restraints for all Occupants
- Younger Driver/Older Driver Safety
- Curb Aggressive Driving
- Improvements to Address Lane Departure Crashes
- Enhancing Emergency Medical Capabilities to Increase Survivability
- Improve Intersection Safety

Describe Current Safety Issues & Systemic Ranking Review

North Dakota Crashes, 2008-2012

5 years

	Total	Road Dept	K+A
Crashes	0	0	0
Density (per mile per year)	0.00	0.00	0.00
Rate (per MVM)	0.00	0.00	0.00

	Value	Critical	Road
ADT Range	198	150≤ADT≤500	★
RD Density	0.000	0.032	
Access Density	5.9	8.0	
Curve Critical Radius Density	0.000	0.084	
Edge Risk	2	2 or 3	★★



Describe Proposed Safety Improvements

Description	Type	Cost per mi	Mileage	Cost	Notes - Qualifies for edge line rumble.
4" Edge Lines	Proactive	\$400	2.7	\$1,080	
6" Edge Lines	Proactive	\$650	0.0	\$0	
Edge Rumble Strip	Proactive	\$3,500	0.0	\$0	
Ground In Wet-Reflective Markings	Proactive	\$8,500	0.0	\$0	
Center Line Rumble Strip	Proactive	\$3,000	0.0	\$0	
6" Center Line	Proactive	\$650	0.0	\$0	

Project Cost Estimate (attach detailed copy)

Proposed Year of Construction

Federal Funds	\$972
Local Match (10% of Total project cost)	\$108
Total Project Cost	\$1,080

NDDOT Central Office Only

Project Accepted? Yes No Reference Number ID Number

Notes

Page: 5
Segment ID: 6.02
Date: 10/23/2013

HIGHWAY SAFETY IMPROVEMENT PROGRAM (HSIP) PROJECT APPLICATION

North Dakota Department of Transportation Programming
SFN 59959 (06-2011)

Cavalier 39 from 79th Street to ND 66

Agency Name: Cavalier County
Contact Name: Terry Johnston
Email Address: tjohnsto@nd.gov

ND DOT District: 3
Telephone Number: 701-256-2161

Please attach a location map(s). You may use additional sheets to further describe your project

Location Description

Start: 79th Street
End: ND 66
Facility Type: 2-lane
ADT: 85
Road Type Rural Paved
County Road Cavalier 39

Lane Width: 12'
Speed Limit: High
Shoulder Width: 2'
Shoulder Type: Gravel
Length (miles): 5.5
Rumble Installed: No

SHSP Emphasis Area (check all that apply)

- Reduce Alcohol Impaired Driving
- Increase the Use of Safety Restraints for all Occupants
- Younger Driver/Older Driver Safety
- Curb Aggressive Driving
- Improvements to Address Lane Departure Crashes
- Enhancing Emergency Medical Capabilities to Increase Survivability
- Improve Intersection Safety

Describe Current Safety Issues & Systemic Ranking Review

North Dakota Crashes, 2008-2012

5 years

	Total	Road Dept	K+A
Crashes	1	0	0
Density (per mile per year)	0.04	0.00	0.00
Rate (per MVM)	1.17	0.00	0.00

	Value	Critical	Road
ADT Range	85	150 ≤ ADT ≤ 500	
RD Density	0.000	0.032	
Access Density	18.6	8.0	★
Curve Critical Radius Density	0.000	0.084	
Edge Risk	2	2 or 3	★
			★★



Describe Proposed Safety Improvements

Description	Type	Cost per mi	Mileage	Cost	Notes -
4" Edge Lines	Proactive	\$400	5.5	\$2,200	
6" Edge Lines	Proactive	\$650	0.0	\$0	
Edge Rumble Strip	Proactive	\$3,500	0.0	\$0	
Ground In Wet-Reflective Markings	Proactive	\$8,500	0.0	\$0	
Center Line Rumble Strip	Proactive	\$3,000	0.0	\$0	
6" Center Line	Proactive	\$650	0.0	\$0	

Project Cost Estimate (attach detailed copy)

Proposed Year of Construction

Federal Funds	\$1,980
Local Match (10% of Total project cost)	\$220
Total Project Cost	\$2,200

NDDOT Central Office Only

Project Accepted? Yes No Reference Number ID Number

Notes

Page: 6
Segment ID: 39.01
Date: 10/23/2013

HIGHWAY SAFETY IMPROVEMENT PROGRAM (HSIP) PROJECT APPLICATION

North Dakota Department of Transportation Programming
SFN 59959 (06-2011)

Cavalier 13 from County Line to ND 66

Agency Name: Cavalier County
Contact Name: Terry Johnston
Email Address: tjohnsto@nd.gov

ND DOT District: 3
Telephone Number: 701-256-2161

Please attach a location map(s). You may use additional sheets to further describe your project

Location Description

Start: County Line
End: ND 66
Facility Type: 2-lane
ADT: 70
Road Type Rural Paved
County Road Cavalier 13

Lane Width: 12'
Speed Limit: High
Shoulder Width: 2'
Shoulder Type: Gravel
Length (miles): 7.0
Rumble Installed: No

- SHSP Emphasis Area (check all that apply)
- Reduce Alcohol Impaired Driving
 - Increase the Use of Safety Restraints for all Occupants
 - Younger Driver/Older Driver Safety
 - Curb Aggressive Driving
 - Improvements to Address Lane Departure Crashes
 - Enhancing Emergency Medical Capabilities to Increase Survivability
 - Improve Intersection Safety

Describe Current Safety Issues & Systemic Ranking Review

North Dakota Crashes, 2008-2012

5 years

	Total	Road Dept	K+A
Crashes	1	0	0
Density (per mile per year)	0.03	0.00	0.00
Rate (per MVM)	1.12	0.00	0.00

	Value	Critical	Road
ADT Range	70	150≤ADT≤500	
RD Density	0.000	0.032	
Access Density	7.2	8.0	
Curve Critical Radius Density	0.288	0.084	★
Edge Risk	2	2 or 3	★★



Describe Proposed Safety Improvements

Description	Type	Cost per mi	Mileage	Cost	Notes - Curve and intersection projects suggested on other sheets
4" Edge Lines	Proactive	\$400	7.0	\$2,800	
6" Edge Lines	Proactive	\$650	0.0	\$0	
Edge Rumble Strip	Proactive	\$3,500	0.0	\$0	
Ground In Wet-Reflective Markings	Proactive	\$8,500	0.0	\$0	
Center Line Rumble Strip	Proactive	\$3,000	0.0	\$0	
6" Center Line	Proactive	\$650	0.0	\$0	

Project Cost Estimate (attach detailed copy)

Proposed Year of Construction

Federal Funds	\$2,520
Local Match (10% of Total project cost)	\$280
Total Project Cost	\$2,800

NDDOT Central Office Only

Project Accepted? Yes No Reference Number ID Number

Notes

Page: 7
Segment ID: 13.01
Date: 10/23/2013

HIGHWAY SAFETY IMPROVEMENT PROGRAM (HSIP) PROJECT APPLICATION

North Dakota Department of Transportation Programming
SFN 59959 (06-2011)

Cavalier 17 from ND 66/Loma to ND 5

Agency Name: Cavalier County
Contact Name: Terry Johnston
Email Address: tjohnsto@nd.gov

ND DOT District: 3
Telephone Number: 701-256-2161

Please attach a location map(s). You may use additional sheets to further describe your project

Location Description

Start: ND 66/Loma
End: ND 5
Facility Type: 2-lane
ADT: 53
Road Type Rural Paved
County Road Cavalier 17

Lane Width: 12'
Speed Limit: High
Shoulder Width: 2'
Shoulder Type: Gravel
Length (miles): 9.1
Rumble Installed: No

SHSP Emphasis Area (check all that apply)

- Reduce Alcohol Impaired Driving
- Increase the Use of Safety Restraints for all Occupants
- Younger Driver/Older Driver Safety
- Curb Aggressive Driving
- Improvements to Address Lane Departure Crashes
- Enhancing Emergency Medical Capabilities to Increase Survivability
- Improve Intersection Safety

Describe Current Safety Issues & Systemic Ranking Review

North Dakota Crashes, 2008-2012

5 years

	Total	Road Dept	K+A
Crashes	0	0	0
Density (per mile per year)	0.00	0.00	0.00
Rate (per MVM)	0.00	0.00	0.00

	Value	Critical	Road
ADT Range	53	150≤ADT≤500	
RD Density	0.000	0.032	
Access Density	6.7	8.0	
Curve Critical Radius Density	0.219	0.084	★
Edge Risk	2	2 or 3	★
			★★



Describe Proposed Safety Improvements

Description	Type	Cost per mi	Mileage	Cost	Notes - Intersection projects suggested on other sheets
4" Edge Lines	Proactive	\$400	9.1	\$3,640	
6" Edge Lines	Proactive	\$650	0.0	\$0	
Edge Rumble Strip	Proactive	\$3,500	0.0	\$0	
Ground In Wet-Reflective Markings	Proactive	\$8,500	0.0	\$0	
Center Line Rumble Strip	Proactive	\$3,000	0.0	\$0	
6" Center Line	Proactive	\$650	0.0	\$0	

Project Cost Estimate (attach detailed copy)

Proposed Year of Construction

Federal Funds	\$3,276
Local Match (10% of Total project cost)	\$364
Total Project Cost	\$3,640

NDDOT Central Office Only

Project Accepted? Yes No Reference Number ID Number

Notes

Page: 8
Segment ID: 17.02
Date: 10/23/2013

HIGHWAY SAFETY IMPROVEMENT PROGRAM (HSIP) PROJECT APPLICATION

North Dakota Department of Transportation Programming
SFN 59959 (06-2011)

Cavalier 26 from ND 1 to Cavalier 502.01/Road to Nekoma

Agency Name: Cavalier County
Contact Name: Terry Johnston
Email Address: tjohnsto@nd.gov

ND DOT District: 3
Telephone Number: 701-256-2161

Please attach a location map(s). You may use additional sheets to further describe your project

Location Description

Start: ND 1
End: Cavalier 502.01/Road to Neki
Facility Type: 2-lane
ADT: 250
Road Type Rural Paved
County Road Cavalier 26

Lane Width: 12'
Speed Limit: High
Shoulder Width: 6'
Shoulder Type: Paved
Length (miles): 0.6
Rumble Installed: No

- SHSP Emphasis Area (check all that apply)
- Reduce Alcohol Impaired Driving
 - Increase the Use of Safety Restraints for all Occupants
 - Younger Driver/Older Driver Safety
 - Curb Aggressive Driving
 - Improvements to Address Lane Departure Crashes
 - Enhancing Emergency Medical Capabilities to Increase Survivability
 - Improve Intersection Safety

Describe Current Safety Issues & Systemic Ranking Review

North Dakota Crashes, 2008-2012

5 years

	Total	Road Dept	K+A
Crashes	0	0	0
Density (per mile per year)	0.00	0.00	0.00
Rate (per MVM)	0.00	0.00	0.00

	Value	Critical	Road
ADT Range	250	150≤ADT≤500	★
RD Density	0.000	0.032	
Access Density	14.4	8.0	★
Curve Critical Radius Density	0.000	0.084	
Edge Risk	1	2 or 3	★★



Describe Proposed Safety Improvements

Description	Type	Cost per mi	Mileage	Cost	Notes - Qualifies for edge line rumble.
4" Edge Lines	Proactive	\$400	0.0	\$0	
6" Edge Lines	Proactive	\$650	0.6	\$390	
Edge Rumble Strip	Proactive	\$3,500	0.0	\$0	
Ground In Wet-Reflective Markings	Proactive	\$8,500	0.0	\$0	
Center Line Rumble Strip	Proactive	\$3,000	0.0	\$0	
6" Center Line	Proactive	\$650	0.0	\$0	

Project Cost Estimate (attach detailed copy)

Proposed Year of Construction

Federal Funds	\$351
Local Match (10% of Total project cost)	\$39
Total Project Cost	\$390

NDDOT Central Office Only

Project Accepted?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Reference Number		ID Number	
Notes					

Page: 9
Segment ID: 26.01
Date: 10/23/2013

HIGHWAY SAFETY IMPROVEMENT PROGRAM (HSIP) PROJECT APPLICATION

North Dakota Department of Transportation Programming
SFN 59959 (06-2011)

Cavalier 55 from ND 1 to Cavalier 39

Agency Name: Cavalier County
Contact Name: Terry Johnston
Email Address: tjohnsto@nd.gov

ND DOT District: 3
Telephone Number: 701-256-2161

Please attach a location map(s). You may use additional sheets to further describe your project

Location Description

Start: ND 1
End: Cavalier 39
Facility Type: 2-lane
ADT: 145
Road Type Rural Paved
County Road Cavalier 55

Lane Width: 12'
Speed Limit: High
Shoulder Width: 1'
Shoulder Type: Paved
Length (miles): 10.6
Rumble Installed: No

- SHSP Emphasis Area (check all that apply)
- Reduce Alcohol Impaired Driving
 - Increase the Use of Safety Restraints for all Occupants
 - Younger Driver/Older Driver Safety
 - Curb Aggressive Driving
 - Improvements to Address Lane Departure Crashes
 - Enhancing Emergency Medical Capabilities to Increase Survivability
 - Improve Intersection Safety

Describe Current Safety Issues & Systemic Ranking Review

North Dakota Crashes, 2008-2012

5 years

	Total	Road Dept	K+A
Crashes	3	2	0
Density (per mile per year)	0.06	0.04	0.00
Rate (per MVM)	1.07	0.72	0.00

	Value	Critical	Road
ADT Range	145	150 ≤ ADT ≤ 500	
RD Density	0.038	0.032	★
Access Density	6.6	8.0	
Curve Critical Radius Density	0.567	0.084	★
Edge Risk	1	2 or 3	★★



Describe Proposed Safety Improvements

Description	Type	Cost per mi	Mileage	Cost	Notes - Qualifies for edge line rumble. Curve projects suggested on other sheets.
4" Edge Lines	Proactive	\$400	10.6	\$4,240	
6" Edge Lines	Proactive	\$650	0.0	\$0	
Edge Rumble Strip	Proactive	\$3,500	0.0	\$0	
Ground In Wet-Reflective Markings	Proactive	\$8,500	0.0	\$0	
Center Line Rumble Strip	Proactive	\$3,000	0.0	\$0	
6" Center Line	Proactive	\$650	0.0	\$0	

Project Cost Estimate (attach detailed copy)

Proposed Year of Construction

Federal Funds	\$3,816
Local Match (10% of Total project cost)	\$424
Total Project Cost	\$4,240

NDDOT Central Office Only

Project Accepted? Yes No Reference Number _____ ID Number _____

Notes

Page: 10
Segment ID: 55.01
Date: 10/23/2013

Cavalier County Curves

Curve Count	ID	Corridor	Segment	Start	End	Curve Advisory Sign	Speed Advisory Sign	Chevrons	Crashes				Radius (ft)	ADT	Intersection on Curve	Visual Trap	Speed Limit	Risk Ranking	Notes
									Total	Total Severe	K	A							
1	06B	6.04	Cavalier 6	Cavalier 13/Hanna CL	Cavalier 17	No	No	No	-	-	-	-	950	120	Yes	Yes	High	***	
2	13A	13.01	Cavalier 13	County Line	ND 66	No	No	No	-	-	-	-	830	70	Yes	Yes	High	***	
3	13B	13.01	Cavalier 13	County Line	ND 66	No	No	No	-	-	-	-	810	70	Yes	Yes	High	***	
4	17C	17.02	Cavalier 17	ND 66/Loma	ND 5	No	No	No	-	-	-	-	880	53	Yes	No	High	**	
5	17D	17.02	Cavalier 17	ND 66/Loma	ND 5	No	No	No	-	-	-	-	830	53	Yes	No	High	**	
6	039A	39.02	Cavalier 39	ND 66	ND 5	Yes	Yes	No	-	-	-	-	1130	290	Yes	No	High	**	
7	039B	39.02	Cavalier 39	ND 66	ND 5	Yes	Yes	No	-	-	-	-	1300	290	Yes	No	High	*	
8	55A	55.01	Cavalier 55	ND 1	Cavalier 39	No	No	No	1	-	-	-	1000	145	Yes	Yes	High	***	
9	55B	55.01	Cavalier 55	ND 1	Cavalier 39	No	No	No	-	-	-	-	920	145	No	No	High	*	
10	55C	55.01	Cavalier 55	ND 1	Cavalier 39	No	No	No	-	-	-	-	960	145	No	No	High	*	
11	55D	55.01	Cavalier 55	ND 1	Cavalier 39	No	No	No	-	-	-	-	730	145	No	No	High	*	
12	55E	55.01	Cavalier 55	ND 1	Cavalier 39	No	No	No	-	-	-	-	1970	145	Yes	No	High	*	
13	55F	55.01	Cavalier 55	ND 1	Cavalier 39	No	No	No	1	-	-	-	1200	145	Yes	No	High	**	

2
Critical Ranges
Radius 500 1,200
ADT 350 650

Stars	Total	
	#	%
*****	0	0%
****	0	0%
***	4	31%
**	4	31%
*	5	38%
	0	0%
	13	100%

HIGHWAY SAFETY IMPROVEMENT PROGRAM (HSIP) PROJECT APPLICATION

North Dakota Department of Transportation Programming
SFN 59959 (06-2011)

Curves on Cavalier 6 from Cavalier 13/Hanna CL to Cavalier 17

Agency Name: Cavalier County
Contact Name: Terry Johnston
Email Address: tjohnsto@nd.gov

ND DOT District: 3
Telephone Number: 701-256-2161

Please attach a location map(s). You may use additional sheets to further describe your project.

Location Description (Corridor Containing Curves)

Start: Cavalier 13/Hanna CL End: Cavalier 17 Facility Type: 2-lane ADT: 120 Road Type Rural Paved County Road Cavalier 6	Lane Width: 12' Speed Limit: High Shoulder Width: 2' Shoulder Type: Gravel Length (miles): 3.9 Rumble Installed: No	SHSP Emphasis Area (check all that apply) <input type="checkbox"/> Reduce Alcohol Impaired Driving <input type="checkbox"/> Increase the Use of Safety Restraints for all Occupants <input type="checkbox"/> Younger Driver/Older Driver Safety <input type="checkbox"/> Curb Aggressive Driving <input checked="" type="checkbox"/> Improvements to Address Lane Departure Crashes <input type="checkbox"/> Enhancing Emergency Medical Capabilities to Increase Survivability <input type="checkbox"/> Improve Intersection Safety
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Describe Current Safety Issues & Systemic Ranking Review

North Dakota Crashes, 2008-2012

5 years

Curve ID	K	A	Radius (ft)	ADT	Intersection on Curve	Visual Trap	Risk Ranking	Proximity or Existing Chevrons	High Priority Segment + Critical Radius	Sign Improvement Project	Shoulder Paving Project	Shoulder Rumble Strip Project	Advance Horizontal Alignment Warning Sign	Advisory Speed Plaque
06B	0	0	950	120	Yes	Yes	★★★	-	x	Chevron	-	-	x	50

*Curve numbering not consecutive, as some curves may have been removed from further analysis because a large radius, located on a gravel road, etc

Ranking Criteria

Criteria	Curves are selected for project if:
Severe Crashes > 0	- 3 or more *s
Radius 500 to 1200	- x in Proximity or Existing Chevron column
ADT 350 to 650	- within Critical Radius
Intersection on Curve Yes	
Visual Trap Yes	

Describe Proposed Safety Improvements

Description	Type	Unit Cost	Quantity	Total cost	Notes - Segment projects suggested on other sheets.
Chevrons	Proactive	\$3,300 per curve	1	\$3,300	
Arrow Board Only	Proactive	\$500 per curve	0	\$0	
Advance Warning Sign/Speed Advisory Plaque	Proactive	\$800 per curve	1	\$800	
Shoulder Rumble Strip	Proactive	\$3,000 per mile	.0 miles	\$0	
Shoulder Paving	Proactive	\$37,000 per mile	.0 miles	\$0	
				\$4,100	

Project Cost Estimate (attach detailed copy)

Proposed Year of Construction

Federal Funds	\$3,690
Local Match (10% of Total project cost)	\$410
Total Project Cost	\$4,100

NDDOT Central Office Only

Project Accepted? <input type="checkbox"/> Yes <input type="checkbox"/> No	Reference Number	ID Number
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Notes

HIGHWAY SAFETY IMPROVEMENT PROGRAM (HSIP) PROJECT APPLICATION

North Dakota Department of Transportation Programming
SFN 59959 (06-2011)

Curves on Cavalier 13 from County Line to ND 66

Agency Name: Cavalier County
Contact Name: Terry Johnston
Email Address: tjohnsto@nd.gov

ND DOT District: 3
Telephone Number: 701-256-2161

Please attach a location map(s). You may use additional sheets to further describe your project.

Location Description (Corridor Containing Curves)

Start: County Line End: ND 66 Facility Type: 2-lane ADT: 70 Road Type Rural Paved County Road Cavalier 13	Lane Width: 12' Speed Limit: High Shoulder Width: 2' Shoulder Type: Gravel Length (miles): 7.0 Rumble Installed: No	<input type="checkbox"/> SHSP Emphasis Area (check all that apply) <input type="checkbox"/> Reduce Alcohol Impaired Driving <input type="checkbox"/> Increase the Use of Safety Restraints for all Occupants <input type="checkbox"/> Younger Driver/Older Driver Safety <input type="checkbox"/> Curb Aggressive Driving <input checked="" type="checkbox"/> Improvements to Address Lane Departure Crashes <input type="checkbox"/> Enhancing Emergency Medical Capabilities to Increase Survivability <input type="checkbox"/> Improve Intersection Safety
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Describe Current Safety Issues & Systemic Ranking Review

North Dakota Crashes, 2008-2012

5 years

Curve ID	K	A	Radius (ft)	ADT	Intersection on Curve	Visual Trap	Risk Ranking	Proximity or Existing Chevrons	High Priority Segment + Critical Radius	Sign Improvement Project	Shoulder Paving Project	Shoulder Rumble Strip Project	Advance Horizontal Alignment Warning Sign	Advisory Speed Plaque
13A	0	0	830	70	Yes	Yes	★★★	-	x	Chevron	-	-	x	45
13B	0	0	810	70	Yes	Yes	★★★	-	x	Chevron	-	-	x	45

*Curve numbering not consecutive, as some curves may have been removed from further analysis because a large radius, located on a gravel road, etc

Ranking Criteria

Criteria	Curves are selected for project if:
Severe Crashes > 0	- 3 or more *s
Radius 500 to 1200	- x in Proximity or Existing Chevron column
ADT 350 to 650	- within Critical Radius
Intersection on Curve Yes	
Visual Trap Yes	

Describe Proposed Safety Improvements

Description	Type	Unit Cost	Quantity	Total cost	Notes - Segment and intersection projects suggested on other sheets.
Chevrons	Proactive	\$3,300 per curve	2	\$6,600	
Arrow Board Only	Proactive	\$500 per curve	0	\$0	
Advance Warning Sign/Speed Advisory Plaque	Proactive	\$800 per curve	2	\$1,600	
Shoulder Rumble Strip	Proactive	\$3,000 per mile	.0 miles	\$0	
Shoulder Paving	Proactive	\$37,000 per mile	.0 miles	\$0	
				\$8,200	

Project Cost Estimate (attach detailed copy)

Proposed Year of Construction

Federal Funds	\$7,380
Local Match (10% of Total project cost)	\$820
Total Project Cost	\$8,200

NDDOT Central Office Only

Project Accepted? <input type="checkbox"/> Yes <input type="checkbox"/> No	Reference Number	ID Number
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Notes

HIGHWAY SAFETY IMPROVEMENT PROGRAM (HSIP) PROJECT APPLICATION

North Dakota Department of Transportation Programming
SFN 59959 (06-2011)

Curves on Cavalier 17 from ND 66/Loma to ND 5

Agency Name: Cavalier County
Contact Name: Terry Johnston
Email Address: tjohnsto@nd.gov

ND DOT District: 3
Telephone Number: 701-256-2161

Please attach a location map(s). You may use additional sheets to further describe your project.

Location Description (Corridor Containing Curves)

Start: ND 66/Loma End: ND 5 Facility Type: 2-lane ADT: 53 Road Type Rural Paved County Road Cavalier 17	Lane Width: 12' Speed Limit: High Shoulder Width: 2' Shoulder Type: Gravel Length (miles): 9.1 Rumble Installed: No	<input type="checkbox"/> SHSP Emphasis Area (check all that apply) <input type="checkbox"/> Reduce Alcohol Impaired Driving <input type="checkbox"/> Increase the Use of Safety Restraints for all Occupants <input type="checkbox"/> Younger Driver/Older Driver Safety <input type="checkbox"/> Curb Aggressive Driving <input checked="" type="checkbox"/> Improvements to Address Lane Departure Crashes <input type="checkbox"/> Enhancing Emergency Medical Capabilities to Increase Survivability <input type="checkbox"/> Improve Intersection Safety
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Describe Current Safety Issues & Systemic Ranking Review

North Dakota Crashes, 2008-2012

5 years

Curve ID	K	A	Radius (ft)	ADT	Intersection on Curve	Visual Trap	Risk Ranking	Proximity or Existing Chevrons	High Priority Segment + Critical Radius	Sign Improvement Project	Shoulder Paving Project	Shoulder Rumble Strip Project	Advance Horizontal Alignment Warning Sign	Advisory Speed Plaque
17C	0	0	880	53	Yes	No	**	-	x	Chevron	-	-	x	45
17D	0	0	830	53	Yes	No	**	-	x	Chevron	-	-	x	45

*Curve numbering not consecutive, as some curves may have been removed from further analysis because a large radius, located on a gravel road, etc

Ranking Criteria

Criteria	Curves are selected for project if:
Severe Crashes > 0	- 3 or more *s
Radius 500 to 1200	- x in Proximity or Existing Chevron column
ADT 350 to 650	- within Critical Radius
Intersection on Curve Yes	
Visual Trap Yes	

Describe Proposed Safety Improvements

Description	Type	Unit Cost	Quantity	Total cost	Notes - Segment and intersection projects suggested on other sheets.
Chevrons	Proactive	\$3,300 per curve	2	\$6,600	
Arrow Board Only	Proactive	\$500 per curve	0	\$0	
Advance Warning Sign/Speed Advisory Plaque	Proactive	\$800 per curve	2	\$1,600	
Shoulder Rumble Strip	Proactive	\$3,000 per mile	.0 miles	\$0	
Shoulder Paving	Proactive	\$37,000 per mile	.0 miles	\$0	
				\$8,200	

Project Cost Estimate (attach detailed copy)

Proposed Year of Construction

Federal Funds	\$7,380
Local Match (10% of Total project cost)	\$820
Total Project Cost	\$8,200

NDDOT Central Office Only

Project Accepted? <input type="checkbox"/> Yes <input type="checkbox"/> No	Reference Number	ID Number
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Notes

HIGHWAY SAFETY IMPROVEMENT PROGRAM (HSIP) PROJECT APPLICATION

North Dakota Department of Transportation Programming
SFN 59959 (06-2011)

Curves on Cavalier 39 from ND 66 to ND 5

Agency Name: Cavalier County
Contact Name: Terry Johnston
Email Address: tjohnsto@nd.gov

ND DOT District: 3
Telephone Number: 701-256-2161

Please attach a location map(s). You may use additional sheets to further describe your project.

Location Description (Corridor Containing Curves)

Start: ND 66 End: ND 5 Facility Type: 2-lane ADT: 290 Road Type Rural Paved County Road Cavalier 39	Lane Width: 12' Speed Limit: High Shoulder Width: 1' Shoulder Type: Paved Length (miles): 9.1 Rumble Installed: No	<input type="checkbox"/> SHSP Emphasis Area (check all that apply) <input type="checkbox"/> Reduce Alcohol Impaired Driving <input type="checkbox"/> Increase the Use of Safety Restraints for all Occupants <input type="checkbox"/> Younger Driver/Older Driver Safety <input type="checkbox"/> Curb Aggressive Driving <input checked="" type="checkbox"/> Improvements to Address Lane Departure Crashes <input type="checkbox"/> Enhancing Emergency Medical Capabilities to Increase Survivability <input type="checkbox"/> Improve Intersection Safety
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Describe Current Safety Issues & Systemic Ranking Review

North Dakota Crashes, 2008-2012

5 years

Curve ID	K	A	Radius (ft)	ADT	Intersection on Curve	Visual Trap	Risk Ranking	Proximity or Existing Chevrons	High Priority Segment + Critical Radius	Sign Improvement Project	Shoulder Paving Project	Shoulder Rumble Strip Project	Advance Horizontal Alignment Warning Sign	Advisory Speed Plaque
039A	0	0	1130	290	Yes	No	**	-	x	Chevron	-	-	-	-
039B	0	0	1300	290	Yes	No	*	-	-	-	-	-	-	-

*Curve numbering not consecutive, as some curves may have been removed from further analysis because a large radius, located on a gravel road, etc

Ranking Criteria

Criteria	Curves are selected for project if:
Severe Crashes > 0	- 3 or more *s
Radius 500 to 1200	- x in Proximity or Existing Chevron column
ADT 350 to 650	- within Critical Radius
Intersection on Curve Yes	
Visual Trap Yes	

Describe Proposed Safety Improvements

Description	Type	Unit Cost	Quantity	Total cost	Notes - Segment and intersection projects suggested on other sheets.
Chevrons	Proactive	\$3,300 per curve	1	\$3,300	
Arrow Board Only	Proactive	\$500 per curve	0	\$0	
Advance Warning Sign/Speed Advisory Plaque	Proactive	\$800 per curve	0	\$0	
Shoulder Rumble Strip	Proactive	\$3,000 per mile	.0 miles	\$0	
Shoulder Paving	Proactive	\$37,000 per mile	.0 miles	\$0	
				\$3,300	

Project Cost Estimate (attach detailed copy)

Proposed Year of Construction

Federal Funds	\$2,970
Local Match (10% of Total project cost)	\$330
Total Project Cost	\$3,300

NDDOT Central Office Only

Project Accepted? <input type="checkbox"/> Yes <input type="checkbox"/> No	Reference Number	ID Number
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Notes

HIGHWAY SAFETY IMPROVEMENT PROGRAM (HSIP) PROJECT APPLICATION

North Dakota Department of Transportation Programming
SFN 59959 (06-2011)

Curves on Cavalier 55 from ND 1 to Cavalier 39

Agency Name: Cavalier County
Contact Name: Terry Johnston
Email Address: tjohnsto@nd.gov

ND DOT District: 3
Telephone Number: 701-256-2161

Please attach a location map(s). You may use additional sheets to further describe your project.

Location Description (Corridor Containing Curves)

Start: ND 1 End: Cavalier 39 Facility Type: 2-lane ADT: 145 Road Type Rural Paved County Road Cavalier 55	Lane Width: 12' Speed Limit: High Shoulder Width: 1' Shoulder Type: Paved Length (miles): 10.6 Rumble Installed: No	<input type="checkbox"/> SHSP Emphasis Area (check all that apply) <input type="checkbox"/> Reduce Alcohol Impaired Driving <input type="checkbox"/> Increase the Use of Safety Restraints for all Occupants <input type="checkbox"/> Younger Driver/Older Driver Safety <input type="checkbox"/> Curb Aggressive Driving <input checked="" type="checkbox"/> Improvements to Address Lane Departure Crashes <input type="checkbox"/> Enhancing Emergency Medical Capabilities to Increase Survivability <input type="checkbox"/> Improve Intersection Safety
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Describe Current Safety Issues & Systemic Ranking Review

North Dakota Crashes, 2008-2012

5 years

Curve ID	K	A	Radius (ft)	ADT	Intersection on Curve	Visual Trap	Risk Ranking	Proximity or Existing Chevrons	High Priority Segment + Critical Radius	Sign Improvement Project	Shoulder Paving Project	Shoulder Rumble Strip Project	Advance Horizontal Alignment Warning Sign	Advisory Speed Plaque
55A	0	0	1000	145	Yes	Yes	***	-	x	Chevron	-	-	x	50
55B	0	0	920	145	No	No	*	x	x	Chevron	-	-	x	50
55C	0	0	960	145	No	No	*	x	x	Chevron	-	-	x	50
55D	0	0	730	145	No	No	*	x	x	Chevron	-	-	x	45
55E	0	0	1970	145	Yes	No	*	x	-	-	-	-	-	-
55F	0	0	1200	145	Yes	No	**	x	x	Chevron	-	-	-	-

*Curve numbering not consecutive, as some curves may have been removed from further analysis because a large radius, located on a gravel road, etc

Ranking Criteria

Criteria	Curves are selected for project if:
Severe Crashes > 0	- 3 or more *s
Radius 500 to 1200	- x in Proximity or Existing Chevron column
ADT 350 to 650	- within Critical Radius
Intersection on Curve Yes	
Visual Trap Yes	

Describe Proposed Safety Improvements

Description	Type	Unit Cost	Quantity	Total cost	Notes - Segment projects suggested on other sheets.
Chevrons	Proactive	\$3,300 per curve	5	\$16,500	
Arrow Board Only	Proactive	\$500 per curve	0	\$0	
Advance Warning Sign/Speed Advisory Plaque	Proactive	\$800 per curve	4	\$3,200	
Shoulder Rumble Strip	Proactive	\$3,000 per mile	.0 miles	\$0	
Shoulder Paving	Proactive	\$37,000 per mile	.0 miles	\$0	
				\$19,700	

Project Cost Estimate (attach detailed copy)

Proposed Year of Construction

Federal Funds	\$17,730
Local Match (10% of Total project cost)	\$1,970
Total Project Cost	\$19,700

NDDOT Central Office Only

Project Accepted?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Reference Number	ID Number
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Notes

**Cavalier County
Summary of Rural Intersection Projects**

Page	Intersection ID	Description	Risk Ranking	Close Median	Install Street Lights	Signs & Markings	Project Cost (\$)
1	6.02	Cavalier 6 and ND 20 (80th Ave) North	★★★	-	-	x	\$1,150
2	26.01	Cavalier 26 and ND 1	★★★	x	-	x	\$28,700
3	6.07	Cavalier 6 and ND 1	★★	-	-	x	\$1,150
4	13.03	Cavalier 13 and ND 66 (East)	★★	-	-	x	\$3,000
5	13.04	Cavalier 13 and ND 66 (West)	★★	-	-	x	\$2,800
6	17.04	Cavalier 17 and ND 66 (West)	★★	-	-	x	\$3,250
7	17.05	Cavalier 17 and ND 5	★★	-	-	x	\$3,700
8	39.02	Cavalier 39 and ND 5	★★	-	x	x	\$9,000
9	45.01	Cavalier 45 and ND 66 (west)	★★	-	-	x	\$2,550
				1	1	10	\$55,300

**Cavalier County
Rural Intersection Listing**

Int #	Intersection Description	Skew	On/Near Curve	Development	RR Xing	ADT	Previous STOP (>5mi)	Total Crashes	Cross Product ADT >100,000	Crash Cost
6.01	Cavalier 6 and ND 20 (80th Ave) South	No	No	No	No	172	No	0	No	\$ -
6.02	Cavalier 6 and ND 20 (80th Ave) North	Yes	Yes	No	No	100	Yes	0	No	\$ -
6.03	Cavalier 6 and Cavalier 13	No	No	No	No	213	Yes	0	No	\$ -
6.04	Cavalier 6 and 108th Street	No	No	No	No	140	Yes	0	No	\$ -
6.05	Cavalier 6 and Cavalier 17	No	No	No	No	205	Yes	0	No	\$ -
6.06	Cavalier 6 and Cavalier 23	No	No	No	No	95	Yes	0	No	\$ -
6.07	Cavalier 6 and ND 1	No	No	No	No	265	Yes	1	No	\$ 824,000
12.01	Cavalier 12 and ND 20	No	No	No	No	288	Yes	0	No	\$ -
12.02	Cavalier 12 and Cavalier 13	No	No	No	No	85	Yes	0	No	\$ -
13.01	NOT WITH COUNTY ROAD	No	Yes	No	No	86	0	0	No	\$ -
13.02	NOT WITH COUNTY ROAD	No	Yes	No	No	85	0	0	No	\$ -
13.03	Cavalier 13 and ND 66 (East)	No	No	No	Yes	315	Yes	0	No	\$ -
13.04	Cavalier 13 and ND 66 (West)	No	No	No	Yes	320	Yes	0	No	\$ -
13.05	Cavalier 13 and ND 5	No	No	No	No	643	Yes	0	No	\$ -
17.01	NOT WITH COUNTY ROAD	No	Yes	No	No	37	0	0	No	\$ -
17.02	NOT WITH COUNTY ROAD	No	Yes	No	No	35	0	0	No	\$ -
17.03	Cavalier 17 and ND 66 (East)	No	No	No	No	253	Yes	0	No	\$ -
17.04	Cavalier 17 and ND 66 (West)	No	No	No	Yes	265	Yes	0	No	\$ -
17.05	Cavalier 17 and ND 5	No	No	No	No	915	Yes	0	Yes	\$ -
23.01	Cavalier 23 and ND 5	No	No	No	No	1005	Yes	0	No	\$ -
24.01	Cavalier 24 and Cavalier 39	No	No	No	No	435	Yes	0	No	\$ -
24.02	Cavalier 24 and Cavalier 45	No	No	No	No	54	Yes	0	No	\$ -
24.03	Cavalier 24 (87th Street) and Cavalier 24 (23rd Ave)	No	No	No	No	54	No	0	No	\$ -
24.04	Cavalier 24 (23rd Ave) and Cavalier 24 (88th Street)	No	No	No	No	44	No	1	No	\$ 12,000
26.01	Cavalier 26 and ND 1	Yes	Yes	No	No	765	Yes	0	No	\$ -
26.02	Cavalier 26 and Cavalier 502	No	No	No	No	243	No	0	No	\$ -
26.03	Cavalier 26 and Cavalier 503	No	No	No	No	13	Yes	0	No	\$ -
33.01	Cavalier 33 and ND 66	No	No	No	No	417	Yes	0	No	\$ -
33.02	Cavalier 33 and ND 5	No	No	No	No	1155	Yes	0	No	\$ -
33.03	Cavalier 33 and Cavalier 55	No	No	No	No	110	Yes	0	No	\$ -
39.01	Cavalier 39 and ND 66	No	No	No	No	693	Yes	0	No	\$ -
39.02	Cavalier 39 and ND 5	No	No	No	No	1030	Yes	0	Yes	\$ -
39.03	Cavalier 39 and Cavalier 55	No	No	No	No	187	Yes	0	No	\$ -
45.01	Cavalier 45 and ND 66 (west)	Yes	No	No	No	58	Yes	0	No	\$ -
45.02	Cavalier 45 and ND 66 (east)	No	No	No	No	0	Yes	0	No	\$ -
45.03	Cavalier 45 and ND 5	No	No	No	No	0	Yes	0	No	\$ -
55.01	Cavalier 55 and ND 1	No	No	No	No	473	Yes	0	No	\$ -
503.01	Cavalier 503 and ND 66	No	No	No	No	375	No	0	No	\$ -
506.01	Cavalier 506 and ND 5	No	No	No	No	365	No	0	No	\$ -
507.01	Cavalier 507 and ND 1	No	No	No	No	987	No	0	No	\$ -
508.01	Cavalier 508 and ND 1	No	No	No	No	729	No	0	No	\$ -
510.01	Cavalier 510 and ND 1	No	No	No	No	563	No	0	No	\$ -

**Cavalier County
Rural Intersection Prioritization**

Rank	Int #	Intersection Description	Skew	On/Near Curve	Development	RR Xing	Previous STOP (>5mi)	Total Crashes	Cross Product ADT >100,000	Priority	Crash Cost
1	6.02	Cavalier 6 and ND 20 (80th Ave) North	*	*			*			***	\$ -
2	26.01	Cavalier 26 and ND 1	*	*			*			***	\$ -
3	6.07	Cavalier 6 and ND 1					*	*		**	\$ 824,000
4	13.03	Cavalier 13 and ND 66 (East)				*	*			**	\$ -
5	13.04	Cavalier 13 and ND 66 (West)				*	*			**	\$ -
6	17.04	Cavalier 17 and ND 66 (West)				*	*			**	\$ -
7	17.05	Cavalier 17 and ND 5					*		*	**	\$ -
8	39.02	Cavalier 39 and ND 5					*		*	**	\$ -
9	45.01	Cavalier 45 and ND 66 (west)	*				*			**	\$ -
10	24.04	Cavalier 24 (23rd Ave) and Cavalier 24 (88th Street)						*		*	\$ 12,000
11	6.03	Cavalier 6 and Cavalier 13					*			*	\$ -
12	6.04	Cavalier 6 and 108th Street					*			*	\$ -
13	6.05	Cavalier 6 and Cavalier 17					*			*	\$ -
14	6.06	Cavalier 6 and Cavalier 23					*			*	\$ -
15	12.01	Cavalier 12 and ND 20					*			*	\$ -
16	12.02	Cavalier 12 and Cavalier 13					*			*	\$ -
17	13.01	NOT WITH COUNTY ROAD		*						*	\$ -
18	13.02	NOT WITH COUNTY ROAD		*						*	\$ -
19	13.05	Cavalier 13 and ND 5					*			*	\$ -
20	17.01	NOT WITH COUNTY ROAD		*						*	\$ -
21	17.02	NOT WITH COUNTY ROAD		*						*	\$ -
22	17.03	Cavalier 17 and ND 66 (East)					*			*	\$ -
23	23.01	Cavalier 23 and ND 5					*			*	\$ -
24	24.01	Cavalier 24 and Cavalier 39					*			*	\$ -
25	24.02	Cavalier 24 and Cavalier 45					*			*	\$ -
26	26.03	Cavalier 26 and Cavalier 503					*			*	\$ -
27	33.01	Cavalier 33 and ND 66					*			*	\$ -
28	33.02	Cavalier 33 and ND 5					*			*	\$ -
29	33.03	Cavalier 33 and Cavalier 55					*			*	\$ -
30	39.01	Cavalier 39 and ND 66					*			*	\$ -
31	39.03	Cavalier 39 and Cavalier 55					*			*	\$ -
32	45.02	Cavalier 45 and ND 66 (east)					*			*	\$ -
33	45.03	Cavalier 45 and ND 5					*			*	\$ -
34	55.01	Cavalier 55 and ND 1					*			*	\$ -
35	6.01	Cavalier 6 and ND 20 (80th Ave) South									\$ -
36	24.03	Cavalier 24 (87th Street) and Cavalier 24 (23rd Ave)									\$ -
37	26.02	Cavalier 26 and Cavalier 502									\$ -
38	503	Cavalier 503 and ND 66									\$ -
39	506	Cavalier 506 and ND 5									\$ -
40	507	Cavalier 507 and ND 1									\$ -
41	508.01	Cavalier 508 and ND 1									\$ -
42	510	Cavalier 510 and ND 1									\$ -

Totals Total Stars -- 3 6 0 3 29 2 2
 % That Gets Star -- 7% 14% 0% 7% 69% 5% 5%

Stars	#	%
*****	0	0%
*****	0	0%
*****	0	0%
*****	0	0%
****	2	5%
***	7	17%
**	25	60%
*	8	19%
-	42	100%

- Stars**
- Skew - If intersection is skewed at an angle of 20 degrees or greater.
 - On/Near Curve - If intersection is on or within 1,000 feet of curve.
 - Development - If intersection aerial shows a commercial development with access near intersection.
 - RR Xing - If intersection has a railroad crossing on any approach within 500 feet.
 - Previous STOP (>5 mi) - If vehicles approaching the stop control have not had a previous stop along the roadway within 5 miles
 - Total Crashes - If intersection has at least 1 crash.
 - Cross Product ADT - If intersection has an ADT cross product >100,000

HIGHWAY SAFETY IMPROVEMENT PROGRAM (HSIP) PROJECT APPLICATION

North Dakota Department of Transportation Programming
SFN 59959 (06-2011)

Cavalier 6 and ND 20 (80th Ave) North

Agency Name: Cavalier County

ND DOT District: 3

Contact Name: Terry Johnston

Telephone Number: 701-256-2161

Email Address: tjohnsto@nd.gov

Please attach a location map(s). You may use additional sheets to further describe your project

Location Description

Configuration: T Traffic Control Device: Thru Stop
 Configuration (2): Undivided Street Lights: No
 Urban/Rural: Rural Flashers: No
 County: Cavalier Major Entering ADT: 70
 Entering ADT: 100 Minor Entering ADT: 60

- SHSP Emphasis Area (check all that apply)
- Reduce Alcohol Impaired Driving
 - Increase the Use of Safety Restraints for all Occupants
 - Younger Driver/Older Driver Safety
 - Curb Aggressive Driving
 - Improvements to Address Lane Departure Crashes
 - Enhancing Emergency Medical Capabilities to Increase Survivability
 - Improve Intersection Safety

Describe Current Safety Issues & Systemic Ranking Review

North Dakota Crashes, 2008 - 2012 5 years

	Total	Angle	K+A
Crashes	0	0	0
Rate (per MVM)	0.0	0.0	0.0



	Value	Critical	Risk Ranking
Skew	Yes	Yes	★
On/Near Curve	Yes	Yes	★
Development	No	Yes	
Near RR Crossing	No	Yes	
Distance from previous STOP	Yes	Yes	★
Volume Cross Product	No	≥ 100,000	
Total Crashes	0	>0	
			★★★

Describe Proposed Safety Improvements

Description	Unit Cost	Units	Cost	Notes -
Roundabout	\$1,000,000	per intersection	0	\$0.00
Directional Median	\$750,000	per intersection	0	\$0.00
Mainline Dynamic Warning Sign	\$50,000	per intersection	0	\$0.00
Close Median	\$25,000	per intersection	0	\$0.00
Installing Street Lights	\$6,000	per street light	0	\$0.00
Upgrade Stop Sign	\$350	per sign	1	\$350.00
Upgrade Junction Sign	\$350	per sign	1	\$350.00
Upgrade Stop Ahead Sign	\$450	per sign	1	\$450.00
Upgrade Stop Ahead Marking	\$450	per marking	0	\$0.00
Upgrade Stop Bar	\$250	per marking	0	\$0.00
Review Signs and CST	\$2,450	per intersection	0	\$0.00
			\$1,150.00	

Signs and Markings and Street Light project costs vary by the number of minor legs associated with the intersection.

Project Cost Estimate (attach detailed copy)

Proposed Year of Construction

Federal Funds	\$1,035
Local Match (10% of Total project cost)	\$115
Total Project Cost	\$1,150

NDDOT Central Office Only

Project Accepted? Yes No Reference Number ID Number

Notes

HIGHWAY SAFETY IMPROVEMENT PROGRAM (HSIP) PROJECT APPLICATION

North Dakota Department of Transportation Programming
SFN 59959 (06-2011)

Cavalier 26 and ND 1

Agency Name: Cavalier County

ND DOT District: 3

Contact Name: Terry Johnston

Telephone Number: 701-256-2161

Email Address: tjohnsto@nd.gov

Please attach a location map(s). You may use additional sheets to further describe your project

Location Description

Configuration: X Traffic Control Device: Thru Stop
 Configuration (2): Divided Street Lights: No
 Urban/Rural: Rural Flashers: No
 County: Cavalier Major Entering ADT: 640
 Entering ADT: 765 Minor Entering ADT: 125

- SHSP Emphasis Area (check all that apply)
- Reduce Alcohol Impaired Driving
 - Increase the Use of Safety Restraints for all Occupants
 - Younger Driver/Older Driver Safety
 - Curb Aggressive Driving
 - Improvements to Address Lane Departure Crashes
 - Enhancing Emergency Medical Capabilities to Increase Survivability
 - Improve Intersection Safety

Describe Current Safety Issues & Systemic Ranking Review

North Dakota Crashes, 2008 - 2012 5 years

	Total	Angle	K+A
Crashes	0	0	0
Rate (per MVM)	0.0	0.0	0.0



	Value	Critical	Risk Ranking
Skew	Yes	Yes	★
On/Near Curve	Yes	Yes	★
Development	No	Yes	
Near RR Crossing	No	Yes	
Distance from previous STOP	Yes	Yes	★
Volume Cross Product	No	≥ 100,000	
Total Crashes	0	>0	
			★★★

Describe Proposed Safety Improvements

Description	Unit Cost	Units	Cost	Notes -
Roundabout	\$1,000,000 per intersection	0	\$0.00	
Directional Median	\$750,000 per intersection	0	\$0.00	
Mainline Dynamic Warning Sign	\$50,000 per intersection	0	\$0.00	
Close Median	\$25,000 per intersection	1	\$25,000.00	
Installing Street Lights	\$6,000 per street light	0	\$0.00	
Upgrade Stop Sign	\$350 per sign	2	\$700.00	
Upgrade Junction Sign	\$350 per sign	2	\$700.00	
Upgrade Stop Ahead Sign	\$450 per sign	2	\$900.00	
Upgrade Stop Ahead Marking	\$450 per marking	2	\$900.00	
Upgrade Stop Bar	\$250 per marking	2	\$500.00	
Review Signs and CST	\$2,450 per intersection	0	\$0.00	
			\$28,700.00	

Signs and Markings and Street Light project costs vary by the number of minor legs associated with the intersection.

Project Cost Estimate (attach detailed copy)

Proposed Year of Construction

Federal Funds	\$25,830
Local Match (10% of Total project cost)	\$2,870
Total Project Cost	\$28,700

NDDOT Central Office Only

Project Accepted? Yes No Reference Number ID Number

Notes

HIGHWAY SAFETY IMPROVEMENT PROGRAM (HSIP) PROJECT APPLICATION

North Dakota Department of Transportation Programming
SFN 59959 (06-2011)

Cavalier 6 and ND 1

Agency Name: Cavalier County

Contact Name: Terry Johnston

Email Address: tjohnsto@nd.gov

ND DOT District: 3

Telephone Number: 701-256-2161

Please attach a location map(s). You may use additional sheets to further describe your project

Location Description

Configuration: T Traffic Control Device: Thru Stop
Configuration (2): Undivided Street Lights: No
Urban/Rural: Rural Flashers: No
County: Cavalier Major Entering ADT: 243
Entering ADT: 265 Minor Entering ADT: 45

- SHSP Emphasis Area (check all that apply)
- Reduce Alcohol Impaired Driving
 - Increase the Use of Safety Restraints for all Occupants
 - Younger Driver/Older Driver Safety
 - Curb Aggressive Driving
 - Improvements to Address Lane Departure Crashes
 - Enhancing Emergency Medical Capabilities to Increase Survivability
 - Improve Intersection Safety

Describe Current Safety Issues & Systemic Ranking Review

North Dakota Crashes, 2008 - 2012 5 years

	Total	Angle	K+A
Crashes	1	0	1
Rate (per MVM)	2.1	0.0	2.1



	Value	Critical	Risk Ranking
Skew	No	Yes	
On/Near Curve	No	Yes	
Development	No	Yes	
Near RR Crossing	No	Yes	
Distance from previous STOP	Yes	Yes	★
Volume Cross Product	No	≥ 100,000	
Total Crashes	1	>0	★★

Describe Proposed Safety Improvements

Description	Unit Cost	Units	Cost	Notes -
Roundabout	\$1,000,000	per intersection	0	\$0.00
Directional Median	\$750,000	per intersection	0	\$0.00
Mainline Dynamic Warning Sign	\$50,000	per intersection	0	\$0.00
Close Median	\$25,000	per intersection	0	\$0.00
Installing Street Lights	\$6,000	per street light	0	\$0.00
Upgrade Stop Sign	\$350	per sign	1	\$350.00
Upgrade Junction Sign	\$350	per sign	1	\$350.00
Upgrade Stop Ahead Sign	\$450	per sign	1	\$450.00
Upgrade Stop Ahead Marking	\$450	per marking	0	\$0.00
Upgrade Stop Bar	\$250	per marking	0	\$0.00
Review Signs and CST	\$2,450	per intersection	0	\$0.00
			\$1,150.00	

Signs and Markings and Street Light project costs vary by the number of minor legs associated with the intersection.

Project Cost Estimate (attach detailed copy)

Proposed Year of Construction

Federal Funds	\$1,035
Local Match (10% of Total project cost)	\$115
Total Project Cost	\$1,150

NDDOT Central Office Only

Project Accepted? Yes No Reference Number ID Number

Notes

HIGHWAY SAFETY IMPROVEMENT PROGRAM (HSIP) PROJECT APPLICATION

North Dakota Department of Transportation Programming
SFN 59959 (06-2011)

Cavalier 13 and ND 66 (East)

Agency Name: Cavalier County

Contact Name: Terry Johnston

Email Address: tjohnsto@nd.gov

ND DOT District: 3

Telephone Number: 701-256-2161

Please attach a location map(s). You may use additional sheets to further describe your project

Location Description

Configuration: X Traffic Control Device: Thru Stop
 Configuration (2): Undivided Street Lights: No
 Urban/Rural: Rural Flashers: No
 County: Cavalier Major Entering ADT: 273
 Entering ADT: 315 Minor Entering ADT: 42

- SHSP Emphasis Area (check all that apply)
- Reduce Alcohol Impaired Driving
 - Increase the Use of Safety Restraints for all Occupants
 - Younger Driver/Older Driver Safety
 - Curb Aggressive Driving
 - Improvements to Address Lane Departure Crashes
 - Enhancing Emergency Medical Capabilities to Increase Survivability
 - Improve Intersection Safety

Describe Current Safety Issues & Systemic Ranking Review

North Dakota Crashes, 2008 - 2012 5 years

	Total	Angle	K+A
Crashes	0	0	0
Rate (per MVM)	0.0	0.0	0.0



	Value	Critical	Risk Ranking
Skew	No	Yes	
On/Near Curve	No	Yes	
Development	No	Yes	
Near RR Crossing	Yes	Yes	★
Distance from previous STOP	Yes	Yes	★
Volume Cross Product	No	≥ 100,000	
Total Crashes	0	>0	★★

Describe Proposed Safety Improvements

Description	Unit Cost	Units	Cost	Notes - Segment and curve projects suggested on other sheets.
Roundabout	\$1,000,000 per intersection	0	\$0.00	
Directional Median	\$750,000 per intersection	0	\$0.00	
Mainline Dynamic Warning Sign	\$50,000 per intersection	0	\$0.00	
Close Median	\$25,000 per intersection	0	\$0.00	
Installing Street Lights	\$6,000 per street light	0	\$0.00	
Upgrade Stop Sign	\$350 per sign	2	\$700.00	
Upgrade Junction Sign	\$350 per sign	2	\$700.00	
Upgrade Stop Ahead Sign	\$450 per sign	2	\$900.00	
Upgrade Stop Ahead Marking	\$450 per marking	1	\$450.00	
Upgrade Stop Bar	\$250 per marking	1	\$250.00	
Review Signs and CST	\$2,450 per intersection	0	\$0.00	
			\$3,000.00	

Signs and Markings and Street Light project costs vary by the number of minor legs associated with the intersection.

Project Cost Estimate (attach detailed copy)

Proposed Year of Construction

Federal Funds	\$2,700
Local Match (10% of Total project cost)	\$300
Total Project Cost	\$3,000

NDDOT Central Office Only

Project Accepted? Yes No Reference Number ID Number

Notes

HIGHWAY SAFETY IMPROVEMENT PROGRAM (HSIP) PROJECT APPLICATION

North Dakota Department of Transportation Programming
SFN 59959 (06-2011)

Cavalier 13 and ND 66 (West)

Agency Name: Cavalier County

Contact Name: Terry Johnston

Email Address: tjohnsto@nd.gov

ND DOT District: 3

Telephone Number: 701-256-2161

Please attach a location map(s). You may use additional sheets to further describe your project

Location Description

Configuration: X Traffic Control Device: Thru Stop
 Configuration (2): Undivided Street Lights: No
 Urban/Rural: Rural Flashers: No
 County: Cavalier Major Entering ADT: 303
 Entering ADT: 320 Minor Entering ADT: 18

- SHSP Emphasis Area (check all that apply)
- Reduce Alcohol Impaired Driving
 - Increase the Use of Safety Restraints for all Occupants
 - Younger Driver/Older Driver Safety
 - Curb Aggressive Driving
 - Improvements to Address Lane Departure Crashes
 - Enhancing Emergency Medical Capabilities to Increase Survivability
 - Improve Intersection Safety

Describe Current Safety Issues & Systemic Ranking Review

North Dakota Crashes, 2008 - 2012 5 years

	Total	Angle	K+A
Crashes	0	0	0
Rate (per MVM)	0.0	0.0	0.0



	Value	Critical	Risk Ranking
Skew	No	Yes	
On/Near Curve	No	Yes	
Development	No	Yes	
Near RR Crossing	Yes	Yes	★
Distance from previous STOP	Yes	Yes	★
Volume Cross Product	No	≥ 100,000	
Total Crashes	0	>0	
			★★

Describe Proposed Safety Improvements

Description	Unit Cost	Units	Cost	Notes - .
Roundabout	\$1,000,000 per intersection	0	\$0.00	
Directional Median	\$750,000 per intersection	0	\$0.00	
Mainline Dynamic Warning Sign	\$50,000 per intersection	0	\$0.00	
Close Median	\$25,000 per intersection	0	\$0.00	
Installing Street Lights	\$6,000 per street light	0	\$0.00	
Upgrade Stop Sign	\$350 per sign	2	\$700.00	
Upgrade Junction Sign	\$350 per sign	2	\$700.00	
Upgrade Stop Ahead Sign	\$450 per sign	2	\$900.00	
Upgrade Stop Ahead Marking	\$450 per marking	0	\$0.00	
Upgrade Stop Bar	\$250 per marking	2	\$500.00	
Review Signs and CST	\$2,450 per intersection	0	\$0.00	
			\$2,800.00	

Signs and Markings and Street Light project costs vary by the number of minor legs associated with the intersection.

Project Cost Estimate (attach detailed copy)

Proposed Year of Construction

Federal Funds	\$2,520
Local Match (10% of Total project cost)	\$280
Total Project Cost	\$2,800

NDDOT Central Office Only

Project Accepted? Yes No Reference Number ID Number

Notes

HIGHWAY SAFETY IMPROVEMENT PROGRAM (HSIP) PROJECT APPLICATION

North Dakota Department of Transportation Programming
SFN 59959 (06-2011)

Cavalier 17 and ND 66 (West)

Agency Name: Cavalier County

Contact Name: Terry Johnston

Email Address: tjohnsto@nd.gov

ND DOT District: 3

Telephone Number: 701-256-2161

Please attach a location map(s). You may use additional sheets to further describe your project

Location Description

Configuration: X Traffic Control Device: Thru Stop
 Configuration (2): Undivided Street Lights: No
 Urban/Rural: Rural Flashers: No
 County: Cavalier Major Entering ADT: 228
 Entering ADT: 265 Minor Entering ADT: 37

- SHSP Emphasis Area (check all that apply)
- Reduce Alcohol Impaired Driving
 - Increase the Use of Safety Restraints for all Occupants
 - Younger Driver/Older Driver Safety
 - Curb Aggressive Driving
 - Improvements to Address Lane Departure Crashes
 - Enhancing Emergency Medical Capabilities to Increase Survivability
 - Improve Intersection Safety

Describe Current Safety Issues & Systemic Ranking Review

North Dakota Crashes, 2008 - 2012 5 years

	Total	Angle	K+A
Crashes	0	0	0
Rate (per MVM)	0.0	0.0	0.0



	Value	Critical	Risk Ranking
Skew	No	Yes	
On/Near Curve	No	Yes	
Development	No	Yes	
Near RR Crossing	Yes	Yes	★
Distance from previous STOP	Yes	Yes	★
Volume Cross Product	No	≥ 100,000	
Total Crashes	0	>0	★★

Describe Proposed Safety Improvements

Description	Unit Cost	Units	Cost	Notes - Segment and curve projects suggested on other sheets.
Roundabout	\$1,000,000 per intersection	0	\$0.00	
Directional Median	\$750,000 per intersection	0	\$0.00	
Mainline Dynamic Warning Sign	\$50,000 per intersection	0	\$0.00	
Close Median	\$25,000 per intersection	0	\$0.00	
Installing Street Lights	\$6,000 per street light	0	\$0.00	
Upgrade Stop Sign	\$350 per sign	2	\$700.00	
Upgrade Junction Sign	\$350 per sign	2	\$700.00	
Upgrade Stop Ahead Sign	\$450 per sign	2	\$900.00	
Upgrade Stop Ahead Marking	\$450 per marking	1	\$450.00	
Upgrade Stop Bar	\$250 per marking	2	\$500.00	
Review Signs and CST	\$2,450 per intersection	0	\$0.00	
			\$3,250.00	

Signs and Markings and Street Light project costs vary by the number of minor legs associated with the intersection.

Project Cost Estimate (attach detailed copy)

Proposed Year of Construction

Federal Funds	\$2,925
Local Match (10% of Total project cost)	\$325
Total Project Cost	\$3,250

NDDOT Central Office Only

Project Accepted? Yes No Reference Number ID Number

Notes

HIGHWAY SAFETY IMPROVEMENT PROGRAM (HSIP) PROJECT APPLICATION

North Dakota Department of Transportation Programming
SFN 59959 (06-2011)

Cavalier 17 and ND 5

Agency Name: Cavalier County

Contact Name: Terry Johnston

Email Address: tjohnsto@nd.gov

ND DOT District: 3

Telephone Number: 701-256-2161

Please attach a location map(s). You may use additional sheets to further describe your project

Location Description

Configuration: X Traffic Control Device: Thru Stop
 Configuration (2): Undivided Street Lights: No
 Urban/Rural: Rural Flashers: No
 County: Cavalier Major Entering ADT: 775
 Entering ADT: 915 Minor Entering ADT: 140

- SHSP Emphasis Area (check all that apply)
- Reduce Alcohol Impaired Driving
 - Increase the Use of Safety Restraints for all Occupants
 - Younger Driver/Older Driver Safety
 - Curb Aggressive Driving
 - Improvements to Address Lane Departure Crashes
 - Enhancing Emergency Medical Capabilities to Increase Survivability
 - Improve Intersection Safety

Describe Current Safety Issues & Systemic Ranking Review

North Dakota Crashes, 2008 - 2012 5 years

	Total	Angle	K+A
Crashes	0	0	0
Rate (per MVM)	0.0	0.0	0.0



	Value	Critical	Risk Ranking
Skew	No	Yes	
On/Near Curve	No	Yes	
Development	No	Yes	
Near RR Crossing	No	Yes	
Distance from previous STOP	Yes	Yes	★
Volume Cross Product	Yes	≥ 100,000	★
Total Crashes	0	>0	★★

Describe Proposed Safety Improvements

Description	Unit Cost	Units	Cost	Notes - Segment and curve projects suggested on other sheets
Roundabout	\$1,000,000 per intersection	0	\$0.00	
Directional Median	\$750,000 per intersection	0	\$0.00	
Mainline Dynamic Warning Sign	\$50,000 per intersection	0	\$0.00	
Close Median	\$25,000 per intersection	0	\$0.00	
Installing Street Lights	\$6,000 per street light	0	\$0.00	
Upgrade Stop Sign	\$350 per sign	2	\$700.00	
Upgrade Junction Sign	\$350 per sign	2	\$700.00	
Upgrade Stop Ahead Sign	\$450 per sign	2	\$900.00	
Upgrade Stop Ahead Marking	\$450 per marking	2	\$900.00	
Upgrade Stop Bar	\$250 per marking	2	\$500.00	
Review Signs and CST	\$2,450 per intersection	0	\$0.00	
			\$3,700.00	

Signs and Markings and Street Light project costs vary by the number of minor legs associated with the intersection.

Project Cost Estimate (attach detailed copy)

Proposed Year of Construction

Federal Funds	\$3,330
Local Match (10% of Total project cost)	\$370
Total Project Cost	\$3,700

NDDOT Central Office Only

Project Accepted? Yes No Reference Number ID Number

Notes

HIGHWAY SAFETY IMPROVEMENT PROGRAM (HSIP) PROJECT APPLICATION

North Dakota Department of Transportation Programming
SFN 59959 (06-2011)

Cavalier 39 and ND 5

Agency Name: Cavalier County

Contact Name: Terry Johnston

Email Address: tjohnsto@nd.gov

ND DOT District: 3

Telephone Number: 701-256-2161

Please attach a location map(s). You may use additional sheets to further describe your project

Location Description

Configuration: X Traffic Control Device: Thru Stop
 Configuration (2): Undivided Street Lights: No
 Urban/Rural: Rural Flashers: No
 County: Cavalier Major Entering ADT: 863
 Entering ADT: 1030 Minor Entering ADT: 168

- SHSP Emphasis Area (check all that apply)
- Reduce Alcohol Impaired Driving
 - Increase the Use of Safety Restraints for all Occupants
 - Younger Driver/Older Driver Safety
 - Curb Aggressive Driving
 - Improvements to Address Lane Departure Crashes
 - Enhancing Emergency Medical Capabilities to Increase Survivability
 - Improve Intersection Safety

Describe Current Safety Issues & Systemic Ranking Review

North Dakota Crashes, 2008 - 2012 5 years

	Total	Angle	K+A
Crashes	0	0	0
Rate (per MVM)	0.0	0.0	0.0

	Value	Critical	Risk Ranking
Skew	No	Yes	
On/Near Curve	No	Yes	
Development	No	Yes	
Near RR Crossing	No	Yes	
Distance from previous STOP	Yes	Yes	★
Volume Cross Product	Yes	≥ 100,000	★
Total Crashes	0	>0	★★



Describe Proposed Safety Improvements

Description	Unit Cost	Units	Cost	Notes - Segment and curve projects suggested on other sheets
Roundabout	\$1,000,000 per intersection	0	\$0.00	
Directional Median	\$750,000 per intersection	0	\$0.00	
Mainline Dynamic Warning Sign	\$50,000 per intersection	0	\$0.00	
Close Median	\$25,000 per intersection	0	\$0.00	
Installing Street Lights	\$6,000 per street light	1	\$6,000.00	
Upgrade Stop Sign	\$350 per sign	2	\$700.00	
Upgrade Junction Sign	\$350 per sign	2	\$700.00	
Upgrade Stop Ahead Sign	\$450 per sign	2	\$900.00	
Upgrade Stop Ahead Marking	\$450 per marking	1	\$450.00	
Upgrade Stop Bar	\$250 per marking	1	\$250.00	
Review Signs and CST	\$2,450 per intersection	0	\$0.00	
			\$9,000.00	

Signs and Markings and Street Light project costs vary by the number of minor legs associated with the intersection.

Project Cost Estimate (attach detailed copy)

Proposed Year of Construction

Federal Funds	\$8,100
Local Match (10% of Total project cost)	\$900
Total Project Cost	\$9,000

NDDOT Central Office Only

Project Accepted? Yes No Reference Number ID Number

Notes

HIGHWAY SAFETY IMPROVEMENT PROGRAM (HSIP) PROJECT APPLICATION

North Dakota Department of Transportation Programming
SFN 59959 (06-2011)

Cavalier 45 and ND 66 (west)

Agency Name: Cavalier County

Contact Name: Terry Johnston

Email Address: tjohnsto@nd.gov

ND DOT District: 3

Telephone Number: 701-256-2161

Please attach a location map(s). You may use additional sheets to further describe your project

Location Description

Configuration: X Traffic Control Device: Thru Stop
 Configuration (2): Undivided Street Lights: No
 Urban/Rural: Rural Flashers: No
 County: Cavalier Major Entering ADT: 29
 Entering ADT: 58 Minor Entering ADT: 29

- SHSP Emphasis Area (check all that apply)
- Reduce Alcohol Impaired Driving
 - Increase the Use of Safety Restraints for all Occupants
 - Younger Driver/Older Driver Safety
 - Curb Aggressive Driving
 - Improvements to Address Lane Departure Crashes
 - Enhancing Emergency Medical Capabilities to Increase Survivability
 - Improve Intersection Safety

Describe Current Safety Issues & Systemic Ranking Review

North Dakota Crashes, 2008 - 2012 5 years

	Total	Angle	K+A
Crashes	0	0	0
Rate (per MVM)	0.0	0.0	0.0



	Value	Critical	Risk Ranking
Skew	Yes	Yes	★
On/Near Curve	No	Yes	
Development	No	Yes	
Near RR Crossing	No	Yes	
Distance from previous STOP	Yes	Yes	★
Volume Cross Product	No	≥ 100,000	
Total Crashes	0	>0	★★

Describe Proposed Safety Improvements

Description	Unit Cost	Units	Cost	Notes -
Roundabout	\$1,000,000 per intersection	0	\$0.00	
Directional Median	\$750,000 per intersection	0	\$0.00	
Mainline Dynamic Warning Sign	\$50,000 per intersection	0	\$0.00	
Close Median	\$25,000 per intersection	0	\$0.00	
Installing Street Lights	\$6,000 per street light	0	\$0.00	
Upgrade Stop Sign	\$350 per sign	2	\$700.00	
Upgrade Junction Sign	\$350 per sign	2	\$700.00	
Upgrade Stop Ahead Sign	\$450 per sign	2	\$900.00	
Upgrade Stop Ahead Marking	\$450 per marking	0	\$0.00	
Upgrade Stop Bar	\$250 per marking	1	\$250.00	
Review Signs and CST	\$2,450 per intersection	0	\$0.00	
			\$2,550.00	

Signs and Markings and Street Light project costs vary by the number of minor legs associated with the intersection.

Project Cost Estimate (attach detailed copy)

Proposed Year of Construction

Federal Funds	\$2,295
Local Match (10% of Total project cost)	\$255
Total Project Cost	\$2,550

NDDOT Central Office Only

Project Accepted? Yes No Reference Number ID Number

Notes