

## Ward County

The total project cost suggested for Ward County is \$2,598,146. 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 and Tables 4-3 through 4-5. These locations are described in further detail in Appendix A along with priority rankings and suggested project sheets.

**TABLE 4-2**  
Ward County Project Costs

Project Type	Cost
Intersections	\$ 2,122,800
Roadway Segments	\$ 366,070
Curves	\$ 109,276
<b>Total</b>	<b>\$ 2,598,146</b>

**TABLE 4-3**  
Ward County – Rural Intersection Projects

Inter ID	Description	Risk Ranking	Directional Median	Mainline Dynamic Warning Sign	Install Street Lights	Signs & Markings	Review Signs & Clearing/Grubbing	Project Cost (\$)
1.01	436th Ave NW (Ward 2) & 6th St NW/415th Ave NW (Ward 1)	★★★★	-	-	x	x	x	\$9,950
2.01	590th St NW (Ward 2) & 436th Ave NW (Ward 2)	★★★	-	-	-	x	x	\$5,700
2.02	US Highway 52 & 422nd Ave NW/6th St NE (Ward 2)	★★★★	-	x	Installed	x	x	\$54,300
5.02	US Highway 52 & 394th St NW (Ward 5)	★★★	-	-	x	x	x	\$10,300
5.03	US Highway 52/2nd Ave & Power St/Main St (Ward 5)	★★★★★	-	-	Installed	x	x	\$4,300
6.02	ND State Highway 28 & 198th Ave NW/Washington Ave W (Ward 6)	★★★	-	-	Installed	x	x	\$3,150
8.01	US Highway 52 & 198th St NW (Ward 8)	★★★★★	-	-	Installed	x	x	\$5,700
8.03	US Highway 83 & 128th Ave NW/NE (Ward 8)	★★★★	x	-	x	x	x	\$760,750
9.02	338th St SW (Ward 9) & ND Highway 23/247th Ave SW	★★★★	-	x	x	x	x	\$61,450
10.01	US Highway 2 & 72nd St NW (Ward 10)	★★★	-	x	Installed	x	x	\$53,500
10.02	Co Rd 15 W (Ward 15) & 46th Ave NW (Ward 10)	★★★	-	-	Installed	x	x	\$3,500
10.03	US Highway 83 & 46th Ave NW (Ward 10)	★★★★	-	x	x	x	x	\$60,300
11.01	US Highway 52 & 184th St NW (Ward 11)	★★★★	-	x	x	x	x	\$59,600
14.04	US Highway 83/S Broadway St & 54th Ave SW/SE (Ward 14)	★★★	-	x	x	x	x	\$62,150

**TABLE 4-3**  
Ward County – Rural Intersection Projects

Inter ID	Description	Risk Ranking	Directional Median	Mainline Dynamic Warning Sign	Install Street Lights	Signs & Markings	Review Signs & Clearing/Grubbing	Project Cost (\$)
14.07	US Hwy 52 & 37th Ave SE (Ward 14)	★★★	-	X	X	X	X	\$61,450
16.02	US Hwy 52 & 79th Ave SE (Ward 16)	★★★	-	-	X	X	X	\$12,150
17.01	US Hwy 2 & 54th St/62nd St NW (Ward 17)	★★★	X	-	Installed	X	X	\$753,850
23.01	139th St SE (Ward 23) & ND Hwy 23	★★★	-	-	X	X	X	\$9,850
24.02	142nd St SW (Ward 501) & 359th Ave SW/ND Hwy 53 (Ward 24)	★★★	-	-	-	X	X	\$5,700
501.01	142nd St SW (Ward 501) & 247th Ave SW/ND Hwy 23	★★★	-	-	-	X	X	\$6,150
504.01	US Hwy 52 & Co Rd 19 S (Ward 504)	★★★	-	X	X	X	X	\$59,500
504.02	US Hwy 52 & Co Rd 19 S (Ward 504)	★★★	-	X	X	X	X	\$59,500
		<b>TOTALS</b>	<b>2</b>	<b>9</b>	<b>12</b>	<b>22</b>	<b>22</b>	<b>\$2,122,800</b>

**TABLE 4-4**  
Ward County – Rural Segment Projects

Corridor ID	Local Street Name	Start	End	Shoulder Rumble Strip	Edge Line Rumble Strip	6" Edge Lines	Center Line Rumble	Project Cost (\$)
1.01	534th St	State Route 50	436th Ave	0.0	8.8	0.0	0.0	\$30,800
2.02	436th Ave	590th ST	Ward 11	5.8	0.0	0.0	0.0	\$17,400
5.03	Main St	US Hwy 52	Ward 7	0.0	0.0	1.8	0.0	\$1,170
8.01	128th Ave	US Hwy 52	US Hwy 83	12.9	0.0	0.0	0.0	\$38,700
9.03	310th St	Ward 20	Ward 14	15.5	0.0	0.0	0.0	\$46,500
10.02	19th Ave	Granly St	US Hwy 2	7.6	0.0	0.0	0.0	\$22,800
12.03	4th Ave	55th St	US Hwy 2	4.1	0.0	0.0	4.1	\$24,600
14.02	54th Ave	Ward 9	62nd St	0.0	17.8	0.0	0.0	\$62,300
14.04	54th Ave	US Hwy 83	1 mile east of 13th St	0.0	2.1	0.0	0.0	\$7,350
15.02	57th St	US Hwy 83	Ward 17	0.0	2.2	0.0	2.2	\$14,300
15.03	County Road 15 W	Ward 17	Ward 10	0.0	2.8	0.0	2.8	\$18,200
15.04	County Road 15 W	Ward 10	1 mile South of 86th St	0.0	2.2	0.0	0.0	\$7,700
17.02	54th St	US Hwy 2	Ward 15	0.0	1.3	0.0	1.3	\$8,450
23.04	153rd St	US Hwy 2	66th St	0.0	9.1	0.0	0.0	\$31,850
24.02	359th Ave	142nd St	US Hwy 83	0.0	9.7	0.0	0.0	\$33,950
<b>TOTALS</b>				<b>45.9</b>	<b>56.0</b>	<b>1.8</b>	<b>10.4</b>	<b>\$ 366,070</b>

**TABLE 4-5**  
 Ward County – Rural Curve Projects

Corrid or ID	Local Street Name	Start	End	No. of Curves	Project Cost (\$)
1.01	534th St	State Route 50	436th Ave	4	\$ 5,265
2.02	436th Ave	590th ST	Ward 11	2	\$ 4,209
5.03	Main St	US Hwy 52	Ward 7	6	\$ 25,727
6.03	198th Ave	State Route 28	Reneville 6	1	\$ 3,755
8.01	128th Ave	US Hwy 52	US Hwy 83	1	\$ 6,373
9.03	310th St	Ward 20	Ward 14	4	\$ 1,818
10.01	184th St	Ward 9	Granly St	4	\$ 1,364
10.02	19th Ave	Granly St	US Hwy 2	4	\$ 17,745
10.03	60 th St	Ward 15	US Hwy 83	3	\$ 1,364
12.03	4th Ave	55th St	US Hwy 2	2	\$ 9,109
14.04	54th Ave	US Hwy 83	1 mile east of 13th St	5	\$ 8,873
14.06	37th St	Ward 14A	72nd Ave	1	\$ 4,555
15.04	County Road 15 W	Ward 10	1 mile South of 86th St	4	\$ 5,118
17.01	62nd St	Ward 14	US Hwy 2	3	\$ 5,464
17.02	54th St	US Hwy 2	Ward 15	6	\$ 2,727
23.02	21st Ave	State Route 23	US Hwy 53	1	\$ 4,555
501.03	142nd St	State Route 22	Ward 22	1	\$ 1,255
			<b>TOTALS</b>	<b>52</b>	<b>\$ 109,276</b>



23 USC 409  
NDDOT Reserves All Objections

Ward County Rural Intersection Projects

Intersection ID	Risk Ranking	Risk Ranking	Directional Median	Close Median	Mainline Dynamic Warning Sign	Install Street Lights	Signs & Markings	Review Signs & Clearing/G rubbing	Project Cost (\$)
1.01	436th Ave NW (Ward 2) & 6th St NW/415th Ave NW (Ward 1)	★★★★	-		-	X	X	X	\$9,950
2.01	590th St NW (Ward 2) & 436th Ave NW (Ward 2)	★★★	-		-	-	X	X	\$5,700
2.02	US Highway 52 & 422nd Ave NW/6th St NE (Ward 2)	★★★★	-		X	X	X	X	\$54,300
5.02	US Highway 52 & 394th St NW (Ward 5)	★★★	-		-	X	X	X	\$10,300
5.03	US Highway 52/2nd Ave & Power St/Main St (Ward 5)	★★★★★	-		-	-	X	X	\$4,300
6.02	ND State Highway 28 & 198th Ave NW/Washington Ave W (Ward 6)	★★★	-		-	-	X	X	\$3,150
8.01	US Highway 52 & 198th St NW (Ward 8)	★★★★★	-		-	-	X	X	\$5,700
8.03	US Highway 83 & 128th Ave NW/NE (Ward 8)	★★★★★	X		-	X	X	X	\$760,750
9.02	338th St SW (Ward 9) & ND Highway 23/247th Ave SW	★★★★	-		X	X	X	X	\$61,450
10.01	US Highway 2 & 72nd St NW (Ward 10)	★★★	-		X	X	X	X	\$53,500
10.02	Co Rd 15 W (ward 15) & 46th Ave NW (Ward 10)	★★★	-		-	-	X	X	\$3,500
10.03	US Highway 83 & 46th Ave NW (Ward 10)	★★★★	-		X	X	X	X	\$60,300
11.01	US Highway 52 & 184th St NW (Ward 11)	★★★★	-		X	X	X	X	\$59,600
14.04	US Highway 83/S Broadway St & 54th Ave SW/SE (Ward 14)	★★★	-		X	X	X	X	\$62,150
14.07	US Hwy 52 & 37th Ave SE (Ward 14)	★★★	-		X	X	X	X	\$61,450
16.02	US Hwy 52 & 79th Ave SE (Ward 16)	★★★	-		-	X	X	X	\$12,150
17.01	US Hwy 2 & 54th St/62nd St NW (Ward 17)	★★★	X		-	X	X	X	\$753,850
23.01	139th St SE (Ward 23) & ND Hwy 23	★★★	-		-	X	X	X	\$9,850
24.02	142nd St SW (Ward 501) & 359th Ave SW/ND Hwy 53 (Ward 24)	★★★	-		-	-	X	X	\$5,700
501.01	142nd St SW (Ward 501) & 247th Ave SW/ND Hwy 23	★★★	-		-	-	X	X	\$6,150
504.01	US Hwy 52 & Co Rd 19 S (Ward 504)	★★★	-		X	X	X	X	\$59,500
504.02	US Hwy 52 & Co Rd 19 S (Ward 504)	★★★	-		X	X	X	X	\$59,500
			2	0	9	15	22	22	\$2,122,800

Detailed Intersection Information

Ward County Intersection List

Int #	Sys	Num	Intersection Description	Config	Div/Undiv	Analysts										Notes	ADT	Traffic Control Device	Street Lights	Flashers	Previous STOP (>5mi)					
						Config(2)	Major 1	Major 2	Minor 1	Minor 2	Minor 3	Source	Skew	On/Near Curve	Development							RR Xing	Major Surface	Minor Surface	Minor Leg Approach	
																							Type	Type	Apron Type	
1.01	Ward	1	436th Ave NW (Ward 2) & 6th St NW/415th Ave NW (Ward 1)	T	Undivided	440	805	360				Count	Yes	Yes	No	Yes	Paved	Paved	Paved		803	thru-STOP	No	No	No	
2.01	Ward	2	590th St NW (Ward 2) & 436th Ave NW (Ward 2)	X	Undivided	170	300	120	160			Count	Yes	Yes	No	No	Paved	Paved/Gravel	Paved/Gravel		375	thru-STOP	No	No	Yes	
2.02	Ward	2	US Highway 52 & 422nd Ave NW/6th St NE (Ward 2)	T	Undivided	975	3,375	1,655	685			Count	Yes	No	Yes	No	Paved	Paved	Paved		3,345	thru-STOP	Yes	No	Yes	
2.03	Ward	2	436th St NW (Ward 3) & 422nd Ave NW (Ward 2)	X	Undivided	300	260	70	25			Count	No	No	No	No	Paved	Gravel	Gravel		328	Yield	No	No	Yes	
3.01	Ward	3	436th St NW (Ward 3) & 366th Ave NW (Ward 4)	X	Undivided	50	55	25	29			Count	No	No	No	No	Gravel	Gravel	Gravel		80	Unknown	Unknown	Unknown		
4.01	Ward	4	US Highway 52 & 366th Ave NW (Ward 4)	T	Undivided	2,340	1,425	50				Count	Yes	Yes	No	No	Paved	Gravel	Gravel		1,908	thru-STOP	No	No	No	
5.01	Ward	5	394th St NW (Ward 5) & 184th Ave NW (Ward 6)	X	Undivided	55	29	50	29			Count	No	No	No	No	Gravel	Gravel	Gravel		82	Unknown	Unknown	Unknown		
5.02	Ward	5	US Highway 52 & 394th St NW (Ward 5)	T	Undivided	1,450	2,545	180				Count	No	Yes	No	No	Paved	Paved	Paved		2,088	thru-STOP	No	No	Yes	
5.03	Ward	5	US Highway 52/2nd Ave & Power St/Main St (Ward 5)	T	Undivided	2,545	1,125	300				Count	Yes	Yes	Yes	No	Paved	Paved	Paved		1,985	thru-STOP	Yes	No	Yes	
5.04	Ward	5	55 1/2th St NW (Ward 5) & 282nd Ave NW (Ward 7)	T	Undivided	170	70	230				Count	No	No	No	No	Gravel	Paved	Paved		235	Yield	No	No		
6.01	Ward	6	ND State Highway 28 & 184th Ave NW/Garfield Ave W (Ward 6)	X	Undivided	610	850	60	200			Count	Yes	Yes	No	No	Paved	Paved	Paved		860	thru-STOP	Yes	No	No	
6.02	Ward	6	ND State Highway 28 & 198th Ave NW/Washington Ave W (Ward 6)	T	Undivided	745	610	180				Count	Yes	Yes	No	Yes	Paved	Paved	Paved		768	thru-STOP	Yes	No	No	
6.03	Ward	6	184th St NW (Ward 6) & 198th Ave NW (Ward 6)	T	Undivided	250	60	200				Count	No	Yes	No	No	Paved	Paved	Paved		255	Yield	No	No	Yes	
8.01	Ward	8	US Highway 52 & 198th St NW (Ward 8)	X	Undivided	1,900	2,000	50	180			Count	No	Yes	Yes	Yes	Paved	Paved/Gravel	Paved/Gravel		2,065	thru-STOP	Yes	No	Yes	
8.02	Ward	8	Co Rd 15 W (Ward 15) & 128th Ave NW (Ward 8)	T	Undivided	85	75	70				Count	Yes	No	No	No	Paved	Gravel	Gravel		115	Yield	No	No	Yes	
8.03	Ward	8	US Highway 83 & 128th Ave NW/NE (Ward 8)	X	Div/Undiv	5,695	5,500	305	965			Count	No	Yes	Yes	No	Paved	Paved	Paved		6,233	thru-STOP	No	Overhead	Yes	
8.04	Ward	8	27th St NE (Ward 19) & 128th Ave NE (Ward 8)	T	Undivided	965	625	450				Count	No	No	No	No	Paved	Paved	Paved		1,020	thru-STOP	No	No	No	
8.05	Ward	8	153rd St NE (Ward 23) & 128th Ave NE (Ward 8)	X	Undivided	320	110	240	29			Count	No	Yes	No	No	Paved	Paved/Gravel	Paved/Gravel		350	Yield	No	No	Yes	
9.01	Ward	9	338th St SW (Ward 9) & 303rd Ave SW (Ward 22)	X	Undivided	300	190	120	29			Count	No	No	No	No	Paved	Paved/Gravel	Paved/Gravel		320	thru-STOP/Yield	No	No	No	
9.02	Ward	9	338th St SW (Ward 9) & ND Highway 23/247th Ave SW	X	Undivided	3,330	2,720	675	490			Count	No	No	Yes	No	Paved	Paved	Paved		3,608	thru-STOP	No	No	Yes	
9.03	Ward	9	338th St SW (Ward 9) & 205th Ave SW (Ward 20)	TT	Undivided	675	80	80				Count	No	No	No	No	Paved	Paved/Gravel	Paved	Gravel approach w 50' paved	418	Yield	No	No	Yes	
9.04	Ward	9	325th St SW (Ward 9) & 177th Ave SW (Ward 20)	T	Undivided	60	130	40				Count	No	No	No	No	Paved	Paved	Paved	Gravel 500' away from approach	115	Yield	No	No	Yes	
9.05	Ward	9	310th St SW (Ward 9) & 54th Ave SW (Ward 14)	X	Undivided	65	110	70	0			Count	No	No	No	No	Paved	Paved	Paved	All approaches are paved, disagrees with Ward_Seg	123	thru-STOP	No	No	Yes	
9.06	Ward	9	310th St NW (Ward 9) & 72nd Ave NW (Ward 10)	X	Undivided	315	30	55	230			Count	No	No	No	No	Paved	Paved/Gravel	No	Paved	200' of paved approach for gravel approach	315	thru-STOP	No	No	No
9.07	Ward	9	US Highway 2/86th Ave NW & 310th St NW (Ward 9)	X	Div/Undiv	2,870	4,140	240	190			Count	No	No	No	No	Paved	Paved/Gravel	Paved	50' of paved approach for gravel approach	3,720	thru-STOP	No	No	No	
10.01	Ward	10	US Highway 2 & 72nd St NW (Ward 10)	T	Div/Undiv	5,865	7,065	915	230			Count	No	Yes	No	Yes	Paved	Paved/Gravel	Paved	20' of paved approach for gravel approach	7,038	thru-STOP	Yes	No	No	
10.02	Ward	10	Co Rd 15 W (ward 15) & 46th Ave NW (Ward 10)	T	Undivided	650	400	520				Count	Yes	Yes	No	No	Paved	Paved	Paved		785	thru-STOP	Yes	No	No	
10.03	Ward	10	US Highway 83 & 46th Ave NW (Ward 10)	T	Undivided	6,380	6,630	615				Count	Yes	Yes	No	No	Paved	Paved	Paved		6,813	thru-STOP	No	No	No	
10.04	Ward	10	US Highway 83/N Broadway & 46th Ave NE (Ward 10)	X	Div/Undiv	5,895	4,995	6,630	1,775			Count	No	No	No	No	Paved	Paved	Paved		9,648	Signal	Yes	No	No	
10.05	Ward	10	27th St NE (Ward 19) & 46th Ave NE (Ward 10)	X	Undivided	1,095	2,800	1,810	160			Count	No	No	Yes	Yes	Paved	Paved/Gravel	No	Paved	20' of paved approach for gravel approach	2,933	thru-STOP	No	No	No
10.06	Ward	10	55th St NE (Ward 10) & 46th Ave NE (Ward 10)	X	Undivided	170	190	29	29			Count	No	No	No	No	Paved	Unknown	Unknown	Marked as gravel, but is paved	209	Unknown	Unknown	Unknown	No	
11.01	Ward	11	US Highway 52 & 184th St NW (Ward 11)	T	Undivided	1,950	1,900	3,330				Count	No	Yes	No	Yes	Paved	Paved	Paved		3,590	thru-STOP	No	No	No	
12.01	Ward	12	62nd St NW (Ward 17) & 22nd St SW (Ward 12)	T	Undivided	260	550	120				Count	Yes	Yes	No	No	Paved	Paved	Paved		465	Yield	No	No	No	
12.02	Ward	12	27th St NE (Ward 19) & 4th Ave NE (Ward 12)	X	Undivided	6,295	2,350	4,465	3,265			Count	No	No	No	No	Paved	Paved	Paved		8,188	All-way STOP	No	No	No	
12.03	Ward	12	55th St NE (Ward 12) & 4th Ave NE (Ward 12)	X	Undivided	3,115	1,500	2,400	115			Count	No	No	No	No	Paved	Paved/Gravel	Paved/Gravel		3,565	thru-STOP	No	No	No	
12.04	Ward	12	Pleasant Ave N/104th St NE (Ward 12) & 2nd St NW (Ward 12)	X	Undivided	1,290	529	900	529			Count	No	No	Yes	Yes	Paved	Paved	Paved		1,624	thru-STOP	Yes	No	No	
12.05	Ward	12	US Highway 2 & 104th St SE (Ward 12)	X	Div/Undiv	2,535	3,680	1,290	290			Count	No	Yes	No	No	Paved	Paved/Gravel	Paved	20' of paved approach for gravel approach	3,898	thru-STOP	Yes	No	No	
12.06	Ward	12	55th St SE (Ward 12) & 37th Ave SE (Ward 14)	X	Undivided	350	529	395	29			Count	No	No	No	No	Paved	Paved/Gravel	Paved	20' of paved approach for gravel approach	652	thru-STOP/Yield	No	No	No	
12.07	Ward	12	55th St SE (Ward 12) & US Highway 2	X	Div/Undiv	5,310	4,240	1,610	210			Count	No	No	No	No	Paved	Paved	Paved		5,685	thru-STOP	No	No	No	
14.01	Ward	14	62nd St SW (Ward 14) & 54th Ave SW (Ward 14)	T	Undivided	380	775	29				Count	No	Yes	No	No	Paved	Paved	Paved		592	Yield	No	No	No	
14.02	Ward	14	62nd St SW (Ward 17) & 37th Ave SW (Ward 14)	X	Undivided	240	775	850	29			Count	No	No	No	No	Paved	Paved/Gravel	Paved/Gravel		947	Yield	No	No	No	
14.03	Ward	14	16th St SW (Ward 14) & 37th Ave SW (Ward 14)	X	Undivided	2,370	7,385	8,825	570			Count	No	No	Yes	No	Paved	Paved	Paved		9,575	Signal	Yes	No	No	
14.04	Ward	14	US Highway 83/S Broadway St & 54th Ave SW/SE (Ward 14)	X	Div/Undiv	4,575	5,030	270	795			Count	No	No	Yes	No	Paved	Paved	Paved		5,335	thru-STOP	No	No	No	
14.05	Ward	14	38th St SE (Ward 14) & 37th Ave SE (Ward 14)	T	Undivided	300	550	29				Count	No	No	No	No	Paved	Paved	Paved		440	thru-STOP	Yes	No	No	
14.06	Ward	14	Co Hwy 19 S (Ward 504) & 72nd St SE (Ward 14)	T	Undivided	1,050	675	180				Count	No	Yes	No	No	Paved	Paved	Paved		953	thru-STOP	No	No	No	
14.07	Ward	14	US Hwy 52 & 37th Ave SE (Ward 14)	X	Div/Undiv	4,180	2,650	180	500			Count	Yes	No	No	No	Paved	Paved	Paved		3,755	thru-STOP	No	No	No	
14.08	Ward	14	72nd St SE (Ward 14) & 37th Ave SE (Ward 14)	X	Undivided	350	170	29	29			Count	No	No	No	No	Paved	Gravel	Paved	20' of paved approach for gravel approaches	289	Unknown	Unknown	Unknown	No	
14.09	Ward	14	72nd St SE (Ward 14) & 11th Ave SE	X	Undivided	1005	170	29	29			Count	No	No	No	No	Paved	Paved	Paved		617	Unknown	Unknown	Unknown	No	
15.02	Ward	15	Co Rd 15 W/4th Ave NW (Ward 15) & 54th St NW (Ward 17)	T	Undivided	240	250	170				Count	No	Yes	No	No	Paved	Paved	Paved		330	thru-STOP	Yes	No	No	
16.01	Ward	16	US Hwy 83 & 93rd Ave SW (Ward 16)	X	Div/Undiv	2,550	2,550	95	110			Count	No	No	No	No	Paved	Gravel	Paved		2,653	thru-STOP	No	No	Yes	
16.02	Ward	16	US Hwy 52 & 79th Ave SE (Ward 16)	X	Undivided	5,295	4,000	30	140			Count	No	Yes	No	No	Paved	Paved/Gravel	Paved	20' of paved approach for gravel approach	4,733	thru-STOP	No	No	Yes	
16.03	Ward	16	Co Rd 19 S (Ward 504) & 79th Ave SE (Ward 16)	X	Undivided	250	170	140	280			Count	Yes	No	No	No	Paved	Paved	Paved		420	thru-STOP	No	No	No	
17.01	Ward	17	US Hwy 2 & 54th St/62nd St NW (Ward 17)	X	Div/Undiv	6,195	6,905	825	1,620			Count	No	Yes	No	No	Paved	Paved	Paved		7,773					





**Ward County  
Rural Intersection Listing**

Int #	Sys	Num	Intersection Description	Skew	On/Near Curve	Development	RR Xing	ADT	Previous STOP (>5mi)	Total Crashes	ADT Cross Product >100,000	Crash Cost
1.01	Ward	1	436th Ave NW (Ward 2) & 6th St NW/415th Ave NW (Ward 1)	Yes	Yes	No	Yes	803	No	0	Yes	\$ -
2.01	Ward	2	590th St NW (Ward 2) & 436th Ave NW (Ward 2)	Yes	Yes	No	No	375	Yes	0	No	\$ -
2.02	Ward	2	US Highway 52 & 422nd Ave NW/6th St NE (Ward 2)	Yes	No	Yes	No	3345	Yes	0	Yes	\$ -
2.03	Ward	2	436th St NW (Ward 3) & 422nd Ave NW (Ward 2)	No	No	No	No	328	Yes	0	No	\$ -
4.01	Ward	4	US Highway 52 & 366th Ave NW (Ward 4)	Yes	Yes	No	No	1908	No	0	No	\$ -
5.02	Ward	5	US Highway 52 & 394th St NW (Ward 5)	No	Yes	No	No	2088	Yes	0	Yes	\$ -
5.03	Ward	5	US Highway 52/2nd Ave & Power St/Main St (Ward 5)	Yes	Yes	Yes	No	1985	Yes	0	Yes	\$ -
6.01	Ward	6	ND State Highway 28 & 184th Ave NW/Garfield Ave W (Ward 6)	Yes	Yes	No	No	860	No	0	No	\$ -
6.02	Ward	6	ND State Highway 28 & 198th Ave NW/Washington Ave W (Ward 6)	Yes	Yes	No	Yes	768	No	0	No	\$ -
6.03	Ward	6	184th St NW (Ward 6) & 198th Ave NW (Ward 6)	No	Yes	No	No	255	Yes	0	No	\$ -
8.01	Ward	8	US Highway 52 & 198th St NW (Ward 8)	No	Yes	Yes	Yes	2065	Yes	0	Yes	\$ -
8.02	Ward	8	Co Rd 15 W (Ward 15) & 128th Ave NW (Ward 8)	Yes	No	No	No	115	Yes	0	No	\$ -
8.03	Ward	8	US Highway 83 & 128th Ave NW/NE (Ward 8)	No	Yes	Yes	No	6233	Yes	0	Yes	\$ -
8.04	Ward	8	27th St NE (Ward 19) & 128th Ave NE (Ward 8)	No	No	No	No	1020	No	0	Yes	\$ -
8.05	Ward	8	153rd St NE (Ward 23) & 128th Ave NE (Ward 8)	No	Yes	No	No	350	Yes	0	No	\$ -
9.01	Ward	9	338th St SW (Ward 9) & 303rd Ave SW (Ward 22)	No	No	No	No	320	No	0	No	\$ -
9.02	Ward	9	338th St SW (Ward 9) & ND Highway 23/247th Ave SW	No	No	Yes	No	3608	Yes	1	Yes	\$ 12,000
9.03	Ward	9	338th St SW (Ward 9) & 205th Ave SW (Ward 20)	No	No	No	No	418	Yes	0	No	\$ -
9.04	Ward	9	325th St SW (Ward 9) & 177th Ave SW (Ward 20)	No	No	No	No	115	Yes	0	No	\$ -
9.05	Ward	9	310th St SW (Ward 9) & 54th Ave SW (Ward 14)	No	No	No	No	123	Yes	0	No	\$ -
9.06	Ward	9	310th St NW (Ward 9) & 72nd Ave NW (Ward 10)	No	No	No	No	315	No	0	No	\$ -
9.07	Ward	9	US Highway 2/86th Ave NW & 310th St NW (Ward 9)	No	No	No	No	3720	No	0	Yes	\$ -
10.01	Ward	10	US Highway 2 & 72nd St NW (Ward 10)	No	Yes	No	Yes	7038	No	0	Yes	\$ -
10.02	Ward	10	Co Rd 15 W (ward 15) & 46th Ave NW (Ward 10)	Yes	Yes	No	No	785	No	0	Yes	\$ -
10.03	Ward	10	US Highway 83 & 46th Ave NW (Ward 10)	Yes	Yes	No	No	6813	No	2	Yes	\$ 148,000
10.04	Ward	10	US Highway 83/N Broadway & 46th Ave NE (Ward 10)	No	No	No	No	9648	No	11	Yes	\$ 690,000
10.05	Ward	10	27th St NE (Ward 19) & 46th Ave NE (Ward 10)	No	No	No	Yes	2933	No	0	Yes	\$ -
10.06	Ward	10	55th St NE (Ward 10) & 46th Ave NE (Ward 10)	No	No	No	No	209	No	0	No	\$ -
11.01	Ward	11	US Highway 52 & 184th St NW (Ward 11)	No	Yes	No	Yes	3590	No	1	Yes	\$ 12,000
12.01	Ward	12	62nd St NW (Ward 17) & 22nd St SW (Ward 12)	Yes	Yes	No	No	465	No	0	No	\$ -
12.02	Ward	12	27th St NE (Ward 19) & 4th Ave NE (Ward 12)	No	No	No	No	8188	No	0	Yes	\$ -
12.03	Ward	12	55th St NE (Ward 12) & 4th Ave NE (Ward 12)	No	No	No	No	3565	No	0	Yes	\$ -
12.04	Ward	12	Pleasant Ave N/104th St NE (Ward 12) & 2nd St NW (Ward 12)	No	No	Yes	Yes	1624	No	0	Yes	\$ -
12.05	Ward	12	US Highway 2 & 104th St SE (Ward 12)	No	Yes	No	No	3898	No	0	Yes	\$ -
12.06	Ward	12	55th St SE (Ward 12) & 37th Ave SE (Ward 14)	No	No	No	No	652	No	0	No	\$ -
12.07	Ward	12	55th St SE (Ward 12) & US Highway 2	No	No	No	No	5685	No	0	Yes	\$ -
14.01	Ward	14	62nd St SW (Ward 14) & 54th Ave SW (Ward 14)	No	Yes	No	No	592	No	0	No	\$ -
14.02	Ward	14	62nd St SW (Ward 17) & 37th Ave SW (Ward 14)	No	No	No	No	947	No	0	Yes	\$ -
14.03	Ward	14	16th St SW (Ward 14) & 37th Ave SW (Ward 14)	No	No	Yes	No	9575	No	0	Yes	\$ -
14.04	Ward	14	US Highway 83/S Broadway St & 54th Ave SW/SE (Ward 14)	No	No	Yes	No	5335	No	1	Yes	\$ 12,000
14.05	Ward	14	38th St SE (Ward 14) & 37th Ave SE (Ward 14)	No	No	No	No	440	No	2	No	\$ 24,000
14.06	Ward	14	Co Hwy 19 S (Ward 504) & 72nd St SE (Ward 14)	No	Yes	No	No	953	No	0	No	\$ -
14.07	Ward	14	US Hwy 52 & 37th Ave SE (Ward 14)	Yes	No	No	No	3755	No	2	Yes	\$ 24,000
14.08	Ward	14	72nd St SE (Ward 14) & 37th Ave SE (Ward 14)	No	No	No	No	289	No	0	No	\$ -
14.09	Ward	14	72nd St SE (Ward 14) & 11th Ave SE	No	No	No	No	617	No	0	No	\$ -
15.02	Ward	15	Co Rd 15 W/4th Ave NW (Ward 15) & 54th St NW (Ward 17)	No	Yes	No	No	330	No	0	No	\$ -
16.01	Ward	16	US Hwy 83 & 93rd Ave SW (Ward 16)	No	No	No	No	2653	Yes	0	Yes	\$ -
16.02	Ward	16	US Hwy 52 & 79th Ave SE (Ward 16)	No	Yes	No	No	4733	Yes	0	Yes	\$ -
16.03	Ward	16	Co Rd 19 S (Ward 504) & 79th Ave SE (Ward 16)	Yes	No	No	No	420	No	0	No	\$ -
17.01	Ward	17	US Hwy 2 & 54th St/62nd St NW (Ward 17)	No	Yes	No	No	7773	Yes	0	Yes	\$ -
20.02	Ward	20	142nd St SW (Ward 501) & 177th Ave SW (Ward 20)	No	Yes	No	No	207	Yes	0	No	\$ -
20.03	Ward	20	US Hwy 83 & 177th Ave SW (Ward 20)	No	No	Yes	No	4253	No	0	Yes	\$ -
22.01	Ward	22	254th St SW/ND Hwy 28 (Ward 500) & 303rd Ave SW (Ward 2)	No	No	No	No	463	No	0	No	\$ -
22.04	Ward	22	US Hwy 83 & 303rd Ave SW (Ward 22)	No	Yes	No	No	2453	Yes	0	No	\$ -
23.01	Ward	23	139th St SE (Ward 23) & ND Hwy 23	Yes	Yes	No	No	570	Yes	0	No	\$ -
23.02	Ward	23	US Hwy 52 & 139th St SE (Ward 23)	No	No	No	No	4310	No	0	Yes	\$ -
23.04	Ward	23	US Hwy 2/Burdick Expy E & 153rd St NE (Ward 23)	No	No	No	No	2460	Yes	0	Yes	\$ -
24.01	Ward	24	254th St SW/ND Hwy 28 & 359th Ave SW/ND Hwy 53 (Ward 2)	No	No	No	No	335	Yes	0	No	\$ -
24.02	Ward	24	142nd St SW (Ward 501) & 359th Ave SW/ND Hwy 53 (Ward 2)	Yes	Yes	No	No	100	Yes	0	No	\$ -
24.03	Ward	24	US Hwy 83 & 359th Ave SW/SE (Ward 24)	No	No	No	No	2010	Yes	0	Yes	\$ -
500.01	Ward	500	254th St SW/ND Hwy 28 (Ward 500) & 247th Ave SW/ND Hwy 23	No	No	No	No	2750	Yes	0	Yes	\$ -
501.01	Ward	501	142nd St SW (Ward 501) & 247th Ave SW/ND Hwy 23	Yes	Yes	No	No	1293	Yes	0	No	\$ -
502.01	Ward	502	US Hwy 83 & 135th Ave SW/SE (Ward 502)	No	No	No	No	3423	Yes	0	Yes	\$ -
502.02	Ward	502	US Hwy 52 & 135th Ave SE (Ward 502)	No	No	No	No	4438	No	2	Yes	\$ 24,000
504.01	Ward	504	US Hwy 52 & Co Rd 19 S (Ward 504)	No	Yes	No	No	4368	No	3	Yes	\$ 160,000
504.02	Ward	504	US Hwy 52 & Co Rd 19 S (Ward 504)	No	Yes	Yes	No	2788	No	0	Yes	\$ -

**Ward County  
Rural Intersection Prioritization**

Rank	Int #	Sys	#	Intersection Description	Skew	On/Near Curve	Development	RR Xing	Previous STOP (>5mi)	Total Crashes	ADT Cross Product >100,000	Priority
1	5.03	Ward	5	US Highway 52/2nd Ave & Power St/Main St (Ward 5)	*	*	*	*	*	*	*	*****
2	8.01	Ward	8	US Highway 52 & 198th St NW (Ward 8)	*	*	*	*	*	*	*	*****
3	10.03	Ward	10	US Highway 83 & 46th Ave NW (Ward 10)	*	*	*	*	*	*	*	*****
4	9.02	Ward	9	338th St SW (Ward 9) & ND Highway 23/247th Ave SW	*	*	*	*	*	*	*	*****
5	11.01	Ward	11	US Highway 52 & 184th St NW (Ward 11)	*	*	*	*	*	*	*	*****
6	1.01	Ward	1	436th Ave NW (Ward 2) & 6th St NW/415th Ave NW (Ward 1)	*	*	*	*	*	*	*	*****
7	2.02	Ward	2	US Highway 52 & 422nd Ave NW/6th St NE (Ward 2)	*	*	*	*	*	*	*	*****
8	8.03	Ward	8	US Highway 83 & 128th Ave NW/NE (Ward 8)	*	*	*	*	*	*	*	*****
9	504.01	Ward	504	US Hwy 52 & Co Rd 19 S (Ward 504)	*	*	*	*	*	*	*	***
10	14.07	Ward	14	US Hwy 52 & 37th Ave SE (Ward 14)	*	*	*	*	*	*	*	***
11	14.04	Ward	14	US Highway 83/S Broadway St & 54th Ave SW/SE (Ward 14)	*	*	*	*	*	*	*	***
12	2.01	Ward	2	590th St NW (Ward 2) & 436th Ave NW (Ward 2)	*	*	*	*	*	*	*	***
13	5.02	Ward	5	US Highway 52 & 394th St NW (Ward 5)	*	*	*	*	*	*	*	***
14	6.02	Ward	6	ND State Highway 28 & 198th Ave NW/Washington Ave W (Ward 6)	*	*	*	*	*	*	*	***
15	10.01	Ward	10	US Highway 2 & 72nd St NW (Ward 10)	*	*	*	*	*	*	*	***
16	10.02	Ward	10	Co Rd 15 W (ward 15) & 46th Ave NW (Ward 10)	*	*	*	*	*	*	*	***
17	12.04	Ward	12	Pleasant Ave N/104th St NE (Ward 12) & 2nd St NW (Ward 12)	*	*	*	*	*	*	*	***
18	16.02	Ward	16	US Hwy 52 & 79th Ave SE (Ward 16)	*	*	*	*	*	*	*	***
19	17.01	Ward	17	US Hwy 2 & 54th St/62nd St NW (Ward 17)	*	*	*	*	*	*	*	***
20	23.01	Ward	23	139th St SE (Ward 23) & ND Hwy 23	*	*	*	*	*	*	*	***
21	24.02	Ward	24	142nd St SW (Ward 501) & 359th Ave SW/ND Hwy 53 (Ward 24)	*	*	*	*	*	*	*	***
22	501.01	Ward	501	142nd St SW (Ward 501) & 247th Ave SW/ND Hwy 23	*	*	*	*	*	*	*	***
23	504.02	Ward	504	US Hwy 52 & Co Rd 19 S (Ward 504)	*	*	*	*	*	*	*	***
24	10.04	Ward	10	US Highway 83/N Broadway & 46th Ave NE (Ward 10)	*	*	*	*	*	*	*	**
25	502.02	Ward	502	US Hwy 52 & 135th Ave SE (Ward 502)	*	*	*	*	*	*	*	**
26	4.01	Ward	4	US Highway 52 & 366th Ave NW (Ward 4)	*	*	*	*	*	*	*	**
27	6.01	Ward	6	ND State Highway 28 & 184th Ave NW/Garfield Ave W (Ward 6)	*	*	*	*	*	*	*	**
28	6.03	Ward	6	184th St NW (Ward ) & 198th Ave NW (Ward 6)	*	*	*	*	*	*	*	**
29	8.02	Ward	8	Co Rd 15 W (Ward 15) & 128th Ave NW (Ward 8)	*	*	*	*	*	*	*	**
30	8.05	Ward	8	153rd St NE (Ward 23) & 128th Ave NE (Ward 8)	*	*	*	*	*	*	*	**
31	10.05	Ward	10	27th St NE (Ward 19) & 46th Ave NE (Ward 10)	*	*	*	*	*	*	*	**
32	12.01	Ward	12	62nd St NW (Ward 17) & 22nd St SW (Ward 12)	*	*	*	*	*	*	*	**
33	12.05	Ward	12	US Highway 2 & 104th St SE (Ward 12)	*	*	*	*	*	*	*	**
34	14.03	Ward	14	16th St SW (Ward 14) & 37th Ave SW (Ward 14)	*	*	*	*	*	*	*	**
35	16.01	Ward	16	US Hwy 83 & 93rd Ave SW (Ward 16)	*	*	*	*	*	*	*	**
36	20.02	Ward	20	142nd St SW (Ward 501) & 177th Ave SW (Ward 20)	*	*	*	*	*	*	*	**
37	20.03	Ward	20	US Hwy 83 & 177th Ave SW (Ward 20)	*	*	*	*	*	*	*	**
38	22.04	Ward	22	US Hwy 83 & 303rd Ave SW (Ward 22)	*	*	*	*	*	*	*	**
39	23.04	Ward	23	US Hwy 2/Burdick Expy E & 153rd St NE (Ward 23)	*	*	*	*	*	*	*	**
40	24.03	Ward	24	US Hwy 83 & 359th Ave SW/SE (Ward 24)	*	*	*	*	*	*	*	**
41	500.01	Ward	500	254th St SW/ND Hwy 28 (Ward 500) & 247th Ave SW/ND Hwy 23	*	*	*	*	*	*	*	**
42	502.01	Ward	502	US Hwy 83 & 135th Ave SW/SE (Ward 502)	*	*	*	*	*	*	*	**
43	14.05	Ward	14	38th St SE (Ward 14) & 37th Ave SE (Ward 14)	*	*	*	*	*	*	*	*
44	2.03	Ward	2	436th St NW (Ward 3) & 422nd Ave NW (Ward 2)	*	*	*	*	*	*	*	*
45	8.04	Ward	8	27th St NE (Ward 19) & 128th Ave NE (Ward 8)	*	*	*	*	*	*	*	*
46	9.03	Ward	9	338th St SW (Ward 9) & 205th Ave SW (Ward 20)	*	*	*	*	*	*	*	*
47	9.04	Ward	9	325th St SW (Ward 9) & 177th Ave SW (Ward 20)	*	*	*	*	*	*	*	*
48	9.05	Ward	9	310th St SW (Ward 9) & 54th Ave SW (Ward 14)	*	*	*	*	*	*	*	*
49	9.07	Ward	9	US Highway 2/86th Ave NW & 310th St NW (Ward 9)	*	*	*	*	*	*	*	*
50	12.02	Ward	12	27th St NE (Ward 19) & 4th Ave NE (Ward 12)	*	*	*	*	*	*	*	*
51	12.03	Ward	12	55th St NE (Ward 12) & 4th Ave NE (Ward 12)	*	*	*	*	*	*	*	*
52	12.07	Ward	12	55th St SE (Ward 12) & US Highway 2	*	*	*	*	*	*	*	*
53	14.01	Ward	14	62nd St SW (Ward 14) & 54th Ave SW (Ward 14)	*	*	*	*	*	*	*	*
54	14.02	Ward	14	62nd St SW (Ward 17) & 37th Ave SW (Ward 14)	*	*	*	*	*	*	*	*
55	14.06	Ward	14	Co Hwy 19 S (Ward 504) & 72nd St SE (Ward 14)	*	*	*	*	*	*	*	*
56	15.02	Ward	15	Co Rd 15 W/4th Ave NW (Ward 15) & 54th St NW (Ward 17)	*	*	*	*	*	*	*	*
57	16.03	Ward	16	Co Rd 19 S (Ward 504) & 79th Ave SE (Ward 16)	*	*	*	*	*	*	*	*
58	23.02	Ward	23	US Hwy 52 & 139th St SE (Ward 23)	*	*	*	*	*	*	*	*
59	24.01	Ward	24	254th St SW/ND Hwy 28 & 359th Ave SW/ND Hwy 53 (Ward 24)	*	*	*	*	*	*	*	*
60	9.01	Ward	9	338th St SW (Ward 9) & 303rd Ave SW (Ward 22)	*	*	*	*	*	*	*	*
61	9.06	Ward	9	310th St NW (Ward 9) & 72nd Ave NW (Ward 10)	*	*	*	*	*	*	*	*
62	10.06	Ward	10	55th St NE (Ward 10) & 46th Ave NE (Ward 10)	*	*	*	*	*	*	*	*
63	12.06	Ward	12	55th St SE (Ward 12) & 37th Ave SE (Ward 14)	*	*	*	*	*	*	*	*
64	14.08	Ward	14	72nd St SE (Ward 14) & 37th Ave SE (Ward 14)	*	*	*	*	*	*	*	*
65	14.09	Ward	14	72nd St SE (Ward 14) & 11th Ave SE	*	*	*	*	*	*	*	*
66	22.01	Ward	22	254th St SW/ND Hwy 28 (Ward 500) & 303rd Ave SW (Ward 22)	*	*	*	*	*	*	*	*

Total Stars -- 16 29 10 7 27 9 36  
 % That Gets Star -- 24% 44% 15% 11% 41% 14% 55%

Totals	#	%
*****	0	0%
*****	0	0%
*****	2	3%
*****	6	9%
*****	15	23%
*****	19	29%
*	17	26%
-	7	11%
	66	100%

- Stars**
- Skew - If intersection is skewed at an angle of 15 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 w/
  - Total Crashes - If intersection has at least 1 crash.
  - Ratio (Min/Maj) - If intersection has an ADT ratio in the range of 0.2 to 0.8.

# HIGHWAY SAFETY IMPROVEMENT PROGRAM (HSIP) PROJECT APPLICATION

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

## US Highway 52 & 198th St NW (Ward 8)

**Agency Name:** Ward County  
**Contact Name:** Dana Larsen  
**Email Address:** dana.larsen@wardnd.com

**ND DOT District:** 4  
**Telephone Number:** 701-838-2810

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: Yes  
Urban/Rural: Rural      Flashers: No  
County: Ward      Major ADT: 1950  
Entering ADT: 2065      Minor ADT: 115

- 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 TBD, 2008 - 2012

	Total	Angle	K+A
Crashes	0	0	0.00
Rate (per MVM)	0.0	0.0	0.0

	Value	Critical	Risk Ranking
Skew	No	Yes	
On/Near Curve	Yes	Yes	★
Development	Yes	Yes	★
Near RR Crossing	Yes	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 -
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	Installed	\$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	1	\$2,450.00	
			\$5,700.00	

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	\$5,130
Local Match (10% of Total project cost)	\$570
<b>Total Project Cost</b>	<b>\$5,700</b>

### 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)

## 338th St SW (Ward 9) & ND Highway 23/247th Ave SW

**Agency Name:** Ward County  
**Contact Name:** Dana Larsen  
**Email Address:** dana.larsen@wardnd.com

**ND DOT District:** 4  
**Telephone Number:** 701-838-2810

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: Ward      Major ADT: 3025  
Entering ADT: 3608      Minor ADT: 583

- 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 TBD, 2008 - 2012

	Total	Angle	K+A
Crashes	1	0	0.00
Rate (per MVM)	0.2	0.0	0.0

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

★★★★



### Describe Proposed Safety Improvements

Description	Unit Cost	Units	Cost	Notes - Oil County Project (Junction Sign/Rumbles - Sheet 51-84)
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	1	\$50,000.00	
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	0	\$0.00	
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	1	\$2,450.00	
			\$61,450.00	

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	\$55,305
Local Match (10% of Total project cost)	\$6,145
<b>Total Project Cost</b>	<b>\$61,450</b>

### 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)

## US Highway 52 & 184th St NW (Ward 11)

**Agency Name:** Ward County

**ND DOT District:** 4

**Contact Name:** Dana Larsen

**Telephone Number:** 701-838-2810

**Email Address:** dana.larsen@wardnd.com

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: Ward      Major ADT: 3330  
 Entering ADT: 3590      Minor ADT: 1925

- 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 TBD, 2008 - 2012

	Total	Angle	K+A
Crashes	1	0	0.00
Rate (per MVM)	0.2	0.0	0.0



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

★★★★

### Describe Proposed Safety Improvements

Description	Unit Cost	Units	Cost	Notes - Oil County Project (Junction Sign/STOP - Sheet 51-20)
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	1	\$50,000.00
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	0	\$0.00
Upgrade Junction Sign	\$350	per sign	0	\$0.00
Upgrade Stop Ahead Sign	\$450	per sign	1	\$450.00
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	1	\$2,450.00
				\$59,600.00

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	\$53,640
Local Match (10% of Total project cost)	\$5,960
<b>Total Project Cost</b>	<b>\$59,600</b>

### 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)

## US Highway 52/2nd Ave & Power St/Main St (Ward 5)

**Agency Name:** Ward County

**ND DOT District:** 4

**Contact Name:** Dana Larsen

**Telephone Number:** 701-838-2810

**Email Address:** dana.larsen@wardnd.com

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: Yes  
 Urban/Rural: Rural      Flashers: No  
 County: Ward      Major ADT: 1835  
 Entering ADT: 1985      Minor ADT: 300

- 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 TBD, 2008 - 2012

	Total	Angle	K+A
Crashes	0	0	0.00
Rate (per MVM)	0.0	0.0	0.0



	Value	Critical	Risk Ranking
Skew	No	Yes	
On/Near Curve	Yes	Yes	★
Development	Yes	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 -
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	Installed	\$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	1	\$450.00
Upgrade Stop Bar	\$250	per marking	1	\$250.00
Review Signs and CST	\$2,450	per intersection	1	\$2,450.00
				\$4,300.00

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	\$3,870
Local Match (10% of Total project cost)	\$430
<b>Total Project Cost</b>	<b>\$4,300</b>

### 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)

## 436th Ave NW (Ward 2) & 6th St NW/415th Ave NW (Ward 1)

**Agency Name:** Ward County

**ND DOT District:** 4

**Contact Name:** Dana Larsen

**Telephone Number:** 701-838-2810

**Email Address:** dana.larsen@wardnd.com

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: Ward      Major ADT: 623  
 Entering ADT: 803      Minor ADT: 360

- 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 TBD, 2008 - 2012

	Total	Angle	K+A
Crashes	0	0	0.00
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	Yes	Yes	★
Distance from previous STOP	No	Yes	
Volume Cross Product	Yes	≥ 100,000	★
Total Crashes	0	>0	

★★★★



### Describe Proposed Safety Improvements

Description	Unit Cost	Units	Cost	Notes - Oil County Project (Junction Sign/Rumble - Sheet 51-6)
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	1	\$350.00
Upgrade Junction Sign	\$350	per sign	0	\$0.00
Upgrade Stop Ahead Sign	\$450	per sign	1	\$450.00
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	1	\$2,450.00
				\$9,950.00

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	\$8,955
Local Match (10% of Total project cost)	\$995
<b>Total Project Cost</b>	<b>\$9,950</b>

### 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)

## US Highway 52 & 422nd Ave NW/6th St NE (Ward 2)

**Agency Name:** Ward County

**ND DOT District:** 4

**Contact Name:** Dana Larsen

**Telephone Number:** 701-838-2810

**Email Address:** dana.larsen@wardnd.com

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: Yes  
Urban/Rural: Rural      Flashers: No  
County: Ward      Major ADT: 2175  
Entering ADT: 3345      Minor ADT: 1170

- 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 TBD, 2008 - 2012

	Total	Angle	K+A
Crashes	0	0	0.00
Rate (per MVM)	0.0	0.0	0.0

	Value	Critical	Risk Ranking
Skew	Yes	Yes	★
On/Near Curve	No	Yes	
Development	Yes	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 -
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	1	\$50,000.00
Close Median	\$25,000	per intersection	0	\$0.00
Installing Street Lights	\$6,000	per street light	Installed	\$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	1	\$450.00
Upgrade Stop Bar	\$250	per marking	1	\$250.00
Review Signs and CST	\$2,450	per intersection	1	\$2,450.00
				\$54,300.00

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	\$48,870
Local Match (10% of Total project cost)	\$5,430
<b>Total Project Cost</b>	<b>\$54,300</b>

### 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)

## US Highway 83 & 128th Ave NW/NE (Ward 8)

**Agency Name:** Ward County  
**Contact Name:** Dana Larsen  
**Email Address:** dana.larsen@wardnd.com

**ND DOT District:** 4  
**Telephone Number:** 701-838-2810

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: Overhead  
County: Ward      Major ADT: 5598  
Entering ADT: 6233      Minor ADT: 635

- 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 TBD, 2008 - 2012

	Total	Angle	K+A
Crashes	0	0	0.00
Rate (per MVM)	0.0	0.0	0.0

	Value	Critical	Risk Ranking
Skew	No	Yes	
On/Near Curve	Yes	Yes	★
Development	Yes	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 - Consideration should be given for large vehicles (home movers) in the design of median. If directional median is not feasible, mainline dynamic warning signals may be considered as an alternate safety improvement. Oil County Project (Junction Sign/Rumbles/STOP - Sheet 51-24)
Roundabout	\$1,000,000	per intersection	0	\$0.00
Directional Median	\$750,000	per intersection	1	\$750,000.00
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	0	\$0.00
Upgrade Junction Sign	\$350	per sign	0	\$0.00
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	1	\$2,450.00
				\$760,750.00

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	\$684,675
Local Match (10% of Total project cost)	\$76,075
<b>Total Project Cost</b>	<b>\$760,750</b>

### 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)

## US Highway 83 & 46th Ave NW (Ward 10)

**Agency Name:** Ward County

**ND DOT District:** 4

**Contact Name:** Dana Larsen

**Telephone Number:** 701-838-2810

**Email Address:** dana.larsen@wardnd.com

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: Ward      Major ADT: 6505  
 Entering ADT: 6813      Minor ADT: 615

- 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 TBD, 2008 - 2012

	Total	Angle	K+A
Crashes	2	0	0.00
Rate (per MVM)	0.2	0.0	0.0

	Value	Critical	Risk Ranking
Skew	No	Yes	
On/Near Curve	Yes	Yes	★
Development	No	Yes	
Near RR Crossing	No	Yes	
Distance from previous STOP	No	Yes	
Volume Cross Product	Yes	≥ 100,000	★
Total Crashes	2	>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	1	\$50,000.00
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	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	1	\$450.00
Upgrade Stop Bar	\$250	per marking	1	\$250.00
Review Signs and CST	\$2,450	per intersection	1	\$2,450.00
				\$60,300.00

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	\$54,270
Local Match (10% of Total project cost)	\$6,030
<b>Total Project Cost</b>	<b>\$60,300</b>

### 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)

## US Highway 83/S Broadway St & 54th Ave SW/SE (Ward 14)

**Agency Name:** Ward County

**ND DOT District:** 4

**Contact Name:** Dana Larsen

**Telephone Number:** 701-838-2810

**Email Address:** dana.larsen@wardnd.com

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: Ward      Major ADT: 4803  
 Entering ADT: 5335      Minor ADT: 533

- 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 TBD, 2008 - 2012

	Total	Angle	K+A
Crashes	1	0	0.00
Rate (per MVM)	0.1	0.0	0.0



	Value	Critical	Risk Ranking
Skew	No	Yes	
On/Near Curve	No	Yes	
Development	Yes	Yes	★
Near RR Crossing	No	Yes	
Distance from previous STOP	No	Yes	
Volume Cross Product	Yes	≥ 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	1	\$50,000.00
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	2	\$900.00
Upgrade Stop Bar	\$250	per marking	2	\$500.00
Review Signs and CST	\$2,450	per intersection	1	\$2,450.00
				\$62,150.00

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	\$55,935
Local Match (10% of Total project cost)	\$6,215
<b>Total Project Cost</b>	<b>\$62,150</b>

### 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)

## US Hwy 52 & Co Rd 19 S (Ward 504)

**Agency Name:** Ward County  
**Contact Name:** Dana Larsen  
**Email Address:** dana.larsen@wardnd.com

**ND DOT District:** 4  
**Telephone Number:** 701-838-2810

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): Divided      Street Lights: No  
Urban/Rural: Rural      Flashers: No  
County: Ward      Major ADT: 4168  
Entering ADT: 4368      Minor ADT: 400

- 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 TBD, 2008 - 2012

	Total	Angle	K+A
Crashes	3	0	0.00
Rate (per MVM)	0.4	0.0	0.0

	Value	Critical	Risk Ranking
Skew	No	Yes	
On/Near Curve	Yes	Yes	★
Development	No	Yes	
Near RR Crossing	No	Yes	
Distance from previous STOP	No	Yes	
Volume Cross Product	Yes	≥ 100,000	★
Total Crashes	3	>0	★★★



### Describe Proposed Safety Improvements

Description	Unit Cost	Units	Cost	Notes - Oil County Project (STOP/Stop Ahead - Sheet 51-62)
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	1	\$50,000.00	
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	0	\$0.00	
Upgrade Junction Sign	\$350 per sign	1	\$350.00	
Upgrade Stop Ahead Sign	\$450 per sign	0	\$0.00	
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	1	\$2,450.00	
			\$59,500.00	

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	\$53,550
Local Match (10% of Total project cost)	\$5,950
<b>Total Project Cost</b>	<b>\$59,500</b>

### 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)

## US Hwy 52 & 37th Ave SE (Ward 14)

**Agency Name:** Ward County  
**Contact Name:** Dana Larsen  
**Email Address:** dana.larsen@wardnd.com

**ND DOT District:** 4  
**Telephone Number:** 701-838-2810

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: Ward      Major ADT: 3415  
Entering ADT: 3755      Minor ADT: 340

- 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 TBD, 2008 - 2012

	Total	Angle	K+A
Crashes	2	0	0.00
Rate (per MVM)	0.3	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	No	Yes	
Volume Cross Product	Yes	≥ 100,000	★
Total Crashes	2	>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	1	\$50,000.00	
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	0	\$0.00	
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	1	\$2,450.00	
			<b>\$61,450.00</b>	

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	\$55,305
Local Match (10% of Total project cost)	\$6,145
<b>Total Project Cost</b>	<b>\$61,450</b>

### 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)

## 590th St NW (Ward 2) & 436th Ave NW (Ward 2)

**Agency Name:** Ward County

**ND DOT District:** 4

**Contact Name:** Dana Larsen

**Telephone Number:** 701-838-2810

**Email Address:** dana.larsen@wardnd.com

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: Ward      Major ADT: 235  
 Entering ADT: 375      Minor 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 TBD, 2008 - 2012

	Total	Angle	K+A
Crashes	0	0	0.00
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 - Oil County Project (Junction Sign - Sheet 51-2)
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	1	\$2,450.00	
			\$5,700.00	

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	\$5,130
Local Match (10% of Total project cost)	\$570
<b>Total Project Cost</b>	<b>\$5,700</b>

### 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)

## US Highway 52 & 394th St NW (Ward 5)

**Agency Name:** Ward County  
**Contact Name:** Dana Larsen  
**Email Address:** dana.larsen@wardnd.com

**ND DOT District:** 4  
**Telephone Number:** 701-838-2810

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: Ward      Major ADT: 1998  
Entering ADT: 2088      Minor ADT: 180

- 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 TBD, 2008 - 2012

	Total	Angle	K+A
Crashes	0	0	0.00
Rate (per MVM)	0.0	0.0	0.0

	Value	Critical	Risk Ranking
Skew	No	Yes	
On/Near Curve	Yes	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 - Oil County Project (Junction Sign/Stop Ahead Sign - Sheet 51-8)
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	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	1	\$450.00
Upgrade Stop Bar	\$250	per marking	1	\$250.00
Review Signs and CST	\$2,450	per intersection	1	\$2,450.00
				\$10,300.00

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	\$9,270
Local Match (10% of Total project cost)	\$1,030
<b>Total Project Cost</b>	<b>\$10,300</b>

### 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)

## ND State Highway 28 & 198th Ave NW/Washington Ave W (Ward 6)

Agency Name: Ward County

ND DOT District: 4

Contact Name: Dana Larsen

Telephone Number: 701-838-2810

Email Address: dana.larsen@wardnd.com

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: Yes  
 Urban/Rural: Rural      Flashers: No  
 County: Ward      Major ADT: 678  
 Entering ADT: 768      Minor ADT: 180

- 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 TBD, 2008 - 2012

	Total	Angle	K+A
Crashes	0	0	0.00
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	Yes	Yes	★
Distance from previous STOP	No	Yes	
Volume Cross Product	No	≥ 100,000	
Total Crashes	0	>0	

★★★



### Describe Proposed Safety Improvements

Description	Unit Cost	Units	Cost	Notes - Oil County Project (Junction Sign/Stop Ahead Sign/ STOP - Sheet 51-13)
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	Installed	\$0.00	
Upgrade Stop Sign	\$350 per sign	0	\$0.00	
Upgrade Junction Sign	\$350 per sign	0	\$0.00	
Upgrade Stop Ahead Sign	\$450 per sign	0	\$0.00	
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	1	\$2,450.00	
			\$3,150.00	

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	\$2,835
Local Match (10% of Total project cost)	\$315
<b>Total Project Cost</b>	<b>\$3,150</b>

### 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)

## US Highway 2 & 72nd St NW (Ward 10)

**Agency Name:** Ward County

**ND DOT District:** 4

**Contact Name:** Dana Larsen

**Telephone Number:** 701-838-2810

**Email Address:** dana.larsen@wardnd.com

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): Divided      Street Lights: Yes  
 Urban/Rural: Rural      Flashers: No  
 County: Ward      Major ADT: 6465  
 Entering ADT: 7038      Minor ADT: 573

- 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 TBD, 2008 - 2012

	Total	Angle	K+A
Crashes	0	0	0.00
Rate (per MVM)	0.0	0.0	0.0

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



### Describe Proposed Safety Improvements

Description	Unit Cost	Units	Cost	Notes - Oil County Project (Junction Sign/Stop Ahead Sign - Sheet 51-41)
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	1	\$50,000.00	
Close Median	\$25,000 per intersection	0	\$0.00	
Installing Street Lights	\$6,000 per street light	Installed	\$0.00	
Upgrade Stop Sign	\$350 per sign	1	\$350.00	
Upgrade Junction Sign	\$350 per sign	0	\$0.00	
Upgrade Stop Ahead Sign	\$450 per sign	0	\$0.00	
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	1	\$2,450.00	
			\$53,500.00	

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	\$48,150
Local Match (10% of Total project cost)	\$5,350
<b>Total Project Cost</b>	<b>\$53,500</b>

### 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)

## Co Rd 15 W (ward 15) & 46th Ave NW (Ward 10)

**Agency Name:** Ward County  
**Contact Name:** Dana Larsen  
**Email Address:** dana.larsen@wardnd.com

**ND DOT District:** 4  
**Telephone Number:** 701-838-2810

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: Yes  
Urban/Rural: Rural      Flashers: No  
County: Ward      Major ADT: 525  
Entering ADT: 785      Minor ADT: 520

- 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 TBD, 2008 - 2012

	Total	Angle	K+A
Crashes	0	0	0.00
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	No	Yes	
Volume Cross Product	Yes	≥ 100,000	★
Total Crashes	0	>0	★★★



### Describe Proposed Safety Improvements

Description	Unit Cost	Units	Cost	Notes - Oil County Project (Junction Sign/Stop Ahead Sign - Sheet 51-38)
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	Installed	\$0.00	
Upgrade Stop Sign	\$350 per sign	1	\$350.00	
Upgrade Junction Sign	\$350 per sign	0	\$0.00	
Upgrade Stop Ahead Sign	\$450 per sign	0	\$0.00	
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	1	\$2,450.00	
			\$3,500.00	

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	\$3,150
Local Match (10% of Total project cost)	\$350
<b>Total Project Cost</b>	<b>\$3,500</b>

### 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)

## US Hwy 52 & 79th Ave SE (Ward 16)

**Agency Name:** Ward County

**ND DOT District:** 4

**Contact Name:** Dana Larsen

**Telephone Number:** 701-838-2810

**Email Address:** dana.larsen@wardnd.com

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: Ward      Major ADT: 4648  
 Entering ADT: 4733      Minor ADT: 85

- 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 TBD, 2008 - 2012

	Total	Angle	K+A
Crashes	0	0	0.00
Rate (per MVM)	0.0	0.0	0.0

	Value	Critical	Risk Ranking
Skew	No	Yes	
On/Near Curve	Yes	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 -
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	2	\$900.00	
Upgrade Stop Bar	\$250 per marking	2	\$500.00	
Review Signs and CST	\$2,450 per intersection	1	\$2,450.00	
			\$12,150.00	

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	\$10,935
Local Match (10% of Total project cost)	\$1,215
<b>Total Project Cost</b>	<b>\$12,150</b>

### 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)

## US Hwy 2 & 54th St/62nd St NW (Ward 17)

**Agency Name:** Ward County  
**Contact Name:** Dana Larsen  
**Email Address:** dana.larsen@wardnd.com

**ND DOT District:** 4  
**Telephone Number:** 701-838-2810

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: Yes  
Urban/Rural: Rural      Flashers: No  
County: Ward      Major ADT: 6550  
Entering ADT: 7773      Minor ADT: 1223

- 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 TBD, 2008 - 2012

	Total	Angle	K+A
Crashes	0	0	0.00
Rate (per MVM)	0.0	0.0	0.0

	Value	Critical	Risk Ranking
Skew	No	Yes	
On/Near Curve	Yes	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 - Consideration should be given for large vehicles (home movers) in the design of median. If directional median is not feasible, mainline dynamic warning signals may be considered as an alternate safety improvement. Oil County Project (Junction Sign/Stop Ahead/STOP - Sheet 51-46)
Roundabout	\$1,000,000 per intersection	0	\$0.00	
Directional Median	\$750,000 per intersection	1	\$750,000.00	
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	Installed	\$0.00	
Upgrade Stop Sign	\$350 per sign	0	\$0.00	
Upgrade Junction Sign	\$350 per sign	0	\$0.00	
Upgrade Stop Ahead Sign	\$450 per sign	0	\$0.00	
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	1	\$2,450.00	
			\$753,850.00	

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	\$678,465
Local Match (10% of Total project cost)	\$75,385
<b>Total Project Cost</b>	<b>\$753,850</b>

### 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)

## 139th St SE (Ward 23) & ND Hwy 23

**Agency Name:** Ward County

**ND DOT District:** 4

**Contact Name:** Dana Larsen

**Telephone Number:** 701-838-2810

**Email Address:** dana.larsen@wardnd.com

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: Ward      Major ADT: 335  
 Entering ADT: 570      Minor ADT: 235

- 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 TBD, 2008 - 2012

	Total	Angle	K+A
Crashes	0	0	0.00
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 - Oil County Project (Junction Sign/STOP/Stop Ahead Sign - Sheet 51-100)
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	0	\$0.00	
Upgrade Junction Sign	\$350 per sign	0	\$0.00	
Upgrade Stop Ahead Sign	\$450 per sign	0	\$0.00	
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	1	\$2,450.00	
			<b>\$9,850.00</b>	

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	\$8,865
Local Match (10% of Total project cost)	\$985
<b>Total Project Cost</b>	<b>\$9,850</b>

### 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)

## 142nd St SW (Ward 501) & 359th Ave SW/ND Hwy 53 (Ward 24)

**Agency Name:** Ward County

**ND DOT District:** 4

**Contact Name:** Dana Larsen

**Telephone Number:** 701-838-2810

**Email Address:** dana.larsen@wardnd.com

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: Ward      Major ADT: 80  
 Entering ADT: 100      Minor ADT: 20

- 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 TBD, 2008 - 2012

	Total	Angle	K+A
Crashes	0	0	0.00
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	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	1	\$2,450.00
				\$5,700.00

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	\$5,130
Local Match (10% of Total project cost)	\$570
<b>Total Project Cost</b>	<b>\$5,700</b>

### 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)

## 142nd St SW (Ward 501) & 247th Ave SW/ND Hwy 23

**Agency Name:** Ward County

**ND DOT District:** 4

**Contact Name:** Dana Larsen

**Telephone Number:** 701-838-2810

**Email Address:** dana.larsen@wardnd.com

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: Ward      Major ADT: 1215  
 Entering ADT: 1293      Minor ADT: 78

- 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

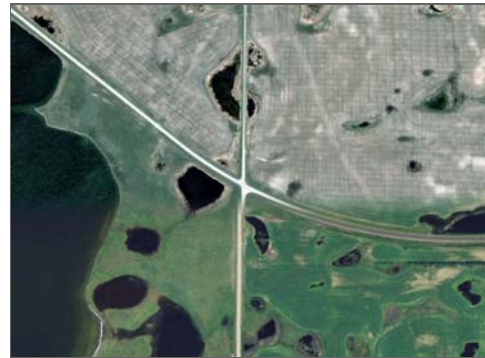
### Describe Current Safety Issues & Systemic Ranking Review

North Dakota TBD, 2008 - 2012

	Total	Angle	K+A
Crashes	0	0	0.00
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	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	1	\$2,450.00	
			\$6,150.00	

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	\$5,535
Local Match (10% of Total project cost)	\$615
<b>Total Project Cost</b>	<b>\$6,150</b>

### 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)

## US Hwy 52 & Co Rd 19 S (Ward 504)

**Agency Name:** Ward County  
**Contact Name:** Dana Larsen  
**Email Address:** dana.larsen@wardnd.com

**ND DOT District:** 4  
**Telephone Number:** 701-838-2810

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): Divided              Street Lights: No  
Urban/Rural: Rural                      Flashers: No  
County: Ward                              Major ADT: 2638  
Entering ADT: 2788                      Minor ADT: 300

- 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 TBD, 2008 - 2012

	Total	Angle	K+A
Crashes	0	0	0.00
Rate (per MVM)	0.0	0.0	0.0

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



### Describe Proposed Safety Improvements

Description	Unit Cost	Units	Cost	Notes - Oil County Project (Junction Sign/Stop Ahead Sign - Sheet 51-66)
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	1	\$50,000.00	
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	1	\$350.00	
Upgrade Junction Sign	\$350 per sign	0	\$0.00	
Upgrade Stop Ahead Sign	\$450 per sign	0	\$0.00	
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	1	\$2,450.00	
			\$59,500.00	

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	\$53,550
Local Match (10% of Total project cost)	\$5,950
<b>Total Project Cost</b>	<b>\$59,500</b>

### NDDOT Central Office Only

Project Accepted?  Yes  No      Reference Number      ID Number

Notes



Ward County Rural Segment Projects

Corridor ID	Local Street Name	Start	End	Length	Risk Ranking	4" Edge Line	Shoulder Rumble Strip	Edge Line Rumble Strip	6" Edge Lines	Center Line R	Project Cost (\$)
1.01	534th St	State Route 50	436th Ave		****	0.0	0.0	8.8	8.8	0.0	\$30,800
2.02	436th Ave	590th ST	Ward 11		****	0.0	5.8	0.0	5.8	0.0	\$17,400
5.03	Main St	US Hwy 52	Ward 7		***	0.0	0.0	0.0	1.8	0.0	\$1,170
8.01	128th Ave	US Hwy 52	US Hwy 83		***	0.0	12.9	0.0	12.9	0.0	\$38,700
9.03	310th St	Ward 20	Ward 14		***	0.0	11.5	0.0	11.5	0.0	\$44,700
10.02	19th Ave	Granly St	US Hwy 2		****	0.0	7.6	0.0	7.6	0.0	\$22,800
12.03	4th Ave	55th St	US Hwy 2		****	0.0	4.1	0.0	4.1	4.1	\$24,600
14.02	54th Ave	Ward 9	62nd St		***	0.0	0.0	17.8	17.8	0.0	\$62,300
14.04	54th Ave	US Hwy 83	1 mile east of 13th St		***	0.0	0.0	2.1	2.1	0.0	\$7,350
15.02	57th St	US Hwy 83	Ward 17		****	0.0	0.0	2.2	2.2	2.2	\$14,300
15.03	County Road 15 W	Ward 17	Ward 10		***	0.0	0.0	2.8	2.8	2.8	\$18,200
15.04	County Road 15 W	Ward 10	1 mile South of 86th St		****	0.0	0.0	2.2	2.2	0.0	\$7,700
17.02	54th St	US Hwy 2	Ward 15		***	0.0	0.0	1.3	1.3	1.3	\$8,450
23.04	153rd St	US Hwy 2	66th St		****	0.0	0.0	9.1	9.1	0.0	\$31,850
24.02	359th Ave	142nd St	US Hwy 83		***	0.0	0.0	9.7	9.7	0.0	\$33,950
						0.0	41.9	56.0	99.7	10.4	\$ 364,270

Detailed Corridor Information

Ward County Corridors						≥ 45 MPH OR ≤ 40 MPH											Access		Weighted ADT	
Corridor	Route	#	Local Name	Start	End	Road Type	Facility	Speed Limit	Ana lyst Not	Length	Edge Risk Assesment	ERA 2	Lane Width	Paved Shoulder Width	Gravel Shoulder Width	Curb & Gutter?	Shoulder Type	Total		Access/ Mile
1.01	Ward 1	1	534th St	Intersection with state route 50	Intersection with 436th Ave	Rural Paved	2-Lane	High		8.84	1		12	0	0	0	None	72	8.1	309
2.01	Ward 2	2	436th Ave	Intersection with 72nd Ave	Intersection with 450th Ave	Rural Paved	2-Lane	High		1.98	1		12	0	0	0	None	14	7.1	145
2.02	Ward 2	2	436th Ave	Intersection with 590th ST	Intersection with Ward 11	Rural Paved	2-Lane	High		5.79	1		12	2	0	0	Paved	34	5.9	395
2.03	Ward 2	2	6th St	Intersection with Ward 1	Intersection with US Hwy 52	Rural Paved	2-Lane	Low		1.08	2	Drop offs & objects	12	0	4	0	Gravel	51	47.2	1230
2.04	Ward 2	2	422nd Ave	Intersection with US Hwy 52	Intersection with Ward 3	Rural Paved	2-Lane	High		4.49	1		12	2	0	0	Paved	39	8.7	430
2.05	Ward 2	2	422nd Ave	Intersection with Ward 3	Intersection with 52nd Ave	Rural Paved	2-Lane	High		4.97	1		12	2	0	0	Paved	31	6.2	230
3.01	Ward 3	3	436th St	Intersection with Ward 4	Intersection with Ward 2	Rural CMC Gravel				4.01							None	0	0.0	25
3.02	Ward 3	3	436th St	Intersection with Ward 2	Intersection with 90th St	Rural CMC Gravel				1.99							None	0	0.0	70
4.01	Ward 4	4	366th Ave	Intersection with US Hwy 52	Intersection with 52nd Ave	Rural CMC Gravel				5.07							None	0	0.0	50
5.01	Ward 5	5	394th St	Intersection with Ward 6	Intersection with 240th Ave	Rural CMC Gravel				4.00							None	0	0.0	62
5.02	Ward 5	5	394th St	Intersection with 240th Ave	Intersection with US Hwy 52	Rural Paved	2-Lane	High		1.95	2	drop offs	12	2	0	0	Paved	7	3.6	115
5.03	Ward 5	5	Main St	Intersection with US Hwy 52	Intersection with Ward 7	Rural Paved	2-Lane	High		1.76	2	water, drop offs	12	2	0	0	Paved	20	11.4	80
6.01	Ward 6	6	184th Ave	Intersection with Ward 5	1 mile to city of carpio	Rural CMC Gravel				7.25							None	0	0.0	55
6.02	Ward 6	6	184th Ave	Intersection with state route 28	Intersection with state route 28	Rural Paved	2-Lane	High		1.77	1		12	2	0	0	Paved	9	5.1	60
6.03	Ward 6	6	198th Ave	Intersection with state route 28	Intersection with Reneville 6	Rural Paved	2-Lane	Low		7.06	2	water, drop offs	12	0	0	0	None	43	6.1	218
7.01	Ward 7	7	282nd Ave	Intersection with Ward 5	Intersection with 52nd Ave	Rural CMC Gravel				0.49							None	0	0.0	230
8.01	Ward 8	8	128th Ave	Intersection with US Hwy 52	Intersection with US Hwy 83	Rural Paved	2-Lane	High		12.88	2	water, drop offs	12	2	0	0	Paved	68	5.3	174
8.02	Ward 8	8	128th Ave	Intersection with US Hwy 83	Intersection with Ward 23	Rural Paved	2-Lane	High		10.87	1		12	2	0	0	Paved	54	5.0	617
9.01	Ward 9	9	338 St	Intersection with 373rd Ave	Intersection with state route 23	Rural Paved	2-Lane	High		8.00	1		12	0	0	0	None	50	6.2	288
9.02	Ward 9	9	338 St	Intersection with state route 23	Intersection with Ward 20	Rural Paved	2-Lane	High		3.35	1		12	2	0	0	Paved	20	6.0	675
9.03	Ward 9	9	310th St	Intersection with Ward 20	Intersection with Ward 14	Rural Paved	2-Lane	High		11.55	1		12	2	0	0	Paved	51	4.4	157
9.04	Ward 9	9	310th St	Intersection with Ward 14	Intersection with US Hwy 2	Rural Paved	2-Lane	High		10.00	1		12	4	0	0	Paved	71	7.1	121
10.01	Ward 10	10	184th St	Intersection with Ward 9	Intersection with Granly St	Rural Paved	2-Lane	High		10.74	1		12	4	0	0	Paved	56	5.2	263
10.02	Ward 10	10	19th Ave	Intersection with Granly St	Intersection with US Hwy 2	Rural Paved	2-Lane	High		7.60	1		12	2	0	0	Paved	75	9.9	671
10.03	Ward 10	10	60 th St	Intersection with Ward 15	Intersection with US Hwy 83	Rural Paved	2-Lane	High		4.82	1		12	8	0	0	Paved	29	6.0	457
10.04	Ward 10A	10A	46th Ave	Intersection with US Hwy 83	Intersection with Ward 19	Rural Paved	2-Lane	High		1.98	1		12	12	0	0	Paved	22	11.1	1793
10.05	No designation		46th Ave	Intersection with Ward 19	Intersection with Ward 12	Rural CMC Gravel				2.00							None	0	0.0	170
11.01	Ward 11	11	184th St	Intersection with US Hwy 52	Intersection with Ward 6	Rural Paved	2-Lane	High		4.89	1		12	0	0	0	None	26	5.3	1680
12.01	Ward 12	12	22nd St	1 mile west of Ward 17	Intersection with Ward 17	Rural Paved	2-Lane	Low		0.91	2	drop offs	12	4	0	0	Paved	23	25.4	260
12.02	Ward 12	12	4th Ave	Intersection with Ward 19	Intersection with 55th St	Rural Paved	2-Lane	High		2.01	1		12	0	2	0	Gravel	16	8.0	3190
12.03	Ward 12	12	4th Ave	Intersection with 55th St	Intersection with US Hwy 2	Rural Paved	2-Lane	High		4.09	1		12	2	0	0	Paved	58	14.2	1204
12.04	Ward 12A	12	55th St	Intersection with Ward 14	Intersection with US Hwy 2	Rural Paved	2-Lane	Low		2.24	1		12	0	0	1	None	41	18.3	881
12.05	Ward 12A	12	55th St	Intersection with US Hwy 2	Intersection with 4th Ave	Rural Paved	2-Lane	Low		0.76	2	no shoulder	12	0	0	0	None	24	31.8	2400
12.06	No designation		55th St	Intersection with 4th Ave	Intersection with 46th Ave	Rural CMC Gravel				3.03							None	0	0.0	115
14.01	Ward 14	14	54th Ave	Intersection with Ward 9	Intersection with 408th St	Rural CMC Gravel				6.03							None	0	0.0	65
14.02	Ward 14	14	54th Ave	Intersection with Ward 9	Intersection with 62nd St	Rural Paved	2-Lane	High		17.84	1		12	2	0	0	Paved	77	4.3	210
14.03	Ward 14	14	37th Ave	Intersection with 54th Ave	Intersection with US Hwy 83	Rural Paved	2-Lane	Low		5.77	1		12	2	0	0	Paved	55	9.5	1010
14.04	Ward 14	14	54th Ave	Intersection with US Hwy 83	1 mile east of 13th St	Rural Paved	2-Lane	High		2.13	1		12	1	1	0	Composite	35	16.4	548
14.05	Ward 14A	14	38th St	1 mile east of 13th St	Intersection with 37th Ave	Rural Paved	2-Lane	Low		1.27	1		12	2	0	0	Paved	33	25.9	300
14.06	Ward 14	14	37th St	Intersection with Ward 14A	Intersection with 72nd Ave Ave	Rural Paved	2-Lane	Low		2.19	2	small clear zone	12	2	0	0	Paved	43	19.6	408
14.07	Ward 14	14	72nd Ave	Intersection with 37th St	Intersection with 11th Ave	Rural Paved	2-Lane	Low		2.01	2	flooding	12	2	0	0	Paved	49	24.3	0
15.02	Ward 15	15	57th St	Intersection with US Hwy 83	Intersection with Ward 17	Rural Paved	2-Lane	High		2.23	1		12	2	2	0	Composite	24	10.8	4010
15.03	Ward 15	15	County Road 15 W	Intersection with Ward 17	Intersection with Ward 10	Rural Paved	2-Lane	High		2.76	2	small clear zone	12	6	0	0	Paved	33	12.0	2510
15.04	Ward 15	15	County Road 15 W	Intersection with Ward 10	1 mile South of 86th St	Rural Paved	2-Lane	High		2.15	1		12	2	0	0	Paved	33	15.3	520
15.05	Ward 15	15	County Road 15 W	1 mile South of 86th St	Intersection with Ward 8	Rural CMC Gravel				5.49							None	0	0.0	70
16.01	Ward 16	16	963rd Ave	Intersection with US Hwy 83	Intersection with US Hwy 52	Rural CMC Gravel				6.79							None	0	0.0	70
16.02	Ward 16	16	79th Ave	Intersection with US Hwy 52	Intersection with 97th St	Rural Paved	2-Lane	Low		1.10	2	flooding	12	2	0	0	Paved	0	0.0	210
16.03	Ward 16	16	79th Ave	Intersection with 97th St	Intersection with 20th Ave	Rural CMC Gravel				6.10							None	0	0.0	138
17.01	Ward 17	17	62nd St	Intersection with Ward 14	Intersection with US Hwy 2	Rural Paved	2-Lane	Low		3.10	1		12	4	0	0	Paved	24	7.8	315
17.02	Ward 17	17	54th St	Intersection with US Hwy 2	Intersection with Ward 15	Rural Paved	2-Lane	High		1.28	1		12	4	0	0	Paved	18	14.0	1575
19.01	Ward 19	19	27th St	Intersection with Ward 12	Intersection with Ward 8	Rural Paved	2-Lane	High		9.09	1		12	2	0	0	Paved	50	5.5	1279
20.01	Ward 20	20	205th Ave	Intersection with 380th St	Intersection with Ward 12	Rural CMC Gravel				2.30							None	0	0.0	80
20.02	Ward 20	20	117th Ave	Intersection with Ward 12	Intersection with 142nd St	Rural CMC Gravel				12.82							None	0	0.0	43
20.03	Ward 20	20	117th Ave	Intersection with 142nd St	Intersection with US Hwy 83	Rural Paved	2-Lane	High		10.03	1		12	2	0	0	Paved	45	4.5	302
22.01	Ward 22	22	303rd Ave	Intersection with Ward 9	Intersection with Corona St	Rural Paved	2-Lane	High		6.36	1		12	2	0	0	Paved	48	7.5	163
22.02	Ward 22	22	303rd Ave	Intersection with Corona St	Intersection with 142nd St	Rural CMC Gravel				7.58							None	0	0.0	65
22.03	Ward 22	22	303rd Ave	Intersection with 142nd St	Intersection with US Hwy 83	Rural CMC Gravel				10.25							None	0	0.0	35
23.01	Ward 23	23	21st Ave	Intersection with 373rd Ave	Intersection with state route 23	Rural Paved	2-Lane	High		9.30	1		12	2	0	0	Paved	46	4.9	141
23.02	Ward 23	23	21st Ave	Intersection with state route 23	Intersection with US Hwy 53	Rural Paved	2-Lane	High		7.67	1		12	2	0	0	Paved	31	4.0	362
23.03	Ward 23	23	153rd St	Quarter mile north of Dakota Ave	Intersection with US Hwy 2	Rural Paved		Rural CMC Gravel, r		10.53							None	0	0.0	101
23.04	Ward 23	23	153rd St	Intersection with US Hwy 2	Intersection with 66th St	Rural Paved	2-Lane	High		9.09	1		12	2	0	0	Paved	63	6.9	310
24.01	Ward 24	24	359th Ave	Intersection with state route 28	Intersection with 142nd St	Rural Paved	2-Lane	High		8.27	1		12	2	0	0	Paved	47	5.7	178
24.02	Ward 24	24	359th Ave	Intersection with 142nd St	Intersection with US Hwy 83	Rural Paved	2-Lane	High		9.70	2	flooding	12	2	0	0	Paved	61	6.3	283
500.01	No designation		254th St	Intersection with State route 23	Intersection with Ward 20	Rural CMC Gravel				5.23							None	0	0.0	40
501.01	No designation		Main St	Intersection with 373rd Ave	Intersection with Ward 24	Rural CMC Gravel				1.06							None	0	0.0	61
501.02	No designation		142nd St	Intersection with Ward 24	Intersection with State route 22	Rural CMC Gravel				8.45							None	0	0.0	54
501.03	No designation	NA	142nd St	Intersection with State route 22	Intersection with Ward 22	Rural Paved	2-Lane	High		5.06	2	small clear zone	12	2	0	0	Paved	21	4.1	85
502.01	No designation		135th Ave	Intersection with US Hwy 83	Intersection with US Hwy 52	Rural CMC Gravel				8.83							None	0	0.0	148
504.01	No designation		Conty Road 19 S	Intersection with US Hwy 52	Intersection with Ward 16	Rural Paved	2-Lane	Low		0.77	1		12	2	0	0	Paved	9	11.7	170
504.02	No designation		Conty Road 19 S	Intersection with Ward 16	Intersection with US Hwy 52	Rural Paved	2-Lane	Low		2.51	1		12	2	0	0	Paved	30	12.0	325
504.03	No designation		Conty Road 19 S	Intersection with US Hwy 52	Intersection with Ward 14	Rural Paved	2-Lane	Low		1.77	1		12	2	0	0	Paved	64	36.2	488

Detailed Corridor Information

Ward County Corridors						Years of Data	AADT	Total Crashes	Severe Crashes	Intersection Crashes	Severity					Diagram - SEVERE Only							
Corridor	Route	#	Local Name	Start	End						K	A	B	C	PDO	Rear End	Sideswipe Passing	Angle (Opp Dir)	Singe Veh	Right Angle	Angle (Same Dir)	Angle (Not Specific)	Head On
1.01	Ward 1	1	534th St	Intersection with state route 50	Intersection with 436th Ave	5	309	4	-	-	-	-	2	-	2	-	-	-	-	-	-	-	-
2.01	Ward 2	2	436th Ave	Intersection with 72nd Ave	Intersection with 450th Ave	5	145	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.02	Ward 2	2	436th Ave	Intersection with 590th ST	Intersection with Ward 11	5	395	2	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-
2.03	Ward 2	2	6th St	Intersection with Ward 1	Intersection with US Hwy 52	5	1,230	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.04	Ward 2	2	422nd Ave	Intersection with US Hwy 52	Intersection with Ward 3	5	430	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
2.05	Ward 2	2	422nd Ave	Intersection with Ward 3	Intersection with 52nd Ave	5	230	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.01	Ward 3	3	436th St	Intersection with Ward 4	Intersection with Ward 2	5	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.02	Ward 3	3	436th St	Intersection with Ward 2	Intersection with 90th St	5	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.01	Ward 4	4	366th Ave	Intersection with US Hwy 52	Intersection with 52nd Ave	5	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.01	Ward 5	5	394th St	Intersection with Ward 6	Intersection with 240th Ave	5	62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.02	Ward 5	5	394th St	Intersection with 240th Ave	Intersection with US Hwy 52	5	115	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.03	Ward 5	5	Main St	Intersection with US Hwy 52	Intersection with Ward 7	5	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.01	Ward 6	6	184th Ave	Intersection with Ward 5	1 mile to city of carpio	5	55	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
6.02	Ward 6	6	184th Ave	1 mile to city of carpio	Intersection with state route 28	5	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.03	Ward 6	6	198th Ave	Intersection with state route 28	Intersection with Reneville 6	5	218	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.01	Ward 7	7	282nd Ave	Intersection with Ward 5	Intersection with 52nd Ave	5	230	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8.01	Ward 8	8	128th Ave	Intersection with US Hwy 52	Intersection with US Hwy 83	5	174	4	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-
8.02	Ward 8	8	128th Ave	Intersection with US Hwy 83	Intersection with Ward 23	5	617	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9.01	Ward 9	9	338 St	Intersection with 373rd Ave	Intersection with state route 23	5	288	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9.02	Ward 9	9	338 St	Intersection with state route 23	Intersection with Ward 20	5	675	2	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-
9.03	Ward 9	9	310th St	Intersection with Ward 20	Intersection with Ward 14	5	157	5	1	-	-	-	1	-	4	-	-	-	-	-	-	-	-
9.04	Ward 9	9	310th St	Intersection with Ward 14	Intersection with US Hwy 2	5	121	3	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-
10.01	Ward 10	10	184th St	Intersection with Ward 9	Intersection with Granly St	5	263	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
10.02	Ward 10	10	19th Ave	Intersection with Granly St	Intersection with US Hwy 2	5	671	19	-	-	-	-	1	-	18	-	-	-	-	-	-	-	-
10.03	Ward 10	10	60 th St	Intersection with Ward 15	Intersection with US Hwy 83	5	457	5	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-
10.04	Ward 10A	10A	46th Ave	Intersection with US Hwy 83	Intersection with Ward 19	5	1,793	3	-	-	-	-	2	-	1	-	-	-	-	-	-	-	-
10.05	No designation		46th Ave	Intersection with Ward 19	Intersection with Ward 12	5	170	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11.01	Ward 11	11	184th St	Intersection with US Hwy 52	Intersection with Ward 6	5	1,680	3	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-
12.01	Ward 12	12	22nd St	1 mile west of Ward 17	Intersection with Ward 17	5	260	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
12.02	Ward 12	12	4th Ave	Intersection with Ward 19	Intersection with 55th St	5	3,190	11	-	-	-	-	-	-	11	-	-	-	-	-	-	-	-
12.03	Ward 12	12	4th Ave	Intersection with 55th St	Intersection with US Hwy 2	5	1,204	5	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-
12.04	Ward 12A	12	55th St	Intersection with Ward 14	Intersection with US Hwy 2	5	881	2	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-
12.05	Ward 12A	12	55th St	Intersection with US Hwy 2	Intersection with 4th Ave	5	2,400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12.06	No designation		55th St	Intersection with 4th Ave	Intersection with 46th Ave	5	115	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
14.01	Ward 14	14	54th Ave	Intersection with 408th St	Intersection with Ward 9	5	65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14.02	Ward 14	14	54th Ave	Intersection with Ward 9	Intersection with 62nd St	5	210	14	-	-	-	1	-	3	-	11	-	-	-	-	-	-	-
14.03	Ward 14	14	37th Ave	Intersection with 54th Ave	Intersection with US Hwy 83	5	1,010	8	1	-	-	1	-	1	-	6	-	-	-	-	-	-	-
14.04	Ward 14	14	54th Ave	Intersection with US Hwy 83	1 mile east of 13th St	5	548	4	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-
14.05	Ward 14A	14	38th St	1 mile east of 13th St	Intersection with 37th Ave	5	300	2	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-
14.06	Ward 14	14	37th St	Intersection with Ward 14A	Intersection with 72nd Ave Ave	5	408	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
14.07	Ward 14	14	72nd Ave	Intersection with 37th St	Intersection with 11th Ave	5	0	2	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-
15.02	Ward 15	15	57th St	Intersection with US Hwy 83	Intersection with Ward 17	5	4,010	19	-	-	-	2	-	2	-	17	-	-	-	-	-	-	-
15.03	Ward 15	15	County Road 15 W	Intersection with Ward 17	Intersection with Ward 10	5	2,510	12	-	-	-	-	-	2	-	10	-	-	-	-	-	-	-
15.04	Ward 15	15	County Road 15 W	Intersection with Ward 10	1 mile South of 86th St	5	520	5	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-
15.05	Ward 15	15	County Road 15 W	1 mile South of 86th St	Intersection with Ward 8	5	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16.01	Ward 16	16	963rd Ave	Intersection with US Hwy 83	Intersection with US Hwy 52	5	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16.02	Ward 16	16	79th Ave	Intersection with US Hwy 52	Intersection with 97th St	5	210	2	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-
16.03	Ward 16	16	79th Ave	Intersection with 97th St	Intersection with 20th Ave	5	138	2	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-
17.01	Ward 17	17	62nd St	Intersection with Ward 14	Intersection with US Hwy 2	5	315	3	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-
17.02	Ward 17	17	54th St	Intersection with US Hwy 2	Intersection with Ward 15	5	1,575	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
19.01	Ward 19	19	27th St	Intersection with Ward 12	Intersection with Ward 8	5	1,279	14	1	1	-	-	1	-	12	-	-	-	-	-	-	-	-
20.01	Ward 20	20	205th Ave	Intersection with 380th St	Intersection with Ward 12	5	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20.02	Ward 20	20	117th Ave	Intersection with Ward 12	Intersection with 142nd St	5	43	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
20.03	Ward 20	20	117th Ave	Intersection with 142nd St	Intersection with US Hwy 83	5	302	3	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-
22.01	Ward 22	22	303rd Ave	Intersection with Ward 9	Intersection with Corona St	5	163	2	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-
22.02	Ward 22	22	303rd Ave	Intersection with Corona St	Intersection with 142nd St	5	65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22.03	Ward 22	22	303rd Ave	Intersection with 142nd St	Intersection with US Hwy 83	5	35	3	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-
23.01	Ward 23	23	21st Ave	Intersection with 373rd Ave	Intersection with state route 23	5	141	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23.02	Ward 23	23	21st Ave	Intersection with state route 23	Intersection with US Hwy 53	5	362	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
23.03	Ward 23	23	153rd St	Quarter mile north of Dakota Ave	Intersection with US Hwy 2	5	101	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
23.04	Ward 23	23	153rd St	Intersection with US Hwy 2	Intersection with 66th St	5	310	12	1	2	-	1	-	1	-	10	-	-	-	-	-	-	-
24.01	Ward 24	24	359th Ave	Intersection with state route 28	Intersection with 142nd St	5	178	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
24.02	Ward 24	24	359th Ave	Intersection with 142nd St	Intersection with US Hwy 83	5	283	4	-	1	-	-	1	-	3	-	-	-	-	-	-	-	-
500.01	No designation		254th St	Intersection with State route 23	Intersection with Ward 20	5	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
501.01	No designation		Main St	Intersection with 373rd Ave	Intersection with Ward 24	5	61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
501.02	No designation		142nd St	Intersection with Ward 24	Intersection with State route 22	5	54	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
501.03	No designation	NA	142nd St	Intersection with State route 22	Intersection with Ward 22	5	85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
502.01	No designation		135th Ave	Intersection with US Hwy 83	Intersection with US Hwy 52	5	148	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
504.01	No designation		Conty Road 19 S	Intersection with US Hwy 52	Intersection with Ward 16	5	170	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
504.02	No designation		Conty Road 19 S	Intersection with Ward 16	Intersection with US Hwy 52	5	325	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
504.03	No designation		Conty Road 19 S	Intersection with US Hwy 52	Intersection with Ward 14	5	488	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-

Detailed Corridor Information

Ward County Corridors						Light Conditions - SEVERE Only					Road Condition - SEVERE Only				Road Characteristics		
Corridor	Route	#	Local Name	Start	End	Day	Dawn/ Dusk	Dark with Streetlights	Dark	Other/ Unknown	Dry	Wet	Snow/ Slush	Other	Straight	On Curve	Other
1.01	Ward 1	1	534th St	Intersection with state route 50	Intersection with 436th Ave	-	-	-	-	-	-	-	-	-	-	-	-
2.01	Ward 2	2	436th Ave	Intersection with 72nd Ave	Intersection with 450th Ave	-	-	-	-	-	-	-	-	-	-	-	-
2.02	Ward 2	2	436th Ave	Intersection with 590th ST	Intersection with Ward 11	-	-	-	-	-	-	-	-	-	-	-	-
2.03	Ward 2	2	6th St	Intersection with Ward 1	Intersection with US Hwy 52	-	-	-	-	-	-	-	-	-	-	-	-
2.04	Ward 2	2	422nd Ave	Intersection with US Hwy 52	Intersection with Ward 3	-	-	-	-	-	-	-	-	-	-	-	-
2.05	Ward 2	2	422nd Ave	Intersection with Ward 3	Intersection with 52nd Ave	-	-	-	-	-	-	-	-	-	-	-	-
3.01	Ward 3	3	436th St	Intersection with Ward 4	Intersection with Ward 2	-	-	-	-	-	-	-	-	-	-	-	-
3.02	Ward 3	3	436th St	Intersection with Ward 2	Intersection with 90th St	-	-	-	-	-	-	-	-	-	-	-	-
4.01	Ward 4	4	366th Ave	Intersection with US Hwy 52	Intersection with 52nd Ave	-	-	-	-	-	-	-	-	-	-	-	-
5.01	Ward 5	5	394th St	Intersection with Ward 6	Intersection with 240th Ave	-	-	-	-	-	-	-	-	-	-	-	-
5.02	Ward 5	5	394th St	Intersection with 240th Ave	Intersection with US Hwy 52	-	-	-	-	-	-	-	-	-	-	-	-
5.03	Ward 5	5	Main St	Intersection with US Hwy 52	Intersection with Ward 7	-	-	-	-	-	-	-	-	-	-	-	-
6.01	Ward 6	6	184th Ave	Intersection with Ward 5	1 mile to city of carpio	-	-	-	-	-	-	-	-	-	-	-	-
6.02	Ward 6	6	184th Ave	1 mile to city of carpio	Intersection with state route 28	-	-	-	-	-	-	-	-	-	-	-	-
6.03	Ward 6	6	198th Ave	Intersection with state route 28	Intersection with Reneville 6	-	-	-	-	-	-	-	-	-	-	-	-
7.01	Ward 7	7	282nd Ave	Intersection with Ward 5	Intersection with 52nd Ave	-	-	-	-	-	-	-	-	-	-	-	-
8.01	Ward 8	8	128th Ave	Intersection with US Hwy 52	Intersection with US Hwy 83	-	-	-	-	-	-	-	-	-	-	-	-
8.02	Ward 8	8	128th Ave	Intersection with US Hwy 83	Intersection with Ward 23	-	-	-	-	-	-	-	-	-	-	-	-
9.01	Ward 9	9	338 St	Intersection with 373rd Ave	Intersection with state route 23	1	-	-	-	-	1	-	-	-	1	-	-
9.02	Ward 9	9	338 St	Intersection with state route 23	Intersection with Ward 20	-	-	-	-	-	-	-	-	-	-	-	-
9.03	Ward 9	9	310th St	Intersection with Ward 20	Intersection with Ward 14	-	-	-	1	-	-	-	1	-	-	1	-
9.04	Ward 9	9	310th St	Intersection with Ward 14	Intersection with US Hwy 2	-	-	-	-	-	-	-	-	-	-	-	-
10.01	Ward 10	10	184th St	Intersection with Ward 9	Intersection with Granly St	-	-	-	-	-	-	-	-	-	-	-	-
10.02	Ward 10	10	19th Ave	Intersection with Granly St	Intersection with US Hwy 2	-	-	-	-	-	-	-	-	-	-	-	-
10.03	Ward 10	10	60 th St	Intersection with Ward 15	Intersection with US Hwy 83	-	-	-	-	-	-	-	-	-	-	-	-
10.04	Ward 10A	10A	46th Ave	Intersection with US Hwy 83	Intersection with Ward 19	-	-	-	-	-	-	-	-	-	-	-	-
10.05	No designation		46th Ave	Intersection with Ward 19	Intersection with Ward 12	-	-	-	-	-	-	-	-	-	-	-	-
11.01	Ward 11	11	184th St	Intersection with US Hwy 52	Intersection with Ward 6	-	-	-	-	-	-	-	-	-	-	-	-
12.01	Ward 12	12	22nd St	1 mile west of Ward 17	Intersection with Ward 17	-	-	-	-	-	-	-	-	-	-	-	-
12.02	Ward 12	12	4th Ave	Intersection with Ward 19	Intersection with 55th St	-	-	-	-	-	-	-	-	-	-	-	-
12.03	Ward 12	12	4th Ave	Intersection with 55th St	Intersection with US Hwy 2	-	-	-	-	-	-	-	-	-	-	-	-
12.04	Ward 12A	12	55th St	Intersection with Ward 14	Intersection with US Hwy 2	-	-	-	-	-	-	-	-	-	-	-	-
12.05	Ward 12A	12	55th St	Intersection with US Hwy 2	Intersection with 4th Ave	-	-	-	-	-	-	-	-	-	-	-	-
12.06	No designation		55th St	Intersection with 4th Ave	Intersection with 46th Ave	-	-	-	-	-	-	-	-	-	-	-	-
14.01	Ward 14	14	54th Ave	Intersection with 408th St	Intersection with Ward 9	-	-	-	-	-	-	-	-	-	-	-	-
14.02	Ward 14	14	54th Ave	Intersection with Ward 9	Intersection with 62nd St	-	-	-	-	-	-	-	-	-	-	-	-
14.03	Ward 14	14	37th Ave	Intersection with 54th Ave	Intersection with US Hwy 83	1	-	-	-	-	1	-	-	-	1	-	-
14.04	Ward 14	14	54th Ave	Intersection with US Hwy 83	1 mile east of 13th St	-	-	-	-	-	-	-	-	-	-	-	-
14.05	Ward 14A	14	38th St	1 mile east of 13th St	Intersection with 37th Ave	-	-	-	-	-	-	-	-	-	-	-	-
14.06	Ward 14	14	37th St	Intersection with Ward 14A	Intersection with 72nd Ave Ave	-	-	-	-	-	-	-	-	-	-	-	-
14.07	Ward 14	14	72nd Ave	Intersection with 37th St	Intersection with 11th Ave	-	-	-	-	-	-	-	-	-	-	-	-
15.02	Ward 15	15	57th St	Intersection with US Hwy 83	Intersection with Ward 17	-	-	-	-	-	-	-	-	-	-	-	-
15.03	Ward 15	15	County Road 15 W	Intersection with Ward 17	Intersection with Ward 10	-	-	-	-	-	-	-	-	-	-	-	-
15.04	Ward 15	15	County Road 15 W	Intersection with Ward 10	1 mile South of 86th St	-	-	-	-	-	-	-	-	-	-	-	-
15.05	Ward 15	15	County Road 15 W	1 mile South of 86th St	Intersection with Ward 8	-	-	-	-	-	-	-	-	-	-	-	-
16.01	Ward 16	16	963rd Ave	Intersection with US Hwy 83	Intersection with US Hwy 52	-	-	-	-	-	-	-	-	-	-	-	-
16.02	Ward 16	16	79th Ave	Intersection with US Hwy 52	Intersection with 97th St	-	-	-	-	-	-	-	-	-	-	-	-
16.03	Ward 16	16	79th Ave	Intersection with 97th St	Intersection with 20th Ave	-	-	-	-	-	-	-	-	-	-	-	-
17.01	Ward 17	17	62nd St	Intersection with Ward 14	Intersection with US Hwy 2	-	-	-	-	-	-	-	-	-	-	-	-
17.02	Ward 17	17	54th St	Intersection with US Hwy 2	Intersection with Ward 15	-	-	-	-	-	-	-	-	-	-	-	-
19.01	Ward 19	19	27th St	Intersection with Ward 12	Intersection with Ward 8	-	-	1	-	-	1	-	-	-	1	-	-
20.01	Ward 20	20	205th Ave	Intersection with 380th St	Intersection with Ward 12	-	-	-	-	-	-	-	-	-	-	-	-
20.02	Ward 20	20	117th Ave	Intersection with Ward 12	Intersection with 142nd St	-	-	-	-	-	-	-	-	-	-	-	-
20.03	Ward 20	20	117th Ave	Intersection with 142nd St	Intersection with US Hwy 83	-	-	-	-	-	-	-	-	-	-	-	-
22.01	Ward 22	22	303rd Ave	Intersection with Ward 9	Intersection with Corona St	-	-	-	-	-	-	-	-	-	-	-	-
22.02	Ward 22	22	303rd Ave	Intersection with Corona St	Intersection with 142nd St	-	-	-	-	-	-	-	-	-	-	-	-
22.03	Ward 22	22	303rd Ave	Intersection with 142nd St	Intersection with US Hwy 83	-	-	-	-	-	-	-	-	-	-	-	-
23.01	Ward 23	23	21st Ave	Intersection with 373rd Ave	Intersection with state route 23	-	-	-	-	-	-	-	-	-	-	-	-
23.02	Ward 23	23	21st Ave	Intersection with state route 23	Intersection with US Hwy 53	-	-	-	-	-	-	-	-	-	-	-	-
23.03	Ward 23	23	153rd St	Quarter mile north of Dakota Ave	Intersection with US Hwy 2	-	-	-	-	-	-	-	-	-	-	-	-
23.04	Ward 23	23	153rd St	Intersection with US Hwy 2	Intersection with 66th St	1	-	-	-	-	1	-	-	-	1	-	-
24.01	Ward 24	24	359th Ave	Intersection with state route 28	Intersection with 142nd St	-	-	-	-	-	-	-	-	-	-	-	-
24.02	Ward 24	24	359th Ave	Intersection with 142nd St	Intersection with US Hwy 83	-	-	-	-	-	-	-	-	-	-	-	-
500.01	No designation		254th St	Intersection with State route 23	Intersection with Ward 20	-	-	-	-	-	-	-	-	-	-	-	-
501.01	No designation		Main St	Intersection with 373rd Ave	Intersection with Ward 24	-	-	-	-	-	-	-	-	-	-	-	-
501.02	No designation		142nd St	Intersection with Ward 24	Intersection with State route 22	-	-	-	-	-	-	-	-	-	-	-	-
501.03	No designation	NA	142nd St	Intersection with State route 22	Intersection with Ward 22	-	-	-	-	-	-	-	-	-	-	-	-
502.01	No designation		135th Ave	Intersection with US Hwy 83	Intersection with US Hwy 52	-	-	-	-	-	-	-	-	-	-	-	-
504.01	No designation		Conty Road 19 S	Intersection with US Hwy 52	Intersection with Ward 16	-	-	-	-	-	-	-	-	-	-	-	-
504.02	No designation		Conty Road 19 S	Intersection with Ward 16	Intersection with US Hwy 52	-	-	-	-	-	-	-	-	-	-	-	-
504.03	No designation		Conty Road 19 S	Intersection with US Hwy 52	Intersection with Ward 14	-	-	-	-	-	-	-	-	-	-	-	-

**Ward County  
Rural Segment Listing**

\*High Priority Segments Project Sheet Page Number

Project Sheet Page*	Corridor	Route #	Start	End	Length (miles)	Lane Departure Crashes	ADT	Lane Departure Density	Access Density	Curves w/ Critical Radius / Mile	Edge Risk Assessment
2	1.01	Ward 1 1	State Route 50	436th Ave	8.8	2	309	0.05	8.1	0.45	1
	2.01	Ward 2 2	72nd Ave	450th Ave	2.0	0	145	0.00	7.1	1.01	1
12	2.02	Ward 2 2	590th ST	Ward 1	5.8	1	395	0.03	5.9	1.21	1
	2.04	Ward 2 2	US Hwy 52	Ward 3	4.5	0	430	0.00	8.7	0.22	1
	2.05	Ward 2 2	Ward 3	52nd Ave	5.0	0	230	0.00	6.2	0.00	1
	5.02	Ward 5 5	240th Ave	US Hwy 52	2.0	0	115	0.00	3.6	1.54	2
5	5.03	Ward 5 5	US Hwy 52	Ward 7	1.8	0	80	0.00	11.4	3.42	2
	6.02	Ward 6 6	1 mile to city of carpio	State Route 28	1.8	0	60	0.00	5.1	3.40	1
4	8.01	Ward 8 8	US Hwy 52	US Hwy 83	12.9	0	174	0.00	5.3	0.39	2
	8.02	Ward 8 8	US Hwy 83	Ward 23	10.9	2	617	0.04	5.0	0.00	1
	9.01	Ward 9 9	373rd Ave	State Route 23	8.0	0	288	0.00	6.2	0.00	1
	15	9.03	Ward 9 9	State Route 23	Ward 14	15.5	3	328	0.04	4.6	0.45
9.04		Ward 9 9	Ward 14	US Hwy 2	10.0	1	121	0.02	7.1	0.00	1
	10.01	Ward 10 10	Ward 9	Granly St	10.7	1	263	0.02	5.2	1.02	1
	9	10.02	Ward 10 10	Granly St	US Hwy 2	7.6	7	671	0.18	9.9	1.32
10.03		Ward 10 10	Ward 15	US Hwy 83	4.8	2	457	0.08	6.0	0.42	1
	10.04	Ward 10A 10A	US Hwy 83	Ward 19	2.0	1	1,793	0.10	11.1	0.00	1
	11.01	Ward 11 11	US Hwy 52	Ward 6	4.9	0	1,680	0.00	5.3	0.20	1
	12.02	Ward 12 12	Ward 19	55th St	2.0	1	3,190	0.10	8.0	0.00	1
	8	12.03	Ward 12 12	55th St	US Hwy 2	4.1	3	1,204	0.15	14.2	0.49
14	14.02	Ward 14 14	Ward 9	62nd St	17.8	6	210	0.07	4.3	0.06	1
10	14.04	Ward 14 14	US Hwy 83	1 mile east of 13th St	2.1	1	548	0.09	16.4	2.35	1
6	15.02	Ward 15 15	US Hwy 83	Ward 17	2.2	8	4,010	0.72	10.8	0.45	1
1	15.03	Ward 15 15	Ward 17	Ward 10	2.8	2	2,510	0.14	12.0	1.45	2
11	15.04	Ward 15 15	Ward 10	1 mile South of 86th St	2.2	2	520	0.19	15.3	3.25	1
7	17.02	Ward 17 17	US Hwy 2	Ward 15	1.3	1	1,575	0.16	14.0	4.67	1
	19.01	Ward 19 19	Ward 12	Ward 8	9.1	8	1,279	0.18	5.5	0.00	1
	20.03	Ward 20 20	142nd St	US Hwy 83	10.0	1	302	0.02	4.5	0.30	1
	22.01	Ward 22 22	Ward 9	Corona St	6.4	1	163	0.03	7.5	0.00	1
	23.01	Ward 23 23	373rd Ave	State Route 23	9.3	0	141	0.00	4.9	0.65	1
	23.02	Ward 23 23	State Route 23	US Hwy 53	7.7	1	362	0.03	4.0	0.65	1
13	23.04	Ward 23 23	US Hwy 2	66th St	9.1	4	310	0.09	6.9	0.22	1
	24.01	Ward 24 24	State Route 28	142nd St	8.3	1	178	0.02	5.7	0.24	1
3	24.02	Ward 24 24	142nd St	US Hwy 83	9.7	1	283	0.02	6.3	0.21	2
	501.03	No designation NA	State Route 22	Ward 22	5.1	0	85	0.00	4.1	0.40	2

228.2 61

Edge Risk Legend

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

Critical ADT Range - Lane Departure	
Min	150
Max	400

	Access	Lane Departure	Critical Radius Curves
	Total	3758	61
Total Mileage	228.2	228.2	228.2
Years		5	
<b>Average Density (Total/Mile)</b>	<b>16.5</b>	<b>0.05</b>	<b>0.30</b>

**Ward 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	15.03	Ward 15	15	Ward 17	Ward 10	2.8	2,510		*	*	*	*	*****	2	2,510
2	1.01	Ward 1	1	State Route 50	436th Ave	8.8	309	*	*	*	*	*	*****	1	309
3	24.02	Ward 24	24	142nd St	US Hwy 83	9.7	283	*			*	*	***	2	283
4	8.01	Ward 8	8	US Hwy 52	US Hwy 83	12.9	174	*			*	*	***	2	174
5	5.03	Ward 5	5	US Hwy 52	Ward 7	1.8	80			*	*	*	***	2	80
6	15.02	Ward 15	15	US Hwy 83	Ward 17	2.2	4,010		*	*	*	*	***	1	4,010
7	17.02	Ward 17	17	US Hwy 2	Ward 15	1.3	1,575		*	*	*	*	***	1	1,575
8	12.03	Ward 12	12	55th St	US Hwy 2	4.1	1,204		*	*	*	*	***	1	1,204
9	10.02	Ward 10	10	Granly St	US Hwy 2	7.6	671		*	*	*	*	***	1	671
10	14.04	Ward 14	14	US Hwy 83	1 mile east of 13th St	2.1	548		*	*	*	*	***	1	548
11	15.04	Ward 15	15	Ward 10	1 mile South of 86th St	2.2	520		*	*	*	*	***	1	520
12	2.02	Ward 2	2	590th ST	Ward 1	5.8	395	*	*		*	*	***	1	395
13	9.03	Ward 9	9	State Route 23	Ward 14	15.5	328	*	*		*	*	***	1	328
14	23.04	Ward 23	23	US Hwy 2	66th St	9.1	310	*	*		*	*	***	1	310
15	14.02	Ward 14	14	Ward 9	62nd St	17.8	210	*	*		*	*	***	1	210
16	5.02	Ward 5	5	240th Ave	US Hwy 52	2.0	115				*	*	**	2	115
17	501.03	No designation	NA	State Route 22	Ward 22	5.1	85				*	*	**	2	85
18	10.04	Ward 10A	10A	US Hwy 83	Ward 19	2.0	1,793		*	*		*	**	1	1,793
19	10.03	Ward 10	10	Ward 15	US Hwy 83	4.8	457		*		*	*	**	1	457
20	2.04	Ward 2	2	US Hwy 52	Ward 3	4.5	430			*	*	*	**	1	430
21	23.02	Ward 23	23	State Route 23	US Hwy 53	7.7	362	*			*	*	**	1	362
22	20.03	Ward 20	20	142nd St	US Hwy 83	10.0	302	*			*	*	**	1	302
23	10.01	Ward 10	10	Ward 9	Granly St	10.7	263	*			*	*	**	1	263
24	24.01	Ward 24	24	State Route 28	142nd St	8.3	178	*			*	*	**	1	178
25	12.02	Ward 12	12	Ward 19	55th St	2.0	3,190		*			*	*	1	3,190
26	11.01	Ward 11	11	US Hwy 52	Ward 6	4.9	1,680				*	*	*	1	1,680
27	19.01	Ward 19	19	Ward 12	Ward 8	9.1	1,279		*			*	*	1	1,279
28	8.02	Ward 8	8	US Hwy 83	Ward 23	10.9	617		*			*	*	1	617
29	9.01	Ward 9	9	373rd Ave	State Route 23	8.0	288	*				*	*	1	288
30	2.05	Ward 2	2	Ward 3	52nd Ave	5.0	230	*				*	*	1	230
31	22.01	Ward 22	22	Ward 9	Corona St	6.4	163	*				*	*	1	163
32	2.01	Ward 2	2	72nd Ave	450th Ave	2.0	145				*	*	*	1	145
33	23.01	Ward 23	23	373rd Ave	State Route 23	9.3	141				*	*	*	1	141
34	6.02	Ward 6	6	1 mile to city of carpio	State Route 28	1.8	60				*	*	*	1	60
35	9.04	Ward 9	9	Ward 14	US Hwy 2	10.0	121					*	*	1	121

Total Stars -- 14  
% That Gets Star -- 40%

17 31%  
27 77%  
6 17%

#	%	Mileage	%
*****	0	0.0	0%
****	2	11.6	5%
***	13	92.1	40%
**	9	55.1	24%
*	10	59.4	26%
	1	10.0	4%
	35	228.2	100%

**Stars**

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

Lane Departure Density - If segment has higher lane departure density than the county average (0.05).

Access Density - If segment has access density than the county average (16.5).

Curve Critical Radius Density - If segment has higher density of curves with critical radius than the county average (0.3).

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)

## Ward 15 (County Road 15 W) from Ward 17 to Ward 10

**Agency Name:** Ward County

**ND DOT District:** 4

**Contact Name:** Dana Larsen

**Telephone Number:** 701-838-2810

**Email Address:** dana.larsen@wardnd.com

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

### Location Description

Start: Ward 17  
End: Ward 10  
Facility Type: 2-Lane  
ADT: 2510  
Road Type: Rural Paved  
County Road: Ward 15  
Local Name: County Road 15 W

Lane Width: 12'  
Speed Limit: High  
Shoulder Width: 6'  
Shoulder Type: Paved  
Length (miles): 2.8  
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

	Total	Road Dept	K+A
Crashes	12	2	1
Density (per mile per year)	0.86	0.14	0.07
Rate (per MVM)	0.94	0.16	0.08

	Value	Critical	Road
ADT Range	2,510	150≤ADT≤400	
RD Density	0.145	0.032	★
Access Density	12.0	8.0	★
Curve Critical Radius Density	1.449	0.035	★
Edge Risk	2	2 or 3	★

★★★★



### Describe Proposed Safety Improvements

Description	Type	Cost per mi	Mileage	Cost	Notes -
4" Edge Lines	Proactive	\$400	0.0	\$0	
6" Edge Lines	Proactive	\$650	0.0	\$0	
Shoulder Rumble Strip	Proactive	\$3,000	0.0	\$0	
Edge Line Rumble Strip	Proactive	\$3,500	2.8	\$9,800	
Ground In Wet-Reflective Markings	Proactive	\$8,500	0.0	\$0	
Center Line Rumble Strip	Proactive	\$3,000	2.8	\$8,400	
6" Center Line	Proactive	\$650	0.0	\$0	

### Project Cost Estimate (attach detailed copy)

Federal Funds	\$16,380
Local Match (10% of Total project cost)	\$1,820
<b>Total Project Cost</b>	<b>\$18,200</b>

### Proposed Year of Construction

### NDDOT Central Office Only

Project Accepted?  Yes  No Reference Number ID Number

Notes

Page: 1  
Segment ID: 15.03  
Date: 8/13/2013

# HIGHWAY SAFETY IMPROVEMENT PROGRAM (HSIP) PROJECT APPLICATION

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

## Ward 1 (534th St) from State Route 50 to 436th Ave

Agency Name: Ward County

ND DOT District: 4

Contact Name: Dana Larsen

Telephone Number: 701-838-2810

Email Address: dana.larsen@wardnd.com

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

### Location Description

Start: State Route 50	Lane Width: 12'
End: 436th Ave	Speed Limit: High
Facility Type: 2-Lane	Shoulder Width: 0'
ADT: 309	Shoulder Type: None
Road Type: Rural Paved	Length (miles): 8.8
County Road: Ward 1	Rumble Installed: No
Local Name: 534th St	

### 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

	Total	Road Dept	K+A
Crashes	4	2	0
Density (per mile per year)	0.09	0.05	0.00
Rate (per MVM)	0.81	0.40	0.00

	Value	Critical	Road
ADT Range	309	150≤ADT≤400	★
RD Density	0.045	0.032	★
Access Density	8.1	8.0	★
Curve Critical Radius Density	0.453	0.035	★
Edge Risk	1	2 or 3	

★★★★



### Describe Proposed Safety Improvements

Description	Type	Cost per mi	Mileage	Cost	Notes -
4" Edge Lines	Proactive	\$400	0.0	\$0	
6" Edge Lines	Proactive	\$650	0.0	\$0	
Shoulder Rumble Strip	Proactive	\$3,000	0.0	\$0	
Edge Line Rumble Strip	Proactive	\$3,500	8.8	\$30,800	
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	\$27,720
Local Match (10% of Total project cost)	\$3,080
<b>Total Project Cost</b>	<b>\$30,800</b>

### 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)

## Ward 24 (359th Ave) from 142nd St to US Hwy 83

**Agency Name:** Ward County

**ND DOT District:** 4

**Contact Name:** Dana Larsen

**Telephone Number:** 701-838-2810

**Email Address:** dana.larsen@wardnd.com

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

### Location Description

Start: 142nd St  
End: US Hwy 83  
Facility Type: 2-Lane  
ADT: 283  
Road Type: Rural Paved  
County Road: Ward 24  
Local Name: 359th Ave

Lane Width: 12'  
Speed Limit: High  
Shoulder Width: 2'  
Shoulder Type: Paved  
Length (miles): 9.7  
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

	Total	Road Dept	K+A
Crashes	4	1	0
Density (per mile per year)	0.08	0.02	0.00
Rate (per MVM)	0.80	0.20	0.00

	Value	Critical	Road
ADT Range	283	150≤ADT≤400	★
RD Density	0.021	0.032	
Access Density	6.3	8.0	
Curve Critical Radius Density	0.206	0.035	★
Edge Risk	2	2 or 3	★
			★★★



### Describe Proposed Safety Improvements

Description	Type	Cost per mi	Mileage	Cost	Notes -
4" Edge Lines	Proactive	\$400	0.0	\$0	
6" Edge Lines	Proactive	\$650	0.0	\$0	
Shoulder Rumble Strip	Proactive	\$3,000	0.0	\$0	
Edge Line Rumble Strip	Proactive	\$3,500	9.7	\$33,950	
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	\$30,555
Local Match (10% of Total project cost)	\$3,395
<b>Total Project Cost</b>	<b>\$33,950</b>

### 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)

## Ward 8 (128th Ave) from US Hwy 52 to US Hwy 83

Agency Name: Ward County

ND DOT District: 4

Contact Name: Dana Larsen

Telephone Number: 701-838-2810

Email Address: dana.larsen@wardnd.com

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

### Location Description

Start: US Hwy 52  
End: US Hwy 83  
Facility Type: 2-Lane  
ADT: 174  
Road Type: Rural Paved  
County Road: Ward 8  
Local Name: 128th Ave

Lane Width: 12'  
Speed Limit: High  
Shoulder Width: 2'  
Shoulder Type: Paved  
Length (miles): 12.9  
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

	Total	Road Dept	K+A
Crashes	4	0	0
Density (per mile per year)	0.06	0.00	0.00
Rate (per MVM)	0.98	0.00	0.00

	Value	Critical	Road
ADT Range	174	150≤ADT≤400	★
RD Density	0.000	0.032	
Access Density	5.3	8.0	
Curve Critical Radius Density	0.388	0.035	★
Edge Risk	2	2 or 3	★
			★★★



### Describe Proposed Safety Improvements

Description	Type	Cost per mi	Mileage	Cost	Notes -
4" Edge Lines	Proactive	\$400	0.0	\$0	
6" Edge Lines	Proactive	\$650	0.0	\$0	
Shoulder Rumble Strip	Proactive	\$3,000	12.9	\$38,700	
Edge Line 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	\$34,830
Local Match (10% of Total project cost)	\$3,870
<b>Total Project Cost</b>	<b>\$38,700</b>

### NDDOT Central Office Only

Project Accepted?  Yes  No Reference Number ID Number

Notes

Page: 4  
Segment ID: 8.01  
Date: 8/13/2013

# HIGHWAY SAFETY IMPROVEMENT PROGRAM (HSIP) PROJECT APPLICATION

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

## Ward 5 (Main St) from US Hwy 52 to Ward 7

**Agency Name:** Ward County

**ND DOT District:** 4

**Contact Name:** Dana Larsen

**Telephone Number:** 701-838-2810

**Email Address:** dana.larsen@wardnd.com

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

### Location Description

Start: US Hwy 52  
End: Ward 7  
Facility Type: 2-Lane  
ADT: 80  
Road Type: Rural Paved  
County Road: Ward 5  
Local Name: Main St

Lane Width: 12'  
Speed Limit: High  
Shoulder Width: 2'  
Shoulder Type: Paved  
Length (miles): 1.8  
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

	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	80	150≤ADT≤400	
RD Density	0.000	0.032	
Access Density	11.4	8.0	★
Curve Critical Radius Density	3.418	0.035	★
Edge Risk	2	2 or 3	★
			★★★



### Describe Proposed Safety Improvements

Description	Type	Cost per mi	Mileage	Cost	Notes -
4" Edge Lines	Proactive	\$400	0.0	\$0	
6" Edge Lines	Proactive	\$650	1.8	\$1,170	
Shoulder Rumble Strip	Proactive	\$3,000	0.0	\$0	
Edge Line 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	\$1,053
Local Match (10% of Total project cost)	\$117
<b>Total Project Cost</b>	<b>\$1,170</b>

### NDDOT Central Office Only

Project Accepted?  Yes  No Reference Number ID Number

Notes

Page: 5  
Segment ID: 5.03  
Date: 8/13/2013

# HIGHWAY SAFETY IMPROVEMENT PROGRAM (HSIP) PROJECT APPLICATION

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

## Ward 15 (57th St) from US Hwy 83 to Ward 17

**Agency Name:** Ward County

**ND DOT District:** 4

**Contact Name:** Dana Larsen

**Telephone Number:** 701-838-2810

**Email Address:** dana.larsen@wardnd.com

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

### Location Description

Start: US Hwy 83	Lane Width: 12'
End: Ward 17	Speed Limit: High
Facility Type: 2-Lane	Shoulder Width: 4'
ADT: 4010	Shoulder Type: Composite
Road Type: Rural Paved	Length (miles): 2.2
County Road: Ward 15	Rumble Installed: No
Local Name: 57th St	

### 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

	Total	Road Dept	K+A
Crashes	19	8	0
Density (per mile per year)	1.73	0.73	0.00
Rate (per MVM)	1.18	0.50	0.00

	Value	Critical	Road
ADT Range	4,010	150≤ADT≤400	
RD Density	0.719	0.032	★
Access Density	10.8	8.0	★
Curve Critical Radius Density	0.449	0.035	★
Edge Risk	1	2 or 3	

★★★



### Describe Proposed Safety Improvements

Description	Type	Cost per mi	Mileage	Cost	Notes -
4" Edge Lines	Proactive	\$400	0.0	\$0	
6" Edge Lines	Proactive	\$650	0.0	\$0	
Shoulder Rumble Strip	Proactive	\$3,000	0.0	\$0	
Edge Line Rumble Strip	Proactive	\$3,500	2.2	\$7,700	
Ground In Wet-Reflective Markings	Proactive	\$8,500	0.0	\$0	
Center Line Rumble Strip	Proactive	\$3,000	2.2	\$6,600	
6" Center Line	Proactive	\$650	0.0	\$0	

### Project Cost Estimate (attach detailed copy)

### Proposed Year of Construction

Federal Funds	\$12,870
Local Match (10% of Total project cost)	\$1,430
<b>Total Project Cost</b>	<b>\$14,300</b>

### 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)

## Ward 17 (54th St) from US Hwy 2 to Ward 15

**Agency Name:** Ward County

**ND DOT District:** 4

**Contact Name:** Dana Larsen

**Telephone Number:** 701-838-2810

**Email Address:** dana.larsen@wardnd.com

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

### Location Description

Start: US Hwy 2  
End: Ward 15  
Facility Type: 2-Lane  
ADT: 1575  
Road Type: Rural Paved  
County Road: Ward 17  
Local Name: 54th St

Lane Width: 12'  
Speed Limit: High  
Shoulder Width: 4'  
Shoulder Type: Paved  
Length (miles): 1.3  
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

	Total	Road Dept	K+A
Crashes	1	1	0
Density (per mile per year)	0.15	0.15	0.00
Rate (per MVM)	0.27	0.27	0.00

	Value	Critical	Road
ADT Range	1,575	150≤ADT≤400	
RD Density	0.156	0.032	★
Access Density	14.0	8.0	★
Curve Critical Radius Density	4.674	0.035	★
Edge Risk	1	2 or 3	

★★★



### Describe Proposed Safety Improvements

Description	Type	Cost per mi	Mileage	Cost	Notes -
4" Edge Lines	Proactive	\$400	0.0	\$0	
6" Edge Lines	Proactive	\$650	0.0	\$0	
Shoulder Rumble Strip	Proactive	\$3,000	0.0	\$0	
Edge Line Rumble Strip	Proactive	\$3,500	1.3	\$4,550	
Ground In Wet-Reflective Markings	Proactive	\$8,500	0.0	\$0	
Center Line Rumble Strip	Proactive	\$3,000	1.3	\$3,900	
6" Center Line	Proactive	\$650	0.0	\$0	

### Project Cost Estimate (attach detailed copy)

### Proposed Year of Construction

Federal Funds	\$7,605
Local Match (10% of Total project cost)	\$845
<b>Total Project Cost</b>	<b>\$8,450</b>

### NDDOT Central Office Only

Project Accepted?  Yes  No Reference Number ID Number

Notes

Page: 7  
Segment ID: 17.02  
Date: 8/13/2013

# HIGHWAY SAFETY IMPROVEMENT PROGRAM (HSIP) PROJECT APPLICATION

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

## Ward 12 (4th Ave) from 55th St to US Hwy 2

**Agency Name:** Ward County

**ND DOT District:** 4

**Contact Name:** Dana Larsen

**Telephone Number:** 701-838-2810

**Email Address:** dana.larsen@wardnd.com

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

### Location Description

Start: 55th St  
End: US Hwy 2  
Facility Type: 2-Lane  
ADT: 1204  
Road Type: Rural Paved  
County Road: Ward 12  
Local Name: 4th Ave

Lane Width: 12'  
Speed Limit: High  
Shoulder Width: 2'  
Shoulder Type: Paved  
Length (miles): 4.1  
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

	Total	Road Dept	K+A
Crashes	5	2	0
Density (per mile per year)	0.24	0.10	0.00
Rate (per MVM)	0.56	0.22	0.00

	Value	Critical	Road
ADT Range	1,204	150≤ADT≤400	
RD Density	0.147	0.032	★
Access Density	14.2	8.0	★
Curve Critical Radius Density	0.489	0.035	★
Edge Risk	1	2 or 3	

★★★



### Describe Proposed Safety Improvements

Description	Type	Cost per mi	Mileage	Cost	Notes -
4" Edge Lines	Proactive	\$400	0.0	\$0	
6" Edge Lines	Proactive	\$650	0.0	\$0	
Shoulder Rumble Strip	Proactive	\$3,000	4.1	\$12,300	
Edge Line 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	4.1	\$12,300	
6" Center Line	Proactive	\$650	0.0	\$0	

### Project Cost Estimate (attach detailed copy)

### Proposed Year of Construction

Federal Funds	\$22,140
Local Match (10% of Total project cost)	\$2,460
<b>Total Project Cost</b>	<b>\$24,600</b>

### NDDOT Central Office Only

Project Accepted?  Yes  No Reference Number ID Number

Notes

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Segment ID: 12.03  
Date: 8/13/2013

# HIGHWAY SAFETY IMPROVEMENT PROGRAM (HSIP) PROJECT APPLICATION

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

## Ward 10 (19th Ave) from Granly St to US Hwy 2

**Agency Name:** Ward County

**ND DOT District:** 4

**Contact Name:** Dana Larsen

**Telephone Number:** 701-838-2810

**Email Address:** dana.larsen@wardnd.com

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

### Location Description

Start: Granly St  
End: US Hwy 2  
Facility Type: 2-Lane  
ADT: 671  
Road Type: Rural Paved  
County Road: Ward 10  
Local Name: 19th Ave

Lane Width: 12'  
Speed Limit: High  
Shoulder Width: 2'  
Shoulder Type: Paved  
Length (miles): 7.6  
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

	Total	Road Dept	K+A
Crashes	19	6	0
Density (per mile per year)	0.50	0.16	0.00
Rate (per MVM)	2.04	0.64	0.00

	Value	Critical	Road
ADT Range	671	150≤ADT≤400	
RD Density	0.184	0.032	★
Access Density	9.9	8.0	★
Curve Critical Radius Density	1.316	0.035	★
Edge Risk	1	2 or 3	

★★★



### Describe Proposed Safety Improvements

Description	Type	Cost per mi	Mileage	Cost	Notes -
4" Edge Lines	Proactive	\$400	0.0	\$0	
6" Edge Lines	Proactive	\$650	0.0	\$0	
Shoulder Rumble Strip	Proactive	\$3,000	7.6	\$22,800	
Edge Line 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	\$20,520
Local Match (10% of Total project cost)	\$2,280
<b>Total Project Cost</b>	<b>\$22,800</b>

### NDDOT Central Office Only

Project Accepted?  Yes  No Reference Number ID Number

Notes

Page: 9  
Segment ID: 10.02  
Date: 8/13/2013

# HIGHWAY SAFETY IMPROVEMENT PROGRAM (HSIP) PROJECT APPLICATION

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

## Ward 14 (54th Ave) from US Hwy 83 to 1 mile east of 13th St

Agency Name: Ward County

ND DOT District: 4

Contact Name: Dana Larsen

Telephone Number: 701-838-2810

Email Address: dana.larsen@wardnd.com

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

### Location Description

Start: US Hwy 83	Lane Width: 12'
End: 1 mile east of 13th St	Speed Limit: High
Facility Type: 2-Lane	Shoulder Width: 2'
ADT: 548	Shoulder Type: Composite
Road Type: Rural Paved	Length (miles): 2.1
County Road: Ward 14	Rumble Installed: No
Local Name: 54th Ave	

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

	Total	Road Dept	K+A
Crashes	4	1	0
Density (per mile per year)	0.38	0.10	0.00
Rate (per MVM)	1.91	0.48	0.00

	Value	Critical	Road
ADT Range	548	150≤ADT≤400	
RD Density	0.094	0.032	★
Access Density	16.4	8.0	★
Curve Critical Radius Density	2.347	0.035	★
Edge Risk	1	2 or 3	

★★★



### Describe Proposed Safety Improvements

Description	Type	Cost per mi	Mileage	Cost	Notes -
4" Edge Lines	Proactive	\$400	0.0	\$0	
6" Edge Lines	Proactive	\$650	0.0	\$0	
Shoulder Rumble Strip	Proactive	\$3,000	0.0	\$0	
Edge Line Rumble Strip	Proactive	\$3,500	2.1	\$7,350	
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	\$6,615
Local Match (10% of Total project cost)	\$735
<b>Total Project Cost</b>	<b>\$7,350</b>

### 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)

## Ward 15 (County Road 15 W) from Ward 10 to 1 mile South of 86th St

Agency Name: Ward County

ND DOT District: 4

Contact Name: Dana Larsen

Telephone Number: 701-838-2810

Email Address: dana.larsen@wardnd.com

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

### Location Description

Start: Ward 10  
End: 1 mile South of 86th St  
Facility Type: 2-Lane  
ADT: 520  
Road Type: Rural Paved  
County Road: Ward 15  
Local Name: County Road 15 W

Lane Width: 12'  
Speed Limit: High  
Shoulder Width: 2'  
Shoulder Type: Paved  
Length (miles): 2.2  
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

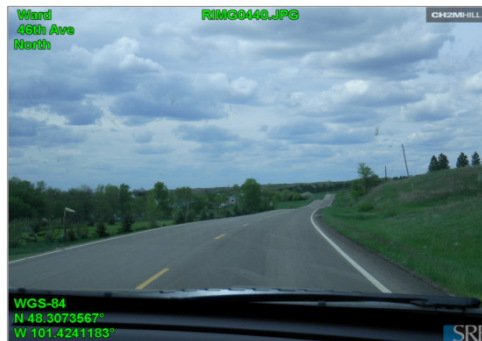
### Describe Current Safety Issues & Systemic Ranking Review

North Dakota Crashes, 2008 - 2012

	Total	Road Dept	K+A
Crashes	5	2	0
Density (per mile per year)	0.45	0.18	0.00
Rate (per MVM)	2.39	0.96	0.00

	Value	Critical	Road
ADT Range	520	150≤ADT≤400	
RD Density	0.186	0.032	★
Access Density	15.3	8.0	★
Curve Critical Radius Density	3.249	0.035	★
Edge Risk	1	2 or 3	

★★★



### Describe Proposed Safety Improvements

Description	Type	Cost per mi	Mileage	Cost	Notes -
4" Edge Lines	Proactive	\$400	0.0	\$0	
6" Edge Lines	Proactive	\$650	0.0	\$0	
Shoulder Rumble Strip	Proactive	\$3,000	0.0	\$0	
Edge Line Rumble Strip	Proactive	\$3,500	2.2	\$7,700	
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	\$6,930
Local Match (10% of Total project cost)	\$770
<b>Total Project Cost</b>	<b>\$7,700</b>

### NDDOT Central Office Only

Project Accepted?  Yes  No Reference Number ID Number

Notes

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Segment ID: 15.04  
Date: 8/13/2013

# HIGHWAY SAFETY IMPROVEMENT PROGRAM (HSIP) PROJECT APPLICATION

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

## Ward 2 (436th Ave) from 590th ST to Ward 1

**Agency Name:** Ward County

**ND DOT District:** 4

**Contact Name:** Dana Larsen

**Telephone Number:** 701-838-2810

**Email Address:** dana.larsen@wardnd.com

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

### Location Description

Start: 590th ST  
End: Ward 1  
Facility Type: 2-Lane  
ADT: 395  
Road Type: Rural Paved  
County Road: Ward 2  
Local Name: 436th Ave

Lane Width: 12'  
Speed Limit: High  
Shoulder Width: 2'  
Shoulder Type: Paved  
Length (miles): 5.8  
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

	Total	Road Dept	K+A
Crashes	2	1	0
Density (per mile per year)	0.07	0.03	0.00
Rate (per MVM)	0.48	0.24	0.00

	Value	Critical	Road
ADT Range	395	150≤ADT≤400	★
RD Density	0.035	0.032	★
Access Density	5.9	8.0	
Curve Critical Radius Density	1.208	0.035	★
Edge Risk	1	2 or 3	

★★★



### Describe Proposed Safety Improvements

Description	Type	Cost per mi	Mileage	Cost	Notes -
4" Edge Lines	Proactive	\$400	0.0	\$0	
6" Edge Lines	Proactive	\$650	0.0	\$0	
Shoulder Rumble Strip	Proactive	\$3,000	5.8	\$17,400	
Edge Line 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	\$15,660
Local Match (10% of Total project cost)	\$1,740
<b>Total Project Cost</b>	<b>\$17,400</b>

### NDDOT Central Office Only

Project Accepted?  Yes  No Reference Number ID Number

Notes

Page: 12  
Segment ID: 2.02  
Date: 8/13/2013

# HIGHWAY SAFETY IMPROVEMENT PROGRAM (HSIP) PROJECT APPLICATION

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

## Ward 23 (153rd St) from US Hwy 2 to 66th St

**Agency Name:** Ward County

**ND DOT District:** 4

**Contact Name:** Dana Larsen

**Telephone Number:** 701-838-2810

**Email Address:** dana.larsen@wardnd.com

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

### Location Description

Start: US Hwy 2  
End: 66th St  
Facility Type: 2-Lane  
ADT: 310  
Road Type: Rural Paved  
County Road: Ward 23  
Local Name: 153rd St

Lane Width: 12'  
Speed Limit: High  
Shoulder Width: 2'  
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

	Total	Road Dept	K+A
Crashes	12	4	1
Density (per mile per year)	0.26	0.09	0.02
Rate (per MVM)	2.33	0.78	0.19

	Value	Critical	Road
ADT Range	310	150≤ADT≤400	★
RD Density	0.088	0.032	★
Access Density	6.9	8.0	
Curve Critical Radius Density	0.220	0.035	★
Edge Risk	1	2 or 3	

★★★



### Describe Proposed Safety Improvements

Description	Type	Cost per mi	Mileage	Cost	Notes -
4" Edge Lines	Proactive	\$400	0.0	\$0	
6" Edge Lines	Proactive	\$650	0.0	\$0	
Shoulder Rumble Strip	Proactive	\$3,000	0.0	\$0	
Edge Line Rumble Strip	Proactive	\$3,500	9.1	\$31,850	
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	\$28,665
Local Match (10% of Total project cost)	\$3,185
<b>Total Project Cost</b>	<b>\$31,850</b>

### NDDOT Central Office Only

Project Accepted?  Yes  No Reference Number ID Number

Notes

Page: 13  
Segment ID: 23.04  
Date: 8/13/2013

# HIGHWAY SAFETY IMPROVEMENT PROGRAM (HSIP) PROJECT APPLICATION

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

## Ward 14 (54th Ave) from Ward 9 to 62nd St

**Agency Name:** Ward County

**ND DOT District:** 4

**Contact Name:** Dana Larsen

**Telephone Number:** 701-838-2810

**Email Address:** dana.larsen@wardnd.com

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

### Location Description

Start: Ward 9  
End: 62nd St  
Facility Type: 2-Lane  
ADT: 210  
Road Type: Rural Paved  
County Road: Ward 14  
Local Name: 54th Ave

Lane Width: 12'  
Speed Limit: High  
Shoulder Width: 2'  
Shoulder Type: Paved  
Length (miles): 17.8  
Rumble Installed: Yes

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

	Total	Road Dept	K+A
Crashes	14	6	0
Density (per mile per year)	0.16	0.07	0.00
Rate (per MVM)	2.05	0.88	0.00

	Value	Critical	Road
ADT Range	210	150≤ADT≤400	★
RD Density	0.067	0.032	★
Access Density	4.3	8.0	
Curve Critical Radius Density	0.056	0.035	★
Edge Risk	1	2 or 3	
			★★★



### Describe Proposed Safety Improvements

Description	Type	Cost per mi	Mileage	Cost	Notes -
4" Edge Lines	Proactive	\$400	0.0	\$0	
6" Edge Lines	Proactive	\$650	0.0	\$0	
Shoulder Rumble Strip	Proactive	\$3,000	0.0	\$0	
Edge Line Rumble Strip	Proactive	\$3,500	17.8	\$62,300	
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	\$56,070
Local Match (10% of Total project cost)	\$6,230
<b>Total Project Cost</b>	<b>\$62,300</b>

### NDDOT Central Office Only

Project Accepted?  Yes  No Reference Number ID Number

Notes

Page: 14  
Segment ID: 14.02  
Date: 8/13/2013

# HIGHWAY SAFETY IMPROVEMENT PROGRAM (HSIP) PROJECT APPLICATION

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

## Ward 9 (310th St/338th St) from State Route 23 to Ward 14

Agency Name: Ward County

ND DOT District: 4

Contact Name: Dana Larsen

Telephone Number: 701-838-2810

Email Address: dana.larsen@wardnd.com

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

### Location Description

Start: State Route 23  
End: Ward 14  
Facility Type: 2-Lane  
ADT: 328  
Road Type: Rural Paved  
County Road: Ward 9  
Local Name: 310th St/338th St

Lane Width: 12'  
Speed Limit: High  
Shoulder Width: 2'  
Shoulder Type: Paved  
Length (miles): 15.5  
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

	Total	Road Dept	K+A
Crashes	7	2	0
Density (per mile per year)	0.09	0.03	0.00
Rate (per MVM)	0.79	0.22	0.00

	Value	Critical	Road
ADT Range	328	150≤ADT≤400	★
RD Density	0.040	0.032	★
Access Density	4.8	8.0	
Curve Critical Radius Density	0.470	0.035	★
Edge Risk	1	2 or 3	

★★★



### Describe Proposed Safety Improvements

Description	Type	Cost per mi	Mileage	Cost	Notes -
4" Edge Lines	Proactive	\$400	0.0	\$0	
6" Edge Lines	Proactive	\$650	0.0	\$0	
Shoulder Rumble Strip	Proactive	\$3,000	15.5	\$46,500	
Edge Line 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	\$40,230
Local Match (10% of Total project cost)	\$4,470
<b>Total Project Cost</b>	<b>\$46,500</b>

### NDDOT Central Office Only

Project Accepted?  Yes  No Reference Number ID Number

Notes

Page: 15  
Segment ID: 9.03  
Date: 11/13/2013

**Ward County Rural Curve Projects**

<b>Corridor</b>	<b>Local Street Name</b>	<b>Start</b>	<b>End</b>	<b># of Curves</b>	<b>Cost</b>
1.01	534th St	State Route 50	436th Ave	1	\$ 5,265
2.02	436th Ave	590th ST	Ward 11	1	\$ 4,209
5.03	Main St	US Hwy 52	Ward 7	6	\$ 25,727
6.03	198th Ave	State Route 28	Reneville 6	1	\$ 3,755
8.01	128th Ave	US Hwy 52	US Hwy 83	1	\$ 6,373
9.03	310th St	Ward 20	Ward 14	0	\$ 1,818
10.01	184th St	Ward 9	Granly St	0	\$ 1,364
10.02	19th Ave	Granly St	US Hwy 2	4	\$ 17,745
10.03	60 th St	Ward 15	US Hwy 83	0	\$ 1,364
12.03	4th Ave	55th St	US Hwy 2	2	\$ 9,109
14.04	54th Ave	US Hwy 83	1 mile east of 13th St	5	\$ 8,873
14.06	37th St	Ward 14A	72nd AVE Ave	1	\$ 4,555
15.04	County Road 15 W	Ward 10	1 mile South of 86th St	1	\$ 5,118
17.01	62nd St	Ward 14	US Hwy 2	1	\$ 5,464
17.02	54th St	US Hwy 2	Ward 15	0	\$ 2,727
23.02	21st Ave	State Route 23	US Hwy 53	1	\$ 4,555
501.03	142nd St	State Route 22	Ward 22	1	\$ 1,255
				<b>26</b>	<b>\$ 109,276</b>

Ward County Curves

Curve Count	ID	Corridor	Segment	Start	End	Inside				Outside				Curve Advisory Sign	Speed Advisory Sign	Chevrons	Crashes						Risk Factors					Risk Ranking
						Paved Shoulder Width	Gravel Shoulder Width	Curb & Gutter	Shoulder Type	Paved Shoulder Width	Gravel Shoulder Width	Curb & Gutter	Shoulder Type				Total	Total Severe	K	A	B	C	PDO	Radius (ft)	Severe Crash	ADT	Intersection on Curve	
1	001A	1.01	Ward 1	Intersection with state route 50	Intersection with 436th Ave	0	0	0	None	0	0	0	None	Yes	Yes	No	-	-	-	-	-	-	850	No	309	Yes	Yes	★★★★
2	001B	1.01	Ward 1	Intersection with state route 50	Intersection with 436th Ave	0	0	0	None	0	0	0	None	Yes	No	No	-	-	-	-	-	-	1000	No	309	No	No	★★
3	001C	1.01	Ward 1	Intersection with state route 50	Intersection with 436th Ave	0	0	0	None	0	0	0	None	Yes	No	No	-	-	-	-	-	-	1700	No	309	No	No	★
4	001D	1.01	Ward 1	Intersection with state route 50	Intersection with 436th Ave	0	0	0	None	0	0	0	None	Yes	No	No	1	-	-	-	-	-	770	No	309	No	No	★★
5	002A	2.01	Ward 2	Intersection with 72nd Ave	Intersection with 450th Ave	0	0	0	None	0	0	0	None	No	No	No	-	-	-	-	-	-	2900	No	145	Yes	No	★
6	002B	2.01	Ward 2	Intersection with 72nd Ave	Intersection with 450th Ave	0	0	0	None	0	0	0	None	No	No	No	-	-	-	-	-	-	1300	No	145	No	No	★
7	002C	2.02	Ward 2	Intersection with 590th ST	Intersection with Ward 11	2	0	0	Paved	2	0	0	Paved	No	No	No	1	-	-	-	-	-	1500	No	395	No	No	★
8	002D	2.02	Ward 2	Intersection with 590th ST	Intersection with Ward 11	2	0	0	Paved	2	0	0	Paved	Yes	No	No	3	-	-	-	-	-	2800	No	395	Yes	No	★★
9	002E	2.02	Ward 2	Intersection with 590th ST	Intersection with Ward 11	2	0	0	Paved	2	0	0	Paved	Yes	No	No	-	-	-	-	-	-	1600	No	395	No	No	★
10	002F	2.02	Ward 2	Intersection with 590th ST	Intersection with Ward 11	2	0	0	Paved	2	0	0	Paved	Yes	Yes	No	1	-	-	-	-	-	1900	No	395	No	No	★
11	002G	2.02	Ward 2	Intersection with 590th ST	Intersection with Ward 11	2	0	0	Paved	2	0	0	Paved	Yes	Yes	No	-	-	-	-	-	-	1500	No	395	No	No	★
12	002H	2.02	Ward 2	Intersection with 590th ST	Intersection with Ward 11	2	0	0	Paved	2	0	0	Paved	Yes	Yes	No	-	-	-	-	-	-	760	No	395	No	No	★★
13	002I	2.02	Ward 2	Intersection with 590th ST	Intersection with Ward 11	2	0	0	Paved	2	0	0	Paved	Yes	Yes	No	2	-	-	-	-	-	800	No	395	Yes	Yes	★★★★
14	002J	2.03	Ward 2	Intersection with Ward 1	Intersection with US Hwy 52	0	4	0	Gravel	0	4	0	Gravel	No	No	No	-	-	-	-	-	-	1400	No	1230	Yes	No	★
15	002K	2.04	Ward 2	Intersection with US Hwy 52	Intersection with Ward 3	2	0	0	Paved	2	0	0	Paved	No	No	No	-	-	-	-	-	-	320	No	430	No	No	★
16	005A	5.02	Ward 5	Intersection with 240th Ave	Intersection with US Hwy 52	2	0	0	Paved	2	0	0	Paved	Yes	No	Yes	-	-	-	-	-	-	1300	No	115	No	No	★
17	005B	5.02	Ward 5	Intersection with 240th Ave	Intersection with US Hwy 52	2	0	0	Paved	2	0	0	Paved	Yes	No	No	-	-	-	-	-	-	1150	No	115	Yes	No	★★
18	005C	5.02	Ward 5	Intersection with 240th Ave	Intersection with US Hwy 52	2	0	0	Paved	2	0	0	Paved	Yes	No	No	-	-	-	-	-	-	1600	No	115	No	No	★
19	005D	5.03	Ward 5	Intersection with US Hwy 52	Intersection with Ward 7	2	0	0	Paved	2	0	0	Paved	No	No	No	-	-	-	-	-	-	700	No	80	Yes	No	★★
20	005E	5.03	Ward 5	Intersection with US Hwy 52	Intersection with Ward 7	2	0	0	Paved	2	0	0	Paved	Yes	No	No	-	-	-	-	-	-	450	No	80	No	No	★
21	005F	5.03	Ward 5	Intersection with US Hwy 52	Intersection with Ward 7	2	0	0	Paved	2	0	0	Paved	Yes	No	No	-	-	-	-	-	-	1200	No	80	No	No	★
22	005G	5.03	Ward 5	Intersection with US Hwy 52	Intersection with Ward 7	2	0	0	Paved	2	0	0	Paved	Yes	No	No	-	-	-	-	-	-	1000	No	80	No	No	★
23	005H	5.03	Ward 5	Intersection with US Hwy 52	Intersection with Ward 7	2	0	0	Paved	2	0	0	Paved	Yes	No	No	-	-	-	-	-	-	1700	No	80	No	No	★
24	005I	5.03	Ward 5	Intersection with US Hwy 52	Intersection with Ward 7	2	0	0	Paved	2	0	0	Paved	Yes	No	No	-	-	-	-	-	-	1000	No	80	No	No	★
25	006A	6.02	Ward 6	1 mile to city of carpio	Intersection with state route 28	2	0	0	Paved	2	0	0	Paved	Yes	No	No	-	-	-	-	-	-	1100	No	60	No	No	★
26	006B	6.02	Ward 6	1 mile to city of carpio	Intersection with state route 28	2	0	0	Paved	2	0	0	Paved	Yes	No	No	-	-	-	-	-	-	1120	No	60	No	No	★
27	006C	6.02	Ward 6	1 mile to city of carpio	Intersection with state route 28	2	0	0	Paved	2	0	0	Paved	Yes	No	No	-	-	-	-	-	-	790	No	60	No	No	★
28	006D	6.02	Ward 6	1 mile to city of carpio	Intersection with state route 28	2	0	0	Paved	2	0	0	Paved	Yes	No	No	-	-	-	-	-	-	1050	No	60	No	No	★
29	006E	6.02	Ward 6	1 mile to city of carpio	Intersection with state route 28	2	0	0	Paved	2	0	0	Paved	Yes	No	No	-	-	-	-	-	-	2200	No	60	No	No	★
30	006F	6.02	Ward 6	1 mile to city of carpio	Intersection with state route 28	2	0	0	Paved	2	0	0	Paved	Yes	No	No	-	-	-	-	-	-	850	No	60	No	No	★
31	006G	6.03	Ward 6	Intersection with state route 28	Intersection with Reneville 6	0	0	0	None	0	0	0	None	No	No	No	-	-	-	-	-	-	1120	No	218	Yes	Yes	★★★
32	006H	6.03	Ward 6	Intersection with state route 28	Intersection with Reneville 6	0	0	0	None	0	0	0	None	No	No	No	-	-	-	-	-	-	870	No	218	No	No	★★
33	006I	6.03	Ward 6	Intersection with state route 28	Intersection with Reneville 6	0	0	0	None	0	0	0	None	Yes	No	No	-	-	-	-	-	-	1050	No	218	No	No	★
34	006J	6.03	Ward 6	Intersection with state route 28	Intersection with Reneville 6	0	0	0	None	0	0	0	None	Yes	No	No	-	-	-	-	-	-	1200	No	218	No	No	★
35	006K	6.03	Ward 6	Intersection with state route 28	Intersection with Reneville 6	0	0	0	None	0	0	0	None	Yes	No	No	-	-	-	-	-	-	2700	No	218	Yes	No	★
36	006L	6.03	Ward 6	Intersection with state route 28	Intersection with Reneville 6	0	0	0	None	0	0	0	None	Yes	No	No	1	-	-	-	-	-	1500	No	218	Yes	No	★
37	006M	6.03	Ward 6	Intersection with state route 28	Intersection with Reneville 6	0	0	0	None	0	0	0	None	Yes	No	No	-	-	-	-	-	-	1350	No	218	No	No	★
38	006N	6.03	Ward 6	Intersection with state route 28	Intersection with Reneville 6	0	0	0	None	0	0	0	None	Yes	Yes	No	-	-	-	-	-	-	140	No	218	No	No	★
39	006O	6.03	Ward 6	Intersection with state route 28	Intersection with Reneville 6	0	0	0	None	0	0	0	None	Yes	No	No	-	-	-	-	-	-	700	No	218	No	Yes	★★
40	006P	6.03	Ward 6	Intersection with state route 28	Intersection with Reneville 6	0	0	0	None	0	0	0	None	Yes	No	No	1	-	-	-	-	-	1250	No	218	No	No	★
41	006Q	6.03	Ward 6	Intersection with state route 28	Intersection with Reneville 6	0	0	0	None	0	0	0	None	Yes	No	No	-	-	-	-	-	-	1000	No	218	Yes	No	★★
42	008A	8.01	Ward 8	Intersection with US Hwy 52	Intersection with US Hwy 83	2	0	0	Paved	2	0	0	Paved	No	No	No	-	-	-	-	-	-	670	No	174	Yes	No	★★
43	008B	8.01	Ward 8	Intersection with US Hwy 52	Intersection with US Hwy 83	2	0	0	Paved	2	0	0	Paved	No	No	No	-	-	-	-	-	-	500	No	174	Yes	No	★★
44	008C	8.01	Ward 8	Intersection with US Hwy 52	Intersection with US Hwy 83	2	0	0	Paved	2	0	0	Paved	Yes	No	No	-	-	-	-	-	-	1000	No	174	Yes	No	★★
45	008D	8.01	Ward 8	Intersection with US Hwy 52	Intersection with US Hwy 83	2	0	0	Paved	2	0	0	Paved	Yes	No	No	-	-	-	-	-	-	250	No	174	Yes	Yes	★★
46	008E	8.01	Ward 8	Intersection with US Hwy 52	Intersection with US Hwy 83	2	0	0	Paved	2	0	0	Paved	-	-	-	-	-	-	-	-	-	1900	No	174	No	No	★
47	009A	9.02	Ward 9	Intersection with state route 23	Intersection with Ward 20	2	0	0	Paved	2	0	0	Paved	Yes	Yes	No	-	-	-	-	-	-	840	No	675	Yes	Yes	★★★★
48	009B	9.03	Ward 9	Intersection with Ward 20	Intersection with Ward 14	2	0	0	Paved	2	0	0	Paved	-	-	-	-	-	-	-	-	-	850	No	157	Yes	Yes	★★★★
49	009C	9.03	Ward 9	Intersection with Ward 20	Intersection with Ward 14	2	0	0	Paved	2	0	0	Paved	-	-	-	1	-	-	-	-	-	1100	No	157	No	No	★★
50	009D	9.03	Ward 9	Intersection with Ward 20	Intersection with Ward 14	2	0	0	Paved	2	0	0	Paved	-	-	-	-	-	-	-	-	-	1200	No	157	Yes	Yes	★★★★
51	009E	9.03	Ward 9	Intersection with Ward 20	Intersection with Ward 14	2	0	0	Paved	2	0	0	Paved	-	-	-	-	-	-	-	-	-	1400	No	157	No	No	★
52	009F	9.03	Ward 9	Intersection with Ward 20	Intersection with Ward 14	2	0	0	Paved	2	0	0	Paved	-	-	-	-	-	-	-	-	-	1060	No	157	No	No	★
53	009G	9.03	Ward 9	Intersection with Ward 20	Intersection with Ward 14	2	0	0	Paved	2	0	0	Paved	-	-	-	2	-	-	-	-	-	1120	No	157	No	No	★
54	010A	10.01	Ward 10	Intersection with Ward 9	Intersection with Granly St	4	0	0	Paved	4	0	0	Paved	Yes	No	No	-	-	-	-	-	-	380	No	263	No	Yes	★★
55	010B	10.01	Ward 10	Intersection with Ward 9	Intersection with Granly St	4	0	0	Paved	4	0	0	Paved	Yes	No	No	2	-	-	-	-	-	900	No	263	No	No	★★
56	010C	10.01	Ward 10	Intersection with Ward 9	Intersection with Granly St	4	0	0	Paved	4	0	0	Paved	Yes	No	No	-	-	-	-	-	-	1000	No	263	No	No	★★
57	010D	10.01	Ward 10	Intersection with Ward 9	Intersection with Granly St	4	0	0	Paved	4	0	0	Paved	Yes	No	No	1	1	-	1	-	-	950	Yes	263	No	No	★★★★
58	010E	10.01	Ward 10	Intersection with Ward 9	Intersection with Granly St	4	0	0	Paved	4	0	0	Paved	Yes	No	No	-	-	-	-	-	-	1200	No	263	No	No	★★
59	010F	10.01	Ward 10	Intersection with Ward 9	Intersection with Granly St	4	0	0	Paved	4	0	0	Paved	Yes	No	No	1	-	-	-	-	-	730	No	263	No	No	★★
60	010G	10.01	Ward 10	Intersection with Ward 9	Intersection with Granly St	4	0	0	Paved	4	0	0	Paved	Yes	No	No	1	-	-	-	-	-	750	No	263	Yes	Yes	★★★★
61	010H	10.01	Ward 10	Intersection with Ward 9	Intersection with Granly St	4	0	0	Paved	4	0	0	Paved	Yes	No	No	-	-	-	-	-	-	1100	No	263	No	Yes	★★★★
62	010I	10.01	Ward 10	Intersection with Ward 9	Intersection with Granly St	4	0	0	Paved	4	0	0	Paved	Yes	No	No												





Ward County Curves

Curve Count	ID	Corridor	Segment	Start	End	Inside				Outside				Curve Advisory Sign	Speed Advisory Sign	Chevrons	Crashes						Risk Factors								
						Paved Shoulder Width	Gravel Shoulder Width	Curb & Gutter	Shoulder Type	Paved Shoulder Width	Gravel Shoulder Width	Curb & Gutter	Shoulder Type				Total	Total Severe	K	A	B	C	PDO	Radius (ft)	Severe Crash	ADT	Intersection on Curve	Visual Trap	Risk Ranking		
148 024A	24.01	Ward 24	Ward 24	Intersection with state route 28	Intersection with 142nd St	2	0	0	Paved	2	0	0	Paved				-	-	-	-	-	-	-	4000	No	178	Yes	No	*		
149 024B	24.01	Ward 24	Ward 24	Intersection with state route 28	Intersection with 142nd St	2	0	0	Paved	2	0	0	Paved				-	-	-	-	-	-	-	5000	No	178	Yes	No	*		
150 024C	24.02	Ward 24	Ward 24	Intersection with 142nd St	Intersection with US Hwy 83	2	0	0	Paved	2	0	0	Paved				-	-	-	-	-	-	4000	No	283	No	No	*			
151 024D	24.02	Ward 24	Ward 24	Intersection with 142nd St	Intersection with US Hwy 83	2	0	0	Paved	2	0	0	Paved				1	-	-	-	-	-	3000	No	283	Yes	No	**			
152 501A	501.03	No designation	No designation	Intersection with State route 22	Intersection with Ward 22	2	0	0	Paved	2	0	0	Paved				-	-	-	-	-	-	860	No	85	Yes	No	**			
153 501B	501.03	No designation	No designation	Intersection with State route 22	Intersection with Ward 22	2	0	0	Paved	2	0	0	Paved				-	-	-	-	-	-	760	No	85	Yes	Yes	***			
154 501C	501.01	No designation	No designation	Intersection with 373rd Ave	Intersection with Ward 24	0	0	0	None	0	0	0	None				2	-	-	-	-	-	530	No	61	Yes	No	**			
155 504A	504.03	No designation	No designation	Intersection with US Hwy 52	Intersection with Ward 14	2	0	0	Paved	2	0	0	Paved				-	-	-	-	-	-	2200	No	488	Yes	No	**			
156 504B	504.03	No designation	No designation	Intersection with US Hwy 52	Intersection with Ward 14	2	0	0	Paved	2	0	0	Paved				-	-	-	-	-	-	1000	No	488	No	No	**			
157 504C	504.03	No designation	No designation	Intersection with US Hwy 52	Intersection with Ward 14	2	0	0	Paved	2	0	0	Paved				-	-	-	-	-	-	85	No	488	Yes	No	**			
158 504D	504.02	No designation	No designation	Intersection with Ward 16	Intersection with US Hwy 52	2	0	0	Paved	2	0	0	Paved				-	-	-	-	-	-	85	No	325	Yes	No	**			
159 504E	504.02	No designation	No designation	Intersection with Ward 16	Intersection with US Hwy 52	2	0	0	Paved	2	0	0	Paved				1	-	-	-	1	-	930	No	325	No	No	**			
160 504F	504.02	No designation	No designation	Intersection with Ward 16	Intersection with US Hwy 52	2	0	0	Paved	2	0	0	Paved				-	-	-	-	-	-	1900	No	325	No	No	*			
161 504G	504.02	No designation	No designation	Intersection with Ward 16	Intersection with US Hwy 52	2	0	0	Paved	2	0	0	Paved				-	-	-	-	-	-	1500	No	325	Yes	No	**			
162 504H	504.02	No designation	No designation	Intersection with Ward 16	Intersection with US Hwy 52	2	0	0	Paved	2	0	0	Paved				-	-	-	-	-	-	330	No	325	Yes	No	**			
																	119	6	1	5	11	4	98	69		79					27

Stars	Total #	%	Chevroned (#)	% of Stars
*****	0	0%	0	0%
****	6	4%	0	0%
***	15	9%	2	13%
**	51	31%	2	4%
*	65	40%	2	3%
	25	15%	1	4%
	162	100%	7	4%

\*\*CHEVRON ANALYSIS NOT COMPLETE

Critical Ranges	Max
Radius	1,200
ADT	650

**HIGHWAY SAFETY IMPROVEMENT PROGRAM (HSIP) PROJECT APPLICATION**

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

**Curves on Ward 1 from State Route 50 to 436th Ave**

**Agency Name: Ward County**  
**Contact Name: Dana Larsen**  
**Email Address: dana.larsen@wardnd.com**

**ND DOT District: 4**  
**Telephone Number: 701-838-2810**

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

**Location Description (Corridor Containing Curves)**

Start: State Route 50 End: 436th Ave Facility Type: 2-Lane ADT: 309 Road Type: Rural Paved County Road: Ward 1	Lane Width: 12' Speed Limit: High Shoulder Width: 0' Shoulder Type: None Length (miles): 8.8 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	Oil County Project	Project Suggested	Sign Improvement Project	Shoulder Paving Project	Shoulder Rumble Strip Project	Advance Horizontal Alignment Warning Sign	Advisory Speed Plaque
001A	0	0	850	309	Yes	Yes	★★★★	YES	Yes	-	-	Inside/Outside	0	0
001B	0	0	1000	309	No	No	★★	YES	Yes	-	-	Inside/Outside	0	0
001C	0	0	1700	309	No	No	★	No	Yes	Chevron	-	Inside/Outside	-	-
001D	0	0	770	309	No	No	★★	YES	Yes	-	-	Inside/Outside	0	0

\*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 250 to 650	- x in High Priority Segment + Critical Radius column
Intersection on Curve Yes	
Visual Trap Yes	

**Describe Proposed Safety Improvements**

Description	Type	Unit Cost	Quantity	Total cost
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	.7 miles	\$1,965
Shoulder Paving	Proactive	\$37,000 per mile	.0 miles	\$0
				<b>\$5,265</b>

**Project Cost Estimate (attach detailed copy)**

**Proposed Year of Construction**

Federal Funds	\$4,739
Local Match (10% of Total project cost)	\$527
<b>Total Project Cost</b>	<b>\$5,265</b>

**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 Ward 2 from 590th ST to Ward 11**

Agency Name: Ward County  
Contact Name: Dana Larsen  
Email Address: dana.larsen@wardnd.com

ND DOT District: 4  
Telephone Number: 701-838-2810

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

**Location Description (Corridor Containing Curves)**

Start: 590th ST End: Ward 11 Facility Type: 2-Lane ADT: 395 Road Type: Rural Paved County Road: Ward 2	Lane Width: 12' Speed Limit: High Shoulder Width: 2' Shoulder Type: Paved Length (miles): 5.8 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	Oil County Project	Project Suggested	Sign Improvement Project	Shoulder Paving Project	Shoulder Rumble Strip Project	Advance Horizontal Alignment Warning Sign	Advisory Speed Plaque
002C	0	0	1500	395	No	No	*	No	-	-	-	-	-	-
002D	0	0	2800	395	Yes	No	**	No	-	-	-	-	-	-
002E	0	0	1600	395	No	No	*	No	-	-	-	-	-	-
002F	0	0	1900	395	No	No	*	No	-	-	-	-	-	-
002G	0	0	1500	395	No	No	*	No	-	-	-	-	-	-
002H	0	0	760	395	No	No	**	YES	Yes	-	-	Inside/Outside	0	0
002I	0	0	800	395	Yes	Yes	****	YES	Yes	Chevron	-	Inside/Outside	0	0

\*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 250 to 650	- x in High Priority Segment + Critical Radius column
Intersection on Curve Yes	
Visual Trap Yes	

**Describe Proposed Safety Improvements**

Description	Type	Unit Cost	Quantity	Total cost
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	.3 miles	\$909
Shoulder Paving	Proactive	\$37,000 per mile	.0 miles	\$0
				<b>\$4,209</b>

**Project Cost Estimate (attach detailed copy)**

**Proposed Year of Construction**

Federal Funds	\$3,788
Local Match (10% of Total project cost)	\$421
<b>Total Project Cost</b>	<b>\$4,209</b>

**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 Ward 5 from US Hwy 52 to Ward 7**

Agency Name: Ward County

Contact Name: Dana Larsen

Email Address: dana.larsen@wardnd.com

ND DOT District: 4

Telephone Number: 701-838-2810

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

**Location Description (Corridor Containing Curves)**

Start: US Hwy 52 End: Ward 7 Facility Type: 2-Lane ADT: 80 Road Type: Rural Paved County Road: Ward 5	Lane Width: 12' Speed Limit: High Shoulder Width: 2' Shoulder Type: Paved Length (miles): 1.8 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	Oil County Project	Project Suggested	Sign Improvement Project	Shoulder Paving Project	Shoulder Rumble Strip Project	Advance Horizontal Alignment Warning Sign	Advisory Speed Plaque
005D	0	0	700	80	Yes	No	★★	No	Yes	Chevron	-	Inside/Outside	x	45
005E	0	0	450	80	No	No		No	Yes	Chevron	-	Inside/Outside	x	35
005F	0	0	1200	80	No	No	★	No	Yes	Chevron	-	Inside/Outside	-	-
005G	0	0	1000	80	No	No	★	No	Yes	Chevron	-	Inside/Outside	x	50
005H	0	0	1700	80	No	No		No	Yes	Chevron	-	Inside/Outside	-	-
005I	0	0	1000	80	No	No	★	No	Yes	Chevron	-	Inside/Outside	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 250 to 650	- x in High Priority Segment + Critical Radius column
Intersection on Curve Yes	
Visual Trap Yes	

**Describe Proposed Safety Improvements**

Description	Type	Unit Cost	Quantity	Total cost
Chevrons	Proactive	\$3,300 per curve	6	\$19,800
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	.9 miles	\$2,727
Shoulder Paving	Proactive	\$37,000 per mile	.0 miles	\$0
				<b>\$25,727</b>

**Project Cost Estimate (attach detailed copy)**

**Proposed Year of Construction**

Federal Funds	\$23,155
Local Match (10% of Total project cost)	\$2,573
<b>Total Project Cost</b>	<b>\$25,727</b>

**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 Ward 6 from State Route 28 to Reneville 6**

Agency Name: Ward County

Contact Name: Dana Larsen

Email Address: dana.larsen@wardnd.com

ND DOT District: 4

Telephone Number: 701-838-2810

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

**Location Description (Corridor Containing Curves)**

Start: State Route 28 End: Reneville 6 Facility Type: 2-Lane ADT: 218 Road Type: Rural Paved County Road: Ward 6	Lane Width: 12' Speed Limit: Low Shoulder Width: 0' Shoulder Type: None Length (miles): 7.1 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	Oil County Project	Project Suggested	Sign Improvement Project	Shoulder Paving Project	Shoulder Rumble Strip Project	Advance Horizontal Alignment Warning Sign	Advisory Speed Plaque
006G	0	0	1120	218	Yes	Yes	***	No	Yes	Chevron	Inside/Outside	Inside/Outside	-	-
006H	0	0	870	218	No	No	*	YES	-	-	-	-	-	-
006I	0	0	1050	218	No	No	*	YES	-	-	-	-	-	-
006J	0	0	1200	218	No	No	*	YES	-	-	-	-	-	-
006K	0	0	2700	218	Yes	No	*	No	-	-	-	-	-	-
006L	0	0	1500	218	Yes	No	*	YES	-	-	-	-	-	-
006M	0	0	1350	218	No	No		YES	-	-	-	-	-	-
006N	0	0	140	218	No	No		YES	-	-	-	-	-	-
006O	0	0	700	218	No	Yes	**	YES	-	-	-	-	-	-
006P	0	0	1250	218	No	No		YES	-	-	-	-	-	-
006Q	0	0	1000	218	Yes	No	**	YES	-	-	-	-	-	-

\*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 250 to 650	- x in High Priority Segment + Critical Radius column
Intersection on Curve Yes	
Visual Trap Yes	

**Describe Proposed Safety Improvements**

Description	Type	Unit Cost	Quantity	Total cost
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	.2 miles	\$455
Shoulder Paving	Proactive	\$37,000 per mile	.0 miles	\$0
				<b>\$3,755</b>

**Project Cost Estimate (attach detailed copy)**

**Proposed Year of Construction**

Federal Funds	\$3,379
Local Match (10% of Total project cost)	\$376
<b>Total Project Cost</b>	<b>\$3,755</b>

**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 Ward 8 from US Hwy 52 to US Hwy 83**

Agency Name: Ward County

Contact Name: Dana Larsen

Email Address: dana.larsen@wardnd.com

ND DOT District: 4

Telephone Number: 701-838-2810

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

**Location Description (Corridor Containing Curves)**

Start: US Hwy 52 End: US Hwy 83 Facility Type: 2-Lane ADT: 174 Road Type: Rural Paved County Road: Ward 8	Lane Width: 12' Speed Limit: High Shoulder Width: 2' Shoulder Type: Paved Length (miles): 12.9 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	Oil County Project	Project Suggested	Sign Improvement Project	Shoulder Paving Project	Shoulder Rumble Strip Project	Advance Horizontal Alignment Warning Sign	Advisory Speed Plaque
008A	0	0	670	174	Yes	No	**	No	Yes	Chevron	-	Inside/Outside	x	40
008B	0	0	500	174	Yes	No	**	YES	Yes	-	-	Inside/Outside	0	40
008C	0	0	1000	174	Yes	No	**	YES	Yes	-	-	Inside/Outside	0	50
008D	0	0	250	174	Yes	Yes	**	YES	Yes	-	-	Inside/Outside	0	Inspect Curve
008E	0	0	1900	174	No	No		YES	Yes	-	-	Inside/Outside	0	-

\*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 250 to 650	- x in High Priority Segment + Critical Radius column
Intersection on Curve Yes	
Visual Trap Yes	

**Describe Proposed Safety Improvements**

Description	Type	Unit Cost	Quantity	Total cost
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	.8 miles	\$2,273
Shoulder Paving	Proactive	\$37,000 per mile	.0 miles	\$0
				<b>\$6,373</b>

**Project Cost Estimate (attach detailed copy)**

**Proposed Year of Construction**

Federal Funds	\$5,735
Local Match (10% of Total project cost)	\$637
<b>Total Project Cost</b>	<b>\$6,373</b>

**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 Ward 9 from State Route 23 to Ward 14**

Agency Name: Ward County

Contact Name: Dana Larsen

Email Address: dana.larsen@wardnd.com

ND DOT District: 4

Telephone Number: 701-838-2810

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

**Location Description (Corridor Containing Curves)**

Start: State Route 23 End: Ward 14 Facility Type: 2-Lane ADT: 328 Road Type: Rural Paved County Road: Ward 9	Lane Width: 12' Speed Limit: High Shoulder Width: 2' Shoulder Type: Paved Length (miles): 14.9 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	Oil County Project	Project Suggested	Sign Improvement Project	Shoulder Paving Project	Shoulder Rumble Strip Project	Advance Horizontal Alignment Warning Sign	Advisory Speed Plaque
009A	0	0	840	328	Yes	Yes	★★★★	YES	Yes	-	-	Inside/Outside	0	45
009B	0	0	850	328	Yes	Yes	★★★★	YES	Yes	-	-	Inside/Outside	0	45
009C	0	0	1100	328	No	No	★★	YES	Yes	-	-	Inside/Outside	0	-
009D	0	0	1200	328	Yes	Yes	★★★★	YES	Yes	-	-	Inside/Outside	-	-
009E	0	0	1400	328	No	No	★	YES	-	-	-	-	-	-
009F	0	0	1060	328	No	No	★★	YES	-	-	-	-	-	-
009G	0	0	1120	328	No	No	★★	YES	-	-	-	-	-	-

\*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 250 to 650	- x in High Priority Segment + Critical Radius column
Intersection on Curve Yes	
Visual Trap Yes	

**Describe Proposed Safety Improvements**

Description	Type	Unit Cost	Quantity	Total cost
Chevrons	Proactive	\$3,300 per curve	0	\$0
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	.6 miles	\$1,818
Shoulder Paving	Proactive	\$37,000 per mile	.0 miles	\$0
				<b>\$1,818</b>

**Project Cost Estimate (attach detailed copy)**

**Proposed Year of Construction**

Federal Funds	\$1,636
Local Match (10% of Total project cost)	\$182
<b>Total Project Cost</b>	<b>\$1,818</b>

**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 Ward 10 from Ward 9 to Granly St**

Agency Name: Ward County

Contact Name: Dana Larsen

Email Address: dana.larsen@wardnd.com

ND DOT District: 4

Telephone Number: 701-838-2810

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

**Location Description (Corridor Containing Curves)**

Start: Ward 9 End: Granly St Facility Type: 2-Lane ADT: 263 Road Type: Rural Paved County Road: Ward 10	Lane Width: 12' Speed Limit: High Shoulder Width: 4' Shoulder Type: Paved Length (miles): 10.7 Rumble Installed: Yes	<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	Oil County Project	Project Suggested	Sign Improvement Project	Shoulder Paving Project	Shoulder Rumble Strip Project	Advance Horizontal Alignment Warning Sign	Advisory Speed Plaque
010A	0	0	380	263	No	Yes	**	No	0	-	-	-	-	-
010B	0	0	900	263	No	No	**	No	-	-	-	-	-	-
010C	0	0	1000	263	No	No	**	No	-	-	-	-	-	-
010D	0	0	950	263	No	No	**	No	-	-	-	-	-	-
010E	0	0	1200	263	No	No	**	No	-	-	-	-	-	-
010F	0	0	730	263	No	No	**	No	-	-	-	-	-	-
010G	0	0	750	263	Yes	Yes	****	YES	Yes	-	-	Inside/Outside	0	45
010H	0	0	1100	263	No	Yes	***	YES	Yes	-	-	Inside/Outside	0	-
010I	0	0	570	263	Yes	No	***	YES	Yes	-	-	Inside/Outside	0	40
010J	0	0	690	263	No	No	**	YES	-	-	-	-	-	-
010K	0	0	1600	263	No	No	*	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 250 to 650	- x in High Priority Segment + Critical Radius column
Intersection on Curve Yes	
Visual Trap Yes	

**Describe Proposed Safety Improvements**

Description	Type	Unit Cost	Quantity	Total cost
Chevrons	Proactive	\$3,300 per curve	0	\$0
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	.5 miles	\$1,364
Shoulder Paving	Proactive	\$37,000 per mile	.0 miles	\$0
				\$1,364

**Project Cost Estimate (attach detailed copy)**

**Proposed Year of Construction**

Federal Funds	\$1,227
Local Match (10% of Total project cost)	\$136
<b>Total Project Cost</b>	<b>\$1,364</b>

**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 Ward 10 from Granly St to US Hwy 2**

Agency Name: Ward County

Contact Name: Dana Larsen

Email Address: dana.larsen@wardnd.com

ND DOT District: 4

Telephone Number: 701-838-2810

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

**Location Description (Corridor Containing Curves)**

Start: Granly St End: US Hwy 2 Facility Type: 2-Lane ADT: 671 Road Type: Rural Paved County Road: Ward 10	Lane Width: 12' Speed Limit: High Shoulder Width: 2' Shoulder Type: Paved Length (miles): 7.6 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	Oil County Project	Project Suggested	Sign Improvement Project	Shoulder Paving Project	Shoulder Rumble Strip Project	Advance Horizontal Alignment Warning Sign	Advisory Speed Plaque
010L	0	0	600	671	No	No	*	YES	Yes	-	-	Inside/Outside	0	40
010M	0	0	550	671	Yes	Yes	***	YES	Yes	-	-	Inside/Outside	0	40
010N	0	0	1500	671	No	No		YES	Yes	-	-	Inside/Outside	-	-
010O	0	0	1800	671	No	No		No	Yes	Chevron	-	Inside/Outside	-	-
010P	0	1	1700	671	No	No	*	YES	Yes	-	-	Inside/Outside	-	-
010Q	1	0	3400	671	Yes	No	**	No	Yes	Chevron	-	Inside/Outside	-	-
010R	0	0	2400	671	No	No		No	Yes	Chevron	-	Inside/Outside	-	-
010S	0	0	3000	671	Yes	No	*	No	Yes	Chevron	-	Inside/Outside	-	-
010T	0	0	1300	671	No	No		YES	Yes	-	-	Inside/Outside	-	-
010U	0	0	1450	671	Yes	No	*	YES	Yes	-	-	Inside/Outside	-	-

\*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 250 to 650	- x in High Priority Segment + Critical Radius column
Intersection on Curve Yes	
Visual Trap Yes	

**Describe Proposed Safety Improvements**

Description	Type	Unit Cost	Quantity	Total cost
Chevrons	Proactive	\$3,300 per curve	4	\$13,200
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	1.5 miles	\$4,545
Shoulder Paving	Proactive	\$37,000 per mile	.0 miles	\$0
				<b>\$17,745</b>

**Project Cost Estimate (attach detailed copy)**

**Proposed Year of Construction**

Federal Funds	\$15,971
Local Match (10% of Total project cost)	\$1,775
<b>Total Project Cost</b>	<b>\$17,745</b>

**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 Ward 10 from Ward 15 to US Hwy 83**

**Agency Name:** Ward County  
**Contact Name:** Dana Larsen  
**Email Address:** dana.larsen@wardnd.com

**ND DOT District:** 4  
**Telephone Number:** 701-838-2810

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

**Location Description (Corridor Containing Curves)**

Start: Ward 15 End: US Hwy 83 Facility Type: 2-Lane ADT: 457 Road Type: Rural Paved County Road: Ward 10	Lane Width: 12' Speed Limit: High Shoulder Width: 8' Shoulder Type: Paved Length (miles): 4.8 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	Oil County Project	Project Suggested	Sign Improvement Project	Shoulder Paving Project	Shoulder Rumble Strip Project	Advance Horizontal Alignment Warning Sign	Advisory Speed Plaque
010V	0	0	820	457	No	Yes	***	YES	Yes	-	-	Inside/Outside	0	45
010W	0	0	850	457	No	No	**	YES	Yes	-	-	Inside/Outside	0	45
010X	0	0	320	457	No	No	*	YES	Yes	-	-	Inside/Outside	0	35

\*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 250 to 650	- x in High Priority Segment + Critical Radius column
Intersection on Curve Yes	
Visual Trap Yes	

**Describe Proposed Safety Improvements**

Description	Type	Unit Cost	Quantity	Total cost
Chevrons	Proactive	\$3,300 per curve	0	\$0
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	.5 miles	\$1,364
Shoulder Paving	Proactive	\$37,000 per mile	.0 miles	\$0
				<b>\$1,364</b>

**Project Cost Estimate (attach detailed copy)**

**Proposed Year of Construction**

Federal Funds	\$1,227
Local Match (10% of Total project cost)	\$136
<b>Total Project Cost</b>	<b>\$1,364</b>

**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 Ward 12 from 55th St to US Hwy 2**

**Agency Name:** Ward County  
**Contact Name:** Dana Larsen  
**Email Address:** dana.larsen@wardnd.com

**ND DOT District:** 4  
**Telephone Number:** 701-838-2810

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

**Location Description (Corridor Containing Curves)**

Start: 55th St End: US Hwy 2 Facility Type: 2-Lane ADT: 1204 Road Type: Rural Paved County Road: Ward 12	Lane Width: 12' Speed Limit: High Shoulder Width: 2' Shoulder Type: Paved Length (miles): 4.1 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	Oil County Project	Project Suggested	Sign Improvement Project	Shoulder Paving Project	Shoulder Rumble Strip Project	Advance Horizontal Alignment Warning Sign	Advisory Speed Plaque
012C	0	0	70	1204	Yes	Yes	★★	No	Yes	Chevron	-	Inside/Outside	x	Inspect Curve
012D	0	0	170	1204	No	No		No	Yes	Chevron	-	Inside/Outside	x	Inspect Curve

\*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 250 to 650	- x in High Priority Segment + Critical Radius column
Intersection on Curve Yes	
Visual Trap Yes	

**Describe Proposed Safety Improvements**

Description	Type	Unit Cost	Quantity	Total cost
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	.3 miles	\$909
Shoulder Paving	Proactive	\$37,000 per mile	.0 miles	\$0
				<b>\$9,109</b>

**Project Cost Estimate (attach detailed copy)**

**Proposed Year of Construction**

Federal Funds	\$8,198
Local Match (10% of Total project cost)	\$911
<b>Total Project Cost</b>	<b>\$9,109</b>

**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 Ward 14 from US Hwy 83 to 1 mile east of 13th St**

Agency Name: Ward County

Contact Name: Dana Larsen

Email Address: dana.larsen@wardnd.com

ND DOT District: 4

Telephone Number: 701-838-2810

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

**Location Description (Corridor Containing Curves)**

Start: US Hwy 83 End: 1 mile east of 13th St Facility Type: 2-Lane ADT: 548 Road Type: Rural Paved County Road: Ward 14	Lane Width: 12' Speed Limit: High Shoulder Width: 2' Shoulder Type: Composite Length (miles): 2.1 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	Oil County Project	Project Suggested	Sign Improvement Project	Shoulder Paving Project	Shoulder Rumble Strip Project	Advance Horizontal Alignment Warning Sign	Advisory Speed Plaque
014F	0	1	180	548	No	Yes	***	YES	Yes	-	-	Inside/Outside	0	Inspect Curve
014G	0	0	300	548	No	No	*	YES	Yes	-	-	Inside/Outside	0	35
014H	0	0	1400	548	No	No	*	No	Yes	Chevron	-	Inside/Outside	-	-
014I	0	0	1200	548	No	No	**	No	Yes	Chevron	-	Inside/Outside	-	-
014J	0	0	330	548	No	No	*	YES	Yes	-	-	Inside/Outside	0	35

\*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 250 to 650	- x in High Priority Segment + Critical Radius column
Intersection on Curve Yes	
Visual Trap Yes	

**Describe Proposed Safety Improvements**

Description	Type	Unit Cost	Quantity	Total cost
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	0	\$0
Shoulder Rumble Strip	Proactive	\$3,000 per mile	.8 miles	\$2,273
Shoulder Paving	Proactive	\$37,000 per mile	.0 miles	\$0
				<b>\$8,873</b>

**Project Cost Estimate (attach detailed copy)**

**Proposed Year of Construction**

Federal Funds	\$7,985
Local Match (10% of Total project cost)	\$887
<b>Total Project Cost</b>	<b>\$8,873</b>

**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 Ward 14 from Ward 14A to 72nd Ave Ave**

Agency Name: Ward County

Contact Name: Dana Larsen

Email Address: dana.larsen@wardnd.com

ND DOT District: 4

Telephone Number: 701-838-2810

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

**Location Description (Corridor Containing Curves)**

Start: Ward 14A End: 72nd Ave Ave Facility Type: 2-Lane ADT: 408 Road Type: Rural Paved County Road: Ward 14	Lane Width: 12' Speed Limit: Low Shoulder Width: 2' Shoulder Type: Paved Length (miles): 2.2 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	Oil County Project	Project Suggested	Sign Improvement Project	Shoulder Paving Project	Shoulder Rumble Strip Project	Advance Horizontal Alignment Warning Sign	Advisory Speed Plaque
014O	0	0	150	408	Yes	No	★★	No	-	-	-	-	-	-
014P	0	0	480	408	Yes	No	★★	No	Yes	Chevron	-	Inside/Outside	x	35
014Q	0	0	920	408	No	No	★★	YES	-	-	-	-	-	-
014R	0	0	550	408	No	No	★★	YES	-	-	-	-	-	-
014S	0	0	600	408	No	No	★★	YES	-	-	-	-	-	-

\*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 250 to 650	- x in High Priority Segment + Critical Radius column
Intersection on Curve Yes	
Visual Trap Yes	

**Describe Proposed Safety Improvements**

Description	Type	Unit Cost	Quantity	Total cost
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	.2 miles	\$455
Shoulder Paving	Proactive	\$37,000 per mile	.0 miles	\$0
				<b>\$4,555</b>

**Project Cost Estimate (attach detailed copy)**

**Proposed Year of Construction**

Federal Funds	\$4,099
Local Match (10% of Total project cost)	\$455
<b>Total Project Cost</b>	<b>\$4,555</b>

**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 Ward 15 from Ward 10 to 1 mile South of 86th St**

Agency Name: Ward County

Contact Name: Dana Larsen

Email Address: dana.larsen@wardnd.com

ND DOT District: 4

Telephone Number: 701-838-2810

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

**Location Description (Corridor Containing Curves)**

Start: Ward 10 End: 1 mile South of 86th St Facility Type: 2-Lane ADT: 520 Road Type: Rural Paved County Road: Ward 15	Lane Width: 12' Speed Limit: High Shoulder Width: 2' Shoulder Type: Paved Length (miles): 2.2 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	Oil County Project	Project Suggested	Sign Improvement Project	Shoulder Paving Project	Shoulder Rumble Strip Project	Advance Horizontal Alignment Warning Sign	Advisory Speed Plaque
015A	0	0	3400	520	No	No	★	No	Yes	Chevron	-	Inside/Outside	-	-
015B	0	0	2300	520	No	No	★	No	-	-	-	-	-	-
015C	0	0	2300	520	No	No	★	No	-	-	-	-	-	-
015D	0	0	3000	520	No	No	★	No	-	-	-	-	-	-
015E	0	0	1650	520	No	No	★	YES	Yes	-	-	Inside/Outside	-	-
015F	0	0	800	520	Yes	Yes	★★★★	YES	Yes	-	-	Inside/Outside	0	45
015G	0	0	900	520	Yes	Yes	★★★★	YES	Yes	-	-	Inside/Outside	0	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 250 to 650	- x in High Priority Segment + Critical Radius column
Intersection on Curve Yes	
Visual Trap Yes	

**Describe Proposed Safety Improvements**

Description	Type	Unit Cost	Quantity	Total cost
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	.6 miles	\$1,818
Shoulder Paving	Proactive	\$37,000 per mile	.0 miles	\$0
				<b>\$5,118</b>

**Project Cost Estimate (attach detailed copy)**

**Proposed Year of Construction**

Federal Funds	\$4,606
Local Match (10% of Total project cost)	\$512
<b>Total Project Cost</b>	<b>\$5,118</b>

**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 Ward 17 from Ward 14 to US Hwy 2**

Agency Name: Ward County

Contact Name: Dana Larsen

Email Address: dana.larsen@wardnd.com

ND DOT District: 4

Telephone Number: 701-838-2810

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

**Location Description (Corridor Containing Curves)**

Start: Ward 14 End: US Hwy 2 Facility Type: 2-Lane ADT: 315 Road Type: Rural Paved County Road: Ward 17	Lane Width: 12' Speed Limit: Low Shoulder Width: 4' Shoulder Type: Paved Length (miles): 3.1 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	Oil County Project	Project Suggested	Sign Improvement Project	Shoulder Paving Project	Shoulder Rumble Strip Project	Advance Horizontal Alignment Warning Sign	Advisory Speed Plaque
017A	0	0	1000	315	No	No	**	YES	-	-	-	-	-	-
017B	0	0	1150	315	No	No	**	No	-	-	-	-	-	-
017C	0	0	530	315	No	No	**	YES	-	-	-	-	-	-
017D	0	0	200	315	Yes	Yes	***	YES	Yes	-	-	Inside/Outside	0	Inspect Curve
017E	0	0	810	315	Yes	No	***	YES	Yes	-	-	Inside/Outside	0	45
017F	0	0	60	315	Yes	Yes	***	No	Yes	Chevron	-	Inside/Outside	x	Inspect Curve
017G	0	0	600	315	No	No	**	No	-	-	-	-	-	-
017H	0	0	230	315	Yes	No	**	No	-	-	-	-	-	-
017I	0	0	50	315	Yes	No	**	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 250 to 650	- x in High Priority Segment + Critical Radius column
Intersection on Curve Yes	
Visual Trap Yes	

**Describe Proposed Safety Improvements**

Description	Type	Unit Cost	Quantity	Total cost
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	.5 miles	\$1,364
Shoulder Paving	Proactive	\$37,000 per mile	.0 miles	\$0
				<b>\$5,464</b>

**Project Cost Estimate (attach detailed copy)**

**Proposed Year of Construction**

Federal Funds	\$4,917
Local Match (10% of Total project cost)	\$546
<b>Total Project Cost</b>	<b>\$5,464</b>

**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 Ward 17 from US Hwy 2 to Ward 15**

Agency Name: Ward County  
Contact Name: Dana Larsen  
Email Address: dana.larsen@wardnd.com

ND DOT District: 4  
Telephone Number: 701-838-2810

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

**Location Description (Corridor Containing Curves)**

Start: US Hwy 2 End: Ward 15 Facility Type: 2-Lane ADT: 1575 Road Type: Rural Paved County Road: Ward 17	Lane Width: 12' Speed Limit: High Shoulder Width: 4' Shoulder Type: Paved Length (miles): 1.3 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	Oil County Project	Project Suggested	Sign Improvement Project	Shoulder Paving Project	Shoulder Rumble Strip Project	Advance Horizontal Alignment Warning Sign	Advisory Speed Plaque
017J	0	0	800	1575	No	No	★	YES	Yes	-	-	Inside/Outside	0	45
017K	0	0	550	1575	No	No	★	YES	Yes	-	-	Inside/Outside	0	40
017L	0	0	800	1575	No	No	★	YES	Yes	-	-	Inside/Outside	0	45
017M	0	0	450	1575	No	No	★	YES	Yes	-	-	Inside/Outside	0	35
017N	0	0	420	1575	Yes	No	★	YES	Yes	-	-	Inside/Outside	0	35
017O	0	0	380	1575	Yes	No	★	YES	Yes	-	-	Inside/Outside	0	35

\*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 250 to 650	- x in High Priority Segment + Critical Radius column
Intersection on Curve Yes	
Visual Trap Yes	

**Describe Proposed Safety Improvements**

Description	Type	Unit Cost	Quantity	Total cost
Chevrons	Proactive	\$3,300 per curve	0	\$0
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	.9 miles	\$2,727
Shoulder Paving	Proactive	\$37,000 per mile	.0 miles	\$0
				<b>\$2,727</b>

**Project Cost Estimate (attach detailed copy)**

**Proposed Year of Construction**

Federal Funds	\$2,455
Local Match (10% of Total project cost)	\$273
<b>Total Project Cost</b>	<b>\$2,727</b>

**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 Ward 23 from State Route 23 to US Hwy 53**

Agency Name: Ward County

Contact Name: Dana Larsen

Email Address: dana.larsen@wardnd.com

ND DOT District: 4

Telephone Number: 701-838-2810

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

**Location Description (Corridor Containing Curves)**

Start: State Route 23 End: US Hwy 53 Facility Type: 2-Lane ADT: 362 Road Type: Rural Paved County Road: Ward 23	Lane Width: 12' Speed Limit: High Shoulder Width: 2' Shoulder Type: Paved Length (miles): 7.7 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	Oil County Project	Project Suggested	Sign Improvement Project	Shoulder Paving Project	Shoulder Rumble Strip Project	Advance Horizontal Alignment Warning Sign	Advisory Speed Plaque
023C	0	0	3000	362	No	No	*	No	-	-	-	-	-	-
023D	0	0	3200	362	No	No	*	No	-	-	-	-	-	-
023E	0	0	2500	362	Yes	No	**	No	-	-	-	-	-	-
023F	0	0	1600	362	No	No	*	No	-	-	-	-	-	-
023G	0	0	1300	362	No	Yes	**	YES	-	-	-	-	-	-
023H	0	0	420	362	Yes	No	**	No	Yes	Chevron	-	Inside/Outside	x	35

\*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 250 to 650	- x in High Priority Segment + Critical Radius column
Intersection on Curve Yes	
Visual Trap Yes	

**Describe Proposed Safety Improvements**

Description	Type	Unit Cost	Quantity	Total cost
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	.2 miles	\$455
Shoulder Paving	Proactive	\$37,000 per mile	.0 miles	\$0
				<b>\$4,555</b>

**Project Cost Estimate (attach detailed copy)**

**Proposed Year of Construction**

Federal Funds	\$4,099
Local Match (10% of Total project cost)	\$455
<b>Total Project Cost</b>	<b>\$4,555</b>

**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 No designation from State Route 22 to Ward 22**

Agency Name: Ward County

Contact Name: Dana Larsen

Email Address: dana.larsen@wardnd.com

ND DOT District: 4

Telephone Number: 701-838-2810

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

**Location Description (Corridor Containing Curves)**

Start: State Route 22 End: Ward 22 Facility Type: 2-Lane ADT: 85 Road Type: Rural Paved County Road: No designation	Lane Width: 12' Speed Limit: High Shoulder Width: 2' Shoulder Type: Paved Length (miles): 5.1 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	Oil County Project	Project Suggested	Sign Improvement Project	Shoulder Paving Project	Shoulder Rumble Strip Project	Advance Horizontal Alignment Warning Sign	Advisory Speed Plaque
501A	0	0	860	85	Yes	No	★★	YES	Yes	-	-	Inside/Outside	x	45
501B	0	0	760	85	Yes	Yes	★★★	YES	Yes	-	-	Inside/Outside	0	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 250 to 650	- x in High Priority Segment + Critical Radius column
Intersection on Curve Yes	
Visual Trap Yes	

**Describe Proposed Safety Improvements**

Description	Type	Unit Cost	Quantity	Total cost
Chevrons	Proactive	\$3,300 per curve	0	\$0
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	.2 miles	\$455
Shoulder Paving	Proactive	\$37,000 per mile	.0 miles	\$0
				<b>\$1,255</b>

**Project Cost Estimate (attach detailed copy)**

**Proposed Year of Construction**

Federal Funds	\$1,129
Local Match (10% of Total project cost)	\$125
<b>Total Project Cost</b>	<b>\$1,255</b>

**NDDOT Central Office Only**

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