Appendix A. Combined Operations and Safety Analysis Tables

## IHSDM

IHSDM is a tool interface that allows users to enter geometric and traffic data to create a model. This tool was created by FHWA's Safety R&D Program and is meant to evaluate existing and proposed alternatives. The prediction is based on the HSM, in particular Part C (Chapters 10, 11, 12) along with various supplemental NCHRP projects to round out location types. HSM is built upon the use of SPFs (Safety Performance Functions) in conjunction with CMF (crash modification factors). Each location type has an associated SPF that predicts the crash frequency for that specific type. Depending on the local conditions, such as lane width, there are CMFs to adjust the baseline crash frequency prediction. Some key factors considered by the HSM:

- Roadway Classification
- Horizontal Alignment
- Vertical Alignment
- Annual Average Daily Traffic (AADT)
- Posted Speed
- Roadway Lighting
- Roadway Cross Section
- Lane Types, Widths, Slopes
- Median Type and Width
- Intersection Control Type
- Left-Turn Phasing Type

IHSDM was used to evaluate:

- Roundabout (1-lane and 2-lane)
- Signalized
- AWSC
- TWSC
- Offset-T (signalized and TWSC)

For the Offset-T intersection, IHSDM used 2 T-intersections along with the segment length between the two intersections to determine the final crash frequency. This is the full footprint of the intersection type as there will be increased volumes along the intermediate segment.

# SPICE

The SPICE spreadsheet is provided by FHWA and NCHRP to aid in the safety analysis of alternatives for a specific intersection. The SPICE tool relies on the HSM as well as supplemental NCHRP reports for location types. The SPICE tool uses SPFs and CMFs depending on SPF availability. Users select a list of possible intersections to consider, as well as adding in CMFs for intersection types that are not listed in the SPICE tool. The SPICE tool takes inputs

of AADTs and intersection layout. The output is a predicted crash frequency per year. The intersection alternatives evaluated in the SPICE tool were:

- Roundabout (1-lane)
- AWSC
- Median U-Turn (MUT)
- Restricted Crossing U-Turn (RCUT)
- Continuous Green
- Jughandle
- Signalized
- TWSC
- Displaced Left-Turn
- Offset-T

For the Offset-T intersection, a custom CMF had to be created. The crash frequency totals from ISHDM for a signalized intersection were compared to the Offset-T outputs. The ratio was calculated to obtain a CMF to use in the SPICE tool.

# NCHRP 17-98

The final tool used was the NCHRP 17-98 report and SSI (Safe Systems Intersections). This tool utilizes conflict point evaluations rather than whole intersections. This tool also provides a score from 0-100 and not a crash prediction. A score of 100 denotes the safest score possible. The score is comprised of several factors:

- Exposure This is essentially the AADT for the conflicting movements.
- Probability for fatal and severe injury This includes speed and the angle of the collision
- Complexity This captures the complexity of the movement, such as the number of through lanes the movement passes through.

This tool does not analyze pedestrian risk factors. The intersection analyzed from the SSI method were:

- Roundabouts (1-lane & 2-lane)
- AWSC
- MUT
- RCUT
- Bowtie
- Continuous Green
- Jughandle
- Signalized
- TWSC
- Full and Partial Displaced Left-Turn

		EB	NB	SB	WB	Intersection		SPICE Re	sults
2023	AM	10.5 / B	-	-	12.1 / B	4.6 / -		Total	FI
	PM	13.7 / B	-	-	14.2 / B	5.1 / -	Safety	5.02	2.17
2045	AM	12.7 / B	-	-	16.9 / C	5.6 / -			
	PM	28.6 / D	-	-	28. 7 / D	8.5 / -			

Table 1. Combined LOS and SPICE Results, Existing Conditions

\*Existing condition is two-way stop control, which does not report intersection or free movement LOS

Table 2. Combined LOS and SPICE Results, All-Way Stop Control

		EB	NB	SB	WB	Intersection		SPICE F	lesults
2023	AM	9.2 / A	10 / A	9.4 / A	8.7 / A	9.5 / A		Total	FI
	PM	9.9 / A	10.1 / B	10.4 / B	9 / A	10.1 / B	Safety		
2045	AM	11.1 / B	13.7 / B	11.9 / B	10.1 / B	12.4 / B		2.61	1.13
2043	PM	12.7 / B	14 / B	15.6 / C	10.6 / B	14.1 / B			

Table 3. Combined LOS and SPICE Results, Signalized

		EB	NB	SB	WB	Intersection		SPICE R	esults
2023	AM	6.6 / A	4.1 / A	3.9 / A	8.2 / B	5.0 / A		Total	FI
	PM	7.7 / A	4.2 / A	4.2 / A	8.4 / B	5.1 / A	Safety		
2045	AM	6.3 / A	4.7 / A	4.2 / A	7.8 / B	5.2 / A	-	5.11	1.74
2043	PM	7.9 / A	5.5 / A	5.6 / A	8.1 / B	6.1 / A			

Table 4. Combined LOS and SPICE Results, Roundabout

		EB	NB	SB	WB	Intersection		SPICE R	esults
2023	AM	5.7 / A	8.4 / A	7.9 / A	8.3 / A	7.9 / A	Total	FI	
	PM	6.5 / A	9.0 / A	8.7 / A	8.4 / A	8.5 / A	Safety		
2045	AM	6.1 / A	8.6 / A	8.3 / A	9.4 / A	8.3 / A		1.46	0.28
2045	PM	7.7 / A	9.5 / A	9.3 / A	9.3 / A	9.2 / A			

Table 5. Combined LOS and SPICE Results, Offset-T with Two-Way Stop Control

			EB	NB	SB	WB	North Intersection	South Intersection		SPICE	Results
2	022	AM	10.2 / B	-	-	10.6 / B	2.6 / -	2.1 / -		Total	FI
Z	023	PM	10.7 / B	-	-	10.5 / B	3.2 / -	2.4 / -	Safety		
2	045	AM	11.1 / B	-	-	12.8 / B	2.9 / -	2.5 / -		5.34	2.21
Z	040	PM	13.6 / B	-	-	12.7 / B	3.7 / -	2.8 / -			

\*IHSDM CMF Results

South	South Intersection								
		EB	NB	SB	WB	Intersection		SPICE Results	
2023	AM	-	3.2 / A	4.2 / A	8.8 / A	4.5 / A		Total	FI
2023	PM	-	3.0 / A	2.6 / A	9.3 / A	3.6 / A			
2045	AM	-	4.5 / A	5.0 / A	8.6 / A	5.3 / A			
2043	PM	-	3.5 / A	2.4 / A	8.9 / A	3.5 / A			
North	Interse	ection					Safety		
		EB	NB	SB	WB	Intersection		4.40	1.60
2023	AM	8.3 / A	1.9 / A	3.1 / A	-	3.1 / A			
2023	PM	8.0 / A	3.4 / A	3.8 / A	-	4.4 / A			
2045	AM	8.0 / A	2.4 / A	3.9 / A	-	3.5 / A			
2043	PM	8.0 / A	5.1 / A	4.9 / A	-	5.5 / A			

#### Table 6. Combined LOS and SPICE Results, Offset-T Signalized

\*IHSDM CMF Results

## **IHSDM Results**

IHSDM provides results in the form of crash frequency per year. The table below depicts the results of the IHSDM analysis. There is a total crash frequency column ("Total") and a fatal and injury crash frequency column ("FI"). The final column is a ranking with 1 being the lowest crash frequency. The top predictive intersections are a 1-lane roundabout, AWSC, and an Offset-T.

Table	7.	IHSDM	Results
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Intersection Type	Total	FI	IHSDM Rank
1-Lane Roundabout	1.72	0.32	1
All-Way Stop	1.79	0.49	2
Offset-T (3SG)	4.396	1.6044	3
Traffic Signal	5.36	1.82	4
Minor Road Stop	5.81	2.5	5
1-Lane/2-Lane Roundabout	6.62	0.81	6
2-Lane Roundabout	7.13	0.84	7

## **SPICE Results**

The spice tool results are in the table below. The total crash frequency and the SPICE rank (1 being the best performing) are listed. The top performing intersections are the 1-lane roundabout, AWSC, and unsignalized RCUT.

#### Table 8. SPICE Results

Intersection Type	Total	SPICE Rank
1-Lane Roundabout	1.46	1
All-Way Stop	2.61	2
Unsignalized RCUT	3.27	3
Jughandle	3.78	4
Offset-T (3SG)	4.19	5
MUT	4.34	6
Signalized RCUT	4.34	6
FDLT	4.50	8
CGT	4.90	9
Minor Road Stop	5.02	10
Traffic Signal	5.11	11

## NCHRP 17-98 Results

The SSI score has a scale of 0-100 with 100 being the best possible score. The top performing intersections are a 1-lane roundabout, a 1-lane/2-lane roundabout, and a 2-lane roundabout.

Table 9. NCHRP 17-98 Results

Intersection Type	SSI	SSI Rank
1-Lane Roundabout	99.95	1
All-Way Stop	99.43	2
Signalized RCUT	98.35	3
Unsignalized RCUT	98.03	4
MUT	97.96	5
FDLT	97.40	6
PDLT	97.13	7
Bowtie	96.71	8
Jughandle	95.51	9
CGT	95.36	10
Traffic Signal	94.73	11
Minor Road Stop	93.68	12

# **Final Compilation**

While each methodology included various intersection types, not all intersection types were evaluated in each methodology. A final list of comparison was created to evaluate desired intersection alternatives, as well as intersection alternatives that were analyzed across all three methodologies. A final numerical ranking was assigned due to the conflicting outputs of crash frequency and an 0-100 scale.

The table below contains the final cross rankings. Each methodology has a 1-lane roundabout as the top performer, along with an AWSC as the second-best performer. Each has a separate third ranking ranging from a signalized RCUT, and unsignalized RCUT, and a signalized Offset - T intersection.

Intersection Type	SSI Rank	SPICE Rank	IHSDM Rank
1-Lane Roundabout	1	1	1
All-Way Stop	2	2	2
1-Lane/2-Lane Roundabout	-	-	6
Unsignalized RCUT	4	3	-
2-Lane Roundabout	-	-	7
Offset-T (3SG)	-	5	3
Signalized RCUT	3	6	-
MUT	5	6	-
Jughandle	7	4	-
FDLT	6	8	-
CGT	8	9	-
Traffic Signal	9	11	4
Minor Road Stop	10	10	5

#### Table 10. Combined Results

Appendix B. Cost Estimates Note: All cost estimates are preliminary and provided in 2025 dollars, so they are subject to inflation.

#### Interim Condition

ITEM NO.	ITEM	UNIT	ESTIMATED QUANTITIES ROADWAY CODE 05	ESTIMATED UNIT COST	TOTAL COST	
405 05000				å <u> </u>	4 0 500 00	
106.05200	CONTRACTOR TESTING	LS	LUMP SUM	\$ 2,500.00		
109.04000	FORCE ACCOUNT WORK	\$\$	10000	\$ 1.00	\$ 10,000.00	
109.08000	MOBILIZATION	LS	LUMP SUM	\$ 7,500.00	\$ 7,500.00	
202.03305	MILLING PLANT MIX	SY	570	\$ 5.00	\$ 2,850.00	
202.03400	REMOVAL OF SURFACING	SY	1670	\$ 9.00	\$ 15,030.00	
209.01000	WATER	MG	4	\$ 3.00	\$ 12.00	
216.03100	SEEDING (PLS)	LB	6	\$ 40.00	\$ 240.00	
216.03120	FERTILIZER TYPE I	LB	10	\$ 10.00	\$ 100.00	
216.03900	DRY MULCH	TON	1	\$ 415.00	\$ 415.00	
301.01085	CRUSHED BASE	CY	100	\$ 40.00	\$ 4,000.00	
406.03005	PLANT MIX (COMMERCIAL)	TON	130	\$ 180.00	\$ 23,400.00	
407.01000	TACK COAT	TON	1	\$ 1,000.00	\$ 1,000.00	
702.30000*	REGULATORY SIGNS	EA	5	\$ 1,000.00	\$ 5,000.00	
702.30600	RESET SIGNS	LS	LUMP SUM	\$ 500.00	\$ 500.00	
702.50700	RESET DELINEATORS	EA	4	\$ 60.00	\$ 240.00	
703.03100	FLAGGING	HR	100	\$ 45.00	\$ 4,500.00	
703.03110	TEMPORARY TRAFFIC CONTROL	LS	LUMP SUM	\$ 5,000.00	\$ 5,000.00	

 SUBTOTAL
 \$
 82,287.00

 CONTINGENCY (30%)
 \$
 24,686.10

TOTAL \$ 106,973.10

## All-Way Stop Control Alternative

			ESTIMATED QUANTITIES		1
ITEM NO.	ITEM	UNIT	ROADWAY	ESTIMATED UNIT COST	TOTAL COST
			CODE 03		
106.05200	CONTRACTOR TESTING	LS	LUMP SUM	\$ 60,000.00	\$ 60,000.00
109.04000	FORCE ACCOUNT WORK	\$\$	10000	\$ 1.00	\$ 10,000.00
109.08000	MOBILIZATION	LS	LUMP SUM	\$ 200,000.00	\$ 200,000.00
199.00005	ADJUSTING UTILITIES	\$\$	1	\$ 70,000.00	\$ 70,000.00
202.03120	REMOVAL OF SIGNS	LS	LUMP SUM	\$ 5,000.00	\$ 5,000.00
202.03170	REMOVAL OF GUARDRAIL	FT	900	\$ 5.00	\$ 4,500.00
202.03205	REMOVAL OF FENCE	FT	7790	\$ 5.00	\$ 38,950.00
202.03305	MILLING PLANT MIX	SY	26000	\$ 5.00	\$ 130,000.00
202.03445	REMOVAL OF CURB AND GUTTER	FT	560	\$ 20.00	\$ 11,200.00
209.01000	WATER	MG	170	\$ 3.00	\$ 510.00
216.03100	SEEDING (PLS)	LB	30	\$ 40.00	\$ 1,200.00
216.03120	FERTILIZER TYPE I	LB	40	\$ 10.00	\$ 400.00
216.03900	DRY MULCH	TON	3	\$ 415.00	\$ 1,245.00
301.01085	CRUSHED BASE	CY	4580	\$ 40.00	\$ 183,200.00
401.02055	HOT PLANT MIX APPROACHES	TON	950	\$ 250.00	\$ 237,500.00
401.03321	ASPHALT BINDER (PG 58-28)	TON	78	\$ 600.00	\$ 46,800.00
406.03005	PLANT MIX (COMMERCIAL)	TON	4310	\$ 180.00	\$ 775,800.00
606.01020	MGS GUARDRAIL	FT	910	\$ 35.00	\$ 31,850.00
606.02050	MGS TERMINAL TYPE I	EA	4	\$ 3,500.00	\$ 14,000.00
607.20600	FENCE TYPE F (WOOD POSTS)	FT	8000	\$ 5.00	\$ 40,000.00
607.80100	BRACE PANELS	EA	6	\$ 315.00	\$ 1,890.00
607.90100	END PANELS	EA	44	\$ 385.00	\$ 16,940.00
608.10200	SIDEWALK (CONC)	SY	800	\$ 120.00	\$ 96,000.00
609.10200	CURB AND GUTTER TYPE A	FT	1,200	\$ 60.00	\$ 72,000.00
701.70000	FLASHING BEACON SYSTEM	LS	LUMP SUM	\$ 15,000.00	\$ 15,000.00
702.30000*	REGULATORY SIGNS	LS	LUMP SUM	\$ 16,000.00	\$ 16,000.00
702.30100	SIGN POSTS, WOOD 4 X 4 in	FT	6	\$ 30.00	\$ 180.00
702.30600	RESET SIGNS	LS	LUMP SUM	\$ 5,000.00	\$ 5,000.00
702.50100	DELINEATORS, TYPE I	EA	51	\$ 90.00	\$ 4,590.00
702.50200	DELINEATORS, TYPE II	EA	30	\$ 90.00	\$ 2,700.00
703.03100	FLAGGING	HR	1000	\$ 45.00	\$ 45,000.00
703.03110	TEMPORARY TRAFFIC CONTROL	LS	LUMP SUM	\$ 10,000.00	\$ 10,000.00
703.1000*	PERMANENT STRIPING	LS	LUMP SUM	\$ 100,000.00	\$ 100,000.00

SUBTOTAL \$ 2,147,455.00

CONTINGENCY (30%) \$ 644,236.50

TOTAL \$ 2,791,691.50

#### Roundabout Alternative

			ESTIMATED QUANTITIES			
ITEM NO.	ITEM		ROADWAY	ESTIMATED UNIT COST	TOTAL COST	
			CODE 03			
	•					
106.05200	CONTRACTOR TESTING	LS	LUMP SUM	\$ 60,000.00	\$ 60,000.00	
109.04000	FORCE ACCOUNT WORK	\$\$	10000	\$ 1.00	\$ 10,000.00	
109.08000	MOBILIZATION	LS	LUMP SUM	\$ 200,000.00	\$ 200,000.00	
199.00005	ADJUSTING UTILITIES	\$\$	1	\$ 70,000.00	\$ 70,000.00	
202.03120	REMOVAL OF SIGNS	LS	LUMP SUM	\$ 5,000.00	\$ 5,000.00	
202.03170	REMOVAL OF GUARDRAIL	FT	270	\$ 5.00	\$ 1,350.00	
202.03205	REMOVAL OF FENCE	FT	3620	\$ 5.00	\$ 18,100.00	
202.03305	MILLING PLANT MIX	SY	15000	\$ 5.00	\$ 75,000.00	
202.03445	REMOVAL OF CURB AND GUTTER	FT	560	\$ 20.00	\$ 11,200.00	
209.01000	WATER	MG	97	\$ 3.00	\$ 291.00	
216.03100	SEEDING (PLS)	LB	30	\$ 40.00	\$ 1,200.00	
216.03120	FERTILIZER TYPE I	LB	40	\$ 10.00	\$ 400.00	
216.03900	DRY MULCH	TON	3	\$ 415.00	\$ 1,245.00	
301.01085	CRUSHED BASE	CY	2600	\$ 40.00	\$ 104,000.00	
401.02055	HOT PLANT MIX APPROACHES	TON	450	\$ 200.00	\$ 90,000.00	
401.03321	ASPHALT BINDER (PG 58-28)	TON	53	\$ 600.00	\$ 31,800.00	
406.03005	PLANT MIX (COMMERCIAL)	TON	1480	\$ 180.00	\$ 266,400.00	
407.01000	TACK COAT	TON	6	\$ 910.00	\$ 5,460.00	
414.01035	CONCRETE PVMT (8 in)	SY	6420	\$ 140.00	\$ 898,800.00	
606.01020	MGS GUARDRAIL	FT	280	\$ 35.00	\$ 9,800.00	
606.02050	MGS TERMINAL TYPE I	EA	2	\$ 3,500.00	\$ 7,000.00	
607.20600	FENCE TYPE F (WOOD POSTS)	FT	4000	\$ 5.00	\$ 20,000.00	
607.80100	BRACE PANELS	EA	7	\$ 315.00	\$ 2,205.00	
607.90100	END PANELS	EA	31	\$ 385.00	\$ 11,935.00	
608.10200	SIDEWALK (CONC)	SY	800	\$ 120.00	\$ 96,000.00	
609.10200	CURB AND GUTTER TYPE A	FT	1,600	\$ 60.00	\$ 96,000.00	
701.70000	FLASHING BEACON SYSTEM	LS	LUMP SUM	\$ 15,000.00	\$ 15,000.0	
702.30000*	REGULATORY SIGNS	LS	LUMP SUM	\$ 12,000.00	\$ 12,000.00	
702.30100	SIGN POSTS, WOOD 4 X 4 in	FT	6	\$ 30.00	\$ 180.0	
702.30600	RESET SIGNS	LS	LUMP SUM	\$ 5,000.00	\$ 5,000.00	
702.50100	DELINEATORS, TYPE I	EA	46	\$ 90.00	\$ 4,140.00	
702.50200	DELINEATORS, TYPE II	EA	14	\$ 90.00	\$ 1,260.00	
703.03100	FLAGGING	HR	1000	\$ 45.00	\$ 45,000.0	
703.03110	TEMPORARY TRAFFIC CONTROL	LS	LUMP SUM	\$ 10,000.00	\$ 10,000.00	
703.10000*	PERMANENT STRIPING	LS	LUMP SUM	\$ 100,000.00	\$ 100,000.00	

TOTAL \$ 2,285,766.00

CONTINGENCY (30%) \$ 685,729.80

TOTAL \$ 2,971,495.80

Appendix C. Traffic Signal Warrant Analysis

						C	ALC by					CAL	DATE	03/2	7/25	ē.
Sheridan CITY		4 DIST		ridan O	M.P.		CHK by					COUN.	T DATE	04/1	1/24	6
North-South Street Is street part of the stree Does street include run Does street appear as Distance to nearest sig Will a signal at this loca	al or sub a major r nal:	hway sys urban hig oute on a North	hways o an officia 10000	t serves a outside, e al street p ft	ntering, lan? South	rincipal ro or traver 10000	rsing a cit Yes ft	ietwork t ty?	for throu	igh traffic Yes			Lanes:	1 Yes	No	
East-West Street Is street part of the stre Does street include rur	al or sub	hway sys urban hig	hways o	t serves a outside, e	ntering,	rincipal ro	rsing a cit	etwork t			mph flow?		Lanes:	1 Yes	5. R	
Does street appear as Distance to nearest sig Will a signal at this loca	nal:	East	10000	ft	West	10000						1.0				
										•		als?			No	•
Is there an engineering Warrants 1, 2, or 3 duri Do traffic volumes on a	study th ing an av Saturda	at has 5- erage we y or Sund	year pro eekday? day mee	jected vo	No No ed 1000	at this inte • ) veh/hr f	ersection or at leas	that me at 5 hour	et one o s?	•		ais?			No	
Is there an engineering Warrants 1, 2, or 3 duri	study th ing an av Saturda	at has 5- erage we y or Sund ossing act	year pro eekday? day mee ross the	jected vo	ed 1000	at this inte • ) veh/hr fi ndway at t	or at leas	that me at 5 hour section?	et one o s?	or more o	f	No			No	8
Is there an engineering Warrants 1, 2, or 3 duri Do traffic volumes on a Is there a designated s	study th ing an av Saturda	at has 5- erage we y or Sund ossing act	year pro eekday? day mee ross the	jected vo	ed 1000	at this inte • • veh/hr fi • • on on a S	ersection or at leas this inters	that me at 5 hour section? trolled a	et one o s?	or more o	f No				No	
Is there an engineering Warrants 1, 2, or 3 duri Do traffic volumes on a Is there a designated s	study th ing an av Saturda	at has 5- erage we y or Sund ossing act g within *	year pro eekday? day mee ross the 140 feet	jected vo	ed 1000	at this inte ) veh/hr fi adway at t on on a S Volum	or at leas this inters TOP con	that me at 5 hour section? trolled a	et one o s?	or more o	f No No		1			
Is there an engineering Warrants 1, 2, or 3 duri Do traffic volumes on a Is there a designated s	study th ing an av Saturda chool cro e crossin	at has 5- erage we y or Sund ossing act g within 1	year pro eekday? day mee ross the 140 feet BOUND	jected vo	olumes a No ed 1000 olled roa	at this inte ) veh/hr fi dway at f on on a S Volum SOUTH	or at leas this inters TOP con ne Input 1 BOUND	that me at 5 hour section? trolled a Fable	et one o s? pproacl	or more o n? EASTB	f No No	No			BOUND	
Is there an engineering Warrants 1, 2, or 3 duri Do traffic volumes on a Is there a designated s Is there a railroad grad	study th ing an av Saturda	at has 5- erage we y or Sund ossing act g within *	year pro eekday? day mee ross the 140 feet	jected vo	ed 1000	at this inte ) veh/hr fi adway at t on on a S Volum	or at leas this inters TOP con	that me at 5 hour section? trolled a	et one o s?	or more o	f No No		Lt	WEST		Peds
Is there an engineering Warrants 1, 2, or 3 duri Do traffic volumes on a Is there a designated s Is there a railroad grade	study thing an av Saturda chool cro e crossin	at has 5- erage we y or Sund ossing act g within 1 northin Thru	year pro eekday? day mee ross the 140 feet BOUND Rt	jected vo	olumes a No ed 1000 olled roa ersection Lt	at this inte ) veh/hr fo dway at f on on a S Volum SOUTHI Thru	ersection or at leas this inters TOP con ne Input 1 BOUND Rt	that me at 5 hour section? trolled a Fable	et one o s? pproact	or more o n? EASTB Thru	f No No OUND Rt	No		Thru	30UND Rt	Peds
Is there an engineering Warrants 1, 2, or 3 duri Do traffic volumes on a Is there a designated s Is there a railroad grade 6:00-7:00 am 7:00-8:00 am	study thing an av	at has 5- erage we y or Sund ossing act g within 1 NORTHE Thru 24	year pro eekday? day mee ross the 140 feet BOUND Rt 2	jected vo	ed 1000 ed 1000 eled roa ersectio	at this inte ) veh/hr fi ndway at 1 on on a S Volum SOUTHI Thru 8	ersection or at leas this inters TOP con ne Input 1 BOUND Rt 102	that me at 5 hour section? trolled a Fable	et one o s? pproact	EASTB Thru 212	f No No OUND Rt	No	24	Thru 135	30UND Rt 4	Ped
Is there an engineering Warrants 1, 2, or 3 duri Do traffic volumes on a Is there a designated s Is there a railroad grad 6:00-7:00 am 7:00-8:00 am 8:00-9:00 am	study thing an av Saturda chool cro e crossin	at has 5- erage we y or Sund ossing act g within 1 northin Thru	year pro eekday? day mee ross the 140 feet BOUND Rt	jected vo	olumes a No ed 1000 olled roa ersection Lt	at this inte ) veh/hr fo dway at f on on a S Volum SOUTHI Thru	ersection or at leas this inters TOP con ne Input 1 BOUND Rt	that me at 5 hour section? trolled a Fable	et one o s? pproact	or more o n? EASTB Thru	f No No OUND Rt	No		Thru	30UND Rt	Ped
Is there an engineering Warrants 1, 2, or 3 duri Do traffic volumes on a Is there a designated s Is there a railroad grad 6:00-7:00 am 7:00-8:00 am 9:00-9:00 am	study thing an av	at has 5- erage we y or Sund ossing act g within 1 NORTHE Thru 24	year pro eekday? day mee ross the 140 feet BOUND Rt 2	jected vo	ed 1000 ed 1000 eled roa ersectio	at this inte ) veh/hr fi ndway at 1 on on a S Volum SOUTHI Thru 8	ersection or at leas this inters TOP con ne Input 1 BOUND Rt 102	that me at 5 hour section? trolled a Fable	et one o s? pproact	EASTB Thru 212	f No No OUND Rt	No	24	Thru 135	30UND Rt 4	Ped
Is there an engineering Warrants 1, 2, or 3 duri Do traffic volumes on a Is there a designated s Is there a railroad grade 6:00-7:00 am 7:00-8:00 am 9:00-10:00 am 10:00-11:00 am	study thing an av	at has 5- erage we y or Sund ossing act g within 1 NORTHE Thru 24	year pro eekday? day mee ross the 140 feet BOUND Rt 2	jected vo	ed 1000 ed 1000 eled roa ersectio	at this inte ) veh/hr fi ndway at 1 on on a S Volum SOUTHI Thru 8	ersection or at leas this inters TOP con ne Input 1 BOUND Rt 102	that me at 5 hour section? trolled a Fable	et one o s? pproact	EASTB Thru 212	f No No OUND Rt	No	24	Thru 135	30UND Rt 4	Peds
Is there an engineering Warrants 1, 2, or 3 duri Do traffic volumes on a Is there a designated s Is there a railroad grade 6:00-7:00 am 7:00-8:00 am 8:00-9:00 am 9:00-10:00 am 10:00-11:00 am 11:00-12:00 n	study thing an av	at has 5- erage we y or Sund ossing act g within 1 NORTHE Thru 24	year pro eekday? day mee ross the 140 feet BOUND Rt 2	jected vo	ed 1000 ed 1000 eled roa ersectio	at this inte ) veh/hr fi ndway at 1 on on a S Volum SOUTHI Thru 8	ersection or at leas this inters TOP con ne Input 1 BOUND Rt 102	that me at 5 hour section? trolled a Fable	et one o s? pproact	EASTB Thru 212	f No No OUND Rt	No	24	Thru 135	30UND Rt 4	Ped
Is there an engineering Warrants 1, 2, or 3 duri Do traffic volumes on a Is there a designated s Is there a railroad grad 6:00-7:00 am 7:00-8:00 am 9:00-10:00 am 9:00-10:00 am 11:00-12:00 n 12:00-12:00 pm	study thing an av	at has 5- erage we y or Sund ossing act g within 1 NORTHE Thru 24	year pro eekday? day mee ross the 140 feet BOUND Rt 2	jected vo	ed 1000 ed 1000 eled roa ersectio	at this inte ) veh/hr fi ndway at 1 on on a S Volum SOUTHI Thru 8	ersection or at leas this inters TOP con ne Input 1 BOUND Rt 102	that me at 5 hour section? trolled a Fable	et one o s? pproact	EASTB Thru 212	f No No OUND Rt	No	24	Thru 135	30UND Rt 4	Ped
Is there an engineering Warrants 1, 2, or 3 duri Do traffic volumes on a Is there a designated s Is there a railroad grad 6:00-7:00 am 7:00-8:00 am 8:00-9:00 am 9:00-10:00 am 11:00-11:00 pm 1:00-2:00 pm	study thing an av	at has 5- erage we y or Sund ossing act g within 1 NORTHE Thru 24	year pro eekday? day mee ross the 140 feet BOUND Rt 2	jected vo	ed 1000 ed 1000 eled roa ersectio	at this inte ) veh/hr fi ndway at 1 on on a S Volum SOUTHI Thru 8	ersection or at leas this inters TOP con ne Input 1 BOUND Rt 102	that me at 5 hour section? trolled a Fable	et one o s? pproact	EASTB Thru 212	f No No OUND Rt	No	24	Thru 135	30UND Rt 4	Ped
Is there an engineering Warrants 1, 2, or 3 duri Do traffic volumes on a Is there a designated s Is there a railroad grade 6:00-7:00 am 7:00-8:00 am 9:00-10:00 am 10:00-11:00 am 11:00-12:00 n 12:00-10:00 pm 1:00-2:00 pm 2:00-3:00 pm	study thing an av Saturda chool cro e crossin Lt 9 9	at has 5- rerage we y or Sund ossing acc g within 1 NORTH Thru 24 16	year pro sekday? day mee ross the 140 feet 80UND Rt 2 2	jected vo	lumes a No ed 1000 olled roa ersection Lt 5 8	oven/hr for dway at t on on a S Volum SOUTH Thru 8 5	arsection or at leas this inters TOP con ne Input 1 Rt 102 16	that me at 5 hour section? trolled a Fable	et one o s? pproact	EASTE Thru 212 174	f No No OUND Rt 5 4	No	24 29	Thru 135 141	30UND Rt 4 2	Peds
Is there an engineering Warrants 1, 2, or 3 duri Do traffic volumes on a Is there a designated s Is there a railroad grad 6:00-7:00 am 7:00-8:00 am 8:00-9:00 am 9:00-10:00 am 10:00-11:00 am 11:00-12:00 pm 1:00-2:00 pm 2:00-3:00 pm 3:00-4:00 pm	study thing an av Saturda chool cro e crossin Lt 9 9 9	NORTHI 24 16 13	year prosekday? day mee ross the 140 feet BOUND Rt 2 2 2 1	jected vo	No No ed 1000 elled road ersection 5 8	at this intervention of a South of the second secon	arsection or at leas this inters TOP con ne Input 1 BOUND Rt 102 16 102 16 32	that me at 5 hour section? trolled a Fable	s? pproacl	EASTE Thru 212 174 139	f No No OUND Rt 5 4	No	24 29 59	Thru 135 141 192	30UND Rt 4 2	Peds
Is there an engineering Warrants 1, 2, or 3 duri Do traffic volumes on a Is there a designated s Is there a railroad grade 6:00-7:00 am 7:00-8:00 am 9:00-10:00 am 10:00-11:00 am 11:00-12:00 n 12:00-11:00 pm 2:00-3:00 pm	study thing an av Saturda chool cro e crossin Lt 9 9	at has 5- rerage we y or Sund ossing acc g within 1 NORTH Thru 24 16	year pro sekday? day mee ross the 140 feet 80UND Rt 2 2	jected vo	lumes a No ed 1000 olled roa ersection Lt 5 8	oven/hr for dway at t on on a S Volum SOUTH Thru 8 5	arsection or at leas this inters TOP con ne Input 1 Rt 102 16	that me at 5 hour section? trolled a Fable	et one o s? pproact	EASTE Thru 212 174	f No No OUND Rt 5 4	No	24 29	Thru 135 141	30UND Rt 4 2	Ped

AVERAGE STOPPE	D TIME BY A	PPROAC	CΗ
	NB	SB	
6:00-7:00 am			
7:00-8:00 am	11	14	
8:00-9:00 am			
9:00-10:00 am			
10:00-11:00 am			
11:00-12:00 n		1	
12:00-1:00 pm		2018	
1:00-2:00 pm	5	3	
2:00-3:00 pm			
3:00-4:00 pm		22	
4:00-5:00 pm	13.3	14.3	
5:00-6:00 pm		0	
6:00-7:00 pm		0	

Form TR-01, Revised 3/1	0/15									Page 1 of 6
	v	YOMING				ANSPO		N		
						Calc by		Calc D	ate 0	3/27/25
Sherid	lan (	4	Sher	ridan		Chk by		Count D	ate 0	4/11/24
CITY	(	DIST	С	0						
Major Street	WY-	-335 / Coffe	en	Poste	d Approac	h Speed	55	mph	Lanes:	
Minor Street	Big H	orn Ave / U	S-87	Poste	d Approac	h Speed	55	mph	Lanes:	_1_
Critical speed of r										X
In built up are	ea of isolate	d communi	ty of <= 1(	0,000 pop	. with no e	existing sig	gnals			
WARRANT	1 - Eight-	Hour Veh	icular V	/olume						
Condition A -	Minimum V	ehicular Vo	olume		WAR	RANT SA	TISFIED	YES		
-	APPROACH LANES	WARRANT VOLUME	7 AM	8 AM	3 PM	4 PM	5 PM	N/A	N/A	N/A
Both Approaches Major Street	1	350	477	412	461	562	539	N/A	N/A	N/A
Highest Approach Minor Street	1	105	115	29	54	86	101	N/A	N/A	N/A
	Warrant Vo	olume Met?	Yes	No	No	No	No	No	No	No
Condition B - I	Interruptior	n of Contir	nuous Tra	affic	WAR	RANT SA	TISFIED	YES		NO X
	APPROACH LANES	WARRANT VOLUME	7 AM	8 AM	3 PM	4 PM	5 PM	N/A	N/A	N/A
Both Approaches Major Street	1	525	477	412	461	562	539	N/A	N/A	N/A
Highest Approach Minor Street	1	53	115	29	54	86	101	N/A	N/A	N/A
	Warrant Vo	olume Met?	No	No	No	Yes	Yes	No	No	No
Combination of	of Condition	ns "A" and	"В"			BOTH SA	TISFIED	YES		NOX
Condition "A"						A" SA	TISFIED	YES		NOX
	APPROACH LANES	WARRANT VOLUME	7 AM	8 AM	3 PM	4 PM	5 PM	N/A	N/A	N/A
Both Approaches Major Street	1	280	477	412	461	562	539	N/A	N/A	N/A
Highest Approach Minor Street	1	84	115	29	54	86	101	N/A	N/A	N/A
Minor Groot	Warrant Vo	olume Met?	Yes	No	No	Yes	Yes	No	No	No
Condition "B"	8					B" SA	TISFIED	YES		
	APPROACH LANES	WARRANT VOLUME	7 AM	8 AM	3 PM	4 PM	5 PM	N/A	N/A	N/A
Both Approaches Major Street	1	420	477	412	461	562	539	N/A	N/A	N/A
Highest Approach Minor Street	1	42	115	29	54	86	101	N/A	N/A	N/A
e	Warrant Vo	blume Met?	Yes	No	Yes	Yes	Yes	No	No	No

#### WYOMING DEPARTMENT OF TRANSPORTATION TRAFFIC SIGNAL WARRANTS

Page 2 of 6

Approach Lanes       7 AM       8 AM       3 PM       4 PM       5 PM       N/A       N/A         Approach Lanes       7 AM       8 AM       3 PM       4 PM       5 PM       N/A       N/A       N/A         A- Two or more       A       Both Approaches - Major Street       477       412       461       562       539       N/A       N/A       N/A         A- Two or more       B       Highest Approach - Minor Street       115       29       54       86       101       N/A       N/A       N/A         B - One       B       Highest Approach - Minor Street       115       29       54       86       101       N/A       N/A       N/A         Does plotted point fall above curve on Figure 4C-2?       No       No       No       No       No       No       Close       N/A       N/A         Refer to MUTCD Figure 4C-2       to determine if this warrant is satisfied       N/A       N/A       N/A       N/A         WARRANT 3 - Peak Hour       No       X       SATISFIED*       YES       No       X         . The total STOPPED delay experienced on one minor street approach controlled by a STOP sign equals or exceeds: 4 veh/hrs for a 1-lane approach; or 5 veh/hrs for a 2-lane approach,       FULFILLED       To							
A - Two or more       A       Both Approaches - Major Street       477       412       461       562       539       N/A       N/A       N/A         B - One       B       Highest Approach - Minor Street       115       29       54       86       101       N/A       N/A       N/A         Does plotted point fall above curve on Figure 4C-2?       No       No       No       No       Close       N/A       N/A       N/A         Refer to MUTCD Figure 4C-2 to determine if this warrant is satisfied       No       No       No       No       Close       N/A       N/A       N/A         WARRANT 3 - Peak Hour       Condition "A" (for the same 1 hour of an averge day)       SATISFIED*       YES       NO       X         . The total STOPPED delay experienced on one minor street approach controlled by a STOP sign equals       FULFILLED							
B       Highest Approach - Minor Street       115       29       54       86       101       N/A       N/A       N/A         Does plotted point fall above curve on Figure 4C-2?       No       No       No       No       No       Close       N/A       N/A       N/A         Refer to MUTCD Figure 4C-2 to determine if this warrant is satisfied       No       No       No       No       N/A       N/A       N/A         WARRANT 3 - Peak Hour       Condition "A"       (for the same 1 hour of an averge day)       SATISFIED*       YES       NO       X         . The total STOPPED delay experienced on one minor street approach controlled by a STOP sign equals       FULFILLED       FULFILLED							
Does plotted point fall above curve on Figure 4C-2?       No       No       No       No       Close       N/A       N/A         Refer to MUTCD Figure 4C-2 to determine if this warrant is satisfied       NA       N/A       N/A       N/A       N/A       N/A         WARRANT 3 - Peak Hour       Condition "A" (for the same 1 hour of an averge day)       SATISFIED*       YES       NO       X         . The total STOPPED delay experienced on one minor street approach controlled by a STOP sign equals       FULFILLED							
Refer to MUTCD Figure 4C-2 to determine if this warrant is satisfied         WARRANT 3 - Peak Hour         Condition "A" (for the same 1 hour of an averge day)         SATISFIED*       YES         NO       X         . The total STOPPED delay experienced on one minor street approach controlled by a STOP sign equals       FULFILLED							
WARRANT 3 - Peak Hour         Condition "A" (for the same 1 hour of an averge day)         SATISFIED*       YES         NO       X         . The total STOPPED delay experienced on one minor street approach controlled by a STOP sign equals       FULFILLED							
Condition "A" (for the same 1 hour of an averge day)       SATISFIED*       YES       NO       X         . The total STOPPED delay experienced on one minor street approach controlled by a STOP sign equals       FULFILLED							
Condition "A" (for the same 1 hour of an averge day)       SATISFIED*       YES       NO       X         . The total STOPPED delay experienced on one minor street approach controlled by a STOP sign equals       FULFILLED							
Condition "A" (for the same 1 hour of an averge day)       SATISFIED*       YES       NO       X         . The total STOPPED delay experienced on one minor street approach controlled by a STOP sign equals       FULFILLED							
. The total STOPPED delay experienced on one minor street approach controlled by a STOP sign equals FULFILLED							
or exceeds: 4 veh/hrs for a 1-lane approach; or 5 veh/hrs for a 2-lane approach,							
Ave Delay/Veh 14.3 Ave Delay/Veh 14 Ave Delay/Veh N/A AND Yes No X							
traffic or 150 vph for two moving lanes. (Actual volume 86, Hour Beginning 4 PM) AND Yes No X							
The total entering volume serviced during the hour equals or exceeds 650 vph for intersections with							
three approaches or 800 vph for intersections with four or more approaches. (Actual volume 680) Yes No X							
Condition "B" SATISFIED* YES NO X							
Approach Lanes 7 AM 8 AM 3 PM 4 PM 5 PM N/A N/A N/A							
A - Two or more A Both Approaches - Major Street 477 412 461 562 539 N/A N/A N/A							
B - One B Highest Approach - Minor Street 115 29 54 86 101 N/A N/A N/A							
Does plotted point fall above curve on Figure 4C-4? No No No No No No N/A N/A N/A							
Refer to MUTCD Figure 4C-4 to determine if this warrant is satisfied							
NARRANT 4 - Pedestrian Volume							
Posted speed of major street traffic > 35 mph? Yes 4-HOUR WARRANT SATISFIED YES NO X							
1-HOUR WARRANT SATISFIED YES NO X							
7 AM 8 AM 3 PM 4 PM 5 PM N/A N/A N/A							
Vehicular Volume, Major Street - Total Both Approaches <sup>a</sup> 477 412 461 562 539 N/A N/A N/A							
Total Pedestrians Crossing Major Street 0 0 0 0 0 0 N/A N/A N/A							
Does plotted point fall above curve on Figure 4C-6? No No No No No N/A N/A N/A							
Does plotted point fall above curve on Figure 4C-8? No No No No No No N/A N/A N/A							
Where there is a divided street having a median of sufficient width for pedestrians to wait, the requirement applies separately							
to each direction of vehicular traffic.							
IOTE: This warrant shall not be applied at locations where the distance to the nearest traffic control signal along the major street is less than 300 ft., unless the proposed traffic control signal will not restrict the progressive movement of traffic.							
WARRANT 5 - School Crossing							
Not Applicable X							
See School Crossing Warrant Sheet							

\*Pedestrain volume were not collected

orm TR-01, Revised 3/10/15

T SIGNAL 000 ft W ONE DIRECTIO NOT PROVIDE VIDE THE NECE AFFIC CONTRO SATISF	E OR ESSARY DL	FULF Yes X Yes	ILLED			
DNE DIRECTIO	IN, E ESSARY DL	Yes				
NOT PROVIDE	E OR ESSARY DL	<u> </u>				
NOT PROVIDE	E OR ESSARY DL	<u> </u>				
IDE THE NECE	OR ESSARY DL	<u> </u>				
AFFIC CONTRC	DL	Yes				
		Yes				
SATISF		Yes	No.			
SATISF			NO			
(	IED	YES	] NO			
		FULF	FILLED			
	AND	Yes	No )			
	AND	Yes X				
	FIC		No X			
SATISFIED AT WARRANT 1B - INTERRUPTION OF CONTINUOUS TRAFFIC 80% WARRANT 4 - PEDESTRIAN VOLUME						
		FULF	ILLED			
		FULF	-ILLED			
MEET		Yes	No			
10223316	OR					
OUR		Yes	No			
MAJOR	MINO	R				
X		]				
B. IT INCLUDES RURAL OR SUBURBAN HIGHWAYS OUTSIDE, ENTERING, OR TRAVERSING A CITY OR OR						
C. IT APPEARS AS A MAJOR ROUTE ON AN OFFICIAL PLAN, SUCH AS A MAJOR STREET PLAN IN AN URBAN AREA TRAFFIC AND TRANSPORTATION STUDY.						
FOR BOTH S	STREETS	Yes X	No			
	SATISF MEET OUR MAJOR X X FOR BOTH S	SATISFIED SATISFIED MEET OR MAJOR MINC X X X X X X X X X X X X X X X X X X X	LUME Yes INUOUS TRAFFIC Yes Yes SATISFIED YES FULF MEET OR OUR Yes MAJOR MINOR X X X			

Form TR-01, Revised 3/10/15

#### Volumes Used for This Signal Warrant Study

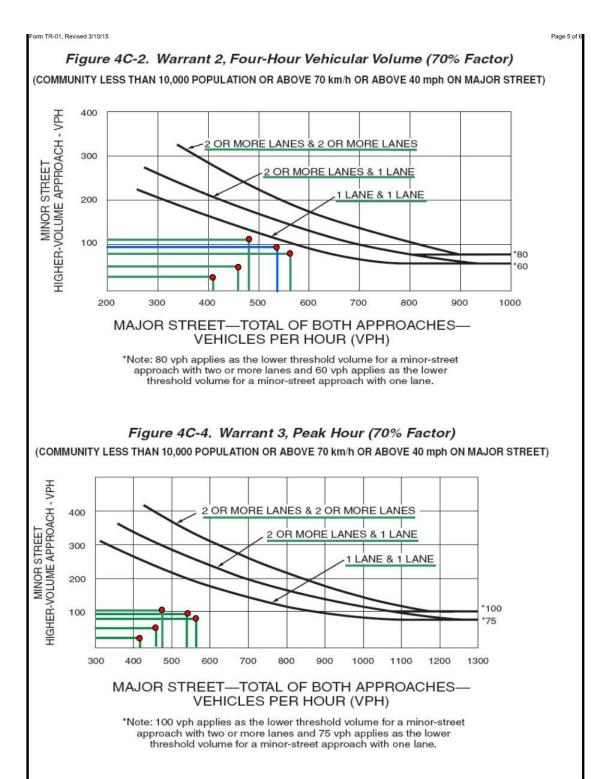
	Major Street Totals (Both Approaches)	Minor Street Totals (Highest Approach)	Pedestrians Across Major Street
6:00-7:00 am	1971 - 1971 - 1974 - 19		
7:00-8:00 am	477	115	0
8:00-9:00 am	412	29	0
9:00-10:00 am			
10:00-11:00 am	20		
11:00-12:00 n			
12:00-1:00 pm			
1:00-2:00 pm			
2:00-3:00 pm			
3:00-4:00 pm	461	54	0
4:00-5:00 pm	562	86	0
5:00-6:00 pm	539	101	0
6:00-7:00 pm			

#### AVERAGE STOPPED TIME BY APPROACH FOR MINOR STREET NB SB

		NB	SB
6:0	00-7:00 am		
7:0	0-8:00 am	11	14
8:0	0-9:00 am		
9:0	0-10:00 am		
10:0	0-11:00 am		
11:	00-12:00 n		
12:	00-1:00 pm		
1:0	00-2:00 pm		
2:0	00-3:00 pm		
3:0	00-4:00 pm		
4:0	00-5:00 pm	13.3	14.3
5:0	00-6:00 pm		
6:0	00-7:00 pm		

\*Pedestrain volume were not collected

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Appendix D.
Public Involvement Summaries

#### Public Meeting #1

#### Overview

An online, self-guided meeting was used to collect preliminary comments from the public and stakeholders. This online meeting was located at <u>www.US87IntersectionStudy.com</u>. The online meeting included a comment period from April 1 through April 30, 2024.

#### Promotions

The online meeting was promoted through a variety of means in order to reach many members of the public.

#### Newspaper Advertisement and Media Release

The online meeting was promoted in the Sheridan Press on April 4 and April 24, 2024.

April 4 - <u>https://www.thesheridanpress.com/news/local/wydot-launches-public-input-for-</u> big-horn-y-intersection-study/article\_25187d26-f129-11ee-b0a0-0f817db8c2f6.html

April 24 - <u>https://www.thesheridanpress.com/news/local/time-running-out-to-participate-in-big-horn-y-intersection-study/article\_aaecc47c-00e5-11ef-a550-8bf5f6a6852b.html</u>

#### <u>Radio</u>

WYDOT participated in a radio interview to promote the online meeting. The radio interview took place during the Daily Pulse talk show on KROE (930 AM and 103.9 FM) on April 15 at 9:30 a.m.

#### Social Media

Facebook was utilized to promote the online meeting through WYDOT District 4 - Northeast Wyoming's page. A total of three posts were made on April 1, April 16, and April 30, 2024.







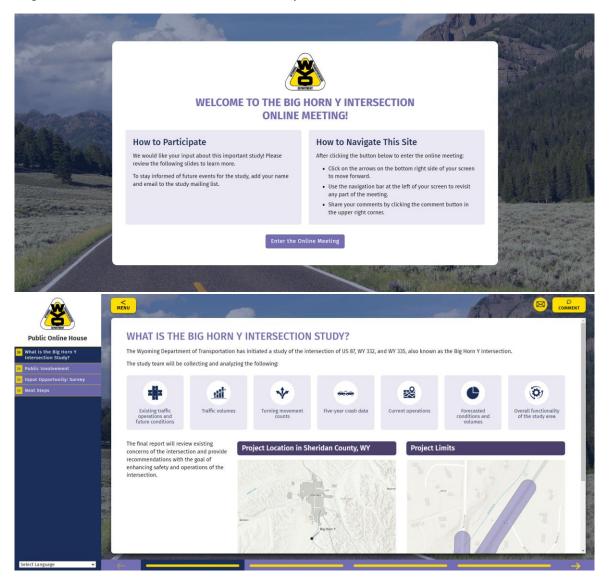
#### **QR** Code Poster

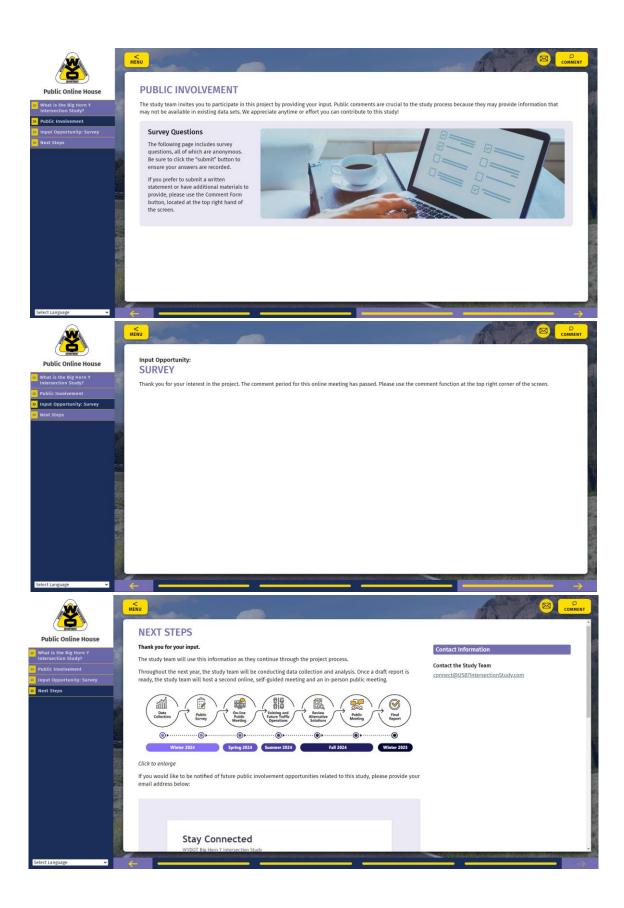
A poster with a QR code leading directly to the online meeting was placed at establishments nearby to the intersection. Poster locations include:

- Big Horn Y gas station
- Big Horn Post Office
- Last Chance Bar
- Big Horn Mercantile Pizza
- Starbucks

#### **Online Meeting Content**

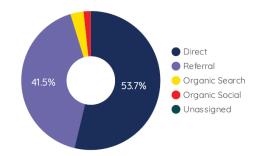
The online meeting was an interactive, self-guided website that allowed users to click through information and answer a series of questions.





#### **Online Meeting Website Analytics**

<b>Big Horn \</b> Web Analy		(	Mar 29, 2024 - Apr 30, 2024 👻	
Total users 575	New users 575	Engaged sessions 294	Views 711	Average Session Duration 00:00:41
Sessions by Acq	uisition Type		sers per Day	



Engaged sessions -

98

7

3

2

2

1

1 - 10 / 10

 $\langle \rangle$ 

**Referrals & Social Media Sources** 

Session source

dot.state.wy.us

Im.facebook.com

l.facebook.com

sheridanwyoming.com

thesheridanpress.com

app.constantcontact.c... 1

sheridanmedia.com

1.

2.

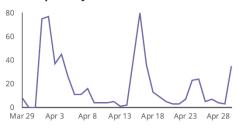
3.

4.

5.

6.

7.



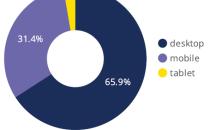
----- Total users

#### Sessions by Regional Cities (WY)

	City	Engaged se	Total users
1.	Sheridan	101	173
2.	Cheyenne	32	43
3.	Story	10	16
4.	Buffalo	5	7
5.	Laramie	3	4

1 - 5 / 20 < >

**Sessions by Device Type** 



For a comprehensive glossary on Google Analytics definitions, <u>refer to this guide</u>.

HDR traffic filtered from results.

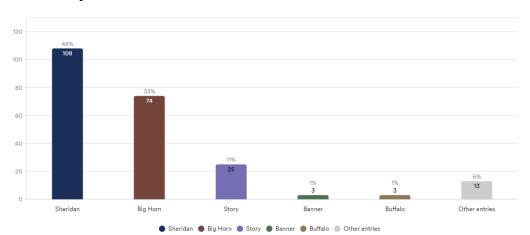
#### Survey Themes

In total, 230 surveys were completed as part of the online meeting. The table below details common comment themes.

Comment Theme	# of Comments
Pro-roundabout	23
Anti-roundabout	4
Speeds	120
Issues with cars yielding/entering/merging into traffic	155
High traffic/long wait times/difficulty crossing/using roadway	59
Wildlife	5
Bike/pedestrian usage	16
Safety	115
Pro-stoplight	17
Anti-stoplight	3
Pro-four-way-stop	5
Anti-four-way-stop	1

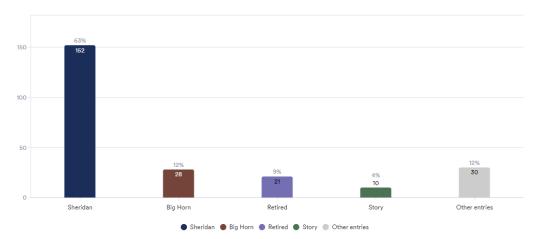
## Online Meeting Survey Questions and Answers

## Where do you live?



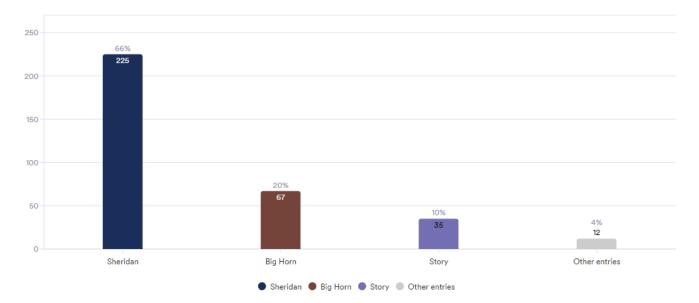
Other entries:			
Between Sheridan and Big Horn	Beaver Creek R	oad	7 Keahey Ln
1 mile south of the Y	Cross Creek Court		Swaim Rd
3 miles south of Sheridan off	intersection (Across the street		Between Sheridan and the
US 87	from the Gas Station)		intersection
Rural subdivision on Hwy 87	Just east of the Bighorn Y		In between the Y & Big Horn in
south of the Y.	junction		Knode Ranch
At the Bighorn Y	Powder Horn		Ranchester
Cross Creek Estates		South of Sherida	an near the Y

#### Where do you work?

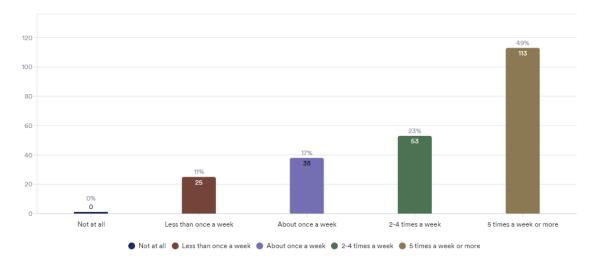


Other entries:			
Banner Sheridan County Montana			
From home	Powder River	Johnson County	

## Where do you shop, engage in leisure activities, and/or attend medical appointments?

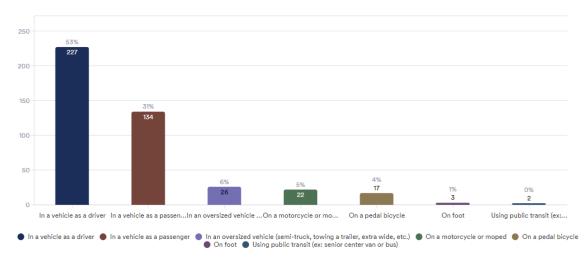


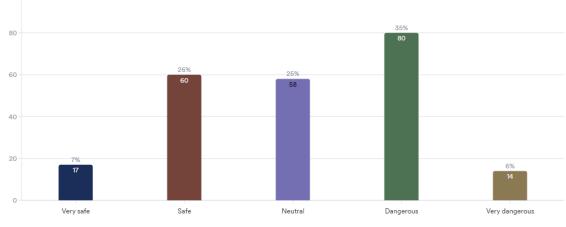
Other entries:		
Forest	Bighorn National Forest	Casper
Buffalo	Banner	Sheridan County
Billings	Outside Sheridan County	Wyarno
Gillette		



#### How often do you travel through the intersection?

How do you travel through the intersection? Select as many as apply.





How safe do you feel traveling through this intersection?



If you have abaamind any o		
	afety issues at the intersecti	
Ice Build up is always very bad	Shrubs at gas station block view	Every time I drive through that
at the Turn just after	when trying to turn off of Big	intersection there is all kinds of
intersection heading to story.	Horn Ave or from gas station.	safety issues.
Vehicles going to and from Big	Think that left turns from the	As you exit Big Horn Ave (WY
Horn can make it very difficult	business at the north end of the	332) and enter the "Y", the
for vehicles trying to cross the	parking area at business is very	intersection veers sharply right
highway because there are so	dangerous. Also being an older	towards WY335. Thus at the
many of them at busy times of	person having 2 lanes of traffic	stop sign, one is forced to
the day. There aren't very many	is confusing and hard to see.	severely crane your neck to
safe breaks in the traffic to turn	Also everyone goes over the	ascertain if oncoming traffic is
or cross. A slower speed limit	speed limit and so it needs to	speeding your way. I've had two
though here, combined with a	have people slow down. Do not	near catastrophic accidents in
traffic light would definitely	think there should be a yield	the past 9 months.
help make it safer.	anywhere in a separate lane.	
	Have people stop.	
When pulling a trailer, there is	Cars rushing through stop signs	I have been in an accident at this
not enough of an on-ramp to get	on both sides. Icy roads leading	intersection because a vehicle
a straight view from behind you	to inability to stop. Poor	did not stop. While driving
to get out in the traffic	turning lanes causing traffic	through it now I drive very
5	backup. Speeding.	carefully and slowly.
people coming from Story will	Accidents, close calls, failures	cars fail to yeld
NOT YIELD!	to yield	
Driving north on 87 and merging	Traffic does not slow down	Turning traffic onto side
Driving north on 87 and merging onto 335 is difficult due to the	,	Turning traffic onto side highways, speed of traffic
onto 335 is difficult due to the	Traffic does not slow down coming from the south that are	highways, speed of traffic
onto 335 is difficult due to the angle necessary to look south	Traffic does not slow down coming from the south that are to yield to Big Horn traffic. I	-
onto 335 is difficult due to the	Traffic does not slow down coming from the south that are to yield to Big Horn traffic. I have seen many near missed.	highways, speed of traffic coming from the Story intersection
onto 335 is difficult due to the angle necessary to look south for traffic you need to yield to. Other drivers' behavior either	Traffic does not slow down coming from the south that are to yield to Big Horn traffic. I have seen many near missed. Traffic traveling north on 87 not	highways, speed of traffic coming from the Story
onto 335 is difficult due to the angle necessary to look south for traffic you need to yield to. Other drivers' behavior either coming into the roadway	Traffic does not slow down coming from the south that are to yield to Big Horn traffic. I have seen many near missed. Traffic traveling north on 87 not yielding when merging. Traffic	highways, speed of traffic coming from the Story intersection YES! When driving in from Story,
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If you have observed any safety issues at the intersection, please describe below.

When traveling on 87 from Story Wy and merging on to 87 to Sheridan, people often get confused and take a left to the intersection of 335 332 and 87. At this point as opposed to continuing along to 332 or make the left 335 to Big Horn they take and go right on 87 toward Sheridan. This has resulted in numerous times I've almost been in a automobile accident, as they try to speed past the merging traffic from Story. There should be no right turn at that stop sign at the intersection of 335 332 and 87, you should have to make a left to Big Horn, Powderhorn or continue across to 332 to Sheridan or the entrance to the Y gas station at Big Horn. The second point I would like to make is with regards to traffic coming on to 87 from the Y gas station making a left from the gas station and heading toward Sheridan. There should be a sign upon exiting the gas station indicating no left turn. The traffic should have to exit out the back entrance of the Y gas station on to 332 thsn make a left turn coming to the intersection of 332, 335 and then make a left on three thirty 335 to merge into 87 to Sheridan. The third point I wish to address is traffic heading down 87 toward Big Horn Powderhorn and Story. As you prepare to make a left to continue on 87 toward Story the merging lane needs to be longer to allow for safe merging. The road markings now indicates that the merging only begins once you reach the Y gas station. This is extremely hazardous with traffic traveling at the speed of 55 miles an hour it need to start for merging at a longer distance for traffic safety. The speed on either side of the Y gas station and coming for Story should be reduced to 45 miles an hour. As we all know to well 90% of the people traveling at this intersection are already 10 to 15 mph beyond the posted speed limit let's try and slow everyone down.

Yes! When young people are out with bikes or walking people in cars zoo past them at high speeds and very close to them. There is absolutely nowhere safe for a person to cross this road area safely on foot or bike. People in cars are going 60 + miles an hour all through the day and night. I have also seen several "near misses" as cars pull out in front of cars that are moving through the intersection at high speeds. When I come from the S and want to proceed N on Big Horn Avenue, I must turn left and stop at a stop sign. If there are cars behind me that want to continue S and go to Sheridan on Coffeen they have to slow down while I brake and turn left. Some are impatient. It seems that it would be safer to have two lanes from the S, one that turns left and one that continues around the curve to the N.

I was a passenger in a vehicle involved in an accident at this intersection. A truck went through the stop sign at the end of Big Horn Ave and we hit him going 55 MPH. I feel the speed limit through the intersection is too high. Additionally, it is very difficult to enter the highway from the Big Horn Y Store. It's difficult to see and the traffic is coming from too many different areas.

I live in BH and travel into Sheridan by continuing onto Coffeen or by turning left onto Girls' School Road. Additionally, I frequent the gas station by turning in off Girls School Rd if I'm coming from the south. My sister also lives off HW87, towards Story. I find the turn (taking a right) at the Y when coming from the south to be sharp and not a level grade. Also, there is not much time to turn because traffic from behind is traveling at 55 mph. Additionally, when coming from the north, traffic can get backed up between traffic turning R into the gas station or L on to HW87. The addition of the lit stop sign on Girls' School Rd/Big Horn Ave. is nice but does not seem to improved or hindered traffic. Maybe a R turn lane could be added? The traffic lane can flow into 3 directions from this stop sign point. Overall, I don't see a huge need to make significant changes at this point. Nonetheless, improvements can by made. Additionally, as you likely know, deer are thick through this area so by adding lanes, safely for all might be improved. Lastly, having a walking path through the area would be amazing, especially with Little Goose Park and Powder Horn nearby. Although, I'm not sure adding lights would be helpful to any traveling party.

Tryin to cross especially at high	No, at times it's a busy	Drivers coming in from Story (or
traffic time is extremely hard.	intersection, but it moves	south) do NOT yield, they barely

Either you wait for a long period	quickly. Cars merging from	slow down. It is very difficult to
of time or you have to dart to	Story always seem to travel	look left over you shoulder and
cross or make a left had turn	below the 55 mph speed limit	see if any traffic is coming from
coming from any direction	into town, leading to some cars	Big Horn so many of them just
	passing where allowed.	plow on thru.
I have witnessed several severe	Individuals from Story do not	People turning in front of you or
accidents, one involving a	yield. Individuals entering the	crossing when you are going 55
school bus, and know of other	turning lane in front of the Y	mph. People turning into the
accidents second hand since	store to turn left towards Story,	gas station and pulling out
that intersection was re-	enter it way to quickly and slow	where there is a blind spot on
designed. Speed is a factor in	traffic trying to enter the lane	the south end. People merging
the severity of the accidents	from Big Horn to go into the Y	from the story way not knowing
but not the sole cause.	store.	what yield means.
speed limit too high	The merge lane	High speed
Multiple near misses from	Dangerous merger from story.	Some drivers fail to stop at the
people turning from the Y gas	No stopping from Bighorn	stop signs. Mergers onto Hwy 87
station as well as crossing	Avenue. To high of speeds and	without paying attention to
Hwy335	merging traffic from Bighorn Y.	oncoming traffic
Cars trying to cross the highway	Multiple wrecks, congested	It is confusing & often the cars
have difficulty at peak traffic	intersection & confusing to	that should yield do not.
times and have limited visibility	those that are new to the area	
I have observed multiple vehicle	People coming and going from	The speed limit is too high for
collisions and "close calls" as	every direction. Not to mention	the intersection. In addition the
well as traffic not adhering to	people pulling in/out of the Y	yield sign from Story is
the posted stop signs and speed	gas station. It's a very confusing	ineffective and drivers never
limits. The blind spots created	and busy intersection and you	yield. People turning out of the
by the landscaping at the gas	really have to be focused on	gas station at the Y also don't
station limits visibility.	what you are doing.	honor the speed limit and that
station times visibility.	what you are doing.	area is dangerous for anyone
needs blowing through the	Heavy traffic a lat of growth in	driving on the road.
people blowing through the	Heavy traffic, a lot of growth in	Multiple near misses from
intersection and visibility	the last few years.	people turning from the Y gas
coming from story		station as well as crossing
		Hwy335
I have witnessed and been	The vehicles that merge from	People texting and not paying
involved in countless near	Story going north sometimes	attention to people turning into
accidents. This intersection is	forget that the main road has	the store at the Y, or trying to
terrifying.	right of way. It isn't very often.	race the merging traffic
The only thing I noticed was	No signal lights, speeding,	It is very difficult for traffic
turning right toward Big Horn	pulling out from the c-store into	coming from Story to cross the
after coming down the hill. No	traffic, unsafe passing, doing a	intersection to proceed to
vehicles behind me and none	hope and go to cross s/n or n/s.	Sheridan on Big Horn Avenue
coming from Sheridan or waiting	This really needs a 4 way stop	and vice versa. The oncoming
at the stop sign across the road.	light. Heavy bike traffic, lots of	traffic is also traveling so fast
After turning, I looked in the	young people walking to the c-	that it makes the intersection
rearview mirror while getting to	store, not to mention the	very dangerous. There should
the speed limit and there was a	farming equipmentnot just	definitely be reduced speeds
car RIGHT behind me. So close	us. Bushes and signs on the	and a stop light at this

	(1) ( 225 )		
that I couldn't see the front	north side of 335 requires	intersection to make it safer.	
bumper. At that point I was	pulling out into the intersection	The staff inside the Big Horn Y	
nearly to the speed limit. Not	to see if any traffic from Big	gas station are always	
sure if the vehicle was speeding	Horn direction.	commenting, "Did you see that?	
or if it's an issue with the speed		Wow! That was a close one!"	
limit itself.		They witness so many potential	
		accidents.	
Too Many drivers do not know	Vehicles entering N/B through	Traffic merging onto	
how to use a turning lane. the	the Yield sign sometimes travel	northbound 87 at this	
most dangerous is drivers	at higher than a safe speed.	intersection do not yield to	
coming from Big Horn turning	There is some sight line	traffic already traveling	
left into the gas station. 55 MPH	constraint for N/B through	northbound on WY 335. This can	
IS WAY TOO FAST AND THE	traffic from the Yield approach,	be an unsafe merge point. I do	
CAUSE OF MOST ISSUES. SLOW	as well as some conflict with	not see any issues with the turn	
THE TRAFFIC DOWN.	vehicles entering the highway	from 335 to Big Horn Avenue.	
THE TRAFFIC DOWN.	<b>c c</b> ,	from 555 to big from Avenue.	
	from the gas station to go		
Decele traine to react of	north.		
People trying to merge from	Too much traffic coming from	People pulling out in front of	
story too quickly	all directions, people	traffic and not following yield	
	disregarding stop signs	sign	
Poor use of yield sign and high	Heading into Sheridan from	I live off of Maverick Lane.	
speeds when coming down from	Story, merging is an issue with	Weekly I have issues with	
Story to the intersection. This	no merge lane. A further merge	vehicles merging onto Coffeen	
can he highly congested at	lane would make that feel safer	in an unsafe manner. High	
times. The approach in and out	with traffic from bighorn and	speeds, no yielding to right of	
of the Y Gas station is also not	the gas station and the higher	way traffic. Also it is very	
ideal, causing some congestion	deer population in that area	difficult to see these vehicles	
and hindering the flow of traffic		coming around the bend before	
as well.		I pull out onto Coffeen.	
Speed limit not enforced	Vehicles constantly pull out in	People driving very fast towards	
	front of you.	Bighorn	
Merging to the north coming	People coming from Story do	Speed of vehicles going to fast.	
from Story and pulling out of	not merge properly. It is	Also people coming out of the	
the gas station ends up with a	difficult to cross or enter 87	gas station to quickly	
near miss a lot of the time.	during peak use times.	3	
Even though it's not a 4-way	Cars will cross that intersection	I have seen a few accidents that	
stop drivers act like it is.	without gauging how fast the	have happened in that	
Indecision and uncertainty swirl	traffic on Coffeen is coming and	intersection. Sometimes it can	
about in the mind, causing a	there's often either slamming on	be very hard to cross within a	
, .	brakes from the Coffeen traffic	reasonable timeframe. Also,	
lapse in cognitive decision-		-	
making which in turn, brings	or a super-speed up from the	when folks are turning into the	
about close calls with another	cross-traffic to get across.	Big Horn Y it can be a little	
vehicle.		sketchy.	
, ,	ross from the store (when headed		
lane to merge is a nightmare. People don't yield. They speed up and try to merge without having to			
yield. I have seen several near-miss accidents and many people slamming in breaks in the lane of			
travel to avoid "merging" traffic. Also, people taking a left turn out of the store (headed toward			
Sheridan) take risks and pull in front of oncoming cars. I have seen many more issues headed toward			

Sheridan than headed toward Big Horn for some reason. As for the speed, I feel 55 is too fast. During winter, this route is routinely iced over, and there are many young drivers headed to school tailgating people and speeding.

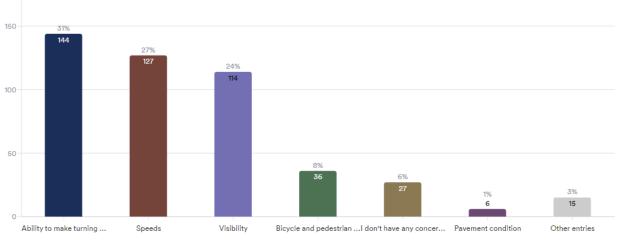
people and speeding.		
Traffic entering Coffeen Avenue from Highway 87 Very seldom yields. Also the traffic at this intersection is very heavy during lunchtime and vehicles are constantly pulling out of the gas station without any regard to traffic on the road.	People trying to cross the highway while in a vehicle, on a bike, or on foot, often have trouble crossing when the person on the opposite side is attempting to turn against traffic and merge onto the highway.	When pulling out of Maverick road onto 87 headed to Sheridan the vehicles coming from highway 87 thru the Y seem to be flying and come upon you quick. Maybe it's because you can't see them well when looking because of the bend in the road
Powder Horn people are the worst drivers out in that area. God forbid they are late for Tee Time.	Many cars do not yield going north from the Story direction. It is a race to see who gets to the single lane first.	I only travel through this intersection on Sundays and never have an issue. I travel south from Sheridan and turn right up Big Horn Avenue.
People in a hurry trying to cross from 332 to 87. People not looking as they merge coming from Story. Too many people coming in and out of the gas station in many different approaches. Traffic is the worst in the morning and evening.	The intersection would be substantially safer if the posted speed limit was around 35 m.p.h. through the intersection. At peak traffic times, vehicle speed currently through the intersection has a higher hazard.	everyone at the intersection look somewhat panicked, as they attempt to look both waysespecially those coming from Story trying to merge/turn onto US 87 heading north.
People driving well below posted speed limit often creates a bottleneck n doesn't allow story traffic to merge properly. The lack of turn lanes from Sheridan to big horn is troublesome. Put in multiple left n right hand turn lanes into driveways, county roads and subdivisions would greatly improve traffic flow and overall safety. Add a two lane roundabout at BH Y - Problems solved.	1- Drivers using the Y from story. Do not slow down or obey the yield sign. Drivers using Maverick RD turning right onto the 87 cannot see when another vehicle merges off the story Y onto the 87. Then of course they ""Run up on your rear"" as if you've pulled out in front of their vehicle. 2- Speed should be addressed with the uptick in traffic at the gas station. Horns honking at other drivers because they've been cutoff has been on the rise in the past to years.	It is difficult to see traffic coming and up and down cofeen (coming from sheridan to bighorn and from bighorn to sheridan) A traffic circle would be a great addition to this high congestion area with out causing a realignment. Also the short merge lane coming from story heading to sheridan makes it hard to guage traffic speed. this could also get eliminated with a traffic circle.
Cars moving too slowly when pulling into traffic on the highway, especially when turning out of the gas station.	Vehicles attempting to merge onto Coffeen travel way to fast. Often times they don't yield to coffeen traffic	people blow the stop signs coming off Girl school road and or try to beat gaps in traffic and cut people off forcing others to slam on brakes

Speed differential on the merge	ntial on the merge The turning lanes are Sometimes merging onto			
lane with people turning into	dangerous. The		Coffeen from US 87 can be	
Maverick Road.	too high for this section		tricky.	
An instance of when it is dangero	-		out of the Big Horn Y gas station	
(north & south) are in the turn la			les traveling 55 and they pull out	
cannot see around them. I find t			regards to traffic coming.	
heading north trying to turn left o		-	oots exiting the gas station. The	
Ave - when I'm practically face to	-		pens coming off of Girls school	
in the opposite turn lane, I canno			est or North at stop sign.	
them.			1 5	
Cars coming from Story do not	Traffic coming f	rom Story does	Speeding thru intersection;	
obey the yeild sign. The use it	not yield		traffic merging from Story	
as a merge lane.			failing to yield.	
It is only busy in the mornings.	Drivers coming f	rom Banner	Northbound drivers from Hwy 87	
If speeds were slower, it would	can't see oncom	ing traffic from	not merging/yielding to	
be fine.	Big Horn easily.		Northbound drivers on Hwy 335.	
Low speed traffic coming out of	The entrance to	-	Cars turning in front of you and	
the gas station pulling out right	Junction need to	•	causing you to slow down which	
in front of 55mph traffic on Hwy	be on Big Horn I	Road, the	is fine when the roads are nice	
87, especially north bound	turning lanes ne	-	but not ok if the roads are	
traffic on Hwy87.	The biggest issu	e is the access	slippery.	
	to the business.			
Congestion at the gas station,	No observed saf	•	People driving at highway	
limited view from cars going	time but if the plan is to make		speeds on Coffeen Avenue with	
across bighorn ave to story,	it a 4 lane road, i would		no apparent recognition of the	
merging cars from story not	definitely want to see a traffic		intersection.	
yielding	light.			
Failure to yield	Cars merging not giving the		Needs better pedestrian	
	right of way. Line of sight when coming off of Big Horn Ave.		pathways. Bicycle riders use it	
	-	-	too	
Vehicles pull out from both the	Vehicles pulling	-	Should be a turn lane for those	
convenient store and the	station going and heading into		coming from the south	
highway stop signs without	Sheridan can be a concern at times when I'm merging on to		11 making the turn onto the	
judging distance. I frequently			highway to Big Horn or Big Horn	
have to slow way down from the speed limit to not hit them.	87 sometimes.		Ave.	
The traffic has increased as	I know 4 people that have been		Traffic is often exceeding speed	
Powder Horn and other housing	killed on the damn road to big		limits, which makes it difficult	
developments have grown. Also,	horn. Too many idiots pulling in		to judge what one should do.	
with all the new developments	front of Semi trucks. No where		Approaching the intersection	
off Big Horn Avenue, it's going	to pass. Idiots riding bicycles.		from BigHorn Ave, the traffic	
to increase more. It's very	This road is a disaster and we		on the right, or Southside are in	
difficult to get across it these	all know it.		my blind side, and hard to see.	
days.			,	
Tough to merge going north	Visibility and spe	eed of traffic	Too many intersection and	
	, -r		access's in a confined area.	
The most dangerous aspect is	Yes, I have observed multiple		Traffic is Traveling at high rates	
the traffic going in and out of	accidents. We are through that		of speed. Traffic pattern is	

the gas station/store just north of the intersection. There are just to many traffic variable occurring in one intersection area. Secondly, the four-way intersection is deceptive with the south road toward Story coming in at an angle which makes it hard to predict traffic entering the intersection. This is especially true when traveling north from Story and merging onto Coffeen toward Sheridan.	intersection daily and sometimes multiple times a day. There is too much traffic going in different directions, at widely varying speeds, and multiple entry points. To watch for cross traffic along with all the traffic that enters and exits the gas station at different points leaves a lots of opportunity for accidents and collisions.	heavy during rush hours. Multiple directional turns happen at that intersection. Traffic lines up at stop signs. Plus cars entering traffic from the Big Horn Y gas station. There needs to be a stop light in this intersection safely directing traffic!
I've seen several wrecks involving construction/mechanical trucks/vans coming off Big Horn Ave & colliding with vehicles on Coffeen. I feel a light is needed @ that intersection.	Cars do not yield coming from Story\Banner. Cars slow down to look as they pass the gas station causing congestion in the area and a slow down of traffic.	Traffic from story usually do not yield going through the yield sign always trying to beat the big horn oncoming traffic I have had to almost stop to yield from speeding traffic heading north bound!
Merging traffic concerns at the intersection of 87/335. Visibility concerns pulling out of the Big Horn Y store.	When making a right turn off Girl school road to 335, visibility to the left is obstructed by objects in front of the convenience and gas station making it risky to maintain entrance to traffic from 335 from Sheridan.	Cars are always pulling out in front of traffic. Cars heading north from Story are traveling too fast 40-55 mph through the yield sign.
Merging lane when coming from Story to Sheridan should be longer. Turning lane when traveling from Sheridan to Story should be for South bound traffic only (Access to the gas station for North bound should use the entrance off of Big Horn Ave.)	Only those coming in from south 87 going straight across have a odd merge/non merge to a stop sign, yet those continuing in to town down have to slow down one bit. only to merge. it creates an odd conundrum of using your blinker or not, when you technically arent turning.	vehicles leaving the business located at the Y turning into traffic at the same time heavy traffic coming and going on the 3 hiways. the speed limit is too high for such a busy area at certain times of the day or slick roads.
It's tough to turn left from WY 332 onto 87 towards Sheridan. There is poor visibility, people don't utilize turn signals effectively, and the traffic flows are high enough that it frequently takes quite a while to have a reasonably safe opening in traffic. A roundabout would solve this intersection	Drivers coming down the small hill on Big Horn Ave to stop at the intersection still have speed, and barely stop to roll onto the highway. With that, they struggle to get speed up to that of the Highway. Also, those coming from story and use the yield lane to merge have a short yield lane before they are in front of a car already heading to	Failure to yield right-of-way by vehicles merging from 87 onto south-bound Coffeen. Failure of vehicles to stop at Big Horn Ave. stop signs, or pull out too closely in front of Coffeen/SH335 traffic. Poor visibility to the south from Big Horn Ave due to sign base and landscaping of the Big Horn Y store.

and I would love to see one	Sheridan. Not much room for	
installed here.	those who aren't paying	
	attention just to get onto the	
	roadway.	
We try to be mindful of the	Difficulty in crossing Hwy 335	People going north using the
merging traffic coming from	from either Hwy 332 or 87 due	free right-hand lane from US 87
Story and Big Horn depending on	to traffic speeds and volume on	don't yield. It is quite a head-
the direction we are heading.	Hwy 335.	turn to visually yield so people
Drivers do not always pay		tend to try and use the mirror
attention and yield when		with limited effectiveness.
needed.		
People pulling out in front of	Merging northbound is always	Turn lane paint markings are
other cars	iffy no matter which route you	consistently poor to see
	are on.	
Multiple near miss car crashes	People will pull out in front of	Most of the safety issues that I
due to lack of visibility of on	oncoming traffic from big horn	have observed were other
coming traffic	avenue	vehicles failing to use turn
		signals.
mixed modal traffic creates	I have observed several crashes	If you are coming on US 87 from
dangerous situations. I've	shortly after and numerous near	the southerly direction, say
witnessed a near miss with a	misses at the intersection.	from Story, Banner or Buffalo,
bicyclist, a tractor towing an	Traffic seems to be increasing	it's very unsafe and difficult to
implement, a passenger car, a	over the years. I have also	merge with traffic coming from
motorcycle, and a truck with a	observed drivers cutting the	3 sources; from Bighorn, from
belly dump all at the same	corner into oncoming traffic	Bighorn Avenue and from the
location going in opposite	and/or cutting off drivers	Bighorn Y gas station. As you
directions. The tractor trying to	attempting to turn. The design	merge, it's very difficult to see
give the cyclist room, the	indicated should include an	traffic that's coming from
motorcycle trying to squeeze	overpass which would assist in	Bighorn, behind you, and also
past the tractor while the truck	the above or the possibility of a	from the gas station to your
and belly dump where on	round-about.	left. If you've stopped to give
coming and then a passenger		way to oncoming vehicles
car stopping to make a left		(coming from your rear), it's
turn, but waiting for the belly		difficult to get back up to speed
dump to pass.		to join the traffic flow.
multiple entrances and exits from	n gas station can confuse drivers ap	proaching intersection. Merging

multiple entrances and exits from gas station can confuse drivers approaching intersection. Merging traffic from Story don't yield well. Traffic from the gas station and Big Horn Ave. congest an already awkward intersection. Too abrupt of a turn to come from Story to either Big Horn or Big Horn Ave. Unfamiliar drivers often overshoot the sharp left turn. Traffic pulling onto highway headed south often travels significantly slower than approaching traffic already at speed coming from the north.

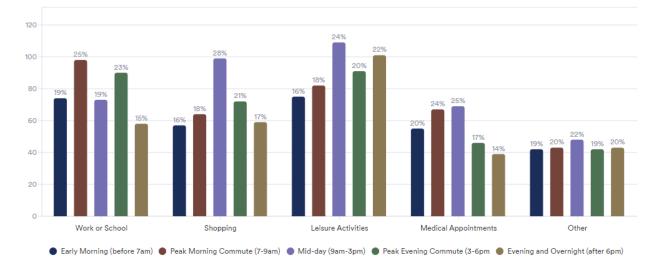


## What are your top concerns about this intersection? Select up to three.

● Ability to make turning movements ● Speeds ● Visibility ● Bicycle and pedestrian access ● I don't have any concerns ● Pavement condition ◎ Other entries

Other entries:			
Failure to yield	Turning lane seems really short	people not paying attention and	
	for the speed.	pulling out infront of other vehicles	
Traffic going into and out of gas	Adding 4 lanes to Woodland Park	Drivers failing to yield right-of-	
station at the intersection	will not help this situation at all.	way when entering	
		Coffeen/SH335	
Too many approaches in one	failure to yield by merging	North bound Traffic is	
place	vehicles	unpredictable	
Difficult (time consuming) to	Just need to stop the flow of	When turning out of the Big	
cross the intersection during	traffic from Story. Speeds aree	Horn Y Store on the south end,	
busy mornings and 5pm rush.	fine if they obey the laws. When	it is difficult to see southbound	
Short distance available to	they took the stop sign out of	traffic on 87.	
merge into traffic from Story to	the Big Horn side they just		
Sheridan.	needed to put it on the Story		
	side.		
Number of vehicles present. It makes people anxious and make dumb, rash decisions just to cross the			
intersection			

Where are you headed when you pass through this intersection and at what time of day? Please use the drop-down menu to indicate how often you use the intersection for that purpose at that time of day.



When you are using this intersection, what challenges and opportunities do you observe and/or experience?		
Deer, people losing patience waiting for a chance to turn into traffic while waiting at a stop sign	I'm usually crossing Coffeen and find it difficult to find appropriate openings in traffic	When merging with trailer visibility is difficult
Left turn from 87 onto south/west bound 335 often congested	Speeds, stop signs inefficient, need for a better traffic integration system specially during winter.	Fast traffic, vehicles thinking they are more important and obviously in a hurry.
There is no sidewalk or bike path in the area at all. People get frustrated waiting and pull out in front of speeding cars. There is no light to help people navigate the area.s	Driving north on 87 and merging onto 335 is difficult due to the angle necessary to look south for traffic you need to yield to.	Difficulty entering highway from convenient store. Difficulty seeing on-coming traffic when turning right to go south on 87 from Girls School Road.
The most concerning is difficulty seeing traffic coming from Bighorn.	Merging safely	Visibility is the main one. Making the turn from the south side of the gas station.
As I stated above, drivers coming in from Story don't yield. They rarely look to see who is coming from Big Horn. I have been in situations several times where if I had not slowed down the "yielding" driver would have hit	Drivers' frequent lack of concentration about the various other things happening around them Turn signal usage; yield sign observation; turning into the gas station heading south; people pulling out In Front of 55 mph.	When traveling from Story to Sheridan, it is difficult to merge due to the sharp enter and being able to look over my shoulder at the posted speed. I liked how it was 30 years ago when one side had to STOP. When traveling to

	[	Stary, there are times it is
me. I always blow my horn, but they just don't look.		Story, there are times it is difficult to make the turn.
	lloove troffic times create a long	
Being able to see while turning	Heavy traffic times create a long	Visibility entering & exiting the
from big horn avenue onto the	wait, and this causes people to	merge traffic lane
highway.	take unsafe risks into traffic.	<b>F</b> 1 14 1 14
	35 is way too short. Traffic from 33	
	affic merging into their lane. In fact	· · ·
	bus time flowing onto the merged hi	
	ging so traffic needs to maintain spe	
	ink, would help lessen the aggression	
	rge into Big Horn Ave's 4 or so mile	
It is difficult to see traffic	Difficult (time consuming) to	Crossing or turning and on an
coming from BH when merging	cross the intersection during busy	occasion merging. Even Turing
from Story. It is difficult to see	mornings and 5pm rush. Short	out of the Big Horn Y gas station
when leaving the store parking	distance available to merge into	or turning into it is a challenge.
lot. Sometimes it's hard to tell	traffic from Story to Sheridan.	
how fast people are driving.		
traffic too heavy/fast for turning	traffic traveling fast. improper	Making turning movements.
or merging.	turn lane usage	
Challenges crossing the highway	Left hand turns from Story	Just waiting for traffic to clear
or merging into it going from	toward Big Horn. Crossing the	5
Story to Sheridan.	intersection from Sheridan to	
,	Story.	
Difficulty turning onto the	People taking rushed and	The fact that the two streets
highway. People merging often	dangerous turns and crossings.	intersect at a 45 degree angle
don't know they need to yield to	Slower drivers being bullied by	and not 90 degrees causes a lot
traffic already on the hwy also.	aggressive drivers.	of issue when checking for
		oncoming traffic
There is quite a bit of traffic,	People turning in front of you or	Congestion, people trying to get
especially with people accessing	crossing when you are going 55	on the road from the gas station
the business, The Big Horn Y.	mph. People turning into the gas	& Big Horn Ave, too many
Also with turning onto Big Horn	station and pulling out where	vehicles driving too & from Big
Avenue or turning toward Story.	there is a blind spot on the south	Horn/Story at peak hours (for
	end. People merging from the	
haven't seen any accidents, but		work or school) & everyone
I'm not out there often.	story way not knowing what yield	drives fast. Wide intersection for
	means.	the stop signs
During peak times, north bound	I have observed multiple vehicle	Heading north, there's a turn lane
87 merging on to 335 hesitate	collisions and "close calls" as well	immediately in front of the gas
and/or stop because view of 335	as traffic not adhering to the	station that has south bound
north bound traffic is blocked by	posted stop signs and speed	vehicles heading into the same
vehicles (especially tall vehicles)	limits. The blind spots created by	lane. There's a potential for
and limit sight distance for safe	the landscaping at the gas station	head-on collisions. Disable that
merge.	limits visibility.	first turn in and require
		northbound vehicles to use the
		2nd turn-in. That would help.
People slowing down to come	People getting desperate due to	Hard to see traffic coming when
		÷
in/out of the gas station. People	amount of traffic, and making	exiting gas station. Traffic exits

manning in gaing south south	had decisions los dias to	and station and 200 as if an and
	bad decisions leading to	gas station and 332 as if speed
	accidents and close calls.	limit is 30mph. Merging traffic
-	Particularly people to and from	traveling north will often
, .	Big Horn on Coffeen flying	aggressively pass outside of the
road.	through the intersection	lines on the right to avoid
		yielding.
Other people not paying	Speeding cars. Not yielding.	Difficulty making left hand turns
attention	Traffic congestion.	due to heavy traffic.
There are challenges presented	Completing a turn in snowy	Dangerous merger from story. No
- · ·	conditions, entering the highway	stopping from Bighorn Avenue.
•••	after a stop at the intersection	To high of speeds and merging
	due to high speed traffic.	traffic from Bighorn Y.
	Dangerous intersection for both	The turning lane to go up the hill
	south bound and north bound	seems really short for the speed.
		Needs longer slow down area.
	commuters. Driver distractions	Merging traffic and turns from/to
Atready menuoned above.		Story
When merging off HWY 87 going	There is increased congestion	As I stated above, something
	before and after school/work	needs to be put in place to
	times making it very difficult to	simplify decision-making. The
<b>J</b>		
5 5	make a left-hand turn onto the	only way to make that happen if
_	HWY as well, as turning off the	by use of traffic signals at all
÷	HWY onto Big Horn Avenue.	conjoining points. It's not fool
	Challenges safely entering and	proof, but with proper signage in
	exiting the Y gas station near this	advance, this should help
	intersection as well	alleviate most of the safety
DOWN.		issues.
Left turns from story to bighorn	Sometimes traffic is heavier and	Speed is too fast to address
in afternoon are tough. Long	it's hard to turn left or right into	people taking risks. If I slow
waits at stop sign. Story traffic	the highway off bighorn ave or	down to a comfortable rate for
not following yield sign.	from story	me, I'm tailgated. If I go 55, I'm
		risking a wreck and the inability
		to anticipate others' actions.
cars and trucks not using blinkers	Pulling out from gas station.	Yielding coming from 87 to merge
<b>U</b>	Gauging traffic at all merge/stop	onto going into Sheridan
	sign locations.	
	Traveling north on 335 to 87	Traffic entering Coffeen Avenue
	sometimes have merge issues	from Highway 87 Very seldom
	with people traveling north on 87	yields. Also, the traffic at this
	failing to yield. Traffic crossing	intersection is very heavy during
, , ,	• • •	lunchtime and vehicles are
	or entering from 87 or 332 onto	
	335/87 will pull out and not yield	constantly pulling out of the gas
	to oncoming traffic. Vehicles	station without any regard to
	pulling onto 87/335 from the Big	traffic on the road. I have at
5	Horn Y Store sometimes causes	least one vehicle each time I
	panic stops to oncoming traffic.	travel through this intersection
navigate improper turning lanes.		pull out in front of me where I
		need to slow down very fast.

Large construction trucks travel		
Large construction trucks travel through in early rush hour traffic.		
speeding from other vehicles.	Extreme turning radius.	either people drive like they are
Not stopping, just doing a touch	Significant speed differential	on the interstate and racing to
and go. To much traffic for this	Visibility due to sun / glare. Too	get in front of others or they are
and as building and more people	many vehicles in conflicting	driving so slow they are impeding
move in area will only get worse.	directions	traffic.
People don't merge correctly	Speed limit nor enforced	Visibility. Speed is too fast at
		intersection.
People just driving very fast.	Visibility is a big concern.	People don't yield from Story.
People not yielding or paying	I am concerned other drivers will	Sometimes traveling northbound
attention to the speed limit as	pull out in front of Mr or not see	from Hwy 87 to Big Horn Ave
they enter the highway. In	me as I am driving to Sheridan	(Hwy 332) can be a challenge
addition a lot of people are	from Big Horn at the Y	crossing 87/335
speeding as well and passing	intersection	
others that are going the marked		
speed limit.		
Long wait times.	Many <u>cars do not yield</u> when	Trying to cross the intersection
	joining at the Yield Sign going	during an increased flow of
	north	traffic can be quite difficult.
People's general poor driving	Occasional confusion regarding	lots of crashes from people
skills. Too slow or too fast. Lack	the southbound turning lane to	cutting each other off and or
of using turn signals. Poor turn	Story Highway which is also the	near misses from people blowing
lanes off 335 from story and into	turning lane in to the gas station.	the stop signs
BHY gas station		
Lack of attention from other	It can be a challenge to merge	Yielding is dangerous. Speeding
drivers. Aggressive drivers or say	onto Coffeen coming off US 87.	to fast in this area
it road rage incidents.		
Hard to cross the intersection	It's very hard to see the cars	I have not seen or experienced
from Story up to Girl School Road	coming from Big Horn when	any challenges, but traffic seems
because of how much traffic	attempting to pull into traffic	fairly light at the times when I
there is during morning peak	from Story direction. This is	use this intersection to recreate
times. Sometimes it is hard to	compounded by cars pulling out	on the face of the big horns (Red
see or the traffic from the Big	from the convenience store. The	Grade) or utilizing the interstate
Horn Y gas station can pop up out	angle is all wrong and the cars	via Meade Creek.
of nowhere.	are going way to fast for me.	
I keep a close eye on the merging	I frequently turn north from Big	When coming from Sheridan to
traffic from Story to town, on the	Horn Ave. onto Coffeen Ave.	make a right hand turn onto Big
vehicles turning into or leaving	Traffic is often unpredictable in	Horn Avenue at the Big Horn Y
the Bighorn Y. Leaving town,	this area as you have people	intersection, I am always
pretty much the same, except	continuing through to Big Horn,	concerned about cars coming up
vehicles heading south that	stopping for gas at the Big Horn	too fast behind me and the risk
travel below the speed limit the	Y, turning to go to Story, etc.	of being rear-ended. I always
whole way invariably turn left to	This results in an unpredictable	turn on my blinker well in
Story! The vehicles waiting to	and volatile traffic pattern that	advance to give others plenty of
turn right from Bighorn ave.	is difficult to anticipate - even	warning. The speed zone of the
towards Bighorn often don't wait	when motorists do their best to	intersection is way too fast in my
for traffic gaps, causing a	signal. I believe there is	opinion. I also am concerned
···· ·································		epinioni i albo ani concerned

al an adverse of a solution of the solution of the		
slowdown of vehicles traveling at	abundant opportunity to create	about traffic coming out of the
55mph! Please do not reduce the	consistent predictable traffic	gas station in front of me. I try to
speed limit, educate the risk	speeds while preserving the flow	be cognizant and stay alert in
takers!	of traffic via the use of a well-	case someone pulls out in front of me.
	designed traffic circle or similar	or me.
	approach. It is difficult to see traffic	Difficulty truncing left anto Dig
I suppose the only concern I have		Difficulty turning left onto Big
is when slowing down to make	coming and up and down cofeen	Horn Ave when facing a car in
my right turn up Big Horn Avenue the traffic behind me is travelling	(coming from sheridan to bighorn and from bighorn to sheridan) A	the opposite turn lane as you cannot see around them. Also I
at 55 mph and if someone is in	traffic circle would be a great	find it difficult turning right off
the left turn lane, my right turn	addition to this high congestion	of Big Horn Ave as you really
seems to be an 'inconvenience,'	area with out causing a	need to extend beyond the stop
slowing down the through traffic.	realignment. Also the short	sign limit to see oncoming traffic
When reversing my travel, I don't	merge lane coming from story	- depending on cars coming/going
have an issue - it requires	heading to sheridan makes it	in/out of the Big Horn Y
patience waiting for traffic to	hard to guage traffic speed. this	store/gas station.
clear.	could also get eliminated with a	Store/ gas station.
	traffic circle.	
when entering intersection from	We enter Coffeen from. Maverick	Sometimes it is hard to cross
the south, being able to see	and see vehicles driving way to	from Hwy 87 to Bighorn Avenue
traffic from West and judge their	fast coming from theY junction	due to the volume of traffic
speed.	trying to merge onto Coffeen	headed to/from Big Horn.
Cycling across the intersection is	traffic turning into Bighorn Y	Card not stopping or coming to a
hard		complete stop.
Can be difficult to see traffic	Traffic converging several points	Difficult to pace traffic as well as
coming from Big Horn when	at once. Sometimes at limit	people from the store pulling out
merging from Story side.	speed or above.	going north
visabatly	No problems	No real challenges.
Not many. People are just	Too many turning options with	Difficulty seeing traffic headed
impatient. There is never more	too much traffic traveling at high	to sheridan while merging from
than a couple cars waiting to	speeds.	87.
turn.		
With heavy traffic turning can be	The entry and exit from Story	During peak hours it is hard to
difficult, visibility seems a little	toward Sheridan is difficult and	turn south off of 87 towards
limited turning right coming off	made more so by traffic entering	Bighorn. I've waited more than
the girls school road turning	and exiting the gas station near	10 minutes to make that turn.
either way at times	the Y	
Drivers lack of knowledge	Lots of traffic and long waits to	It just seems like an awkward
regarding right of way.	cross.	intersection when people are
		driving highway speeds.
Merging lane when coming from	It's a very busy intersection.	Merging traffic concerns at the
Story to Sheridan should be	Having the station & convenience	intersection of 87/335. Drivers do
longer Turning lane when	store add to it especially @ lunch	not always pay attention to the
traveling from Sheridan to Story	time. A lot of workers eat lunch	traffic that is merging into their
should be for South bound traffic	there. But the biggest problem is	lane coming from Story or from
only (Access to the gas station	all of the traffic involved with	Big Horn. Visibility concerns
	construction. It's becoming more	

for North bound should use the	& more dangerous without a	pulling out of the Big Horn Y
entrance off of Big Horn Ave.)	light.	store.
multiple entrances and exits	I don't believe the speed limit	When stopped at the stop sign on
from gas station can confuse	needs to be adjusted this could	Big Horn Ave. The view from the
drivers approaching intersection.	be a good location for a round	left is near impossible to see
Merging traffic from Story don't	about. People need to learn to	without having the nose of your
yield well. Traffic from the gas	drive their depth perception is	vehicle sticking out in traffic.
station and Big Horn Ave. congest	terrible. Pulling out in front of a	This is due to the sign that the
an already awkward intersection.	car at 55 mph is ridiculous. Also	Big Horn Y store has along with
Too abrupt of a turn to come	people coming from the south	shrubbery. When traveling south
from Story to either Big Horn or	crossing over a double yellow line	from Big Horn heading into
Big Horn Ave. Unfamiliar drivers	to turn left into the gas station is	Sheridan on Coffeen Ave if I
often overshoot the sharp left	crazy driving school and rules of	encounter someone merging
turn. Traffic pulling onto	the road should be followed.	more times than not the car
highway headed south often	Turning left at intersection to	merging feeling they have the
travels significantly slower than	girls school road and then right	right of way when they don't.
approaching traffic already at	into the gas station works great.	Which then causes me to either
speed coming from the north		have to hit my brakes or go over
speca coming from the north		the speed limit to avoid getting
		hit.
Coming off 87 from Story.	Having the turning lane is great.	People tend to slow to 45 in this
Crossing 335 to Big Horn Ave.	But confusing, if someone is using	area naturally because of
Idiots from the powder horn.	it to turn to go to Story it is	vehicles accessing and coming
Bicyclists should be ticketed for	sometimes difficult to use the	out of the gas station there. The
impeding traffic when they ride	turning lane to go to the gas	challenge is getting out of the
during peak hours. In no way	station. Traffic coming in from	gas station on to Coffeen Ave. It
should bicycling be a priority on	Story that is speeding. Little LE	can be challenging especially if
this road. Thats what bike paths	enforcement.	you are headed North to Sheridan
are for. You cannot mix heavy		or trying to get in the turn lane
duty traffic with people on bikes		to Story. But overall there is not
on a narrow 2 lane highway. We		a ton of traffic for long periods of
already killed one person doing		time
this in the past 10 years.		
While I have not experienced any	issues at this intersection myself, I in	nagine bicycles or pedestrians
would have trouble navigating that	t area during peak times. Not sure if	the bicycle/pedestrian volume
would warrant a study on putting i	n a cross walk (would cyclists actua	lly use the crosswalk?). Another
	ole speed limits near that intersectio	-
-	I would not like to see a stop sign of	
	gative impact to the flow of traffic	-
vehicles driving at a high rate of	Visibility when merging onto 87	A roundabout is needed that
speed, and failing to yield to	coming from my house, looking	would be safe and all traffic
oncoming traffic Failing to	left when I am getting up to	would be slowed down yet travel
properly merge	55mph to head into town.	would not stop
Speed. MPH Should be slowed	Safely turning or entering traffic.	The volume of traffic Vehicles
throughout the area.	Reduce speed and improve	pulling out in traffic dangerously"
	safety.	
Excessive speed of other	merging into coffeen ave. from	1. Turning left toward Story
vehicles. Visibility of other	story you have to watch for	when driving south. 2. Turning
teneces therefore of ourer	see, jou nate to match for	

vehicles. Ability to turn safely .	traffic from hig h	norn, traffic from	left onto Big Horn Ave when
Drivers are often rude, using	the Big Horn Y, as well as from		driving north.
their vehicles as weapons.	maveric drive.		
Visibility.	long wait times g	going across 87	Crossing Hwy 335.
Many drivers run stop signs or	Drivers not yieldi	ing and speeds	It would be much better with a
pull out leaving little	seem excessive t	through the	roundabout as it would slow all
time/distance for the traffic with	intersection give	n the	traffic down to a similar speed
right-of-way to react.	commercial busi	ness driveways.	and also make it easier to cross
			the main flows of traffic.
Issues with visibility of traffic	People going exe	• •	Vision of traffic coming from big
traveling towards big horn while	the speed limit.	•	horn when attempting to turn
at the stop sign at the bottom of	crossing from sic		north from big horn avenue. Also
the hill	leading to Story.		oncoming traffic is a challenge in
			that same scenario.
Increased homes is causing a signi			re considered as a solution, speeds
traffic coming onto and off the ma	-		ed to be reduced well before
Sight coming onto 87 from either s		vehicles potentia	lly need to stop.
very limited due to the gas station			
Speed from all directions,	Posted speed lim	-	during peak commute times
difficulty merging and	intersection is to	-	there are minimal opportunities
maintaining a merge with	amount and flow		to cross the main road if
minimal lane to safely merge. I	There are two active		traveling North or South. If
have to come to a complete stop	intersections attempting to		towing or have heavy vehicle,
with traffic, but nearly get rear	utilize St. Hwy 335. Lower		pulling out when traffic is going
ended by those expecting a yield	speeds will help merging the two		55+ mph creates a dangerous
merge situation, but not enough	intersections traffic into Hwy		situation, especially when
room to do so.	335.		turning towards Big Horn.
Visibility while in merge lane		People pulling o	ut in front of you

The project team has identified a number of priorities when it comes to improving this intersection. Please rank the following priorities from 1 (most important) to 4 (least important).

Weighted Results:

- 1. Safety
- 2. Turning Movements
- 3. Traffic Congestion
- 4. Pedestrian/Bicycle Access

Is there anything else you would like the project team to know about this intersection?		
Lots for wildlife (deer) interfere	Would a yield lane help coming	
with the area as well	off of Big Horn Ave eastbound to	to decrease and ruin. Congrats
	335 southbound? Or a	
	roundabout?	
What ever you decide to do,	This is NOT a small town	PLEASE put in a round-about. I
please DO NOT put in a	anymore. We need an area for	know it is unheard of around here
roundabout!! It will created a	our kids and other community	but it would be a terrific location
lot more problems than it will	members to move around the	for one. PLEASE.

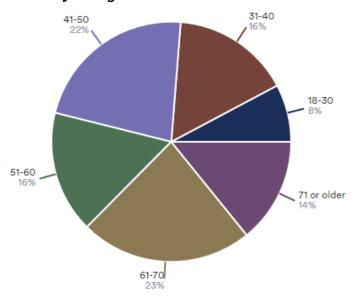
solve! This would be a	area without a car. It is a	]
nightmare.	deathtrap for people on foot or	
	bike.	
It will be a shame to have to put	Not at this time. Other than	If Coffeen, from the college to
in a light, but that prob what is	traveling from HWY87 to the	the Big Horn Y becomes 4 lanes,
going to have to happen and then	intersection, there really is not	which I hope it doesn't, this will
you will have all the people who		be a super cluster of chaos. We
live in Sheridan but go to BH late	onto HWY335. I personally have	need one central turn lane, one
for school trying to beat the	not witnessed an issue but with	traffic lane in each direction, and
light. Having driven the route for	increased traffic use and an	right turn lanes into each of the
25+ years, the changes in	increase in recreational trailered	side streets, with room for those
population have brought on so	traffic, I always anticipate there	banks of mail boxes. AND A BIKE
many of these problems. I hope	being a problem. Thanks for	LANE on both sides. We do NOT
your team will consider	providing the survey.	need 4 lanes for cars. Thank you!
something like a variable speed		-
zone timed for peak traffic		
times.		
It just seems to be a poorly	This intersection is a perfect	I would like you to address the
designed intersection because	location for a Rotary	intersection of Big Horn Ave and
people won't slow down and	intersection. Speed would be	Brundage Lane. We NEED a light
merge. Bike riders have an even	reduced and turning movements	or something there. The traffic
harder time because there isn't a	would improve. The problem is,	coming from Big Horn makes it
bike lane for them. The shoulder	many people from Wyoming find	very difficult to turn on to either
is often dirty and has a terrible	it difficult to yield to cars in the	of these roads during peak work
lip that can catch your wheel.	Rotary.	hours and also on the weekends.
		Big Horn Ave is also very hard to
		cross on foot.
This is an ideal situation for a	it is only by the grace of god and	This is a perfect opportunity to
round-about like those used	pure dumb luck that accidents	put in a roundabout. It would
extensively on the west side of	dont happen on a daily basis	calm traffic and keep vehicles
Billings.		moving.
I think we need traffic lights at	Please don't put in a round about	
this intersection.		help with the ability to merge.
Remove the Juniper at the	There needs to be four way stop	Time of day and where I am going
middle entrance/exit to the	signs at intersection of 87 & 335,	should have no baring on the
Bighorn Y. It's a hazard to	also a speed limit approaching	issues that exist with the
clearly seeing oncoming traffic	and passing by the Big Horn Y	intersection and are none of your
when turning right out of the	station/store. Suggested speed	business. Same with the
parking lot	limit could be 45 to 30	demographics
	approaching stop signs.	
Hopefully WYDOT is also looking	I lived in Big Horn years ago and	A roundabout would work really
at a long long term plan to widen	the intersection is much better	great. They have been a game
the highway between Sheridan	now than it was then. There was	changer in North Dakota with
and Big Horn to help deal with		high traffic, along with heavy
the ever growing amount of traffic.	I was rear-ended once at that	truck traffic. Easy to use, good traffic flow.
	stop sign so I think not having one	
	is safer.	

Speed is a main issue with this	The recent growth in south	The worst and most dangerous
intersection. This should be	Sheridan and Big Horn makes the	part is the left turn off US 87.
lowered to at least 45MPH and	traffic very heavy on the highway	When you have a truck with a
should be done so immediately	(Coffeen avenue). The entire	horse trailer, or any other large
and not wait for the re-	highway from Sheridan needs	size equipment making a left turn
construction of the road. It	widened to include an additional	on 335, or even just trying to
would only require three 45MPH	lane each way and a turning lane.	cross 335 to get to Big Horn Ave,
signs and posts as the 55MPH	The turning lane is especially	oncoming traffic both directions,
signs are already on each side of	important as it is very scary	and traffic not slowing down on
the intersection. In the last 30	trying to make a left turn during	87 headed into Sheridan, you
years the traffic in this	heavy traffic it creates a traffic	have a problem. Watch that all
intersection has increased	blockage. There are many cars	the time. Pretty soon you have
tremendously and will keep	coming up fast behind, often	traffic backed up as far as Little
increasing as time goes on	using the shoulder to get around.	Goose bridge.
making this intersection more		
dangerous unless something is		
done.		
Please do something before	55 MPH IS WAY TOO FAST AND	I'm not sure what the best option
someone gets killed.	THE CAUSE OF MOST ISSUES.	for that many directions of traffic
	SLOW THE TRAFFIC DOWN.	meeting in one location
This is important. Don't take too	Speed limit not enforced	Reduce speed please
long and thank you!		
This is one of the problem spots	Please please please address the	A roundabout is not the solution.
in the area that discourage more	speed and yield sign issue. It's a	I feel it would be hard for trucks
people from riding their bike	butt-clencher dailywith my	to deal with and would be hard
along the highway.	babies in the car.	to get to the Y Store and Upper
		Road.
I would suggest as first option	However the redesign is made	It would be nice to not have to
story traffic not merge but go to	please make sure that there is	slow down for this intersection. I
stop sign. Also reduced speed to	plenty of room for semi-trucks to	would like for traffic to move
45 mph from Little Goode bridge	turn and have plenty of room to	through at appropriate highway
through intersection. Second	maneuver the Y. I live across	speeds and not be treated like an
option make intersection a round	from the Y and there are many	intersection in town, if that is
about like is done in Billings, MT	semi trucks that use the Y	possible while maintaining safety
or going into Jackson WY.	everyday.	and accessibility.
This project needs to have a four	Install accel lane from girls	55 mph speed limit through the
way stop or lights in order to fix	school rd to bighorn rd with a	intersection is too high. 45 mph
the safety issues.	merge lane and yield rather than	probably more appropriate.
	stop.	
This is a very dangerous	It might be a GREAT place for a	Speed limit should be reduced
intersection.	Roundabout.	approaching this intersection.
I think this should be a four way	It's all about the ability to bend	I do not encounter any problems.
stop or an access lane for traffic	my head around to look toward	I think you are resting an issue
from the south similar to those	Big Horn when I'm going to	that does not exist 98 percent of
on the interstate	Sheridanwrong angles. A traffic	the time.
	light would help.	
Factor in the business traffic	There is not much traffic in this	I believe the highway needs to be
merging, turning in and out of	area. Mostly at 7 am or at 8 am is	- ,

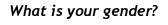
the gas station especially with	when there are a let of people	intersection and the speed limit
the gas station especially with the merging from Story going to	when there are a lot of people turning out from neighborhoods	intersection and the speed limit should be lowered to 45 until
Sheridan.	or turning off the highway.	after the intersection.
		There will need to be turn lanes
Please put a light or 4 eat stop on	There needs to be a stop light	
here.	here.	and merge lanes should be well
		marked.
It just seems odd, like you have	No hopefully this time around of	The Highway Patrol and Sheriff's
to know exactly where you need	reworking it will be safer without	office should be giving out tickets
to drive before you even get to	decreasing the speed limit. I	for impeding traffic. Bike, old
the intersection. I notice this the	think a turn lane would be	people whatever. Do you know
most when I am driving from	beneficial but then there are	how many times I have had
Story to Sheridan. I have learned	people that don't understand	someone pull directly out in front
from experience where I need to	what a turn lane is either. 5 lanes	of me busy they "don't want to
drive, but I often wonder what	so people can get around the few	get stuck behind a semi." And
tourists are seeing as they	seniors that think the speed limit	they then proceed to do 35 mph
approach this intersection.	is 20 mph which going to slow is	on this road. OR they turn 2
	also a safety issue.	driveways down. Our community
		is filled with morons that cannot
		drive!
A lot of intersections in a short	I can't say it clearly enough,	87 is the main Highway and
span. Not aware of many	there are too many entrances	should have the right-of-way. All
accidents though. Probably more	and exits at multiple points and	roads into the intersection should
deer collisions then accidents.	varying speeds in this area! It's a	have two lanes. Speed is the
	lot for drivers to watch for and	main problem especially those
	drivers tend to underestimate the	coming into the intersection from
	safety risk.	Big Horn.
It definitely is a strange approach	Maybe this is a good place for a	Minimal space to merge to keep
Stop sign on Big Horn Ave. I've	roundabout. People will whine	traffic flowing, and balancing
seen 2 accidents where someone	and some will whine forever but	slow speeds from a stop to
drove off the road, but having a	that's just their natural state.	highway speeds in a short time
slower speed is an improvement.		and little room.
prime candidate for a round	it would be much safer with a	Its dangerous to us, we avoid
about and a turn lane into the	roundabout [ Traffic circle].	peak hours as much as possible.
gas station from the north.		
Sheridan is growing and traffic is	I have rarely crossed that	I believe 90% of the issues could
increasing along all stretches that	-	be addressed virtually cost-free
come together at this	however I have never had any	by placing a couple law
intersection. It's not going to get	issues with visibility or difficulty	enforcement officers at the
any safer by doing nothing. The	getting across/merging to/from	intersection 24/7 for a month.
roadway between the college and	any direction. Seems the longest	Tickets for running stop signs and
the intersection is planned for	I have waited to get across HWY	failing to yield, as well as driving
widening, etc. It's obvious that	335 is maybe 30 seconds, shortest	the wrong way in the turn lanes,
the additional traffic flow is	is straight away after I stop. I	or pulling out and causing
inevitable. The less people have	have come down 335/coffeen to	vehicles to have to slow down
to think, the better. There are	87 towards Story, 335 towards Big	abruptly would add up to tens of
too many distractions nowadays.	Horn, 87 towards Big Horn, 87	thousands of dollars and the
By eliminating at least one, that's	towards Story (and the reverse	worst offenders- who drive
a good start.	for all of those as well).	
	isi all'or aidde ad melly.	

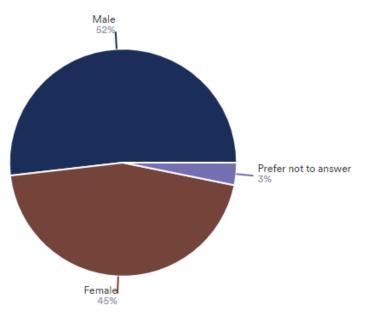
	dangerously there daily- would soon find an alternate route.
Would be best used as a turn around	Merging traffic from Hwy 332 to Hwy 335 without have to stop only yielding for oncoming traffic. And NO roundabouts!!!!!!!!

I feel that a roundabout should seriously be considered for this intersection as it would slow down the traffic, facilitate all turning movements and overall improve the safety.

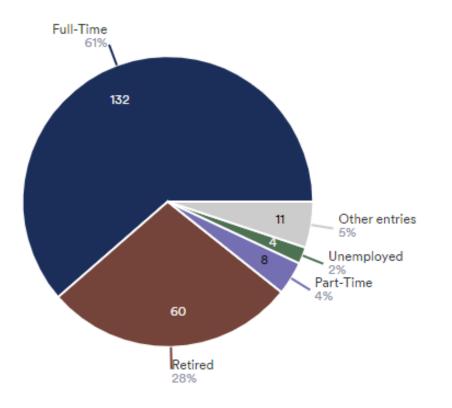


## What is your age?

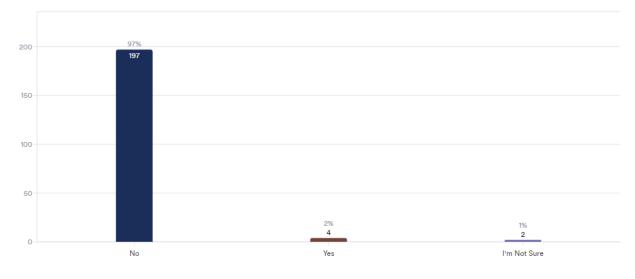




## What is your employment status?



Are you a recipient of any government aid programs (SNAP, unemployment, etc.)?



# Public Meeting #2

## Overview

An in-person and online, self-guided meeting was hosted to invite the public and stakeholders to comment on draft alternatives. The in-person meeting was originally scheduled for Thursday, Oct. 17, 2024, but was postponed due to ongoing wildfires in the project area. The in-person meeting took place on Wednesday, Dec. 11, 2024, in the commons area of Big Horn High School (333 U.S. Highway 335, Big Horn). The online meeting was available at <a href="https://www.US87IntersectionStudy.com">www.US87IntersectionStudy.com</a> from Wednesday, Dec. 11, 2024, through Saturday, Jan. 11, 2025. The comment period ended with the closure of the online meeting.

## Promotions

The online meeting was promoted through a variety of means in order to reach many members of the public.

Newspaper Advertisement and Media Release

The in-person and online meeting were both promoted in the Sheridan Press on Dec. 10, 2024, and Sheridan Media on Dec. 16, 2024.

WYDOT hosting Big Horn Y meeting | Local News | thesheridanpress.com

WYDOT seeking public input on Bighorn Y intersection alternatives

## <u>Radio</u>

WYDOT participated in a radio interview to promote the online meeting. The radio interview took place during the Daily Pulse talk show on KROE (930 AM and 103.9 FM).

## Social Media

Facebook was utilized to promote the online meeting through WYDOT District 4 - Northeast Wyoming's page. A total of two posts were made on Dec. 6, 2024, and Dec. 10, 2024.



## **QR** Code Poster

A poster with a QR code leading directly to the online meeting was placed at establishments nearby to the intersection. Poster locations include:

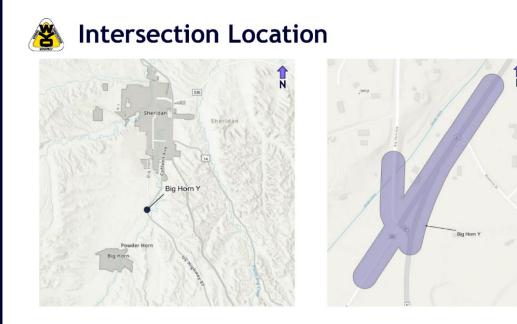
- Big Horn Y gas station
- Big Horn Post Office
- Last Chance Bar
- Big Horn Mercantile Pizza
- Starbucks

## In-Person Meeting Content

The in-person meeting included a presentation, handout, printed survey, and boards. The online meeting was an interactive, self-guided website that allowed users to click through information and answer a series of questions.

### Presentation:





# 🔏 Meeting Goals

- Share the results of public feedback from our first public meeting
- Present intersection alternatives and key findings from planning analyses
- Collect public comments prior to final recommendations



# 🔏 Overall Concerns

- Speeding and different speeds of vehicles
- Near-miss crashes
- Cars failing to yield and merging ineffectively
- High traffic volumes, especially during peak times
- Long wait times to cross and enter the highway
- Difficulty crossing the highway for bicycles and pedestrians

4

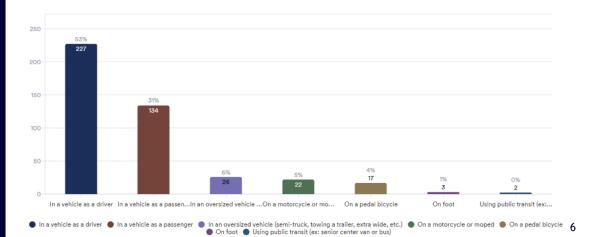
Inability to see oncoming traffic

# SURVEY RESULTS

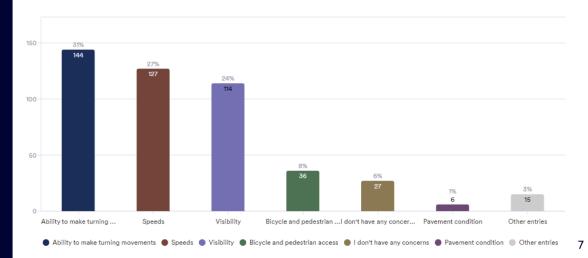
Online Meeting #1

# How do you travel through the intersection?

Y



# What are your top concerns about this intersection?





# **Comment Themes**

Lots of wildlife in the area	Going north from the gas station is challenging
Cycling across the intersection is hard	Difficult to see oncoming vehicles
Difficult to turn left and cross the intersection	It seems like traffic is coming at you from all directions
Make sure there is room for trucks to turn	Excessive speeding 8

# Intersection Improvement Priorities

	LEAST IMPORTANT	MOST IMPORTANT
Saf	ety Carteria	
Turning Moveme	ents	
Traffic Congest	ion 🚺	
Pedestria Bicycle Acc		)



# **Study Considerations**





# Alternatives Selection Criteria

- Ability to enhance safety with lower predicted crashes
- Oriver expectancy
- Future operations and delay
- Decreasing the speed differences between vehicles
- Environmental impacts
- Right-of way requirements
- Ability to address current intersection concerns

The alternatives presented today are currently in DRAFT form and are subject to change.

No alternative has been selected, and following this study, a design project will precede any planned construction.

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# **ALTERNATIVES**

At this time, no alternative has been selected. A design project will precede any construction project.

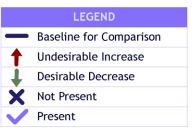


# 😤 Alternative 1: No-Build

## **ANALYSIS RESULTS**

- **Predicted Crash Rates\***
- 1 **Future Delay Rates**
- X **Property Impacts**
- $\checkmark$ Truck and Freight Mobility
- X Addresses Speeding Concerns
- X **Bicycle and Pedestrian Friendly**

\*Predicted crash rates higher than roundabout (Alt. 2) and allway stop intersection (Alt. 3) and similar to a signalized intersection (not carried forward as an alternative).





# Alternative 2: Single-Lane Roundabout

# **ANALYSIS RESULTS**

- + Predicted Crash Rates\*
- Future Delay Rates\*\*
- **Property Impacts**
- Truck and Freight Mobility
- Addresses Speeding Concerns
- Bicycle and Pedestrian Friendly

\*Lowest predicted crash rate of all alternatives. \*\*Lowest future delay rate of all alternatives.

	LEGEND
_	Baseline for Comparison
1	Undesirable Increase
ŧ	Desirable Decrease
X	Not Present
	Present



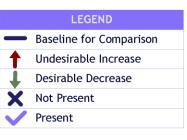


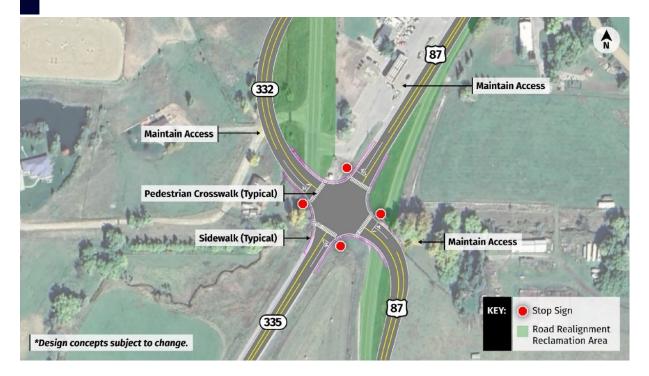
# Alternative 3: All-Way Stop Signs

## **ANALYSIS RESULTS**

- Predicted Crash Rates\*
- ↓ Future Delay Rates\*\*
- Property Impacts
- Truck and Freight Mobility
- Addresses Speeding Concerns
  - Bicycle and Pedestrian Friendly

\*Predicted crash rate slightly higher than roundabout (Alt. 2) but lower than existing conditions (Alt. 1). \*\*Future delay rate higher than roundabout (Alt. 2) and slower than existing conditions (Alt. 1).





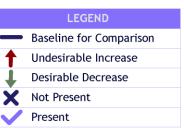


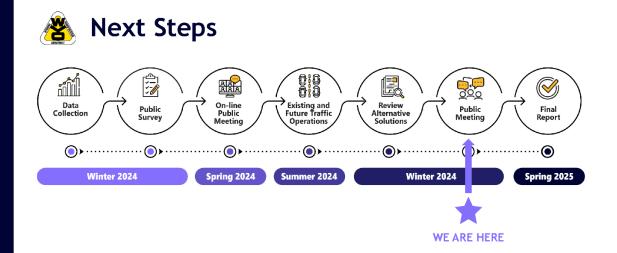
# What About a Signal?

## **ANALYSIS RESULTS**

- Predicted Crash Rates\*
- ↓ Future Delay Rates\*\*
- Property Impacts
- Truck and Freight Mobility
- Addresses Speeding Concerns
  - Bicycle and Pedestrian Friendly

\*Predicted crash rate is similar to existing conditions (Alt. 1) and higher than all other alternatives. \*\*Future delay rate similar to existing conditions (Alt. 1) but higher than all other alternatives.





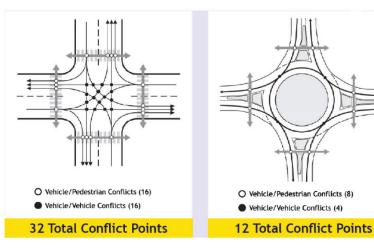


COMMENTS ACCEPTED THROUGH JAN. 11, 2025

# THANK YOU! Questions?

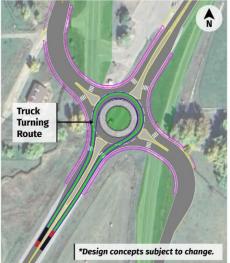


# Why a roundabout versus a signal?

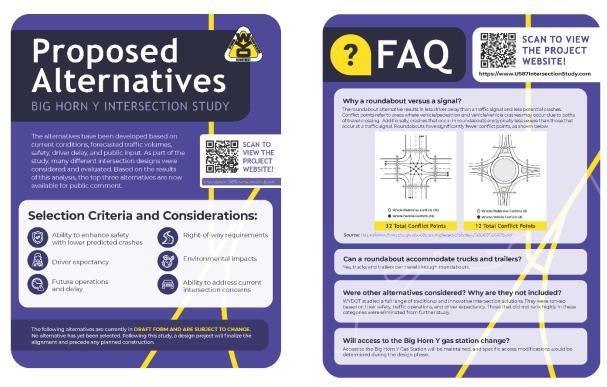


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# Can a roundabout accommodate trucks and trailers?



### Handout:



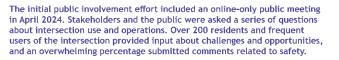
Boards:



# **MEETING GOALS** This is the second and final meeting for the US Highway 87 Intersection Study. This unique intersection, also known as the Big Horn Y, is located near Sheridan and presents challenges for commuters, trucks, bicycles, and pedestrians alike. THE GOALS OF THIS MEETING INCLUDE: Share results of what Present intersection Collect public we heard from the alternatives and comments prior to public during the key findings from final recommendations first public meeting planning analyses

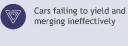
**BIG HORN Y INTERSECTION STUDY** 



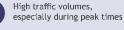


### A MAJORITY OF SURVEY RESPONDENTS RESPONDED THAT THEY WERE CONCERNED WITH:





merging ineffectively



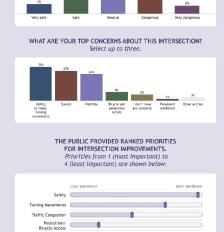


Long wait times to cross and enter the highway



Difficulty crossing the highway for bicycles and pedestrians

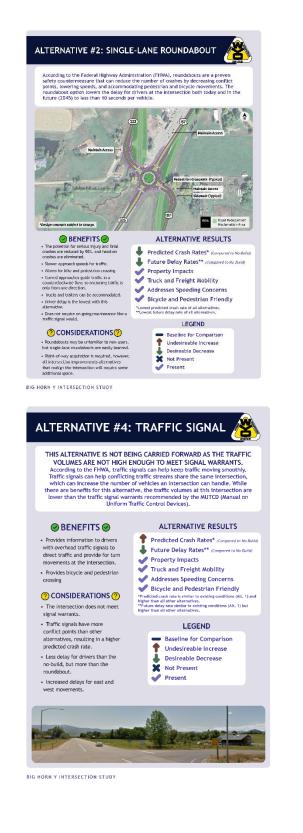
Inability to see oncoming traffic



HOW SAFE DO YOU FEEL TRAVELING THROUGH THIS INTERSECTION?

**BIG HORN Y INTERSECTION STUDY** 





BIG HORN Y INTERSECTION STUDY

Present



#### **BIG HORN Y INTERSECTION STUDY**

### **Printed Survey:**



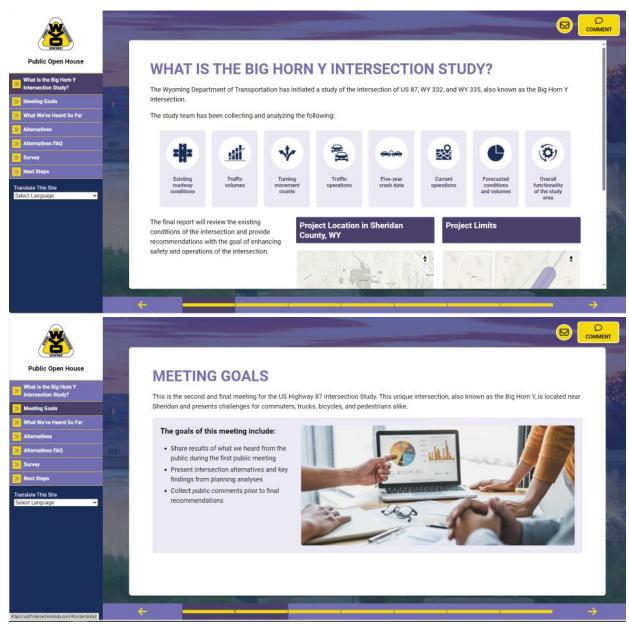
What is your gender?

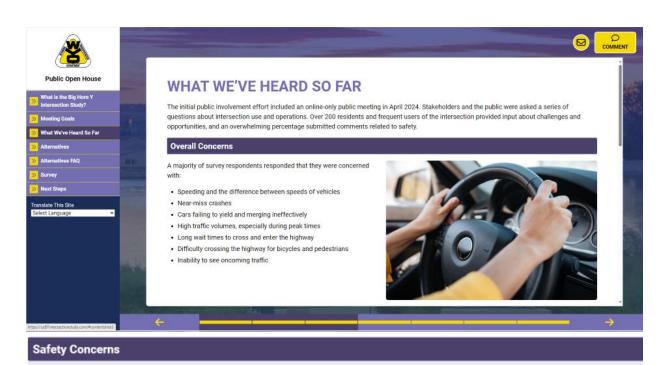
\_\_\_\_ Male \_\_\_\_ Female

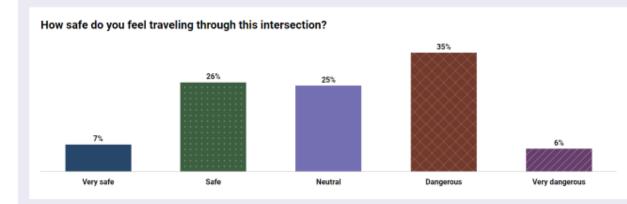
Preder not to answer

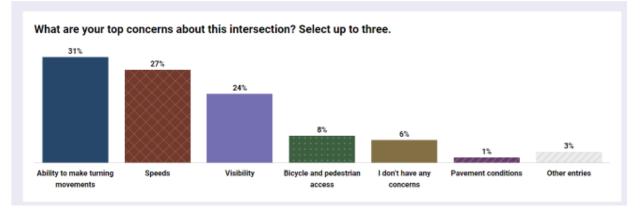
Are you a recipient of any government ald programs (SNAP, unemployment, etc.)? Yes No I'm not sure

## **Online Meeting Content**



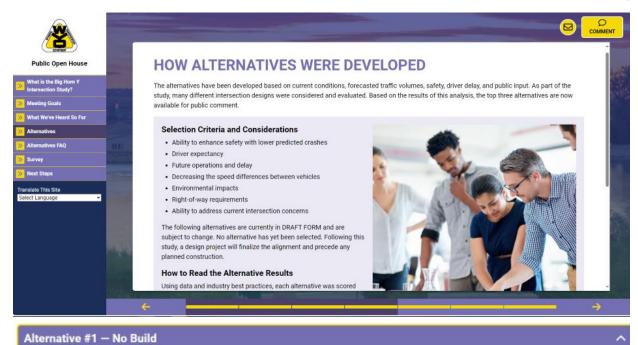






#### Intersection Improvement Priorities





If no changes are made to the intersection, operations and safety of the intersection will continue to decline. This alternative results in longer delay for drivers in the future (2045) and does not address any of the safety concerns noted during the first public input process. The current delay for drivers at the two-way stop is approximately 10-15 seconds per vehicle. If no action is taken, that delay will double in the future (2045) and will be approximately 30 seconds per vehicle.

#### **Alternative Results** Legend Predicted Crash Rates\* Baseline for Comparison 🕈 Future Delay Rates Undesirable Increase Desirable Decrease X Property Impacts T Truck and Freight Mobility X Not Present X Addresses Speeding Concerns Present X Bicycle and Pedestrian Friendly \* Predicted crash rate higher than roundabout and all-way stop intersections (Alternative 2 and 3) and lower than a signalized intersection (not carried forward)

#### Alternative #2 - Single-Lane Roundabout

According to the Federal Highway Administration (FHWA), roundabouts are a proven safety countermeasure that can reduce the number of crashes by decreasing conflict points, lowering speeds, and accommodating pedestrian and bicycle movements. The roundabout option lowers the delay for drivers at the intersection both today and in the future (2045) to less than 10 seconds per vehicle.



#### Benefits:

- The potential for serious injury and fatal crashes are reduced by 90% and head-on crashes are eliminated.
- · Slower approach speeds for traffic.
- · Allows for bike and pedestrian crossing.
- Curved approaches guide traffic so oncoming traffic only comes from one direction.
- · Trucks and trailers can be accommodated.
- · Driver delay is the lowest with this alternative.
- Does not require on-going maintenance like a traffic signal would.

#### Considerations:

- Roundabouts may be unfamiliar to new users, but single-lane roundabouts are easily learned.
- Right-of-way acquisition is required, however, all intersection improvements alternatives that realign the intersection will require some additional space.

#### Alternative Results

- Predicted Crash Rates\*
- Future Delay Rates\*\*
- Property Impacts
- Truck and Freight Mobility
- Addresses Speeding Concerns
- Bicycle and Pedestrian Friendly

\*Lowest predicted crash rate of all alternatives.

\*\*Lowest future delay rate of all alternatives.

#### Legend

- Baseline for Comparison
- Undesirable Increase
- Desirable Decrease
- X Not Present
- Present

#### Alternative #3 - All-Way Stop Controlled

All-way stop controlled intersections are suited for low to moderate traffic volume intersections serving motorized and non-motorist trips. In stopping all vehicles, safety of crossings is prioritized over the speed at which vehicles are allowed to travel. Slower speeds going through an allway stop control intersection reduces the likelihood of fatalities and severe injury crashes.



#### Benefits:

- · Provides bike and pedestrian crossing.
- · Reduces the speed of vehicles traveling through the intersection.
- · Eliminates yielding and merge issues at existing merge point.
- · Does not require on-going maintenance of a traffic signal.
- Reduces crashes by 48% compared to a two-way stop controlled intersection.

#### Considerations:

- Visibility for side-mounted stop signs on multilane facilities needs to be addressed; however, additional mitigation measures can be added to increase visibility such as advanced rumble strips, advanced signing, and LED stop signs.
- · Individual vehicle delay may be greater.

#### Alternative Results

- Predicted Crash Rates\*
- Future Delay Rates\*\*
- Property Impacts
- Truck and Freight Mobility
- Addresses Speeding Concerns
- Bicycle and Pedestrian Friendly

\*Predicted crash rates slightly higher than roundabout (Alternative 2) but lower than existing conditions (Alternative 1).

\*\*Future delay rate higher than roundabout (Alternative 2) and lower than existing conditions (Alternative 1).

#### Legend

- Baseline for Comparison
- 🕈 Undesirable Increase
- Desirable Decrease
- X Not Present
- Present

#### Alternative #4 — Traffic Signal

This alternative is not being carried forward as the traffic volumes are not high enough to meet signal warrants.

According to the FHWA, traffic signals can help keep traffic moving smoothly. Traffic signals can help conflicting traffic streams share the same intersection, which can increase the number of vehicles an intersection can handle. While there are benefits for this alternative, the traffic volumes at this intersection are lower than the traffic signal warrants recommended by the MUTCD (Manual on Uniform Traffic Control Devices).

#### Benefits:

- Provides information to drivers with overhead traffic signals to direct traffic and provide for turn movements at the intersection.
- · Provides bicycle and pedestrian crossing.

#### Considerations:

- · The intersection does not meet signal warrants.
- Traffic signals have more conflict points than other alternatives, resulting in a higher predicted crash rate.
- Less delay for drivers than no-build, but more than roundabout and all-way stop.
- · Increased delays for east and west movements.

#### Alternative Results

- Predicted Crash Rates\*
- Future Delay Rates\*\*
- Property Impacts
- Truck and Freight Mobility
- Addresses Speeding Concerns
- Bicycle and Pedestrian Friendly

\*Predicted crash rate is similar to existing conditions (Alternative 1) and higher than all other alternatives.

\*\*Future delay rate similar to existing conditions (Alternative 1) but higher than all other alternatives.

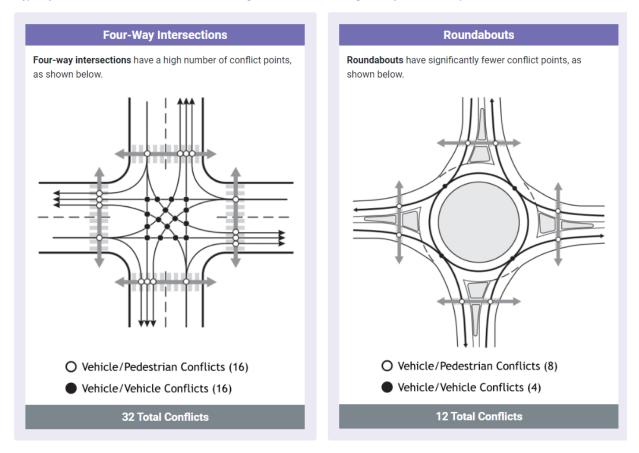
#### Legend

- Baseline for Comparison
- Undesirable Increase
- Desirable Decrease
- X Not Present
- Present



#### Why a roundabout versus a signal?

The roundabout alternative results in less driver delay than a traffic signal and less potential crashes. Conflict points refer to areas where vehicle/pedestrian and vehicle/vehicle crashes may occur due to paths of travel crossing. Additionally, crashes that occur in roundabouts are typically less severe than those that occur at a traffic signal. Roundabouts have significantly fewer conflict points, as shown below.



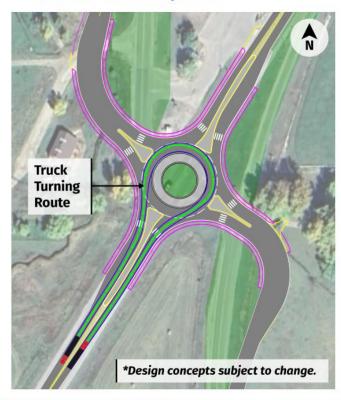
Source: https://www.fhwa.dot.gov/publications/research/safety/00067/000675.pdf

Were other alternatives considered? Why are they not included?

WYDOT studied a full range of traditional and innovative intersection solutions. They were ranked based on their safety, traffic operations, and driver expectancy. Those that did not rank highly in these categories were eliminated from further study.

#### Can a roundabout accommodate trucks and trailers?

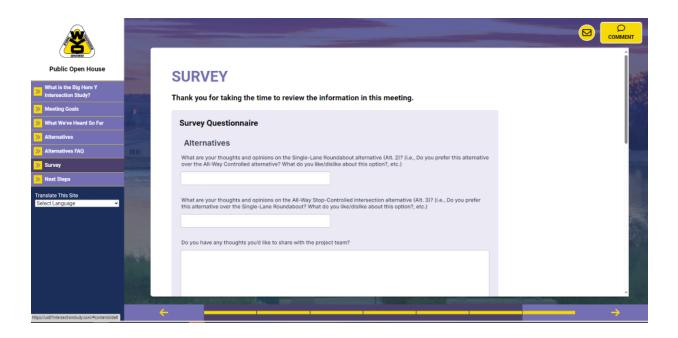
Yes, trucks and trailers can travel through roundabouts.



### Will access to the Big Horn Y gas station change?

Access to the Big Horn Y Gas Station will be maintained, and specific access modifications would be determined during the design phase.





### Demographics

### Why are we asking these questions?

It is important that public involvement opportunities are available to all people, and this information helps us assess our progress. These questions are optional and anonymous.

### What is your age?

- O Under 18
- 0 18-30
- 31-40
- 0 41-50
- 51-60
- 61-70
- 71 or older

### What is your gender?

- Male
- Female
- O Prefer not to answer

### What is your employment status?

- Student
- Full-Time
- Part-Time
- Unemployed
- Retired
- Other

Are you a recipient of any government aid programs (SNAP, unemployment, etc.)?

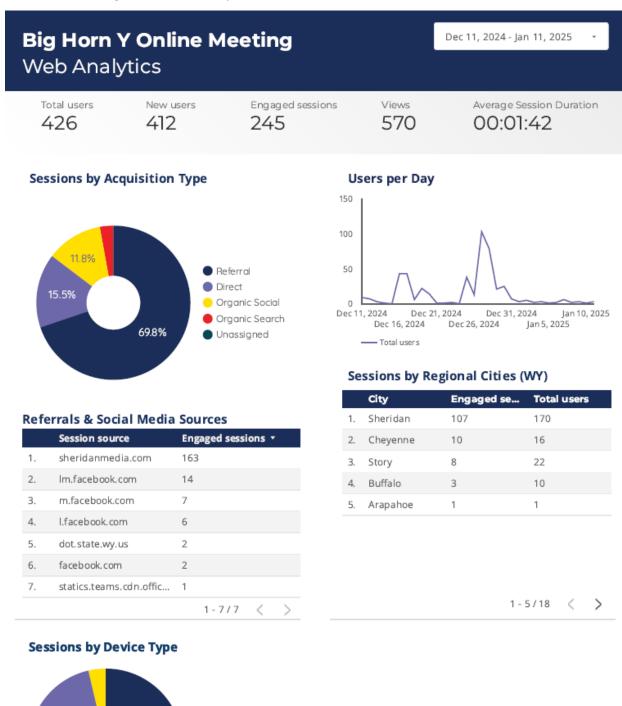
×

Please Select

Submit

	NEXT STEPS         Tank you for your input.         The study team has been collecting and analyzing the following:         Input collected through this online meeting and at the in-person public meeting on January 11, 2024 will be analyzed and taken into consideration as the study team develops a final report.         Comments will be accepted until January 11, 2025         Image: Developing the output of the study team develops a final report.         Optimized and the into consideration as the study team develops a final report.         Comments will be accepted until January 11, 2025         Image: Developing the developing team developing tea	Contact Information Contact the Study Team consequited InformationBlock con	
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### **Online Meeting Website Analytics**



desktop

mobile

tablet

54.1%

42.3%

For a comprehensive glossary on Google Analytics definitions, <u>refer to this guide</u>.

HDR traffic filtered from results.

# Survey Themes

In total, 92 surveys were completed as part of the online meeting. The table below details common comment themes.

Comment Theme	# of Comments
Pro-Roundabout	53
Anti-Roundabout	31
Concerns about Land-Use/Need for More Lanes - Roundabout	5
Financial Concerns - Roundabout	6
Safety Improved - Roundabout	10
Confusion/Driver Adaptation Concerns - Roundabout	11
Improved Efficiency/Decreased Wait Times - Roundabout	18
Pro-All-Way-Stop	17
Anti-All-Way-Stop	50
Financial/Land-Use Concerns - All Way Stop	2
Increased Risk of Traffic Violations / Crashes - All Way Stop	9
Confusion- All Way Stop	3
High Traffic/Long Wait Times/Difficulty Using Roadway- All- Way-Stop	26
Visibility - General	4
Safety - General	7
Speed - General	25
Bike/Pedestrian Usage - General	4

## Survey Questions and Answers

What are your thoughts and opinions on the Single-Lane Roundabout alternative (Alt. 2)?				
(i.e., Do you prefer this alternative over the All-Way Controlled alternative? What do you				
like/dislike about this option?, etc.)				
Best option	Waste of tax dollars	Love it		
People don't know how to	this is a waste of tax dollars and	Harder to navigate for some as		
correctly navigate a 4 way stop	should not be a consideration in	the roundabouts and their exits		
in town this will be no	this rural locale.	can be confusing.		
different.				
I prefer the roundabout as it	The single lane roundabout is a	Alt. 2 would create further		
would keep traffic moving but	great option. Combined with a	issues and both all-Way and Alt.		
slow it down. It may take some	speed limit it will effectively	2 would not be beneficial in		
reasonable time for drivers to	slow down traffic. By far the	addressing the issues, but		
adapt to a new situation but it	best choice of the offered	create further issues.		
can be done.	options.			
Best alternative	Absolutely not. Expensive,	People don't understand		
	ineffective, and unnecessary.	roundabouts and could increase		
		frustration		

I favor this option over Alt 3	I live in Story and go through	I am in favor of a single-Lane
because traffic continues to	this intersection often. The	Roundabout (Alt 2) traffic will
flow. Other four-ways stops in	merge from 87 is dangerous and	continue to flow smoothly once
Sheridan really back-up (e.g.	because of the angle, difficult	people get use to the idea. I
Thurmond and Loucks). Round	to see on coming traffic while in	feel this is a better option than
abouts that have been installed	the process of merging. I would	a 4 way stop because people
in Northern Colorado work	not mind a roundabout however	tend to wave others threw these
nicely (N. County Rd 19 and Owl	because many people are not	stops instead of going. It
Canyon Rd).	familiar with them, they are	interrupts the flow of traffic.
, , , , , , , , , , , , , , , , , , ,	opposed.	
This appears to be the best	I am against the roundabout!	do the roundabout; looks like a
option of those listed	5	no-brainer
I don't feel a roundabout is the	NMO ROUNDABOUT. THEY ARE	I prefer the roundabout over the
best choice/alternative	VERY CONFUSING	all way stop alternative.
Makes the most sense, slows	This is the best alternative.	I like this alternativefirst
traffic but keeps it moving!		choice
As a longterm resident of the	I like roundabouts as a rule,	Prefer this alternative over
big horn area, I believe a round	they keep traffic flowing	others. Powder Horn and Big
about to be the best option. I	smoothly and reduce wait times	Horn folks may become agitated
have seen 335 go from a dirt	significantly. However I am	since they wouldn't have a
road to a busy high speed	concerned about the amount of	straight shot any longer. (Too
thorough fare, as my children	land required to add a	bad!) Will need to actually pay
reach driving age I want a safer	roundabout to a location, and I	attention at what's happening as
intersection for them and the	would hope and strongly	they traverse the intersection.
others on the road. Teens and	recommend that this option	Can this be designed to
55+ is a bad combination. Teens	only be pursued with the full	accommodate a future double-
and icy roads with a stop sign or	approval and appropriate	lane design?
traffic signal seems worse.	compensation of all affected	
	landowners.	
I absolutely despise	I think this is the best option. It	I do not care for roundabouts. I
roundabouts!! The people that	will keep traffic flowing better	believe in the end, this will
do not obey the rules now will	than all way stops. I really like	cause more confusion and
still not with that waste of	the roundabout option as I will	delay. Currently 10-15 second
money and time.	feel much safer going through	wait time is not a problem.
-	the Y.	
I like roundabouts	noway	Roundabout is a good idea
I believe a roundabout is the	This is my preferred option,	I do not care for this, although
best alternative to what is	they seem to work well where	it could help those traveling
currently in place there	I've used them	east/west
I would rather see nothing done	Single lane for trucks with	NO NO NO . Unsafe, hard to
than a roundabout.	trailers is dumb	know what to do
I prefer the roundabout	Prefer Roundabout. Easy to	I think the roundabout is the
concept. It also saves fuel.	use, slows traffic, keeps traffic	best way as the flow of traffic
	moving	will not stop
prefer the roundabout	I don't like roundabouts	No
I have used single lane	I like the roundabout option	I prefer the Single-Lane
roundabouts in other places.	best. It has the best options for	Roundabout - it will make the
· · · ·		•

Thou are intuitive to use and d	cofoti and time -	ostrictions	intersection refer during hum
They are intuitive to use, speed traffic flow and reduce crashes.	safety and time r		intersection safer during busy
Win-win-win.	do not like the traffic signal option, as it makes no attempt		periods but not disrupt traffic during slow periods
<b>W</b> III- W III- W III.			during slow periods
	at controlling peo the light.	spre who ignore	
I would like to see the numbers	The Roundabout	is my proferred	Of all of the options, I believe
on putting the road back to the	choice, for a very		that this one is the best.
original design and installing the	reason. Stopping		People in Sheridan aren't used
stop sign back on the highway	not efficient. T	•	to this type of traffic control,
from Big Horn. If that is not	are in heavy use		however once they become
comparable safety wise then	areas in Billings M	-	accustomed to it, they will
the roundabout is probably the	traffic moves, sto	•	become more favorable. Many
best option unfortunately.	Way stop just to		also have some limited
best option and and acty.	logical.		exposure, with West Billings, so
	togicut.		adoption may come faster.
I like the roundabout option. I	Yes please. Ease:	s flow of	I think this would be fine - so
think they work well in Billings	traffic! 87 is the		long as pickups with 40' trailers
and are safer than all way	never should have	• •	can manuever safely
stops.	to begin with		
A roundabout would add	Roundabouts are	significantly	This does not seem like an
confusion and more accidents	better than the o	other controlled	environment where a
	alternatives.		roundabout would be the best
			solution.
Would prefer this alternative.	roundabout best		No
nor a good option. Alt #2. Gov	Terrible idea. Co	ompletely	No I do not like the roundabout
nor a good option. Alt #2. Gov fasting	Terrible idea. Co dislike.		No I do not like the roundabout option
nor a good option. Alt #2. Gov fasting Roundabout - less maintenance	Terrible idea. Co dislike. NO - WE DO NOT	NEED TO	No I do not like the roundabout option I do not support the Roundabout
nor a good option. Alt #2. Gov fasting Roundabout - less maintenance and efficient	Terrible idea. Co dislike. NO - WE DO NOT SPEND THAT KIN	NEED TO	No I do not like the roundabout option I do not support the Roundabout option over a 4-way stop.
nor a good option. Alt #2. Gov fasting Roundabout - less maintenance and efficient This looks to be far and away	Terrible idea. Co dislike. NO - WE DO NOT SPEND THAT KIN The Roundabout	NEED TO D OF MONEY option is	No I do not like the roundabout option I do not support the Roundabout option over a 4-way stop. I prefer this over Alternative 3.
nor a good option. Alt #2. Gov fasting Roundabout - less maintenance and efficient This looks to be far and away the best alternative. No	Terrible idea. Co dislike. NO - WE DO NOT SPEND THAT KIN The Roundabout completely misgu	NEED TO D OF MONEY option is uided and not	No I do not like the roundabout option I do not support the Roundabout option over a 4-way stop. I prefer this over Alternative 3. Roundabouts are an efficient
nor a good option. Alt #2. Gov fasting Roundabout - less maintenance and efficient This looks to be far and away the best alternative. No stopping and waiting.	Terrible idea. Co dislike. NO - WE DO NOT SPEND THAT KIN The Roundabout completely misgu fitting for the situ	NEED TO D OF MONEY option is uided and not uation.	No I do not like the roundabout option I do not support the Roundabout option over a 4-way stop. I prefer this over Alternative 3. Roundabouts are an efficient means to maintain traffic flow.
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nor a good option. Alt #2. Gov fasting Roundabout - less maintenance and efficient This looks to be far and away the best alternative. No stopping and waiting. I would not be in favor of a single lane roundabout. They	Terrible idea. Co dislike. NO - WE DO NOT SPEND THAT KIN The Roundabout completely misgu fitting for the situ This is the best a bone and head o	NEED TO D OF MONEY option is uided and not uation. Iternative. T- n accidents are	No I do not like the roundabout option I do not support the Roundabout option over a 4-way stop. I prefer this over Alternative 3. Roundabouts are an efficient means to maintain traffic flow. I prefer this option to control traffic. Having used them in
nor a good option. Alt #2. Gov fasting Roundabout - less maintenance and efficient This looks to be far and away the best alternative. No stopping and waiting. I would not be in favor of a single lane roundabout. They are confusing to anyone,	Terrible idea. Co dislike. NO - WE DO NOT SPEND THAT KIN The Roundabout completely misgu fitting for the situ This is the best a bone and head o eliminated and th	NEED TO D OF MONEY option is uided and not uation. Iternative. T- n accidents are here is less	No I do not like the roundabout option I do not support the Roundabout option over a 4-way stop. I prefer this over Alternative 3. Roundabouts are an efficient means to maintain traffic flow. I prefer this option to control traffic. Having used them in several other cities i find it to
nor a good option. Alt #2. Gov fasting Roundabout - less maintenance and efficient This looks to be far and away the best alternative. No stopping and waiting. I would not be in favor of a single lane roundabout. They are confusing to anyone, particularly tourists or people	Terrible idea. Co dislike. NO - WE DO NOT SPEND THAT KIN The Roundabout completely misgu fitting for the situ This is the best a bone and head o eliminated and th indecision about	NEED TO D OF MONEY option is uided and not uation. Iternative. T- n accidents are here is less what the other	NoI do not like the roundabout optionI do not support the Roundabout option over a 4-way stop.I prefer this over Alternative 3.Roundabouts are an efficient means to maintain traffic flow.I prefer this option to control traffic. Having used them in several other cities i find it to be the most logical option for
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nor a good option. Alt #2. Gov fasting Roundabout - less maintenance and efficient This looks to be far and away the best alternative. No stopping and waiting. I would not be in favor of a single lane roundabout. They are confusing to anyone, particularly tourists or people not used to using them. Keep it the way it is.	Terrible idea. Co dislike. NO - WE DO NOT SPEND THAT KIN The Roundabout completely misgu fitting for the situ This is the best a bone and head o eliminated and the indecision about vehicle is going to round about is the	NEED TO D OF MONEY option is uided and not uation. Iternative. T- n accidents are here is less what the other o do. e answer	NoI do not like the roundabout optionI do not support the Roundabout option over a 4-way stop.I prefer this over Alternative 3.Roundabouts are an efficient means to maintain traffic flow.I prefer this option to control traffic. Having used them in several other cities i find it to be the most logical option for this intersection.I prefer a Roundabout.
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trailers to navigate. I would support an All-Way controlled alternative.	problems for people turning when they fail to yield right of way.	
The single-lane roundabout alternative is almost certainly the best option. It decreases wait times at		
intersections when there is little traffic when compared to the all-way controlled alternative, while		
also increasing safety for drivers/pedestrians coming to the intersection from all directions. The		
roundabout also offers less confusion to drivers over a four-way stop as there is only one direction of		
traffic flow to check before proceeding into the roundabout.		

What are your thoughts and opinions on the All-Way Stop-Controlled intersection
alternative (Alt. 3)? (i.e., Do you prefer this alternative over the Single-Lane
Roundabout? What do you like/dislike about this option?, etc.)

	iat do you like/distike about ti	iis optionit, etc.)
All-way stop would be good but	The 4 way stop option will just	This is a better choice than the
it would slow traffic down	create more congestion &	roundabout. However, in the
substancially. Athough that	traffic jams for cars entering &	presented design the access of
would help lesson encounters	exiting the Big Horn Y	332 is taking more land than
with wildlife.		necessarycost.
If they can't merge from 87 to	All way stop would drastically	I think this is a good option but I
Coffeen then they won't be able	slow traffic flow. Not good for	think traffic will flow better if
to handle a roundabout.	now or the future.	roundabout is utilized.
worst option	no	No
I think this would frustrate	More common and easier to	all-way stop is inferior to
many folks	understand and navigate.	roundabout; drop it
If the choice is between this	No, I prefer Alt. 2. Traffic can	I prefer this method the most.
and a roundabout, then this.	really back up at four-way stops	There would need to be a
But this is inefficient and also	as people try to figure out whos	change in speed limit on the
unnecessary	turn it is.	road.
YES. I THINK IT IS THE BEST	I completely feel that	I dislike this and it would create
ANSWER NEXT TO STOPLIGHTS	Alternative #3 is the best	a disturbance in the flow of
	choice.	traffic.
Much better option, have to also	Dont like this ideaone person	I do not think a 4 way stop
have slower speed limits, no	runs the stop sign and you have	would benefit anyone and
matter the option.	a high speed T-bone.	create further traffic congestion
As a user of the road, it appears	I prefer the two stop signs. I	I feel like this would lead to
that there is unbalanced traffic	would especially like the	more backed up traffic.
and therefore the traffic	removal of the merge lane! in	Especially with the Gas station
conditions do not meet warrants	my opinion it is extremely	entrances so close to the
for an all way stop controlled	dangerous!	intersection.
intersection per the MUTCD.		
noway	Don't like this	Second best choice
I would rather see nothing done	This option without a light is	do not prefer the all way stop
than a four way stop.	ridiculous	option
Don't like all stop sometimes	I do not believe this is a	All-Way Stop-Controlled would
little traffic on side roads and	reasonable solution for a busy	be safer than current
full stop puts side roads as same	highway such at HWY 87. This	intersection but too disruptive
priority as main highway	will not alleviate the issue of	during slower periods

	visibility from the Big Horn Y or Maverick Lane.	
Too much traffic there for a four way stop.	I don't like alt 3 either. Leave the Y the way it is.	No, impedes travel times for commuters.
Roundabouts are easier to negotiate than 4 way stops.	Second choice well behind the roundabout.	All way stops are too easy to miss and will cause backups.
I think people will run the stop sign and that's more dangerous than the roundabout.	Dont' like. Roundabout is better as it keeps traffic moving	terrible idea to have a stop as i believe it will cause rear end crashes
No	This is a recipe for disaster.	Hate the all way stop!
Prefer	not preferred.	not best.
I do not prefer this alternative as it leads to certain wait times for drivers coming from all directions even in the event of no traffic, and poses more confusion to drivers in high traffic situations than a single direction of travel roundabout would.	Absolutely NO! this will only increase the worst of the current problem which is people entering from east with their need to be in front of north- bound traffic. they seem to think that "merge" sign means stomp on the throttle.	Probably the most inefficient alternative offered. The goal in making changes to traffic patterns is not to see how many times we stop them, but rather to make the most productive changes to keep traffic MOVING.
Dislike due to the stopping and starting aspect, more room for driver miscommunication and accident	I don't like that proposal, as there is no provision for controlling someone who ignores the light.	There is nothing that I like about the roundabout. I am thinking about the majority of the population. It would not work
Would not prefer this. Having to slow down from 55mph to a stop is not desirable.	I would be in favor of an all way stop over the roundabout. They work and slow up traffic.	Not preferred, roundabout moves traffic quicker once the community gets comfortable with them.
Better, but no stop signs on highway 335	An all way stop is likely better than the roundabout.	I would prefer the all way stop option
I support a traffic light, but since you proposed an option that wasn't viable to begin with, then lets shoot for the 4-way stop please.	An all way stop is a better option than the round about. Why don't you decrease the speed limit to 30 on 87 & 335 and keep the current stop signs	I do not prefer this option. Do not think a full stop is necessary at this location and the round about will smooth traffic flow better.
Do not prefer this alternative. Would seem to back up traffic during busier times. Lots of starting/stopping and rear end collisions.	All way stop is the best way to slow down traffic but traffic enforcement will be important on all options because we have all seen the 60 and 70 mph drivers	This is a nuisance especially at low travel times, and stop signs in remote areas of Wyoming are sometimes ignored as there is no enforcement. The structure of the roundabout forces enforcement.
Keep it the way it is.	No	Roundabout
I think the All-Way Stop- Controlled alternative is the best solution and would be the	This would be terrible for several reasons. People already have a hard time with a simple	Good luck! Anything will be better than the dangerous situation we have now. I've

easiest to navigate. At some point a traffic signal will be required at this location at the population continues to grow. When it is time for a traffic signal to be installed, the intersection will already be configured to easily put in a traffic signal dot's true to be	4-way stop, adding in all those turn lanes is going to turn this in to a nightmare at peak times. And are there going to be flashing lights that let you know there is a stop to further disrupt the rural darkness? This will create new problems. And it	seen the public outcry and resistance in other places when roundabouts are put in. It takes a while but people get used to them in time and shut up. They are used extensively in Europe and make sense to me, slowing traffic but keeping it moving, no
traffic signal. Let's try to be forward looking in this project and prepare for the future.	requires too much adjacent private property.	worries about power outages and maintenance of traffic lights.
NO - NOT WHEN THE PROBLEM IS ONLY CERTAIN TIMES OF DAY	No, people in this county don't know how 4-way stops work.	I think would slow traffic more than needed
All-way stop would be very unnecessary when travels are low.	I prefer the single lane roundabout. Drivers tend to run stop signs or ignore the rules.	I don't like this option nearly was well.
Would slow traffic too much	i do not like this idea	Roundabout is better.

Do you have any thoughts you'd like to share with the project team?			
a 45 mph speed limit should be	Roundabouts are poor traffic	North end of the single merge	
enforced immediately nearing	control choices in rural areas."	lanesimply installing a stop	
& through the intersection.		sign would help immensely.	
Go back to the design board.	Thank you for reading my input	A roundabout will cause a bit of	
Leave it as it is for now. DROP	and considering the All Way-	initial grumbling from some	
THE OVER EMPNASIS ON	Stop Controlled Stop signs. If	folks I suspect. Over time	
PEDESTRIAN AND BIKE TRAFFIC.	you have any questions feel	everyone will get used to it and	
They are nonissues in this	free to contact me .	I think it will save lives.	
locale.			
In summary: anything that	"This intersection should be a	However, I feel the best choice	
would slow down traffic and	significantly lower priority than	would be a 4 Way Stop Sign at	
make the intersection safer.	the Big Horn Ave/Brundage	the area at the Big Horn Y. That	
Such a big increase of traffic	Lane intersection. At the	would hopefully force people to	
since the last 15-20 years.	minimum, that should be a 4-	slow down/stop and alleviate	
Current sitaution at this	way stop. Ultimately, it needs a	some of the issue of speeding	
intersction is very outdated and	stoplight. But not a	and vehicles not slowing down	
dangerous.	roundabout.	or yielding at that merge lane.	
I do not like either alternative.	Something needs to be done.	"As a long time resident of Big	
What we need is for people to	Traffic flows anywhere from 40-	Horn ( since 1992), I feel that	
obey the laws that are in place	60 mph. People come flying	the choice of Alternative #3	
if that means placing an officer	onto the highway from story.	would be the best solution. I've	
or two at that intersection for a	The big horn y gas station has	observed a lot of vehicles	
while then do so. Don't pull out	access that is not safe. Their	through the years that are	
unless you have adequate room	entrance needs to be changed	coming from Hwy 87/ Story that	
and learn to merge. And the gas	to allow people to properly	fail to slow down and/or yield	
station needs to deal with their	slow down and have a turning	as they're coming from that	
sign. The base is too close to	lane. Coming down from Big	direction and heading to	

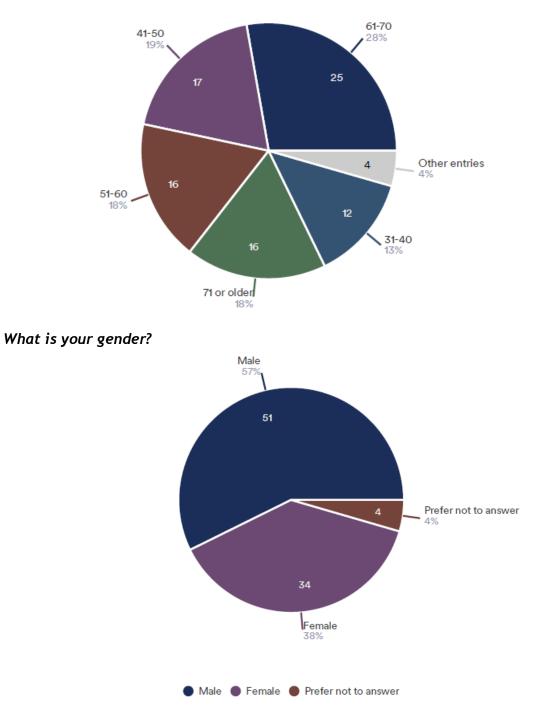
the road and is huge. You	Horn Ave, turning towards Big	Sheridan onto Coffeen Avenue.
cannot safely see past it. I feel	Horn, has a blind turn with	Coming from Big Horn the
this also contributes to people	limited view. This area is very	speed limit is 55 mph (I'm not
just going when they come to a	scary driving especially knowing	sure what the speed limit is on
stop at the intersection.	my kids drive that intersection	Hwy 87) and it is crucial to
	multiple times each day.	watch for the traffic coming
		from Hwy 87/Story direction.
With all the new homes built in F	Big Horn the sheer number of vehic	
	t down the street from this interse	
	vait several minutes to pull out of	
	-	
•	eak times you will have traffic bac	
	aveling Coffeen Ave to 335 and rev	•
	string of a dozen or more vehicles	
	intersection with either alternative	will result in a lower speed limit
which in return will cause traffic		
Bike ramps would be my	"thanks for your work so far	the bighorn y is so dangerous
recommendation."		
Go with the roundabout	let's put in the roundabout	I like this format for collecting
	asap, save lives and injuries"	feedback.
I do not see either of these	Either leave the intersection	I do not like this, as traffic will
solutions alleviating the issues	the way it is or add a	likely get backed up during
of visibility which are most	roundabout. A 4 way stop	peak hours. A good example of
notable at the Big Horn Y	would not work well in my	this is the corner of Loucks and
station and from Maverick Lane.	opinion. People in this town do	Brooks or Dow and Brooks. This
The highway intersection is not	not know how to drive. Even	alternative is better than doing
the issue. These 2 approaches	though they are trying to be	nothing, however.
are the problems.	polite, they confuse everyone	nouning, nowever.
are the problems.	else at the intersection. Thank	
	you for your time.	
"Please consider adding a bike	I don't mind the intersection as	Would it be possible to move
entrances and exits to	is. I have never had an issue	the bike crossing to the west on
sidewalks before roundabout.	with approaching the	girls school road? perhaps 100'
		•
This would make the sidewalks	intersection from every	west of the intersection. I
multiple use for more than just	direction and I personally don't	would also like to see speed
the crossings. This would allow	think it's a problem. The people	reduction on 287 approaching
bikers to get into a safe zone	who don't know how to drive	the yield intersection
quicker and not have to bike all	properly are the problem, and	immediately.
the way down into the	unfortunately one encounters	
intersection to reach the	them at every intersection in	
crosswalk ramps.	town. You can't limit the idiots	
	unfortunately.	
Not enough traffic for a light	Appreciate the study and	make it was in 1985. stop at
system? I guess we will never	opportunity to comment. Use	junction or take big horn ave.
see lights on the interstate off	the intersection every day!	no need to widen coffeen ave.
ramps by Maverick also. Wow		
"Roundabouts work, go to the	the road to Big Horn as the	Don't be afraid to put a
west end of Billings Mt. Very	secondary. That is what	roundabout in, the good people
	secondary. That is what	i sandabout in, the good people

high traffic numbers and traffic keeps moving.	worked for years with very little problem that we know of.	of Sheridan County will figure it out."				
It should have never been changed just because money wanted it.	What are the impacts during construction? Will traffic be re- routed and if so how and where?	I think you are wise to proceed slowly with a new idea and wait for the buy in from the public				
A modified traffic light approach could be the "R Intersection" such as is used in other states. I have seen them in Bexar County Texas on a very busy road and they seem to work well.	Roundabouts are a proven remedy. If possible, give facts about accident reductions on other similar constructed roundabouts.	The roundabout should be put in ! Its the best of the options. Although putting it back to how it used to be is best! Why should hwy 87 be interrupted at all!				
Our oldest grandson is 19 years old and I remember years ago when he was about 3 years old and was in his car seat in the back seat passenger side in my Yukon and we were heading to Sheridan from Big Horn. There was a vehicle coming from Hwy 87 and entering that merge lane. They did not slow down or yield to my vehicle coming from Big Horn. I had to lay on the horn and they finally slowed down a little. Obviously, it really scared me with my precious grandson in the back seat.	I would like to see the traffic data, especially the crash data and how many injury accidents have occurred and how this intersection compares to the statewide average for accidents with injuries. Without seeing the traffic report, my preference is to do nothing. The single lane roundabout is probably the only viable solution if an improvement is warranted. I do wonder if the funds for this project could be utilized at another location that has more accidents or even fatalities.	I just heavily favor the roundabout proposal over the traffic light or stop sign ideas. I experienced roundabouts in Florida before I moved here in 2005, and they are great for allowing continuous flow. Billings is experiencing them now on Shiloh road west of town. And it is easier than the light controlled intersections everywhere else. There is a valid reason for Europe, primarily Great Britain to be leading the way in roubdabouts.				
Either a roundabout or a 4 way stop would be idiotic. This is the best you could come up with? How about simply reducing the speed limit prior to the Y in all 4 directions. I travel this way every day. I hardly ever see bikes nor pedestrians. I always reduce my speed when approaching the Y as 55 is too fast there. Speed should drop down to 45 in all directions prior to the Y. The most fearful I am of the intersection (I come from Knode Ranch) is the idiots merging on to North bound 335 from 87. These people hit incredibly high speeds while merging and don't really merge. They force their way in to 335 and quite a few times immediately turn into the Gas Station. Forcing the North bound 335 traffic to stop for them. Perhaps a county sheriff there in the morning could curb some of this and establish new behaviors? Or perhaps extend the merge lane so it is well beyond the gas station? I would also remove some of the obstacles the Gas station has along 335 so people coming off Big Hom Road (332) going South can better see the 335 Southbound traffic coming at them and be able to make better choices. Don't fix what isn't broken, simply enhance what exists. Reduce the speed in both directions on 335 and the merge lane, then extend the merge lane or consider removing the merge lane altogether and have 87 traffic stop as well. But keep 335 moving because there is more and more traffic on it as Powder Horn and Big Horn continue to build."The road needs to be returned to the original with Hiway 87 as the main highway and						

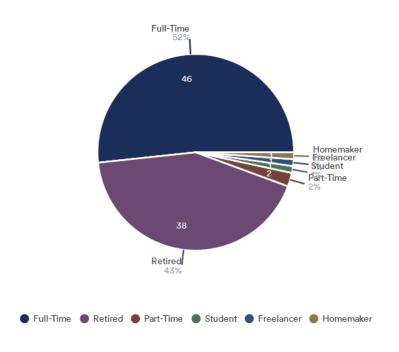
to warrant the significant	come to a complete stop would							
expense of changing it.	accomplish this.							
I drive this intersection multiple times a day commuting from Big Horn. The problem is people can't								
drive. They dont know how to merge, they think the spped limit is 45 heading south to this								
	on to 87 going to Story slow down							
	g and possible fender benders. I hav	÷						
	nink the roundabout is the best way							
-	e will be may stuggles initially. I w	-						
-	because nobody pays attention and	, .						
	cern with this project is how this w							
	I hope you consider consulting wi	th her about the traffic flow and						
needs of her business. Thank you								
I would like the statistics on	the yield decreases the most	Put it back to the way it was.						
how many accidents have	dangerous intersection in the	Northbound traffic on 335						
occurred at the Y?	county.	yields to traffic from story.						
Alt 1-No Build is my preference.	Again, a roundabout would be a	My opinion is Alternative #1, no						
	disaster"	build. This is not an issue.						
We need to have more roundabo	uts and this is a good place to star	t. Folks will come around to it						
eventually. We need to have a p	roactive traffic management appro	bach to deal with the increasing						
number of tourists and transplan	ts that drive twice the speed limit I	because the place they came						
from just makes more lanes and	bigger intersections and it doesn't	solve the actual problem.						
I drive a lot in California which	options 2 and 3 would both be	I am glad to see a roundabout is						
has added roundabouts to	an improvement but	being considered. They work						
nearly every intersection	enforcement of traffic	well in intersections with						
feasible, and the traffic flow is	regulations is needed	similar traffic rates, even high						
immensely improved.	desperately	rates, in other cities.						
It seems like the best solution	SLOW DOWN THE TRAFFIC NO	As the intersection is currently,						
would be to decrease the speed	NEED TO BE 55 MPH ESPICALLY	drivers have to swivel their						
limit to 30 and leave the 2 stop	WHEN 1/2 MILE TOWARDS	heads at an impossible angle to						
signs like they are. The total	TOWN ITS 45 WHY SPEED IT UP	check for southbound traffic						
reconstruction of this	GOING INTO A DANGEROUS	from Big Horn. The large curve						
intersection to benefit the	INTERSECTION? CHANGING	could be straightened a bit. It's						
inconvenience of a few seems	SPEED LIMIT SIGNS IS THE MOST	especially risky in winter.						
like a waste of funds. The	COST EFFECTIVE AND WOULD							
"dangers" are completely	REDUCE THE HAZARDS.							
overexaggerated.								
	about installed in my home state d	ue to a unique 5-way						
-	to flow smoothly even when cars							
· · · · · · · · · · · · · · · · · · ·	-							
directions at once. I think that there is a slight learning curve for those new to roundabouts, but after a few times driving through one, they become second nature and easy to navigate. The locals								
in my hometown appreciate not having to wait at stop signs or traffic signals, and the roundabout								
· · ·	$\mathbf{h}$ that used to be present at the 5-v							
There is not a north/south	Another more beneficial	I've been driving through this						
visability issue. Completely	alternative would be reducing	intersection daily for 24 years						
removing the single merging	the speed from US 87 from 55	and knowing the local traffic						
lane ( would be a huge	mph to 45 mph. This would	and drivers I would bet money						
improvement ) and possibly	allow traffic from US 87 to	that a roundabout would cause						
moving the stop sign slightly		as many "close calls" as we have						
		as many close calls as we lidve						

south so it is off-set from Big Horn Avenue may help. Lowering the speed limit at the initial intersection may help also. Forcing traffic from the east to stop is the better thought. Get rid of all of the out-of- staters that have moved to Sheridan and ruined the area	reduce their speed and merge safely onto US 335. Did you obtain any data that a stop signs would work? The speed limit to Big Horn is too	now. A traffic light is inevitable in the long term with current population growth rates, but if "current" traffic volume can't justify a 4-way light, let's opt for the best alternative: A FOUR WAY STOP. Thank you! Please let WYDOT know a stoplight at Brundage and Bighorn would be greatly
and A LOT of the local problems	fast, and dangerous, especially	appreciated.
will be solved	with all the deer in the area." rea that merges onto Coffeen Ave	
Yield sign and is about to merge, traffic is coming from Big Horn. I to get onto Cofffeen Ave the othe	it's very difficult to crank your hea My husband and I drove onto Hwy er day to see how it felt to try to lo ne was straighter so a person woul	ad enough to look and see what 87 and then took the merge lane bok again at the traffic coming
Roundabouts can be so	Main issue for me -vehicles	Yes. 1) Please spread the
confusing, especially for older	traveling north (towards	acquisition of land evenly so no
drivers as Wyoming does not	Sheridan) from Bighorn and	one landowner is overly
have these everywhere. There	Story that want to turn left into	impacted. 2) Also suggest
would be confusion over who	the gas station need to have a	lowering the overall speed limit
gets to move and who doesn't.	merge lane or something that	from Woodland Park all the way
You must keep in mind we in	allows them to get out of way	to Big Horn on Highway 87 to
Wyoming are an aging population, and to say, well	of vehicles traveling behind them. Definitely would help	the Y and from the Y along 335 to 45 MPH. So dangerous for
don't let them drive anymore if	traffic flow going towards	many of us to cross or access
they can't follow directions.	Sheridan. Or come up with a	the road. This is especially a
What about a Stop sign on the	different alternative of	concern during rush hours. 3)
road coming from Story and to	accessing the gas station. The	Can the county impose a ban on
Story. That would stop one	gas station access is the biggest	"jake brakes," near this
direction and cause them to	problem at the intersection as	intersection? It is noxious to
make sure the way is open to	for traffic flow.	the nearby homeowners.
proceed. It doesn't have to be complex.		Thanks.

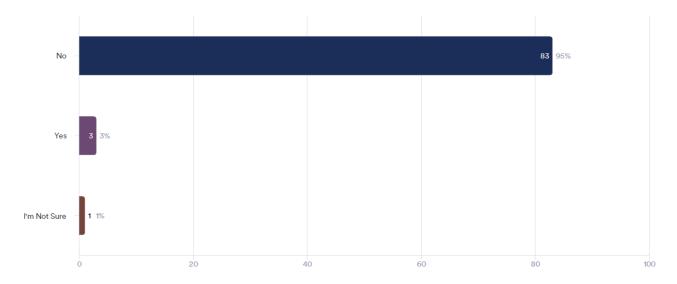
# What is your age?



### What is your employment status?



Are you a recipient of any government aid programs (SNAP, unemployment, etc.)?



Appendix E. Speed Study Forms

# SPEED STUDY Wyoming Department of Transportation

CITY: Sheridan SPEED LIMIT: 55 MPH OBSERVER: 0 #######

95th PERCENTILE = 59

COUNTY: Sheridan START TIME: 1:54 PM END TIME: 1:46 PM

ROUTE: WY 335 DIRECTION: SB/NB Comb. LOCATION: SW of Big Horn Y WEATHER: COMMENTS:

nnnnnn				
00550	FREQUENOV	ACUM		
	FREQUENCY 7	101AL 7	0.0	6 FREQUENCY DISTRIBUTION
30 31	12	7 19	0.0	
32	12	30	0.1	
32	13	43	0.1	
33 34	22	43 65		
34 35	46	111	0.3 0.5	
36	40 55	166	0.5	
30	76		1.1	
38	94	242 336	1.1	
30 39	94 99	336 435	2.0	
39 40	99 184			
		619	2.9	
41	225	844	3.9	
42 43	306 376	1150	5.4	
		1526	7.1	-
44 45	524 534	2050 2584	9.5 12.0	
				-
46	710	3294	15.3	
47	834	4128	19.2	-
48	1030	5158	24.0	
49 50	1254 1409	6412 7821	29.9 36.4	-
50 51				-
	1620	9441	44.0	-
52	1705	11146	51.9	-
53	1702	12848	59.8	-
54	1891	14739	68.7	-
55	1799	16538	77.0	
56	1459	17997	83.8	-
57	1090	19087	88.9	-
58	834	19921	92.8	-
59	591	20512	95.5	
60	346	20858	97.2	-
61	237	21095	98.3	-
62	132	21227	98.9	
63	87	21314	99.3	-
64 65	52	21366	99.5	
65	38	21404	99.7	
66	22	21426	99.8	
67	22	21448	99.9	
68 60	8	21456	99.9 100 0	
69 70	6	21462	100.0	
70	6	21468	100	
	E SPEED = 51 CENTILE = 52			0         5         10         15         20         25         30         35         40           PACE SPEED = 48 to 57         STANDARD DEVIATION = 5.2           VEHICLES IN PACE = 14959         % EXCEEDING POSTED LIMIT = 2
67th PEF	RCENTILE = 54	ļ		% IN PACE = 70
85th PEF	RCENTILE = 57	,		% BELOW PACE = 19 RECOMMENDED SPEED LIMIT = 5

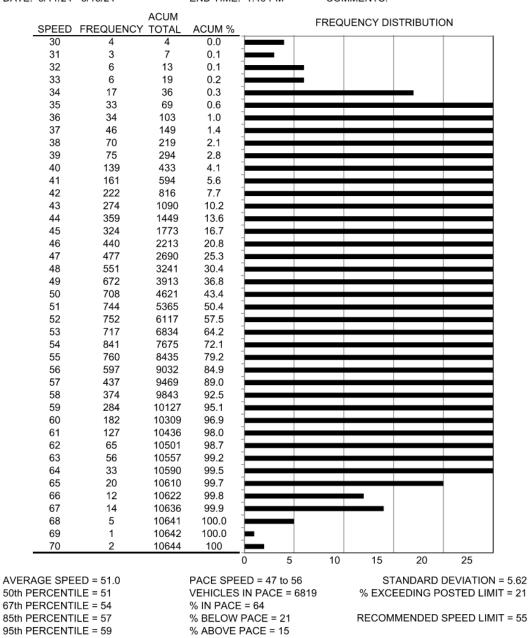
% ABOVE PACE = 11

# SPEED STUDY

Revised 3/4/11

### Wyoming Department of Transportation

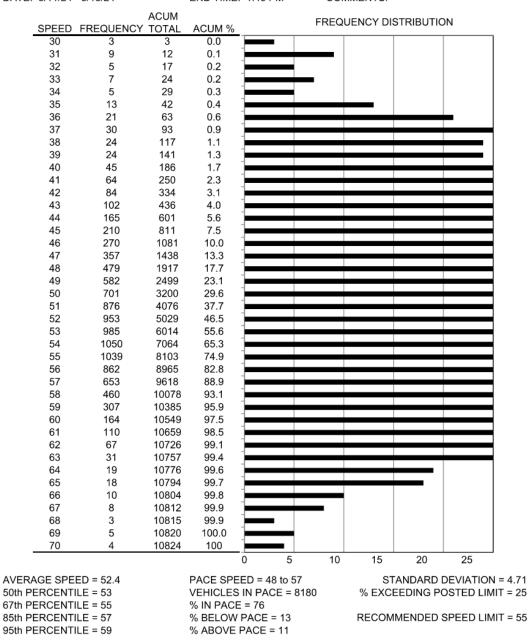
CITY: Sheridan SPEED LIMIT: 55 MPH OBSERVER: DATE: 3/11/24 - 3/15/24 COUNTY: Sheridan DIRECTION: Southbound START TIME: 1:54 PM END TIME: 1:46 PM ROUTE: WY 335 LOCATION: SW of Big Horn Y WEATHER: COMMENTS:



# SPEED STUDY Wyoming Department of Transportation

CITY: Sheridan SPEED LIMIT: 55 MPH OBSERVER: DATE: 3/11/24 - 3/15/24 COUNTY: Sheridan DIRECTION: Northbound START TIME: 1:54 PM END TIME: 1:46 PM

ROUTE: WY 335 LOCATION: SW of Big Horn Y WEATHER: COMMENTS:

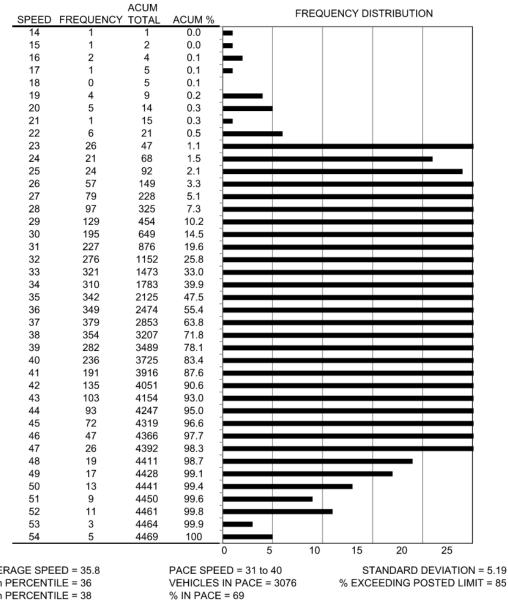


CITY	Obseiden		
CITY_	Sheridan		
COUNTY_	Sheridan		
ROUTE	WY 335		
LOCATION	SW of Big Horn Y		
POSTED SPEED LIMIT	55		
LOWEST SPEED RECORDED	30		
HIGHEST SPEED RECORDED	70		
COMMENTS			
DIRECTION 1	Southbound	DIRECTION 2	Northbound
OBSERVER		OBSERVER	1049 8400-254-25-2543 2-2417
DATE	3/11/24 - 3/15/24	DATE	3/11/24 - 3/15/24
START TIME	1:54 PM	START TIME	1:54 PM
END TIME	1:46 PM	END TIME	1:46 PM
WEATHER		WEATHER	
	NUMBER OF OBSERVA	TIONS AT SPEED PER	
	DIREC	TION	
SPEED	Southbound	Northbound	
30	4	3	
31	3	9	

30	4	3
31	3	9
32	6	5
33	6	7
34	17	5
35	33	13
36	34	21
37	46	30
38	70	24
39	75	24
40	139	45
41	161	64
42	222	84
43	274	102
44	359	165
45	324	210
46	440	270
47	477	357
48	551	479
49	672	582
50	708	701
51	744	876
52	752	953
53	717	985
54	841	1050
55	760	1039
56	597	862
57	437	653
58	374	460
59	284	307
60	182	164
61	127	110
62	65	67
63	56	31
64	33	19
65	20	18
66	12	10
67	14	8
68	5	3
69	1	5
70	2	4
	-	

# SPEED STUDY Wyoming Department of Transportation

COUNTY: Sheridan ROUTE: WY 332 CITY: Sheridan LOCATION: North of Big Horn Y DIRECTION: Northbound SPEED LIMIT: 30 MPH OBSERVER: START TIME: 1:54 PM WEATHER: DATE: 3/11/24 - 3/15/24 END TIME: 1:46 PM COMMENTS:



RECOMMENDED SPEED LIMIT = 40 POSTED SPEED IS TOO LOW

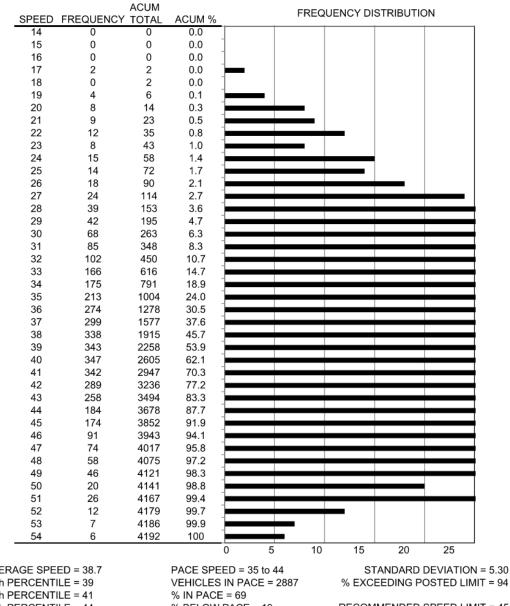
% BELOW PACE = 15 % ABOVE PACE = 17

AVERAGE SPEED = 35.8 50th PERCENTILE = 36 67th PERCENTILE = 38 85th PERCENTILE = 41 95th PERCENTILE = 44

# SPEED STUDY Wyoming Department of Transportation

CITY: Sheridan SPEED LIMIT: 30 MPH OBSERVER: DATE: 3/11/24 - 3/15/24 COUNTY: Sheridan DIRECTION: Southbound START TIME: 1:54 PM END TIME: 1:46 PM

ROUTE: WY 332 LOCATION: North of Big Horn Y WEATHER: COMMENTS:



RECOMMENDED SPEED LIMIT = 45 POSTED SPEED IS TOO LOW

% BELOW PACE = 19 % ABOVE PACE = 12

AVERAGE SPEED = 38.7 50th PERCENTILE = 39 67th PERCENTILE = 41 85th PERCENTILE = 44 95th PERCENTILE = 47

# SPEED STUDY Wyoming Department of Transportation

CITY: Sheridan SPEED LIMIT: 30 MPH OBSERVER: 0 #######

85th PERCENTILE = 43

95th PERCENTILE = 46

COUNTY: Sheridan DIRECTION: NB/SB Comb. START TIME: 1:54 PM END TIME: 1:46 PM

ROUTE: WY 332 LOCATION: North of Big Horn Y WEATHER: COMMENTS:

PEED 14	FREQUENCY 1	TOTAL 1	ACUM %				- I	FREQ	UENCY		RIBL	JION		
15	1	2	0.0	-E										
16	2	4	0.0											
17	3	7	0.1											
18	õ	7	0.1	-										
19	8	, 15	0.2											
20	13	28	0.3					_						
21	10	38	0.4					_						
22	18	56	0.6											
23	34	90	1.0											
24	36	126	1.5											
25	38	164	1.9											
26	75	239	2.8											
27	103	342	3.9	1										
28	136	478	5.5	1							_			
29	171	649	7.5	1				_		-	_			
30	263	912	10.5	1				_		-	_			_
31	312	1224	14.1	1						-	_			_
32	378	1602	18.5	1						-	_		-	_
33	487	2089	24.1							-	_		-	_
34	485	2574	29.7							-	_		-	_
35	555	3129	36.1							-	_			
36	623	3752	43.3							-	_			_
37	678	4430	51.1					_		-	-			
38	692	5122	59.1	]						-	_			
39	625	5747	66.4					_		-	-			
40	583	6330	73.1					_		-	-			
41	533	6863	79.2							-	-			
42	424	7287	84.1							-				
43	361	7648	88.3	_				-			-			
44	277	7925	91.5	_				-			-			
45	246	8171	94.3					-			-			
46	138	8309	95.9	_										
47	100	8409	97.1											
48	77	8486	98.0											
49	63	8549	98.7	-										
50	33	8582	99.1	_										
51	35	8617	99.5	-										
52	23	8640	99.8	-							·			
53	10	8650	99.9	-										
54	11	8661	100	0	5	10		15	20	25		30	35	40
				-					20	23				
/ERAG	E SPEED = 37	.2		PACE	SPEE	ED = 3	3 to	42			STA	NDAR	D DEVIA	TION =

% BELOW PACE = 18

% ABOVE PACE = 16

RECOMMENDED SPEED LIMIT = 45 POSTED SPEED IS TOO LOW

CITY	Sheridan		
COUNTY	Sheridan		
ROUTE	WY 332		
LOCATION	North of Big Horn Y		
POSTED SPEED LIMIT	30		
LOWEST SPEED RECORDED	14		
HIGHEST SPEED RECORDED	65		
COMMENTS			
DIRECTION 1	Northbound	DIRECTION 2	Southbound
OBSERVER		OBSERVER	
DATE	3/11/24 - 3/15/24	DATE	3/11/24 - 3/15/24
START TIME	1:54 PM	START TIME	1:54 PM
END TIME	1:46 PM	END TIME	1:46 PM
WEATHER		WEATHER	

### NUMBER OF OBSERVATIONS AT SPEED PER

DIRECTION

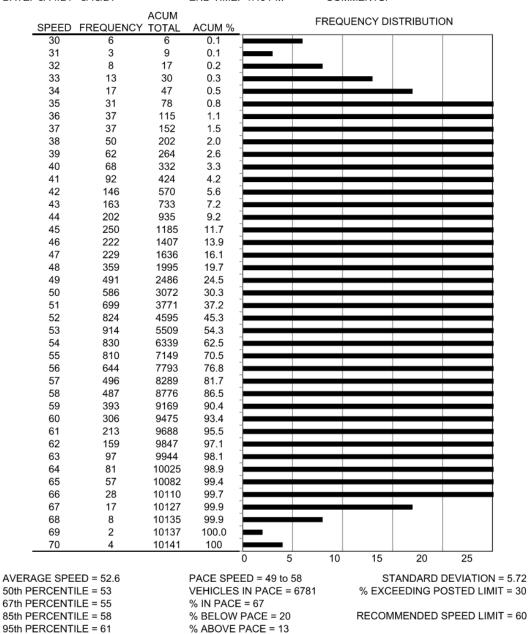
	DIRECTION					
SPEED	Northbound	Southbound				
14	1	0				
15	1	0				
16	2	0				
17	1	2				
18	0	0				
19	4	4				
20	5	8				
21	1	9				
22	6	12				
23	26	8				
24	21	15				
25	24	14				
26	57	18				
27	79	24				
28	97	39				
29	129	42				
30	195	68				
31	227	85				
32	276	102				
33	321	166				
34	310	175				
35	342	213				
36	349	274				
37	379	299				
38	354	338				
39	282	343				
40	236	347				
41	191	342				
42	135	289				
43	103	258				
44	93	184				
45	72	174				
46	47	91				
47	26	74				
48	19	58				
49	17	46				
50	13	20				
50	9	26				
52	11	12				
52	3	7				
53	5	6				

# SPEED STUDY

Revised 3/4/11

### Wyoming Department of Transportation

CITY: Sheridan SPEED LIMIT: 55 MPH OBSERVER: DATE: 3/11/24 - 3/15/24 COUNTY: Sheridan DIRECTION: Northbound START TIME: 1:54 PM END TIME: 1:46 PM ROUTE: US 87 LOCATION: US 87 South of Big Horn Y WEATHER: COMMENTS:



# Revised: SPEED STUDY Wyoming Department of Transportation an COUNTY: Sheridan DIRECTION: Southbound ROUTE: US 87 DIRECTION: Southbound LOCATION: US 87 South of Big Horn Y

CITY: Sheridan SPEED LIMIT: 55 MPH OBSERVER: DATE: 3/11/24 - 3/15/24 START TIME: 1:54 PM END TIME: 1:46 PM

WEATHER: COMMENTS:

SPEED	FREQUENCY		ACUM %	FREQUENCY DISTRIBUTION
30	15	15	0.1	
31	16	31	0.3	
32	10	41	0.4	
33	10	51	0.5	
34	28	79	0.7	
35	37	116	1.1	
36	36	152	1.4	
37	39	191	1.8	
38	59	250	2.4	
39	76	326	3.1	
40	107	433	4.1	
41	113	546	5.2	
42	161	707	6.7	
43	238	945	8.9	
44	272	1217	11.5	
45	345	1562	14.8	
46	430	1992	18.9	
47	514	2506	23.7	
48	567	3073	29.1	
49	611	3684	34.9	
50	708	4392	41.6	
51	763	5155	48.8	
52	802	5957	56.4	
53	775	6732	63.7	
54	765	7497	71.0	
55	745	8242	78.0	
56	643	8885	84.1	
57	544	9429	89.3	
58	404	9833	93.1	
59	270	10103	95.7	
60	191	10294	97.5	
61	119	10413	98.6	
62	56	10469	99.1	
63	42	10511	99.5	
64	10	10521	99.6	
65	14	10535	99.7	
66	15	10550	99.9	
67	5	10555	99.9	
68	4	10559	100.0	
69	2	10561	100.0	
70	1	10562	100	
				0 5 10 15 20 25
AVERAGE SPE	ED = 51.1		PACE SPE	EED = 48 to 57 STANDARD DEVIATION = 5.56
50th PERCENT			VEHICLES	S IN PACE = 6923 % EXCEEDING POSTED LIMIT = 22
67th PERCENT	ILE = 54		% IN PACE	E = 66
85th PERCENT	ILE = 57		% BELOW	/ PACE = 24 RECOMMENDED SPEED LIMIT = 55
95th PERCENT	ILE = 59		% ABOVE	PACE = 11

# SPEED STUDY Wyoming Department of Transportation

CITY: Sheridan SPEED LIMIT: 55 MPH OBSERVER: 0 #######

95th PERCENTILE = 60

COUNTY: Sheridan DIRECTION: NB/SB Comb. START TIME: 1:54 PM END TIME: 1:46 PM

ROUTE: US 87 LOCATION: US 87 South of Big Horn Y WEATHER: COMMENTS:

		ACUM		
SPEED				FREQUENCY DISTRIBUTION
30 31	21 19	21 40	0.1 0.2	
31	19	40 58	0.2	
32	23	56 81	0.3	
33 34	45	126	0.4	
35	68	120	0.0	
36	73	267	1.3	
37	76	343	1.7	
38	109	452	2.2	
39	138	590	2.8	
40	175	765	3.7	
41	205	970	4.7	
42	307	1277	6.2	
43	401	1678	8.1	
44	474	2152	10.4	
45	595	2747	13.3	
46	652	3399	16.4	
47	743	4142	20.0	
48	926	5068	24.5	
49	1102	6170	29.8	
50	1294	7464	36.1	
51	1462	8926	43.1	
52	1626	10552	51.0	
53	1689	12241	59.1	
54	1595	13836	66.8	
55	1555	15391	74.3	
56	1287	16678	80.6	
57	1040	17718	85.6	
58	891	18609	89.9	
59	663	19272	93.1	
60	497	19769	95.5	
61	332	20101	97.1	
62	215	20316	98.1	
63	139	20455	98.8	
64	91	20546	99.2	
65	71	20617	99.6	
66	43	20660	99.8	
67	22	20682	99.9	
68	12	20694	100.0	
69	4	20698	100.0	
70	5	20703	100	
				0 5 10 15 20 25 30 35 40
AVERAG	GE SPEED = 51	.8		PACE SPEED = 48 to 57 STANDARD DEVIATION = 5.68
	RCENTILE = $52$			VEHICLES IN PACE = 13576 % EXCEEDING POSTED LIMIT = 26
	RCENTILE = 55			% IN PACE = 66
	RCENTILE = 57			% BELOW PACE = 20 RECOMMENDED SPEED LIMIT = 55

% ABOVE PACE = 14

CITY	Sheridan
COUNTY	Sheridan
ROUTE	US 87
LOCATION J	S 87 South of Big Horn Y
POSTED SPEED LIMIT	55
LOWEST SPEED RECORDED	30
HIGHEST SPEED RECORDED	70
COMMENTS	
DIRECTION 1	Northbound
OBSERVER	
DATE	3/11/24 - 3/15/24
START TIME	1:54 PM
END TIME	1:46 PM
WEATHER	

<b>DIRECTION 2</b>	Southbound
OBSERVER	
DATE	3/11/24 - 3/15/24
START TIME	1:54 PM
END TIME	1:46 PM
WEATHER	

### NUMBER OF OBSERVATIONS AT SPEED PER

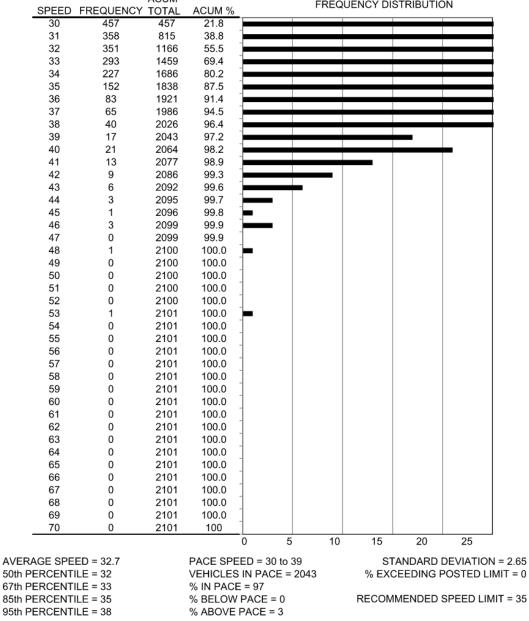
	DIRECTION			
SPEED	Northbound	Southbound		
30	6	15		
31	3	16		
32	8	10		
33	13	10		
34	17	28		
35	31	37		
36	37	36		
37	37	39		
38	50	59		
39	62	76		
40	68	107		
41	92	113		
42	146	161		
43	163	238		
44	202	272		
45	250	345		
46	222	430		
47	229	514		
48	359	567		
49	491	611		
50	586	708		
51	699	763		
52	824	802		
53	914	775		
54	830	765		
55	810	745		
56	644	643		
57	496	544		
58	487	404		
59	393	270		
60	306	191		
61	213	119		
62	159	56		
63	97	42		
64	81	10		
65	57	14		
66	28	15		
67	17	5		
68	8	4		
69	2	2		
70	4	1		

# SPEED STUDY

Revised 3/4/11

# Wyoming Department of Transportation

CITY: Sheridan	COUNT	Y: Sheridan	ROUTE: US 87
SPEED LIMIT: 55 MPH	DIRECT	ION: Southbound	LOCATION: US 87 South of Big Horn Y
OBSERVER:	START	TIME: 1:54 PM	WEATHER:
DATE: 3/11/24 - 3/15/24	END TIM	ME: 1:46 PM	COMMENTS:
	ACUM		



# Speed Study Revised Myoming Department of Transportation an COUNTY: Sheridan DIRECTION: Northbound BIRECTION: Northbound

CITY: Sheridan SPEED LIMIT: 55 MPH OBSERVER: DATE: 3/11/24 - 3/15/24 START TIME: 1:54 PM END TIME: 1:46 PM

WEATHER: COMMENTS:

SPEED	FREQUENCY	ACUM TOTAI	ACUM %		F	REQL	IENCY DI	STRIBUTIC	NC	
30	23	23	0.7							
31	33	56	1.6	-						
32	37	93	2.7	-						
33	63	156	4.5	-						
34	63	219	6.4	-						
35	82	301	8.7	-						
36	108	409	11.9	-						
37	135	544	15.8	-						
38	165	709	20.6	-						
39	171	880	25.6							
40	133	1013	29.4	-						
41	135	1148	33.3	-						
42	129	1277	37.1	-						
43	127	1404	40.8	-						
44	127	1531	44.5	-						
45	124	1655	48.1	-						
46	113	1768	51.4							
47	141	1909	55.4	-						
48	152	2061	59.9	-						
49	152	2213	64.3	-						
50	157	2370	68.8	-						
51	139	2509	72.9	-						
52	141	2650	77.0	-						
53	140	2790	81.0	-						
54	132	2922	84.9	-						
55	128	3050	88.6	-						
56	106	3156	91.7	-						
57	91	3247	94.3	-						
58	52	3299	95.8	-						
59	45	3344	97.1	-						
60	41	3385	98.3	-						
61	18	3403	98.8	-						
62	9	3412	99.1	-						
63	11	3423	99.4	-						
64	4	3427	99.5	-			-			
65	7	3434	99.7	-						
66	2	3436	99.8	-						
67	4	3440	99.9							
68	1	3441	99.9	-	-					
69	1	3442	100.0	-						
70	1	3443	100	-						
		0440	100	0	5	10	15	20	25	J
AVERAGE SPE 50th PERCENT 67th PERCENT	ILE = 46 ILE = 50		PACE SPE VEHICLES % IN PACE	5 IN PACE E = 41	E = 1395		% EXC	EEDING P	DEVIATION OSTED LIN	1IT = 11
85th PERCENT 95th PERCENT			% BELOW % ABOVE				RECOM	IMENDED	SPEED LIN	11 = 55

# SPEED STUDY Wyoming Department of Transportation

CITY: Sheridan SPEED LIMIT: 55 MPH OBSERVER: 0 ######## COUNTY: Sheridan DIRECTION: SB/NB Comb. START TIME: 1:54 PM END TIME: 1:46 PM

ROUTE: US 87 LOCATION: US 87 South of Big Horn Y WEATHER: COMMENTS:

SPEED	FREQUENCY	ACUM TOTAL	ACUM %	FREQUENCY DISTRIBUTION
30	480	480	8.7	
31	391	871	15.7	
32	388	1259	22.7	
33	356	1615	29.1	
34	290	1905	34.4	
35	234	2139	38.6	
36	191	2330	42.0	
37	200	2530	45.6	
38	205	2735	49.3	
39	188	2923	52.7	
40	154	3077	55.5	
41	148	3225	58.2	
42	138	3363	60.7	
43	133	3496	63.1	
44	130	3626	65.4	
45	125	3751	67.7	
46	116	3867	69.8	
47	141	4008	72.3	
48	153	4161	75.1	
49	152	4313	77.8	
50	157	4470	80.6	
51	139	4609	83.1	
52	141	4750	85.7	
53	141	4891	88.2	
54	132	5023	90.6	
55	128	5151	92.9	
56	106	5257	94.8	
57	91	5348	96.5	
58	52	5400	97.4	
59	45	5445	98.2	
60	41	5486	99.0	
61	18	5504	99.3	
62	9	5513	99.4	
63	11	5524	99.6	
64	4	5528	99.7	
65	7	5535	99.8	
66	2	5537	99.9	
67	4	5541	99.9	
68	1	5542	100.0	
69	1	5543	100.0	
70	1	5544	100	
50th PEF 67th PEF 85th PEF	GE SPEED = 40 RCENTILE = 39 RCENTILE = 45 RCENTILE = 52 RCENTILE = 57	) 5		0         5         10         15         20         25         30         35         40           PACE SPEED = 30 to 39         STANDARD DEVIATION = 8.97           VEHICLES IN PACE = 2923         % EXCEEDING POSTED LIMIT = 7           % IN PACE = 53         % ECOMMENDED SPEED LIMIT = 50           % ABOVE PACE = 47         RECOMMENDED SPEED LIMIT = 50
55ui PEI	95th PERCENTILE = 57 % ABOVE PACE = 47			

CITY	Sheridan		
COUNTY	Sheridan		
ROUTE	US 87		
LOCATION JS	8 87 South of Big Horn Y		
POSTED SPEED LIMIT	55		
LOWEST SPEED RECORDED	30		
HIGHEST SPEED RECORDED	70		
COMMENTS	4) 		
DIRECTION 1	Southbound	DIRECTION 2	Northbound
OBSERVER		OBSERVER	10
DATE	3/11/24 - 3/15/24	DATE	3/11/24 - 3/15/24
START TIME	1:54 PM	START TIME	1:54 PM
END TIME	1:46 PM	END TIME	1:46 PM
WEATHER		WEATHER	

# NUMBER OF OBSERVATIONS AT SPEED PER DIRECTION

DIRECTION				
Southbound	Northbound			
	23			
	33			
	37			
	63			
	63			
	82			
83	108			
65	135			
40	165			
17	171			
21	133			
13	135			
9	129			
6	127			
	127			
1	124			
	113			
0	141			
	152			
	152			
	157			
	139			
	141			
	140			
	132			
	128			
	106			
	91			
	52			
	45			
	41			
	18			
	9			
	11			
	4			
	7			
	2			
	4			
	1			
	1			
0	1			
	Southbound 457 358 351 293 227 152 83 65 40 17 21 13 9 6 3 3 1 7 21 13 9 6 3 3 1 1 3 9 6 3 3 1 1 3 9 6 3 3 1 1 3 0 0 1 1 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0			

# **USLIMITS2** Speed Zoning Report

# **Project Overview**

### **Project Name: Bighorn Y Traffic Study**

Analyst: Hannah Nicholas

### **Basic Project Information**

Route Name: US87 From: Bighorn Y intersection To: RM28.87 State: Wyoming County: Sheridan County City: Sheridan city Route Type: Road Section in Undeveloped Area Route Status: Existing

### **Roadway Information**

Section Length: 0.55 mile(s) Statutory Speed Limit: 70 mph Existing Speed Limit: 55 mph Adverse Alignment: Yes Divided/Undivided: Undivided Number of Lanes: 2 Roadside Hazard Rating: 2 Transition Zone: No

### **Recommended Speed Limit:**

Date: 2025-01-10

### **Crash Data Information**

Crash Data Years: 0 Crash AADT: N/A Total Number of Crashes: N/A Total Number of Injury Crashes: N/A

### Traffic Information

85th Percentile Speed: 57 mph 50th Percentile Speed: 52 mph AADT: 5292 veh/day

**Note:** Sections with adverse alignments may need specific 'advisory speed warnings' which may be different from the general speed limit for the section. See <u>Procedures for Setting Advisory Speeds on Curves</u>, Publication No. FHWA-SA-11-22, June 2011, for more guidance.

SPEED

**Note:** Crash data were not entered for this project. A comprehensive crash study is a critical component of any traffic engineering study. We suggest that you repeat this process when crash data become available.

**Disclaimer:** The U.S. Government assumes no liability for the use of the information contained in this report. This report does not constitute a standard, specification, or regulation.

# **USLIMITS2** Speed Zoning Report

# **Project Overview**

### **Project Name: Bighorn Y Traffic Study**

Analyst: Hannah Nicholas

### **Basic Project Information**

Route Name: US87 From: RM 29.21 To: Bighorn Y intersection State: Wyoming County: Sheridan County City: Sheridan city Route Type: Road Section in Undeveloped Area Route Status: Existing

### **Roadway Information**

Section Length: 0.55 mile(s) Statutory Speed Limit: 70 mph Existing Speed Limit: 55 mph Adverse Alignment: Yes Divided/Undivided: Undivided Number of Lanes: 2 Roadside Hazard Rating: 2 Transition Zone: No

### **Recommended Speed Limit:**

Date: 2025-01-10

### **Crash Data Information**

Crash Data Years: 0 Crash AADT: N/A Total Number of Crashes: N/A Total Number of Injury Crashes: N/A

### Traffic Information

85th Percentile Speed: 52 mph 50th Percentile Speed: 39 mph AADT: 1736 veh/day

**Note:** Sections with adverse alignments may need specific 'advisory speed warnings' which may be different from the general speed limit for the section. See <u>Procedures for Setting Advisory Speeds on Curves</u>, Publication No. FHWA-SA-11-22, June 2011, for more guidance.

**Note:** Crash data were not entered for this project. A comprehensive crash study is a critical component of any traffic engineering study. We suggest that you repeat this process when crash data become available.

SPEED LIMIT

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# USLIMITS2 Speed Zoning Report

# **Project Overview**

### **Project Name: Bighorn Y Traffic Study**

Analyst: Hannah Nicholas

### **Basic Project Information**

Route Name: WY332 From: Bighorn Y intersection To: RM 5.30 State: Wyoming County: Sheridan County City: Sheridan city Route Type: Road Section in Undeveloped Area Route Status: Existing

#### **Roadway Information**

Section Length: 0.30 mile(s) Statutory Speed Limit: 70 mph Existing Speed Limit: 30 mph Adverse Alignment: Yes Divided/Undivided: Undivided Number of Lanes: 2 Roadside Hazard Rating: 5 Transition Zone: No

### **Recommended Speed Limit:**

Date: 2025-01-10

#### **Crash Data Information**

Crash Data Years: 0 Crash AADT: N/A Total Number of Crashes: N/A Total Number of Injury Crashes: N/A

### Traffic Information

85th Percentile Speed: 43 mph 50th Percentile Speed: 37 mph AADT: 2188 veh/day

**Note:** Sections with adverse alignments may need specific 'advisory speed warnings' which may be different from the general speed limit for the section. See <u>Procedures for Setting Advisory Speeds on Curves</u>, Publication No. FHWA-SA-11-22, June 2011, for more guidance.

**Note:** Crash data were not entered for this project. A comprehensive crash study is a critical component of any traffic engineering study. We suggest that you repeat this process when crash data become available.

**Note:** A speed zone of 0.30 miles is generally too short for the recommended speed limit. Consider lengthening the speed zone (if that is possible) or using the speed limits from adjacent sections (if they are appropriate for this section). If the speed and other data you provided are representative of conditions for this short section, then the speed limit noted above may be considered. If the data were taken in an area with adverse horizontal and vertical alignment or unique geometric and/or traffic control features, then the above noted speed limit may not be appropriate because this expert system is not designed to recommend speed limits for sharp horizontal curves or in other special traffic situations.

**Disclaimer:** The U.S. Government assumes no liability for the use of the information contained in this report. This report does not constitute a standard, specification, or regulation.

# **USLIMITS2** Speed Zoning Report

# **Project Overview**

#### **Project Name: Bighorn Y Traffic Study**

Analyst: Hannah Nicholas

#### **Basic Project Information**

Route Name: WY335 From: RM 0.18 To: Bighorn Y intersection State: Wyoming County: Sheridan County City: Sheridan city Route Type: Road Section in Undeveloped Area Route Status: Existing

#### **Roadway Information**

Section Length: 0.55 mile(s) Statutory Speed Limit: 70 mph Existing Speed Limit: 55 mph Adverse Alignment: Yes Divided/Undivided: Undivided Number of Lanes: 2 Roadside Hazard Rating: 2 Transition Zone: No

#### **Recommended Speed Limit:**

Date: 2025-01-10

#### **Crash Data Information**

Crash Data Years: 0 Crash AADT: N/A Total Number of Crashes: N/A Total Number of Injury Crashes: N/A

#### Traffic Information

85th Percentile Speed: 57 mph 50th Percentile Speed: 52 mph AADT: 5575 veh/day

**Note:** Sections with adverse alignments may need specific 'advisory speed warnings' which may be different from the general speed limit for the section. See <u>Procedures for Setting Advisory Speeds on Curves</u>, Publication No. FHWA-SA-11-22, June 2011, for more guidance.

**Note:** Crash data were not entered for this project. A comprehensive crash study is a critical component of any traffic engineering study. We suggest that you repeat this process when crash data become available.

SPEED

**Disclaimer:** The U.S. Government assumes no liability for the use of the information contained in this report. This report does not constitute a standard, specification, or regulation.

Appendix F. Environmental Review

#### Environmental Review - Big Horn Y Intersection Traffic Study October 1, 2024

### **Project Details**

#### Project Name: Big Horn Y Intersection Client: WYDOT

**Project Description:** The Big Horn Y Intersection Project (the project) is the intersection of Big Horn Ave (WY-332), Coffeen Avenue, WY-335, and US-87 and is located approximately five miles south of Sheridan, Wyoming. Intersection and realignment alternatives through improvements to safety and operations are being considered to address public concerns. Current issues with the intersection include near-miss crashes, failure to yield and yield effectively, speeding, high traffic volumes during peak times, long wait times to enter the highway, difficulty in crossing for pedestrians and cyclists, and difficulty in seeing oncoming traffic. Several alternatives were proposed with the goals of slowing approaches into the intersection, reducing crashes and the potential for serious crashes, allowing for bicyclist and pedestrian crossing, reducing driver delay, and accommodating trucks and trailers.

A study area was developed for the purposes of an environmental overview and includes a 300-foot buffer from the road centerline and the potential extents of project alternatives (Figure 1).

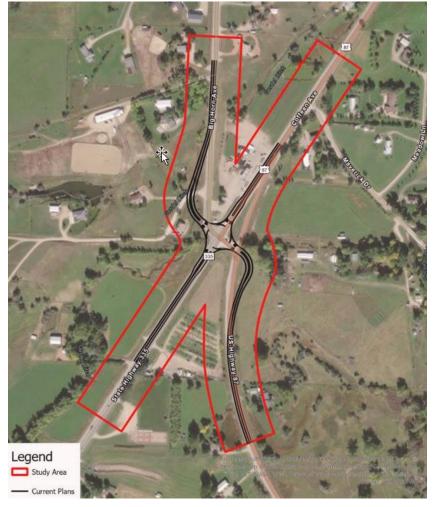


Figure 1. Study Area for Bighorn Y Intersection Project Environmental Overview

#### **Environmental Summary**

**Determination of Potential Impacts:** There is the potential for impacts to the Gerdel Ditch as it is a likely jurisdictional water in the planned path of Big Horn Ave. Portions of this ditch also meet criteria for listing under the National Register of Historic Places (NRHP), and a Class III survey is recommended. The project is within the range of Ute ladies'-tresses, so survey may be necessary to determine if there may be impacts to the threatened species. The FAA Notice Criteria Tool indicated that the study area is within an airport and requires a permit. The closest airport indicated on aerial mapping is approximately two miles away.

#### Funding: WYDOT

**Potential Permits/Approvals:** Section 404 permit, 401 water quality certification, Wyoming State Historic Preservation Office (SHPO) concurrence, and Federal Aviation Administration (FAA) approval may be required. Section 7 consultation may be required if impacts to the Ute ladies' tresses are anticipated.

**Federal Agencies:** U.S. Army Corps of Engineers (USACE), U.S. Fish and Wildlife Service (USFWS), FAA, SHPO

#### Wetlands

**National Wetlands Inventory (NWI):** According to NWI data, there are three wetlands and two streams, the perennial Gerdel Ditch (R5UBFx) and an unnamed intermittent stream (R4SBC) within the study area. The Gerdel Ditch sits in the proposed limits of Big Horn Avenue's realignment. The unnamed intermittent stream is a tributary of the nearby McCormick Creek, which is classified as a fish passage by Wyoming Game and Fish indicating is it a crucial stream corridor. The entire study area is within an aquatic restoration habitat priorities area per data from the Wyoming Game and Fish Department. The goal of this classification is to communicate to the public and other entities areas that need to be protected to maintain healthy populations, areas where habitat issues are likely to be successfully addressed, and to show migration corridors and fish passages that need to be protected.

**Soils:** Hydric soil is present in two portions of the study area. Soil unit 306 takes up most of the northeast leg of the project and has a rating of 92% hydric. Soil unit 162 in the end of the southeast corner of the study area has a 7% hydric rating (Web Soil Survey) (Attachment 1). Soil units 199 and 217 have land classified as farmland of statewide importance if irrigated. All other soil units in the study area are classified as not prime farmland (CA soil resource).

**Onsite delineation required (yes/no):** Yes, streams and wetlands are present according to NWI, and Web Soil Survey indicates that hydric soils are present in a significant part of the project area. **Photos:** 

#### **Critical or Impaired Waters**

Wyoming Pollutant Discharge Elimination System (WYPDES) (Non-Tribal): There are no impaired stream segments within the study area. Three streams with impairment status lie within 0.5 mile of the project and have a surface connection to the streams that pass through the project (Error! R eference source not found.). Impaired streams include Little Goose Creek (5-Impaired), McCormick Creek (4A - Impaired, total maximum daily load [TMDL] completed), and Kruse Creek (4A - Impaired, TMDL Completed). (Wyoming's Assessed Waters, Surface Water Monitoring Locations, and TMDLs) (https://wdeq.maps.arcgis.com/apps/webappviewer/index.html?id=525b2fdaff494fbea0625c49c202 63f1)).

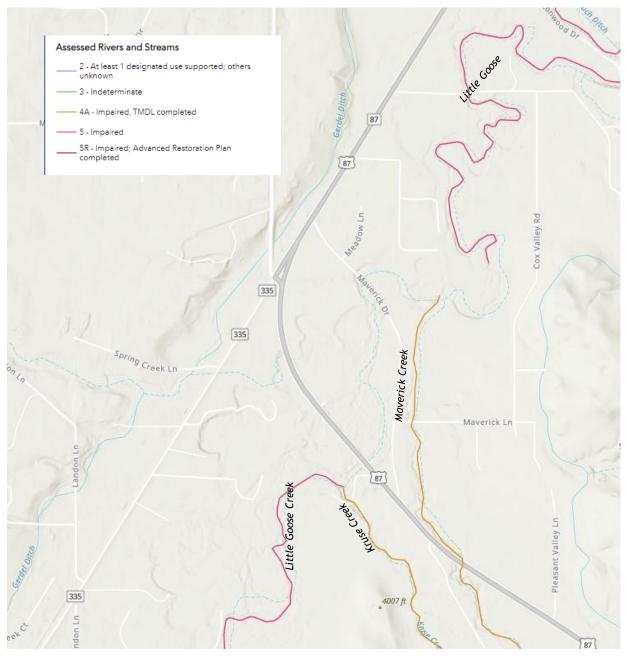


Figure 2. Impaired Streams near the Study Area

National Pollutant Discharge Elimination System (NPDES) (Tribal): The project is not located on any tribal lands.

**Temporary Turbidity Increase:** Wyoming water quality rules and regulations require a temporary turbidity permit in instances of construction in waters designated as fisheries or drinking water supplies (<u>CWA Section 401 - Turbidity - Wetland - Wyoming Department of Environmental Quality</u>). Gerdel Ditch and the unnamed tributary have no designated uses (<u>Wyoming's Assessed Waters,</u> <u>Surface Water Monitoring Locations, and TMDLs</u>). According to the National Resource and Energy Explorer (NREX), no crucial stream corridors or sport fish designated streams are in the study area. Little Goose Creek, about 0.3 mile from the project, has a sport fish designation.

### **USACE** Permit

**Type:** A Section 404 Permit, Nationwide Permit 14, may be necessary for this project because waters of the U.S. may be crossed by the modification of Big Horn Avenue. The project may require stream relocation or channelization as the proposed route of Big Horn Avenue, as planned, would encounter the Gerdel Ditch. Options for minimization of impacts to these streams should be evaluated during later design phases.

**PCN Requirement:** A Pre-construction Notification (PCN) will be required if the project results in a wetland loss of greater than 0.1 acre or stream loss of greater than 0.03 acre.

**401 Water Quality Certification:** A 401 certification would be obtained through the 404 authorization since the project would likely fall under a nationwide permit and no impaired waters would be impacted (<u>401 Water Quality Certification - Wyoming Department of Environmental</u> <u>Quality</u>). If impaired waters are later determined to be impacted, an individual 401 Water Quality Certification will be required.

#### ESA/Sage-grouse/Migration Corridors

**IPaC Listed Species:** Monarch Butterfly (*Danaus plexippus*), status - Proposed Threatened. Ute ladies'-tresses (Spiranthes diluvialis), status - Threatened. Suckley's cuckoo bumble bee - Proposed Endangered.

**Critical Habitat:** No critical habitat was identified using USFWS Information for Planning and Consultation (IPaC) data or other publicly available data (**Attachment 2**).

**Migration Corridor (EO 2020-1):** The project is not within any migration corridors (<u>Migration</u> <u>Corridors in Wyoming (arcgis.com)</u>).

**Greater Sage-grouse (EO 2019-4):** The project is not within the Greater Sage-grouse core area and no occupied leks are documented within two miles of the study area.

**Species of Concern:** According to NREX, the project is within Ute ladies'-tresses range. One bald eagle nest has been recorded within two miles of the study area.

#### Cultural and Historic Resources

**Cultural:** HDR conducted a file search from the Wyoming State Historic Preservation Office (SHPO) on September 11, 2024. The file search identified seven previous cultural resource investigations within 0.5 mile of the Area of Potential Effect (APE). Four of these surveys intersect the APE. The previous surveys identified seven sites within 0.5 mile of the APE, consisting mostly of irrigation ditches. Two previously identified sites (two segments of the Gerdel Ditch) are within the APE. One segment is officially eligible for inclusion in the National Register of Historic Places (NRHP), and second segment has not been evaluated for NRHP eligibility. The Gerdel Ditch was built in 1880 and is one of the earliest irrigation ditches in the area.

Tribal: There are no tribal lands within the study area (NREX).

**Other Concerns:** The 1880 General Land Office plat for T55N R84W shows that an unrecorded stage road passes through the APE, roughly following the alignment of County Road 335. It is unlikely evidence of the historical road remains in the APE due to modern road construction and other development.

Approximately 80% of the study area has not previously been surveyed for cultural resources, and two of the surveys covering portions of the APE are over 10 years old and may not meet current SHPO survey standards. Although there has been some development within the APE, areas with the potential for intact cultural deposits remain. A Class III cultural survey is recommended to be conducted for the undisturbed portions of the APE to identify historical properties that may be impacted by the project.

#### **Adjacent Property**

**Federal Lands:** The study area is not within or adjacent to federal lands. The closest federally owned land is the Big Horn National Forest, about nine miles southwest of the study area (FS Lands GIS Layer).

**State Lands:** The study area is not within or adjacent to state lands. The closest state-owned lands are 2.5 miles north of the study area—the Wyoming Girl School (State ownership GIS layer).

#### Federal Levees

**Concerns:** No federal levees are within or adjacent to the study area (National Levee Database).

#### FEMA Floodplain

**Concerns:** FEMA floodplain data shows portions of the study area are within the 100-year (pink) and 500-year (orange) floodplains (**Attachment 3**).

#### **Jurisdictional Waters**

**Topo/National Hydrography Dataset (NHD):** According to NHD data, the Gerdel Ditch and an unnamed tributary of Little Goose Creek are two likely jurisdictional waters that pass through the study area (**Attachment 4**). A topographical map of the area from the national map viewer is included as **Attachment 5**.

**Navigable:** According to the Navigable Waters Protection Rule Fact Sheet, the two streams (Gerdel Ditch and an unimpaired segment of Little Goose Creek) passing through the study area meet the definition of a tributary being perennial and intermittent streams that contribute surface flow to traditional navigable waters in a typical year

(https://19january2021snapshot.epa.gov/sites/static/files/2020-01/documents/nwpr\_fact\_sheet\_-\_overview.pdf).

#### Hazardous Materials

**Site Conditions:** No active or inactive hazardous waste sites are recorded within the study area (NREX).

#### FAA

**Airfields:** The FAA Notice Criteria Tool was run for 4-foot road height and 14-foot lamp post height. Lamp post results say that construction is near an airport and to file a notice with FAA. The closest airport indicated on aerial mapping is the Sheridan County Airport about two miles north of the study area.

**Construction Equipment:** The FAA Notice Criteria Tool was run for mobile construction equipment, and tool did not indicate that filing a notice was necessary.

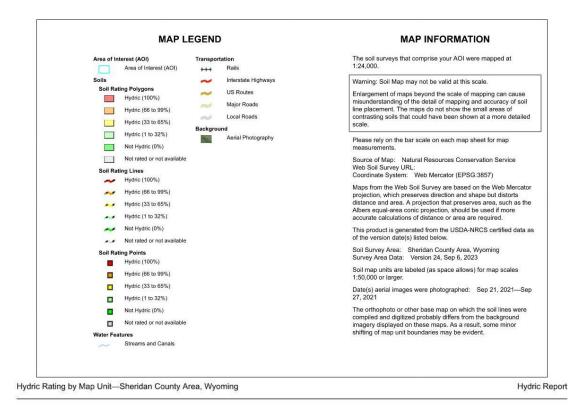
#### Other

**Tree Clearing:** Approximately 1.2 acres of the study area contain trees. The rerouting of Big Horn Avenue and US 87 into the roundabout would likely result in some tree removal. Raptor nest surveys should be conducted during the active nesting season, preferably March through May.

**Buildings:** Several building footprints are within the study area (NREX) (Attachment 6). No buildings will be removed.

Bridges: No bridges are present in the study area.





## Hydric Rating by Map Unit

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
162	Havertel silt loam, 0 to 3 percent slopes	7	1.3	4.1%
199	Nuncho variant clay loam, 0 to 6 percent slopes	0	20.6	62.8%
217	Platsher clay loam, 0 to 3 percent slopes	0	2.2	6.9%
221	Platsher-Wolfvar complex, 6 to 9 percent slopes	0	3.6	11.1%
306	Worthenton clay loam, 0 to 3 percent slopes	92	5.0	15.3%
Totals for Area of Interest			32.7	100.0%



## United States Department of the Interior

FISH AND WILDLIFE SERVICE Wyoming Ecological Services Field Office 334 Parsley Boulevard Cheyenne, WY 82007-4178 Phone: (307) 772-2374 Fax: (307) 772-2358 Email Address: wyominges@fws.gov



In Reply Refer To: Project Code: 2024-0140577 Project Name: Big Horn Y - WYDOT 09/06/2024 14:03:18 UTC

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed, and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through IPaC by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)

(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at: https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf

**Migratory Birds**: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts, see <u>Migratory Bird Permit | What We Do | U.S. Fish & Wildlife Service (fws.gov)</u>.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures, see <a href="https://www.fws.gov/library/collections/threats-birds">https://www.fws.gov/library/collections/threats-birds</a>.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit <u>https://www.fws.gov/partner/council-conservation-migratory-birds</u>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office. Project code: 2024-0140577

09/06/2024 14:03:18 UTC

Attachment(s):

Official Species List

# **OFFICIAL SPECIES LIST**

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

#### Wyoming Ecological Services Field Office

334 Parsley Boulevard Cheyenne, WY 82007-4178 (307) 772-2374

Project code: 2024-0140577

09/06/2024 14:03:18 UTC

#### **PROJECT SUMMARY**

Project Code: 2024-0140577	
Project Name: Big Horn Y - WYDOT	
Project Type: Road/Hwy - Maintenance/Modification	
Project Description: The Big Horn Y is the intersection of WY-335, WY-332, an	d US Highway
87. The project would replace the current intersection with	a roundabout
to improve the flow of traffic through the intersection.	

Project Location:

The approximate location of the project can be viewed in Google Maps: <u>https://www.google.com/maps/@44.7192143,-106.96224859084515,14z</u>



Counties: Sheridan County, Wyoming

#### ENDANGERED SPECIES ACT SPECIES

There is a total of 2 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Project code: 2024-0140577

09/06/2024 14:03:18 UTC

#### INSECTS

NAME	STATUS
Monarch Butterfly Danaus plexippus	Candidate
No critical habitat has been designated for this species.	
Species profile: https://ecos.fws.gov/ecp/species/9743	

#### FLOWERING PLANTS

NAME	STATUS
Ute Ladies'-tresses Spiranthes diluvialis	Threatened
No critical habitat has been designated for this species.	
Species profile: https://ecos.fws.gov/ecp/species/2159	

#### **CRITICAL HABITATS**

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

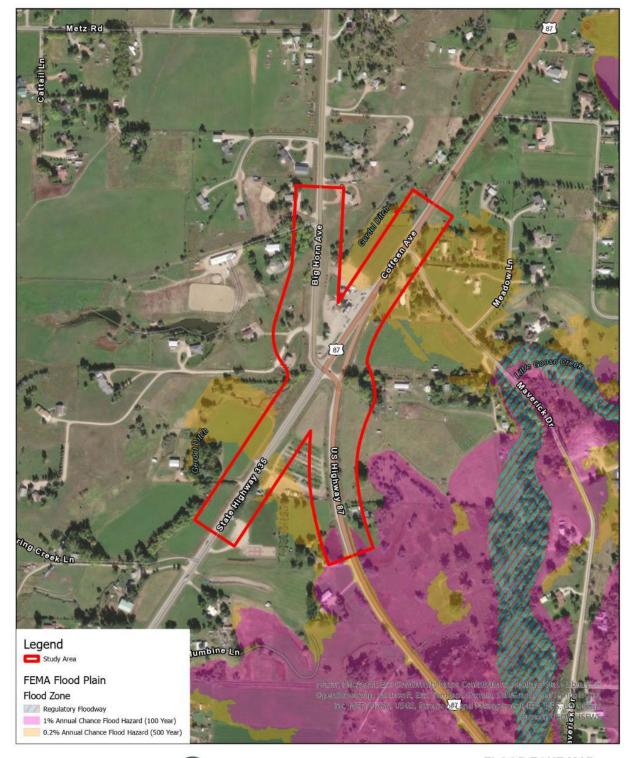
YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

Project code: 2024-0140577

09/06/2024 14:03:18 UTC

# IPAC USER CONTACT INFORMATION

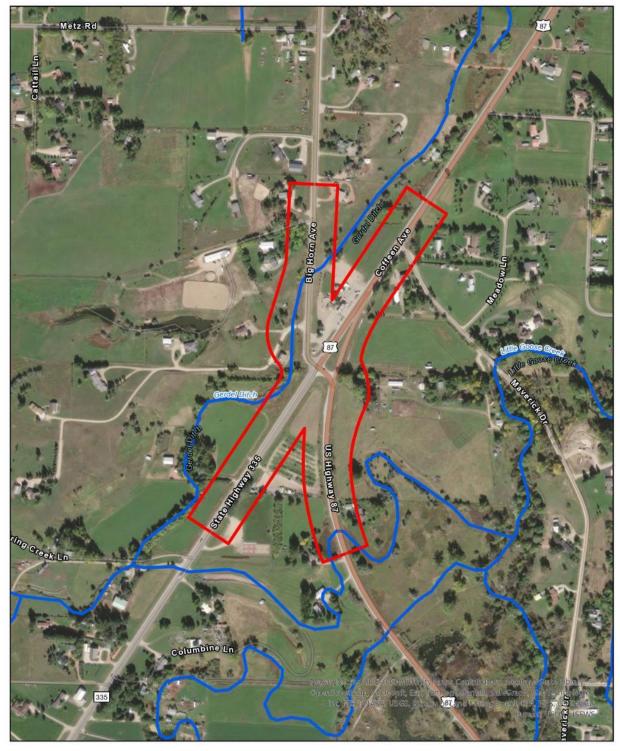
Agency:	Private Entity
Name:	Rowan Krump
Address:	7350 Stockman St.
Address Line 2:	Suite A
City:	Cheyenne
State:	WY
Zip:	82009
Email	rowan.krump@hdrinc.com
Phone:	3077579009



0\_\_\_\_\_\_700 US Feet

SEPTEMBER 2024

FLOOD ZONE MAP BIG HORN Y SHERIDAN COUNTY, WYOMING

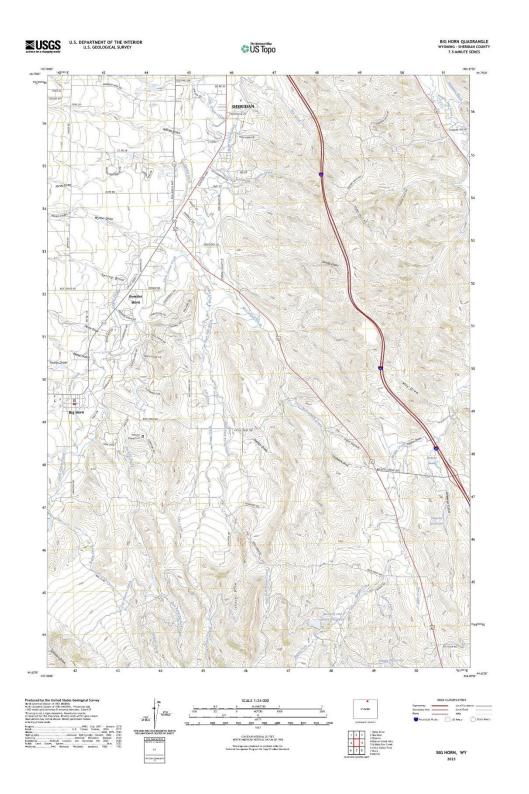


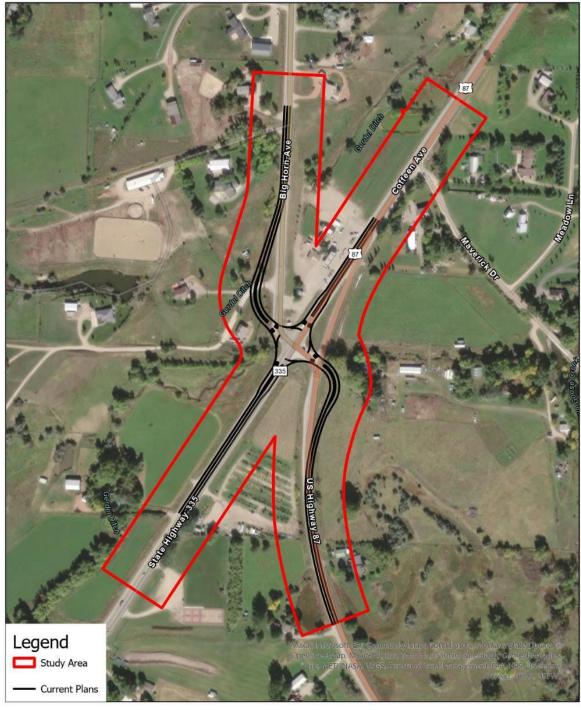
0 700 US Feet

Legend Study Area National Hydrography Dataset (NHD)

SEPTEMBER 2024

NHD MAP BIG HORN Y SHERIDAN COUNTY, WYOMING





TREE LOCATION MAP BIG HORN Y SHERIDAN COUNTY, WYOMING

SEPTEMBER 2024

