Level 2 Final

Study: EN-2739-24

Location: US-36 and US-183 E Junction in Phillipsburg, Phillips County, Kansas

Date: 1/22/2024

City: Phillipsburg

County: Phillips

District/Area: 3/1

Study Type: Speed Limit

Engineer: Pat Byrd, PE, PTOE,

Embedded Traffic Engineer

Jeff A. Stewart, P.E., District Three Engineer

Mathew Withington, P.E., District Three Maintenance Engineer

Rodney Bencken, District Three, Area One Superintendent

Lisa Mussman, District Three Public Affairs Manager

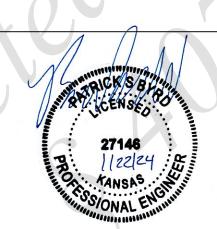
Sara M. Peters, P.E., Chief of Traffic Engineering

Donna Lee, P.E., State Traffic Engineer

Ryan Rindt, P.E., Senior Traffic Engineer

Jackie M. Austin, P.E. Senior Traffic Engineer

Carla P. Anderson, P.E., State Highway Safety Engineer



Eisenhower State Office Building

700 S.W. Harrison Street Topeka, KS 66603-3745

kdot#publicinfo@ks.gov

http://www.ksdot.gov

Investigation Report Structure

- Part 1: Document concerns/issues, background, initial observations for the study location, and crash history.
- Part 2: Determine the appropriate speed limit(s) for a rural highway or city connecting link.
- Part 3: Recommendations

Part 1

Concerns/Issues, Background, Initial Observations, and Crash History

Concerns/Issues

Locals are concerned about the safety and traffic flow at the intersection of US-36 and US-183. A new Casey's was placed on the Southwest side of the intersection, and there is a current expansion on the north leg (E 100 Rd) at the Amber Wave grain processing facility.

District/Area Input

City Input

No additional input at this time.



Level 2 Final

Study: EN-2739-24

Location: US-36 and US-183 E Junction in Phillipsburg, Phillips County, Kansas

Date: 1/22/2024

Study Location (source: Google Earth, Imagery Date: 8/21/2022)





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Location: US-36 and US-183 E Junction in Phillipsburg, Phillips County, Kansas

Date: 1/22/2024

Background

ADT = Average Daily Travel in vehicles per day Speed limit in miles per hour

AADT Source: KanPlan

2021

US-36 ADT: 3,615 Speed Limit: 45

Traffic Control: None

KDOT Route Classification: Class B: The most important corridors of statewide and

interstate travel.

Functional Classification: Principal Arterial - Other

US-183 ADT: 1,559 Speed Limit: 45

Traffic Control: Stop Sign

KDOT Route Classification: Class B: The most important corridors of statewide and

interstate travel.

North Leg: Functional Classification: Local

South Leg: Functional Classification: Principal Arterial - Other

Observations

From Google Earth Previous RSA

- Stop sign control is on the intersection's northbound and southbound approaches.
- There is a 48" X 48" Stop sign on the northbound approach and a 36" X 36" Stop sign on the southbound approach.
- There is a 48" X 48" W3-1 "Stop Ahead" warning sign present on the northbound approach and a 36" X 36" W3-1 "Stop Ahead" warning sign present on the southbound approach.
- The east and west leg is a four-lane, undivided principal arterial roadway. The north and south leg is a two-lane undivided roadway. There is a painted median located on the south leg of the intersection.
- Some sight-distance obstructions appear to be present for the northbound approach. Those obstructions include the light pole and signs west of the intersection. Potential sight obstruction is also present on the southbound approach from the trailblazer signs on the east side of the intersection.
- Stop lines are not present on the northbound and southbound approaches.
- There is poor alignment on the north and south legs of the intersection.



Level 2 Final

Study: EN-2739-24

Location: US-36 and US-183 E Junction in Phillipsburg, Phillips County, Kansas

Date: 1/22/2024

Guidance

Critical Crash Rate

- The critical crash rate provides a statistical threshold. It is calculated by weighing the statewide average crash rate for a similar intersection or road section by the existing traffic volumes of the study location.
- If the intersection or segment crash rate for the study location is greater than the critical crash rate, it is an indicator that there may be a safety concern.
- If the study location's crash rate is at or less than the critical crash rate, it implies that the rate does not deviate significantly from the statewide average rate.

Crash History

2018-2022

Crash rates are noted in crashes per million entering vehicles (mev) for intersections and per million vehicle-miles (mvm) for segments.

CR = location's crash rate

CCR = critical crash rate

• All crashes resulting in fatality, injury, or property damage in an amount greater than or equal to \$1,000 are included in the crash analysis.

Number of Crashes: Total 6 Fatal

0 Injury

2

PDO 4

Crash Rates: Study Location 0.6

State Average

0.33

Critical 0.69



Relationship of Crash Rate (CR) to Critical Crash Rate (CCR)

- Crash Pattern(s):
 - Note: A collision diagram for the US-36 and US-183 intersection is attached.
 - There were six reported crashes at the intersection, with five of these crashes due to one vehicle failing to yield the right of way. Of those five crashes, three attempted to turn left, with two attempting to turn from the minor street and the other from the major street.
 - Two of these crashes involved a left-turning vehicle failing to yield the right of way and were also injury crashes.

Conclusion(s)

- The crash rate for the study location is above the statewide average crash rate but below the intersection's critical crash rate.
- Three of four crashes on the minor street involved a vehicle failing to yield the right of way and/or running the stop sign.



Level 2 Final

Study: EN-2739-24

Location: US-36 and US-183 E Junction in Phillipsburg, Phillips County, Kansas

Date: 1/22/2024

Date: 1/22/2021	
Part 2	Speed Limit Analysis
Definitions 85 th Percentile Speed	• The 85th percentile speed is defined as the speed at or below which 85 percent of the observed free-flowing vehicles travel.
Pace Speeds	• The pace is defined as the 10-mph range containing the highest number of vehicles in the study sample data.
Speed Limit	• The speed limit is the maximum speed a driver is legally permitted for a given roadway segment.
Statutory Speed Limits	• Kansas statutes establish maximum speed limits of 30 mph in any urban district, 75 mph on any separated, multilane highway designated by the Secretary of Transportation, 55 mph on any county or township highway, and 65 mph on other highways.
Speed Zone	• A speed zone is a section of roadway with a posted speed limit different than the statutory speed limit and is determined based on an engineering study.
Guidance MUTCD Section	• Speed limits (other than statutory speed limits) shall only be established based on an engineering study.
2B.13 Speed Limits	• The engineering study shall include an analysis of the current speed distribution of free-flowing vehicles.
115	 The speed limits displayed shall be in multiples of 5 mph. Speed limit signs shall be posted at the points of change from one speed limit to another. When a speed limit is posted, it should be within five mph of the 85th percentile speed of free-flowing traffic.
Research Findings Referenced in NCHRP 17-76	• While the research findings indicate a change in the numerical value of a speed limit sign can affect the observed mean and 85th percentile speeds, it is not as influential as the magnitude of the speed limit value change.
Impact of Speed Limit Change on Speeds	• One of the most extensive studies examined data from 22 states with speed limit changes. Lowering the limit by up to 20 mph or increasing the limit by up to 15 mph resulted in changing speeds of less than 1.5 mph on average.
Driver's Role in Setting Speed Limits	• The driver plays a key role in the speed limit setting process. During free-flow conditions, drivers select speeds that they believe optimize the tradeoffs between travel time and risk.
	• Drivers are good at assessing these tradeoffs, and their judgment is trustworthy in establishing a limit where drivers who exceed that speed may be cited by law enforcement.



Level 2 Final

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Date: 1/22/2024

• Basing the speed limit on the 85th percentile indicates a speed that most drivers believe is reasonable and prudent.

Guidance

Current KDOT Practice

- Speed limits are normally set based upon the 85th percentile speed of the free-flowing vehicles using the roadway. The upper end of the pace should also be considered.
- The 85th percentile speed is rounded to the nearest 5 mph increment when setting speed limits.
- Studies have shown that the observed 85th percentile speed generally reflects the collective judgment of most drivers as to a reasonable speed for given traffic and roadway conditions.
- The 85th percentile speed is believed to represent a speed that minimizes crashes.
- Speed limit transition zones, when used, should be a minimum of 0.25 miles in length.



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Location: US-36 and US-183 E Junction in Phillipsburg, Phillips County, Kansas

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Existing Speed Limits

The existing speed limits are shown in the aerial image below.



Analysis

Data Collection Completed: 09-12-2023

Detailed speed data sheets are attached to the report. • The table on the next page summarizes the results of the spot speed study for US-36 in Phillipsburg.



Level 2 Final

Study: EN-2739-24

Location: US-36 and US-183 E Junction in Phillipsburg, Phillips County, Kansas

Date: 1/22/2024

Location	Direction	Pace (mph)	Median of Pace	50 th Percentile Speed (mph)	85 th Percentile Speed (mph)	Existing Speed Limit (mph)
A	EB	31-40	35	35.0	40.9	45
(US-36, 0.1 Miles West of	WB	28-37	32	31.7	35.2	45
US-183 Junction)	Combined	28-37	32	33.7	38.7	45
В	EB	34-43	38	36.0	42.9	45
(US-36, 0.1 Miles East of	WB	34-43	40	37.3	42.7	45
US-183 Junction)	Combined	34-43	39	36.2	42.8	45

Conclusion(s)

- The observed 85th percentile speeds at US-36, 0.1 Miles West of US-183 Junction going westbound, is at least 5 MPH below the posted speed limit (45 MPH).
- It is also observed that the 85th percentile speeds at US-36, 0.1 Miles East of US-183 Junction falls within 5 MPH of the existing speed limit.
- If the speed limit were reduced to 40 MPH, observed 85th percentile speeds would still fall within 5 MPH for locations A and B.

Part 3

Recommendations

Recommendation(s)

- The following items are recommended to be installed at this intersection:
 - The southbound stop sign should be upgraded from the existing 36" X 36" to the enlarged 48" X 48."
 - Add a "Stop Ahead" warning sign (W3-1) on the left side of the northbound approach.
 - Reflective tape should be added to the northbound and southbound stop signs and the "Stop Ahead" warning signs (W3-1).
 - Pavement markings should be adjusted to include northbound and southbound stop lines.
 - There is currently only one street light pole located at Casey's.
 Consider reviewing lighting levels to determine the need for additional streetlights at the intersection.
- If the city wishes, the existing 45 MPH speed zone could be changed to 40 MPH. Both speed limit (R2-1) and speed reduction (W3-5) signs would need to be replaced, indicating the speed limit change. Placement of speed



Level 2 Final

Study: EN-2739-24

Location: US-36 and US-183 E Junction in Phillipsburg, Phillips County, Kansas

Date: 1/22/2024

reduction signs should be located per the current KDOT Highway Sign Manual.

- Consideration should be given to relocating the existing street light pole south of the southwest curb return. Trailblazer signs should also be relocated to the west to improve intersection sight distance for northbound right and left-turn movements.
- KDOT should review access management options for Casey's, located on the southeast corner of the intersection, to eliminate redundant access points (preferably the driveways closest to the study intersection) to improve intersection sight distance and intersection operations.
- Per KDOT policy, rumble strips are not recommended for roads within the city limit. If safety issues continue on the southbound approach after implementing the recommendations above, the county could consider adding rumble strips on the southbound approach.
- Based on current ADT, a road diet could be considered for US-36, reducing exposure for left-turning vehicles from US-183 and E 100 Rd. When a reconstruction project occurs on US-36, a road diet feasibility study should be conducted. In the interim, a road diet could be implemented from 10th Street to where US-36 currently transitions to a two-lane section outside of the city limits. (See attached Phillipsburg Concept Design.)
- Place on the list for follow-up field review.

Attachments: Collision Diagram, 4-Hour Turning Counts, Peak-Hour Turning Counts Diagram, Speed Data, Phillipsburg Concept Design

Traffic Investigation Report – Collision Diagram

Location: US-36 and US-183 E Junction in Phillipsburg, Phillips County, Kansas

Study Period: 2018 – 2022



	Total	Fatal	Injury	PDO
Number of Crashes	6	0	2	4
# Fatalities/Injuries	4	0	4	

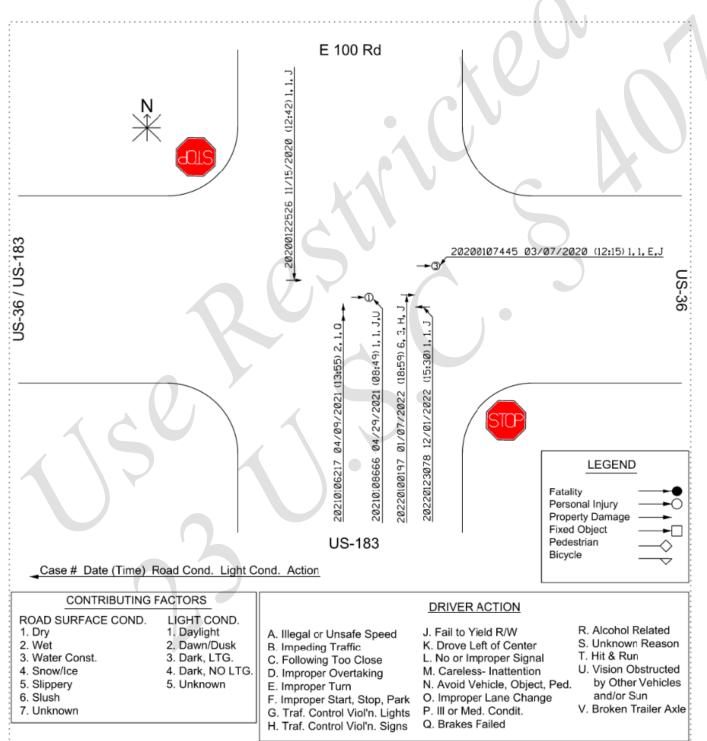
 Crash Rate
 Critical Crash Rate

 0.64
 0.69

 ADT
 Average

 5,155
 0.33

PDO = Property Damage Only
Rates are given in the number of crashes per million entering vehicles (mev)



Traffic Investigation Report – Four-Hour Turning Counts

Location: US-36 and US-183 E Junction in Phillipsburg, Phillips County, Kansas



File Name: \\jeo.local\share\Projects\Engineering\221734.01 - KDOT FY2024 Traffic Engineering Section E\6 Traffic

Start Date: 9/12/2023 Start Time: 6:30:00 AM Start Time: 0:30.00 Aim
Site Code: 00000000

Comment 1: City: Phillipsburg

Comment 2: County: Phillips

Comment 3: Location: US-36 @ US-183 E Junction

Comment 4: Counted By: JC

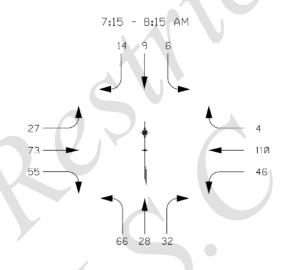
Con	nment 4: 0	Counted E	By: JC					1				
		E 100 Rd			US-36			US-183		U:	S-36/US-183	3
		rom North			From East		F	From South			From West	
Start Time	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left
6:30:00 AM	0	2	0	6	13	6	4	20	15	4	7	35
6:45:00 AM	1	1	0	13	16	2	2	14	9	8	6	60
7:00:00 AM	5	4	0	1	10	10	6	2	11	13	11	6
7:15:00 AM	4	2	1	1	26	9	4	5	16	9	22	2
7:30:00 AM	2	2	0	0	31	19	9	2	9	15	14	7
7:45:00 AM	3	3	1	1	35	11	16	13	28	16	18	13
8:00:00 AM	5	2	4	2	18	7	3	8	13	15	19	5
8:15:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:30:00 AM	0	0	0	0	0	0	0	0	0	0	Ō	0
8:45:00 AM	0	0	0	0	0	0	o	o	0	0	0	0
9:00:00 AM	0	0	0	0	0	o	0	0	0	0	0	0
9:15:00 AM	0	0	0	0	0	0	0	0	0	0	0	Ō
9:30:00 AM	0	0	ō	0	0	0	0	0	0	0	0	ō
9:45:00 AM	0	0	0	0	0	0	ō	0	ō	0	o	0
10:00:00 AM	0	ō	ō	0	0	0	ō	0	0	O) 0	Ō
10:15:00 AM	Ō	ō	ō	Ō	0	o	ō	0	0	0	0	ō
10:30:00 AM	ō	ō	ō	0	0	0	ō	. 0	ō	0	0	Ö
10:45:00 AM	Ō	ō	ō	0	0	0	ō	A o	ō	ō	0	ō
11:00:00 AM	0	0	0	0	0	0	0	0	0	0	0	ō
11:15:00 AM	Ö	0	Ö	0	0	ō	0	o	Ō	0	O	Ō
11:30:00 AM	0	0	ō	0	0	0	0	0	0	0	0	0
11:45:00 AM	0	0	0	0	0	ō	Ō	0	0	0	ō	ō
12:00:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
12:15:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
12:30:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
12:45:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
1:00:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
1:15:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
1:30:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
1:45:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
2:00:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
2:15:00 PM	0	0	0	.0	0	0	0	0	0	0	0	0
2:30:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
2:45:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
3:00:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
3:15:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
3:30:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
3:45:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
4:00:00 PM	26	15	8	2	24	9	13	1	19	23	22	4
4:15:00 PM	3	3	3	0	28	4	10	0	21	26	23	1
4:30:00 PM	3	4	2	1	25	9	14	2	26	22	26	3
4:45:00 PM	4	1	1	1	24	10	12	2	21	23	35	0
5:00:00 PM	24	17	0	1	24	10	7	3	20	18	34	2
5:15:00 PM	2	5	3	0	32	8	12	4	16	19	29	1
5:30:00 PM	41	20	10	0	28	7	8	2	24	23	34	1
5:45:00 PM	8	9	2	0	28	8	7	3	13	21	21	4

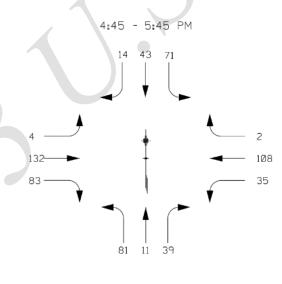


FIFID DATA

US-36 @ US-183 E Junction PHILLIPS COUNTY 9/12/2023

PEAK HOUR TURNING MOVEMENT





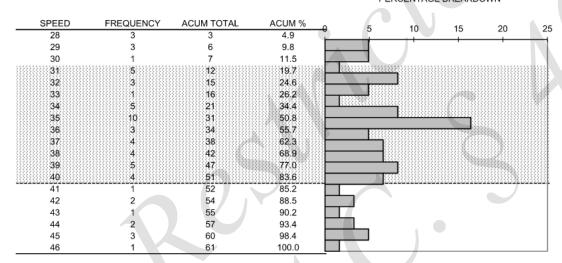


KANSAS DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC ENGINEERING

CITY: Phillipsburg OBSERVER: JC DATE: September 12, 2023 COUNTY: Phillips SPEED LIMIT: 45 mph DIRECTION: EASTBOUND ONLY LOCATION: US-36, 0.1 Miles West of US-183

TIME START: 11:43 AM TIME END: 11:58 AM

PERCENTAGE BREAKDOWN



AVERAGE SPEED = 36.1 50th PERCENTILE = 35. 85th PERCENTILE = 40.9 90th PERCENTILE = 42.9

95th PERCENTILE = 44.3

PACE = 31 - 40 VEHICLES IN PACE = 44 % IN PACE = 72.1 % BELOW PACE = 11.5 % ABOVE PACE = 16.4 SAMPLE VARIANCE = 22.1945355 STANDARD DEVIATION = 4.7111077 RANGE 1*S = 72.13114 RANGE 2*S = 98.36066 RANGE 3*S = 100.

Traffic Investigation Report – Speed Data

Location: US-36, 0.1 Miles West of US-183 in Phillipsburg, Phillips County, Kansas



SPEED STUDY

KANSAS DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC ENGINEERING

CITY: Phillipsburg OBSERVER: JC DATE: September 12, 2023 COUNTY: Phillips SPEED LIMIT: 45 mph DIRECTION: WESTBOUND ONLY LOCATION: US-36, 0.1 Miles West of US-183

TIME START: 11:43 AM TIME END: 11:58 AM

PERCENTAGE BREAKDOWN

			0	5	10	15	20	25
SPEED	FREQUENCY	ACUM TOTAL	ACUM %	7				
28	4	4	7.0					
29	4	8	14.0					
30	6	14	24.6					
31	8	22	38.6					
32	10	32	56.1					
33	4	36	63.2					
34	5	41	71.9					
35	7	48	84.2					
36	3	51	89.5	##				
37	2	53	93.0	milli				
38	2	55	96.5					
39	0	55	96.5					
40	2	57	100.0					

AVERAGE SPEED = 32.6

50th PERCENTILE = 31.7 85th PERCENTILE = 35.2

90th PERCENTILE = 36.2

95th PERCENTILE = 37.6

PACE = 28 - 37 VEHICLES IN PACE = 53 % IN PACE = 93.

% BELOW PACE = .

% ABOVE PACE = 7.

SAMPLE VARIANCE = 8.8032581 STANDARD DEVIATION = 2.9670285

RANGE 1*S = 70.17544 RANGE 2*S = 96.49123

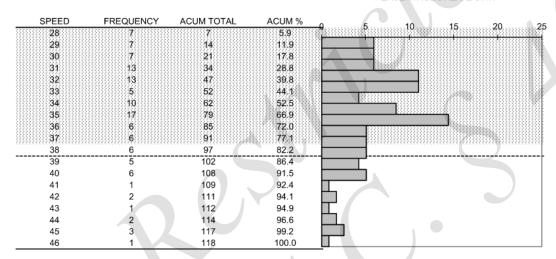
RANGE 3*S = 100.



KANSAS DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC ENGINEERING

CITY: Phillipsburg OBSERVER: JC DATE: September 12, 2023 COUNTY: Phillips SPEED LIMIT: 45 mph DIRECTION: Combined WB & EB LOCATION: US-36, 0.1 Miles West of US-183 TIME START: 11:43 AM TIME END: 11:58 AM

PERCENTAGE BREAKDOWN



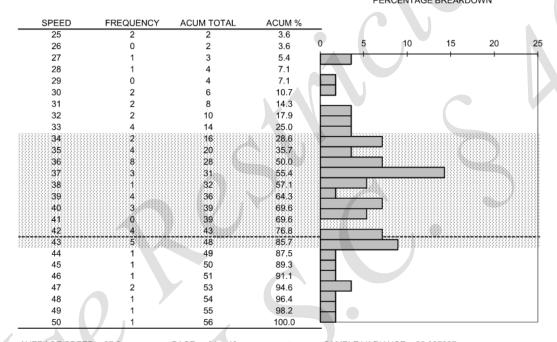
AVERAGE SPEED = 34.5 50th PERCENTILE = 33.7 85th PERCENTILE = 38.7 90th PERCENTILE = 39.7 95th PERCENTILE = 43.1 PACE = 28 - 37 VEHICLES IN PACE = 91 % IN PACE = 77.1 % BELOW PACE = . % ABOVE PACE = 22.9 SAMPLE VARIANCE = 18.6776764 STANDARD DEVIATION = 4.3217677 RANGE 1*S = 70.33898 RANGE 2*S = 94.91525 RANGE 3*S = 100.



KANSAS DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC ENGINEERING

CITY: Phillipsburg OBSERVER: JC DATE: September 12, 2023 COUNTY: Phillips SPEED LIMIT: 45 mph DIRECTION: EASTBOUND ONLY LOCATION: US-36, 0.1 Miles East of US-183 TIME START: 10:41 AM TIME END: 11:17 AM

PERCENTAGE BREAKDOWN



AVERAGE SPEED = 37.6 50th PERCENTILE = 36. 85th PERCENTILE = 42.9

90th PERCENTILE = 45.4

95th PERCENTILE = 47.2

PACE = 34 - 43 VEHICLES IN PACE = 34 % IN PACE = 60.7

% BELOW PACE = 25. % ABOVE PACE = 14.3 SAMPLE VARIANCE = 35.087987 STANDARD DEVIATION = 5.9235114

RANGE 1*S = 71.42857 RANGE 2*S = 94.64286 RANGE 3*S = 100.

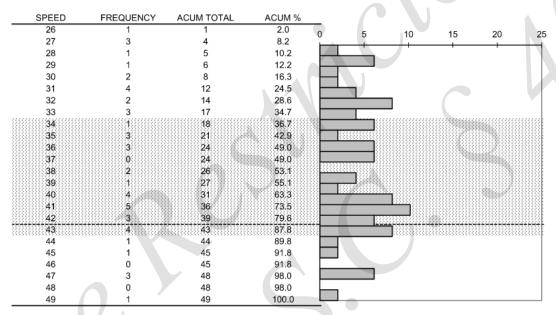


KANSAS DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC ENGINEERING

CITY: Phillipsburg OBSERVER: JC DATE: September 12, 2023 COUNTY: Phillips SPEED LIMIT: 45 mph DIRECTION: WESTBOUND ONLY LOCATION: US-36, 0.1 Miles East of US-183

TIME START: 10:41 AM TIME END: 11:17 AM

PERCENTAGE BREAKDOWN



AVERAGE SPEED = 37.
50th PERCENTILE = 37.3
85th PERCENTILE = 42.7
90th PERCENTILE = 44.1
95th PERCENTILE = 46.5

PACE = 34 - 43 VEHICLES IN PACE = 26 % IN PACE = 53.1 % BELOW PACE = 34.7 % ABOVE PACE = 12.2 SAMPLE VARIANCE = 38.0816327 STANDARD DEVIATION = 6.1710317 RANGE 1*S = 71.42857 RANGE 2*S = 100. RANGE 3*S = 100.



KANSAS DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC ENGINEERING

CITY: Phillipsburg OBSERVER: jc DATE: September 12, 2023 COUNTY: Phillips SPEED LIMIT: 45 mph DIRECTION: Combined WB & EB LOCATION: US-36, 0.1 Miles East of US-183 TIME START: 10:41 AM TIME END: 11:17 AM

PERCENTAGE BREAKDOWN

SPEED	FREQUENCY	ACUM TOTAL	ACUM %						
25	2	2	1.9						
26	1	3	2.9	0	5	10	15	20	25
27	4	7	6.7		1				-
28	2	9	8.6						
29	1	10	9.5						
30	4	14	13.3						
31	6	20	19.0						
32	4	24	22.9		_				
33	7	31	29.5						
34	3	34	32.4						
35	7	41	39.0		ammutt				
36	171	52	49.5		#				
37	3	55	52.4						
38	3	58	55.2						
39	5	63	60.0		100-4				
40	7	70	66.7	₩—					
41	-5	75	71.4	₩—					
42	7	82	78.1	III —					
43	9	91	86.7		100				
44	2	93	88.6						
45	2	95	90.5						
46	1	96	91.4						
47	5	101	96.2						
48	1 /	102	97.1						
49	2	104	99.0						
50	1	105	100.0						

AVERAGE SPEED = 37.3 50th PERCENTILE = 36.2 85th PERCENTILE = 42.8

90th PERCENTILE = 44.8 95th PERCENTILE = 46.8 VEHICLES IN PACE = 60 % IN PACE = 57.1 % BELOW PACE = 29.5 % ABOVE PACE = 13.3

PACE = 34 - 43

SAMPLE VARIANCE = 36.1983516 STANDARD DEVIATION = 6.0165066 RANGE 1*S = 73.33334 RANGE 2*S = 99.04762 RANGE 3*S = 100.

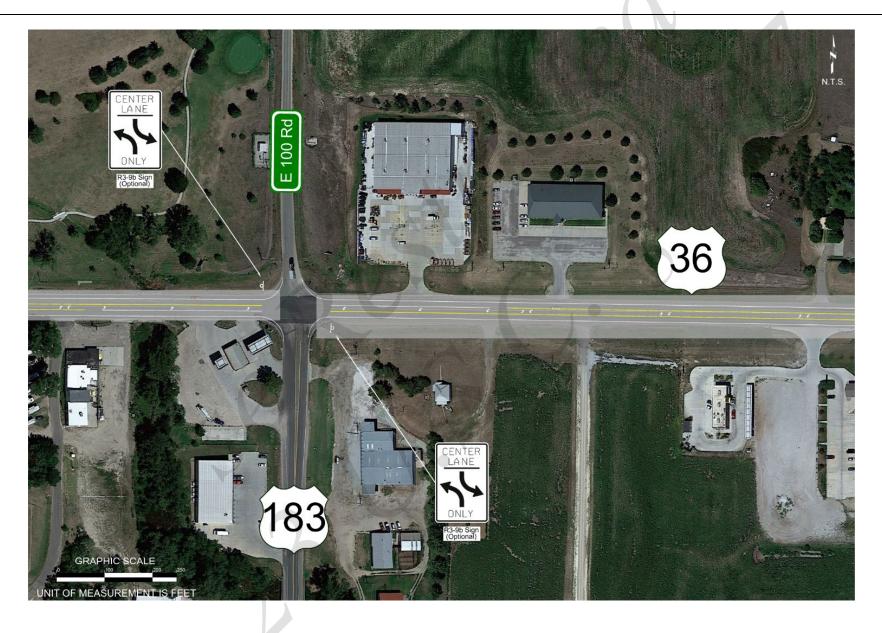
Traffic Investigation Report — Phillipsburg Concept Design Location: US-36 in Phillipsburg, Phillips County, Kansas





Traffic Investigation Report — Phillipsburg Concept Design Location: *US-36 in Phillipsburg, Phillips County, Kansas*





Traffic Investigation Report — Phillipsburg Concept Design Location: *US-36 in Phillipsburg, Phillips County, Kansas*



