



Ohio Department of Transportation

SPEED ZONE EVALUATION SHEET

For Highways with less than 50% of all crossroads grade separated



TEM FORM 1296-2

COMPLETE ALL GREEN SHADED AREAS

ROUTE NAME:	Morse Road	ROUTE NUMBER:	C17
BEGIN STUDY AT:	Johnstown Road	COUNTY:	Franklin
BEGIN LOGPOINT:	8.49	TOWNSHIP / MUNICIPALITY:	Gahanna/Plain/Jefferson
END STUDY AT:	Kitzmilller Rd	JURISDICTION:	Franklin County/Gahanna
END LOGPOINT:	10.53	EXISTING SPEED LIMIT (MPH):	50
LENGTH (MILE):	2.04	AVERAGE DAILY TRAFFIC (ADT):	10301

[REFER TO SECTION 1203 OF THE TRAFFIC ENGINEERING MANUAL FOR ADDITIONAL GUIDANCE](#)

No. of Houses or Farms	18	Must have direct access to the roadway being studied.	
No. of Small Businesses, Apts./Condos	0		
No. of Medium Businesses, Apts./Condos	0		
No. of Major Businesses, Apts./Condos	0		
No. of Minor Street Intersections	9	Subdivision, Residential, or Other streets serving the residents of that street.	
No. of Major Street Intersections	0	Streets which serve both the residents and commuters of the area.	
No. of Signalized/Roundabout Intersections	1	Do not include intersections at the beginning or end of the section.	
No. of Interchange Ramps	0	Do not include Loop ramps at the beginning or end of the section.	
Lane Width (Round down to nearest foot)	10	General width of through lanes throughout the section.	
Shoulder Width (Round down to nearest foot)	1	General shoulder width throughout the section.	
No. of Property Damage Only Crashes	15	Latest three years of data	
No. of Injury Crashes	11	Weighted value is 2x that of a Property Damage Only Crash	
No. of Fatal Crashes	0	Weighted value is 4x that of a Property Damage Only Crash	
Presence of Vulnerable Road Users	High	Pedestrians / Bicyclists / Amish Buggies / etc..	
Urban Features	No	Sidewalks / Crosswalks / Curb & Gutter / On-Street Parking / Street Lighting / etc..	
50 th Percentile Speed	46	Average of all speed samples that were taken.	
85 th Percentile Speed	51	Average of all speed samples that were taken.	
10-mph Pace Speed	42	to 51	Average of all speed samples that were taken.
Roadway Characteristics	A1	CATEGORIES: C B3 B2 B1 A3 A2 A1 DIV	

To View Calculation Sheet or Examples of Roadway Characteristics and Crashes to Include, use Buttons Below.

CALCULATION SHEET

ROADWAY CHARACTERISTICS

CRASHES TO INCLUDE

CALCULATED SPEED: **49** MPH

USLIMITS2 SPEED: **45** MPH

REQUESTED SPEED: **45** MPH

ADDITIONAL CONSIDERATIONS AND COMMENTS

STUDY BY: **FCEO - Mobility**

DATE: **December 13, 2022**

INCLUDE THE RELATED RESOLUTION(S) WHEN SUBMITTING THIS FORM

BELOW FOR ODOT USE ONLY

CHECKED BY:

TEST RUN: MPH

APPROVED SPEED: MPH

Speed Check

Location: Morse Rd Btwn RNA and Kitzmiller
 Date: 12/8/2022 Day: Thursday County: Franklin
 Observer(s): Alex Crandall Shoulder Width: 1'
 Pavement Type: Asphalt Dry: X Wet: _____ Condition: _____ Lane Width: 10'
 Weather: Overcast Temperature: 43° F Speed Limit: 50

E Bound, Time: <u>11:15</u> AM to <u>12:15</u> PM					MPH	W Bound, Time: <u>11:15</u> AM to <u>12:15</u> PM				
Com. %	Cum. Total	No.	Vehicles			Passenger Cars	Commercial	No.	Cum. Total	Com. %
			Commercial	Passenger Cars						
					80+					
					79					
					78					
					77					
					76					
					75					
					74					
					73					
					72					
					71					
					70					
					69					
					68					
					67					
					66					
					65					
					64					
					63					
					62					
					61					
					60					
					59					
					58	1		1	84	100%
					57			0	83	99%
					56	1		1	83	99%
					55			0	82	98%
					54			0	82	98%
					53	3		3	82	98%
100%	85	1		1	52	1		1	79	94%
99%	84	1		1	51	3		3	78	93%
98%	83	1		1	50	2		2	75	89%
96%	82	3		3	49	4		4	73	87%
93%	79	9		9	48	2		2	69	82%
82%	70	4		4	47	11		11	67	80%
78%	66	2		2	46	3		3	56	67%
75%	64	6		6	45	7		7	53	63%
68%	58	6		6	44	10		10	46	55%
61%	52	11	2	9	43	9		9	36	43%
48%	41	10	2	8	42	4	1	5	27	32%
36%	31	6		6	41	6		6	22	26%
29%	25	5		5	40	5		5	16	19%
24%	20	7	1	6	39	3		3	11	13%
15%	13	3		3	38	2	1	3	8	10%
12%	10	4		4	37	1	1	2	5	6%
7%	6	1		1	36		1	1	3	4%
6%	5	2		2	35	1		1	2	2%
4%	3	1	1		34			0	1	1%
2%	2	1		1	33			0	1	1%
1%	1	0			32			0	1	1%
1%	1	0			31			0	1	1%
1%	1	1		1	30-	1		1	1	1%
	85	85	6	79	Totals	80	4	84	84	

85th Percentile = 48 MPH

85th Percentile = 49 MPH

Speed Check

Location: Morse Road west of RNA
 Date: 11/4/2022 Day: Friday County: Franklin
 Observer(s): Maggan Sheikh Shoulder Width: 0'
 Pavement Type: Asphalt Dry: X Wet: _____ Condition: Clear Lane Width: 9'
 Weather: Sunny Temperature: 53° F Speed Limit: 50

W Bound, Time: <u>9:00</u> AM to <u>10:00</u> AM					MPH	E Bound, Time: <u>9:00</u> AM to <u>10:00</u> AM				
Com. %	Cum. Total	No.	Vehicles			Passenger Cars	Commercial	No.	Cum. Total	Com. %
			Commercial	Passenger Cars						
					80+					
					79					
					78					
					77					
					76					
					75					
					74					
					73					
					72					
					71					
					70					
					69					
					68					
					67					
					66					
					65					
					64					
100%	77	1		1	63					
99%	76	1		1	62					
97%	75	0			61					
97%	75	1		1	60					
96%	74	0			59	1		1	74	100%
96%	74	0			58			0	73	99%
96%	74	0			57	1		1	73	99%
96%	74	2		2	56	4		4	72	97%
94%	72	3		3	55	1		1	68	92%
90%	69	4		4	54	2		2	67	91%
84%	65	1		1	53	1		1	65	88%
83%	64	3		3	52	3		3	64	86%
79%	61	3		3	51	1		1	61	82%
75%	58	5		5	50	8		8	60	81%
69%	53	7		7	49	5		5	52	70%
60%	46	8		8	48	9	1	10	47	64%
49%	38	4	1	3	47	8		8	37	50%
44%	34	12		12	46	6	1	7	29	39%
29%	22	1		1	45	5		5	22	30%
27%	21	3		3	44	3	1	4	17	23%
23%	18	5		5	43	3		3	13	18%
17%	13	3		3	42	4	1	5	10	14%
13%	10	4		4	41			0	5	7%
8%	6	3	1	2	40		1	1	5	7%
4%	3	1		1	39		1	1	4	5%
3%	2	0			38	2		2	3	4%
3%	2	2		2	37	1		1	1	1%
					36					
					35					
					34					
					33					
					32					
					31					
					30-					
	77	77	2	75	Totals	68	6	74	74	
85th Percentile = 54 MPH						85th Percentile = 52 MPH				

Speed Check

Location: Morse Rd east of Johnstown Rd
 Date: 11/4/2022 Day: Friday County: Franklin
 Observer(s): Alex Crandall Shoulder Width: 2'
 Pavement Type: Asphalt Dry: X Wet: _____ Condition: _____ Lane Width: 11'
 Weather: Sunny Temperature: 60° F Speed Limit: 50

East Bound, Time: <u>1:25</u> PM to <u>2:25</u> PM					MPH	West Bound, Time: <u>1:25</u> PM to <u>2:25</u> PM				
Com. %	Cum. Total	No.	Vehicles			Passenger Cars	Commercial	No.	Cum. Total	Com. %
			Commercial	Passenger Cars						
					80+					
					79					
					78					
					77					
					76					
					75					
					74					
					73					
					72					
					71					
					70					
					69					
					68					
100%	70	1		1	67	1		1	63	100%
99%	69	0			66			0	62	98%
99%	69	0			65			0	62	98%
99%	69	0			64			0	62	98%
99%	69	0			63			0	62	98%
99%	69	0			62			0	62	98%
99%	69	0			61			0	62	98%
99%	69	0			60			0	62	98%
99%	69	1		1	59			0	62	98%
97%	68	0			58	2		2	62	98%
97%	68	0			57			0	60	95%
97%	68	0			56			0	60	95%
97%	68	0			55	2		2	60	95%
97%	68	2		2	54	5		5	58	92%
94%	66	2		2	53	2		2	53	84%
91%	64	3		3	52	4	1	5	51	81%
87%	61	5		5	51	3		3	46	73%
80%	56	8		8	50	5	1	6	43	68%
69%	48	12		12	49	5		5	37	59%
51%	36	9		9	48	5	1	6	32	51%
39%	27	5		5	47	6	1	7	26	41%
31%	22	7		7	46	5		5	19	30%
21%	15	4		4	45	3		3	14	22%
16%	11	2		2	44	3	1	4	11	17%
13%	9	2	1	1	43	2	1	3	7	11%
10%	7	1		1	42			0	4	6%
9%	6	2	1	1	41	1		1	4	6%
6%	4	2		2	40	3		3	3	5%
3%	2	1		1	39					
1%	1	1		1	38					
					37					
					36					
					35					
					34					
					33					
					32					
					31					
					30-					
	70	70	2	68	Totals	57	6	63	63	

85th Percentile = 51 MPH

85th Percentile = 54 MPH

USLIMITS2 Speed Zoning Report

Project Overview

Project Name: Morse Rd Speed Study

Analyst: Kristen Mastalski

Date: 2022-12-13

Basic Project Information

Route Name: Morse Rd
From: Johnstown Rd
To: Kitzmiller Rd
State: Ohio
County: Franklin County
City: New Albany village
Route Type: Road Section in Developed Area
Route Status: Existing

Roadway Information

Section Length: 2.04 mile(s)
Statutory Speed Limit: 50 mph
Existing Speed Limit: 50 mph
Adverse Alignment: No
One-Way Street: No
Divided/Undivided: Undivided
Number of Through Lanes: 2
Area Type: Residential-Collector/Arterial
Number of Driveways: 27
Number of Signals: 0

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: 51 mph
50th Percentile Speed: 46 mph
AADT: 10301 veh/day
On Street Parking and Usage: Not High
Pedestrian / Bicyclist Activity: High

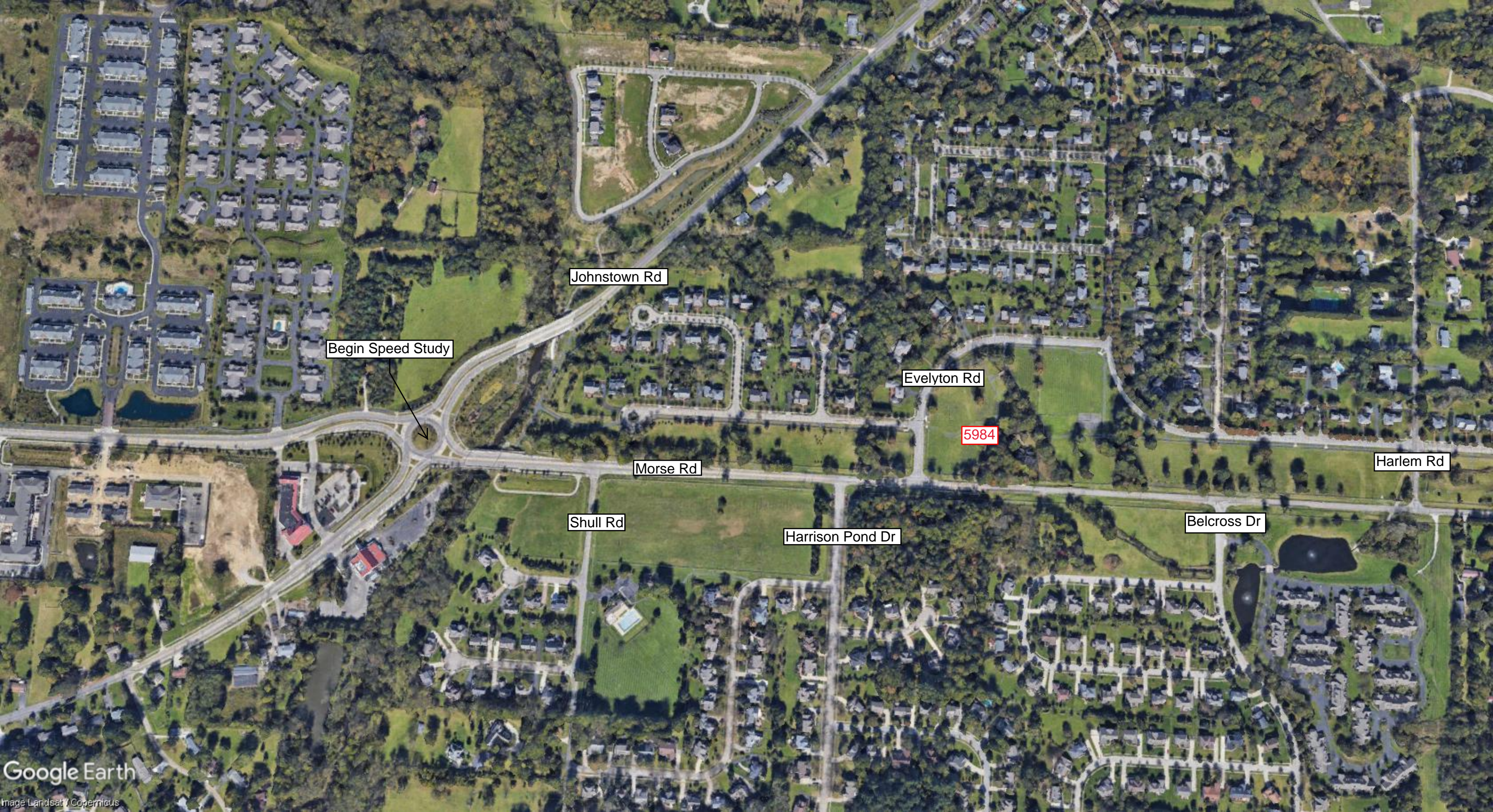
Recommended Speed Limit:



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: The road section is in an area with high pedestrian or bicycle activity. Consider implementing engineering measures to reduce speeds before lowering the recommended speed limit. See [Engineering Countermeasures for Speed Management](#) and [PedSafe](#) for more guidance.

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.



Johnstown Rd

Begin Speed Study

Evelyton Rd

5984

Morse Rd

Harlem Rd

Shull Rd

Harrison Pond Dr

Belcross Dr



6300

Head of Pond Rd

6350

White Oak Ln

Jensen Park Dr

Havant Dr

Reynoldsburg-
New Albany Rd

6644

6632

6710

6750

6603

6611

6589

6585

6855

6931

6889

6945



End Speed Study

7006

6965

6975

Kitzmilller Rd