GTS Consulting
1396 White Bridge Road
Chittenango, NY 13037
Tel: (315) 391-5110

July 2, 2026

Capron Realty LLC
7985 Kellogg Street
Clinton, NY 13323

Attn: Mr. R Luke Lewis

Re: Traffic Operations Review – Proposed Henderson Housing Residential Development
Henderson Street – Town of Whitestown, NY

Dear Mr. Lewis:

I have completed my review of the traffic operations associated with the proposed Henderson Housing residential development on Henderson Street in the Town of Whitestown, NY. This letter summarizes the work completed in this review as well as my findings.

Project Understanding

The project site is located on the northeast side of Henderson Street, immediate southeast of 4932 Henderson Street, in the Town of Whitestown, NY. The property is currently vacant and wooded. The proposed residential development includes 78 townhomes. Access to the development is proposed via one full access driveway to Henderson Street approximately 560 feet south of the Aiken Avenue intersection.

A schematic plan dated June 24th, 2026, has been attached.

Data Collection

Site visits were conducted on Thursday, June 13th, 2024 to collect the following:

- Spot Speed Measurements – 50 speed measurements were collected in each direction on Henderson Street passing the site to properly identify average and 85th percentile operating speeds in the area. The speed data was collected during off-peak periods under free flow conditions. There was no traffic congestion that had any impact on free flow speeds and it was a clear sunny day.

- Sight Distance Measurements – Sight lines looking northwest and southeast along Henderson Street from the proposed site access were collected for comparison to design standards in order to confirm that adequate sight lines are available for safe ingress and egress from the site.

- Operational Data - Other data needed to evaluate traffic operations, such as roadway geometry, control, and speeds limits were also collected.

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Existing Operations

Henderson Street is classified as a major urban collector road in the area and has one lane in each direction passing the site. The posted speed limit on Henderson Street is 35 mph.

Historical traffic volume data on Henderson Street was taken from the NYSDOT Traffic Data Viewer website to identify daily traffic volumes as well as existing peak hour traffic volumes passing the site during the typical weekday morning and evening peak commuter periods. Overall, Henderson Street carries approximately 6,717 vehicles per day passing the site. Based on an average of two days of directional counts that were collected on Wednesday June 24th, 2020 and Thursday June 25th, 2020, Henderson Street carries approximately 226 vehicles southbound/98 vehicles northbound passing the site during the weekday morning peak hour (8-9am) and 246 vehicles southbound/304 vehicles northbound passing the site during the evening peak hour (4-5pm). The historical traffic count data has been attached.

Assuming the traffic volumes are relatively uniform passing the site during the peak hours, the average gap between vehicles would be 16-37 seconds in each direction during the morning peak hour and 12-15 seconds in each direction during the evening peak hour. The average motorist requires a 6-9 second gap in traffic to safely turn into or out of a side road onto a two lane roadway. The average gaps in traffic are well above the minimum gap that is recommended. There are no concerns with available gaps in traffic for motorists turning into or out of the proposed development.

The posted speed limit in the area on Henderson Street is 35 mph passing the site. The speed data collected indicates that the average speeds passing the site on Henderson Street are 38 mph northbound and 39 mph southbound. The 85th percentile speeds passing the site on Henderson Street are approximately 40.5 mph in the northbound direction and 40 mph in the southbound direction. The 85th percentile speeds are considered the operating speeds and are typically used for design and analysis. The speed data has been attached.

The following table provides a summary of the recommended sight distances along Henderson Street from the AASHTO A Policy on Design of Highways and Streets as well as the available sight distances based on field measurements.

Sight Distance Summary

Location	Operating Speed	Direction	AASHTO Recommended Sight Distance	Available Sight Distance
Site Access @ Henderson Street – Turning Left	40 mph	Looking Left	445 feet	380 feet
		Looking Right	445 feet	600+ feet
Site Access @ Henderson Street – Turning Right	40 mph	Looking Left	385 feet	380 feet

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There are more than adequate sight distances available on Henderson Street looking northwest from the proposed site access. The sight distance to the southeast is limited by the crest vertical curve immediately to the south of the proposed access, however it is still within 85% of the recommended value. The sight lines are consistent with existing residential home driveways across the street from the development. A "Driveway Ahead" warning sign could be considered on Henderson Street northbound approaching the sight access to improve driver awareness. There are no significant concerns with sight distances and safety for ingress and egress from the site.

Trip Generation Estimate

The proposed development includes 78 townhomes. Trips generated by the development were reviewed using the ITE Trip Generation, 12th Edition, which is the industry accepted standard for estimating traffic generated by new developments. Land Use 215 – Single-Family Attached Housing was used for the estimate.

The following table summarizes the trip generation estimate for the proposed Henderson Housing residential development on Henderson Street in the Town of Whitestown, NY.

Trip Generation Estimate – Henderson Housing Residential Development

	Overall Weekday		Morning Peak Hour		Evening Peak Hour	
	Entering	**Exiting**	**Entering**	**Exiting**	**Entering**	**Exiting**
Townhomes – 78 Units	256	256	9	28	23	17

The detailed trip generation calculations have been attached.

Overall, the proposed development is a minor traffic generator that will generate less than 30 cars entering and existing during the peak hours.

Many people expect that residential land uses will generate an average of 2 trips per unit during peak hours. The trip generation rates for residential land uses are generally less than 1 trip per unit for a number of reasons. The primary reason is that people work different times, some may leave for work at 6:30 in the morning while others may leave at 7:30 or 8:30. Subsequently, the arrival patterns home in the evening will also be staggered over multiple hours. Some people work evenings while others may stay at home or work from home. The rates contained in the ITE Trip Generation have been verified and provide an accurate representation of what may be expected for this development during the peak hours of the adjacent streets.

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Impacts on Adjacent Street

With less than 30 vehicles entering or exiting during the peak hours, the additional traffic generated by the proposed development will have negligible impacts on traffic operations in the area. The traffic generated by the development will generally not even be noticeable to existing motorists traveling through the area on Henderson Street.

Conclusions

The additional traffic generated by the proposed Henderson Housing residential development is minor and will have no noticeable impact on traffic operations on Henderson Street in the Town of Whitestown. The average gaps in traffic are more than sufficient to accommodate turning movements into or out of the development. The sight line looking southwest from the proposed access is limited due the crest vertical curve on Henderson Street, however it is consistent with other residential driveways in the immediate area. A "Driveway Ahead" warning sign on Henderson Street northbound approach the site could be considered. There are no other off-site mitigation measures recommended.

If you have any questions or need additional information, please call.

Sincerely,

Gordon T. Stansbury, P.E., P.T.O.E.
GTS Consulting

Attachments – Schematic Plan
Speed Data
Historical Count Data
Trip Generation Calculations

Henderson Housing - Concept Site Plan

Whitestown, NY

JUNE 24, 2026

SCALE IN FEET 0 40 80 120

KEPLINGER FREEMAN ASSOCIATES
LANDSCAPE ARCHITECTURE & LAND PLANNING

Hourly Direction Report NYSDOT_SC 266177000000 Wednesday, June 24, 2020 to Thursday, June 25, 2020

Site Name	266177	
Site ID	266177000000	
Description	CR26B HENDERSON ST from NY MILLS VL / WHITESTOWN T/L to AFTER NEW HARTFORD T/L	
Region		2
County	Oneida	
DOTID		123938
County Order		1

Exclude data: None

Time	NB	SB	Total
00:00:00	8	9	17
01:00:00	6	8	14
02:00:00	6	4	9
03:00:00	2	4	6
04:00:00	4	14	18
05:00:00	14	30	45
06:00:00	36	100	136
07:00:00	72	193	265
08:00:00	98	226	325
09:00:00	144	230	374
10:00:00	195	256	451
11:00:00	236	251	486
12:00:00	262	258	519
13:00:00	242	249	490
14:00:00	260	255	514
15:00:00	286	238	523
16:00:00	304	246	550
17:00:00	308	231	538
18:00:00	226	184	410
19:00:00	182	129	311
20:00:00	132	104	236
21:00:00	78	68	146
22:00:00	34	32	66
23:00:00	18	10	28
7am-7pm	2630	2816	5446
6am-10pm	3058	3218	6276
6am-12am	3110	3260	6370
12am-12am	3150	3330	6480
am Peak	11:00:00	10:00:00	11:00:00
Peak Volume	236	256	486
pm Peak	17:00:00	12:00:00	16:00:00
Peak Volume	308	258	550

Proposed Henderson Housing Residential Development

Speed Study Measurements - Henderson Street Passing Site

6/13/2024

Distance Travelled (ft) = 135 50 Speed Measurements per Direction Speed Limit 35 mph

EB Time Seconds	Calculated Speed	EB Time Seconds	Calculated Speed	WB Time Seconds	Calculated Speed	WB Time Seconds	Calculated Speed
2.69	34	2.38	39	2.66	35	2.44	38
2.66	35	2.38	39	2.83	33	2.44	38
2.59	36	2.38	39	2.72	34	2.38	39
2.56	36	2.37	39	2.69	34	2.38	39
2.56	36	2.35	39	2.66	35	2.36	39
2.53	36	2.34	39	2.63	35	2.35	39
2.53	36	2.33	40	2.63	35	2.35	39
2.51	37	2.33	40	2.6	35	2.34	39
2.5	37	2.31	40	2.57	36	2.34	39
2.5	37	2.31	40	2.53	36	2.33	40
2.49	37	2.31	40	2.53	36	2.32	40
2.49	37	2.30	40	2.52	37	2.32	40
2.48	37	2.3	40	2.5	37	2.31	40
2.47	37	2.29	40	2.5	37	2.31	40
2.46	37	2.28	40	2.5	37	2.3	40
2.44	38	2.28	40	2.48	37	2.29	40
2.42	38	2.28	40	2.47	37	2.29	40
2.41	38	2.28	40	2.47	37	2.29	40
2.41	38	2.27	41	2.47	37	2.29	40
2.41	38	2.25	41	2.47	37	2.29	40
2.4	38	2.23	41	2.47	37	2.28	40
2.4	38	2.22	41	2.46	37	2.28	40
2.4	38	2.21	42	2.44	38	2.25	41
2.38	39	2.20	42	2.44	38	2.25	41
2.38	39	2.19	42	2.44	38	2.22	41

Eastbound

Average Speed = 39 mph

85th Percentile Speed = 40.5 mph

Westbound

Average Speed = 38 mph

85th Percentile Speed = 40 mph

Proposed Henderson Housing Residential Development
Henderson Street, Town of Whitestown
Trip Generation Estimate

Proposed Development 78 Townhomes

ITE Trip Generation - 12th Edition

Land Use 215 - Single Family Attached Housing

Weekday	6.57 Trips/Unit	50% Enter	50% Exit
AM Peak Hour	0.47 Trips/Unit	25% Enter	75% Exit
PM Peak Hour	0.51 Trips/Unit	57% Enter	43% Exit

Trip Generation Estimate - Proposed Henderson Housing Residential Development

		Overall Weekday			Morning Peak Hour			Evening Peak Hour		
Development	**Size**	**Total Trips**	**Entering**	**Exiting**	**Total Trips**	**Entering**	**Exiting**	**Total Trips**	**Entering**	**Exiting**
Townhomes	78 Units	512	256	256	37	9	28	40	23	17