

Shell Road and Greenbriar Avenue Traffic Study

Prepared By
Gregory Moyer, PE

For
Jason Mitchell
Public Works Director

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Shell Road and Greenbriar Avenue Traffic Study

Executive Summary

Public Works completed a multi-way stop controlled intersection study on Shell Road and Greenbriar Avenue. The data indicates customers are traveling mph 41.2 mph or 6.2 mph over the posted speed limit of 35 mph on Shell Road. The data indicates customers are traveling 31.4 mph or 6.4 mph above the posted speed limit of 25 mph on Greenbriar Avenue. The intersection met two of the warrants for a multi-way stop controlled intersection. It is recommended to relocate the stop signs closer to the intersection and install stop bar pavement markings at the stop signs. No other improvements are recommended.

Introduction

Shell Road is a major collector roadway. Greenbriar Avenue is a local street. Shell Road is 24 feet wide from edge of pavement to edge of pavement with no on-street parking. Greenbriar Avenue is 24 feet wide from edge of pavement to edge of pavement with on-street parking on both sides of the street.

Background

The posted speed limit on Shell Road is 35 mph. The posted speed limit on Greenbriar Avenue is 25 mph. The 85th percentile speed on Shell Road is 41.2 mph or 6.2 mph above the posted speed limit. The 85th percentile speed on Greenbriar Avenue is 31.4 mph or 6.4 mph above the posted speed limit.

Traffic Volumes

The average number of vehicles on Shell Road was 3,397 vehicles per day. The average number of vehicles on Greenbriar Avenue is 1,370 vehicles per day.

Excessive Speeding Shell Road

The total number of vehicles exceeding 20 mph or more than the speed limit is 2,095 vehicles or 5.3% of the total number of 39,435 vehicles observed on Shell Road from two traffic counters over an eight day period. Excessive speed was observed from 6:00 AM to 9:00 AM, 12:00 PM to 2:00 PM, and 3:00 PM to 7:00 PM. Most vehicles traveling 20 mph or more were traveling at non-consistent times in the study.

Excessive Speeding Greenbriar Avenue

The total number of vehicles exceeding 20 mph or more than the speed limit is 573 vehicles or 3.3% of the total number of 17,322 vehicles observed on Shell Road from two traffic counters over an eight day period. Excessive speed was observed from 6:00 AM to 9:00 AM, 10:00 AM

to 12:00 PM, 3:00 PM to 6:00 PM, and 8:00 PM to 11:00 PM. Most vehicles traveling 20 mph or more were traveling at non-consistent times in the study.

Multi-Way Stop Controlled Intersection Warrants

The first multi-way stop warrant for vehicle counts verifies that more than 300 vehicles per hour per 8 hours on the major street and more than 200 total vehicles, pedestrians, and bicycles are present for the same 8 hours on the minor street. An average delay on the minor street of 30 seconds per vehicle during the peak hour is also required. A reduction factor of 70% of the total required vehicles for major and minor streets is permitted if the major street 85th percentile speed is greater than 40 miles per hour. This reduction reduces the 300 vehicles per hour per eight hours for the major street to 210 vehicles per hour for eight hours and the minor street requirement to 140 vehicles, pedestrians, and bicycles per hour for the same eight hours. Additionally, other warrants include a crash warrant and sight distance warrant.

Vehicle Multi-Way Stop Warrant Analysis

The first multi-way stop warrant for vehicle counts verifies that more than 210 vehicles per hour per 8 hours and more than 140 total vehicles, pedestrians, and bicycles are present for the same 8 hours. Speeds observed on Shell Road were more than 40 mph on Shell Road. The volume adjustment was applied. The volumes on Shell Road were more than 210 vehicles per hour for seven hours. The volumes on Greenbriar Avenue were below 140 vehicles any hours of the day. The maximum volume on Shell Road for one hour was 341 vehicles per hour. The maximum volume on Greenbriar Avenue for one hour was 112 vehicles per hour. There were no hours where volumes were above 210 vehicles on Shell Road and 140 vehicles on Greenbriar Avenue at the same time. The traffic volume warrants were not met for a multi-way stop controlled intersection.

Crash Analysis

Eighteen crashes were reported at the intersection of Shell Road and Greenbriar Avenue from 2019 to 2023. Four crashes were reported in 2019, five crashes were reported in 2020, five crashes were reported in 2021, four crashes were reported in 2022, and no crashes were reported in 2023. Sixteen of the crashes were angle crashes and two of the crashes were other types of crashes. Five of the crashes involved a serious injury, nine of the crashes involved a possible injury, and four crashes involved property damage only. Twelve of the crashes involved a vehicle not yielding the right-of-way. Two crashes involved disregarding the stop or yield sign, two crashes involved a hit and run, and one crash involved an unsafe lane change.

Thirteen of the crashes at the intersection were from vehicles traveling in the southbound direction of Greenbriar Avenue. Six of the crashes involved a vehicle that stopped at the stop sign and then proceeded into the intersection causing a collision. Five of the crashes confirmed a vehicle ran the stop sign at the intersection. Seven of the crashes did not clarify if a vehicle stopped at the stop sign before proceeding or did not stop at the stop sign.

The average crash rate at the intersection of Shell Road and Greenbriar Avenue is 3.6 crashes per year. The intersection crash rate in terms per millions of miles is 2.90. The crash severity of the intersection is 25.75, which is well above the average severity rate of 8.4.

Multi-Way Stop Control Crash Warrant Analysis

This warrant is evaluated if there are five or more crashes in a twelve month period or six or more crashes reported in a 36 month period that were susceptible to correction by the installation of all-way stop control. There were seven crashes that occurred in a twelve month period from September, 2021 to September, 2022. Three of the crashes were preventable if a multi-way stop controlled intersection existed at the intersection. There were fourteen crashes within a 36 month period from 2019 to 2021. Six of the fourteen crashes were preventable by a multi-way stop controlled intersection. The crash warrant was met for the intersection.

Sight Distance Analysis

Sight distance on northbound Greenbriar Avenue is restricted looking westbound on Shell Road from a utility pole with electrical equipment and adequate looking eastbound on Shell Road. The sight distance of 160 feet is than the required 250 feet on northbound Greenbriar Avenue looking west on Shell Road. Sight distance on southbound Greenbriar Avenue is acceptable looking east and west on Shell Road. A vehicle at a private driveway on southbound Greenbriar Avenue looking east may obstruct sight distances if parked in a manner of blocking the sidewalk or parking in the driveway closer to Shell Road.

Sight distance on eastbound Shell Road looking north on Greenbriar Avenue is obstructed by electrical boxes. Sight distance on eastbound Shell Road looking south on Greenbriar Avenue is obstructed by parked cars. Sight distance on westbound Shell Road looking north and south on Greenbriar Avenue is adequate.

Sight distances are limited on northbound Greenbriar Avenue and are potentially limited on southbound Greenbriar Avenue depending on the manner of vehicles parked in a private driveway. This warrant is met.

Traffic Observations

Traffic on Shell Road was light to moderate at times. Traffic on Greenbriar Avenue was light with small delays if any from on-coming traffic on Shell Road. Many vehicles did not come to a complete stop at the stop signs on Greenbriar Avenue.

Recommendations

The crash warrant and sight distance warrants were met at the intersection for a multi-way stop controlled intersection. Most of the crashes occurred from vehicles traveling on southbound Greenbriar Avenue. It is possible that vehicles parked in an adjacent home could obstruct sight distance if not parked correctly or if more than two vehicles are within the driveway. With the vehicles parked correctly as noted in the field sight distance measurements, the vehicles do not obstruct the sight distance on southbound Greenbriar Avenue. The stop signs are 16 feet from the edge of the roadway on northbound Greenbriar Avenue and 19 feet from the edge of the

roadway on southbound Greenbrier Avenue. It is recommended to relocate the stop signs and install a stop bar at the stop signs. Vehicles may stop too far back from Shell Road and the vehicles in the driveway may obstruct their view at this location. Vehicles parking over and beyond the sidewalk may obstruct sight distance at the intersection. It is not recommended to install a multi-way stop controlled intersection even though it is warranted by the sight distance and crash data. Traffic on Greenbrier Avenue is infrequent and significantly less than on Shell Road, which may lead to vehicles on Shell Road to disregard the stop signs. The relocation of the stop signs may decrease vehicles from stopping too far back from the intersection and decrease crash rates.

Appendix A

Shell Road Traffic Counts

24 Hour Speed																
Combined Channels																
mph	Total	0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200	Avg.	
3:00 PM	178	0	3	9	23	46	48	38	8	2	1	0	0	0	35.5	
4:00 PM	214	2	4	7	17	60	76	38	9	1	0	0	0	0	35.5	
5:00 PM	210	1	1	17	23	52	71	37	6	2	0	0	0	0	35.1	
6:00 PM	207	2	2	19	27	60	55	33	7	2	0	0	0	0	34.2	
7:00 PM	137	0	0	15	16	39	41	15	11	0	0	0	0	0	34.9	
8:00 PM	105	1	0	8	10	35	35	15	1	0	0	0	0	0	34.2	
9:00 PM	86	0	2	6	18	26	25	6	2	1	0	0	0	0	33.3	
10:00 PM	60	0	2	6	11	12	17	10	1	1	0	0	0	0	33.7	
11:00 PM	32	0	0	1	2	7	12	5	1	3	1	0	0	0	38.1	
4/17/2024																
12:00 AM	18	0	0	0	4	9	3	1	1	0	0	0	0	0	34.5	
1:00 AM	17	1	0	0	1	4	5	6	0	0	0	0	0	0	36.3	
2:00 AM	12	0	1	0	2	2	3	4	0	0	0	0	0	0	35.3	
3:00 AM	14	0	0	0	2	7	2	3	0	0	0	0	0	0	33.9	
4:00 AM	34	0	0	0	5	5	11	7	5	0	0	0	0	1	38.6	
5:00 AM	70	0	0	7	7	8	19	21	7	1	0	0	0	0	37.3	
6:00 AM	101	1	2	5	15	27	22	22	5	2	0	0	0	0	35.1	
7:00 AM	131	1	3	12	15	28	38	23	7	4	0	0	0	0	35.0	
8:00 AM	141	3	3	11	27	39	37	14	6	1	0	0	0	0	32.9	
9:00 AM	126	0	4	9	9	31	48	19	5	0	1	0	0	0	35.2	
10:00 AM	106	1	6	7	19	28	23	22	0	0	0	0	0	0	33.0	
11:00 AM	129	0	3	5	28	35	30	22	6	0	0	0	0	0	34.2	
12:00 PM	132	1	0	14	21	35	40	15	6	0	0	0	0	0	33.8	
1:00 PM	137	0	7	9	23	40	38	15	3	1	1	0	0	0	33.5	
2:00 PM	166	2	1	10	20	42	57	23	9	1	0	0	0	1	35.2	
Total	2563	16	44	177	345	677	756	414	106	22	4	0	0	2	34.7	
%		0.6	1.7	6.9	13.5	26.4	29.5	16.2	4.1	0.9	0.2	0.0	0.0	0.1		
Average (Mean) 34.7 mph																
Minimum 10.9 mph																
Maximum 79.0 mph																
Pace Range 31.0 - 41.0 mph 1469 vehicles (57.3%)																
Percentile Speeds (mph)																
10% 25.3																
15% 27.5																
50% 35.2																
85% 41.4																
90% 42.7																
Speeds Exceeded																
25 mph 90.7% (2325)																
35 mph 50.6% (1296)																
45 mph 5.2% (133)																
55 mph 0.2% (5)																
65 mph 0.1% (2)																
75 mph 0.1% (2)																

24 Hour Speed														
Combined Channels														
mph	Total	0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200
3:00 PM	204	0	1	21	25	35	67	42	7	4	0	2	0	0
4:00 PM	228	1	5	15	24	74	68	28	12	1	0	0	0	0
5:00 PM	222	0	4	7	27	57	91	24	11	1	0	0	0	0
6:00 PM	189	1	4	15	20	57	55	25	10	0	2	0	0	0
7:00 PM	133	1	1	8	23	39	40	14	7	0	0	0	0	0
8:00 PM	129	0	4	8	23	42	38	11	3	0	0	0	0	0
9:00 PM	90	0	1	12	7	31	19	13	5	1	0	0	0	0
10:00 PM	48	0	0	2	4	17	18	5	2	0	0	0	0	0
11:00 PM	39	0	0	1	6	10	12	7	1	1	0	1	0	0
4/18/2024														
12:00 AM	28	0	1	5	3	7	8	2	1	1	0	0	0	0
1:00 AM	20	0	1	2	2	8	5	2	0	0	0	0	0	0
2:00 AM	20	0	0	1	1	8	3	5	2	0	0	0	0	0
3:00 AM	14	0	0	0	2	5	6	1	0	0	0	0	0	0
4:00 AM	31	0	0	0	4	3	9	7	2	1	1	1	1	0
5:00 AM	70	0	0	4	7	5	26	16	11	0	0	1	0	0
6:00 AM	92	3	3	2	8	22	30	16	7	1	0	0	0	0
7:00 AM	96	2	4	4	5	17	30	20	12	2	0	0	0	0
8:00 AM	106	1	4	7	10	23	29	18	8	6	0	0	0	0
9:00 AM	108	0	1	7	8	19	38	24	9	2	0	0	0	0
10:00 AM	110	1	2	9	12	28	28	26	3	1	0	0	0	0
11:00 AM	143	0	7	15	18	48	34	14	6	1	0	0	0	0
12:00 PM	152	0	3	15	30	35	29	30	7	3	0	0	0	0
1:00 PM	150	1	1	5	24	43	47	22	7	0	0	0	0	0
2:00 PM	168	1	2	9	11	36	64	27	14	2	1	0	1	0
Total	2590	12	49	176	304	669	794	399	147	28	5	5	2	0
%		0.5	1.9	6.8	11.7	25.8	30.7	15.4	5.7	1.1	0.2	0.2	0.1	0.0
Average (Mean) 35.1 mph Minimum 10.0 mph Maximum 68.3 mph Pace Range 31.1 - 41.1 mph 1499 vehicles (57.9%)														
Percentile Speeds (mph) 10% 25.4 15% 27.6 50% 35.5 85% 41.9 90% 43.8														
Speeds Exceeded 25 mph 90.7% (2348) 35 mph 53.1% (1374) 45 mph 7.0% (182) 55 mph 0.5% (12) 65 mph 0.1% (2) 75 mph 0% (0)														

24 Hour Speed																
mph	Combined Channels															
	Total	0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200	Avg.	
3:00 PM	194	1	5	8	20	46	68	29	12	4	0	1	0	0	35.8	35.6
4:00 PM	216	2	3	12	15	70	64	40	7	3	0	0	0	0	35.6	36.1
5:00 PM	211	2	1	8	20	45	86	37	10	1	0	1	0	0	34.1	33.1
6:00 PM	207	1	4	14	28	65	57	29	9	0	0	0	0	0	33.1	32.9
7:00 PM	147	1	1	13	27	51	36	14	4	0	0	0	0	0	34.0	33.2
8:00 PM	135	1	3	15	19	47	39	8	2	0	1	0	0	0	35.6	36.1
9:00 PM	74	0	2	6	11	24	20	6	4	1	0	0	0	0	37.5	31.1
10:00 PM	77	0	3	5	17	19	22	7	3	1	0	0	0	0	34.9	39.2
11:00 PM	54	0	0	2	11	13	15	9	4	0	0	0	0	0	38.6	33.6
4/19/2024																
12:00 AM	24	0	0	0	2	9	8	4	1	0	0	0	0	0	34.8	34.5
1:00 AM	21	0	0	0	2	5	6	7	1	0	0	0	0	0	35.0	33.0
2:00 AM	22	0	0	4	7	6	2	2	1	0	0	0	0	0	33.5	33.8
3:00 AM	13	0	1	2	0	2	3	4	1	0	0	0	0	0	34.8	34.5
4:00 AM	32	0	0	1	1	10	7	7	3	2	0	1	0	0	38.6	33.6
5:00 AM	58	0	0	2	5	5	20	18	5	3	0	0	0	0	34.8	34.5
6:00 AM	113	0	8	8	13	29	37	12	5	1	0	0	0	0	35.0	33.0
7:00 AM	115	2	7	10	8	23	33	25	5	2	0	0	0	0	33.5	33.8
8:00 AM	104	0	2	12	14	26	30	11	8	1	0	0	0	0	34.8	34.5
9:00 AM	99	0	5	8	8	19	34	15	9	0	1	0	0	0	35.0	33.0
10:00 AM	137	1	7	10	26	40	37	7	6	1	1	1	0	0	33.5	33.8
11:00 AM	115	0	3	17	19	24	33	11	7	1	0	0	0	0	34.8	34.5
12:00 PM	168	0	1	16	26	56	40	23	4	2	0	0	0	0	35.0	33.0
1:00 PM	137	1	0	12	13	35	55	14	7	0	0	0	0	0	33.5	33.8
2:00 PM	185	1	3	15	24	47	57	29	8	1	0	0	0	0	34.8	34.5
Total	2658	13	59	200	336	716	809	368	126	24	3	4	0	0	34.6	34.6
%		0.5	2.2	7.5	12.6	26.9	30.4	13.8	4.7	0.9	0.1	0.2	0.0	0.0		
Average (Mean)		34.6 mph			Minimum 10.3 mph			Maximum 63.7 mph			Pace Range 30.4 - 40.4 mph			1534 vehicles (57.7%)		
Percentile Speeds (mph)		10% 24.9			50% 35.0			85% 41.3			90% 43.0					
Speeds Exceeded		25 mph 89.5% (2379)			35 mph 50.0% (1329)			45 mph 5.8% (154)			65 mph 0% (0)			75 mph 0% (0)		

24 Hour Speed																
Combined Channels																
mph	Total	0 - <15	15 - <20	20 - <25	25 - <30	30 - <35	35 - <40	40 - <45	45 - <50	50 - <55	55 - <60	60 - <65	65 - <70	70 - <200	Avg.	
3:00 PM	331	13	6	27	62	115	78	24	5	1	0	0	0	0	31.9	
4:00 PM	225	1	7	19	23	57	74	26	15	3	0	0	0	0	34.6	
5:00 PM	253	2	1	18	28	77	90	27	9	1	0	0	0	0	34.5	
6:00 PM	238	4	0	22	35	54	85	28	8	2	0	0	0	0	34.2	
7:00 PM	174	0	1	18	15	50	66	16	7	1	0	0	0	0	34.5	
8:00 PM	116	0	0	7	11	50	32	11	5	0	0	0	0	0	34.6	
9:00 PM	114	0	2	14	22	33	27	10	6	0	0	0	0	0	32.7	
10:00 PM	77	0	0	10	11	20	24	9	3	0	0	0	0	0	33.8	
11:00 PM	71	0	1	5	6	19	22	14	2	1	0	1	0	0	35.7	
4/20/2024																
12:00 AM	53	0	1	6	10	15	13	6	1	0	1	0	0	0	33.4	
1:00 AM	35	0	0	3	6	9	13	3	1	0	0	0	0	0	34.3	
2:00 AM	26	0	0	4	3	7	7	3	1	0	0	0	0	1	34.9	
3:00 AM	11	0	1	0	2	4	4	0	0	0	0	0	0	0	32.3	
4:00 AM	25	0	1	0	2	5	5	7	4	0	0	1	0	0	38.7	
5:00 AM	25	0	0	2	2	5	9	4	2	0	1	0	0	0	36.5	
6:00 AM	52	0	0	1	6	14	16	9	5	1	0	0	0	0	36.7	
7:00 AM	46	0	0	2	9	6	13	10	5	1	0	0	0	0	36.5	
8:00 AM	74	0	1	8	9	18	26	8	4	0	0	0	0	0	34.4	
9:00 AM	90	1	3	6	4	24	28	17	5	0	1	1	0	0	35.6	
10:00 AM	118	0	2	6	10	35	44	16	4	1	0	0	0	0	35.4	
11:00 AM	133	0	0	7	15	30	44	30	6	1	0	0	0	0	35.9	
12:00 PM	175	2	2	15	26	37	55	23	13	1	1	0	0	0	34.7	
1:00 PM	145	2	3	15	20	41	37	17	6	4	0	0	0	0	33.9	
2:00 PM	145	1	2	5	28	34	42	23	9	0	1	0	0	0	34.9	
Total	2752	26	34	220	365	759	854	341	126	18	5	3	0	1	34.4	
%		0.9	1.2	8.0	13.3	27.6	31.0	12.4	4.6	0.7	0.2	0.1	0.0	0.0		
Average (Mean) 34.4 mph Minimum 10.0 mph Maximum 79.4 mph Pace Range 30.1 - 40.1 mph 1621 vehicles (58.9%)																
Percentile Speeds (mph) 10% 24.9 15% 27.4 50% 34.8 85% 40.8 90% 42.6																
Speeds Exceeded 25 mph 89.8% (2471) 35 mph 48.8% (1343) 45 mph 5.6% (153) 55 mph 0.3% (9) 65 mph 0.0% (1) 75 mph 0.0% (1)																

Shell Rd
Greenbriar Ave
Suburban Pkwy

Site: 057SP24
4/20/2024
Saturday

24 Hour Speed

Combined Channels															
mph	Total	0 - ≤ 15	15 - ≤ 20	20 - ≤ 25	25 - ≤ 30	30 - ≤ 35	35 - ≤ 40	40 - ≤ 45	45 - ≤ 50	50 - ≤ 55	55 - ≤ 60	60 - ≤ 65	65 - ≤ 70	70 - ≤ 200	Avg.
3:00 PM	176	1	4	22	29	47	44	21	7	1	0	0	0	0	33.2
4:00 PM	151	2	2	9	25	29	55	23	5	1	0	0	0	0	34.7
5:00 PM	130	0	6	7	18	38	35	20	4	1	0	0	0	1	34.3
6:00 PM	134	1	1	10	12	38	46	14	10	1	0	0	1	0	35.3
7:00 PM	103	1	4	6	20	27	26	13	5	1	0	0	0	0	33.8
8:00 PM	102	4	3	8	17	31	21	17	1	0	0	0	0	0	32.4
9:00 PM	96	1	0	5	11	29	34	10	3	1	1	0	0	1	35.6
10:00 PM	86	0	3	5	12	30	21	10	3	2	0	0	0	0	34.1
11:00 PM	59	1	1	7	7	18	20	4	1	0	0	0	0	0	32.5
4/21/2024															
12:00 AM	33	0	0	2	5	7	8	9	2	0	0	0	0	0	36.0
1:00 AM	32	4	1	5	2	8	6	5	1	0	0	0	0	0	30.6
2:00 AM	21	0	0	2	3	6	3	4	2	1	0	0	0	0	35.9
3:00 AM	20	0	0	2	1	11	3	1	0	0	1	1	0	0	35.7
4:00 AM	19	0	0	4	2	7	1	4	0	1	0	0	0	0	33.0
5:00 AM	22	0	0	0	0	2	9	9	1	0	1	0	0	0	40.5
6:00 AM	33	0	0	2	6	9	11	4	1	0	0	0	0	0	34.8
7:00 AM	43	1	1	4	2	7	11	10	5	2	0	0	0	0	36.7
8:00 AM	62	0	2	5	8	15	19	9	2	1	1	0	0	0	35.1
9:00 AM	84	1	0	4	13	21	25	15	4	1	0	0	0	0	35.3
10:00 AM	100	2	2	11	10	24	28	18	4	1	0	0	0	0	34.3
11:00 AM	111	0	3	8	10	32	30	18	8	1	0	1	0	0	35.3
12:00 PM	155	3	0	12	25	40	47	17	9	2	0	0	0	0	34.1
1:00 PM	144	1	0	8	18	36	49	23	6	3	0	0	0	0	35.7
2:00 PM	135	0	1	7	12	30	45	26	12	2	0	0	0	0	36.7
Total	2051	23	34	155	268	542	597	304	96	23	4	2	1	2	34.7
%		1.1	1.7	7.6	13.1	26.4	29.1	14.8	4.7	1.1	0.2	0.1	0.0	0.1	

Average (Mean) 34.7 mph **Minimum** 10.1 mph **Maximum** 80.0 mph **Pace Range** 30.1 - 40.1 mph 1147 vehicles (55.9%)

Percentile Speeds 10% 15% 50% 85% 90%
(mph) 24.8 27.2 35.0 41.7 43.5

Speeds Exceeded 25 mph 35 mph 45 mph 55 mph 65 mph 75 mph
89.5% (1835) 49.9% (1024) 6.2% (127) 0.4% (9) 0.1% (3) 0.0% (1)

24 Hour Speed

mph	Combined Channels															Avg.
	Total	0 - 0 - 15	15 - 15 - 20	20 - 20 - 25	25 - 25 - 30	30 - 30 - 35	35 - 35 - 40	40 - 40 - 45	45 - 45 - 50	50 - 50 - 55	55 - 55 - 60	60 - 60 - 65	65 - 65 - 70	70 - 70 - 200		
3:00 PM	112	0	2	12	13	29	31	20	4	0	1	0	0	0	34.5	
4:00 PM	106	0	1	4	17	24	40	11	6	3	0	0	0	0	35.4	
5:00 PM	109	0	0	8	13	24	40	20	2	1	1	0	0	0	35.6	
6:00 PM	115	0	1	7	10	30	40	18	8	1	0	0	0	0	35.9	
7:00 PM	113	0	3	7	11	27	40	21	2	1	0	0	0	1	35.3	
8:00 PM	82	0	1	11	22	13	22	9	3	0	1	0	0	0	32.9	
9:00 PM	72	0	0	8	8	21	18	12	5	0	0	0	0	0	34.8	
10:00 PM	46	0	2	1	6	13	18	4	2	0	0	0	0	0	34.3	
11:00 PM	31	0	1	2	4	9	8	6	1	0	0	0	0	0	34.5	
4/22/2024																
12:00 AM	18	0	0	3	0	5	6	3	1	0	0	0	0	0	35.1	
1:00 AM	16	0	1	1	2	8	2	1	1	0	0	0	0	0	33.5	
2:00 AM	11	0	0	0	0	6	0	5	0	0	0	0	0	0	36.8	
3:00 AM	15	0	0	3	2	4	3	1	1	1	0	0	0	0	33.5	
4:00 AM	29	0	0	3	3	3	10	6	2	2	0	0	0	0	37.7	
5:00 AM	62	0	0	2	4	12	12	20	8	3	1	0	0	0	39.2	
6:00 AM	99	2	5	7	11	22	24	17	8	3	0	0	0	0	35.0	
7:00 AM	101	0	2	5	7	20	39	20	7	1	0	0	0	0	36.4	
8:00 AM	124	0	1	7	19	25	37	25	7	3	0	0	0	0	35.8	
9:00 AM	90	1	2	5	15	24	23	13	7	0	0	0	0	0	34.6	
10:00 AM	107	0	2	11	17	41	26	6	3	1	0	0	0	0	32.8	
11:00 AM	124	0	2	11	15	32	42	18	3	1	0	0	0	0	34.4	
12:00 PM	129	1	2	9	19	27	40	25	5	0	1	0	0	0	34.8	
1:00 PM	142	1	2	16	20	34	42	17	6	3	1	0	0	0	34.4	
2:00 PM	177	0	4	6	24	39	59	26	10	6	2	1	0	0	36.4	
Total	2030	5	34	149	262	492	622	324	102	30	8	1	0	1	35.1	
%		0.2	1.7	7.3	12.9	24.2	30.6	16.0	5.0	1.5	0.4	0.0	0.0	0.0		

Average (Mean) 35.1 mph
Minimum 11.7 mph
Maximum 74.1 mph
Pace Range 31.3 - 41.3 mph
1153 vehicles (56.8%)

Percentile Speeds				Speeds Exceeded			
(mph)	10%	15%	50%	85%	90%	65 mph	75 mph
	25.4	27.6	35.5	41.8	43.6	0.0% (1)	0% (0)
	25 mph	35 mph		45 mph			
	90.6% (1839)	53.4% (1085)		6.9% (140)	0.5% (10)		

24 Hour Speed

Combined Channels

mph	Total	0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200	Avg.
3:00 PM	210	2	4	8	29	49	70	31	14	3	0	0	0	0	35.5
4:00 PM	216	3	2	8	27	45	79	39	7	6	0	0	0	0	35.8
5:00 PM	204	1	1	12	29	53	58	40	7	2	1	0	0	0	35.1
6:00 PM	165	0	1	16	22	43	55	18	8	1	0	1	0	0	34.5
7:00 PM	116	1	1	9	24	30	26	16	8	1	0	0	0	0	34.0
8:00 PM	97	0	2	6	14	26	35	12	2	0	0	0	0	0	34.1
9:00 PM	62	0	2	2	11	21	15	7	4	0	0	0	0	0	34.5
10:00 PM	54	1	2	5	10	8	17	6	3	1	1	0	0	0	34.0
11:00 PM	51	0	0	1	12	14	10	7	5	1	0	1	0	0	35.8
4/23/2024															
12:00 AM	29	0	0	3	4	7	9	4	2	0	0	0	0	0	34.7
1:00 AM	17	0	0	1	3	5	4	2	1	0	0	1	0	0	36.6
2:00 AM	14	1	1	0	1	1	6	2	2	0	0	0	0	0	35.4
3:00 AM	7	0	0	0	1	1	3	2	0	0	0	0	0	0	36.6
4:00 AM	35	1	0	2	4	7	7	8	5	0	1	0	0	0	36.9
5:00 AM	63	0	0	4	4	6	17	17	11	4	0	0	0	0	39.3
6:00 AM	81	1	4	2	10	21	24	14	0	3	2	0	0	0	35.5
7:00 AM	93	0	1	3	5	16	33	24	9	0	2	0	0	0	38.1
8:00 AM	118	0	1	6	13	29	40	22	7	0	0	0	0	0	35.8
9:00 AM	134	3	1	5	8	41	36	32	4	3	0	1	0	0	36.2
Total	1766	14	23	93	231	423	544	303	99	25	7	4	0	0	35.5
%		0.8	1.3	5.3	13.1	24.0	30.8	17.2	5.6	1.4	0.4	0.2	0.0	0.0	

Average (Mean)

35.5 mph

Minimum

10.3 mph

Maximum

64.8 mph

Pace Range

31.6 - 41.6 mph

1012 vehicles (57.3%)

Percentile Speeds

(mph)

10%

26.3

15%

28.0

50%

35.8

85%

42.3

90%

43.8

Speeds Exceeded

25 mph

92.6% (1635)

35 mph

55.3% (977)

45 mph

7.4% (131)

55 mph

0.6% (11)

65 mph

0% (0)

75 mph

0% (0)

Shell Rd
Vaughan Ave
Greenbriar Ave

Site: D58SP24
4/16/2024
Tuesday

24 Hour Speed

mph	Combined Channels													Avg.
	Total	0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200
3:00 PM	262	5	3	15	54	61	63	47	11	1	1	0	0	34.3
4:00 PM	326	9	7	20	52	93	89	46	6	2	2	0	0	33.4
5:00 PM	311	4	2	18	42	95	101	41	6	2	0	0	0	34.3
6:00 PM	273	5	2	20	48	85	62	35	14	1	1	0	0	33.6
7:00 PM	198	2	1	20	26	53	60	27	8	0	1	0	0	34.2
8:00 PM	156	2	0	7	27	44	57	17	2	0	0	0	0	34.0
9:00 PM	144	3	0	17	32	40	36	12	3	1	0	0	0	32.3
10:00 PM	81	0	0	7	17	25	20	9	1	2	0	0	0	33.4
11:00 PM	46	0	0	1	5	13	15	4	4	4	0	0	0	37.4
4/17/2024														
12:00 AM	31	0	0	2	9	10	6	1	3	0	0	0	0	33.1
1:00 AM	33	0	2	3	8	4	8	8	0	0	0	0	0	33.1
2:00 AM	11	0	0	0	0	3	4	4	0	0	0	0	0	38.1
3:00 AM	14	0	0	0	2	7	0	4	1	0	0	0	0	35.1
4:00 AM	49	1	0	1	7	7	16	14	2	0	0	0	0	37.1
5:00 AM	90	0	0	0	17	16	28	20	8	1	0	0	0	36.9
6:00 AM	140	1	3	14	28	38	30	21	3	1	0	0	0	33.4
7:00 AM	202	0	3	12	47	64	36	29	7	3	0	0	0	34.0
8:00 AM	221	6	2	15	52	64	55	21	5	1	0	0	0	32.4
9:00 AM	176	0	1	10	33	47	58	23	2	2	0	0	0	34.1
10:00 AM	159	4	1	6	45	44	36	20	3	0	0	0	0	32.7
11:00 AM	154	1	0	13	32	50	29	24	5	0	0	0	0	33.3
12:00 PM	172	6	3	15	34	43	47	17	6	0	1	0	0	32.8
1:00 PM	182	2	5	11	33	51	61	14	4	1	0	0	0	33.3
2:00 PM	224	3	3	8	35	59	74	30	8	0	0	1	1	35.0
Total	3655	54	38	235	685	1016	991	488	112	22	6	1	2	33.8
%		1.5	1.0	6.4	18.7	27.8	27.1	13.4	3.1	0.6	0.2	0.0	0.1	0.1

Average (Mean) 33.8 mph Minimum 10.4 mph Maximum 76.9 mph Pace Range 28.0 - 38.0 mph 2029 vehicles (55.5%)

Percentile Speeds		10%	15%	50%	85%	90%
(mph)		25.4	27.1	34.2	40.6	41.8
Speeds Exceeded		25 mph	35 mph	45 mph	55 mph	65 mph
		91.0% (3326)	44.4% (1622)	4.0% (147)	0.4% (14)	0.2% (7)
						75 mph
						0.1% (2)

Shell Rd
Vaughan Ave
Greenbriar Ave

Site: 058SP24
4/17/2024
Wednesday

24 Hour Speed

Combined Channels															
mph	Total	0 - 0 - 15	15 - 15 - 20	20 - 20 - 25	25 - 25 - 30	30 - 30 - 35	35 - 35 - 40	40 - 40 - 45	45 - 45 - 50	50 - 50 - 55	55 - 55 - 60	60 - 60 - 65	65 - 65 - 70	70 - 70 - 200	Avg.
3:00 PM	277	5	6	11	38	69	89	50	1	5	3	0	0	0	34.7
4:00 PM	308	9	2	19	58	83	91	33	10	1	0	2	0	0	33.5
5:00 PM	341	8	7	22	66	90	106	25	14	1	1	1	0	0	33.2
6:00 PM	240	5	1	14	39	72	68	26	12	0	2	0	0	1	34.3
7:00 PM	200	5	2	17	39	68	46	18	4	1	0	0	0	0	32.6
8:00 PM	175	1	1	9	38	62	45	16	2	1	0	0	0	0	33.1
9:00 PM	108	0	1	6	12	35	33	13	6	1	1	0	0	0	35.3
10:00 PM	72	1	0	0	17	19	24	9	2	0	0	0	0	0	34.3
11:00 PM	57	0	0	3	8	15	20	7	0	2	0	2	0	0	35.7
4/18/2024															
12:00 AM	47	0	2	3	8	14	16	3	0	1	0	0	0	0	33.3
1:00 AM	29	0	1	1	4	14	8	1	0	0	0	0	0	0	32.5
2:00 AM	30	0	0	2	5	11	7	2	1	1	0	0	0	1	35.8
3:00 AM	20	0	0	0	0	14	5	1	0	0	0	0	0	0	34.6
4:00 AM	40	0	1	1	11	5	8	8	3	0	1	1	1	0	36.5
5:00 AM	88	0	1	1	7	22	26	20	9	1	0	1	0	0	37.7
6:00 AM	131	3	4	9	26	27	34	20	7	1	0	0	0	0	33.8
7:00 AM	126	1	2	4	25	23	39	19	9	2	1	0	0	1	36.0
8:00 AM	138	0	1	11	23	30	36	22	11	4	0	0	0	0	35.3
9:00 AM	157	1	1	3	17	45	50	28	9	3	0	0	0	0	36.1
10:00 AM	150	2	0	3	24	40	45	31	5	0	0	0	0	0	35.2
11:00 AM	174	3	1	7	34	63	41	18	7	0	0	0	0	0	33.7
12:00 PM	194	3	2	15	32	51	49	27	12	3	0	0	0	0	34.1
1:00 PM	181	2	1	6	28	59	55	25	5	0	0	0	0	0	34.3
2:00 PM	239	6	2	14	17	65	82	34	15	3	0	0	1	0	35.5
Total	3522	55	39	181	576	996	1023	456	144	31	9	7	2	3	34.4
%		1.6	1.1	5.1	16.4	28.3	29.0	12.9	4.1	0.9	0.3	0.2	0.1	0.1	

Average (Mean) 34.4 mph Minimum 10.2 mph Maximum 81.1 mph Pace Range 29.8 - 39.8 mph 2044 vehicles (58.0%)

Percentile Speeds (mph) 10% 25.9 15% 27.7 50% 34.6 85% 40.9 90% 42.6

Speeds Exceeded 25 mph 92.1% (3243) 35 mph 47.1% (1658) 45 mph 5.4% (191) 55 mph 0.6% (21) 65 mph 0.1% (5) 75 mph 0.0% (1)

24 Hour Speed																
Combined Channels																
mph	Total	0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200	Avg.	
3:00 PM	280	5	5	16	38	66	94	35	16	3	0	2	0	0	34.8	
4:00 PM	317	8	1	14	27	96	100	54	12	3	2	0	0	0	35.2	
5:00 PM	311	5	3	15	46	75	114	44	9	0	0	0	0	0	34.4	
6:00 PM	301	1	7	29	46	99	81	31	6	0	0	0	0	1	33.1	
7:00 PM	214	3	2	16	45	65	65	3	3	0	0	1	0	0	32.7	
8:00 PM	184	2	2	10	42	67	45	13	0	2	0	1	0	0	32.7	
9:00 PM	116	1	1	9	28	35	31	9	2	0	0	0	0	0	32.5	
10:00 PM	104	0	1	7	20	31	31	7	5	2	0	0	0	0	33.7	
11:00 PM	75	3	0	3	15	20	22	7	3	1	0	1	0	0	34.1	
4/19/2024																
12:00 AM	38	0	0	1	6	11	12	6	2	0	0	0	0	0	35.6	
1:00 AM	36	0	0	0	8	9	12	5	2	0	0	0	0	0	35.2	
2:00 AM	25	0	0	3	8	6	4	3	1	0	0	0	0	0	32.7	
3:00 AM	22	0	2	3	0	5	7	4	1	0	0	0	0	0	34.1	
4:00 AM	46	0	0	2	6	13	9	7	6	2	0	1	0	0	36.9	
5:00 AM	76	0	1	2	13	12	21	18	8	1	0	0	0	0	37.1	
6:00 AM	143	2	2	12	25	43	46	10	2	1	0	0	0	0	32.9	
7:00 AM	142	1	4	10	24	38	33	25	6	1	0	0	0	0	34.1	
8:00 AM	144	0	4	9	30	39	38	14	10	0	0	0	0	0	33.7	
9:00 AM	148	0	2	9	27	38	46	19	5	1	0	0	0	0	34.4	
10:00 AM	164	2	1	17	29	47	52	7	7	1	0	1	0	0	33.4	
11:00 AM	156	3	0	14	30	37	48	18	4	2	0	0	0	0	33.6	
12:00 PM	225	4	0	23	50	76	39	30	2	0	1	0	0	0	32.6	
1:00 PM	202	1	1	11	39	65	66	14	4	1	0	0	0	0	33.4	
2:00 PM	261	6	3	11	40	66	85	40	8	1	0	0	1	0	34.4	
Total	3730	47	42	246	642	1059	1101	434	124	22	4	7	1	1	33.9	
%		1.3	1.1	6.6	17.2	28.4	29.5	11.6	3.3	0.6	0.1	0.2	0.0	0.0		
Average (Mean) 33.9 mph																
Minimum 10.0 mph																
Maximum 74.6 mph																
Pace Range 30.1 - 40.1 mph 2179 vehicles (58.4%)																
Percentile Speeds																
(mph)																
10% 25.3																
50% 34.3																
90% 41.6																
Speeds Exceeded																
25 mph 90.9% (3391)																
35 mph 45.2% (1687)																
45 mph 4.1% (154)																
55 mph 0.3% (13)																
65 mph 0.1% (2)																
75 mph 0% (0)																

Shell Rd
Vaughan Ave
Greenbriar Ave

Site: 058SP24
4/19/2024
Friday

24 Hour Speed

mph	Combined Channels													Avg.
	Total	0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200
3:00 PM	543	46	19	81	135	148	77	29	5	1	1	0	0	29.0
4:00 PM	318	5	3	18	39	98	109	34	11	1	0	0	0	34.2
5:00 PM	344	5	5	16	65	112	104	28	8	0	1	0	0	33.3
6:00 PM	335	5	4	32	50	90	109	36	6	1	1	0	0	33.5
7:00 PM	253	3	3	15	33	90	80	20	7	0	1	0	0	33.8
8:00 PM	163	5	1	8	33	57	37	16	6	0	0	0	0	33.0
9:00 PM	141	0	6	14	21	50	37	8	4	1	0	0	0	32.6
10:00 PM	120	1	4	13	18	35	37	6	4	1	0	0	0	32.9
11:00 PM	97	0	2	3	17	26	31	10	5	1	1	0	0	34.8
4/20/2024														
12:00 AM	60	0	1	8	9	22	13	6	0	0	1	0	0	32.6
1:00 AM	53	0	0	3	19	14	14	3	0	0	0	0	0	32.1
2:00 AM	35	0	0	1	5	16	10	1	0	0	0	1	0	35.5
3:00 AM	18	0	0	0	5	8	5	0	0	0	0	0	0	32.7
4:00 AM	36	0	0	4	3	9	6	8	5	0	1	0	0	36.7
5:00 AM	34	0	0	3	1	11	8	8	2	0	1	0	0	36.3
6:00 AM	71	0	1	5	11	15	25	9	2	1	1	0	1	35.6
7:00 AM	78	0	0	9	25	10	20	11	2	1	0	0	0	33.0
8:00 AM	103	0	1	10	24	22	29	12	3	2	0	0	0	33.6
9:00 AM	130	0	2	4	21	31	52	16	2	0	1	0	0	34.9
10:00 AM	153	2	1	10	24	45	46	19	5	1	0	0	0	33.9
11:00 AM	195	1	4	16	38	51	61	26	7	1	0	0	0	34.4
12:00 PM	212	4	3	12	30	71	58	25	8	1	0	0	0	33.7
1:00 PM	199	5	0	7	48	58	48	23	5	4	1	0	0	33.6
2:00 PM	213	4	2	14	38	61	53	26	11	2	2	0	0	34.0
Total	3904	86	62	296	712	1150	1069	380	108	19	12	8	0	33.1
%		2.2	1.6	7.6	18.2	29.5	27.4	9.7	2.8	0.5	0.3	0.2	0.0	0.1

Average (Mean) 33.1 mph Minimum 10.0 mph Maximum 83.0 mph Pace Range 29.0 - 39.0 mph 2274 vehicles (58.2%)

Percentile Speeds		(mph)	
10%	24.5	50%	33.7
15%	26.1	90%	41.2
Speeds Exceeded			
25 mph	88.3% (3448)	35 mph	40.7% (1588)
45 mph	3.7% (144)	55 mph	0.5% (21)
65 mph	0.1% (2)	75 mph	0.1% (2)

24 Hour Speed

Combined Channels														
mph	Total	0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200
3:00 PM	235	4	0	19	42	61	74	30	4	0	0	1	0	0
4:00 PM	204	2	1	15	35	56	65	25	4	1	0	0	0	0
5:00 PM	177	2	2	9	29	43	60	25	5	1	0	0	0	1
6:00 PM	186	1	1	17	37	51	57	14	7	0	0	1	0	0
7:00 PM	146	3	4	12	33	38	32	14	8	2	0	0	0	0
8:00 PM	139	0	0	10	29	52	28	19	1	0	0	0	0	0
9:00 PM	152	1	2	9	31	51	38	14	5	0	0	0	0	1
10:00 PM	128	3	4	7	21	46	31	12	2	2	0	0	0	0
11:00 PM	76	0	0	7	16	26	23	3	1	0	0	0	0	0
4/21/2024														
12:00 AM	52	0	1	4	9	16	10	11	1	0	0	0	0	0
1:00 AM	50	0	0	3	14	13	12	7	0	0	0	0	0	1
2:00 AM	27	0	0	0	3	11	4	7	1	1	0	0	0	0
3:00 AM	26	0	0	3	3	10	5	1	1	1	1	1	0	0
4:00 AM	24	0	0	0	6	9	4	4	1	0	0	0	0	0
5:00 AM	36	0	0	4	5	3	11	11	1	1	0	0	0	0
6:00 AM	42	1	0	2	4	12	17	4	2	0	0	0	0	0
7:00 AM	67	1	0	2	13	16	15	12	7	1	0	0	0	0
8:00 AM	87	0	1	5	14	25	31	9	1	0	0	1	0	0
9:00 AM	106	2	2	11	9	24	38	14	3	2	1	0	0	0
10:00 AM	141	5	1	7	27	40	37	18	6	0	0	0	0	0
11:00 AM	144	1	0	7	20	47	40	23	3	1	1	1	0	0
12:00 PM	191	2	2	8	38	54	49	31	5	1	1	0	0	0
1:00 PM	193	1	2	12	33	47	72	19	6	1	0	0	0	0
2:00 PM	183	1	2	6	16	45	76	24	9	3	0	0	1	0
Total	2812	30	25	179	487	796	829	351	84	18	4	5	1	3
%		1.1	0.9	6.4	17.3	28.3	29.5	12.5	3.0	0.6	0.1	0.2	0.0	0.1

Average (Mean)					34.1 mph					Minimum					10.5 mph					Maximum					84.4 mph					Pace Range					29.0 - 39.0 mph					1642 vehicles (58.4%)														
Percentile Speeds					(mph)					10%					15%					50%					85%					90%																								
										25.7					27.4					34.4					40.5					41.9																								
Speeds Exceeded					25 mph					91.6% (2577)					45.9% (1292)					35 mph					45 mph					55 mph					65 mph					75 mph					0.1% (4)					0.0% (1)				

24 Hour Speed																
Combined Channels																
mph	Total	0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200	Avg.	
3:00 PM	131	0	1	8	14	30	52	19	5	1	1	0	0	0	35.4	
4:00 PM	174	2	1	11	42	57	37	16	5	3	0	0	0	0	33.1	
5:00 PM	163	0	0	10	33	41	51	22	4	1	1	0	0	0	34.5	
6:00 PM	162	0	0	8	22	56	51	13	9	2	1	0	0	0	34.9	
7:00 PM	167	1	1	13	28	42	60	15	7	0	0	0	0	0	34.1	
8:00 PM	107	0	1	14	27	22	28	14	1	0	0	0	0	0	32.6	
9:00 PM	96	0	0	5	21	27	26	14	3	0	0	0	0	0	34.1	
10:00 PM	76	2	0	5	18	23	21	4	3	0	0	0	0	0	32.9	
11:00 PM	54	1	0	1	8	21	15	7	1	0	0	0	0	0	34.0	
4/22/2024																
12:00 AM	22	0	0	0	2	12	3	3	2	0	0	0	0	0	35.8	
1:00 AM	24	0	1	5	4	5	7	1	1	0	0	0	0	0	31.7	
2:00 AM	19	0	0	1	3	9	3	2	1	0	0	0	0	0	34.0	
3:00 AM	25	0	0	5	4	7	5	1	2	1	0	0	0	0	32.9	
4:00 AM	32	0	0	1	4	7	10	6	4	0	0	0	0	0	37.0	
5:00 AM	85	0	1	3	11	17	17	27	7	2	0	0	0	0	37.0	
6:00 AM	127	0	2	8	20	30	35	21	9	2	0	0	0	0	35.2	
7:00 AM	132	0	2	7	12	37	46	21	6	1	0	0	0	0	35.5	
8:00 AM	150	1	1	14	18	35	53	18	7	2	0	1	0	0	34.8	
9:00 AM	134	3	3	16	20	33	39	14	5	0	0	0	0	1	33.1	
10:00 AM	153	1	2	4	38	63	38	4	2	1	0	0	0	0	32.5	
11:00 AM	164	2	3	7	33	51	43	20	4	1	0	0	0	0	33.5	
12:00 PM	185	1	3	13	33	37	65	24	8	0	1	0	0	0	34.5	
1:00 PM	195	1	3	15	26	54	58	28	7	3	0	0	0	0	34.5	
2:00 PM	244	4	2	9	36	68	76	26	10	7	5	1	0	0	35.3	
Total	2821	19	27	183	477	784	839	340	113	27	9	2	0	1	34.3	
%		0.7	1.0	6.5	16.9	27.8	29.7	12.1	4.0	1.0	0.3	0.1	0.0	0.0		
Average (Mean)		34.3 mph			Minimum 10.1 mph			Maximum 79.2 mph			Pace Range 29.8 - 39.8 mph			1635 vehicles (58.0%)		
Percentile Speeds		(mph)			10%			50%			90%					
					25.8			27.4			34.6			42.6		
Speeds Exceeded		25 mph			35 mph			45 mph			55 mph			65 mph		
		91.7% (2588)			46.9% (1324)			5.4% (151)			0.4% (12)			0.0% (1)		
											75 mph			0.0% (1)		

Shell Rd
Vaughan Ave
Greenbriar Ave

Site: 058SP24
4/22/2024
Monday

24 Hour Speed

mph	Combined Channels													Avg.
	Total	0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200
3:00 PM	292	6	5	15	43	78	95	38	8	2	0	1	0	1
4:00 PM	325	4	2	11	38	94	119	44	7	4	0	1	0	1
5:00 PM	317	5	3	14	52	92	90	45	13	3	0	0	0	0
6:00 PM	219	2	2	17	43	60	63	27	3	2	0	0	0	0
7:00 PM	172	2	3	8	34	61	40	17	3	2	2	0	0	0
8:00 PM	171	1	1	16	34	58	44	14	3	0	0	0	0	0
9:00 PM	97	0	3	8	23	28	22	10	3	0	0	0	0	0
10:00 PM	78	1	3	4	17	16	24	8	4	0	1	0	0	0
11:00 PM	63	0	1	4	8	25	10	8	5	1	0	1	0	0
4/23/2024														
12:00 AM	50	0	0	4	14	13	14	2	2	1	0	0	0	0
1:00 AM	26	0	0	2	4	6	8	3	1	0	1	0	0	0
2:00 AM	15	1	0	1	1	2	9	1	0	0	0	0	0	0
3:00 AM	11	0	0	2	2	2	4	1	0	0	0	0	0	0
4:00 AM	44	0	0	2	4	10	12	8	5	0	1	0	0	1
5:00 AM	93	0	0	3	15	13	27	19	12	3	0	0	0	1
6:00 AM	122	1	2	8	13	38	36	18	2	2	2	0	0	1
7:00 AM	137	0	1	3	16	32	48	22	11	3	1	0	0	0
8:00 AM	173	0	1	4	33	46	54	26	9	0	0	0	0	0
9:00 AM	176	1	1	5	26	44	62	28	7	2	0	0	0	0
Total	2581	24	28	131	420	718	781	339	98	25	8	5	0	4
%		0.9	1.1	5.1	16.3	27.8	30.3	13.1	3.8	1.0	0.3	0.2	0.0	0.2

Average (Mean) 34.6 mph Minimum 10.1 mph Maximum 78.5 mph Pace Range 29.9 - 39.9 mph 1509 vehicles (58.5%)

Percentile Speeds (mph) 10% 15% 50% 85% 90%
26.1 27.8 34.8 41.0 42.5

Speeds Exceeded 25 mph 92.7% (2393) 35 mph 48.5% (1253) 45 mph 5.4% (139) 55 mph 0.7% (17) 65 mph 0.2% (4) 75 mph 0.1% (3)

Appendix B

Greenbrier Avenue Traffic Counts

Greenbriar Ave :
Sheff Rd :
New St :

Site: 056SP24
4/16/2024
Tuesday

24 Hour Speed

mph	Combined Channels													Avg.
	Total	0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200
4:00 PM	134	2	8	34	66	19	4	1	0	0	0	0	0	26.4
5:00 PM	145	5	9	50	60	20	1	0	0	0	0	0	0	25.4
6:00 PM	109	5	12	36	44	11	1	0	0	0	0	0	0	24.8
7:00 PM	85	2	8	43	22	9	1	0	0	0	0	0	0	24.6
8:00 PM	64	0	6	16	29	12	1	0	0	0	0	0	0	26.4
9:00 PM	55	2	1	25	19	7	0	0	1	0	0	0	0	25.3
10:00 PM	41	2	8	8	19	4	0	0	0	0	0	0	0	24.1
11:00 PM	25	0	2	9	12	2	0	0	0	0	0	0	0	25.4
4/17/2024														
12:00 AM	8	0	1	1	5	1	0	0	0	0	0	0	0	26.1
1:00 AM	7	1	1	1	3	1	0	0	0	0	0	0	0	24.0
2:00 AM	5	0	2	0	3	0	0	0	0	0	0	0	0	24.9
3:00 AM	6	0	0	2	3	0	1	0	0	0	0	0	0	27.9
4:00 AM	14	0	0	4	7	2	1	0	0	0	0	0	0	28.0
5:00 AM	32	2	0	5	15	10	0	0	0	0	0	0	0	27.3
6:00 AM	45	0	3	11	21	9	1	0	0	0	0	0	0	26.5
7:00 AM	132	1	8	33	57	30	2	1	0	0	0	0	0	26.9
8:00 AM	117	2	2	38	61	12	2	0	0	0	0	0	0	26.3
9:00 AM	81	3	11	26	33	8	0	0	0	0	0	0	0	24.5
10:00 AM	51	2	8	19	18	2	1	1	0	0	0	0	0	24.1
11:00 AM	51	1	8	17	20	4	1	0	0	0	0	0	0	24.5
12:00 PM	75	5	13	21	31	4	1	0	0	0	0	0	0	23.8
1:00 PM	84	3	7	31	34	9	0	0	0	0	0	0	0	24.8
2:00 PM	78	2	8	28	26	13	0	1	0	0	0	0	0	25.3
3:00 PM	80	0	6	24	38	11	1	0	0	0	0	0	0	25.7
Total	1524	40	132	482	646	200	19	4	1	0	0	0	0	25.5
%		2.6	8.7	31.6	42.4	13.1	1.2	0.3	0.1	0.0	0.0	0.0	0.0	

Average (Mean) 25.5 mph Minimum 10.1 mph Maximum 47.9 mph Pace Range 20.7 - 30.7 mph 1139 vehicles (74.7%)

Percentile Speeds
(mph) 10% 19.6 15% 20.8 50% 25.7 85% 29.9 90% 31.0

Speeds Exceeded 25 mph 56.6% (862) 35 mph 1.6% (24) 45 mph 0.1% (1) 55 mph 0% (0) 65 mph 0% (0) 75 mph 0% (0)

Greenbriar Ave
Shell Rd
New St

Site: 056SP24
4/17/2024
Wednesday

24 Hour Speed

mph	Combined Channels														
	Total	0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200	Avg.
4:00 PM	138	2	17	53	52	11	3	0	0	0	0	0	0	0	24.6
5:00 PM	129	5	15	56	37	14	2	0	0	0	0	0	0	0	24.3
6:00 PM	102	3	14	33	48	4	0	0	0	0	0	0	0	0	24.1
7:00 PM	84	3	8	29	30	12	2	0	0	0	0	0	0	0	25.1
8:00 PM	77	1	7	29	32	7	1	0	0	0	0	0	0	0	24.9
9:00 PM	42	1	4	16	16	3	2	0	0	0	0	0	0	0	25.6
10:00 PM	36	0	3	10	17	6	0	0	0	0	0	0	0	0	26.0
11:00 PM	16	0	1	7	7	1	0	0	0	0	0	0	0	0	24.3
4/18/2024															
12:00 AM	11	1	1	1	4	0	2	1	0	1	0	0	0	0	30.3
1:00 AM	8	1	0	3	3	1	0	0	0	0	0	0	0	0	24.4
2:00 AM	5	0	0	1	3	1	0	0	0	0	0	0	0	0	25.7
3:00 AM	3	0	0	2	0	0	1	0	0	0	0	0	0	0	28.1
4:00 AM	13	1	1	1	6	4	0	0	0	0	0	0	0	0	26.5
5:00 AM	31	1	2	5	12	9	2	0	0	0	0	0	0	0	27.5
6:00 AM	47	0	8	11	23	4	1	0	0	0	0	0	0	0	25.5
7:00 AM	59	1	5	19	25	9	0	0	0	0	0	0	0	0	25.5
8:00 AM	75	0	10	17	33	13	2	0	0	0	0	0	0	0	26.2
9:00 AM	62	2	2	17	26	13	1	0	1	0	0	0	0	0	27.0
10:00 AM	58	5	6	20	20	7	0	0	0	0	0	0	0	0	24.1
11:00 AM	80	1	8	21	37	11	2	0	0	0	0	0	0	0	25.8
12:00 PM	82	0	8	24	38	11	1	0	0	0	0	0	0	0	25.9
1:00 PM	82	1	2	24	41	12	2	0	0	0	0	0	0	0	26.3
2:00 PM	104	1	8	31	49	14	1	0	0	0	0	0	0	0	25.7
3:00 PM	90	1	10	29	36	14	0	0	0	0	0	0	0	0	25.6
Total	1434	31	140	459	595	181	25	1	1	1	0	0	0	0	25.4
%		2.2	9.8	32.0	41.5	12.6	1.7	0.1	0.1	0.1	0.0	0.0	0.0	0.0	

Average (Mean) 25.4 mph Minimum 10.2 mph Maximum 52.7 mph Pace Range 21.3 - 31.3 mph 1086 vehicles (75.7%)

Percentile Speeds
(mph)

10%	15%	50%	90%
19.4	20.7	25.6	30.9

Speeds Exceeded

25 mph	35 mph	45 mph	55 mph	65 mph	75 mph
55.2% (792)	2.0% (28)	0.1% (2)	0% (0)	0% (0)	0% (0)

Greenbriar Ave
Shell Rd
New St

Site: 056SP24
4/18/2024
Thursday

24 Hour Speed

mph	Combined Channels															Avg.
	Total	0 - 0 - 15	15 - 15 - 20	20 - 20 - 25	25 - 25 - 30	30 - 30 - 35	35 - 35 - 40	40 - 40 - 45	45 - 45 - 50	50 - 50 - 55	55 - 55 - 60	60 - 60 - 65	65 - 65 - 70	70 - 70 - 200		
4:00 PM	127	1	13	43	53	14	3	0	0	0	0	0	0	0	25.4	
5:00 PM	123	0	6	46	49	19	3	0	0	0	0	0	0	0	26.1	
6:00 PM	121	0	7	54	50	10	0	0	0	0	0	0	0	0	25.3	
7:00 PM	90	1	11	31	35	9	3	0	0	0	0	0	0	0	25.1	
8:00 PM	68	0	3	30	26	9	0	0	0	0	0	0	0	0	25.6	
9:00 PM	53	0	2	21	21	9	0	0	0	0	0	0	0	0	26.0	
10:00 PM	40	0	6	15	10	8	1	0	0	0	0	0	0	0	25.0	
11:00 PM	34	0	5	10	13	5	1	0	0	0	0	0	0	0	26.0	
4/19/2024																
12:00 AM	10	1	0	2	6	1	0	0	0	0	0	0	0	0	24.8	
1:00 AM	8	0	1	3	3	1	0	0	0	0	0	0	0	0	24.4	
2:00 AM	9	0	3	1	4	0	0	1	0	0	0	0	0	0	25.9	
3:00 AM	5	0	2	1	1	1	0	0	0	0	0	0	0	0	23.0	
4:00 AM	15	0	0	3	10	1	1	0	0	0	0	0	0	0	27.1	
5:00 AM	28	2	0	6	13	6	1	0	0	0	0	0	0	0	26.5	
6:00 AM	37	1	1	10	19	6	0	0	0	0	0	0	0	0	26.1	
7:00 AM	69	1	10	22	32	4	0	0	0	0	0	0	0	0	24.7	
8:00 AM	81	2	7	17	40	15	0	0	0	0	0	0	0	0	25.7	
9:00 AM	66	5	9	24	22	5	1	0	0	0	0	0	0	0	23.5	
10:00 AM	58	2	5	28	19	4	0	0	0	0	0	0	0	0	24.1	
11:00 AM	53	3	5	18	21	5	1	0	0	0	0	0	0	0	24.6	
12:00 PM	86	0	16	43	20	6	1	0	0	0	0	0	0	0	23.9	
1:00 PM	77	0	7	29	30	10	1	0	0	0	0	0	0	0	25.4	
2:00 PM	84	4	6	22	42	10	0	0	0	0	0	0	0	0	25.4	
3:00 PM	145	2	9	49	66	15	3	1	0	0	0	0	0	0	25.7	
Total	1487	25	134	528	605	173	20	2	0	0	0	0	0	0	25.3	
%		1.7	9.0	35.5	40.7	11.6	1.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0		

Average (Mean) 25.3 mph Minimum 10.2 mph Maximum 43.5 mph Pace Range 19.9 - 29.9 mph 1144 vehicles (76.9%)

Percentile Speeds
(mph)

10%	15%	50%	85%	90%
19.9	20.9	25.3	29.6	30.8

Speeds Exceeded

25 mph	35 mph	45 mph	55 mph	65 mph	75 mph
53.5% (795)	1.5% (22)	0% (0)	0% (0)	0% (0)	0% (0)

Greenbriar Ave :
Shell Rd :
New St :

Site: 056SP24
4/19/2024
Friday

24 Hour Speed

mph	Combined Channels													Avg.
	Total	0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200
4:00 PM	126	3	13	45	51	13	1	0	0	0	0	0	0	24.9
5:00 PM	134	2	21	51	46	13	1	0	0	0	0	0	0	24.2
6:00 PM	127	3	20	46	49	8	1	0	0	0	0	0	0	24.3
7:00 PM	81	1	8	28	32	11	0	1	0	0	0	0	0	25.2
8:00 PM	59	1	3	15	30	10	0	0	0	0	0	0	0	26.2
9:00 PM	53	0	3	21	23	3	1	2	0	0	0	0	0	25.9
10:00 PM	43	0	3	14	15	10	0	1	0	0	0	0	0	26.6
11:00 PM	35	1	1	11	15	6	1	0	0	0	0	0	0	26.7
4/20/2024														
12:00 AM	23	1	2	8	9	2	0	1	0	0	0	0	0	25.5
1:00 AM	15	1	0	3	8	3	0	0	0	0	0	0	0	26.0
2:00 AM	17	0	1	5	10	1	0	0	0	0	0	0	0	25.9
3:00 AM	7	0	1	2	2	2	0	0	0	0	0	0	0	25.5
4:00 AM	16	0	4	4	5	2	1	0	0	0	0	0	0	25.4
5:00 AM	8	0	0	1	4	3	0	0	0	0	0	0	0	28.7
6:00 AM	20	0	1	8	9	0	2	0	0	0	0	0	0	26.7
7:00 AM	42	0	5	15	17	5	0	0	0	0	0	0	0	25.5
8:00 AM	51	1	9	19	12	10	0	0	0	0	0	0	0	24.5
9:00 AM	51	1	3	18	23	6	0	0	0	0	0	0	0	25.2
10:00 AM	53	0	5	21	20	7	0	0	0	0	0	0	0	25.1
11:00 AM	82	6	13	31	29	2	1	0	0	0	0	0	0	23.1
12:00 PM	71	1	11	28	24	7	0	0	0	0	0	0	0	24.3
1:00 PM	93	1	8	41	38	5	0	0	0	0	0	0	0	24.4
2:00 PM	86	5	11	31	30	9	0	0	0	0	0	0	0	23.7
3:00 PM	99	4	11	44	34	4	2	0	0	0	0	0	0	23.8
Total	1392	32	157	510	535	142	11	5	0	0	0	0	0	24.8
%		2.3	11.3	36.6	38.4	10.2	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0

Average (Mean) 24.8 mph Minimum 10.2 mph Maximum 43.8 mph Pace Range 19.8 - 29.8 mph 1059 vehicles (76.1%)

Percentile Speeds
(mph)

10%	19.2
15%	20.4
50%	25.0
90%	30.2

Speeds Exceeded

25 mph	49.4% (687)
35 mph	1.1% (15)
45 mph	0% (0)
55 mph	0% (0)
65 mph	0% (0)
75 mph	0% (0)

Greenbriar Ave :
Shell Rd :
New St :

Site: 056SP24
4/20/2024
Saturday

24 Hour Speed

mph	Combined Channels														
	Total	0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200	Avg.
4:00 PM	96	3	10	31	33	18	1	0	0	0	0	0	0	0	25.5
5:00 PM	77	0	7	29	31	8	2	0	0	0	0	0	0	0	25.4
6:00 PM	88	5	16	22	37	8	0	0	0	0	0	0	0	0	24.0
7:00 PM	94	2	7	31	42	9	3	0	0	0	0	0	0	0	25.6
8:00 PM	89	2	4	30	41	11	0	1	0	0	0	0	0	0	25.5
9:00 PM	74	0	8	21	29	14	2	0	0	0	0	0	0	0	26.1
10:00 PM	45	2	2	14	24	2	1	0	0	0	0	0	0	0	25.5
11:00 PM	40	0	3	12	17	7	1	0	0	0	0	0	0	0	26.3
4/21/2024															
12:00 AM	21	0	0	8	8	5	0	0	0	0	0	0	0	0	26.7
1:00 AM	28	0	0	10	12	4	2	0	0	0	0	0	0	0	26.7
2:00 AM	7	0	1	1	3	2	0	0	0	0	0	0	0	0	26.8
3:00 AM	7	1	0	1	4	1	0	0	0	0	0	0	0	0	24.5
4:00 AM	3	0	0	1	1	0	1	0	0	0	0	0	0	0	28.5
5:00 AM	8	0	1	4	2	1	0	0	0	0	0	0	0	0	24.8
6:00 AM	13	0	1	2	8	2	0	0	0	0	0	0	0	0	27.1
7:00 AM	25	1	1	8	14	1	0	0	0	0	0	0	0	0	25.4
8:00 AM	36	1	3	9	18	4	0	1	0	0	0	0	0	0	25.8
9:00 AM	51	0	7	15	23	5	1	0	0	0	0	0	0	0	25.6
10:00 AM	60	1	6	25	23	5	0	0	0	0	0	0	0	0	24.5
11:00 AM	56	1	3	22	19	10	1	0	0	0	0	0	0	0	25.7
12:00 PM	80	3	9	29	29	10	0	0	0	0	0	0	0	0	24.7
1:00 PM	58	1	4	23	26	4	0	0	0	0	0	0	0	0	24.8
2:00 PM	54	0	8	19	15	10	0	2	0	0	0	0	0	0	25.3
3:00 PM	71	4	12	26	23	6	0	0	0	0	0	0	0	0	23.6
Total	1181	27	113	393	482	147	15	4	0	0	0	0	0	0	25.3
%		2.3	9.6	33.3	40.8	12.4	1.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	

Average (Mean) 25.3 mph **Minimum** 11.0 mph **Maximum** 42.4 mph **Pace Range** 20.5 - 30.5 mph 892 vehicles (75.5%)

Percentile Speeds (mph) 10% 19.3 15% 20.7 50% 25.5 85% 29.8 90% 30.8

Speeds Exceeded 25 mph 54.4% (643) 35 mph 1.5% (18) 45 mph 0% (0) 55 mph 0% (0) 65 mph 0% (0) 75 mph 0% (0)

Greenbriar Ave
Shell Rd
New St

Site: 056SP24
4/21/2024
Sunday

24 Hour Speed

Combined Channels															
mph	Total	0 - 0 - 15	15 - 15 - 20	20 - 20 - 25	25 - 25 - 30	30 - 30 - 35	35 - 35 - 40	40 - 40 - 45	45 - 45 - 50	50 - 50 - 55	55 - 55 - 60	60 - 60 - 65	65 - 65 - 70	70 - 70 - 200	Avg.
4:00 PM	81	0	8	34	35	4	0	0	0	0	0	0	0	0	24.6
5:00 PM	72	1	3	23	37	6	2	0	0	0	0	0	0	0	25.9
6:00 PM	61	0	7	27	24	3	0	0	0	0	0	0	0	0	24.8
7:00 PM	65	0	5	21	27	11	0	1	0	0	0	0	0	0	26.0
8:00 PM	51	0	3	17	27	3	1	0	0	0	0	0	0	0	26.0
9:00 PM	51	0	4	15	24	7	1	0	0	0	0	0	0	0	26.2
10:00 PM	44	3	9	9	15	8	0	0	0	0	0	0	0	0	24.5
11:00 PM	21	0	3	5	10	3	0	0	0	0	0	0	0	0	25.7
4/22/2024															
12:00 AM	16	0	3	4	7	1	1	0	0	0	0	0	0	0	25.4
1:00 AM	3	0	1	1	1	0	0	0	0	0	0	0	0	0	22.9
2:00 AM	10	0	1	1	5	3	0	0	0	0	0	0	0	0	27.3
3:00 AM	7	0	0	4	3	0	0	0	0	0	0	0	0	0	24.2
4:00 AM	9	0	0	1	4	4	0	0	0	0	0	0	0	0	28.4
5:00 AM	27	0	1	7	13	4	1	0	0	1	0	0	0	0	27.6
6:00 AM	35	0	3	13	13	6	0	0	0	0	0	0	0	0	25.4
7:00 AM	79	0	2	18	42	14	3	0	0	0	0	0	0	0	27.0
8:00 AM	60	2	5	21	20	10	2	0	0	0	0	0	0	0	25.4
9:00 AM	61	1	6	26	17	10	1	0	0	0	0	0	0	0	24.9
10:00 AM	59	1	8	18	24	6	2	0	0	0	0	0	0	0	25.2
11:00 AM	65	3	7	23	22	10	0	0	0	0	0	0	0	0	24.8
12:00 PM	80	3	7	23	31	14	2	0	0	0	0	0	0	0	25.7
1:00 PM	82	2	10	36	22	10	2	0	0	0	0	0	0	0	24.4
2:00 PM	94	3	5	31	46	9	0	0	0	0	0	0	0	0	25.2
3:00 PM	124	4	6	41	58	15	0	0	0	0	0	0	0	0	25.4
Total	1257	23	107	419	527	161	18	1	0	1	0	0	0	0	25.5
%		1.8	8.5	33.3	41.9	12.8	1.4	0.1	0.0	0.1	0.0	0.0	0.0	0.0	

Average (Mean) 25.5 mph Minimum 10.3 mph Maximum 50.4 mph Pace Range 20.9 - 30.9 mph 973 vehicles (77.4%)

Percentile Speeds (mph) 10% 19.9 15% 21.1 50% 25.8 85% 29.8 90% 30.7

Speeds Exceeded 25 mph 55.6% (699) 35 mph 1.6% (20) 45 mph 0.1% (1) 55 mph 0% (0) 65 mph 0% (0) 75 mph 0% (0)

Greenbriar Ave
Shell Rd
New St

Site: 056SP24
4/22/2024
Monday

24 Hour Speed

mph	Combined Channels														
	Total	0 - ≤ 15	15 - ≤ 20	20 - ≤ 25	25 - ≤ 30	30 - ≤ 35	35 - ≤ 40	40 - ≤ 45	45 - ≤ 50	50 - ≤ 55	55 - ≤ 60	60 - ≤ 65	65 - ≤ 70	70 - ≤ 200	Avg.
4:00 PM	118	3	7	40	52	13	3	0	0	0	0	0	0	0	25.8
5:00 PM	112	3	10	34	46	15	4	0	0	0	0	0	0	0	25.8
6:00 PM	95	2	7	36	36	12	2	0	0	0	0	0	0	0	25.5
7:00 PM	77	1	7	31	32	6	0	0	0	0	0	0	0	0	25.0
8:00 PM	85	1	10	33	32	8	1	0	0	0	0	0	0	0	25.0
9:00 PM	54	2	6	15	25	6	0	0	0	0	0	0	0	0	25.2
10:00 PM	42	0	4	15	20	3	0	0	0	0	0	0	0	0	25.4
11:00 PM	24	3	2	5	10	3	1	0	0	0	0	0	0	0	24.7
4/23/2024															
12:00 AM	13	1	2	4	6	0	0	0	0	0	0	0	0	0	23.4
1:00 AM	7	1	2	1	1	2	0	0	0	0	0	0	0	0	23.5
2:00 AM	7	0	2	1	2	1	1	0	0	0	0	0	0	0	25.4
3:00 AM	4	0	0	2	1	1	0	0	0	0	0	0	0	0	26.0
4:00 AM	9	0	0	1	6	2	0	0	0	0	0	0	0	0	29.0
5:00 AM	32	0	0	7	17	8	0	0	0	0	0	0	0	0	28.1
6:00 AM	36	0	2	8	20	6	0	0	0	0	0	0	0	0	26.4
7:00 AM	59	2	4	10	23	18	2	0	0	0	0	0	0	0	27.4
8:00 AM	59	2	4	16	24	11	2	0	0	0	0	0	0	0	26.3
Total	833	21	69	259	353	115	16	0	0	0	0	0	0	0	25.8
%		2.5	8.3	31.1	42.4	13.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

Average (Mean) 25.8 mph Minimum 10.2 mph Maximum 38.7 mph Pace Range 21.1 - 31.1 mph 635 vehicles (76.2%)

Percentile Speeds 10% 15% 50% 85% 90%
(mph) 19.7 21.3 25.8 30.2 31.4

Speeds Exceeded 25 mph 35 mph 45 mph 55 mph 65 mph 75 mph
58.0% (483) 1.8% (15) 0% (0) 0% (0) 0% (0) 0% (0)

Greenbriar Ave :
W. Pembroke Ave :
Shell Rd :

Site: 051SP24
4/16/2024
Tuesday

24 Hour Speed

Combined Channels															
mph	Total	0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200	Avg.
3:00 PM	78	4	8	35	21	5	0	1	1	1	0	1	0	1	25.5
4:00 PM	97	4	9	33	31	12	1	1	2	4	0	0	0	0	26.6
5:00 PM	117	2	24	40	41	4	2	2	0	1	1	0	0	0	24.7
6:00 PM	111	3	12	41	31	8	6	2	2	2	2	0	1	1	27.2
7:00 PM	81	2	20	28	20	2	6	2	0	1	0	0	0	0	24.7
8:00 PM	67	1	16	19	18	3	0	3	2	4	1	0	0	0	26.7
9:00 PM	51	0	13	17	14	2	2	2	0	0	1	0	0	0	25.1
10:00 PM	46	2	6	15	17	1	3	0	1	0	0	0	0	1	26.0
11:00 PM	29	2	7	13	4	1	0	0	1	0	0	1	0	0	24.1
4/17/2024															
12:00 AM	11	0	3	2	3	1	0	0	0	2	0	0	0	0	29.3
1:00 AM	7	0	5	0	0	0	1	0	0	0	1	0	0	0	26.3
2:00 AM	5	0	2	0	1	1	0	0	1	0	0	0	0	0	29.0
3:00 AM	5	0	0	0	3	0	0	0	0	1	0	0	1	0	40.1
4:00 AM	6	0	1	2	0	1	0	0	2	0	0	0	0	0	32.4
5:00 AM	32	1	6	7	10	2	1	1	2	0	1	0	1	0	28.7
6:00 AM	40	1	9	9	11	5	0	1	1	1	1	0	0	1	27.5
7:00 AM	115	4	22	38	29	9	5	2	1	5	0	0	0	0	25.9
8:00 AM	89	3	18	32	21	5	2	2	3	0	3	0	0	0	25.7
9:00 AM	72	3	17	23	18	4	0	1	3	0	3	0	0	0	25.6
10:00 AM	39	4	6	13	10	3	2	0	0	0	1	0	0	0	24.3
11:00 AM	43	1	7	13	16	2	1	1	0	0	1	1	0	0	26.2
12:00 PM	59	1	8	30	15	2	1	2	0	0	0	0	0	0	24.1
1:00 PM	62	0	7	27	20	6	0	0	0	0	0	2	0	0	25.7
2:00 PM	55	2	8	20	14	7	1	2	0	1	0	0	0	0	25.3

Pace Range 18.8 - 28.8 mph 863 vehicles (65.5%)

Maximum 82.3 mph

Minimum 10.2 mph

Average (Mean)		Percentile Speeds		Speeds Exceeded	
25.9 mph		(mph)			
10%		15%		25 mph	
17.5		18.9		43.7% (575)	
85%		50%		35 mph	
30.8		24.2		10.0% (132)	
90%		90%		45 mph	
34.9		34.9		5.5% (72)	
65 mph		55 mph		2.1% (28)	
0.5% (7)		75 mph		0.1% (1)	

Greenbriar Ave :
W. Pembroke Ave :
Shell Rd :

Site: 051SP24
4/17/2024
Wednesday

24 Hour Speed

mph	Combined Channels														Avg.
	Total	0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200	
3:00 PM	65	0	6	23	24	6	0	0	1	1	1	3	0	0	28.0
4:00 PM	87	6	10	35	25	7	2	0	1	1	0	0	0	0	24.6
5:00 PM	104	5	16	48	24	5	3	3	0	0	0	0	0	0	23.8
6:00 PM	95	2	16	36	30	5	0	4	1	0	0	0	0	1	25.0
7:00 PM	58	1	12	15	21	6	1	2	0	0	0	0	0	0	25.2
8:00 PM	64	3	15	25	17	1	0	1	1	1	0	0	0	0	23.7
9:00 PM	46	0	7	22	8	1	3	3	0	1	1	0	0	0	26.4
10:00 PM	35	0	8	9	9	1	1	0	4	2	1	0	0	0	28.9
11:00 PM	16	0	3	9	2	1	0	0	1	0	0	0	0	0	25.2
4/18/2024															
12:00 AM	8	0	0	5	2	1	0	0	0	0	0	0	0	0	24.6
1:00 AM	5	0	2	0	3	0	0	0	0	0	0	0	0	0	23.9
2:00 AM	5	0	1	1	2	0	0	0	0	0	1	0	0	0	30.4
3:00 AM	2	0	1	0	1	0	0	0	0	0	0	0	0	0	22.9
4:00 AM	10	0	2	1	2	2	1	0	1	0	0	0	1	0	32.1
5:00 AM	32	1	5	9	6	2	1	0	2	3	1	1	1	0	31.5
6:00 AM	43	0	3	16	14	3	1	1	1	2	1	0	0	1	29.1
7:00 AM	55	1	5	15	26	1	2	2	2	1	0	0	0	0	27.5
8:00 AM	67	2	8	25	17	8	2	0	2	3	0	0	0	0	26.4
9:00 AM	54	0	6	13	26	4	1	2	0	1	1	0	0	0	27.3
10:00 AM	42	0	6	14	15	2	1	0	2	0	1	1	0	0	27.5
11:00 AM	74	1	9	26	31	4	0	1	0	0	1	1	0	0	25.9
12:00 PM	67	1	5	23	27	7	2	0	2	0	0	0	0	0	26.2
1:00 PM	65	2	4	23	28	8	0	0	0	0	0	0	0	0	25.5
2:00 PM	85	1	8	40	31	5	0	0	0	0	0	0	0	0	24.5
Total	1184	26	158	433	391	80	21	19	21	16	9	6	2	2	26.0
%		2.2	13.3	36.6	33.0	6.8	1.8	1.6	1.8	1.4	0.8	0.5	0.2	0.2	

Average (Mean) 26.0 mph Minimum 10.2 mph Maximum 75.1 mph Pace Range 18.9 - 28.9 mph 830 vehicles (70.1%)

Percentile Speeds (mph) 10% 18.6 15% 19.7 50% 24.8 85% 30.0 90% 32.9

Speeds Exceeded 25.mph 47.4% (561) 35.mph 8.1% (96) 45.mph 4.7% (56) 55.mph 1.5% (18) 65.mph 0.3% (4) 75.mph 0.1% (1)

Greenbriar Ave
W. Pembroke Ave
Shell Rd

Site: 051SP24
4/18/2024
Thursday

24 Hour Speed

Combined Channels															
mph	Total	0 - 0 - 15	15 - 15 - 20	20 - 20 - 25	25 - 25 - 30	30 - 30 - 35	35 - 35 - 40	40 - 40 - 45	45 - 45 - 50	50 - 50 - 55	55 - 55 - 60	60 - 60 - 65	65 - 65 - 70	70 - 70 - 200	Avg.
3:00 PM	69	1	9	26	30	2	0	1	0	0	0	0	0	0	24.6
4:00 PM	115	9	12	46	32	10	0	1	3	1	1	0	0	0	24.8
5:00 PM	101	1	13	30	40	9	3	0	3	1	1	0	0	0	26.6
6:00 PM	105	1	13	41	34	9	2	1	2	1	1	0	0	0	25.8
7:00 PM	89	6	17	33	23	1	2	2	1	1	2	1	0	0	24.9
8:00 PM	69	7	11	23	18	6	1	0	0	1	2	0	0	0	24.4
9:00 PM	50	0	10	19	13	3	1	1	2	0	1	0	0	0	26.0
10:00 PM	33	3	6	14	6	2	2	0	0	0	0	0	0	0	23.4
11:00 PM	34	1	8	14	6	1	1	0	1	0	1	0	0	1	26.0
4/19/2024															
12:00 AM	7	0	2	2	2	1	0	0	0	0	0	0	0	0	22.9
1:00 AM	5	0	0	3	2	0	0	0	0	0	0	0	0	0	25.5
2:00 AM	8	0	2	2	2	0	1	0	0	0	0	1	0	0	29.4
3:00 AM	8	0	3	2	0	1	0	1	0	1	0	0	0	0	28.0
4:00 AM	9	0	0	3	5	0	0	0	0	0	0	0	0	1	30.9
5:00 AM	28	1	3	6	10	1	1	4	0	0	1	1	0	0	29.3
6:00 AM	35	0	7	14	5	2	1	1	2	1	1	1	0	0	28.4
7:00 AM	63	1	13	23	16	2	2	2	1	2	1	0	0	0	25.6
8:00 AM	82	3	22	19	18	3	2	4	7	0	4	0	0	0	27.5
9:00 AM	55	1	17	21	8	0	1	4	0	2	0	1	0	0	25.2
10:00 AM	66	3	17	22	11	3	2	1	6	0	0	0	0	1	25.8
11:00 AM	47	3	9	20	8	3	1	1	1	1	0	0	0	0	24.5
12:00 PM	69	1	12	33	17	0	0	2	2	1	0	0	1	0	25.1
1:00 PM	73	9	16	23	16	5	2	1	0	0	1	0	0	0	23.0
2:00 PM	74	5	17	18	22	5	0	2	2	2	0	0	1	0	25.6
Total	1294	56	239	457	344	69	25	29	33	15	17	5	2	3	25.6
%		4.3	18.5	35.3	26.6	5.3	1.9	2.2	2.6	1.2	1.3	0.4	0.2	0.2	

Average (Mean) 25.6 mph Minimum 10.4 mph Maximum 80.0 mph Pace Range 17.8 - 27.8 mph 839 vehicles (64.8%)

Percentile Speeds
(mph) 10% 15% 50% 85% 90%
17.3 18.4 24.0 30.1 34.6

Speeds Exceeded 25 mph 35 mph 45 mph 55 mph 65 mph 75 mph
41.3% (535) 10.0% (129) 5.8% (75) 2.1% (27) 0.4% (5) 0.2% (3)

Greenbriar Ave :
W. Pembroke Ave :
Shell Rd :

Site: 051SP24
4/19/2024
Friday

24 Hour Speed

mph	Combined Channels														
	Total	0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200	Avg.
3:00 PM	164	20	38	58	31	10	3	0	1	0	0	0	1	2	22.7
4:00 PM	104	7	25	40	24	3	4	0	0	0	0	1	0	0	22.9
5:00 PM	113	5	34	40	20	5	2	2	2	1	1	1	0	0	23.7
6:00 PM	97	6	30	37	11	3	1	5	2	0	2	0	0	0	24.0
7:00 PM	77	2	15	31	20	3	2	2	0	1	0	0	1	0	24.8
8:00 PM	57	0	16	23	11	0	1	2	0	2	1	0	1	0	25.5
9:00 PM	57	6	15	12	13	2	1	2	3	2	1	0	0	0	25.8
10:00 PM	41	0	9	16	7	2	0	3	0	2	0	1	0	1	28.0
11:00 PM	46	1	14	9	8	2	1	3	3	1	2	2	0	0	29.5
4/20/2024															
12:00 AM	28	1	8	8	4	1	1	2	1	1	0	0	0	1	27.8
1:00 AM	14	0	2	4	5	0	1	1	0	1	0	0	0	0	28.3
2:00 AM	13	0	3	4	5	0	0	1	0	0	0	0	0	0	24.3
3:00 AM	10	0	3	4	1	0	1	1	0	0	0	0	0	0	24.9
4:00 AM	15	0	3	7	3	0	0	0	0	0	1	1	0	0	27.7
5:00 AM	6	0	1	1	0	1	1	1	0	1	0	0	0	0	33.9
6:00 AM	27	0	3	8	7	4	0	0	0	4	1	0	0	0	30.0
7:00 AM	27	1	4	11	5	1	1	1	1	0	0	0	1	1	28.0
8:00 AM	55	1	13	19	13	4	1	2	0	1	1	0	0	0	25.3
9:00 AM	47	2	8	15	10	3	1	2	2	2	0	2	0	0	27.9
10:00 AM	40	2	6	15	13	2	0	0	0	2	0	0	0	0	25.0
11:00 AM	70	1	16	24	18	1	5	1	1	2	1	0	0	0	25.9
12:00 PM	65	1	17	22	14	2	0	3	3	2	1	0	0	0	26.2
1:00 PM	80	4	18	28	11	7	1	2	5	3	1	0	0	0	26.2
2:00 PM	78	9	11	23	29	2	2	0	0	1	0	0	0	1	24.2
Total	1331	69	312	459	283	58	30	36	24	29	13	8	4	6	25.2
%		5.2	23.4	34.5	21.3	4.4	2.3	2.7	1.8	2.2	1.0	0.6	0.3	0.5	

Pace Range 17.2 - 27.2 mph 856 vehicles (64.3%)

Maximum 80.2 mph

Minimum 10.2 mph

Average (Mean) 25.2 mph

Percentile Speeds
(mph)

10% 16.7
15% 17.7
50% 23.0
85% 30.4
90% 37.9

Speeds Exceeded

25 mph
36.4% (485)

35 mph
11.3% (150)

45 mph
6.3% (84)

55 mph
2.3% (31)

65 mph
0.8% (10)

75 mph
0.2% (3)

Greenbriar Ave
W. Pembroke Ave
Shell Rd

Site: 051SP24
4/20/2024
Saturday

24 Hour Speed

mph	Combined Channels														Avg.
	Total	0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200	
3:00 PM	84	20	16	19	17	4	5	0	0	0	3	0	0	0	22.8
4:00 PM	80	5	13	25	23	5	2	1	4	0	1	1	0	0	25.8
5:00 PM	74	0	16	26	19	2	2	0	5	1	2	1	0	0	26.9
6:00 PM	69	1	7	27	24	8	0	0	1	0	0	1	0	0	25.3
7:00 PM	99	1	29	26	26	4	3	4	2	2	1	0	1	0	26.0
8:00 PM	85	4	16	36	19	3	1	2	1	1	1	0	0	1	24.5
9:00 PM	68	0	10	29	19	3	1	0	1	2	0	0	2	1	26.8
10:00 PM	40	1	8	15	11	0	1	1	1	1	0	1	0	0	25.8
11:00 PM	44	0	15	15	5	4	1	2	1	0	1	0	0	0	25.5
4/21/2024															
12:00 AM	20	2	5	6	4	0	2	0	0	0	0	1	0	0	25.0
1:00 AM	45	1	12	13	9	2	3	1	1	1	1	1	0	0	26.8
2:00 AM	6	0	3	1	1	0	0	0	0	1	0	0	0	0	27.2
3:00 AM	5	0	1	2	1	1	0	0	0	0	0	0	0	0	25.2
4:00 AM	4	0	2	1	0	1	0	0	0	0	0	0	0	0	23.2
5:00 AM	6	0	2	2	1	0	0	0	0	0	0	0	1	0	28.9
6:00 AM	17	0	0	7	7	0	0	0	0	1	0	1	1	0	31.0
7:00 AM	16	0	2	5	6	2	0	0	0	1	0	0	0	0	26.5
8:00 AM	33	1	6	18	2	1	1	0	0	1	2	0	1	0	26.8
9:00 AM	42	2	3	12	17	4	0	1	1	0	1	0	0	1	28.6
10:00 AM	54	1	9	17	19	0	1	1	2	1	2	1	0	0	27.4
11:00 AM	54	2	10	15	17	3	1	1	0	4	0	1	0	0	27.2
12:00 PM	67	3	8	26	16	8	1	2	1	2	0	0	0	0	25.7
1:00 PM	55	0	6	24	18	3	0	0	2	2	0	0	0	0	26.0
2:00 PM	53	0	12	15	13	7	0	2	1	1	0	0	2	0	27.4
Total	1120	44	211	382	294	65	25	18	24	22	15	9	8	3	26.1
%	3.9	18.8	34.1	26.3	26.3	5.8	2.2	1.6	2.1	2.0	1.3	0.8	0.7	0.3	

Average (Mean) 26.1 mph Minimum 10.5 mph Maximum 79.6 mph Pace Range 18.0 - 28.0 mph 724 vehicles (64.6%)

Percentile Speeds (mph) 10% 15% 50% 85% 90%
17.4 18.5 24.0 30.9 37.5

Speeds Exceeded 25 mph 35 mph 45 mph 55 mph 65 mph 75 mph
42.9% (480) 11.1% (124) 7.2% (81) 3.1% (35) 1.0% (11) 0.2% (2)

Greenbriar Ave :
W. Pembroke Ave :
Shell Rd :

Site: 051SP24
4/21/2024
Sunday

24 Hour Speed

mph	Combined Channels														
	Total	0 - 0 - 15	15 - 15 - 20	20 - 20 - 25	25 - 25 - 30	30 - 30 - 35	35 - 35 - 40	40 - 40 - 45	45 - 45 - 50	50 - 50 - 55	55 - 55 - 60	60 - 60 - 65	65 - 65 - 70	70 - 70 - 200	Avg.
3:00 PM	68	1	10	19	25	4	0	1	5	3	0	0	0	0	27.5
4:00 PM	69	2	15	19	15	5	3	3	4	2	1	0	0	0	27.0
5:00 PM	76	2	11	24	19	5	0	1	7	2	4	0	0	1	29.1
6:00 PM	60	6	8	24	11	2	1	1	3	2	0	0	1	1	26.6
7:00 PM	79	1	17	21	15	10	4	2	7	2	0	0	0	0	27.8
8:00 PM	56	2	13	18	9	2	2	2	2	1	1	3	1	0	28.3
9:00 PM	47	0	14	11	8	3	0	4	2	2	2	1	0	0	29.3
10:00 PM	41	3	11	7	11	3	2	4	0	0	0	0	0	0	25.1
11:00 PM	28	0	8	8	4	2	2	0	0	0	1	3	0	0	28.7
4/22/2024															
12:00 AM	13	0	4	5	2	1	0	0	1	0	0	0	0	0	24.5
1:00 AM	4	0	1	1	1	0	1	0	0	0	0	0	0	0	26.2
2:00 AM	10	0	4	1	1	1	2	0	1	0	0	0	0	0	27.2
3:00 AM	5	0	2	2	0	0	1	0	0	0	0	0	0	0	23.5
4:00 AM	8	0	2	3	1	0	0	1	1	0	0	0	0	0	27.5
5:00 AM	33	1	4	11	9	1	1	2	1	0	1	0	1	1	29.9
6:00 AM	36	1	8	8	7	1	2	2	3	2	1	0	0	1	30.5
7:00 AM	76	0	13	18	23	4	6	4	1	2	2	3	0	0	29.6
8:00 AM	60	1	10	18	17	4	2	1	3	2	2	0	0	0	27.3
9:00 AM	62	1	18	18	8	7	2	2	1	3	1	0	1	0	27.2
10:00 AM	59	4	19	17	6	1	2	2	3	3	1	0	1	0	26.4
11:00 AM	59	3	9	12	25	2	2	0	1	1	2	1	1	0	27.8
12:00 PM	71	1	14	25	19	3	0	5	0	3	1	0	0	0	26.3
1:00 PM	77	5	11	28	25	4	0	2	0	1	0	1	0	0	24.9
2:00 PM	80	2	14	26	23	10	3	0	1	1	0	0	0	0	24.8
Total	1177	36	240	344	284	75	38	39	47	32	20	12	6	4	27.4
%		3.1	20.4	29.2	24.1	6.4	3.2	3.3	4.0	2.7	1.7	1.0	0.5	0.3	

Average (Mean) 27.4 mph **Minimum** 10.3 mph **Maximum** 76.7 mph **Pace Range** 18.0 - 28.0 mph 673 vehicles (57.2%)

Percentile Speeds 10% 17.3 15% 18.4 50% 24.6 85% 37.4 90% 45.1

Speeds Exceeded 25 mph 46.9% (552) 35 mph 16.8% (198) 45 mph 10.1% (119) 55 mph 3.5% (41) 65 mph 0.8% (10) 75 mph 0.1% (1)

24 Hour Speed															
mph	Combined Channels														
	Total	0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200	Avg.
3:00 PM	89	2	13	32	24	8	1	6	1	0	1	1	0	0	26.9
4:00 PM	108	3	14	33	35	9	4	1	0	3	2	2	0	2	27.9
5:00 PM	98	1	13	20	31	18	3	3	3	4	1	1	0	0	29.0
6:00 PM	89	4	14	36	20	5	1	1	3	4	0	0	1	0	26.2
7:00 PM	77	0	18	31	16	1	3	2	0	3	3	0	0	0	26.2
8:00 PM	66	2	21	18	9	2	3	3	3	3	0	1	1	0	27.0
9:00 PM	41	1	13	6	10	5	2	1	1	2	0	0	0	0	26.3
10:00 PM	45	3	12	16	7	1	1	2	2	1	0	0	0	0	24.8
11:00 PM	25	1	8	4	5	1	0	2	1	0	3	0	0	0	29.1
4/23/2024															
12:00 AM	8	0	2	3	1	0	0	1	1	0	0	0	0	0	27.8
1:00 AM	7	0	3	1	1	0	1	1	0	0	0	0	0	0	26.4
2:00 AM	14	0	6	2	1	0	4	0	1	0	0	0	0	0	26.0
3:00 AM	4	0	0	2	1	0	0	0	0	0	1	0	0	0	32.3
4:00 AM	10	0	2	4	1	0	1	0	1	0	0	0	1	0	30.3
5:00 AM	31	1	4	10	6	3	2	2	2	0	1	2	0	0	28.7
6:00 AM	37	1	6	8	11	4	1	1	1	1	2	1	0	0	29.2
7:00 AM	58	0	9	17	14	2	6	1	2	1	3	2	1	0	30.5
8:00 AM	62	1	14	16	15	4	2	2	2	3	2	1	0	0	27.8

Average (Mean)

27.6 mph

Minimum

11.3 mph

Maximum

75.5 mph

Pace Range

17.6 - 27.6 mph

507 vehicles (58.3%)

Percentile Speeds

(mph)

10%

17.8

50%

24.7

90%

44.4

Speeds Exceeded

25 mph

47.6% (414)

35 mph

16.9% (147)

45 mph

9.5% (83)

55 mph

3.9% (34)

65 mph

0.7% (6)

75 mph

0.1% (1)

Appendix C

Shell Road Traffic Volumes

Shell Rd :
Greenbriar Ave :
Suburban Pkwy :

Site: 057SP24
Wednesday, 4/17/2024 12:00 AM -
Tuesday, 4/23/2024 12:00 AM

Volume Grand Totals

Average Hourly Volumes

	Eastbound	Westbound	Combined
12:00 AM	18.0	11.0	29.0
1:00 AM	14.5	9.0	23.5
2:00 AM	11.7	7.0	18.7
3:00 AM	7.3	7.2	14.5
4:00 AM	9.8	18.5	28.3
5:00 AM	14.3	36.8	51.2
6:00 AM	38.0	43.7	81.7
7:00 AM	32.2	56.5	88.7
8:00 AM	52.0	49.8	101.8
9:00 AM	53.7	45.8	99.5
10:00 AM	64.5	48.5	113.0
11:00 AM	65.2	60.7	125.8
12:00 PM	87.7	64.2	151.8
1:00 PM	76.8	65.7	142.5
2:00 PM	101.3	61.3	162.7
3:00 PM	136.5	68.0	204.5
4:00 PM	122.7	67.7	190.3
5:00 PM	121.0	67.2	188.2
6:00 PM	103.3	71.3	174.7
7:00 PM	75.7	55.3	131.0
8:00 PM	65.5	44.7	110.2
9:00 PM	48.5	36.2	84.7
10:00 PM	40.8	23.8	64.7
11:00 PM	30.3	20.5	50.8
Average Daily Traffic (ADT)	1391.3	1040.3	2431.7

Volume Totals

	Eastbound	Westbound	Combined
	8348	6242	14590
	57.2%	42.8%	

Shell Rd :
Vaughan Ave :
Greenbriar Ave :

Site: 058SP24
Wednesday, 4/17/2024 12:00 AM -
Tuesday, 4/23/2024 12:00 AM

Volume Grand Totals

Average Hourly Volumes

	Eastbound	Westbound	Combined
12:00 AM	29.8	11.8	41.7
1:00 AM	27.8	9.7	37.5
2:00 AM	17.0	7.5	24.5
3:00 AM	13.5	7.3	20.8
4:00 AM	16.5	21.3	37.8
5:00 AM	24.8	43.3	68.2
6:00 AM	57.5	51.5	109.0
7:00 AM	62.8	61.7	124.5
8:00 AM	82.2	58.3	140.5
9:00 AM	89.2	52.7	141.8
10:00 AM	102.2	51.2	153.3
11:00 AM	104.0	60.5	164.5
12:00 PM	131.0	65.5	196.5
1:00 PM	123.3	68.7	192.0
2:00 PM	161.3	66.0	227.3
3:00 PM	222.2	70.8	293.0
4:00 PM	204.5	69.8	274.3
5:00 PM	201.7	73.8	275.5
6:00 PM	167.7	72.8	240.5
7:00 PM	133.0	59.0	192.0
8:00 PM	112.0	44.5	156.5
9:00 PM	80.2	38.2	118.3
10:00 PM	70.2	26.2	96.3
11:00 PM	48.3	22.0	70.3
Average Daily Traffic (ADT)	2282.7	1114.2	3396.8

Volume Totals

	Eastbound	Westbound	Combined
	13696	6685	20381
	67.2%	32.8%	

Appendix D

Greenbrier Avenue Traffic Volumes

Greenbriar Ave :
W. Pembroke Ave :
Shell Rd :

Site: 051SP24
Wednesday, 4/17/2024 12:00 AM -
Tuesday, 4/23/2024 12:00 AM

Volume Grand Totals

Average Hourly Volumes

	Southbound	Northbound	Combined
12:00 AM	9.8	4.7	14.5
1:00 AM	6.0	7.3	13.3
2:00 AM	4.3	3.5	7.8
3:00 AM	1.7	4.2	5.8
4:00 AM	1.7	7.0	8.7
5:00 AM	3.8	19.0	22.8
6:00 AM	6.0	27.0	33.0
7:00 AM	22.0	36.7	58.7
8:00 AM	26.7	37.7	64.3
9:00 AM	26.7	28.7	55.3
10:00 AM	23.7	26.3	50.0
11:00 AM	30.2	27.7	57.8
12:00 PM	32.7	33.7	66.3
1:00 PM	36.2	32.5	68.7
2:00 PM	39.7	31.2	70.8
3:00 PM	50.7	39.2	89.8
4:00 PM	58.0	35.8	93.8
5:00 PM	50.8	43.5	94.3
6:00 PM	46.7	39.2	85.8
7:00 PM	41.8	38.0	79.8
8:00 PM	39.0	27.2	66.2
9:00 PM	33.3	18.2	51.5
10:00 PM	23.5	15.7	39.2
11:00 PM	21.3	10.8	32.2

Average Daily Traffic (ADT)	636.2	594.5	1230.7
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Volume Totals

	Southbound	Northbound	Combined
	3817	3567	7384
	51.7%	48.3%	

Greenbriar Ave :
Shell Rd :
New St :

Site: 056SP24
Wednesday, 4/17/2024 12:00 AM -
Tuesday, 4/23/2024 12:00 AM

Volume Grand Totals

Average Hourly Volumes

	Northbound	Southbound	Combined
12:00 AM	4.5	10.3	14.8
1:00 AM	4.7	6.8	11.5
2:00 AM	3.7	5.2	8.8
3:00 AM	3.2	2.7	5.8
4:00 AM	8.5	3.2	11.7
5:00 AM	18.0	4.3	22.3
6:00 AM	24.3	8.5	32.8
7:00 AM	36.3	31.3	67.7
8:00 AM	36.5	33.5	70.0
9:00 AM	29.8	32.2	62.0
10:00 AM	26.0	30.5	56.5
11:00 AM	26.8	37.7	64.5
12:00 PM	34.5	44.5	79.0
1:00 PM	32.3	47.0	79.3
2:00 PM	32.0	51.3	83.3
3:00 PM	33.7	67.8	101.5
4:00 PM	36.5	77.8	114.3
5:00 PM	44.0	63.8	107.8
6:00 PM	37.2	61.8	99.0
7:00 PM	32.0	49.8	81.8
8:00 PM	25.3	46.2	71.5
9:00 PM	18.7	35.8	54.5
10:00 PM	15.0	26.7	41.7
11:00 PM	9.5	18.8	28.3
Average Daily Traffic (ADT)	573.0	797.7	1370.7

Volume Totals

	Northbound	Southbound	Combined
	3438	4786	8224
	41.8%	58.2%	

Appendix E

Shell Road Speed Statistics

Shell Rd
Vaughan Ave
Greenbriar Ave

Speed Statistics Per Day

mph	Combined Channels						
	Tue 4/16/2024	Wed 4/17/2024	Thu 4/18/2024	Fri 4/19/2024	Sat 4/20/2024	Sun 4/21/2024	Tue 4/23/2024
Count	1797	3636	3646	4142	3033	2499	847
Minimum	10.4	10.5	10.2	10.0	10.0	10.2	12.8
Maximum	73.2	76.9	81.1	66.8	84.4	71.0	76.9
Average	33.9	33.8	34.4	33.1	33.8	34.4	35.8
Median	34.3	34.1	34.7	33.7	34.1	34.6	35.8
<u>Pace Range</u>	31.0 - 41.0	29.3 - 39.3	29.8 - 39.8	29.1 - 39.1	28.0 - 38.0	30.1 - 40.1	30.1 - 40.1
Count	1034	2059	2136	2405	1765	1462	484
	58%	57%	59%	58%	58%	59%	57%
<u>Percentiles</u>							
10 %	25.3	25.5	25.9	24.4	25.5	26.0	27.0
15 %	27.2	27.0	27.7	26.0	27.2	27.5	28.4
50 %	34.3	34.1	34.7	33.7	34.1	34.6	35.8
85 %	40.5	40.4	40.9	39.6	40.2	40.6	42.2
90 %	41.7	41.8	42.5	41.2	41.6	42.4	44.3
<u>Speeds Exceeded</u>							
25	1626	3320	3354	3650	2766	2314	804
	90%	91%	92%	88%	91%	93%	95%
35	811	1597	1739	1694	1324	1193	470
	45%	44%	48%	41%	44%	48%	55%
45	73	148	189	152	120	115	68
	4%	4%	5%	4%	4%	5%	8%
55	6	21	16	15	15	12	9
	0.3%	1%	0%	0%	0%	0%	1.1%
65	1	7	5	1	4	2	2
	0.1%	0.2%	0.1%	0.0%	0.1%	0.1%	0.2%
75	0	2	1	0	3	0	2
	0%	0.1%	0.0%	0%	0.1%	0%	0.2%

Shell Rd :
Greenbriar Ave :
Suburban Pkwy :

Site: 057SP24

Speed Statistics Per Day

Combined Channels								
mph	Tue 4/16/2024	Wed 4/17/2024	Thu 4/18/2024	Fri 4/19/2024	Sat 4/20/2024	Sun 4/21/2024	Mon 4/22/2024	Tue 4/23/2024
Count	1229	2616	2623	2942	2190	1800	2419	591
Minimum	10.9	11.0	10.0	10.2	10.0	10.1	11.2	10.3
Maximum	55.1	79.0	68.3	64.2	80.0	74.1	63.4	64.8
Average	34.9	34.6	35.1	34.2	34.6	35.1	35.1	36.6
Median	35.3	35.1	35.4	34.7	35.1	35.7	35.5	36.9
Pace Range	31.0 - 41.0	31.0 - 41.0	31.3 - 41.3	30.1 - 40.1	30.4 - 40.4	31.3 - 41.3	30.9 - 40.9	31.6 - 41.6
Count	747	1507	1504	1717	1240	1027	1365	338
	61%	58%	57%	58%	57%	57%	56%	57%
Percentiles								
10 %	25.5	25.4	25.4	24.4	25.1	25.3	25.6	26.9
15 %	27.9	27.2	28.0	26.8	27.4	27.6	27.6	29.1
50 %	35.3	35.1	35.4	34.7	35.0	35.6	35.4	36.9
85 %	41.2	41.3	41.9	40.7	41.5	41.8	41.9	43.5
90 %	42.7	42.9	43.6	42.6	43.2	44.0	43.5	44.9
Speeds Exceeded								
25	1121 91%	2371 91%	2380 91%	2601 88%	1972 90%	1628 90%	2208 91%	551 93%
35	633 52%	1311 50%	1377 52%	1407 48%	1094 50%	962 53%	1280 53%	364 62%
45	60 5%	143 5%	178 7%	158 5%	133 6%	119 7%	172 7%	57 10%
55	1 0.1%	10 0%	9 0.3%	5 0.2%	12 1%	9 0.5%	10 0%	7 1.2%
65	0 0%	2 0.1%	2 0.1%	0 0%	4 0.2%	1 0.1%	0 0%	0 0%
75	0 0%	2 0.1%	0 0%	0 0%	2 0.1%	0 0%	0 0%	0 0%

Appendix F

Greenbriar Avenue Speed Statistics

Greenbriar Ave :
Shell Rd :
New St :

Site: 056SP24

Speed Statistics Per Day

mph	Combined Channels							
	Tue 4/16/2024	Wed 4/17/2024	Thu 4/18/2024	Fri 4/19/2024	Sat 4/20/2024	Sun 4/21/2024	Mon 4/22/2024	Tue 4/23/2024
Count	658	1490	1466	1489	1337	1024	1418	226
Minimum	10.2	10.1	10.4	10.2	10.2	10.5	10.2	10.3
Maximum	47.9	44.9	52.7	43.8	40.8	42.4	50.4	37.6
Average	25.4	25.2	25.7	25.1	24.9	25.3	25.5	26.7
Median	25.7	25.5	25.8	25.3	25.2	25.5	25.6	27.1
Pace Range	19.9 - 29.9	20.5 - 30.5	21.3 - 31.3	19.9 - 29.9	20.4 - 30.4	20.5 - 30.5	21.1 - 31.1	22.6 - 32.6
Count	498	1124	1127	1134	1011	793	1097	166
	76%	75%	77%	76%	76%	77%	77%	73%
Percentiles								
10 %	19.8	19.1	20.1	19.5	18.8	19.5	19.7	19.7
15 %	20.7	20.6	21.4	20.6	20.5	20.9	21.2	21.8
50 %	25.6	25.5	25.8	25.3	25.2	25.5	25.6	27.0
85 %	29.9	29.6	30.1	29.5	29.4	29.4	29.9	31.7
90 %	30.9	30.7	31.1	30.7	30.5	30.5	30.8	32.8
Speeds Exceeded								
25	360 55%	804 54%	839 57%	787 53%	683 51%	550 54%	784 55%	154 68%
35	10 2%	24 2%	29 2%	20 1%	17 1%	12 1%	25 2%	5 2.2%
45	1 0.2%	0 0%	2 0.1%	0 0%	0 0%	0 0%	1 0.1%	0 0%
55	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%
65	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%
75	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%

Greenbriar Ave :
W. Pembroke Ave :
Shell Rd :

Site: 051SP24

Speed Statistics Per Day

mph	Combined Channels							
	Tue 4/16/2024	Wed 4/17/2024	Thu 4/18/2024	Fri 4/19/2024	Sat 4/20/2024	Sun 4/21/2024	Mon 4/22/2024	Tue 4/23/2024
Count	677	1210	1279	1385	1218	1001	1291	231
Minimum	10.2	10.2	11.3	10.4	10.2	10.5	10.3	13.6
Maximum	82.3	75.1	80.0	76.3	80.2	79.6	75.5	65.8
Average	25.8	25.7	26.0	25.1	25.9	27.4	27.1	28.8
Median	24.4	24.1	24.8	22.8	23.9	24.5	24.6	25.2
<u>Pace Range</u>	18.8 - 28.8	18.0 - 28.0	19.2 - 29.2	17.0 - 27.0	17.7 - 27.7	18.0 - 28.0	18.0 - 28.0	16.5 - 26.5
Count	453	809	894	883	789	595	768	126
	67%	67%	70%	64%	65%	59%	59%	55%
<u>Percentiles</u>								
10 %	17.3	17.7	18.4	16.6	17.2	17.6	17.6	17.6
15 %	18.9	18.9	19.7	17.6	18.2	18.7	18.6	18.3
50 %	24.4	24.1	24.8	22.8	23.9	24.5	24.6	25.2
85 %	30.2	30.3	29.9	30.1	30.9	35.5	34.8	41.7
90 %	34.7	33.3	32.2	37.6	39.0	45.1	43.0	47.3
<u>Speeds Exceeded</u>								
25	295 44%	515 43%	613 48%	494 36%	499 41%	465 46%	602 47%	119 52%
35	66 10%	111 9%	97 8%	155 11%	145 12%	153 15%	194 15%	55 24%
45	33 5%	61 5%	62 5%	85 6%	87 7%	103 10%	109 8%	30 13%
55	11 2%	24 2%	22 2%	34 2%	31 3%	36 4%	41 3%	15 6%
65	4 0.6%	4 0.3%	4 0.3%	10 1%	9 0.7%	10 1%	10 1%	2 0.9%
75	1 0.1%	1 0.1%	1 0.1%	3 0.2%	3 0.2%	2 0.2%	1 0.1%	0 0%

Appendix G

Crash Report Summary

Shell Road at Greenbriar Avenue Crashes (2019-2023)						
Date	Crash Type	Crash Severity	Time of Day	Weather	Road Conditions	Contributing Factors
3/22/2019	Angle	Type A	Day	Clear/Cloudy	Dry	Did Not Have Right-of-Way
4/24/2019	Angle	Property Damage	Day	Clear/Cloudy	Dry	Did Not Have Right-of-Way
4/27/2019	Angle	Type A	Day	Clear/Cloudy	Dry	Did Not Have Right-of-Way
10/29/2019	Angle	Type A	Day	Clear/Cloudy	Dry	Did Not Have Right-of-Way
3/10/2020	Angle	Property Damage	Day	Clear/Cloudy	Dry	Disregard Stop or Yield Sign
8/14/2020	Angle	Type C	Day	Rain	Wet	Did Not Have Right-of-Way
9/21/2020	Other	Type C	Day	Clear/Cloudy	Dry	Did Not Have Right-of-Way
10/30/2020	Angle	Type C	Day	Clear/Cloudy	Dry	Did Not Have Right-of-Way
12/23/2020	Angle	Type C	Night	Clear/Cloudy	Dry	Disregard Stop or Yield Sign
8/24/2021	Other	Type C	Night	Clear/Cloudy	Dry	Improper or Unsafe Lane Change
8/28/2021	Angle	Type A	Night	Clear/Cloudy	Dry	Hit and Run
10/28/2021	Angle	Type C	Night	Clear/Cloudy	Dry	Did Not Have Right-of-Way
11/16/2021	Angle	Property Damage	Day	Clear/Cloudy	Dry	No Improper Action
12/30/2021	Angle	Property Damage	Day	Rain	Wet	Did Not Have Right-of-Way
1/7/2022	Angle	Type C	Day	Clear/Cloudy	Dry	Did Not Have Right-of-Way
5/4/2022	Angle	Type C	Day	Clear/Cloudy	Dry	Did Not Have Right-of-Way
8/31/2022	Angle	Type A	Day	Clear/Cloudy	Dry	Did Not Have Right-of-Way
9/16/2022	Angle	Type C	Day	Clear/Cloudy	Dry	Hit and Run

Appendix H

Shell Road Photos

EB Shell Road Looking North on Greenbrier Ave



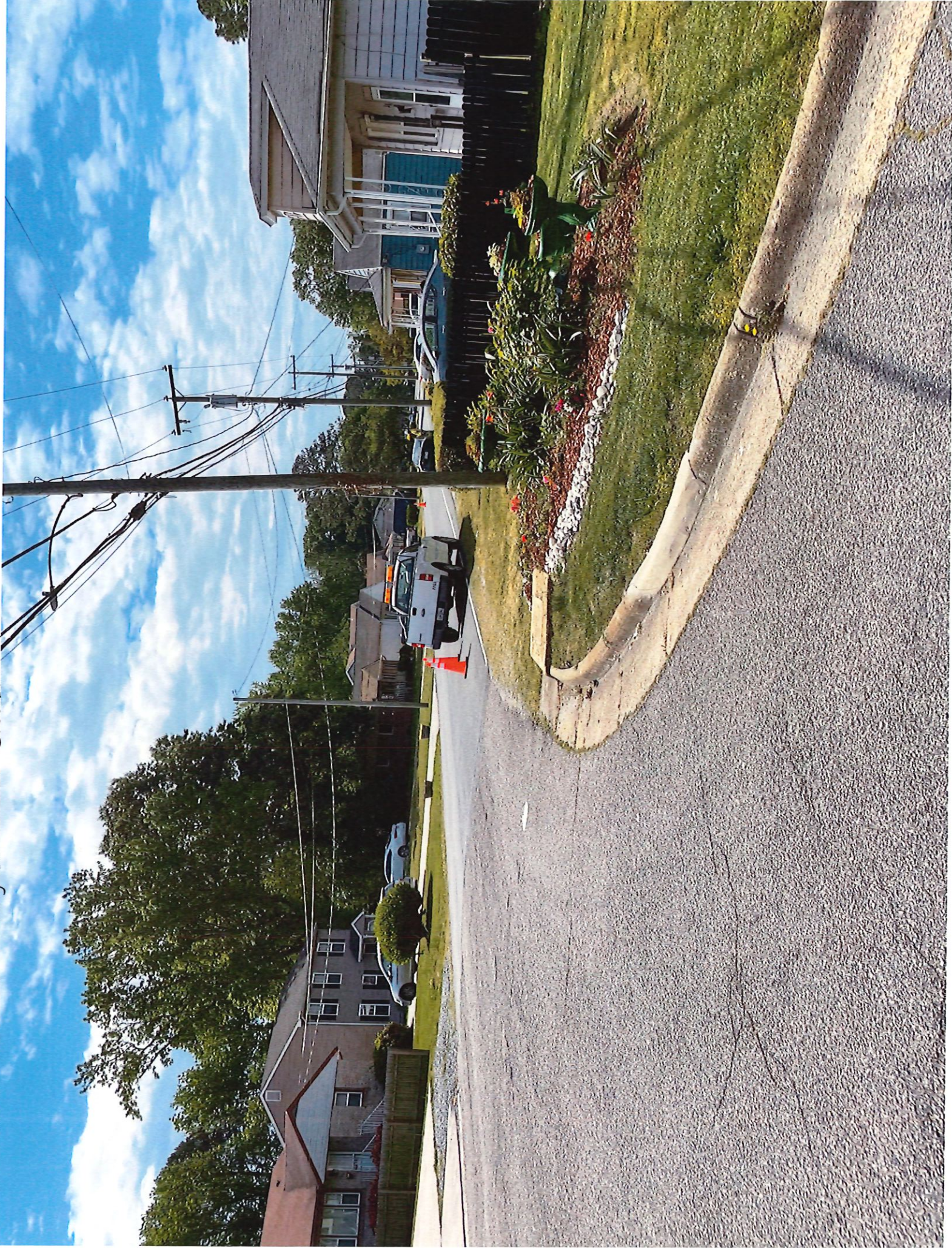
1518 Shell Road Looking South on Greenbriar Avenue



WB Shell Road Leans North on Greenbriar Avenue



WB Shell Road Looking south on Greenbriar Ave



Appendix I

Greenbrier Avenue Photos

NB Greenbriar Avenue Look West on Shell Road



NB Greenbriar Avenue Looking East on Shell Rd



SB Greenbriar Avenue Looks east on Shell Road



SB Greenbrier Avenue Loops West on Shell Road



Appendix J

Intersection Map

