

**Agenda**  
**Royal Oak Citizens Traffic Committee Meeting**  
**City Hall, 203 S. Troy Street**  
**Royal Oak, MI 48067**

**Tuesday, March 26, 2024 at 6:30 p.m.**  
**City Commission Chambers**

*Anyone planning to attend the meeting who has need of special assistance under the Americans with Disabilities Act (ADA) is asked to contact the City Clerk's office at 248.246.3050 at least two (2) business days prior to the meeting.*

**1. Call to Order**

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**2. Roll Call and Preamble**

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**3. Previous Minutes – January 23, 2024**

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**4. Public Comment**

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**5. Rescheduled Items and Old Business**

5A. Results of January Traffic Committee Recommendations to city commission

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**6. Agenda Items**

6A. Request to install flashing school signs for Addams Elementary

6B. Request to improve site distance on Forestdale Road near Woodward Avenue

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**7. Information Only Items**

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**8. Adjourn**

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## **Citizens Traffic Committee Meeting**

**March 26, 2024 6:30 P.M.**

### **Agenda Explanation**

- 1. Call to Order**
- 2. Roll Call**

#### **Preamble**

"The Traffic Committee consists of Royal Oak property owners appointed by the City Commission. We are volunteers and are not paid or elected. What we decide tonight is merely a recommendation to the City Commission. If you do not agree with the findings or decisions of this committee, you may go before the City Commission and petition and/or discuss your issue with them. At this meeting you will be given an opportunity to speak during your item on the agenda. However, at the City Commission meeting, you must be recognized during "public comment" on their agenda, not when the Traffic Committee resolutions are being voted upon. Otherwise, you will not be able to voice your concerns.

It is important to understand that professionals make preliminary recommendations to the Traffic Committee. They consist of civil and traffic engineers, outside consultants and public safety officials. You may have been informed that these professionals have denied your request or petition. This denial does not mean that this committee will vote that way; however, we are committed to discussing the issues at hand in a pragmatic and sensible manner. Our ultimate recommendation to the City Commission will be one that benefits our citizens and community as a whole."

**Note – the recommendations from the Citizens Traffic Committee meeting are scheduled to be presented to the City Commission at the 7:30 p.m., April 22, 2024 meeting.**

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- 3. Minutes – January 23, 2024**
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- 4. Public Comment – Items Not on the Agenda**
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- 5. Rescheduled Items and Old Business**

#### **5.A Results of January Traffic Committee Recommendations to city commission**

Staff brought the January 23, 2024 Citizens Traffic Committee recommendations to the February 12, 2024 commission meeting. The city commission approved all items as recommended by the traffic committee.

## 6. Agenda Items

### 6.A Request to install flashing school signs for Addams Elementary

The Royal Oak School District requested the installation of electronic school zone signage on Webster Avenue adjacent to Addams Elementary. They have noticed unsafe driving during student drop-off and dismissal.

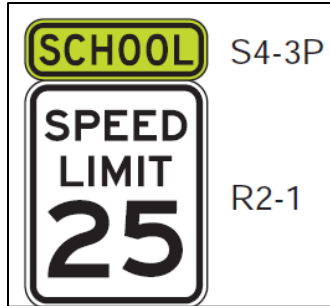
The Staff Traffic Committee has reviewed this request and determined that:

- Webster Road is a 36-foot wide major road consisting of composite pavement with concrete curbing.
- Webster Road is signed for 25 mph where shown on the map below. Additionally there are “School” pavement markings near Addams Elementary, and a traffic signal at Elmhurst Avenue.



- Flashing speed limit signs near schools are generally installed to indicate a lower speed limit in a school zone. As an example, the signs for Keller Elementary designate a 25 mph speed limit during school hours, and 35 mph at other times. However, Webster Road is already signed for 25 mph, so a lower speed limit is not applicable here.
- It is permissible to install solar-powered, flashing “SPEED LIMIT 25 mph” signs and set them up to flash during school arrival/dismissal times. The additional yellow “SCHOOL” plaque (S4-P) should be added to the top of the sign. These signs need to be within 1,000 of the school property lines.





*(with solar panel and flashing dots around perimeter of speed limit sign)*

- Recommended locations for the signs are provided below:



- Properties adjacent to the proposed signs will be notified of the Traffic Committee meeting.

**Suggested Staff Recommendation: To install two (2) solar-powered sign assemblies on Webster Road near Addams Elementary which include “Speed Limit 25 MPH” R-21 signs, “School” S4-P plaques, and programmed to flash during school arrival and dismissal periods.**

Estimated cost: \$11,000

Moved by: Jacob Theisen

Supported by: Scott Gardner

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## **6.B Request to improve site distance on Forestdale Road near Woodward Avenue**

A request was received from Lauren Ayles of 805 Forestdale Road requesting that some on-street parking spaces be removed from the north side of Forestdale Road near Woodward. She notes that these vehicles block the sight line of oncoming traffic in both directions due to the road

curvature. She also notes that it is difficult to turn onto Woodward Avenue from Forestdale Road due to business parking in the Woodward right-of-way south of Forestdale Road.

The Staff Traffic Committee has reviewed this request and determined that:

1. Forestdale Road is a 31-foot wide local road consisting of concrete pavement with curbing.
2. Woodward Avenue is a 4-lane major road under Michigan Department of Transportation (MDOT) jurisdiction.
3. Parking is prohibited on the east side of Forestdale Road.
4. Parking is allowed on the west side of Forestdale Road as illustrated below:



5. The three-year crash history for Forestdale Road (2021-2023) shows:
  - a. One accident caused by snow/ice where a right turn vehicle from Woodward hit a vehicle waiting at the Forestdale stop sign.
  - b. One accident where a bicycle crashed into a vehicle waiting at the Forestdale stop sign.

6. The recommended stopping sight distance required for a 25 mph street is 155 feet (MDOT Sight Distance Guidelines). An analysis of the current conditions indicate there is approximately 134 feet of sight distance for northbound vehicles and 137 feet of sight distance for southbound vehicles.
7. Moving the existing "No Parking Beyond Sign" sign 20 feet to the north would result in sight distances of 162 feet looking northbound and 156 feet looking southbound, and staff recommends making this change. This corresponds to the loss of one parking space on the street.
8. For the other concern regarding parked vehicles in the Woodward right-of-way, it is true that parked vehicles along Woodward Avenue obstruct views of Woodward traffic for a car stopped at the Forestdale stop sign, leaving approximately 93 feet of sight distance.
9. In order to obtain 155 feet of sight distance while stopped at the stop sign, all parking in front of 27542 Woodward would need to be eliminated. However, as in many other places in Royal Oak, cars can creep beyond the stop sign (once confirming there are no pedestrians in the crosswalk) to get a better view of Woodward traffic. There is 265 feet of sight distance for this scenario.
10. As there is a safe way to view Woodward traffic, staff does not recommend any changes to the parking along Woodward Avenue.
11. Staff will notify the adjacent car dealership property of this item on the agenda.

**Suggested Staff Recommendation: To relocate the existing "no parking beyond" sign on the west side of Forestdale Road just north of Woodward Avenue to be an additional 20 feet further to the north.**

Estimated cost: \$300

Moved by: Scott Gardner

Supported by: Jacob Theisen

## 7. Information Only Items

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## 8. Adjourn



## **Citizens Traffic Committee Meeting Minutes January 23, 2024**

A regular meeting of the Royal Oak Citizens Traffic Committee was held on Tuesday, January 23, 2024, in the commission chambers at City Hall, 203 S. Troy Street, Royal Oak.

### **1. Call to Order**

The meeting was called to order by Chairperson Godek at 6:31 p.m.

### **2. Roll Call:**

#### Present

Dan Godek, Chairperson  
Carl Laubach, Vice Chairperson  
Thomas Allen  
Sean Dunlop  
Samantha Grant  
Joe Labataille  
Austin Schneider  
Clyde Esbri, Alternate

#### Also Present

Holly J. Donoghue, City Engineer  
Jennifer Caudill, Municipal Clerk III

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### **3. Approval of Traffic Committee Meeting Minutes of November 28, 2023**

Moved by: Samantha Grant

Supported by: Carl Laubach

Motion adopted unanimously

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### **4. Public Comment**

Chairperson Godek opened the floor to public comment. No one came forward.

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### **5. Rescheduled Items/Old Business**

#### **5.A Results of November Traffic Committee Recommendations to city commission**

Staff brought the November 28, 2023 Citizens Traffic Committee recommendations to the December 18, 2023 commission meeting. The city commission approved all items as recommended by the traffic committee. Additionally, for item 6D regarding the audible pedestrian signals on 13 Mile Road, the commission directed staff to expedite the design to allow for installation in 2024.

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## 6. Agenda Items

### 6.A Petition to install speed humps on Northwood Boulevard between Woodward Avenue and Crooks Road

Staff plans to resurface Northwood Boulevard in 2024, and staff previously presented traffic calming options at the September 26, 2023 traffic committee meeting. Ultimately the city commission approved some minor calming improvements, and also declassified Northwood as a priority snowplow route. Now that Northwood is not a snowplow route, it qualifies for the installation of speed humps. Staff prepared a petition, which was circulated and returned for approval.

The findings of the Staff Traffic Committee were presented by Holly Donoghue, P.E.

Chairperson Godek opened the floor to those interested in speaking on this issue:

- Gail Mazzocco of 1514 Northwood spoke in favor of the speed humps. She thanked Holly and the committee members for listening to the residents' concerns seriously and spending a lot of time to find a solution for the neighborhood. She believes the speed humps will be effective in slowing down vehicles and reducing cut-thru traffic.
- Ian Caldwell of 1833 Northwood stated he was not in favor of the speed humps and specifically requested the one near his home be relocated or skipped/removed completely. He was worried about noise, property value, yellow signs and hinderance to emergency vehicles.
- Steve Jozwiak of 1622 Bonnieview spoke about his concerns with the speed humps. Stated bump outs would work better and are more aesthetically pleasing, he was concerned about property values lowering due to the humps. He was also concerned about the total quantity of humps along the corridor and the lack of police enforcement along the corridor.
- Nancy Sumner of 1502 Northwood spoke in favor of the speed humps. She feels they are the best option and solution for dealing with cut thru traffic and speeding vehicles. Thought that this Priority 3 street should have been plowed last week.
- Pat Craddock of 2109 Northwood spoke in favor of the speed humps due to the speeding issues. He does not like the idea of driving over so many humps each day going to work, but felt it was worth it for the safety of the neighborhood. He asked residents and the committee to consider the idea of closing Northwood at both Woodward and Crooks and if that was feasible.
- Ann Modelski of 2010 Northwood spoke, requesting the digital speed limit signs to help manage traffic speeds.
- Kate Pultz of 1805 Northwood spoke in favor of the bump outs and humps. She wanted to know where the speed humps signage was planned. She spoke about her own research which concluded that there is no loss in property value on streets with speed humps and stated that the noise is a non-issue. She asked if there will be a follow up study to determine the effectiveness of the humps, post installation.



- Pete Pultz of 1805 Northwood spoke regarding thoughts of the temporary closure this past summer at the railroad viaduct and how much of an effect that had on reducing cut-thru traffic and speeding. He wanted the committee to think about whether this could be a permanent closure. He also spoke about the difficulty for pedestrians to cross at Lloyd and requested a raised crosswalk there.

Chairperson Godek closed public comment.

**The Traffic Committee recommends adopting the staff recommendation to install 16 speed humps as proposed on Northwood Boulevard between Woodward Avenue and Crooks Road with associated chevron road markings and “Speed Hump 20 MPH” signs.**

Estimated cost: \$91,900

Moved by: Carl Laubach

Supported by: Sean Dunlop

Motion adopted unanimously

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**7. Information Only Items**

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**8. Adjourn**

Upon the motion of Austin Schneider, seconded by Sean Dunlop, and adopted unanimously, the regular meeting was adjourned at 7:25 p.m.

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**From:** [noreply@civicplus.com](mailto:noreply@civicplus.com)  
**To:** [Engineering Division](#)  
**Subject:** Online Form Submittal: Traffic Committee Request  
**Date:** Friday, January 5, 2024 1:15:12 PM

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## Traffic Committee Request

### Traffic Request Form

**Please complete required fields and submit.**

Name	Kathy Abela
Email Address	katherine.abela@royaloakschools.org
Street Address	800 DeVillen
Phone Number	2484358400
Location of Concern	Webster between Linwood & Clawson
Type of Issue	Other
Detailed Description of Concern	<p>Please install an electronic school zone sign reminding drivers during drop off and pick up that it's a school zone. It's a sign like we have at other Royal Oak Schools.</p> <p>We have observed many vehicles not being careful during drop-off and dismissal. This is for the safety of our students.</p>
Proposed Solution	Electronic school zone sign.
Media Upload	<i>Field not completed.</i>
Important	I have the reviewed the Traffic Committee's Frequently Asked Questions (FAQ) regarding traffic requests and concerns

(Section Break)

### Neighborhood Support

Analyzing traffic requests can take a significant amount of staff time, and we require neighborhood support for a particular issue before beginning review.

Please provide at least two neighbors' contact information, who are in agreement with your concerns or request. **They must be from separate households.** They will be notified if this item is brought to the Traffic Committee.

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Name	Stephanie Barkman
Address	3029 Benjamin Ave
Email	stephbarkman@gmail.com
Name	Tim Boyer
Address	2222 W. Webster
Email	timothy.boyer@royaloakschools.org

Email not displaying correctly? [View it in your browser.](#)



# CARRIER & GABLE, INC.

24110 Research Drive  
Farmington Hills, MI 48335  
(248) 477-8700 (248) 473-0730 • FAX

[www.carriergable.com](http://www.carriergable.com)

## SALES QUOTE

Page: 1

Sales Quote 61620  
Sales Quote Date: 11/21/2022  
Expires On: 12/21/2022  
Customer ID: 1960  
SalesPerson: Chris Leonard  
Terms: NET 30 DAYS

### Sell

To: ROYAL OAK, CITY OF  
HOLLY DONOGHUE  
P.O. BOX 64  
FINANCE DEPT  
ROYAL OAK, MI 48068-0064

### Ship

To: ROYAL OAK, CITY OF  
P.O. BOX 64  
FINANCE DEPT  
ROYAL OAK, MI 48068-0064

### ALL VALUES STATED IN U.S. DOLLARS

Bid Item No.:  
Shipment Within: 8-10 WEEKS ARO  
Shipping Terms:  
Project No.:  
Intersection: SCHOOL ZONE FLASHING SIGNS  
Project City: ROYAL OAK  
Project County:  
Sheet:  
Project Misc.:

Item No.	Description	Cross-Reference No.	Qty.	Unit Price	Total Price
177BEACONR829D	R829-F DUAL SZ FLASHER		1	5,079.75	5,079.75
177-3060	SOLAR ENGINE, R829-F, YELLOW		1		
177-NS12963	MOUNT BRACKET, 4.5" OD, YELLOW, NO HOLES OR		1		
177-2046	BATTERY, F SERIES 17.2 AH STANDARD		2		
177-NS13400	LED SIGN, S5-1 SCHOOL FYG, 25MPH WHEN FLASH,		1		
177-NS13074	BANDING KIT FOR LED SIGN MOUNT, WITHOUT		1		
177-2085	HARNESS, LED/PUSH BUTTON, 16'		1		
177-NS11281	CALENDAR COMMUNICATION KIT, 16' SERIAL TO		1		
177-NS11531	CALENDAR UPLOAD/OVERRIDE SWITCH KIT		1		
	***** END of KIT *****				
	FREIGHT OUT-MICHIGAN TBD		1		

Amount Subject to Sales Tax	0	<b>Subtotal:</b>	<b>5,079.75</b>
Amount Exempt from Sales Tax	5,079.75	Invoice Discount:	0.00
		Total Sales Tax:	0.00
		<b>Total:</b>	<b>5,079.75</b>



# LED Enhanced Signs

## Data Sheet



**LED flashing signs improve driver compliance at crosswalks, school zones, warning and stop signs:**

- ✓ Brightest in the industry: more than 1,000,000 mcd daytime light intensity
- ✓ System is reliable, compact and lightweight
- ✓ Solar Power Report™ (SPR) prepared for every location to ensure battery longevity

### High-Intensity Light Output

Our LED Enhanced Sign provides high-intensity light output that can improve driver response under all conditions, no matter the time of day or weather. We use the same quality LEDs found in our rectangular rapid flashing beacons, and each sign is powered by Carmanah's robust solar or AC engine. This sign includes nighttime dimming, multiple flash pattern and intensity settings and ambient auto adjust.

### Easy Installation

Carmanah's LED Enhanced Signs are conveniently shipped pre-configured from the factory, and installation is quick and uncomplicated—dramatically reducing installation costs. Retrofitting can be done where existing sign bases are used to enhance these sites in minutes, and new installations can be completed without the cost of larger poles, new bases and trenching.

### Solar Sizing for Reliable Performance

Carmanah's LED Enhanced Flashing Signs are the most reliable and brightest signs on the market because we're experts at sizing-up solar. Using your sign settings and environmental factors at your location site, Carmanah's solar modeling tool produces a Solar Power Report and recommended product model that will provide dependable, year-after-year operation.

### Advanced LED Enhanced Sign Options

Our LED Enhanced Sign comes with an on-board user interface for quick configuration and status monitoring. It allows for simple in-the-field adjustment of flash pattern, duration, intensity, ambient auto adjust, night dimming and many more. An optional manual override switch or wireless connection for local or remote control are also available.



**MUTCD  
compliant**



**Buy America  
compliant**



**5-year solar  
engine warranty**



**3-year LED sign  
warranty**



**Solar-sized for  
every location**

# LED Enhanced Signs

## Data Sheet

1.844.412.8395 | traffic@carmanah.com | carmanah.com



### SIGN TYPES



**R1-1**  
Red LEDs



**R2-1**  
White LEDs



**W11-2**  
Yellow LEDs



**S1-1**  
Yellow LEDs



**W1-2**  
Yellow LEDs



**S5-1**  
White/Yellow LEDs



**R1-2**  
Red LEDs



**R5-1a**  
Red LEDs



**R3-2**  
White LEDs



**R5-1**  
White LEDs

\*Many sign shapes, sizes and configurations are available. Contact Carmanah for more information.

### SOLAR ENGINE MOUNTING

2.0" - 2.5" Perforated  
Square Pole Mount



2.38" - 2.88" Diameter  
Round Pole Mount



3.5" - 4.5" Diameter  
Round Pole Mount

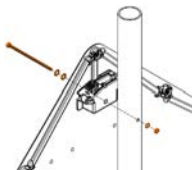


Side Pole  
Mount

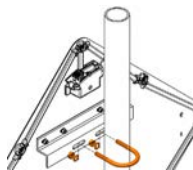


### LED SIGN MOUNTING

Through Bolt



U Bolt



Banding to Pole



### ACTIVATION OPTIONS

Activation	Standard operation is flashing 24 hrs./day
	Optional internal time clock for calendar programming
	Optional manual override switch allows local control of beacons
	Optional junction box: lockable, hinged door, corrosion-resistant aluminum enclosure allows easy calendar programming and access to manual override switch
	Pushbutton: ADA-compliant, piezo-driven with visual LED and two-tone audible confirmation
	Audible pushbutton station: ADA-compliant, piezo-driven with visual LED and customizable voice message confirmation

### SYSTEM SPECIFICATIONS

On-Board User Interface (OBUi)	Adjustable system settings with auto-scrolling LED display on our latest EMS
	System test, status, and fault detection: battery, solar, button, beacon, radio, day/night
	Flash patterns: RFB (WW+S), RFB1 (WW+S legacy), RFB2 (WSDOT), 0.5 sec. alternating (MUTCD), 0.5 sec. unison (MUTCD), 0.5 sec. x3 alternating (MUTCD), 0.1 sec. unison, 0.25 sec. unison, 0.1 sec. x3 quick flashes unison, 0.1 sec. x3 quick flashes alternating, steady on
	Input: momentary for pushbutton activation, normally open switch, normally closed switch, dusk-to-dawn operation
	Flash duration: 5 sec. to 1 hr.
	Intensity setting: 20 to 1400 mA for multiple LED enhanced signs
	Nighttime dimming: 10 to 100% of daytime intensity
	Ambient Auto Adjust: increases intensity during bright daytime
	Automatic Light Control: reduces intensity if the battery is extremely low
	Temperature correction: yellow or red LED enhanced signs
Optical	Calendar: internal time clock function
	Radio settings: enable/disable, selectable channel from 1 to 14
Sign Construction	Output: enabled when flashing daytime and nighttime, or nighttime only
	Activation counts and data reporting via OBUi or optional USB connection
Connectivity	Light intensity: 1,000,000 mcd minimum daytime
	Viewing angle: 15°
Power System	LEDs meet MUTCD optical requirements for color, flash rate and dimming
	MUTCD compliant: 2009 MUTCD, Chapter 2A, 2B, 2C, and 7B Signs
Energy Collection	3M High Intensity Prismatic or Diamond Grade retroreflective sheeting and components
	High-power LEDs in waterproof housings
Energy Storage	UV-resistant polycarbonate channels protect wiring; includes fully integrated junction box
	0.08-0.10" aluminum sign face with stainless steel hardware
Solar Engine Construction	Optional encrypted, wireless radio with 2.4 GHz mesh technology
	Optional radio allows calendar program, manual override switch, or input device from one system to remotely control other systems
Environmental	User-selectable multiple channels to group different signs and ensure a robust wireless signal
	Instantaneous wireless activation: <150 ms
Warranty	Wireless range: 1000 ft (305 m)
	Integrated, vandal-proof antenna
Activation	Solar or AC-powered
	AC: 100-240 VAC input, 6-14 AWG
Sign Construction	Replaceable AC-DC power supply, circuit breaker, terminal block wiring
	45 deg tilt for optimal energy collection
Energy Collection	Maximum Power Point Tracking with Temperature Compensation (MPPT-TC) battery charger for optimal energy collection in all solar and battery conditions
	Replaceable, recyclable, sealed, maintenance-free, best-in-class AGM batteries offer the widest temperature range and longest life
Energy Storage	Battery design life: +5 yrs.
	Tool-less battery change with quick connect terminals and strapping for easy installation
Solar Engine Construction	Weatherproof, gasketed enclosure with vents for ambient air transfer (NEMA 3R)
	Lockable, hinged enclosure for access to on-board user interface and batteries
Environmental	Optional padlockable latch
	Corrosion-resistant aluminum with stainless steel hardware
Warranty	Raw aluminum finish or yellow, black, or green powder coated
	Prewired to minimize installation time
Activation	High-efficiency optics and EMS = the most compact, lightweight system
	-40 to 165° F (-40 to 74° C) system operating temperature
Sign Construction	-40 to 140° F (-40 to 60° C) battery operating temperature
	<b>5-year limited on solar engine, 3-year limited on LED signs, 1-year limited on batteries</b>

Specifications subject to local environmental conditions, and may be subject to change.

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Document: Carmanah\_DATA\_LED-enhanced-signs\_RevC

**From:** [noreply@civicplus.com](mailto:noreply@civicplus.com)  
**To:** [Engineering Division](#)  
**Subject:** Online Form Submittal: Traffic Committee Request  
**Date:** Thursday, February 22, 2024 4:16:22 PM

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## Traffic Committee Request

### Traffic Request Form

**Please complete required fields and submit.**

Name	Lauren Ayles
Email Address	nylauren3@hotmail.com
Street Address	805 Forestdale
Phone Number	2489150261
Location of Concern	Forestdale Rd at Woodward Ave
Type of Issue	Sight distance
Detailed Description of Concern	<p>Parking is allowed on the north side of Forestdale up to the curve in the road, immediately before Woodward (indicated by red X on attached photo). These parking spaces are almost always utilized by large white vans, presumably owned by the Ford dealership). The presence of these vehicles blocks the sight line of oncoming traffic on Forestdale in both directions due to the curve of the road causing frequent near-misses for vehicles traveling on Forestdale.</p> <p>Additionally, there is often a large SUV parked in the parking spot identified by the red circle on the attachment, which is significantly longer than the parking space allows for and blocks the sight line of oncoming traffic for vehicles attempting to turn onto Woodward off of Forestdale, requiring that you pull up past the stop sign to be able to see.</p>
Proposed Solution	<ol style="list-style-type: none"><li>1. Eliminate at least two parking car lengths on the north side of Forestdale closest to Woodward.</li><li>2. Adjust parking space in lot on Woodward immediately south of Forestdale to Compact Car Only</li></ol>
Media Upload	<a href="#">Forestdale at Woodward.png</a>
Important	I have reviewed the Traffic Committee's Frequently Asked Questions (FAQ) regarding traffic requests and concerns

(Section Break)

### Neighborhood Support

Analyzing traffic requests can take a significant amount of staff time,

and we require neighborhood support for a particular issue before beginning review.

Please provide at least two neighbors' contact information, who are in agreement with your concerns or request. **They must be from separate households.** They will be notified if this item is brought to the Traffic Committee.

Name	Jason Betley
Address	801 Forestdale Rd
Email	Jmbetley331@gmail.com
Name	Rebecca Novack
Address	802 Forestdale Rd
Email	rebecca.novack3@gmail.com

Email not displaying correctly? [View it in your browser.](#)





## Transportation Improvement Association

### Forestdale - Woodward to Cambridge

**#1**    **Location:** WOODWARD (9.373) 0 feet Xof FORESTDALE RD    **Crash ID:** 2205857  
**Date:** 01/24/2021    **Day:** Sun    **Hour:** 2pm    **Weather:** snow    **Roadway:** snow    **Light:** day  
**Injy K:** 0    **Injy A:** 0    **Injy B:** 0    **Injy C:** 0    **Injy 0:** 2    **How:** angle  
**CVT:** Royal Oak    **Area:** w/i intersection    **HBD:** N    **Drugs:** N    **Complaint #:** 210002754

Unit#	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	N	right turn	veh in transpt	none	none	none	imprp turn	car	ctrfront
2	W	stop on road	veh in transpt	none	none	none	none	car	lftside

**UD10:** [2205857](#)

**#2**    **Location:** WOODWARD (9.371) 11 feet Wof FORESTDALE RD    **Crash ID:** 2547735  
**Date:** 03/15/2022    **Day:** Tue    **Hour:** 4pm    **Weather:** clear    **Roadway:** dry    **Light:** day  
**Injy K:** 0    **Injy A:** 0    **Injy B:** 0    **Injy C:** 0    **Injy 0:** 2    **How:** ss-same  
**CVT:** Royal Oak    **Area:** straight    **HBD:** N    **Drugs:** N    **Complaint #:** 220009501

Unit#	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	S	go straight	veh in transpt	none	none	none	imprp lane use	car	none
2	S	go straight	veh in transpt	none	none	none	none	car	lftside

**UD10:** [2547735](#)

**#3**    **Location:** FORESTDALE (0) 0 feet Xof WOODWARD AVE    **Crash ID:** 2885536  
**Date:** 04/29/2023    **Day:** Sat    **Hour:** 5pm    **Weather:** clear    **Roadway:** dry    **Light:** day  
**Injy K:** 0    **Injy A:** 0    **Injy B:** 0    **Injy C:** 1    **Injy 0:** 2    **How:** unknown  
**CVT:** Royal Oak    **Area:** w/i intersection    **HBD:** N    **Drugs:** N    **Complaint #:** 230015019

Unit#	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	S	go straight	veh in transpt	none	none	none	other	uncoded	none
2	W	stop on road	veh in transpt	none	none	none	none	car	rtfront

**UD10:** [2885536](#)

## Crash Type

Count	Type
0	uncoded
0	single
0	head-on
0	head-on/lt
1	angle
0	rr-end
0	rr-end/lt
0	rr-end/rt
1	ss-same
0	ss-opp
0	back
0	other
1	unknown
<b>Totals</b>	<b>3</b>

## Lighting Conditions

Count	Type
0	uncoded
3	day
0	dawn
0	dusk
0	dark/ltd
0	dark/unltd
0	other
0	unknown
<b>Totals</b>	<b>3</b>

## Weather Conditions

Count	Type
0	uncoded
2	clear
0	cloudy
0	fog
0	rain
1	snow
0	wind
0	sleet/hail
0	blowing snow
0	blowing sand
0	smoke
0	unknown
<b>Totals</b>	<b>3</b>

## Road Condition

Count	Type
0	uncoded
2	dry
0	wet
0	ice
1	snow
0	mud
0	slush
0	debris
0	water
0	sand
0	oily
0	other
0	unknown
<b>Totals</b>	<b>3</b>

## Crashes by Month

Count	Type
1	January
0	February
1	March
1	April
0	May
0	June
0	July
0	August
0	September
0	October
0	November
0	December
<b>Totals</b>	<b>3</b>

## Hazardous Action

Count	Type
3	none
0	speeding
0	spd too slow
0	failed to yield
0	disrgd traffic cntrl
0	wrong way
0	left of center
0	imprp passing
1	imprp lane use
1	imprp turn
0	imprp/no signal
0	imprp backing
0	unable to stop
1	other
0	unknown
0	reckls driving
0	carels driving
<b>Totals</b>	<b>6</b>

## Unit Type

Count	Type
1	Bicyclist
0	Engineer
5	Vehicle
0	Pedestrian
<b>Totals</b>	<b>6</b>

## Crashes by Year

Count	Type
1	2021
1	2022
1	2023
<b>Totals</b>	<b>3</b>

## Crash Severity

	Fatal	A	B	C	No Injy	Total
Persons	0	0	0	1	0	1
Crashes	0	0	0	1	2	3

## Alcohol in Crashes

	Fatal	A	B	C	PDO	Total
Drinking	0	0	0	0	0	0
Not Drinking	0	0	0	1	2	3
Totals	0	0	0	1	2	3

## Crashes per Hour by Day

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Total
12a-1a	0	0	0	0	0	0	0	0
1a-2a	0	0	0	0	0	0	0	0
2a-3a	0	0	0	0	0	0	0	0
3a-4a	0	0	0	0	0	0	0	0
4a-5a	0	0	0	0	0	0	0	0
5a-6a	0	0	0	0	0	0	0	0
6a-7a	0	0	0	0	0	0	0	0
7a-8a	0	0	0	0	0	0	0	0
8a-9a	0	0	0	0	0	0	0	0
9a-10a	0	0	0	0	0	0	0	0
10a-11a	0	0	0	0	0	0	0	0
11a-12p	0	0	0	0	0	0	0	0
12p-1p	0	0	0	0	0	0	0	0
1p-2p	0	0	0	0	0	0	0	0
2p-3p	1	0	0	0	0	0	0	1
3p-4p	0	0	0	0	0	0	0	0
4p-5p	0	0	1	0	0	0	0	1
5p-6p	0	0	0	0	0	0	1	1
6p-7p	0	0	0	0	0	0	0	0
7p-8p	0	0	0	0	0	0	0	0
8p-9p	0	0	0	0	0	0	0	0
9p-10p	0	0	0	0	0	0	0	0
10p-11p	0	0	0	0	0	0	0	0
11p-12a	0	0	0	0	0	0	0	0
Totals	1	0	1	0	0	0	1	3