

RESOLUTION #19-0617-03

Authorize Expenditure for the Purchase and Installation of "Your Speed" Flashing signs at Old Sawmill and Presidential

WHEREAS, traffic safety has been an on-going concern, with numerous accidents occurring, at the intersections of Old Sawmill and Presidential and Old Sawmill and Attucks, and

WHEREAS, the installation of flashing "Your Speed" signs has been proven to reduce speed and raise safety awareness, and

WHEREAS, while more long-term safety improvements must be studied and considered, the installation of flashing "Your Speed" signs will help to improve safety by reducing speed and raising awareness of safety issues, and

WHEREAS, should future long-term improvements be made, these signs may be moved to other needed locations.

NOW, THEREFORE BE IT RESOLVED BY THE BOARD OF TRUSTEES OF LIBERTY TOWNSHIP, DELAWARE COUNTY, OHIO to authorize the Parks & Roads Services Superintendent to expend funds payable to Tapco, 5100 West Brown Deer Road, Brown Deer, WI, 53223, in an amount not to exceed \$11,254.50 for the purchase of four (4) "Your Speed" signs and two (2) flashing stop signs for installation at the north and south bound lanes on Old Sawmill Parkway at Attucks Road and Presidential Parkway as recommended by the Delaware County Engineer's Office traffic study.

Motion made by Melanie Leneghan and seconded by Mike Gemperline
Vote: Yes Mrs. Eichhorn Yes Mr. Gemperline Yes Mrs. Leneghan

This Resolution shall be in force and become effective immediately upon its execution.

June 17, 2019

Date

CERTIFIED BY:

Nancy Denutte
Nancy Denutte, Fiscal Officer

Melanie Leneghan
Melanie Leneghan, Trustee

Mike Gemperline
Mike Gemperline, Trustee

Shyra Eichhorn
Shyra Eichhorn, Trustee

Dear Mayor or City Manager,

Did you know that excessive speeding is a factor in approximately one third of all traffic fatalities, and 86% of these accidents happen on non-interstate roadways? Whether it's an entrance to your town with a drop in the speed limit, a school zone on a main street, or a residential area your department often receives complaints about, most communities have vulnerable areas susceptible to excessive speeding, and law enforcement officers just cannot be there all the time.

Whatever your budget or speeding situation, there is an Evolis Radar Speed Sign for you! With over 17,000 units installed worldwide, the Evolis by Elan City has become the global leader in traffic calming, and it's easy to see why.

The Evolis is the only radar speed sign with a tri-color speed display and customizable messages, grabbing drivers' attention for a proven 25% reduction in speed. These standout features mean that drivers actually notice the signs and are much more likely to slow down. Residents love them because they are the only radar speed signs that say "THANK YOU."

If you are looking for a budget-friendly option, look no further than the Evolis XL. With its 16" digits and 3 rows of ultrabright amber LEDs, you get maximum impact at a minimum price. Don't be fooled by the name though: at under 19 lbs, the XL is easily portable and installation is a breeze!

Both the Evolis and Evolis XL come as all-inclusive packs: choose from solar, fully battery-powered or AC packs. Each pack includes FREE bi-directional traffic data collection and user-friendly software to create quick, comprehensive, and easy-to-interpret traffic reports.

The TWIN PACK SPECIAL is back by popular demand for a limited time only - do not miss out on this exclusive opportunity to invest in your community's safety:

2 EVOLIS all-inclusive packs for \$5499 or 2 XL packs for \$4999!
<https://www.radar-speed-signs.com/request-a-quote/> **PROMO CODE: TPS19**

We look forward to hearing from you soon!

The Elan City Team


SALES QUOTE
Customer Copy

Number	Q1908658
Date	5/13/2019
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5100 West Brown Deer Road • Brown Deer, WI 53223
 Phone (800) 236-0112 • tapconet.com • Fax (800) 444-0331

Sell To Cust. C67621	Township of Liberty Andy Curmode 10104 Brewster Lane POWELL, OH 43065 USA	Ship To Cust.	Township of Liberty 10104 Brewster Lane POWELL, OH 43065 USA		
Customer PO #	Expires	Slsp	Terms	Freight	Ship Via
BLINKERSTOPPS/RADA R FEEDBACK	6/12/2019	Nick Mayer	Net 30 DAYS	PREPAY/ADD	BEST RATE

Item	Description	Quantity	UM	Price	Extension
2180-00209	Blinkersign, R1-1, 30", Stop, DG3, Red, Solar, 8 Red LEDs, Single Post Mount	2	EA	1,200.00	\$2,400.00
2438-00001	Sign Mounting Kit, Square/U-Channel, Anti-Vandal For Mounting One Blinker Sign to 2" Sq & U-Channel	2	EA	15.75	\$31.50
138840	EV 11" Radar Feedback Sign, YOUR SPEED ,20W Solar,HIP White Face,23"x29",BluetoothReady	4	EA	2,205.75	\$8,823.00

Plus Shipping and Handling

For Radar Signs Only

BlinkerSigns Ship Free

Lead Time: 2 Weeks

Furnish only quote. Installation is not included.
 Solar powered equipment requires no shading
 or obstructions

Shipment within _____
 Acceptance By _____
 Date _____
 By _____

Merchandise	Freight	Tax	Total
\$11,254.50	\$0.00	\$0.00	\$11,254.50

For terms and conditions, please visit: <http://www.tapconet.com/terms-and-conditions>



Delaware County Engineer

Chris Bauserman, P.E., P.S.

MEMORANDUM

Date: August 8, 2018
To: Douglas Riedel, P.E., Township Liaison
From: Mike Love, P.E. Senior Traffic Engineer
RE: Sawmill Road (TR 119) Traffic Evaluation and Recommendation

Background:

A study of "Old" Sawmill Road (Township Road 119) was requested by Liberty Township, with recommendations to be provided for various traffic calming and safety improvements that are feasible within the corridor.

Study Limits:

Sawmill Road extending from Bradford Court to Powell Road/Olentangy Avenue (SR 750).

Crash History:

The 2015-17 crash history was analyzed in the study limits. A total of 29 crashes occurred during the 3 year period; 15 involved injuries and 14 involved property damage only. There were 0 fatal crashes.

Almost 2/3 of the crashes occurred at two intersections; Sawmill Road & Presidential Parkway and Sawmill Road & Attucks Drive/Grey Oaks Drive.

- Sawmill Road @ Presidential Drive
 - 11 crashes
 - 3 property damage only and 8 injury
- Sawmill Road @ Attucks Drive/Grey Oaks Drive
 - 9 crashes
 - 6 property damage only and 3 injury

No other crash trends were identified.

Physical Conditions:

The pavement surface condition, cross slope and lane width are all in excellent condition and meet required ODOT Location and Design (L&D) standards. Stopping sight distance on the mainline of Sawmill Road (TR 119) is unobstructed at a speed of 35 mph.

Intersection sight distance (ISD) does not appear to be impaired at any intersection except for westbound Presidential Parkway, which is partially obstructed from the stop line location, although fully ISD appears to be available from the location identified in the L&D manual and meets minimum requirements.

Analysis:

Traffic Volumes:

Traffic volume on Sawmill Road collected on 6/29/2017 shows the following ADT

- North of Presidential = 7,162
- South of Presidential = 6,720
- North of Bradford Court = 4,808

Traffic volumes on Sawmill Road will be collected mid-August 2018 and will supplement this memo. We do not anticipate a significant deviation in the volumes, but will update if necessary.

Sawmill Road at Presidential Parkway:

Based on June 2107 count data, the 4-way stop warrants per the Ohio Manual of Uniform Traffic Control Devices (OMUTCD) are not met. There isn't enough traffic on Presidential Parkway (54 vehicles per hour (vph) vs. 200 vph required) so a multi-way stop is not advisable.

Warrant volumes for a traffic signal are higher than a multiway stop so the warrants aren't met.

Sawmill Road at Attucks Drive/Grey Oaks Drive:

Based on previous study, the 4-way stop warrants per the OMUTCD are not met.

Speed:

The 85% speed on Sawmill Road is approximately 50mph. The posted speed is (not yet journalized in the unincorporated area) 35mph.

Recommendations:

Short Term (0-1 years):

Request ODOT reduction of speed limit and journalization of 35 mph for entire portion of Sawmill Road in the unincorporated area. Cost estimated to be less than \$750 for sign installation.

Provide enhanced enforcement of the speed limit (after journalized).

Incorporate the changes to the intersection of Sawmill Road and Presidential Parkway per the City of Powell's sketch from December 2017.

Add "Cross Traffic Does Not Stop" signs eastbound and westbound at the intersection of Sawmill Road and Attucks Drive/Grey Oaks Drive. Cost estimated to be less than \$200.

Update the pavement markings at the intersection on Presidential Parkway (both approaches), Attucks Drive and Grey Oaks Drive. Cost estimated to be \$5,000 - \$7,500.

Evaluate the all-way stop at the intersection of Sawmill Road and Bradford Court.

Medium Term (1-3 years):

Install solar powered "Your Speed" driver feedback signage at 2 locations on Sawmill Road. Cost estimated to be \$30,000 for four (4) signs; 2 northbound and 2 southbound. Signs are removable and can be relocated to another location after long term improvements are made.

Long Term (4+ years):

Sawmill Road/Presidential Parkway and Sawmill Road/Attucks Drive/Grey Oaks Drive:

Construct single-lane roundabouts at these two (2) intersections. Based on the crash history at these intersections, modern roundabouts would be the most effective, proven crash countermeasure. The traffic volumes are in the range that can be accommodated by single-lane roundabouts. In addition, roundabouts provide the added benefit of traffic calming by discouraging high speeds in the corridor.

For planning and budgeting purposes, the estimated construction cost for a single-lane roundabout at \$1,350,000, with an additional \$250,000 in engineering costs and \$100,000 in right-of-way acquisition, for a total project cost of about \$1.7 million for each intersection. Additional analysis/study would be needed to determine a more refined cost estimate and impacts to adjacent properties.

Funding:

For short and medium term improvements, local funds are advisable.

For long term improvements, based on the relatively low crash rate at these intersections (relative to high crash locations in Ohio), it is unlikely that either intersection would qualify for federal Highway Safety Improvement Program (HSIP) funding through ODOT or Surface Transportation Program (STP) funds through MORPC.

The most likely source of outside funding is Ohio Public Works Commission (OPWC) funds. Grants are typically limited to about \$500,000 per project. These intersections would be good candidates for OPWC funding based on the fact that these projects would address the crash history at each intersection.

Summary:

Sawmill Road is a multi-jurisdictional road, with segments located inside and outside of the City of Powell.

The Sawmill Road/Presidential Parkway intersection jurisdiction has 3 of 4 legs (75%) in Liberty Township and 1 of 4 legs (25%) in the City of Powell (the east leg is in the City).

The Sawmill Road/Attucks Drive/Grey Oaks Drive intersection is 3/8 (37.5%) in Liberty Township jurisdiction and 5/8 (62.5%) in City of Powell jurisdiction.

All recommended improvements should be coordinated between Liberty Township and the City of Powell.