

PUBLIC WORKS MEMORANDUM
#30-2022

DATE: June 27, 2022
TO: Honorable Mayor Meredith Leighty and City Council Members
THROUGH: Heather Geyer, City Manager *Hmg*
FROM: Kent Kisselman, PE – Director of Public Works *KHK*
SUBJECT: Irma Drive and Malley Drive Vehicular and Pedestrian Safety

PURPOSE

To discuss options to improve vehicular and pedestrian safety at the intersection of Irma Drive and Malley Drive.

BACKGROUND

Staff evaluated traffic conditions at the intersection of Malley Drive and Irma Drive after receiving concerns from Ward 2 Council members and residents. Traffic volume and accident data were collected, along with observations of drivers' behavior at the intersection. The following summarizes the information obtained:

- The intersection has an average daily traffic of 3,050 vehicles per day.
- Between 2019 and 2021, 10 vehicle accidents were recorded.
- Based on physical observations and drone video, most drivers do not come to a complete stop.
- 22 stop sign citations were issued in March 2022.

Various alternatives to increase visibility and encourage greater compliance at the intersection are presented in Attachment 1. These solutions range in cost from \$8,000 to \$150,000. The goal is to have greater compliance of vehicles at the intersection. Staff believes raised crosswalks would be the best alternative since it encourages greater compliance by making drivers slow down. See Attachment 2 for detail and estimate.

Staff will present a video of the intersection at the City Council meeting.

BUDGET/TIME IMPLICATIONS

This project is not currently budgeted. Funds in the amount of \$250,000 are available in the Traffic Calming Account in the 2022 Capital Projects Fund.

	Amount
Capital Projects Fund	\$250,000
Raised crosswalks	(\$99,801)
Budget Remaining	\$150,199

This project would be bid out for completion if Council directs staff to move forward with the project.

STAFF RECOMMENDATION

Staff is requesting direction from City Council on the proposed improvements.

Irma Drive and Malley Drive Vehicular and Pedestrian Safety

June 27, 2022

Page 2 of 2

STAFF REFERENCE

If Council members have any questions, please contact Kent Kisselman, Director of Public Works, at kkisselman@northglenn.org or 303.450.4005.

ATTACHMENTS

1. Alternative options
2. Raised crosswalk detail and estimate

Attachment 1

Alternative Options:

Installing LED Stop Signs

Est Cost: \$8,000

Pros

Increase Stop Sign Visibility

Cons

Lights may be distressing to homes nearby. Lights by law have to be on 24/7 and cannot be switched on/off.

LED Lights have not had supporting evidence of increased compliance at stop signs.

Installing Residential Traffic Signal

Est Cost: \$80,000-\$150,000

Pros

Controls intersection movements

Can install visors to block some light into homes

Cons

Would require placing signal bases in resident's lawns (but should be in our ROW)

Requires directional boring for traffic utilities (avoids trenching).

Requires power pedestal install

Proposal needed to determine total cost

Removing Stop Signs from Irma Dr NB & SB

Est Cost: \$0, City Staff Labor

Pros

Allows Irma Dr traffic to flow freely as the main collector

Cons

Removes decision making from drivers to who has the right of way

Would not slow vehicles down at intersection (recommend following up with possible traffic calming measures)

Install RRFB Crosswalk across Irma Dr

Est Cost: \$10,000

Pros

Informs drivers of pedestrian presence

Cons

Would require placing signal bases in resident's lawns (but should be in our ROW)

Placing Rubber Speed Cushions in Intersection

Est Cost: \$25,000 (may be re-used for future projects)

Pros

Encourages greater slowdown for smaller vehicles

Cons

Would most likely not change driver behavior during rolling stops

Installing a Raised Crosswalk

Est Cost: \$50,000

Pros

Encourages greater slowdown

Cons

Would most likely not change driver behavior during rolling stops

Bid Summary

Vendor:

Hereby submits to the City of Northglenn, Colorado the following bid items complete and in place as specified for the:
 Irma Dr & Malley Dr Intersection Improvements Estimate - IFB 2022-###

Item No.	Description	Quantity	Unit	Unit Cost	Total Cost
Community Center Drive					
1	Mobilization & Demobilization	1	LS	\$ 5,888.00	\$ 5,888.00
2	Traffic Control	1	LS	\$ 3,680.00	\$ 3,680.00
3	ADA Ramp	6	EA	\$ 3,700.00	\$ 22,200.00
4	Raised Crosswalk	3	CY	\$ 16,000.00	\$ 48,000.00
5	Crosspan	20	SY	\$ 170.00	\$ 3,400.00
Irma Dr & Malley Dr Intersection Improvements					\$ 83,168.00
			Contingency 20%	\$	16,633.60
Total Irma Dr & Malley Dr Intersection Improvements					\$ 99,801.60