

ATTACHMENT A – 2024 Vision Zero Safety Improvements

Section 1. HOT SPOT IMPROVEMENTS

#	Ward	Location	Proposed Measures	Expected Outcome	Est. Cost
1.1	3	Kingsway Dr at Greenfield Ave	-Install a pedestrian refuge island in the painted median to supplement the proposed PXO. Build connections to existing sidewalks.	-Improve safety for pedestrians crossing Kingsway Dr -Established consistency with the existing PXO and refuge island located approximately 200m north.	\$7,000
1.2	4	Green Valley Dr between Mill Park Dr & Pioneer Dr	- Install one speed hump at Pioneer Park	- Reduction in operating speeds - Improve safety for all street users	\$6,000
1.3	4	Apple Ridge Dr between Doon Mills Dr and Forest Creek Dr	- Install four speed humps at the following locations: Apple Ridge Dr in the JW Gerth school zone; Apple Ridge Drive approximately 20m south of Woodfield St; Apple Ridge Dr approximately 50m north of Ridgemere St; Apple Ridge Dr approximately 50m south of Oakdale Ct.	- Reduction in operating speeds - Improve safety for all street users	\$24,000
1.4	4	Forest Creek Dr between Apple Ridge Dr and Robert Ferrie Dr	- Install two speed humps at the following locations: Forest Creek Dr at Forest Creek Park; Forest Creek Dr approximately 100m east of Apple Ridge Dr.	- Reduction in operating speeds - Improve safety for all street users	\$12,000
1.5	4	Bechtel Dr school zone	- Install one speed cushion in the St. Timothy's Catholic Elementary School zone	- Reduction in operating speeds - Improve safety for all street users	\$12,000
1.6	4	Caryndale Drive school zone (previously approved)	- Install one speed hump in the Brigadoon Public School zone	- Reduction in operating speeds - Improve safety for all street users	\$6,000
1.7	5	David Bergey Drive	-Install one speed cushion on David Bergey Drive between the existing mid-block narrowings	- Reduction in operating speeds - Improve safety for all street users	\$12,000
1.8	6	Intersection of Strasburg Rd and Old Country Dr (Ward 6)	-Reconfigure and simplify the all-way-stop control intersection by removing the left turning lanes. -Narrow the pavement width.	-Improved traffic flow for highest volume movement. -Reduction in conflicts by simplifying the intersection configuration and reducing turning radii.	\$72,000

			-Improve existing bike lanes at the intersection.	- Decrease crossing distance for pedestrians.	
1.9	6	Erinbrook Drive	-Install one speed hump at the trail crossing near Goundry Cres.	- Reduction in operating speeds - Improve safety for trail users crossing Erinbrook Dr.	\$6,000
1.10	7	Bankside Dr between Eastforest Trail & Westforest Trail	- Install two speed cushions and one speed hump at the following locations: Bankside Dr approximately 250m from Westforest Trail; Bankside Dr between Bankside Cres and Bankside Cres; Bankside Dr at Bankside Park;	- Reduction in operating speeds - Improve safety for all street users	\$30,000
1.11	7	Trussler Rd between Ira Needles Blvd and Highland Rd. W	- Install two speed cushions and one speed hump at the following locations: Trussler Rd approximately 100 meters west of Cora Dr; Trussler Rd approximately 100 meters east of Waldau Cres; Trussler Rd at the Waldau Woods Trail entrance.	- Reduction in operating speeds - Improve safety for all street users	\$30,000
1.12	7	Queen's Blvd between Westheights Dr and Elm Ridge Dr	-Install a pedestrian refuge island between Westheights Dr and Elm Ridge Dr at the Sandrock Greenway Trail	-Improve safety for pedestrians crossing at the Sandrock Greenway Trail	\$7,000
1.13	8/9	Homer Watson Blvd between Hoffman St and Stirling Ave S	-Install a pedestrian refuge island between Stirling Ave S and Hoffman St in the existing median to supplement the proposed boulevard multi use trail improvements at Meinzinger Park.	-Improve safety for pedestrians crossing Homer Watson Blvd from the Shoemaker Greenway trail to Meinzinger Park.	\$7,000
1.14	9	West Ave between Victoria St S and Highland Rd W	- Install two speed cushions at the following locations: West Ave approximately 200m from Victoria St S; West Ave between Brock St and Homewood Ave. - Upgrade the existing Type D PXO at the Iron Horse Trail to a Type C by installing flashing beacons.	- Reduction in operating speeds - Improve safety for Iron Horse Trail users using the existing PXO to cross West Ave	\$39,000
1.15	9	Strange St between Cherry St and Dominion St	-Install two speed cushions at the following locations: Strange St between Cherry St and Waverly Rd; Strange St in the St. John's Catholic School zone.	- Reduction in operating speeds - Improve safety for all street users	\$24,000

Section 2. FORMAL TRAFFIC CALMING

#	Ward	Location	Proposed Measures	Expected Outcome	Est. Cost
2.1	10	Dumfries Ave between Edna St and Stirling Ave N	-Install five speed humps along Dumfries Ave between Edna St and Stirling Ave N. This formal traffic calming plan was approved by Council in April 2024 through staff report DSD-2024-122.	- Reduction in operating speeds - Improve safety for all street users	\$30,000

Section 3. PEDESTRIAN CROSSOVERS (PXO)

#	Ward	Location	Proposed Measures	Expected Outcome	Est. Cost
3.1	3	Kingsway Dr at Greenfield Dr	PXO Type C	-Provides a protected crossing for pedestrians accessing Fairview Mall and ION LRT station	\$25,000
3.2	8/9	Belmont Ave W at the Henry Sturm Greenway	PXO Type B	-Provides a protected crossing for Henry Sturm Greenway trail users and establishes consistency with other crossings along this trail corridor.	\$28,000
3.3	8	Lawrence Ave at the Henry Sturm Greenway	PXO Type D	-Provides a protected crossing for Henry Sturm Greenway trail users and establishes consistency with other crossings along this trail corridor	\$3,000
3.4	9	Park St & Mt Hope St	PXO Type C	-Provides a protected crossing for pedestrians accessing Grand River Hospital, King Street W, and the ION LRT station	\$20,000

Section 4. COMPLETE STREETS RECONSTRUCTION PROJECTS

#	Ward	Location	Proposed Measures	Expected Outcome	Est. Cost
4.1	1	Frederick St from Victoria St N to Bruce Street	-Narrowed pavement widths, smaller turning radii, separated cycling infrastructure, continuous sidewalks, and wider boulevards	- Reduction in operating speeds - Improve safety for all street users	Funded by Engineering Capital Account
4.2	1	Sherwood Avenue from Rosemount Dr to Becker St	-Narrowed pavement widths, smaller turning radii, wider boulevards and sidewalks	- Reduction in operating speeds - Improve safety for all street users	Funded by Engineering Capital Account
4.3	1	Fife Ave, Ann St, Becker St	-Narrowed pavement widths, smaller turning radii, wider boulevards and sidewalks	- Reduction in operating speeds - Improve safety for all street users	Funded by Engineering Capital Account

4.4	2	Wayne Drive & Conway Drive	-Narrowed pavement widths, smaller turning radii, wider continuous sidewalks, wider boulevards	- Reduction in operating speeds - Improve safety for all street users	Funded by Engineering Capital Account
4.5	3	Wilson Ave from North End to Fairlawn Road	-Narrowed pavement widths, smaller turning radii, separated cycling infrastructure, continuous sidewalks, wider boulevards and sidewalks	- Reduction in operating speeds - Improve safety for all street users	Funded by Engineering Capital Account
4.6	8	Admiral Rd, Marlborough Ave, Roxborough Ave	-Narrowed pavement widths, smaller turning radii, wider boulevards and sidewalks	- Reduction in operating speeds - Improve safety for all street users	Funded by Engineering Capital Account
4.7	8	Lawrence Ave from Karn St to Victoria St S	-Narrowed pavement widths, smaller turning radii, wider boulevards and sidewalks	- Reduction in operating speeds - Improve safety for all street users	Funded by Engineering Capital Account
4.8	9	Patricia Ave from Highland Rd to Queen's Blvd	-Narrowed pavement widths, smaller turning radii, wider boulevards and sidewalks	- Reduction in operating speeds - Improve safety for all street users	Funded by Engineering Capital Account
4.9	10	East Ave from Frederick St to Krug St	-Narrowed pavement widths, smaller turning radii, separated cycling infrastructure, continuous sidewalks	- Reduction in operating speeds - Improve safety for all street users	Funded by Engineering Capital Account

Section 5. SIDEWALK / MULTIUSE TRAIL INFILL

#	Ward	Location	Proposed Measures	Expected Outcome	Est. Cost
5.1	6	Highbrook Crescent and Block Line Rd	Approximately 50m of sidewalk infill.	Connect Block Line Rd sidewalks to Highbrook Park and existing trail system.	\$30,000
5.2	8	Gage Ave between Belmont Ave W and the Iron Horse Trail	Approximately 50m of boulevard multi use trail	Connect the Iron Horse Trail to Belmont Ave cycling lanes and sidewalks	\$67,000
5.3	8	Homer Watson Blvd between Hoffman St and Meinzinger Park	Approximately 80m of boulevard multi use trail	Connect the existing trail network along the Meinzinger Park frontage.	\$44,000
5.4	10	Mansion Ave between Edna St and Indiana St	Approximately 160m of sidewalk infill	Connect Mansion Street sidewalk to Edna Street sidewalk along the Weber Park frontage	\$47,000
5.5	10	College Ave south of Weber St W	Approximately 40m of sidewalk infill	Connect College Street sidewalk to Weber Street sidewalk along the St. Louis Campus.	\$24,000

Section 6. SEASONAL TRAFFIC CALMING - 2024 EXPANSION

#	Ward	Location	Proposed Measures	Expected Outcome	Est. Cost
6.1	All Wards	Various locations – 40 additional seasonal narrowings	Four (4) additional seasonal narrowings per ward. Each seasonal narrowing requires three (3) flexible bollards, for a	- Reduction in operating speeds - Raise driver awareness in neighbourhoods.	\$35,000 (as approved in the 2024 budget cycle)

			total of 120 (40x3) additional flexible bollards.		
6.2	All Wards	Various locations – 10 solar powered radar feedback boards	One (1) semi-permanent, solar powered, radar feedback board, per ward.	- Reduction in operating speeds - Raise driver awareness in neighbourhoods.	\$60,000 (as approved in the 2024 budget cycle)
Section 7. AUTOMATED SPEED ENFORCEMENT – SCHOOL ZONES					
#	Ward	Location	Proposed Measures	Expected Outcome	Est. Cost
7.1	2	Sunnyside Public School, 1042 Weber St E	Automated Speed Enforcement Camera	- Reduction in operating speeds - Improve safety for all street users	Funded by Region of Waterloo
7.2	2	Lackner Woods Public School, 151 Zeller Dr	Automated Speed Enforcement Camera	- Reduction in operating speeds - Improve safety for all street users	Funded by Region of Waterloo
7.3	8	Westmount Public School, 329 Glasgow Rd	Automated Speed Enforcement Camera	- Reduction in operating speeds - Improve safety for all street users	Funded by Region of Waterloo
7.4	9	Courtland Ave Public School, 107 Courtland Ave	Automated Speed Enforcement Camera	- Reduction in operating speeds - Improve safety for all street users	Funded by Region of Waterloo
7.5	10	St. Annes Catholic School, 250 East Ave	Automated Speed Enforcement Camera	- Reduction in operating speeds - Improve safety for all street users	Funded by Region of Waterloo