

Project: 834250 - Advance Dilemma Zone Detection Phase 2 - Highway Safety Improvement Program

Category:	Capital	Project Type:	Traffic and Transportation	Project Manager:	Bennett Chun
Year Identified:	2019	Project Phase:	Underway	Project Coordinator:	Carmen Talavera
Est. Completion Year:	2021/22	Department:	250 - Public Works	Fund - Sub-Fund:	3101 - General Fund Assets Subfund

Project Description/Scope/Purpose:

This project will provide advanced dilemma-zone detection at 16 signalized intersections identified in a citywide collision analysis. Advanced dilemma-zone detection systems modify traffic control signal timing to reduce the number of drivers that may have difficulty deciding whether to stop or proceed during a yellow phase. This may reduce rear-end crashes associated with unsafe stopping and angle crashes due to illegally continuing into the intersection during the red phase. This project provides funding for Design in FY 2020/21 and Construction in FY 2021/22 to install video detection equipment at 16 locations citywide to provide advance dilemma zone detection.

Project Evaluation and Analysis:

The project was identified from citywide collision analysis. The project intersections showed a very heavy concentration of collisions, including a fatality. Installation of dilemma zone devices will enhance the safety at these locations. For signalized intersections that demonstrated a very heavy concentration of collisions, most of which were broadside, rear end, or side swipe, the highest identified collision factor was found to be unsafe speed. All these collision types and factors can be mitigated, and safety enhanced, by implementing advanced dilemma-zone detection.

Fiscal Impact:

Federal Highway Safety Improvement Program (HSIP) grant funds cover 100% of the project design and construction.

Funding Sources:

Highway Safety Improvement Program (HSIP) Grant in the Capital Projects/General Assets Sub-Fund

Plans and Goals:

LT - Land Use and Transportation - LT-1: Coordinated Regional and Local Planning

Project Financial Summary

	Project Costs	Revenues	Transfers In	Operating Costs
Prior Actual	130,889	1,207	-	-
2021 - 22	1,167,111	1,296,793	-	-
2022 - 23	-	-	-	-
2023 - 24	-	-	-	-
2024 - 25	-	-	-	-
2025 - 26	-	-	-	-
2026 - 27	-	-	-	-
2027 - 28	-	-	-	-
2028 - 29	-	-	-	-
2029 - 30	-	-	-	-
2030 - 31	-	-	-	-
2031 - 32	-	-	-	-
2032 - 33	-	-	-	-
2033 - 34	-	-	-	-
2034 - 35	-	-	-	-
2035 - 36	-	-	-	-
2036 - 37	-	-	-	-
2037 - 38	-	-	-	-
2038 - 39	-	-	-	-
2039 - 40	-	-	-	-
2040 - 41	-	-	-	-
2041 - 42	-	-	-	-
20 Year Total	-	-	-	-
Grand Total	1,298,000	1,298,000	-	-