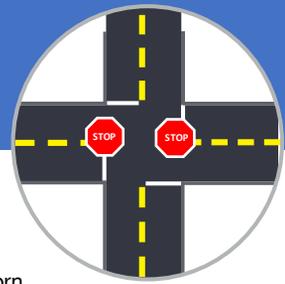


Case Study Sheet: Location #1



Project Name: Riverside LRSP
Agency Name: City of Riverside
Contact Name: Brett Craig, PE, TE, Senior Traffic Engineer
Email: bcraig@riversideca.gov

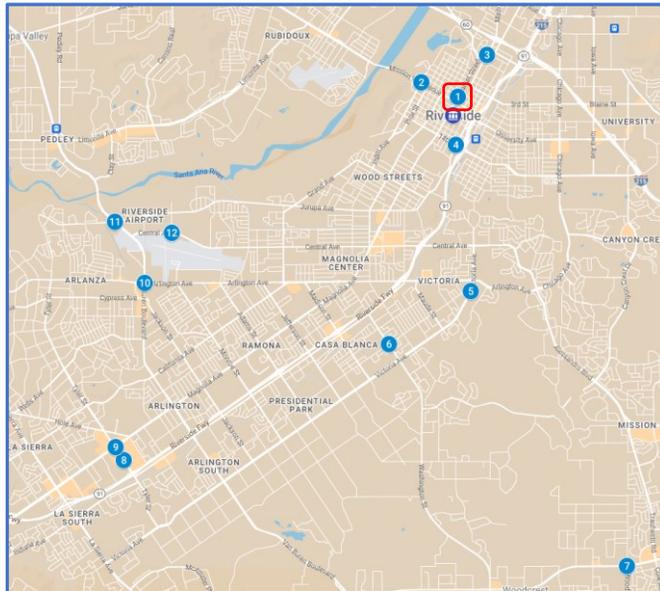
Prepared by: Kimley-Horn
Checked by: Jason Melchor, PE
Date: October 2022

HAWK SIGNAL INTERSECTION

Project Location, Description & Maps

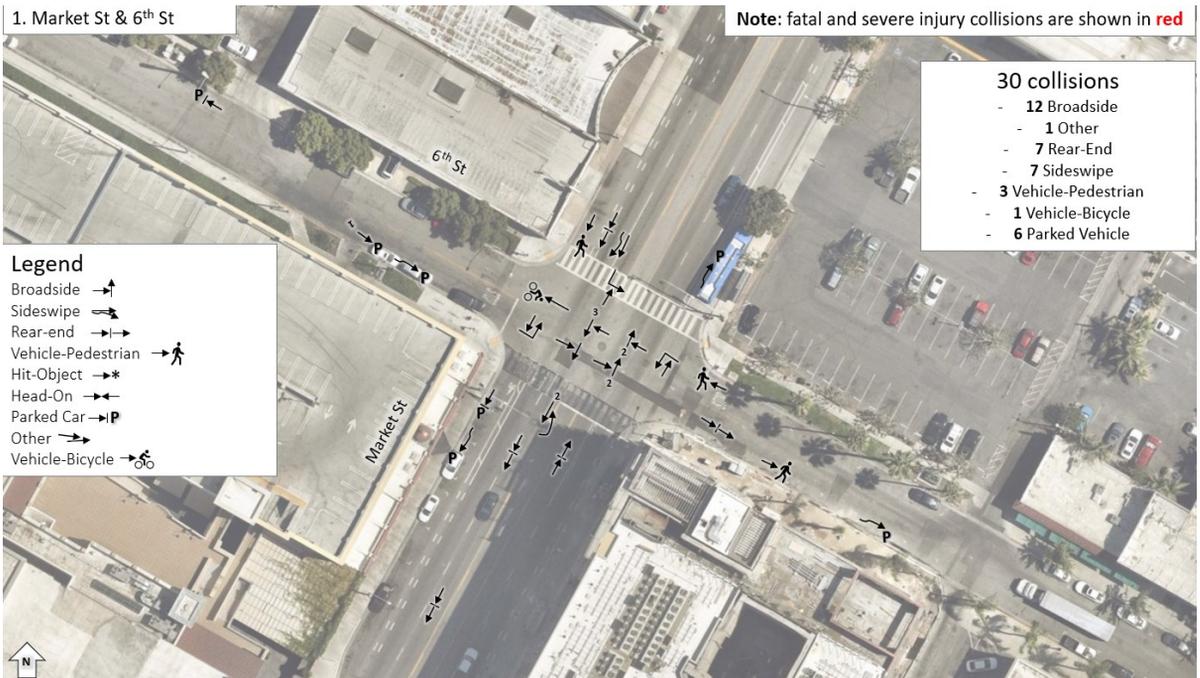
Intersection: Market St & 6th St

Example of Similar Intersections: Market St & 11th St, Brockton Ave & 12th St



1. Market St & 6th St

Note: fatal and severe injury collisions are shown in red



Project Location, Description & Maps

Collision Data	
Total Collisions	30
Fatal and Severe Injury Collisions	0
Top 3 Collision Types (%)	Broadside (40%) Sideswipe (23%) Rear-End (23%)
Dark Collisions	11
Impaired Collisions	0

Collision Data	
Number of Approaches	4
Total Entering Vehicles	25,524
Crosswalk Condition	Good
Control Type	Hawk Signal
Lighting	Well Lit
Highest Posted Speed Limit	35

Collisions Involved With		
Vehicular	Pedestrian	Bicycle
26	3	1

Field Visit Notes

- HAWK signal present
- Lots of construction going on nearby
- Several pedestrian collisions here

Countermeasure Evaluation

Potential Countermeasures	Crash Reduction Factor (LRSM/CMF ID)	20 Year Safety Benefit	Total 20-Year Costs	Safety Related B/C Ratio
Install signals	30% (NS03)	\$475,440	\$378,000	1.26
Install high visibility crosswalks on N/S crosswalks	25% (NS20PB)	\$111,600	\$34,800	3.21
Install green bicycle paint in conflict zones	35% (R32PB)	\$156,240	\$29,184	5.35