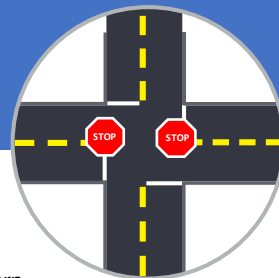


Case Study Sheet: Location #1

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

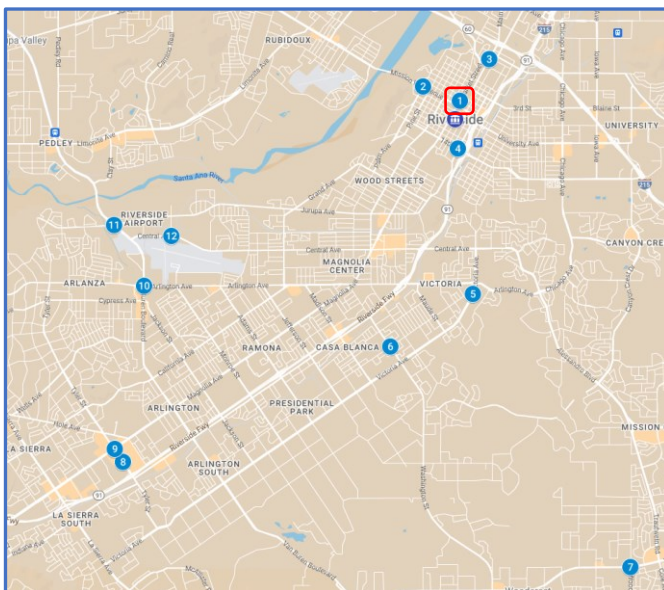
**HAWK SIGNAL
INTERSECTION**



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 |