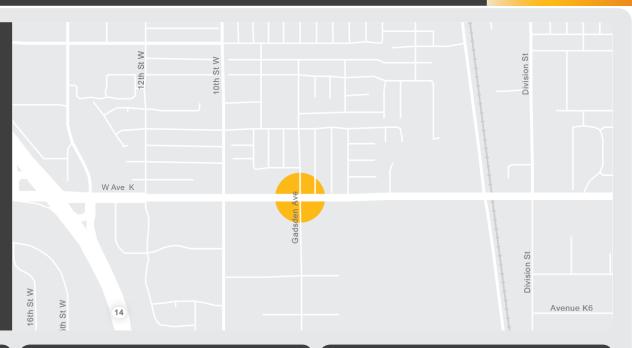
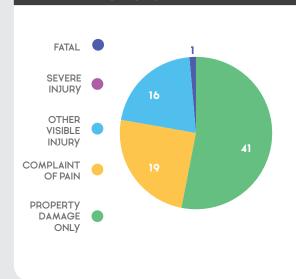
# **EXISTING CONDITIONS**

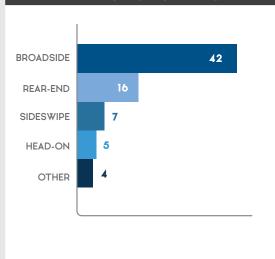
- O SIGNALIZED INTERSECTION
- O AVENUE K HAS 6 LANES PLUS TURN LANES
- O GADSDEN AVENUE HAS 2 LANES, WITH A TURN LANE ON ONE APPROACH
- O A FRONTAGE ROAD PARALLELS AVENUE K, INTERSECTION GADSDEN AVENUE IMMEDIATELY NORTH OF THIS INTERSECTION
- O YELLOW SCHOOL CONTINENTAL CROSSWALKS
- O COUNTDOWN SIGNALS
- O PROTECTED/PERMISSIVE LEFT TURNS ON AVENUE K



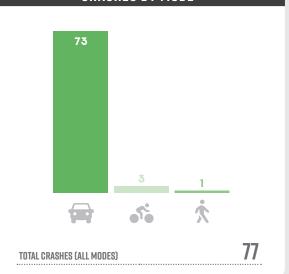
# **CRASH SEVERITY**



# **VEHICLE CRASH TYPES**



# **CRASHES BY MODE**



Crash data analysis years: 2013-2017

### COUNTERMEASURE OBJECTIVES

- O REDUCE BROADSIDE CRASHES
- O REDUCE LEFT TURN CRASHES



### SHORT-TERM

CMID Project Description Cost

Improve Signal Timing with Extended Clearance Time (Based on MUTCD Guidelines and roadway speed)

### MID-TERM

CMID Project Description Cost Improve signal hardware: lenses, backplates, mounting, size, and number \$15,302

Provide protected left turn phase (left turn lane already exists) - Convert from protected/permissive to protected on \$150,000 Avenue K

### LONG-TERM

CMID Project Description Cost

### OTHER COSTS

Project Description	Cost	
Mobilization	\$16,590	
Traffic Control	\$16,590	
Contingency	\$39,816	
Environmental	\$16,600	
PS&E	\$24,900	
Appraisals, Acquisitions, and Utilities	\$0	
Construction Engineering	\$24,900	

\$305,299 **COST ESTIMATES** 

**EXPECTED BENEFIT/COST RATIO\*** 

Systemic Improvement
 Location-specific Improvement

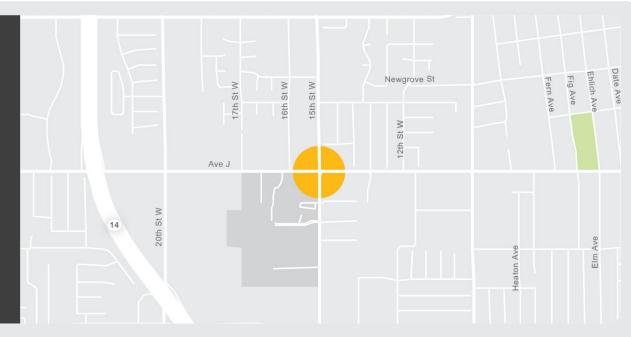
Evaluate Proposed Improvement for Implementation

\*B/C ratio reflects projects for Locations 3, 11 and 12

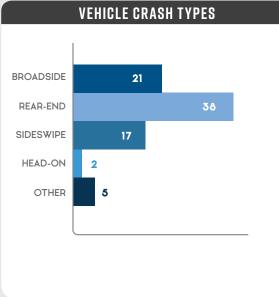
12 ISTH ST W & AVE J LOCATION PROFILE

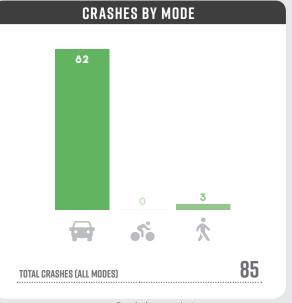
# **EXISTING CONDITIONS**

- O SIGNALIZED INTERSECTION
- O AVENUE J HAS 4 LANES PLUS TURN LANES
- O 15TH STREET WEST HAS 2 LANES PLUS TURN LANES TO THE NORTH, AND 3 LANES PLUS TURN LANES TO THE SOUTH
- O A BUFFERED BIKE FACILITY RUNS ON 15TH STREET WEST NORTH OF THIS INTERSECTION
- O STANDARD CROSSWALKS
- O PROTECTED LEFTS ON AVENUE J
- O PROTECTED/PERMISSIVE LEFT TURNS ON 15TH STREET WEST



# FATAL SEVERE INJURY OTHER VISIBLE INJURY COMPLAINT OF PAIN PROPERTY DAMAGE ONLY





Crash data analysis years: 2013-2017

15TH ST W & AVE J 12 RECOMMENDATIONS

### COUNTERMEASURE OBJECTIVES

- O REDUCE REAR-END CRASHES
- O REDUCE PEDESTRIAN CRASHES
- O REDUCE LEFT TURN CRASHES
- O REDUCE UNSAFE SPEED CRASHES



### SHORT-TERM

CMID	Project Description	Cost
S3	Improve Signal Timing with Leading Pedestrian Interval (This option will be considered, but must be verified that coordinated signal timing can accommodate)	\$500
S3	Improve Signal Timing with Extended Clearance Time (Based on MUTCD Guidelines and roadway speed)	\$600
S3	Improve Signal Timing with Extended Pedestrian Crossing Times (Based on MUTCD Guidelines and crossing	(incl. above)

### MID-TERM

Cost

CMID Project Description

S2	Improve signal hardware: lenses, back- plates, mounting, size, and number	\$16,395
S20	Install pedestrian crossing - Upgrade to Continental Crosswalks	\$9,240
S21	Install advance stop bar before crosswalk	\$1,440
S6	Provide protected left turn phase (left turn lane already exists) - Convert from protected/permissive to protected on 15th Street West	\$150,000

### LONG-TERM

CMID	Project Description	Cost
N/A		

### OTHER COSTS

Project Description	Cost	
Mobilization	\$17,818	
Traffic Control	\$17,818	
Contingency	\$42,762	
Environmental	\$17,900	
PS&E	\$26,800	
Appraisals, Acquisitions, and Utilities	\$0	
Construction Engineering	\$26,800	

\$328,072 **COST ESTIMATES** 

**EXPECTED BENEFIT/COST RATIO\*** 

distance)

Systemic Improvement
 Location-specific Improvement

Evaluate Proposed Improvement for Implementation

\*B/C ratio reflects projects for Locations 3, 11 and 12