

# *15<sup>th</sup> Avenue / Mark Morris Court Traffic Signal*

City Council Meeting  
*October 8, 2015*

*Presented By: Manuel Abarca*  
*Traffic Engineer*

# *15<sup>th</sup> Avenue / Mark Morris Court Traffic Signal*



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## Pedestrian Data

- Approximately 200 students per hour use crossing during first and second lunch periods.
- Staff observed over 60 crossing during a one-hour period.
- Average time traffic was stopped: 22 seconds
  - shortest stop time observed: 13 seconds
  - longest stop time observed: 48 seconds

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## Pedestrian Data

- Significant pedestrian crossings generated by transit riders
- The Mark Morris Ct. bus stop has second highest boardings in entire transit service area
  - 4,889 boardings (Feb thru August 2015)
  - Ridership generated by Winco, Triangle Center, and Mark Morris HS

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## Vehicle Traffic Count Data

Traffic Counts 9/15/15	15th Ave	15th Ave	MM Court
	NB	SB	EB+WB
8:00 AM	149	193	246
12:00 Noon	498	333	84
3:00 PM Dismissal	482	371	188
5:00 PM	534	336	90
7:00 PM Evening Event	252	279	148
24 hour	5,429	4,055	1,377

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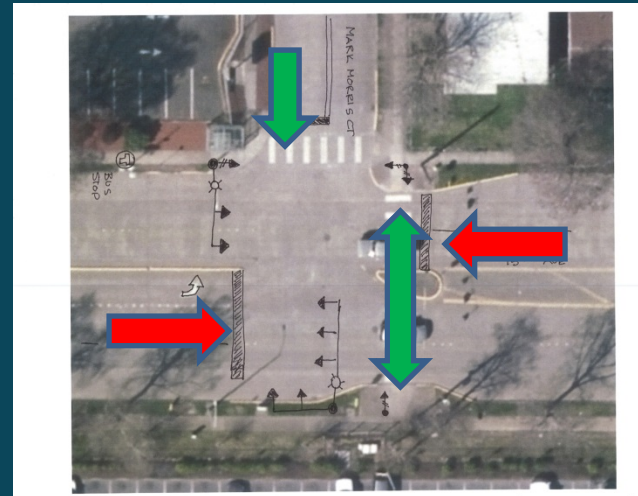
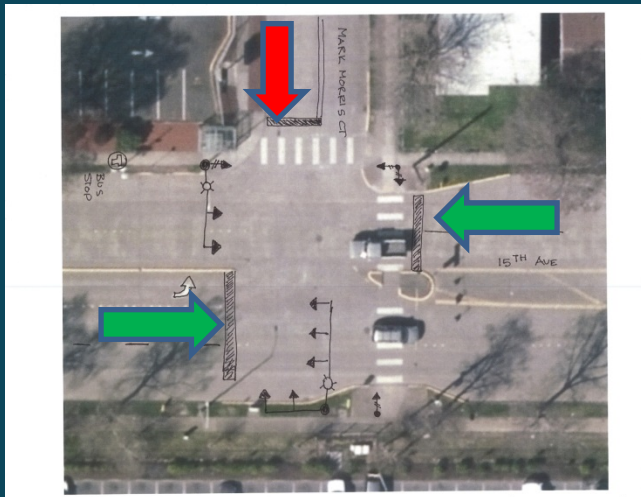
## Phasing Options

### 2-Phase Operation

Phase 1

60 sec cycle

Phase 2



Level of Service A

#### Pros

Very efficient  
Minimal Delay

#### Cons

Less protection for  
pedestrians



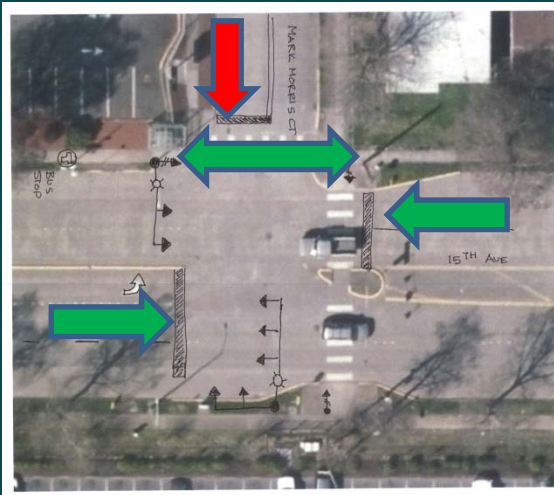
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## Phasing Options

### 3-Phase Operation

80 sec cycle

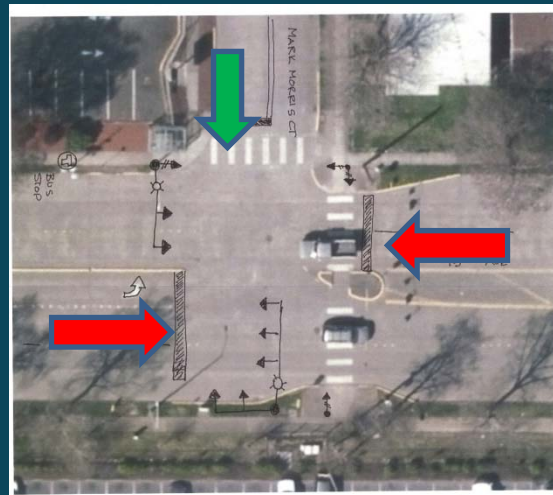
Phase 1



Pros

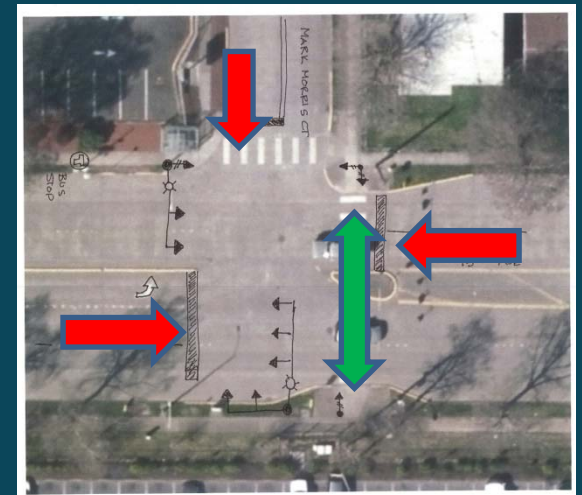
Greater pedestrian protection

Phase 2



Level of Service B

Phase 3



Cons

Slight increase in  
vehicle delay

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## Installation Cost

- Estimated project cost: \$327,000

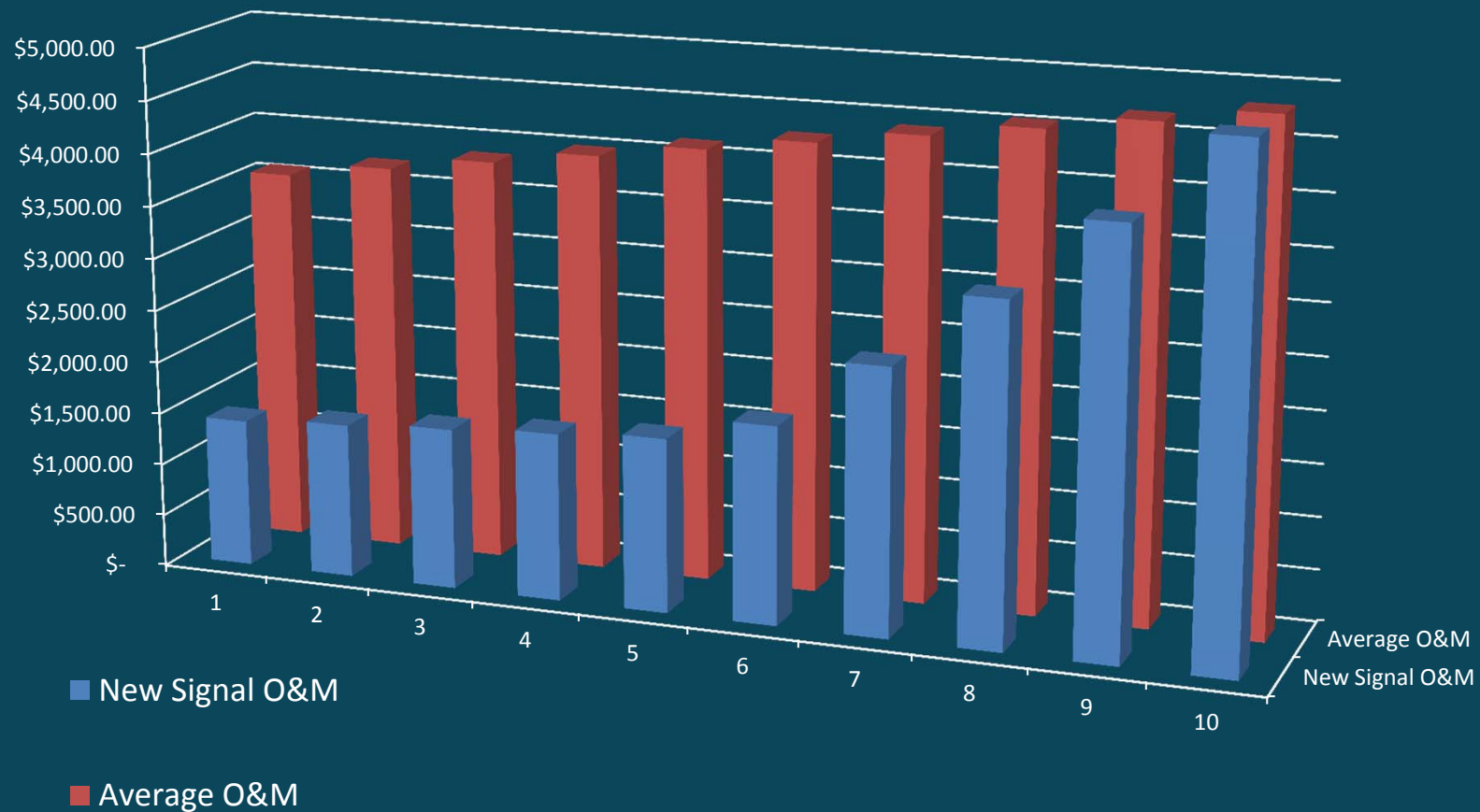
## Funding Sources

- FHWA Pedestrian Safety Grant: \$294,000
- Longview School District: \$ 15,000
- City Public Safety Fund: \$ 18,000



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## Maintenance and Operation Cost



# *15<sup>th</sup> Ave at Mark Morris Court Traffic Signal*

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## Staff Recommendation

- Accept the grant and construct a traffic signal at Mark Morris Court
- Remove the school zone after traffic signal is completed
- Work with school district to educate students on obeying the traffic signal