Presentations for the

February 10, 2020

City Council Meeting
San Antonio Road & East Charleston Road Intersection Improvement Project

City Council
February 10, 2020
Project Goals

Priority Issues:
1. Pedestrian Safety Improvements
2. Vehicular Safety Improvements
3. Traffic Operations (congestion)
Existing Conditions
Collision Data: 25 Collisions (2012-2016)

Rear-End 9 (36.00%)
Highest: WB Charleston

Sideswipe 7 (28.00%)
Highest:
-SB San Antonio
-EB Charleston

Hit Object 1 (4.00%)

Head-On 2 (8.00%)

Broadside 6 (24.00%)
Highest: Mixed. Right of Way Violations

Collision Types
Community/Stakeholder Outreach and Meetings

Community Meetings:
Four (4) Community Meetings
• April 2018
• September 2018
• February 2019 (Business Focus)
• August 2019

PABAC:
• October 2018, plus follow-up updates

Planning and Transportation Commission:
• November 2019

Future Meetings through design process:
• PABAC, Community Meeting
• Council Approval of Final Design and Construction Contract(s)
Preliminary Ideas

**Idea A:**  
- Pedestrian Crosswalk Improvements (southwest corner modification)  
- Remove one southbound right-turn lane and add Overlap phase  
- Add southbound bike lane

**Idea B:**  
- Add second southbound left-turn lane on San Antonio Road

**Idea C:**  
Combination A and B

**Idea D:**  
Add second southbound left-turn lane on San Antonio Road,  
Modification of two southbound right turn lanes
Preliminary Ideas

Idea C:  
- Remove one southbound right-turn lane and add Overlap phase
- Add second southbound left-turn lane on San Antonio Road
- Pedestrian Improvements at southwest corner
- Add southbound bike lane
- Potentially Significant Traffic Impacts
Recommended Alternative

Idea D:
- Add second southbound left-turn lane on San Antonio Road
- Improve Pedestrian visibility and reduce crossing distance for two x-walks
- Optimize Southbound Right-Turn signal operations
Recommendation

Staff and PTC recommend that City Council take the following action:

Review the preferred alternative concept plan for San Antonio Road and East Charleston Road intersection and direct staff to complete final design plans, environmental analysis, specifications, and construction cost estimates.
Preliminary Ideas

**Longer-Term Concept**: Replace southbound right-turn lane with two-way protected path

(Not included as part of this current project).
## Level of Service - 2017

<table>
<thead>
<tr>
<th>AM Peak Hour</th>
<th>PM Peak Hour</th>
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<tr>
<td>LOS</td>
<td>Delay</td>
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[Diagram showing traffic volumes and LOS calculations.]
Collision Data: 25 Collisions (2012-2016)
Turning Movement Counts-AM Peak Hour

Peak Hour Data

Peak Hour Begins at 08:00 AM

Vehicles
Turning Movement Counts-PM Peak Hour

Peak Hour Data

Peak Hour Begins at 05:00 PM

Vehicles

North

CITY OF PALO ALTO
Preliminary Ideas

**Idea A:**
- Remove one southbound right-turn lane and add Overlap phase
- Pedestrian Improvements at southwest corner
- Add southbound bike lane
Preliminary Ideas

Idea B: - Add second southbound left-turn lane on San Antonio Road