

Improving Circulation at the 5-Way Intersection



COMMUNITY MEETING #3



What are we doing tonight?

- Review the Process
- Meeting #2 Recap
- Address Key Questions
- Review Alternatives
- Advance Discussion
- Q&A
- Breakout Stations



What is the Process?

Step 1 = Public Involvement and Input

- Public Meeting #1 (gather initial input)
- Develop CONCEPT LEVEL Alternatives
- Public Meeting #2 (present alternatives and gather input)
- Develop ADDITIONAL CONCEPT LEVEL alternatives
- Public Meeting #3 (further present alternatives/gather input)



What is the Process?

- City Complete Draft Study (PSR-PDS)
 - Alternatives, Traffic Op's, Safety, ROW impacts, etc.
- City Council Meeting

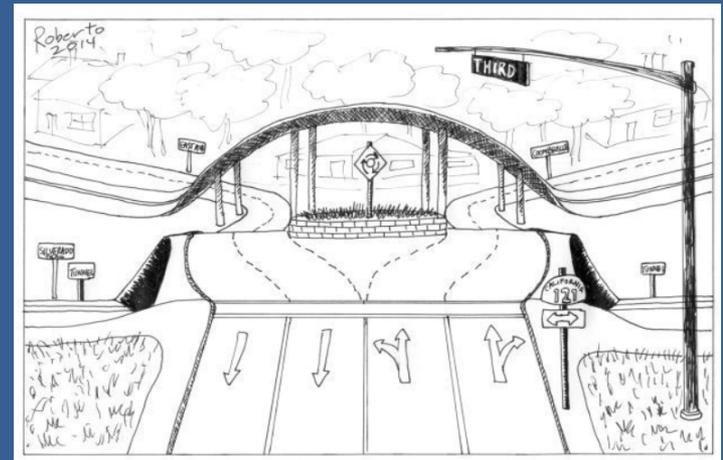
Step 2 – Project Development (2016 – 2020)

- Caltrans Complete Final Study
- Caltrans Completes Environmental Compliance
- Caltrans Design Project
- Caltrans Construct Project

Meeting 2: Recap

'What we covered'

- Comments from Meeting #1
- Primary Concerns (Improve, Access, Bike/Ped)
- Alternatives Summary (1-7) and Analysis
- Why Not a Signal
- Roundabout Operations



Meeting 2: What We Heard

‘Need more info on...’

- Current Signal Operations
- Project Need – Safety
- Pedestrian Enhancements
- Quantify Intersection Rating/Delay
- Preserve Napa Character
- Another Option?



Meeting 1&2: Improve Existing Situation Now

‘Caltrans restored the existing signal – traffic actuated’

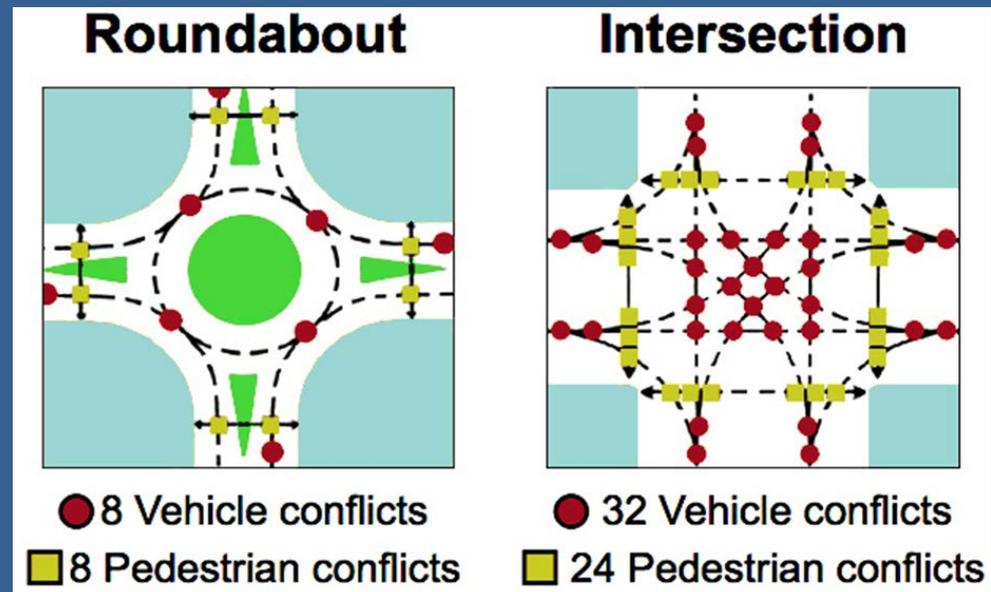
As of September 29, the existing signal is traffic actuated!
The improvement will be noticeable at “off-hours,” however it will not fully address delays.



Meeting 3: Project Need

'Improve Safety'

Existing intersection at 0.80 collisions per MEV > 0.43 collisions per MEV for State-wide average; CT SHOPP Project



Meeting 3: Improved Signal

Enhance Pedestrian Safety



Meeting 3: Intersection Rating

Existing Intersection at LOS F (>80 s) for the last 15 years



LEVELS OF SERVICE for Intersections with Traffic Signals		
Level of Service	Delay per Vehicle (seconds)	
A	≤ 10	
B	11-20	
C	21-35	
D	36-55	
E	56-80	
F	> 80	

Factors Affecting LOS of Signalized Intersections

Traffic Signal Conditions:

- Signal Coordination
- Cycle Length
- Protected left turn
- Timing
- Pre-timed or traffic activated signal
- Etc.

Geometric Conditions:

- Left- and right-turn lanes
- Number of lanes
- Etc.

Traffic Conditions:

- Percent of truck traffic
- Number of pedestrians
- Etc.

Meeting 3: Intersection Rating

Delay: do nothing vs improvement

	Delay (sec/veh)	LOS
Existing Conditions – Pre CT	81	F
Existing Conditions - No Build	73	E
2020 Conditions – No Build	86	F
2040 Conditions – No Build	153	F
2040 Conditions – Alt 1	41	D*
2040 Conditions – Alt 6	12	B
2040 Conditions – Alt 7	11	B
2040 Conditions – Alt 8	9	A



* Restricted Access at East Ave

...Doing nothing is not a viable option.

Meeting 3: Intersection Performance

Vissim Simulation (1.5X Speed)
2040 PM Peak Hour Scenario
5-Leg Signal No Build Alternative

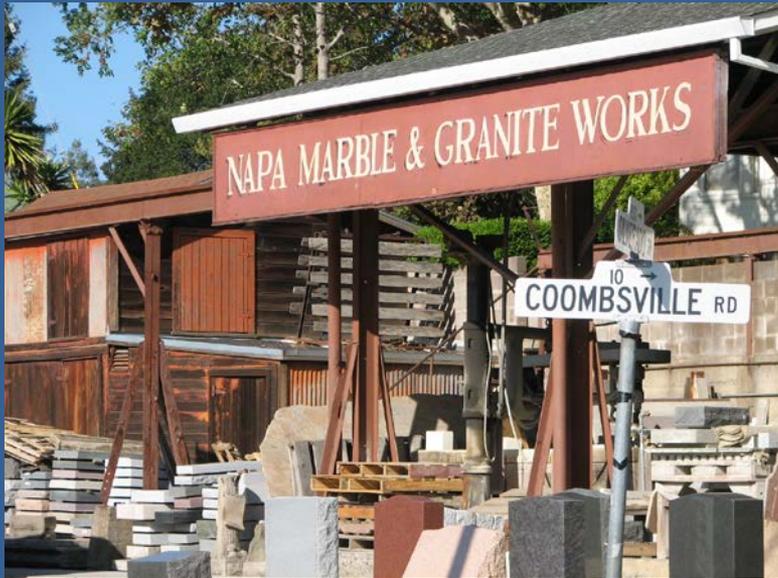
Silverado / 3rd St Improvement Project
City of Napa

Omni-Means Engineers
11-19-2015

...Doing nothing is not a viable option.

Meeting 3: Prioritize the Napa Culture

Preserve the Napa Character

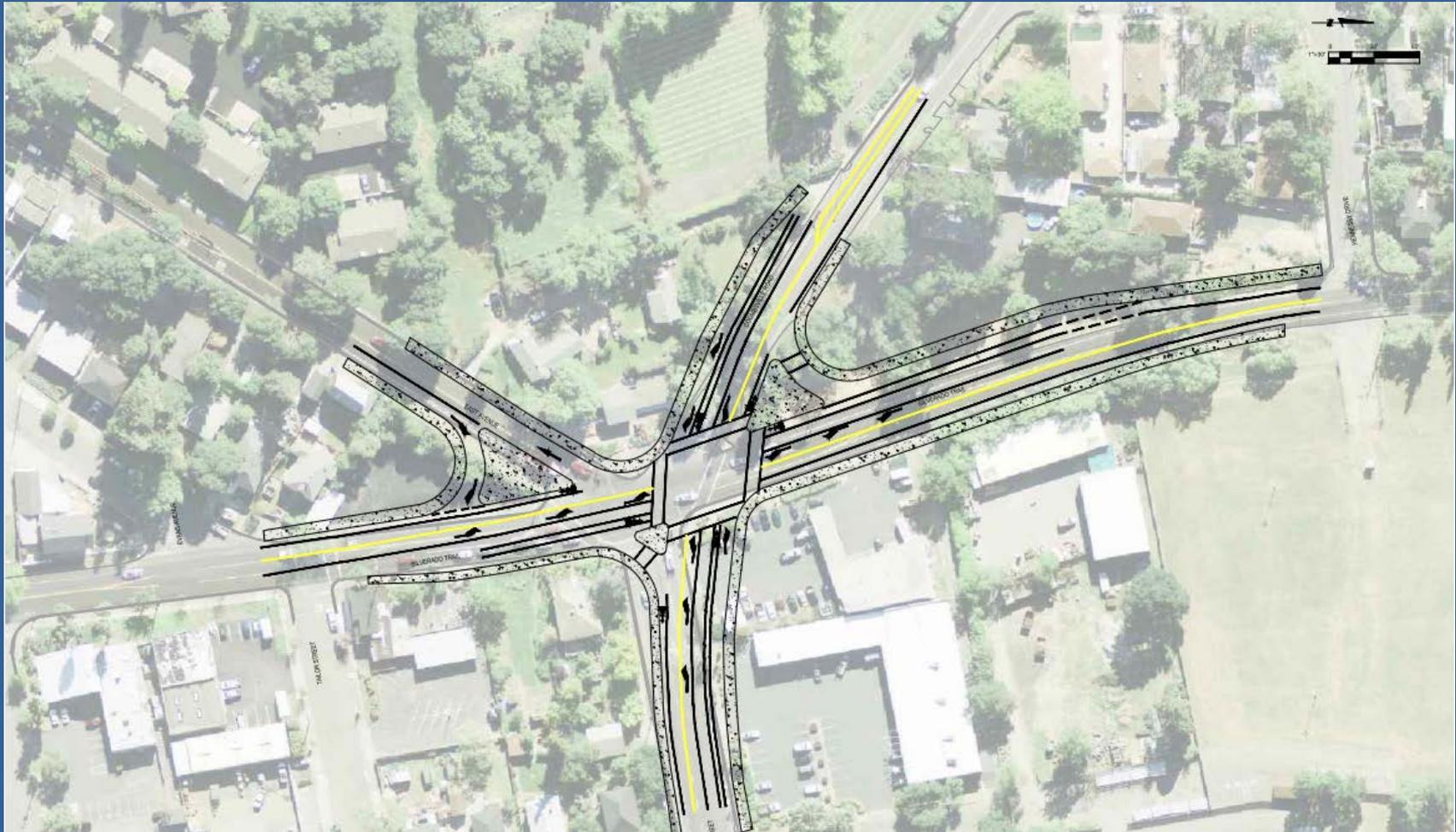


Meeting 3: Pedestrian Safety

Is there another option?

Meeting 3: Advancing the Alternatives

Alternative – 1 (modified)



Meeting 3: Intersection Performance

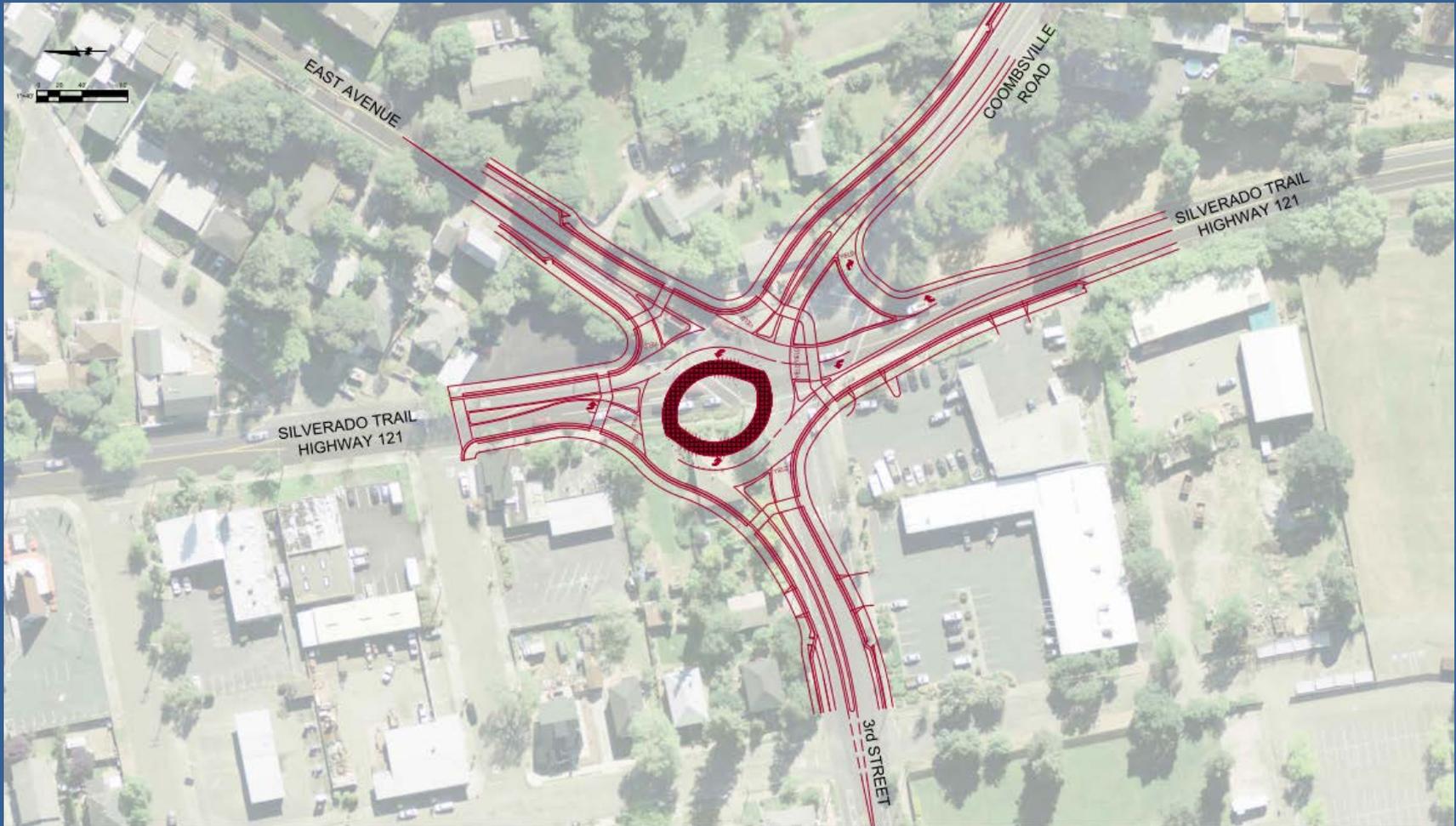
Vissim Simulation (1.5X Speed)
2040 PM Peak Hour Scenario
5-Leg Signal Alternative 1

Silverado / 3rd St Improvement Project
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Meeting 3: Advancing the Alternatives

Alternative – 6



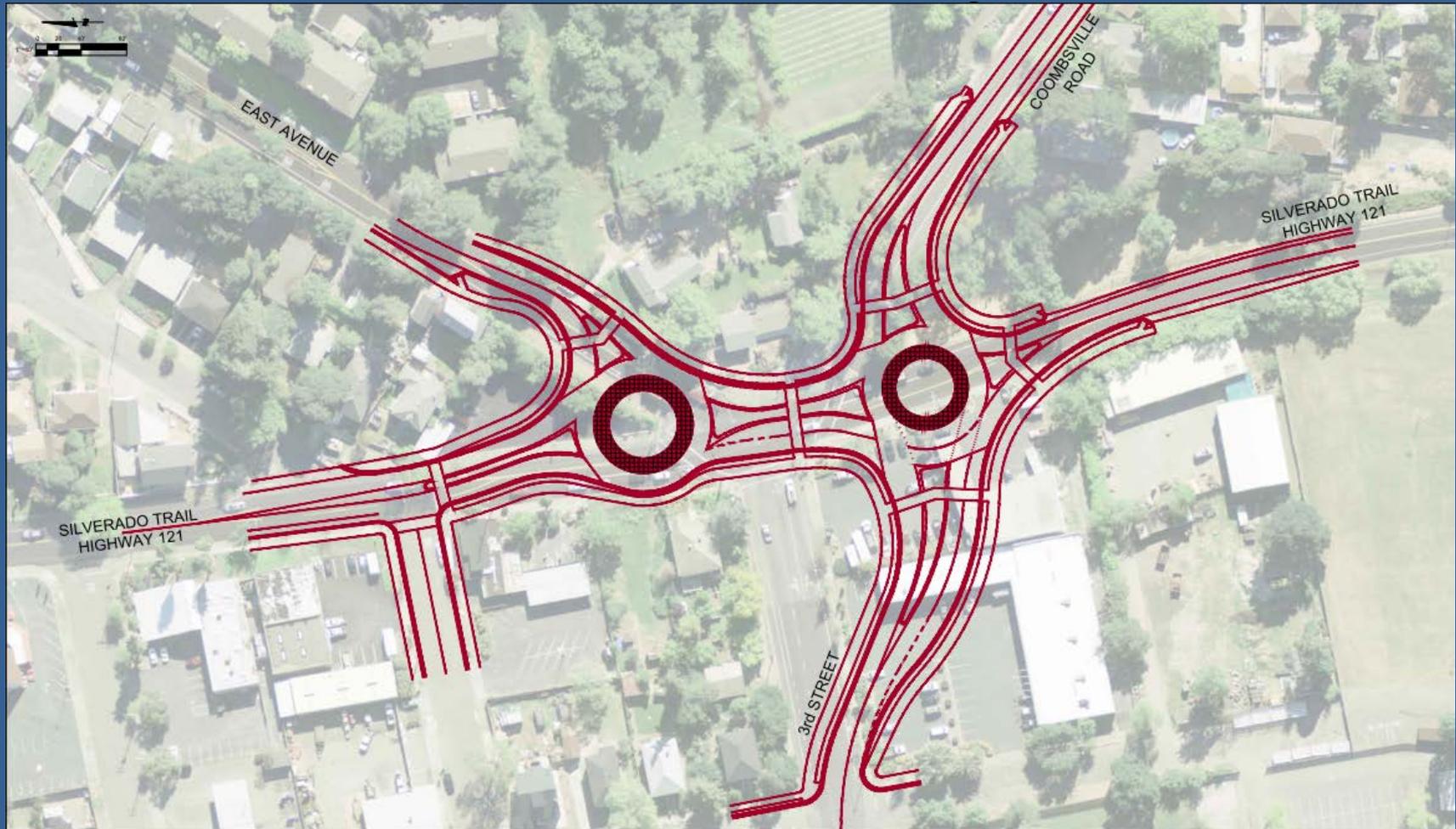
Meeting 3: Advancing the Alternatives

Alternative – 7 A

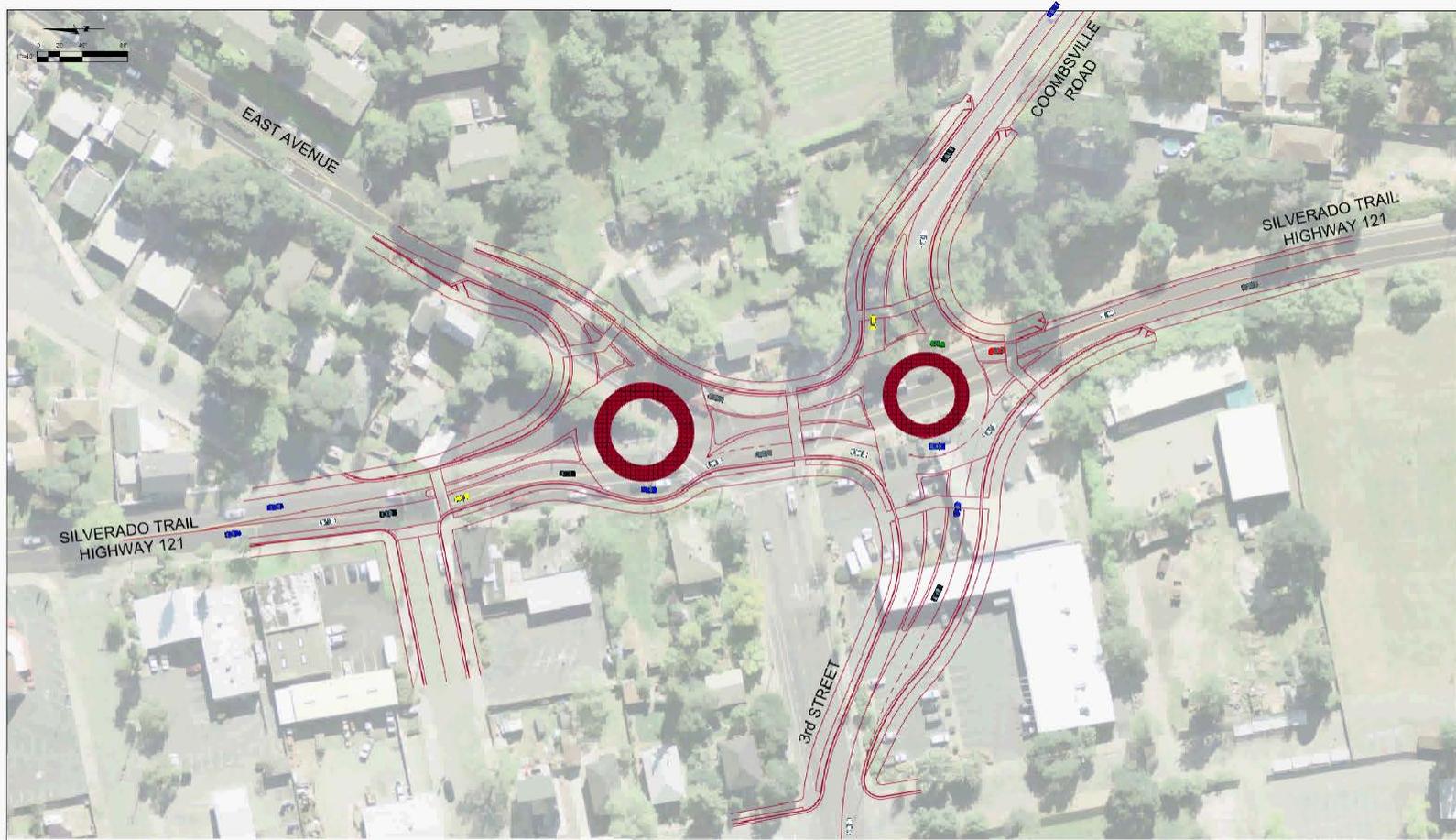


Meeting 3: Advancing the Alternatives

Alternative – 8



Meeting 3: Intersection Performance



No.	Revision	Date	By	Check	Appr.	Notes

No. Revision Date By Check Appr. Notes
 Plot Date: 15 November 2015 - 4:52 PM Printed by: C:\Users\m...
 Cal File No: I:\14-2011\Main\Commuter\PS1-1523182374\306.dwg



Drawn: _____
 Checked: _____
 Design: _____
 Date: _____
 Approved: _____
 Scale: _____

Client: CITY OF NAPA
 Project: FIVE WAY INTERSECTION IMPROVEMENT ALTERNATIVE
 Title: OPTION 8
 Date: _____
 Approved: _____
 Scale: _____
 The Drawing shall not be used for construction unless signed and sealed for construction.

ANSI D Drawing No: _____ Rev: _____

Meeting 3: Advancing the Alternatives

What if do nothing?

Functionality / Operations Issues

- Now - Delay
- Future – More Delay

Safety

Bike/Ped Use

ADA



Tonight's Take Aways

- **Community comments are being heard**
- **'Do Nothing' does not work**
- **Roundabout solutions are viable**
- **Signal is viable IF access is Restricted at East Ave**

Q&A Session



- **Q & A with Community / Attendees**

Next: Break Out Stations

- **Finalizing the Alternatives – Post It Notes**
- **Complete Comment Cards**
- **Sign Attendee List**

...Thank You!