



# LAKEMONT BLVD SE/SE COUGAR MOUNTAIN WAY INTERSECTION

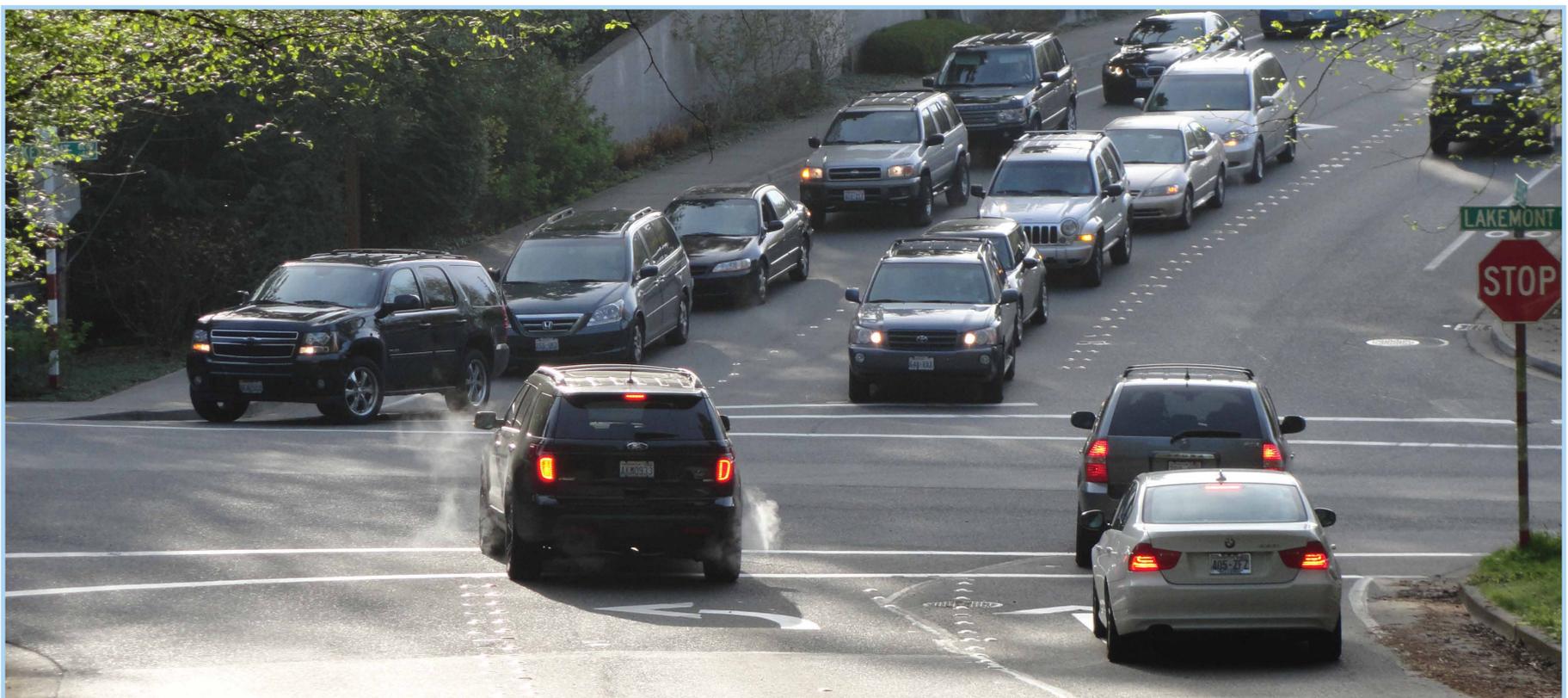


## PROJECT VISION

The Lakemont Boulevard SE/SE Cougar Mountain Way/SE 63rd Street project will enhance vehicular and pedestrian access to the Lakemont area, address intersection operations and maintenance needs, and improve traffic safety by providing a new traffic control facility to be determined by a design analysis and a public outreach effort.



Lakemont Boulevard SE – Southbound Queue



SE Cougar Mountain Way – Westbound Queue



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## PROJECT OBJECTIVES

Improvements to the Lakemont Boulevard SE / SE Cougar Mountain Way / SE 63rd Street intersection will strive to accomplish several objectives:

- Address Traffic Issues
  - Long delays on SE 63rd Street and SE Cougar Mountain Way
  - Left turn vehicles blocking Lakemont Boulevard SE
  - Turning trucks encroaching into adjacent lanes
- Provide and enhance pedestrian access
- Improve vehicular safety at the intersection
- Minimize impact to the adjacent sensitive areas
- Provide intersection improvements within the \$1.5 million project budget.



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## EXISTING CONDITIONS

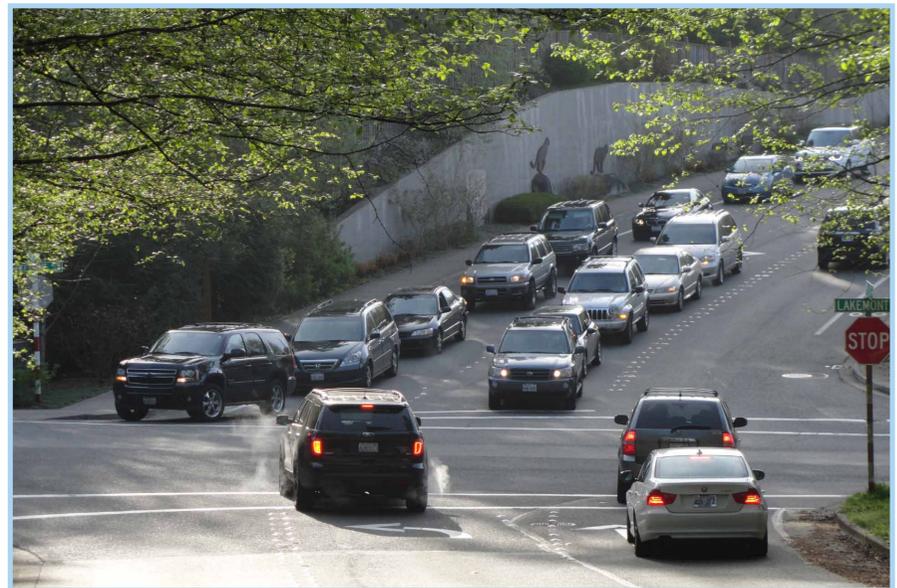
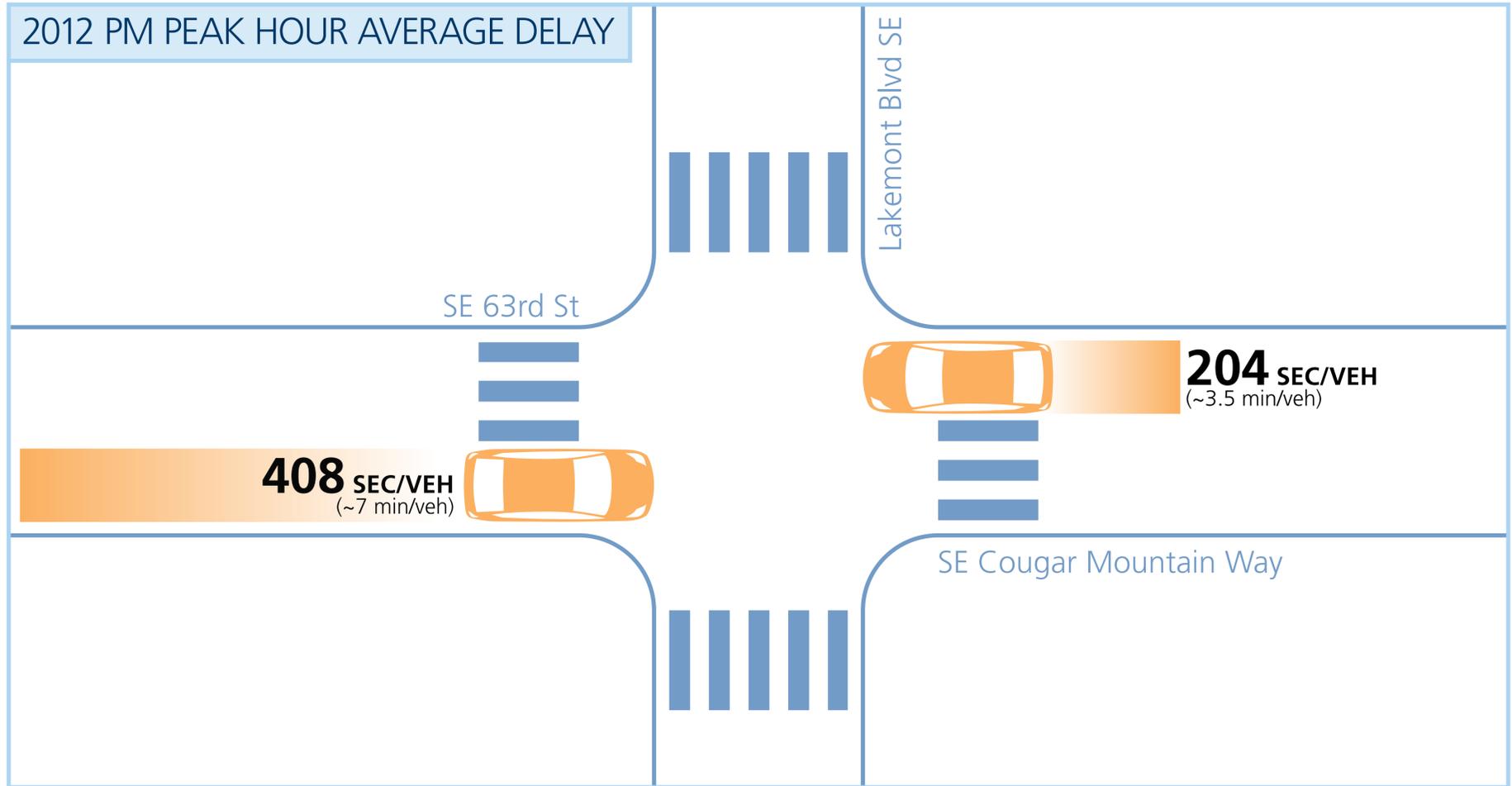




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## EXISTING CONGESTION





# LAKEMONT BLVD SE/SE COUGAR MOUNTAIN WAY INTERSECTION



## COLLISION HISTORY

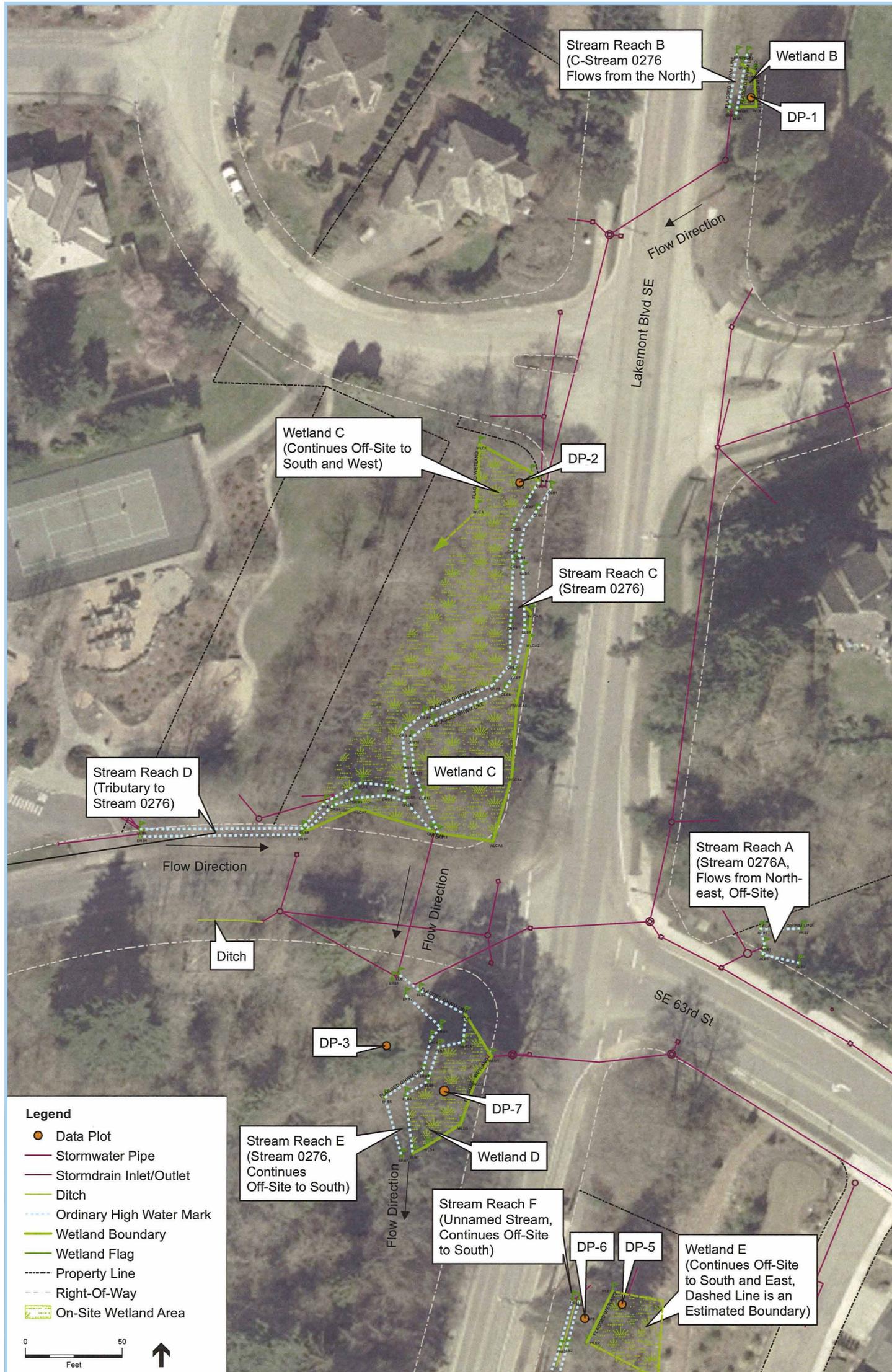
COLLISION TYPE	JUNE to DEC 2008	JAN to DEC 2009	JAN to DEC 2010	JAN to DEC 2011
Right Angle	1	–	–	1
Approach Turn	1	–	–	2
Rear End	–	–	1	1
Fixed Object	–	2	–	–
Other	1	–	–	–
Total	3	2	1	4



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## ENVIRONMENTAL IMPACTS

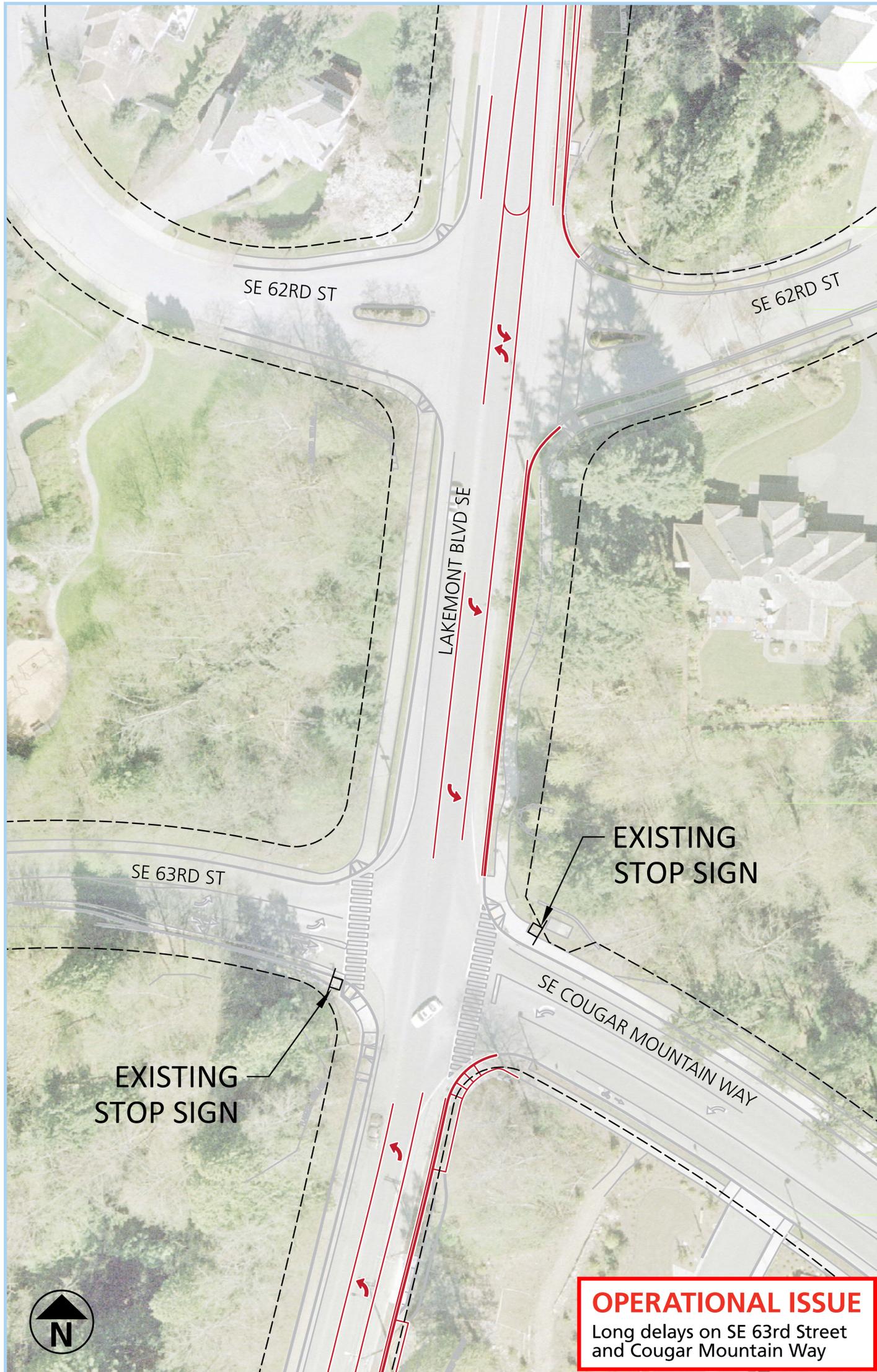




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## OPTION 1 – ADD LEFT TURN TO LAKEMONT BLVD SE

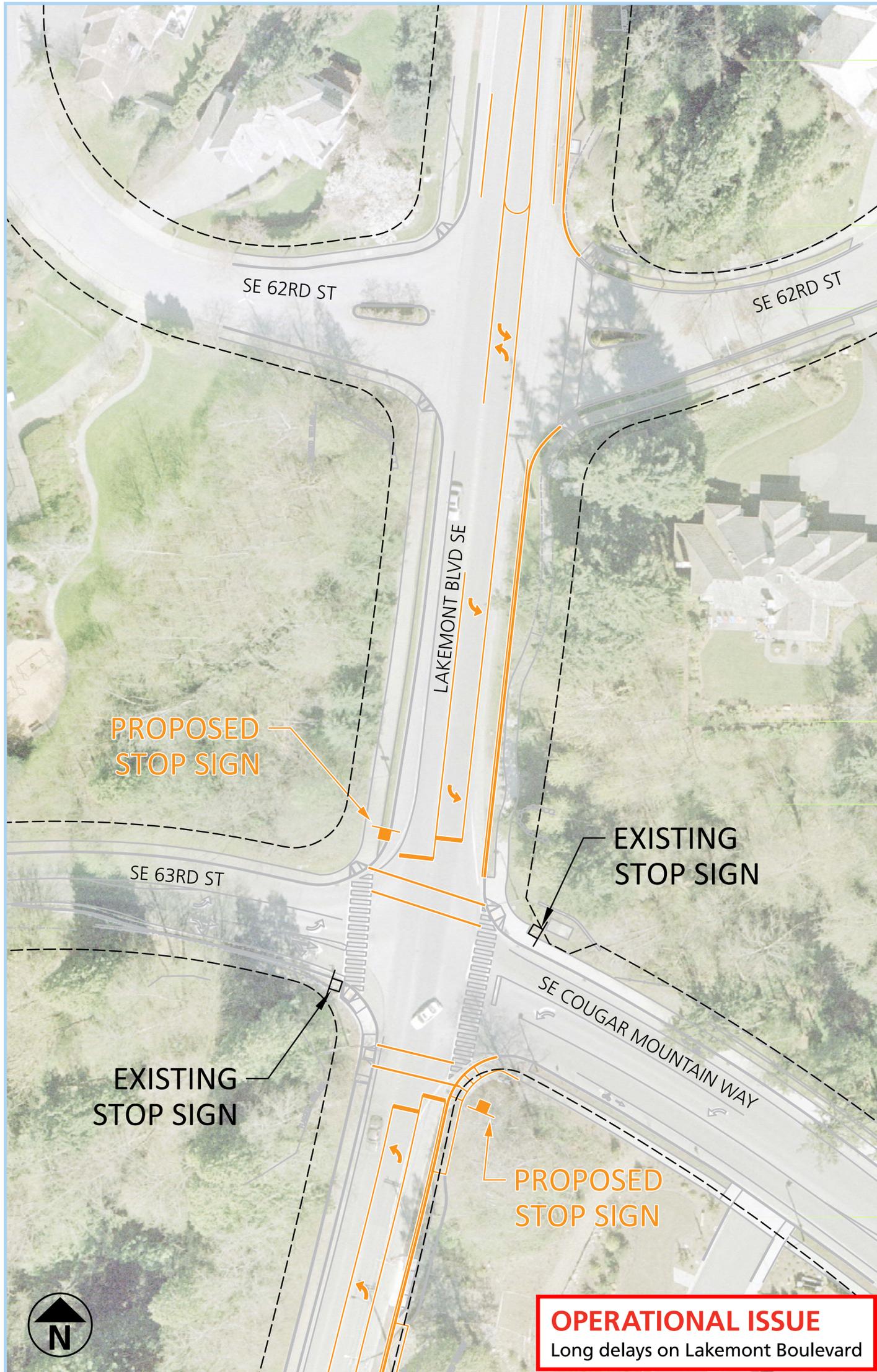




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## OPTION 2 – ALL WAY STOP CONTROL

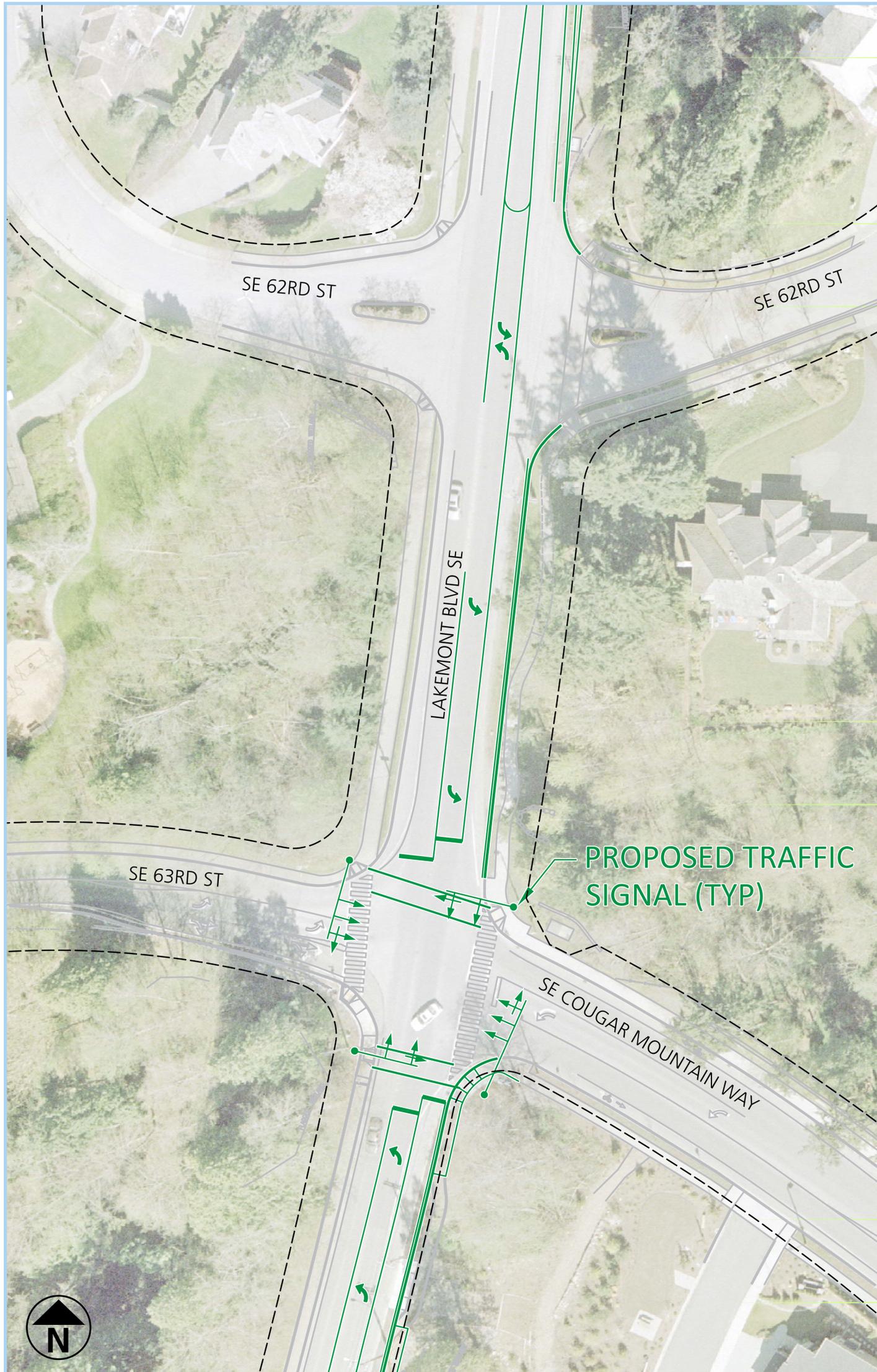




# LAKEMONT BLVD SE/SE COUGAR MOUNTAIN WAY INTERSECTION



## OPTION 3 – TRAFFIC SIGNAL





# LAKEMONT BLVD SE/SE COUGAR MOUNTAIN WAY INTERSECTION



## OPTION 4 – ROUNDABOUT

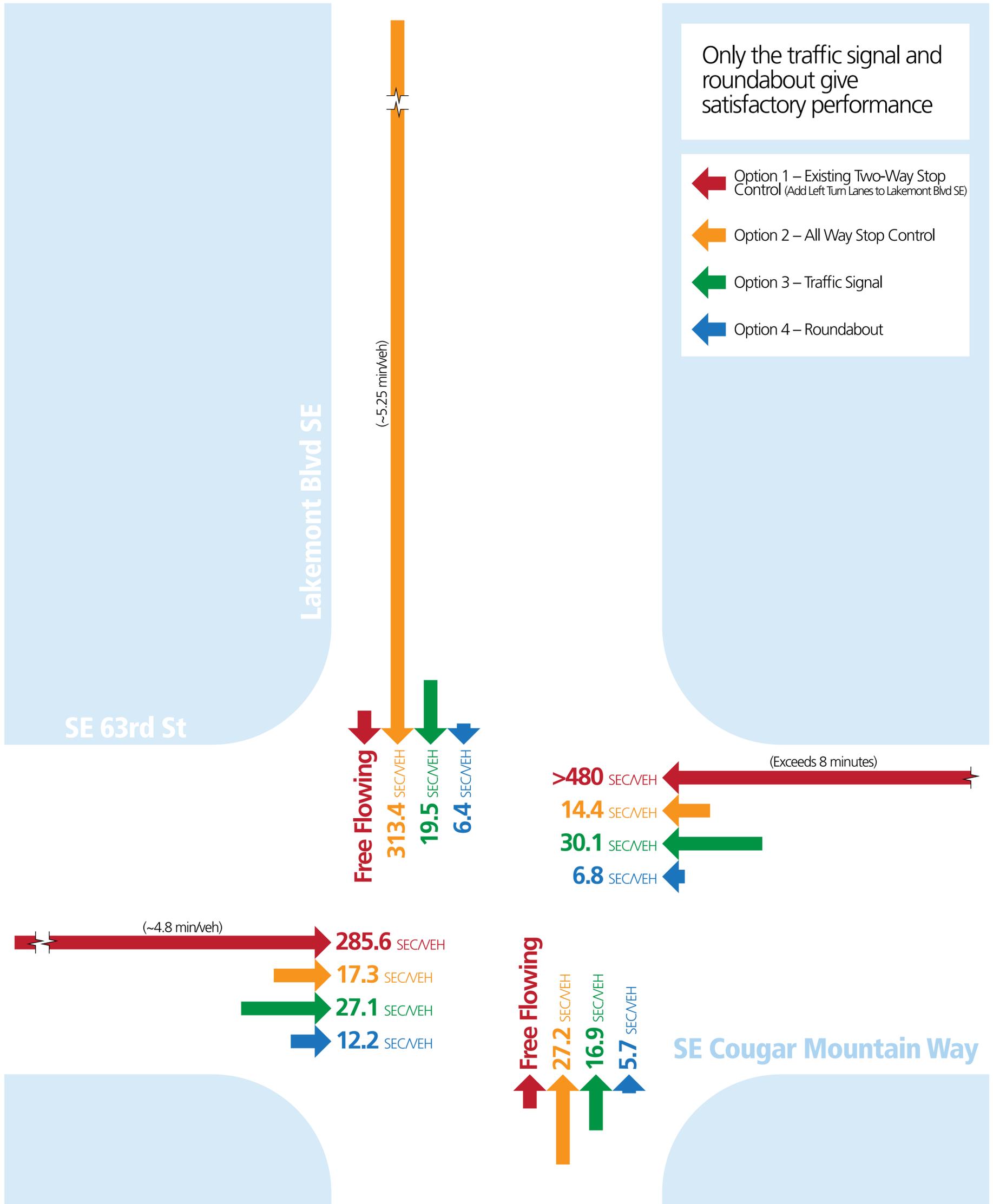




# LAKEMONT BLVD SE/SE COUGAR MOUNTAIN WAY INTERSECTION



## 2030 PM PEAK HOUR AVERAGE DELAYS





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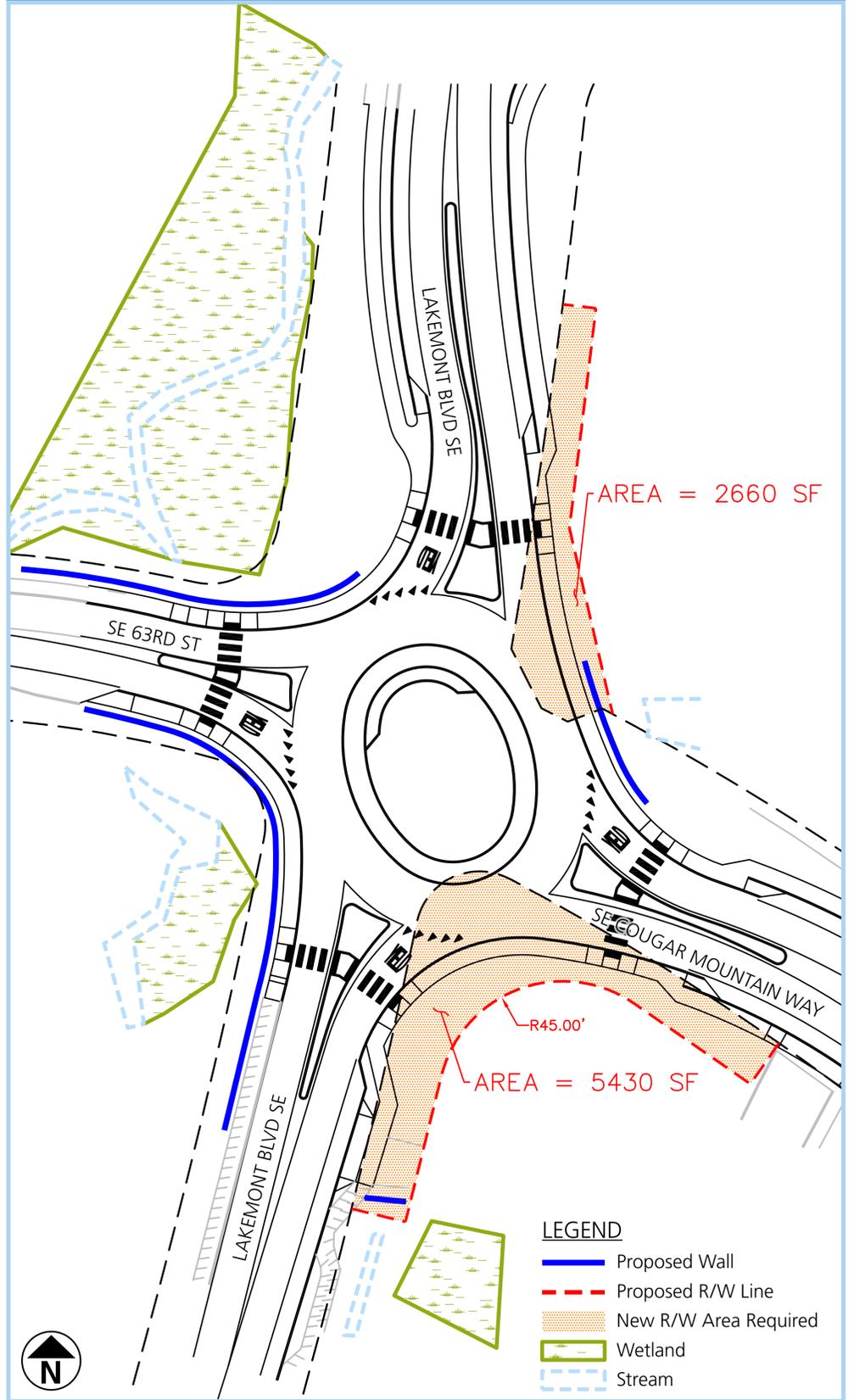


## RIGHT OF WAY & ENVIRONMENTAL IMPACTS

### Traffic Signal



### Roundabout





# LAKEMONT BLVD SE/SE COUGAR MOUNTAIN WAY INTERSECTION



## SUMMARY & RECOMMENDATION

### SUMMARY

MEASURE	TRAFFIC SIGNAL	ROUNDAABOUT	COMMENTS
Operations	✓	✓	Both the traffic signal and roundabout give satisfactory 2030 PM peak hour performance
Safety	✓	✓	Both the traffic signal and roundabout provide greater safety and access than the existing intersection. The roundabout provides the best safety because it eliminates many of the intersection conflict points
Minimize Right-of-Way Needs	✓		The roundabout requires more right-of-way needs
Environmental Impacts	✓		The roundabout requires the construction of walls to avoid adjacent sensitive areas
<b>Project Cost</b>	✓ <b>\$1.24 Million</b>	<b>\$3.26 Million</b>	Adopted project budget = \$1.5 Million

### RECOMMENDATION – OPTION 3 – TRAFFIC SIGNAL

The large number of design constraints (sensitive areas, approach grades, utilities, trucks) at Lakemont Boulevard SE and SE Cougar Mountain Way make the roundabout a very expensive improvement to this intersection, much more than is budgeted for the project.

The traffic signal is the recommended improvement because it provides satisfactory 2030 PM peak hour performance, improves intersection safety and access, and is within the City's budget.