NEIGHBORHOOD LEVY PROJECT

TRANSPORTATION

Neighborhood Congestion Reduction Levy Program

Transportation Commission Update

September 26, 2019

Chris Long, Traffic Engineering Manager

Tonight's Presentation

1. NCR Program overview
2. Review of NCR projects underway
3. 2019 Traffic Studies results review
4. Review recommended projects for final design

Transportation Commissions Role

Provide comments on the approach proposed for allocating design/construction funding to the selected projects.

Neighborhood Congestion Reduction Program

- *(Per Ordinance 6304) Projects to address and ease congestion for motor vehicles within, near and/or connecting neighborhoods to services to improve access and mobility.*
- Small to medium sized near-term projects
- Program covers:
  - Traffic studies
  - Outreach
  - Preliminary and final design
  - Construction

LEVY

Program Development Steps

- November 9, 2018: TC/Staff finalized NCR project scoring criteria
- January 25, 2018: TC endorsed recommended project list for 2018/2019 Traffic Studies
- June 27, 2019: TC/staff completed Eastgate Transportation Study

Project Prioritization Framework Revisions

Tier 0: Pass/Fail Criteria

	Pass/Fail - *does addressing congestion require redevelopment or a future outside-led project?*
Pass	Candidates whose congestion mitigation can be implemented without significant outside involvement
Fail	Mitigating congestion would require redevelopment or a future outside-led project

Project Prioritization Framework Revisions

Tier 1: Evaluation Prior to Traffic Study

A. Existing Vehicle Level of Service (80 pt. maximum)

For intersections, vehicle level-of-service will be used. For corridors, travel times informed by the multi-modal level-of-service guidelines will be used. See scoring tables below.

Table 1: Tier 1 Intersection Scoring Table

NEED		
LOS A, B, C v/c better than 15% of MMA Areawide Standard	**LOS D** v/c btw 15% & 5% of MMA Areawide Standard	**LOS E, F** v/c within 5% or exceeds MMA Areawide Standard
Low	**Medium**	**High**
0	40	80

Source: 2017 Transportation Facilities Plan (TFP) – modified

B. Safety (20 pt. maximum)

	Safety - *does the candidate location exhibit an existing safety need?*
20	The location exhibits a quantifiable potential for safety improvement based on existing conditions
0	The location does not exhibit a potential for safety improvement based on existing conditions

Project Prioritization Framework Revisions

Tier 2: Evaluation Prior to Final Design

A. Proposed Vehicle Level of Service (70 pt. maximum)

For intersections, vehicle level-of-service will be used. For corridors, travel times informed by the multi-modal level-of-service guidelines will be used. See scoring tables below.

Table 3: Tier 2 Intersection Scoring Table

			NEED		
			LOS A, B, C v/c better than 15% of MMA Areawide Standard	**LOS D** v/c btw 15% & 5% of MMA Areawide Standard	**LOS E, F** v/c within 5% or exceeds MMA Areawide Standard
BENEFIT	**Improvement Reduces v/c by**		**Low**	**Medium**	**High**
	No v/c change	Low	0	10	15
	Btw 0 - 0.10	Medium	10	25	50
	>0.10	High	15	50	70

Source: 2017 Transportation Facilities Plan (TFP) - modified

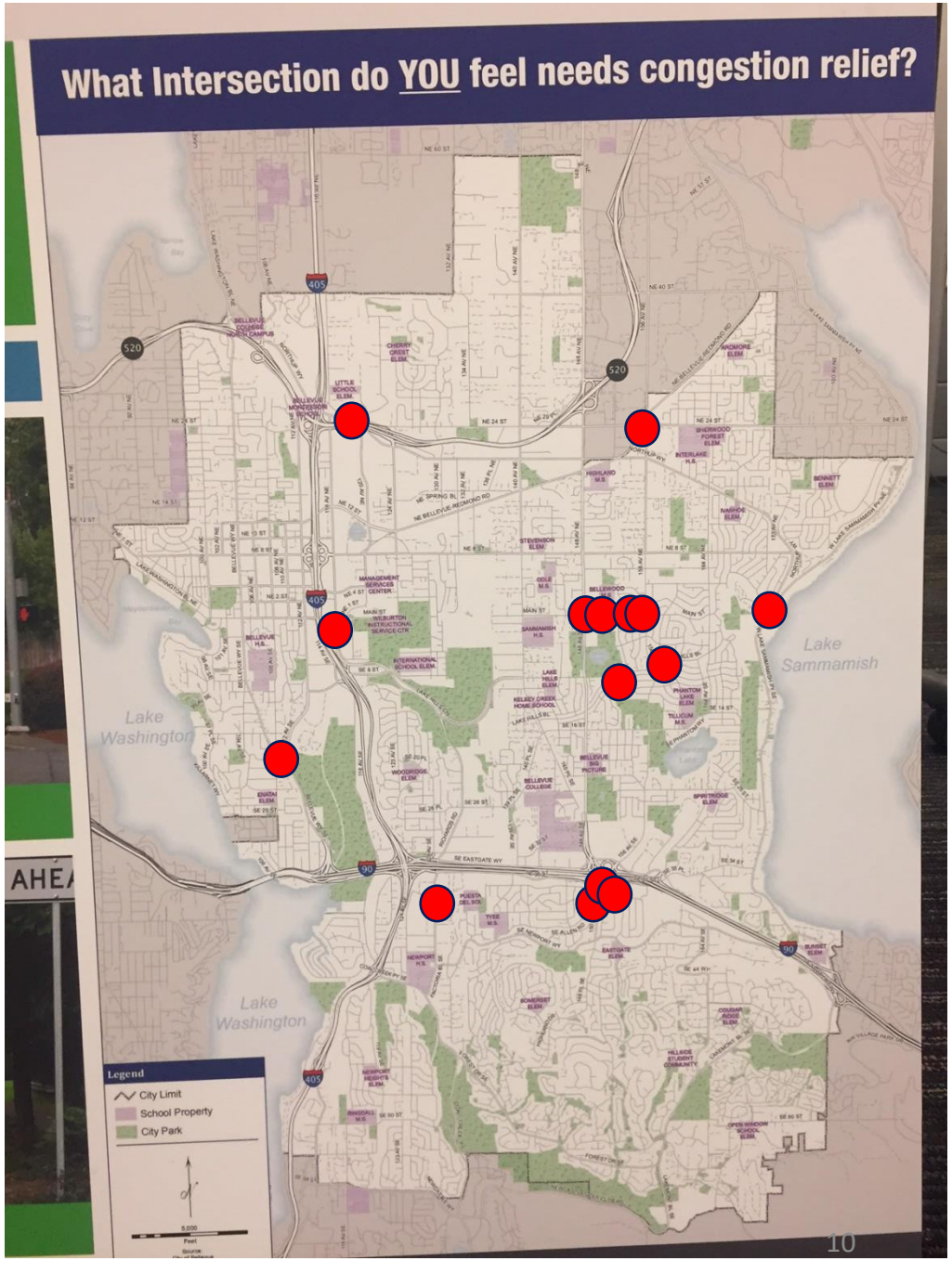
Project Prioritization Framework Revisions

Advantage Points (30 pt. maximum)

		Advantage Points - *projects would receive additional points for the following:*
5 points each	B.	Potential for grant funding - *project location is classified as an arterial on WSDOT's Arterial Classification Map*
	C.	Ease of implementation - *no significant ROW, environmental or cost implication*
	D.	Multimodal LOS for pedestrians - *project improves pedestrian MMLOS*
	E.	Multimodal LOS for bicycles - *project improves bicycle MMLOS*
	F.	Transit Impact - *if the project benefits a frequent transit route (5 pts), if a non-frequent transit route (2 pts)*
	G.	Safety - *project reduces the number of expected crashes*

Creation of Project List

- Resident comments from 2016 levy outreach
- Comprehensive Transportation Project List (including the TFP)
- Locations in the 2017 Concurrency Report that exceed max LOS for Mobility Management Areas (MMA)
- Staff recommendations from past resident inquiries



Neighborhood Congestion Reduction Project Review

ANALYSIS

- COMPLETED: 2019 Traffic Studies
- COMPLETED: Eastgate Transportation Study

DESIGN

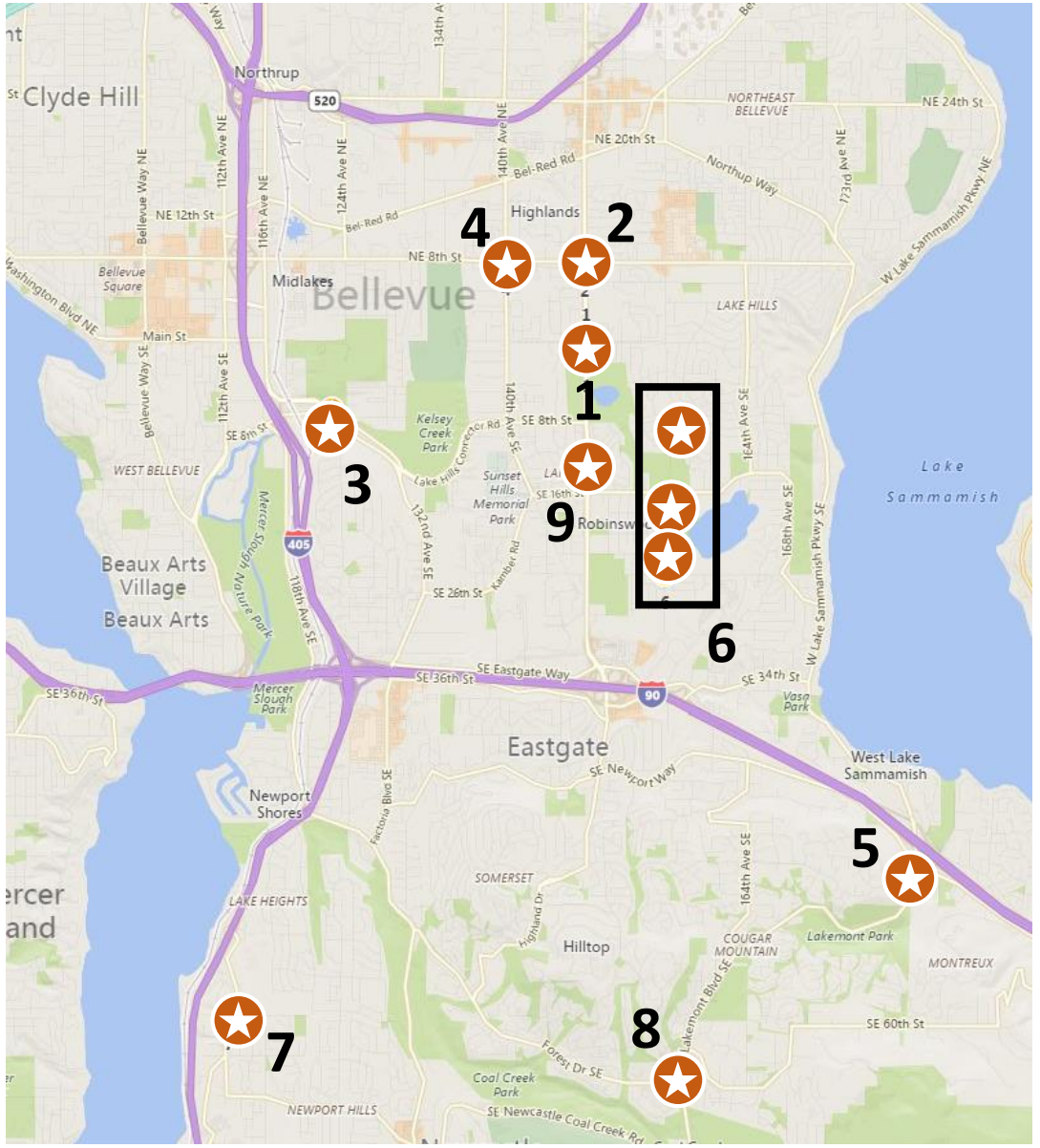
- 112th Ave NE/NE 24th Street Traffic Signal, Construction 2020

CONSTRUCTION

- SE Newport Way/164th Ave SE Mini-Roundabout, Complete Oct. 2019
- 150th Ave SE/SE Newport Way SB Right Turn Pocket, Complete Spring 2020

2019 Traffic Analysis Projects

1. Main St/148th Ave & Kelsey Creek Plaza access
2. 148th Ave NE/NE 8th St
3. SE 8th St/Lake Hills Connector
4. NE 8th St/140th Ave NE
5. Newport Way/Lakemont Blvd
6. 156th Ave SE @ Lake Hills Blvd, SE 16th St & SE 24th St
7. Lk Washington Blvd/SE 60th St
8. Lakemont Blvd/Forest Dr
9. 148th Ave NE/Lk Hills Blvd



2019 Traffic Analysis Project Scoring

Item	Location	Tier 2 Total	Estimated Cost (millions)
1	150th Ave SE & SE 37th St	82	$2.60
2	SE 8th St & Lake Hills Connector	81	$1.90
3	156th Ave SE & Lake Hills Blvd	81	$1.50
4	150th Ave SE & SE Eastgate Way	81	$5.10
5	Lake Hills Blvd & 148th Ave NE	76	$1.30
6	Main St & 148th Ave NE	69	$2.40
7	NE 8th St & 140th Ave NE	63	$1.60
8	NE 8th St & 148th Ave NE	62	$3.30
9	SE Newport Way & Lakemont Blvd	60	$3.50
10	Factoria Blvd & SE 38th St	60	$0.30
11	SE Forest Dr & Lakemont Blvd	28	$2.10
12	SE 60th St & Lake Washington Blvd SE	23	$2.50

2020/2021 Funding Allocation

Location	Approach
150th Ave SE & SE 37th St	60% Design in 2020, Shop for grant funding
150th Ave SE & SE Eastgate Way	60% Design in 2020, Shop for grant funding
SE 8th St & Lake Hills Connector	60% Design in 2020, Consider for construction in 2021
156th Ave SE & Lake Hills Blvd	60% Design in 2020, Consider for construction in 2021
Lake Hills Blvd & 148th Ave NE	Final Design in 2020, Construction 2021
Factoria Blvd & SE 38th St	Final Design in 2019, Construction 2020

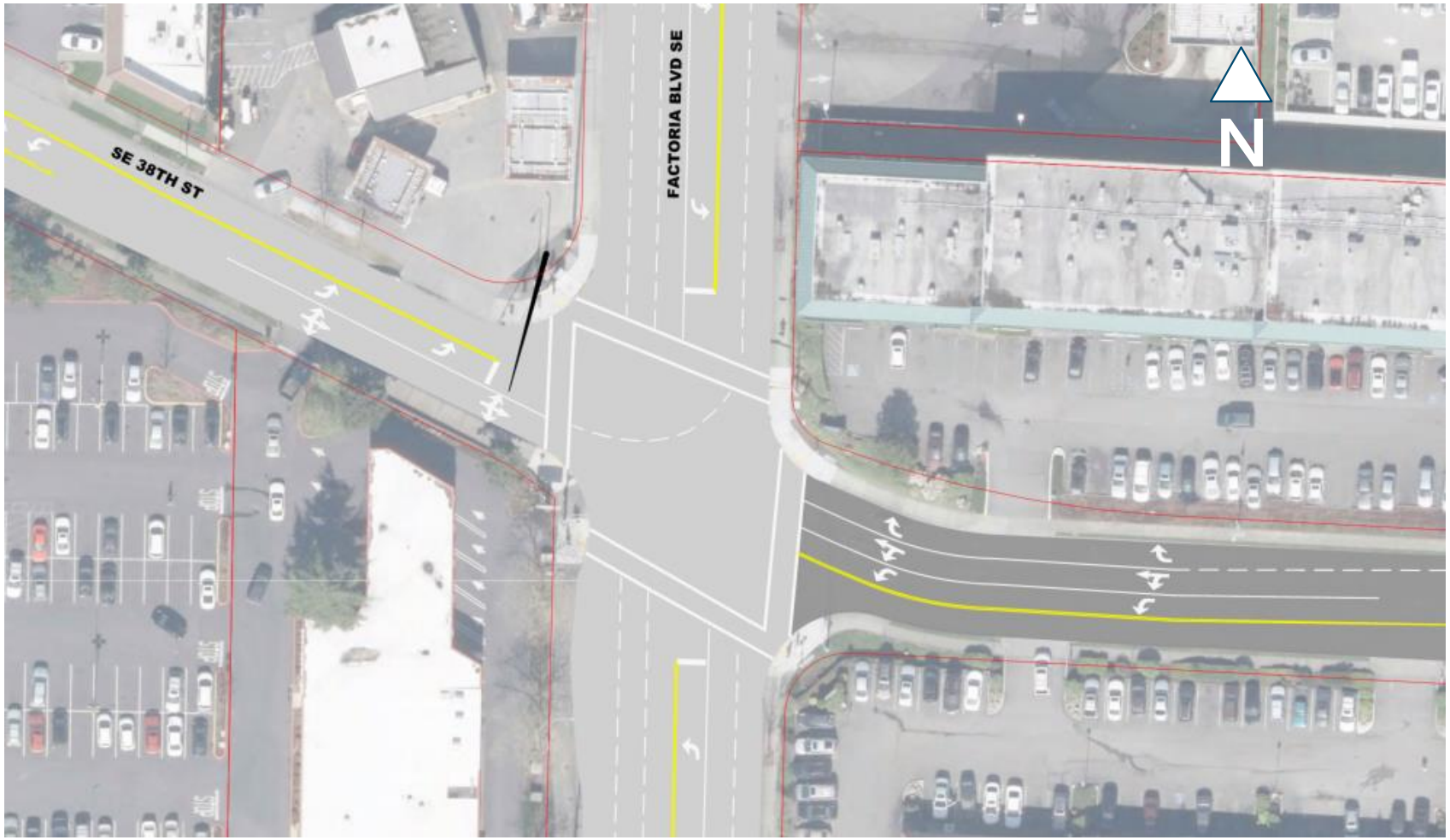
Factoria Blvd at SE 38th St (Existing)

Existing v/c: 0.86

Factoria Blvd at SE 38th St (Proposed)

Future No-Build v/c: 1.07

Future Build v/c: 0.99



Lake Hills Blvd at 148th Ave NE (Existing)

Existing v/c: 0.97

Lake Hills Blvd at 148th Ave NE (Proposed)

Future No-Build v/c: 1.02

Future Build v/c: 0.89

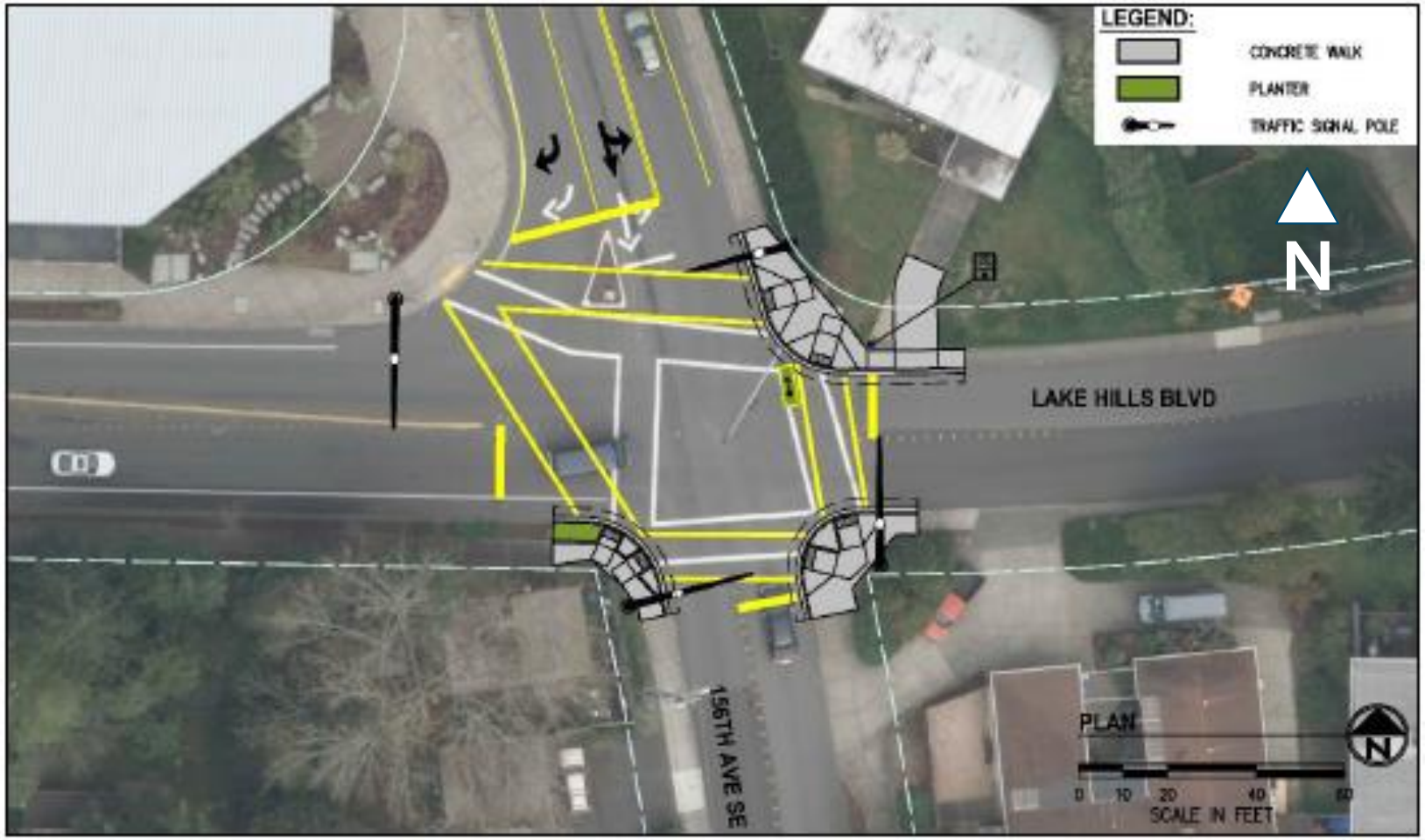
Lake Hills Blvd at 156th Ave SE (Existing)

Existing v/c: LOS E*

Lake Hills Blvd at 156th Ave SE (Proposed)

Future No-Build v/c: LOS F*

Future Build v/c: 0.57, LOS B



SE 8th St at Lake Hills Connector (Existing)

Existing v/c: 1.03

SE 8th St at Lake Hills Connector (Proposed Alternative 1)

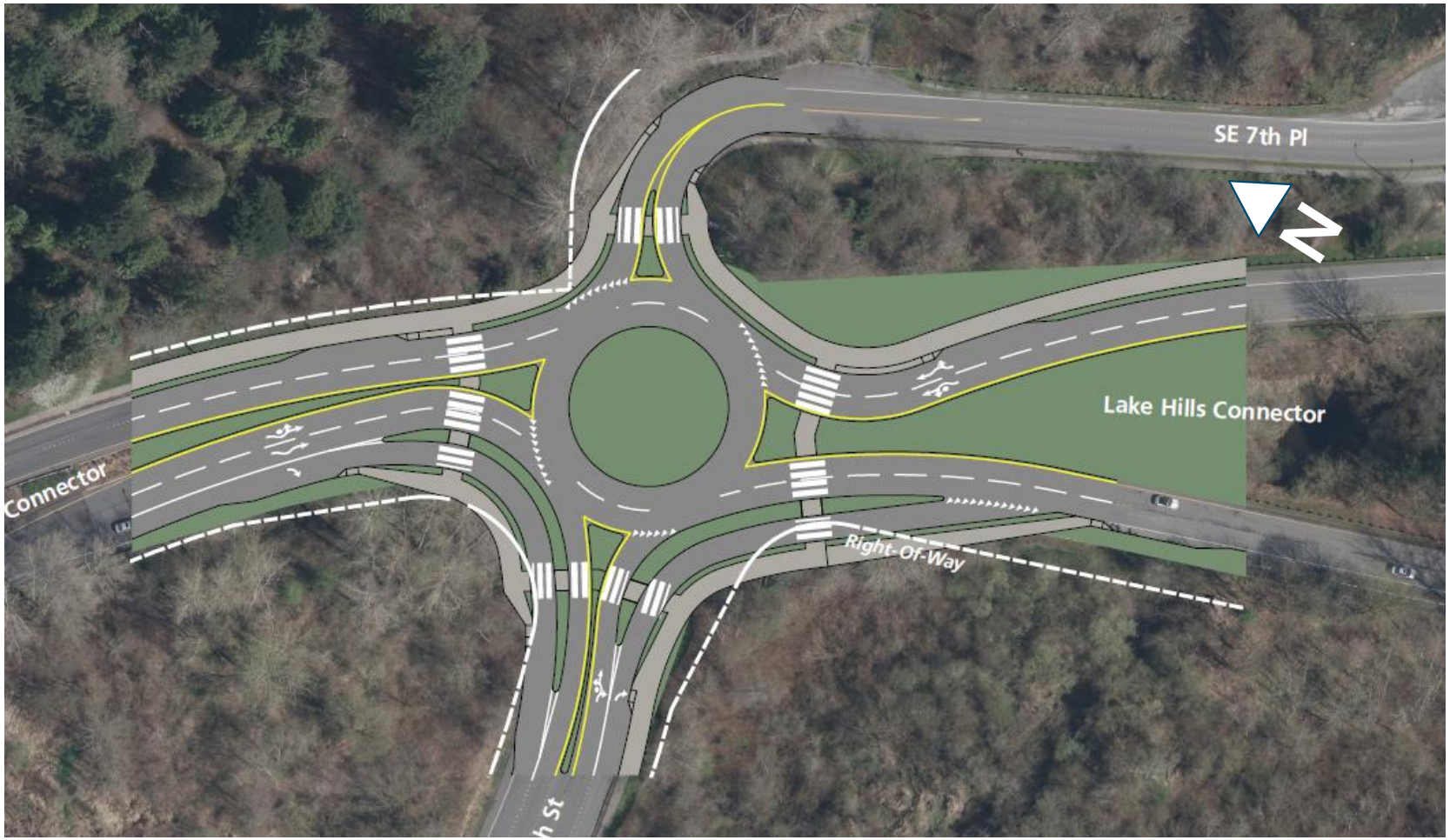
Future No-Build v/c: 1.15

Future Build v/c: 1.03

SE 8th St at Lake Hills Connector (Proposed Alternative 2)

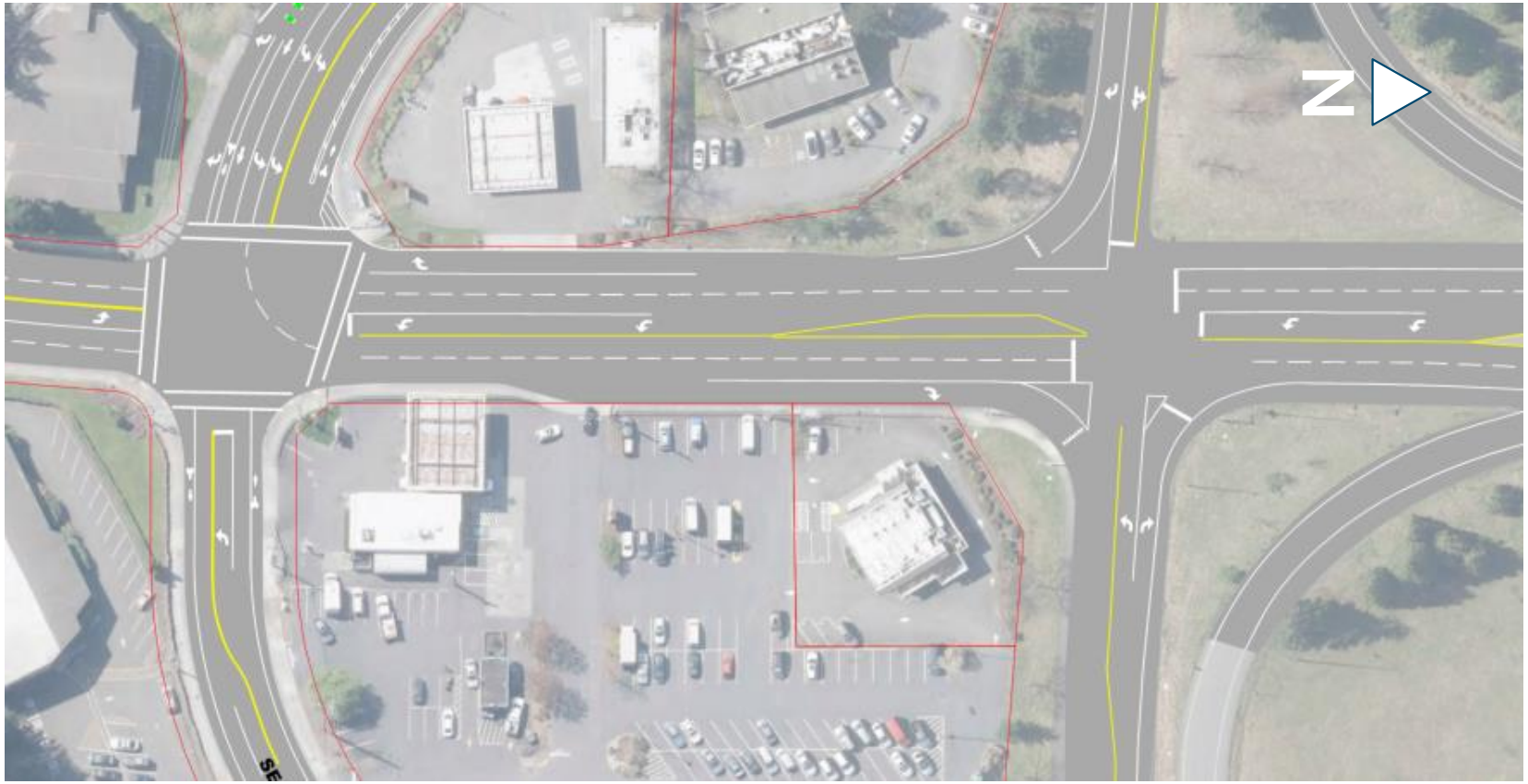
Future No-Build v/c: 1.15

Future Build v/c: 0.86



150th Ave SE at SE 37th St (Existing)

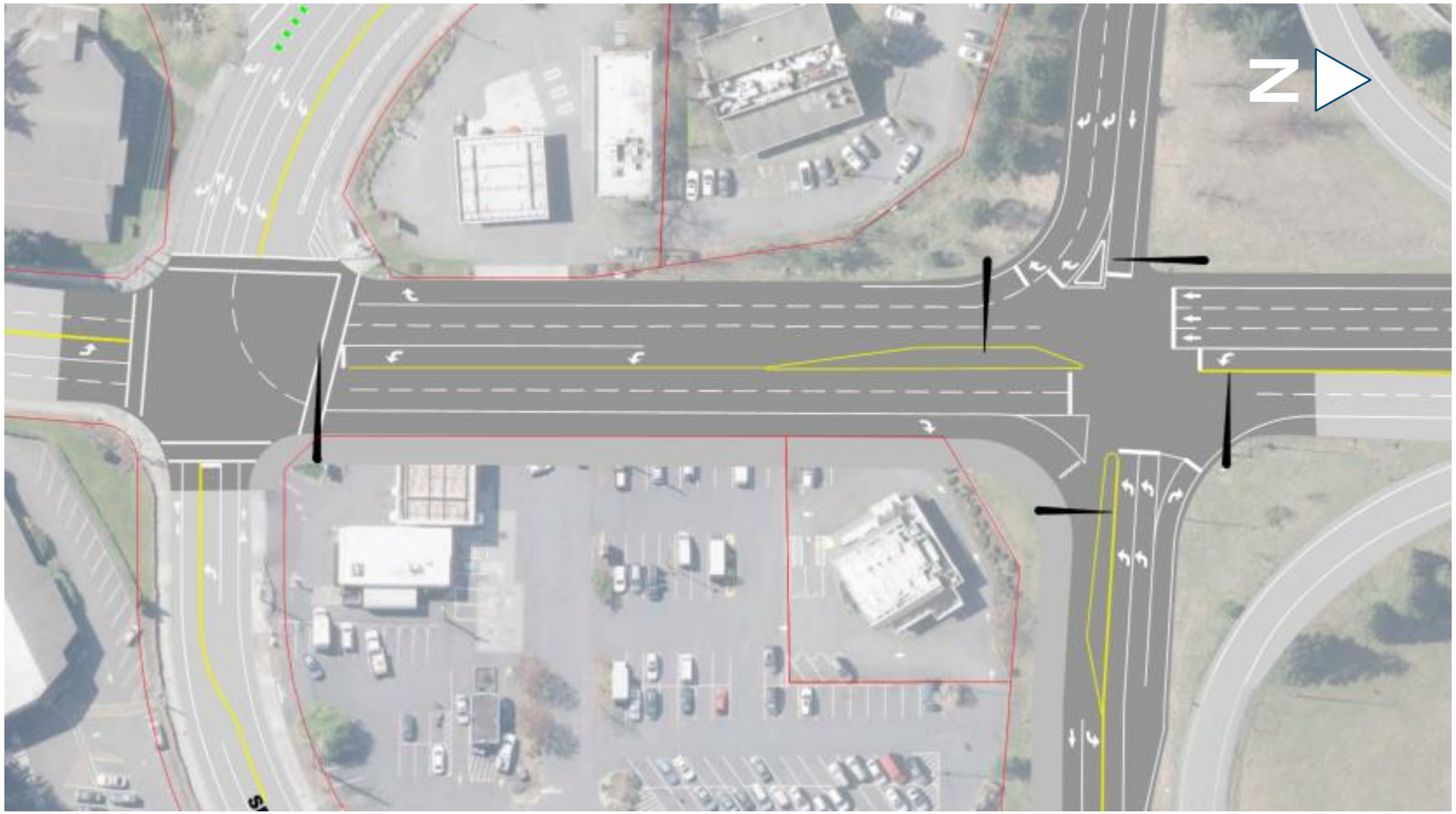
Existing v/c: 0.84



150th Ave SE at SE 37th St (Proposed)

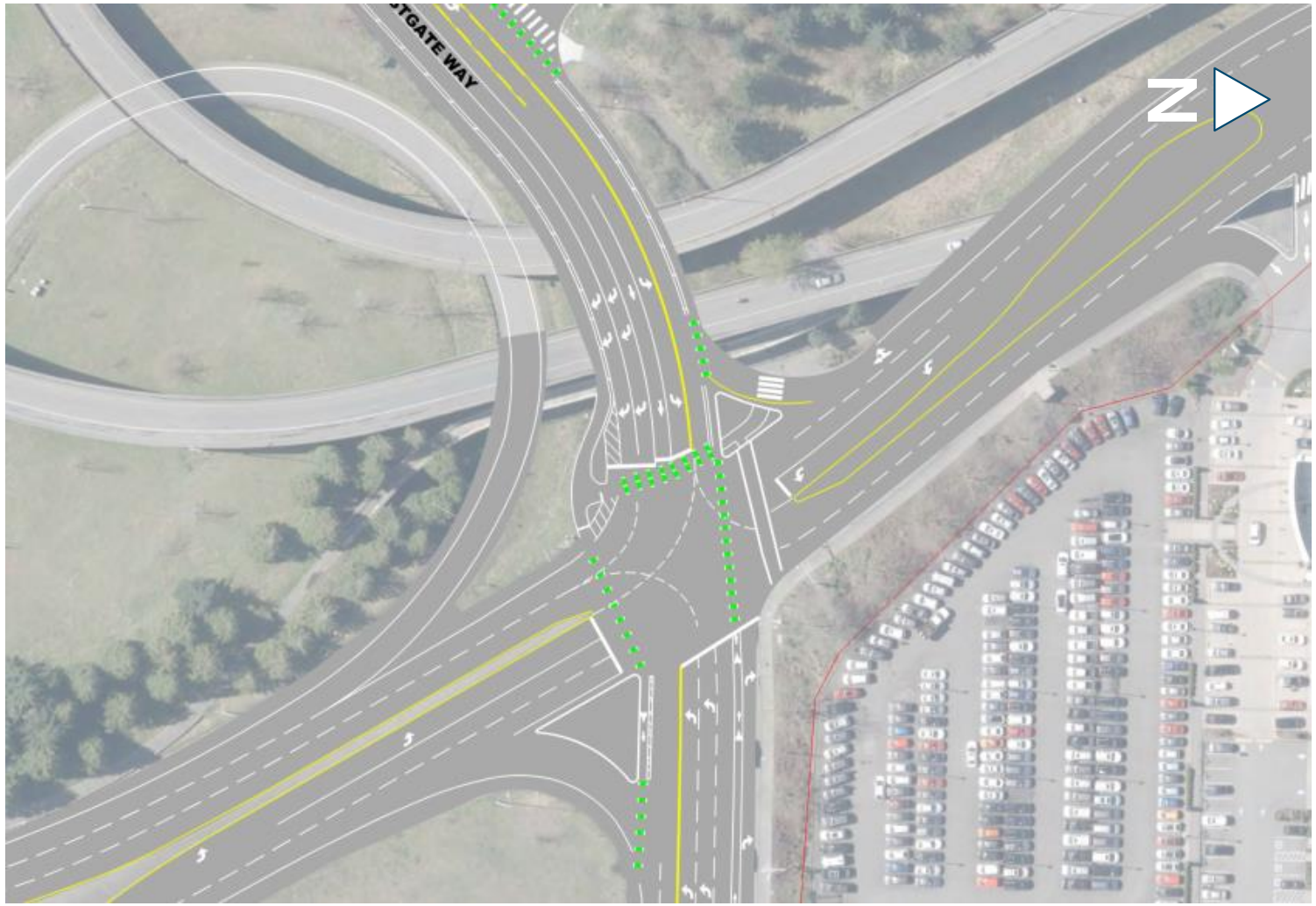
Future No-Build v/c: 1.12

Future Build v/c: 0.73



150th Ave SE at Eastgate Way (Existing)

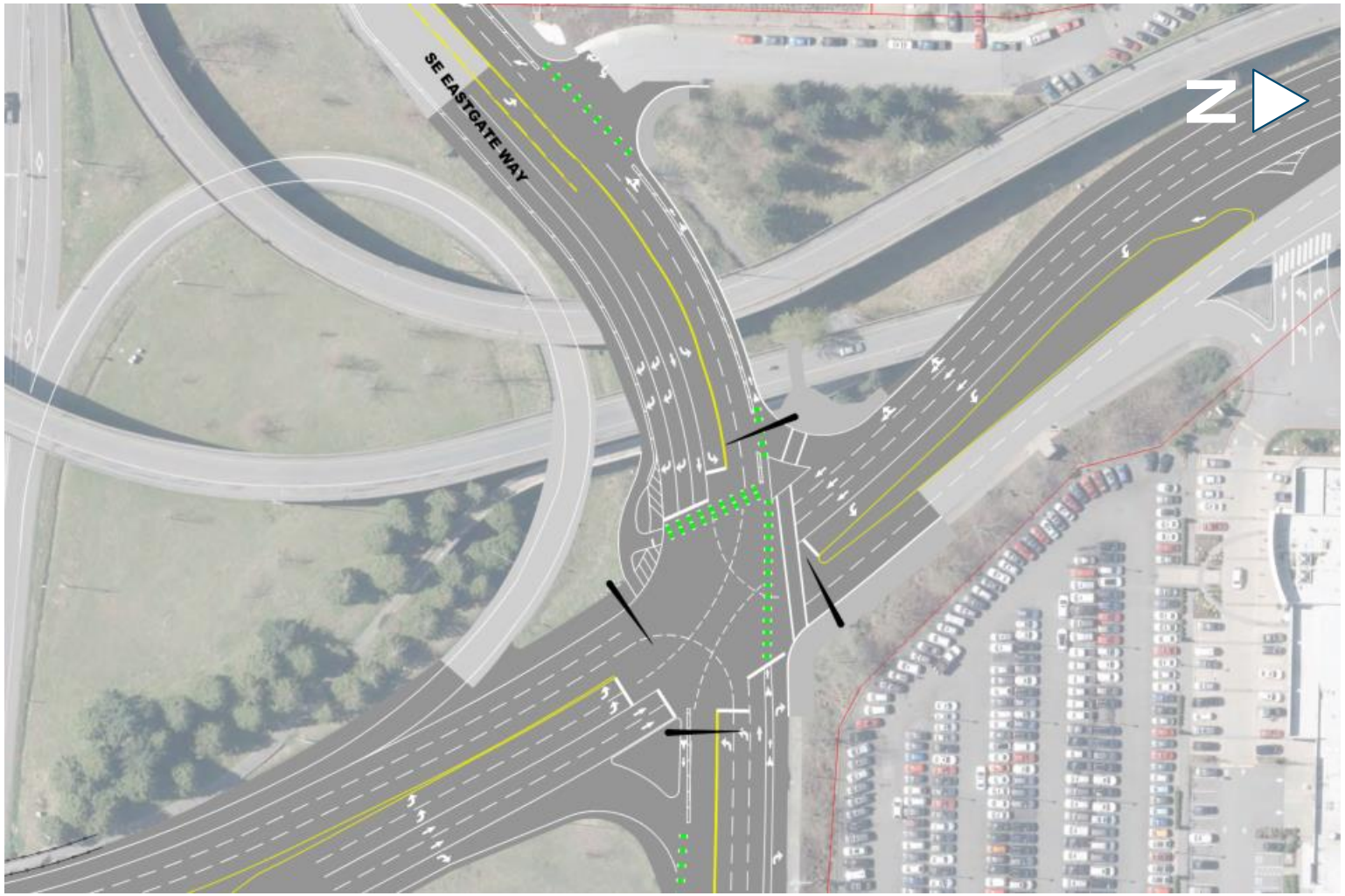
Existing v/c: 0.98



150th Ave SE at Eastgate Way (Proposed)

Future No-Build v/c: 1.31

Future Build v/c: 1.08



Questions

NEIGHBORHOOD LEVY PROJECT

TRANSPORTATION

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Supporting Slides

SE 16th St at 156th Ave SE (Existing)

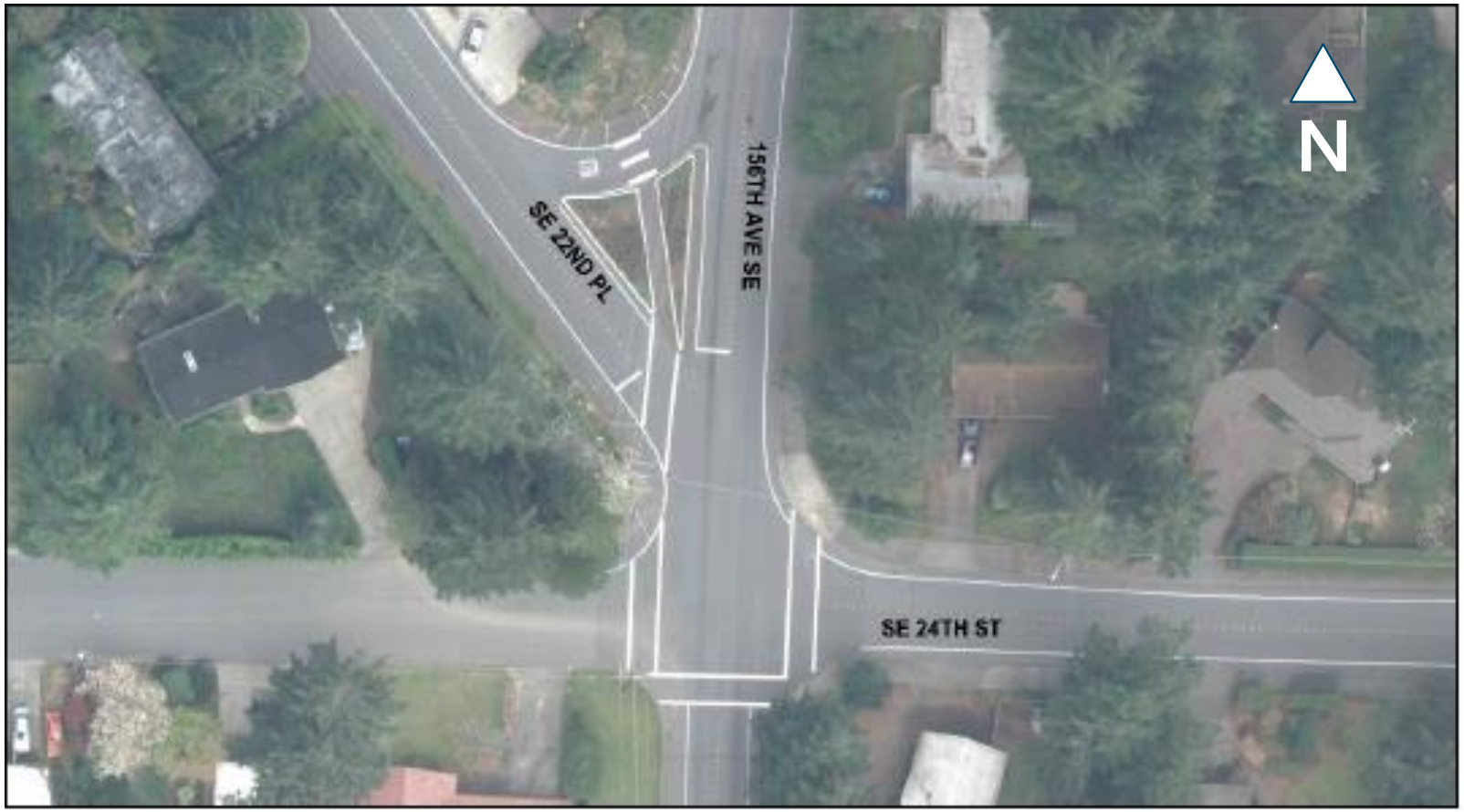
Existing v/c: LOS D*

SE 16th St at 156th Ave SE (Proposed)

Future No-Build v/c: LOS E*

SE 24th St at 156th Ave SE (Existing)

Existing v/c: LOS E*



SE 24th St at 156th Ave SE (Proposed)

Future No-Build v/c: LOS F*

Lakemont Blvd at Forest Dr (Existing)

Existing v/c: LOS E*

Lakemont Blvd at Forest Dr (Proposed)

Future No-Build v/c: LOS E*

Future Build v/c: 0.82, LOS B

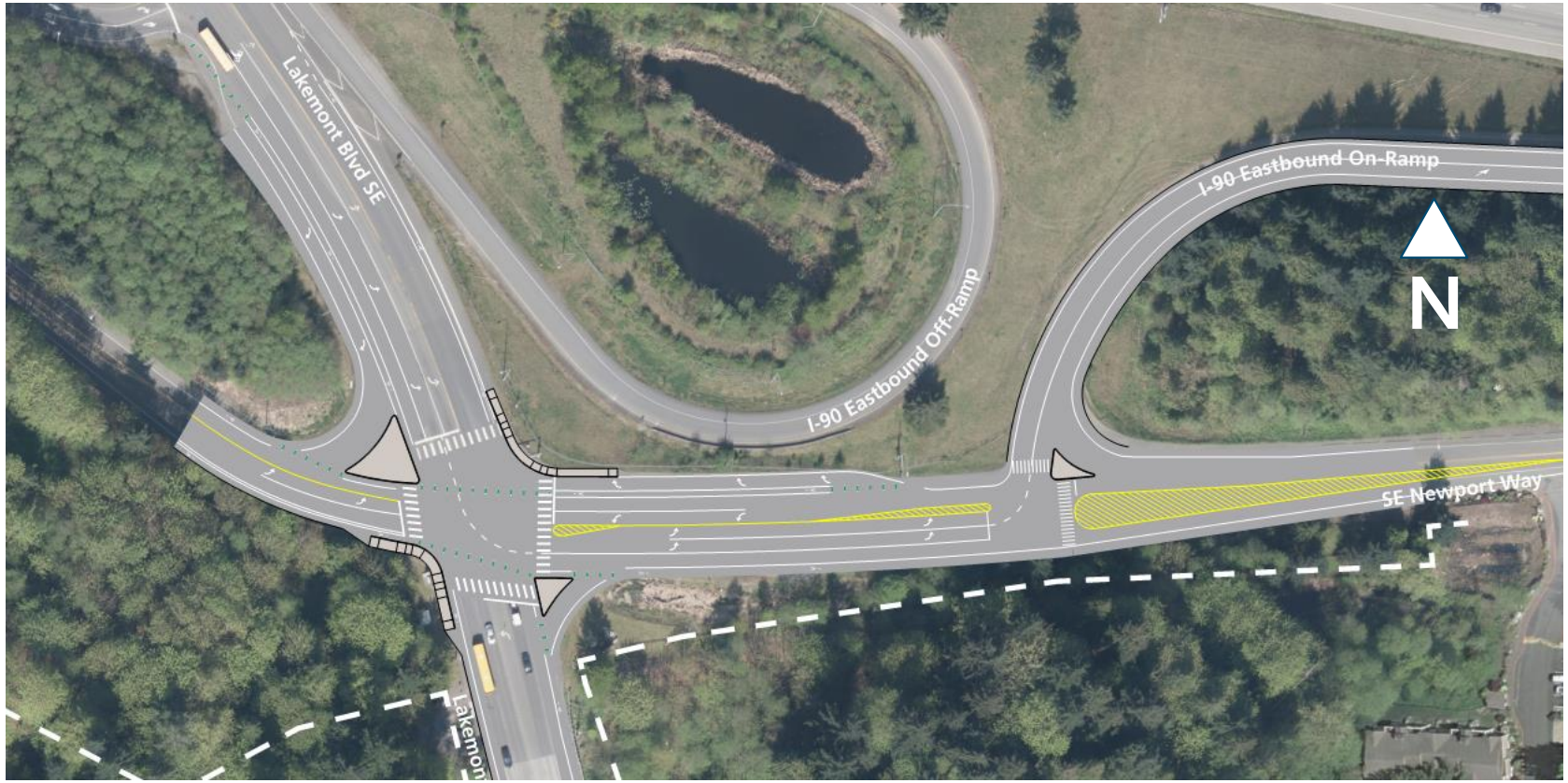
Lakemont Blvd at Newport Wy (Existing)

Existing v/c: 0.86

Lakemont Blvd at Newport Wy (Proposed Alternate 1)

Future No-Build v/c: 0.84

Future Build v/c: 0.76



Lakemont Blvd at Newport Wy (Proposed Alternate 2)

Future No-Build v/c: 0.84

Future Build v/c: 0.77

NE 8th St at 140th Ave NE (Existing)

Existing v/c: 0.79

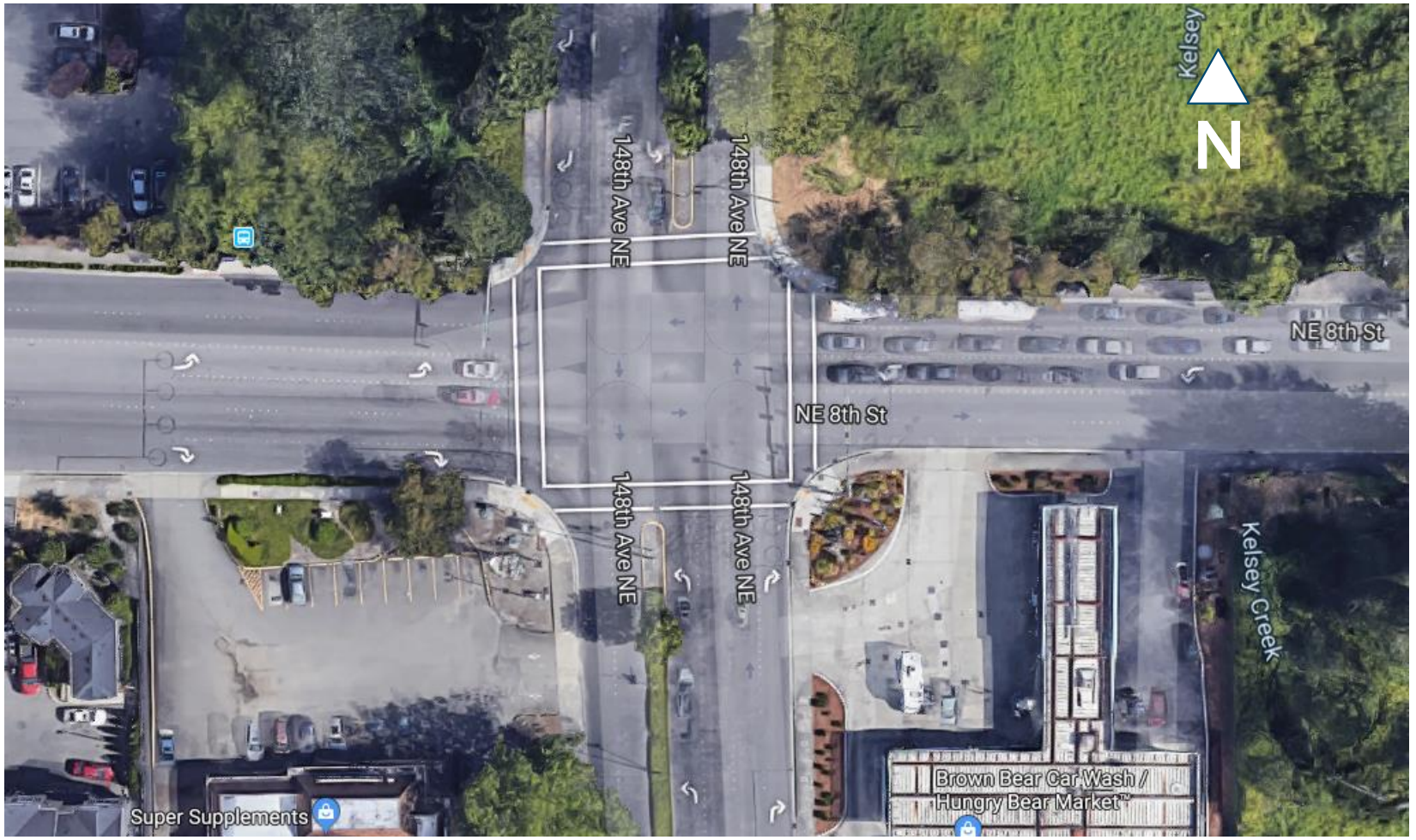
NE 8th St at 140th Ave NE (Proposed)

Future No-Build v/c: 0.92

Future Build v/c: 0.78

NE 8th St at 148th Ave NE (Existing)

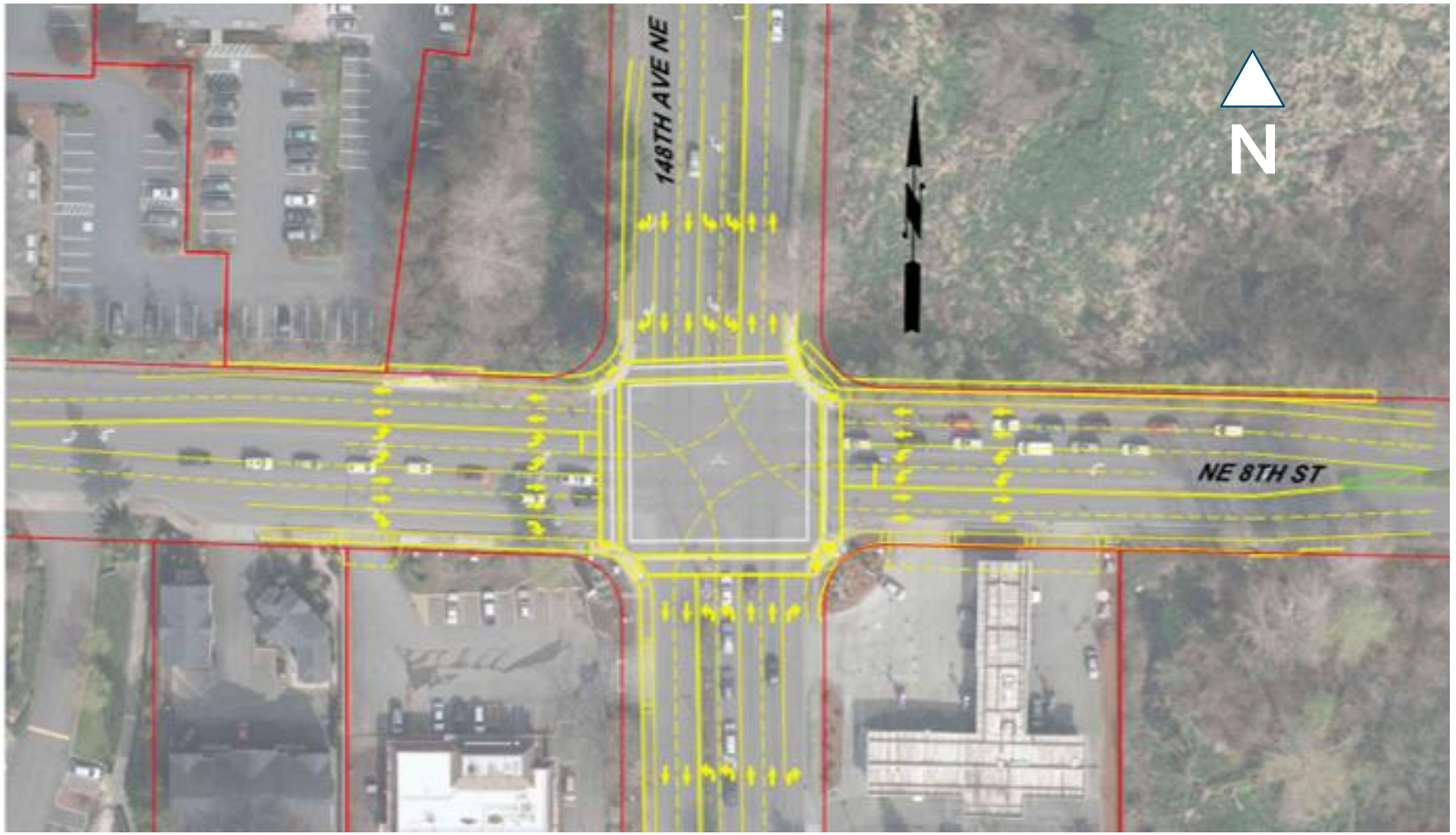
Existing v/c: 0.92



NE 8th St at 148th Ave NE (Proposed)

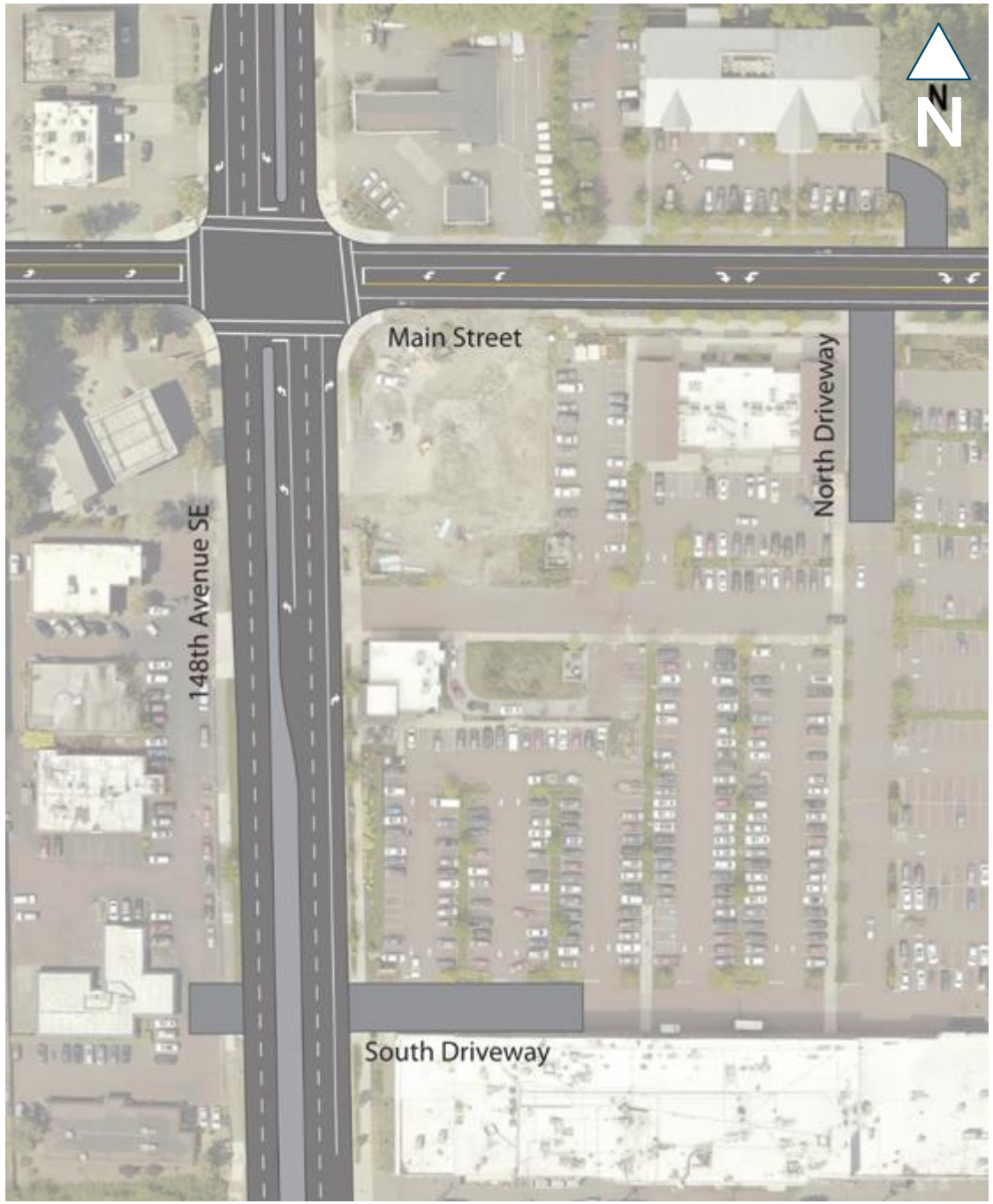
Future No-Build v/c: 1.03

Future Build v/c: 0.97



Main St at 148th Ave NE (Existing)

Existing v/c: 0.95



Main St at 148th Ave NE (Proposed)

Future No-Build v/c: 0.95

Future Build v/c: 0.93