



City of Bellevue

CITY OF BELLEVUE
NEIGHBORHOOD SAFETY,
CONNECTIVITY &
CONGESTION LEVY

Eastgate Transportation Study

Transportation Commission Recommendation and Final Report

Vic Bishop | Transportation Commission
Kevin McDonald | Transportation Department
July 15, 2019

Direction Needed from Council

- Initiate a 2019 Comprehensive Plan Amendment to update the Comprehensive Transportation Project List
- Commence implementation of intersection improvements on w/b SE 38th Street at Factoria Boulevard



AGENDA



Background



Documentation and Analysis



Project Recommendations



Project Implementation



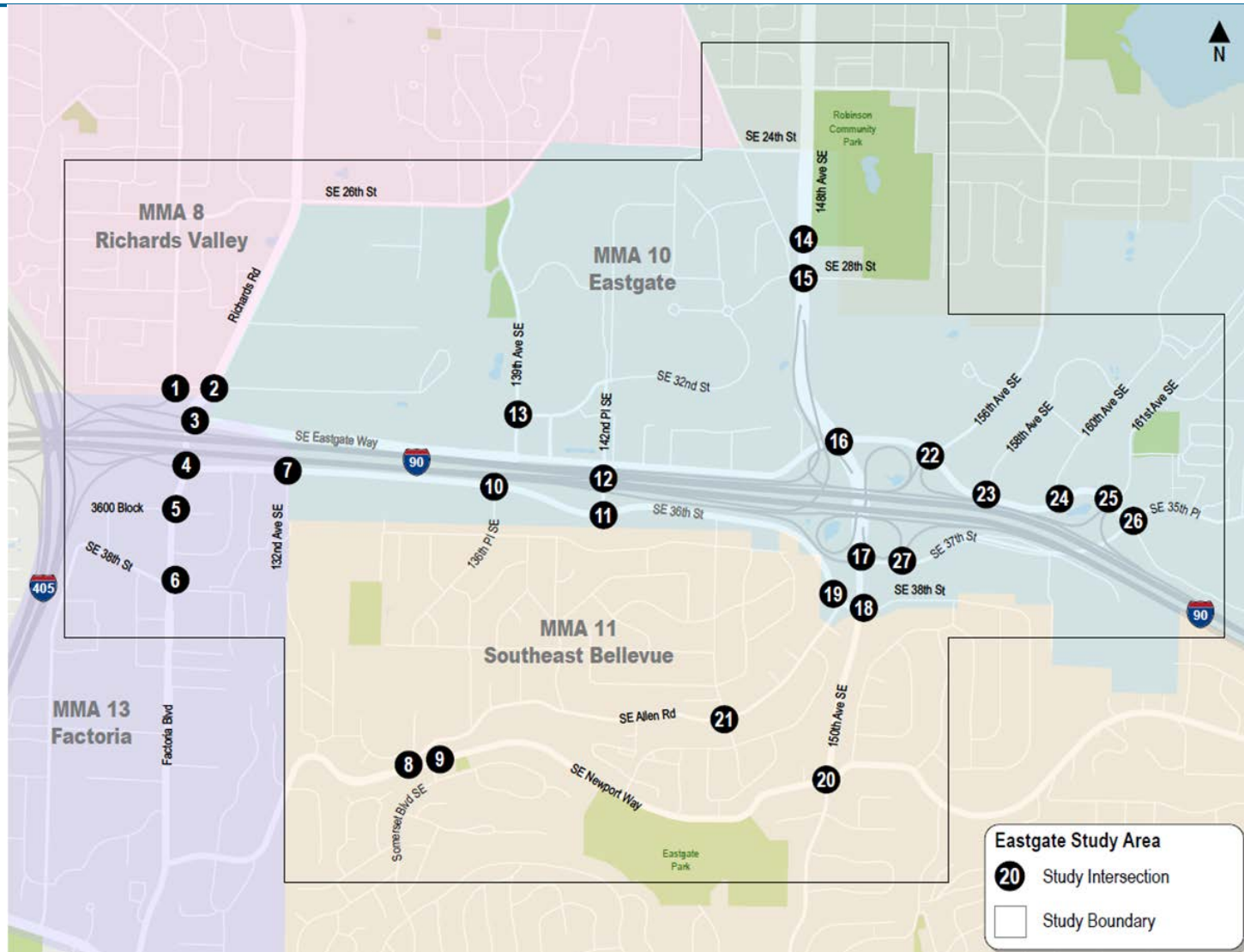
Background

Council asked the Transportation Commission to respond to three requests:

- Quantify existing traffic congestion on arterials in the Eastgate/Factoria area along I-90
- Describe how traffic congestion at intersections and along corridors is likely to change in the future
- Identify infrastructure projects that could be built to provide congestion reduction in the near-term (2024) and in a 2035 time-frame

Transportation Department Staff and Consultant Team provided support to the Transportation Commission

Eastgate Transportation Study Area



Documenting Traffic Congestion

2018 Existing Conditions

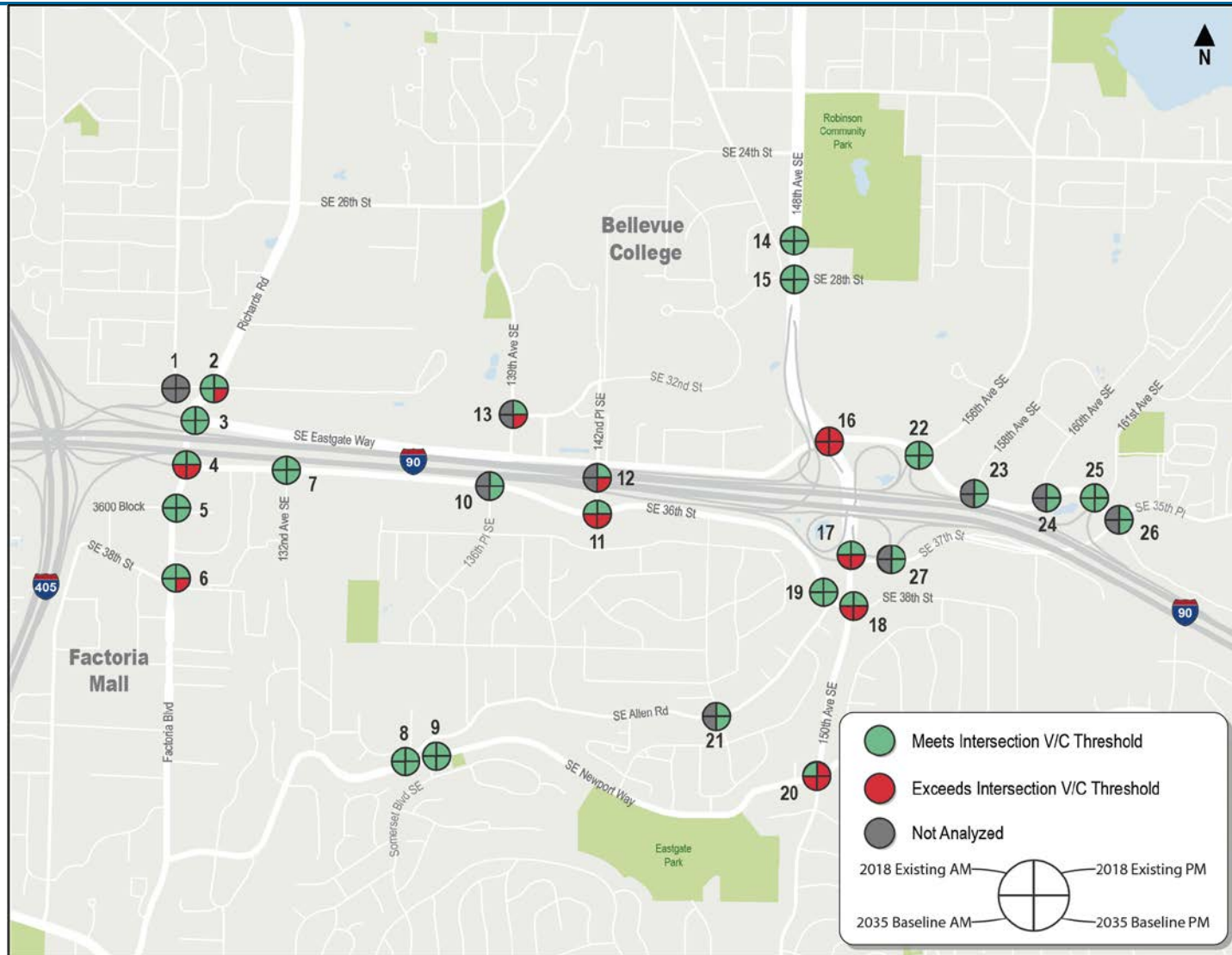
- Intersection Level-of-Service
- Vehicle Travel Speed along Corridors

2035 Baseline

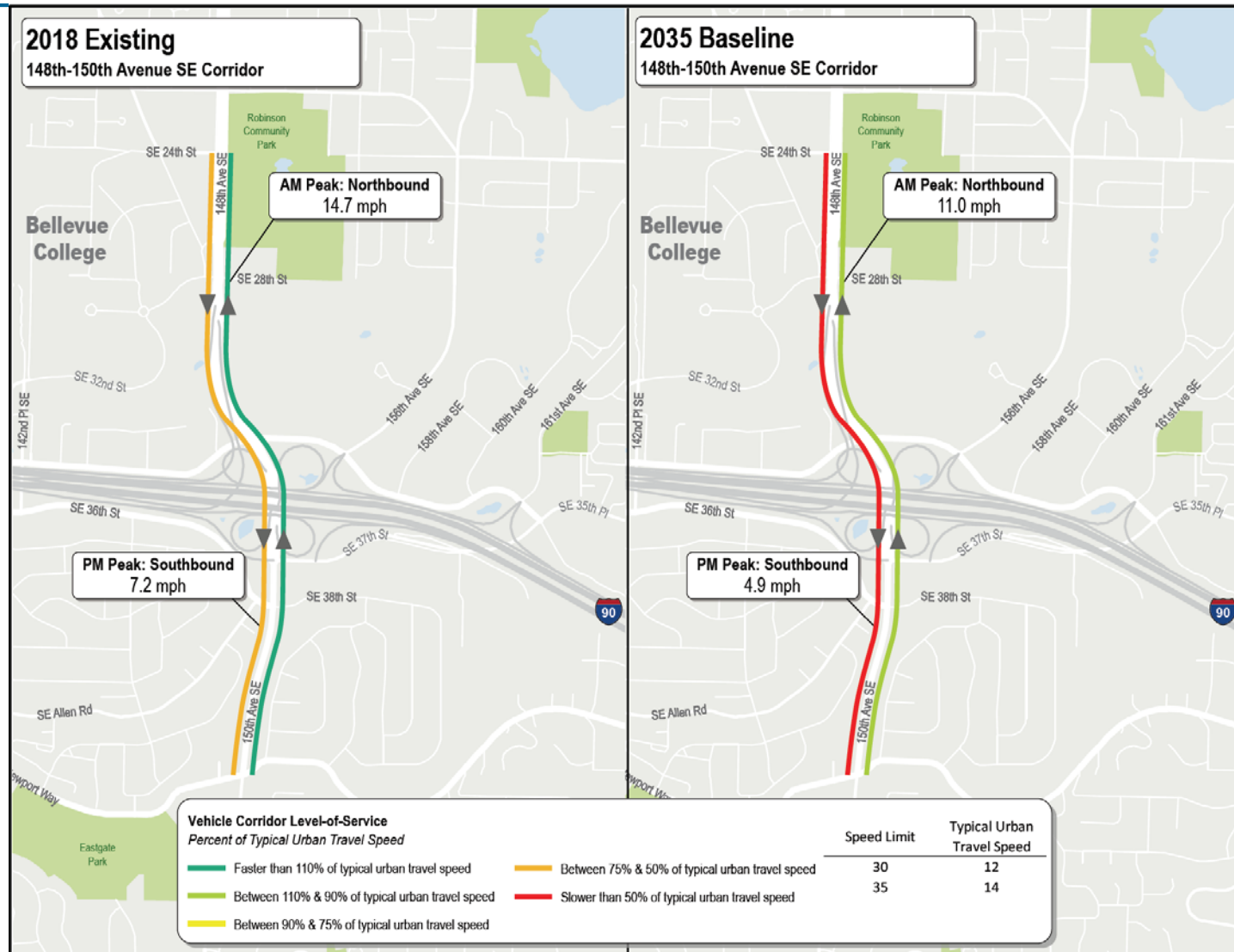
- Same metrics as 2018
- Forecast Land Use Growth
- Assumed Transportation Network
 - Funded infrastructure and transit service



2018 Existing and 2035 Baseline LOS



2018 Existing and 2035 Baseline Speed



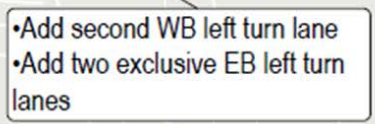
2018 Existing and 2035 Baseline Speed



Developing Project Concepts

- LOS analysis quantified 2035 Baseline congestion
- 20+ Project Concepts identified
- Traffic modeling used to quantify potential congestion reduction
- Project performance evaluated against the 2035 Baseline
- Multimodal and cost/benefit analysis screened out some projects



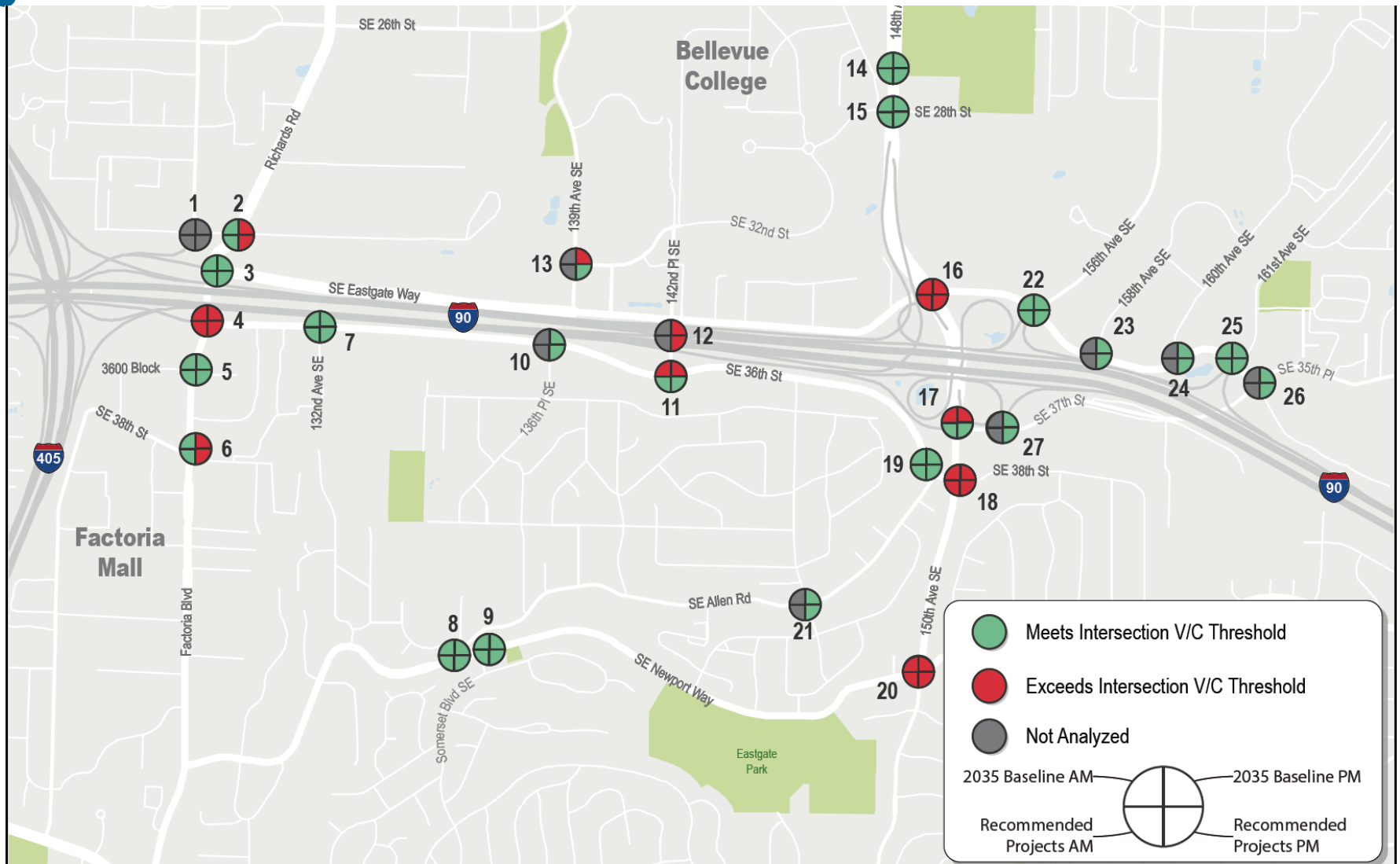


11

Recommended Projects - \$\$

ID	Location	Cost Estimate (\$ Thousands)
A	Factoria Boulevard SE & EB I-90 Off-Ramp/SE 36th Street	Additional Study Needed*
B	Factoria Boulevard SE & SE 38th Street	\$950
C	139th Avenue SE & SE 32nd Street	\$930
D	142nd Place SE & SE 36th Street	\$810
E	150th Avenue SE & SE Eastgate Way	\$5,040
F	150th Avenue SE & SE 37th Street & I-90 EB Off-Ramp	\$2,565
G	150th Avenue SE & SE 38th Street	\$545
H	SE 37th Street & I-90 EB On-Ramp	\$450
I	SE 37th Street & SE Eastgate Way	\$1,150

Project Performance: 2035 V/C



Project Performance: 2035 Travel Speed

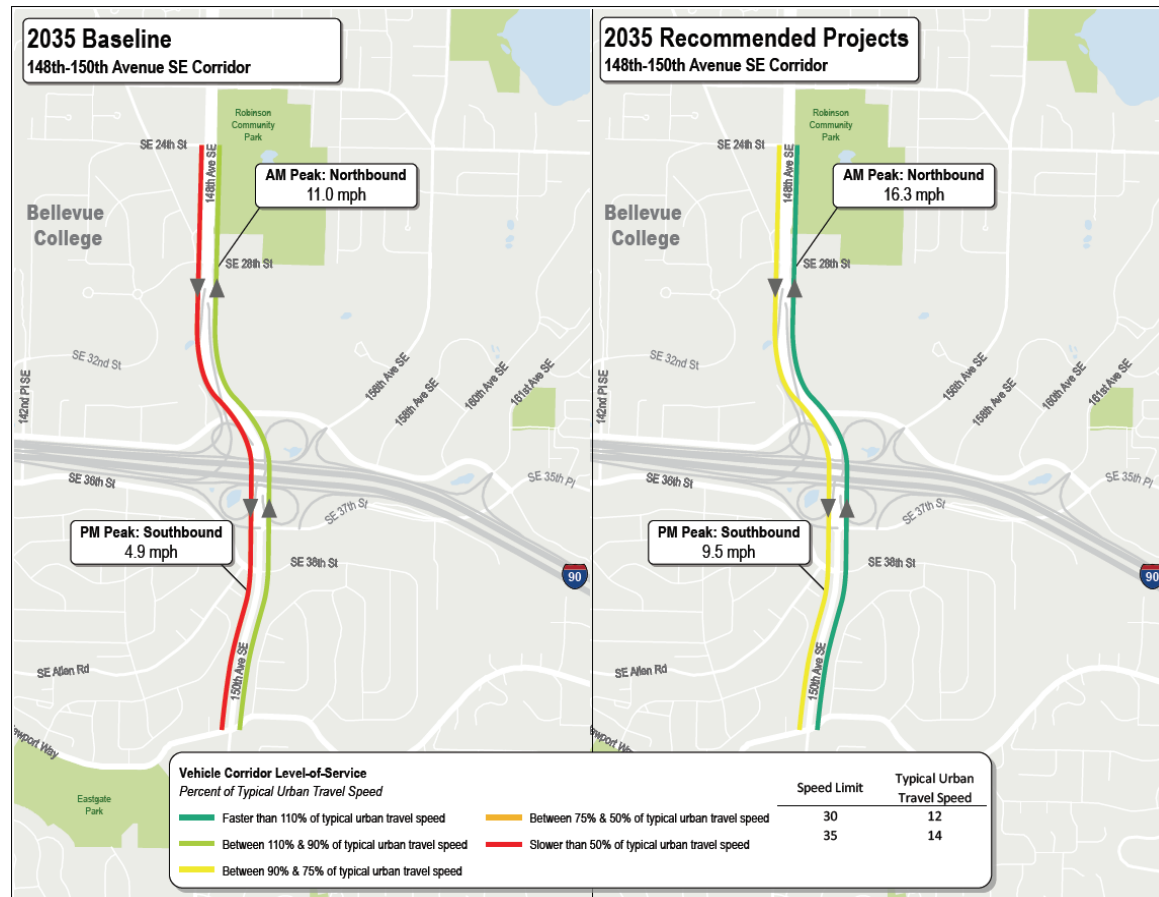
148th/150th Avenue SE

2035 AM Peak - Northbound

- Baseline: 11.0 mph
- Recommended: 16.3 mph
(48% faster)

2035 PM Peak - Southbound

- Baseline: 4.9 mph
- Recommended: 9.5 mph
(93% faster)



Project Performance: 2035 Travel Speed

Richards Road/ Factoria Boulevard

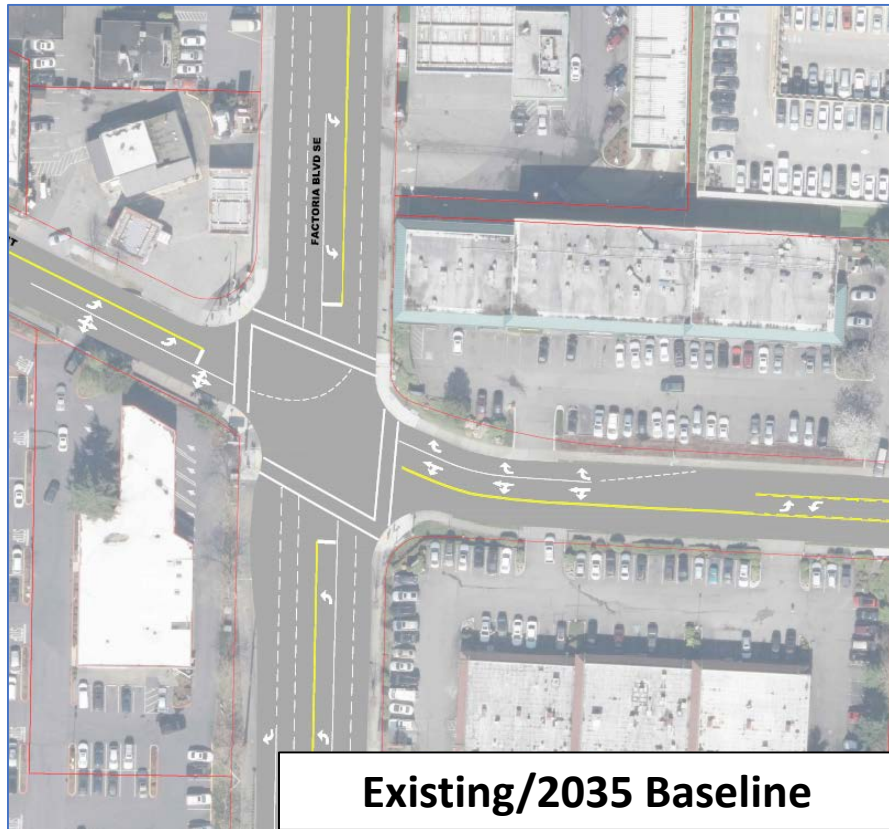
2035 PM Peak - Southbound

- Baseline: 3.6 mph
- Recommended: 4.0 mph
(12% faster)



Example Project Design

SE 38th Street at Factoria Boulevard



Implementation

Recommended projects have little to no standing to compete for funds until adopted

- Comprehensive Transportation Project List
- Transportation Improvement Program
- Transportation Facilities Plan



Implementation

Eligible for funding when adopted – yet will compete citywide with other eligible projects

- Neighborhood, Safety, Connectivity and Congestion Levy
 - ❖ Early Implementation for the westbound approach to Factoria Boulevard @ SE 38th Street! ~\$175K
- Capital Improvement Program Plan
- Grants



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