



Eastgate Transportation Study

Final Project
Recommendations
June 27, 2019

Transportation
Commission

Introductions

City Project Management Staff

- Jeremy Chin
- Kevin McDonald

Planning Lead

Chris Breiland, Fehr & Peers

Modeling Lead

Tony Woody, Concord Engineering



Presentation Outline

Brief Project Overview

Review Final Report/Projects

- Commission Comments & Edits

Commission Action

- ☐ Approve Final Report
- ☐ Approve Transmittal Memo
- ☐ Select Commissioner to Council



Project Overview

Eastgate Transportation Study

Council Direction

Transportation Commission charged with responding to two requests:

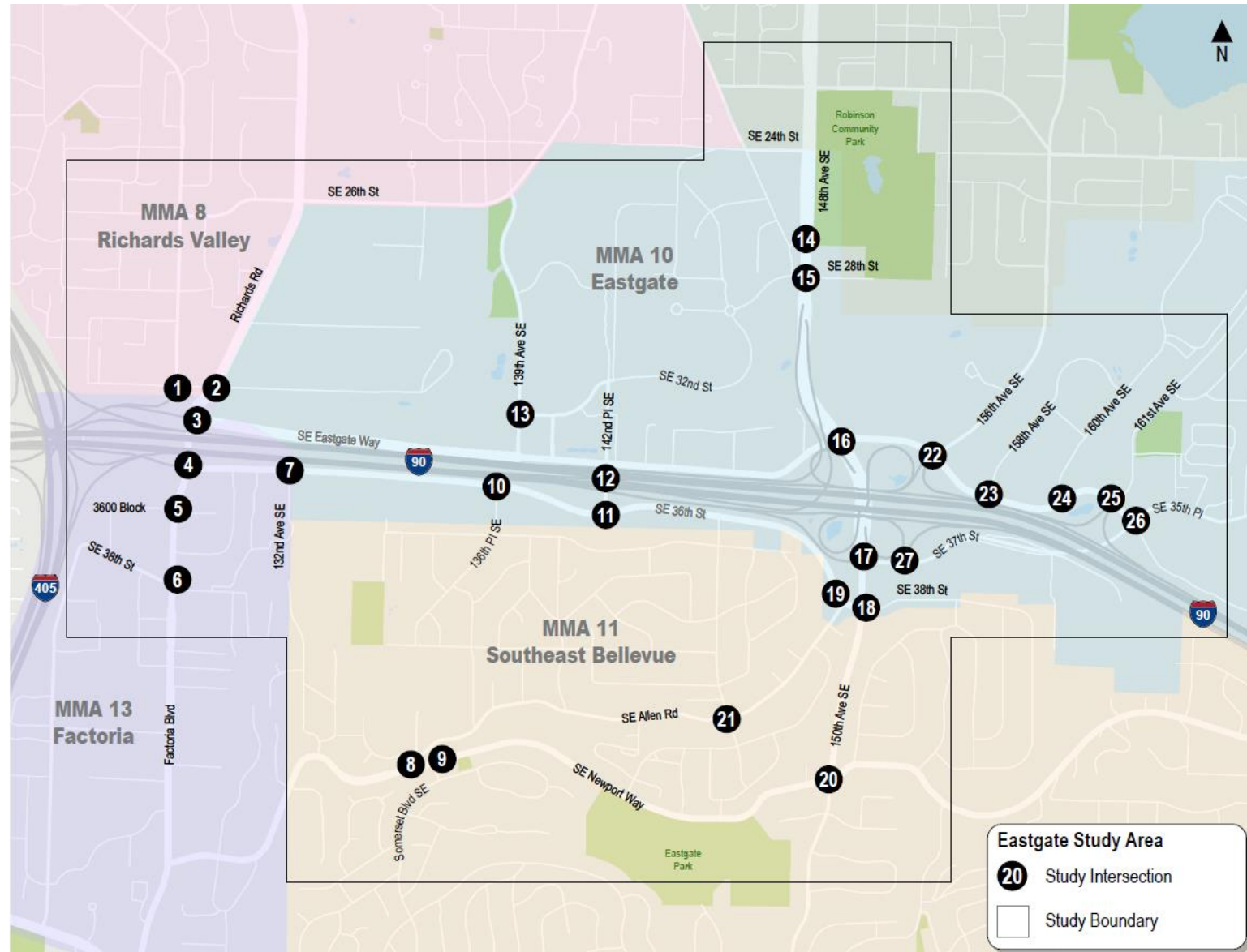
- Describe how traffic congestion is likely to change in the future given forecast land use changes
- What traffic congestion reduction projects would provide congestion reduction in the near term (2024) and in a 2035 time-frame



Study Area Overview

Eastgate/Factoria Study Area

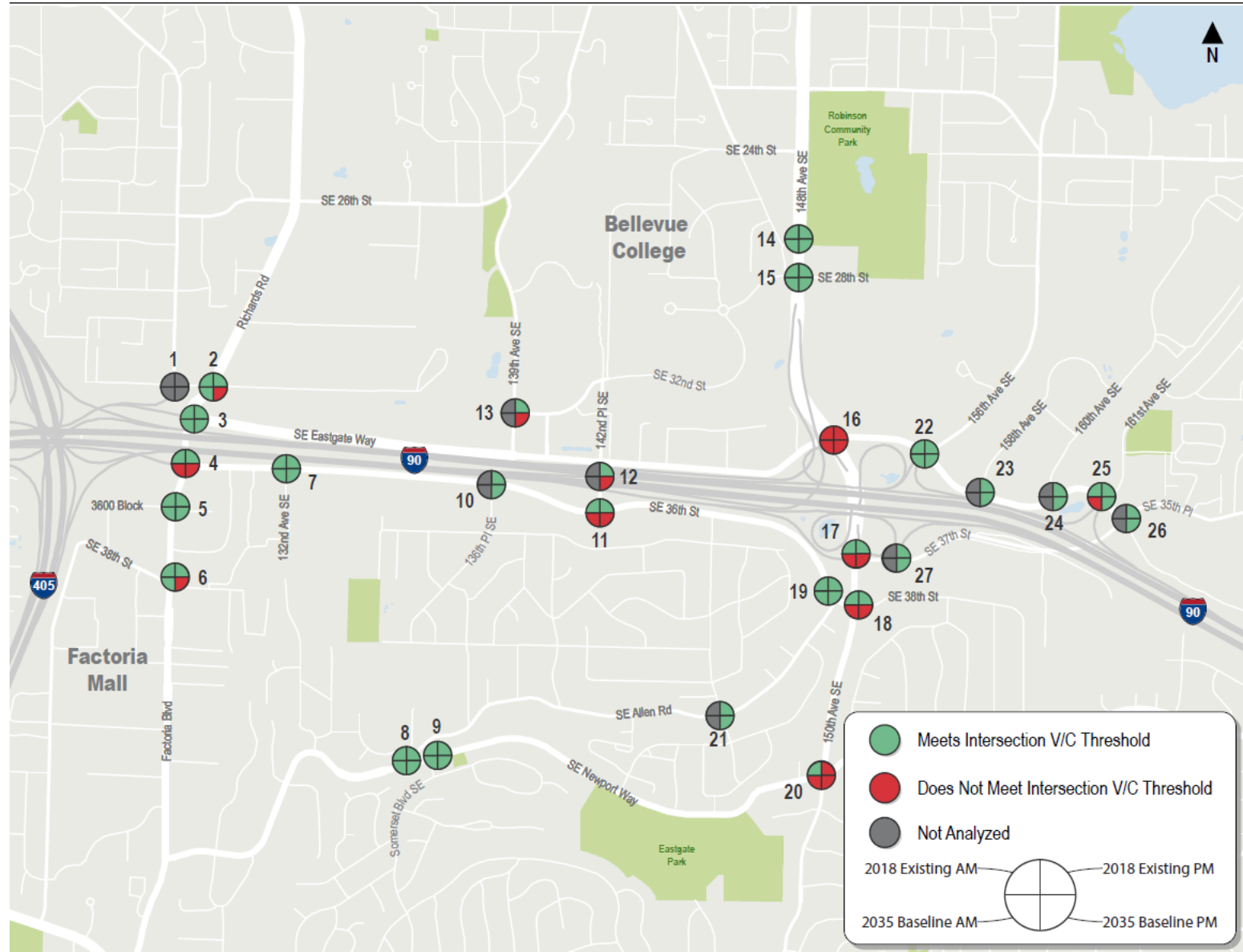
- 4 Mobility Management Areas (MMAs)
- 27 Study Intersections
- Focused on N/S Corridors
 - 148th/150th Avenue SE
 - Richards Road-Factoria Boulevard
- AM and PM Peak Times Analyzed
 - 8:00-9:00 AM (19 intersections)
 - 4:30-5:30 PM (27 intersections)



Volume/Capacity at Intersections

- 2018: 18 of 19 **meet** threshold
- 2035: 12 of 19 **meet** threshold

- 2018: 25 of 27 **meet** threshold
- 2035: 17 of 27 **meet** threshold



2018 Existing and 2035 Baseline

Vehicle Travel Speed

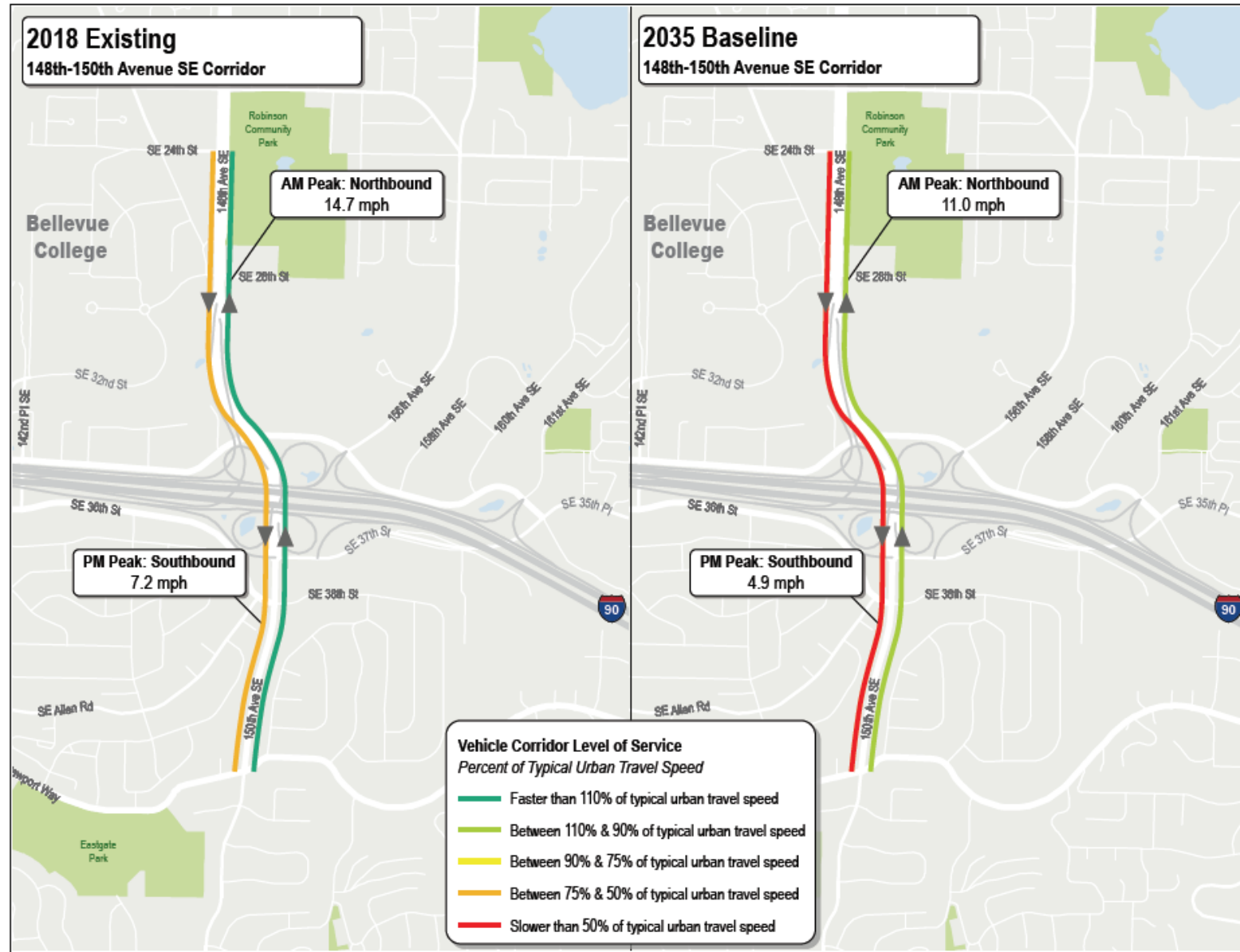
148th/150th Avenue SE

AM Peak - Northbound

- 2018: 14.7 mph
- 2035: 11.0 mph (25% slower)

PM Peak - Southbound

- 2018: 7.2 mph
- 2035: 4.9 mph (32% slower)



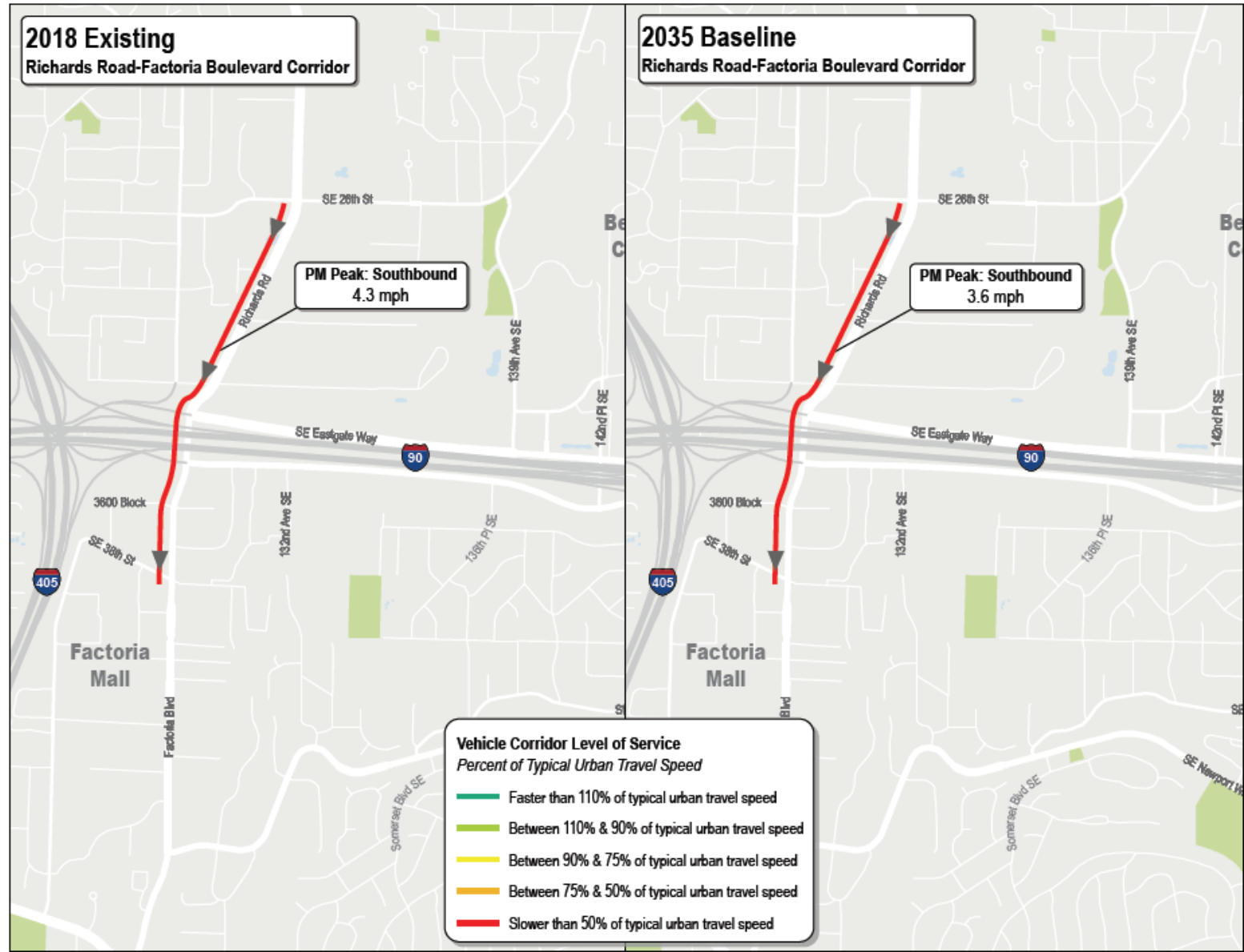
2018 Existing and 2035 Baseline

Vehicle Travel Speed

Richards Road/Factoria Boulevard

PM Peak - Southbound

- 2018: 4.3 mph
- 2035: 3.6 mph (16% slower)



Project Identification Framework

Project Concept Development

- 20+ Project Concepts identified
- Traffic modeling used to assess intersection operations and vehicle travel speed to quantify potential congestion reduction
- Project concept performance evaluated against the 2035 Baseline
- Multimodal and cost/benefit analysis to screen out some projects
- Project recommendations and full analysis documented in final report & appendix





Recommended Projects





2035 Baseline vs. Recommended Projects

Volume/Capacity at Intersections

AM Peak – 2035 Forecast

- Baseline: 12 of 19 **meet** threshold
- Recommended: 13 of 19 **meet** threshold

PM Peak– 2035 Forecast

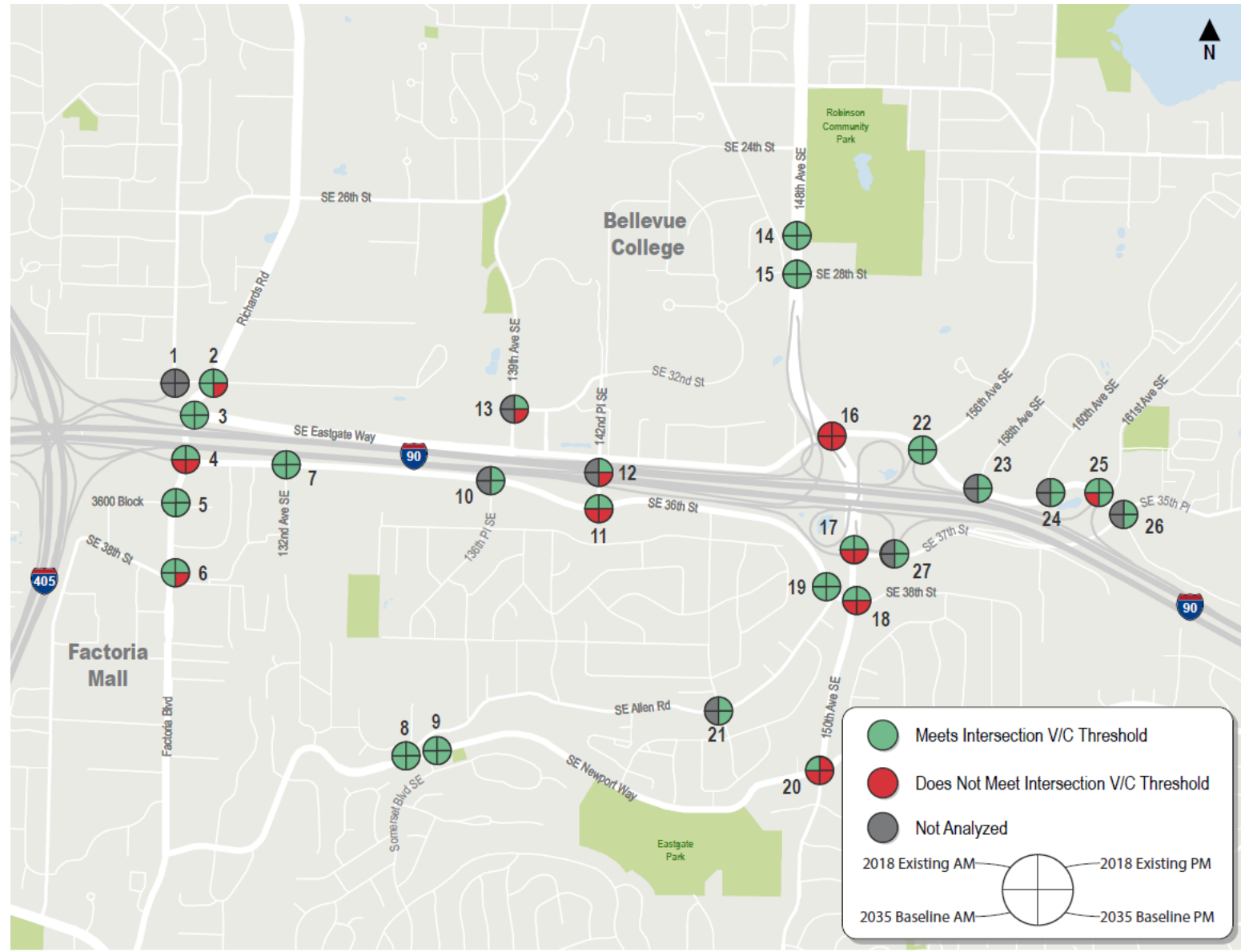
- Baseline: 17 of 27 **meet** threshold
- Recommended: 20 of 27 **meet** threshold

AM Peak – 2035 Forecast

- Baseline: 12 of 19 **meet** threshold
- Recommended: 13 of 19 **meet** threshold

PM Peak– 2035 Forecast

- Baseline: 17 of 27 **meet** threshold
- Recommended: 20 of 27 **meet** threshold



2035 Baseline vs. Recommended Projects

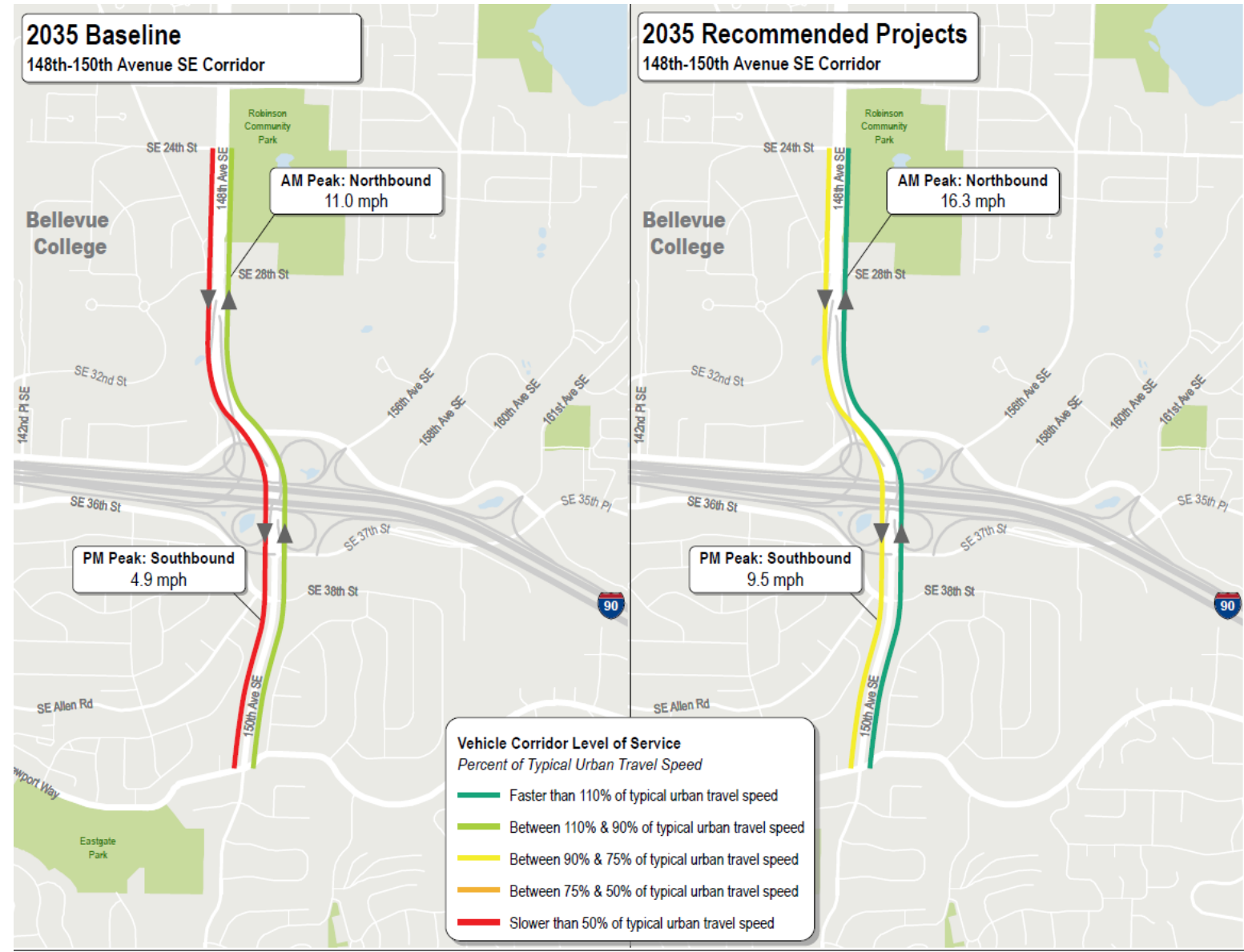
Vehicle Travel Speed 148th/150th Avenue SE

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)



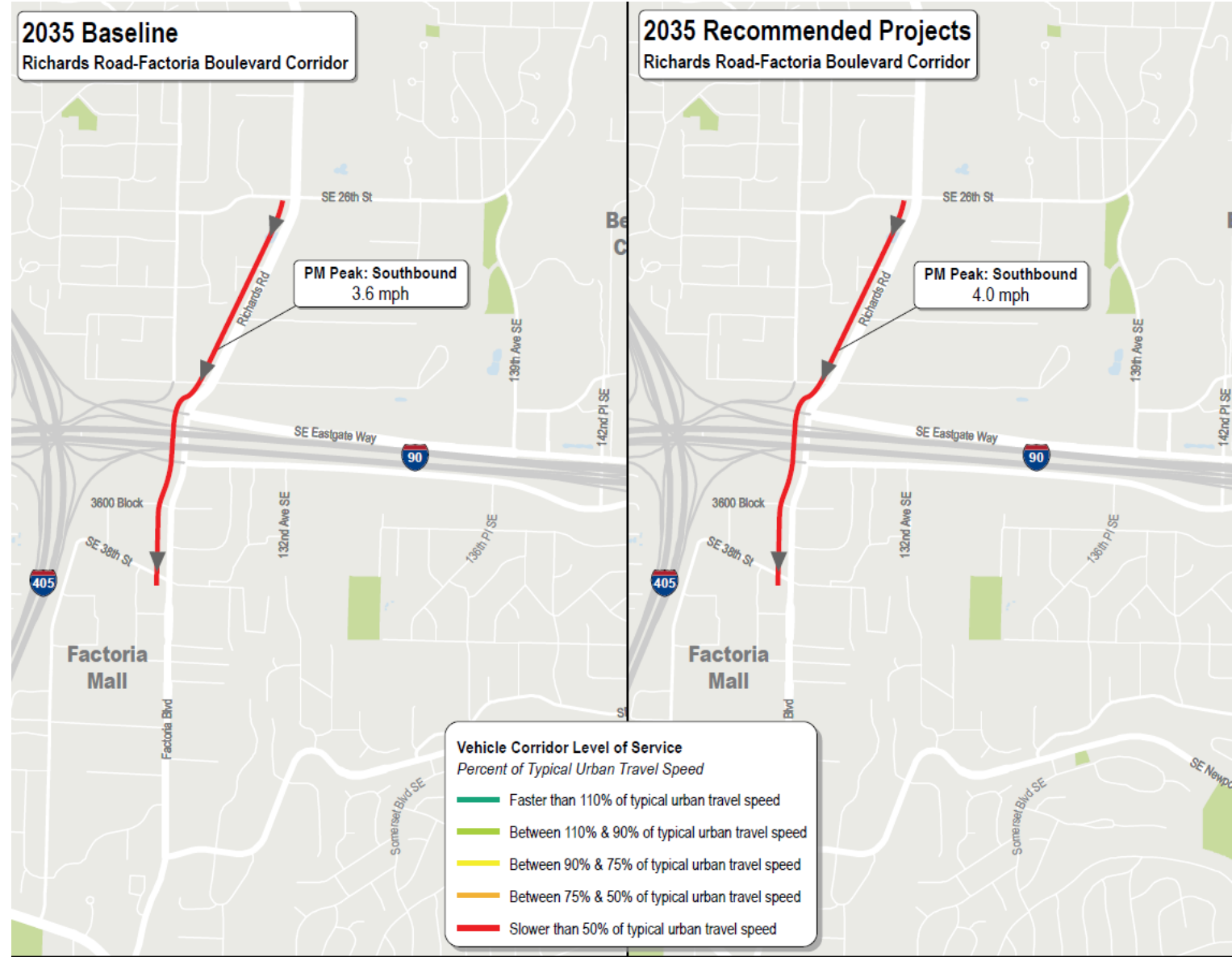
2035 Baseline vs. Recommended Projects

Vehicle Travel Speed

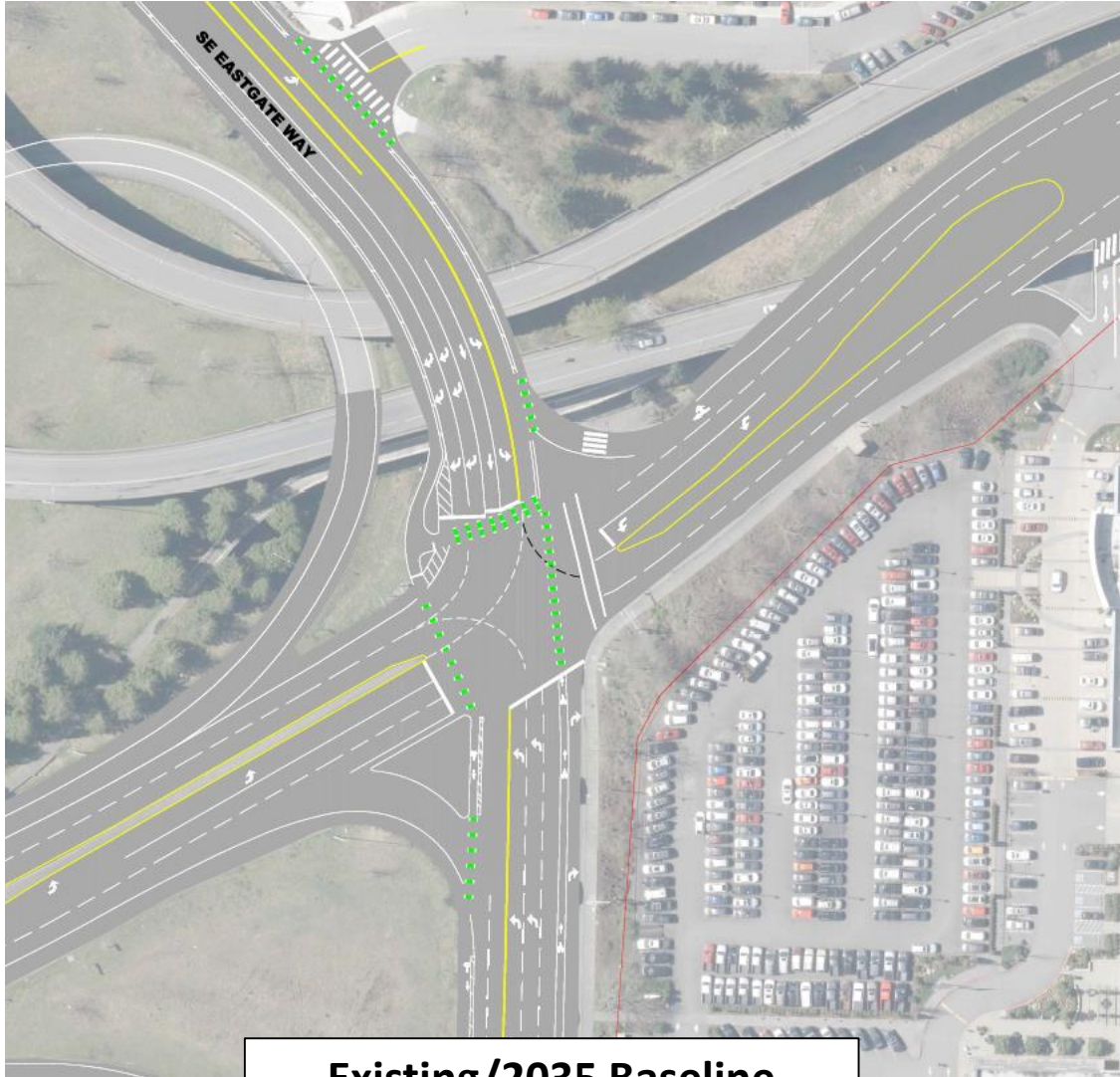
Richards Road/Factoria Boulevard

2035 PM Peak - Southbound

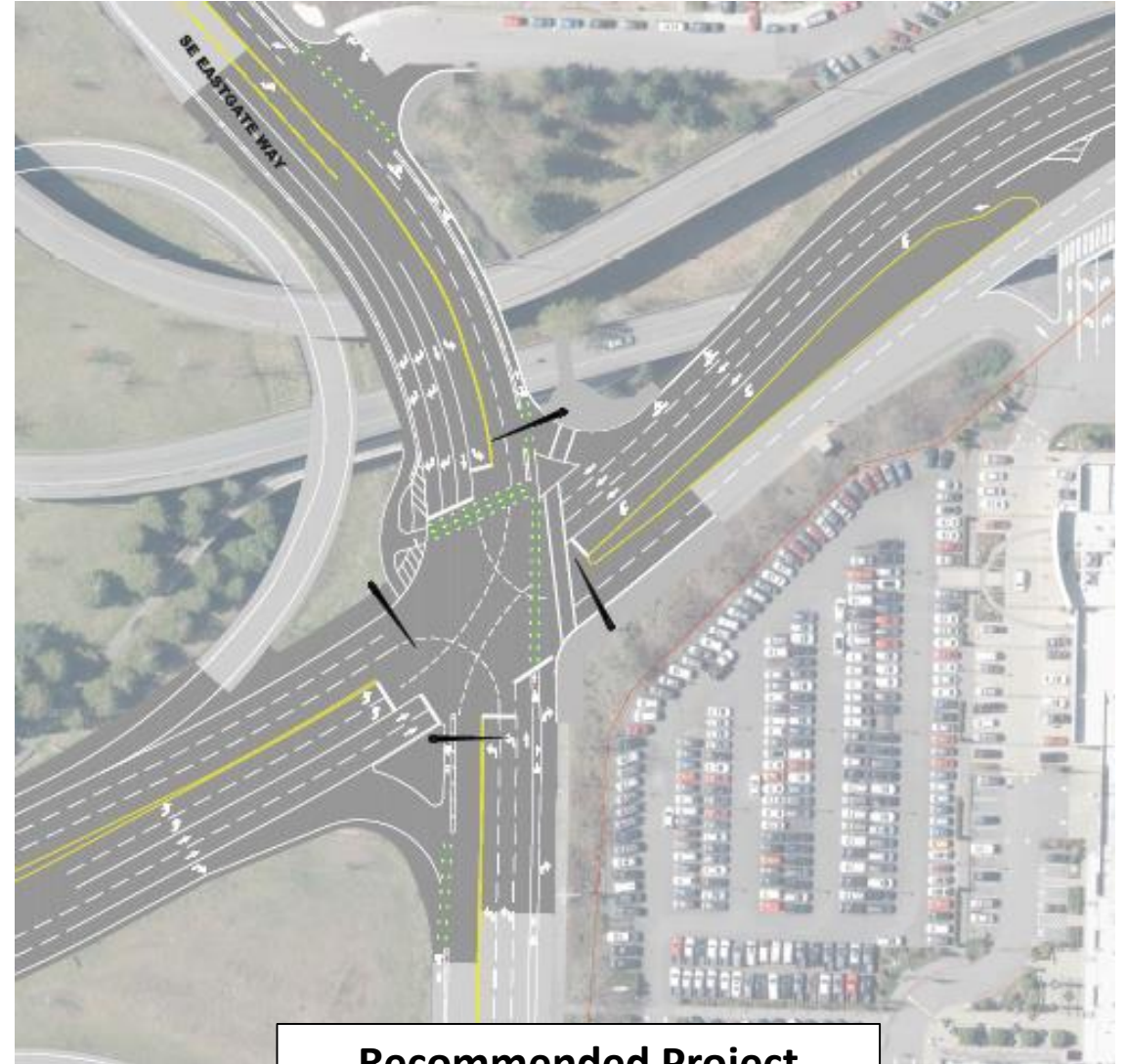
- Baseline: 3.6 mph
- Recommended: 4.0 mph (12% faster)



150th Avenue SE / SE Eastgate Way



Existing/2035 Baseline

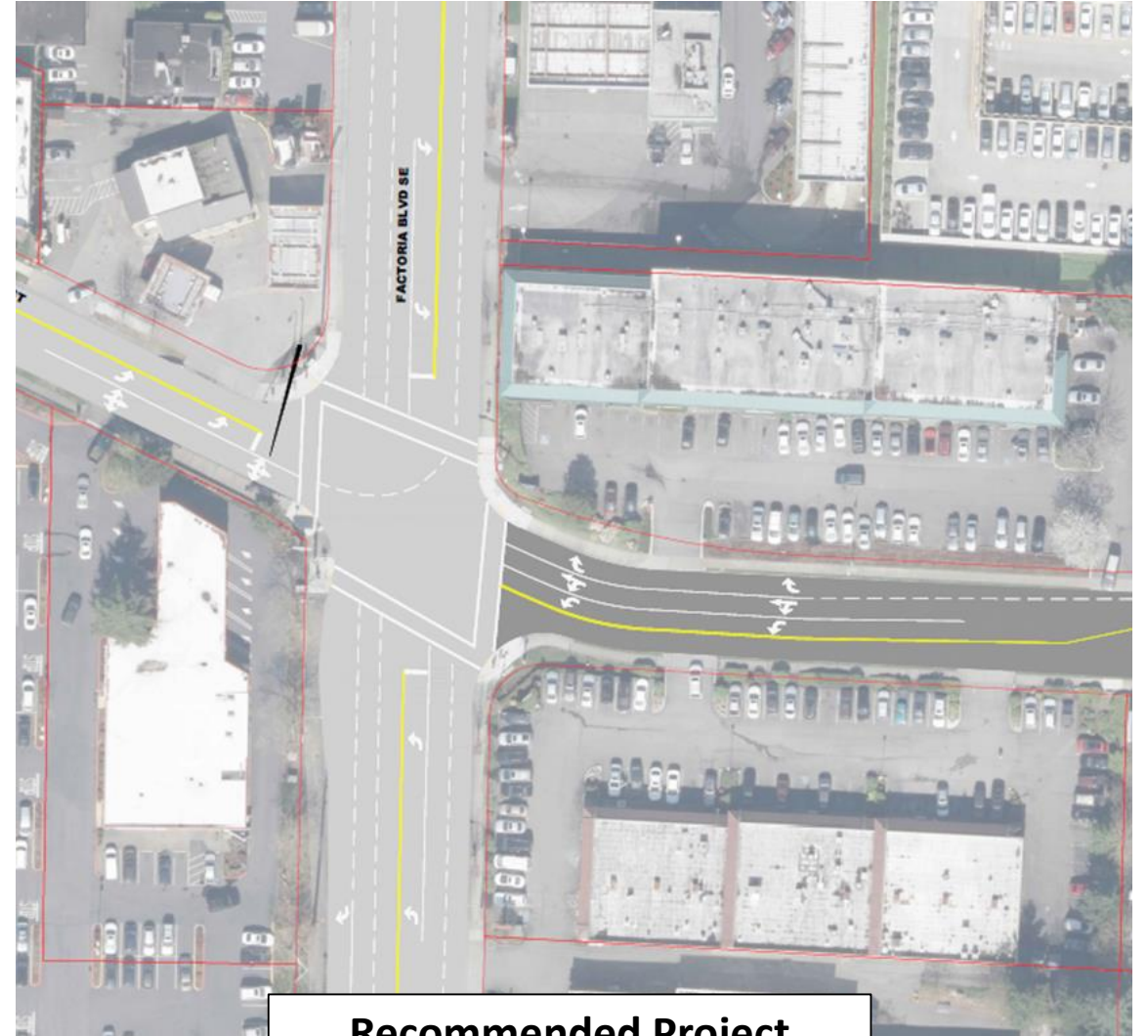


Recommended Project

Factoria Boulevard SE / SE 38th Street



Existing/2035 Baseline



Recommended Project

Implementation

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

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

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

- Neighborhood, Safety, Connectivity and Congestion Levy
 - ❖ Potential **Early Implementation** for the westbound approach to Factoria Boulevard @ SE 38th Street!
- Capital Improvement Program Plan



Final Report/Project Recommendations

Discussion/
Questions

Document Edits

*Staff will incorporate edits
into deliverable to the
Council*



Transportation Commission Actions

- ☐ Approve Final Report
- ☐ Approve Transmittal Letter
- ☐ Select Commissioner to Transmit Final Report to the Council in July 15, 2019



Thank You

Eastgate Transportation Study Project Team

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