



City of Tualatin

Putting it all Together

Tualatin TSP

Presentation to
Tualatin Transportation Task Force
September 20, 2012

Presentation Outline

- Review highlights from modal plans
 - Transit
 - Bicycle, Pedestrian, and Trail
 - Roadway
 - Intersections
 - Street Upgrades and Extensions
 - Freight
- Review traffic findings from key scenarios

Where We Are In the TSP Process

STEP 1

Identify Needs and Opportunities

Develop Goals and Objectives

Survey Existing Conditions

Forecast Future Conditions

** Public Involvement Activities Included*

STEP 2

Develop and Evaluate Solutions

Create a Long List of Potential Solutions

Screen/Evaluate How Ideas Help Meet Goals and Objectives

** Public Involvement Activities Included*

STEP 3

Make Recommendations

Prepare Draft Project Recommendations

Refine Project Recommendations

Prioritize Project Recommendations

** Public Involvement Activities Included*

STEP 4

Create and Adopt the Plan

Develop a Draft TSP

Adopt the Final TSP

** Public Involvement Activities Included*

We are here

Progress Since our August 23rd Meeting...

1. We met with City Council on September 10th
 - ✓ Direction to not model North-South Connectivity option for tonight's meeting
2. We developed the transit, roadway, bicycle, pedestrian, and trail modal plans
3. We have prepared cost estimates, funding sources, and prioritization

What We're Asking of You Tonight

- Do the modal plans reflect Tualatin's goals and objectives for its TSP?
- Do we have the priorities right?
- Talk about the traffic implications of doing nothing, vs.
 - Expanding capacity of the existing network
 - Extending 65th Avenue
 - Expanding Boones Ferry Road north of downtown

A Reminder of our Goals and Objectives

No.	Goal	Representative Criteria
1.	Access and Mobility	Provide efficient and quick travel between point A and B, Provide connectivity within the City between popular destinations and residential areas
2.	Safety	Address known safety locations, address geometric deficiencies
3.	Vibrant Community	Support a livable community with family-friendly neighborhoods, maintain a small town feel
4.	Equity	Promote a fair distribution of benefits and burdens, consider access to transit for all users
5.	Economy	Support a vibrant City Center and community, Consider positive and negative effects of alternatives on adjacent residential and business areas
6.	Health/Environment	Provide interconnected networks for bicyclists and pedestrians, protect park land and create an environmentally sustainable community
7.	Ability to be Implemented	Promote fiscal responsibility, strive for broad community and political support

Transit Modal Plan



Shuttle Circulator Route



Tualatin Shuttle

The Tualatin shuttle runs weekdays in the morning and afternoon rush hours, connecting people coming from regional transit and residential areas to jobs in Tualatin’s employment centers. Its operations are managed by the Tualatin Chamber of Commerce. At least one shuttle bus provides service from downtown Portland.

Proposed improvements to the shuttle service include:

- ✓ Apply for funding to support a second shuttle in the afternoon, and to expand service hours
- ✓ Implement a partially fixed route for Van 1 that works in a counter-clockwise loop and serves the Tualatin Park and Ride and the downtown WES station every 30 minutes
- ✓ Print a route map and schedule, and display on board and at employment areas, station locations, and Chamber of Commerce
- ✓ Advertise service, on WES trains and bus routes serving Tualatin

Legend

- Partial fixed route for Van 1
- - - Potential future route as demand grows
- ★ Employment centers served by shuttle (existing, potential)
- ▲ Residential centers served by shuttle
- 1** Directional for partial fixed routes

Note: Van 2 would retain a flexible, on-call route connecting residential areas with employment

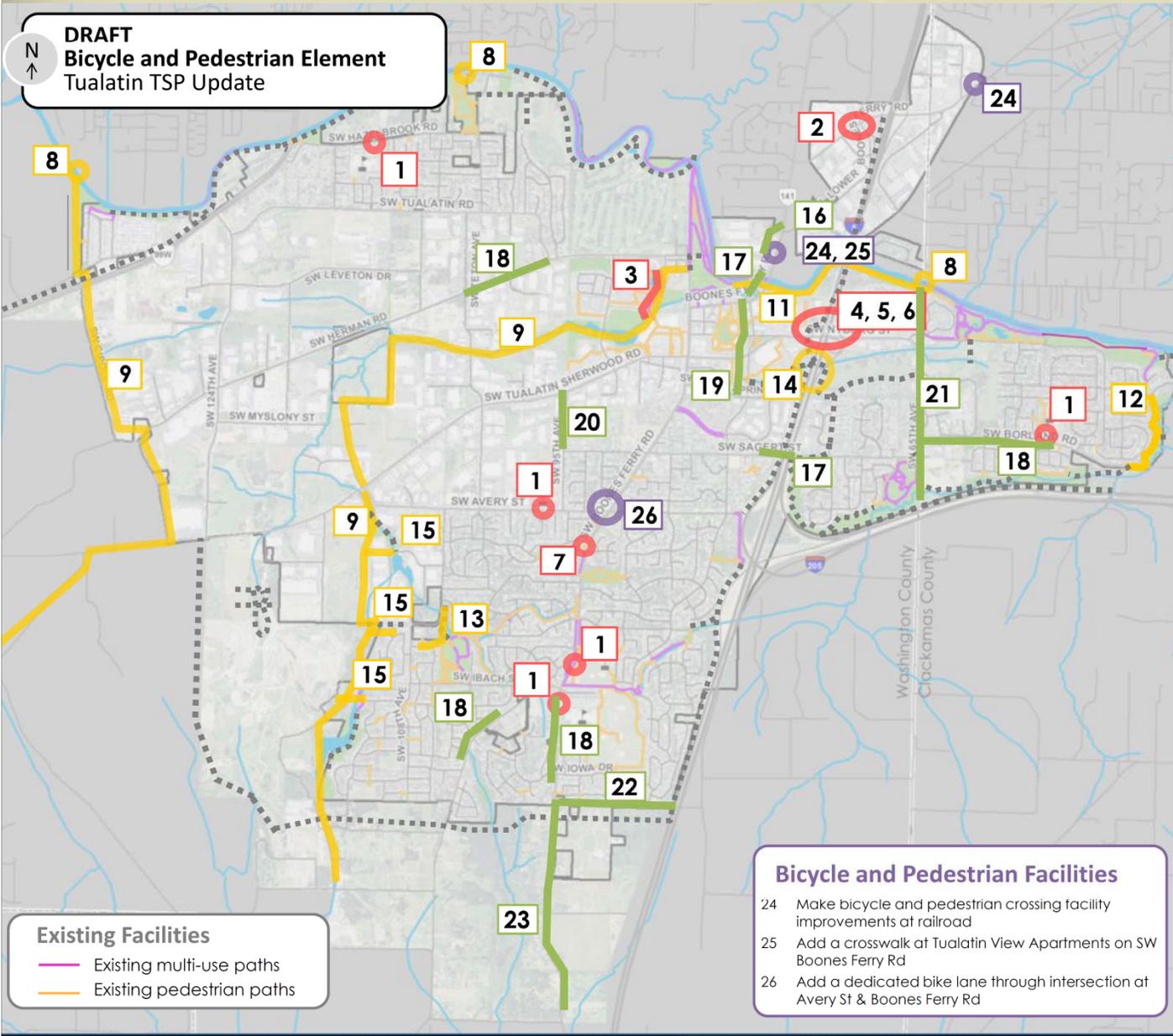
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Bicycle, Pedestrian, and Trail Modal Plan



Bicycle, Pedestrian, and Trail Map

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Bicycle and Pedestrian Element
 Tualatin TSP Update



- Safety Improvements**
- 1 Add wayfinding signs for Safe Routes to School at all public schools
 - 2 Add colored bike lanes on Bridgeport Road near Bridgeport Village
 - 3 Upgrade bridge surface along the path behind the Haggen shopping center
 - 4 Add a colored bike lane through the ramps at Nyberg Interchange
 - 5 Add striping for the bicycle lane across the I-5 southbound off-ramp
 - 6 Redesign bike lane on the east side of the Nyberg Interchange
 - 7 Improve visibility and illumination at crosswalk at Siletz Dr & Boones Ferry Rd

- Multi-Use Trails**
- 8 Build bridges for pedestrian and bicycle access over the Tualatin River near Cipole Road, 108th Avenue, and 65th Avenue
 - 9 Build the Tonquin Trail
 - 10 Build multi-use paths from the previously adopted Tualatin Pedestrian, Bikeway, and Greenway Plans (indicated by)
 - 11 Build trail along Tualatin River from the Community Park, extend to Tualatin River Greenway
 - 12 Fill gaps in the multi-use path as part of the Tualatin River Greenway
 - 13 Add a trail on the east side of SW 105th Avenue, SWS Blake Street, and SW 108th Avenue through Ibach Park to accommodate bicyclists and pedestrians
 - 14 Add I-5 multi-use undercrossing – connect to existing multi-use paths
 - 15 Connect Tonquin trail with neighborhoods

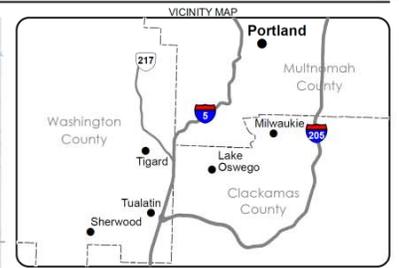
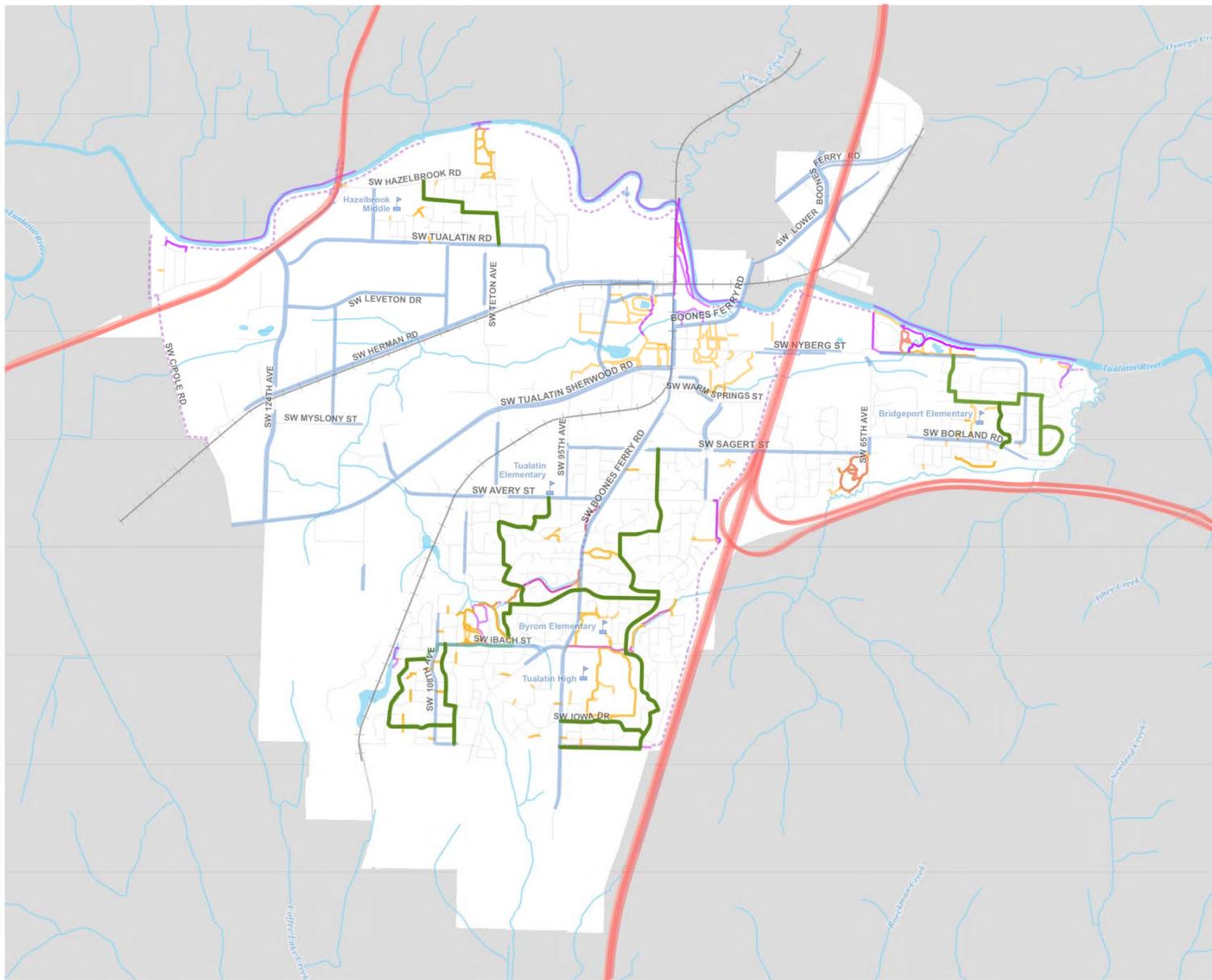
- Bicycle and Pedestrian Urban Upgrades**
- 16 Fill sidewalk gaps and add colored bicycle lanes at SW Boones Ferry and SW Lower Boones Ferry Roads
 - 17 Add a separate bicycle and pedestrian bridge adjacent to SW Boones Ferry Road, add sidewalks to the SW Sager Street bridge
 - 18 Fill sidewalk gaps on SW Boones Ferry Road, SW Borland Road, SW Grahams Ferry Road, and SW Herman Road
 - 19 Add bicycle lanes on Martinazzi Avenue
 - 20 Add bicycle lanes on SW 95th Avenue
 - 21 Add a multi-use path along SW 65th Avenue between I-205 and the Tualatin River
 - 22 Add a multi-use path (or sidewalks and bicycle lanes) on SW Norwood Road
 - 23 Add bicycle lanes on Boones Ferry Rd to Day Rd

- Bicycle and Pedestrian Facilities**
- 24 Make bicycle and pedestrian crossing facility improvements at railroad
 - 25 Add a crosswalk at Tualatin View Apartments on SW Boones Ferry Rd
 - 26 Add a dedicated bike lane through intersection at Avery St & Boones Ferry Rd

Existing Facilities

- Existing multi-use paths
- Existing pedestrian paths

Bicycle Boulevard System



LEGEND

- Study Area
- City Boundaries
- County Boundaries
- Railroad
- Regional Road Network
- Bicycle Boulevard Route
- Local Streets
- Bike Lanes
- Existing multi-use path
- Planned multi-use path
- Local pedestrian path

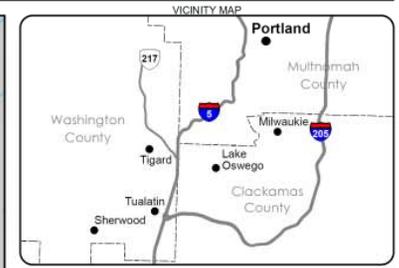
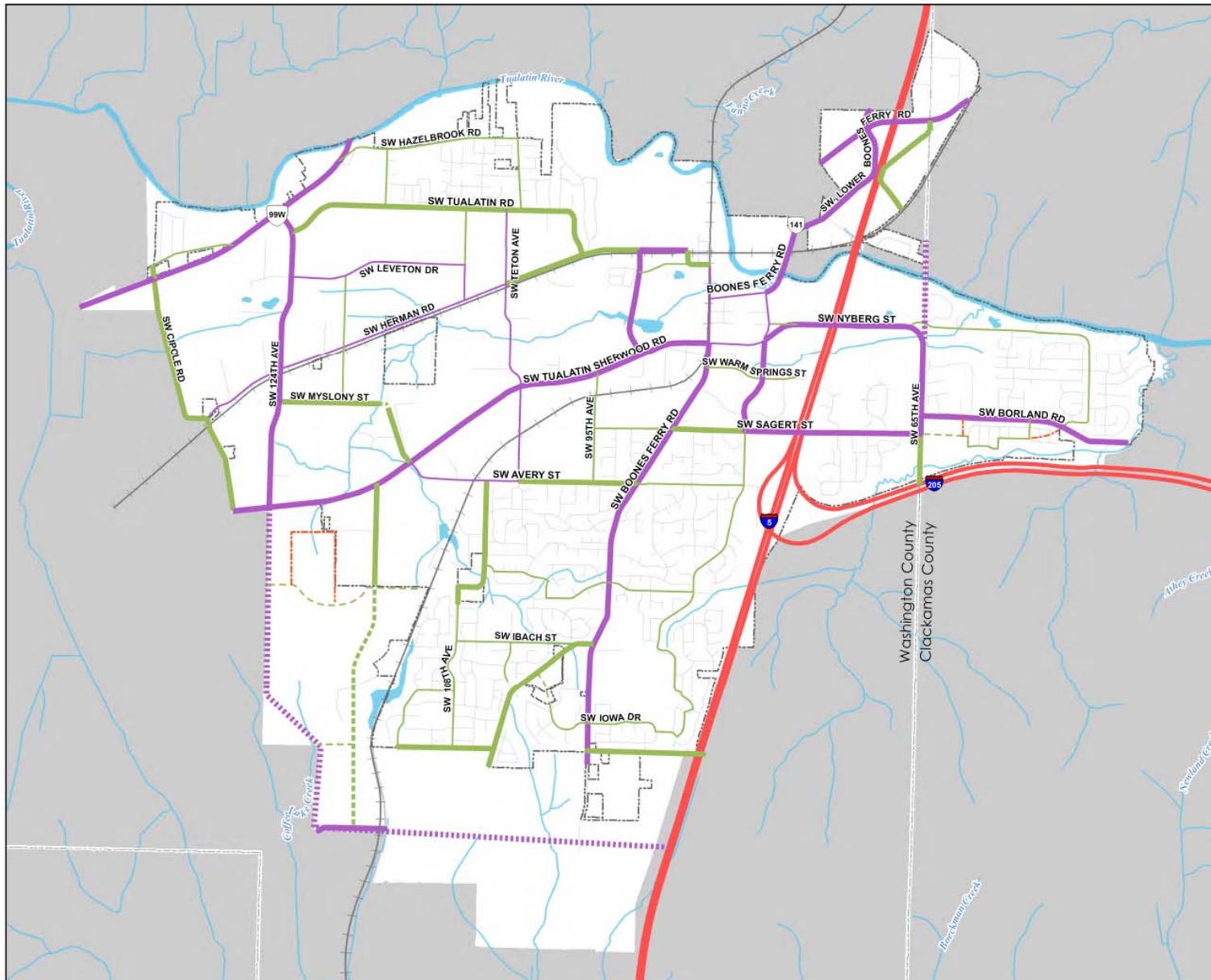
0 0.5 1
Miles

DRAFT FIGURE
Bicycle Boulevard Routes
 Bicycle and Pedestrian Element
 City of Tualatin Transportation System Plan

Roadway Modal Plan



Functional Classification Network



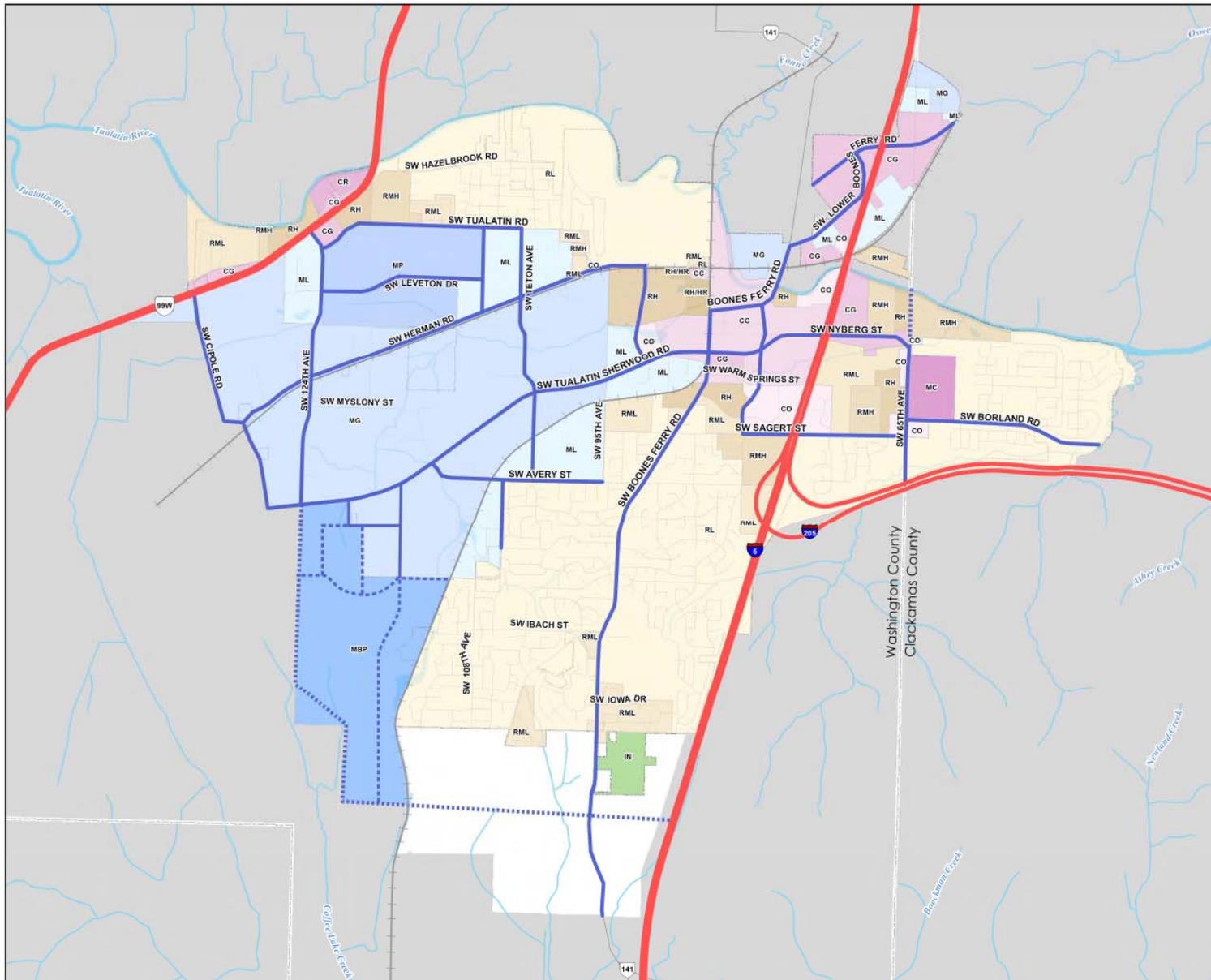
LEGEND

- Study Area
- Principal Arterial
- Major Arterial
- Future Major Arterial
- Minor Arterial
- Major Collector
- Future Major Collector
- Minor Collector
- Future Minor Collector
- Future Local Road
- City Boundaries
- County Boundaries
- Railroad

Note:
Future roadway alignments are approximate and subject to additional engineering and design.

DRAFT FIGURE 1
Recommended Functional Classification
 Functional Classification Element
 City of Tualatin Transportation System Plan

Freight Element



LEGEND

Study Area

0 0.5 1 Miles

Regional Transportation System

- Regional Transportation System

Freight Routes

- Existing Roadways
- Future Roadways

Boundaries

- City Boundaries
- County Boundaries

Railroad

- Railroad

Institutional

- IN - Institutional

Commercial

- CO - Office
- CC - Central
- CG - General
- CR - Recreational
- MC - Medical

Manufacturing

- ML - Light
- MG - General
- MP - Park
- MBP - Business Park

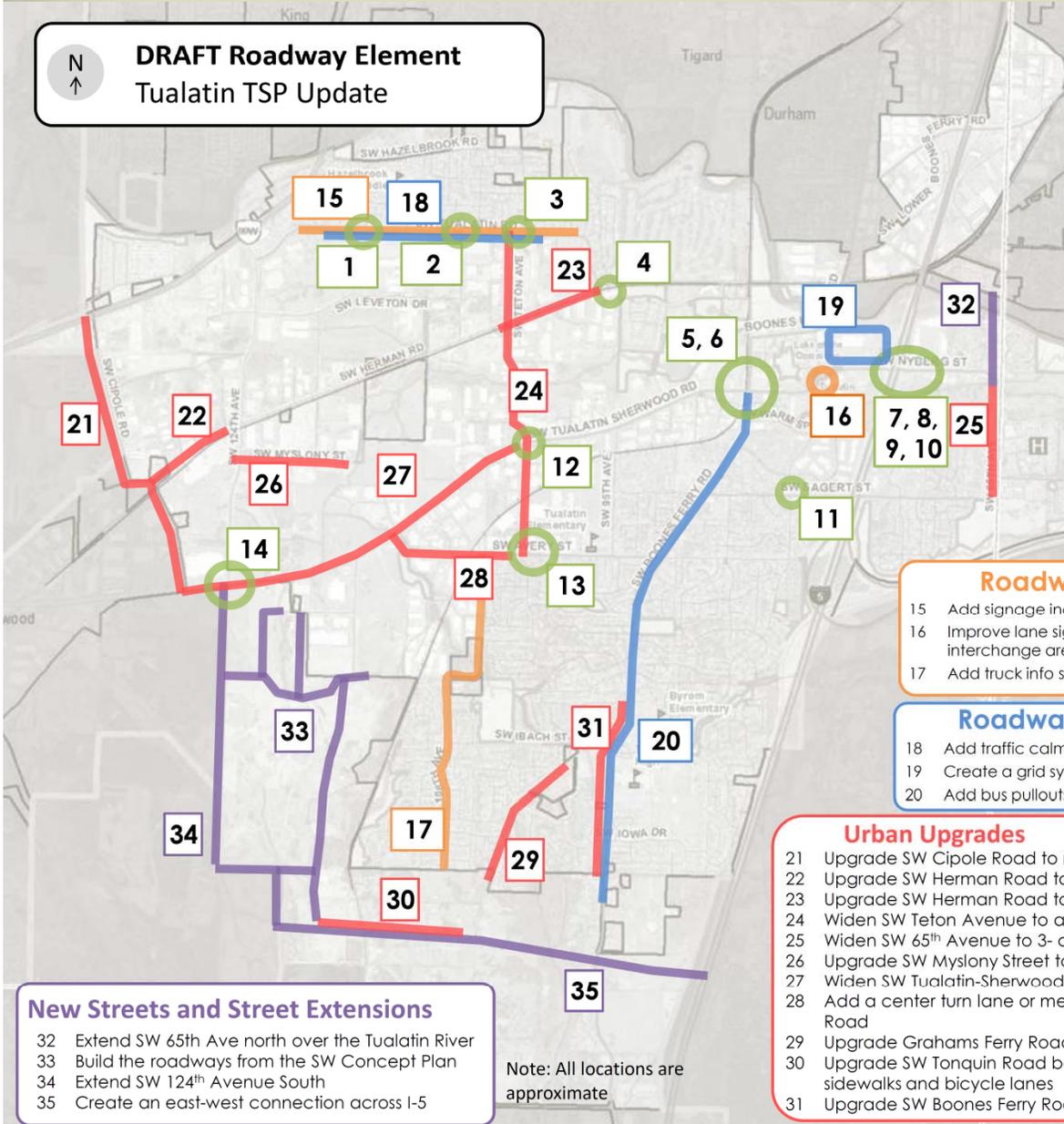
Residential

- RL - Low Density
- RML - Medium Low Density
- RMH - Medium High Density
- RH - High Density
- RH/HR - High Density High Rise

DRAFT FIGURE
Freight Routes
 Street Element
 City of Tualatin Transportation System Plan

Roadway Element Map

DRAFT Roadway Element
Tualatin TSP Update



- ### Intersection Improvements
- 1 Add signal at SW Tualatin Road and SW 115th Avenue
 - 2 Remove trees at intersection of SW Tualatin Road and SW 108th Avenue to improve sight distance
 - 3 Add signal at SW Tualatin Road and SW Teton Avenue
 - 4 Remove the free right turn at SW Tualatin Road at the intersection of SW Herman Road. Consider a roundabout.
 - 5 Add an eastbound right turn lane on SW Tualatin-Sherwood Road at SW Boones Ferry Road
 - 6 Extend the southbound left turn pocket on SW Boones Ferry Road at SW Tualatin-Sherwood Road
 - 7 Move guardrail on southbound off ramp to improve sight distance
 - 8 Northbound I-5 on-ramp: reduce pedestrian island, add an additional lane
 - 9 Add signage at the northbound off ramp to discourage traffic getting off and then back onto I-5
 - 10 Redesign SW Nyberg Street and Fred Meyer intersection and improve pedestrian crossing. Add striping and a pedestrian island.
 - 11 Add a signal or roundabout at Sagert St and Martinazzi Ave
 - 12 Add a dedicated right turn lane on southbound SW Teton Avenue and SW Tualatin-Sherwood Road
 - 13 Improve intersection at SW Avery Street and SW Teton Avenue – add southbound right turn pocket
 - 14 Add a right turn lane from westbound SW Tualatin-Sherwood Road to northbound SW 124th Avenue

- ### Roadway Signs
- 15 Add signage indicating that Tualatin Road is for local traffic
 - 16 Improve lane signage west of the Nyberg interchange to indicate lanes passing through the interchange area
 - 17 Add truck info signs along 108th/105th Avenues to indicate that these roads are for local traffic

- ### Roadway Changes
- 18 Add traffic calming on SW Tualatin Road
 - 19 Create a grid system near Kmart upon redevelopment with a connection to SW Seneca Street
 - 20 Add bus pullouts on SW Boones Ferry Road at existing bus stops where possible

- ### Urban Upgrades
- 21 Upgrade SW Cipole Road to roadway standards (widen travel lanes, add bicycle lanes and sidewalks)
 - 22 Upgrade SW Herman Road to a 3-lane cross section between SW 124th Avenue and SW Cipole Road
 - 23 Upgrade SW Herman Road to a 2-lane urban cross section between SW Tualatin Road and SW Teton Avenue
 - 24 Widen SW Teton Avenue to a 3-lane cross section
 - 25 Widen SW 65th Avenue to 3- or 5-lanes
 - 26 Upgrade SW Myslony Street to roadway standards
 - 27 Widen SW Tualatin-Sherwood Rd to 5 lanes between SW Teton Avenue and SW Cipole Road
 - 28 Add a center turn lane or median on SW Avery Street between SW Teton Avenue and SW Tualatin-Sherwood Road
 - 29 Upgrade Grahams Ferry Road to roadway standards (widen travel lanes, add bicycle lanes and sidewalks)
 - 30 Upgrade SW Tonquin Road between SW Waldo Way and SW Grahams Ferry Road (widen travel lanes, add sidewalks and bicycle lanes)
 - 31 Upgrade SW Boones Ferry Road to a 3 lane cross section throughout.

- ### New Streets and Street Extensions
- 32 Extend SW 65th Ave north over the Tualatin River
 - 33 Build the roadways from the SW Concept Plan
 - 34 Extend SW 124th Avenue South
 - 35 Create an east-west connection across I-5

Note: All locations are approximate

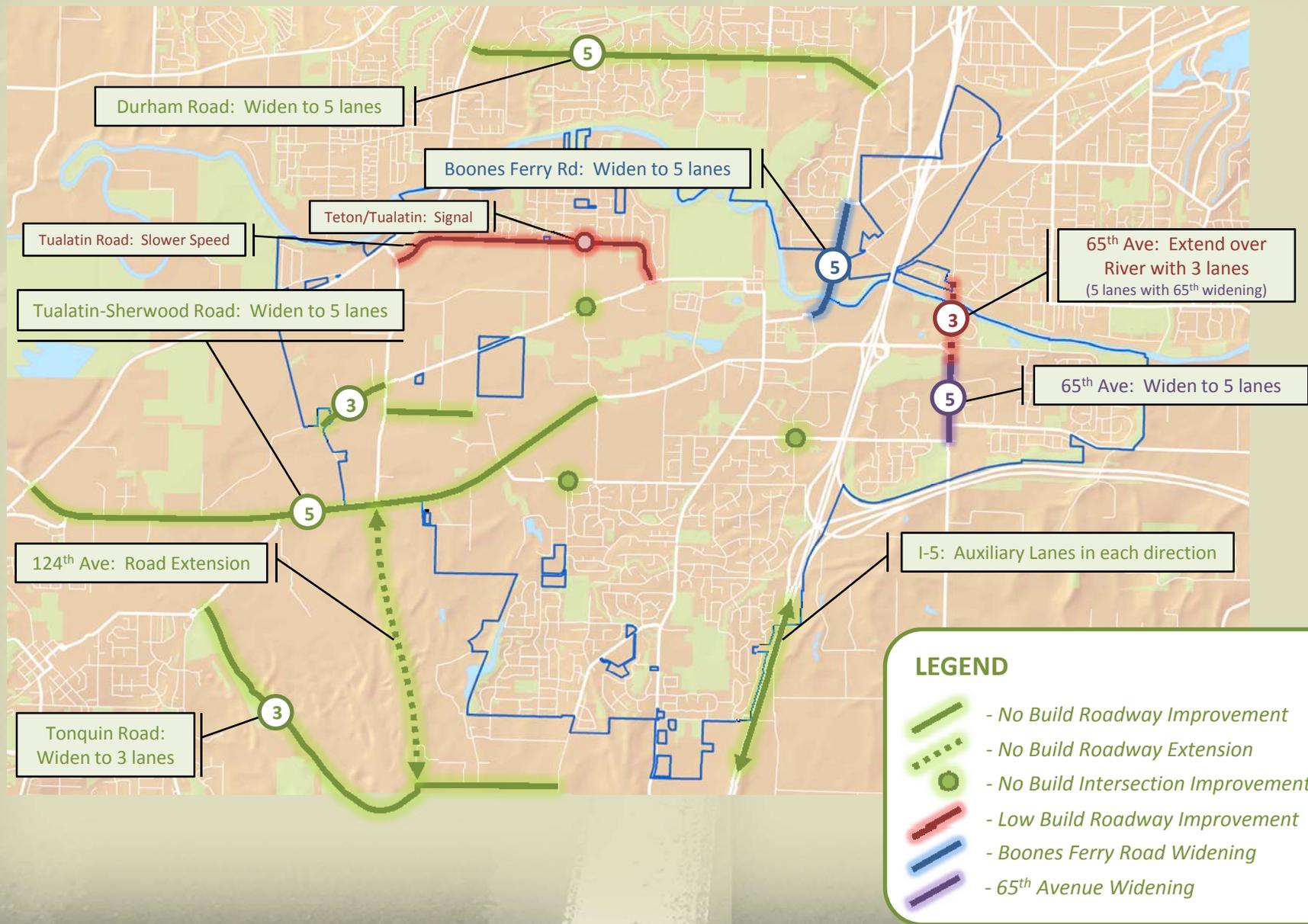
Scenarios



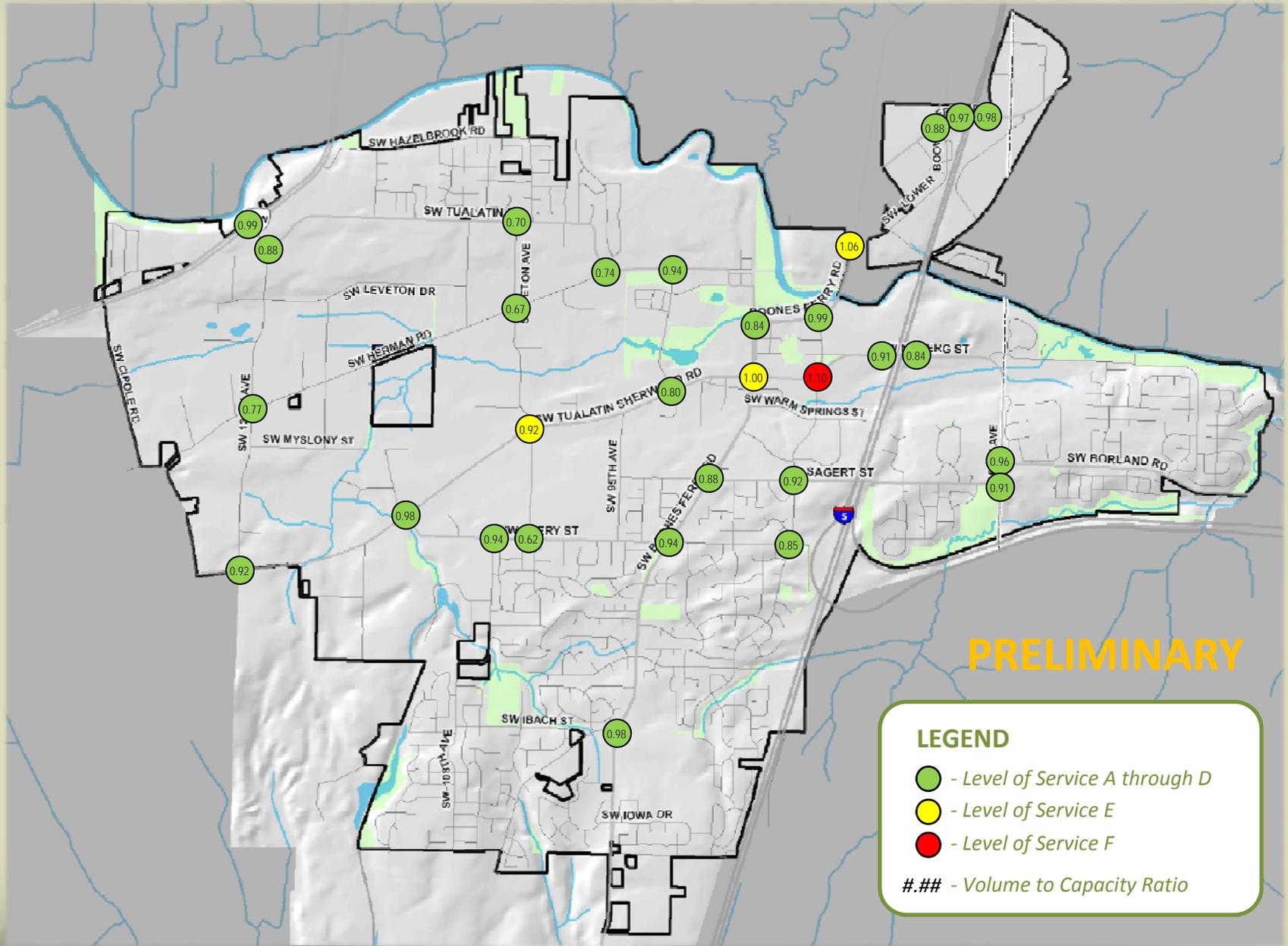
Scenarios Rely on TTF Guidance

1. Includes compilation of guidance from 7 refinement areas
2. Looked at various options for 65th Avenue
 - a. No extension
 - b. 2-lane bridge extension
 - c. 5-lane widening of 65th with 4-lane bridge extension
3. Looked at widening Boones Ferry Road north of Martinazzi

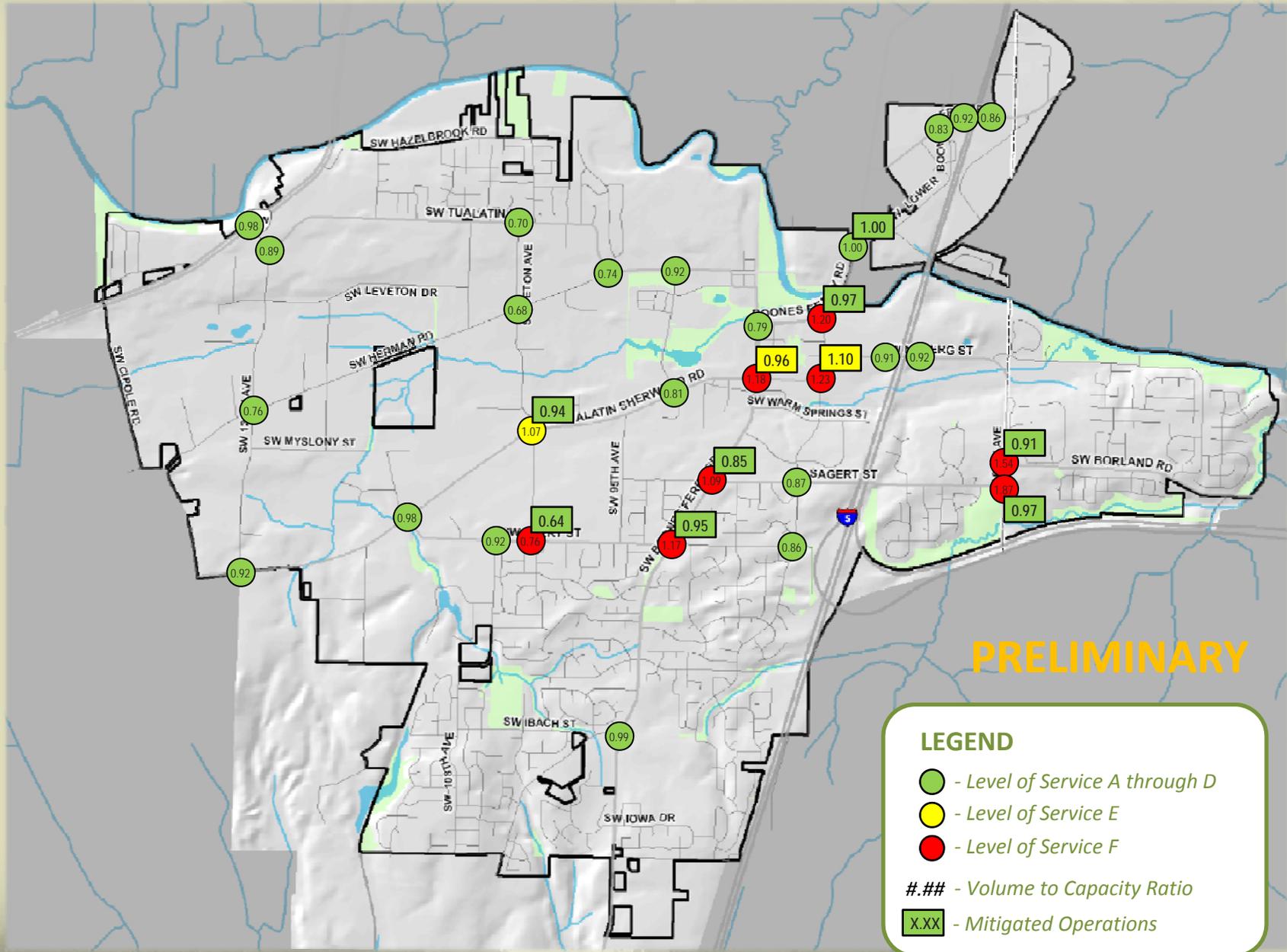
Assumed Future 2035 Scenarios and Roadway Projects



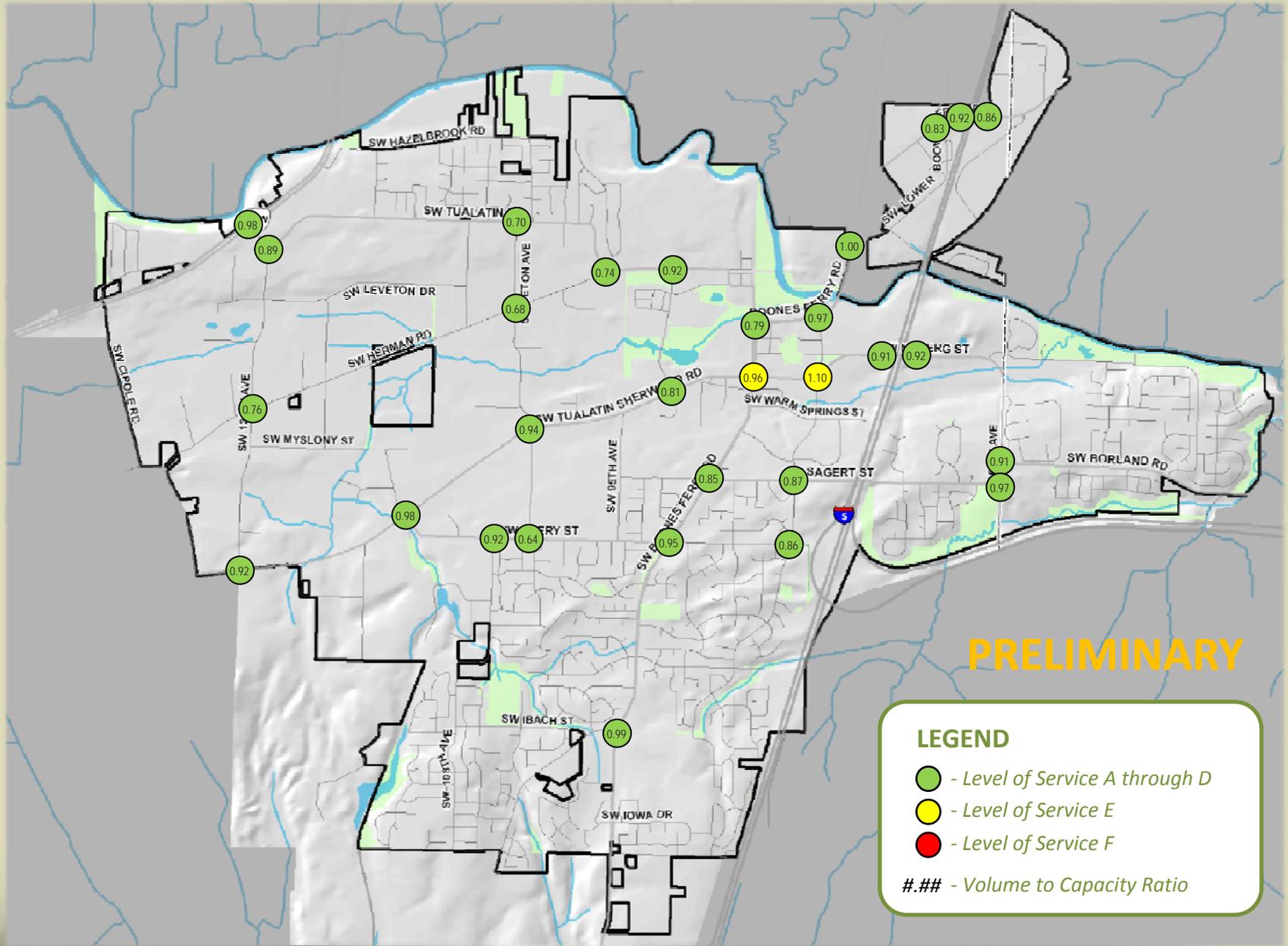
LOW Build Option - Without 65th Ave Extension



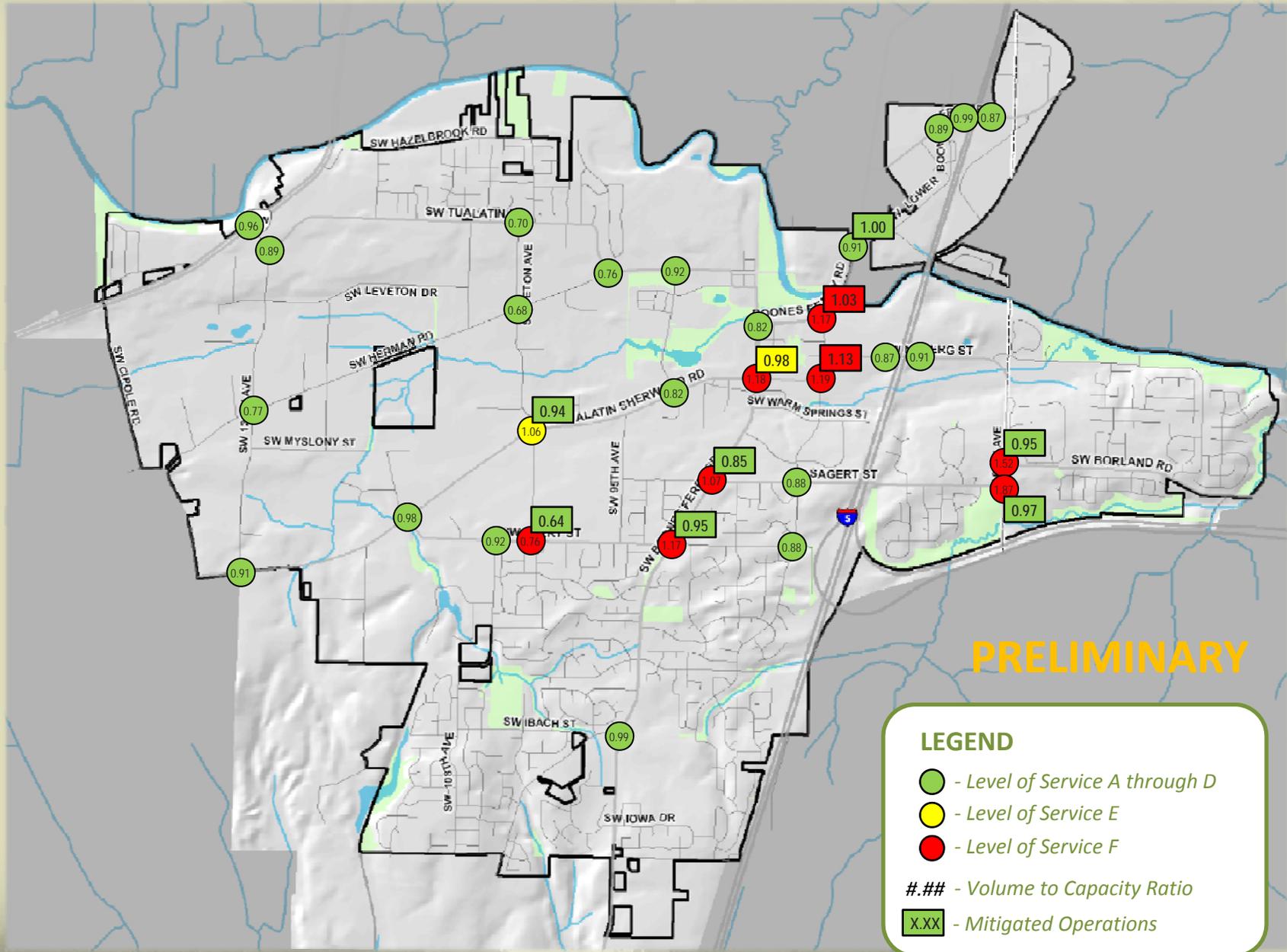
LOW Build Option - WITH 65th Ave Extension



LOW Build Option - WITH 65th Ave Extension



LOW Build Option - WITH Boones Ferry Road North Widening



What Happens Next?

- Discuss and finalize TSP recommendations
- Refine the implementation
 - Code language
 - Prioritization
 - Costs and funding
- Develop the draft TSP
- Begin discussing TSP document with Planning Commission, TPARK, and City Council

Thank you!

