

Agenda

- 1. Welcome & Meeting Purpose
- 2. Existing and Planned Active Transportation Conditions Overview
- 3. Planned Motor Vehicle Conditions Analysis
- 4. Introduction to Concept Development Workshop
- 5. Other Deliverables
- 6. Next Steps & Adjourn



1. Welcome & Meeting Purpose



Present the existing and planned future active transportation conditions



Present the findings of future motor vehicle conditions analysis

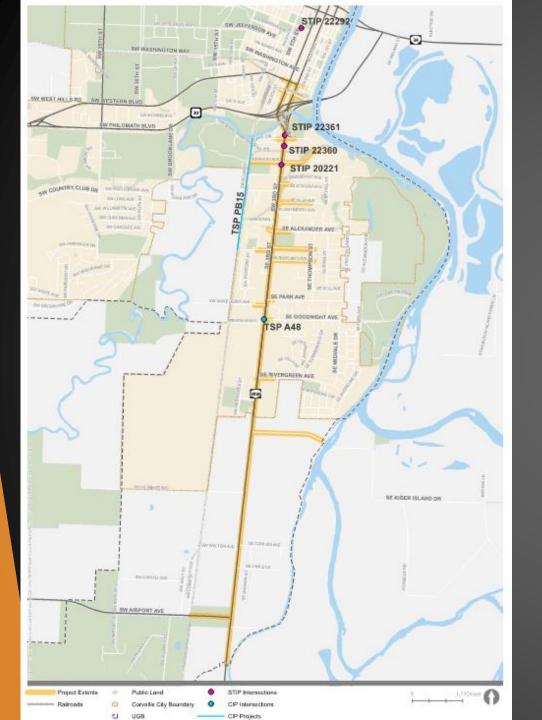


Introduction to Concept Development Workshop



Discuss other deliverables, issues and concerns





Planned Improvements
Within Study Corridor

Pedestrian Network Improvements and Forecast

- Multi-Use Path Planning Tunison to Avery Park Drive (South Corvallis Multi-Use Path)
- OR99: Chapman Crossing Advanced Warning Light
- ► OR99: Chapman Crossing Illumination

Bicycle Network Improvements and Forecast

- Multi-Use Path Planning Tunison to Avery Park Drive (South Corvallis Multi-Use Path)
- Albany and Corvallis Signal Improvements (Crystal Lake Drive)

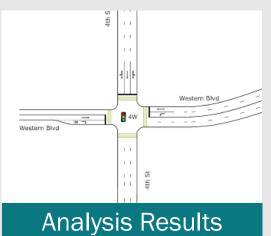
Transit Network Improvements and Forecast

- Project Administration for Battery Electric Bus Projects
- Purchase Equipment and Construct Bus Charging Facilities (Corvallis)
- Purchase Battery Electric Buses
- Corvallis Transit System (CTS) Camera System



OVERVIEW OF 2040 FUTURE MOTOR VEHICLE CONDITIONS





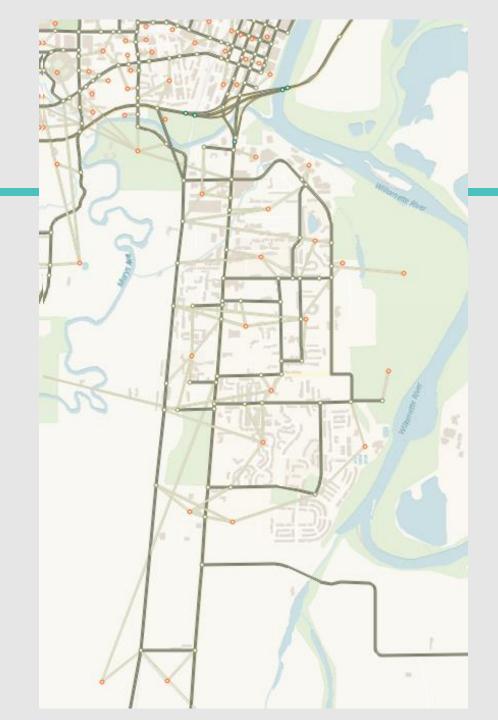




Volume Development

- Version 3.001 RTP Corvallis-Albany-Lebanon
 Model -- CALM
- NCHRP Report 255/765 post- processing techniques
- Bicycle & Pedestrian Volumes
 - PSU's Population Research Center population forecasts
 - ~12,000 over next 20 years
 - 0.97% yearly rate





Project ID	Description	Source
PB15	New Multi-Use Path : Construct a portion of <u>3.5-mile</u> multi-use path parallel to the railroad in Southeast Corvallis, between <u>Marys River south to Airport Avenue</u> .	CIP/Corvallis TSP
PB17	Ped/Bike Crossing : Construct a bicycle/pedestrian <u>bridge over Marys River</u> and connect with project PB15 on the south side.	CIP
PB27	Study feasibility of new bicycle/pedestrian bridge over Marys River along the Goodnight Avenue – Brooklane Place alignment.	Corvallis TSP
PB49	New Multi-Use Path : Develop new multi-use path <u>connecting Goodnight Avenue</u> and <u>Brooklane Drive</u> , via Caldwell Natural Area.	Corvallis TSP
A10	OR 99W/ Goodnight Ave Traffic Control: roundabout or traffic signal, may be dependent on the construction of Project A11.	Corvallis TSP
A11	OR 99W/Rivergreen Ave Traffic Control: roundabout or traffic signal, may be dependent on the construction of Project A10.	Corvallis TSP
K20221	Install a Bicycle signal head with <u>protected bicycle signal phase</u> at the signalized intersection of <u>OR 99W and Crystal Lake Drive</u> .	STIP

Analysis Results

PM Peak Hour

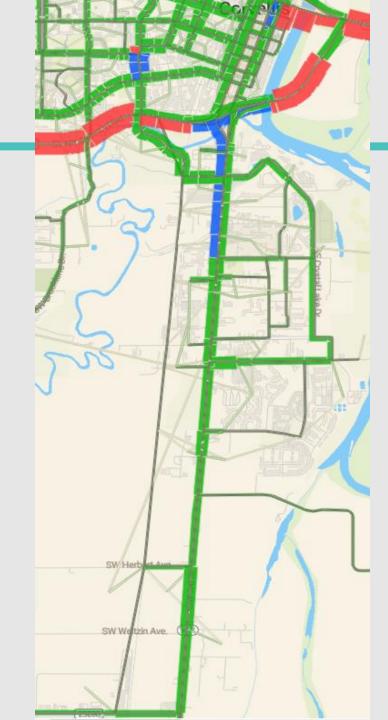
Ratio of demand volume to available capacity

Style	from (>=)	to (<)
Α	0.00	0.90
Α	0.90	1.10
Α	1.10	12.00

Green = below capacity

Blue = at capacity

Red = over capacity





Origin-Destination Travel Time and Trip Length

			PM Peak		
Origin	Destination	Direction	Travel Time (minutes)	Trip Length (miles)	
Western	Southern UGB	SB	7.5	3.6	
Southern UGB	Western	NB	6.7	5.0	
Western	Chapman	SB	1.6	0.4	
Chapman	Western	NB	1.2	0.4	
Western	Hopkins	SB	2.3	0.6	
Hopkins	Western	NB	1.7		
Western	Richland	SB	3.7	1.2	
Richland	Western	NB	3.0		
Western	300' south of Goodnight	SB	4.6	1.6	
300' south of Goodnight	Western	NB	3.8		
Hospital	Southern UGB	SB	14.4	6.7	
Southern UGB	Hospital	NB	13.6		

Total Trips by Mode

	Systen	n Wide	Study Area		
Mode	Daily	PM Peak	Daily	PM Peak	
Auto	205,094	17,718	13,350	1,298	
Transit	6,617	N/A	85	N/A	
Bike	32,379	N/A	851	N/A	
Walk	89,153	N/A	2,191	N/A	



State, City, & County v/c Targets & Standards

	v/c Targets
Roadway	OHP
Freight Route on a regional or District Highway (MPO)	0.90
District/Local Interest Roads (MPO)	0.95



Roadway	v/c Standard			
City of Corvallis				
SW Western Blvd				
SW B Ave				
SW Twin Oaks Cir/SE Chapman Pl				
SW Avery Ave/Crystal Lake Dr				
SE Alexander Ave				
SE Viewmont Ave				
SW Tunison Ave	0.85			
SE Richland Ave	0.65			
SE Park Ave				
SW Wake Robin Ave				
SE Goodnight Ave				
SW Goodnight Ave				
SE Rivergreen Ave				
Benton County				
OR 99W at Kiger Island Dr	0.00			
OR 99W at Airport Ave	0.90			

Unsignalized Intersection v/c, LOS, & Delay

Intersection ¹	v/c ^{2,3}	LOS	Delay (sec)	Estimated/COVID Impacted	
B Ave & 4th St	0.34 / 0.61	A/E	3 / 25	•	
B Ave & 3rd St	0.25 / 0.38	A/E	3 / 40	•	
OR 99W &					
Twin Oaks/Chapman Pl	1.07 / >2.0	F/F	66 / >120	•	
SE Viewmont Ave	0.34/ >2.0	A/F	8 / >120	•	
SW Tunison Ave	0.35 / >2.0	A/F	8 / >120	•	
SE Richland Ave	0.37 / 1.60	A/F	8 / >120	•	
SE Park Ave	0.34 / 0.37	A/F	8 / 75		
SW Wake Robin Ave	0.30 / 1.60	A/F	6/>120		
SE Goodnight Ave					
SW Goodnight Ave	0.61 / 0.53	A/F	6 / 86		
SE Rivergreen Ave	Signalized in 2040				
SE Kiger Island Dr	0.32 / 0.07	A/C	5 / 19	•	
SW Airport Ave	0.21 / 0.40	A/C	2 / 20	•	

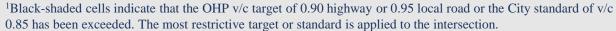
¹Values for intersection are listed by MAJOR movement / MINOR movement.

²OHP mobility target for all MAJOR movements is 0.90; for all MINOR movements it is 0.95. The City of Corvallis mobility standard for these MINOR movements is 0.85

³Black-shaded cells indicate that the OHP v/c target or the City or County standard has been exceeded

Signalized Intersection v/c, LOS, & Delay

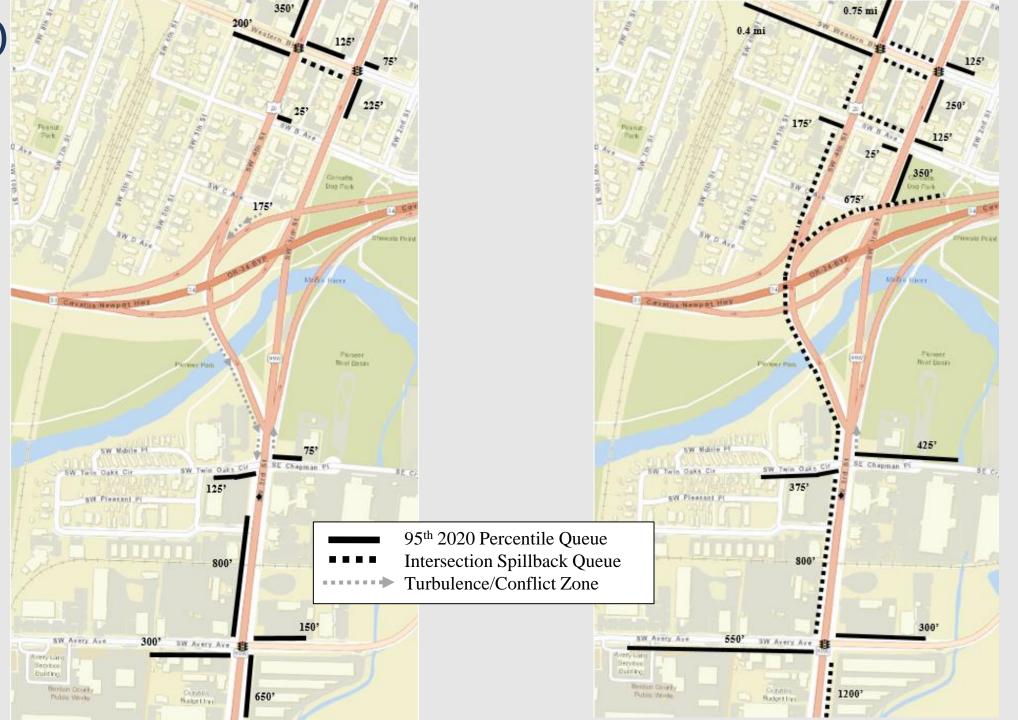
Intersection	v/c¹	LOS	Delay (sec)
Western Blvd & 4 th St	1.23	F	>120
Western Blvd & 3 rd St	0.60	С	24
OR 99W & SW Avery Dr/Crystal Lake Dr	1.13	F	>120
OR 99W & SE Alexander Dr	0.54	С	20
OR 99W & SE Goodnight Ave	0.53	С	21
OR 99W & SE Rivergreen Ave	0.45	С	26



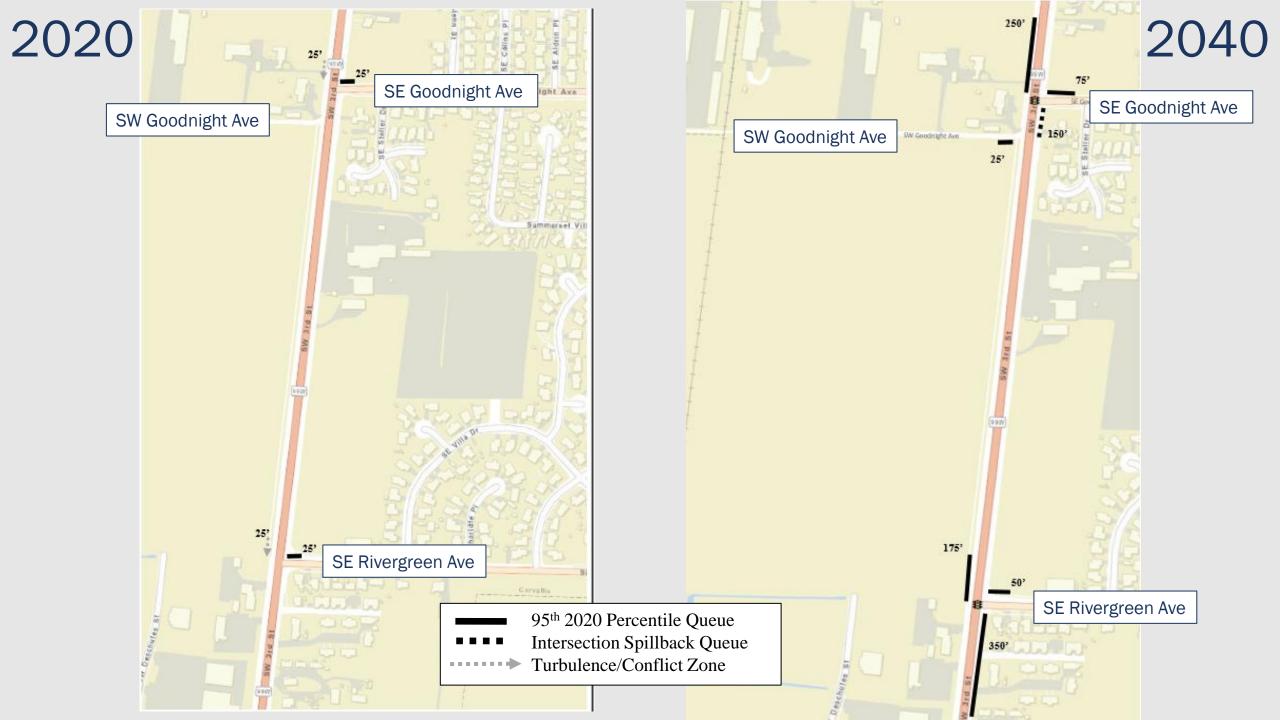


Queuing Overview













Deficiencies

- Some intersections over capacity
 - 4th & Western Blvd; Chapman PI; Crystal Lake Dr
- Extensive queuing southbound through interchange
- Long delays on side streets turning left onto highway
 - 9 of 11 unsignalized intersections are near failing (LOS E on A-F scale)
- Diagonal bicycle phase at Crystal Lake reduces green time on highway
- Safety concern on highway at Tunison Avenue
 - Southbound slowdown on north leg
 - Close proximity of Viewmont Ave and Tunison Ave



4. Introduction to Concept Development Workshop

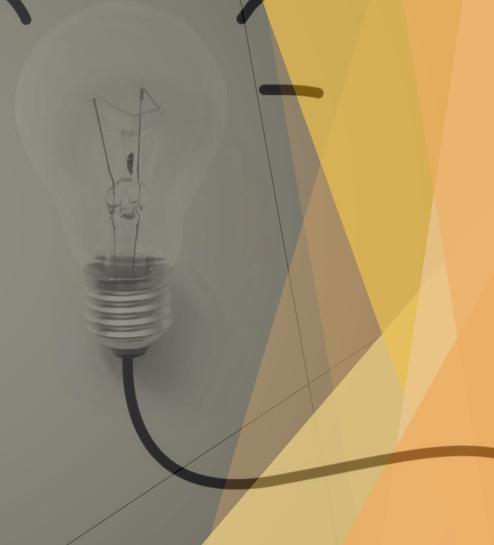
Dates:

- ▶ July 27th: you're invited!
- July 28th 2: Public, planning commission, and city council open house and presentation

Purpose:

- Provide ideas for solutions to address issues along OR 99W
- Develop concepts for OR 99W corridor alternatives





Potential Solutions



Potential Treatments: Medians

Source: patternpaving.com





Source: Streetsblog

Potential Treatments: Roundabouts





Source: Kitsap Daily New



Potential Treatments: Traffic Signal





Source: blogspot.com



Potential Treatment: Buffered Bike Lanes





Source: corvallisoregon.gov

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Potential Treatment: Green Paint





Source: uctsrts.com



Brainstorm Potential Treatments: Bicycle Boxes



Source: City of Tuscon DOT



Source: smgov.net



Potential Treatment: Separated Bike Facilities





Source: altago.com

Source: cambridgema.gov



Potential Treatment: Shared Use Path/Sidepath







Potential Treatment: Rectangular Rapid Flashing Beacon (RRFB)





Potential Treatment: Pedestrian Hybrid Beacons





Source: tapinto.net

Potential Treatment: Grade Separated Crossing



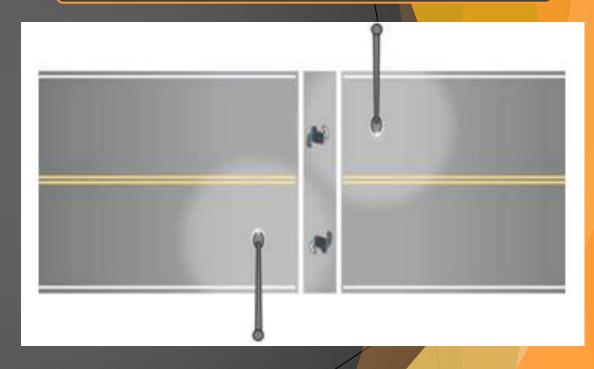




Potential Treatment: Lighting

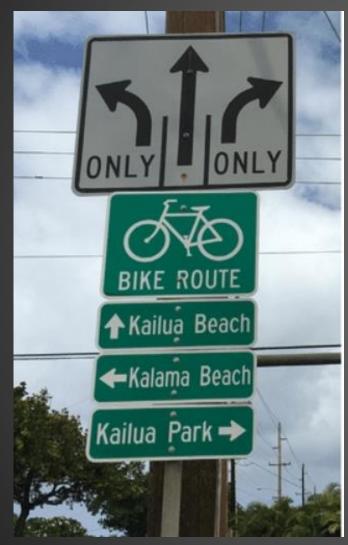


Illumination (in advance of pedestrian crossing)





Potential Treatment: Signage and Wayfinding



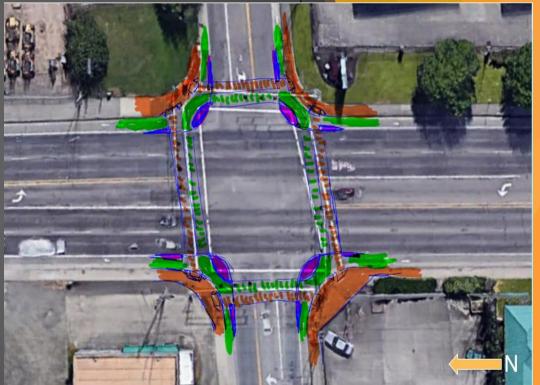




Potential Treatment: Protected Intersection



Proposed Protected Intersection at SW Avery Avenue (Crystal Lake Drive)



Source: blogspot.com



5. Recent Deliverables

- Summary of Corridor Issues, Opportunities and Constraints: Complete
- ▶ Plans/Policy Review: Complete
- ► Analysis Methodology and Assumptions: Complete
- ▶Land Use and Roadway and Transit System Inventory: Complete
- Local Access Survey Summary: Complete
- ▶ Draft Access Management Methodology: Complete
- Existing Motor Vehicle Conditions: Complete
- Existing Safety and Active Transportation Inventory and Conditions: Complete
- Existing Needs, Planned Improvements, Alternatives and Recommendations:

In Progress

- ▶ Planned Future Motor Vehicle Conditions: In Progress
- ▶ Planned Future Active Transportation Conditions: In Progress



6. Next Steps & Adjourn

- Next –September SAG Meeting #6
 - Alternatives Development
 - In-Person vs Virtual

- In the next couple of months, we will:
 - Be developing and evaluating corridor design alternatives
 - Host a concept development workshop
 - Host Public Open house #2
 - Location suggestions? Community events?
 - Consider preferred concept



Questions/Comments?

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Thank You!

