

Brookman Addition Concept Refinement

Alternatives Analysis and Recommended Alignment Spring 2020 Virtual Open House In 2009 the City of Sherwood adopted the Brookman Addition Concept Plan. This opened the door to possible annexations south of the city limits. A map of the Concept Plan area is shown below.



See the full concept plan at :

City of Sherwood

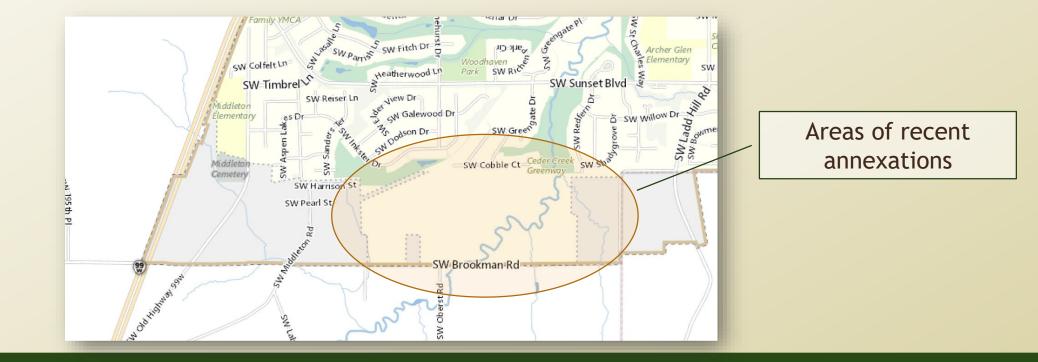
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https://www.sherwoodoregon.gov/sites/default/files/fileattachments/Planning/page/1302/concept_plan_final_report.pdf

Introduction

The Concept Plan Area has begun to develop, however, the details regarding the future design and number of lanes of Brookman Road have been undefined to the City and the County.

Metro, ODOT, Washington County and the City are now undergoing an effort to analyze the alignment and possible design of Brookman Road.



Introduction

City of Sherwood

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Why are we doing this now?

- Development is occurring in the area.
- The existing rural roadway cannot safely accommodate future traffic, pedestrians and cyclists as currently designed.
- The future corridor may require additional right-of-way to reduce dangerous curves and improve the pedestrian environment. Deciding where the alignment should go today reduces potential conflicts with existing development.
- The new High School is under construction and was not envisioned when the Concept Plan was adopted.
- Based on the school, better connection points may be possible to the Brookman Area.

Introduction

What are our goals for this project?

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- Develop and analyze potential design concepts for Brookman Road.
- Identify an alignment that best reflects future transportation needs of the community.
- Provide multimodal (walking, bikes, transit) transportation facilities.
- Minimize impacts to properties.
- Review zoning for compatibility with new alignments.
- Align City and County transportation plans.

Introduction

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This shows the conceptual road alignment from the 2009 Concept Plan (Brookman Road is the east/west road in black).



Medium Density Residential-High 11 du/ac

Medium Density Residential- Low 8 du/ac

Commercial / Mixed Use

Employment



Existing Brookman Road Concept Plan

Notes:

Final-May 200

1. Existing Cemetery (Constrained Land)

2. Railroad Crossing (Grade Separated)

4. Redfern connection is pedestrian, bicycle and emergency access only

3. All street alignments are conceptual.

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Existing Brookman Road Concept Plan Features

In the summer of 2019, the City met with several stakeholders including property owners, developers, and others.

The following key findings emerged. Brookman road:

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- Does not feel safe in its current condition
- Future design should accommodate growth
- Needs more clarity on costs
- Should be safe for multiple types of users
- Scenic aspects of the area should be incorporated
- Should not be overbuilt

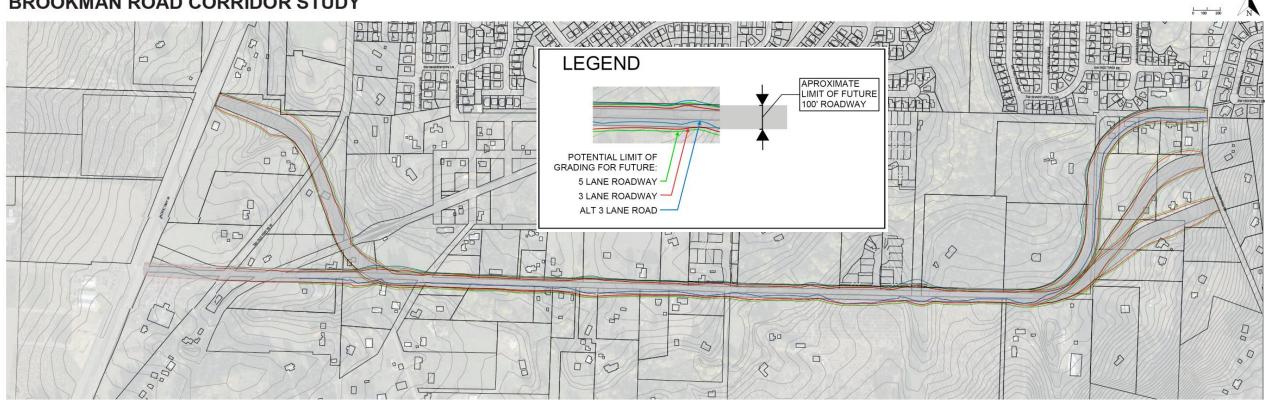
City of Sherwood

- Local needs should be served
- Speeds should be reduced
- Should connect to the rest of the City in a meaningful way

Stakeholder Meeting Results

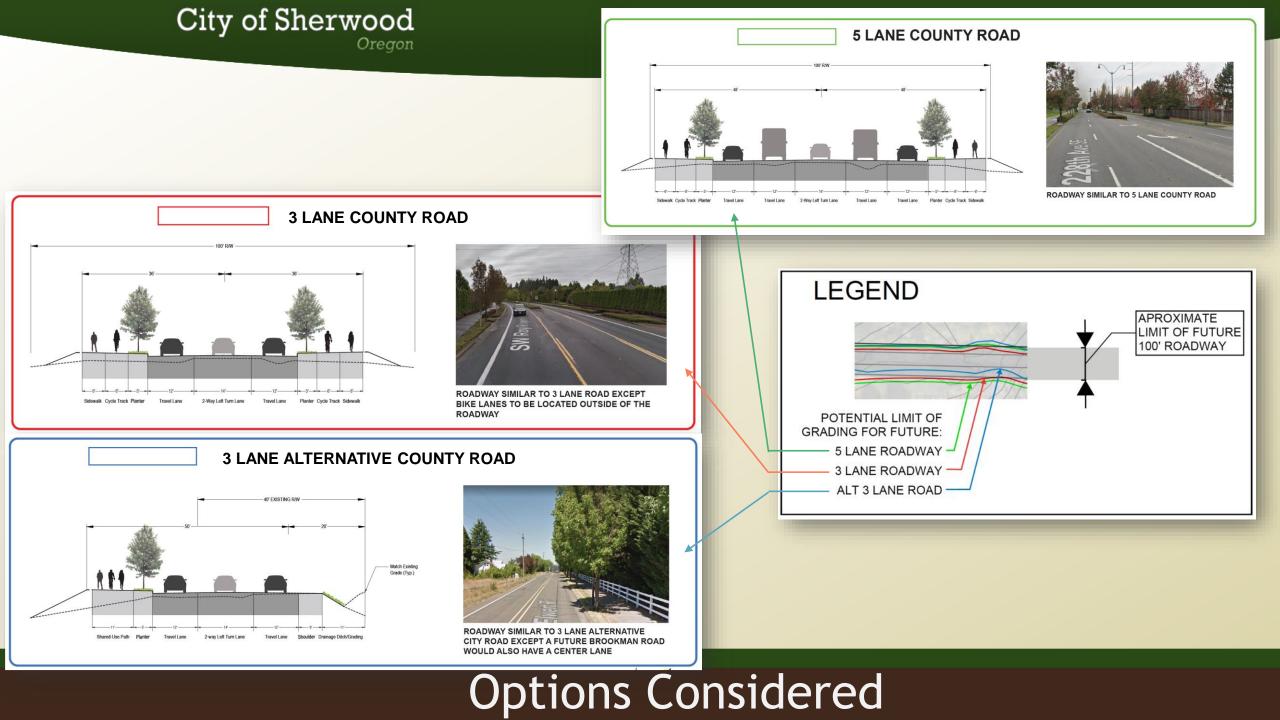
The alignment and grading impacts are conceptual and shown to illustrate possibilities. Final design may vary.

BROOKMAN ROAD CORRIDOR STUDY





Options Considered

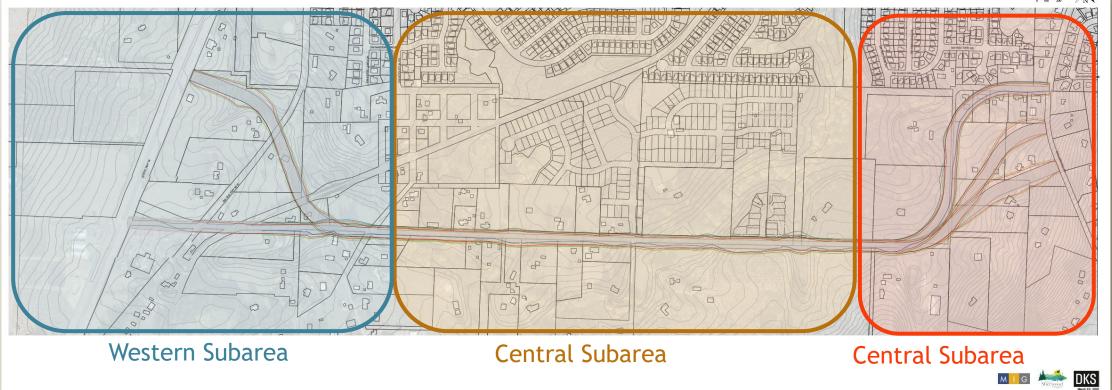


Let's look at each subarea in more detail and the options evaluated

BROOKMAN ROAD CORRIDOR STUDY

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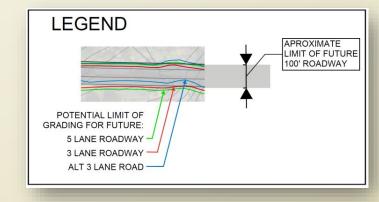
Options Considered

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Concept Plan Option: Require extensive amounts of new right-of-way

Recommended Option: Maintain existing right-ofway. Better aligns with the Sherwood West Concept Plan



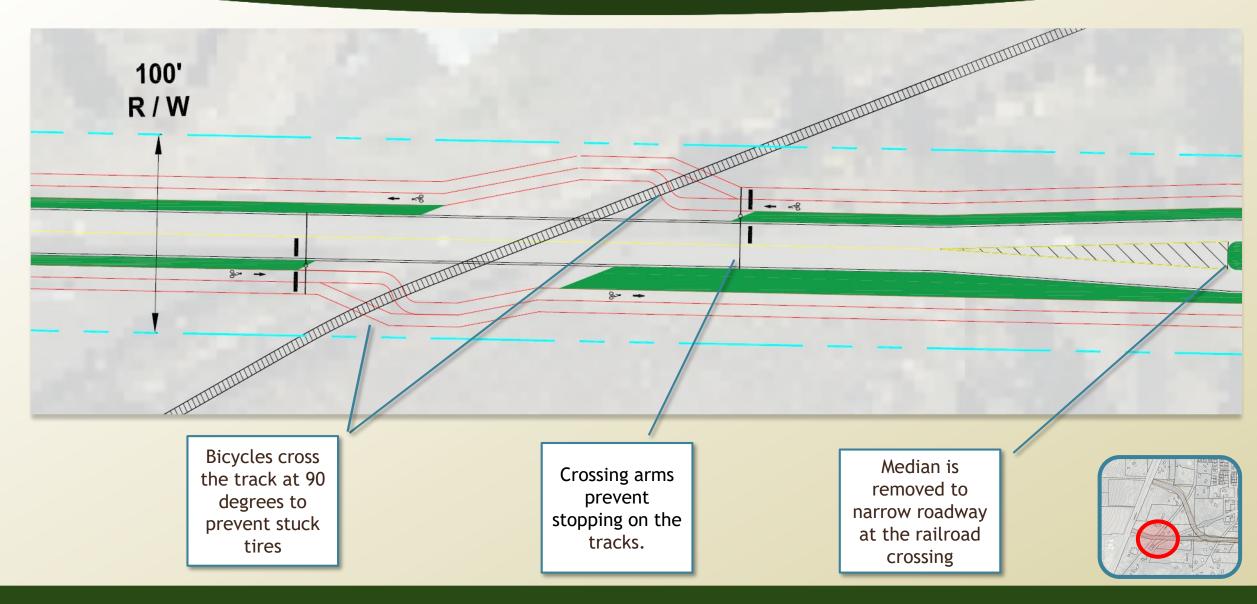


Recommended Option: Railroad track crossing designed with gates and coordinated with future signal at Brookman/OR 99W intersection. RR crossing does not need to be at 90 degrees.



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Western Connections



Possible Railroad Alignment Design

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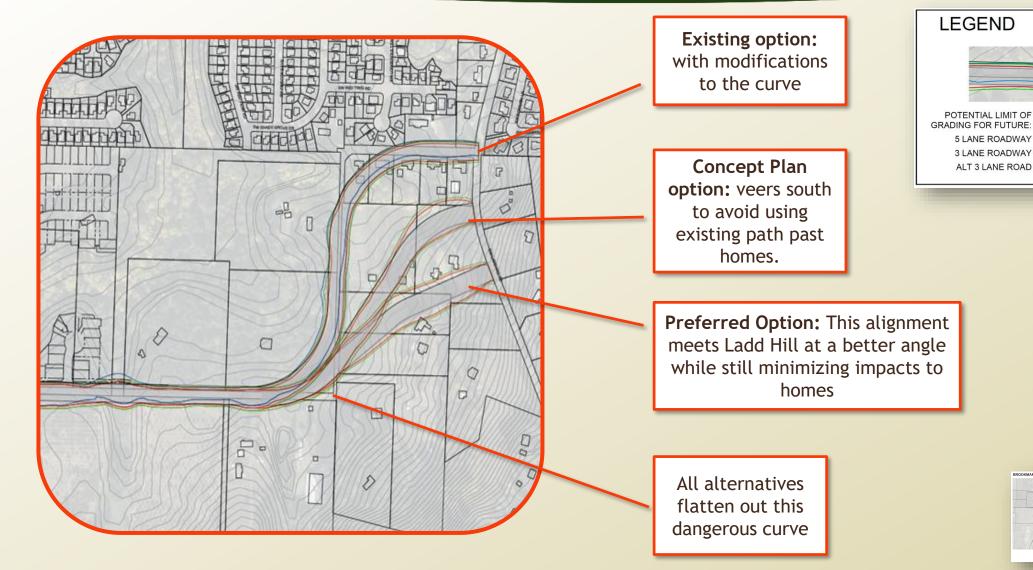


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Central Connections

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APROXIMATE LIMIT OF FUTURE 100' ROADWAY

The alignment and grading impacts are conceptual and shown to illustrate possibilities. Final design may vary.

Eastern Brookman Road

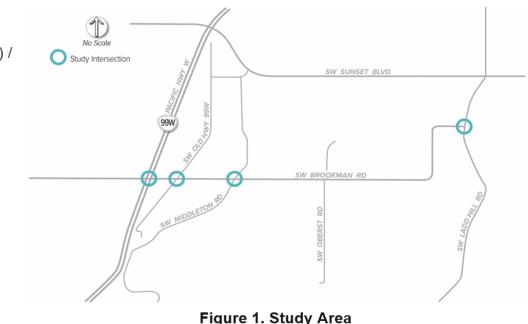
A transportation analysis was performed for SW Brookman Road between OR 99W and SW Ladd Hill Road as part of the Sherwood Brookman Addition Concept Plan Update.

The analysis provides an inventory of existing transportation facilities including operational analysis and evaluation of future conditions to determine the longterm roadway and intersection capacity and operational needs.

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- OR 99W (SW Pacific Hwy W) / SW Brookman Road
- SW Old Highway 99 West / SW Brookman Road
- SW Middleton Road /
 SW Brookman Road
- SW Ladd Hill Road /
 SW Brookman Road



Transportation Analysis Results

Results for existing traffic:

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- Vehicle counts were low at all times except PM commute hours, at which the Brookman/ 99W intersection operated at below acceptable levels.
- Little to no pedestrian activity was counted.

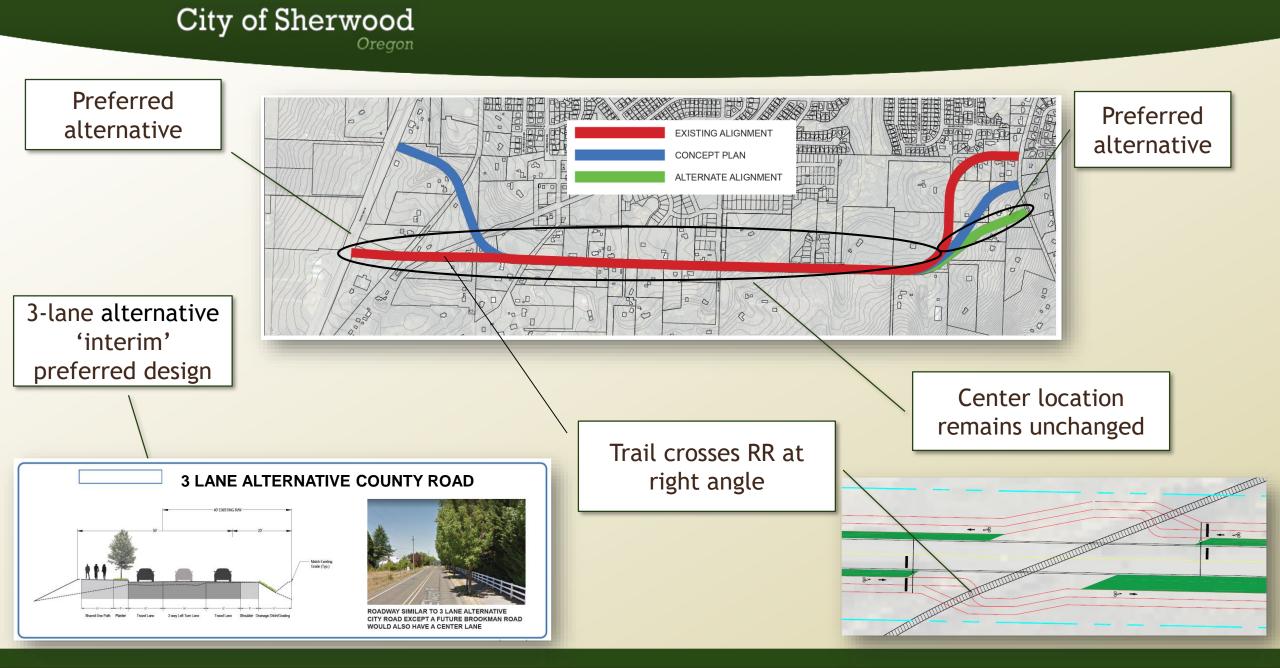
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• Only 3 bikes were counted at the intersection with 99W, nowhere else.

Results for future (2040) traffic:

- The transportation network was evaluated for the future year 2040 to assess the potential benefits and impacts of widening SW Brookman Road.
- 3-lane and 5-lane alternatives were analyzed.
- Using a 3-lane alternative with a turn lane will result in similar impacts to the 5 lane version, but at less overall costs.
- Both sections could accommodate pedestrians and bicycles.
- Should the railroad become active, the queue lengths would be acceptable in either alternative.

Transportation Analysis Results



Overall Recommendations

Based on the meetings, the traffic study, the alignment analysis and onsite research, the following is recommended:

• The existing zoning should remain.

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- A 3-lane alternative arterial design for Brookman Road should be used as the interim design until a full 5 lane construction is needed. This features a shared use path on the northern side of the road only.
- The 5-lane street design should remain the official long-term design with an arterial designation.
- The location of Brookman Road should remain the same in the center subarea.
- In the west subarea the alignment should deviate from the Concept Plan and continue along its existing path.
- The Railroad crossing should be designed to protect bike and pedestrian users by having a multi-user path cross the tracks at a 90-degree angle.
- In the east subarea, the southernmost alternative is preferred due to grades.

Summary of Recommendations

What are the Next Steps?

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- The city will need to adopt the proposed refinements to the Brookman Addition Concept Plan through a public hearings process during the summer of 2020.
- The city will continue to work with new development to construct or pay a fee-in-lieu for their proportional share of future improvements.
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- Sherwood, Washington County, and ODOT will continue to work together and seek funding to implement road improvements.

Next Steps



Please provide any comments to Matt Straite-

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Comments