

Planning Commission Thursday, January 4, 2024 6:30 PM Regular Meeting

HYBRID Meeting

IN PERSON – McMinnville Civic Hall, 200 NE Second Street, or ZOOM Online Meeting

Please note that this is a hybrid meeting that you can join in person at 200 NE Second Street or online via Zoom

ZOOM Meeting: You may join online via the following link:

https://mcminnvilleoregon.zoom.us/j/84808603865?pwd=WE03Ukt3bDU5VkUwRUhla1Jnb2w0QT09

Meeting ID: 848 0860 3865

Meeting Password: 166748

Public Participation:

Citizen Comments: If you wish to address the Planning Commission on any item not on the agenda, you may respond as the Planning Commission Chair calls for "Citizen Comments."

Public Hearing: To participate in the public hearings, please choose one of the following.

- 1) Written testimony in advance of the meeting Email written testimony at any time up to 12 p.m. the day before the meeting to <u>heather.richards@mcminnvilleoregon.gov</u>, that email will be provided to the planning commissioners, lead planning staff and entered into the record at the meeting.
- 2) In person at the meeting Sign up in advance to provide testimony at the meeting by emailing <u>heather.richards@mcminnvilleoregon.gov</u>, or sign up at the meeting by filling out a testimony form found at the entry to the hearing chambers.
- 3) **By ZOOM at the meeting** Join the zoom meeting and send a chat directly to Planning Director, Heather Richards, to request to speak indicating which public hearing, and/or use the raise hand feature in zoom to request to speak once called upon by the Planning Commission chairperson. Once your turn is up, we will announce your name and unmute your mic.
- 4) **By telephone at the meeting** If appearing via telephone only please sign up prior to the meeting by emailing the Planning Director, <u>Heather.Richards@mcminnvilleoregon.gov</u> as the chat function is not available when calling in zoom.

----- MEETING AGENDA ON NEXT PAGE ------

The meeting site is accessible to handicapped individuals. Assistance with communications (visual, hearing) must be requested 24 hours in advance by contacting the City Manager (503) 434-7405 – 1-800-735-1232 for voice, or TDY 1-800-735-2900.

*Please note that these documents are also on the City's website, <u>www.mcminnvilleoregon.gov</u>. You may also request a copy from the Planning Department. Pages 1 of 366

Commission Members	Agenda Items				
Sidonie Winfield, Chair	6:30 PM – REGULAR MEETING				
Gary Langenwalter Vice - Chair	 Call to Order Swearing in of New Commissioner Elena Mudrak 				
Matthew Deppe	 Selection of Chair and Vice-Chair - (Exhibit 1) Citizen Comments 				
Rachel Flores	5. Public Hearings:				
Sylla McClellan	A. <u>Quasi-Judicial Hearing: Planned Development Amendment</u> (PDA 1-23), Subdivision (S 1-23 and Three Mile Lane Review (TML 5- 23), for a Town Home Housing Development at 235 NE Dunn Place) –				
Elena Mudrak Brian Randall	(Exhibit 2)				
Beth Rankin	<i>(Continued from December 7, 2023)</i> Requests: The applicant is requesting concurrent review and approval of				
Dan Tucholsky	three applications for the Dunn Place 21-Lot Subdivision Townhouse Development: a Planned Development Amendment for an amended Master Plan (PDA 1-23), Subdivision Tentative Plan approval for the 21-lot subdivision (S 1-23), Three Mile Lane Review (TML 5-23). (VR 3-23). Tax Lot R44CD 01700				
	Applicant: Andrey Chernishov, HBH Consulting, on behalf of, property owner Evergreen Court Townhomes LLC, c/o Jason Flores				
	B. Legislative Hearing: Comprehensive Plan Amendment (Docket G 1-22) - (Exhibit 3)				
	Proposal: THE CITY OF MCMINNVILLE IS PROPOSING AN AMENDMENT TO THE MCMINNVILLE COMPREHENSIVE PLAN AS FOLLOWS: A proposal to adopt the Fox Ridge Road Area Plan as a supplemental document to the McMinnville Comprehensive Plan.				
	Applicant: City of McMinnville				
	C. <u>Legislative Hearing: Comprehensive Plan Amendment and Zoning</u> Ordinance Amendment (Docket G 3-22) – (Exhibit 4)				
	(Continued from November 16, 2023)				
The meeting site is accessible	Proposal: THE CITY OF MCMINNVILLE IS PROPOSING AMENDMENTS TO THE MCMINNVILLE COMPREHENSIVE PLAN AND ZONING ORDINANCE FOR A NATURAL HAZARDS INVENTORY AND MANAGEMENT PROGRAM, to handicapped individuals. Assistance with communications (visual hearing) must be requested				

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AS FOLLOWS: Amendment to the McMinnville Comprehensive Plan, Volume I - Background Element, adopting the Natural Hazards Inventory and Management Program Options and Recommendations; amendment to the McMinnville Comprehensive Plan, Volume II – Goals and Policies, adding a new Chapter XI, entitled Natural Features; amendments to the McMinnville Municipal Code, Chapters 17.48, Flood Area Zone, and Chapter 17.49, Natural Hazard Overlay Subdistricts; and the adoption of the Natural Hazard Mitigation Zone (NH-M) and Natural Hazard Protection Zone (NH-P)

Applicant: City of McMinnville

- 6. Commissioner Comments
- 7. Staff Comments
- 8. Adjournment

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EXHIBIT 1 - MEMORANDUM

DATE:January 4, 2024TO:Planning Commission MembersFROM:Heather Richards, Community Development DirectorSUBJECT:Agenda Item – Election of Planning Commission Officers

The annual election of officers has been placed on your January 4, 2024 meeting agenda. As part of this process, the Planning Commission shall elect a Chair and Vice-Chair at the first meeting of each year. The Chair presides over the meeting and public hearings. The Vice-Chair will preside over the meetings and public hearings in the Chair's absence.

The following outline is provided to help guide you through this election process.

Nominations of chair and vice-chair

- 1. Begin with the nominations for the position of the chair. Any Commission member may nominate another member. Commission members can also nominate themselves. Nominations do not have to be seconded. If a nominee does not wish to be considered, that person can decline the nomination. When nominations stop, the chair will call for any more nominations. When no other nominations are forthcoming, the chair will state that the nominations are closed. Once the nominations are closed, the chair will state the names of the nominees. Each member must state their vote for the chair. If one person receives a majority of the vote, the chair will declare the result of the vote. If no one receives a majority of the vote, the vote must be done again. No person can be eliminated as a nominee, but any nominee can withdraw their nomination. The voting will continue until one person receives a majority of the vote.
- 2. The vice-chair will then be elected in the same manner.
- 3. At the close of the elections, the new chair will preside over the remainder of the meeting.



EXHIBIT 2 - STAFF REPORT

DATE: January 4, 2024 TO: Planning Commission Members FROM: Tom Schauer, Senior Planner SUBJECT: Public Hearing – Planned Development Amendment PDA 1-23, Subdivision S 1-23, Three Mile Lane Review TML 5-23

STRATEGIC PRIORITY & GOAL:



OBJECTIVE/S: Strategically plan for short and long-term growth and development that will create enduring value for the community

Report in Brief:

This proceeding is a quasi-judicial public hearing of the Planning Commission to consider concurrent review of three applications for property totaling approximately 2.83 acres located at 235 NE Dunn Place (Tax Lot R4422CD 01700). See Vicinity Map (Figure 1) and Zoning Map (Figure 2). This is a continuance of the December 7, 2023 Planning Commission hearing. The applicant provided a 60-day extension to the 120-day processing timeline to March 9, 2024. The local decision, including resolution of any local appeals must be issued by that date.

The applications are: Planned Development Amendment PDA 1-23, Subdivision Tentative Plan S 1-23 and Three Mile Lane Review TML 5-23. The applications are submitted by the applicant for a proposal for a 21-lot subdivision and townhouse development, "Dunn Place" on property which is approximately 2.83 acres.

The requests are summarized below:

PDA 1-23. The subject property is subject to an existing Planned Development Overlay Ordinance. The proposal includes revisions to the original Planned Development master plan, which requires approval of a Planned Development Amendment.

S 1-23. The subdivision tentative plan application is for 21 lots: 20 lots for townhouses and one additional lot.

TML 5-23. The subject property is within the Three Mile Lane Planned Development Overlay, established by Ordinance 4131 and subsequently revised by Ordinances 4572, 4666, 4988, and

5101. The proposed development is subject to policies and standards of the Three Mile Lane Planned Development Overlay Ordinance.

This is a consolidated review to consider these three applications associated with the development of the subject property. There will be one public hearing to receive testimony, and then three separate votes will be taken: one vote for each application, based on the applicable criteria.

The consolidated review procedures specify that the decisions for all applications are subject to the procedure that affords the most opportunity for public hearing and notice:

<u>17.72.070 Concurrent Applications.</u> When a proposal involves more than one application for the same property, the applicant may submit concurrent applications which shall be processed simultaneously. In so doing, the applications shall be subject to the hearing procedure that affords the most opportunity for public hearing and notice.

The Planning Commission will make the decisions on the applications. That will be the final local decision unless the applications are appealed to City Council.

Background:

The applicable criteria and standards are summarized below:

- The applicable criteria for the Planned Development Amendment are specified in Section 17.74.070 of the Zoning Ordinance and Planned Development Ordinances 4719 and 4956.
- The applicable criteria for the Subdivision Tentative Plan are provided in Chapter 17.53 of the Zoning Ordinance.
- The applicable criteria for the Three Mile Lane Ordinance are provided in the policies and applicable provisions of Ordinance 4131 (as amended).
- Applicable Goals and Policies of the Comprehensive Plan are also criteria for land use decisions.

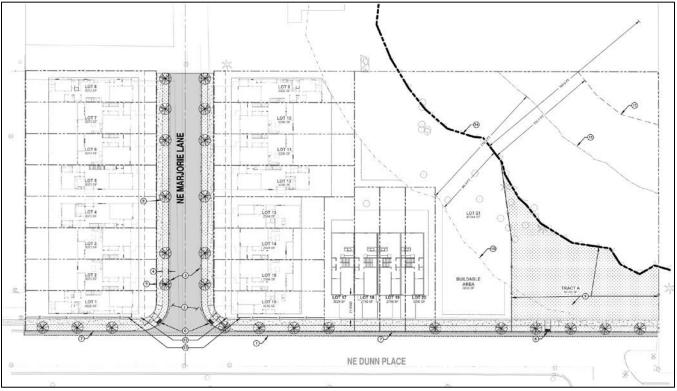
Some of the criteria also reference compliance with applicable provisions of the Zoning Ordinance and other applicable ordinances and policies. Those are addressed in the Decision Document.

The subject property is zoned R-4 PD, which means it is subject to the provisions of the R-4 zone, except as modified by the provisions of a Planned Development Overlay Ordinance applicable to the property.

Currently, the approved Planned Development master plan for tax lot 1700 is for a memory care facility. **See Figure 4 for current and previous master plan approval.** The proposed Planned Development Amendment would replace the currently approved PD master plan with the plan for the proposed 21-lot subdivision and townhouse development. The applicant's proposed plans are shown in *Figure 3a.* On December 7, the applicant also submitted a revised plan showing a larger open space area related to recommended conditions of approval. That plan also showed additional information related to features and setbacks associated with the river and riparian area. *See below.*

Page |2

December 7, 2023 Submittal



ПП

SITE PLAN

 $[\square]$

SCALE: 1" = 20'

🛞 SITE PLAN KEYED NOTES

- 1. SAWCUT EXISTING ASPHALT
- 2. INSTALL ASPHALT ROADWAY
 3. INSTALL 18" CURB & GUTTER ON MARJORIE LANE
- INSTALL 5.0' WIDE PLANTER STRIP (TYP)
- INSTALL 5.0' SIDEWALK (TYP)
- 6. ADA RAMP (TYP)

- INSTALL STANDARD CURB ON NE DUNN PLACE
 STREET TREE (TYP)
- 3. STREET TREE (TYP)
- 9. SHRUBS AND GRASS MEETING CITY PLANTING REQUIREMENTS W/ FENCE SURROUNDING TRACT A.
- 10. 60' SLOPE SETBACK LINE FROM TOP OF BANK
- 11. F-P ZONE BOUNDARY
- 12. EXISTING 12' WIDE PUE

13. 6' TALL WOODEN GOOD NEIGHBOR FENCE ON PUE LINE FOR SIDE YARDS ALONG DUNN PLACE

 \square

- 14. TOP OF RIVER BANK
- 15. FEMA 100-YEAR FLOODPLAIN

Original Submittal

December 7, 2023 Submittal



Discussion:

The proposed Planned Development Amendment application would amend the Planned Development to replace the previous portion of the master plan for Tax Lot 1700 with the new master plan for the subdivision and townhouse development. The other two applications S 1-23 and TML 5-23 address the proposed subdivision and consistency with the Three Mile Lane Planned Development Overlay Ordinance.

Several issues were discussed at the December 7 hearing. These are summarized below.

• Predominant issues were related to hazards associated with the river, riverbank, site conditions, and appropriate setbacks. The original decision document included staff's recommendation based on the geotechnical report submitted by the applicant, consistent with the previous development approvals on the subject property. Following subsequent testimony regarding the issues, staff sought a third-party review of the report. That third party review letter by Jason Bock, PE with GRI is attached to the December 7, 2023 staff memo. The memo included

recommendations for additional analysis, to include analysis based on updated provisions of the current building code. The applicant engaged Strata Design, and they have provided Addendum #1 to the geotechnical report, dated December 22, 2203, which addresses the issues in the review letter by Jason Bock, PE. **See Attachment 2.** The addendum re-affirms the suitability of the 60-foot setback from top of physical bank. Staff has provided the Addendum to Jason Bock, and will provide his response upon receipt.

Most of the proposed structures would be more than 80 feet from top of physical bank, with the majority of those also exceeding 100 feet from top of physical bank. One unit, on Lot 9, shown as a 1-story unit is shown with the corner at the 60-foot setback. At the December 7 hearing, the applicant indicated that unit could be revised to a 2-story unit, which would have additional setback and also provide a larger usable rear yard outside of the 60-foot setback.

• Rear of some lots extended into 60-foot setback area. While the proposed townhouse structures were outside of the 60-setabck, three lots: 9, 10, and 20 have rear portions of the lots that extend into the 60-setback area, presenting questions about how fencing and small accessory structures, which are allowed within rear-yard setbacks, would be regulated.

Staff recommends a revised condition that those lots be reconfigured so those lots do not extend into the 60-foot setback. This condition is incorporated in the revised decision document.

At the December 7 hearing, the applicant indicated the proposed townhouse on Lot 9 could be revised to a 2-story unit, which would leave a usable rear yard similar to the other 2-story units. Lots 10 and 20 would continue to have usable rear yards if adjusted.

• Administrative Rule restricting "middle housing" within 100 feet of riparian corridor. The December 7 staff memo described this issue in more detail regarding an administrative rule that supersedes local regulations. The rule restricts "middle housing" within 100 feet of a riparian corridor until a City has completed its Goal 5 riparian planning work consistent with administrative rules. The applicant's December 7 plan shows the proposal would significantly exceed the 100-foot setback measured from the "bankfull stage" (2-year flood) consistent with staff's understanding of the administrative rule. Staff has requested that DLCD provide their interpretation of the rule, but that has not been received that.

Staff recommends a condition of approval that the applicant demonstrate consistency with DLCD's interpretation of the rule.

• Townhouse design and development standards. The applicant provided additional findings on December 7, 2023, including findings regarding the residential design and development standards in Chapter 17.11 of the Zoning Ordinance. The applicant has not requested flexibility to those standards, except as they noted relating to driveway spacing. With the widths of townhouse lots of approximately 22 feet to 27 feet and garages provided for each townhouse, it wouldn't be feasible to achieve the driveway spacing specified in the universal design standards, and staff recommends flexibility to the driveway spacing standards therefore be approved. Some units, 13&14 18&19 and have paired driveways, providing some additional space on the opposite sides of the lots. Lots 17 and 20 have driveways on the "inside" sides of the townhouse lots, leaving more uninterrupted curb area on the "outside sides" of the lots along Dunn Place.

Staff recommends that flexibility to the driveway spacing standards be approved for the townhouse development as part of the planned development. All other standards where flexibility is not requested/proposed as part of the Planned Development will be addressed as part of the building permit review at time of building permit application.

Subject to conditions, the applications are consistent with applicable criteria and standards of the Zoning Ordinance and other ordinances.

Agency comments are included in the decision document.

Written testimony submitted through the December 7, 2023 hearing is provided on the City website at: <u>https://www.mcminnvilleoregon.gov/cd/page/dunn-place-subdivision-townhomes-s-1-23-pda-1-23-tml-5-23</u>

As of December 28, 2023, additional written material after December 7, 2023 is Addendum #1 to the Geotechnical Report attached as Attachment 2.

Attachments:

- 1. Updated Decision Document
- 2. Geotechnical Report Addendum #1 from Strata Design dated December 22, 2023
- 3. All previous written materials and written testimony submitted through the December 7, 2023 Planning Commission hearing are available here:

https://www.mcminnvilleoregon.gov/cd/page/dunn-place-subdivision-townhomes-s-1-23-pda-1-23-tml-5-23

Planning Commission Options:

- 1. **APPROVE** the applications as proposed by the applicant, <u>per the decision document</u> provided, which includes conditions and findings.
- 2. **CONTINUE** the public hearing to a <u>specific date and time</u>.
- 3. Close the public hearing, but **KEEP THE RECORD OPEN** for the receipt of additional written testimony until a <u>specific date and time</u>.
- 4. Close the public hearing and **DENY** the application, <u>providing findings of fact</u> for the denial, specifying which criteria are not satisfied, or specifying how the applicant has failed to meet the burden of proof to demonstrate all criteria are satisfied, in the motion to deny.

Staff Recommendation:

PDA 1-23

Staff has reviewed the proposal for consistency with the applicable criteria. Staff finds that, based on the findings in the attached Decision Document, the application submitted by the applicant and the record contain evidence that demonstrates that, with conditions, the application complies with the applicable criteria and that the applicant has met the burden of proof.

Staff **RECOMMENDS APPROVAL** of the application based on the findings and conditions in the attached Decision Document.

<u>S 1-23</u>

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Staff **RECOMMENDS APPROVAL** of the application based on the findings and conditions in the attached Decision Document.

<u>TML 5-23</u>

Staff has reviewed the proposal for consistency with the applicable criteria. Staff finds that, based on the findings in the attached Decision Document, the application submitted by the applicant and the record contain evidence that demonstrates that, with conditions, the application complies with the applicable criteria and that the applicant has met the burden of proof.

Staff **RECOMMENDS APPROVAL** of the application based on the findings and conditions in the attached Decision Document.

Suggested Motion:

<u>PDA 1-23</u>

BASED ON THE FINDINGS OF FACT, THE CONCLUSIONARY FINDINGS FOR APPROVAL, THE MATERIALS SUBMITTED BY THE APPLICANT, AND EVIDENCE IN THE RECORD, I MOVE THAT THE PLANNING COMMISSION <u>APPROVE</u> THE DECISION DOCUMENT AND <u>APPROVE</u> PLANNED DEVELOPMENT AMENDMENT, PDA 1-23, SUBJECT TO THE CONDITIONS IN SECTION II OF THE DECISION DOCUMENT.

<u>S 1-23</u>

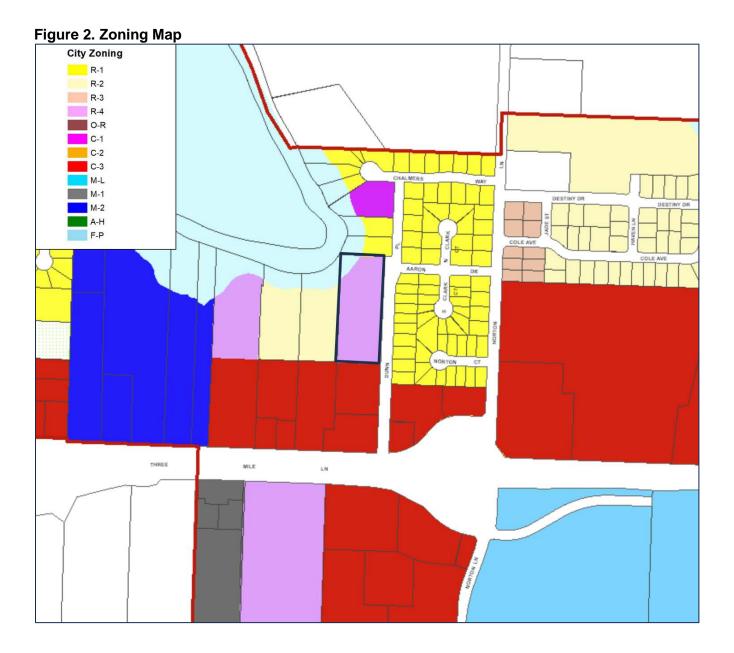
BASED ON THE FINDINGS OF FACT, THE CONCLUSIONARY FINDINGS FOR APPROVAL, THE MATERIALS SUBMITTED BY THE APPLICANT, AND EVIDENCE IN THE RECORD, I MOVE THAT THE PLANNING COMMISSION <u>APPROVE</u> THE DECISION DOCUMENT AND <u>APPROVE</u> THE SUBDIVISION TENTATIVE PLAN, S 1-23, SUBJECT TO THE CONDITIONS IN SECTION II OF THE DECISION DOCUMENT.

TML 5-23

BASED ON THE FINDINGS OF FACT, THE CONCLUSIONARY FINDINGS FOR APPROVAL, THE MATERIALS SUBMITTED BY THE APPLICANT, AND EVIDENCE IN THE RECORD, I MOVE THAT THE PLANNING COMMISSION <u>APPROVE</u> THE DECISION DOCUMENT AND <u>APPROVE</u> THE THREE MILE LANE DESIGN REVIEW, TML 5-23, SUBJECT TO THE CONDITIONS IN SECTION II OF THE DECISION DOCUMENT.

Figure 1. Aerial Photo and Vicinity Map





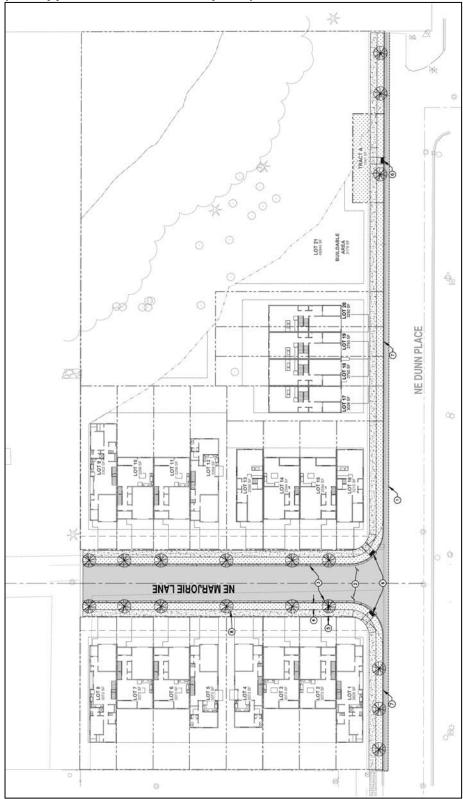
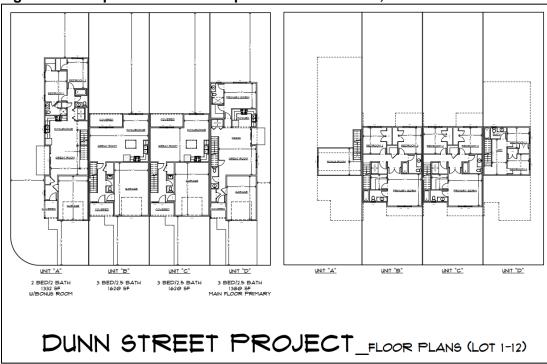
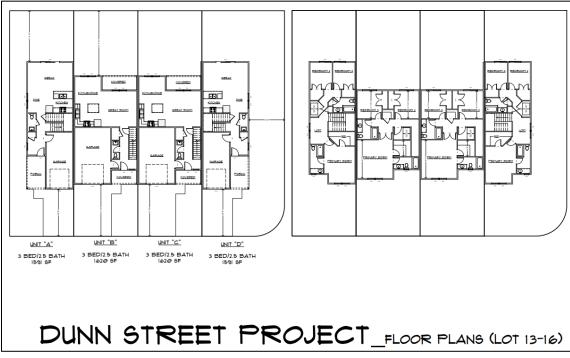


Figure 3a. Proposed Master Plan – Site Plan Summary (Original Submittal) (See applications for detailed plans).













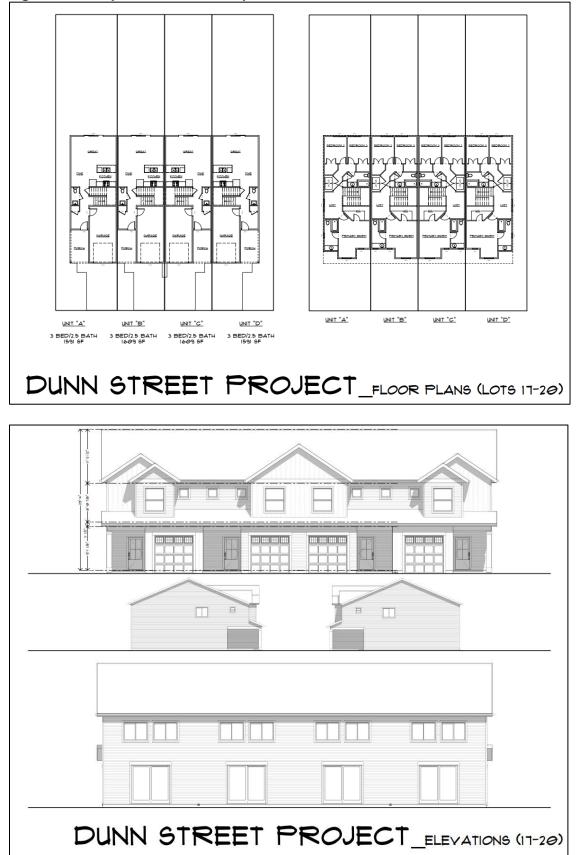
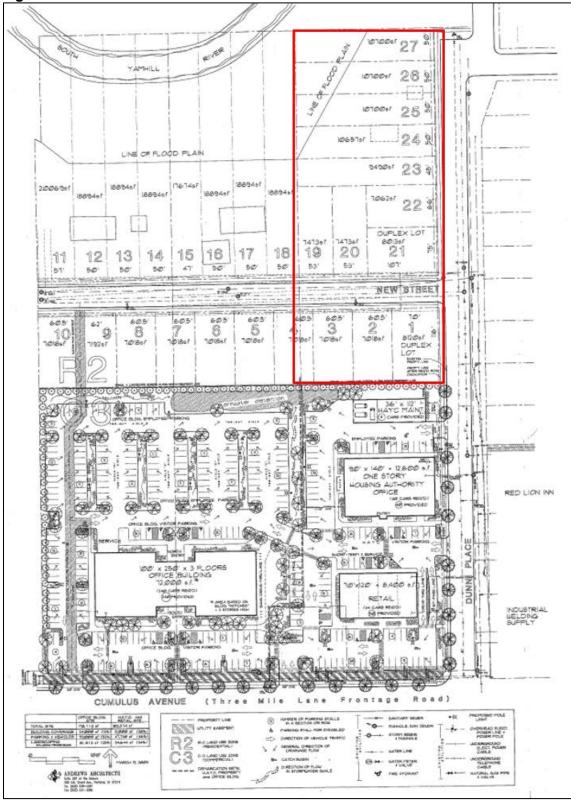


Figure 3d. Proposed Plan – Floorplans and Elevations, 17-20

Previous Master Plans -

Figure 4a. 2003



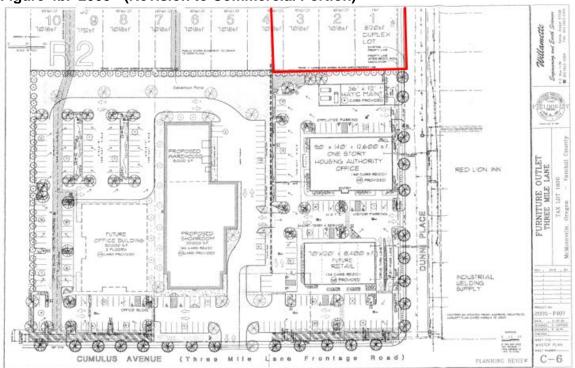
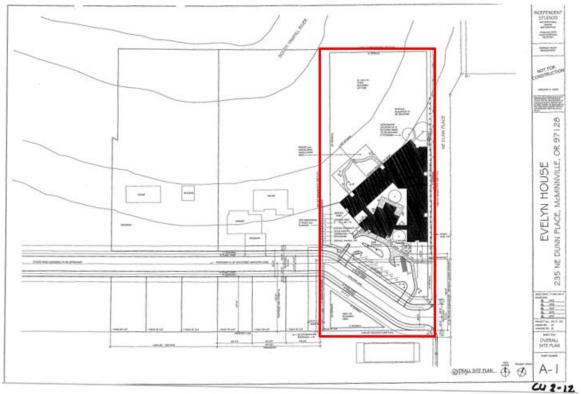


Figure 4b. 2005 - (Revision to Commercial Portion)

Figure 4c. 2012 – (Revision to TL 1700)



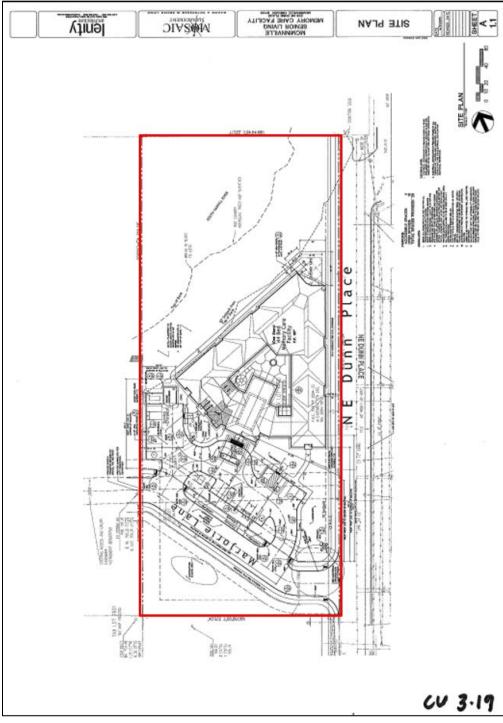


Figure 4d. 2019 - (TL 1700 - Consistent with 2012 Amendment)





CITY OF MCMINNVILLE COMMUNITY DEVELOPMENT 231 NE FIFTH STREET MCMINNVILLE, OR 97128

503-434-7311 www.mcminnvilleoregon.gov

DECISION, CONDITIONS, FINDINGS OF FACT AND CONCLUSIONARY FINDINGS FOR THE APPROVAL OF A PLANNED DEVELOPMENT AMENDMENT, SUBDIVISION TENTATIVE PLAN, AND THREE MILE LANE REVIEW, FOR PROPERTY AT 235 NE DUNN PLACE, TAX LOT R4422CD 01700

DOCKET: PDA 1-23 (Planned Development Amendment) S 1-23 (Subdivision Tentative Plan) TML 5-23 (Three Mile Lane Review)

REQUEST: Applications for a Planned Development Amendment (PDA 1-23), Subdivision Tentative Plan (S 1-23), and Three Mile Lane Review (TML 5-23). The applications are submitted by the applicant for a proposal for a 21-lot subdivision and townhouse development, "Dunn Place" on property which is approximately 2.83 acres.

The requests are summarized below:

PDA 1-23. The subject property is subject to an existing Planned Development Overlay Ordinance. The proposal includes revisions to the original Planned Development master plan, which requires approval of a Planned Development Amendment.

S 1-23. The subdivision tentative plan application is for 21 lots: 20 lots for townhouses and one additional lot.

TML 5-23. The subject property is within the Three Mile Lane Planned Development Overlay, established by Ordinance 4131 and subsequently revised by Ordinances 4572, 4666, 4988, and 5101. The proposed development is subject to policies and standards of the Three Mile Lane Planned Development Overlay Ordinance.

- LOCATION: Address: 235 NE Dunn Place Map & Tax Lot: R4422CD 01700
- **ZONING:** R-4 PD and F-P
- APPLICANT: Andrey Chernishov, HBH Consulting, on behalf of property owner Evergreen Court Townhomes LLC, c/o Jason Flores
- **STAFF:** Tom Schauer, Senior Planner

DATE DEEMED COMPLETE:

October 11, 2023

DECISION MAKING BODY & ACTION:	The McMinnville Planning Commission makes the decisions on the applications. The Planning Commission's decisions are the final local decision unless their decisions are appealed to City Council.			
HEARING DATE & LOCATION:	December 7, 2023, continued to January 4, 2024. The applicant granted a 60- day extension to the 120-day period to March 9, 2024.			
	This will be a hybrid meeting with the opportunity to join an in-person meeting at Civic Hall or virtually on a zoom meeting.			
	Meeting Location: McMinnville Civic Hall, 200 NE 2 nd Street, McMinnville, OR 97128			
	Zoom Online Meeting: https://mcminnvilleoregon.zoom.us/j/84808603865?pwd=WE03Ukt3bDU5VkUw RUhla1Jnb2w0QT09			
	Meeting ID: 848 0860 3865 Passcode: 166748			
	The public may also join the Zoom meeting by phone by using the phone number and meeting ID below:			
	Phone: +1 253 215 8782, Meeting ID: 848 0860 3865			
PROCEDURE:	For consolidated application review, the applications are processed in accordance with the procedures in Section 17.72.120 of the Zoning Ordinance. The applications are reviewed by the Planning Commission in accordance with the quasi-judicial public hearing procedures specified in Section 17.72.130 of the Zoning Ordinance. As specified in Ordinance 5095, the Planning Commission makes the final local decision, unless their decision is appealed to City Council.			
CRITERIA:	McMinnville Municipal Code (MMC) and Other Ordinance Sections: -Planned Development Amendment: MMC 17.74.070 & Ordinances 4719 & 4956 -Subdivision Tentative Plan: MMC Chapter 17.53. Land Division Standards, Subdivision (17.53.070-079); 17.53.100-153, 17.43.150-153 -Three Mile Lane Review: Ord. 4131 as subsequently amended			
	Applicable Comprehensive Plan Goals and Policies are criteria for land use decisions.			
APPEAL:	The Planning Commission's decision may be appealed to the City Council within 15 calendar days of the date the written notice of decision is mailed as specified in Section 17.72.180 of the Zoning Ordinance. The City's final decision is subject to a 120-day processing timeline, including resolution of any local appeal, per MMC 17.72.050 and ORS 227. A decision of the City Council is appealable to			

COMMENTS: This matter was referred to the following public agencies for comment: McMinnville Fire Department, Police Department, Engineering Department, Building Department, Parks Department, Public Works Department, Waste

extension of the 120-day period to March 9, 2023.

LUBA as specified in Section 17.72.190. The applicant granted a 60-day

Attachments: Attachment 1 – Applications and Attachments, 2 – December 7 Staff Memo, 3 – December 7 Submittal from Andrey Chernishov, 4 – December 7 Submittal from Joe Strunk, 5 – Geotechnical Report Addendum #1 from Strata Design

Water Services, City Manager, and City Attorney; McMinnville Water and Light; McMinnville School District No. 40; Yamhill County Planning Department; Frontier Communications; Comcast; Recology; Oregon Department of State Lands; and Northwest Natural Gas. Their comments are provided in Section IV this document.

DECISION

Based on the findings and conclusionary findings, the Planning Commission finds the applicable criteria are satisfied with conditions and **APPROVES** the Planned Development Amendment (PDA 1-23), Subdivision Tentative Plan (S 1-23), and Three Mile Lane Review (TML 5-23), **subject to the conditions of approval provided in Section II of this document.**

PDA 1-23: APPROVAL WITH CONDITIONS

- S 1-23: APPROVAL WITH CONDITIONS
- TML 5-23: APPROVAL WITH CONDITIONS

Planning Department: _____ Heather Richards, Planning Director Date:

Date:

I. APPLICATION SUMMARY:

Subject Property & Request

The subject property is approximately 2.83 acres located at 235 NE Dunn Place, Tax Lot:R4422CD 01700. The applications are submitted by the applicant for a proposal for a 21-lot subdivision and townhouse development, "Dunn Place." There are three concurrent applications for review: Planned Development Amendment (PDA 1-23), Subdivision Tentative Plan (S 1-23), and Three Mile Lane Review (TML 5-23). The requests are summarized below:

PDA 1-23. The subject property is subject to an existing Planned Development Overlay Ordinance. The proposal includes revisions to the original Planned Development master plan, which requires approval of a Planned Development Amendment.

S 1-23. The subdivision tentative plan application is for 21 lots: 20 lots for townhouses and one additional lot.

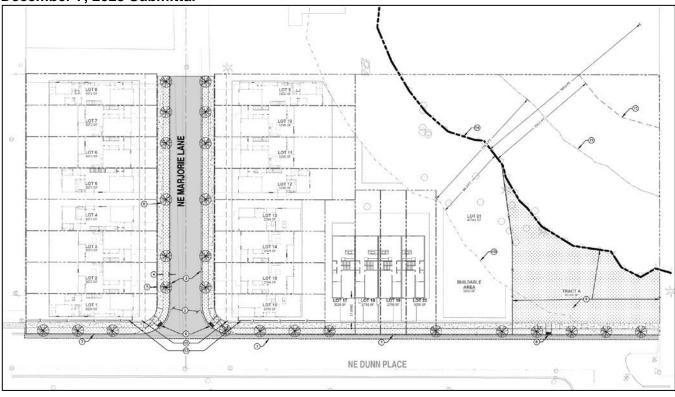
TML 5-23. The subject property is within the Three Mile Lane Planned Development Overlay, established by Ordinance 4131 and subsequently revised by Ordinances 4572, 4666, 4988, and 5101. The proposed development is subject to policies and standards of the Three Mile Lane Planned Development Overlay Ordinance.

See Figure 1 for Vicinity Map & Aerial Photo and Figure 2 for Zoning Map. See Figure 3 for proposed plans. See Figure 4 for current and previous PD master plans.

The property is zoned R-4 PD and F-P. Planned Development Ordinances 4719 and 4956 include conditions, including provisions addressing the Planned Development master plan and its amendment. The property is also located within the Three Mile Lane Planned Development Overlay (Ordinance 4131/4572), within the boundary of the new Three Mile Lane Area Plan (adopted by Ordinance 5126), and the Horizontal Surface Area of Airport Overlay Zone (MMC 17.52).

Currently, the approved Planned Development master plan for tax lot 1700 is for a memory care facility. **See Figure 4 for current and previous master plan approval.** The proposed Planned Development Amendment would replace the currently approved PD master plan with the plan for the proposed 21-lot subdivision and townhouse development. The applicant's proposed plans are shown in *Figure 3a.* On December 7, the applicant also submitted a revised plan showing a larger open space area related to recommended conditions of approval. That plan also showed additional information related to features and setbacks associated with the river and riparian area. *See below.*

December 7, 2023 Submittal



			ГП		· · · ·
SIT			TE PLAN		
\otimes	SITE PLAN KEYED NOTES		SCALE: 1	" = 20"	
1.	SAWCUT EXISTING ASPHALT	7.	INSTALL STANDARD CURB ON NE DUNN PLACE	42	6' TALL WOODEN GOOD NEIGHBOR FENCE ON PUE LINE FOR
2.	INSTALL ASPHALT ROADWAY	8.	STREET TREE (TYP)	13.	SIDE YARDS ALONG DUNN PLACE
3.	INSTALL 18" CURB & GUTTER ON MARJORIE LANE	9.	SHRUBS AND GRASS MEETING CITY PLANTING REQUIREMENTS	14.	TOP OF RIVER BANK
4.	4. INSTALL 5.0' WIDE PLANTER STRIP (TYP)		W/ FENCE SURROUNDING TRACT A.	15.	FEMA 100-YEAR FLOODPLAIN
5.	INSTALL 5.0' SIDEWALK (TYP)		60' SLOPE SETBACK LINE FROM TOP OF BANK		
6.	6. ADA RAMP (TYP)		F-P ZONE BOUNDARY		
		12.	EXISTING 12' WIDE PUE		

Original Submittal

December 7, 2023 Submittal



Figure 1. Aerial Photo and Vicinity Map



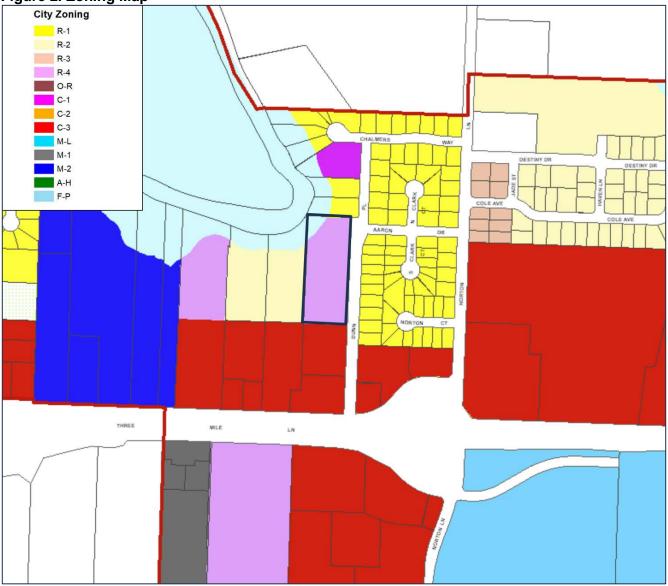


Figure 2. Zoning Map

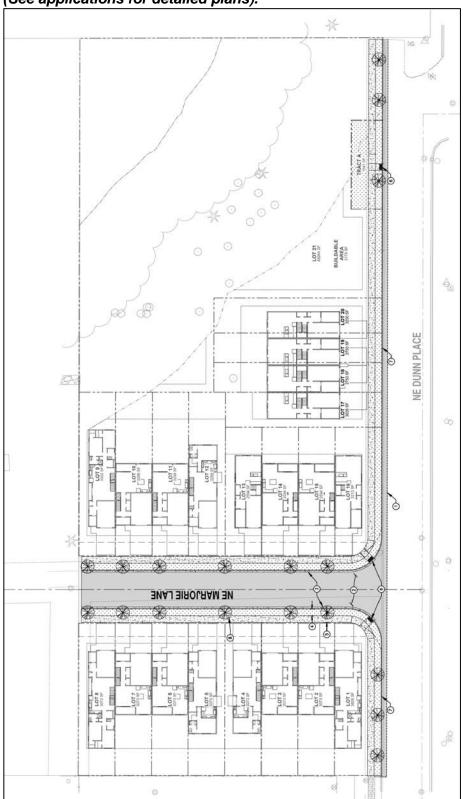


Figure 3a. Proposed Master Plan – Site Plan Summary (Original) (See applications for detailed plans).

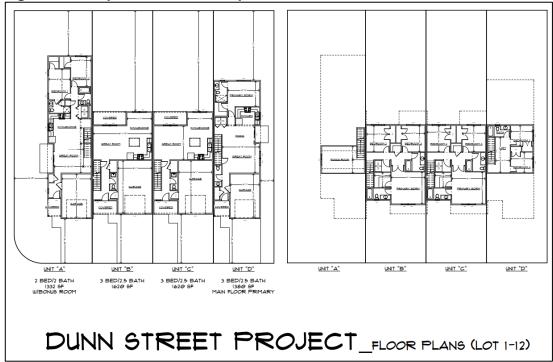
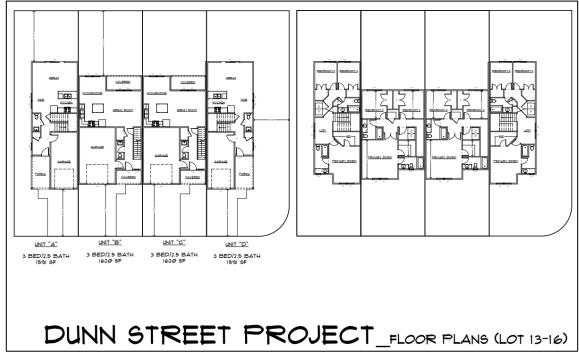


Figure 3b. Proposed Plan – Floorplans and Elevations, 1-12



Attachments: Attachment 1 – Applications and Attachments, 2 – December 7 Staff Memo, 3 – December 7 Submittal from Andrey Chernishov, 4 – December 7 Submittal from Joe Strunk, 5 – Geotechnical Report Addendum #1 from Strata Design







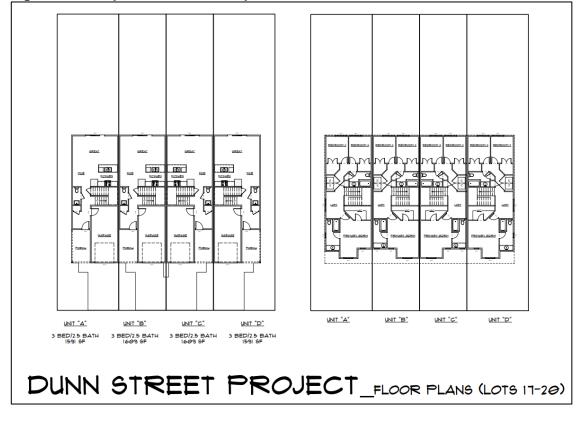
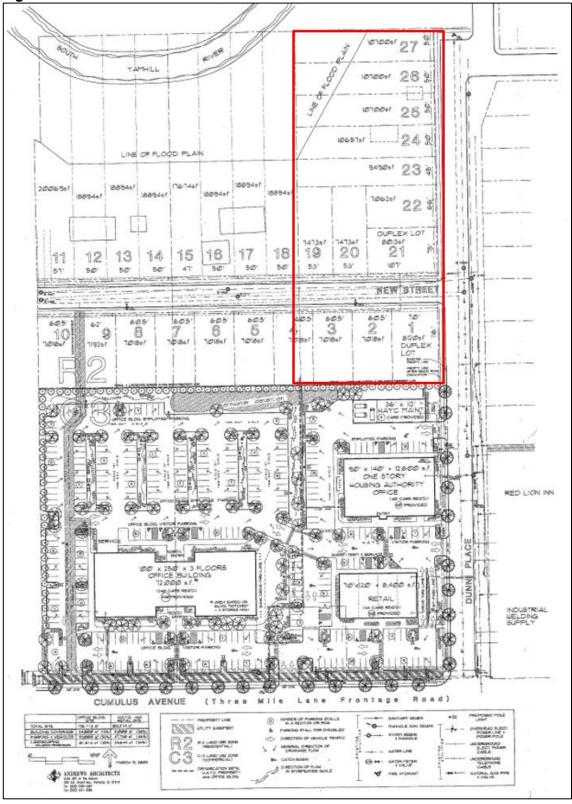


Figure 3d. Proposed Plan – Floorplans and Elevations, 17-20



Previous Master Plans –

Figure 4a. 2003



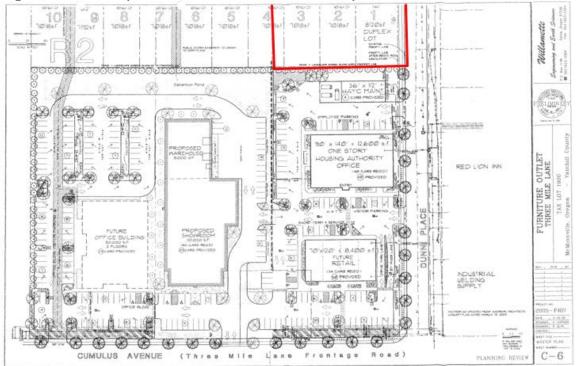
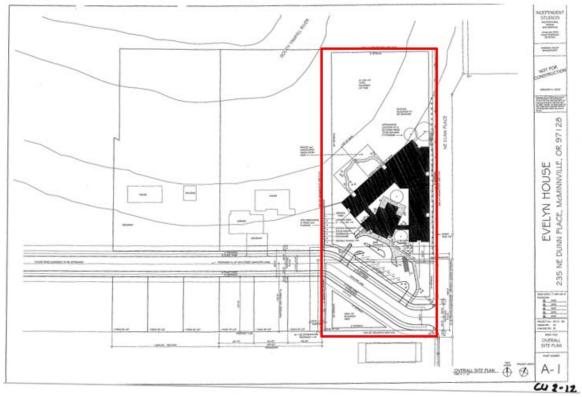


Figure 4b. 2005 - (Revision to Commercial Portion)

Figure 4c. 2012 – (Revision to TL 1700)



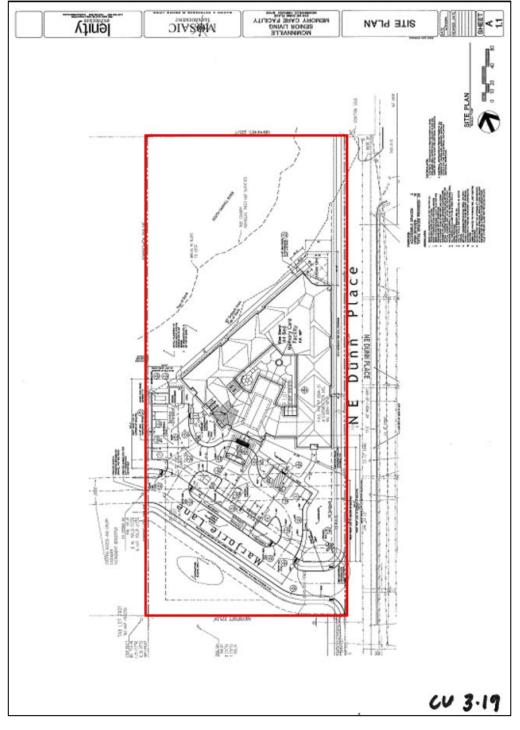


Figure 4d. 2019 – (TL 1700 - Consistent with 2012 Amendment)

Agency Comments

Notice of the proposal was sent to affected agencies and departments. Comments received from agencies are provided in Section IV of this Decision Document.

Public Comments

Written testimony is listed in Section IV and attached as received Oral testimony is summarized in the meeting minutes.

II. CONDITIONS:

The applications are **approved subject to the following conditions**:

PDA 1-23 Conditions of Approval

1. The Planned Development Amendment PDA 1-23 authorizes the amendment to the existing approved master plan for a memory care facility on Tax Lot 1700, to be replaced with the new master plan for the 21-lot lot subdivision and development of 20 townhouses and development of one additional residential lot, consistent with the plans as approved herein, upon approval of revisions by the City as addressed in these conditions of approval. The rest of the master plan remains in effect for other properties subject to the Planned Development overlay. The Master Plan shall be part of the Planned Development and Zone of the property and binding on the developer. A copy of the approved plans shall be placed on file with the Planning Department.

The developer will be responsible for requesting approval of the Planning Commission for any major change in the details of the adopted site plan. Minor changes to the details of the adopted plan may be approved by the Planning Director. It shall be the Planning Director's decision as to what constitutes a major or minor change. An appeal from a ruling by the Planning Director may be made only to the Planning Commission. Review of the Planning Director's decision by the Planning Commission may be initiated at the request of any one of the Commissioners.

- 2. The applicant shall demonstrate the proposal is consistent with OAR 660-046-0010(3)(a)(A)(iii), including DLCD's interpretation of the rule.
- 3. Comply with all applicable provisions of Ordinances 4719 and 4956.
- 4. The plan shall be consistent with the Geotechnical Report.
- 5. Final configuration of Tract A shall be consistent with the Common Open Space provisions and standards of 17.11.110(C)(3) and (4) relative to the buildable area of the property and consistent with the Three Mile Lane Area Plan Policies.
- 6. Provide details of the driveways and space for street tree planting locations. Flexibility to the driveway spacing standards in the Universal Design Standards of Chapter 17.11 of the Zoning Ordinance is authorized as part of the townhouse Planned Development approval.
- **7.** The property owner reserve to the City the option for a future easement for a trail along the riparian area at no cost to the City, in a form to be approved by the City Attorney.
- 8. Prior to subdivision final plat, submit a Street Tree Plan and a Landscape Plan for Tract A for review by the Landscape Review Committee. The landscape plan for Tract A shall be consistent

Attachments: Attachment 1 – Applications and Attachments, 2 – December 7 Staff Memo, 3 – December 7 Submittal from Andrey Chernishov, 4 – December 7 Submittal from Joe Strunk, 5 – Geotechnical Report Addendum #1 from Strata Design

with the provisions of 17,11.110(C)(3) and (4) relative to the buildable area of the property and consistent with the Three Mile Lane Area Plan Policies.

- 9. The plan shall incorporate the 60-foot setback shown in the plans.
- 10. The plans show a portion of the 60-foot setback encroaching into rear yards of lots 9, 10, and 20. The applicant shall revise the lots so they don't encroach into the 60-foot setback. Lot 9 shall be revised to a 2-story unit to provide a 20-foot usable rear yard area.
- 11. The tree retention plan included with the submittal shall be part of this approval. Only trees identified for removal shall be authorized to be removed.
- 12. The plans shall comply with the vision clearance standards of Chapter 17.54.
- 13. The applicant shall submit details of any proposed lighting to demonstrate the downcast/shielded nature of lighting such that it won't shine or cause glare facing streets or other properties. Any proposed lighting of Tract A shall be identified on the plans.
- 14. At the time of building permit review, the structures shall be reviewed for compliance with the residential design and development standards of Chapter 17.11 of the Zoning Ordinance, except where flexibility to specified standards is incorporated into this Planned Development approval.
- 15. No sign shall be installed without first applying for applicable sign permits, building permits, and electrical permits. Signs shall comply with all applicable provisions of MMC 17.62, Planned Development Ordinances 4719 and 4956, and the Zone 1 provisions of the Three Mile Lane Planned Development Ordinance 4131 as subsequently amended by Ordinance 4572 and subsequent ordinances.

S 1-23 Conditions of Approval

- 1. Approval of S 1-23 is contingent on approval of the proposed Planned Development Amendment/master plan amendment PDA 1-23.
- 2. The plan shall be consistent with the Geotechnical Report.
- 3. The proposed subdivision is located North of NE Cumulus Ave and connects into NE Dunn Place from the West. The preliminary plans indicate that the new subdivision will construct NE Marjorie Ln classified as a local residential with the required 50' wide right-of-way (ROW) that connects into NE Dunn Place. NE Marjorie Lane will be constructed to a local street standard per the TSP with a 28' wide street from curb to curb with a 5' wide planter strip and a 5' wide sidewalk 1' from the edge of ROW. There will be a 10' wide public utilities easement placed behind the edge of ROW on all sides of the street.
- 4. On-street parking will not be permitted within a 30-foot distance of street intersections measured from the terminus of the curb returns.
- 5. The City Public Works Department will install, at the applicant's expense, the necessary street signage (including stop signs, no parking signage, and street name signage), curb painting, and striping (including stop bars) associated with the development. The applicant shall reimburse the City for the signage and markings prior to the City's approval of the final plat.
- 6. The applicant shall submit cross sections for the public street system to be constructed. Cross sections shall depict utility location, street improvement elevation and grade, park strips,

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sidewalk location, and sidewalk elevation and grade. Said cross sections shall be submitted to the City Engineer for review and approval prior to construction permitting.

- 7. Street grades and profiles shall be designed and constructed to meet the adopted Land Division Ordinance standards and the requirements contained in the Public Right-of-Way Accessibility Guidelines (PROWAG). Additionally, curb ramps shall be constructed to meet PROWAG requirements. Crossings and receiving ramps are required at the intersection of NE Marjorie Lane and NE Dunn Place.
- 8. That the NE Marjorie Lane street improvements shall have the City's typical crowned section. Frontage improvements on NE Dunn Place will be consistent with existing shed street improvements and include a minimum asphalt depth of new asphalt of 6 inches along western edge of NE Dunn Place consistent with City trench patch requirements.
- 9. The applicant shall coordinate the location of clustered mailboxes with the Postmaster, and the location of any clustered mailboxes shall meet the accessibility requirements of PROWAG and the State of Oregon Structural Specialty Code.
- 10. A detailed, engineered sanitary sewage collection plan, which incorporates the requirements of the City's adopted Conveyance System Master Plan, must be submitted to and approved by the City Engineering Department. Any utility easements needed to comply with the approved sanitary sewage plan must be reflected on the final plat.
- 11. At the west terminus of NE Marjorie Lane the sanitary sewer system must provide for future development to the west. The proposed manhole must be located outside the asphalt or a stub out provided for future extension. The existing sewer service will need to be connected to the manhole as shown in the preliminary plans.
- 12. That a detailed, engineered storm drainage plan, which satisfies the requirements of the City's Storm Drainage Master Plan, and that demonstrates that the existing downstream storm drainage system has adequate capacity, must be submitted to and approved by the City Engineering Department. Any utility easements needed to comply with the approved plan must be reflected on the final plat.
- 13. No additional storm drainage runoff shall be conveyed onto any adjacent property without the appropriate public and/or private storm drainage easements. Copies of recorded private easements must be provided to the City prior to the City's approval of the final plat. Any offsite public easements must be reviewed to and accepted by the City prior to the City's approval of the final plat.
- 14. The existing private storm drainage will either need to be removed and replaced or be shown to be built to public standards. In addition, the existing private storm easement will need to be vacated within the City right-of-way.
- 15. If the proposed detention facility is to be placed within a Tract, that Tract and facility shall be private and be reflected as such on the final plat. The final plat shall also reflect that access to the detention facility will be granted to the City for maintenance of the structures. The placement of this facility shall not be within the 60' setback buffer without the approval of the City Engineer.
- 16. The final plat shall include use, ownership, and maintenance rights and responsibilities for all easements and tracts.

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- 17. The applicant shall secure all required state and federal permits, including, if applicable, those related to construction of the storm drain outfalls, the federal Endangered Species Act, Federal Emergency Management Act, and those required by the Oregon Division of State Lands, U.S. Army Corp of Engineers, and DEQ. Copies of the approved permits shall be submitted to the City prior to the City issuing permits.
- 18. That the applicant submit evidence that all fill placed in the areas where building sites are expected is engineered. Evidence shall meet with the approval of the City Building Division and the City Engineering Department.
- 19. That the required public improvements shall be installed to the satisfaction of the responsible agency prior to the City's approval of the final plat. Prior to the construction of the required public improvements, the applicant shall enter into a Construction Permit Agreement with the City Engineering Department, and pay the associated fees.
- 20. That the applicant shall submit a draft copy of the subdivision plat to the City Engineer for review and comment which shall include any necessary cross easements for access to serve all the proposed parcels, and cross easements for utilities which are not contained within the lot they are serving, including those for water, sanitary sewer, storm sewer, electric, natural gas, cable, and telephone. A current title report for the subject property shall be submitted with the draft plat. Two copies of the final subdivision plat mylars shall be submitted to the City Engineer for the appropriate City signatures. The signed plat mylars will be released to the applicant for delivery to McMinnville Water and Light and the County for appropriate signatures and for recording. The supplemental information specified in Section 17.53.075(B) of the Zoning Ordinance shall be submitted with the plat.
- 21. Applicant to submit water and electrical plans to McMinnville Water and Light for review and approval. Applicant to provide Engineering with approved water and electrical plans prior to issuance of any construction permits. Proposed utility crossings required for franchise utility service will be installed prior to pavement installation and need to be shown on final street improvement plans.
- 22. Street tree locations to be confirmed following utility and frontage improvement design. Location of utilities and street light shall be coordinated to maximize space available for street tree planting locations without utility and streetlight conflicts.
- 23. If applicable Green Stormwater Infrastructure landscaping and irrigation to be reviewed and approved by Engineering with the stormwater design review.
- 24. The applicant shall decommission any wells onsite in accordance with Oregon Water Resources Department Chapter 690 requirements.
- 25. That documents creating a Homeowner's Association for the subdivision and assigning to it maintenance responsibilities of any common ownership features must be submitted to and approved by the Community Development Director. In order to assure that the Homeowner's Association maintains and repairs any needed improvements, the Covenants, Conditions, and Restrictions (CC&Rs) shall explicitly require the Homeowner's Association to provide notice to the City prior to amending the CC&Rs, and that all such amendments shall be subject to approval by the Community Development Director. Additionally, the CC&Rs shall prohibit the Homeowner's Association from disbanding without the consent of the Community Development Director. The CC&Rs shall be reviewed by and subject to City approval prior to final plat approval.

- 26. The final plat shall include use, ownership, and maintenance rights and responsibilities for all easements and tracts.
- 27. That restrictive Covenants, Conditions, and Restrictions (CC&Rs) shall be prepared for the development and must meet with the approval of the Community Development Director prior to final plat approval.
- 28. Prior to issuance of permits for lots for lots 9 through 12 and 18 through 21, a site inspection must occur, as arranged by the permit applicant. This inspection is to confirm that the 60' building setback from the top of the Yamhill River bank has been adequately marked by a qualified engineer. If the location is already known, then a surveyor will need to locate that line. The contractor and building inspector are not qualified to determine the precise location of that setback. ORSC 105.9 & R403.1.9.4
- 29. The soils report has typical information about structural fill and compaction under slabs. Note that radon mitigation will be required for each dwelling and a compacted structural fill with fines will NOT satisfy the code minimum standard for radon control. ORSC AF103.2.
- 30. NOTE: A building code review was not performed as part of this referral. No obvious building code concerns are noted beyond the two listed above.
- 31. The Fire District will need verification that a fire hydrant is within 600ft of all the proposed structures within this new subdivision.
- 32. Water: Subdivision Design Application required including the per lot fee. Water design to be reviewed/approved by MW&L. Extension Agreement required for the public water system.
- 33. Power: Subdivision Design Application required including the per lot fee. Power design to be reviewed/approved by MW&L. Extension Agreement required for the public power system.
- 34. The applicant shall submit utility plans and construction agreements for review and approval of the respective standards. The applicant shall complete installation of utilities per approved plans prior to occupancy, or shall provide financial surety as may be authorized with deferred completion.
- 35. The applicant shall contact the appropriate utility-locate service (dial 811 or 800-332-2344) prior to any excavation to ensure that underground utilities are not damaged.
- 36. Prior to final plat, all Tract A landscaping and street trees shall be installed or security in place.
- 37. Within 12 (twelve) months after approval of the tentative plan, the subdivider shall prepare a final plat in conformance with the tentative plan as approved. The subdivider shall submit the original drawing and two exact copies and any supplementary information to the City Engineer. Approval of the tentative subdivision plan shall be valid for a one-year period from the effective date of approval. Upon written request, the Director may approve a one-year extension of the decision. Additional extensions shall require the subdivider to resubmit the tentative plan to the Planning Commission and make any revisions considered necessary to meet changed conditions.

TML 5-23 Conditions of Approval

1. Approval of the TML 1-23 design review is contingent on approval of the proposed Planned Development Amendment/master plan amendment PDA 1-23.

Attachments: Attachment 1 – Applications and Attachments, 2 – December 7 Staff Memo, 3 – December 7 Submittal from Andrey Chernishov, 4 – December 7 Submittal from Joe Strunk, 5 – Geotechnical Report Addendum #1 from Strata Design

Three Mile Lane Review.

- 3. At the time of submittal of any potential sign permit application, in addition to other applicable standards, the sign permit application shall be reviewed for compliance with the sign provisions for Zone 1 of the Three Mile Lane Planned Development Overlay Ordinance (Ordinance 4131 as amended by ordinance 4572 and other ordinances).
- 4. Because the plans become part of the Planned Development master plan, this approval doesn't expire unless the Master Plan undergoes a future major amendment, in which case a new concurrent Three Mile Lane Review would be required.

III. ATTACHMENTS: (on file with the Planning Department)

- 1. Applications and Attachments: PDA 1-23, S 1-23, TML 5-23
- 2. December 7, 2023 Memo from Staff with Attachments:
- Attachment 1. Written Public Testimony:
 - 1a. December 4, 2023 E-mail from Mike Full, with two attachments:
 - November 28, 2023 Letter from William Orr, Oregon Registered Professional Geologist
 - October 20, 2004 Letter from William Orr, Oregon Registered Professional Geologist
 - 1b. December 6, 2023 E-Mail from Nanette Pirisky
 - 1c. December 6, 2023 E-Mail #1 from Joe Strunk with Attachments
 4 photos
 - 1d. December 6, 2023 E-Mail #2 from Joe Strunk with Attachment
 December 6, 2023 Statement from Mike Full
 - 1e. December 6, 2023 E-Mail #3 from Joe Strunk with Attachment LIDAR Map Image
 - 1f. December 6, 2023 E-Mail from Dave and Barbara Tracy

Attachment 2. December 7, 2023 Memo from Jason Bock, PE, GRI Attachment 3. December 7, 2023 E-Mail from Oregon Department of State Lands

- 3. Additional Materials Submitted by Andrey Chernishov, December 7, 2023
- 4. Additional Materials Submitted by Joe Strunk, December 7, 2023
- 5. Geotechnical Report Addendum #1 from Strata Design, dated December 22, 2023

IV. COMMENTS:

Agency Comments

This matter was referred to the following public agencies for comment: McMinnville Fire District, Police Department, Engineering Department, Building Department, Parks Department, Public Works Department, Waste Water Services, City Manager, and City Attorney; McMinnville Water and Light; McMinnville School District No. 40; Yamhill County Planning Department; Frontier Communications; Comcast; Recology; Oregon Department of State Lands; and Northwest Natural Gas. The following comments were received:

• McMinnville Engineering Department

Here are our comments and suggested conditions of approval regarding the above listed application:

Page 22

TRANSPORTATION

- The proposed subdivision is located North of NE Cumulus Ave and connects into NE Dunn Place from the West. The preliminary plans indicate that the new subdivision will construct NE Marjorie Ln classified as a local residential with the required 50' wide rightof-way (ROW) that connects into NE Dunn Place.
- 2. NE Marjorie Lane will be constructed to a local street standard per the TSP with a 28' wide street from curb to curb with a 5' wide planter strip and a 5' wide sidewalk 1' from the edge of ROW. There will be a 10' wide public utilities easement placed behind the edge of ROW on all sides of the street.
- 3. On-street parking will not be permitted within a 30-foot distance of street intersections measured from the terminus of the curb returns.
- 4. The City Public Works Department will install, at the applicant's expense, the necessary street signage (including stop signs, no parking signage, and street name signage), curb painting, and striping (including stop bars) associated with the development. The applicant shall reimburse the City for the signage and markings prior to the City's approval of the final plat.
- 5. The applicant shall submit cross sections for the public street system to be constructed. Cross sections shall depict utility location, street improvement elevation and grade, park strips, sidewalk location, and sidewalk elevation and grade. Said cross sections shall be submitted to the City Engineer for review and approval prior to construction permitting.
- 6. Street grades and profiles shall be designed and constructed to meet the adopted Land Division Ordinance standards and the requirements contained in the Public Right-of-Way Accessibility Guidelines (PROWAG). Additionally, curb ramps shall be constructed to meet PROWAG requirements. Crossings and receiving ramps are required at the intersection of NE Marjorie Lane and NE Dunn Place.
- 7. That the NE Marjorie Lane street improvements shall have the City's typical crowned section. Frontage improvements on NE Dunn Place will be consistent with existing shed street improvements and include a minimum asphalt depth of new asphalt of 6inches along western edge of NE Dunn Place consistent with City trench patch requirements.
- 8. The applicant shall coordinate the location of clustered mailboxes with the Postmaster, and the location of any clustered mailboxes shall meet the accessibility requirements of PROWAG and the State of Oregon Structural Specialty Code.

SANITARY SEWER

Suggested conditions of approval related to sanitary sewer service include:

- 1. A detailed, engineered sanitary sewage collection plan, which incorporates the requirements of the City's adopted Conveyance System Master Plan, must be submitted to and approved by the City Engineering Department. Any utility easements needed to comply with the approved sanitary sewage plan must be reflected on the final plat.
- 2. At the west terminus of NE Marjorie Lane the sanitary sewer system must provide for future development to the west. The proposed manhole must be located outside the asphalt or a stub out provided for future extension. The existing sewer service will need to be connected to the manhole as shown in the preliminary plans.

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STORM DRAINAGE

Suggested conditions of approval related to storm drainage include:

- 1. That a detailed, engineered storm drainage plan, which satisfies the requirements of the City's Storm Drainage Master Plan, and that demonstrates that the existing downstream storm drainage system has adequate capacity, must be submitted to and approved by the City Engineering Department. Any utility easements needed to comply with the approved plan must be reflected on the final plat.
- 2. No additional storm drainage runoff shall be conveyed onto any adjacent property without the appropriate public and/or private storm drainage easements. Copies of recorded private easements must be provided to the City prior to the City's approval of the final plat. Any offsite public easements must be reviewed to and accepted by the City prior to the City's approval of the final plat.
- 3. The existing private storm drainage will either need to be removed and replaced or be shown to be built to public standards. In addition, the existing private storm easement will need to be vacated within the City right-of-way.
- 4. If the proposed detention facility is to be placed within a Tract, that Tract and facility shall be private and be reflected as such on the final plat. The final plat shall also reflect that access to the detention facility will be granted to the City for maintenance of the structures. The placement of this facility shall not be within the 60' setback buffer without the approval of the City Engineer.

MISCELLANEOUS

Additional suggested conditions of approval include:

- 1. The final plat shall include use, ownership, and maintenance rights and responsibilities for all easements and tracts.
- 2. The applicant shall secure all required state and federal permits, including, if applicable, those related to construction of the storm drain outfalls, the federal Endangered Species Act, Federal Emergency Management Act, and those required by the Oregon Division of State Lands, U.S. Army Corp of Engineers, and DEQ. Copies of the approved permits shall be submitted to the City prior to the City issuing permits.
- 3. That the applicant submit evidence that all fill placed in the areas where building sites are expected is engineered. Evidence shall meet with the approval of the City Building Division and the City Engineering Department.
- 4. That the required public improvements shall be installed to the satisfaction of the responsible agency prior to the City's approval of the final plat. Prior to the construction of the required public improvements, the applicant shall enter into a Construction Permit Agreement with the City Engineering Department, and pay the associated fees.
- 5. That the applicant shall submit a draft copy of the subdivision plat to the City Engineer for review and comment which shall include any necessary cross easements for access to serve all the proposed parcels, and cross easements for utilities which are not contained within the lot they are serving, including those for water, sanitary sewer, storm sewer, electric, natural gas, cable, and telephone. A current title report for the subject property shall be submitted with the draft plat. Two copies of the final subdivision plat

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mylars shall be submitted to the City Engineer for the appropriate City signatures. The signed plat mylars will be released to the applicant for delivery to McMinnville Water and Light and the County for appropriate signatures and for recording.

- 6. Applicant to submit water and electrical plans to McMinnville Water and Light for review and approval. Applicant to provide Engineering with approved water and electrical plans prior to issuance of any construction permits. Proposed utility crossings required for franchise utility service will be installed prior to pavement installation and need to be shown on final street improvement plans.
- 7. Street tree locations to be confirmed following utility and frontage improvement design.
- 8. If applicable Green Stormwater Infrastructure landscaping and irrigation to be reviewed and approved by Engineering with the stormwater design review.
- 9. The applicant shall decommission any wells onsite in accordance with Oregon Water Resources Department Chapter 690 requirements.
- 10. That documents creating a Homeowner's Association for the subdivision and assigning to it maintenance responsibilities of any common ownership features must be submitted to and approved by the Community Development Director. In order to assure that the Homeowner's Association maintains and repairs any needed improvements, the Covenants, Conditions, and Restrictions (CC&Rs) shall explicitly require the Homeowner's Association to provide notice to the City prior to amending the CC&Rs, and that all such amendments shall be subject to approval by the Community Development Director. Additionally, the CC&Rs shall prohibit the Homeowner's Association from disbanding without the consent of the Community Development Director. The CC&Rs shall be reviewed by and subject to City approval prior to final plat approval.
- 11. The final plat shall include use, ownership, and maintenance rights and responsibilities for all easements and tracts.
- 12. That restrictive Covenants, Conditions, and Restrictions (CC&Rs) shall be prepared for the development that are consistent with those in place for existing adjacent single family developments and must meet with the approval of the Community Development Director prior to final plat approval.

<u>McMinnville Building Department</u>

- Prior to issuance of permits for lots for lots 9 through 12 and 18 through 21, a site inspection must occur, as arranged by the permit applicant. This inspection is to confirm that the 60' building setback from the top of the Yamhill River bank has been adequately marked by a qualified engineer. If the location is already known, then a surveyor will need to locate that line. The contractor and building inspector are not qualified to determine the precise location of that setback. ORSC 105.9 & R403.1.9.4
- The soils report has typical information about structural fill and compaction under slabs. Note that radon mitigation will be required for each dwelling and a compacted structural fill with fines will NOT satisfy the code minimum standard for radon control. ORSC AF103.2.
- A building code review was not performed as part of this referral. No obvious building code concerns are noted beyond the two listed above.

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• McMinnville Fire District

The Fire District will need verification that a fire hydrant is within 600ft of all the proposed structures within this new subdivision.

• McMinnville Water & Light

McMinnville Water & Light has the following comments:

- Water: Subdivision Design Application required including the per lot fee. Water design to be reviewed/approved by MW&L. Extension Agreement required for the public water system.
- Power: Subdivision Design Application required including the per lot fee. Power design to be reviewed/approved by MW&L. Extension Agreement required for the public power system.

<u>Comcast</u>

Comcast has no comments.

• <u>GRI</u>

GRI provided a review of the Geotechnical Report on behalf of the City. See attachment 2 to December 7, 2023 memo from staff.

Public Comments

Written Public Testimony:

- December 4, 2023 E-mail from Mike Full, with two attachments:
 - November 28, 2023 Letter from William Orr, Oregon Registered Professional Geologist
 - October 20, 2004 Letter from William Orr, Oregon Registered Professional Geologist
- December 6, 2023 E-Mail from Nanette Pirisky
- December 6, 2023 E-Mail #1 from Joe Strunk with Attachments

 4 photos
- December 6, 2023 E-Mail #2 from Joe Strunk with Attachment
 - December 6, 2023 Statement from Mike Full
- December 6, 2023 E-Mail #3 from Joe Strunk with Attachment
 - o LIDAR Map Image
- December 6, 2023 E-Mail from Dave and Barbara Tracy
- December 7, 2023 Memo from Jason Bock, PE, GRI (on behalf of the City)
- December 7, 2023 E-Mail from Oregon Department of State Lands
- December 7, 2023 Submittal from Andrey Chernishov
- December 7, 2023 Submittal from Joe Strunk
- Geotechnical Report-Addendum #1 from Strata Design, dated December 22, 2023, submitted by Andrey Chernishov

Oral Public Testimony: Oral Testimony is Summarized in the Meeting Minutes:

- o Applicants/Owners: Andrey Chernishov, Jason Flores, Peter Glennie
- o Joseph M. Strunk, representing Mike Full
- o Mike Full
- o George Siegfried

- 1. The applicant submitted the applications with payment for PDA 1-23 and S 1-23 on March 16, 2023, including documentation of the neighborhood meeting held on November 23, 2022.
- 2. The applications were deemed incomplete on April 14, 2023.
- 3. PDA 1-23 and S 1-23 were resubmitted with additional information, and TML 5-23 was submitted, on September 11, 2023.
- 4. The applications were deemed complete on the date of submittal of the additional information, on September 11, 2023.
- 5. On November 2, 2023, notice of the applications was referred to the following public agencies for comment in accordance with Section 17.72.120 of the Zoning Ordinance: McMinnville Fire District, Police Department, Engineering Department, Building Department, Parks Department, Public Works Department, Waste Water Services, City Manager, and City Attorney; McMinnville Water and Light; McMinnville School District No. 40; Yamhill County Planning Department; Frontier Communications; Comcast; Recology; Oregon Department of State Lands; and Northwest Natural Gas.

Comments received from agencies are addressed in Section IV of this Decision Document.

- 6. On November 9, 2023, notice of the applications and the December 7, 2023 Planning Commission public hearing was mailed to property owners within 300 feet of the subject property in accordance with Section 17.72.120 of the Zoning Ordinance.
- 7. Notice of the applications and the December 7, 2023 Planning Commission public hearing was published in the News Register on Friday, December 1, 2023, in accordance with Section 17.72.120 of the Zoning Ordinance.
- 8. The applicant granted a 60-day extension to the 120-day processing timeline. The date for the final local decision, with the extension, is March 9, 2024.
- 9. On December 7, 2023, the Planning Commission held a duly noticed public hearing to consider the applications. The hearing was continued to January 4, 2024.
- 10. On January 4, 2024, the Planning Commission held the continued public hearing to consider the applications.

VI. FINDINGS OF FACT - GENERAL FINDINGS

- 1. Location:
 - a. Address: 235 NE Dunn Place
 - b. Map & Tax Lot: R4422CD 01700
- 2. **Size:** Approximately 2.83 acres
- 3. Comprehensive Plan Map Designation: Commercial, Floodplain
- 4. **Zoning:** R-4 PD (Planned Development Ordinances 4719 and 4956)

5. **Overlay Zones/Special Districts/Area Plans:**

- a. Three Mile Lane Planned Development Overlay
- b. Airport Overlay Zone
- c. Three Mile Lane Area Plan
- 6. Current Use: Undeveloped, structures have been demolished

7. Inventoried Significant Resources:

- a. Historic Resources: None identified
- b. **Other:** None identified

8. Other Features:

a. **Slopes and Natural Features:** The majority of the site is generally level. The northwest corner of the parcel is within the floodplain and contains a portion of the Yamhill River and riverbank, sloping steeply down to the river. That portion of the site is substantially covered with trees.

There has been slope instability along the riverbank of properties in this area. The applicant has submitted a geotechnical report, which includes a recommendation for a 60' setback from top of bank, which is shown on the applicant's plans,

- b. **Easements:** There is an existing 12' wide public utility easement and sidewalk easement along the Dunn Place frontage. (Instrument #2004-16131 and Partition Plat 2004-33) and a 30' wide access and utility easement corresponding to the location of the existing driveways (Instrument #2002-01501)
- c. A neighboring property owner contacted staff and provided oral comments regarding history of properties in the area, and it is expected he will provide additional testimony. The communications with staff indicated history of slope instability on properties along the river in this vicinity, the changing alignment of the river, the prior history of landfilling in this vicinity, and locations of springs.
- 9. **Utilities:** Utilities are available to the property, and extensions will be necessary in conjunction with the proposed development.
- 10. **Transportation:** The subject property has frontage on NE Dunn Place. A new east-west street (NE Marjorie Lane) is proposed, connecting to NE Dunn Place. Dunn Place is functionally classified as a Local Street in the Transportation Systems Plan.

VII. CONCLUSIONARY FINDINGS:

The Conclusionary Findings are the findings regarding consistency with the applicable criteria and standards for the application.

<u>McMinnville Zoning Ordinance</u>

The following Sections of Title 17, Zoning Ordinance, of the McMinnville Municipal Code provide criteria and standards applicable to the requests:

Planned Development Amendment PDA 1-23 - Criteria

The applicable criteria for a Planned Development Amendment are specified in Section 17.74.070 of the Zoning Ordinance.

<u>17.74.070</u> Planned Development Amendment - Review Criteria. An amendment to an existing planned development may be either major or minor. Minor changes to an adopted site plan may be approved by the Planning Director. Major changes to an adopted site plan shall be processed in accordance with Section 17.72.120, and include the following:

- An increase in the amount of land within the subject site;
- An increase in density including the number of housing units;
- A reduction in the amount of open space; or
- Changes to the vehicular system which results in a significant change to the location of streets, shared driveways, parking areas and access.

An amendment to an existing planned development may be authorized, provided that the proposal satisfies all relevant requirements of this ordinance, and also provided that the applicant demonstrates the following:

FINDING: SATISFIED WITH CONDITIONS. This is a major amendment to the existing Planned Development. It is being processed per Section 17.72.120 and consistent with the provisions of the Planned Development Ordinances 4719 and 4956 which apply to the property. As addressed under the respective relevant provisions of the Zoning Ordinance below, findings have been made that, with conditions, the application satisfies all relevant provisions of this ordinance and the provisions of 17.74.070(A)-(F) below. *Note:* The criteria for a Planned Development Amendment in 17.74.070(A)-(F) are the same as the provisions of Section 17.51.030(C)(1)-(7).

A. There are special physical conditions or objectives of a development which the proposal will satisfy to warrant a departure from the standard regulation requirements;

APPLICANT'S RESPONSE: The applicant seeks to amend the overlay on the parcel to meet the market need of single-family dwelling units in the form of townhomes and meet City goals of increased density in the R-4 zone. The intended use of the subdivision is a 20-lot assortment of varying size single-family, common-wall, townhomes and one single-family home lot.

The proposed PD Amendment proposes the following physical conditions that depart from standard regulation requirements to market increased density pursuant to city goals of the R-4 zone:

1. Reduce the minimum lot size from 5,000 SF to 2,500 SF for common wall, single-family lots. The approved minimum lot size for the PD is currently 5,000 SF. The applicant is proposing to reduce the approved lot size to 2,500 SF. The minimum lot size will be 2,594 SF and the maximum lot size will be 48,944 SF. The large lot is limited to 3,179 SF of buildable area due to the established sixty feet slope setback from the top bank of the South Yamhill River. The proposed lot area for this project does not meet the original PD approval. However, the R-4 zone permits common wall single family dwelling structures provided the lot area exceeds 2,500 square feet. The proposed lots exceed this threshold and meet the intent of the code regarding density.

2. Exceed lot depth to width ratio from 2:1 up to a maximum of 5.7:1. The City of McMinnville requires lots to not exceed a two times depth to width ratio or 2:1. Lots 18 and 19 would have a depth to width ratio of 5.68 and lots 9-12 would have a depth to width ratio of 4.48. All other lots would have a smaller ratio, but still exceed the 2:1, except for lot 21. The applicant has

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proposed a layout that exceeds this ratio to provide higher density housing consistent with the goals of City of McMinnville and the needs of the area.

FINDING, SUBSECTION (A): SATISFIED WITH CONDITIONS. The subject properties are subject to a previously approved Planned Development Master Plan for an assisted living facility, so a planned development amendment is necessary to replace that master plan with an amended master plan for the proposed subdivision and townhouse development.

In addition, the applicable Planned Development Ordinances 4719 and 4956 contain some provisions which are more restrictive than the standard regulation requirements of the R-4 zone.

The predominant purpose for the Planned Development Amendment is for the new master plan. In nearly all respects, the proposed development is otherwise consistent with the provisions of the R-4 zone, the overlay ordinances, the subdivision standards, the townhouse residential standards, and other applicable general provisions of the Zoning Ordinance. The following items are noted relative to the applicant's response above:

- The R-4 zone (12.21.030) and Townhouse residential standards (17.11) allow lots for townhouses to be smaller than other lots, and may average 1,500 sq per lot.
- While the townhouse standards specify minimum lot width, depth, and size, the land division chapter states that, "the depth of the lot shall not ordinarily exceed two times the average width." Due to the common walls, townhouse lots typically have a narrower/deeper shape than other lots.

In addition, it is not feasible to achieve the driveway spacing standards of Chapter 17.11 for the proposed townhouse lots, and flexibility is therefore reasonable as part of the planned development.

B. Resulting development will not be inconsistent with the Comprehensive Plan objectives of the area;

APPLICANT'S RESPONSE: [STAFF NOTE: The applicant's responses to this criterion are moved to the section of these Findings which address the Comprehensive Plan Goals and Policies].

FINDING: SATISFIED WITH CONDITIONS. See Findings regarding consistency with the Comprehensive Plan in that section of this document.

C. The development shall be designed so as to provide for adequate access to and efficient provision of services to adjoining parcels;

APPLICANT'S RESPONSE: See Applicant Responses to Policies 68.00, 77.00, 78.00, 81.00, 82.00, 117.00, 118.00, 122.00, and 132.00 of Criteria 17.74.040.B.

FINDING: SATISFIED WITH CONDITIONS. Properties to the north, east, and south are already developed. The original Planned Development master plan provided for continuation of an east-west street to the property to the west, with lots abutting the street extension on both sides. The proposed master plan amendment for Tax Lot 1701 would continue to provide a street alignment terminating where the street and utilities can be

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continued to the west consistent with the original master plan approval which still applies to the R-2 zoned properties to the west.

D. The plan can be completed within a reasonable period of time;

APPLICANT'S RESPONSE: The development in scale is not relatively large or complex, consisting of street improvements and the creation of approximately 225 linear feet of new city street. All utilities required to serve the development are located along the development's frontage. The development is not estimated to take longer than six months to construct.

FINDING: SATISFIED. The applicant's response demonstrates completion within a reasonable period of time.

E. The streets are adequate to support the anticipated traffic, and the development will not overload the streets outside the planned area;

APPLICANT'S RESPONSE: Based on ITE code 230 (Residential Condominium/Townhouse) from ITE's 7th Edition Trip Generation Manual at a rate of 0.52 trip ends per dwelling unit, there will be an estimated 10.4 PM peak hour trips added. This new traffic will likely take NE Dunn Place south and disburse east/west on NE Cumulus Ave. NE Cumulus Ave is a minor collector which is intended to receive higher volumes of traffic based on the City's Transportation Plan.

FINDING: SATISFIED WITH CONDITIONS. The proposed master plan for the 20 townhouse lots and one additional lot would replace the currently approved master plan for a 44-bed memory care facility on this property. A Traffic Impact Analysis isn't required for a development that generates fewer than 20 peak hour trips or 200 average daily trips. The proposed development would generate fewer trips than this threshold. The net difference between the existing master plan and proposed master plan would also be further below this threshold.

The proposed master plan continues to provide east-west connectivity. The proposed alignment is consistent with the east-west alignment in the original master plan and aligns on the west side per prior master plans. On the east side, it is substantially the same as the original master plan, but on the east side, it is a different alignment than the current master plan for the property which connects to Dunn Place further south.

The applicant is proposing frontage improvements on Dunn Place and construction of street improvements for the new street. This criterion is met subject to conditions of approval related to the requirements for these improvements.

F. Proposed utility and drainage facilities are adequate for the population densities and type of development proposed;

APPLICANT'S RESPONSE: Please refer to the Composite Utility Plan for more information.

See Applicant Responses to Policies 99.00, 136.00, 139.00 and 142.00 of Criteria 17.74.040.B.

There is an existing 6-inch cast iron water line located in NE Dunn Place. This will serve new properties fronting on NE Dunn Place. That 6" cast iron will be tied with a 6" tee that

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will extend a new 6-inch C900 PVC water main down the new NE Marjorie Lane to serve properties fronting the new road.

There is an existing 8" sanitary main behind the eastern curb & gutter on NE Dunn Place. This will serve new properties fronting on NE Dunn Place. There is an existing 8" sanitary main traversing the property from the west to the east that serves homes west of the subject property. This 8" sanitary main ties into a manhole in NE Dunn Place. This line will be abandoned and replaced with a new 8" D3034 sanitary main to serve new properties fronting the new NE Marjorie Lane. The existing 8" sanitary main remaining that serves the homes to the west will be tied into the new system via a cleanout at the western property line that extends to a new manhole at the west end of NE Marjorie Lane.

There is an existing 12" concrete storm main on NE Dunn Place. An underground storm detention system with upstream pollution control and downstream flow control manholes will be installed to detain runoff stormwater from the development and release the runoff at predeveloped or lower flow rates for the 10-year storm.

Power, natural gas, and communications all exist on NE Dunn Place and can be extended to serve the site.

FINDING: SATISFIED WITH CONDITIONS. Affected agencies and departments have reviewed the proposed development plans. Subject to conditions of approval, including requirements for provision of utilities and requirement addressing drainage, the development will have adequate utility and drainage facilities.

G. The noise, air, and water pollutants caused by the development do not have an adverse effect upon surrounding areas, public utilities, or the city as a whole.

APPLICANT'S RESPONSE: Construction will adhere to City of McMinnville municipal code 8.10.260 for noise control. The development is large enough to be subject to DEQ 1200C regulations. Construction will be permitted and comply with local and DEQ erosion and sedimentation control standards to prevent the development from causing any significant adverse impact to the surrounding air and water quality in the vicinity, existing public utilities, or the city.

FINDING: SATISFIED. There are no aspects of this subdivision and townhouse development as a Planned Development that are substantively different than would otherwise occur if the site was developed without a Planned Development overlay as a permitted use in the underlying R-4 zone for this property. There are no unique noise, air, or water pollutants associated with this residential development.

Planned Development Overlay Ordinances 4719 and 4956:

Ordinance 4719:

That the property described in Exhibit "A", which is attached hereto and incorporated herein by this reference, is hereby rezoned from a County EF-40 zone and City AH zone to a C-3 PD (on the southern 6.7 acres of the site) and R-2 PD zone (on the northern 7.6 acres of the site) subject to the following conditions:

1. That the zone change requests shall not take effect until and unless CPA 12-99 and CPA 13-99 are approved by the City Council.

FINDING: SATISFIED/NOT APPLICABLE. This provision previously went into effect as a result of those approvals having occurred. In addition, the zoning was subsequently changed to R-4 PD by Ordinance 4956. (See below).

2. That development and use of the site is subject to the provisions of the Three Mile Lane Planned Development Ordinance, as amended. Further, that a detailed Master Plan for the subject site shall be submitted to the McMinnville Planning Commission for review and approval, pursuant to the procedures of McMinnville Zoning Ordinance 17.51, Planned Development Overlay, prior to any development occurring on the commercial area of the site. The plan shall include, at a minimum, proposed land uses and their location(s), building locations, traffic circulation patterns and commercial drive locations, grading and drainage information, location and size of public utilities and services, oft-street parking areas, direct pedestrian access, and other information deemed necessary to convey the details of the proposed development plans to the Planning Commission.

FINDING: SATISFIED WITH CONDITIONS. The master plan for the larger area encompassed in this planned development was subsequently approved. A portion of the master plan was subsequently amended by Ordinance 4956, adopting the Evelyn House master plan for the northly portion of the property. The current application would amend the northerly portion of the master plan consistent with the Planned Development Amendment criteria in Chapter 17.74 of the Zoning Ordinance (which are the same criteria as provided in Chapter 17.51). Consistency with the provisions of the Three Mile Lane Planned Development Ordinance, as amended, is addressed through the concurrent application TML 5-23 for Three Mile Lane review.

That detailed plans for the proposed commercial development showing site layout, signage. З. building elevations, landscaping, parking, and lighting must be submitted to and approved by the Three Mile Lane Design Review Committee prior to the issuance of any building permits for said development. Approval or denial of such plans shall be based on findings that, to the extent possible, the building and site design employs principles that will ensure compatibility with adjacent development, and provide an architectural style appropriate to a "gateway" or entrance to the City of McMinnville. In addition, approval or denial of the exterior building design shall be based on a finding that, to the extent possible, the building design incorporates design and architectural features that would serve to break up the building's horizontal plane and provide visual interest. This may include, but is not limited to, the use of vertical columns, gables, variety of compatible and complimentary building materials, providing openings in the building facade, and landscaping at the building perimeter. Submitted plans should include detail as regard building colors and materials (provide texture and visual relief), building height, planting design, window treatment, vertical and horizontal articulation, massing, voids to solids relationships, and other elements appropriate to ensure that the building and site design complies with the objectives and requirements of this planned development approval.

The provisions of Chapter 17.51 of the McMinnville Zoning Ordinance may be used to place conditions on any development and to determine whether or not specific uses are permissible. The applicant may appeal the decision of the Three Mile Lane Design Review Committee to the Planning Commission if notice of intent to appeal is filed in the Planning Department office within fifteen (15) days of the Committee's decision.

FINDING: NOT APPLICABLE. This condition relates to the commercial portion of the southerly portion of the property within the Planned Development Overlay as designated by Ordinance 4719.

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4. That final development plans for the commercial area include landscape plans to be submitted to and approved by the McMinnville Landscape Review Committee and Three Mile Lane Design Review Committee. A minimum of 14 percent of the site must be landscaped. A solid wood fence, arborvitae hedge, or some similar type of planted visual screen shall be required along the commercial site's western property line as applicable to screen the existing single-family residence. Such landscaping screening shall also exist along the proposed commercial area's northern property line, and landscaping emphasis shall exist along the site's eastern and southern property lines, adjacent to NE Dunn Place, and the Three Mile Lane frontage road, with particular emphasis at the intersection(s) of any future commercial driveways. These streets, and any future street(s) shall be planted with required street trees. In addition, landscape islands are required to be located throughout proposed off-street parking areas.

Street trees within a curbside planting strip along street frontages are required to have a twoinch minimum caliper, exhibit size and growing characteristics appropriate for the particular planting strip, and be spaced as appropriate for the selected species and as may be required for the location of above ground utility vaults, transformers, light poles, and hydrants. All street trees shall be of good quality and shall conform to American Standard for Nursery Stock (ANSI Z60.1). The Planning Director reserves the right to reject any plant material which does not meet this standard.

FINDING: NOT APPLICABLE. This condition relates to the commercial portion of the southerly portion of the property within the Planned Development Overlay as designated by Ordinance 4719. *Note:* The applicant will still need to submit a street tree plan for review and approval by the Landscape Review Committee.

5. That prior to development of the site the applicant shall submit a detailed utility plan for review and approval by the City Engineer, McMinnville Water & Light, and other agencies as appropriate. At a minimum, plans for the provision of storm drainage, sanitary sewer service, and public water shall be detailed within the submitted plan.

FINDING: SATISFIED WITH CONDITIONS. The applicant has submitted a utility plan. As a condition of approval, the applicant will need to provide final civil plans addressing the conditions of approval and any associated documents.

6. That no building shall exceed the height of 35 feet.

FINDING: SATISFIED. The proposed townhouses do not exceed 35 feet in height. The elevation drawings show maximum height of different buildings to be 28'-0"and 29'-4".

7. That if outside lighting is to be provided, it must be directed down and away from residential areas and public streets.

FINDING: SATISFIED WITH CONDITIONS. Proposed lighting will include streetlights and lighting of individual homes. Street lighting will be per City specifications. Other lighting shall comply with this requirement as a condition of approval.

8. That signs located on the site shall be subject to the requirements of McMinnville Ordinance No. 4572 (A).

FINDING: SATISFIED WITH CONDITIONS. Ordinance 4572 is an amendment to the original Three Mile Lane Overlay Zone, Ordinance 4131. The subject property is within the "Zone 1" area for sign regulations, which is what is referenced by Subsection (A) above. No signage is

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proposed at this time. If any signage is proposed, at the time of sign permit application, it will be reviewed for consistency with all applicable sign regulations including the Zone 1 sign standards in Subsection (A) of Ordinance 4572. This is included as a condition of approval.

9. That all business, storage, or displays shall be conducted wholly within an enclosed building; except for off-street parking and loading.

FINDING: SATISFIED WITH CONDITIONS No business use is proposed. Any business uses that might occur as home occupations shall comply with this requirement and all applicable home occupation standards.

10. That drive-up restaurants; automobile, boat, trailer, or truck rental sales or service; building materials supply stores; recreational vehicle parks; storage garage or mini-warehouse buildings; gasoline stations; and, automobile service stations are prohibited from locating on the subject site.

FINDING: SATISFIED/NOT APPLICABLE. This condition applies to the commercial portion of the Planned Development and isn't applicable to this residential property. These uses are not proposed as part of the residential townhouse development.

11. That if restrictive covenants are proposed for the development they must meet with the approval of the Planning Director.

FINDING: SATISFIED WITH CONDITIONS. If any restrictive covenants are proposed, the applicant shall submit them for review and approval by the Planning Director as a condition of approval.

12. That an approved Master Plan for the commercial area, as approved by the Planning Commission, shall be placed on file with the Planning Department and become a part of the zone and binding on the owner and developer. The developer will be responsible for requesting permission of the Planning Commission for any major change of the details of the final development plans. Minor changes to the details of the adopted plan may be approved by the City Planning Director. It shall be the Planning Director's decision as to what constitutes a major or minor change. An appeal from a ruling by him may be made only to the Commission. Review of the Planning Director's decision by the Planning Commission may be initiated at the request of any one of the commissioners.

FINDING: SATISFIED/NOT APPLICABLE. This condition addresses the southerly, commercial portion of the property that is within the Planned Development Overlay, and isn't applicable to the subject property.

13. That required right-of-way dedication and improvements to the NE Dunn Place road frontage, and required improvements to the Three Mile Lane frontage road (as may be required by the City Engineer), shall be done at the developer's expense and be finalized prior to release of any occupancy permits. Prior to the division of any lands within the subject site, plans for the improvement of any and all streets shall be submitted to the City Engineer for review and approval prior to their construction.

FINDING: SATISFIED WITH CONDITIONS. For the subject property, right-of-way dedication, dedication of public utility easements and public improvements to NE Dunn Place and the new public street will need to be completed prior to final plat and prior to occupancy, except for completion of items which are authorized to be secured prior to final plat with a completion timeline.

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Ordinance 4956:

Section 2. That the property described in Exhibit "A," is hereby rezoned from a City R-2 PD (Single-Family Residential, Planned Development) zone to a City R4 PD (Multi-Family Residential. Planned Development) zone, subject to the following conditions.

1. That all applicable requirements of McMinnville Planned Development Ordinance No. 4719 shall remain in effect.

FINDING: SATISFIED WITH CONDITIONS. This ordinance amended Ordinance 4719, changing the zoning from R-2 PD to R-4 PD, which continues to apply. All other requirements of Ordinance 4719 continue to apply, except as provided in Subsection 2 below, where the Evelyn House master plan became part of the approved master plan for the property, which currently applies to the subject property.

2. That the Evelyn House master plan, submitted as part of this application, shall be placed on file with the Planning Department and become a part of the zone, and binding on the owner and developer That the developer shall be responsible for requesting approval of the Planning Commission for any major change of the details of the adopted plan. Minor changes to the details of the adopted plan may be approved by the Planning Director. It shall be the Planning Director's decision as to what constitutes a major or minor change. An appeal from a ruling by the Planning Director may be made only to the Commission. Review of the Planning Director's decision by the Planning Commission may be initiated at the request of any one of the Commissioners.

FINDING: SATISFIED WITH CONDITIONS. In combination, the result of Ordinances 4719 and 4956 is that the property is now zoned R-4 PD, subject to the provisions of Ordinance 4719. The master plan approved as part of Ordinance 4719 that encompassed a larger area remains in effect, except for that portion amended by Ordinance 4956 applicable to the subject property, replacing that portion of the master plan for tax lot 1700 that was originally identified as residential lots with the Evelyn House master plan.

As specified in Condition #2 of Ordinance 4956, major changes to the master plan must be approved by the Planning Commission. Per Condition #2, with the current application for PDA 1-23, the applicant is requesting a major amendment to the Planned Development to amend the portion of the master plan for tax lot 1700 from the Evelyn House plan to the proposed 21-lot subdivision and townhouse development.

Subdivision Tentative Plan (S 1-23)

MMC Chapter 17.53. Land Division Standards, Subdivision (17.53.070-079)

17.53.070. Submission of Tentative Subdivision Plan

- A. <u>Scale</u>
- B. General Information
- C. Existing Conditions
- D. Proposed Plan of Subdivision
- E. Partial Development
- F. Explanatory Information with Tentative Subdivision Plan
- G. Supplemental Plans with Tentative Subdivision Plans

FINDING: SATISFIED WITH CONDITIONS. The applicant has submitted the required information.

- A. The plan is drawn to a suitable scale.
- B. The application includes the required items in the General Information Section (B). Subsection (5) specifies, "In the event the subdivider plans to utilize the provisions of ORS 92.060 as pertains to "Delayed Monumentation," he shall notify the County Surveyor and Planning Commission and report said fact on the tentative plan.
- C. The application contains the required items in the Existing Conditions Section (C). Subsection (5) specifies inclusion of the following, "Natural features such as rock outcroppings, marshes, wooded areas, and isolated preservable trees. Areas noted in the Comprehensive Plan, Volume I Background Element, Chapter VII, The Parks and Recreation and Open Space Master Plan (1999), as potential open space lands should be identified."
- D. The application contains the required items in the Proposed Plan of Subdivision Section (D)
- E. The applicant is not proposing partial development of a tract owned by the subdivider. There is one large lot proposed, but the majority of the area is unbuildable and within the floodplain and within a proposed setback from top of river bank. Therefore, a future development plan per Section 17.53.090 is not needed.
- F. The applicant has provided explanatory information per Section (F). Subsection (2) requires proposed deed restrictions, if any, in outline form. The applicant has not submitted any proposed deed restrictions. Subsection 4 requires "special studies of areas which appear to be hazardous due to local conditions such as inundation or slippage." The applicant has provided a geotechnical report.
- G. The applicant has provided information as part of Subsection (G), and which "may be required by the Planning Commission." Additional information to be provided is specified in conditions of approval to be reviewed by the Engineering Department and utility providers.

17.53.071. Preliminary Review of Tentative Subdivision Plan

... A tentative plan for a subdivision with more than 10 (ten) lots shall be subject to Planning Commission review as required in Section 17.72.120.

FINDING: SATISFIED. The proposal includes a subdivision with more than 10 lots, and is therefore reviewed by the Planning Commission consistent with the procedures in Section 17.72.120.

17.53.073. Preliminary Approval of Tentative Subdivision Plan

The tentative plan shall "substantially conform to the requirements of this Chapter."

FINDING: SATISFIED WITH CONDITIONS. The plans have been submitted to affected agencies and departments for review and comment, and their comments are provided herein. When necessary to address conformance with requirements of this Chapter, the respective Zoning District, and other ordinances or policies, conditions of approval have been incorporated.

Future Development Plan

17.53.080 Submission of Future Development Plan

17.53.080.A. A future development plan is required when it is evident that the property to be subdivided or partitioned can be further divided. The future development plan shall be submitted at the same time that the tentative plan for either subdivision or partition is submitted and shall contain the following information:

- 1. Any potential future lots (lot size shall be depicted).
- 2. Existing and proposed utilities including water, sewer and storm drains.
- 3. Streets and access points for potential future lots.

APPLICANT RESPONSE: None of the proposed lots can be divided in the future, including lot 21. Even though lot 21 is 48,944 SF, due to the 60' wide slope setback recommended by geotechnical engineers, no building can take place within this 60' wide slope setback from the Yamhill River top of bank. Therefore, the building area is limited to 3,179 SF, which cannot be subdivided or partitioned in the future. Therefore, this section is not applicable.

17.53.080.B. It shall be the responsibility of the engineering department and planning department to review a future plan to ensure that it substantially conforms to the requirements of this chapter. The review body will ensure that infrastructure for the future plan is consistent with the current development requirements. The planning director may reject a future plan if it is found that it does not substantially conform to the requirements of this chapter. The review body may make any of the following recommendations:

1. The construction of streets and utilities or the dedication of right-of-way for future improvements.

2. Any easements as deemed necessary for the extension of utility services.

APPLICANT RESPONSE: None of the proposed lots can be divided in the future, including lot 21. Even though lot 21 is 48,944 SF, due to the 60' wide slope setback recommended by geotechnical engineers, no building can take place within this 60' wide slope setback from the Yamhill River top of bank. Therefore, the building area is limited to 3,179 SF, which cannot be subdivided or partitioned in the future. Therefore, this section is not applicable.

FINDING: SATISFIED. One proposed lot would be large enough for further division; however, the majority of the lot is constrained in unbuildable area; therefore, a future development plan is not required to address potential future division.

Approval of Streets and Ways (Sections 17.53.100-153):

17.53.100. Creation of Streets
17.53.101. Streets
17.53.103. Blocks
17.53.105. Lots
17.53.110. Lot Grading
17.53.120. Building Lines
17.53.130. Large Lot Subdivision
17.53.140. Left-Over Land

FINDING: SATISFIED WITH CONDITIONS.

- **Creation of Streets.** Proposed access of the lots is all onto public streets. Right-of-way and public utility easements would be dedicated on the plat.
- Streets. The proposed new street alignment is consistent with the original Planned Development approval in Ordinance 4719 and provides for extension consistent with the Planned Development master plan for the properties to the west. The right-of-way and street widths will be consistent with City standards.

The alignment of Dunn Place on abutting properties includes an easement along the frontage including a sidewalk easement where the street is offset from the centerline, and

Attachments: Attachment 1 – Applications and Attachments, 2 – December 7 Staff Memo, 3 – December 7 Submittal from Andrey Chernishov, 4 – December 7 Submittal from Joe Strunk, 5 – Geotechnical Report Addendum #1 from Strata Design

the proposed plan will continue the alignment consistent with direction and recommended conditions addressed by the Engineering Department. The T intersection at Dunn Place will be adequately offset from the centerlines of other existing streets. The proposed new street would dead-end at the west property line consistent with the Planned Development master plan that applies to the properties to the west, allowing for its future extension consistent with the master plan. The proposed street intersects at a 90 degree angle with Dunn Place.

Conditions of approval are included for construction of the frontage of Dunn Place to City standards. No cul-de-sacs or eyebrows are proposed. There are no adjacent railroads, frontage roads, or existing or proposed alleys, private ways, residential collector streets, or gated roads. Bikeways, sidewalks, and planter strips will be provided consistent with City standards.

• **Blocks.** The proposed street alignment is consistent with the original Planned Development master plan providing for east-west street connectivity. Existing development to the south and natural constraints to the north preclude additional street connections to the north or south or with further blocks connecting to properties to the west.

• Easements.

- Utilities. Utility easements are required as conditions of approval.
- Water courses. Drainage is proposed to be addressed with conveyance to the public system.
- Pedestrian ways. At this time, pedestrian facilities are provided in the public rightof-way and/or sidewalk easements.
- Lots. The proposed lots are consistent with the standards of Section 17.53.105, except that the lot depth/width ratio is greater than 2:1. This is not unusual for townhouse lots where there are common walls and zero lot line development, and the applicant has requested flexibility to this standard as part of the Planned Development Amendment. The lots also meet the standards of 17.11.070(C) in Table 1 for Townhouse Lots. There is no direct access onto an arterial or collector. No through lots are proposed. Side lot lines are at right angles to the streets. No flag lots are proposed.

Section 17.53.105(A) specifies in part, "All lots in a subdivision shall be buildable." The applicant has submitted Addendum #1 to the geotechnical report, updating the geotechnical analysis, demonstrating sufficiency of a 60-foot setback from top of physical bank of the river, demonstrating the proposal lots are reasonably found to be buildable, subject to the recommendations in the geotechnical report.

As a condition of approval, the applicant must demonstrate the plan is consistent with OAR 660-046-0010(3)(a)(A)(iii), including DLCD's interpretation of the rule. The applicant's plan shows proposed buildings would exceed 100 feet from the bankfull stage (2-year flood) of the Yamhill River.

- Lot Grading. The portion of the property to be developed is generally level. Grading shall comply with the provisions of Section 17.53.110. The applicant's storm drainage plan shall address the requirements of the Engineering Department.
- **Building Lines.** Section 17.53.120 specifies, "If special building setback lines are to be established in the subdivision or partition, they shall be shown on the plat or included in the deed restrictions."

Attachments: Attachment 1 – Applications and Attachments, 2 – December 7 Staff Memo, 3 – December 7 Submittal from Andrey Chernishov, 4 – December 7 Submittal from Joe Strunk, 5 – Geotechnical Report Addendum #1 from Strata Design

The applicant's plan shows the rear portions of some lots are within the 60' setback from top of bank. The proposed townhouses are not within the 60' setback. As a condition, lots 9, 10, and 20 would be revised so they do not extend into the 60-foot setback from top of bank.

- Large Lot Subdivision. Not applicable. The proposal doesn't include large lots which in the future are likely to be re-subdivided.
- Left-over Land. Not applicable. The proposal doesn't leave remnants of leftover land that are leftover or unsubdivided.

Improvements (Sections 17.53.150-153):

- 17.53.150. Improvement Procedures
- 17.53.151. Specifications for Improvements
- 17.53.153. Improvement Requirements

FINDING: SATISFIED WITH CONDITIONS. Improvements shall be completed in conjunction with final approved plans and construction agreements addressing conditions of approval.

<u>Three Mile Lane Review (TML 5-23), Subject to Ordinance 4131, as amended by Ordinance 4572</u> <u>and additional ordinances</u>

APPLICANT RESPONSE: As part of the Three Mile Lane Application, City of McMinnville requested HBH address Section 4 and Section 5 of Ordinance 4572, which replaced Ordinance 4131. Please refer to the submitted applications, plans and documents that were provided in concurrence with this application for your reference. Applicable criteria from Section 4 and Section 5 of Ordinance 4572 are stated below in italics followed by a response to how the development addresses those criteria.

Section 4. Policies. The following policies shall apply to the property described on the map in Exhibit "A":

A. The goals and policies of the McMinnville Comprehensive Plan, Volume II, applicable regulations and standards in Volume III, and other City codes shall be adhered to.

APPLICANT RESPONSE: See written responses to either concurrently submitted <u>17.74.070 Criteria</u> or <u>Written Findings</u> narratives. Both address the goals and policies of the Comprehensive Plan Volume II. Volume III is all ordinances and measures that were created to carry out the goals and policies of the comprehensive plan. Currently the applicant is adhering to Ordinances 4572 (replaced 4131), repealing the master plan of Ordinance 4956 and replacing with the submitted masterplan (Sheet C5 of the submitted plans), adhering to Ordinance 4719, and submitting a variance to adhere to Zoning Ordinance 3380. The City shall inform the applicant if other Ordinances or Codes are applicable for compliance.

FINDING: SATISFIED WITH CONDITIONS. Findings regarding the Goals and Policies in Volume II of the Comprehensive Plan are addressed in the respective sections of this decision document. Findings regarding applicable implementing regulations and standards that comprise Volume III of the Comprehensive Plan are also addressed in the respective sections of this decision document.

B. A one hundred twenty (120) foot setback from the centerline of Highway 18 shall be established both north and south of the highway.

APPLICANT RESPONSE: This property is not along the highway and ergo not subject to this provision.

FINDING: SATISFIED/NOT APPLICABLE. The subject property is not within 120 feet of the centerline of the highway.

- *C.* Access requirements adopted hereafter in an access plan for this area shall be adhered to. Provisions of the plan shall include:
 - 1. The minimization of entrances onto Three Mile Lane;

APPLICANT RESPONSE: The project site is not along the highway. The development does not propose any alterations to, nor is expected to contribute a significant impact to any of the entrances onto Three Mile Lane.

FINDING: SATISFIED. No direct access is proposed from the subject property to Three Mile Lane. Access is proposed to Dunn Place and the new street, both of which are functionally classified as local streets.

2. The development of on-site circulation systems, connecting to adjoining properties, including public frontage roads;

APPLICANT RESPONSE: The applicant is developing public frontage improvements along the west side NE Dunn Place and adding a new public street connected to NE Dunn Place to serve the development. These improvements will provide direct connectivity for each lot of the development to the public right of way.

FINDING: SATISFIED. No direct access is proposed from the subject property to Three Mile Lane or a frontage road. Access is proposed to Dunn Place and to the new street, both of which are functionally classified as local streets. The proposed new street provides for a future connection to the west, consistent with the point of connection in the currently and previously approved master plans for the Planned Development.

3. The provisions of acceleration-deceleration lanes and left-turn refuges when and where necessary and practicable.

APPLICANT RESPONSE: Neither NE Dunn Place or Marjorie Lane, given they are both local roads, will have sufficient width, traffic, or speed to necessitate the need for acceleration-deceleration lanes or left-turn refuges. The development will not significantly impact any nearby intersections to the effect of necessitating the installation of either of these features.

FINDING: SATISFIED. Access is proposed to Dunn Place and to the new street, both of which are functionally classified as local streets. Acceleration and deceleration lanes are not required and are not conducive to design speeds for local residential streets.

4. The provision of bikeways along frontage roads or on-site circulation systems. Bikeway connections accessing Three Mile Lane shall be provided so that the frontage road or on-site circulation system can serve as an alternative route for cyclists traveling along Three Mile Lane.

APPLICANT RESPONSE: Bike facilities are not incorporated with this development to conform to the surrounding neighborhood and the City's TSP. Bicycle lanes do not exist in this neighborhood nor on adjacent minor collector NE Cumulus Avenue. Per the City's TSP, the only bicycle facilities warranted are along Highway 18.

FINDING: SATISFIED WITH CONDITIONS. Proposed access is via public streets. The streets are functionally classified as local streets, which do not include on-street bike lanes.

D. Landscaping and buffer strips along the highway frontage may be required including noise buffering methods, such as berms and/or plantings.

APPLICANT RESPONSE: This property does not front the highway and ergo not subject to these requirements.

FINDING: NOT APPLICABLE. The subject property does not abut the highway or frontage road. Access is provided to local residential streets.

E. Mixed housing-type residential developments shall be allowed and encouraged in those areas designated as residential.

APPLICANT RESPONSE: This development is zoned as residential. This development is a style of housing that is not currently present in the neighborhood, which will diversify the housing type in the area.

FINDING: SATISFIED. The subject property is zoned R-4 PD. Townhouse development, as well as detached single or middle housing, is permitted use in the R-4 PD zone.

F. Temporary signage shall be allowed as per Section 17.62.060(B) (3) of the McMinnville Zoning Ordinance.

APPLICANT RESPONSE: Temporary signage is not proposed. However, if temporary signage is constructed, the placement shall adhere to provisions of City Municipal Code 17.62.060(B)(3).

FINDING: SATISFIED/NOT APPLICABLE. No temporary signage is proposed, but would be authorized as specified in the Zoning Ordinance.

Section 5. Signs.

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APPLICANT RESPONSE: The property is neither industrial nor commercial. Signs are not proposed for this development. Therefore, this section does not apply. If the applicant decides to have a sign at a later date, it is understood that this section will need to be met.

FINDING: SATISFIED WITH CONDITIONS. The applicant isn't proposing signage. If any future signage is proposed, the applicant will need to submit a sign permit application prior to any signage. The Planning Director will review signage for consistency with the provisions of Zone 1 of the Three Mile Lane Planned Development Ordinance as well as any applicable provisions of the Planned Development Ordinances and Chapter 17.62 of the Zoning Ordinance.

Section 6. Procedures for Review

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FINDING: SATISFIED. This Three Mile Lane Review addresses the requirements of Section 6. This is a consolidated concurrent review of applications, with the Planning Commission making the decision.

Comprehensive Plan Volume II:

The implementation of the goal, policy, and proposal statements in Volume II of the Comprehensive Plan shall occur in one of two ways. First, the specific goal, policy, or proposal shall be applied to a land use decision as a criterion for approval, denial, or modification of the proposed request. In this case the goal, the policy, or the proposal is directly applied. The second method for implementing these statements is through the application of provisions and regulations in ordinances and measures created to carry out the goals and policies. This method involves the indirect application of the statements.

Certain Goals, Policies, and Proposals from Volume II of the Comprehensive Plan provide criteria applicable to this request. The implementation of many of the goals, policies, and proposals as they apply to quasi-judicial land use applications are accomplished through the provisions, procedures, and standards in the city codes and master plans, which are sufficient to adequately address applicable goals, polices, and proposals as they apply certain applications, and are not addressed below.

The following findings are made relating to specific Goals and Policies:

APPLICANT'S RESPONSE: Italicized below are the applicable comprehensive plan goals and policies followed by a response stating how they are satisfied. [**NOTE:** Where "APPLICANT'S RESPONSE" is not indicated for a specific goal or policy listed below, findings were made, but not included in the applicant's submittal.]

CHAPTER II. NATURAL RESOURCES

GOAL II.1. TO PRESERVE THE QUALITY OF THE AIR, WATER, AND LAND RESOURCES WITHIN THE PLANNING AREA.

LAND

Policies:

<u>Policy 2.00</u> The City of McMinnville shall continue to enforce appropriate development controls on lands with identified building constraints, including, but not limited to, excessive slope, limiting soil characteristics, and natural hazards.

APPLICANT'S RESPONSE: N/A. (See materials from Geotechnical Engineer submitted by applicant).

FINDING: SATISFIED WITH CONDITIONS. Chapter 17.53 of the Zoning Ordinance authorizes special studies in conjunction with subdivisions. The applicant submitted a geotechnical report, and the City obtained an independent third party review. The applicant responded to the issues identified in the independent review letter, and the proposal will provide lots with buildable area outside the 60-foot setback identified in the updated analysis.

The application is subject to the regulations in effect at time of application, and the City's pending Natural Hazards program is not adopted, and was not in effect at the time of application, and therefore is not applicable.

CHAPTER V. HOUSING AND RESIDENTIAL DEVELOPMENT

GOAL V.1: TO PROMOTE DEVELOPMENT OF AFFORDABLE, QUALITY HOUSING FOR ALL CITY RESIDENTS.

General Housing Policies

GOAL V.2: TO PROMOTE A RESIDENTIAL DEVELOPMENT PATTERN THAT IS LAND INTENSIVE AND ENERGY-EFFICIENT, THAT PROVIDES FOR AN URBAN LEVEL OF PUBLIC AND PRIVATE SERVICES, AND THAT ALLOWS UNIQUE AND INNOVATIVE DEVELOPMENT TECHNIQUES TO BE EMPLOYED IN RESIDENTIAL DESIGNS.

Policies:

<u>Policy 68.00</u> The City of McMinnville shall encourage a compact form of urban development by directing residential growth close to the city center and to those areas where urban services are already available before committing alternate areas to residential use.

<u>Applicants Response</u>: Policy 68 is satisfied. Urban services exist adjacent to the subject site and are available to serve the subject property.

<u>Policy 71.00</u> The City of McMinnville shall designate specific lands inside the urban growth boundary as residential to meet future projected housing needs. Lands so designated may be developed for a variety of housing types. All residential zoning classifications shall be allowed in areas designated as residential on the Comprehensive Plan Map.

<u>Applicants Response</u>: Policy 71.00 is satisfied. The applicant proposes to develop townhome style housing. This style of housing is not common in the immediate area and will help to diversify the types of housing available to the community.

Planned Development Policies:

<u>Policy 73.00</u>: Planned residential developments which offer a variety and mix of housing types and prices shall be encouraged.

<u>Applicants Response</u>: Policy 73.00 is satisfied. The existing PD overlay zone was approved for a senior care facility. Approving the PD modification would allow for a greater variety of housing types in the area at varying price ranges based on size.

<u>Policy 75.00 & 76.00</u> Common open space in residential planned developments shall be designed to directly benefit the future residents of the developments. When the open space is not dedicated to or accepted by the City, a mechanism such as a homeowners association, assessment district, or escrow fund will be required to maintain the common area. Parks, recreation facilities, and community centers within planned developments shall be located in areas readily accessible to all occupants.

Applicants Response: Policy 75.00 and 76.00 is satisfied. The applicant is dedicating Tract A to the HOA as open space. This area also includes a proposed underground stormwater detention facility that serves the entire subdivision. The tract will also have a 3' tall black chain link fence north of the public sidewalk. The tract will feature landscaping with shrubs along the fence line and grass in the center meeting city landscaping requirements. Due to the underground stormwater facility and stormwater pipes, shrubs with small roots are proposed in order to not negatively impact the underground utilities.

<u>Policy 77.00 & 78.00</u> The internal traffic system in planned developments shall be designed to promote safe and efficient traffic flow and give full consideration to providing pedestrian and bicycle pathways. Traffic systems within planned developments shall be designed to be compatible with the circulation patterns of adjoining properties.

Applicants Response: Policy 77.00 and 78.00 is satisfied. The proposed vehicle and pedestrian traffic system provides safe and compatible patterns with the adjoining transportation system. Bike facilities are not incorporated with this development to conform to the surrounding areas and the City's TSP. Public sidewalks are proposed on all public road frontages to be used as pedestrian pathways.

Residential Design Policies:

<u>Policy 81.00</u> Residential designs which incorporate pedestrian and bikeway paths to connect with activity areas such as schools, commercial facilities, parks, and other residential areas, shall be encouraged.

<u>Applicants Response</u>: Policy 81.00 is satisfied. The sidewalks from the development also bring access to nearby Bend-O-River mini-park and the McMinnville Cinemas, approximately a block away from the development.

<u>Policy 82.00</u> The layout of streets in residential areas shall be designed in a manner that preserves the development potential of adjacent properties if such properties are recognized for development on the McMinnville Comprehensive Plan Map.

<u>Applicants Response</u>: Policy 82.00 is satisfied. NE Marjorie Lane can be extended through the neighboring two properties to the west without impacting the existing homes on the two properties. This could allow for the development of the currently vacant southern half of these two lots while maintaining the existing homes to the north of the lots (see Neighborhood Master Plan on submitted plans). Full development north and south of future NE Marjorie Lane would also be an option for these properties.

Urban Policies:

<u>Policy 99.00</u> An adequate level of urban services shall be provided prior to or concurrent with all proposed residential development, as specified in the acknowledged Public Facilities Plan. Services shall include, but not be limited to: 1. Sanitary sewer collection and disposal lines. Adequate municipal waste treatment plant capacities must be available. 2. Storm sewer and drainage facilities (as required). 3. Streets within the development and providing access to the development, improved to city standards (as required). 4. Municipal water distribution facilities and adequate water supplies (as determined by City Water & Light).

Applicants Response: Policy 99.00 is satisfied. Urban services can be provided concurrently with the proposed residential development and are proposed to be constructed that way. An existing eight-inch sanitary sewer is available in NE Dunn Place and is proposed to be extended to service this project. There is an existing 12-inch storm drain line in NE Dunn Place that is proposed to be extended to service this project. Water and power are available to serve the subject property in NE Dunn Place. A six-inch water line is available in NE Dunn Place and is proposed to be extended to service this project.

FINDING (CHAPTER V): SATISFIED WITH CONDITIONS. The property is zoned R-4 PD, and the proposed use is a permitted use in the zone. Utilities are available to serve the development and will need to be constructed and/or extended as part of the development to serve the proposed lots and homes. The street layout is consistent with the connectivity in the previous Planned Development master plan approvals, allowing for extension to abutting properties. The proposed street improvements will be consistent with the City's local street standards. The street layout provides relatively direct street connections for bikes, pedestrians, and vehicles. The standards for local residential streets do not include bike lanes.

CHAPTER VI. TRANSPORTATION SYSTEM

GOAL VI.1: TO ENCOURAGE DEVELOPMENT OF A TRANSPORTATION SYSTEM THAT PROVIDES FOR THE COORDINATED MOVEMENT OF PEOPLE AND FREIGHT IN A SAFE AND EFFICIENT MANNER. MASS TRANSPORTATION

<u>Streets</u>

<u>Policy 117.00</u> City of McMinnville shall endeavor to insure that the roadway network provides safe and easy access to every parcel.

<u>Policy 118.00</u> The City of McMinnville shall encourage development of roads that include the following design factors:

1. Minimal adverse effects on, and advantageous utilization of natural features of the land.

2. Reduction in the amount of land necessary for streets with continuance of safety, maintenance, and convenience standards.

3. Emphasis placed on existing and future needs of the area to be serviced. The function of the street and expected traffic volumes are important factors.

4. Consideration given to Complete Streets, in consideration of all modes of transportation (public transit, private vehicle, bike, and footpaths). (Ord.4922, February 23, 2010)

5. Connectivity of local residential streets shall be encouraged. Residential culde-sac streets shall be discouraged where opportunities for through streets exist.

Applicants Response: Policies 117.00 and 118.00 are satisfied. Every parcel will be served by a driveway that accesses a public street. The driveways will be constructed to City standards. The west side of NE Dunn Place will be improved to City standards with curbs, sidewalks and planter strips that provide multi-modal transportation. NE Marjorie Lane will be constructed to City standards with asphalt, curbs, sidewalks, and planter strips that provide multi-modal transportation needs. NE Marjorie Lane is aligned such that the two properties to the west could be partially or fully developed in a similar manner when continuing the road along the proposed alignment to the west.

The South Yamhill River runs through the northwest corner of the property. A site geotechnical investigation (attached) was prepared by Strata Design, LLC in 2014 for the memory care facility that was proposed as part of application CU3-19. The section of property of which the South Yamhill River runs through features steep slopes. A prior slope stability investigation in 2005 found that these steep slopes were unsuitable for construction. The 2005 report imposed a 60 feet setback buffer on the property where no buildings should be constructed. The 2014 report performed soil investigations of the steep slopes and compared them to the original 2005 findings. The 2014 report found the 2005 findings to be conservative in nature and reaffirmed the 60 feet of setback should be abided by. Also attached is a recent 2023 geotechnical report that agrees with the previous geotechnical reports, following two site visits in 2023, since the site conditions have not changed for this property.

<u>Policy 122.00</u> The City of McMinnville shall encourage the following provisions for each of the three functioned road classifications:

3. Local Streets -Designs should minimize through-traffic and serve local areas only. -Street widths should be appropriate for the existing and future needs of the area. -Offstreet parking should be encouraged wherever possible. -Landscaping should be encouraged along public rights-of-way.

Applicants Response: Policy 122.00 (3) is satisfied. The new NE Marjorie Lane will be a local street that primarily serves the residential properties fronting the road. The only expected through traffic on NE Marjorie Lane will be the residents of the two properties directly to the west. These residents already use an existing gravel road that is in the location of the proposed NE Marjorie Lane. The increased traffic on NE Dunn Place from the development is expected to primarily head south and disperse on the minor collector NE Cumulus Avenue. The cross-sectional widths, depths, and materials of NE Marjorie Lane and the intersection with NE Dunn Place will be to City standards. Five-foot-wide landscaping buffers will be installed between the back of curb with a five-foot-wide sidewalk on NE Dunn Place and NE Marjorie Lane.

<u>Parking</u>

<u>Policy 126.00</u> The City of McMinnville shall continue to require adequate off-street parking and loading facilities for future developments and land use changes.

<u>Policy 127.00</u> The City of McMinnville shall encourage the provision of off-street parking where possible, to better utilize existing and future roadways and rights-of-way as transportation routes.

Applicants Response: Policies 126.00 and 127.00 are satisfied. Two parking spaces will be provided on each lot. These parking spaces will encourage off-street parking.

<u>Bike Paths</u>

<u>Policy 132.00</u> The City of McMinnville shall encourage development of subdivision designs that include bike and foot paths that interconnect neighborhoods and lead to schools, parks, and other activity areas. (Ord. 4922, February 23, 2010; Ord. 4260, August 2, 1983)

<u>Applicants Response</u>: Policy 132.00 is satisfied. The tentative plan for the subject property provides for public walkways that connect to adjacent neighborhoods, a nearby City park, and movie theaters.

FINDING (CHAPTER VI): SATISFIED WITH CONDITIONS. The proposal includes required off-street parking. The street layout is consistent with the connectivity in the previous Planned Development master plan approvals, allowing for extension to abutting properties. It provides the most direct connectivity given constraints of existing development and natural features, with relatively direct connections for bikes, pedestrians, and vehicles. The proposed street improvements will be consistent with the City's local street standards. The standards for local residential streets do not include bike lanes.

CHAPTER VII. COMMUNITY FACILITIES AND SERVICES

GOAL VII 1: TO PROVIDE NECESSARY PUBLIC AND PRIVATE FACILITIES AND UTILITIES AT LEVELS COMMENSURATE WITH URBAN DEVELOPMENT, EXTENDED IN A PHASED MANNER, AND PLANNED AND PROVIDED IN ADVANCE OF OR CONCURRENT WITH DEVELOPMENT, IN ORDER TO PROMOTE THE ORDERLY CONVERSION OF URBANIZABLE AND FUTURE URBANIZABLE LANDS TO URBAN LANDS WITHIN THE MCMINNVILLE URBAN GROWTH BOUNDARY.

Sanitary Sewer System

<u>Policy 136.00</u> The City of McMinnville shall insure urban developments are connected to the municipal sewage system pursuant to applicable city, state, and federal regulations.

<u>Policy 139.00</u> The City of McMinnville shall extend or allow extension of sanitary sewage collection lines within the framework outlined below: VOLUME II Goals and Policies Page 48

1. Sufficient municipal treatment plant capacities exist to handle maximum flows of effluents.

2. Sufficient trunk and main line capacities remain to serve undeveloped land within the projected service areas of those lines.

3. Public water service is extended or planned for extension to service the area at the proposed development densities by such time that sanitary sewer services are to be utilized.

4. Extensions will implement applicable goals and policies of the comprehensive plan.

<u>Applicants Response</u>: Policy 136.00 and 139.00 are satisfied. A public sanitary sewer collection system will be constructed with the development of the streets and public utilities to provide service to each individual lot within the subject development. The proposed eight-inch sanitary sewer extension in NE Marjorie Lane has sufficient capacity to service the subdivision based on the proposed density of the project.

<u>Storm Drainage</u>

<u>Policy 142.00</u> The City of McMinnville shall insure that adequate storm water drainage is provided in urban developments through review and approval of storm drainage systems, and through requirements for connection to the municipal storm drainage system, or to natural drainage ways, where required.

<u>Applicants Response</u>: Policy 142.00 is satisfied. The City of McMinnville has identified the downstream 12-inch pipe as having capacity issues. Per City of McMinnville design standards, a stormwater detention facility is proposed to detain and release stormwater runoff at predeveloped or lower peak flow rates for the 10-year storm event.

FINDING (CHAPTER VII): SATISFIED WITH CONDITIONS. As conditions of approval, all utilities and public facilities will be designed and installed in accordance with applicable standards.

CHAPTER IX URBANIZATION

- GOAL IX 1: TO PROVIDE ADEQUATE LANDS TO SERVICE THE NEEDS OF THE PROJECTED POPULATION TO THE YEAR 2023, AND TO ENSURE THE CONVERSION OF THESE LANDS IN AN ORDERLY, TIMELY MANNER TO URBAN USES.
- GOAL IX 2: TO ESTABLISH A LAND USE PLANNING FRAMEWORK FOR APPLICATION OF THE GOALS, POLICIES, AND PROPOSALS OF THE MCMINNVILLE COMPREHENSIVE PLAN

GREAT NEIGHBORHOOD PRINCIPLES:

Policies:

187.50 The McMinnville Great Neighborhood Principles are provided below. Each Great Neighborhood Principle is identified by number below (numbers 1 - 13), and is followed by more specific direction on how to achieve each individual principle

Applicants Response: As part of the Planned Development Amendment Application and Subdivision Applications, City of McMinnville requested HBH to address the Great Neighborhood Principles in policies 187.10-187.50 of the Comprehensive Plan. Please refer to the submitted plans and documents for your reference. The Great Neighborhood Principles are identified numbers 1-13 in Comprehensive Plan policy 187.50. Those principles are listed below in italics followed by a response to how the development addresses these principles.

187.50.1. Natural Feature Preservation. Great Neighborhoods are sensitive to the natural conditions and features of the land.

a. Neighborhoods shall be designed to preserve significant natural features including, but not limited to, watercourses, sensitive lands, steep slopes, wetlands, wooded areas, and landmark trees.

Applicants Response: The subject property contains a portion of the South Yamhill River on the northwest corner of the property. The proposed improvements would be set back 60 feet from the top of bank to minimize impacts to natural areas. This setback will allow for the natural area near the river to remain undisturbed. Trees along the riverbank and riparian area will be preserved. Some trees near the existing dwelling and outbuildings would need to be removed to allow demolition of the structures. A precise plan indicating which trees will be demolished is shown on sheet C2. No development will occur near steep slopes along the riverbank.

187.50.2. Scenic Views. Great Neighborhoods preserve scenic views in areas that everyone can access.

a. Public and private open spaces and streets shall be located and oriented to capture and preserve scenic views, including, but not limited to, views of significant natural features, landscapes, vistas, skylines, and other important features.

<u>Applicants Response</u>: The proposed townhomes will consist of two-story structures that are a maximum of 29 feet and 4 inches in height. This lower building height will help preserve views of the river to the north and the surrounding skyline.

187.50.3. Parks and Open Spaces. Great Neighborhoods have open and recreational spaces to walk, play, gather, and commune as a neighborhood.

a. Parks, trails, and open spaces shall be provided at a size and scale that is variable based on the size of the proposed development and the number of dwelling units.

b. Central parks and plazas shall be used to create public gathering spaces where appropriate.

c. Neighborhood and community parks shall be developed in appropriate locations consistent with the policies in the Parks Master Plan.

Applicants Response: The applicant is dedicating Tract A to the HOA as open space. This area also includes a proposed underground stormwater detention facility that serves the entire subdivision. The tract will also have a 3' tall black chain link fence north of the public sidewalk. The tract will feature landscaping with shrubs along the fence line and grass in the center meeting city landscaping requirements. Due to the underground stormwater facility and stormwater pipes, shrubs with small roots are proposed in order to not negatively impact the

underground utilities. The nearest park is Bend O River mini park located between the culde-sacs of NE Clark Ct and NE Norton Ct one block away from the proposed development.

187.50.4. Pedestrian Friendly. Great Neighborhoods are pedestrian friendly for people of all ages and abilities.

a. Neighborhoods shall include a pedestrian network that provides for a safe and enjoyable pedestrian experience, and that encourages walking for a variety of reasons including, but not limited to, health, transportation, recreation, and social interaction. b. Pedestrian connections shall be provided to commercial areas, schools, community facilities, parks, trails, and open spaces, and shall also be provided between streets that are disconnected (such as cul-de-sacs or blocks with lengths greater than 400 feet). The plan can be completed within a reasonable period of time.

Applicants Response: A sidewalk five feet wide will be developed on each side of the proposed Marjorie Lane, providing pedestrian access to the site. Additionally, street improvements along NE Dunn Place will span the length of the subject property, including street trees and sidewalk on the west side of the street.

187.50.5. Bike Friendly. Great Neighborhoods are bike friendly for people of all ages and abilities.

a. Neighborhoods shall include a bike network that provides for a safe and enjoyable biking experience, and that encourages an increased use of bikes by people of all abilities for a variety of reasons, including, but not limited to, health, transportation, and recreation.

b. Bike connections shall be provided to commercial areas, schools, community facilities, parks, trails, and open spaces.

Bike facilities are not incorporated with this development to conform to the surrounding area and the City's TSP.

187.50.6. Connected Streets. Great Neighborhoods have interconnected streets that provide safe travel route options, increased connectivity between places and destinations, and easy pedestrian and bike use.

a. Streets shall be designed to function and connect with the surrounding built environment and the existing and future street network, and shall incorporate human scale elements including, but not limited to, Complete Streets features as defined in the Comprehensive Plan, grid street networks, neighborhood traffic management techniques, traffic calming, and safety enhancements.

b. Streets shall be designed to encourage more bicycle, pedestrian and transit mobility with a goal of less reliance on vehicular mobility.

Applicants Response: The proposed project would develop a new public road, Marjorie Lane, with the required sidewalk and planter strips for street trees. These sidewalks are connected to an existing local sidewalk system that provides access to nearby parks, retail, and industry. The sidewalk system also connects the development to Yamhill County Transit Route #2. The transit route is part of the greater Yamhill County Transit System which connects Grand Ronde, Hillsboro, Newberg, West Salem, Lafayette, Dundee, Sherwood, King City, Tualatin, and Tigard. Route #2 has a stop directly along the property's frontage at the intersection of Dunn Place and NE Aaron Drive. Route #2 also has a stop at the Yamhill County Housing Authority, which is the property directly south of the development.

187.50.7. Accessibility. Great Neighborhoods are designed to be accessible and allow for ease of use for people of all ages and abilities.

a. To the best extent possible all features within a neighborhood shall be designed to be accessible and feature elements and principles of Universal Design.b. Design practices should strive for best practices and not minimum practices.

<u>Applicants Response</u>: The neighborhood will construct sidewalks, ramps, and intersections meeting current PROWAG and City design regulations.

187.50.8. Human Scale Design. Great Neighborhoods have buildings and spaces that are designed to be comfortable at a human scale and that foster human interaction within the built environment.

a. The size, form, and proportionality of development is designed to function and be balanced with the existing built environment.

b. Buildings include design elements that promote inclusion and interaction with the rightof-way and public spaces, including, but not limited to, building orientation towards the street or a public space and placement of vehicle-oriented uses in less prominent locations.

c. Public spaces include design elements that promote comfortability and ease of use at a human scale, including, but not limited to, street trees, landscaping, lighted public areas, and principles of Crime Prevention through Environmental Design (CPTED).

<u>Applicants Response</u>: The development will feature buildings orientated towards the public right-of-way. There will be street lighting meeting city and CPTED standards. Residential construction is consistent with the surrounding areas. There will be street trees, public sidewalks, and grassed landscaping along all developed ROW frontages.

187.50.9. Mix of Activities. Great Neighborhoods provide easy and convenient access to many of the destinations, activities, and local services that residents use on a daily basis.

a. Neighborhood destinations including, but not limited to, neighborhood-serving commercial uses, schools, parks, and other community services, shall be provided in locations that are easily accessible to surrounding residential uses.

b. Neighborhood-serving commercial uses are integrated into the built environment at a scale that is appropriate with the surrounding area.

c. Neighborhoods are designed such that owning a vehicle can be optional.

Applicants Response: There are many recreational, dining, and medical options within walking distance of the proposed project. Willamette Valley Medical Center and satellite medical offices exist within approximately a ¼ mile of the development. McMinnville Cinemas and Chemeketa Community College also exist within the same radius of the development. The frontage of the development currently features an existing bus stop that connects to the county-wide transit system.

187.50.10. Urban-Rural Interface. Great Neighborhoods complement adjacent rural areas and transition between urban and rural uses.

a. Buffers or transitions in the scale of uses, buildings, or lots shall be provided on urban lands adjacent to rural lands to ensure compatibility.

<u>Applicants Response</u>: The site is not adjacent to any rural land uses. The site is bordered to the north, east, and west with single family residential homes. The south side of the property is bordered by government offices.

187.50.11. Housing for Diverse Incomes and Generations. Great Neighborhoods provide housing opportunities for people and families with a wide range of incomes, and for people and families in all stages of life.

a. A range of housing forms and types shall be provided and integrated into neighborhoods to provide for housing choice at different income levels and for different generations.

Applicants Response: Townhomes are in variance from the surrounding forms of housing, which primarily are single-story, single-family homes on lots average five to ten thousand square feet. There are two single-family residential lots to the west that are approximately 2.5 acres per lot. The proposed lots are smaller the surrounding, ranging from 2,594 to 48,944 square feet. The large lot is limited to 3,179 SF of buildable area due to the established sixty feet slope setback from the top bank of the South Yamhill River. The townhome lots would complement the area with a previously unavailable housing style and lot size. This would increase availability for a wider range of people and families seeking residence in the neighborhood.

187.50.12. Housing Variety. Great Neighborhoods have a variety of building forms and architectural variety to avoid monoculture design.

a. Neighborhoods shall have several different housing types.

b. Similar housing types, when immediately adjacent to one another, shall provide variety in building form and design.

Applicants Response: Townhomes are in variance from the surrounding forms of housing, which are primarily single-story, single-family homes on lots average five to ten thousand square feet. There are two single-family residential lots to the west that are approximately 2.5 acres per lot. The proposed lots are smaller, ranging from 2,594 to 48,944 square feet. The large lot is limited to 3,179 SF of buildable area due to the established sixty feet slope setback from the top bank of the South Yamhill River. The townhome lots would complement the neighborhood with a previously unavailable housing style and lot size.

The townhomes, being a single building assigned to multiple tax lots, by design will be similar for several adjacent tax lots. The applicant is proposing multiple building layouts and styles to supply aesthetic variance to the development.

187.50.13. Unique and Integrated Design Elements. Great Neighborhoods have unique features, designs, and focal points to create neighborhood character and identity. Neighborhoods shall be encouraged to have:

a. Environmentally friendly construction techniques, green infrastructure systems, and energy efficiency incorporated into the built environment.

b. Opportunities for public art provided in private and public spaces.

c. Neighborhood elements and features including, but not limited to, signs, benches, park shelters, street lights, bike racks, banners, landscaping, paved surfaces, and fences, with a consistent and integrated design that are unique to and define the neighborhood. (Ord 5066 §2, April 9, 2019)

<u>Applicants Response</u>: The proposed development will be designed to meet building code standards for water and energy conservation. There are no current plans for public art. The pedestrian amenities of the site include streetlights, ADA accessible concrete ramps and sidewalks, landscaping, and paved driveways. The design approach will integrate the form and function of these features with the main building design.

FINDING (CHAPTER IX): SATISFIED WITH CONDITIONS. Subject to conditions of approval, the proposal is consistent with the Great Neighborhood Principles in Chapter IX.

CHAPTER X: CITIZEN INVOLVEMENT AND PLAN AMENDMENT

GOAL X.1. TO PROVIDE OPPORTUNITIES FOR CITIZEN INVOLVEMENT IN THE LAND USE DECISION MAKING PROCESS ESTABLISHED BY THE CITY OF MCMINNVILLE.

Policies

188.00 The City of McMinnville shall continue to provide opportunities for citizen involvement in all phases of the planning process. The opportunities will allow for review and comment by community residents and will be supplemented by the availability of information on planning requests and the provision of feedback mechanisms to evaluate decisions and keep citizens informed.

FINDING: SATISFIED. The proposal includes a proposed amendment to a Planned Development and master plan and a Subdivision, which require a noticed public hearing and a Planning Commission decision. The Zoning Ordinance provides for a concurrent consolidated review process when there are multiple applications associated with a development proposal, using the procedure that provides the greatest opportunity for public involvement. The Three Mile Lane Review is included in this concurrent review which provides greater opportunity for public involvement.

In addition, the procedures require the applicant to conduct a neighborhood meeting prior to submitting the application. The applicant conducted the required neighborhood meeting and submitted the required documentation with the application.

Three Mile Lane Area Plan (Ordinance 5126) – Policies and Urban Design Elements

GENERAL FINDING:

Three Mile Lane Area Plan Policies

As described in the Plan: "The following policies are intended to guide development and future planning decisions in the Three Mile Lane area. These policies implement the Three Mile Lane Area Plan goals and describe how Great Neighborhood Principles are expected to be expressed in the future growth and development of the Three Mile Lane Area."

Please also note that OAR 660-046-0215 specifies:

Permitted Uses and Approval Process.

Large Cities must apply the same approval process to Middle Housing as detached single-family dwellings in the same zone. Pursuant to OAR 660-008-0015 and ORS 197.307, Large Cities may adopt and apply only clear and objective standards, conditions, and procedures regulating the development of Middle Housing consistent with the requirements of ORS 197.307. Nothing in this rule prohibits a Large City from adopting an alternative approval process for applications and permits for Middle Housing based on approval criteria that are not clear and objective as provided in OAR 660-007-0015(2), OAR 660-008-0015(2), and ORS 197.307(6).

The definition of middle housing includes townhouses. The property is subject to a Planned Development Overlay, and the applicant has requested a Planned Development Amendment. The purpose of a Planned Development is, in part, "To provide greater flexibility and greater freedom of design in the development of land than may be possible under strict interpretation of the provisions of the zoning ordinance," which is an alternative approval process based on criteria that are not clear and objective. The Planned Development Amendment amends the master plan. The applicant has requested minimal flexibility to the underlying adopted clear and objective standards for the subdivision and townhouse development standards.

Attachments: Attachment 1 – Applications and Attachments, 2 – December 7 Staff Memo, 3 – December 7 Submittal from Andrey Chernishov, 4 – December 7 Submittal from Joe Strunk, 5 – Geotechnical Report Addendum #1 from Strata Design

1. Require future development to be consistent with the design elements of the Three Mile Lane Area Plan.

FINDING: SATISFIED. The applicant has proposed complementary but differing building designs in the different townhouse units. The architecture incorporates board and batten siding, a material used in agricultural buildings.

2. Public improvements and private development shall strive to protect tree groves and mature individual trees.

3. Riparian corridors and adjacent native landscape shall be protected.

FINDING: (Policies 2 and 3): SATISFIED. The proposed plan preserves the riparian area and the majority of the mature trees in the proposed 60-foot setback from top of streambank.

4. The built environment will be designed to provide and protect views to rolling hills and volcanoes and to enhance visual and physical access to the North Yamhill River. New streets and open spaces will be oriented to capture views.

FINDING: SATISFIED. The street layout is consistent with the previous connectivity, and is limited by existing development and natural features. The two-story development and the distance from the highway doesn't obstruct views from the highway corridor.

5. Enhancing connections to existing trails and open space, such as connections into Joe Dancer Park and McBee Park, and creating a public greenway along South Yamhill River with trails and connections to the Three Mile Lane Area is a priority.

FINDING: SATISFIED WITH CONDITIONS. As a condition of approval, staff recommends that the property owner reserve to the City the option for a future easement for a trail along the riparian area.

6. New gathering spaces will be designed to incorporate natural areas and views.

FINDING: SATISFIED. The proposed common area is Tract A, near the treed riparian area.

7. Require native landscape plantings with seasonal variation and tree plantings that include shade streets with mature tree canopy.

FINDING: SATISFIED WITH CONDITIONS. The landscaping for individual lots is subject to clear and objective standards. The applicant will be required to submit a street tree plan for review and approval. The Tract A common area shall be designed to be consistent with this policy.

8. A network of sidewalks and trails will connect people to key locations within the Three Mile Lane Area.

FINDING: SATISFIED. As a condition of approval, staff recommends that the property owner reserve to the City the option for a future easement for a trail along the riparian area.

9. The Three Mile Lane Area will have safe bicycle routes for residents and touring cyclists.

10. Proposed new streets will connect to the existing local street grid, consistent with the conceptual designs in the Three Mile Lane Area Plan and in compliance with Transportation System Plan standards.

FINDING: SATISFIED WITH CONDITIONS. The proposal includes local street connectivity with opportunity for further connectivity to the west, and the new street connects to Dunn Place with sidewalk connectivity to the existing street grid.

11. New commercial developments should be designed to be at a walkable, human scale and for ease of use by all ages and abilities.

FINDING: NOT APPLICABLE. The proposal is not a commercial development.

12. New commercial, office, mixed-use, and multi-family developments should be designed to reflect the micro-climate and enhance outdoor life through the incorporation of features such as porches, balconies, courtyards, plazas, etc.

FINDING: NOT APPLICABLE. The proposed use is single-attached dwellings (townhouses).

13. New commercial, office, mixed-use, and industrial campus developments should promote inclusion and interaction within the right-of-way.

14. Encourage mixed-use development where feasible.

FINDING: NOT APPLICABLE. The proposal doesn't include these uses.

15. Proposed site landscape for new development should strive to reflect patterns of wine industry—eg, rows of vines, southern orientation, shelter belts of trees – and consider functional site planning of vineyard and farm complexes as conceptual models.

FINDING: SATISFIED WITH CONDITIONS. The landscaping for individual lots is subject to clear and objective standards. The applicant will be required to submit a street tree plan for review and approval. The Tract A common area shall be designed to be consistent with this policy.

16. New development should consider adjacency to agricultural fields and respect this heritage through careful transitions.

FINDING: NOT APPLICABLE. The property is not adjacent to rural agricultural use.

17. Architectural building design that includes simple roof forms (industrial and agricultural) is encouraged in the Three Mile Lane Area.

APPLICANT'S RESPONSE: The proposed townhouse structures include simple gable forms which are consistent with industrial and agricultural uses in the Three Mile Lane Area.

18. Encourage a diversity of future housing forms, types, and design that respect the current character of the area.

APPLICANT'S RESPONSE: The surrounding neighborhood consists of detached single-family housing on larger lots, while the proposed development provides attached single-family housing on smaller lots. As such, the proposed project increases the diversity of housing types in the

area. The applicant has addressed how the proposed townhomes are compatible with existing housing in the narrative provided above.

FINDING (17&18): SATISFIED. The proposal includes different building types with hip and gable roof forms. There are variations between the townhouse buildings and the units which comprise each building.

19. Ensure that new commercial and industrial campus development creates a welcoming and visible interface with Three Mile Lane.

FINDING: NOT APPLICABLE. This project is not commercial or industrial campus development.

20. Encourage site design and architecture that visibly convey the historic or current industry on the site (e.g., aviation, wine-making).

APPLICANT'S RESPONSE: The submitted Building Elevations demonstrate that the proposed structures include the use of board and batten siding, which was historically used on agricultural structures.

FINDING: SATISFIED. Townhouse developments limit the site design component due to the common wall lot and building layout The buildings incorporate board and batten siding which has historically been used in agricultural buildings.

21. New commercial, mixed-use, office, and industrial campus development should consider using local materials for cladding and building structure (timber, corrugated steel cladding, red brick), and incorporating vibrant color.

FINDING: NOT APPLICABLE. The proposal doesn't include these uses.

22. Public safety services shall be considered as part of the master planning, including access, response times, and opportunity for substations if needed.

FINDING: SATISFIED WITH CONDITIONS. While this policy appears to address larger master planning aspects of Three Mile Lane, this application has been reviewed by the Fire Marshal, and the site development will need to be consistent with applicable fire codes.

23. Ensure that no incompatible heavy industrial uses are allowed along Highway 18 in the Three Mile Lane Area or as part of the Innovation Campus.

FINDING: NOT APPLICABLE. No industrial use is proposed.

24. Significant natural features shall be inventoried and protected as much as possible within new development plans.

FINDING: SATISFIED WITH CONDITIONS. The plans show the heavily treed riparian area and floodplain and trees above the top of bank. The majority of those trees are to be retained, and a 60-foot setback is proposed from top of bank.

ZONING ORDINANCE

Chapter 17.11. Residential Design and Development Standards...

Attachments: Attachment 1 – Applications and Attachments, 2 – December 7 Staff Memo, 3 – December 7 Submittal from Andrey Chernishov, 4 – December 7 Submittal from Joe Strunk, 5 – Geotechnical Report Addendum #1 from Strata Design

FINDING (Section 17.11.090, Residential Design and Development Standards: Townhouses, and 17.11.100 Universal Design Standards): SATISFIED WITH CONDITIONS. Section 17.11.012 provides the Introduction to Housing Types. Townhouses are a permitted use in the R-4 zone, subject to the standards in Section 17.11.070 of the Zoning Ordinance and the Universal Design Standards in Section 17.11.100. Except as noted in these findings, the applicant is not requesting flexibility to these standards as part of the Planned Development and will submit plans in substantial compliance with the submitted proposal for building permit review.

FINDING (Section 17.11.110. Planned Development Residential Design and Development Standards). SATISFIED WITH CONDITIONS. Many of these standards repeat aspects of the Great Neighborhood Principles and are addressed through the findings regarding the Great Neighborhood Principles. The common open space provisions of Section 17.11.110(C)(3) and (4) need to be addressed relative to the size and design of the Tract A common open space, based on the buildable portion of the site, incorporated as a condition of approval.

Chapter 17.21. R-4 Zone.

FINDING (Chapter 17.21): SATISFIED. The property is subject to the provisions of the R-4 zone, as modified by the provisions of the Planned Development Overlay Ordinances. Townhouses are a permitted use in the R-4 zone. The R-4 zone specifies that density maximum may not apply to permitted housing types other than single attached dwellings, which shall not exceed four units per 5,000 square feet, with minimum lot size for townhouses averaging no less than 1,500 square feet per lot. average no more than 1,500 square feet in area.

Chapter 17.52. Airport Overlay Zone

17.52.030 General Restrictions. No use in the Airport Overlay Zone shall:

- A. Create electrical interference with navigational signals or radio communication between the airport and aircraft; or
- B. Otherwise endanger or interfere with the landing, takeoff, or maneuvering of aircraft intending to use the airport.

17.52.060 Horizontal Zone Restrictions. The following uses are prohibited in the Horizontal Zone: Any structure which exceeds a height greater than 309 feet above MSL except that a structure may be constructed to a vertical height no greater than 35 feet above the ground in the Eola Hills.

• • •

FINDING (Chapter 17.52): SATISFIED. The subject property is within the Airport Overlay Zone, which is comprised of several sub-areas. The subject property is within the Horizonal Zone. 17.52.030, General Restrictions, and 17.52.060, Horizonal Zone Restrictions, apply to the subject property.

The general restrictions of the Airport Overlay Zone will continue to be applicable to the property and the operation of the use since it is located within the Airport Overlay Zone. There is nothing related to the residential use or development that is expected to create electrical interference or otherwise endanger or interfere with the landing, takeoff, or maneuvering of aircraft intending to use the airport.

The proposed structures will not exceed a height greater than 309 feet above mean sea level (MSL). The published airport elevation is 163 above MSL, so a building exceeding 309 feet above MSL would be approximately 146 feet tall.

Chapter 17.54. General Provisions

Attachments: Attachment 1 – Applications and Attachments, 2 – December 7 Staff Memo, 3 – December 7 Submittal from Andrey Chernishov, 4 – December 7 Submittal from Joe Strunk, 5 – Geotechnical Report Addendum #1 from Strata Design

FINDING (Chapter 17.54): SATISFIED WITH CONDITIONS. This Chapter includes various provisions, including those regarding exceptions to building height, fences (recodified as MMC 8.10.210), yards, and clear vision areas. Fences within interior side and rear yards are limited to seven feet in height. Clear vision areas are to be maintained at driveway approaches and street intersections. A clear vision area shall contain no planting, fence, wall, structure or temporary or permanent obstruction exceeding three (3) feet in height, measured from the top of the curb or, where no curb exists, from three and one-half (3.5) feet above the edge of the pavement, or top of asphalt measured at the property line, except that the following may be allowed in a clear vision area.

- 1. Trees exceeding this height may be located in the clear vision area provided all branches and foliage are removed to a height of eight feet above the grade;
- 2. Telephone, power, and cable television pole, electrical junction boxes.
- 3. Government issued traffic safety signs.
- 4. Telephone switch boxes provided they are less than 10 inches wide at the widest dimension.

Chapter 17.57. Landscaping

FINDING (Chapter 17.57): SATISFIED WITH CONDITIONS. Landscape Plan Reviews are not required for Townhouse Lots. The applicant shall apply for Street Tree Plan approval and landscape plan approval for the common open space tract.

Chapter 17.58. Trees

17.58.080 Street Tree Planting - When Required. All new multi-dwelling development, commercial or industrial development, subdivisions, partitions, or parking lots fronting on a public roadway which has a designated curb-side planting strip or planting island shall be required to plant street trees in accordance with the standards listed in Section 17.58.090.

17.58.100 Street Tree Plans.

A. Submittal.

- 1. Subdivisions and Partitions: Street tree planting plans shall be submitted to the Landscape Review Committee for review and approval prior to the filing of a final subdivision or partition plat.
- 17.58.110 Street Tree Planting.
- A. Residential subdivisions and partitions.
 - 1. Planting Schedule: Street trees required of residential subdivisions and partitions shall be installed prior to submittal of a final subdivision plat or partition plat. As an alternative the applicant may file a surety bond or other approved security to assure the planting of the required street trees, as prescribed in Section 17.53.153.

FINDING (Chapter 17.58): SATISFIED WITH CONDITIONS. The applicant shall apply for Street Tree Plan approval and landscape plan approval for the common open space tract, addressing the requirements of 17.58,090 & 100.

Chapter 17.60. Off-Street Parking and Loading

Section 17.60.060.A. Spaces, Number required.

Residential land use categories

6. Middle housing: One space per dwelling unit

FINDING (Chapter 17.60. Off-Street Parking and Loading): SATISFIED. The proposal includes the required minimum parking. Garages are setback the required minimum 20 feet from the property line, and where sidewalks are within an easement rather than public right-of-way, garage setbacks are increased to be a minimum of 20 feet from the back of sidewalk.

Chapter 17.62. Signs

FINDING (Chapter 17.62. Signs): SATISFIED WITH CONDITIONS. No signs are currently proposed. As a condition of approval, the applicant shall separately submit any potential future application for a sign permit. The application will be reviewed for consistency with the applicable sign regulations of this Chapter and the specific provisions of the Planned Development Overlay Ordinance. Any sign permit application will also be reviewed for consistency with the provisions of Zone 1 of the Three Mile Lane Planned Development Overlay Ordinance.

ΤS

ATTACHMENT 2



December 22, 2023

Jason Flores Celtic Homes LLC Delivery via E-Mail: jason@celticbuilthomes.com 503.580.6422

RE: Geotechnical Report Addendum #1 Proposed Muti-Unit Memory Care Development 235 Dunn Street; McMinnville, Oregon

This document is intended to provide responses to the requested items that were recently issued to you by the City of McMinnville 3rd Party Geotechnical Engineer (GRI¹). Our response to the numbered items is as follows:

Item 1 - *The geotechnical reports and memorandums reviewed include seismic design parameters in accordance with the 2012 Oregon Structural Specialty Code (OSSC). Seismic parameters should be updated to reflect the current 2022 OSSC.*

<u>Response</u>: As a portion of Addendum #1 to our Report², the updated seismic parameters are as follows:

Seismic design criteria for this project will be based on the 2022 SOSSC and ASCE 7-16. Based on the results of our subsurface exploration, the site is classified as Site Class D. ASCE 7-16 Section 11.4.8 requires a ground motion hazard study in accordance with section 21.2 for structures on Site Class D sites with S₁ greater than or equal to 0.2 g, (S₁ at the site is 0.451 g. Exception 2 of the ASCE 7-16 section 11.4.8 indicates a ground motion hazard study is not required for structures on Site Class D sites with S₁ greater than or equal 0.2 g, provided the value of the seismic response coefficient C_s is determined by Eq. (12.8-2) for values of $T \ge 1.5T_s$ and taken as equal to 1.5 times the computed in accordance with either Eq. (12.8-3) for $TL \ge T \ge 1.5T_s$ or Eq (12.8-4) $T \ge TL$. We anticipate the buildings will meet these requirements, but if Exception 2 is not applicable, a ground motion hazard analysis will be required. We recommend the structural engineer evaluate these requirements and exceptions to determine if the parameters of Site Class D provided in Table 1 can be used for design or if a site-specific seismic hazard evaluation is required.

¹ Letter from GRI dated December 7, 2023: Third Party Review of Dunn Place Documentation, 235 NE Dunn Place, McMinnville, Oregon

² August 15, 2014, Report of Geotechnical Site Investigation, Prepared by Strata Design, Inc.

Seismic Design Parameters	Short Period	1 Second Period	
Seisine Design Furdineters	$(T_s = 0.2 \text{ second})$	$(T_1 = 1.0 \text{ second})$	
MCE Spectral Acceleration	$S_{s} = 0.904g$	S ₁ = 0.451g	
Site Class	D		
Site Coefficient	$F_{A} = 0.00$	F _V = 0.00	
Adjusted Spectral Acceleration	S _{ms} = 1.029g	S_{M1} = See Section 11.4.8	
Design Spectral Response Accelerations Parameters	S _{DS} = 0.686g	S _{D1} = See Section 11.4.8	

Table 1 - Seismic Design Parameters*

*The structural engineer should evaluate code requirements and exceptions to determine if these parameters can be used for design.

Item 2 - Geological/geotechnical hazards should be evaluated using current 2022 OSSC including review of dynamic slope stability. Sufficient factor of safety at the proposed building offset from the crest of the slope should be demonstrated.

<u>Response:</u> Included with this Addendum #1, STRATA completed an updated analysis of dynamic slope stability. We deem that the dynamic factor of safety achieved demonstrates that the slope setback criteria of 60-feet remains valid. The dynamic analysis included accounting for the conditions of pseudo-static (seismic), and the 100-year flood elevation level. The full analysis report is attached (Appendix A).

Item 3 - Slope stability analysis should confirm adequate factor of safety is achieved during an appropriate flood stage. Selected flood elevation should be clearly identified and referenced.

<u>Response</u>: Included with this Addendum #1, the updated analysis of dynamic slope stability factored in flood elevations based on a 100-year elevation of 120 feet (NAD 88). The 1996 recorded flood level was about 110-feet (NAD 88). The top of the river bank is around Elevation 160 feet (NAD 88).

Item 4 - Planned grading and development should be reviewed to confirm validity of original assumptions regarding slope stability and potential impacts to global stability from the planned development.

<u>Response:</u> Included with this Addendum #1, STRATA has fully reviewed of the updated development plan. The current plan shows that the structure nearest to the concave zone of the river is actually offset from the crest of slope by about 80 feet. In the previous iteration (2017) iteration for development, this distance was less at about 60 feet.

There is one structure which is about 60 feet from the crest, however it is also perpendicular to a straight section of the Yamhill River, whereas the outside curve or concave area of bank is downstream of this.

Item 5 - Geotechnical report should clearly identify recommendations concerning suitability of infiltration and surface stormwater discharge.

<u>Response</u>: Included with this Addendum #1, STRATA is advising that, to the extent practical, stormwater from the roof and street areas be retained in a lined facility, with a pipe overflow on to the street curb, or stormwater main pipe (if one exists). If this is not possible, then we advise infiltration locations be at least 100-feet from the top of bank.

Item 6 - Geotechnical engineer of record should clearly identify the applicability of geotechnical recommendations provided in previous reports for the current planned use.

<u>Response</u>: Included with this Addendum #1, STRATA concludes that the remaining recommendations stated in our Report, with the exception of the above stipulations, should remain valid and applicable to current development plans.

Respectfully Submitted, Strata Design LLC



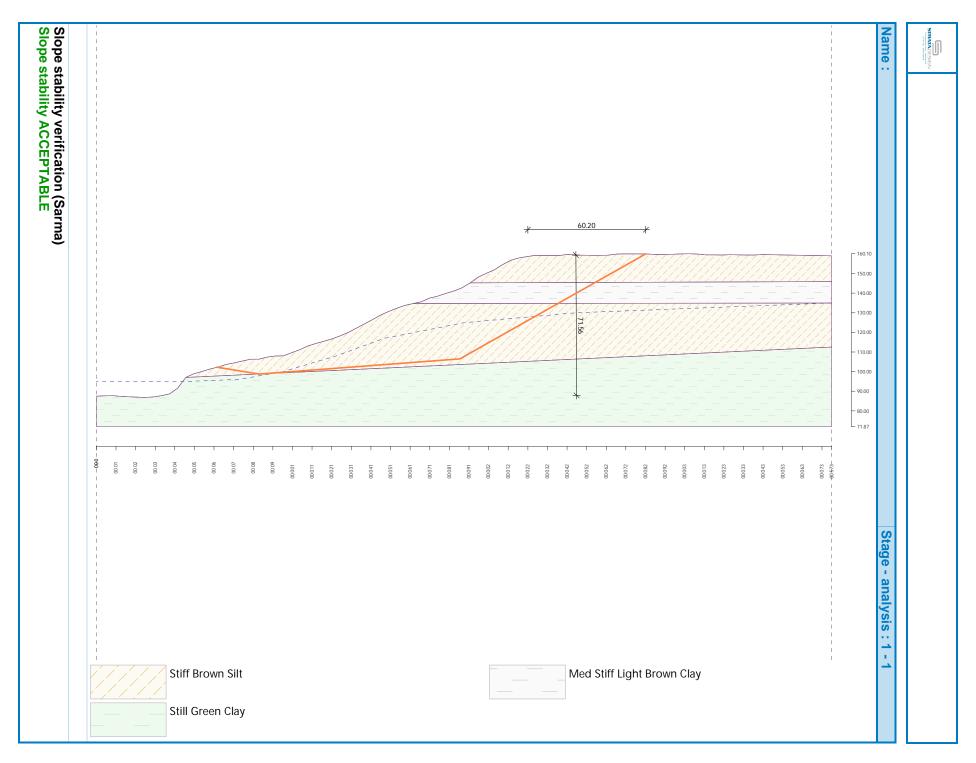
Exp: 6/30/25

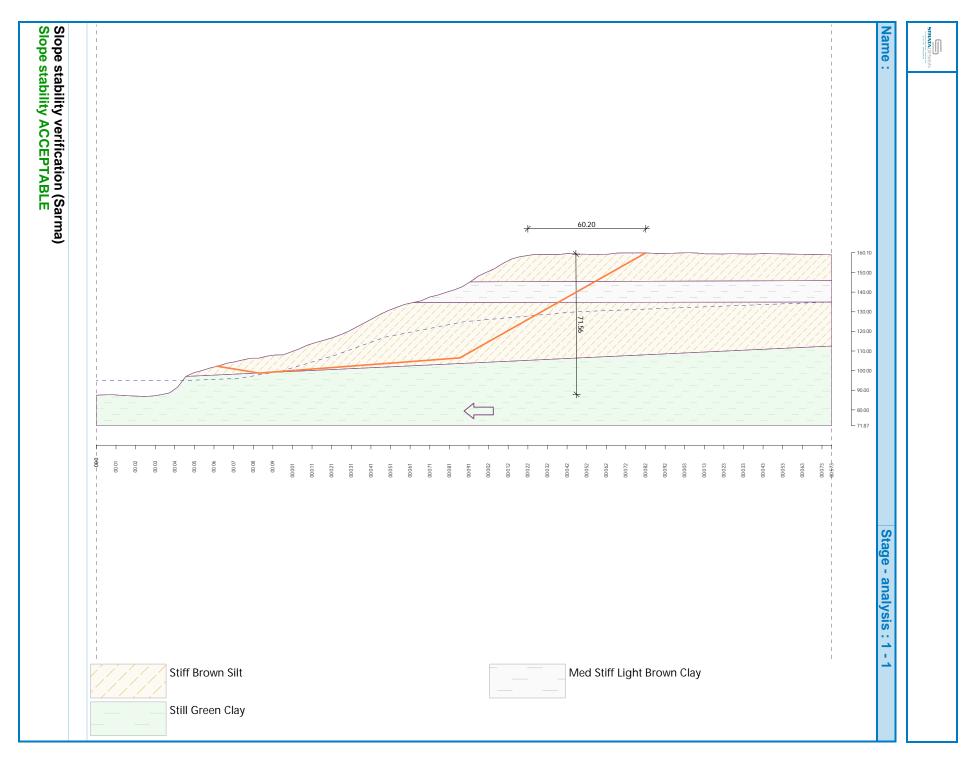
Name: Randall S. Goode, PE Title: Principal

Attachments

APPENDIX A.1: STATIC & DYNAMIC ANALYSIS OF SLOPE NON FLOOD CONDITION







APPENDIX A.2 : SLOPE STABILITY ANALYSIS - WITH FLOOD CONDITION



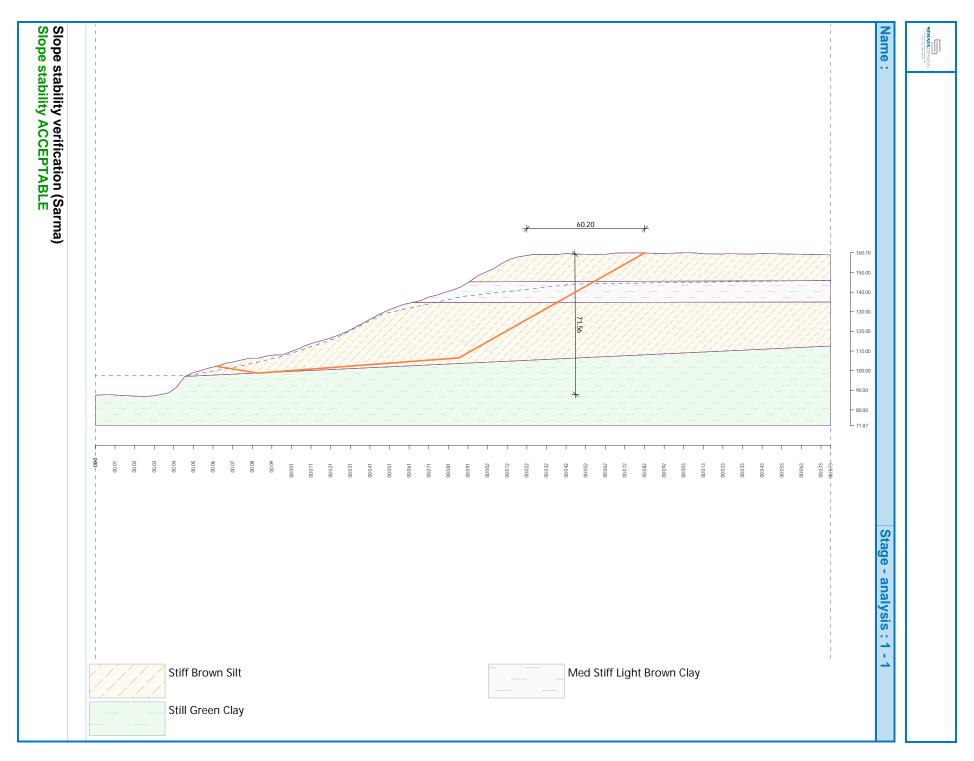




EXHIBIT 3 - STAFF REPORT

DATE:January 4, 2024TO:Planning Commission MembersFROM:Tom Schauer, Senior PlannerSUBJECT:Public Hearing: G 1-22. Fox Ridge Road Area Plan

STRATEGIC PRIORITY & GOAL:



HOUSING OPPORTUNITIES (ACROSS THE INCOME SPECTRUM) Create diverse housing opportunities that support great neighborhoods.

Report in Brief:

This agenda item is a legislative public hearing to consider a comprehensive plan amendment adopting the Fox Ridge Road Area Plan as a supplemental document to the McMinnville Comprehensive Plan.

The Planning Commission makes a recommendation to the City Council.

Background:

Context

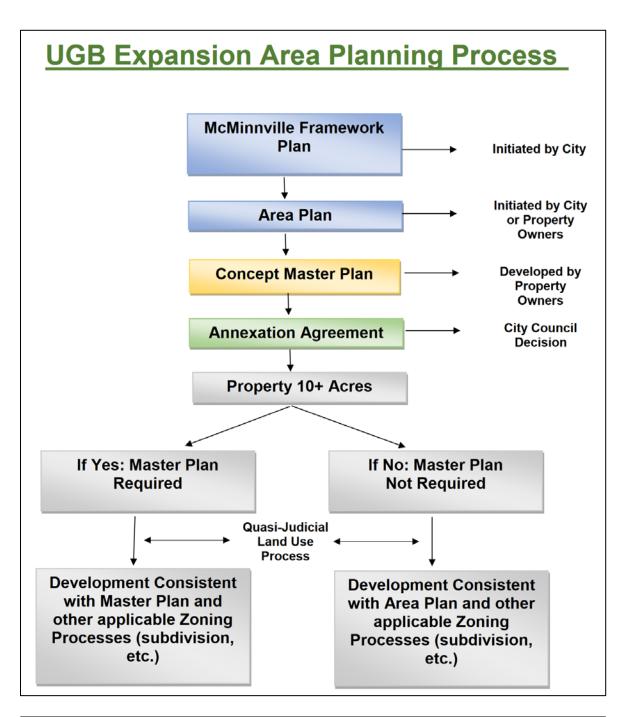
In December 2020, the City and County adopted the McMinnville Growth Management and Urbanization Plan (MGMUP). The plan was acknowledged by DLCD in April 2021.

The Plan included an amendment to the Urban Growth Boundary and amendments to the Comprehensive Plan and Zoning Ordinance. The plan included new policies and regulations guiding the process for planning for future urbanization of the unincorporated areas of the UGB.

Appendix G of the MGMUP includes the Framework Plan and outlines the Area Planning process.

https://www.mcminnvilleoregon.gov/sites/default/files/fileattachments/planning/page/19961/app endix_g_-_framework_plan_final_12.8.2020.pdf

The Framework Plan provides an overview of, and high level concept plan of, how the overall future land needs would be met among the different UGB expansion areas. The section outlining the Area Planning Process describes the three successive levels of planning for the UGB areas:





The updated policies in Chapter IX (Urbanization) of the Comprehensive Plan outline three successive levels of planning for the UGB expansion areas: Section 187.60. UGB Expansion Area Planning Process, Section 187.70. Framework Plans, Section 187.80. Area Planning, and Section 187.90. Master Planning.

Chapter 17.10 of the Zoning Ordinance was also adopted as part of the MGMUP, establishing the provisions for the Area and Master Planning Process.

The City has already completed the following Proposals in the Urbanization Element of the Comprehensive Plan:

• 48.30 "Urban Holding" (UH) Zoning Map Designation. The City shall establish an "Urban Holding" (UH) zone, which may be applied to lands within the UH Comprehensive Plan Map designation. Lands within the UH Comprehensive Plan map designation may be annexed and rezoned to UH as an interim designation before urban zoning is applied, subject to completion of the master planning process consistent with an approved annexation agreement. (Ord. 5098, December 8, 2020)

Concurrent with and as part of the adoption of the MGMUP, the Urban Holding (UH) designation was established and applied to UGB expansion areas planned for more than one type of land use, including the Fox Ridge Road Area.

• 48.90 Annexation Process. The City shall update its annexation ordinance (Ordinance No. 4357) to reflect new statutory requirements and a process consisting of an annexation agreement with the City Council that includes a conceptual master plan but is not a land-use process. (Ord. 5098, December 8, 2020)

Title 16 of the Municipal Code was amended in 2021, aligning the annexation process with the applicable Area Planning and Master Planning process.

With the Fox Ridge Road Area Plan, the City is in the process of completing the first of the Area Plans for the UGB expansion areas, consistent with Proposal 48.10:

- 48.10 The City shall complete and adopt Area Plans for the following areas as described in the McMinnville Growth Management and Urbanization Plan:
 - 1. Southwest Area Potentially with subareas:
 - a. West Hills South, Southwest 2, and West of Old Sheridan Road (potentially also including Redmond Hill Road)
 - b. Southwest 06 and Old Sheridan Road
 - 2. Fox Ridge Road, NW-EX1b-R1, and High School Site
 - 3. Riverside South
 - *4. Redmond Hill Road (potentially include with the Southwest Area Plan)*
 - 5. Booth Bend Road
 - 6. Riverside North (Ord. 5098, December 8, 2020)

The Fox Rodge Road Area and Framework Plan

Area Plans are to be consistent with the Framework Pan, with the Area Plan for each area providing a higher level of detail than the conceptual Framework Plan.

The Fox Ridge Road Area is an area of approximately 230 acres located in the western portion of the UGB west of Hill Road including the areas north and south of Fox Ridge Road and contiguous properties fronting Hill Road in the vicinity of the roundabout at Wallace Road. The area has a Comprehensive Plan designation of Urban Holding (UH). With the exception of a 42-acre site owned by the School District, which is already within City limits, the remainder of the area is unincorporated.

The following illustrative map from the Framework Plan provides a high-level concept of key elements for the planning of the Fox Ridge Road Area.



Fox Ridge Road Area as shown in MGMUP Framework Plan:

The Framework Plan also summarizes the potential assignment of land needs among the different UGB areas, as shown below:

Potential Assignment of Land Need:

Land Need		Southwest	Fox Ridge Road	Riverside South	Redmond Hill Road	Booth Bend Road	Riverside North
Residential							
R-5	36						
	acres						
Parks							
Neighborhood	88.11						
Park	acres						
Community Park	58.84						
	acres						
Greenways/Natural	106.81						
Areas	acres						
Schools	43						
	acres						
Commercial	39.3						
	acres						
Industrial	Surplus						

The Framework Plan further provides this summary for the Fox Ridge Road Area:

The Fox Ridge Road Area Plan should include the three study areas in this area due to their close proximity and future relationship between uses. These areas include the Fox Ridge Road study area (included in the UGB during MGMUP Phase I), the NW-EX1b-R3 study area, and the future High School site owned by the McMinnville School District (included in the UGB through previous UGB expansion).

The Fox Ridge Road Area Plan will primarily be housing. However the Fox Ridge Road Area Plan will include a significant land use within the site that is owned by the McMinnville School District and identified for the development of a future high school. The high school site will be within the northern portion of the Fox Ridge Road Area Plan. The Fox Ridge Road Area Plan should also provide an opportunity for a partial or half of a Neighborhood Activity Center (NAC) along the area's Hill Road frontage between the Wallace Road roundabout and the intersection of Fox Ridge Road. This modified and reduced NAC should be approximately 5 – 10 acres, with approximately 1 - 2 acres of neighborhood serving commercial and office development, approximately 2 acres of high density residential development (R-5), and approximately 2 – 5 acres of medium density residential housing. The remainder of the residential land within Fox Ridge Road Area Plan will likely be suitable for lower density residential housing, where the lands begin to exhibit steeper slopes within the southern and western portions of the Fox Ridge Road area.

To further provide services to support this residential area and to accommodate the park land need identified in the MGMUP, the Fox Ridge Road Area Plan should incorporate one neighborhood park of approximately 3 - 5 acres in size. The neighborhood park should be placed to ensure that every residence is within a ½ mile of a neighborhood park, and due to slopes should likely be placed in the northern portion of the area. The Fox Ridge Road Area also includes a several natural and geographic features that provide an excellent opportunity for a natural resource community park. Natural greenspaces or greenways should be considered that could connect the Fox Ridge Road Area to the West Hills and Redmond Hill Road area, potentially in the form or a ridgeline greenway/greenspace. A greenway/greenspace could also serve to preserve the tree stands in the Fox Ridge Road and West Hills areas that currently provide habitat for protected avian species.

Connectivity and coordination with the development of the high school site will be important in the Fox Ridge Road Area Plan. Land uses should anticipate the development of this major community feature, and land uses should transition appropriately to surrounding areas. Any trail networks considered should incorporate connectivity to the high school site. Bike and pedestrian connectivity should also be considered in the Area Plan, with consideration of connecting to the existing trails and linear parks (BPA and Westside trail systems) that are located just east within the existing UGB and may be able to be linked via Wallace Road.

Fox Ridge Road Area Planning Process

The City initiated work on the Fox Ridge Road Area Plan in 2022, issuing an RFP and entering into a contract for planning services with a multi-disciplinary team led by HHPR. The work plan and public engagement program were established.

The City advertised for members to serve on a Project Advisory Committee (PAC), and members were appointed by the City Council, including all property owners and residents within the Fox Ridge Road Area that applied, in addition to other members. The City also established a Technical Advisory Committee (TAC). The PAC met six times between December 2022 and November 2023, and also debriefed following the community design workshops.

The broader public engagement process included a community survey, stakeholder/topical interviews, two community design workshops, social media outreach, and information provided at a booth at the Community Fair.

Work sessions were also held with the Planning Commission, City Council and School Board, including a joint City Council/School Board Work Session and a joint City Council/Planning Commission Work Session.

At its November 29, 2023 meeting, the Project Advisory Committee recommended approval of the Fox Ridge Road Area Plan, incorporating revisions to the draft based on input provided at the October 18, 2023 joint work session of the Planning Commission and City Council.

Notice of the proposal and the January 4, 2023 legislative Planning Commission public hearing was submitted to DLCD in accordance with the requirements for a "Notice of Proposed Amendment" for a Post-Acknowledgement Plan Amendment. Notice was also mailed to property owners with the Fox Ridge Road Area. Notice with a request for comments was also provided to agency partners.

Additional background information and more detailed information regarding the planning process is provided in the attached Fox Ridge Road Area Plan.

Discussion:

The Fox Ridge Road Area Plan, attached as Attachment 1, includes an Executive Summary followed by five major parts, plus appendices: 1. Introduction, 2. Existing Conditions, 3. Community Engagement and Plan Development, 4. The Fox Ridge Road Area Plan, and 5. Implementation. The substantive provisions of the plan are provided in Part 4 and include the Plan Narrative, the Vision, Goals, and Policies, and the Area Plan Map.

The narrative is a key element of the plan, providing key information regarding the future development and the application of the Vision, Goals, and Policies and the Plan Map.

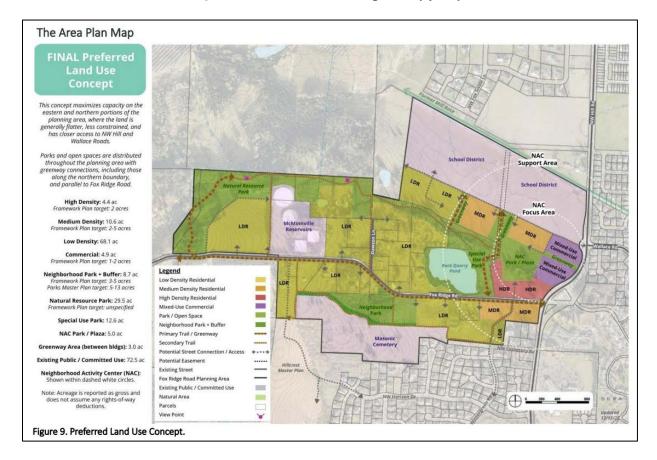
The Vision, Goals, and Policies are organized in the context of the City's adopted Great Neighborhood Principles, to be used as evaluation criteria for future land use and development decisions.

The plan map summarizes the land use elements of the plan, and demonstrates consistency with the Framework Plan. The plan includes a partial Neighborhood Activity Center (NAC) with planned land uses including commercial/mixed-use, high-density and medium density residential, and an NAC park/plaza within the Focus Area and Support Area of the NAC, with Low-Density Residential extending outward from the NAC Focus and Support Areas.

The plan also identifies planned park, open space, greenway, and trail elements, interconnected with green spaces which also correspond with natural features and scenic views. A centrally-

located neighborhood park site is identified which is located within one-half mile of the properties in the Fox Ridge Road Area, with buffering of more active recreation areas from the cemetery. A special use park is identified around the existing quarry pond, and a natural resource park is identified at the west end of the area, corresponding with identified natural features and views.

The plan map and land use summary calculations demonstrate the plan meets or exceeds the minimum requirements for identified land needs and applicable levels of service consistent with the City's adopted planning documents. *See enlarged copy in plan document.*



Adoption of the plan doesn't rezone the properties in the Fox Ridge Road Area. Property owners within the area can continue to use their properties in accordance with the applicable county zoning and land use regulations that currently apply, unless/until such time as they request annexation and are annexed into the City consistent the updated annexation process, at which time they will need to comply with City land use regulations if they choose to further develop.

In conjunction with future requests for annexation and development, property owners would need to obtain rezoning and comply with the master planning process, as outlined in the updated annexation procedures, to demonstrate the proposal for their property/ies would be consistent with the Area Plan and other adopted policies. Those applications would be subject to applicable requirements for post-acknowledgement plan amendments, and would need to include applicable findings.

Agency Comments:

The City coordinated with agencies and departments over the course of the Fox Ridge Road area planning process, including a Technical Advisory Committee with department representatives.

Comments were also solicited from agencies regarding the proposed plan for this formal land-use hearing public process. Agencies and departments on the City's land use notification list were notified of the proposal. The following comments were received:

Yamhill County Planning

County Planning noted a discrepancy on one aerial photo map regarding the location of the outline shown for the Urban Growth Boundary. Staff responded, noting this was a scrivener's error, that no UGB amendment is proposed with this Area Plan, and the mapping error will be corrected on that map.

Fire District

The Fire District responded that they have no comments.

Comcast

Comcast responded that they have no comments.

Oregon Department of State Lands (DSL)

Comments from the Oregon Department of State Lands are attached as Exhibit 2. At the time of future land use applications for development proposals for individual properties that would occur upon annexation, notification is provided to DSL, and property owners are responsible for delineating wetlands and complying with applicable wetland law. Staff has provided a map as Exhibit 2a to provide context regarding DSL's comments. The map has an overlay showing the resources mapped in the State Wetlands Inventory (SWI) relative to the Fox Ridge Road area. While there may be resources that aren't mapped on the SWI, the mapped resources are predominantly the pond features and drainages extending to the north as well as the mill race along the north boundary of the School District property.

Attachments:

- Attachment 1. Three Mile Lane Area Plan, December 2023
 - Appendix A. Document Review and Existing Conditions Report
 - Appendix B. Online Survey Results Summary
 - Appendix C. Community Design Workshop Summaries
 - Appendix D. Project Advisory Committee Meeting Summaries
 - Appendix E. Market Analysis
 - Appendix F. Transportation Analysis
- Attachment 2. Comments from DSL/Staff Response
- Attachment 2a. Map with SWI Overlay on Fox Ridge Road Area

Recommendation/Suggested Motion:

Consistent with the recommendation of the Project Advisory Committee, staff recommends that the Planning Commission make the following motion recommending approval of the Fox Ridge Road Area Plan, Docket G 1-22, to the City Council:

"I MOVE THAT THE PLANNING COMMISSION RECOMMEND THAT THE CITY COUNCIL AMEND THE MCMINNVILLE COMPREHENSIVE PLAN BY ADOPTING THE FOX RIDGE ROAD AREA PLAN, DOCKET G 1-22, AS A SUPPLEMENTAL DOCUMENT TO THE MCMINNVILLE COMPREHENSIVE PLAN."



FOX RIDGE ROAD AREA PLAN

DRAFT | DECEMBER 2023

ATTACHMENT 1

ACKNOWLEDGEMENTS

City Council

Remy Drabkin – Mayor, City of McMinnville Adam Garvin – Council President, Ward 3 Chris Chenoweth – Councilor, Ward 1 Sal Peralta -- Councilor, Ward 1 Kellie Menke – Councilor, Ward 2 (PAC Liaison) Zack Geary – Councilor, Ward 2 Jessica Payne – Councilor, Ward 3

Planning Commission

Sidonie Winfield – Chair Gary Langenwalter – Vice Chair (PAC Liaison) Brian Randall Megan Murray Beth Rankin Dan Tucholsky Rachel Flores Sylla McClellan (PAC Liaison) Matthew Deppe

Project Advisory Committee

Sara Tucholsky – Chair Sid Friedman – Vice Chair Jim Culbert Malcolm Greenlees Sam Justice Ellen Kersting Allan Larsen Stephen Leonard Denise Murphy Miriam Peterson Sean Rauch Brian Ruden Steve Ryan Peter Van Patten

Project Management Team

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Consultant Team

Harper Houf Peterson Righellis, Inc. SERA Architects, Inc. DKS Associates Johnson Economics

EXECUTIVE SUMMARY

The Fox Ridge Road Area Plan is intended to recognize the unique attributes of the Fox Ridge Road Area and guide future development through a vision and plan for a cohesive neighborhood within the study area. The Area Plan is a guiding land use document adopted as a supplement to the Comprehensive Plan.

The plan is organized into the following chapters:

Part 1. Introduction. This chapter summarizes the framework, basis, and requirements for conducting the area plan. This includes a summary of the area planning process and background information on the area.

Plan Purpose and Requirements. Comprehensive Plan Policies 187.60.00 – 187.90.40 outline the planning process UGB expansion areas, with the three successive steps of a Framework Plan, Area Planning, and Master Planning. This planning process guides the transition from unincorporated rural lands through annexation and urban development. Further detail is provided in the McMinnville Growth Management and Urbanization Plan (MGMUP) and the Zoning Ordinance.

The land uses in the Area Plan must be consistent with the Framework Plan and the identified land need for the UGB expansion area. Area Plans more specifically identify land uses, their locations, and their relationship to public facilities, natural resources, and existing urban uses.

Part 2. Existing Conditions. This chapter includes data that informs the planning of the Fox Ridge Road area. It includes a summary of plans, policies, and regulations applicable to the area plan; a summary of existing physical features, attributes, and assets in, or affecting, the planning area; information regarding public facilities and services; and synthesis and analysis of this data to provide context regarding potential issues, and opportunities and constraints that informed development of the area plan. This information was supplemented with information obtained through the community engagement work described in Part 3.

Traffic analysis and market analysis are provided in Part 3. While these assess and analyze existing conditions, they also address future forecast conditions that inform the plan, and also provide guidance used to evaluate the plan and identify potential issues associated with the different alternatives.

Part 3. Community Engagement and Plan Development. This chapter summarizes the community engagement process and plan development. The project is guided by a Project Advisory Committee appointed by City Council. At key stages of the project, information was shared with the community and input was obtained to identify issues, develop goals and polices, develop and evaluate alternatives, and select and refine a preferred alternative. Work sessions were also conducted with the Planning Commission and City Council, including a joint work session with the School Board. The results of those broader outreach efforts were part of an iterative process with the Project Advisory Committee obtaining input and guidance at key decision-making points in the process.

Part 4. Fox Ridge Road Area Plan. This chapter presents the final plan that was developed through the community engagement and plan development process.

The Plan Narrative. The plan narrative provides context for the plan and provides additional information to help understand the Vision, Goals, and Policies and the Area Plan Map, their relationship, and the context of the Area Plan to other planning documents and efforts.

The Vision, Goals, and Policies. The goals and policies were developed based on input received through the public process. These goals and policies refine and apply the Goals and Policies of the Comprehensive Plan and its supporting documents, to address the unique geographic area and characteristics of the Fox Ridge Road area. This Chapter includes goals and policies for the Fox Ridge Road area in the context of the Great Neighborhood Principles adopted as Polices 187.10-187.50 of the Comprehensive Plan.

This component of the plan addresses the vision for the area, relationships between land uses as part of a cohesive neighborhood, and Urban Design objectives to be achieved through the Area Plan and future Master Plans and development.

The Area Plan Map. The Area Plan Map addresses the Framework Plan in detail, more specifically identifying land uses, their locations, and their relationship to public facilities, natural resources, and existing urban uses. In addition to the map, the elements and attributes of the map and their relationships are also discussed in this chapter.

Part 5. Implementation. The plan will predominantly be implemented by following existing adopted procedures and standards. As individual property owners within the area choose to seek annexation to the City and development of their properties, they will follow the adopted procedures in Title 16 of the McMinnville Municipal Code and Chapter 17.10 of the Zoning Ordinance as applicable.

That process specifies the process for a property owner to apply for annexation, enter into an annexation agreement, prepare a master plan for the property, which is consistent with the area plan, obtain land use approvals for proposed development, and complete the annexation process.

Development will need to meet adopted City standards for development and land divisions, so it isn't necessary to create an entirely new set of development standards for the area, but unique issues applicable to the Fox Ridge Road area are identified in this plan that provide special guidelines and standards desired for the Fox Road area.

In addition, the implementation element identifies issues that may need to be addressed and coordinated through broader planning processes, such as the updates to the Transportation System Plan, and public facility plans.

Appendices. The appendices provide more detailed information regarding the information provided in the chapters of the plan. They are referenced at key points in this plan. They include more detailed existing conditions information, technical information, and summaries of the public engagement activities.

FOX RIDGE ROAD AREA PLAN

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List of Appendices

- Appendix A: Document Review and Existing Conditions Report
- Appendix B: Online Survey Results Summary
- Appendix C: Community Design Workshop Summaries
- Appendix D: Project Advisory Committee Meeting Summaries
- Appendix E: Market Analysis for High Density Residential and Commercial Uses
- Appendix F: Transportation Analysis: Existing and Future Conditions

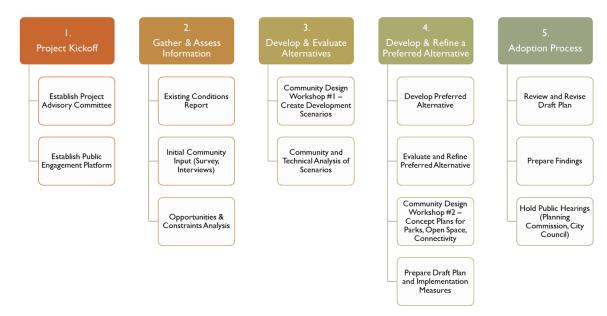
Part 1: Introduction

Purpose

The purpose of this Area Plan is to guide and support the annexation and future urbanization of the Fox Ridge Road Area. As specified in the McMinnville's Comprehensive Plan and Framework Plan, the Fox Ridge Road Area Plan will provide a mix of residential, commercial, and civic or institutional uses while emphasizing parks, trails, and connectivity for a well-designed and connected neighborhood consistent with the Traditional Neighborhood model and Great Neighborhood Principles.

Planning Process

The Fox Ridge Road area planning process began in December 2022 with the establishment of the Project Advisory Committee (PAC) and the development of a plan for public engagement. The City advertised the opportunity to serve on the PAC, and the PAC was then appointed by the City Council. The process has since been guided by the Project Advisory Committee, with 14 members of the public, a City Council Liaison, and two Planning Commission Liaisons. The Project Advisory Committee includes a variety of interested parties which also includes representatives from the Fox Ridge Road area including residents, property owners, developers, and local neighboring residents. In addition to the Project Advisory Committee, key stakeholders were interviewed including the potential developer of the Neighborhood Activity Center, representatives from various public utilities, the Oregon Department of Fish and Wildlife, and the McMinnville School District.



The area planning process also included a variety of community engagement and outreach activities to gather feedback. These opportunities for community members to provide their input included public participation at Project Advisory Committee meetings, in-person community design workshops, and an online survey. The City of McMinnville promoted these engagement opportunities through social media and newspaper ads, on the City website, and a City outreach booth, and provided updates for further involvement at each of these meetings. The City has worked closely with key stakeholders, property owners, local service providers, and the community to continuously gather valuable feedback through the area planning process.

Background

In 2020, the City of McMinnville adopted the McMinnville Growth Management and Urbanization Plan (MGMUP) on December 8th as part of the Comprehensive Plan and amended its urban growth boundary (UGB). The MGMUP amended McMinnville's UGB by 924 gross buildable acres, with most of this acreage placed into an Urban Holding (UH) comprehensive plan designation. All land within a UH comprehensive plan designation must undergo an area planning process prior to annexation into the city limits, rezoning, or urban development. The City of McMinnville has committed to investing and processing one area plan each year. The first area plan initiated by the City is the Fox Ridge Road Area Plan. The Fox Ridge Road Area is known as the area around Fox Ridge Road, and includes the potential future high school site owned by the McMinnville School District (see Figure 2). Collectively, the Fox Ridge Road study area is comprised of approximately 230 acres.



Figure 1. Study Area Context

The Fox Ridge Road Area Plan is expected to be primarily zoned for housing. However, the Area Plan includes a significant land use within the site that is owned by the McMinnville School District, located within the northern portion of the study area. This school district site is currently identified for the development of a future high school. The area planning process accounts for the connectivity and coordination with the future development of the high school site. Per the MGMUP Framework Plan, the Fox Ridge Road Area Plan will also provide an opportunity for a small Neighborhood Activity Center (NAC) along the area's NW Hill Road frontage between the Wallace Road roundabout and the intersection of Fox Ridge Road. This partial NAC aims to provide neighborhood serving commercial and office development, high-density residential development, and medium-density residential housing. The remaining residential land of the Fox Ridge Road study area is suitable for low-density residential housing, specifically within the southern and western portions where the topography exhibits steeper slopes. In order to support this newly developed residential area and provide further services, the Fox Ridge Road Area Plan will incorporate one neighborhood park located within a ½ mile distance from all residences in the study area. The plan will also include a natural resource park to preserve existing natural features, along with a greenway system for bike and pedestrian connectivity throughout the study area and with connectivity of the Fox Ridge Road area to other areas.

Part 2: Existing Conditions

Regulatory Context and Planning Framework

The Fox Ridge Road Area Plan will be adopted as a supplement to the McMinnville Comprehensive Plan and adopted by the City Council as a guiding land use document. The Area Plan document, along with the final land use concept, embodies the development principles of the Comprehensive Plan, including the MGMUP, MGMUP Framework Plan, McMinnville Comprehensive Plan Goals and Policies, and other applicable City land use policies and standards. The MGMUP provides guidance for the planning and development of fully integrated, mixed-use, pedestrian-oriented neighborhoods. The final land use concept will help guide future development patterns and is expected to be consistent with the:

- 1) **McMinnville Growth Management and Urbanization Plan:** The guidelines of the Traditional Neighborhood model, as described in the McMinnville Growth Management and Urbanization Plan.
- 2) **MGMUP Framework Plan:** Neighborhood Activity Centers (NACs) to meet neighborhood commercial land needs as identified in the MGMUP Framework Plan, supports surrounding residential development, and provides opportunities for open space, parks, and trails.
- 3) **McMinnville Comprehensive Plan:** Including the City's adopted Great Neighborhood Principles, as described in Comprehensive Plan Policies 187.10 through 187.50.
- 4) Parks, Recreation and Open Space Master Plan: The City's Parks and Recreation vision and facility guidelines.



Figure 2. Fox Ridge Road Area Map



McMinnville Growth Management and Urbanization Plan

Traditional Neighborhood Model Guidelines

As highlighted in the MGMUP, McMinnville's plan for urbanization is modeled around the planning and development of a "traditional neighborhood," designed to be fully integrated, mixed-use, and pedestrian oriented. This type of development includes narrower streets that emphasize pedestrian orientation and scale, highly connected street patterns with small blocks or grids, streets lined with trees and sidewalks on both sides, and diverse housing types and lot sizes that are intermixed throughout the neighborhood. Uses and housing types are mixed and in close proximity to one another, with public spaces such as neighborhood parks or plazas serving as focal points for community interaction. As an essential feature, the McMinnville model for a traditional neighborhood calls for a neighborhood activity center at the heart of the neighborhood identity. The concept of a traditional neighborhood aims to minimize traffic congestion, suburban sprawl, infrastructure costs, and environmental degradation.

To be consistent with the MGMUP, the Fox Ridge Road Area Plan follows the guidelines set forth for the development of a traditional neighborhood model. Key considerations for the study area include mixed-use planning that integrates diverse commercial and residential developments, pedestrian oriented and connected streets, and public green spaces as social gathering opportunities. A neighborhood activity center is expected be a focal point of the study area. The McMinnville Zoning Ordinance defines a Neighborhood Activity Center as, "a physically and aesthetically unified area, that serves as the center of a larger surrounding neighborhood, where all elements and land uses are designed to function as an integrated whole (rather than as a series of unconnected, unrelated developments). Neighborhood Activity Centers consist of a Focus Area with commercial, institutional, office uses, and other mixed-use activities needed to support a specified geographic area. These centers also may include a Support Area with high-and medium-density residential uses that supports the non-residential uses in the center."

McMinnville Framework Plan

Neighborhood Activity Centers (NACs)

The MGMUP emphasizes Neighborhood Activity Centers as the most critical element of the City's growth management and land use plan. Surrounding the neighborhood activity center are residential uses with the highest-density housing developments that progressively decrease in density outward from the activity center. According to the MGMUP Framework Plan, the Neighborhood Activity Center should:

- o provide local context with the ability to foster the development of a traditional neighborhood;
- have the ability to accommodate higher intensity development and be strategically located based on the proximity to vacant buildable land;
- be located at major street intersections with their service areas extending to a group of neighborhoods ranging from a one to three-mile radius.

Focus Area of the activity center should contain facilities necessary for day-to-day activity (such as personal services, grocery and convenience shopping, schools, places of worship, limited office space, public plazas or parks) and ideally be located within close proximity to one another in the focus area so that all essential services for the subarea are easily accessible in a single stop.

Support Areas that surround the activity center's focus area should contain the neighborhood's high- to medium-density housing options and enables the highest concentration of population to easily access the focus area within walking distance (reducing the number of automotive trips for daily needs or services and allows for a single transit stop to serve the shops, services, and adjacent higher-density housing in the area).

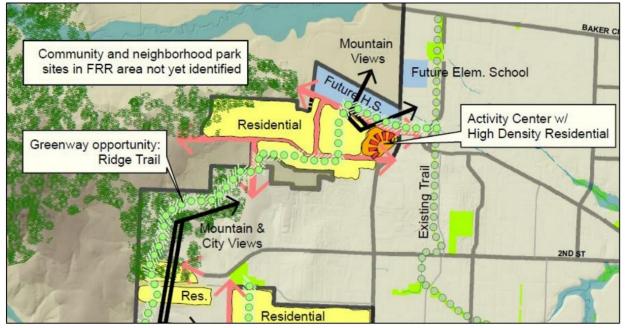


Figure 3. MGMUP Framework Plan Map

Shown in the MGMUP Framework Plan, the Fox Ridge Road Area Plan provides an opportunity for a partial Neighborhood Activity Center. The modified and reduced activity center will be approximately 5 - 10 acres, with approximately 1 - 2 acres of commercial and office development to serve the neighborhood, approximately 2 acres of high-density residential development (R-5), and approximately 2 - 5 acres of medium density residential housing. This mixed-use center is proposed to be located along the study area's NW Hill Road frontage between the Wallace Road roundabout and the intersection of Fox Ridge Road (see Figure 3). The remaining residential land of the Fox Ridge Road study area is suitable for lower density residential housing, specifically within the southern and western portions where the topography exhibits steeper slopes. The Fox Ridge Road Area Plan will incorporate one neighborhood park of approximately 3 - 5 acres in size located within a $\frac{1}{2}$ mile from all residences in the study area. The plan will also include a natural resource park to preserve existing natural features, along with a greenway system for bike and pedestrian connectivity throughout the study area. The location, uses, and accessibility of the neighborhood activity center ensures the Area Plan's consistency with the City's adopted Great Neighborhood Principles described in the MGMUP Comprehensive Plan.

MGMUP Comprehensive Plan

Great Neighborhood Principles

Adopted in 2019, the Great Neighborhood Principles are described by Comprehensive Plan Policy 187.10 as a means to guide the land use patterns, design, and development of the places that McMinnville citizens live, work, and play. These principles ensure the livability, accessibility, safety and beauty of all new development or redevelopment. In order for the Fox Ridge Road Area Plan to be consistent with these principles, Comprehensive Plan Policy 187.50 describes specific directions on how to achieve each principle as it refers to design, location and orientation of these necessary neighborhood resources. By following the model of a traditional neighborhood and planning around the centralization of a partial neighborhood activity center, the overall development of the area plan will likely achieve each individual principle.

(Please refer to Part 3: Community Engagement for the list of Great Neighborhood Principles.)

Parks, Recreation, and Open Space Master Plan

The City of McMinnville created and published its Parks, Recreation, and Open Space Master Plan in 1999 to meet the parks and recreational needs of the community, while ensuring natural resources crucial to the character of the City are protected and enhanced. The Park and Recreation Department holds a central role in shaping the changing character of the City, as recreational opportunities continue to build community and help encourage residents to achieve active, healthy lifestyles. As with the Parks Master Plan, the Fox Ridge Road Area Plan must plan for the City's population growth and increasing diversity. The Fox Ridge Road study area has its own existing unique natural features and opportunities for new parks and recreation services. The Fox Ridge Road Area Plan addresses the minimum Level of Service Standards of the Parks Master Plan as well as the minimum requirements in the MGMUP Framework Plan. The City is in the process of updating the Parks, Recreation, and Open Space Master Plan, and the work is proceeding in coordination among planning efforts, including the Fox Ridge Road Area Plan.

Local Context

The Fox Ridge Road study area is located west of NW Hill Road surrounding Fox Ridge Road and consists of approximately 230 acres, with about 30 existing parcels ranging in size from less than an acre to over 40 acres. The study area is characterized by its moderate to steeply sloping terrain, dense stands of mature trees, and the expansive views of the surrounding lands. The study area primarily consists of land zoned for agricultural and rural-residential use, with rural residential single detached homes that are situated to take advantage of the scenic views. There are several committed lands within the study area including the school district site, the water reservoir property owned by McMinnville Water and Light, and the Masonic Cemetery. Directly southwest of the study area is the Hillcrest Master Plan residential development, and about 0.5-mile north along Baker Creek Road is a new construction mixed-use development project with 144 residential units and 30,000 square feet of additional commercial space.

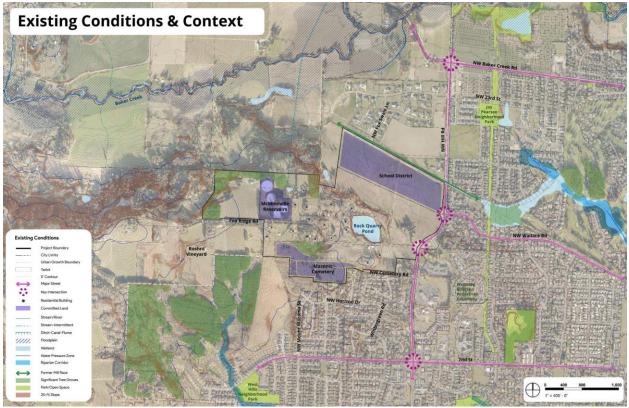


Figure 4. Existing Conditions and Context

Land Use and Zoning

Due to the existing topography of the study area, the large parcels along Fox Ridge Road are most suited for larger low-density residential properties, while the eastern portions of the study area are flatter and more suitable for potential mixed-use and medium- to high-density residential development. A 42-acre site on the north side of the study area is owned by the McMinnville School District and is currently identified for the potential development of a future high school. Per the Framework Plan, the partial Neighborhood Activity Center should be strategically located near the intersection of Fox Ridge Road and Hill Road to provide services and amenities to the diverse residential developments proposed within the study area.

The Fox Ridge Road study area is currently designated with the Urban Holding (UH) Comprehensive Plan map designation, except for the School District Property. Until properties are annexed into the City, they retain their current County rural zoning designations and the applicable County zoning and land use regulation continue to apply to these properties. The surrounding land uses include low-density residential (R-1 and R-2) zoning directly south and east of the study area, and additional medium-density, multiple-dwelling residential (R-4) zoning southeast of Fox Ridge Road. To the west and north of the study area are county zoned exclusive farmland (EF-80). The school district site is within City limits and is currently zoned R-4 PD (Planned Development), which permits public schools conditionally. The Planned Development ordinance applicable to the properties specifies its use for a school.

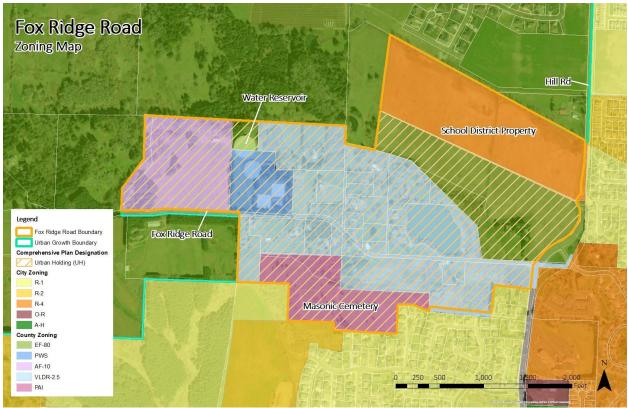


Figure 5. Zoning Map

Natural Features

Topography And Geotechnical Conditions

The City made initial findings describing the topography of the Fox Ridge Road study area within the MGMUP Phase 1 Expansion Land Study Areas of the Urbanization Report. Specifically, the majority of the study area consists of gradual to steeply sloping land, with some areas to the west exceeding a 15 percent slope. The lowest point of the study area is located in the southeast corner and sits at 287 feet above sea level (ASL), gradually increasing to the steepest slopes located in the west side of the study area and topping out at over 400 feet of elevation ASL.

Hazards and Natural Features

There are no floodplains identified within the study area. However, recent mapping conducted by the City of McMinnville to identify natural hazards and natural features in conjunction with Statewide Planning Goals 5 (Natural Resources) and Goal 7 (Natural Hazards) identified hazardous areas based on topographical conditions, significant tree groves, and scenic viewpoints along ridgelines to the north and south of Fox Ridge Road. The City is in the public hearing process for consideration of a proposed Natural Hazards Inventory and Management Program. This includes proposed overlay zones for Natural Hazard Mitigation (NH-M) Zones and Natural Hazard Protection (NH-P) Zones, which have been identified in the overlay map below. Areas identified with natural hazards have development constraints that will need to be considered along with the development standards of the underlying base zone. The conservation of natural greenspaces and greenways will serve to protect the dense stands of mature trees and provide habitat for protected avian species.

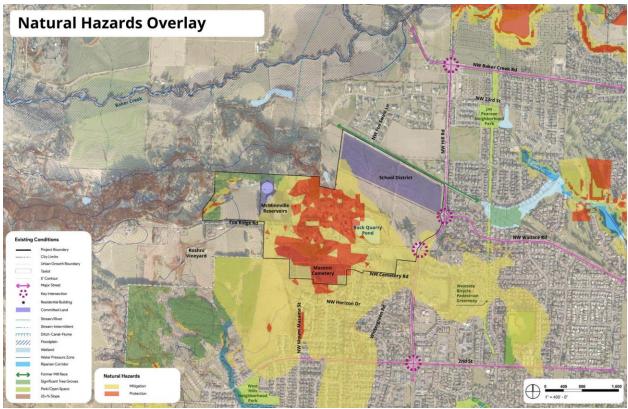


Figure 6. Natural Hazards Overlay.

Habitat Conservation and Wildlife

The Fox Ridge Road study area includes several existing natural and geographic features that provide an excellent opportunity to conserve and limit impacts from urbanization on the habitat and wildlife. Natural greenspaces or greenways will be considered to connect the Fox Ridge Road Area to the West Hills and Redmond Hill Road areas. This greenway/greenspace could also minimize impacts to the significant tree stands in the Fox Ridge Road and West Hills areas that currently provide habitat for protected avian species, such as the Western Bluebird, White-Breasted Nuthatch (Slender-Billed), and Oliver-Sided Flycatcher.

Other Natural/Limiting Features

Rock Quarry Pond

Large gravel quarry filled with water, centrally located within the study area near the base of Fox Ridge Road and adjacent to the location for the Neighborhood Activity Center. Currently serves as stormwater drainage and retention, providing supplemental irrigation to properties outside of the study area.

Masonic Cemetery

Occupies nearly 70 percent of the southern boundary of the study area. Must be protected in place and buffered from potential surrounding uses.

McMinnville Water and Light

Owns a large property near the center of the study area that houses four above-ground water reservoirs.

Infrastructure and Services

Transportation

Fox Ridge Road itself is a paved, county road with no sidewalks, curb, or gutter. The road extends westward from NW Hill Road providing the only current means of public vehicular access into the study area. Fox Ridge Road generally travels along the ridgeline that cuts east-west through the study area's midsection. Additional access to individual parcels within the study area is provided by long and narrow private driveways. The right-of-way dimension for Fox Ridge Road measures 40-feet in width and includes a constructed paved surface that averages 25-feet in width with gravel shoulders on either side. The road will require improvements as the area urbanizes to meet City design standards. To meet today's urban standard, an additional 10-feet of right-of-way width, removal and reconstruction of the existing subgrade, construction of a paved travel surface at a minimum 26-feet in width, as well as 5-foot wide sidewalks on both sides of the street, curbs and gutters would be required.

Pedestrian and Bicycle Connections

Bike and pedestrian connectivity are integral to the Fox Ridge Road Area Plan, with consideration of connecting to the existing trails and linear parks (BPA and Westside trail systems) that are located just east within the existing Urban Growth Boundary (UGB). The existing trail system may potentially be linked via Wallace Road to the study area. There are currently no bike or pedestrian facilities along Fox Ridge Road. Hill Road was improved to its current configuration, completed in 2018. There are existing bike lanes along both sides of Hill Road and sidewalks along both sides where abutting lands are within the UGB. Creating safe and accessible bike lanes and pedestrian routes within the study area will require further evaluation of traffic calming design along NW Hill Road and improvements along Fox Ridge Road.

<u>Transit</u>

The City will also be coordinating with Yamhill County Transit as part of the outreach for the Fox Ridge Road Area Plan in order to better understand the potential for future public transit services to connect Baker Creek Road, Hill Road, and 2nd Street. Yamhill County Transit updated their transit plan in 2018, with future short- to long-term service expansions discussed within the region. The transit plan indicates that,

"McMinnville's R-3 residential zoning district allows nearly 12 units per acre and the R-4 residential district allows for higher-density developments (over 20 units per acre), which could support transit service that is more frequent than today; however, current residential density in the city is relatively low, even in areas currently zoned for medium- or higher-density housing." The plan identifies potential future service along Hill Road which could ultimately benefit the Fox Ridge Road study area. Higher densities and other plan elements would potentially increase the demand for these services sooner than later.

Utilities (Water, Sewer, Stormwater, And Other)

Water

The study area's primary source of domestic water is currently individual and private wells. The McMinnville Water and Light "Water System Master Plan" states that this area is located above the current water service area and cannot be provided public water without constructing an upper level system. This would require the acquisition of land in order to build a new reservoir (southwest of this study area at an elevation of some 510 feet), construction of two reservoirs, a pump station, and transmission lines connecting the existing reservoirs with the planned reservoirs and pump station. Properties located within Water Service Zone 1 (shown in Figure 7) are currently served with public water.



Figure 7. Water Service Zone Map

Sewer

Due to the topography of the study area, sanitary sewer effluent would gravity flow in two directions: to the north into the Michelbook drainage basin; and, to the south into the Cozine drainage basin, requiring additional trunk line extensions beyond what would otherwise be required. According to the City of McMinnville Engineering Department, there are downstream capacity limitations to both the Michelbook and Cozine drainage basins. Capacity limitations will be evaluated as the Wastewater Master Plan is updated in the future.

Stormwater

There are currently no existing storm pipes within the study area. However, existing storm pipes run throughout the neighborhoods both south and east of the Fox Ridge Road area that may be connected to any new storm pipes extended as part of the area plan. Within the Fox Ridge Road area is the North Cozine and Baker Creek Basin, as well as the West Cozine Creek Basin to the south. There is also a large gravel borrow pit that is now filled with water located in the eastern portion of the study area. Prior to any new development, the City will likely require the construction of water quality treatment and detention facilities prior to being discharged into the public stormwater line.

<u>Electric</u>

The study area is currently served by McMinnville Water and Light. There are existing feeders on North Hill Road that would have to be upgraded to accommodate the additional projected load from new developments. The Fox Ridge Road Area is already serviced, however, future coordination with municipal utilities will be coordinated at the time of development of individual properties.

Resource	Facility	Address	Location
	Newby Elementary School	1125 NW 2 nd St	1 mile – East
Schools	Duniway Middle School	575 NW Michelbook Ln	1 mile – East
2010012	Memorial Elementary School	501 NW 14 th St	1.5 miles – East
	McMinnville High School	615 NE 15 th St	2 miles – East
Higher Education	Linfield University	900 SE Baker St	2 miles – SE
	Chemeketa Community College	288 NE Norton Ln	3.5 miles – SE
	Jay Pearson Neighborhood Park	2120 NW Yohn Ranch Dr	0.6 miles – NE
Parks	Westside Bicycle and Pedestrian Greenway	Runs north/south NW Baker Creek Rd to SW 2 nd St	0.5 miles – East
	McMinnville Linear Park	Runs east/west S. Agee St to SW Westvale St	0.6 miles – SE
	Oregon Whole Health	349 SE Baker St	1.6 miles – SE
Hospitals	Physicians Medical Center	2435 NE Cumulus Ave	3.3 miles – SE
	Willamette Valley Medical Center	2700 SE Stratus Ave	3.3 miles – SE
	McMinnville Police Department	121 SE Adams St	1.6 miles – SE
Police Stations	Yamhill County Sheriff's Office	535 NE 5 th St #143	1.8 miles – SE
Fire Station	McMinnville Fire Department	175 E 1 st St	1.6 miles – SE
Playground	Scotty's Playhouse Indoor Playground	700 NW Hill Rd	0.1 mile – East
	The Manor at Hillside Retirement Community	900 NW Hill Rd	0.1 mile – East
	The Village at Hillside Assisted Living Facility	440 Hillside Pkwy	0.3 mile – SE
Senior Care	Traditions at Hillside Retirement Community	300 Hillside Pkwy	0.3 mile – SE
	Vineyard Heights Assisted Living Facility	345 SW Hill Rd	0.5 mile – South
	McMinnville Memory Care	320 SW Hill Rd S	0.5 mile – South
Cemetery	Masonic Cemetery	NW Cemetery Rd	0 miles

Community Facilities

The proximity of these community facilities further informs the area planning process, providing context to existing facilities, amenities, services, and opportunities for new connections. By understanding the distance of existing parks and playgrounds, the plan can prioritize pedestrian connectivity to these areas to link newly proposed parks and trails to the existing system of these facilities. Nearby resources, such as senior care facilities and schools, can be accounted for when considering new land uses and so on.

Key Findings

Land Use and Zoning

- The Fox Ridge Road Area Plan is expected to be adopted in reference to the MGMUP to ensure the study area complies with the goals and objectives established through the area planning process
- A significant land use within the area will be the 42-acre site owned by McMinnville School District that is slated for the potential development of a future high school.
- The plan will include a Neighborhood Activity Center that allows for small scale commercial and office development, NAC park/plaza, and high-density residential development within the center.
- The Neighborhood Activity Center should be strategically located to provide services and amenities to the diverse residential developments proposed within the study area.
- A neighborhood park is to be located within ½ mile of all residences within the neighborhood.

Natural Features

- Topographically, the majority of the study area consists of gradual to steeply sloping land that may affect the constructable residential densities and related utilites.
- A majority of the area's soils are of moderate to poor permeability which limits the types of stormwater facilities that can be utilized in support of future urban development.
- The area plan will need to plan for a useable open green space network that includes greenways and trails throughout the area to improve the walkability and accessibility of the study area.
- Two ridges running parallel to Fox Ridge Road, one on the north side and one to the south, further divide the properties along Fox Ridge Road from flatter areas at the northeast corner of the study area and land immediately to the south.
- Recent mapping conducted by the City of McMinnville to identify natural hazards and natural features in conjunction with Statewide Planning Goals 5 and 7 identified significant tree groves at the western edge of the study area, and scenic viewpoints along ridgelines to the north and south of Fox Ridge Road. It will be important to conserve natural greenspaces and greenways that may also serve to protect the dense stands of mature trees that provide habitat for protected avian species.
- Relatively flat properties at the northeast corner of the study area and at the base of Fox Ridge Road, near its intersection with NW Hill Road, are less impacted by slopes and closer to existing utilities.
- A large remainder of land within the Fox Ridge Road Area Plan is most suitable for lower density residential housing development due to steep slopes.
- Preliminary mapping of potential NH-P and NH-M overlay zones indicate that development may be limited by natural hazards on the middle portion of Fox Ridge Road, above the cemetery and tree farm properties at the base of the hill, and below the westernmost edge of the study area. In combination with other development constraints (parcelization, serviceability), new residential development along the higher portions of Fox Ridge Road may take place later than other portions of the area, or at a lower intensity. These areas could be evaluated in conjunction with identified natural features and habitat areas for possible designation of open space areas and/or transfer of development rights.

Infrastructure and Services

- If a different street standard is applied to Fox Ridge Road, future development would require road frontage improvements to meet City standards, including improvements to the right-of-way, remove and reconstruction of the existing subgrade, construction of paved travel surfaces, as well as 5-foot minimum sidewalks along both sides of the street, curbs and gutters.
- Connectivity and coordination with the development of the high school site, adjacent to the proposed mixed-use concept plan development, will be critical to the area plan.
- Bike and pedetrian connectivity should occur between the Fox Ridge Road area and existing trails and linear parks throughout McMinnville.
- Coordination with Yamhill County Transit should occur to provide public transit services, especially in conjunction with the proposed partial Neighborhood Activity Center location.

Wallace Road Extension

- The three-legged roundabout at the intersection of NW Hill Road and Wallace Road provides an opportunity to extend Wallace Road westward for access to the location of the Neighborhood Activity Center and the McMinnville School District property.
- A Wallace Road extension would provide access for the future high school site and the Neighborhood Activity Center on TL 700. Due to these adjacent uses, the Wallace Road extension will likely be the most used street in the study area, by all modes of travel, making the design and alignment of the road particularly important.

Regulatory Context and Planning Framework

- The Area Plan will be adopted as a supplement to the McMinnville Comprehensive Plan, and act guide for future urbanization of the land located within the Fox Ridge Road Area Plan.
- The Area Plan will reflect the principles of the MGMUP, MGMUP Framework Plan, McMinnville Comprehensive Plan and other applicable City land use policies and standards including:
 - The guidelines of the Traditional Neighborhood model
 - Standards for a partial Neighborhood Activity Center
 - The adopted Great Neighborhood Principles (Comprehensive Plan Policies 187.50)
- The MGMUP Framework plan identifies potential planned uses such as a partial or half Neighborhood Activity Center (5 – 10 acres) with commerical and office development (1 – 2 acres), medium-density residential development (2 – 5 acres) and high-density residential development (2 acres) located at the perimeter of the Neighborhood Activity Center. This will also include a Neighborhood Park located within a ½-mile distance from all residences in the study area, and a natural resource park.

School District Property

- McMinnville School District owns a 41-acre site at the northern edge of the study area, intended for a future high school. The site is a parallelogram, extending only about 700 feet in depth from the anticipated future extension of Wallace Road.
- The future high school site occupies a significant portion of the flat land at the northeast corner of the study area that is most easily accessed and serviced by existing utilities. Depending on the size of the high school, utility needs may vary. The timeline for development is uncertain.
- The district has not adopted specific programming or plans for a high school at this time, pedestrian, bicycle, and vehicular connectivity to the school will need to anticipate the future layout of the site.
- The shape of the property may pose challenges for configuring a high school, depending on the eventual programming intended for the facility.

Other Permanently Occupied Sites

- Two of the larger properties within the southern portion of the study area are occupied by uses that have been committed to specific uses that make them unlikely to redevelop at any time in the future:
 - The Masonic Cemetery occupies a 21-acre site, occupying nearly 70 percent of the southern boundary of the study area.
 - McMinnville Water and Light owns 13-acres near the center of the study area, along Fox Ridge Road, that houses four above-ground water reservoirs.
- These sites do not directly impact the development potential of neighboring properties but could interrupt the continuity of annexation and utility extensions, as property is urbanized from the existing City limits at the base of the hill. Annexations contiguous to City limits could occur relative to the City limits to the east or the south.

Rock Quarry Pond

- A large gravel quarry, now filled with water, is centrally located within the study area, near the base of Fox Ridge Road and adjacent to the approximate location suggested in the Framework Plan for the Neighborhood Activity Center. The gravel pit currently stores runoff from uphill lands and provides supplemental irrigation to properties outside of the study area.
- The pond created on the gravel pit site could provide a feature to a future park site or amenity for development in the vicinity.
- A park site or public park at the gravel pit site would occupy a possible connection point between the higher ground along Fox Ridge Road and potential future locations for a high school and Neighborhood Activity Center. However, the pond itself is not visible from either of these lower elevation sites.
- The pond currently plays a role in stormwater drainage and retention, and changes in configuration may have impacts in and around the site.

Opportunities and Constraints

The key findings listed above have helped inform the "Opportunities and Constraints Diagram" presented and utilized at Community Design Workshop #1 and has also been referenced in several Project Advisory Committee meetings to provide context (see Figure 8). This diagram summarizes the opportunities for various land uses, development patterns, building relationships, open spaces, and connections, as well as any key constraints that would need to be overcome in order to realize those opportunities.

Opportunities

- Potential gateways to the study area have been identified at the Hill Rd/Wallace Rd intersection and the Hill Rd/Fox Ridge Road intersection.
- New street connections identified connect the Fox Ridge Road study area to the Hillcrest Master Plan development, to the location of the Neighborhood Activity Center, through the School District site, and to both NW Hill Road and Wallace Road.
- Landmarks include the existing Rock Quarry Pond for preservation as a key community feature.
- Areas of significant tree groves have been identified for tree canopy preservation.
- Scenic viewpoints are shown that take advantage of the steep topography of the study area.

<u>Constraints</u>

- Committed lands include the School District site, Masonic Cemetery, and McMinnville Reservoirs.
- Steep slopes surpassing 25%+ will severely limit development due to topographical constraints.
- An existing easement from the Rock Quarry Pond runs through the proposed NAC site.

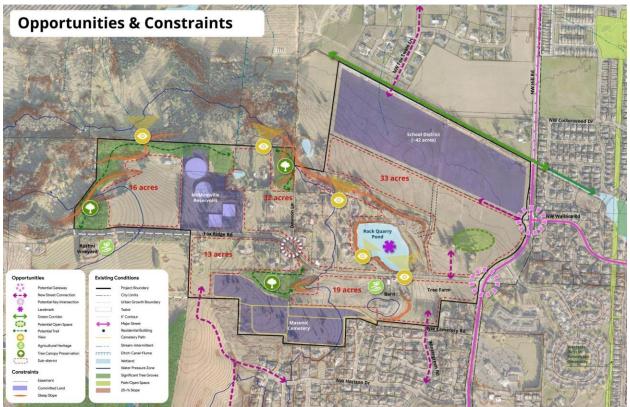


Figure 8. Opportunities and Constraints Diagram

Part 3: Community Engagement and Plan Development

Methods of Engagement and Community Input

In addition to conducting a document review and evaluation of existing conditions for the study area, the area planning process included several methods of community engagement for input and feedback to develop the goals and policies of the Fox Ridge Road Area Plan. Community engagement involved remote interviews with stakeholders, an online survey, design workshops, and public comments at Project Advisory Committee meetings and work sessions with Planning Commission and City Council. These opportunities for engagement were promoted through social media and newspaper ads, on the City website, and a City outreach booth, and updates for further involvement were provided at each of these meetings.

Stakeholder Interviews

Interviews with key stakeholders were conducted early in the area planning process to gather insight on the study area and receive initial comments on existing conditions, community features, and any current or future development plans. These interviews included private property owners, developers, and representatives from the McMinnville School District, McMinnville Water and Light, and the Oregon Department of Fish and Wildlife. These interviews provided future considerations to be accounted for within the area plan, stakeholders expectations for future development, expected services needed to support future development within the area plan boundary, connections to committed land uses, and the future planning of sensitive areas.

Online Survey

To receive a wide range of input from the Fox Ridge Road neighborhood and surrounding community, an online survey was available for one month between March 10 to April 10, 2023. The survey questions aimed to gauge the familiarity of respondents to the Fox Ridge Road area, and what the community's vision for the future of the Area Plan appeared to be. A total of 147 responses were submitted, many of which emphasized park, trails, and open space, preserving some aspect of the existing rural landscape, and helped identify key assets such as the Rock Quarry Pond, Masonic Cemetery, and scenic views of the area. There were diverse responses regarding housing density and affordability. Please see Appendix A for the summary of the survey results and responses.



Community Design Workshops

A total of two community design workshops were held to engage stakeholders, City staff, and citizens in interactive design sessions around the potential development scenarios for the Fox Ridge Road area. The intent of these workshops was to collaboratively develop a framework for future growth. The first workshop focused on gathering input to develop three distinct development scenarios for the area, with the consideration of land use, urban design, connectivity, access, infrastructure, and stakeholder concerns. The second workshop focused on parks, trails, and connectivity, and explored design concepts for the parks and trails, as well as the bike and pedestrian connections between these spaces. Please see Appendix B for summaries from both community design workshops.

Project Advisory Committee Meetings

The Fox Ridge Road Project Advisory Committee (PAC) was formed at the beginning of the area planning process and has held six meetings over the course of one year starting on December 1, 2022. These meetings reviewed project goals, findings of analyses and reports that were developed, outcomes of the community design workshops and online survey, and the development scenarios that were created as a result of those workshops. Committee members provided their input on these items and helped refine the resulting land use concepts to create a preferred land use concept plan. The Project Advisory Committee also identified key goals for the community and provided valuable feedback on the goals and policies that were created based on public engagement, stakeholder concerns, and the regulatory context and planning framework required to be met by the area plan. The area planning process has been guided by the Project Advisory Committee, representing the interests of the community, and creating the final vision for the Fox Ridge Road Area Plan.



Plan Development and Alternatives

As a result of the community engagement efforts, three land use concept "alternatives" were developed that each highlighted different priorities and elements required within the plan. Ultimately, each alternative was evaluated against the regulatory framework for the Fox Ridge Road Area Plan to identify the plan highlights and deficiencies. The alternatives, along with their findings, were presented to the PAC for review and feedback to create one preferred land use concept that accurately captured regulatory and planning requirements, as well as the vision of the community. Input from the community that influenced the development of the preferred land use alternative also informed creation of goals and policies for the plan, which captured the following comments and concerns:

- The desire for **parks, trails, and open spaces** throughout the planning area.
- The preservation of **scenic views** with opportunities for viewpoints along proposed trails.
- Conserving community features such as the rock quarry pond, masonic cemetery, and tree farms.
- Ensuring **neighborhood-serving retail** in new commercial areas.
- Consideration of development impacts on **nature, wildlife, and mature tree stands**.
- Potential **traffic impacts** with new development and higher density.
- Concerns regarding design and aesthetics of new developments.
- Providing pedestrian and bicycle pathways for **walkability**, access, and safety.

The draft preferred land use concept was presented to the Planning Commission and City Council at a joint work session held on October 18, 2023, for discussion. Input received from the work session helped further refine the concept for the final Area Plan Map (see Figure 9).



Market Analysis

A market and development analysis was conducted that focused on identifying the most feasible development types for commercial and higher density residential land in the Neighborhood Activity Center. The report provides market overviews, generates reliable assumptions with respect to achievable pricing and absorption, and outlines feasible uses, scale, and development forms within the Neighborhood Activity Center. The residential analysis provided focuses on high-density uses and evaluates the rental and ownership housing separately. The analysis indicates that there is adequate market support for rental apartments, rental townhomes, ownership townhomes, and commercial space in the Fox Ridge Road Neighborhood Activity Center. The analysis also provides further detail on the development types that would be feasible in this area, the potential for mixed-use projects, as well as the location for commercial and high-density residential uses. The full market analysis is included in Appendix D.

High-Density Residential

Demand for rental housing increased notably during the last decade. With a reduced supply of singledwelling rentals, markets saw strong gain in apartment demand over this period of time. According to the market analysis, McMinnville has not seen the same increase in apartment construction as most other parts of the region. With limited new supply, apartment properties in McMinnville have seen a decline in vacancy rates over the past 10 years, and the current low vacancy rates indicate considerable pent-up demand. One of the factors that has likely sustained strong occupancy in McMinnville is relatively affordable rent levels, which may also have deterred new development. Based on the analysis, rental apartments are recommended closest to the commercial section, which is consistent with the MGMUP. Rental housing tends to benefit more from that proximity, and the location will provide access to further amenities such as nearby park/green space and access to neighborhood-serving commercial retail.

Commercial Space

Based on the analysis, commercial activity in the NAC will depend on good exposure to auto traffic and will therefore need a location on the major Hill Road intersections, either at Wallace Road or Fox Ridge Road. Assuming the future development of the School District site the Wallace Road intersection provides the strongest exposure, positioning the commercial components to capture demand from residents east of NW Hill Road in addition to Fox Ridge Road Area residents.

Transportation and Traffic Impact Analysis

An existing and future analysis of traffic conditions was conducted with 20-year forecasting for future growth assumptions. Intersection traffic operations were analyzed for the weekday AM and PM peak hours under the existing conditions and future 2041 conditions to evaluate if the study area intersections meet the desired performance levels of the City. The analysis includes a future 20-year no-build and build analysis and identifies the transportation infrastructure needs for the Fox Ridge Read study area based on the Preferred Land Use Concept. The full traffic study is included in Appendix E.

Based on these land use assumptions, two intersections are estimated to fail to meet the City's vehicle operating standard in 2041. The suggested mitigation measures include:

- **NW Hill Road at Fox Ridge Road:** Install a single-lane roundabout or traffic signal.
- NW Hill Road at 2nd Street: Install a single-lane roundabout or traffic signal.

Bicycle, Pedestrian, and Transit Needs

Conditions for bicyclists, pedestrians, and transit needs were considered within the traffic analysis for the study area. NW Hill Road between Baker Creek Road and 2nd Street had recently been reconstructed with on-street bike lanes, gutter, curb, sidewalks, and a center turn lane/raised median since the McMinnville Transportation Systems Plan (TSP) was adopted in 2010. There are still gaps in the sidewalk along the west side of the road that is anticipated to be filled in as annexation and development occurs. The segment of NW Hill Road between 2nd Street and Alexandria Street does not have any sidewalks, curb, gutter, or on-street bike lanes. Although, there are existing wide paved shoulders for bikes within this segment. There are no local transit routes that stop or travel along NW Hill Road. The City is working with Yamhill County Transit to eventually extend services to residential and commercial locations along NW Hill Road as the Fox Ridge Road Area develops. As the Neighborhood Activity Center develops and additional medium-density and high-density residential units are developed, demand for public transportation will increase.

Priority TSP Projects

The City is also working on updating their TSP which will maintain standards for pedestrian and bike facilities and identify where improvements shall be made throughout the City and including within the Fox Ridge Road Area. In their current McMinnville TSP (2010), the priority vehicle, pedestrian, and bike projects that are applicable to the Fox Ridge Road study area include the following:

- Compete Streets Update NW Hill Road South (between 2nd Street and Alexandria Street) includes addition of pedestrian sidewalks and on-street bicycle lanes.
- Installation of a roundabout or traffic signal at NW Hill Road and 2nd Street. Based on the recent traffic analysis performed, a single-lane roundabout was evaluated at this location but was found to require dedicated southbound and westbound right turn lanes to operate adequately, which would also require more right-of-way than a traffic signal with dedicated left turn lanes. Although a single-lane roundabout was evaluated to function at this intersection, a signalized improvement could be equally as effective in managing traffic.

Implications for the Area Plan

The Fox Ridge Road Area Plan anticipates the future urbanization and development of the study area where existing low-density residential neighborhoods are gradually redeveloped with infill projects that comply with the MGMUP Framework Plan. This includes higher density housing developments, neighborhood serving commercial retail, parks, trails, pedestrian connections, and street improvements. As the plan is realized, new developments will require additional services and improved infrastructure to support growth within the study area. The Fox Ridge Road Area Plan provides specific direction on the land use and design for future development within the study area as properties are annexed and developed.

Part 4: Fox Ridge Road Area Plan

This chapter presents the final plan and land use concepts that will guide future development and planning decisions within the Fox Ridge Road Area. This Area Plan has been created by the community through design workshops, online survey responses, Project Advisory Committee meetings, and public work sessions. This process of community engagement helped develop the initial land use concept alternatives and form the goals and policies for the Area Plan. The initial draft land use concepts were ultimately refined by the City's Project Management Team, Planning Commission and City Council through the area planning process. The Fox Ridge Road Area Plan's final preferred land use concept achieves the community's vision and goals while fulfilling the City's model for traditional neighborhoods and the Great Neighborhood Principles.

The Plan Narrative

Land Use and Design

The Fox Ridge Road Area Plan's developed land uses are mapped in the Area Plan Map (see Figure 9) and includes all elements designated within the Framework Plan. The Neighborhood Activity Center is located along NW Hill Road at the Wallace Road intersection with commercial mixed-use and a park plaza at the core of the activity center. High-density and medium-density residential land uses are located directly adjacent to the neighborhood-serving commercial uses and surrounds the park plaza, and low-density residential land uses are located outside of the activity center where topography exhibits steeper slopes. A neighborhood park has been identified south of Fox Ridge Road and is located within a ½-mile distance from all residences within the Area Plan. Key community features have been identified including the Rock Quarry Pond, School District site, and the McMinnville Reservoir property. The remaining land to the west and the ridgeline areas along the northern boundary of the study area are allocated as a Natural Resource Park, which will also serve to protect existing natural resources and take advantage of the area's scenic viewpoints. Greenways and secondary trails connect the entire study area to adjacent neighborhoods, and potential street connections have been identified throughout the Area Plan.

The Fox Ridge Road Area Plan considers local design considerations that build on the Great Neighborhood Principles and their related plan policies. These include:

- Protection of the Rock Quarry Pond and Masonic Cemetery as community features.
- Coordination with the School District site and the Neighborhood Activity Center.
- Creating walkable and neighborhood-serving mixed-use commercial development.
- Connecting the proposed park systems for accessibility to all residents in the area.
- Emphasizing pedestrian and bicycle safety and access through frontage road improvements, greenways, and trail systems.

Key features of the Area Plan include:

- **Mixed-Use Commercial.** Within the focus area of the Neighborhood Activity Center, mixed-use commercial land use has been designated to provide flexibility in future development. This area may be developed with ground floor commercial uses and residential units or office space above ground. The location of the mixed-use commercial land use is intended for neighborhood serving retail development to provide goods and services to the residents of the Fox Ridge Road Area.
- **Higher Density Residential.** Designation of medium-density and high-density residential units maximizes opportunities for new housing development and allows for a variety of diverse housing options. The location of these higher density residential land uses is directly adjacent to the designated mixed-use commercial area, creating walkable and accessible neighborhoods.

- Neighborhood Park. The neighborhood park provides opportunities for active and passive recreation that is accessible to all residents in the study area. The neighborhood park is centrally located within ½-mile distance from all residences and exceeds the minimum target acreage.
- Natural Resource Park. A natural resource park has been identified at the west end of the study area, and along the northern boundary following the existing ridgeline. The designation of these lands as a natural resource park preserves the existing natural features while providing opportunities for both active and passive recreation. The natural resource park includes large open green spaces as well as proposed trails along the northern ridgeline that take advantage of the scenic viewpoints of the study area.
- **Greenway and Trail System.** Identified greenways connects NW Hill Road through the study area via Fox Ridge Road and provides direct connections north to the Neighborhood Activity Center into the School District site. The greenway system also provides connections to the natural resource park, with secondary trails that ties the study area together. This creates a "looped" and well-connected pedestrian network of primary trail/greenways and secondary trails.
- Natural Feature Preservation. The study area contains several stands of mature trees that provides habitat for protected avian species, the Rock Quarry Pond that stores runoff water used for off-site irrigation, and many opportunities for scenic vistas along the northern ridgeline. These areas of existing natural features are preserved as designated park land, greenways, or trails.
- **Street Connections.** Potential street connections connect the study area to the surrounding neighborhoods and their existing street systems.

Neighborhood Activity Center

The MGMUP Framework Plan calls for a partial Neighborhood Activity Center along the area's Hill Road frontage between the Wallace Road roundabout and the intersection of Fox Ridge Road. The proposed NAC is located within the northeast corner of the study area, west of NW Hill Road. The plan highlights a distinct Focus Area of the NAC, where mixed-use commercial and a park/plaza has been located. Surrounding this area is the Support Area, where high-density residential exists and decreases in density moving away from the focus area.

Focus Area

Mixed-Use Commercial

The location of the NAC focus area is well-positioned for mixed-use commercial development, specifically for neighborhood-serving retail. The location of the mixed-use commercial land use benefits from its proximity to the proposed future High School Site, adjacency to NW Hill Road which provides exposure and access, and distance from existing and proposed residential areas. The mixed-use commercial is anticipated to provide for ground floor retail services with upper floor residential housing or professional office use. The land use designation as a mixed-use allows for flexibility in future development, depending on market conditions and feasibility. This may be high-density housing with ground floor commercial, or smaller-scale commercial with second-story offices. Commercial uses will provide essential services for the neighborhood in one convenient location that is accessible in a single stop.

Park/Plaza

Centered within the NAC focus area, the park/plaza location provides a central location for community gathering and recreation. The park/plaza may include open green space with pedestrian sidewalks, a gazebo or gathering space, park benches for seating, water fountains, and other facilities that encourages ease of

use. With its central location and open space, temporary uses may be encouraged within the park/plaza such as organized events, farmers markets, art fairs, cultural performances, or other recreational clubs or activities. The park/plaza is a critical element to organize the neighborhood around both passive and active recreational opportunities, connecting the NAC with the surrounding support area.

Support Area

Residential Land Uses

High-Density Residential (HDR)

1/8-mile radius from focus area.

Surrounding the activity center are support areas that include the highest-density housing within the neighborhood. The Framework Plan calls out a target of 2 acres minimum for high-density residential area. As desired by the community, the HDR allocated within the Area Plan exceeds the Framework Plan target with a total of 4.4 acres designated for future high-density residential development. All HDR areas are located just outside of the focus area, surrounding the southern boundary of the NAC park/plaza north of Fox Ridge Road. This location provides direct access from HDR areas to neighborhood-serving commercial areas, the NAC park/plaza, and the high school site. Configuring all HDR north of Fox Ridge Road eliminates the need for street crossing to access the focus area and creates cohesive design opportunities for future development. Areas designated as High-Density Residential will be classified under the R-5 High-Density, Multiple-Dwelling Zone.

Medium-Density Residential (MDR)

1/4-mile radius from focus area.

Progressively decreasing in density outwards, the medium-density residential areas are also located within the support area. The Framework Plan identifies a target of 2 to 5 acres for medium-density residential area. The Area Plan maximizes density with 10.6 acres of designated land uses for future medium-density residential development. These MDR areas are located north of the focus area (adjacent to the School District site) and south of Fox Ridge Road across from the designated HDR. Areas designated as Medium-Density Residential will be classified under the R-3 Medium-Density or R-4 Medium, High-Density Zones.

Low-Density Residential (LDR)

As identified in the MGMUP, the Fox Ridge Road study area is one of the few areas planned for R-1 density. Low-density residential land uses outside of the NAC are designated in the following areas: where street facilities are limited to collectors and local streets, such as Fox Ridge Road which is classified as a local street within the TSP; where there are development limitations due to topography, soil characteristics, or drainage; and within areas that have a limited capacity for development in terms of facilities and services such as sewer, water, drainage, schools, police, and fire. As described in the existing conditions section of this plan, much of the Fox Ridge Road study area exhibits topographic constraints, natural hazard areas, and existing limitations to capacity such as sewer and water services. These constrained areas have been identified for low-density residential development. Areas designated as Low-Density Residential will be classified under either the R-1 or R-2 Low-Density Zones.

Connectivity

The focus area and support areas are connected by proposed street connections and pedestrian greenways. The greenways are a system of primary trails that connect the NAC to the rest of the study area, creating safe and accessible means of pedestrian and bicycle travel without having to rely on automobiles. Secondary trails create additional connections between greenways and other key features such as the various parks designated throughout the study area and all of the low-density residential designated west of the activity center. These connections emphasize walkability, scale, and safety within the activity center and ensure that residents throughout the Fox Ridge Road Area have direct access to the activity center.

Types of Land Uses

The market analysis prepared for the Fox Ridge Road study area provides suggestions for land uses that may be feasible for future development. The following are potential uses based on the market analysis and discussion with the community that fulfill the vision for the Fox Ridge Road Area Plan:

Mixed-Use Commercial

- Neighborhood grocery store or market
- Pharmacy or drug store
- Bakery or coffee shop
- Neighborhood services or retail
- Neighborhood restaurant or pub
- Professional office space
- Upper story housing (commercial on ground floor)

<u>Residential</u>

- High-density housing (R-5 zone)
- Medium-density housing (R-3 and R-4 zones)
- Low-density housing (R-1 and R-2 zones)

Public/Institutional

- Neighborhood park or plaza
- Public market
- Daycare facility
- Schools

Land uses that should be avoided include uses that are considered noxious when located next to a residential neighborhood, large retailers or discount stores, auto-oriented businesses, warehousing, storage, or heavy manufacturing. These types of uses do not compliment a traditional neighborhood, which moves away from automobile dependency and relies on neighborhood-oriented retail services that encourages walkability and human scale design.



Aerial perspective of the Neighborhood Activity Center site looking west of NW Hill Road.

Parks and Public Facilities

Neighborhood Park

To provide recreational opportunities that support the residential land uses, a neighborhood park has been designated within the Fox Ridge Road Area that exceeds both the Framework Plan target of 3 to 5 acres and the Parks Master Plan facility requirements of 5 to 12 acres. The designated neighborhood park is 8.7 acres total, which also includes a buffer between the Masonic Cemetery along the southern boundary of park. The buffer acts as a barrier for the Masonic Cemetery from active recreational uses that may occur within the park such as active sports, large gatherings, or other programmed events. The neighborhood park is centrally located within a ½ mile distance from all residences in the study area and contains pedestrian trail connections that link the park to surrounding uses and areas. A primary greenway provides a direct the park to adjacent low-density residential areas and other neighborhoods such as the Hillcrest Master Plan south of the study area. The location of the neighborhood park serves to protect existing natural resources such as the dense stands of mature significant trees within the designated park area.

Natural Resource Park

The Fox Ridge Road Area is defined by its scenic views and challenging topography. Due to the existing natural and geographic features of the study area, a natural resource park is included that takes advantage of the topography and existing natural resources within the westernmost areas and along the northern boundary. The natural resource park preserves the natural landscape of these more challenging areas while providing opportunities for scenic vistas along the northern ridge. The total area for the park is comprised of roughly 29.5 acres, which is connected to the study area via greenways and secondary trails. The greenway system along Fox Ridge Road encourages pedestrian travel west through the natural resource park heading north before transitioning to the secondary trail system that provides additional access along the northern ridge with demonstrated viewpoints. The natural resource park also further serves to protect the area's significant tree groves, which provide habitat to several protected avian species.

Special Use Park / Rock Quarry Pond

Throughout the community engagement process, the rock quarry pond was consistently identified as a key feature of the study area. Conveniently located directly east of the NAC abutting the HDR land use, the plan designates the rock quarry pond as a Special Use Park to be developed as a recreational site or natural resource with opportunities for pedestrian access. This future improvement may include pedestrian pathways around the pond with bench seating that takes advantage of the views. The rock quarry is not only a significant community feature, but actively provides irrigation off-site as it is continuously filled from uphill water runoff. Future stormwater master planning and subsequent development surrounding the rock quarry pond should consider the continuous fill level of the pond. Development of the Special Use Park will need to design stormwater management to ensure the rock quarry pond remains as a pond.

Primary Trail / Greenway

The greenway system serves to protect the natural resources of the study area and preserve wildlife habitats. Greenways supports outdoor recreation and may offer trail-oriented features such as benches for seating, restrooms, bike racks or trash enclosures. These primary trails also provide direction connections through the study area by providing multi-use pathways for pedestrians and alternative modes of transportation. A major section of the greenway system is along Fox Ridge Road, which will buffer the primary multi-use trail from the street for safe and accessible routes of transportation. These greenways also create buffers between uses, such as between the LDR and MDR that is located within the NAC. Designated greenways create connectivity between all proposed parks and direct connections from the School District site, through the NAC, along Fox Ridge Road, and loops back around with secondary trails.

Secondary Trail

Secondary trails act as connectors to provide a public access route for commuting and trail oriented recreational activities such as walking or biking. These trails typically include sidewalks and can be designed as multi-use trails and paths with designated bikeways. Within the Fox Ridge Road Area, some sections of trails may be developed more naturalistic around sensitive natural resource areas that require preservation. Secondary trails will help reduce auto-dependency by connecting community facilities and services to residential neighborhoods. They also serve to provide shorter relief points from the looped trail system for complete access to all sections throughout the study area.

Infrastructure and Other Utilities

Street Connections

Potential street connections and access points are identified throughout the Area Plan Map. These points of connection are based on the City's minimum block length standard and suggests connections where future developments may consider local street access. Future development will dictate the location of developable street connections, which will require compliance with the City's development standards.

Existing Public / Committed Use

McMinnville Reservoirs

McMinnville Water and Light owns the 13-acre property that houses four above-ground water reservoirs.

Masonic Cemetery

Identified as a key community feature, the Masonic Cemetery occupies nearly 70 percent of the southern boundary with a 21-acre site. The neighborhood park abuts the northern boundary of the cemetery; however, a natural buffer has been allocated along this boundary between the two land uses.

The Vision, Goals, and Policies

The Fox Ridge Road area is a beautiful naturalistic landscape with rolling hills that reflects the character and connection of a small-town community. With its breathtaking vistas, historical features, and opportunities for future neighborhood development, this once sprawling area highlights the goals of McMinnville's Great Neighborhood Principles in its envisioned land use, development, design, preservation, and connectivity. The following are goals for the Fox Ridge Road area that reflect the desires and values of the community with specific policies provided under each goal to guide development and future planning decisions:

GOAL 1: COHESIVE LAND USE PLAN – Ensure future development reinforces the Framework Plan and Great Neighborhood Principles with a connected Neighborhood Activity Center.

The plan area contains existing low-density residential development. This plan aims to provide a mix of land uses that support each other, including a variety of housing development types to support single-dwelling and multi-dwelling development, and neighborhood serving commercial and office developments.

Policies:

- 1. New commercial developments should be designed to be at a walkable, human scale and for ease of use by all ages and abilities.
- 2. Encourage a diversity of future housing forms, types, and designs that respect the existing character of the Fox Ridge Road plan area including both single-dwelling and multi-dwelling development.
- 3. New developments should promote inclusion and interaction within the right-of-way.

- 4. Encourage neighborhood serving, oriented, and scaled commercial uses that is easily accessible to residents within the Neighborhood Activity Center.
- 5. Limit the location of any commercially zoned land to the Neighborhood Activity Center.

GOAL 2: OPEN GREEN SPACES – Create well programmed and connected parks, trails, and open spaces that aim to help preserve and protect existing natural resources and scenic views.

The plan area contains several natural and community resources including the Rock Quarry Pond, Masonic Cemetery, significant tree groves, and a large natural area along the northern ridge. This also includes scenic views of natural scenery and landscapes, and scenic resources such as dark night skies that may be impacted by light pollution and design. This plan aims to preserve, protect, and enhance these identified resources while promoting both passive and active recreational opportunities that are connected throughout the area.

Policies:

- 1. The built environment will be designed to provide and protect scenic views from the area.
- 2. The Rock Quarry Pond should be protected and enhanced as a Special Use Park with public access.
- 3. The Masonic Cemetery should be protected and respected by future developments.
- 4. Significant natural and community features should be inventoried and protected to the extent fullest.
- 5. Locate and acquire areas within the plan area that have been identified as open space for the development of parks, trail corridors, and open green spaces.

GOAL 3: AESTHETICS AND DESIGN – Encourage well designed and aesthetically pleasing developments that help meet land use goals while preserving the character of the area.

The plan area contains existing rural residential developments at very low densities with small-town design characteristics. This plan aims to preserve the small-town character of the area by allowing development for future growth which reflects, preserves, and supports the existing character of McMinnville. Alternative proposals to design will be evaluated based on compatibility with the plan area.

Policies:

- 1. The existing small-town character of the Fox Ridge Road plan area should be considered when designing residential, commercial, or institutional developments within the plan area.
- 2. Require future landscaping within the area to include native landscape plantings with seasonal variation and tree plantings that include deciduous trees to provide shade for the public streets.
- 3. Adopt design guidelines for the Neighborhood Activity Center that complement the small-town character of the Fox Ridge Road plan area and the City of McMinnville.

GOAL 4: TRANSPORTATION – Enhance local connectivity and pedestrian accessibility throughout the area.

This plan aims to create a connected transportation and pedestrian network that serves the Fox Ridge Road plan area and its surrounding neighborhoods, ensuring safe access for residents of all ages and abilities.

Policies:

1. The Fox Ridge Road Area will have safe shared pedestrian and bicycle routes for residents.

- DRAFT
- 2. Planned multi-use paths should be at least 10 to 12 feet wide for utility purposes.
- 3. New street connections should connect to the existing local street grid consistent with the Local Street Connectivity map and comply with the Transportation System Plan standards.

GOAL 5: NATURAL FEATURES AND HAZARD AREAS – Protect wildlife species, significant tree stands, and hazard areas that have been identified for mitigation or protection.

The plan area contains identified hazard areas for both mitigation and protection, as well as natural features. This plan is designed with consideration to both natural features and hazard areas. The Area Plan will be coordinated with future Natural Features and Hazards planning as part of implementation.

Policies:

- 1. The plan should be coordinated with Natural Hazards and Natural Features Planning.
- 2. The plans should seek to protect areas of wildlife habitat.
- 3. The plan should be coordinated with planning for natural hazards to protect life and property from natural hazards.
- 4. Plan for the "ridgeline" natural areas to trails for connectivity or passive and active recreational opportunities.
- 5. Public improvements and private development should strive to protect existing significant tree stands and individual mature significant trees.

Great Neighborhood Principles

In April 2019, the City of McMinnville adopted the Great Neighborhood Principles into the City's Comprehensive Plan. Their purpose is to guide the land use patterns, design, and development of the places that McMinnville citizens live, work, and play. These 13 principles are listed below. Under each principle are specific policies that detail how these principles are expected to be expressed in a site and context-specific way within the Fox Ridge Road Area Plan:

- 1. Natural Feature Preservation
 - Protect the Rock Quarry Pond and Masonic Cemetery.
 - Protect existing significant tree stands and mature significant trees.
 - Protect riparian corridors and wildlife species of concern.
- 2. Scenic Views
 - Provide viewpoints and protect scenic vistas along the northern ridge of the plan area.
 - Gathering spaces will be designed to incorporate natural areas and scenic views.
 - Orient streets and open spaces towards scenic views.
- 3. Parks and Open Spaces
 - Protect existing natural resources in open spaces.
 - Create new gathering spaces within the proposed neighborhood.
 - Provide a nature-based community park.
 - Provide an open space park plaza within the Neighborhood Activity Center.
 - Provide a neighborhood park within ½ mile of all residences within the neighborhood.

- 4. Pedestrian Friendly
 - Provide a trail system and pedestrian corridors that provide connectivity throughout the plan area and safe access to the Neighborhood Activity Center.
 - Incorporate shade trees along pedestrian corridors.
- 5. Bike Friendly
 - Provide safe routes for residents and cyclists.
 - Utilize connected primary greenway system.
- 6. Connected Streets
 - Connect local street systems within Neighborhood Activity Center and School District site.
 - Connect to existing local street grid in the Fox Ridge Road plan area.
 - Improve Fox Ridge Road and local streets to better serve the plan area.

7. Accessibility

- Design new developments with pedestrian corridors for ease of use by all ages and abilities.
- Create connected and accessible secondary trail loops throughout the plan area.
- 8. Human Scale Design
 - Design based on small-town character—porches, balconies, prioritize outdoor and open spaces.
 - Promote inclusion and interaction within the right-of-way.
 - Design commercial uses to typical human scale.
 - Encourage shorter block lengths within new developments.
 - The public and private areas between land uses in the focus area should be intentionally designed to provide pleasant places for pedestrian and human interaction ensuring vehicular use and parking lots do not dominate street edges and park and common area interfaces.
- 9. *Mix of Activities*
 - Design the Neighborhood Activity Center to provide mixed-use developments where feasible.
 - Encourage neighborhood serving commercial and institutional uses easily accessible to residents.

10. Urban-Rural Interface

- Preserve small-town character in development and design.
- Consider existing agriculture and respect this heritage through careful transitions.
- 11. Housing for Diverse Incomes and Generations
 - Allow for a mix of housing types that serve a variety of household incomes.
- 12. Housing Variety
 - Encourage a diversity of housing forms and types for future housing developments that reflects the existing character of the plan area.

13. Unique and Integrated Design Elements

• Unique public art, public furnishing, and design elements should be incorporated into public places, parks, and commercial areas.

Neighborhood Activity Center – Land Uses

Types of Residential Housing





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Potential Features for Neighborhood Parks



Greenways and Shared Use Paths



Trails and Natural Areas



Connecting Open Spaces



Relating Land Uses



The Area Plan Map

FINAL Preferred Land Use Concept

This concept maximizes capacity on the eastern and northern portions of the planning area, where the land is generally flatter, less constrained, and has closer access to NW Hill and Wallace Roads.

Parks and open spaces are distributed throughout the planning area with greenway connections, including those along the northern boundary, and parallel to Fox Ridge Road.

> High Density: 4.4 ac Framework Plan target: 2 acres

Medium Density: 10.6 ac Framework Plan target: 2-5 acres

Low Density: 68.1 ac

Commercial: 4.9 ac Framework Plan target: 1-2 acres

Neighborhood Park + Buffer: 8.7 ac Framework Plan target: 3-5 acres Parks Master Plan target: 5-13 acres

Natural Resource Park: 29.5 ac Framework Plan target: unspecified

Special Use Park: 12.6 ac

NAC Park / Plaza: 5.0 ac

Greenway Area (between bldgs): 3.0 ac

Existing Public / Committed Use: 72.5 ac

Neighborhood Activity Center (NAC): Shown within dashed white circles.

Note: Acreage is reported as gross and does not assume any rights-of-way deductions.

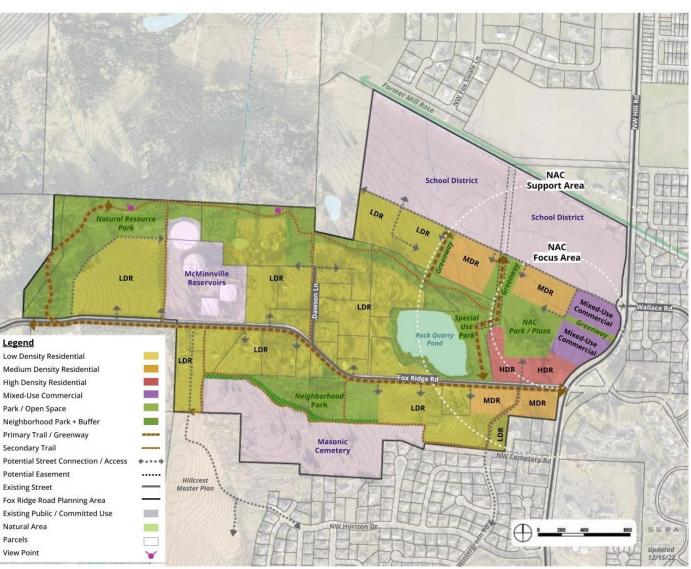


Figure 9. Preferred Land Use Concept.

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Part 5: Implementation

Overview

As required by the area planning chapter of McMinnville's Municipal Code, the Fox Ridge Road Area Plan reflects the long-range planning efforts intended to determine land use regulations, transportation and infrastructure plans, and community goals within the study area. This section responds to policies and regulations from McMinnville's Comprehensive Plan, Development Code, Framework Plan, along with area and site-specific conditions. The following sections summarizes the amendments that will be the primary implementation measures for the Fox Ridge Road Area Plan.

Land Use

The land use concept plan component of the plan will guide future Master Plans for properties as property owners pursue annexation and development. The Fox Ridge Road Area Plan includes a partial Neighborhood Activity Center, with a focus area and support area. Comprehensive Plan policies in Section 187.95 of the Comprehensive Plan apply to Neighborhood Activity Centers and will need to be addressed.

<u>Water</u>

There are three different water pressure zones with the Fox Ridge Road area, corresponding to different elevation contour bands.

- **Zone 1.** Zone 1 is currently serviceable.
- **Zone 2.** In the near-term, new pump station facilities will be needed to serve properties in Zone 2 in the Fox Ridge Road area and adjacent properties to the south which are already in City limits, which will need resolution of funding and allocation of those costs. In the longer-term, Zone 2 is proposed to be served with a new reservoir to be located west of the study area.
- Zone 3. A portion of the Fox Ridge Road Area located west of the reservoir site is above Zone 2 and would require Zone 3 facilities to serve. This will need to be addressed with the Water Distribution Plan update. Due to the limited acreage and lack of other UGB properties in Zone 3, an interim solution may be necessary to service that property, subject to cost feasibility analysis.

Sanitary Sewer

- There are some downstream capacity considerations in the Michelbook basin to the east and the Cozine basin to the south. The Wastewater Conveyance Plan update will need to consider capacity improvements in these basins.
- In conjunction with a requested annexation and development proposal, a property owner may need to request a model run of the City's sanitary sewer model and may need to upsize certain downstream pipe segments prior to or concurrent with development.
- Sanitary sewer facilities are most efficiently provided with gravity flow rather than pump stations. With the existing topography and top-of-ridge location of Fox Ridge Road, slopes in the areas, and parcelization, there should be consideration of where sanitary sewer can be extended from higher elevation areas to and through lower elevation areas to enable gravity sewer. This should generally be provided in public street right-of way; however, where topography limits street connections, consideration should also be given to provisions of facilities along public, open space, and/or trail corridors to provide for gravity sanitary sewer alignment between and connecting to public street rights-of-way.

Stormwater

- In conjunction with a requested annexation and development proposal, a property owner will be subject to applicable state drainage law consistent with City policy. Due to soil conditions, new developments may be required to provide detention to offset new impervious area so the development doesn't increase downstream runoff flows.
- Forthcoming stormwater planning work may consider opportunities for fewer, larger detention facilities.

Transportation

- The size and location of the study area does not necessitate new collector or arterial streets through the area. Traffic within the study area will be predominantly local residential traffic.
- Within the study area, there are opportunities for good local street connectivity within the larger properties. Areas that are already parcelized and developed may limit opportunities for internal street connectivity. There may be limitations on connectivity between some of the higher elevation areas and lower elevation areas due to topography. However, there may be opportunities for trail connectivity in those areas where street connections may be infeasible.
- Due to the location at the edge of the UGB and the presence of the cemetery, there are limited opportunities for street connectivity between the Fox Ridge Road Area and adjacent lands. However, there are opportunities for local street connectivity to City streets to the south, near the east side at Wintergreen Drive and near the west side at the future extension of the street in the Hillcrest Planned Development.
- The study area intersections are currently operating within the City's performance standards for peak hour traffic.
- For future year 2041 conditions, the traffic analysis considered not only assumptions for "buildout" of the Fox Ridge Road study area, but also assumed build-out of other lands added to the UGB (including the southwest area) and other undeveloped sites in the vicinity including the Baker Creek North Mixed Use site and the two sites on Hill Road owned by the School District assumed for future school development.
- The forthcoming Transportation System Plan (TSP) update will include analysis of the network needs including all new UGB areas. Based on the Fox Ridge Road Area Plan traffic analysis, study area intersections will meet the City's performance standard in the future year or are already identified for intersection improvements in the TSP. The one exception is Fox Ridge Road and Hill Road. The TSP update will need to evaluate if and when intersection improvements will be needed at this location. Options may range from separating left and right turn lanes off Fox Ridge Road onto Hill Road or other intersection improvement alternatives.
- The Fox Ridge Road Area Plan includes a preference for future improvements to Fox Ridge Road to be designed to a street standard that would have a separated multi-use path for bicycles and pedestrians, rather than a typical street section.

Natural Resources and Hazards

- In order to preserve and protect natural and community resources within the study area, such as the Rock Quarry Pond or significant tree groves, Natural Resource planning will need to be performed that inventories these resources and creates policies for protection.
- The City is currently engaged in Natural Hazards planning to identify potential areas that will require mitigation and protection from natural hazards, such as landslide areas that have been identified within the Fox Ridge Road study area. Adoption of the Natural Hazards Overlay Zone will be necessary to determine future development within these hazard areas.

Comprehensive Plan Amendments

The Fox Ridge Road Area Plan establishes land use, development, and transportation policies that will help the community realize their vision for future growth and urbanization of the area. The Area Plan will be adopted as a supplement to the McMinnville's Comprehensive Plan to guide future land use and development decisions, along with transportation and utility improvements. These changes to the Comprehensive Plan reflect the extensive community engagement process and land use decisions reached.

The proposed amendment to the Comprehensive Plan to include the Fox Ridge Road Area Plan will achieve the following goals:

- Preserve the natural resources within the planning area by enforcing appropriate development controls on lands with identified building constraints such as excessive slope or natural hazards.
- Preserve cultural and historical resources that provide positive impacts on the community and protect local sites that are significant to the City.
- Provide additional commercial land within the City of McMinnville to foster economic growth and ensure neighborhood-serving retail and services are accessible to the residents of Fox Ridge Road.
- Promote the development of quality, diverse, and affordable housing for all residents.
- Encourage the development of safe and efficient transportation including street improvements, complete streets, and pedestrian routes that connect the planning area.
- Provide necessary public and private facilities and utilities that help advance urban development.
- Ensure neighborhood parks, greenways, natural resource parks, trails and special use parks are connected and have minimal impact on environmentally sensitive lands.
- Encourage mixed-use developments within the Neighborhood Activity Center to create vibrant neighborhoods consistent with the Great Neighborhood Principles.

Comprehensive Plan Map

As a supplement to the Comprehensive Plan, the Fox Ridge Road Area Plan will require a map amendment that reflects the Area Plan Map (see Figure 9). Based on the vision of the community, the new Area Plan designates land uses within the Fox Ridge Road study area, currently indicated as Urban Holding (UH) on the City's Comprehensive Plan map. In order for the Fox Ridge Road Area to development consistently with the Area Plan Map, the City must update the Comprehensive Plan Land Use Map to reflect these newly designated land uses within the study area. This will change the Fox Ridge Road study area from UH to Residential, Commercial or Mixed Use Urban land uses.

Transportation System Plan

The Area Plan Map proposes potential street connections based on the City's development standards and the traffic analysis performed within the study area that anticipates future growth through 2041. In order to support these future connections, the City of McMinnville will need to update their current 2010 Transportation System Plan (TSP) to capture these improvements. These changes include improvements at key intersections to support future development within the Fox Ridge Road Area, and sidewalk or frontage improvements that enhance the safety and accessibility of pedestrian travel. Standards from the current TSP should be revised to ensure ease of multi-modal transportation. Pedestrian greenways should be required to have wider lanes for added safety, with added standards for shared use trails.

<u>Utilities</u>

Facilities for utilities that will encourage or support new development within the Fox Ridge Road Area will need to be considered and integrated as part of their relevant City master plans. An infrastructure funding plan should be considered to realize the vision of urbanization within the Study Area.

Policies

The policies developed within the Fox Ridge Road Area Plan act as a supplement to the existing Comprehensive Plan policies and support the implementation of the Area Plan. These policies are intended to aid in the implementation of the community vision and goals. Additional policies outline how the Comprehensive Plan's Great Neighborhood Principles are expected to be expressed in the future growth and development of the Fox Ridge Road Area.

Zoning Ordinance Application

The future development of the Fox Ridge Road Area will require zone changes within the study area subject to the designated land uses shown in the Area Plan Map. Land uses and development in the study area is regulated by the City's Zoning Ordinance which governs the permitted uses, density, dimensional requirements, site design, and permitting requirements for individual zoning districts. As properties annex into the City, they will be required to rezone into urban zones that fall under their designated Comprehensive Plan land use and fulfill the goals and policies of the Fox Ridge Road Area Plan.

Master Planning Process

Properties greater than 10 acres in size must undergo a Master Planning process prior to annexation or development within the City. The Master Plan must comply with the submittal requirements and review criteria outlined within the City's Zoning Ordinance. These developments must:

- Be consistent with the Framework Plan, Area Plan, and Comprehensive Plan in terms of land use, density, transportation systems and networks, and open space;
- Be suitable for the area, considering existing and planned neighborhoods, retail and employment areas, and natural resource and hazards;
- Be integrated with existing developed or planned areas;
- Meet the City's adopted Great Neighborhood Principles.

Development of Properties Less Than 10 Acres

Land less than 10 acres in size may be annexed into the city and rezoned without the adoption of a master plan, however, are subject to the comprehensive plan map amendment and zone change review processes. These developments must:

- Be consistent with the uses identified in the area plan;
- Meet the City's adopted Great Neighborhood Principles;
- Include a local street plan that complies with the Area Plan, the McMinnville TSP, and other local street block length and connectivity requirements;
- Be consistent with all other required policies and standards of the McMinnville Comprehensive Plan and Zoning Ordinance.

Neighborhood Activity Center (NAC) Overlay District

The NAC Overlay may be applied to the partial Neighborhood Activity Center, which would require less than the average acreages for each land use portion listed in the overlay zone because it is only a partial NAC. The NAC Overlay permits mixed-use developments such as ground floor commercial with above ground residential or office space. The Neighborhood Activity Center Planned Overlay enables lands designated as activity centers to develop as integrated, high-quality, mixed-use, pedestrian-oriented neighborhoods. Utilizing this district overlay will help minimize traffic congestion, suburban sprawl, infrastructure costs, and environment degradation. Specifically, the policies and procedures section of the chapter provides guidelines for Mixed Land Use that promotes easy access among store and services for pedestrians.

Shown on the Area Plan Map, the NAC follows the location guidelines implemented by the overlay chapter. This includes the following requirements (shown in Figure 9 as radiuses around the focus area):

- Maximum distance that nonresidential uses may radiate outwards from the center -1/4 mile
- Maximum distance from the edge of the focus area for HDR within the support area -1/8 mile
- Maximum distance from the edge of the focus area for MDR within the support area -1/4 mile

By providing mixed-use developments and meeting the location requirements for high-density and medium-density housing, the NAC Overlay helps achieve accessible, attractive, and safe development.

Recommended Amendments

Design guidelines for the neighborhood commercial zone.

At the present time, McMinnville has adopted Residential Design Standards for new housing developments within the City. However, design guidelines for commercial developments have yet to be adopted. After adopting the Fox Ridge Road Area Plan, the City should work towards developing and implementing commercial design standards for the Neighborhood Commercial Zone that help achieve the goals and policies of the Area Plan and the Great Neighborhood Principles.



FOX RIDGE ROAD AREA PLAN

DOCUMENT REVIEW AND EXISTING CONDITIONS REPORT DECEMBER 2023

DOCUMENT REVIEW AND EXISTING CONDITIONS REPORT

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MEMORANDUM

City of McMinnville – Fox Ridge Road Area Plan



Date:	December 22, 2023	
То:	Tom Schauer, City of McMinnville	
From:	Thuy Cao, HHPR	
Subject:	City of McMinnville Fox Ridge Road Area Plan Task 1.2: Document Review and Existing Conditions Report	

INTRODUCTION AND PURPOSE OF THIS PLAN

This project will adopt an area plan for the Fox Ridge Road Area which is consistent with the Comprehensive Plan and with the Framework Plan that was adopted in 2020. Appendix G of the MGMUP provides the Framework Plan and describes the Area Planning process.

PURPOSE OF THIS DOCUMENT

Development of the Fox Ridge Road Area Plan includes consideration of technical issues and community engagement and input. This document includes a review of data and existing plans, policies, standards, and regulations that need to be considered in development of the Fox Ridge Road Area Plan. It also includes a summary of other planning documents that are in the process of being updated. The work with this area plan will also help inform coordination with those planning efforts. This document review and existing conditions report will identify issues and parameters that guide development of the plan and inform community engagement. With the community engagement efforts, valuable information about existing conditions and neighborhood assets also supplements this report.

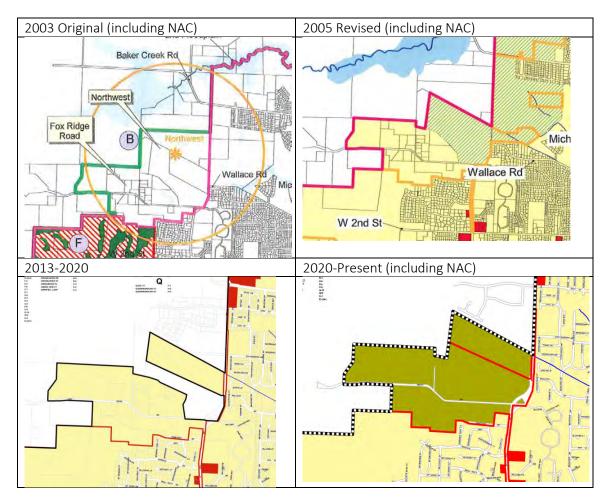
This document also includes a discussion of the existing conditions and characteristics of the Fox Ridge Road Area to be considered in development of the plan. Existing conditions are summarized graphically in an Existing Conditions Map attached as Exhibit 1. The above information has been analyzed to identify issues affecting development of the plan. That analysis is summarized in Section 5.0 of this document and in the Opportunities and Constraints Analysis map attached as Exhibit 2.

There may also be aspects of this work that will help inform coordination with other plans which are in the process of being updated, including public facility plans, the Parks, Recreation and Open Space Master Plan, and the Transportation System Plan.

1.0 BACKGROUND

The City of McMinnville adopted the McMinnville Growth Management and Urbanization plan (MCMUP) in conjunction an amendment to its urban growth boundary (UGB). Between two phases, the MGMUP amended McMinnville's UGB by 924 gross buildable acres. The MGMUP was originally adopted in 2003 and refined in 2005. The original UGB expansion included 1,052 acres. Of this, 259 acres was able to become part of the UGB, and the remainder was challenged on appeal. The City addressed a remand order in 2013, removing some areas from the UGB that were previously added to the UGB and approved by DLCD and LCDC in 2005. In 2020, the City added 665 gross buildable acres to the UGB as Phase 2 of the amendment, which was approved, totaling 924 gross buildable acres between Phase 1 and 2.

The original 2003 UGB amendment included all of the property currently in the Fox Ridge Road area and additional contiguous property to the north. A portion of that was subsequently removed in the 2005 refinement, which resulted in the same boundary of the Fox Ridge Road area as now exists. Part of that was subsequently removed in 2013 as a result of the appeal and remand, being added back again with the 2020 UGB amendment.



Therefore, the boundary in this area is the same in 2020 as it was in 2005, which also included planning for a portion of a Neighborhood Activity Center (NAC). Much of the public facility planning was conducted after the 2005 plan was adopted and approved by DCLD and LCDC and before the 2013 amendments in response to the remand. As a result, much of the public facility planning

which was conducted after the 2005 UGB amendment occurred before the 2013 amendment and was therefore based on the same boundary for the Fox Ridge Road area boundary that currently exists following adoption of the 2020 UGB amendment.

Most of the land added to the UGB has been placed into an Urban Holding (UH) comprehensive plan designation. All land within a UH comprehensive plan designation must undergo an area planning process prior to annexation into the city limits, rezoning, or development. The City of McMinnville has committed to investing and processing one area plan each year. The first area plan initiated by the City is the Fox Ridge Road Area Plan. The Fox Ridge Road Area is known as the area around Fox Ridge Road, as well as the property of about 41 acres in City limits owned by the School District for a future high school site (see Framework Plan). Collectively, the Fox Ridge Road study area is comprised of approximately 230 acres. With the exception of the property owned by the School District, which is in City limits, the other properties are within the UGB but outside City limits. Those properties continue to be subject to County zoning and land use regulations until property owners apply for annexation into City limits.

Fox Ridge Road Area Map



The Area Planning process and Area Plans guide future development as individual property owners within the UGB seek annexation to the City.



2.0 PROJECT GOALS

This project will adopt an area plan for the Fox Ridge Road Area which is consistent with the Comprehensive Plan and with the Framework Plan that was adopted in 2020. Appendix G of the MGMUP provides the Framework Plan and describes the Area Planning process. The Framework Plan also provides information regarding the area plans for the different areas in the UGB. It provides the following information for the Fox Ridge Road Area Plan:

The Fox Ridge Road Area Plan will primarily be housing. However the Fox Ridge Road Area Plan will include a significant land use within the site that is owned by the McMinnville School District and identified for the development of a future high school. The high school site will be within the northern portion of the Fox Ridge Road Area Plan.

The Fox Ridge Road Area Plan should also provide an opportunity for a partial or half of a Neighborhood Activity Center (NAC) along the area's Hill Road frontage between the Wallace Road roundabout and the intersection of Fox Ridge Road. This modified and reduced NAC should be approximately 5 - 10 acres, with approximately 1 - 2 acres of neighborhood serving commercial and office development, approximately 2 acres of high density residential development (R-5), and approximately 2 - 5 acres of medium density residential housing. The remainder of the residential land within Fox Ridge Road Area Plan will likely be suitable for lower density residential housing, where the lands begin to exhibit steeper slopes within the southern and western portions of the Fox Ridge Road area.

To further provide services to support this residential area and to accommodate the park land need identified in the MGMUP, the Fox Ridge Road Area Plan should incorporate one neighborhood park of approximately 3 - 5 acres in size. The neighborhood park should be placed to ensure that every residence is within a ½ mile of a neighborhood park, and due to slopes should likely be placed in the northern portion of the area. The Fox Ridge Road Area also includes several natural and geographic features that provide an excellent opportunity for a natural resource community park. Natural greenspaces or greenways should be considered that could connect the Fox Ridge Road Area to the West Hills and Redmond Hill Road area, potentially in the form or a ridgeline greenway/greenspace. A greenway/greenspace could also serve to preserve the tree stands in the Fox Ridge Road and West Hills areas that currently provide habitat for protected avian species.

Connectivity and coordination with the development of the high school site will be important in the Fox Ridge Road Area Plan. Land uses should anticipate the development of this major community feature, and land uses should transition appropriately to surrounding areas. Any trail networks considered should incorporate connectivity to the high school site. Bike and pedestrian connectivity should also be considered in the Area Plan, with consideration of connecting to the existing trails and linear parks (BPA and Westside trail systems) that are located just east within the existing UGB and may be able to be linked via Wallace Road. The following illustrative map from the Framework Plan provides a high-level concept of these provisions:



The Framework Plan also outlines the potential assignment of land needs associated with the UGB amendment to the different areas, as shown below:

Land Need		Southwest	Fox Ridge Road	Riverside South	Redmond Hill Road	Booth Bend Road	Riverside North
Residential		1.			1.0.0	1	
R-5	36 acres						
Parks							
Neighborhood Park	88.11 acres						
Community Park	58.84 acres						
Greenways/Natural Areas	106.81 acres						
Schools	43 acres						
Commercial	39.3 acres						
Industrial	Surplus	1	5	1		1.1	

Potential Assignment of Land Need:

The Parks, Recreation, and Open Space Master Plan is currently in process of being updated. However, the adopted 1999 Plan defines park types, provided in Table 1, which provides information regarding typical sizes of different types of parks. Neighborhood Parks are typically 5-13 acres and Community Parks are typically larger than 12-13 acres.

Table I PARK SYSTEM DEFINITIONS

Types of Facility	Definition	Benefits	Size Criteria	Includes	Does Not Include	Site Selection Criteria	Maintenance Level and Standard
Mini-Park/Playlot	Mini-parks, urban plazas, or playlots provide recreation opportunities for residents in ansa not adequately served by neighborhood parks, such as town centers or areas of high density development.	recreational needs of residents; provides space for community events; balances high density development and communicates neighborhood character.	2500 square feet to 1 acre	Mini-parks or playlots may include passive or low intensity activities, such as children's play areas, pathways, multi- parpose paved mass, public art, small scale sports facilities, seating, picnic areas, community gardens, multipurpose performance space, and landscaping.	Mini-parks would generality not include high intensity sports facilities, restrooms, or off-street parking.	Mini-park sites are generally level, and the site should have physical characteristics that are appropriates for its intended use, such as well-charined softs and desirable opcography. The parks should be accessible by sidewalks and/or interconnecting traits, and bike lanes or low traffic streets.	Maintenance standards will vary depending on design features. Urban plazes in high density areas should ublize NRPA Minkreance Model - Irequent to very frequent natintenance. In low density rasidential areas, mini-parks should utilize NRPA Maintenance Mode III - moderate level maintenance.
Neighborhood Park	the parks and recreation system, providing accessible recreation and social opportunities	identity.	5 to 13 acres	Neightorhood parks should include both passive and active represention opportunises, such as children's play areas, informal sports areas, picnic facilities, public art, open turf areas, landscaping, community gardens, and pathways. Security lighting may be provided if needed.	Neighborrhood parks generally do not include facilities for large groups, such as sports sournaments, off strete parking, or permanent restrooms. Activities that result in oversum, noise, parking problems and congestion should not be provided.	Neighborhood parks should be located within a 1/2 mile radius of residences without crowing a major strene for easy generally level, and sites with natural aesthetic appeal are most desirable. Locating neighborhood parks next to other park system components, such as greenway, increases use and desirability. Neighborhood parks should be located adjacent to schools and fire stations whenever possible.	Neighborhood parks should utilize NRPA Mainteenance Mode III - modernte mainteenance to maintain the appearance and functional use of facilities and to support public salaty.
Community Park	than neighborhood parks. Community parks often include developed facilities for	recreation opportunities for all age groups; provides environmental education opportunities; serves		In addition to those amenities provided at neighborhood parks, community parks may include sports facilities for team phy, group provic arriss, skateboard and rollerblade facilities, natural arreas, bouncial gardens, amphiticeaters, featbol space, swimming pools, interpretive facilities and community centers. Higher quality, children's play areas may be provided to create a family play destination.	Facilities that do not meet recreation needs.	The site should have physical characteristics appropriate for both active and passive recreation, such as suitable soils, positive drahage, varying topography, and a variety of vagetation. A naturally attractive site character is highly desirable. Land within the flood plain should generally be considered only if facilities are to be located above the 100- year flood elevation.	Community parks should utilize NRPA Maintenance Mod II - high level maintenance - in developed portions to maintain the appearance and functional use of facilities, an to support public safety. In natural areas, NRPA Maintenance Mode IV - moderately low maintenance - should be utilized.
Linear Park	facilities to meet neighborhood needs,	provides environmental education opportunities; provides opportunities for trail-oriented activities and provides access to basic recrastion opportunities for nearby residents of all ages to	to protect natural resources and accommodate intended uses.	Linear parks can include paved or soft-surfaced trails to accommodate jogging, bking, walking, skateboarding, dogwalking, horseback riding, canceling or rollerblading. Active and passive recreation facilities may include small- scale sports facilities, such as hasterball hoops, children's play equipment, off-leash dog areas, seating, public art, picnic tables, lighting, community gardens, and landscaping.	Recreation facilities intended for large groups, parmanent restrooms, and off- street parking are generally not provided.	Although natural corridors, such as creeks and rivers are preferred, opportunities to create built corridors should be strongly encouraged. Built corridors are constructed during development or redevelopment, such as corridors created in residential subdivisions, rentalized vaterfronts, abandoned mircad beds, readway right-of-vays, builesards, utility right of- ways and drainage-ways. The minimum corridor width should accommodate a multi-use trail plus builter planting (approx. 24 feet).	Mode IV - moderately low maintenance - should be
Special Use Park	A special use park is a facility for a specialized or angle recreational activity, including basenic and cultural sites, and recreation facilities.	Meets the recreational needs of the community: preserves historic, natural, and cultural resources; provides life-long educational opportunities and provides opportunities for community wide social events.	suitable for its use.	Historic and Cultural Sites: these may include local historical resources, arts facilities, public gardem, nature centers and amplitheaters. Rearwation Pacificities: many of these facilities may be located in park facilities, especially in community parks, some single purpose facilities may be treestanding, such as community centers, smith centers, golf courses, sports facilities, auch as seating, interpretive signage, public art and prioric tables should be provided to increase function, use and attractiveness.	needs.	The physical site should be appropriate for the intended use. The site should be accessible by arranial and collector streats, and by public transportation and the Clayvide trail system. A central location is preferred. Depending on the facility type and adjacent uses, locating special use facilities in parks or adjacent to other public facilities may be preferable for increased safety and security.	high use may require NRPA Maintenance Mode I or II - high level maintenance to maintain functional use of
Greenspace / Greenway	resources and provides wildlife habitat. It also provides opportunities for nature- related outdoor recreation, such as viewing	Protects valuable natural resources: protects wildlife; contributes to the environmental health of the community and provides opportunities for outdoor recreation, environmental education, and trail-oriented activities.	adequate to	Developed features that support outdoor recruation and trail-oriented recreation may be provided, such as trails, prioric areas, benches, interpreteries signs, and eative landscaping. Trail-based amenities, such as small scale parking, portable restrooms, bike racks and trash enclosures, may be included.	Facilities that do not directly support outdoor mernation and trail-oriented merceasion should note be included, such as ornamental plants, Iswms, and active recreation facilities.	The quality of the resource is the more important determinant for site selection. In addition, sites that provide medium to high potential for entriannential education, aesthetics or buffering qualities, and outdoor or trail-oriented recreation are preferred. The minimum corridor width is approximately 100 feet.	NRPA Holinearance Mode IV - moderately low maintenance - should be utilized to support the natural character of the area, to maintain functional use of facilities, to provide fire and hazard mitigation, and to support public safety.
Trails and Connectors	A public access route for commuting and trail oriented recreational activities, includes gadewalks, bitaways, multi-use trails and paths.	Provides opportunities for trail- oriented activities; reduces auto- dependency; and connects community facilities and neighborhoods.	and right-of-way depends on its intended use and	A variety of pathways types are needed to accommodute activities such as walking, running, biking, dogwalking, follerbaking, skaeboarding, and horseback riding. Trails can be located within parks, within linear parks and greenways, or be designed as a part of the Citywide transportation system. Waterways can provide uruil-like fsetilities for bosting and canceing. Each type of trail should be designed to safely accommodate users, and meet recommed design standards.	Active recreation facilities and facilities that do not directly support outdoor recreation and ural-iontexed recreation should not be included, such as ornamental plants, lawns, and active recreation facilities.	bicycle system that connects all components of the park	Hardsurfaced traits should utilize NRPA Maintenance Mode II - moderate livel maintenance - in developed portions to maintain the apparenance and functional use of facilities, and to support public safety. For soft surfaced traits, NRPA Maintenance Mode IV - moderately low maintenance - should be utilized to support the natural character of the area, to maintain functional use of facilities, to provide fire and hazard mitigation, and to support sublic safety.

Reference: Park Maintenance Stanolards, National Recreation and Park Association (NRPA), 1986.

3.0 EXISTING CONDITIONS

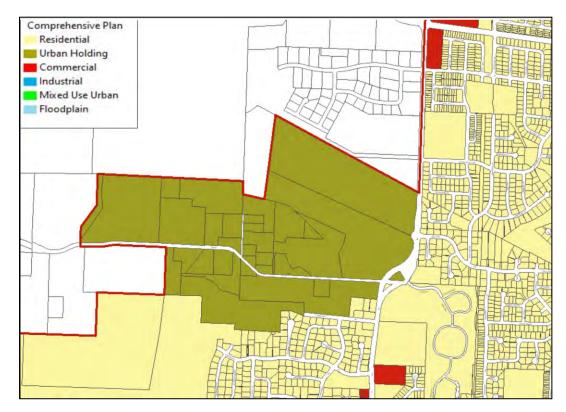
3.1 PROPERTY AND DEVELOPMENT PATTERNS

Among other data collected for UGB areas as part of the MGMUP, data was collected and analyzed for the buildable land analysis. Properties were classified as part of the analysis. With a few exceptions, most of the properties with rural-residential zoning have been divided and developed consistent with the rural residential lot sizes authorized by county zoning. Other than the School District property, the properties with AF-10 and EF-80 zoning are generally the largest properties in the area which are predominantly vacant, at approximately 33 acres and 24 acres respectively.

3.2 LAND USE AND ZONING

The Fox Ridge Road Area is within McMinnville's Urban Growth Boundary (UGB). Most of the area is unincorporated, outside City limits. However, the property owned by the School District, approximately 41 acres, was previously annexed to the City, and is the only property within the Fox Ridge Road area already in City limits.

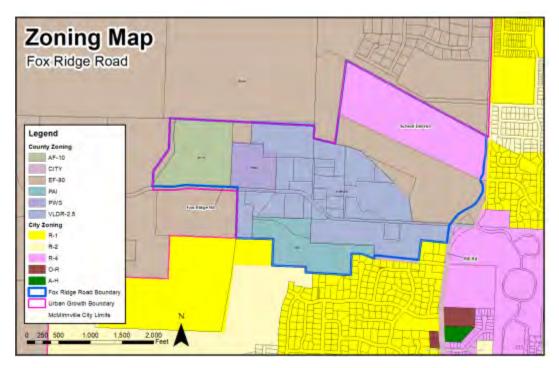
Comprehensive Plan Map. The properties in the area have a Comprehensive Plan Map designation of Urban Holding (UH), which means the Area Planning/Master Planning process applies prior to annexation, to address the different land uses planned for the area.



Zoning Map. The School District property was annexed and was rezoned to R-4 PD in 2005, applying a Planned Development Overlay to the property (Ordinance 4829). That ordinance specifies the use of the property is limited to a public high school and ancillary use, subject to an approved conditional use permit.

The other properties in the Fox Ridge Road area are unincorporated. Therefore, they are currently subject to the County zoning and county land use regulations which continue to apply to those properties unless/until they are annexed and rezoned to City zoning. Therefore, any land use and building permit applications for those properties are processed by the County prior to annexation.

The predominant county zoning of the area is rural residential (VLDR-2.5) in the central area, with agricultural zoning (AF-10 and EF-80) of properties near the west end of the Fox Ridge Road area and south of the School District property. Public and institutional use zones apply to the McMinnville Water and Light property and the cemetery.



Existing Land Uses. The properties with VLDR-2.5 zoning are predominantly developed with single-detached homes, with approximately 19 developed homesites, with most situated to take advantage of the views of McMinnville, the Willamette Valley, and the surrounding hills and mountains. Most of these residential sites have existing barns, storage buildings, workshops, or other assorted outbuildings.

Other existing uses in the area include the Masonic Cemetery, McMinnville Water and Light facilities, the Christmas tree farm, and the quarry.

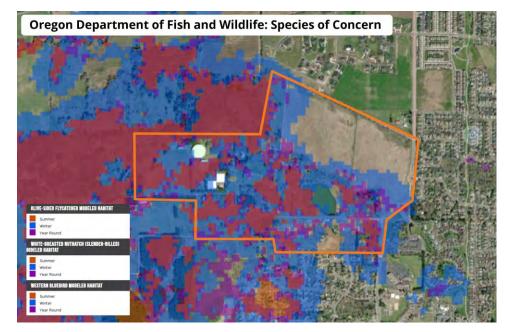
The MGMUP and Framework Plan, adopted as part of the Comprehensive Plan in 2020, outline the planned land uses for the Fox Ridge Road area, summarized above in this document.

3.4 NATURAL FEATURES

Data regarding natural features was inventoried as part of the MGMUP planning work. The City has also initiated work on a "Goal 5" (Natural Resources) per state law.

3.4.1 HABITAT AND NATURAL FEATURES

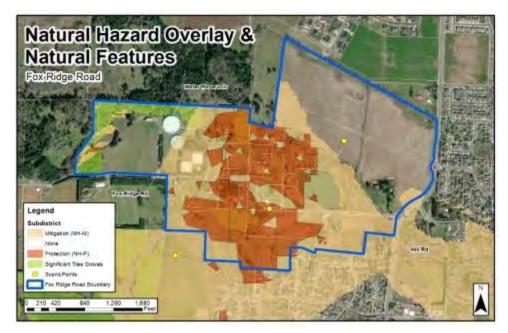
The Fox Ridge Road Area includes several existing natural and geographic features. Existing tree groves are shown on the Opportunities and Constraints Diagram. The area also includes winter, summer, and year-round habitat for three avian species identified by ODFW as Specifies of Concern: Western Bluebird, White-Breasted Nuthatch (Slender-Billed), and Oliver-Sided Flycatcher. The quarry pond is also used by wildlife. There are opportunities to coordinate natural greenspaces or greenways to connect the Fox Ridge Road Area to the West Hills and Redmond Hill Road areas. Greenway/greenspace features could also be located to minimize impacts to the significant tree stands in the Fox Ridge Road and West Hills areas that currently provide habitat.



3.4.2 HAZARDS

As part of the analysis of study areas conducted for the UGB study areas, the City inventoried hazards. The predominant hazards in the Fox Ridge Road area are geologic and wildfire hazards. There is no mapped floodplain within the Fox Ridge Road area. Following the 2020 UGB amendment, the City initiated planning for "Goal 5" (Natural Resources) and "Goal 7" (Natural Hazards). The Natural Hazards Planning work is in the public hearing process. The plan includes proposed implementation measures that establish two overlay zones based on a composite hazard rating: a mitigation zone (NH-M) and a protection zone (NH-P). *See map below.* Areas within the NH-P overlay would be subject to limitations on further land division and development. The implementation measures also include a proposal for transfer of density to allow density/development rights to be transferred to portions of the property or to other properties outside of the NH-P overlay area.

The overlays won't apply to properties unless/until they annex into City limits. Properties remain subject to county land use regulations unless/until annexed.



3.4.3 TOPOGRAPHY

The City made findings describing the topography of areas, including, the Fox Ridge Road study area, as part of the MGMUP work, including analysis of slopes. Mapping of moderate (15-25%) and steep (>25%) slopes was conducted. The steep slopes are shown as part of the information on the attached Opportunities and Constraints diagram.

3.4.4 LANDSCAPE AND VIEWS

The Fox Ridge Road area is characterized by its moderate to steeply sloping terrain, dense stands of mature tree groves and the expansive views of the surrounding lands. The north and northeast portions of this study area are larger parcels that have historically been agriculture. The area slopes upwards from NW Hill Road to the west, affording some of the best views of McMinnville within the area. In addition to encouraging the preservation of the existing landscape to the extent possible, the Fox Ridge Road Area Plan intends to incorporate one neighborhood park of approximately 3-5 acres in size, as well as greenways or trails throughout the area for both passive and active recreational opportunities within the area.

3.5 INFRASTRUCTURE AND SERVICES

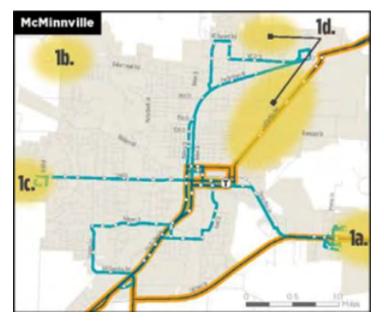
3.5.1 TRANSPORTATION

Fox Ridge Road itself is a paved, County rural road with no sidewalks, curb or gutter. The road extends westward from Hill Road providing the only means of public vehicular access into the study area. Fox Ridge road generally travels along the ridgeline that cuts east-west through the study area's midsection. Additional access to individual parcels within the study area is provided by long and narrow private driveways and Dawson Lane. The right-of-way dimension for Fox Ridge Road measures 40-feet in width, and includes a constructed paved surface that

averages 25-feet in width with narrow gravel shoulders on either side. The road will require improvements as the area urbanizes to meet City design standards. The City's complete street standards provide for curb, gutter sidewalk, and planter strips on both sides of the street. The standard for a local street specifies 28 feet paved width within a 50-foot right-of-way. The plan may consider an alternative section that provides for a separated multi-use path.

Hill Road was recently constructed with curb, gutter, sidewalk, bike lanes and landscaping. The intersection with Wallace Road was constructed with a roundabout, designed to accommodate a fourth leg to the west. The intersection at Hill Road and Fox Ridge Road is currently a through movement on Hill Road with stop-sign control on Fox Ridge Road. Information regarding the Transportation System Plan is provided below in the "Planning and Regulatory Framework" section. Please see information in that section below.

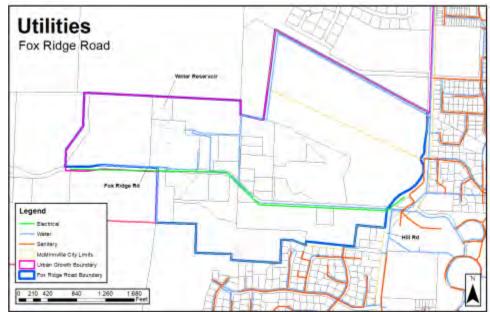
The County adopted an updated transit plan in 2018, and the City subsequently adopted this as part of the transportation plan. Transit service is not currently present along Hill Road, but the transit plan identifies future transit service areas. The City should continue to coordinate with Yamhill County regarding coordination of transit to serve Hill Road. The plan identifies potential future service along Hill Road which could ultimately benefit the Fox Ridge Road study area. See the figure below (*Figure 2-11 from the YCTA plan identifying areas that would potentially benefit from future transit service*). The Fox Ridge Road study area is located between areas 1b and 1c. Higher densities and other plan elements within the area would potentially increase the demand for these services sooner than later.



The City will also be coordinating with Yamhill County Transit as part of the Fox Ridge Road Area Plan in order to better understand the potential for future public transit services to connect Baker Creek Road, Hill Road, and 2nd Street. Yamhill County Transit updated their transit plan in 2018, with future short- to long-term service expansions discussed within the region. The transit plan indicates that,

"McMinnville's R-3 residential zoning district allows nearly 12 units per acre and the R-4 residential district allows for higher-density developments (over 20 units per acre), which could support transit service that is more frequent than today; however, current residential density in the city is relatively low, even in areas currently zoned for medium- or higher-density housing."

Connectivity and coordination with the development of the high school site will be important in the Fox Ridge Road Area Plan. Any trail networks considered will incorporate connectivity to the future school site. Bike and pedestrian connectivity will be considered in the Area Plan, with consideration of connecting to the existing trails and linear parks (BPA and Westside trail systems) that are located just east within the existing Urban Growth Boundary (UGB). The trail system may potentially be linked via Wallace Road.



3.5.2 UTILITIES (WATER, SEWER, STORMWATER, AND OTHER)

Because the property is still unincorporated and developed under county land use regulations, urban services haven't generally been extended outside of City limits. Properties within the area are generally served by wells and private on-site septic systems, and Fox Ridge Road is constructed as a rural road. Because of the MWL facilities located in this area, there is municipal water infrastructure within this area which is extended to serve McMinnville with legacy connections to some nearby properties. Where the Fox Ridge Road area is adjacent to city limits, there are locations where urban services are present along the street frontage of the area and/or are already stubbed or planned to be stubbed to the area in public right-of-way from adjacent developments.

When properties annex to the City, they are rezoned to city zoning and develop to city standards with developer-installed provision of urban services including municipal sewer and water, and streets improved to city standards for new development. The key public facility plans are currently in the process of being updated, including water; wastewater; stormwater; transportation; and parks, recreation, and open space.

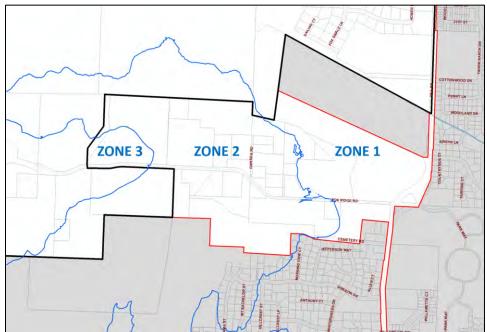
Water

McMinnville Water and Light (MWL) is in the process of updating the Water Distribution Plan. Provision of municipal water service requires a system that meets domestic needs, provision of water for fire-fighting, and adequate flows and minimum and maximum water pressures. This requires a system designed with different water pressure zones based on the elevation range of the area being served. Nearly all of McMinnville is in Water Pressure Zone 1, and the system is designed to serve this zone. Serving higher elevation zones requires separate storage, gravity, and/or pumping facilities for the higher elevation zones. Properties in the Fox Ridge Road Area include elevations corresponding to pressures Zones 1, 2, and 3. The corresponding elevations are:

- Zone 1: 0'-250'
- Zone 2: 250'-400'
- Zone 3: 400'-538'

These are shown on the map below.

Approximate Water Pressure Zone Boundaries



The Zone 1 properties can be served without the need for a higher level reservoir or a pump station which will be needed to serve Zones 2 and 3. To date, properties in Zone 2 and 3 have generally not yet been served with water, with limited exceptions. (A few homes at the threshold between Zones 1 and 2 were previously developed using private booster pumps, but that is not an option for serving an entire service area within a pressure zone). MWL owns a site intended for a future reservoir to serve Zone 2 west of this area. In the interim, there can be consideration of how to best phase service to serve smaller/phased developments and address the funding of the necessary pump station or reservoir improvements if there isn't initially a critical mass or economy of scale sufficient to distribute fixed costs among new homes to be served in the early development phases or when properties aren't contiguous.

Sanitary Sewer

The Sanitary Sewer Conveyance System Mater Plan was adopted in 2008. The City of McMinnville is currently in the process of updating the plan. The 2008 master plan addressed future growth within the UGB including the Fox Ridge Road area.

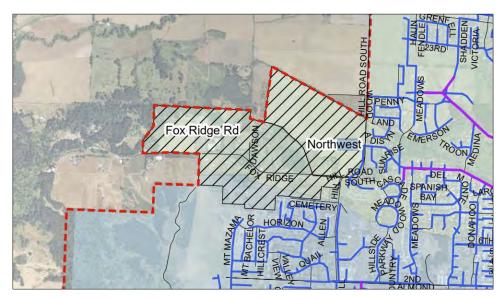


Table 3-5. Developed Land Within Proposed UGB - Future Additional

Basin	Resid	ential	Commercia	Total	
	Acres	EDUs	Acres	EDUs	EDUs
Airport	261	831	231	2,772	3,603
Cozine	500	2,209	16	192	2,401
Downtown	11	48	28	336	384
Fairgrounds 361 1,307		1,307	1,307 192	2,304	3,611
High School	5	25	8	96	121
Michelbook	400	1,590	14	168	1,758
Yamhill	1	3	0	0	3
Total	1,539(1)	6,013	489	5,868	11,881

 Includes approximately 531 acres containing residential land designation that has been identified for use other than for housing—schools, parks, religious, government, semi-public services, and infrastructure.

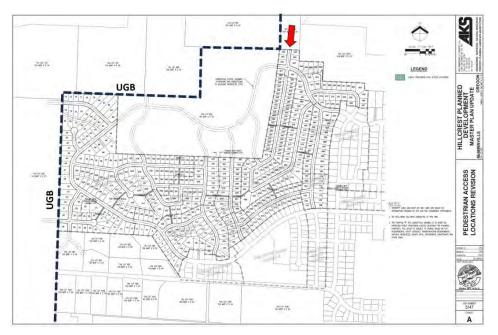
Table 3-6 summarizes the total area distribution of developed land within the planning area at buildout.

Table 3-6. Developed Land Within Proposed UGB - Buildout Total Net Area

Basin	Residential (Acres)	Commercial/Industrial (Acres)	Total Acres	
Airport	373	396	769	
Cozine	1,097	64	1,161	
Downtown	208	169	377	
Fairgrounds	655	661	1,316	
High School	332	126	458	
Michelbook	640	19	659	
Yamhill	53	19	72	
Total	3,358	1,454	4,812	

Gravity flow is more cost-effective than pumping. Due to the site's topography, sanitary sewer effluent would gravity flow in two general directions: to the east into the Michelbook basin; and, to the south into the Cozine basin. There are opportunities to connect to the existing system where conveyance pipes are present to the east at Hill Road and to the south at the northerly terminus of the sewer main in Wintergreen Drive at Cemetery Road. Public sewer mains are typically installed in public right-of-way, and some of the upper elevation areas generally slope to the northeast and could gravity flow in that direction if there are adequate opportunities for public right-of-way connections or possible use of easements over public lands. Provision of a sewer line in the future street extension which is part of the Hillcrest Planned Development master plan will also provide an additional opportunity for connection to the sewer system to the south near the southwest corner of the Fox Ridge Road area.

The City conducted additional flow monitoring in 2019 and identified potential downstream capacity limitations that will be addressed in the stormwater master plan update and could require upsizing of some sections downstream pipe prior to or concurrent with development in the Fox Ridge Road area above a certain threshold.



Stormwater

The City is in the process of updating the 2009 stormwater master plan. Stormwater runoff in the study area is predominantly to natural drainageways and in part to the quarry pond. Stormwater treatment facilities are present along Hill Road and stormwater conveyance pipe is present in the adjacent neighborhoods within city limits abutting the Fox Ridge Road area to the south and east of the Fox Ridge Road area that may be connected to any new storm pipes extended as part of the area plan. There is some surface water runoff to the existing quarry pond. The water rights for the quarry are separately owned from the land. The water collected in the quarry pond currently provides irrigation water to the golf

course property and the West Wind development to the north. As part of new development, stormwater management plans are required.

<u>Electric</u>

There are existing feeders on North Hill Road that would have to be upgraded to accommodate the additional projected load.

Resource	Facility	Address	Location
	Newby Elementary School	1125 NW 2 nd St	1 mile – East
	Duniway Middle School	575 NW Michelbook Ln	1 mile – East
Schools	Memorial Elementary School	501 NW 14 th St	1.5 miles – East
	McMinnville High School	615 NE 15 th St	2 miles – East
Higher	Linfield University	900 SE Baker St	2 miles – SE
Education	Chemeketa Community College	288 NE Norton Ln	3.5 miles – SE
	Jay Pearson Neighborhood Park	2120 NW Yohn Ranch Dr	0.6 miles – NE
Parks	Westside Bicycle and Pedestrian Greenway	Runs north/south NW Baker Creek Rd to SW 2 nd St	0.5 miles – East
	McMinnville Linear Park	Runs east/west S. Agee St to SW Westvale St	0.6 miles – SE
	Oregon Whole Health	349 SE Baker St	1.6 miles – SE
Hospitals	Physicians Medical Center	2435 NE Cumulus Ave	3.3 miles – SE
	Willamette Valley Medical Center	2700 SE Stratus Ave	3.3 miles – SE
Police	McMinnville Police Department	121 SE Adams St	1.6 miles – SE
Stations	Yamhill County Sheriff's Office	535 NE 5 th St #143	1.8 miles – SE
Fire Station	McMinnville Fire Department	175 E 1 st St	1.6 miles – SE
Playground	Scotty's Playhouse Indoor Playground	700 NW Hill Rd	0.1 mile – East
	The Manor at Hillside Retirement Community	900 NW Hill Rd	0.1 mile – East
	The Village at Hillside Assisted Living Facility	440 Hillside Pkwy	0.3 mile – SE
Senior Care	Traditions at Hillside Retirement Community	300 Hillside Pkwy	0.3 mile – SE
	Vineyard Heights Assisted Living Facility	345 SW Hill Rd	0.5 mile – South
	McMinnville Memory Care	320 SW Hill Rd S	0.5 mile – South
Cemetery	Masonic Cemetery	NW Cemetery Rd	0 miles

3.5.3 COMMUNITY FACILITIES AND PROXIMITY

4.0 REGULATORY CONTEXT AND PLANNING FRAMEWORK

The Fox Ridge Road Area Plan will be adopted as a supplement to the McMinnville Comprehensive Plan and adopted by the City Council as a guiding land use document. The Area plan must embody the development principles of the McMinnville Comprehensive Plan, including the MGMUP, the Framework Plan, and other applicable City land use policies. The MGMUP provides guidance for the planning and development of fully integrated, mixed-use, pedestrian-oriented neighborhoods. The Area Plans are expected to be developed consistent with:

- 1) The guidelines of the Traditional Neighborhood model, as described in the McMinnville Growth Management and Urbanization Plan.
- 2) Neighborhood Activity Centers (NACs) to meet neighborhood commercial land needs as identified in the MGMUP Framework Plan, and support surrounding residential development.
- 3) The City's adopted Great Neighborhood Principles, as described in Comprehensive Plan Policies 187.10 through 187.50.

4.1 MCMINNVILLE GROWTH MANAGEMENT AND URBANIZATION PLAN

Traditional Neighborhood Model Guidelines

As highlighted in the MGMUP, McMinnville's plan for urbanization is modeled around the planning and development of a "traditional neighborhood," designed to be fully integrated, mixed-use, and pedestrian oriented. This type of development includes narrower streets that emphasize pedestrian orientation and scale, highly connected street patterns with small blocks or grids, streets lined with trees and sidewalks on both sides, and diverse housing types and lot sizes that are intermixed throughout the neighborhood. Uses and housing types are mixed and in close proximity to one another, with public spaces such as neighborhood parks or plazas serving as focal points for community interaction. As an essential feature, the McMinnville model for a traditional neighborhood calls for a neighborhood activity center at the heart of the neighborhood to provide opportunities for social interactions, structure to surrounding land uses, and neighborhood identity. The concept of a traditional neighborhood aims to minimize traffic congestion, suburban sprawl, infrastructure costs, and environmental degradation.

To be consistent with the MGMUP, the Fox Ridge Road Area Plan will follow the guidelines set forth for the development of a traditional neighborhood model. As the Area Plan is conceptually planned and refined, key considerations for the subarea include mixed-use planning that integrates diverse commercial and residential developments, pedestrian oriented and connected streets, and public green spaces as social gathering opportunities. A partial neighborhood activity center is expected be a focal point of the subarea.

4.2 MCMINNVILLE FRAMEWORK PLAN

The Framework Plan is Appendix G of the MGMUP, adopted in 2020 as part of the Comprehensive Plan.

Neighborhood Activity Centers (NACs)

The MGMUP emphasizes Neighborhood Activity Centers as the most critical element of the City's growth management and land use plan. Accordingly, the Framework Plan identifies general locations for NACs. Surrounding the neighborhood activity center are residential uses with the highest-density housing developments that progressively decrease in density outward from the activity center.

According to the MGMUP:

- The location of a neighborhood activity centers should be selected based on their proximity to vacant buildable land.
- Have the ability to accommodate higher intensity development.
- Provide local context with the ability to foster the development of a traditional neighborhood.
- Located at major street intersections with their service areas extending to a group of neighborhoods ranging from a one (1) to three (3) mile radius.
- The focus area of a neighborhood activity center should contain facilities necessary for day-to-day activity (such as personal services, grocery and convenience shopping, schools, places of worship, limited office space, public plazas or parks) and ideally located within close proximity to one another in the focus area so that all essential services for the subarea are easily accessible in a single stop.
- The support areas that surround the activity center's focus area should contain the neighborhood's high- to medium-density housing options and enables the highest concentration of population to easily access the focus area within walking distance (reducing the number of automotive trips for daily needs or services and allows for a single transit stop to serve the shops, services, and adjacent higher-density housing in the subarea).

Shown in the MGMUP Framework Plan, the Fox Ridge Road Area Plan is planned to provide an opportunity for a partial Neighborhood Activity Center. The development of the neighborhood activity center allows for a traditional neighborhood that will be livable, healthy, social, inclusive, safe and vibrant, meeting all the Great Neighborhood Principles within the Comprehensive Plan.



Fox Ridge Road Area as shown in MGMUP Framework Plan:

As described in the Framework Plan, the partial Neighborhood Activity Center will be approximately 5 - 10 acres, with approximately 1 - 2 acres of commercial and office development to serve the neighborhood, approximately 2 acres of high-density residential development (R-5), and approximately 2 - 5 acres of medium density residential housing. This mixed-use center is proposed to be located along the area's Hill Road frontage

between the Wallace Road roundabout and the intersection of Fox Ridge Road. The remainder of residential land within the Fox Ridge Road study area is most suitable for lower density residential housing due to the presence of steep slopes and natural hazards (i.e., areas subject to landslides). The location, uses, and accessibility of the Neighborhood Activity Center ensure the study area's consistency with the City's adopted Great Neighborhood Principles described in the MGMUP.

4.3 COMPREHENSIVE PLAN – VOLUME II: GOALS AND POLICIES

Volume II of the Comprehensive Plan provides goals and policies in nine chapters by topic. Among the most critical provisions for area planning are the Great Neighborhood Principles.

Great Neighborhood Principles

Adopted in 2019, the Great Neighborhood Principles are incorporated as policies in the Urbanization Goal of Volume II of the Comprehensive Plan as Policy 187.10, described as a means to guide the land use patterns, design, and development of the places that McMinnville citizens live, work, and play. These principles ensure the livability, accessibility, safety and beauty of all new development or redevelopment. The following are the 13 principles described in the policy:

- 1. Natural Feature Preservation
- 2. Scenic Views
- 3. Parks and Open Spaces
- 4. Pedestrian Friendly
- 5. Bike Friendly
- 6. Connected Streets
- 7. Accessibility
- 8. Human Scale Design
- 9. Mix of Activities
- 10. Urban-Rural Interface
- 11. Housing for Diverse Incomes and Generations
- 12. Housing Variety
- 13. Unique and Integrated Design Elements

In order for the Fox Ridge Road Area Plan to be consistent with these principles, Comprehensive Plan Policy 187.50 provides policies on how to achieve each of the listed principles as it refers to design, location and orientation of these necessary neighborhood resources. By following the model of a traditional neighborhood and planning around the centralization of a partial neighborhood activity center, the overall development of the area plan is intended to achieve each individual principle.

4.4 TRANSPORTATION SYSTEM PLAN AND TRANSPORTATION ISSUES

The City's Transportation System Plan (TSP) was adopted in 2010. The plan was adopted prior to the 2013 UGB remand, and therefore the TSP was based on the same boundary for Fox Ridge Road that exists following the 2020 UGB amendment, and the MGMUP in place at that time also planned for a Neighborhood Activity Center in this area. See Exhibit 3-1 from the TSP below. At that time, the Comprehensive Plan designation was Residential (R). It is now Urban Holding (UH).

The Comprehensive Plan and the Transportation System Plan are plans for the UGB overall, not just the portion within City limits, so the 2010 TSP included planning for the Fox Ridge Road Area.

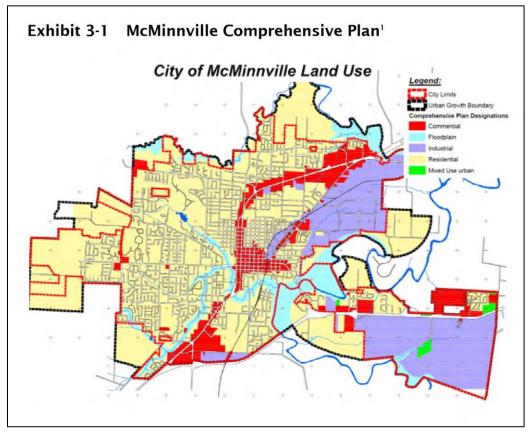


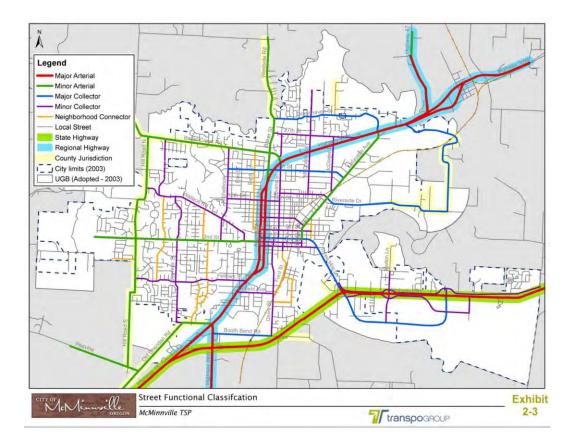
Exhibit 2-3 of the TSP, below, shows existing and planned functional classification of streets. Hill Road is classified as a Minor Arterial. The other streets in the study area are classified as local streets. These classifications are used to determine issues such as complete street design standards, access management, etc.

Complete Streets

Development per city standards includes street designs for complete streets for all modes.

Access Management

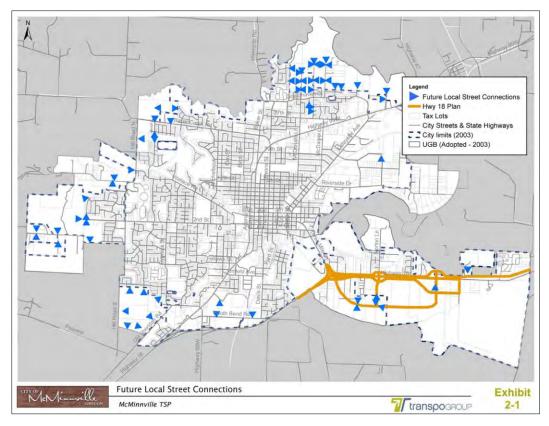
Because Hill Road is classified as a Minor Arterial, access management policies will likely limit direct access to Hill Road to the existing public streets at the west leg of the Wallace Street roundabout and the Fox Ridge Road intersection.



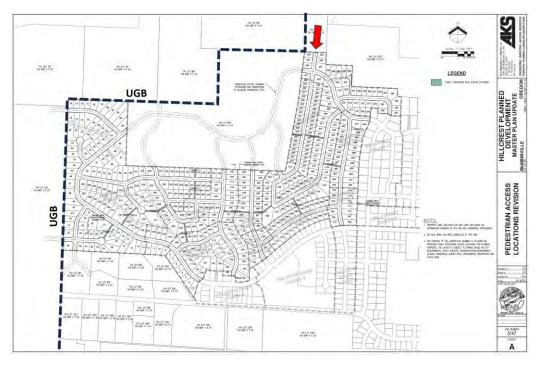
Connectivity

Transportation policies outline the need for a well-connected street network to serve all modes of transportation and to provide multiple routes for public safety ingress and egress. In part, this is achieved by street connectivity standards for land divisions that specify maximum block length and perimeter standards, limitations on the use of cul-de-sac and permanent dead-end streets, etc. In addition, the TSP includes a map which identifies where certain local street connections are critical. See Exhibit 2-1 below. This shows the approximate location of connection that are needed for local streets, without showing specific local street alignments. Connectivity for existing and future streets of higher classifications are shown on Exhibit 2-3, which also indicates general alignments needed.

Due to topography, existing parcelization, and location of existing land uses such as the cemetery and McMinnville Water and Light property, there may be some limitations to achieving street connectivity in some locations. Exhibit 2-1 identifies needs for at least local street connections from the westerly extension of Wallace Road to the south and allowing for an extension of Wintergreen Drive from Cemetery Drive north to Fox Ridge Road. Additional street connectivity to the south is limited by the location of the cemetery and the westerly extent of the UGB. There may also be limitations for street connectivity due to topography between the lower elevation northerly properties and the higher elevation southerly properties further to the west. If topography limits the extent of street connectivity for pedestrian and/or bicycle connections in those locations, as addressed in Chapter 17.53 of the Zoning Ordinance.



It is also noted that the Hillcrest Planned Development is located in City limits to the southwest of the Fox Ridge Road Area. The Planned Development has an approved master plan which includes a street connection to the Fox Ridge Road area west of the cemetery, just inside the UGB. See below.



Traffic

In the TSP, the City has established performance standards for transportation facilities. In advance of construction of the Hill Road improvements, traffic analysis was conducted in 2016, including evaluation of different intersection designs and traffic control options. The analysis evaluated the capacity of the roundabouts at Wallace Road and Baker Creek Road including traffic from projected growth. Table 6, excerpted below, summarizes the results. With existing traffic and projected growth, the roundabouts were projected to operate at Level of Service(LOS) A during both the am and pm peak hours.

2035 (Existing Cha		ting Chann	nelization) 203		35 (With Improvements)			
Int	tersection Name	Average Vehicle Delay (sec)	Level of Service	V/C Ratio	Improvement Type	Average Vehicle Delay (sec)	Level of Service ¹	V/C Ratio
A	A Peak-Hour	2						
		V Hill Road/ 32.9 V 2nd Street		0.00	Complete Streets, Stop-control	24.0	с	0.80 (EBL/T/R)
1	NW 2nd Street		D	D 0.86 (EBL/T/R)	Complete Streets, Signalization	12.5	В	0.62 (Int)
					Roundabout	9.7	А	0.63 (Int)
	Instance to be		-	12.1	Complete Streets, Stop-control	55.3	F	0.75 (EBL/R)
2	NW Hill Road/ Wallace Road	59.7	F	0.77 (EBL/R)	Complete Streets, Signalization	9.5	А	0.42 (Int)
					Roundabout	7.6	Α	0.51 (Int)
3	NW Hill Road/ NW Cottonwood Drive	1 .			Complete Streets, Stop-control	17.3	c	0.40 (WBL/R)
		Cottonwood 17.4	c	0.40 (WBL/R)	Complete Streets, Signalization	8.1	А	0.48 (Int)
					Roundabout	5.0	A	0.38 (Int)
	NW Hill Road/ NW Baker Creek Road	29.0	D	0.80 (NBL/R)	Complete Streets, Stop-control	16.6	с	0.61 (NBL)
4					Complete Streets, Signalization	12.9	В	0.43 (Int)
					Roundabout	6.6	А	0.62 (Int)
PN	A Peak-Hour						_	
		49.8 F	1	0.93 (SBL/T/R)	Complete Streets, Stop-control	30.0	D	0.92 (WBL/T/R)
1	NW Hill Road/ NW 2nd Street		E		Complete Streets, Signalization	8.4	А	0.53 (Int)
					Roundabout	9.2	Α	0.63 (Int)
	ANALISII Decedi	1			Complete Streets, Stop-control	23.9	с	0.38 (WBL/R
2	NW Hill Road/ Wallace Road	24.4 C	с	0.39 (WBL/R)	Complete Streets, Signalization	10.2	в	0.46 (Int)
					Roundabout	5.5	А	0.47 (Int)
	NW Hill Road/	Hill Road/	0	0.31 (WBL/R)	Complete Streets, Stop-control	18.3	с	0.30 (WBL/R
3	NW Cottonwood Drive	18.6	18.6 C		Complete Streets, Signalization	5.2	A	0.36 (Int)
		1.1			Roundabout	4.9	А	0.40 (Int)
	NW Hill Road/				Complete Streets, Stop-control	44.6	E	0.48 (NBL)
4	NW Baker Creek Road	52.2	F	0.92 (NBL/R)	Complete Streets, Signalization	10.2	В	0.43 (Int)
		11202				Roundabout	6.5	A

¹ Level of service is based on vehicle delay, and not on volume-to-capacity ratio.

Average vehicle delay reported in seconds.

Int. = intersection (result is reported for overall intersection operations).

Two-way stop-controlled analysis results are reported for the worst operating movement and based on HCM 2010 methodology. All-way stop-controlled analysis results are based on HCM 2010 methodology.

Roundabout analysis results are based on HCM 2010 methodology.

Additional traffic analysis is also being conducted as part of the scope of work for the Fox Ridge Road Area Plan.

Public Safety

The City has adopted street standards designed to ensure adequate access for public safety vehicles including fire trucks. Street standards specify maximum grades. In addition, fire sprinklers are required for residential and commercial structures accessed from roads with grade exceeding 12 percent slope.

4.5 TRANSIT PLAN

Yamhill County adopted a new transit plan in 2018: the Yamhill County Transit Area Transit Development Plan. In 2021, the City of McMinnville adopted this plan as a supplemental document to the McMinnville Transportation System Plan (TSP) and amended Chapter 7 of the TSP accordingly.

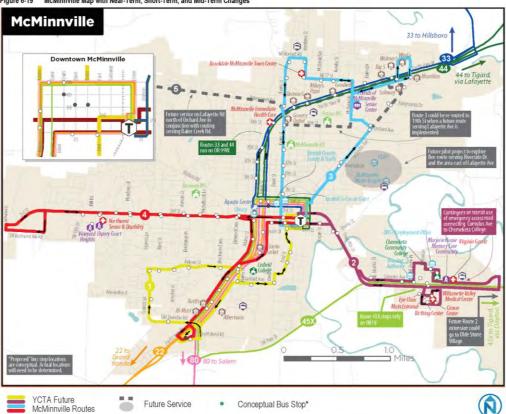
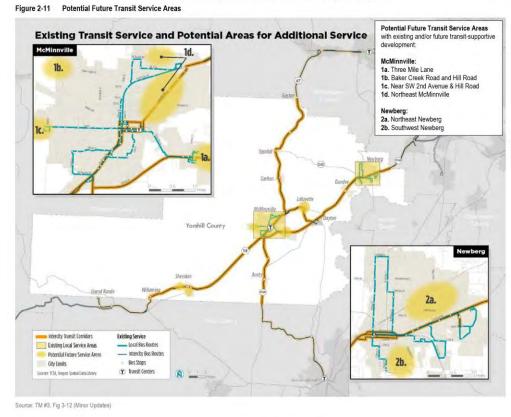
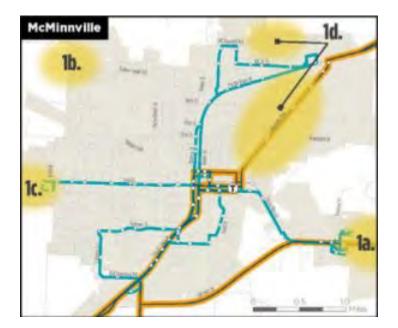


Figure 6-19 McMinnville Map with Near-Term, Short-Term, and Mid-Term Changes



Yamhill County Transit Development Plan | Volume I – FINAL

Yamhill County Transit Area | 2-18



4.6 MCMINNVILLE MUNICIPAL CODE

Key provisions of the McMinnville Municipal Code include Title 16 which outlines the process for annexation, and Title 17, which is the Zoning Ordinance. Chapter 17.10 outlines the master planning process that applies as specified in Title 16. The Zoning Ordinance also provides the procedures, land use regulations, and standards that apply to rezoning property from rural zoning to urban zoning and development of property that apply when property is within City limits.

Title 16: Annexations

The purpose of the annexation of land is to bring a property into city limits where the city is able to ensure consistency with the McMinnville comprehensive plan while providing a complete range of public services and public facilities to the annexed territory. Currently, the Fox Ridge Road area is undergoing the area planning process required by MMC Chapter 17.10 in order to identify new comprehensive plan designations that will ultimately be applied to subject properties at the time of annexation. These new comprehensive plan designations will identify the future city zoning classifications of properties that will apply in conjunction with annexation to the city. Prior to development of properties within the Fox Ridge Road area, annexation must be completed.

Chapter 17.10: Area and Master Planning Process

Urban Holding Overlay District

As part of the City's UGB expansion areas, the Fox Ridge Road subarea has been assigned the urban holding (UH) comprehensive plan map designation. The Fox Ridge Road subarea must undergo area planning to identify appropriate land uses, their locations, and their relationship to public facilities, natural resources, and other existing urban uses nearby to remove the urban holding designation. Land uses should be consistent with the framework plan. The final Fox Ridge Road Area Plan will be consistent with the Traditional Neighborhood Model, include a Neighborhood Activity Center, and comply with the Great Neighborhood Principles to ensure equitable access to a livable, egalitarian, healthy, social, inclusive, safe and vibrant neighborhood for all of McMinnville's current and future citizens. The final area plan will be adopted by the city council and utilized as a guiding land use document for development within the area. Once adopted, properties within the urban holding zone may annex and assume developable city zones as specified in Title 16 and Chapter 17.10. This initial area planning process has been initiated by the City with the guidance of the Project Advisory Committee appointed by City Council.

Master Planning Process

Within the Fox Ridge Road area, properties with 10 acres or more are required to undergo a master planning process prior to or concurrent with annexation. Several of the properties within the subject area would be subject to the master planning process due to this requirement. Properties over 10 acres looking to develop must demonstrate that they are able to extend services to make urbanization of the area orderly and efficient.

Chapter 17.11: Residential Design Standards

The City of McMinnville has recently amended Title 17 of the McMinnville City Code, adopting a new Chapter (17.11) that includes residential design and development standards. This chapter provides new residential development and design standards for all housing types in McMinnville's residential and commercial zones and reflects the City's vision for housing and development, including the Great Neighborhood Principles. All new development in the Fox Ridge Road study area would be expected to comply with the provisions of Chapter 17.11.

Chapter 17.53: Land Division Standards

In order for annexing properties to urbanize effectively and contiguously with city standards, developable lots planning to subdivide, partition land, or adjust property lines must comply with the regulations of Chapter 17.53 which provides procedures and standards for all land divisions within the city. Partitioning and subdividing of land, and adjustment of property lines within the Fox Ridge Road study area must be able to ensure adequate width and arrangement of streets, coordinate proposed development with plans for utilities and other public facilities, and provide adequate health, sanitation, safety, services, and recreation outlined in the goals and policies of the McMinnville comprehensive plan. These regulations include the following standards for:

- Lot Layout
- Block Length and Perimeter
- Street Connectivity Standards
- Maximum Street Grades
- Utility provision
- Fire Access Standards

Chapter 17.57: Landscaping and Chapter 17.58: and Trees

Landscaping, tree coverage, and tree preservation are all integral components of a complete comprehensive development plan. The purpose of Chapters 17.57 and 17.58 are to both encourage and require the use of landscape elements, tree planting, and tree preservation within new developments that will enhance, protect, and promote the economic, ecological and aesthetic environment of McMinnville.

These chapters address standards for landscaping and street tree planting plans for new development and land divisions, and they address tree preservation for development sites. These standards would apply to development upon annexation of property to the City. The purpose statement of Chapter 17.57 summarizes some of the key objectives of the standards.

- 1. Reduce soil erosion and the volume and rate of discharge of storm water runoff.
- 2. Aid in energy conservation by shading structures from energy losses caused by weather and wind.
- 3. Mitigate the loss of natural resources.
- 4. Provide parking lot landscaping to reduce the harmful effects of heat, noise and glare associated with motor vehicle use.
- 5. Create safe, attractively landscaped areas adjacent to public streets.

- 6. Require the planting of street trees along the city's rights-of-way.
- 7. Provide visual screens and buffers that mitigate the impact of conflicting land uses to preserve the appearance, character, and value of existing neighborhoods.
- 8. Provide shade, and seasonal color.
- 9. Reduce glare, noise, and heat.

4.5 PLAN UPDATES

The above information summarizes key provisions of plans and polices which are adopted as part of the Comprehensive Plan. As noted above, the City has also initiated updates to elements of the Comprehensive Plan, including those noted below. The work on this and other Area Plans will also inform coordination with that work.

- Natural Hazards Planning (Oregon Land Use Goal 7) several plans and updates
- Natural Features Planning (Oregon Land Use Goal 5)
- Parks, Recreation, and Open Space Master Plan Update
- Public Facility Plan Updates (water, wastewater, stormwater)
- Transportation Systems Plan (TSP) Update

5.0 FINDINGS AND KEY ISSUES

A summary of study area plan implications, based on the existing conditions, are provided below:

Land Use and Zoning

- The Fox Ridge Road Area Plan is expected to be adopted in reference to the MGMUP to ensure the study area complies with the goals and objectives established through the area planning process
- A significant land use within the area will be the 41-acre site owned by McMinnville School District that is slated for the potential development of a future high school.
- The plan will include a Neighborhood Activity Center that allows for small scale commercial and office development, NAC park/plaza, and high-density residential development within the center.
- The Neighborhood Activity Center should be strategically located to provide services and amenities to the diverse residential developments proposed within the study area.
- A neighborhood park is to be located within ½ mile of all residences within the neighborhood.

Natural Features

- Topographically, the majority of the study area consists of gradual to steeply sloping land that may affect the constructable residential densities and related utilites.
- A majority of the area's soils are of moderate to poor permeability which limits the types of stormwater facilities that can be utilized in support of future urban development.
- The area plan will need to plan for a useable open green space network that includes greenways and trails throughout the area to improve the walkability and accessibility of the study area.
- Two ridges running parallel to Fox Ridge Road, one on the north side and one to the south, further divide the properties along Fox Ridge Road from flatter areas at the northeast corner of the study area and land immediately to the south.
- Recent mapping conducted by the City of McMinnville to identify natural hazards and natural features in conjunction with Statewide Planning Goals 5 and 7 identified significant tree groves

at the western edge of the study area, and scenic viewpoints along ridgelines to the north and south of Fox Ridge Road. It will be important to conserve natural greenspaces and greenways that may also serve to protect the dense stands of mature trees that provide habitat for protected avian species.

- Relatively flat properties at the northeast corner of the study area and at the base of Fox Ridge Road, near its intersection with NW Hill Road, are less impacted by slopes and closer to existing utilities.
- A large remainder of land within the Fox Ridge Road Area Plan is most suitable for lower density residential housing development due to steep slopes.
- Preliminary mapping of potential NH-P and NH-M overlay zones indicate that development may be limited by natural hazards on the middle portion of Fox Ridge Road, above the cemetery and tree farm properties at the base of the hill, and below the westernmost edge of the study area. In combination with other development constraints (parcelization, serviceability), new residential development along the higher portions of Fox Ridge Road may take place later than other portions of the area, or at a lower intensity. These areas could be evaluated in conjunction with identified natural features and habitat areas for possible designation of open space areas and/or transfer of development rights.

Infrastructure and Services

- If a different street standard is applied to Fox Ridge Road, future development would require road frontage improvements to meet City standards, including improvements to the right-of-way, remove and reconstruction of the existing subgrade, construction of paved travel surfaces, as well as 5-foot minimum sidewalks along both sides of the street, curbs and gutters.
- Connectivity and coordination with the development of the high school site, adjacent to the proposed mixed-use concept plan development, will be critical to the area plan.
- Bike and pedetrian connectivity should occur between the Fox Ridge Road area and existing trails and linear parks throughout McMinnville.
- Coordination with Yamhill County Transit should occur to provide public transit services, especially in conjunction with the proposed partial Neighborhood Activity Center location.

Wallace Road Extension

- The three-legged roundabout at the intersection of NW Hill Road and Wallace Road provides an opportunity to extend Wallace Road westward for access to the location of the Neighborhood Activity Center and the McMinnville School District property.
- A Wallace Road extension would provide access for the future high school site and the Neighborhood Activity Center on TL 700. Due to these adjacent uses, the Wallace Road extension will likely be the most used street in the study area, by all modes of travel, making the design and alignment of the road particularly important.

Regulatory Context and Planning Framework

- The Area Plan will be adopted as a supplement to the McMinnville Comprehensive Plan, and act guide for future urbanization of the land located within the Fox Ridge Road Area Plan.
- The Area Plan will reflect the principles of the MGMUP, MGMUP Framework Plan, McMinnville Comprehensive Plan and other applicable City land use policies and standards including:
 - o The guidelines of the Traditional Neighborhood model
 - o Standards for a partial Neighborhood Activity Center
 - o The adopted Great Neighborhood Principles (Comprehensive Plan Policies 187.50)

 The MGMUP Framework plan identifies potential planned uses such as a partial or half Neighborhood Activity Center (5 – 10 acres) with commerical and office development (1 – 2 acres), medium-density residential development (2 – 5 acres) and high-density residential development (2 acres) located at the perimeter of the Neighborhood Activity Center. This will also include a Neighborhood Park located within a ½-mile distance from all residences in the study area, and a natural resource park.

School District Property

- McMinnville School District owns a 41-acre site at the northern edge of the study area, intended for a future high school. The site is a parallelogram, extending only about 700 feet in depth from the anticipated future extension of Wallace Road.
- The future high school site occupies a significant portion of the flat land at the northeast corner of the study area that is most easily accessed and serviced by existing utilities. Depending on the size of the high school, utility needs may vary. The timeline for development is uncertain.
- The district has not adopted specific programming or plans for a high school at this time, pedestrian, bicycle, and vehicular connectivity to the school will need to anticipate the future layout of the site.
- The shape of the property may pose challenges for configuring a high school, depending on the eventual programming intended for the facility.

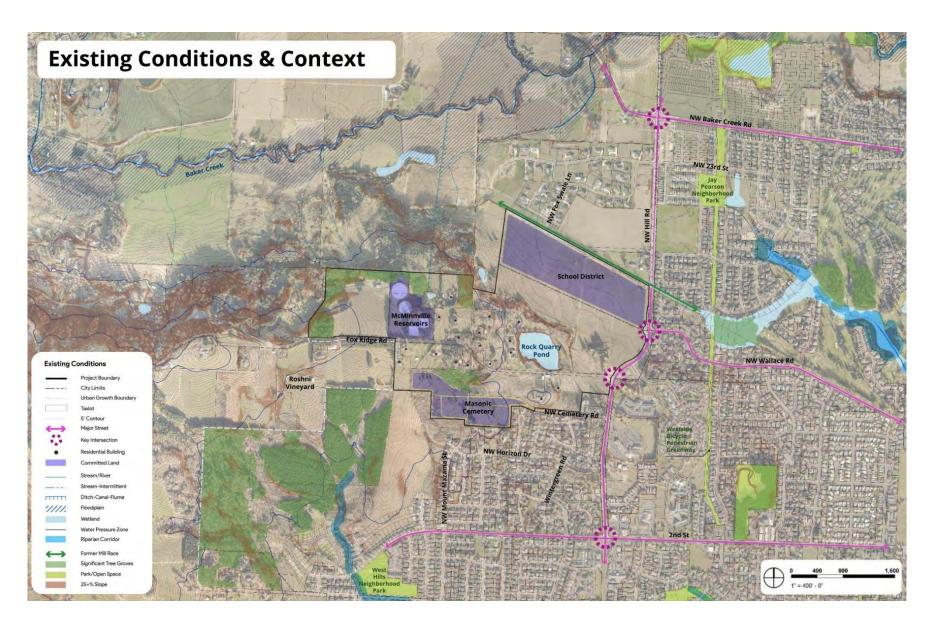
Other Permanently Occupied Sites

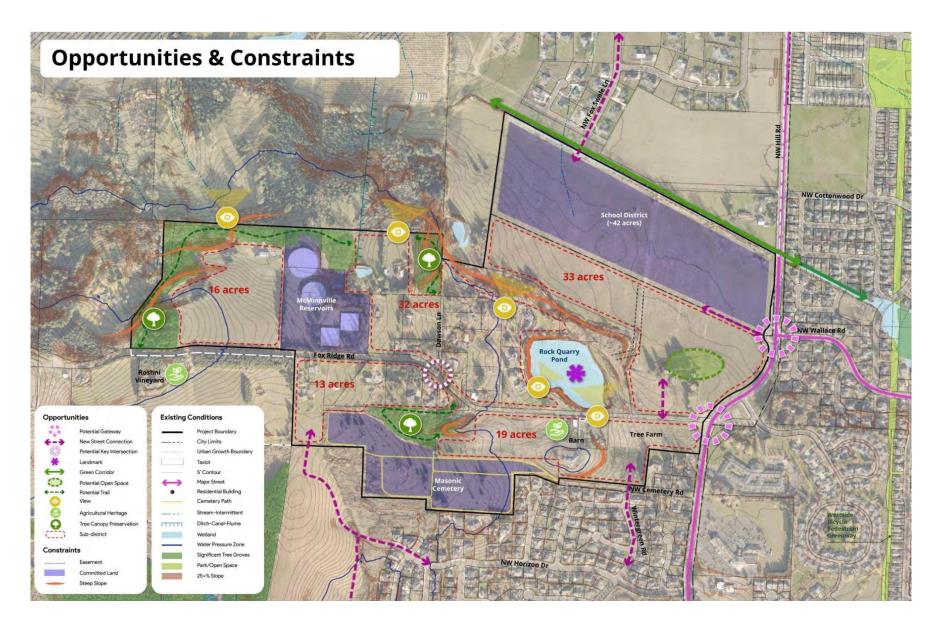
- Two of the larger properties within the southern portion of the study area are occupied by uses that have been committed to specific uses that make them unlikely to redevelop at any time in the future:
 - The Masonic Cemetery occupies a 21-acre site, occupying nearly 70 percent of the southern boundary of the study area.
 - McMinnville Water and Light owns 13-acres near the center of the study area, along Fox Ridge Road, that houses four above-ground water reservoirs.
- These sites do not directly impact the development potential of neighboring properties but could interrupt the continuity of annexation and utility extensions, as property is urbanized from the existing City limits at the base of the hill. Annexations contiguous to City limits could occur relative to the City limits to the east or the south.

Rock Quarry Pond

- A large gravel quarry, now filled with water, is centrally located within the study area, near the base of Fox Ridge Road and adjacent to the approximate location suggested in the Framework Plan for the Neighborhood Activity Center. The gravel pit currently stores runoff from uphill lands and provides supplemental irrigation to properties outside of the study area.
- The pond created on the gravel pit site could provide a feature to a future park site or amenity for development in the vicinity.
- A park site or public park at the gravel pit site would occupy a possible connection point between the higher ground along Fox Ridge Road and potential future locations for a high school and Neighborhood Activity Center. However, the pond itself is not visible from either of these lower elevation sites.
- The pond currently plays a role in stormwater drainage and retention, and changes in configuration may have impacts in and around the site.







APPENDIX B

FOX RIDGE ROAD COMMUNITY SURVEY SUMMARY

City of McMinnville Fox Ridge Road Area Plan

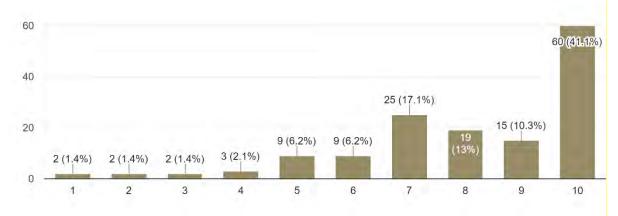


 Date: April 13, 2023
 205 SE Spokane Street, Suite 200, Portland, OR 97202

 To: Tom Schauer, City of McMinnville
 PHONE: 503.221.1131

 From: Chris Green, HHPR
 Subject: Fox Ridge Road Community Survey Responses and Summary

QUESTION 1 - How are you familiar with the Fox Ridge Road Area? [146 responses]



QUESTION 2 – What is your relationship to the Fox Ridge Road Area? Select all that apply. [147 responses]

I live in the Fox Ridge Road	—24 10 (6.8%)	(16.3%)			
own or operate a business i4 (2.7					
I live in McMinnville	707				89 (60.5%)
I live in the surrounding region			58 (39.5	%)	00 (00.0 /0)
I visit places or people in the			47 (32%)	,0)	
I am the Sexton and Caretak1 (0.7%)		(0270)		
l live in Hillside Retirement C -1 (0.7%)					
I live next to Fox Ridge -1 (0.7%					
We sometimes walk up Fox 1 (0.7%	·				
l live across Hill road from th1 (0.7%					
i live in Vineyard Heights Se1 (0.7%					
walk in the Cemetery, out F					
l live adjacent to the Fox Rid1 (0.7%	2				
We live at Hillside, and frequ1 (0.7%					
I used to live near the area1 (0.7%					
My home is near the end of -1 (0.7%					
I live between Star Mill and1 (0.7%					
		10	22		
0	20	40	60	80	100

QUESTION 3 - Imagine 20 years from now there are new neighborhoods and features in the Fox Ridge Road Area, as shown on the Framework Plan. What would you like to see? [143 responses]

- Parks/trails/open space
- Housing (wide range of opinions on density/affordability)
- Neighborhood-serving retail
- Preserving views

Many of the responses from residents included reoccurring themes such as the need for additional community spaces, achieving walkability with appropriate neighborhood retail development and the need for green open spaces incorporated throughout the area plan with connecting trails and pedestrian passages. Generally, those who participated in the survey want to see walkable neighborhoods that eliminate the need for cars, as there is an already existing concern for traffic in the surrounding area. The wide range of housing opinions included the preservation of low-density housing to the inclusion higher density, multi-unit housing options that are affordable for residents. Many survey responses mentioned the location of any medium to high-density housing developments should remain in or near the proposed Neighborhood Activity Center area at the intersection of Fox Ridge Road and Hill Road. Several responses also mentioned the need for a grocery store in the area to serve the existing and any new neighborhood residents and prevent additional traffic impacts. In addition to a grocery store or neighborhood-serving retail, most responses to this question have mention of parks, open space, and trails to make the area more walkable and accessible. Many residents of McMinnville walk within the area, and with observed increases in surrounding traffic, responses appear to prioritize the walkability of the neighborhood. Recreational opportunities and community spaces were also mentioned in several responses.

The responses from residents who live in the Fox Ridge Road Area highlighted the preservation of open space and natural habitats that currently exist or surround the area, especially the scenic views that the area's higher elevation is able to afford. More specifically, residents who live in the Fox Ridge Road Area would like to see careful attention to architectural features and details for any new development, as there were mixed responses regarding the density of housing for the area. Some examples of specific features include parkway and landscaping, requiring undergrounded utilities to preserve the scenic landscape, or the requirement of architectural standards that may break up building planes, add neighborhood character and preserve the unique features of the area.

Question 4 — As this area transitions from rural to urban uses over time, are there assets or distinctive features within the area that you think should be conserved and/or incorporated into the plan? [136 responses]

- Impacts on nature, wildlife and mature tree stands
- Preservation of rural lifestyle, local views
- Conservation of rock quarry, masonic cemetery and tree farms
- Incorporate community parks, green spaces as buffers

Generally, many responses to this question pose a concern for impacts due to urban development. Many of the responses have the same themes that include the preservation of nature, wildlife, and the areas rural charm and lifestyle. Distinctive features of the area were notably the existing dense tree stands, open rural land, and several responses specifically mention the conservation of the rock quarry with potential use as a community park, as well as the existing masonic cemetery. Along the theme of rural preservation, new commercial development was suggested to be appropriate for the area in scale and use, such as small-scale or multi-use retail development with attention to architectural features. Residents also mentioned creating buffers between development of neighborhoods with green spaces, preserving existing trees that line the area and provide natural habitat for wildlife. This also includes the incorporation of open green spaces throughout the majority of the Fox Ridge Road Area Plan.

Question 5 — What else should we know or consider as we move forward with the Fox Ridge Road Area Plan? [116 responses]

- Traffic impacts
- Walkability and pedestrian/bike paths
- Open green spaces
- Various opinions about housing affordability
- Concerns for new development density, utilities and aesthetics

Moving forward with the Fox Ridge Road Area Plan, residents expressed their concerns for traffic impacts from new urban development. There is existing concern for traffic near the roundabout on Hill Road, and the general increase of traffic on Hill Road. Responses specified consideration to traffic impacts as the plan moves forward, with suggestions on how to mitigate existing and new traffic conditions. Much of these suggestions also revolve around increasing the walkability of the area through the inclusion of carefully planned pedestrian and bike paths that connect the existing features of the Fox Ridge Road area. These connections were also suggested to include neighborhood green spaces in order to consider connectivity between open space and any new development. Especially considering the potential future development of the high school site, residents expressed further concern for traffic impacts and circulation along Hill Road.

There were also many varying opinions about housing affordability, whether or not new units should be market rate or primarily affordable. Some responses expressed the need for affordable housing options for residents within the City of McMinnville, while others expressed concerns for density and a desire to preserve the rural nature of the area. Overall, there is consistent responses regarding the overall density of new units in their appearance, ensuring that any new development does not appear to be out of place from the existing neighborhood character. When discussing medium to high-density developments, considerations to new utilities and their impacts, and overall aesthetics were noted. The survey responses emphasize community and neighborhood-oriented development for residents of Fox Ridge Road the surrounding area.

APPENDIX C

Memorandum

SERA

ARCHITECTURE URBAN DESIGN + PLANNING INTERIOR DESIGN

Date	3/28/2023
Project Name	Fox Ridge Road Area Plan
To	Chris Green, HHPR
cc	Tom Schauer, City of McMinnville
From	Margaret Raimann, SERA Design

Subject Fox Ridge Road Area Plan Community Design Workshop #1 Summary

As part of the planning process for the Fox Ridge Road Area Plan, the City of McMinnville hosted a community design workshop on March 21st, 2023 from 6 to 8 p.m. SERA Design led the workshop with assistance from the prime consultant on the project, Harper Houf Peterson Righellis Inc. (HHPR).The purpose of the workshop was to present the findings from the opportunities and constraints analysis and gather feedback from community members on the preferred development scenarios for the Fox Ridge Road area. Over 50 people attended and participated in the design workshop, and community members also have an opportunity to provide input through a survey open through April 10th, 2023. This memorandum summarizes the workshop event and the key themes that emerged from the community input.

Workshop Summary

The format of the workshop included a 30-minute presentation with an opportunity for questions from community members. The City of McMinnville and HHPR started the presentation with an introduction to the project and previous planning efforts that led to the development of the Fox Ridge Road Area Plan. They provided an overview of the consultant team and the project phases. This event was the first of two community design workshops with the first focusing on development scenarios and the second focusing on plans for parks, open space, and connectivity.

SERA Design presented background information that helped to guide community members in the workshop activity following the presentation. This section of the presentation included an overview of potential development typologies for the area; land use guidelines provided in the Fox Ridge Road Framework Plan; an overview of existing conditions in the area; and a draft of an opportunities and constraints area for consideration in the development scenarios. Prior to starting the small-group workshop activity, community members were welcomed to ask questions to help clarify the purpose and potential development scenarios.

Following the presentation, City staff and the consultant team facilitated small-group discussions in table groups with about 8-10 community members at each table. Each table was provided with a map of the Fox Ridge Road area, precedent imagery with potential development typologies, and tools for drawing and envisioning the location of land uses for future development. Facilitators asked questions to guide the discussion including:

- Are there opportunities or constraints we missed in the draft map?
 - What opportunities are you excited about?
 - What other ideas do you have for this area?
- Given the opportunities and constraints where would you like to see the following land use development typologies?
 - High-density residential
 - o Medium-density residential
 - o Low-density residential
 - o Neighborhood-service commercial / office
 - Parks / open space

After about one hour of small group discussions, the workshop concluded with a representative from each group sharing a few ideas with all workshop participants. The key themes that emerged from the workshop activity are summarized in the next section, and images of each map that the groups produced are provided in Appendix A. Community Design Workshop #1 Notes.

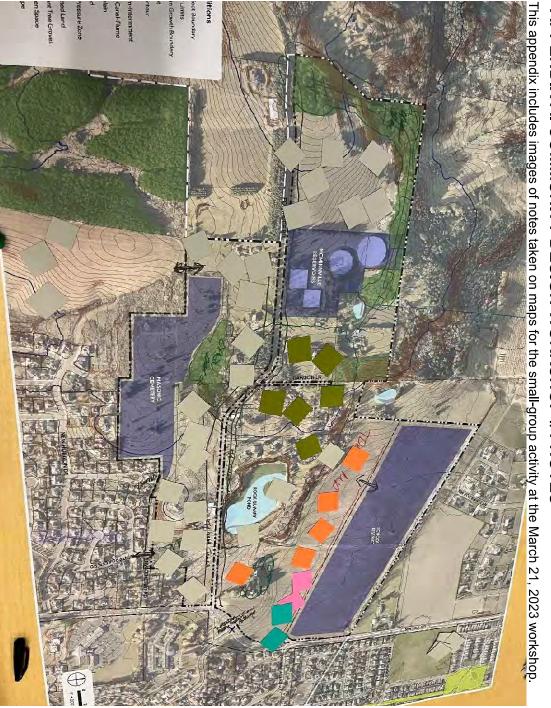
Key Themes

The key themes that emerged from the community design workshop are summarized below. The project team will use these themes to guide the draft development scenarios and further discussions with the Project Advisory Committee.

- Offer a range of housing types. The Framework Plan outlines minimum acreages for medium and high-density housing. Some groups stated they preferred to meet the minimum acreage for these housing types while other groups proposed exceeding these minimums. One rationale given for exceeding these limits was to bring a greater variety of housing density to an area of McMinnville with existing residential densities that are generally lower than other areas of the city.
- Locate medium higher density housing types near eastern boundary of area. Most groups agreed that the medium and high-density housing types would fit best along Hill Road or other areas along the eastern boundary of the Fox Ridge Road area, given physical constraints and limited capacity of Fox Ridge Road.
- Focus on design of new development. Many groups raised concerns about creating welldesigned developments with the new housing proposed for this area. They asked whether certain design standards could apply to the planning area to ensure this goal is achieved.
- **Connect open spaces.** This area will include substantial acreage for parks and open space due to the constraints that may restrict development and overall community need for more areas for recreation. The workshop participants suggested that the open spaces should also be connected via greenways and include connections to the existing multimodal network in the City of McMinnville. Open green spaces were suggested to preserve existing community resources including the masonic cemetery, rock quarry pond, and key viewpoints. Many groups proposed that the neighborhood park should be accessible by a range of residents living in all housing types. The second community workshop will focus on open spaces and will provide another opportunity for the community to provide input.
- **Consider traffic impacts of new development.** Many of the concerns related to increased development along Hill Road focused on increased traffic demand and the existing function of intersections along Hill Road that boarder the area. A future task of this planning effort will include analysis of transportation infrastructure and an identification of needs for the preferred development scenario.
- **Provide alternative access and connectivity.** Related to the traffic concerns, some groups suggested alternative access points to reduce demand on Hill Road and Fox Ridge Road. Community members raised concerns about the existing capacity and condition of Fox Ridge Road as a narrow right of way with sight distance issues and no shoulders. Future work on this project will include a more detailed look at these potential connections as well as another opportunity for the community to provide input on this topic.

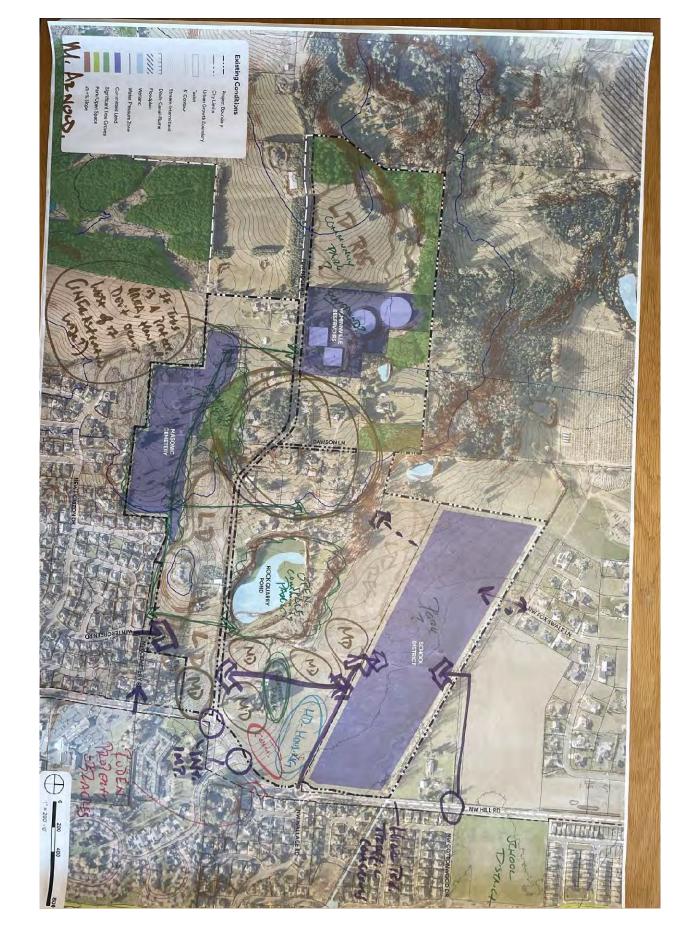
Next Steps

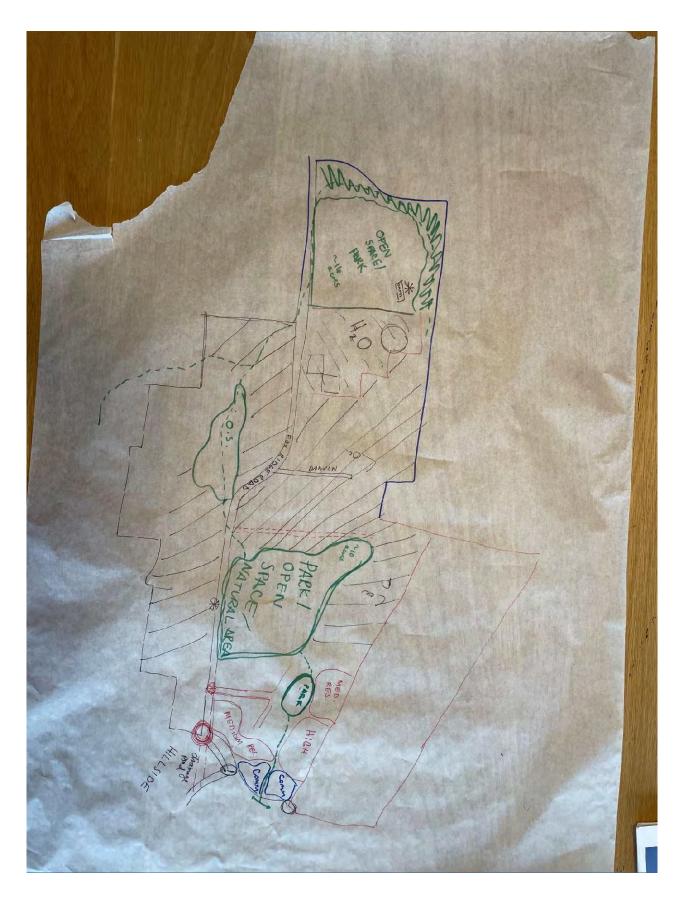
The next step in this process is for the SERA team to develop the draft development scenarios based on the community input provided in the design workshop and the survey (open through April 10th). City staff and the Project Advisory Committee will provide further input on the development scenarios, leading to a preferred scenario for the Fox Ridge Road Area Plan. The community will have another opportunity to provide feedback at the second community design workshop in June 2023.

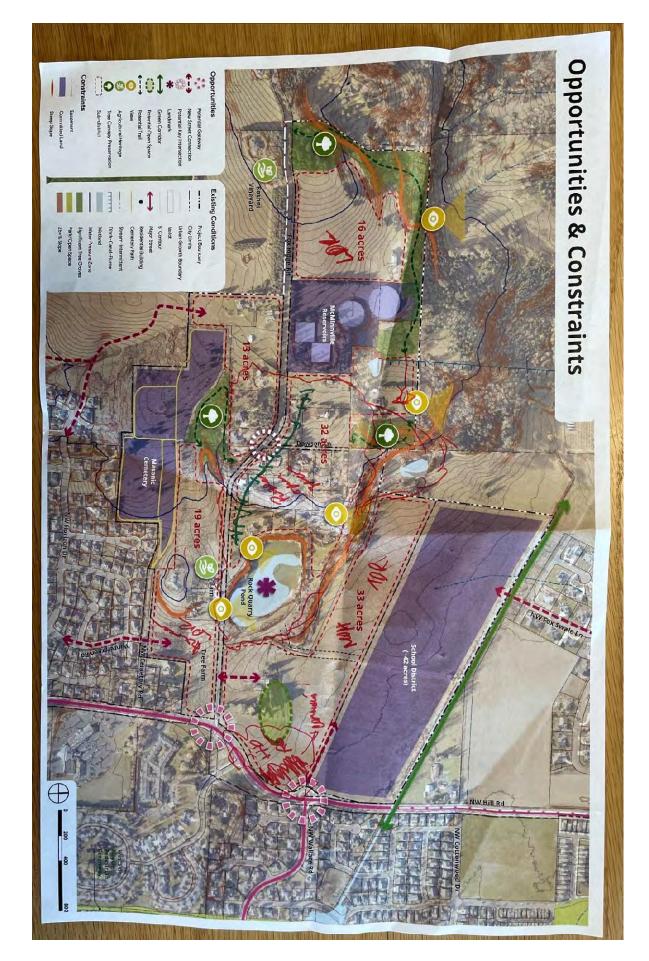


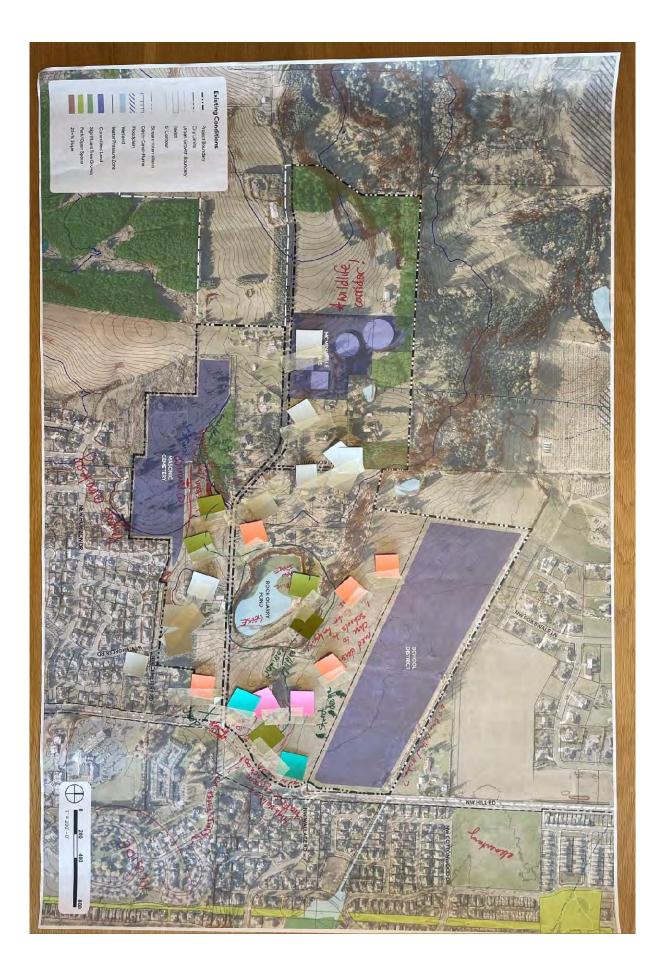
Memorandum

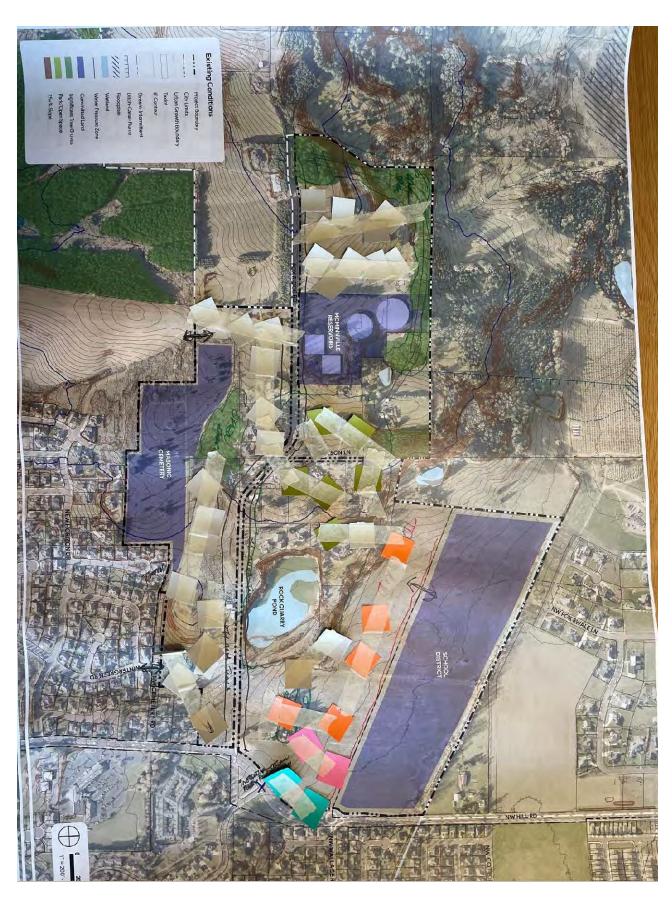
APPENDIX A. COMMUNITY DESIGN WORKSHOP #1 NOTES











City of McMinnville Fox Ridge Road Area Plan

Memorandum

Date: June 14, 2023To: Tom Schauer, City of McMinnvilleFrom: Chris Green, HHPRSubject: Community Design Workshop #2 Summary



LANDSCAPE ARCHITECTS SURVEYORS 205 SE Spokane Street, Suite 200, Portland, OR 97202 PHONE: 503.221.1131 www.hhpr.com FAX: 503.221.1171

COMMUNITY DESIGN WORKSHOP #2

On June 6, 2023, City of McMinnville hosted a second Community Design Workshop to gather feedback on opportunities for potential park sites and connection points in the Fox Ridge Road Area and begin developing concept plans for future parks, trails, and connections. Planners and landscape architects from Harper Houf Peterson Righellis Inc. (HHPR) led the workshop with assistance from City staff. Over 30 people attended and participated in the design workshop. Building from the workshop feedback and land use concepts developed in the first Community Design Workshop (March 21, 2023), the project team will develop concept plans for future parks, trails, and connection opportunities in the Fox Ridge Road Planning Area. This memorandum summarizes the workshop event and the key themes that emerged from the community input.

WORKSHOP FORMAT

The format of the workshop included a 30-minute presentation by HHPR with opportunities for questions from community members. Workshop attendees were presented with the background of the project, the project timeline, goals, and the purpose of the workshop. Following the presentation, the consultant team and City staff facilitated small-group discussions with about 8-10 community members at each table.

Each table was provided with one base map of the draft preliminary land use concept for the Fox Ridge Road area, one base map of the neighborhood activity center (focused on the neighborhood park site identified in the preliminary land use concept), and smaller maps for reference of the opportunities and constraints, existing conditions, and natural hazard overlays of the area. Tools such as markers, trace paper, and sticky notes were provided for participants to draw and annotate the base maps with suggestions for future parks, trails, open space and connections within the Fox Ridge Road area. Facilitators guided the small groups through two exercises with 30 minutes allocated for each exercise. The first group exercise focused on looking at the neighborhood park centered within the neighborhood activity center, ensuring that the park was both well-connected and accessible. The second exercise focused on open space and trail opportunities throughout the overall Fox Ridge Road area based on the draft preferred land use concept map, including potential features and linear parks. Both exercises sought out input for suggested amenities and important features to preserve in the area plan.

After discussion, a representative from each small group shared their ideas with all workshop participants for consideration. The workshop concluded with final questions from the community and a regroup of the PAC to review the results of the community design workshop.

KEY THEMES

The key themes that emerged from the community design workshop are summarized below. Images of each annotated map produced by the workshop groups are provided in Appendix A. The project team will use these themes to guide the park, trails, and open space concepts for the area.

Neighborhood Park

- **Pedestrian connections.** Among all the groups, bike and pedestrian friendly connections were agreed to be a priority of the neighborhood park. These pathways were discussed as pedestrian only connections and accessible for all age groups and uses such as bikes, pedestrians, strollers, and wheelchairs. All groups also mentioned that these connections should connect the proposed residential units adjacent to the neighborhood park within the neighborhood activity center, as well as the school district site and Fox Ridge Road area. However, it was also discussed that the neighborhood park should primarily serve the community within the neighborhood itself.
- **Community gathering area.** Most groups mentioned the need for a community gathering area or space within the neighborhood park. Ideas that were proposed include a large gazebo, auditorium built into the topography of the park landscape, or other picnic and barbeque areas for community members to gather.
- Amenities. Each group had their recommendations on different amenities that should or needed to be provided. Restrooms and potable water stations were considered necessary within the park, and other recreational amenities were suggested such as smaller sport courts (tennis, basketball, pickle ball, etc.), casual outdoor games (horseshoe, bocce ball, etc.), large children play areas and play structures, shade structures, and even a bicycle repair station was proposed for passing bicyclists. All groups notes that amenities should be accessible to all age groups and provide diverse uses in activity types.
- Tree preservation and shade trees. There are many existing mature trees within the proposed neighborhood activity center area, which each group noted as an important natural feature of the area and should be made as a priority to preserve as many mature trees as possible. The additional planting of shade trees was also mentioned as another priority of the neighborhood park. Additional tree planting would not only provide shade but also a buffer to the surrounding residential uses as well.
- **Community garden.** Several groups mentioned using available open green areas as community garden space for the neighborhood activity center. Specifically, for residents who may live in future medium- to high-density residential units that may not have access to private yard space.
- Traffic safety/traffic calming on surrounding streets. Among the largest concerns for the neighborhood park was traffic safety and parking. Many groups voiced their concerns with the existing traffic issues within the area and expressed that those issues should not be exacerbated by visitors to the neighborhood park. Several groups expressed that no parking or parking lots should be proposed for the park and that access to the parks should be primarily through pedestrian connections.

Other Opportunities for Parks, Trails, Open Space, and Connectivity

• **Pedestrian connections.** Most workshop groups shared that pedestrian and bike friendly connections are a priority for the Fox Ridge Road area. These proposed trail or pathway connections should provide safe access to all users and connectivity to both the Fox Ridge Road area and the surrounding neighborhoods. Groups discussed the concept of a trail or sidewalk connection along Fox Ridge Road further, and many groups proposed a pedestrian connection

further south, at the north boundary of the Masonic Cemetery rather than along Fox Ridge Road itself, due to traffic safety concerns along the roadway.

- Trails and viewpoints. All groups were asked to consider natural trails and open spaces throughout the project area, with many groups agreeing with the proposed location of trails along the northern boundary and connecting back to the neighborhood activity center to the east. Many groups emphasized prioritizing the viewpoints along the trail loop at the northern end where expansive views of McMinnville can be seen and enjoyed by the community. Amenities such as trail benches for seating and potable water stations were recommended at these scenic viewpoints. Some groups also suggested that north to south connections should be considered throughout the project area, especially for the areas marked for low-density residential north of Fox Ridge Road in order to connect the trails back to the public street system and provide varying levels of trail opportunities.
- Park around the Rock Quarry. Each group considered the rock quarry pond for possible preservation as a notable natural feature, or even for development as a natural park space with a trail surrounding the pond, with access to the area from both Fox Ridge Road and the bottom of the slope where the neighborhood activity center is proposed, and some smaller amenities such as benches for additional seating opportunities. Some groups expressed safety concerns about topography around the pond, both for accidents around the water and lack of visibility to allow monitoring from other public spaces.
- **Preserve natural topography.** Along with the preservation of natural features, the general topography of the area was discussed and favored for preservation. Ensuring that the land is not graded in a way that diminishes the natural landscape and that park or open spaces work to preserve that topographical feature.
- **Traffic safety and parking.** Again, among the largest concerns for the area was traffic safety and parking. Many groups voiced their concerns with the existing traffic issues along Hill Road and Fox Ridge Road, stating that drivers not only exceed the speed limit creating dangerous conditions, but also the increasing traffic impact of congestion to the area. Many groups emphasized that pedestrian connections through linear parks and trails should be utilized to encourage access to the area, rather than parking lots that would only increase existing traffic issues and concerns. Specifically along Fox Ridge Road, groups agreed that any potential park features at the top of Fox Ridge Road to the west should be very careful about providing parking, if any, at all.

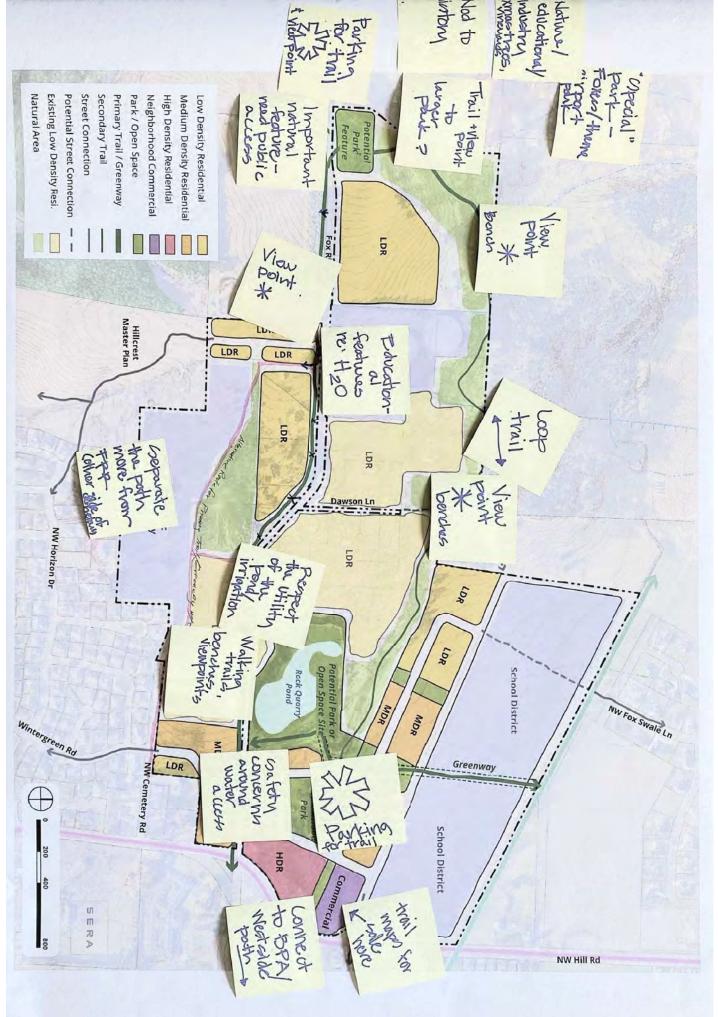
NEXT STEPS

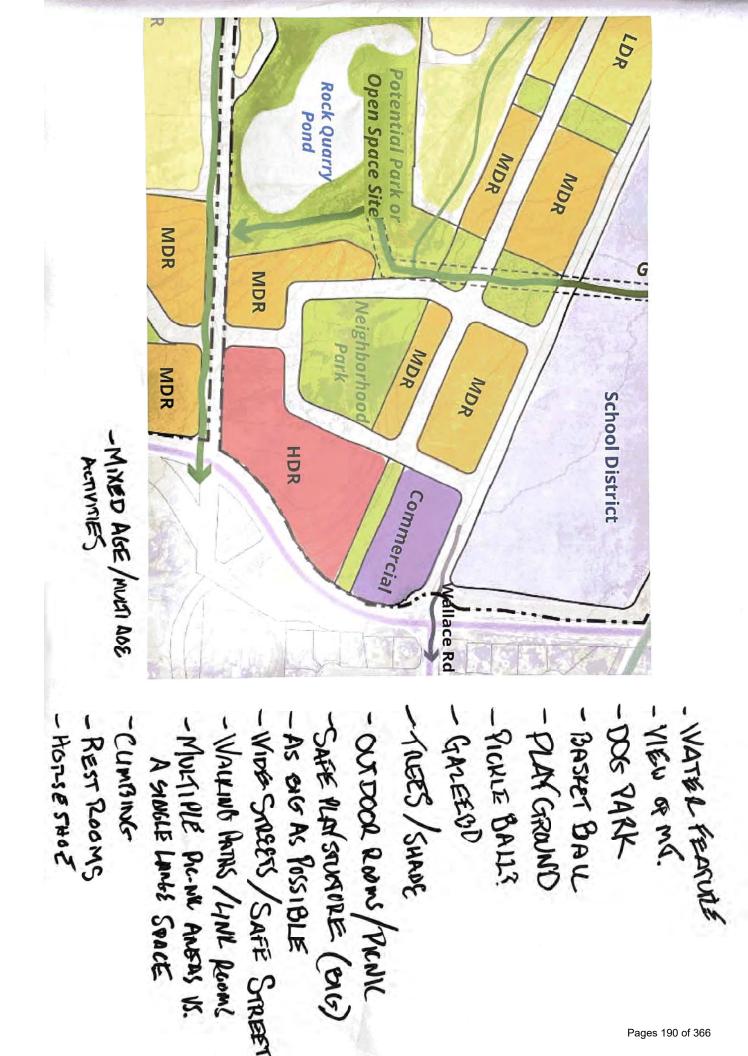
□ Project Advisory Committee (PAC) Meeting #3 – June 21, 2023

□ Project Advisory Committee (PAC) Meeting #4 – August 2, 2023

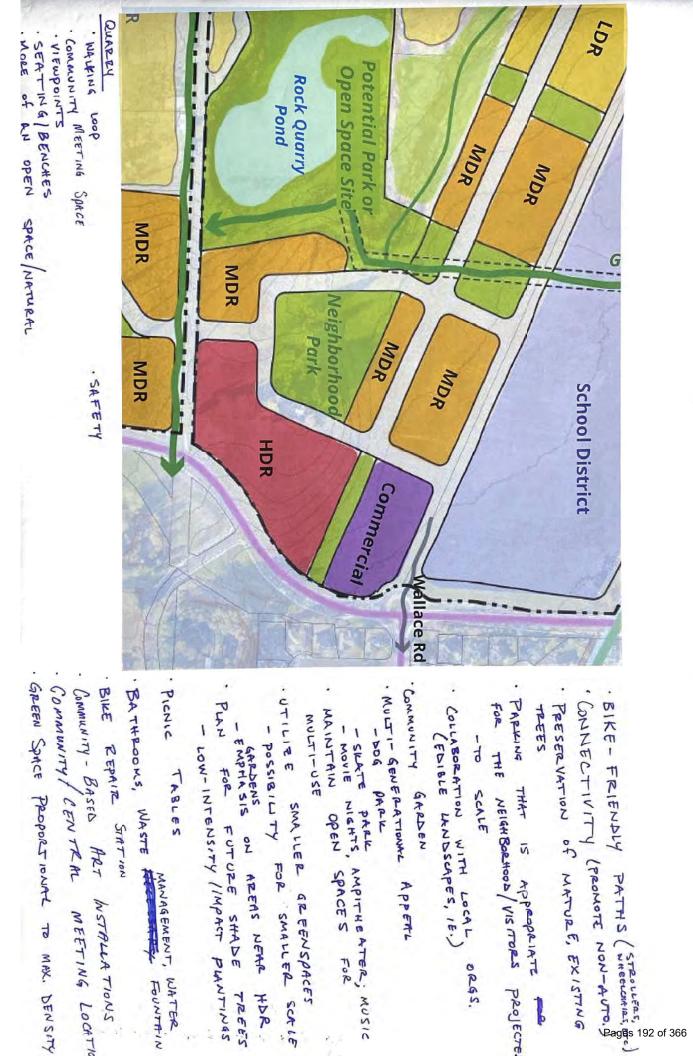
ANNOTATED BASE MAP NOTES

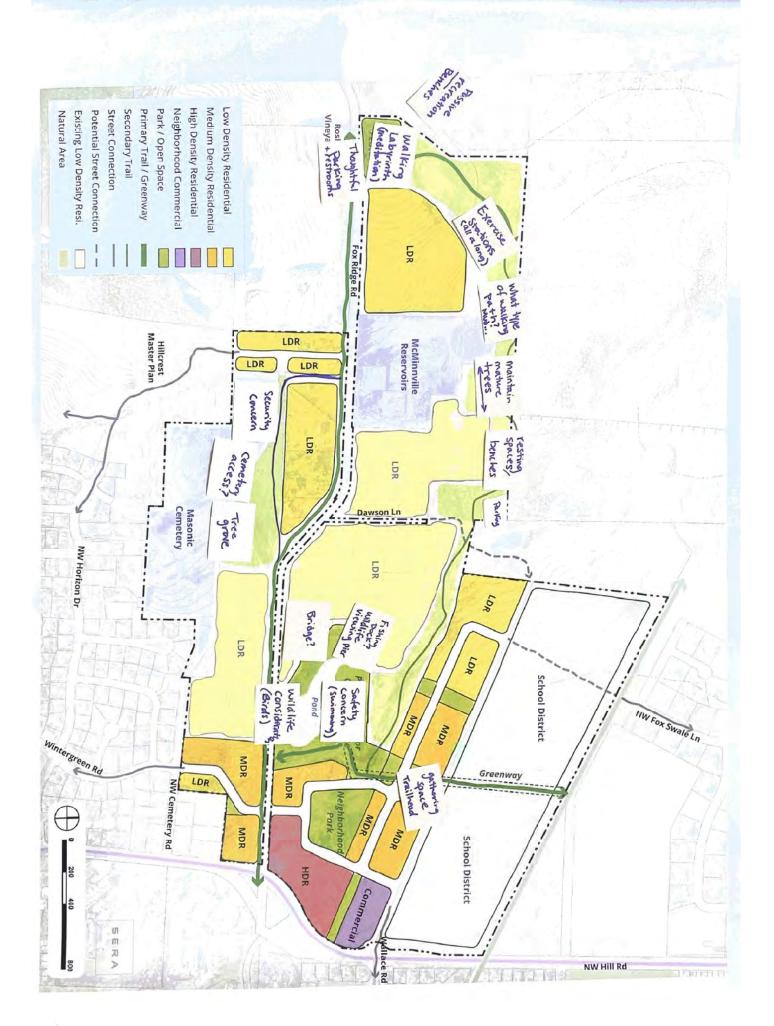
[Refer to Appendix A]

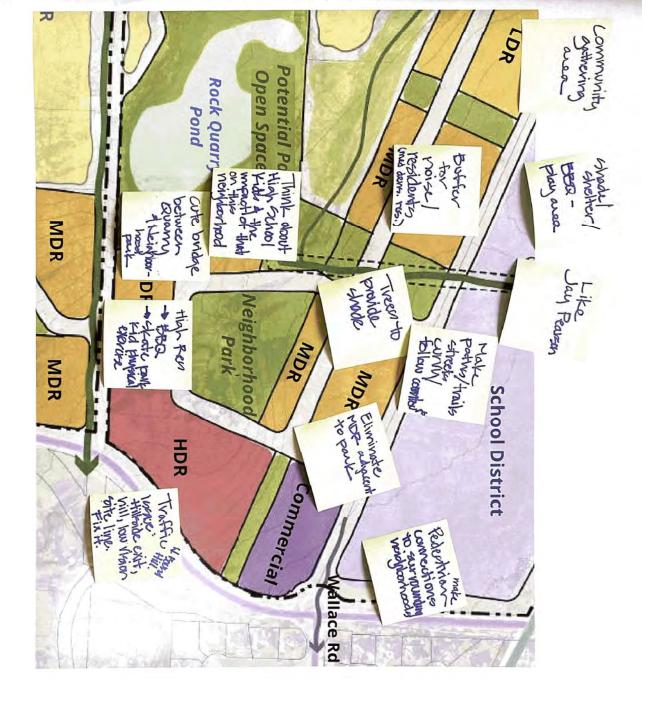


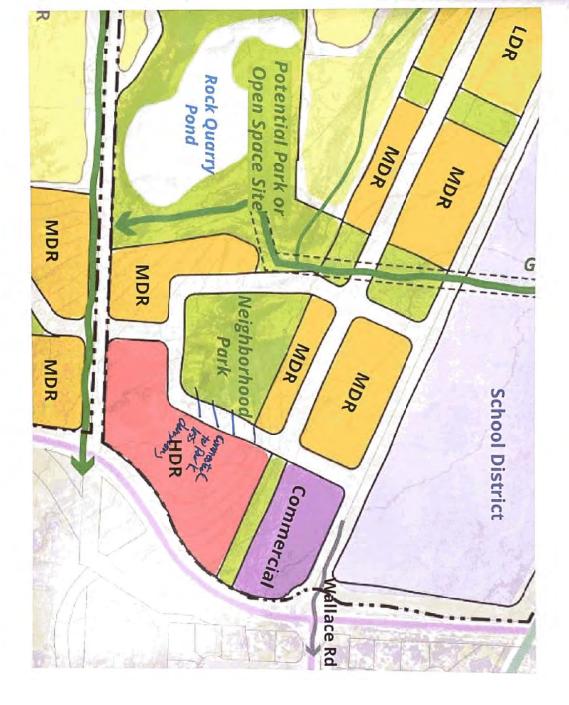














APPENDIX D

MEMORANDUM

City of McMinnville – Fox Ridge Road Area Plan



Date:December 1, 2022To:Tom Schauer, City of McMinnvilleFrom:Thuy Cao, HHPRSubject:City of McMinnville Fox Ridge Road Area Plan
PAC Meeting #1 Summary

Agenda Items:

- 1. Call to Order / Roll Call
- 2. Welcome and Introductions
- 3. Minutes: None
- 4. Establishing the PAC
 - a. Committee Role and Ground Rules
 - b. Election of Chair and Vice-Chair
- 5. Information Sharing and Action Items: Project Overview
- 6. Action Items Discussion and Direction
 - a. Evaluation criteria how will success be measured?
 - b. Public engagement: survey & stakeholder interview
 - c. Existing conditions
 - d. Opportunities and constraints
- 7. Next Steps
 - a. Tour of planning area
 - b. Survey and stakeholder interviews: Dec-Jan
 - c. Community Design Workshop
 - d. Next PAC meeting
- 8. Citizen Comments
- 9. Task Force Member Comments
- 10. Adjournment

Next PAC Meeting: May 10, 2023

Summary:

This was the first Project Advisory Committee (PAC) meeting for the Fox Ridge Road Area Plan. At the meeting, staff and the consultant provided a PowerPoint presentation that reviewed the project purpose, the role of the PAC, and set ground rules including expectations for the PAC. A thorough overview of the project area reviewed the boundary of the Fox Ridge Road study area, the area planning process, and the MGMUP Framework Plan and it's applicable requirements. Discussion was then held to develop the evaluation criteria for the area plan, examine public engagement strategies, and existing conditions including applicable plans and policies; natural features and hazards; and opportunities and constraints. This information and discussion provided the PAC with necessary context to the study area and clarified questions on the project boundary, methods of evaluation, intent of the area plan, and the role of the PAC.



Page 1 of 2 December 1, 2022

Next Steps:

Following PAC Meeting #1, the HHPR team will:

- Schedule a tour of the Fox Ridge Road planning area with the PAC.
- Publish the online survey based on suggested topics from the PAC and perform stakeholder interviews throughout the months of December and January.
- Work with SERA to develop Opportunities and Constraints diagram prior to Community Design Workshop #1 where we will review housing typologies and land use concepts with the community.
- Report back findings and results from all public engagement at the next PAC meeting.



City of McMinnville – Fox Ridge Road Area Plan



LANDSCAPE ARCHITECTS . SURVEYORS

Date:	May 10, 2023
То:	Tom Schauer, City of McMinnville
From:	Thuy Cao, HHPR
Subject:	City of McMinnville Fox Ridge Road Area Plan PAC Meeting #2 Summary

Agenda Items:

- 1. Call to Order / Roll Call
- 2. Welcome and Introductions
- 3. Minutes (forthcoming)
- 4. Selection of Chair and Vice-Chair
- 5. Information Sharing and Action Items:
 - a. Project Update
 - b. Review of Draft Concepts and Background Information
- 6. Citizen Comments
- 7. Task Force Member Comments
- 8. Adjournment

Next PAC Meeting: June 28, 2023

Summary:

The purpose of the meeting was as follows:

- To provide a project status update to the Project Advisory Committee (PAC),
- To present a summary of the work completed to date, key findings, and the results of public engagement activities.
- To review the three preliminary draft concepts that were prepared based on the work to date, and to obtain input and guidance from the PAC regarding aspects of this work to be developed into a preferred draft concept.

At the last meeting held on December 1, 2022, the Project Advisory Committee was presented with the project summary and schedule and asked to discuss key questions such as the criteria for measuring project success and development scenarios, identifying key stakeholders within the study area, and potential topics for questions to gather feedback for an online survey and stakeholder interviews. Since then, the online survey was conducted, and Community Design Workshop #1 was held on March 21, 2023 to reviewed the opportunities and constraints of the Fox Ridge Road Area and asked community members to provide input on land uses and the development of land use concepts appropriate for the study area. At PAC Meeting #2, Sara Tucholsky was selected as Chair for the Fox Ridge Road Project Advisory Committee, with Sid Friedman selected as the Vice-Chair to the committee. Following this selection, a summary of the work completed to date, key findings , and the results of all public engagement activities were shared with the PAC. Based on these findings and results, three land use concepts were created and presented to the PAC for discussion.



A summary of the key themes from this meeting based on the community design workshop findings and land use concept evaluations are provided below:

Key Themes:

- Element 1: Neighborhood Park. The PAC generally agreed that Concept 1 provided the greatest potential for the neighborhood park, centrally located within the Neighborhood Activity Center and allowing for a mix of passive and active recreational uses due to the flat, large, open space area. This open space would allow for sports courts and larger gathering spaces for the community. The Neighborhood Park would not require a parking lot and street parking would be provided within the adjacent higher density uses surrounding the neighborhood park location. This element sparked discussion of the Community Park at the west end, with some committee members sharing their concern for increased traffic due to the size and typical capacity of a Community Park.
- Element 2: Location of Commercial/Mixed-Use. Several committee members shared their concerns about the proposed commercial locations regarding access, safety, and traffic. The PAC ultimately agreed that the commercial location near the Wallace Road extension made the most sense when considering traffic and the proximity to the future high school site so that students may have safe access to commercial development. Alternative points and routes for access would need to be considered due to the existing limitations along Hill Road.
- Element 3: Residential Development and High School Site. Several committee members shared their concerns for the lack of housing units within the city, expressing their desire to maximize housing units within the concept plan. It was pointed out that the market analysis did indicate that there is market potential above the minimum requirements of acreage for multi-family residential within the study area. A majority of the PAC agreed that medium-density and high-density residential units should be maximized to provide diverse and affordable housing to the area.
- Element 4: Rock Quarry Pond. The Rock Quarry Pond had been identified as a key community feature to be preserved. Discussion around the use of the Rock Quarry Pond revolved around the impact of current private ownership and existing hazards surrounding the area. There was interest in preserving the quarry pond as a park that could potentially provide future access to residents, however, the Community Park designation in Concept 3 was not favorable due to the intensity of uses associated with community parks per the Parks Master Plan. A Special Use Park designation was suggested as a possible use to both preserve the quarry pond and provide some limited amenities or access to the natural area.
- Element 5: Connection at Eastern Edge. The eastern edge is key to the area plan as it contains the location of the Neighborhood Activity Center and one of the main thoroughfares of Hill Road. The PAC shared significant concerns regarding the speed of traffic and safety of Hill Road, and wanted to ensure that any connections along the eastern edge considered both accessibility and safety of Fox Ridge Road. The PAC expressed interest in the suggested pedestrian greenway that provided a shared use path protected from the street along Fox Ridge Road from Hill Road. North/south connections were discussed as pedestrian trails rather than auto-oriented street connections.
- Element 6: West End of Fox Ridge Road. The Community Park identified in Concept 1 was heavily discussed due to repeated concerns about traffic on Fox Ridge Road and impact to adjacent communities. The committee expressed their desire to maintain the natural area located along the northern ridge to preserve identified scenic views, while also agreeing that sports fields may not be appropriate at the west end park. The PAC reached a consensus that a smaller park feature with



benches, canopies and other passive uses would be suitable for the west end. The Community Park was suggested to be shifted towards the east end, however, no location was ultimately decided.

• Element 7: Southern Ridge and Cemetery. The Masonic Cemetery was another key community feature identified in the Opportunities and Constraints diagram. Because of it's sensitivity, the PAC discussed the use of a buffer between the cemetery and any abutting uses. Specifically, committee members agreed that low-density housing should not be located adjacent to the cemetery.

At the conclusion of the meeting, it was noted that Concept 1 was favored for the provided housing typologies, commercial location, and neighborhood park allocation, with Concept 2 being preferred for the smaller west end park and natural open space designations. The PAC considered the relationship between land uses within the concept plan layouts, urban design components, and a mix of housing densities. The feedback provided by the PAC will be captured within one draft preferred plan that will be presented at the upcoming Community Design Workshop #2 and the following PAC Meeting #3.

Next Steps:

Following PAC Meeting #2, the HHPR team will:

- Work with SERA to create a draft preferred land use concept that reflects the feedback provided from the PAC at the meeting.
- Begin considering draft goals and policies for the Fox Ridge Road Area Plan.
- Prepare for Community Design Workshop #2 to discuss specific neighborhood park uses and opportunities for trails and connections.



City of McMinnville – Fox Ridge Road Area Plan



ENGINEERS . PLANNERS LANDSCAPE ARCHITECTS . SURVEYORS

Subject:	City of McMinnville Fox Ridge Road Area Plan PAC Meeting #3 Summary
From:	Thuy Cao, HHPR
То:	Tom Schauer, City of McMinnville
Date:	July 14, 2023

Agenda Items:

- 1. Call to Order / Roll Call
- 2. Welcome and Introductions
- 3. Information Sharing and Action Items, *Exhibit 1*:
 - a. Project Status Update
 - b. Draft Preferred Concept
 - c. Goals and Policies Discussion
 - d. Next Steps
- 4. Citizen Comments
- 5. Task Force Member Comments
- 6. Adjournment

Next PAC Meeting: August 2, 2023

Purpose:

The purposes of the meeting were as follows:

- To provide a project status update to the Project Advisory Committee (PAC),
- To summarize the work completed to date, key findings, and the results of the most recent public engagement activities.
- To review the draft preferred land use concept developed following guidance from the PAC provided at PAC Meeting #2 and public input received through Community Design Workshop #2.
- To obtain input and guidance regarding draft goals, policies, and implementation measures for the area plan.

At the meeting, staff and the consultant provided a PowerPoint presentation that reviewed a summary of the items above and lead into a discussion regarding the preferred draft land use concept. Due to time restrictions and prolonged discussion regarding the preferred draft land use concept, feedback on potential draft goals and policies for the draft area plan document was not received during the meeting. A summary of the meeting is provided that includes key themes and comments from the Project Advisory Committee that will be taken into consideration when developing the draft goals and policies. An updated draft of the preferred land use concept and the draft goals and policies will be presented at the next PAC meeting on August 2, 2023, for additional comments and final recommendations.

(Graphics presented at reduced scale in this report and attachments were presented with full-sized graphics in the PowerPoint presentation, and large-format hard copies of graphics are available).



Key Themes:

- Traffic impact from park location on west end of Fox Ridge Road. When looking at the proposed park location on the west end, committee members shared their concerns for increased traffic impacts along Fox Ridge Road. The PAC agreed that a large community park use would not be appropriate due to the existing traffic concerns along both Hill Road and Fox Ridge Road. However, a smaller scale park feature was expressed to complement the area well.
- Rock quarry pond discussion Special Use Park. Committee members further discussed changes to the draft preferred land use concept that included graphic updates to better reflect the vision for the area plan. Minor changes, such as the depiction of the rock quarry pond needing to be updated to the correct shape, were addressed. Several committee members raised concerns regarding the steep slopes and general terrain surrounding the rock quarry pond. However, many committee members expressed that the rock quarry pond should be designated as a special use park, rather than a community park, as the area is not appropriate for typical recreational uses of a community park but may serve the area better as a natural feature with trail access.
- Clarification of all green area in Fox Ridge Road and green patches shown in NAC. Other concept map updates requested by the committee included the distinction between open green spaces, neighborhood park space, and special use park space around the rock quarry pond or elsewhere. The shades of green used to depict these green spaces were noted to be too similar and therefore difficult to distinguish. Specifically, the committee discussed the green patches throughout the neighborhood activity center that were not directly part of the neighborhood park. Those identified green patches were intended to be open green space/buffers between residential buildings and should be separately identified on the draft preferred land use concept for clarification of use.
- Trails, connectivity, and shorter loops. The committee reviewed the proposed trails and connectivity of the draft preferred land use concept plan and shared additional feedback concerning both north and south side connections of the Fox Ridge Road area. The north expansion of the McMinnville reservoirs was brought to the committee's attention, which may impact access through the north side of the area. On the south side of the area, trail access through the low-density residential areas and masonic cemetery were discussed as possible options. Concerns regarding trails being located on the steep topography of the Fox Ridge Road area led to discussion of providing short trail loops as options for accessibility. Alternative street access points for vehicular traffic were also discussed to help alleviate traffic along Fox Ridge Road and provide additional means of connection with the surrounding neighborhoods.
- Housing densities and the NAC. There was some discussion about the low-density residential (LDR) designations within a majority of the Fox Ridge Road area, with some committee members sharing their preference for the possibility of a community park designation on some of those areas rather than LDR. However, due to traffic impacts, the committee agreed that a special use park would be favored to a community park use. Within the neighborhood activity center, committee members drew attention to an area previously designated as high-density residential (HDR) that had been changed to medium-density residential (MDR) in the draft preferred land use concept. The committee agreed that due to the location of that specific area on the intersection of Hill Road and Fox Ridge Road, it should return to the HDR designation and be utilized for high-density residential under the plan. An additional update to the draft concept plan is to emphasize property lines of existing parcels to make it clear and legible for existing property owners.



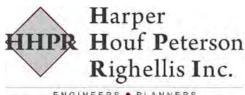
Next Steps:

Following PAC Meeting #3, the HHPR team will:

- Work with SERA to update the draft preferred land use concept and reflect the feedback provided at the meeting.
- Create draft goals, policies and implementation measures based on comments and concerns from both community design workshops and all three Project Advisory Committee meetings for review at the next meeting (to be held August 2nd). These draft goals, policies and implementations will be informed by all community feedback received and will be the topic of discussion during the next Project Advisory Committee meeting (PAC Meeting #4).
- After PAC Meeting #4 the draft goals, policies, and implementation measures based on comments and feedback from the Project Advisory Committee will be refined before being presented at both Planning Commission and City Council work sessions.



City of McMinnville – Fox Ridge Road Area Plan



ENGINEERS + PLANNERS LANDSCAPE ARCHITECTS + SURVEYORS

Date:	August 30, 2023
То:	Tom Schauer, City of McMinnville
From:	Thuy Cao, HHPR
Subject:	City of McMinnville Fox Ridge Road Area Plan PAC Meeting #4 Summary

Agenda Items:

- 1. Call to Order / Roll Call
- 2. Welcome and Introductions
- 3. Information Sharing and Action Items:
 - a. Project Status Update
 - b. Refinement of Draft Preferred Concept
 - c. Goals and Policies Discussion
 - d. Next Steps
- 4. Citizen Comments
- 5. Task Force Member Comments
- 6. Adjournment

Next PAC Meeting: September 19, 2023

Purpose:

The purposes of the meeting were as follows:

- To provide a project status update to the Project Advisory Committee (PAC),
- To review the regulatory requirements and planning framework for the area plan.
- To discuss the draft preferred concept highlights and deficiencies.
- To obtain input and guidance regarding draft goals and policies for the area plan.

At the meeting, staff and the consultant provided a PowerPoint presentation that reviewed a summary of the items above and led into a discussion regarding the preferred draft land use concept. In order to clarify the regulatory and planning frameworks of the Fox Ridge Road Area Plan, the regulatory standards and planning goals were carefully reviewed with the PAC, including the MGMUP, MGMUP Framework Plan, McMinnville Comprehensive Plan, and the Parks Master Plan. Using these set requirements, the draft preferred concept was evaluated against all applicable standards and a list of plan highlights and deficiencies was provided to the PAC for review. After discussion on amendments to the preferred concept plan, an open discussion was held regarding aspirational goals and policies the PAC felt the area plan should successfully accomplish. An updated draft of the preferred land use concept and the draft goals and policies will be presented at the next PAC meeting on September 19, 2023, for additional comments and discussion.

(Graphics presented at reduced scale in this report and attachments were presented with full-sized graphics in the PowerPoint presentation, and large-format hard copies of graphics are available).



Page 1 of 2 August 30, 2023

Key Themes:

- Community Park designation. Based on the preferred land use concept map analysis, one of the plan deficiencies identified was the lack of a Community Park designation. The MGMUP Framework Plan calls out a need for a natural resource community park within the study area. After discussion regarding an appropriate location for the park, the PAC agreed that the large open space area located at the west end of the study area would be suitable for a Community Park. This area was selected due to its potential for protecting existing significant tree groves, large acreage to accommodate both passive and active recreational opportunities, and having a potential park feature already identified within the concept plan within that area. The location was also optimal as it connected to the northern ridge that the PAC has identified for natural resource protection and could be connected via primary greenway and secondary trail connections.
- Neighborhood Park designation. At the time of analysis, the draft preferred concept identified a Neighborhood Park central to the Neighborhood Activity Center (NAC). However, after analysis, the Neighborhood Park did not meet the maximum distance requirement of being no more than ½-mile away from all residences within the study area. Because of this requirement, the PAC discussed new potential locations for the park that could meet the minimum size and maximum distance requirements. Per staff suggestion, the natural area located north of Fox Ridge Road at the end of Dawson Lane, and the large open area south of Fox Ridge Road abutting the Masonic Cemetery were prime locations for potential neighborhood parks as they were centrally located and could meet all regulatory requirements. The PAC ultimately decided to designate both locations as two separate neighborhood parks within the study area that were accessible on either side of Fox Ridge Road.
- **Open Space/Natural Areas calculations.** The draft preferred land use concept did not include calculations for the areas designated as "natural area," and the PAC requested that information to be provided within the concept map for reference.
- **Goals and Policies discussion.** The following are comments provided from the PAC regarding goals and policies for the Fox Ridge Road Area Plan:
 - o Protect the Rock Quarry Pond.
 - o Provide a variety of housing types for current and future residents.
 - High-Density Residential to exceed minimum acreage requirement and to be located at the east end of the study area.
 - o Protect existing significant tree groves.
 - Preserve scenic view sheds along the northern ridge of the Fox Ridge Road study area.

Next Steps:

Following PAC Meeting #4, the HHPR team will:

- Work with SERA to update the draft preferred land use concept and reflect the feedback provided at the meeting.
- Create draft goals and policies based on PAC feedback and comments from previous online survey responses and community design workshops.



City of McMinnville – Fox Ridge Road Area Plan



LANDSCAPE ARCHITECTS . SURVEYORS

Date:	September 19, 2023
То:	Tom Schauer, City of McMinnville
From:	Thuy Cao, HHPR
Subject:	City of McMinnville Fox Ridge Road Area Plan PAC Meeting #5 Summary

Agenda Items:

- 1. Call to Order / Roll Call
- 2. Welcome and Introductions
- 3. Information Sharing and Action Items
 - a. Project Status Update
 - b. Draft Concept Analysis and Refinement
 - c. Goals and Policies Discussion
 - d. Next Steps
- 4. Citizen Comments
- 5. Task Force Member Comments
- 6. Adjournment

Next PAC Meeting: November 29, 2023

Summary:

The purpose of the meeting was as follows:

- To provide a project status update to the Project Advisory Committee (PAC),
- To review the most recent land use concept map analysis.
- To obtain input on the draft goals and policies for the area plan.

At the last meeting held on August 30, the Project Advisory Committee was presented with deficiencies in the land use concept plan and asked to provide input on how to address those planning requirements that were not currently being met by the plan. Based on that feedback, SERA revised the plan and provided an updated concept plan for review at PAC Meeting #5. At this meeting, staff and the consultant reviewed an analysis of the updated preferred land use concept and the newly proposed locations for neighborhood parks within the area plan. The Project Advisory Committee was then asked to provide input based on the analysis for further refinement of the concept plan. After reaching consensus on those refinements, the draft goals and policies were then reviewed with comments being provided from the committee for revisions or additions to the goals and policies of the area plan. A summary of the meeting is provided that includes key themes and comments from the Project Advisory Committee that will be taken into consideration when developing the draft Area Plan.



Key Themes:

- Neighborhood Park locations. As a result of discussion during PAC Meeting #4, there were ultimately two neighborhood park locations identified to satisfy the park distance and minimum size requirements for the area. However, when reviewing the analysis for both locations in context of existing slopes, significant tree groves, and natural hazard overlays, the PAC was asked to reconsider the siting of two neighborhood parks. The PAC was asked to consider the incorporation of Neighborhood Park Location #1 (north of Fox Ridge Road at the end of Dawson Lane) as part of the open space network and removing the neighborhood park designation due to its limited use. Rather, Neighborhood Park Location #2 (south of Fox Ridge Road, above the Masonic Cemetery) would be expanded to the east to increase the designated size, allowing for a flatter area suitable for a mix of both active and passive recreation areas. The PAC agreed to these suggestions, acknowledging that Neighborhood Park Location #2 would exceed the minimum size criteria, meet the maximum distance of ½-mile from residences as it is centrally located within the study area, helped preserve identified significant tree groves, and would have flat areas for typical uses associated with neighborhood parks. The PAC also confirmed the establishment of a natural buffer along the area abutting the Masonic Cemetery.
- **Goals and Policies discussion.** Several comments were provided from the PAC regarding amendments to the Area Plan goals and policies. Specifically, suggestions for additional policies included clarifying language on aesthetics and design, lighting to accommodate dark sky practices, safety design features, or placement of specific amenities. Many of these suggestions are addressed through the City's development standards, Great Neighborhood Principles, and language within the draft goals and policies that will be considered at the time of new development prior to any new construction. Additional language has been added to the goals and policies to support the concerns and comments of the PAC where feasible.
- **Preferred Land Use Concept updates.** Concept map updates will need to include the updated Neighborhood Park location and natural buffer from the Masonic Cemetery, along with visual changes to make the map more legible such as differentiating the color of the primary and secondary trails.

Next Steps:

Following PAC Meeting #5, the HHPR team will:

- Update the draft preferred land use concept and reflect the feedback provided at the meeting.
- Amend the draft goals and policies based on comments and concerns from the PAC.
- Present the updated preferred land use concept map, goals and policies, and key findings at the joint Planning Commission and City Council work session scheduled October 10, 2023.



City of McMinnville – Fox Ridge Road Area Plan



LANDSCAPE ARCHITECTS . SURVEYORS

Date:	November 29, 2023
То:	Tom Schauer, City of McMinnville
From:	Thuy Cao, HHPR
Subject:	City of McMinnville Fox Ridge Road Area Plan PAC Meeting #6 Summary

Agenda Items:

- 1. Call to Order / Roll Call
- 2. Welcome and Introductions
- 3. Information Sharing and Action Items:
 - a. Update on Joint Planning Commission/City Council Work Session
 - b. Recommendations on Draft Fox Ridge Road Area Plan.
- 4. Citizen Comments
- 5. Task Force Member Comments
- 6. Adjournment

Purpose:

The purposes of the meeting were as follows:

- To provide an update on the joint Planning Commission/City Council work session and associated updates to the draft Area Plan Map and Goals and Policies.
- To obtain a recommendation from the PAC on the draft area plan that will go to the Planning Commission in the legislative public hearing process.

At the meeting, staff and the consultant provided a PowerPoint presentation that reviewed a summary of the items above and lead into discussion regarding the draft Area Plan Map, goals and policies, and area plan document. A summary of the meeting is provided that includes key themes and comments from the Project Advisory Committee that will be taken into consideration when refining the draft Fox Ridge Road Area Plan document and Area Plan Map. Updated drafts will be presented to the Planning Commission at a public hearing scheduled for January 4, 2024.

Key Themes:

- Area Plan Map. Based on comments provided at the joint Planning Commission/City Council work session, the Project Advisory Committee agreed with the following changes to the Plan Map:
 - o Increase the area designated for commercial/mixed-use within the NAC.
 - Rearrange the high- and medium-density residential configuration so that all high-density residential land use is located north of Fox Ridge Road.
 - o Clearly delineate a multi-use path (Greenway along Fox Ridge Road).



Page 1 of 2 November 29, 2023

- o Better illustrate the NAC area on the Plan Map to clearly show the NAC boundary with labeled focus and support areas.
- **Goals and Policies**. The Project Advisory Committee considered comments provided from the joint Planning Commission/City Council work session and provided guidance on the following:
 - o Include specific goals and policies for natural resource protection and conservation, especially relative to protected tree groves (including tree grove west of Dawson Lane along Fox Ridge Road). This will be accomplished during the Natural Resources Planning that is planned to occur in the near future for inventory and protection/mitigation.
 - o Include specific goal and policy language regarding natural hazards and the planned reduction of density in areas with multiple natural hazards.
 - Ensure that the western park area (previously labeled as a Community Park) is developable and annexation timing/phasing issues will not prevent the realization of the natural resource park by removing the community park designation and identifying the whole area as a Natural Resource Park with trails for connections and scenic viewpoints.
 - Create a policy that planned multi-use paths should be a minimum of 10 12 feet wide for utility purposes.
 - Include language as a goal to protect dark night skies by preventing light pollution from new future developments.
- **Plan Narrative**. Additional narrative was discussed to help clarify specific comments and concerns raised by both the Planning Commission/City Council and the Project Advisory Committee:
 - Provide narrative in the plan equating LDR, MDR and HDR to specific city zoning (i.e., LDR is R1 (9,000 minimum lots) and R2 (7,000 minimum lots), MDR is R3 (6,000 minimum lots) and R4 (5,000 minimum lots) and HDR is R5 (multi-family only).
 - Provide narrative in the plan specifying that the Neighborhood Activity Center overlay is intended to be applied at the Wallace Road roundabout with the intent to encourage mixed-use development (ground floor commercial and upper floor residential) radiating out to high density residential and eventually medium density residential, utilizing language from the Comprehensive Plan and Zoning Ordinance.
 - Provide narrative in the plan specific to the planned Special Use Park/Rock Quarry Pond in terms of utilizing it as a nature resource park that serves the community with trail systems and interpretation for the ecosystem of the area.
 - o Provide narrative about the Natural Resource Park as an intentional park to preserve natural resources that serve the community with trails systems, view sheds and protected ecosystems along the ridgeline such as significant tree groves.

Next Steps:

Following the final PAC Meeting #6, the HHPR team will:

- Revise the Draft Fox Ridge Road Area Plan document to submit to DLCD for noticing prior to the Planning Commission hearing.
- Update the preferred land use concept map or "Area Plan Map" to better illustrate the NAC including focus and support areas, as well as primary and secondary trails.
- Prepare for the Planning Commission hearing scheduled for January 4th, 2024.



APPENDIX E





MARKET ANALYSIS FOR HIGH DENSITY RESIDENTIAL AND COMMERCIAL USES IN THE FOX RIDGE ROAD PLANNING AREA, MCMINNVILLE, OREGON

PREPARED FOR CITY OF MCMINNVILLE, APRIL 2023

JOHNSON ECONOMICS, LLC

621 SW Alder St, Suite 506 Portland, Oregon 97205



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I. INTRODUCTION

This report presents a market and feasibility analysis for residential and commercial uses in the Neighborhood Activity Center (NAC) envisioned within the Fox Ridge Road planning area in McMinnville, Oregon. The main objectives of the study are to provide market overviews; generate reliable assumptions with respect to achievable pricing and absorption; and outline feasible uses, scale, and development forms within the NAC. The residential analysis is focused on high-density uses, evaluating rental and ownership housing separately.

The market analysis is organized in three main sections: Rental Housing, Ownership Housing, and Commercial Space. For each use, we provide an overview of market trends, conduct a survey of comparable properties, and analyze achievable pricing and absorption within the NAC. Residential absorption estimates draw in part on conclusions from the most recent Housing Needs Analysis completed for the City of McMinnville (ECONorthwest, 2019). Identification of feasible uses, development forms, and scale is provided in the Conclusions.

II. EXECUTIVE SUMMARY

RENTAL APARTMENTS

MARKET TRENDS

Demand for rental housing increased over the last decade, reflecting higher thresholds to homeownership and strong millennial household formation. McMinnville has not seen the same development response to this demand as most other cities, and the city experienced a decline in multifamily development over the last decade. The apartment shortage has resulted in a low vacancy rate, currently 1.2% - well below the 5.0% that typically represents a balanced market. In comparison, vacancy rates in the Salem and Portland metro areas are currently 3.9% and 4.5%, respectively.

Rent levels in McMinnville are relatively low, with monthly averages of \$1,200 per unit and \$1.41 per square foot. This may have deterred some new development over the past decade. However, the low vacancy rates suggest that many properties are priced below market-clearing levels.

SURVEY OF COMPARABLES

JOHNSON ECONOMICS surveyed five apartment projects of relatively recent vintage in McMinnville for this analysis. Together, the properties have only three vacant units, representing a vacancy rate of 0.7%. This is unusually low, indicating capacity for additional supply and rent growth. The average rent level across the properties is \$1,524 per unit and \$1.66 per square foot. Some of the properties exhibit clear indications of underpricing.

ACHIEVABLE PRICING

We estimate that a new mid-market apartment project with surface parking in the NAC can achieve monthly rents in the range of \$1,380-\$1,750 per unit in today's market, depending on unit type and size, with per-square-foot (PSF) rents in the \$1.59-1.98 range. These rates are adequate to support traditional walk-up structures, but likely not adequate for more costly formats like elevator buildings with tuck-under or podium parking. We estimate that rental townhomes can achieve rents around \$2,000 per unit and \$1.59 PSF, plus premiums of \$100-150 for attached garages.

Unit Type	Units	Unit Allocation	Average Unit Size	Rent per Unit	Rent per Square Foot
1B/1b Apt	50	30%	700	\$1,384	\$1.98
2B/2b Apt	70	42%	900	\$1,604	\$1.78
3B/2b Apt	30	18%	1,100	\$1,752	\$1.59
3B/2b TH	15	9%	1,300	\$1,957	\$1.51
Total/Avg.	165	100%	912	\$1,596	\$1.75

FIGURE 2.1. ACUIEVARUE RENTAL REICING (1022)

SOURCE: JOHNSON ECONOMICS



ABSORPTION

In the current low-vacancy market, we estimate that an apartment project in the NAC could achieve absorption of around 200 units in a year. Assuming a less pressured market in future years, we estimate that around 150 units can be absorbed in a year, plus around 15 rental townhomes. With two phases separated by 1-2 years of stabilized phaseone operations, we would assume that a project of twice this scale could be built within the NAC.

OWNERSHIP HOUSING

MARKET TRENDS

For-sale attached homes were harder hit during the 2008-09 recession than detached homes due to buyers in this segment generally being younger and more sensitive to layoffs and tightened credit standards. However, the market for attached homes has since recovered, though construction of new attached homes has been very limited in McMinnville. Thus, attached homes represent a smaller share (6%) of all homes sales in McMinnville currently than 10 years ago (10%).

Both attached and detached homes have been undersupplied in McMinnville over the past 10 years, resulting in significant declines in the market time for listed units. In 2022, the median market time was 10 days, while 60-90 days is generally considered to represent a balanced market. The undersupply has caused rapid price gains, as in all other parts of the region, with the median price of attached homes gaining 11.6% per year on average over the past 10 years. In 2022, the median price of attached homes in McMinnville was \$369,000, or \$264 PSF.

SURVEY OF COMPARABLES

JOHNSON ECONOMICS surveyed five subdivisions in McMinnville for this analysis. Three are townhome projects built out between 2004 and 2009, while two are newer detached-home projects with homes built over the past three years. Adjusting sales prices from the past three years to current values using the county median, the homes range from around \$243,000 to \$710,000, or \$188 to \$322 PSF. The average value is \$412,000 per home and \$243 PSF.

ACHIEVABLE PRICING

Based on the resale prices in the surveyed townhome subdivisions and new-home prices in the detached-home subdivisions (adjusted based on typical townhome discounts), we estimate that townhomes in the NAC in the current market would represent pricing in the range of \$360,000 to \$440,000, or \$243-258 PSF. This is likely adequate to support construction of suburban townhomes with a mid-market profile in the NAC.

2-STORY TH.		UNIT MIX				NG
Туре	Units (#)	Units (%)	Home Size	Lot Size	Per Home	Per SF
2B/2.5b	10	33%	1,400	2,000	\$361,400	\$258
3B/2.5b	10	33%	1,600	2,500	\$400,400	\$250
3B/2.5b	10	33%	1,800	3,000	\$436,600	\$243
Total	30	100%	1,600	2,500	\$399,467	\$250

FIGURE 2-2. ACUIEVARIE OWNERCUR REICHAR 1022

SOURCE: JOHNSON ECONOMICS

ABSORPTION

Assuming a normalization of mortgage rates in future years, we estimate that around 15 for-sale townhomes can be absorbed annually in the NAC. This assumes that the supply of new townhomes continues to be limited elsewhere in the city.



COMMERCIAL SPACE

MARKET TRENDS

As in most other places, the shift to online shopping has constrained commercial development in McMinnville in recent years. 2006 was the last year with a substantial amount of new supply, when 81,000 square feet were added to the market. Over the past 10 years, only 34,000 square feet have been completed, according to CoStar. However, 87,000 square feet were absorbed on a net basis over this period, resulting in declining vacancy. The current vacancy rate is 1.8%, which is unusually low. This compares to 2.0% in Salem Metro and 3.5% in Portland Metro. Lease rates have risen in recent years, roughly in pace with general inflation.

SURVEY OF COMPARABLES

JOHNSON ECONOMICS surveyed six commercial properties with a neighborhood orientation for this study: two just south of the NAC at the 2nd Street/Hill Road intersection (built 1990 and 2009), and four from other parts of the Portland-Salem region (built 2008-22). The latter represent some of the most recent commercial developments in peripheral suburban locations in the region. Annual PSF lease rates at the two McMinnville properties are \$18 (modified gross) and \$27.36 (full service). The four regional comparables represent lease rates in the \$23.50-28.00 range (triple net).

ABSORPTION

Current traffic volumes and household counts around the NAC indicate inadequate support for new construction commercial space in the NAC. However, following the completion of 570 housing units in the Fox Ridge planning area, a commercial center in the NAC would be the closest shopping location for an estimated 1,500 households. At that point, we expect a small commercial project with 5,000-10,000 square feet to be feasible in the NAC, primarily with food/beverage and service tenants. Additionally, we expect a daycare center and possibly a gas station with a convenience store to be feasible around the same time.

ACHIEVABLE PRICING

The surveyed comparables and the households sales estimates for the area around the NAC indicate lease rates in the low end of what can support new construction, likely requiring cost-effective designs and features. Based on today's market rates, we would expect lease rates in the \$24-27 range (NNN) to be achievable, with somewhat lower rates for a daycare center.

#	MAJOR CATEGORY	CATEGORY	SQ.FT.	FAR	ACRES	RATE LOW	RATE HIGH
			•				-
1	Eating/drinking places	Restaurant	2,800	0.25	0.3	\$25.00	\$27.00
2	Eating/drinking places	Restaurant/coffee	1,500	0.25	0.1	\$25.00	\$27.00
3	Personal care	Hair/nail/spa salon	1,500	0.25	0.1	\$24.00	\$26.00
4	Health/medical services	Physician/chiropractor	1,500	0.35	0.1	\$24.00	\$26.00
5	Professional/financial services	Real estate/insurance	1,000	0.35	0.1	\$24.00	\$26.00
6	Education	Daycare/preschool	4,000	0.30	0.3	\$22.00	\$24.00
Total			12,300		1.0	\$22.00	\$27.00

FIGURE 2.3: POTENTIAL TENANTS AND ACHIEVABLE PRICING (1Q23)*, SUBJECT SITE

* Achievable lease rates are annual NNN rates per square foot.

SOURCE: JOHNSON ECONOMICS

CONCLUSIONS

FEASIBLE USES

This analysis indicates adequate market support for rental apartments, rental townhomes, ownership townhomes, and commercial space in the NAC. With a single-phase, 12-month absorption period, we estimate that 170 housing units are feasible in the NAC. We would expect these to require roughly eight acres of land. A strip mall and daycare center may need another acre of land, while an additional acre might be absorbed by a gas station with convenience store. Together, these uses would bring the total size of the NAC to roughly 10 acres.



FEASIBLE USES			Res. Density	Com.	Land Need
LAND USE	Scale	Unit	(U/Ac)	FAR	(Acres)
Rental apartments	150	Units	28		5.4
Rental townhomes	15	Units	14		1.1
Ownership townhomes	15	Units	10		1.5
Retail space	8,300	SF		0.27	0.7
Daycare center	4,000	SF		0.30	0.3
Gas station w/conv. store	5,000	SF		0.15	0.8
Total					8.9 (9.7)

FIGURE 2.4: POTENTIAL LAND ABSORPTION

SOURCE: JOHNSON ECONOMICS

We expect there will be potential for a larger residential component, at roughly twice the indicated scale, assuming absorption over a three- to four-year period. This would shorten the time needed to develop adequate support for the commercial component. However, the land need for the NAC would then likely increase to around 17-18 acres.

FEASIBLE BUILDING FORMATS

Based on the anticipated market support and pricing, rental apartments in the NAC are likely to be of a three-story walk-up format with surface parking. The rental townhomes will likely be two-story structures, either with or without attached garages. The ownership townhomes are most likely to be two-story structures with attached garages.

Commercial space for food/beverage and service tenants is most likely to have a standard single-story strip mall format, while a daycare center is most likely to be a single-story building with a gable roof.

LOCATION OF USES

Commercial activity in the NAC will depend on good exposure to auto traffic, and will therefore need a location near one of the major Hill Road intersections, either at Wallace Road or Fox Ridge Road. Assuming future development of the high school site, the Wallace Road intersection will likely provide the strongest exposure, positioning the commercial component to capture demand from residents east of Hill Road in addition to Fox Ridge residents. This will require a site and road layout that provides easy access between Fox Ridge Road and the commercial center.

Both rental apartments and townhomes function well adjacent to commercial uses from a market standpoint. However, we therefore recommend rental apartments closest to the commercial section, as rental housing tends to benefit more from this proximity.



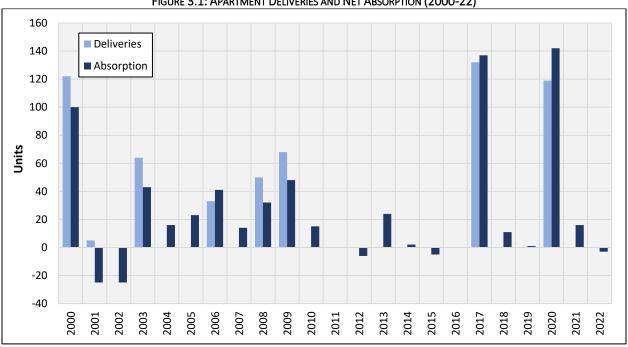
III. RENTAL HOUSING

MARKET TRENDS

SUPPLY AND DEMAND

Demand for rental housing increased notably during the last decade, following the foreclosure crisis and recession in the late 2000s. Stricter credit conditions resulted in fewer households qualifying for mortgages, while rapidly rising college tuition and rents made it more difficult – especially for young households – to save up for the higher downpayment requirements. Thus, segments of the previous homeowner market were now relegated to the rental market. Early in the decade, there was excess supply of ownership housing left over from the foreclosures. Many of these were bought by investors and turned into rentals. As the ownership market recovered and these homes appreciated rapidly, many investors sold the homes – predominantly to owner-occupants. This reduced the supply of single-family rentals, forcing many renters into apartments. Thus, most markets saw strong gains in apartment demand over the decade, which in many places was met by a record construction pace.

McMinnville has not seen the same increase in apartment construction as most other parts of the region. Multifamily building permits for buildings with five or more units averaged 40 units annually over the past decade, compared to 60 units annually during the 2000s (likely including some condominium flats). According to CoStar, which tracks most rental apartment properties with online listings, the supply of new apartments in McMinnville over the past decade was roughly on par with the supply in the prior decade. The new supply was generally absorbed quickly. Net market absorption was as high as 140 units annually in 2017 and 2020, when large new projects were completed. The market absorption has been constrained by a lack of new supply over the past two years, as it was in the first half of the last decade. Note that the CoStar data does not include all recent projects in McMinnville. The Housing Needs Analysis recently completed for the City of McMinnville estimates a need for 75 new multifamily units annually over the coming years – most of which will be rental apartments.





SOURCE: CoStar, JOHNSON ECONOMICS



VACANCY AND RENT GROWTH

Reflecting the limited new supply, apartment properties in McMinnville have seen a decline in vacancy rates over the past 10 years, with a current rate of 1.2%, according to CoStar. A 5.0% rate is generally considered to represent a balanced market, where supply matches demand, and rent growth is kept in line with general income growth. McMinnville has not been at this level since late 2012, when its vacancy rate was on par with that of the Portland and Salem metro areas. Over the following 10 years, the city followed the Salem market for a while, but has diverged from the Salem trend over the past three years. The current low vacancy rate indicates considerable pent-up demand.

One of the factors that has likely sustained strong occupancy in McMinnville is its relatively affordable rent levels. According to CoStar, its average rent level for market-rate units is currently \$1,200 per unit and \$1.41 per square foot. This is well below the average in the Salem and Portland markets. Moreover, properties in McMinnville have not raised their rents as quickly as most properties in these markets, despite stronger occupancy. Over the past five years, the market-wide rent growth has averaged 4.5% per year. The current low vacancy rate suggests that the market is somewhat underpriced currently. The relatively low rents may have deterred new development over the past decade.

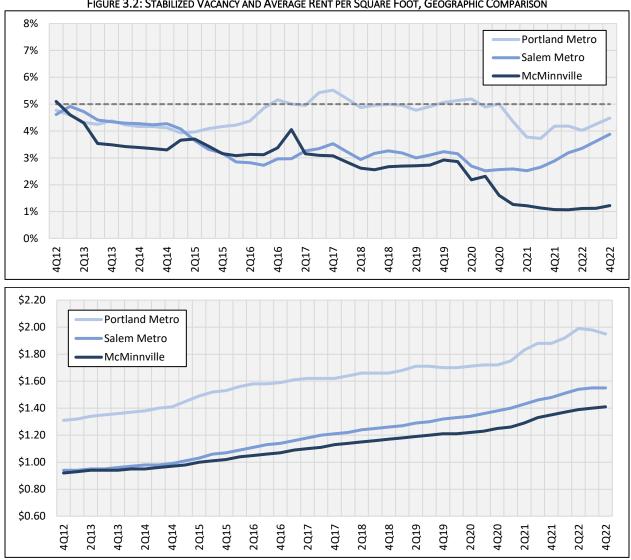


FIGURE 3.2: STABILIZED VACANCY AND AVERAGE RENT PER SQUARE FOOT, GEOGRAPHIC COMPARISON

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SOURCE: CoStar, JOHNSON ECONOMICS



SURVEY OF COMPARABLES

COMPARABLES

JOHNSON ECONOMICS surveyed five apartment projects of relatively recent vintage in McMinnville for this analysis. Three of these opened over the past three years, while one opened in 2016 and one in 2009. The projects represent a typical suburban, walk-up format, with multiple two- or three-story buildings. None of the projects include ground-floor commercial space, which is not represented at apartment projects in suburban parts of McMinnville.

The following map shows the locations of the surveyed properties. Detailed profiles of the projects are included over the next pages, followed by a rent and vacancy summary.

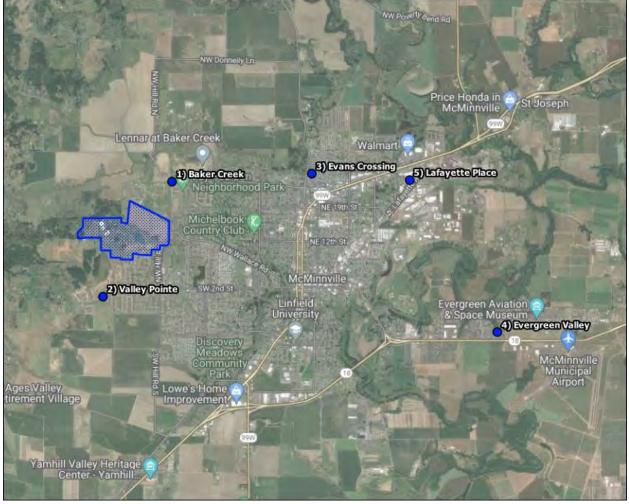


FIGURE 3.3: MAP OF SURVEYED APARTMENT PROPERTIES

SOURCE: JOHNSON ECONOMICS



FIGURE 3.4: PROFILES OF SURVEYED APARTMENT PROPERTIES

1 - BAKER CREEK APARTMENTS 2005 NW 23rd St, McMinnville, OR



98.6%

\$1.47

2009

68

1.69

100.0%

\$1.69

Stainless steel appliances 9-foot ceilings, washer/dryer Balcony

	UNIT CHARACTERISTICS		OCCUPANCY		RENTS				
-	Units (#)	Units (%)	Avg. Size	Vac. (#)	Occ. (%)	Low	High	Average	Avg. PSF
1B/1b	11	16%	750	0	100%	\$1,200	\$1,200	\$1,200	\$1.60
2B/2b	54	77%	952	1	98%	\$1,400	\$1,400	\$1,400	\$1.47
3B/2b	5	7%	1,204	0	100%	\$1,575	\$1,575	\$1,575	\$1.31
Tot./Avg:	70	100%	938	1	99%	\$1,200	\$1,575	\$1,381	\$1.47

On-site management

2 - VALLEY POINTE 2825 SW 2nd St, McMinnville, OR



OCCUPANCY:

YEAR BUILT:

TOTAL UNITS:

OCCUPANCY:

AVERAGE RENT/SF:

PARKING SPACES/UNIT:

AVERAGE RENT/SF:



Project Amenities Park Playground (Pets not allowed)



Unit Amenities (Renovated) Laminate counters, white appliances Carpet and vinyl flooring Washer/dryer hookups 9' and vaulted ceilings Patio/balcony

	UNIT CHARACTERISTICS		OCCUPANCY		RENTS				
-	Units (#)	Units (%)	Avg. Size	Vac. (#)	Occ. (%)	Low	High	Average	Avg. PSF
2B/1b	34	50%	832	0	100%	\$1,400	\$1,400	\$1,400	\$1.68
2B/2b	34	50%	918	0	100%	\$1,550	\$1,550	\$1,550	\$1.69
Tot./Avg:	68	100%	875	0	100%	\$1,400	\$1,550	\$1,479	\$1.69

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3 - EVANS CROSSING APARTMENTS 2501 NE Evans St, McMinnville, OR



2020

119

1.61

99.2% \$1.65

66

YEAR BUILT:

TOTAL UNITS:

OCCUPANCY:

AVERAGE RENT/SF:

PARKING SPACES/UNIT:



Project Amenities

Laundry room

Dog park

On-site management



Vinyl plank, carpet flooring Laminate countertops White appliances 9-foot ceilings Balcony

	UNIT	UNIT CHARACTERISTICS		OCCU	OCCUPANCY		RENTS				
	Units (#)	Units (%)	Avg. Size	Vac. (#)	Occ. (%)	Low	High	Average	Avg. PSF		
1B/1b	18	15%	704	0	100%	\$1,350	\$1,350	\$1,350	\$1.92		
2B/1b	24	20%	940	1	96%	\$1,450	\$1,450	\$1,450	\$1.54		
2B/2b	77	65%	965	0	100%	\$1,575	\$1,575	\$1,575	\$1.63		
Tot./Avg:	119	100%	920	1	99%	\$1,350	\$1,575	\$1,523	\$1.65		

4 - EVERGREEN VALLEY APARTMENTS 725 SE Ford St, McMinnville, OR



TOTAL UNITS: PARKING SPACES/UNIT: 1.74 OCCUPANCY: 100.0% AVERAGE RENT/SF: \$1.78



Project Amenities Playground Dog park



Unit Amenities Granite countertops Vinyl and carpet flooring Stainless steel appliances 8-foot ceilings, A/C Balcony

	UNIT CHARACTERISTICS		OCCUPANCY		RENTS				
-	Units (#)	Units (%)	Avg. Size	Vac. (#)	Occ. (%)	Low	High	Average	Avg. PSF
2B/2b	66	100%	952	0	100%	\$1,695	\$1,695	\$1,695	\$1.78
Tot./Avg:	66	100%	952	0	100%	\$1,695	\$1,695	\$1,695	\$1.78



5 - LAFAYETTE PLACE

2349 NE Lafayette Ave, McMinnville, OR



TOTAL UNITS:

OCCUPANCY:

PARKING SPACES/UNIT:

AVERAGE RENT/SF:



Project Amenities Community lounge Fitness room Dedicated surface parking (Pets not allowed)



Unit Amenities Tile countertops, cherry wood cabinets Carpet and vinyl plank flooring Black appliances, washer/dryer A/C, ceiling fan, 8'/vaulted ceilings Balcony/patio w/storage

	UNIT CHARACTERISTICS		OCCUPANCY		RENTS					
-	Units (#)	Units (%)	Avg. Size	Vac. (#)	Occ. (%)	Low	High	Average	Avg. PSF	
1B/1b	36	27%	725	1	97%	\$1,395	\$1,395	\$1,395	\$1.92	
2B/2b	96	73%	952	0	100%	\$1,595	\$1,595	\$1,595	\$1.68	
Tot./Avg:	132	100%	890	1	99%	\$1,395	\$1,595	\$1,540	\$1.73	

SOURCE: Property managers/agents, property websites, Craigslist, RealPage, CoStar, JOHNSON ECONOMICS

132

1.57

99.2%

\$1.73

FIGURE 3.5: RENT AND OCCUPANCY SUMMARY, SURVEYED APARTMENT PROPERTIES

				UNIT C	HARAC	TERISTIC	S		R	RENT CHAP	RACTERIS	TICS
Project Name/									Low	High	Avg.	Avg. Rent
Location	Year	Occupancy	Туре	Units	Mix	Sq. Ft.	Vac	ant	Rent	Rent	Rent	Per SF.
1) Baker Creek Apts.	2021	99%	1B/1b	11	16%	750	0	0%	\$1,200 -	\$1,200	\$1,200	\$1.60
2005 NW 23rd St,			2B/2b	54	77%	952	1	2%	\$1,400 -	\$1,400	\$1,400	\$1.47
McMinnville, OR			3B/2b	5	7%	1204	0	0%	\$1,575 -	\$1,575	\$1,575	\$1.31
			Tot./Avg:	70	100%	938	1	1%	\$1,200 -	\$1,575	\$1,381	\$1.47
2) Valley Pointe	2009	100%	2B/1b	34	50%	832	0	0%	\$1,400 -	\$1,400	\$1,400	\$1.68
2825 SW 2nd St,			2B/2b	34	50%	918	0	0%	\$1,550 -	\$1,550	\$1,550	\$1.69
McMinnville, OR			Tot./Avg:	68	100%	875	0	0%	\$1,400 -	\$1,550	\$1,479	\$1.69
3) Evans Crossing Apts.	2020	99%	1B/1b	18	15%	704	0	0%	\$1,350 -	\$1,350	\$1,350	\$1.92
2501 NE Evans St,			2B/1b	24	20%	940	1	4%	\$1,450 -	\$1,450	\$1,450	\$1.54
McMinnville, OR			2B/2b	77	65%	965	0	0%	\$1,575 -	\$1,575	\$1,575	\$1.63
			Tot./Avg:	119	100%	920	1	1%	\$1,350 -	\$1,575	\$1,523	\$1.65
4) Evergreen Valley	2020	100%										
725 SE Ford St,			2B/2b	66	100%	952	0	0%	\$1,695 -	\$1,695	\$1,695	\$1.78
McMinnville, OR			Tot./Avg:	66	100%	952	0	0%	\$1,695 -	\$1,695	\$1,695	\$1.78
5) Lafayette Place	2016	99%	1B/1b	36	27%	725	1	3%	\$1,395 -	\$1,395	\$1,395	\$1.92
2349 NE Lafayette Ave,			2B/2b	96	73%	952	0	0%	\$1,595 -		\$1,595	\$1.68
McMinnville, OR			Tot./Avg:	132	100%	890	1	1%	\$1,395 -	\$1,595	\$1,540	\$1.73

SOURCE: Property managers/agents, property websites, Craigslist, RealPage, CoStar, JOHNSON ECONOMICS



OCCUPANCY

All five of the surveyed properties are at least 99% occupied. In total, only three units out of 455 are currently vacant. This represents a vacancy rate of 0.7% (99.3% occupancy). This is unusually low, indicating capacity for additional supply and rent growth.

<u>Rents</u>

Rents at the surveyed properties range from \$1,200 to 1,600 per month and \$1.31 to \$1.92 per square foot (PSF). The average rent level in the sample is \$1,524 per unit and \$1.66 per square foot. None of the properties currently offer any rent concessions.

With 5.0% vacancy typically regarded to represent market-clearing rent levels, the current low vacancy rates indicate that the properties are priced below market levels.

Rents are generally highest at the properties in the east, which are near highways, employment, and services. The lowest rent levels are Baker Creek Apartments, despite this being the newest project in the sample (built 2021). This property thus appears particularly underpriced. The highest rent levels are represented by Evergreen Valley (built 2020), which is located near the McMinnville Airport. Between these two properties are the three remaining properties, which all have similar rent levels. These include Valley Pointe, which is located south of Fox Ridge along SW 2nd Street. The project is somewhat dated (built 2009), but benefits from a location adjacent to the West Hills Neighborhood Park. Taking into account that this property is 100% leased, significantly higher market-clearing rents should be achievable for a new project with a similar location.

The following scatter plot displays the observed rents as a function of square footage, with each plot representing the average for a specific unit type.

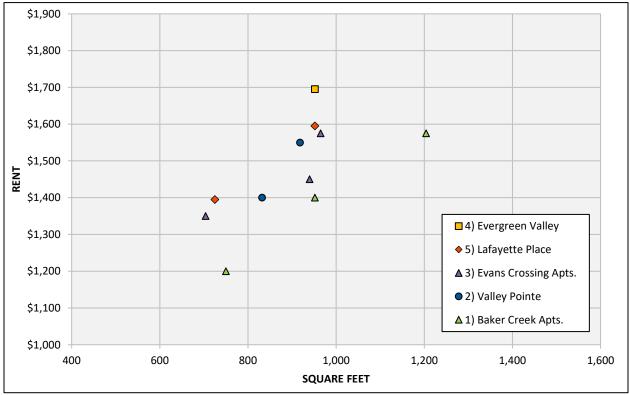


FIGURE 3.6: OBSERVED COMPARABLE RENTS

SOURCE: Property managers/agents, property websites, Craigslist, RealPage, CoStar, JOHNSON ECONOMICS

CITY OF MCMINNVILLE | FOX RIDGE MARKET ANALYSIS



ACHIEVABLE PRICING

Achievable pricing in the Neighborhood Activity Center (NAC) will depend on the standard, profile, and amenities of the community. In the following, we assume a nearby park and on-site amenities attractive to renters, as well as a mid-market apartment profile with surface parking. Though none of the comparables include townhomes, we include rent estimates for three-bedroom townhome units based on typical rent differentials to regular apartment flats. We do not assume that a commercial center is in place at the time of lease-up, which could generate rent premiums.

With the mentioned assumptions, we would expect rental apartments within the NAC to achieve pricing in the upper end of the sample. Access to a park and commercial amenities is expected to partly offset the greater distance to employment and major commercial areas. We would expect rents below Evergreen Valley, which is a recent project with a Highway 18 location, but just above Lafayette Place, which is seven years old, though it benefits from proximity to a large commercial area (Walmart, WinCo, Safeway).

The following chart displays our rent estimates as a function of unit type and square footage, alongside rents from the comparables. Rent examples for different unit types and sizes are shown on the next page. These rates are based on market rents as of 1Q23. We would expect the achievable rent levels to move with the wider market prior to market introduction. The estimates reflect 12-month contracts with utilities billed separately.

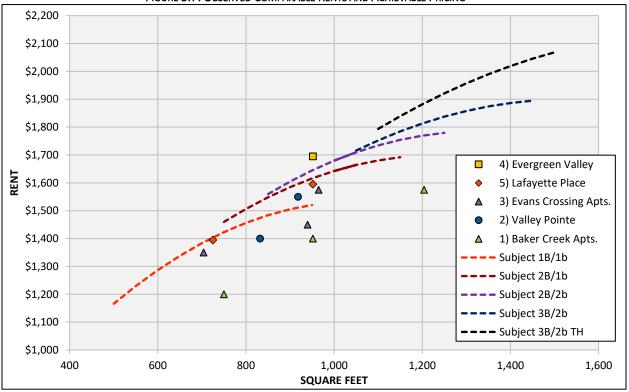


FIGURE 3.7: OBSERVED COMPARABLE RENTS AND ACHIEVABLE PRICING

SOURCE: Property managers/agents, property websites, Craigslist, RealPage, CoStar, JOHNSON ECONOMICS

With a program consisting of one- to three-bedroom apartments ranging in size from 700 to 1,100 square feet, plus three-bedroom townhomes with 1,300 square feet (see next page), the estimates indicate monthly rent levels ranging from \$1,384 to \$1,957 per unit and \$1.51 to \$1.98 PSF. With the suggested unit mix, this translates into an average rent level of \$1,596 per unit and \$1.75 PSF. We expect this to be adequate to support traditional two and three-story walk-up structures with surface parking, but not adequate for more costly formats like elevator buildings with tuck-under or podium parking.

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Unit Type	Units	Unit Allocation	Average Unit Size	Rent per Unit	Rent per Square Foot
1B/1b Apt	50	30%	700	\$1,384	\$1.98
2B/2b Apt	70	42%	900	\$1,604	\$1.78
3B/2b Apt	30	18%	1,100	\$1,752	\$1.59
3B/2b TH	15	9%	1,300	\$1,957	\$1.51
Total/Avg.	165	100%	912	\$1,596	\$1.75

FIGURE 3.8: ACHIEVABLE PRICING, 1Q23

SOURCE: JOHNSON ECONOMICS

ABSORPTION

MARKET-WIDE ABSORPTION

The historical absorption data presented earlier in this section reflected annual net absorption of around 140 units in the two most recent years with significant amounts of new supply. According to Costar, 137 units were absorbed on a net basis in 2017, when 132 new units were delivered (Lafayette Place) and the city-wide vacancy rate averaged 3.3%. In 2020, 142 units were absorbed when 119 units were delivered and the vacancy rate averaged 2.2%.

The current vacancy rate in McMinnville is 1.2%, according to CoStar. This additional market pressure indicates that absorption higher than 140 units can be achieved, assuming adequate supply.

According to the Census Bureau, there are 2,600 rental apartment households in McMinnville currently. At the current vacancy rate, these households can absorb 165 additional units before the vacancy rate climbs above the 5.0% that represents a balanced market. Additionally, with a current vacancy rate around 1.0%, there is also significant pent-up demand from prospective renters unable to find units that match their needs. Thus, we would expect the current annual absorption potential to be well above 200 units, not taking into account new demand from population growth.

According to the most recent Housing Needs Analysis (HNA) conducted for the City of McMinnville (ECONorthwest, 2019), population growth in the city is projected to generate a need for 75 new multifamily units (mostly apartments) annually in coming years. Demand for other housing forms is projected to grow by roughly 150 units annually. The total housing need is thus estimated to grow by around 225 units per year. Over the past 15 years, the city has only been able to produce housing at this level once, in 2019, based on issued building permits. Over the past five years, the new housing supply has averaged roughly 175 units annually. In markets with undersupply of housing, the unmet demand typically filters down to the least costly housing form (rental apartments) as the least affluent households are priced out of the more expensive housing forms. Thus, it is not unlikely that McMinnville in coming years will see additional apartment demand from an undersupplied single-family market. The potential market-wide apartment absorption may therefore be higher than the 75 units annually indicated by the HNA.

Demand for attached homes is estimated to grow by 27 units annually, according to the HNA. We will assume that 50% of this will be for rental units, indicating annual absorption of around 15 attached rental homes (the current rental percentage in this category is 71%, according to Census Bureau, but includes renter-occupied for-sale homes).

SUBJECT SITE ABSORPTION

Given the current demand pressures, we would expect a single-phase apartment project in McMinnville to absorb up to 200 units annually in the current market. If additional supply were to ease the pressures to the point where the market-wide vacancy rate reaches 5.0%, we would assume that around 100 units could be absorbed annually. As McMinnville's vacancy rate has stayed well below 4.0% since 2013, we regard the latter scenario to be unlikely. We therefore expect a project with around 150 apartments to be feasible in the NAC with an absorption period of around 12 months in coming years. Additionally, we would assume that around 15 rental townhomes can be absorbed annually. We would assume that up to 300 apartments and 30 townhomes may be feasible over a period of three to four years, assuming two-phase approach with one to two years of stabilized phase-one operations.

CITY OF MCMINNVILLE | FOX RIDGE MARKET ANALYSIS



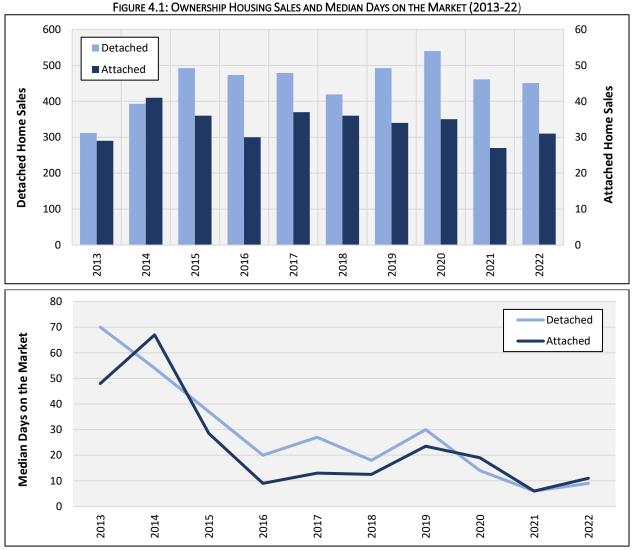
IV. OWNERSHIP HOUSING

MARKET TRENDS

SALES VELOCITY

Detached single-family homes currently account for 94% of all home sales in McMinnville, while attached homes account for 6%. The latter made up roughly 10% of all sales transactions early in the last decade. Based on records from the Regional Multiple Listing System (RMLS), the total sales volume has been fairly stable at around 500 transactions per year over the past 10 years.

The stable sales pace masks the increase in demand that has taken place over this period. This is evident in the decline in market time for listed units. In 2013 the median time between listing and sale was 68 days. By 2021, the median had fallen to 6 days. There was a slight increase to 10 days in 2022, and sales so far in 2023 indicate a continued increase, reflecting the impact of higher mortgage rates. Attached homes have generally sold quicker than detached homes over the past decade, though there has been little difference between the two in recent years. A median market time of 60-90 days is generally considered to represent a balanced market in terms of supply and demand.



SOURCE: RMLS, JOHNSON ECONOMICS CITY OF MCMINNVILLE | FOX RIDGE MARKET ANALYSIS



SALES PRICES

Sales prices in McMinnville have risen rapidly over the past 10 years, as they have all across the Pacific Northwest. Attached homes have seen the strongest gains, with an average annual price increase of 11.6%. This might reflect that attached home values were more depressed in the wake of the 2008-09 recession due to the loss of demand from young buyers. Detached homes have gained 10.1% annually over the same period. Median prices in 2022 were \$453,000 for detached homes and \$369,000 for attached homes. On per-square-foot (PSF) basis, the median was \$280 for detached homes and \$264 for attached homes.

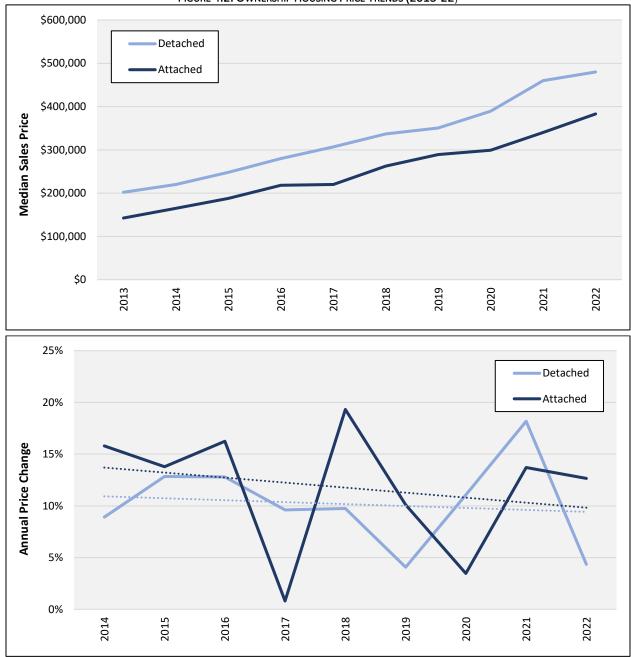


FIGURE 4.2: OWNERSHIP HOUSING PRICE TRENDS (2013-22)

SOURCE: RMLS, JOHNSON ECONOMICS

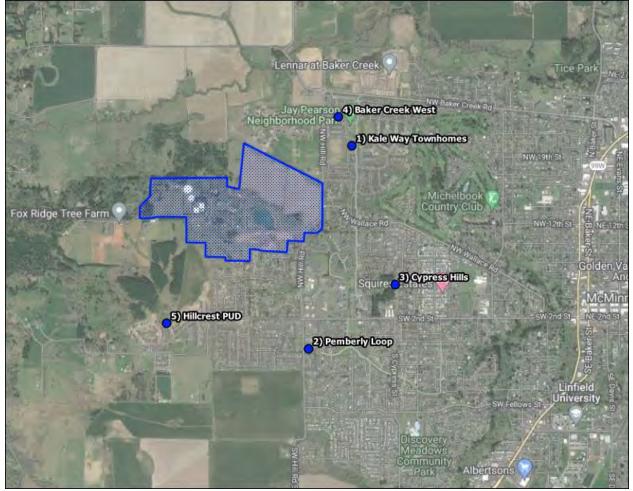


SURVEY OF COMPARABLES

COMPARABLES

JOHNSON ECONOMICS surveyed five subdivisions in McMinnville for this analysis. Three are suburban, two-story townhome projects, built out between 2004 and 2009 (#1-3). In the following pricing analysis, we will rely on resale transactions within these subdivisions. Due to the lack of more recent townhome projects, we have included two recent detached-home projects near the Fox Ridge area (#4-5). We will use new-home transactions from these projects in order to provide additional pricing references for townhomes, taking into account typical price differentials between the two housing types. The following map shows the locations of the surveyed subdivisions.

Details on each project is included over the next pages. We have included the most recent sales transactions within each subdivision, with estimates of current value based on trended price estimates, using an index of monthly median sales prices in Yamhill County (the county dataset reflects the same price trend as McMinnville, but with more data points and less random fluctuations).





SOURCE: JOHNSON ECONOMICS



FIGURE 4.4: PROFILES OF SURVEYED SUBDIVISIONS

1 - KALE WAY TOWNHOMES <u>NW Yohn Ranch Dr, NW Kale Way, McMinnville, Oregon</u>







Community Amenities Adjacent park w/playground Walking trail (No HOA fees)



Typical Unit Amenities Laminate plank, carpet, vinyl floors Granite and laminate countertops Walk-in pantry Stainless appliances Patio, A/C

		BUI	LDING DETA	ILS	SA	SALES PRICE & CURRENT VALUE			
Street Address	Lot Size (SF)	Size (SF)	Beds	Baths	Date	Price (\$)	Curr. Value	\$/SF	
1952 Nw Yohn Ranch	2,178	1,444	2	2.1	10/28/2022	\$379 <i>,</i> 000	\$356,017	\$247	
2022 Nw Kale Way	2,613	1,359	2	2.1	7/22/2022	\$380,000	\$340,792	\$251	
2000 Nw Yohn Ranch	2,178	1,444	3	2.1	6/8/2021	\$325,000	\$323,233	\$224	
2050 Nw Yohn Ranch	2,178	1,431	3	2.1	4/9/2021	\$315,000	\$326,241	\$228	
2006 Nw Kale Way	2,613	1,444	3	2.1	8/31/2020	\$295,000	\$332 <i>,</i> 860	\$231	

2 - PEMBERLY LOOP

SW Pemberly Loop, McMinnville, Oregon



TYPE:	2-Story Townhomes
YEAR BUILT:	2007-09
TOTAL LOTS:	21
AVERAGE LOT SIZE:	2,607
AVERAGE PRICE/SF:	\$206



Community Amenities (HOA fees: \$75/mo.)



Typical Unit Amenities Laminate, tile, carpet flooring Tile, laminate countertops Black appliances Gas fireplace Vaulted ceilings, A/C, patio

		BUI	LDING DETA	ILS	SALES PRICE & CURRENT VALUE				
Street Address	Lot Size (SF)	Size (SF)	Beds	Baths	Date	Price (\$)	Curr. Value	\$/SF	
416 Sw Pemberly Loc	4,791	1,930	3	2.1	7/29/2022	\$425 <i>,</i> 000	\$381,149	\$197	
339 Sw Pemberly Loc	2,178	1,503	3	2.1	3/11/2022	\$355,000	\$328,698	\$219	
336 Sw Pemberly Loc	1,742	1,597	3	2.1	11/15/2021	\$357,000	\$348,977	\$219	
417 Sw Pemberly Loc	2,178	1,732	3	2.1	3/25/2021	\$329,000	\$347,780	\$201	
433 Sw Pemberly Loc	2,178	1,732	3	2.1	12/28/2020	\$299,150	\$325,612	\$188	
423 Sw Pemberly Loc	2,178	1,732	3	2.1	4/15/2020	\$300,000	\$352,613	\$204	

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3 - CYPRESS HILLS

NW Cypress St at W 6th St, McMinnville, Oregon







Community Amenities Backing forested hill (No HOA fees)



Typical Unit Amenities Laminate plank, carpet, vinyl flooring Laminate countertops White appliances, el. range Vaulted ceilings, split level entry Deck

		BUI	BUILDING DETAILS			SALES PRICE & CURRENT VALUE				
Street Address	Lot Size (SF)	Size (SF)	Beds	Baths	Date	Price (\$)	Curr. Value	\$/SF		
527 Nw Cypress St	2,613	1,480	3	2.1	2/3/2023	\$380,000	\$380,000	\$257		
675 Nw Cypress St	1,742	1,306	2	2.1	5/27/2022	\$379,500	\$340,178	\$260		
563 Nw Cypress St	2,613	1,480	3	2.1	7/2/2021	\$338,000	\$332,697	\$225		
575 Nw Cypress St	2,613	1,480	3	2.1	5/24/2021	\$340,000	\$345,049	\$233		
511 Nw Cypress St	1,742	1,308	2	2.0	2/1/2019	\$243 <i>,</i> 000	\$305,657	\$234		
667 Nw Cypress St	2,613	1,480	3	2.1	10/19/2018	\$265 <i>,</i> 000	\$336,751	\$228		

4 - BAKER CREEK WEST

NW Baker Creek Rd & NW Hill Rd, McMinnville, Oregon



TYPE:	2-Story Detached
YEAR BUILT:	2019+
TOTAL LOTS:	125
TYPICAL LOT SIZE:	4,000
AVERAGE PRICE/SF:	\$269



Community Amenities Neighborhood park Playground Trails (HOA fees: \$28/mo.)



Typical Unit Amenities Laminate plank, carpet flooring Quartz/tile countertops Stainless appliances, kitchen island Gas fireplace/range, walk-in closet 9-foot ceilings, A/C

		BUI	LDING DETA	ILS	SALES PRICE & CURRENT VALUE			E	
Street Address	Lot Size (SF)	Size (SF)	Beds	Baths	Date	Price (\$)	Curr. Value	\$/SF	
1939 Nw Haun Dr	3,049	1,532	3	2.1	2/10/2023	\$429,000	\$429,000	\$280	
2276 Nw Woodland D	3,049	1,525	3	2.1	1/27/2023	\$420,000	\$423,776	\$278	
2003 Nw 21St St	3,049	1,526	3	2.1	9/15/2022	\$442,000	\$406,946	\$267	
2398 Nw Matteo Dr	3,484	1,498	3	2.1	6/30/2022	\$435,500	\$388,016	\$259	
1984 Nw 21St St	3,049	1,498	3	2.1	5/20/2022	\$440,000	\$394,409	\$263	
2316 Nw Matteo Dr	3,484	1,498	3	2.1	3/30/2022	\$424,000	\$392,585	\$262	

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5 - HILLCREST PD (PART)

SW 2nd St, Valley's Edge St, NW Brookside St, McMinnville, Oregon



YEAR BUILT:

TOTAL LOTS:

TYPICAL LOT SIZE:

AVERAGE PRICE/SF:



Community Amenities Neighborhood Park Playground Views (No HOA fees)



Typical Unit Amenities Hardwood, laminate, carpet flooring Stone countertops Stainless appliances, kitchen island Gas fireplace/range 9-foot ceilings, A/C, deck

		BUI	LDING DETA	AILS	SALES PRICE & CURRENT VALUE			
Street Address	Lot Size (SF)	Size (SF)	Beds	Baths	Date	Price (\$)	Curr. Value	\$/SF
2837 Nw Mt Ashland Ln	6,969	2,548	4	2.1	1/31/2023	\$650 <i>,</i> 000	\$655,844	\$257
2893 Nw Mt Ashland Ln	6,969	2,538	4	2.1	1/3/2023	\$703,900	\$710,229	\$280
2999 Nw 2Nd St	12,632	1,620	3	2.0	12/8/2022	\$525,000	\$521,284	\$322
2842 Nw Mt Ashland Ln	8,276	2,727	4	2.1	12/5/2022	\$650,000	\$645,399	\$237
2848 Nw Mt Ashland Ln	8,276	2,504	4	2.1	11/23/2022	\$650 <i>,</i> 000	\$626,073	\$250
115 Sw Blue Heron Ct	8,276	1,729	4	2.1	10/31/2022	\$499,900	\$469,586	\$272

SOURCE: RMLS, Yamhill County, Google Earth, JOHNSON ECONOMICS

2019+

9,000

\$281

94



FIGURE 4.5: RECENT HOME SALES SUMMARY, SURVEYED SUBDIVISIONS

SUBDIVISION		HOME TYPE				HOME PRICES					
Location	Property Address	Lot Size (SF)	Size (SF)	Beds	Baths	Date	Price (\$)	Curr. Value	\$/SF		
1) Kale Way Townh.	1952 Nw Yohn Ranch Dr	2,178	1,444	2	2.1	10/28/2022	\$379 <i>,</i> 000	\$356,017	\$247		
NW Yohn Ranch Dr	2022 Nw Kale Way	2,613	1,359	2	2.1	7/22/2022	\$380,000	\$340,792	\$251		
NW Kale Way	2000 Nw Yohn Ranch Dr	2,178	1,444	3	2.1	6/8/2021	\$325,000	\$323,233	\$224		
McMinnville, OR	2050 Nw Yohn Ranch Dr	2,178	1,431	3	2.1	4/9/2021	\$315,000	\$326,241	\$228		
	2006 Nw Kale Way	2,613	1,444	3	2.1	8/31/2020	\$295,000	\$332,860	\$231		
Townhomes, 2006-07	2030 Nw Yohn Ranch Dr	2,178	1,359	2	2.1	8/2/2019	\$275 <i>,</i> 000	\$337,239	\$248		
2) Pemberly Loop	416 Sw Pemberly Loop	4,791	1,930	3	2.1	7/29/2022	\$425 <i>,</i> 000	\$381,149	\$197		
SW Pemberly Loop	339 Sw Pemberly Loop	2,178	1,503	3	2.1	3/11/2022	\$355,000	\$328 <i>,</i> 698	\$219		
McMinnville, OR	336 Sw Pemberly Loop	1,742	1,597	3	2.1	11/15/2021	\$357 <i>,</i> 000	\$348,977	\$219		
	417 Sw Pemberly Loop	2,178	1,732	3	2.1	3/25/2021	\$329,000	\$347,780	\$201		
Townhomes, 2007-09	433 Sw Pemberly Loop	2,178	1,732	3	2.1	12/28/2020	\$299,150	\$325,612	\$188		
3) Cypress Hills	527 Nw Cypress St	2,613	1,480	3	2.1	2/3/2023	\$380,000	\$380,000	\$257		
NW Cypress St	675 Nw Cypress St	1,742	1,306	2	2.1	5/27/2022	\$379 <i>,</i> 500	\$340,178	\$260		
McMinnville, OR	563 Nw Cypress St	2,613	1,480	3	2.1	7/2/2021	\$338,000	\$332 <i>,</i> 697	\$225		
	575 Nw Cypress St	2,613	1,480	3	2.1	5/24/2021	\$340,000	\$345,049	\$233		
Townhomes, 2004	511 Nw Cypress St	1,742	1,308	2	2.0	2/1/2019	\$243,000	\$305,657	\$234		
4) Baker Creek West	1939 Nw Haun Dr	3,049	1,532	3	2.1	2/10/2023	\$429,000	\$429,000	\$280		
NW Baker Creek Rd	2276 Nw Woodland Dr	3,049	1,525	3	2.1	1/27/2023	\$420,000	\$423,776	\$278		
NW Hill Rd	2003 Nw 21St St	3,049	1,526	3	2.1	9/15/2022	\$442,000	\$406,946	\$267		
McMinnville, OR	2398 Nw Matteo Dr	3,484	1,498	3	2.1	6/30/2022	\$435 <i>,</i> 500	\$388,016	\$259		
	1984 Nw 21St St	3,049	1,498	3	2.1	5/20/2022	\$440,000	\$394,409	\$263		
SF Detached, 2019+	2316 Nw Matteo Dr	3,484	1,498	3	2.1	3/30/2022	\$424,000	\$392,585	\$262		
5) Hillcrest PD	2837 Nw Mt Ashland Ln	6,969	2,548	4	2.1	1/31/2023	\$650 <i>,</i> 000	\$655,844	\$257		
SW 2nd St	2893 Nw Mt Ashland Ln	6,969	2,538	4	2.1	1/3/2023	\$703 <i>,</i> 900	\$710,229	\$280		
Valley's Edge St	2999 Nw 2Nd St	12,632	1,620	3	2.0	12/8/2022	\$525,000	\$521,284	\$322		
McMinnville, OR	2842 Nw Mt Ashland Ln	8,276	2,727	4	2.1	12/5/2022	\$650,000	\$645 <i>,</i> 399	\$237		
	2848 Nw Mt Ashland Ln	8,276	2,504	4	2.1	11/23/2022	\$650,000	\$626 <i>,</i> 073	\$250		
SF Detached, 2019+	2842 Nw Mt Ashland Ln	8,276	2,727	4	2.1	12/5/2022	\$650,000	\$645 <i>,</i> 399	\$237		

SOURCE: RMLS, Yamhill County, JOHNSON ECONOMICS

Adjusted to current values, the most recent sales transactions at the surveyed projects range from around \$243,000 to \$710,000 per home and \$188 to \$322 per square foot (PSF). The average value is \$412,000 per home and \$243 PSF.

The three townhome projects represent the lowest current values, reflecting the housing form and that these are resale transactions of homes built in the 2000s. The lowest values are represented by Pemberly Loop, which is the only of the townhome projects with HOA fees (\$75/mo.). Hillcrest, which is without HOA fees, represents the highest values, also when adjusted for home size. This reflects its detached-home format, its relatively upscale home features, and its large share of single-story homes – which sell at a premium on PSF basis. The following scatter plot displays the sales prices adjusted to current levels as a function of square footage.



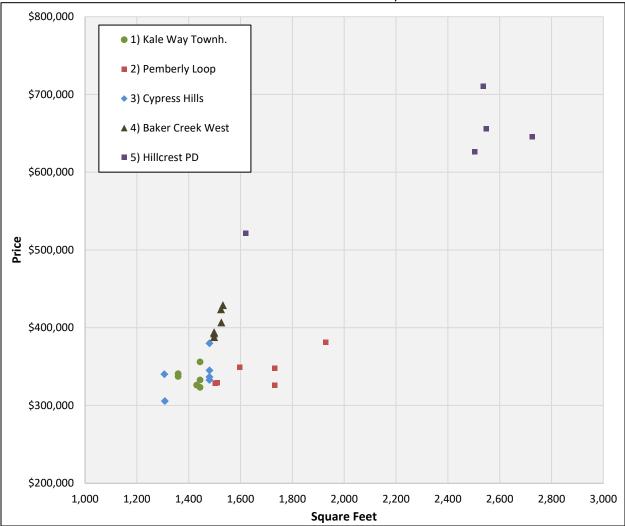


FIGURE 4.6: RECENT SALES PRICES ADJUSTED TO CURRENT LEVELS, SURVEYED SUBDIVISIONS

SOURCE: RMLS, Yamhill County, JOHNSON ECONOMICS

ACHIEVABLE PRICING

Achievable pricing in the NAC will depend on the standard, profile, and amenities of the community, as well as parks and amenities at the site. In the following, we make the same assumptions as for the rental housing regarding amenities and market positioning. These include the assumption that no commercial amenities will be in place at time of sale.

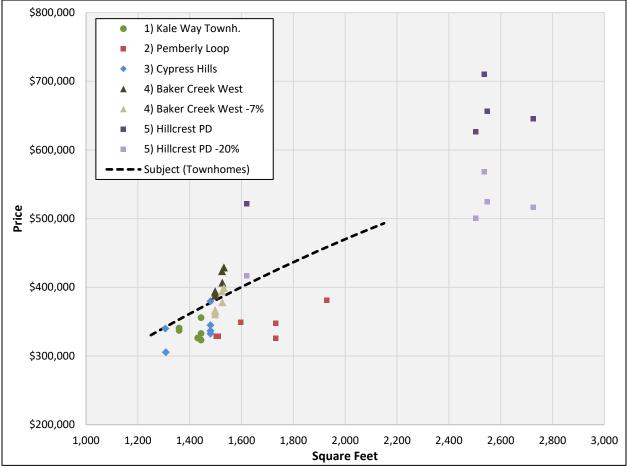
In order to assist the process of estimating achievable pricing, we first adjust the detached-home values from Hillcrest and Baker Creek West to be representative of townhomes. For this, we rely on price differentials observed by JOHNSON ECONOMICS in detailed analyses of master plan projects with multiple housing forms. We generally observe discounts of 5-15% for suburban townhomes relative to detached homes of similar size and features. The discount depends on the lot size and width of the homes.

For the detached homes at Baker Creek West, we apply a 7% discount, due to the relatively small lots and narrow homes. At Hillcrest, which has much larger lots and wider homes, we apply a 20% discount in order to also account for its single-story homes and relatively upscale features, which exceed our mid-market assumptions for the NAC.

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The following chart displays our estimates of achievable townhome pricing in today's market in the NAC, alongside the current values at the comparables – including the adjusted detached-home values. We assume pricing above the three townhome projects, due to their age (built 2004-09), but in line with the values adjusted to reflect townhome pricing at Baker Creek West and Hillcrest.





SOURCE: RMLS, Yamhill County, JOHNSON ECONOMICS

With two- and three-bedroom townhomes ranging in size from 1,400 to 1,800 square feet, the analysis indicates achievable pricing ranging from around \$360,000 to \$440,000, or \$243-258 PSF. With the following mix, which is estimated to represent a two-year absorption period (see next page), this translates into an average home price of around \$400,000 per home and \$250 PSF. This is likely adequate for suburban townhomes with a mid-market profile.

2-STORY TH.		UNI	ΤΜΙΧ		PRICI	NG
Туре	Units (#)	Units (%)	Home Size	Lot Size	Per Home	Per SF
2B/2.5b	10	33%	1,400	2,000	\$361,400	\$258
3B/2.5b	10	33%	1,600	2,500	\$400,400	\$250
3B/2.5b	10	33%	1,800	3,000	\$436,600	\$243
Total	30	100%	1,600	2,500	\$399,467	\$250

SOURCE: JOHNSON ECONOMICS



ABSORPTION

As discussed in the section on rental housing, the most recent Housing Needs Analysis for McMinnville includes a projected need for 27 attached single-family homes annually, which we assume will be split 50/50 between rentals and ownership. Thus, we assume a city-wide absorption potential of roughly 15 for-sale townhomes and duplexes per year. Given the very limited supply of new attached homes in McMinnville in recent years, we would assume that the NAC can capture all of this demand, absorbing around 15 townhomes annually.



V. COMMERCIAL SPACE

MARKET TRENDS

The retail market in McMinnville has seen limited development activity in recent years. According to CoStar, 2006 was the last year with a significant amount of new space delivered, when 81,000 square feet were completed. Over the past 10 years, only 34,000 square feet have been completed, reflecting limited demand due to increasing online competition. However, 87,000 square feet have been absorbed on a net basis over this period, suggesting stronger demand than reflected in the development activity. This has eaten into the inventory of vacant space in the city.

The net absorption has been uneven in recent years, with declines in 2019 and 2020 followed by gains in 2021 and 2022. Roughly 20,000 square feet were absorbed on a net basis in each of the last two years, above the annual average of 8,700 square feet over the past 10 years.

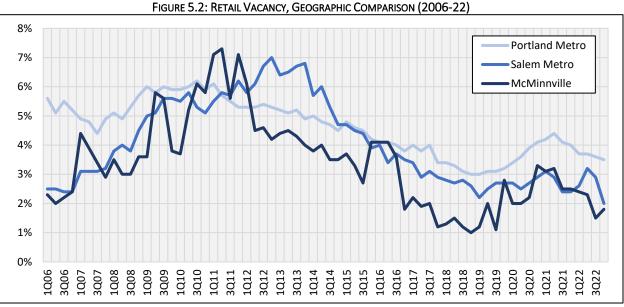


FIGURE 5.1: RETAIL DELIVERIES AND NET ABSORPTION (2006-22)

SOURCE: CoStar, JOHNSON ECONOMICS

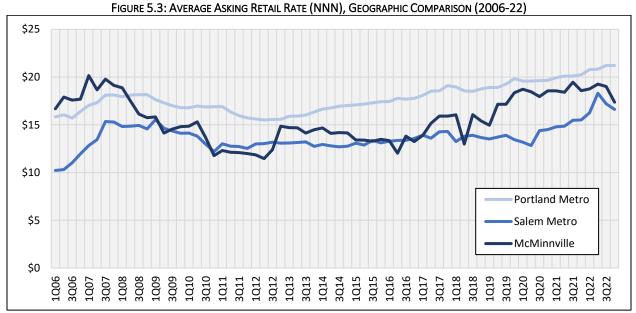
The small size of the McMinnville market leads to wide fluctuations in the vacancy rate when spaces are vacated or become occupied. However, the city has generally exhibited low vacancy over the past decade – lower than in the Portland Metro and Salem Metro markets (see chart next page). The rate peaked at 7.3% in 2011, and thereafter fell to 1.0% in early 2019. This is unusually low. The rate rose again early in COVID, but has since fallen back to 1.8% as of year-end 2022. This is on par with the Salem Metro vacancy rate, but well below the Portland Metro rate. The low vacancy rate indicates potential for additional supply.





SOURCE: CoStar, JOHNSON ECONOMICS

Average lease rates reported by CoStar will reflect the space available for lease at any given time. In McMinnville, the average rate has generally exceeded the average in the Salem Metro Area, but been lower than in the Portland Metro Area. The McMinnville average trended higher at a relatively rapid pace during the second half of the last decade, and thereafter saw more moderate gains over the 2020-22 period, before falling to \$17.36 at year-end 2022. This recent decline may be a function of short-term fluctuations rather than underlying market softness. If we follow the trendline, the market has averaged 5.9% annual rent growth over the past five years. If we use the actual quarterly averages, the annual rent growth was 1.6%. The average of the two (3.8%) is identical to general inflation over this period. In comparison, Portland Metro averaged 2.1% annual rent growth while Salem Metro averaged 3.1% annually over this period.



SOURCE: CoStar, JOHNSON ECONOMICS

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SURVEY OF COMPARABLES

COMPARABLES

Recent commercial projects in McMinnville are few in number and generally located along Highway 99 or in Downtown, both of which represent stronger environments for commercial uses than the subject site. In our survey of comparables, we have therefore focused on suburban retail properties with a neighborhood orientation. We have included two such properties near the subject site on NW Hill Road in McMinnville. These were built in 1990 and 2009.

In order to provide reference points from newer projects, we have included four newer properties from other parts of the Portland-Salem region that represent locations somewhat similar to the subject site. However, it should be mentioned that there are few examples of recent commercial developments along roads with traffic volumes comparable to the subject site (3,200 AADT in 2021). The four properties included from outside McMinnville have daily traffic volumes ranging from 10,000 to 20,000, and are located in Salem, Beaverton, and Felida (unincorporated Clark County, Washington). Maps from each of these areas are included over the next pages, followed by profiles of the retail properties.

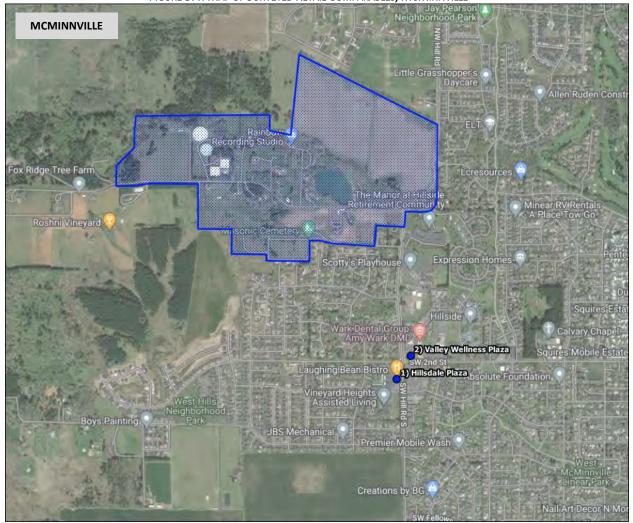


FIGURE 5.4: MAP OF SURVEYED RETAIL COMPARABLES, MCMINNVILLE

SOURCE: Google Earth, JOHNSON ECONOMICS



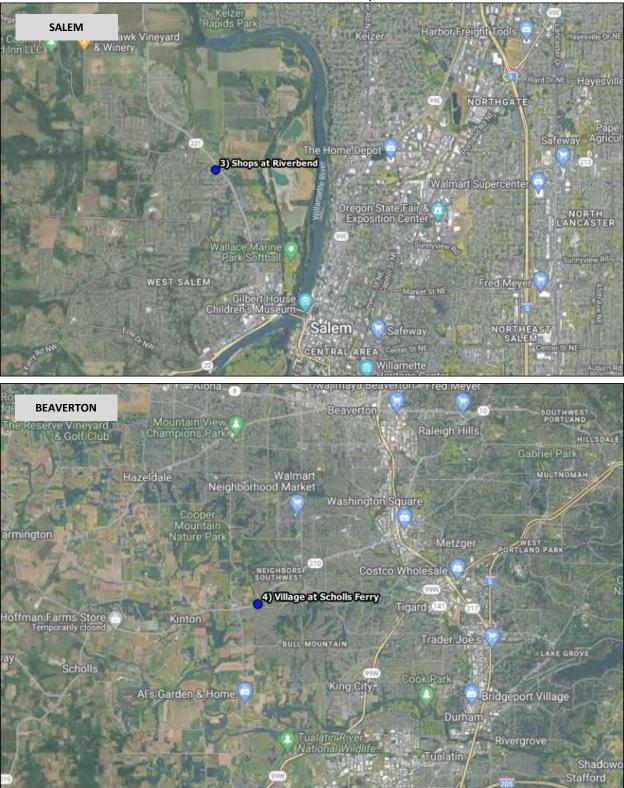


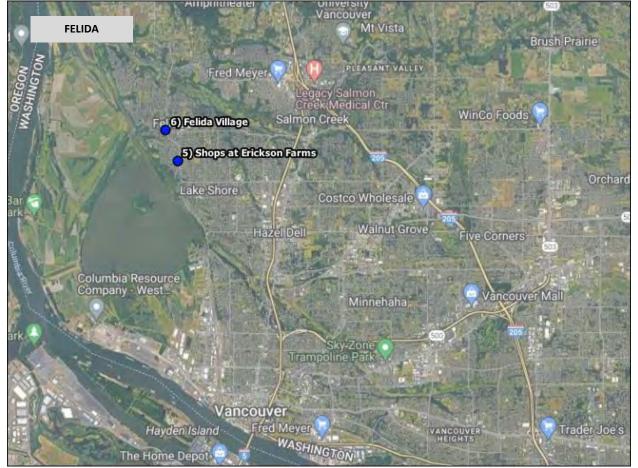
FIGURE 5.5: MAP OF SURVEYED RETAIL COMPARABLES, SALEM AND BEAVERTON

SOURCE: Google Earth, JOHNSON ECONOMICS

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FIGURE 5.6: MAP OF SURVEYED RETAIL COMPARABLES, FELIDA (CLARK COUNTY, WA)



SOURCE: Google Earth, JOHNSON ECONOMICS

Type:

Year built:

Total RBA SF:

Parking/1,000 SF:

Street frontage 1:

Street frontage 2: Street 1 AADT:

Street 2 AADT:

Available SF:

Available %: Lease type:

FIGURE 5.7: PROFILES OF SURVEYED RETAIL COMPARABLES





2) VALLEY WELLNESS PLAZA 2191 NW 2nd St, McMinnville, OR

Type:	Medical Office
Yearbuilt:	1990
Total RBA SF:	13,900
Parking/1,000 SF:	7.5
Street frontage 1:	SW 2nd St
Street frontage 2:	SW Hill Rd
Street 1 AADT:	8,200
Street 2 AADT:	3,200
Available SF:	981
Available %:	7%
Lease type:	FS
Asking lease rate:	\$27.36
Current equiv. rate*:	\$27.36

Notes: Tenants: Ability Physical Therapy, McMinneville Family Eye Care, Columbia Allergy, Providence Heart Clinic.

3) SHOPS AT RIVERBEND 1221 Riverbend Rd, Salem, OR

Type: Year built:

Total RBA SF:

Parking/1,000 SF:

Street frontage 1:

Street frontage 2:

Asking lease rate:

Current equiv. rate*:

Street 1 AADT:

Street 2 AADT:

Available SF:

Available %: Lease type:

leased).

Strip mall

Wallace Rd NW

Riverbend Rd

2022

7.3

10,780

19,600

1,000

1,296 12%

NNN

\$25.00

\$25.00









4) VILLAGE AT SCHOLLS FERRY 16315 SW Barrows Rd, Beaverton, OR

Notes: Strip mall with four 1,300-SF spaces and food cart pod with dining pavilion and spaces for 15 carts (all

10010 011 04110100	
Type: Yearbuilt: Total RBA SF: Parking/1,000 SF:	Neighborhood Ctr 2008 53,126 2.2
Street frontage 1: Street frontage 2: Street 1 AADT: Street 2 AADT:	SW Scholls Ferry Rd SW Barrows Rd 18,300 6,377
Available SF: Available %: Lease type: Asking lease rate: Current equiv. rate*:	7,335 14% NNN \$28.00 \$28.00
Notes: 3 bldgs (one 2- Adjacent Dutch Bros. 1	

Adjacent Dutch Bros. Tenants : Hillside Pub, Casa Lola Kitchen, Biscuits Café, Edward Jones, Inspired Life, Twist Spa ++



5) ERICKSON FARMS

10722 NW Lakeshore Ave, Vancouver, WA

Street frontage 1:NW Lakeshore AveStreet frontage 2:NW 106th StStreet 1 AADT:9,923	Nuilt: RBA SF: Ig/1,000 SF:
Street 2 AADT:	frontage 2: 1 AADT:
Available SF: 0 Available %: 0% Lease type: NNN Asking lease rate: \$23.50 Current equiv. rate*: \$23.50	ble %: type: g lease rate: nt equiv. rate*:

Notes: Tenants: Los Potrillos, Mahoney Public House, Arktana, Creed Coffee, Nail Kitchen Spa, Windermere, Lakeshore Learning Center, Grapes & Growlers.

6) FELIDA 3600-04 NW 119th	
Type: Neig	hborhood mixed-use
Yearbuilt:	2016
Total RBA SF:	10,600
Parking/1,000 SF:	3.8
Street frontage 1:	NW 36th Ave
Street frontage 2:	NW 119th St
Street 1 AADT:	11,100
Street 2 AADT:	4,500
Available SF:	0
Available %:	0%
Lease type:	NNN
Negotiated lease rat	e: \$24.70
Current equiv. rate*:	\$24.70
Notes: Retail with off above. Office leased retail at \$24 in 2020. VX Vinos, Studio V, Ba	at \$20 in late 2021; Mt. Tabor Brewing,

SOURCE: JOHNSON ECONOMICS

KEY OBSERVATIONS

The two comparables from McMinnville are located at the intersection of NW 2nd Street and SW Hill Road, as part of a commercial cluster at this intersection. The traffic volume at this intersection is in the low end of what can support new commercial development in today's market. Estimates from ODOT (2021) indicate 8,200 daily trips on 2nd Street and 3,200 on Hill Road. The retail building at the southwest corner – Hillsdale Plaza, built in 2009 – most recently advertised an annual asking rate of \$18.00 modified gross per square foot (PSF) in late 2022. This likely represents a triple-net (NNN) rate below \$16.00 PSF, which is well below the typical threshold for supporting new construction. However, the building has a basic profile without strong tenant visibility or signage potential due to its gabled roof and low ceiling height. A modern retail building would likely capture higher rents.

The medical office building at the northeast corner of the 2^{nd} /Hill intersection – Yamhill Valley Wellness Plaza – is older (1990) but built to a higher standard. It currently has a small suite available at a \$27.36 full-service asking rate. Converted to triple-net terms, this may reflect a rate in the low \$20s. Again, more modern space would likely capture somewhat higher rates.





To our knowledge, the best example of a recent commercial development with a neighborhood orientation on a site with similar traffic exposure is the Shops at Erickson Farms in Felida, north of Vancouver, Washington. Felida is one of the most affluent suburban areas in Clark County. The project sits along Lakeshore Avenue, centrally within a large residential area that was without commercial amenities prior to its opening in 2017. The nearest commercial options are in the I-5 corridor, two-three miles to the east. In comparison, Hill Road is roughly two miles from Highway 99. The current daily traffic volume on Lakeshore Avenue is 9,900, which means that the project has one of the lowest traffic volumes among newer retail centers in the suburban parts of the Portland-Salem area. The relatively low lease rates, \$23.50, are reflective of the limited traffic exposure. The rates have remained at this level since opening. The property totals 34,000 square feet (fully leased), including office/daycare buildings. Most tenants are food/beverage and service establishments. Felida's relatively affluent household base has contributed to the support for the project.

Felida Village is a mixed-use project located along the same road, with slightly higher traffic volumes (11,100 AADT). It was built in 2016 and includes 10,600 square feet of commercial space (mostly ground-floor retail) plus eight apartments on the second floor. While most mixed-use projects are built in more urban areas, near transit centers, or along roads with more pedestrian/bike traffic, this project is a unique example of a mixed-use project along a suburban arterial road with moderate traffic. Current lease rates average \$24.70 NNN for ground-floor space and \$19.25 for second-floor office space. Tenants include a brewpub and service providers. As with Erickson Farms, the relatively affluent household base in Felida and the distance to larger commercial centers have helped the project.

The Village at Scholls Ferry in Beaverton is a larger project, totaling 53,000 square feet. It also has a neighborhood orientation, but benefits from higher traffic exposure (18,000 AADT). However, at the time it was built in 2008, it was at the western periphery of Beaverton, with farmland to the west. Traffic volumes on Scholls Ferry Road were likely much lower than today. It leased up at rates in the \$26-32 range. The current asking rate is \$28.00, with 7,000 square feet vacant. Tenants are mainly food/beverage and service providers.

The Shops at Riverbend is a smaller project with one retail building (5,200 SF) for four smaller tenants plus a food cart pod and a dining pavilion. It is located along Wallace Road in West Salem, with average daily traffic of roughly 20,000. The asking rate for the retail space is \$25.00 NNN, with only one space left. Current tenants include a nail salon and flower shop, plus the food carts.

		TRAFFIC	YEAR		TOTAL	AVAIL.	LEASE	RATE
PROPERTY	ADDRESS	AADT	BUILT	FLOORS	RETAIL SF	(%)	\$	TYPE
1) Hillsdale Plaza	2274 SW 2nd St, McMinnville, OR	8,200	2009	1	5,000	0%	\$18.00	MG
2) Valley Wellness Center	2191 NW 2nd St, McMinnville, OR	8,200	1990	1	13,900	7%	\$27.36	FS
3) Shops at Riverbend	1221 Riverbend Rd, Salem, OR	13,300	2021+	1	46,100	0%	\$25.00	NNN
4) Village at Scholls Ferry	16315 SW Barrows Rd, Beaverton, OR	18,300	2008	2	53,126	14%	\$28.00	NNN
5) Shops at Erickson Farms	10722 NW Lakeshore Ave, Vancouver, WA	9,900	2017-19) 1	34,376	0%	\$23.50	NNN
6) Felida Village	3600-04 NW 119th St, Vancouver, WA	11,100	2016	1	10,600	0%	\$24.70	NNN

FIGURE 5.8: SUMMARY OF SURVEYED RETAIL PROPERTIES

SOURCE: Brokers; developers; online media; CoStar; JOHNSON ECONOMICS

HOUSEHOLD SUPPORT

Support for commercial establishments in the Neighborhood Activity Center (NAC) will come from the surrounding household base, both within and outside the Fox Ridge area. In order to evaluate this support, we estimate the sales generated by the surrounding households, today and in the future. We also evaluate current and future traffic flows past the site, before we in the next section estimate the amount of commercial space that is feasible within the NAC.

NEIGHBORHOOD TRADE AREA

The first step in this analysis is to delineate the geographic area from which the NAC is likely to capture household spending. For this determination, we assume that each household in the surrounding area will use the nearest



commercial center, as measured in drive time (Google Maps). Though households in reality conduct their shopping at multiple locations, we assume that the nearest commercial center has the advantage in capturing shopping traffic from the household if the type of retail or service is provided at this location. The delineated trade area for the NAC represents the drive-time mid-points between the NAC and other commercial centers. And though households within this trade area will do much of their shopping outside this area, establishments within the NAC will also attract customers from outside the area. We assume that the trade area boundary represents the points where these in- and outflows of demand offset each other. We refer to this trade area as the Core Trade Area (CTA).

In the delineation of the CTA, we take into account both existing and planned commercial centers. The existing commercial cluster around 2nd Street and Hill Road limits the trade area to the south, while the planned commercial center on Baker Creek Road and Hill Road limits the trade area to the north. The nearest alternatives to the east are in the Highway 99 corridor. For each center or commercial area, we use the nearest main intersection when estimating drive times (Wallace Rd/Hill Rd for the NAC). The resulting trade area delineation for the NAC is shown below.



FIGURE 5.9: NAC COMMERCIAL CORE TRADE AREA (CTA)

SOURCE: Google Earth, Metro, Johnson Economics



SUPPORT FOR COMMERCIAL ACTIVITIES

A geographic analysis of assessor data indicates that there are 915 housing units within the CTA currently. In the following, we present estimates of supported employment and spending in retail and service categories that typically take place in commercial buildings, based on averages from suburban and rural parts of Oregon and Washington states. We also provide estimates for future support, assuming the increase of 567 housing units in the Fox Ridge area. This assumption is based on the preceding residential analysis and includes 150 rental apartments, 30 townhomes, and 387 detached single-family homes (80 acres with 9,000-square-foot lots). At that point, the housing inventory in the CTA will have grown to almost 1,500.

Employment and sales estimates are converted to square footage based on typical/average ratios observed in various surveys and studies conducted by Johnson Economics. These include employment density surveys, surveys published in trade publications, and analyses of financial reports from retailers. Per-square-foot spending estimates are updated annually to account for inflation. Note that there is significant variation in space utilization between different types of establishments within each category.

The estimates of current and future commercial support are presented over the next two pages. Categories in grey font are retail/service formats that would either be inconsistent with the type of neighborhood center envisioned in the NAC or that require a mall or downtown location in the current retail market.

In most categories, the support estimated to be generated by the households within the CTA represents less than one average-size establishment. Based on the current household count, only two categories exhibit support for at least one establishment: full- and limited-service restaurants. Each is estimated to have support for roughly two establishments. This means that restaurant spending by the households currently living in the CTA should total the average sales of around four restaurants. However, it does not mean that there is market support for four restaurants in the NAC currently. Neighborhood centers can only capture a portion of the restaurant spending by surrounding households, as some restaurant spending takes place in conjunction with shopping at larger centers or as part of travel or destination visits to downtown restaurants. A qualitive evaluation is required to estimate the amount of household spending that can be captured in the NAC. The same is true for the other categories as well. Based on the current-year sales estimates, we believe there is inadequate support for new construction commercial space in the NAC currently.

In the estimates of future support, the model indicates that five additional categories will have CTA support equivalent to at least one average-size establishment. These are all service categories, representing medical, professional, and personal service providers. These indicate potential for a small commercial center in the NAC. In the following, we will evaluate which of these are likely to capture adequate demand with a NAC location.



CURRENT COMMERCIAL POT	MARKET SUPPORT						
		Establish-	Employ-	An. Sales	Square		
Category	Major Category	ments	ment	(\$1,000)	Feet		
Physician/clinic	Health services	1.0	18	\$3,127	12,387		
Grocery	Everyday goods	0.3	19	\$6,584	11,351		
Hardware/materials/garden	Home/garden	0.4	7	\$2,057	10,203		
FS restaurant	Eating/drinking places	2.0	37	\$2,468	5,494		
Fitness	Fitness/dance/martial arts	0.4	7	\$387	5,241		
LS restaurant	Eating/drinking places	1.8	30	\$2,241	4,021		
Bank	Bank	0.4	8	\$1,095	2,208		
Chiropractor/physical therapy	Health services	0.8	6	\$609	2,082		
Dentist	Health services	0.9	7	\$1,103	1,987		
Pet supplies	Hobby/leisure/pets	0.1	1	\$255	1,706		
Hair/nail/spa	Personal care	0.8	4	\$233	1,492		
Used goods	Used goods	0.2	4	\$342	1,466		
Insurance	Financial/legal/insurance	0.7	5	\$835	1,234		
Bar/pub	Eating/drinking places	0.3	3	\$277	980		
Convenience	Everyday goods	0.4	2	\$677	966		
Pet care/grooming	Personal care	0.2	1	\$56	953		
Coffee/juice/ice cream	Eating/drinking places	0.6	7	\$442	753		
Wireless	Wireless	0.4	6	\$2,438	705		
Gas station	Gas station	0.4	4	\$3,873	699		
Specialty foods/drinks	Everyday goods	0.4	3	\$534	670		
Vet/animal clinic	Health services	0.3	4	\$573	662		
Attorney	Financial/legal/insurance	0.3	2	\$481	579		
Optic/vision	Health services	0.2	1	\$153	550		
Martial arts	Fitness/dance/martial arts	0.1	1	\$81	442		
Brewery/winery/distillery	Eating/drinking places	0.1	1	\$50 ¢202	414		
CPA Martagaa (titla	Financial/legal/insurance	0.3	2	\$202	389		
Mortgage/title Tanning	Financial/legal/insurance Personal care	0.2	1	\$491 \$61	344 300		
Delivery/mailbox	Other service	0.1	1	\$124	287		
Financial advisor/broker	Financial/legal/insurance	0.1	2	\$448	287		
Drycleaning/laundry/alterations	Other service	0.3	1	\$107	195		
Dance/aerobic/yoga/music	Fitness/dance/martial arts	0.2	1	\$49	195		
Flowers	Home/garden	0.1	0	\$34	155		
Health/supplements	Everyday goods	0.1	0	\$64	98		
Supercenter/warehouse club	Everyday goods	0.1	16	\$7,472	8,181		
Discount department store	Everyday goods	0.1	5	\$1,041	7,627		
Furniture/home goods	Home/garden	0.3	3	\$903	6,683		
Auto service/carwash	Auto service/care	0.8	6	\$961	3,738		
Sporting goods	Hobby/leisure/pets	0.2	2	\$372	3,714		
Pharmacy	Everyday goods	0.2	3	\$1,162	2,902		
Auto parts	Auto parts	0.4	4	\$1,068	2,571		
Motor vehicle dealer	Motor vehicle dealer	0.3	9	\$7,636	2,399		
Hobby/games/toys	Hobby/leisure/pets	0.2	2	\$204	1,710		
Discount store	Everyday goods	0.1	2	\$206	1,622		
Movie theater	Entertainment	0.0	1	\$132	1,198		
Clothing	Clothing/accessories/cosmetics	0.2	3	\$456	1,006		
Office supplies	Office/electronics/appliances	0.0	1	\$138	871		
Department store	Clothing/accessories/cosmetics	0.0	1	\$34	844		
Discount clothing/home store	Clothing/accessories/cosmetics	0.0	1	\$363	835		
Electronics/appliances	Office/electronics/appliances	0.0	0	\$191	797		
Real estate agent	Financial/legal/insurance	0.3	1	\$692	408		
Shoes	Clothing/accessories/cosmetics	0.1	1	\$191	389		
Music	Hobby/leisure/pets	0.0	0	\$63	276		
Gifts	Hobby/leisure/pets	0.1	1	\$93	275		
Other	Other service	0.2	1	\$86	258		
Cosmetics	Clothing/accessories/cosmetics	0.0	1	\$88	172		
Books	Hobby/leisure/pets	0.0	0	\$65	153		
Photography	Other service	0.0	0	\$19	132		
lewelry	Clothing/accessories/cosmetics	0.1	0	\$111	115		
Travel	Other service	0.1	0	\$38	111		
Printing	Other service	0.0	1	\$85	107		
Other entertainment	Entertainment	0.0	0	\$10	30		
Payday Loans	Financial/legal/insurance	0.0	0	\$69	18		
- / /							

FIGURE 5.10: CURRENT SUPPORT FOR COMMERCIAL ACTIVITIES, NAC CTA (2023)

SOURCE: U.S. Commerce Department, U.S. Census Bureau, U.S. BLS, JOHNSON ECONOMICS



FIGURE 5.11: FUTURE SUPPORT FOR COMMERCIAL ACTIVITIES, NAC CTA (+567 HOUSEHOLDS)

FUTURE COMMERCIAL POTE	MARKET SUPPORT					
		Establish-	Employ-	Sales	Square	
Category	Major Category	ments	ment	(\$1,000)	Feet	
Physician/clinic	Health services	1.6	30	\$5,084	20,138	
Grocery	Everyday goods	0.5	31	\$10,704	18,455	
Hardware/materials/garden	Home/garden	0.6	11	\$3,345	16,588	
FS restaurant	Eating/drinking places	3.2	60	\$4,013	8,933	
Fitness	Fitness/dance/martial arts	0.6	12	\$629	8,521	
LS restaurant	Eating/drinking places	3.0	49	\$3,644	6,537	
Bank	Bank	0.7	13	\$1,780	3,590	
Chiropractor/physical therapy	Health services	1.4	10	\$991	3,386	
Dentist	Health services	1.5	12	\$1,793	3,231	
Pet supplies	Hobby/leisure/pets	0.2	2	\$415	2,774	
Hair/nail/spa	Personal care	1.3	6	\$379	2,425	
Used goods	Used goods	0.3	7	\$556	2,383	
nsurance	Financial/legal/insurance	1.1	9	\$1,357	2,007	
Bar/pub	Eating/drinking places	0.5	5	\$450	1,593	
Convenience	Everyday goods	0.7	4	\$1,100	1,570	
Pet care/grooming	Personal care	0.3	2	\$91	1,549	
Coffee/juice/ice cream	Eating/drinking places	1.0	11	\$719	1,224	
Wireless	Wireless	0.6	10	\$3,964	1,146	
Gas station	Gas station	0.6	7	\$6,296	1,136	
Specialty foods/drinks	Everyday goods	0.7	6	\$868	1,089	
Vet/animal clinic	Health services	0.5	7	\$931	1,076	
Attorney	Financial/legal/insurance	0.5	3	\$782	942	
Optic/vision	Health services	0.3	2	\$248	895	
Martial arts	Fitness/dance/martial arts	0.2	2	\$132	719	
Brewery/winery/distillery	Eating/drinking places	0.1	1	\$81	673	
CPA	Financial/legal/insurance	0.5	4	\$329	632	
Mortgage/title	Financial/legal/insurance	0.3	3	\$798	560	
Tanning	Personal care	0.2	2	\$99	487	
Financial advisor/broker	Financial/legal/insurance	0.5	3	\$728	459	
Drycleaning/laundry/alterations	Other service	0.3	1	\$173	317	
Dance/aerobic/yoga/music	Fitness/dance/martial arts	0.2	2	\$80	301	
Flowers	Home/garden	0.1	0	\$55	254	
Health/supplements	Everyday goods	0.1	1	\$104	159	
Delivery/mailbox	Other service	0.0	1	\$201	82	
Supercenter/warehouse club	Everyday goods	0.1	27	\$12,148	13,301	
Discount department store	Everyday goods	0.1	7	\$1,693	12,401	
Furniture/home goods	Home/garden	0.5	5	\$1,469	10,865	
Auto service/carwash	Auto service/care	1.3	9	\$1,562	6,077	
Sporting goods	Hobby/leisure/pets	0.3	3	\$605	6,038	
Pharmacy	Everyday goods	0.3	5	\$1,889	4,718	
Auto parts	Auto parts	0.7	7	\$1,736	4,180	
Motor vehicle dealer	Motor vehicle dealer	0.5	15	\$12,415	3,900	
Hobby/games/toys	Hobby/leisure/pets	0.3	3	\$332	2,781	
Discount store	Everyday goods	0.2	3	\$335	2,637	
Novie theater	Entertainment	0.0	1	\$214	1,947	
Clothing Office supplies	Clothing/accessories/cosmetics	0.3	5	\$741	1,635	
Office supplies	Office/electronics/appliances	0.1	1	\$224	1,416	
Department store	Clothing/accessories/cosmetics	0.0	1	\$55	1,371	
Discount clothing/home store	Clothing/accessories/cosmetics	0.0	2	\$591	1,357	
Electronics/appliances	Office/electronics/appliances	0.1	1	\$311	1,295	
Real estate agent	Financial/legal/insurance	0.5	2	\$1,124	663	
Shoes	Clothing/accessories/cosmetics	0.1		\$311	633	
Music	Hobby/leisure/pets	0.1	1	\$102	449	
Gifts	Hobby/leisure/pets	0.2	1	\$151	448	
Other	Other service	0.3	2	\$140	419	
Cosmetics	Clothing/accessories/cosmetics	0.1	1	\$143	280	
Books	Hobby/leisure/pets	0.0	1	\$105	249	
Photography	Other service	0.1	0	\$31	214	
ewelry France	Clothing/accessories/cosmetics	0.1	1	\$181	186	
Fravel	Other service	0.1	1	\$61	180	
Printing	Other service	0.1	1	\$138	174	
Other entertainment	Entertainment	0.0	0	\$16	48	
Payday Loans	Financial/legal/insurance	0.0	0	\$113	30	
Total		31	435	\$91,857	195,724	

SOURCE: U.S. Commerce Department, U.S. Census Bureau, U.S. BLS, JOHNSON ECONOMICS



TRAFFIC VOLUMES

Traffic flows also have some bearing on the ability of a site to capture commercial demand. We therefore include a brief analysis of current and future traffic flows past the site. Based on our surveys of retail centers built over the past 10 years, we find that most auto-oriented suburban centers require daily traffic volumes of 10,000-15,000 before sales levels can sustain lease rates that can support the cost of new construction. However, projects that function as neighborhood or village centers in underserved residential areas or with good pedestrian access can find adequate support at lower traffic levels (e.g., Forest Heights Village, Portland; Crescent Village, Eugene; Avimor, Boise; Issaquah Highlands, Issaquah).

The most recent traffic counts on Hill Road are from just south of SW Tamarack Road, where the 2021 ODOT count was 3,200 AADT. The closest recent count on Wallace Road was 2,800 AADT just west of Cypress Road, also from 2021. We will assume that these counts reflect the current traffic level at the Hill/Wallace intersection. These traffic counts would in most cases be inadequate for auto-oriented commercial users.

Development of the Fox Ridge area will generate additional traffic past the site. Trip generation varies with housing format. Based on the preceding residential analysis, we will assume that the Neighborhood Activity Center (NAC) will include 150 multifamily units and 30 attached single-family units (15 rental; 15 ownership). Based on typical trip generation rates, these will increase the traffic volume by around 1,250 daily trips. For the remaining residential portion of the Fox Ridge area, we will assume that 80 acres will be developed over a 10-year period, creating 387 detached units (9,000-SF lots). These will generate an estimated 3,700 trips. Not taking into account other development in the city, the daily trip count on Hill Road should then be around 8,000. A new high school within the Fox Ridge area would add to this count. Other development on the westside will further increase the traffic volume.

FIGURE 5.12: EST	TIMATED D	AILY TRIPS	PAST THE	SUBJECT SI	re, Generate	D BY FUT	JRE HOUSI	NG
	HOUSING UNITS				TRIPS			
-	SFD	SFA	MF	Total	SFD	SFA	MF	Total
					9.5/u.	8.1/u.	6.7/u.	
Existing								3,200
Fox Ridge NAC	0	30	150	180	0	243	1,005	1,248
Fox Ridge Low-Density	387	0	0	387	3,678	0	0	3,678
Total	387	30	150	567	3,678	243	1,005	8,126

SOURCE: Institute of Traffic Engineers, City of McMinnville, JOHNSON ECONOMICS

As mentioned, the current traffic volume on Hill Road would in most cases be inadequate to support auto-oriented commercial activity. However, a daily traffic volume around 8,000, plus additional high-school traffic, is likely adequate for a small neighborhood center that can rely on pedestrian/resident traffic as well as pass-by arterial traffic. Tenants are most likely to be independent establishments or local chain. National chains typically seek locations with higher traffic volumes.

ABSORPTION

As indicated, the NAC will only be able to capture a portion of the commercial demand generated within the CTA. Residents in this area will continue to visit major shopping centers outside the CTA, and they will continue to combine shopping with other activities outside the CTA. However, with anticipated household count and traffic volumes, we regard it likely that some establishments will find adequate support in the NAC. Food/beverage and service providers are the most likely tenants. We expect 5,000-10,000 square feet to be feasible, assuming a location by the Hill/Wallace intersection with good access from Hill Road as well as residential portions of Fox Ridge. We would plan for spaces in the range of 1,000-3,000 square feet (see next page), with a strip mall the most likely format.



We also expect potential for a daycare in a separate building within the NAC, given the increase in number of families in this area as Fox Ridge is built out. In total, this indicates potential for a commercial area of roughly 1.0 acre. We would assume that at least 400 residential units will have to be completed within the Fox Ridge area before a commercial center of this size becomes feasible.

ц		CATECODY	60 FT	FAD	ACDEC	DATELOW	DATE
#	MAJOR CATEGORY	CATEGORY	SQ.FT.	FAR	ACRES	RATE LOW	RATE HIGH
1	Eating/drinking places	Restaurant	2,800	0.25	0.3	\$25.00	\$27.00
2	Eating/drinking places	Restaurant/coffee	1,500	0.25	0.1	\$25.00	\$27.00
3	Personal care	Hair/nail/spa salon	1,500	0.25	0.1	\$24.00	\$26.00
4	Health/medical services	Physician/chiropractor	1,500	0.35	0.1	\$24.00	\$26.00
5	Professional/financial services	Real estate/insurance	1,000	0.35	0.1	\$24.00	\$26.00
6	Education	Daycare/preschool	4,000	0.30	0.3	\$22.00	\$24.00
Total:	:		12,300		1.0	\$22.00	\$27.00

FIGURE 5.13: POTENTIAL TENANTS AND ACHIEVABLE PRICING (1Q23)*, SUBJECT SITE

* Achievable lease rates are annual NNN rates per square foot.

SOURCE: JOHNSON ECONOMICS

Additionally, there may also be potential for a gas station with a convenience store within the NAC. Though the CTA households alone may provide inadequate support, the lack of a gas station west of Highway 99 suggests potential for a gas/convenience option along Hill Road. This may absorb another acre of land. We are aware of other neighborhood gas/convenience projects currently in development on sites with traffic volumes comparable to the estimated future traffic count on Hill Road (e.g., Camas Station at the northwest corner of NW 16th Avenue and Brady Road in Camas, 7,600 + 6,100 AADT).

ACHIEVABLE PRICING

The above estimates of absorption potential include the inherent assumption of ability to pay lease rates that can justify new construction. However, based on our survey of comparables and our estimates of market support, we would expect the achievable lease rates to be in the low end of what can support new construction, requiring cost-effective design and building formats. Based on current market rates, we would assume rates in the \$24-27 range for ground-floor commercial space (NNN), with somewhat lower rates for a daycare building, as shown in the table above. These rates can be expected to increase with the market prior to market introduction.



VI. CONCLUSIONS

FEASIBLE USES

The preceding analysis indicates adequate market support for rental apartments, rental townhomes, ownership townhomes, and commercial space in the Fox Ridge Neighborhood Activity Center (NAC). In the current market, we would expect a single-phase 200-unit apartment project to be feasible with a 12-month absorption horizon, given the current apartment shortage and limited development pipeline in McMinnville. For a more long-term assumption, we regard a 150-unit apartment project plus 15 rental townhomes and 15 ownership townhomes to be feasible within a one-year absorption period. We expect a project of this scale to require roughly eight acres of land.

Following additional residential buildout of the Fox Ridge area, we expect a small commercial center of 5,000-10,000 square feet, plus a separate daycare center, to be feasible within the NAC. We expect these uses to absorb around one acre of land. A gas station with a convenience store may also become feasible, absorbing another acre or so.

In total, this indicates potential for a Neighborhood Activity Center that spans 9-10 acres. With a multi-phase approach to the residential components, with absorption over a three- to four-year period, we would expect that the scale of the residential development could be doubled, increasing the size of the NAC to 17-18 acres.

FEASIBLE USES			Res. Density	Com.	Land Need
LAND USE	Scale	Unit	(U/Ac)	FAR	(Acres)
Rental apartments	150	Units	28		5.4
Rental townhomes	15	Units	14		1.1
Ownership townhomes	15	Units	10		1.5
Retail space	8,300	SF		0.27	0.7
Daycare center	4,000	SF		0.30	0.3
Gas station w/conv. store	5,000	SF		0.15	0.8
Total					8.9 (9.7)

FIGURE 6.1: POTENTIAL LAND ABSORPTION

SOURCE: JOHNSON ECONOMICS

FEASIBLE BUILDING FORMATS

RENTAL APARTMENTS

Current market rents indicate that rental apartments within the NAC are most likely to be three-story walk-up structures with surface parking. Higher rent levels would likely be needed to support taller and more costly formats like elevator buildings and tuck-under or podium parking.





RENTAL TOWNHOMES

We expect rental townhomes both with and without attached garages to be feasible in the NAC, most likely two stories tall. The achievable rent estimates provided for rental townhomes earlier in the report assume surface parking. Attached garages would likely generate additional rent premiums (\$100-150/mo.).



OWNERSHIP TOWNHOMES

We also expect ownership townhomes to be feasible. These typically represent a somewhat higher standard in terms of design and finishes than rental townhomes, and typically include attached garages. Two-story homes are most common, but three-story structures might also be feasible.



COMMERCIAL SPACE

At the estimated achievable lease rates, a multi-tenant strip mall is the most likely commercial format in the NAC. Freestanding single-tenant buildings generally represent higher construction costs, but may be viable with costeffective features (e.g., gable roof, smaller windows). One possible exception is a gas/convenience project, which is likely to a standard gas station format. The most likely format for a daycare is a gable-roof, single-story structure.



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MIXED-USE POTENTIAL

Vertical mixed-use projects with residential units above ground-floor commercial space are best suited for urban locations with significant bike and pedestrian traffic. In locations where the commercial tenants are dependent on auto traffic, the mixed-use format can be difficult to combine with the needs for visibility, signage, and parking convenience. These buildings usually do not offer the kind of signage surround that makes a logo stand out, while the upper floors tend to distract from the signage, especially if they include balconies. Moreover, suburban commercial tenants generally need convenient parking in front of the stores in order to maximize the capture of auto traffic. They also need clearly separated residential and commercial parking. Certain uses, like restaurants, may also require additional accommodation (e.g., soundproofing, ventilation) in order to limit nuisance for residents. Due to the cost and rent impacts of these factors, we do not expect vertical mixed-use projects to be feasible in the NAC. However, as shown by Felida Village in the previous section, low-cost versions of this format may be possible, though Felida Village has been helped by a relatively affluent surrounding household base.

LOCATION OF USES

Commercial activity in the NAC will depend on good exposure to auto traffic, and will therefore need a location near one of the major Hill Road intersections, either at Wallace Road or Fox Ridge Road. Assuming future development of the high school site, the Wallace Road intersection will likely provide the strongest exposure, positioning the commercial component to capture demand from residents east of Hill Road in addition to Fox Ridge residents. This will require a site and road layout that provides easy access between Fox Ridge Road and the commercial center.

Both rental apartments and townhomes function well adjacent to commercial uses from a market standpoint. However, rental housing tends to benefit more from this proximity, as renters tend to value access higher than homeowners. The latter, who typically include a large share of families, tend to place greater emphasis on safety, and will often prefer separation from commercial traffic. We therefore recommend rental apartments closest to the commercial section.

APPENDIX F

FOX RIDGE ROAD AREA PLAN

TRANSPORTATION ANALYSIS: EXISTING AND FUTURE CONDITIONS

NOVEMBER 2023



PREPARED FOR THE CITY OF MCMINNVILLE



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	EFERRED LAND USE SCENARIO (2041) INTERSECTION OPERATIONS – WITH TS

This report documents the traffic analysis performed in association with the Fox Ridge Road Area Plan in McMinnville, Oregon. The purpose of this traffic analysis is to help identify and inform transportation issues that would need to be addressed in the City's Transportation System Plan update.

An executive summary of this transportation analysis is provided below. The following sections of this memorandum document the existing traffic conditions (2023), future baseline and preferred land use traffic conditions (2041), and a list of resulting transportation projects needed to support the build out of the Fox Ridge Road plan area.

EXECUTIVE SUMMARY

To determine existing and future transportation conditions for the Fox Ridge area, a comprehensive traffic analysis was performed. The analysis focused on five key intersections along NW Hill Road.

Fox Ridge Road Plan Area

The Fox Ridge Road Plan Area includes 200+ acres of land that currently contains rural, low density lands and publicly owned lands. The future development of the Plan Area primarily includes a mix of residential housing (low-, medium-, and high-density), parks and open spaces, some neighborhood mixed-use commercial, and 42 acres that are owned by the school district.¹

Analysis Findings & Recommended Improvement Projects

Intersection traffic operations were analyzed for the weekday AM and PM peak hours under the existing 2023 conditions and future 2041 conditions to evaluate if the study intersections meet the City's desired performance levels under the Preferred Land Use scenario.

Currently, the five study intersections all meet the City's performance standard.

In the Preferred Land Use 2041 scenario, all but two of the study intersections are expected to continue to meet standards and targets in the future. The suggested improvements are listed below.

- **NW Hill Road at Fox Ridge Road:** Install a single-lane roundabout or traffic signal. This project is not listed in the City's current TSP (2010).
- **NW Hill Road at 2nd Street:** Install a single-lane roundabout or traffic signal. This is consistent with the priority project identified in the City's current TSP (2010).

¹ The property owned by the school district is already located within the City limits and is planned to be developed into a high school.

EXISTING TRAFFIC CONDITIONS (2023)

Existing traffic conditions were evaluated for the study area and include traffic volumes; intersection operations; and bike, pedestrian, and transit needs.

EXISTING TRAFFIC VOLUMES

Traffic counts were collected for the AM peak period (7:00 to 9:00 a.m.) and PM peak period (4:00 to 6:00 p.m.) at the following study intersections.³ The AM and PM peak hour traffic volumes (i.e., the highest hourly volumes during the peak period) are shown in Figure 1 and the traffic counts are provided in the appendix.

- NW Hill Road & Baker Creek Road
- NW Hill Road & Wallace Road
- NW Hill Road & Fox Ridge Road

INTERSECTION PERFORMANCE MEASURES

Agency mobility standards often require intersections to meet level of service (LOS) or volume-tocapacity (v/c) intersection operation thresholds. Additional operational details are provided in the appendix.

- The intersection LOS is similar to a "report card" rating based upon average vehicle delay. Level of service A, B, and C indicate conditions where traffic moves without significant delays over periods of peak hour travel demand. Level of service D and E are progressively worse operating conditions. Level of service F represents conditions where average vehicle delay has become excessive and demand has exceeded capacity. This condition is typically evident in long queues and delays.
- The volume-to-capacity (v/c) ratio represents the level of saturation of the intersection or individual movement. It is determined by dividing the peak hour traffic volume by the maximum hourly capacity of an intersection or turn movement. When the V/C ratio approaches 0.95, operations become unstable and small disruptions can cause the traffic flow to break down, resulting in the formation of excessive queues.

The City of McMinnville requires all city intersections to meet the mobility standard, which is a v/c ratio of 0.90 or less.⁴

- NW Hill Road & 2nd Street
- NW Hill Road & Fellows Street

³ The counts were collected on June 1, 2023.

⁴ Table 2-2, McMinnville Transportation System Plan, 2010.

EXISTING INTERSECTION OPERATIONS

Intersection operations were analyzed for the PM peak hour to evaluate whether the transportation network currently operates within desired performance levels as required by the City of McMinnville. Intersections are the focus of the analysis because they are the controlling bottlenecks of traffic flow and the ability of a roadway system to carry traffic efficiently is nearly always diminished in their vicinity. The existing AM and PM peak hour intersection operations at the study intersection were determined based on the 6th Edition Highway Capacity Manual methodology.⁵ Table 1 lists the estimated average delay (in seconds), level of service (LOS), and volume to capacity (v/c) ratio for each study intersection. As shown, all intersections currently meet the City's mobility standard.

⁵ Highway Capacity Manual, 6th Edition, Transportation Research Board, 2017.

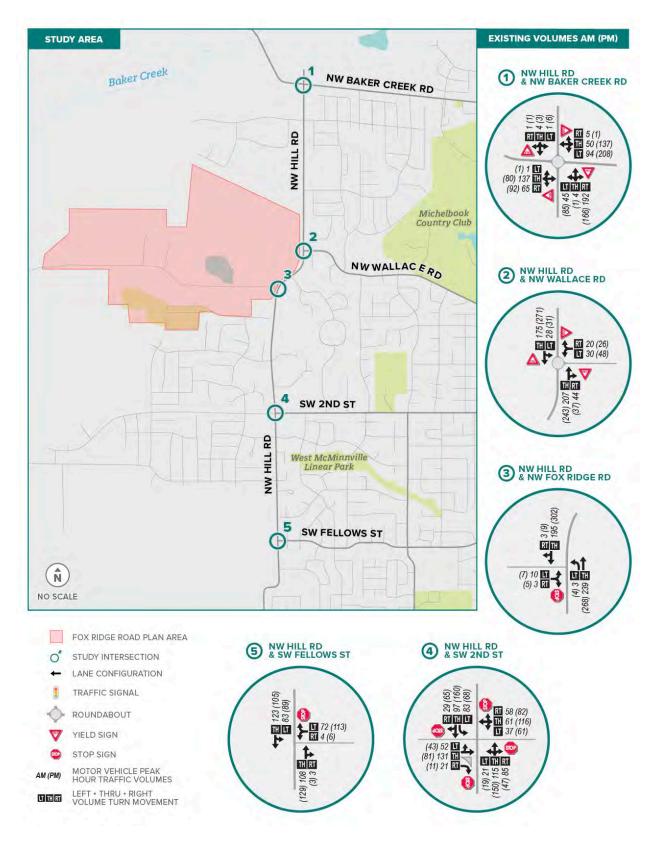


FIGURE 1: EXISTING 2023 TRAFFIC VOLUMES, LANE GEOMETRIES, AND TRAFFIC CONTROL

TABLE 1: EXISTING (2023) INTERSECTION OPERATIONS

	TRAFFIC	OPERATING	AN	I PEAK HOU	२	PN		JR
INTERSECTION	CONTROL	STANDARD	V/C	DELAY	LOS	V/C	DELAY	LOS
NW HILL ROAD AT BAKER CREEK ROAD	Roundabout	v/c ≤ 0.90	0.25	5	A	0.29	5	А
NW HILL ROAD AT WALLACE ROAD	Roundabout	v/c ≤ 0.90	0.29	6	А	0.26	5	А
NW HILL ROAD AT FOX RIDGE ROAD	Two-Way Stop	v/c ≤ 0.90	0.03	12	В	0.03	12	В
NW HILL ROAD AT 2 ND ST	All-Way Stop	v/c ≤ 0.90	0.48	15	С	0.46	15	С
NW HILL ROAD AT FELLOWS ST	Two-Way Stop	v/c ≤ 0.90	0.11	10	A	0.15	10	А

Delay = Critical Approach Delay (secs)

v/c = Critical Approach Volume-to-Capacity Ratio

LOS = Critical Approach Level of Service

BOLD/RED = Does not meet the operating standard

BICYCLE, PEDESTRIAN, AND TRANSIT NEEDS

Bicycle, pedestrian, and transit conditions and needs were considered for the study area.

NW Hill Road between Baker Creek Road and 2nd Street was reconstructed with on-street bike lanes, gutter, curb, sidewalks, and a center turn lane/raised median since the TSP was adopted in 2010. There are still some gaps in the sidewalk along the west side of Hill Road adjacent to the Fox Ridge Road plan area that will be filled in as development and annexation occurs. The segment of NW Hill Road between 2nd Street and Alexandria Street is presently lacking in sidewalks, curb, gutter, and on-street bike lanes (wide paved shoulders for bikes are currently present).

Currently, there are no local transit routes that stop or travel along NW Hill Road. As the Fox Ridge Road area develops, transit routes and stops should be extended to residential and commercial locations along NW Hill Road.

PRIORITY TSP PROJECTS

The priority vehicle, pedestrian, and bicycle projects identified in the McMinnville TSP (2010) that are applicable to the Fox Ridge study area include the following. These improvements were not included in either of the future 2041 scenarios.

- Complete Streets Upgrade NW Hill Road South (between 2nd Street and Alexandria Street) includes addition of on-street bicycle lanes and sidewalks
- Installation of a roundabout or traffic signal at NW Hill Road & 2nd Street

FUTURE BASELINE CONDITIONS (2041)

Future baseline (2041) traffic conditions were evaluated for the study area and include the forecasted baseline traffic volumes and intersection operations.

FUTURE BASELINE TRAFFIC VOLUMES

Future traffic volumes were forecasted for the study intersections using the travel forecast models developed specifically for McMinnville and maintained by the Transportation Planning Analysis Unit (TPAU).⁶ The existing year and future year volumes from the models were used to estimate an average annual vehicle growth rate on NW Hill Road. The growth was estimated to be approximately 4% per year along NW Hill Road, which is consistent with the current urban growth boundary and population estimates through 2041. This growth rate was applied to all study intersections and includes expected growth in the future Southwest area west of NW Hill Road near 2nd Street and Fellows Street, the mixed-use area on the northeast corner of Baker Creek Road and NW Hill Road, and the planned high school⁷ and elementary school⁸ near Wallace Road. A fourth leg was assumed at the Wallace Road intersection and the Fellows Street intersection to provide access to these future growth areas.

Figure 2 shows the AM and PM peak hour traffic volumes for the study intersections based on the model assumptions. Because these forecasts are consistent with the current McMinnville land use assumptions, this scenario is referred to as the 2041 "Baseline" scenario. This scenario already accounts for a small amount of low-density residential land use in the Fox Ridge Road plan area by 2041 (213 residential units) as well as the planned high school.

⁶ 2015 and 2041 Travel demand models maintained by ODOT TPAU.

⁷ The high school is assumed to support up to 1,160 students, consistent with the NW Hill Road: Traffic Analysis Study by CH2M Hill (March 1, 2016)

⁸ The elementary school is assumed to support up to 382 students, consistent with the NW Hill Road: Traffic Analysis Study by CH2M Hill (March 1, 2016).

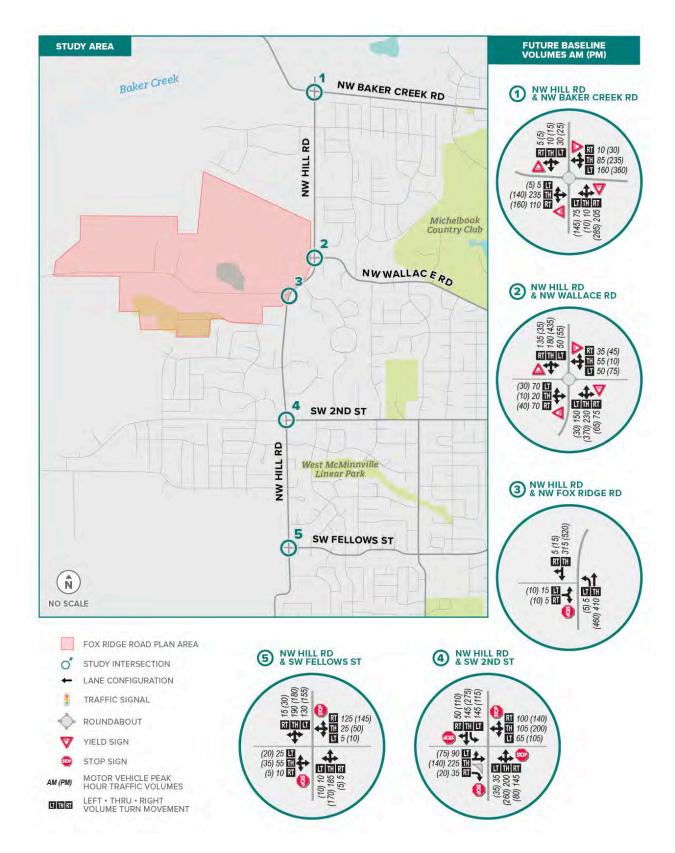


FIGURE 2: BASELINE (2041) TRAFFIC VOLUMES, LANE GEOMETRIES, AND TRAFFIC CONTROL

FUTURE BASELINE INTERSECTION OPERATIONS

Intersection traffic operations under the future 2041 Baseline scenario were analyzed for the AM and PM peak hour to evaluate whether the transportation network is expected to remain within desired performance levels as required by the City of McMinnville.

Table 2 lists the estimated average delay (in seconds), level of service (LOS), and volume to capacity (v/c) ratio that each study intersection and future access is expected to experience.

As shown, all intersections are expected to meet operating standards and targets under Baseline conditions with the exception of the NW Hill Road/2nd Street intersection. This intersection is estimated to experience high delays and operate over capacity by 2041 as an all-way stopcontrolled intersection. The McMinnville TSP identified the need for a traffic control upgrade at this intersection.

	TRAFFIC	OPERATING	AM		2	PM	PEAK HOUR	!
INTERSECTION	CONTROL	STANDARD	V/C	DELAY	LOS	V/C	DELAY	LOS
NW HILL ROAD AT BAKER CREEK ROAD	Roundabout	v/c ≤ 0.90	0.37	7	А	0.56	9	A
NW HILL ROAD AT WALLACE ROAD	Roundabout	v/c ≤ 0.90	0.44	7	A	0.48	7	A
NW HILL ROAD AT FOX RIDGE ROAD	Two-Way Stop	v/c ≤ 0.90	0.06	15	В	0.07	17	С
NW HILL ROAD AT 2 ND ST	All-Way Stop	v/c ≤ 0.90	1.02	84	F	1.30	168	F
NW HILL ROAD AT FELLOWS ST	Two-Way Stop	v/c ≤ 0.90	0.35	25	С	0.28	26	D

TABLE 2: FUTURE BASELINE (2041) INTERSECTION OPERATIONS

Delay = Critical Approach Delay (secs) v/c = Critical Approach Volume-to-Capacity Ratio

LOS = Critical Approach Level of Service

BOLD/RED = Does not meet the operating standard

PREFERRED LAND USE SCENARIO CONDITIONS (2041)

Preferred Land Use Scenario (2041) traffic conditions were evaluated for the study area and include the land use assumptions for the preferred scenario for the development of Fox Ridge Area, anticipated intersection operations, and identified transportation improvements.

PREFERRED LAND USE ASSUMPTIONS

As mentioned previously, the future year 2041 McMinnville Travel Demand model currently assumes some amount of low-density residential development and the planned high school⁹ within the Fox Ridge Road plan area. It also included the expected growth in the future Southwest area west of NW Hill Road near 2nd Street and Fellows Street, the mixed-use area on the northeast corner of Baker Creek Road and NW Hill Road, and the planned elementary school¹⁰ near Wallace Road.

Based on the Preferred Land Use scenario, the quantity of anticipated housing units and size of commercial-retail space in the Fox Ridge Road plan area exceeds what is currently assumed in the travel demand model. Therefore, additional vehicle trips representing the additional land uses must be estimated and added to the Baseline scenario to represent the Preferred Land Use scenario.

The table below shows the estimated residential units and commercial-retail space for both the 2041 Baseline scenario and the 2041 Preferred Land Use Scenario. As shown, under the Preferred Land Use Scenario concept, the estimated reasonable number of housing units is 710 (mix of low-, medium-, and high-density) and approximately 23,000 square feet of commercial-retail gross floor area.

Because the Baseline scenario already accounted for 213 residential units, the net increase is 497 residential units and 23 KSF of commercial-retail gross floor area due to the full buildout of the Preferred Land Use scenario.

SCENARIO	RESIDENTIAL (UNITS)	COMMERCIAL-RETAIL (KSF) ^a
2041 BASELINE	213	0
2041 PREFERRED LAND USE SCENARIO	710	23
NET INCREASE	+497	+23

TABLE 3: LAND USE ASSUMPTIONS

 a KSF = 1,000 square feet

To analyze the impacts of the Preferred Land Use scenario on the study area, DKS obtained trip generation rates from the McMinnville Travel Demand model for the residential vehicle trips to

⁹ The high school is assumed to support up to 1,160 students, consistent with the NW Hill Road: Traffic Analysis Study by CH2M Hill (March 1, 2016)

¹⁰ The elementary school is assumed to support up to 382 students, consistent with the NW Hill Road: Traffic Analysis Study by CH2M Hill (March 1, 2016).

estimate the additional amount of vehicle traffic generated by the Preferred Land Use scenario. The commercial-retail trip generation was estimated using trip rates from the Institute of Transportation Engineers (ITE) Trip Generation Manual for Land Use 822. These assumptions were coordinated with the City of McMinnville and ODOT staff.

The trip generation rates for residential and commercial-retail land use were then applied to the estimated net increase of housing units and square feet of commercial-retail land use (Table 3). The resulting trip generation for the AM and PM peak hours is presented in Table 4.

	ND USE SIZE AM TRIP PM TRIP TRIP RATE		AM	I PEAK I	HOUR	PM PEAK HOUR				
LAND USE	SIZE	RATE	RATE	SOURCE	IN	OUT	TOTAL	IN	OUT	TOTAL
RESIDENTIAL	497 units	0.55 trips/unit	0.74 trips/unit	McMinnville Travel Demand Model	68	205	273	232	136	368
COMMERCIAL- RETAIL	23 KSF	2.36 trips/KSF	6.59 trips/KSF	ITE Trip Generation Manual	32	22	54	76	76	152
			TRI	P GENERATION	100	227	327	308	212	520

TABLE 4: VEHICLE TRIP GENERATION

It should be noted that no internal trip reduction was applied to the trip generation estimates above. While it is common practice to apply a reduction factor to account for internal trips within a mixed-use development, the land use within the mixed-use area is only conceptual at this point in time and detailed land use breakdowns (i.e., office space vs retail space vs hotel) are not known. The number of housing units and overall building square footages within the mixed-use area were estimated based on typical land use densities, and accounting for internal trip capture would introduce another layer of uncertainty to the trip generation estimates. Because of this, it was not practical or appropriate to calculate an internal trip reduction factor based on the NCHRP 684 methodology in this traffic study, of which the main goal is to help identify and inform high-level transportation issues that would need to be addressed in the City's Transportation System Plan update. Internal trip reductions should be included in the future traffic studies that will be required as development occurs within the Fox Ridge Road plan area.

These vehicle trips were then distributed through the study area based on distribution data from the McMinnville Travel Demand model. The trip distribution was as follows. The trip distribution assumptions were coordinated with City and ODOT staff.

- 5% of trips via NW Baker Creek Road (west of city limits)
- 30% of trips via NW Baker Creek Road (east of NW Hill Rd)
- 15% of trips via NW Wallace Road

- 30% of trips via SW 2nd Street (east)
- 5% of trips via SW 2nd Street (west)
- 10% of trips via SW Fellows Street
- 5% of trips via SW NW Hill Road south of SW Fellows Street

PREFERRED LAND USE SCENARIO TRAFFIC VOLUMES

The future 2041 Preferred Scenario traffic volumes were estimated by adding the 2041 Future Baseline volumes and the vehicle trips as shown in Table 4.

Intersection operations were then evaluated to determine how sufficiently the City's future transportation system would support the long-term estimated build-out of the Fox Ridge Road area, therefore determining what improvements might be needed. The AM and PM peak hour traffic volumes, lane geometries, and intersection operating conditions are shown in Figure 3.

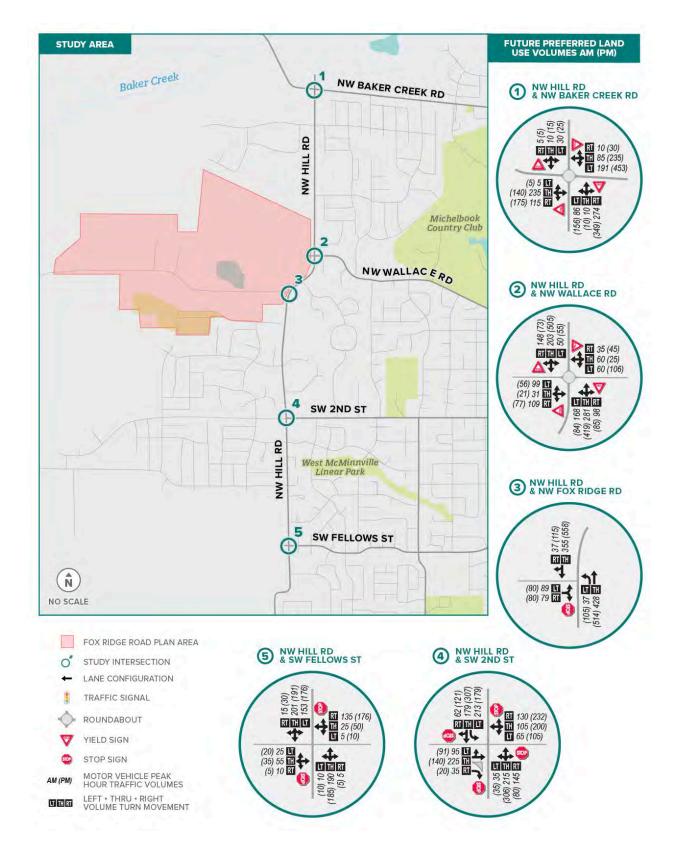


FIGURE 3: PREFERRED LAND USE (2041) TRAFFIC VOLUMES, LANE GEOMETRIES, AND TRAFFIC CONTROL

PREFERRED LAND USE SCENARIO INTERSECTION OPERATIONS

Intersection traffic operations under the future 2041 Preferred Land Use scenario were analyzed for the AM and PM peak hours with the same intersection geometries that were assumed in the Baseline scenario. Table 5 the estimated average delay (in seconds), level of service (LOS), and volume to capacity (v/c) ratio for each study intersection.

	TRAFFIC	OPERATING	AN	I PEAK HOU	R	PM	PEAK HOUR	!
INTERSECTION	CONTROL	STANDARD	V/C	DELAY	LOS	V/C	DELAY	LOS
NW HILL ROAD AT BAKER CREEK ROAD	Roundabout	v/c ≤ 0.90	0.42	7	A	0.65	10	В
NW HILL ROAD AT WALLACE ROAD	Roundabout	v/c ≤ 0.90	0.55	9	A	0.65	10	В
NW HILL ROAD AT FOX RIDGE ROAD	Two-Way Stop	v/c ≤ 0.90	0.51	25	С	0.91	92	F
NW HILL ROAD AT 2 ND ST	All-Way Stop	v/c ≤ 0.90	1.16	134	F	1.64	276	F
NW HILL ROAD AT FELLOWS ST	Two-Way Stop	v/c ≤ 0.90	0.40	29	D	0.34	33	D

TABLE 5: PREFERRED LAND USE SCENARIO (2041) INTERSECTION OPERATIONS

Delay = Critical Approach Delay (secs)

v/c = Critical Approach Volume-to-Capacity Ratio LOS = Critical Approach Level of Service

BOLD/RED = Does not meet the operating standard

As shown, the stop-controlled intersections of Fox Ridge Road and 2nd Street along NW Hill Road are expected to exceed the City's mobility standard.

Under the 2041 Baseline conditions, the intersection of 2nd Street was also shown to fail to meet the City's mobility standard (Table 2). This is due to the high level of growth and development that is expected along Hill Road through 2041. The comparison of Baseline to Preferred Land Use scenarios shows that the failure of 2nd Street is not just attributed to the Fox Ridge Road growth, but due also in part to the growth in the Southwest area, the Baker Creek mixed-use area, and the planned elementary school.

The Fox Ridge Road intersection does not meet the City's mobility standard under the full buildout of the Preferred Land Use scenario only.

PRIORITY TSP PROJECTS

As previously noted in an earlier section of the report, the priority vehicle, pedestrian, and bicycle projects identified in the McMinnville TSP (2010) that are applicable to the Fox Ridge study area include the following. These improvements were not included in any of the future 2041 scenarios.

- Complete Streets Upgrade NW Hill Road South (between 2nd Street and Alexandria Street) includes addition of on-street bicycle lanes and sidewalks
- Installation of a roundabout or traffic signal at NW Hill Road & 2nd Street

RECOMMENDED TRANSPORTATION IMPROVEMENTS

The following improvement projects have been identified to address the vehicle operations at the two intersections along NW Hill Road to meet the City's v/c ratio performance standard. The recommended improvements are described below.

NW HILL ROAD AT FOX RIDGE ROAD

At this intersection, install a single-lane roundabout or traffic signal. In addition to meeting capacity needs and improving vehicle delay, the proposed roundabout or traffic signal would provide safe pedestrian, bicycle, and vehicle access to the Fox Ridge Road plan area. The single-lane roundabout would calm vehicle traffic on NW Hill Road near the planned schools and also provide higher safety benefits compared to the traffic signal. See the list of *Advantages of Installing A Roundabout*.

The intersection was initially analyzed with a stop-control on the minor street approach (Fox Ridge Road) with two separate left and right turn approach lanes. This lane configuration would reduce the v/c ratio to within the City's performance standard; however, the average delay would still exceed an average of 85 seconds on the Fox Ridge Road approach (LOS F). Often, high vehicle delays associated with LOS F result in impatient drivers that accept smaller gaps in traffic when making left turns which can increase vehicle crashes and cause safety issues for all modes of travel. Therefore, it is recommended that a single-lane roundabout or traffic signal be included as part of the transportation improvements for the Fox Ridge Road Area Plan.

NW HILL ROAD AT 2ND STREET

At this intersection, install a single-lane roundabout or traffic signal. A single laneroundabout and a traffic signal with northbound left turn lane both provide adequate vehicular capacity and reduce vehicle delay through 2041. The current TSP (2010) indicates the need for a roundabout or traffic signal at this intersection. The single-lane roundabout would calm vehicle traffic on NW Hill Road by slowing vehicle speeds and provide higher safety benefits compared to the traffic signal. See the list of *Advantages of Installing A Roundabout*.

IMPROVED OPERATING CONDITIONS

The table below shows the intersection operations for the two intersections with the identified transportation improvements in place. As shown, the intersections will meet the City LOS standard while providing safe multimodal improvements for pedestrians and bicycles.

		OPERATING	АМ	PEAK HOU	R	PM PEAK HOUR					
INTERSECTION	IMPROVEMENT	STANDARD	V/C	DELAY	LOS	V/C	DELAY	LOS			
NW HILL ROAD AT	Roundabout	v/c ≤ 0.90	0.42	6	А	0.61	9	A			
FOX RIDGE ROAD	Traffic Signal	v/c ≤ 0.90	0.46	8	А	0.58	7	A			
NW HILL ROAD AT	Roundabout	v/c ≤ 0.90	0.63	12	В	0.74	16	С			
2 ND ST	Traffic Signal	v/c ≤ 0.90	0.77	32	С	0.89	40	D			

TABLE 6: PREFERRED LAND USE SCENARIO (2041) INTERSECTION OPERATIONS - WITH **IMPROVEMENTS**

Delay = Critical Movement Delay (secs)

v/c = Critical Movement Volume-to-Capacity Ratio LOS = Critical Levels of Service (Major/Minor Road)

Advantages of Installing a Roundabout

- Roundabouts can reduce delay for side street traffic because no approach is given more • priority than another.
- Roundabouts can help to slow traffic speeds on the major roadway. Typical circulating • speeds for a roundabout are 15 – 20 miles per hour (mph), which would help to calm traffic in the vicinity of the Fox Ridge Road plan area and near the planned schools.
- Converting a stop-controlled intersection to a single-lane roundabout can reduce fatal and injury crashes by 82%.
- Roundabouts reduce the number of conflict points between vehicles and between vehicles and pedestrians/bicycles.

Disadvantages of Installing a Roundabout

- Because all approaches are treated the same and must yield to traffic within the roundabout, this would introduce delay for traffic on the major approaches (NW Hill Road).
- Roundabouts are more difficult for large trucks and agricultural vehicles to navigate and ٠ may result in complaints from the freight and agricultural community.

- Roundabouts can be difficult for school aged pedestrians and bicyclists to cross because there is no exclusive stop phase (as is provided with a traffic signal). The lack of straight paths and clear turns can also be difficult for people who are visually impaired.
- Roundabouts often require a larger footprint, which can require additional right-of-way dedication or acquisition.

SUMMARY & RECOMMENDATION

A summary of the transportation analysis and recommendations is provided below:

- The Fox Ridge Road Plan Area includes over 200 acres of land and the preferred development plan for the area primarily includes a mix of residential housing (low-, medium-, and high-density), parks and open spaces, some neighborhood mixed-use development, and a high school.
- The transportation analysis focused on five major intersections along NW Hill Road.
- Today, vehicle operations at the five study intersections meet the City's standard.
- New sidewalks, on-street bicycle lanes, and a raised center median were recently constructed along NW Hill Road between Baker Creek Road and 2nd Street, providing sufficient multimodal facilities along that northern half of NW Hill Road. However, the southern half of NW Hill Road south of 2nd Street is lacking in sidewalks, bicycle facilities, curb, and gutter.
- Currently, there are no local transit routes that stop or travel along NW Hill Road. As the Fox Ridge Road area develops, transit routes and stops should be extended to residential and commercial locations along NW Hill Road.
- Under the Preferred Land Use scenario, two of the study intersections on NW Hill Road fail to meet the City's operating standard, NW Hill Road & Fox Ridge Road and NW Hill Road & 2nd Street.
- The recommended intersection improvements at the two intersections are listed below:
 - NW Hill Road at Fox Ridge Road: Install a single-lane roundabout or traffic signal. This project is not listed in the City's current TSP (2010).
 - **NW Hill Road at 2nd Street:** Install a single-lane roundabout or traffic signal. This is consistent with the priority project identified in the City's current TSP (2010).

APPENDIX

CONTENTS

TRAFFIC COUNT DATA

LOS DESCRIPTION

EXISTING 2023 HCM REPORTS

FUTURE BASELINE 2041 HCM REPORTS

PREFERRED SCENARIO 2041 HCM REPORTS

RECOMMENDED IMPROVEMENTS HCM REPORTS

TRAVEL DEMAND MODEL OUTPUTS & ODOT CORRESPONDENCE

TRIP GENERATION VOLUME FIGURE

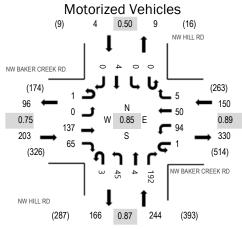
TRAFFIC COUNT DATA

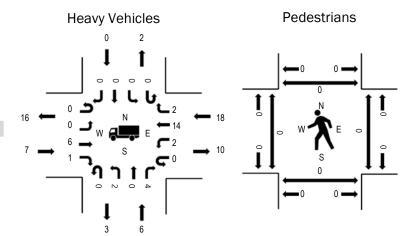


Location: 1 NW HILL RD & NW BAKER CREEK RD AM Date: Thursday, June 1, 2023 Peak Hour: 07:20 AM - 08:20 AM

Peak 15-Minutes: 07:50 AM - 08:05 AM

Peak Hour





Note: Total study counts contained in parentheses.

	HV%	PHF
EB	3.4%	0.75
WB	12.0%	0.89
NB	2.5%	0.87
SB	0.0%	0.50
All	5.2%	0.85

Traffic Counts - Motorized Vehicles

Interval	NW		R CREEK	RD	NV		R CREEK bound	RD			ILL RD				ILL RD			Rollin
Start Time	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total	Hou
7:00 AM	0	0	5	3	0	3	1	0	0	4	1	8	0	0	0	0	25	51
7:05 AM	0	0	3	4	0	6	1	0	0	1	0	11	0	0	0	0	26	54
7:10 AM	0	0	5	8	0	4	1	1	0	3	1	8	0	0	0	0	31	56
7:15 AM	0	0	9	3	0	4	0	2	0	5	0	13	0	0	0	0	36	59
7:20 AM	1	0	5	6	0	9	6	1	1	3	1	14	0	0	0	0	47	60
7:25 AM	0	0	7	5	0	4	3	0	0	3	0	14	0	0	0	0	36	59
7:30 AM	0	0	11	1	0	6	3	0	0	4	0	10	0	0	1	0	36	59
7:35 AM	0	0	19	6	0	9	3	0	0	6	0	17	0	0	2	0	62	58
7:40 AM	0	0	10	5	0	9	2	0	0	7	0	13	0	0	0	0	46	55
7:45 AM	0	0	11	9	0	5	4	0	0	2	0	19	0	0	0	0	50	54
7:50 AM	0	0	20	5	0	6	4	0	1	4	1	19	0	0	0	0	60	53
7:55 AM	0	0	14	5	1	13	4	0	1	4	0	20	0	0	0	0	62	50
8:00 AM	0	0	13	11	0	7	5	1	0	1	0	17	0	0	0	0	55	47
8:05 AM	0	0	7	6	0	11	2	0	0	3	1	18	0	0	0	0	48	
8:10 AM	0	0	10	3	0	9	5	2	0	4	0	20	0	0	0	0	53	
8:15 AM	0	0	10	3	0	6	9	1	0	4	1	11	0	0	1	0	46	
8:20 AM	0	0	8	6	1	7	6	0	0	3	0	8	0	0	1	0	40	
8:25 AM	0	0	5	3	0	7	3	0	0	4	1	10	0	1	0	0	34	
8:30 AM	0	0	8	2	0	4	4	0	0	3	0	8	0	0	0	0	29	
8:35 AM	0	0	8	3	0	8	6	0	0	2	0	6	0	0	0	1	34	
8:40 AM	0	0	5	5	0	7	7	1	0	3	0	8	0	1	1	0	38	
8:45 AM	0	0	6	3	0	12	5	0	1	2	0	4	0	0	0	0	33	
8:50 AM	0	0	9	4	0	4	2	0	0	7	0	9	0	0	0	0	35	
8:55 AM	0	0	4	4	0	4	2	0	0	2	0	13	0	0	0	0	29	
Count Total	1	0	212	113	2	164	88	9	4	84	7	298	0	2	6	1	991	
Peak Hour	1	0	137	65	1	94	50	5	3	45	4	192	0	0	4	0	601	

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles on Crosswalk

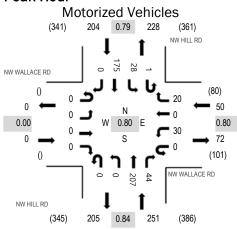
Interval		Hea	avy Vehicle	S		Interval		Bicycl	es on Road	dway		Interval	Pe	destrians/E	Bicycles on	Crosswa	lk
Start Time	EB	NB	WB	SB	Total	Start Time	EB	NB	WB	ŚB	Total	Start Time	EB	NB	WB	SB	Total
7:00 AM	1	0	0	0	1	7:00 AM	0	0	0	0	0	7:00 AM	0	0	0	0	0
7:05 AM	0	0	1	0	1	7:05 AM	0	0	0	0	0	7:05 AM	0	0	0	0	0
7:10 AM	0	2	2	0	4	7:10 AM	0	0	0	0	0	7:10 AM	0	0	0	0	0
7:15 AM	2	0	1	0	3	7:15 AM	0	0	0	0	0	7:15 AM	0	0	0	0	0
7:20 AM	0	0	2	0	2	7:20 AM	0	0	0	0	0	7:20 AM	0	0	0	0	0
7:25 AM	0	0	0	0	0	7:25 AM	0	0	0	0	0	7:25 AM	0	0	0	0	0
7:30 AM	1	0	0	0	1	7:30 AM	0	0	0	0	0	7:30 AM	0	0	0	0	0
7:35 AM	1	0	1	0	2	7:35 AM	0	0	0	0	0	7:35 AM	0	0	0	0	0
7:40 AM	0	0	0	0	0	7:40 AM	0	0	0	0	0	7:40 AM	0	0	0	0	0
7:45 AM	0	1	3	0	4	7:45 AM	0	0	0	0	0	7:45 AM	0	0	0	0	0
7:50 AM	0	0	1	0	1	7:50 AM	0	0	0	0	0	7:50 AM	0	0	0	0	0
7:55 AM	0	1	0	0	1	7:55 AM	0	0	0	0	0	7:55 AM	0	0	0	0	0
8:00 AM	1	1	2	0	4	8:00 AM	0	0	0	0	0	8:00 AM	0	0	0	0	0
8:05 AM	0	2	2	0	4	8:05 AM	0	0	0	0	0	8:05 AM	0	0	0	0	0
8:10 AM	0	1	3	0	4	8:10 AM	0	0	0	0	0	8:10 AM	0	0	0	0	0
8:15 AM	4	0	4	0	8	8:15 AM	0	0	0	0	0	8:15 AM	0	0	0	0	0
8:20 AM	2	0	0	0	2	8:20 AM	0	0	0	0	0	8:20 AM	0	0	0	0	0
8:25 AM	1	0	0	1	2	8:25 AM	0	0	0	0	0	8:25 AM	0	0	0	0	0
8:30 AM	1	0	1	0	2	8:30 AM	0	0	0	0	0	8:30 AM	0	0	0	0	0
8:35 AM	0	0	1	1	2	8:35 AM	0	0	0	0	0	8:35 AM	0	1	0	1	2
8:40 AM	1	0	1	0	2	8:40 AM	0	0	0	0	0	8:40 AM	0	0	0	0	0
8:45 AM	0	0	0	0	0	8:45 AM	0	0	0	0	0	8:45 AM	0	0	0	0	0
8:50 AM	0	1	0	0	1	8:50 AM	0	0	0	0	0	8:50 AM	0	0	0	0	0
8:55 AM	1	0	0	0	1	8:55 AM	0	0	0	0	0		0	0	0	0	0
Count Total	16	9	25	2	52	Count Total	0	0	0	0	0	Count Total	0	1	0	1	2
Peak Hour	7	6	18	0	31	Peak Hour	0	0	0	0	0	Peak Hour	0	0	0	0	0



Location: 2 NW HILL RD & NW WALLACE RD AM Date: Thursday, June 1, 2023 Peak Hour: 07:15 AM - 08:15 AM Peak 15-Minutes: 07:50 AM - 08:05 AM

DRAFT

Peak Hour

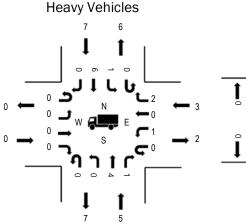


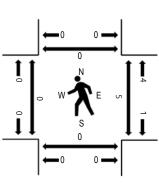
Note: Total study counts contained in parentheses.

oran oracid ocontainou in												
		HV%	PHF									
	EB	0.0%	0.00									
	WB	6.0%	0.80									
	NB	2.0%	0.84									
	SB	3.4%	0.79									
	All	3.0%	0.80									

Traffic Counts - Motorized Vehicles

	١	NW WAL	LACE RE)	I	NW WAL	LACE RI	D		NW H	ILL RD			NW H	ILL RD			
Interval		East	oound			West	bound			North	nbound			South	nbound			Rollir
Start Time	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total	Hou
7:00 AM	0	0	0	0	0	0	0	3	0	0	6	2	0	1	7	0	19	42
7:05 AM	0	0	0	0	0	3	0	0	0	0	12	1	0	0	5	0	21	46
7:10 AM	0	0	0	0	0	1	0	1	0	0	6	1	0	0	14	0	23	48
7:15 AM	0	0	0	0	0	0	0	2	0	0	14	3	0	1	14	0	34	50
7:20 AM	0	0	0	0	0	2	0	0	0	0	17	4	0	1	12	0	36	50
7:25 AM	0	0	0	0	0	1	0	0	0	0	9	2	0	3	9	0	24	49
7:30 AM	0	0	0	0	0	5	0	1	0	0	16	4	0	0	12	0	38	50
7:35 AM	0	0	0	0	0	0	0	3	0	0	18	5	0	0	13	0	39	49
7:40 AM	0	0	0	0	0	2	0	2	0	0	15	3	0	3	18	0	43	46
7:45 AM	0	0	0	0	0	3	0	1	0	0	17	3	0	5	18	0	47	44
7:50 AM	0	0	0	0	0	3	0	3	0	0	20	7	0	3	15	0	51	4
7:55 AM	0	0	0	0	0	4	0	2	0	0	20	4	1	3	18	0	52	4
8:00 AM	0	0	0	0	0	2	0	3	0	0	19	5	0	5	20	0	54	38
8:05 AM	0	0	0	0	0	7	0	1	0	0	16	2	0	4	13	0	43	
8:10 AM	0	0	0	0	0	1	0	2	0	0	26	2	0	0	13	0	44	
8:15 AM	0	0	0	0	0	5	0	0	0	0	15	2	0	1	9	0	32	
8:20 AM	0	0	0	0	0	2	0	2	0	0	8	1	0	1	13	0	27	
8:25 AM	0	0	0	0	0	4	0	3	0	0	11	0	0	5	10	0	33	
8:30 AM	0	0	0	0	0	0	0	1	0	0	10	4	0	1	10	0	26	
8:35 AM	0	0	0	0	0	1	0	1	1	0	6	1	0	1	6	0	17	
8:40 AM	0	0	0	0	0	0	0	0	0	0	6	0	0	1	13	0	20	
8:45 AM	0	0	0	0	0	1	0	0	0	0	6	1	1	0	17	0	26	
8:50 AM	0	0	0	0	0	0	0	2	0	0	17	0	1	1	5	0	26	
8:55 AM	0	0	0	0	0	0	0	0	0	0	15	3	0	1	13	0	32	
Count Total	0	0	0	0	0	47	0	33	1	0	325	60	3	41	297	0	807	
Peak Hour	0	0	0	0	0	30	0	20	0	0	207	44	1	28	175	0	505	5





Pedestrians

Interval Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles on Crosswalk Interval Heavy Vehicles Interval Bicycles on Roadway Interval Pedestrians/Bicycles on Crosswalk Start Time EB NB WB SB Total FR ND ND OD Total

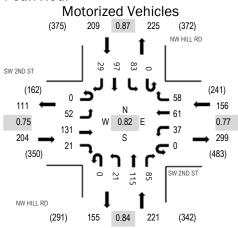
Interval		Hea	avy Vehicle	es		Interval		Bicycle	es on Road	lway		Interval		estrians/E	Bicyclès on	Crosswa	lk
Start Time	EB	NB	WB	SB	Total	Start Time	EB	NB	WB	SB	Total	Start Time	EB	NB	WB	SB	Total
7:00 AM	0	0	0	0	0	7:00 AM	0	0	0	0	0	7:00 AM	0	0	0	0	0
7:05 AM	0	1	0	0	1	7:05 AM	0	0	0	0	0	7:05 AM	0	0	0	0	0
7:10 AM	0	0	0	0	0	7:10 AM	0	0	0	0	0	7:10 AM	0	0	0	0	0
7:15 AM	0	0	0	3	3	7:15 AM	0	0	0	0	0	7:15 AM	0	0	2	0	2
7:20 AM	0	0	0	1	1	7:20 AM	0	0	0	0	0	7:20 AM	0	0	2	0	2
7:25 AM	0	0	0	0	0	7:25 AM	0	0	0	0	0	7:25 AM	0	0	0	0	0
7:30 AM	0	0	0	0	0	7:30 AM	0	0	0	0	0	7:30 AM	0	0	0	0	0
7:35 AM	0	0	0	0	0	7:35 AM	0	0	0	0	0	7:35 AM	0	0	0	0	0
7:40 AM	0	0	0	0	0	7:40 AM	0	0	0	0	0	7:40 AM	0	0	0	0	0
7:45 AM	0	1	1	0	2	7:45 AM	0	0	0	0	0	7:45 AM	0	0	0	0	0
7:50 AM	0	0	0	1	1	7:50 AM	0	0	0	0	0	7:50 AM	0	0	1	0	1
7:55 AM	0	1	1	1	3	7:55 AM	0	0	0	0	0	7:55 AM	0	0	0	0	0
8:00 AM	0	2	0	0	2	8:00 AM	0	0	0	0	0	8:00 AM	0	0	0	0	0
8:05 AM	0	1	0	0	1	8:05 AM	0	0	0	0	0	8:05 AM	0	0	0	0	0
8:10 AM	0	0	1	1	2	8:10 AM	0	0	0	0	0	8:10 AM	0	0	0	0	0
8:15 AM	0	0	0	1	1	8:15 AM	0	0	0	0	0	8:15 AM	0	0	0	0	0
8:20 AM	0	0	0	1	1	8:20 AM	0	0	0	0	0	8:20 AM	0	0	2	0	2
8:25 AM	0	0	0	0	0	8:25 AM	0	0	0	0	0	8:25 AM	0	0	1	0	1
8:30 AM	0	0	0	0	0	8:30 AM	0	0	0	0	0	8:30 AM	0	0	0	0	0
8:35 AM	0	0	0	0	0	8:35 AM	0	0	0	0	0	8:35 AM	0	0	0	0	0
8:40 AM	0	0	0	0	0	8:40 AM	0	0	0	0	0	8:40 AM	0	0	1	0	1
8:45 AM	0	0	0	0	0	8:45 AM	0	0	0	0	0	8:45 AM	0	0	0	0	0
8:50 AM	0	1	0	0	1	8:50 AM	0	0	0	0	0	8:50 AM	0	0	0	0	0
8:55 AM	0	0	0	0	0	8:55 AM	0	0	0	0	0	8:55 AM	0	0	0	0	0
Count Total	0	7	3	9	19	Count Total	0	0	0	0	0	Count Total	0	0	9	0	9
Peak Hour	0	5	3	7	15	Peak Hour	0	0	0	0	0	Peak Hour	0	0	5	0	5



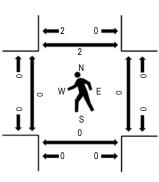
Location: 3 NW HILL RD & SW 2ND ST AM Date: Thursday, June 1, 2023 Peak Hour: 07:30 AM - 08:30 AM Peak 15-Minutes: 07:40 AM - 07:55 AM

RAFT

Peak Hour



Pedestrians **Heavy Vehicles** 6 4 Î _ сл 0 0 ļ C 0 10 11 I 0 \sim \sim 4 10 8



Note: Total study counts contained in parentheses.

		HV%	PHF
	EB	4.9%	0.75
1	WB	3.8%	0.77
	NB	3.6%	0.84
	SB	2.9%	0.87
	All	3.8%	0.82

Traffic Counts - Motorized Vehicles

Interval		East	ND ST bound			West	ND ST bound			North	ILL RD			South	LL RD			Rolling
Start Time	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total	Hour
7:00 AM	0	0	1	3	0	1	1	3	0	0	2	4	0	1	9	0	25	673
7:05 AM	0	5	7	0	0	1	1	3	0	0	7	0	0	4	4	1	33	715
7:10 AM	0	1	7	1	0	1	0	1	0	1	4	3	0	4	14	2	39	757
7:15 AM	0	7	12	1	0	1	1	4	0	0	7	5	0	8	7	0	53	786
7:20 AM	0	3	8	3	0	1	0	2	0	1	12	3	0	7	7	2	49	781
7:25 AM	0	4	15	2	0	1	2	5	0	0	5	3	0	6	3	3	49	785
7:30 AM	0	6	12	0	0	3	2	2	0	0	7	3	0	3	8	1	47	790
7:35 AM	0	2	11	1	0	3	5	3	0	0	12	8	0	10	7	4	66	787
7:40 AM	0	6	17	3	0	1	3	4	0	3	12	8	0	4	12	3	76	762
7:45 AM	0	5	23	2	0	4	5	3	0	4	7	10	0	14	6	2	85	721
7:50 AM	0	4	12	3	0	6	4	8	0	1	17	3	0	8	11	3	80	685
7:55 AM	0	8	11	0	0	3	3	7	0	4	11	9	0	7	4	4	71	657
8:00 AM	0	7	7	2	0	2	1	5	0	2	6	9	0	13	11	2	67	635
8:05 AM	0	3	13	1	0	1	13	9	0	2	9	6	0	3	12	3	75	
8:10 AM	0	3	7	1	0	5	7	6	0	1	11	11	0	10	5	1	68	
8:15 AM	0	3	8	3	0	5	3	3	0	1	7	5	0	2	7	1	48	
8:20 AM	0	3	5	2	0	1	8	3	0	3	4	8	0	6	6	4	53	
8:25 AM	0	2	5	3	0	3	7	5	0	0	12	5	0	3	8	1	54	
8:30 AM	0	1	8	2	0	4	4	4	0	1	4	5	0	3	5	3	44	
8:35 AM	0	3	10	4	0	2	2	1	0	0	4	3	0	4	5	3	41	
8:40 AM	0	0	5	1	0	6	0	4	0	1	2	3	0	2	9	2	35	
8:45 AM	0	4	8	1	0	3	3	2	0	0	10	0	0	5	11	2	49	
8:50 AM	0	2	4	1	0	5	3	5	0	2	11	5	0	5	5	4	52	
8:55 AM	0	2	7	3	0	1	4	3	0	1	10	2	0	7	8	1	49	
Count Total	0	84	223	43	0	64	82	95	0	28	193	121	0	139	184	52	1,308	_
Peak Hour	0	52	131	21	0	37	61	58	0	21	115	85	0	83	97	29	790	

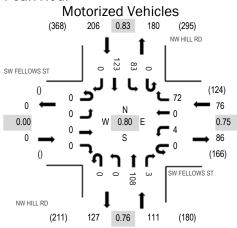
Interval		Hea	avy Vehicle	es		Interval		Bicycle	es on Road	dway		Interval	Ped	estrians/E	licycles on	Crosswal	k
Start Time	EB	NB	WB	SB	Total	Start Time	EB	NB	WB	SB	Total	Start Time	EB	NB	WB	SB	Total
7:00 AM	0	0	0	0	0	7:00 AM	0	0	0	0	0	7:00 AM	0	0	0	1	1
7:05 AM	0	0	1	0	1	7:05 AM	0	0	0	1	1	7:05 AM	0	0	0	0	0
7:10 AM	0	0	0	0	0	7:10 AM	0	0	0	0	0	7:10 AM	0	0	0	0	0
7:15 AM	0	0	1	2	3	7:15 AM	0	0	0	0	0	7:15 AM	0	0	0	0	0
7:20 AM	0	0	1	1	2	7:20 AM	0	0	0	0	0	7:20 AM	0	0	0	0	0
7:25 AM	2	0	0	0	2	7:25 AM	0	0	0	0	0	7:25 AM	0	0	0	0	0
7:30 AM	0	0	0	0	0	7:30 AM	0	0	0	0	0	7:30 AM	0	0	0	0	0
7:35 AM	0	1	1	0	2	7:35 AM	0	0	0	0	0	7:35 AM	0	1	0	0	1
7:40 AM	1	1	0	0	2	7:40 AM	0	0	0	0	0	7:40 AM	0	0	0	0	0
7:45 AM	1	0	2	1	4	7:45 AM	1	0	0	0	1	7:45 AM	0	1	0	0	1
7:50 AM	1	0	0	1	2	7:50 AM	1	0	0	0	1	7:50 AM	0	0	0	0	0
7:55 AM	2	2	0	0	4	7:55 AM	0	0	0	0	0	7:55 AM	0	1	0	0	1
8:00 AM	1	1	2	0	4	8:00 AM	1	0	0	0	1	8:00 AM	0	0	0	2	2
8:05 AM	1	0	1	0	2	8:05 AM	0	0	0	0	0	8:05 AM	0	0	0	0	0
8:10 AM	0	2	0	1	3	8:10 AM	0	0	0	0	0	8:10 AM	0	0	0	0	0
8:15 AM	2	0	0	2	4	8:15 AM	0	0	0	0	0	8:15 AM	0	0	0	0	0
8:20 AM	1	1	0	1	3	8:20 AM	0	1	0	0	1	8:20 AM	0	0	0	0	0
8:25 AM	0	0	0	0	0	8:25 AM	0	0	0	0	0	8:25 AM	0	0	0	0	0
8:30 AM	0	0	0	0	0	8:30 AM	0	0	0	0	0	8:30 AM	0	0	0	0	0
8:35 AM	0	1	1	1	3	8:35 AM	0	0	0	0	0	8:35 AM	0	0	0	0	0
8:40 AM	0	2	2	0	4	8:40 AM	0	0	0	0	0	8:40 AM	0	2	0	0	2
8:45 AM	1	0	0	0	1	8:45 AM	0	0	0	1	1	8:45 AM	0	1	0	0	1
8:50 AM	0	1	1	0	2	8:50 AM	0	0	0	0	0	8:50 AM	0	0	0	0	0
8:55 AM	0	0	1	0	1	8:55 AM	0	0	0	0	0	8:55 AM	0	0	0	0	0
Count Total	13	12	14	10	49	Count Total	3	1	0	2	6	Count Total	0	6	0	3	9
Peak Hour	10	8	6	6	30	Peak Hour	3	1	0	0	4	Peak Hour	0	3	0	2	5



Location: 4 NW HILL RD & SW FELLOWS ST AM Date: Thursday, June 1, 2023 Peak Hour: 07:10 AM - 08:10 AM Peak 15-Minutes: 07:45 AM - 08:00 AM

DRAFT

Peak Hour

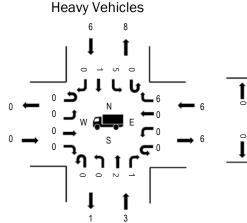


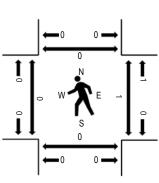
Note: Total study counts contained in parentheses.

	,	
	HV%	PHF
EB	0.0%	0.00
WB	7.9%	0.75
NB	2.7%	0.76
SB	2.9%	0.83
All	3.8%	0.80

Traffic Counts - Motorized Vehicles

later al				Γ			LOWS S	Г			ILL RD			NW HI				D - //'
Interval Start Time	U-Turn	Left	ound Thru	Right	U-Turn	Left	bound Thru	Right	U-Turn	Left	bound Thru	Right	U-Turn	Left	bound Thru	Right	Total	Rollii Hou
			-	0			-	0				0			-	Ū		
7:00 AM	0	0	0	0	0	0	0	4	0	0	1	0	0	5	12	0	22	3
7:05 AM	0	0	0	0	0	0	0	0	0	0	4	1	0	6	6	0	17	3
7:10 AM	0	0	0	0	0	0	0	5	0	0	9	0	0	6	12	0	32	3
7:15 AM	0	0	0	0	0	0	0	7	0	0	4	0	0	6	7	0	24	3
7:20 AM	0	0	0	0	0	0	0	2	0	0	9	0	0	4	16	0	31	3
7:25 AM	0	0	0	0	0	0	0	2	0	0	3	0	0	10	6	0	21	3
7:30 AM	0	0	0	0	0	0	0	0	0	0	10	0	0	4	9	0	23	3
7:35 AM	0	0	0	0	0	0	0	10	0	0	8	1	0	6	11	0	36	
7:40 AM	0	0	0	0	0	0	0	9	0	0	10	0	0	8	13	0	40	;
7:45 AM	0	0	0	0	0	1	0	6	0	0	11	1	0	9	9	0	37	
7:50 AM	0	0	0	0	0	1	0	6	0	0	10	1	0	13	10	0	41	
7:55 AM	0	0	0	0	0	0	0	14	0	0	15	0	0	10	6	0	45	
8:00 AM	0	0	0	0	0	2	0	6	0	0	9	0	0	2	14	0	33	
8:05 AM	0	0	0	0	0	0	0	5	0	0	10	0	0	5	10	0	30	
8:10 AM	0	0	0	0	0	0	0	4	0	0	4	0	0	7	5	0	20	
8:15 AM	0	0	0	0	0	1	0	5	0	0	12	0	0	5	6	0	29	
8:20 AM	0	0	0	0	0	0	0	5	0	0	6	0	0	4	7	0	22	
8:25 AM	0	0	0	0	0	0	0	11	0	0	7	0	0	6	9	0	33	
8:30 AM	0	0	0	0	0	0	0	1	0	0	6	0	0	8	8	0	23	
8:35 AM	0	0	0	0	0	0	0	2	0	0	2	0	0	7	3	0	14	
8:40 AM	0	0	0	0	0	0	0	4	0	0	2	0	0	9	5	0	20	
8:45 AM	0	0	0	0	0	0	0	4	0	0	5	0	0	7	12	0	28	
8:50 AM	0	0	0	0	0	0	0	4	0	0	11	0	0	8	5	0	28	
8:55 AM	0	0	0	0	0	0	0	3	0	0	8	0	0	7	5	0	23	
Count Total	0	0	0	0	0	5	0	119	0	0	176	4	0	162	206	0	672	
Peak Hour	0	0	0	0	0	4	0	72	0	0	108	3	0	83	123	0	393	-





Pedestrians

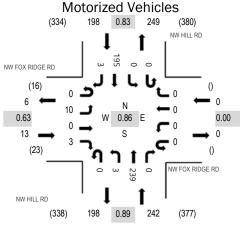
Interval		Hea	avy Vehicle	es		Interval		Bicycle	es on Road	dway		Interval	Pe	destrians/E	Bicycles on	Crosswal	lk
Start Time	EB	NB	WB	SB	Total	Start Time	EB	NB	WB	SB	Total	Start Time	EB	NB	WB	SB	Total
7:00 AM	0	0	0	0	0	7:00 AM	0	0	0	0	0	7:00 AM	0	0	0	0	0
7:05 AM	0	1	0	0	1	7:05 AM	0	0	0	0	0	7:05 AM	0	0	0	0	0
7:10 AM	0	1	0	0	1	7:10 AM	0	0	0	1	1	7:10 AM	0	0	0	0	0
7:15 AM	0	0	0	0	0	7:15 AM	0	0	0	0	0	7:15 AM	0	0	0	0	0
7:20 AM	0	0	1	2	3	7:20 AM	0	0	0	0	0	7:20 AM	0	0	0	0	0
7:25 AM	0	0	0	2	2	7:25 AM	0	0	0	0	0	7:25 AM	0	0	0	0	0
7:30 AM	0	0	0	0	0	7:30 AM	0	0	0	0	0	7:30 AM	0	0	0	0	0
7:35 AM	0	0	0	0	0	7:35 AM	0	0	0	0	0	7:35 AM	0	0	0	0	0
7:40 AM	0	0	1	0	1	7:40 AM	0	0	0	0	0	7:40 AM	0	0	0	0	0
7:45 AM	0	1	0	0	1	7:45 AM	0	0	0	1	1	7:45 AM	0	0	0	0	0
7:50 AM	0	0	1	1	2	7:50 AM	0	0	0	0	0	7:50 AM	0	0	0	0	0
7:55 AM	0	1	3	1	5	7:55 AM	0	0	0	0	0	7:55 AM	0	0	1	0	1
8:00 AM	0	0	0	0	0	8:00 AM	0	0	0	0	0	8:00 AM	0	0	0	0	0
8:05 AM	0	0	0	0	0	8:05 AM	0	0	0	0	0	8:05 AM	0	0	0	0	0
8:10 AM	0	0	0	1	1	8:10 AM	0	0	0	0	0	8:10 AM	0	0	0	0	0
8:15 AM	0	0	0	2	2	8:15 AM	0	1	0	0	1	8:15 AM	0	0	0	0	0
8:20 AM	0	0	1	0	1	8:20 AM	0	0	0	0	0	8:20 AM	0	0	0	0	0
8:25 AM	0	0	1	2	3	8:25 AM	0	0	0	0	0	8:25 AM	0	0	0	0	0
8:30 AM	0	0	0	0	0	8:30 AM	0	0	0	0	0	8:30 AM	0	0	0	0	0
8:35 AM	0	0	0	0	0	8:35 AM	0	0	0	0	0	8:35 AM	0	0	0	0	0
8:40 AM	0	0	2	0	2	8:40 AM	0	0	0	0	0	8:40 AM	0	0	0	0	0
8:45 AM	0	0	0	0	0	8:45 AM	0	0	0	1	1	8:45 AM	0	0	0	0	0
8:50 AM	0	0	0	0	0	8:50 AM	0	0	0	0	0	8:50 AM	0	0	0	0	0
8:55 AM	0	0	0	0	0	8:55 AM	0	0	0	0	0	8:55 AM	0	0	0	0	0
Count Total	0	4	10	11	25	Count Total	0	1	0	3	4	Count Total	0	0	1	0	1
Peak Hour	0	3	6	6	15	Peak Hour	0	0	0	2	2	Peak Hour	0	0	1	0	1



Location: 5 NW HILL RD & NW FOX RIDGE RD AM Date: Thursday, June 1, 2023 Peak Hour: 07:15 AM - 08:15 AM

Peak 15-Minutes: 07:45 AM - 08:00 AM

Peak Hour

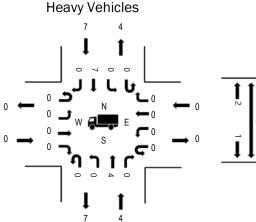


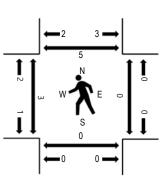
Note: Total study counts contained in parentheses.

D	tal study o	counts cor	ntained in pa
		HV%	PHF
	EB	0.0%	0.63
	WB	0.0%	0.00
	NB	1.7%	0.89
	SB	3.5%	0.83
	All	2.4%	0.86

Traffic Counts - Motorized Vehicles

Interval	N		RIDGE R	D	Ν	IW FOX West	RIDGE R bound	RD			ILL RD			NW HI South	LL RD			Rollin
Start Time	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total	Hou
7:00 AM	0	2	0	0	0	0	0	0	0	1	5	0	0	0	8	0	16	38
7:05 AM	0	0	0	0	0	0	0	0	0	0	14	0	0	0	10	0	24	41
7:10 AM	0	1	0	0	0	0	0	0	0	1	5	0	0	0	13	0	20	43
7:15 AM	0	2	0	0	0	0	0	0	0	0	16	0	0	0	15	0	33	45
7:20 AM	0	0	0	0	0	0	0	0	0	0	18	0	0	0	11	0	29	44
7:25 AM	0	1	0	0	0	0	0	0	0	0	14	0	0	0	10	0	25	44
7:30 AM	0	0	0	0	0	0	0	0	0	0	22	0	0	0	17	0	39	4
7:35 AM	0	0	0	0	0	0	0	0	0	0	20	0	0	0	12	0	32	4
7:40 AM	0	0	0	1	0	0	0	0	0	0	19	0	0	0	18	1	39	4
7:45 AM	0	0	0	1	0	0	0	0	0	1	19	0	0	0	21	0	42	3
7:50 AM	0	1	0	0	0	0	0	0	0	0	24	0	0	0	18	1	44	3
7:55 AM	0	1	0	0	0	0	0	0	0	0	24	0	0	0	20	0	45	3
8:00 AM	0	1	0	0	0	0	0	0	0	0	18	0	0	0	21	0	40	3
8:05 AM	0	2	0	1	0	0	0	0	0	1	22	0	0	0	16	1	43	
8:10 AM	0	2	0	0	0	0	0	0	0	1	23	0	0	0	16	0	42	
8:15 AM	0	0	0	1	0	0	0	0	0	0	10	0	0	0	11	0	22	
8:20 AM	0	1	0	2	0	0	0	0	0	2	11	0	0	0	15	0	31	
8:25 AM	0	0	0	0	0	0	0	0	0	3	17	0	0	0	12	0	32	
8:30 AM	0	0	0	0	0	0	0	0	0	1	10	0	0	0	10	0	21	
8:35 AM	0	0	0	0	0	0	0	0	0	0	5	0	0	0	8	0	13	
8:40 AM	0	1	0	0	0	0	0	0	0	0	5	0	0	0	12	0	18	
8:45 AM	0	0	0	0	0	0	0	0	0	0	10	0	0	0	17	0	27	
8:50 AM	0	0	0	1	0	0	0	0	0	0	18	0	0	0	8	0	27	
8:55 AM	0	0	0	1	0	0	0	0	0	1	16	0	0	0	11	1	30	
Count Total	0	15	0	8	0	0	0	0	0	12	365	0	0	0	330	4	734	_
Peak Hour	0	10	0	3	0	0	0	0	0	3	239	0	0	0	195	3	453	





Pedestrians

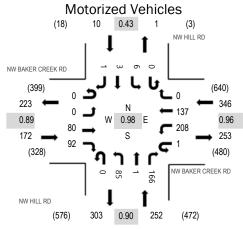
Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles on Crosswalk Bicycles on Roadway Pede Interval Heavy Vehicles Interval Interva strians/Bicycles on Crosswalk EB Start Time EΒ NB WB Start Time EΒ NB WB SB Start Time NB -WB SB Total SB Total Total 7:00 AM 7:00 AM 7:00 AM 7:05 AM 7:05 AM 7:05 AM 7:10 AM 7:10 AM 7:10 AM 7:15 AM 7:15 AM 7:15 AM 7:20 AM 7:20 AM 7:20 AM 7:25 AM 7:25 AM 7:25 AM 7:30 AM 7:30 AM 7:30 AM 7:35 AM 7:35 AM 7:35 AM 7:40 AM 7:40 AM 7:40 AM 7:45 AM 7:45 AM 7:45 AM 7:50 AM 7:50 AM 7:55 AM 7:55 AM 7:55 AM 8:00 AM 8:00 AM 8:00 AM 8:05 AM 8:05 AM 8:05 AM 8:10 AM 8:10 AM 8:10 AM 8:15 AM 8:15 AM 8:15 AM 8:20 AM 8:20 AM 8:20 AM 8:25 AM 8:25 AM 8:25 AM 8:30 AM 8:30 AM 8:30 AM 8:35 AM 8:35 AM 8:35 AM 8:40 AM 8:40 AM 8:40 AM 8:45 AM 8:45 AM 8:45 AM 8:50 AM 8:50 AM 8:50 AM 8:55 AM 8:55 AM 8:55 AM Count Total 17 Count Total 2 Count Total Peak Hour 11 Peak Hour 0 Peak Hour

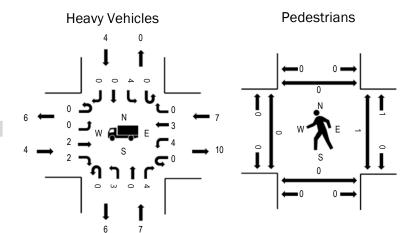


Location:1 NW HILL RD & NW BAKER CREEK RDPMDate:Thursday, June 1, 2023Peak Hour:04:30 PM - 05:30 PM

Peak 15-Minutes: 04:45 PM - 05:00 PM

Peak Hour





Note: Total study counts contained in parentheses.

	HV%	PHF
EB	2.3%	0.89
WB	2.0%	0.96
NB	2.8%	0.90
SB	40.0%	0.43
All	2.8%	0.98

Traffic Counts - Motorized Vehicles

Interval	NW	East	R CREEK bound	RD	NV		R CREEK bound	RD			ILL RD				ILL RD			Rolling
Start Time	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total	Hour
4:00 PM	0	0	7	6	0	19	11	0	0	6	0	13	0	2	1	0	65	762
4:05 PM	0	0	3	9	0	17	8	0	0	9	0	15	0	0	1	1	63	759
4:10 PM	0	0	13	6	0	20	7	0	0	9	0	10	0	0	0	0	65	760
4:15 PM	0	0	7	8	0	16	6	0	0	7	0	11	0	0	0	0	55	755
4:20 PM	0	0	6	5	0	19	8	0	0	6	0	21	0	1	0	0	66	750
4:25 PM	0	0	6	5	0	12	7	1	0	6	0	10	0	0	0	2	49	753
4:30 PM	0	0	7	7	0	22	12	0	0	9	0	13	0	0	0	0	70	780
4:35 PM	0	0	9	6	0	20	11	0	0	7	0	12	0	0	1	0	66	764
4:40 PM	0	0	4	15	0	14	6	0	0	4	0	20	0	0	0	0	63	747
4:45 PM	0	0	8	6	0	17	15	0	0	7	0	11	0	0	0	0	64	740
4:50 PM	0	0	4	9	0	14	10	0	0	12	0	17	0	1	0	0	67	728
4:55 PM	0	0	12	6	0	18	13	0	0	4	0	16	0	0	0	0	69	726
5:00 PM	0	0	5	8	0	14	16	0	0	8	0	11	0	0	0	0	62	696
5:05 PM	0	0	11	9	0	15	9	0	0	6	1	10	0	1	1	1	64	
5:10 PM	0	0	5	6	0	20	10	0	0	7	0	11	0	1	0	0	60	
5:15 PM	0	0	6	3	1	15	6	0	0	2	0	14	0	3	0	0	50	
5:20 PM	0	0	6	11	0	17	11	0	0	8	0	16	0	0	0	0	69	
5:25 PM	0	0	3	6	0	22	18	0	0	11	0	15	0	0	1	0	76	
5:30 PM	0	0	10	10	0	15	3	0	0	4	0	12	0	0	0	0	54	
5:35 PM	0	0	5	3	0	21	6	0	0	4	0	10	0	0	0	0	49	
5:40 PM	0	0	4	2	0	14	11	0	0	11	1	13	0	0	0	0	56	
5:45 PM	0	0	6	8	0	15	9	0	0	6	0	8	0	0	0	0	52	
5:50 PM	0	0	9	8	0	18	12	0	0	6	0	12	0	0	0	0	65	
5:55 PM	0	0	6	4	0	11	8	0	0	3	0	7	0	0	0	0	39	
Count Total	0	0	162	166	1	405	233	1	0	162	2	308	0	9	5	4	1,458	_
Peak Hour	0	0	80	92	1	208	137	0	0	85	1	166	0	6	3	1	780	i -

Interval		Hea	avy Vehicle	es		Interval		Bicycle	es on Road	dway		Interval	P	edestrians/E	Bicycles or	Crosswa	lk
Start Time	EB	NB	WB	SB	Total	Start Time	EB	NB	WB	SB	Total	Start Time	EB	NB	WB	SB	Total
4:00 PM	0	0	1	0	1	4:00 PM	0	0	0	0	0	4:00 PM	0	0	0	0	0
4:05 PM	0	1	0	1	2	4:05 PM	0	0	0	0	0	4:05 PM	0	0	0	0	0
4:10 PM	2	1	1	0	4	4:10 PM	0	0	0	0	0	4:10 PM	0	0	0	0	0
4:15 PM	0	0	1	0	1	4:15 PM	0	0	0	0	0	4:15 PM	0	0	0	0	0
4:20 PM	0	1	0	0	1	4:20 PM	0	0	1	0	1	4:20 PM	0	0	0	0	0
4:25 PM	1	0	1	0	2	4:25 PM	0	0	0	0	0	4:25 PM	0	0	0	0	0
4:30 PM	0	2	2	0	4	4:30 PM	0	0	0	0	0	4:30 PM	0	0	0	0	0
4:35 PM	1	1	0	0	2	4:35 PM	0	0	0	0	0	4:35 PM	0	0	0	0	0
4:40 PM	1	1	0	0	2	4:40 PM	0	0	0	0	0	4:40 PM	0	0	0	0	0
4:45 PM	0	0	2	0	2	4:45 PM	0	0	0	0	0	4:45 PM	0	0	0	0	0
4:50 PM	1	1	1	0	3	4:50 PM	0	0	0	0	0	4:50 PM	0	0	0	0	0
4:55 PM	1	0	0	0	1	4:55 PM	0	0	0	0	0	4:55 PM	0	0	0	0	0
5:00 PM	0	0	0	0	0	5:00 PM	0	0	0	0	0	5:00 PM	0	0	0	0	0
5:05 PM	0	0	0	0	0	5:05 PM	0	0	0	0	0	5:05 PM	0	0	0	0	0
5:10 PM	0	0	1	1	2	5:10 PM	0	0	0	0	0	5:10 PM	0	0	1	0	1
5:15 PM	0	0	0	3	3	5:15 PM	0	0	0	0	0	5:15 PM	0	0	0	0	0
5:20 PM	0	1	0	0	1	5:20 PM	0	0	0	0	0	5:20 PM	0	0	0	0	0
5:25 PM	0	1	1	0	2	5:25 PM	0	0	0	0	0	5:25 PM	0	0	0	0	0
5:30 PM	0	0	0	0	0	5:30 PM	0	0	0	0	0	5:30 PM	0	0	0	0	0
5:35 PM	1	0	1	0	2	5:35 PM	0	0	0	0	0	5:35 PM	0	0	0	0	0
5:40 PM	0	0	1	0	1	5:40 PM	0	0	0	0	0	5:40 PM	0	0	0	0	0
5:45 PM	1	0	1	0	2	5:45 PM	0	0	0	0	0	5:45 PM	0	0	0	0	0
5:50 PM	0	0	0	0	0	5:50 PM	0	0	0	0	0	5:50 PM	0	0	0	0	0
5:55 PM	0	0	0	0	0	5:55 PM	0	1	0	0	1	5:55 PM	0	0	0	0	0
Count Total	9	10	14	5	38	Count Total	0	1	1	0	2	Count Total	0	0	1	0	1
Peak Hour	4	7	7	4	22	Peak Hour	0	0	0	0	0	Peak Hour	0	0	1	0	1



Location: 2 NW HILL RD & NW WALLACE RD PM Date: Thursday, June 1, 2023 Peak Hour: 04:35 PM - 05:35 PM

Peak 15-Minutes: 05:20 PM - 05:35 PM

ΔF

Î

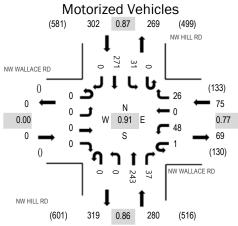
0

S

0

0

Peak Hour

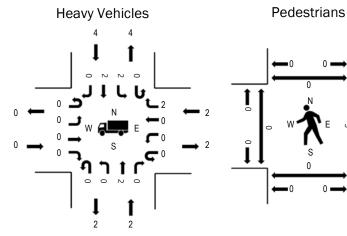


Note: Total study ntoir parentheses.

)	tal study c	ounts conta	ined in
		HV%	PHF
	EB	0.0%	0.00
	WB	2.7%	0.77
	NB	0.7%	0.86
	SB	1.3%	0.87
	All	1.2%	0.91

Traffic Counts - Motorized Vehicles

Interval	1			LACE RI	D			ILL RD				Rollin						
Start Time	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total	Hou
4:00 PM	0	0	0	0	0	0	0	1	0	0	17	5	1	3	15	0	42	62
4:05 PM	0	0	0	0	0	4	0	3	0	0	23	1	0	3	19	0	53	64
4:10 PM	0	0	0	0	0	4	0	0	0	0	20	1	0	5	24	0	54	64
4:15 PM	0	0	0	0	0	8	0	4	0	0	15	3	0	3	21	0	54	64
4:20 PM	0	0	0	0	0	2	0	2	0	0	22	2	0	2	26	0	56	63
4:25 PM	0	0	0	0	0	3	0	2	0	0	15	4	0	1	17	0	42	63
4:30 PM	0	0	0	0	0	3	0	5	0	0	18	3	0	1	27	0	57	6
4:35 PM	0	0	0	0	0	3	0	3	0	0	17	2	0	3	24	0	52	65
4:40 PM	0	0	0	0	0	2	0	2	0	0	24	1	0	4	28	0	61	6
4:45 PM	0	0	0	0	0	5	0	3	0	0	14	4	0	1	20	0	47	6
4:50 PM	0	0	0	0	0	2	0	3	0	0	30	4	0	3	14	0	56	6
4:55 PM	0	0	0	0	0	2	0	0	0	0	20	3	0	1	24	0	50	6
5:00 PM	0	0	0	0	0	4	0	4	0	0	20	5	0	2	23	0	58	6
5:05 PM	0	0	0	0	0	6	0	3	0	0	15	5	0	5	24	0	58	
5:10 PM	0	0	0	0	1	5	0	3	0	0	15	2	0	3	23	0	52	
5:15 PM	0	0	0	0	0	3	0	0	0	0	19	1	0	1	19	0	43	
5:20 PM	0	0	0	0	0	5	0	1	0	0	25	2	0	2	24	0	59	
5:25 PM	0	0	0	0	0	3	0	2	0	0	26	4	0	2	25	0	62	
5:30 PM	0	0	0	0	0	8	0	2	0	0	18	4	0	4	23	0	59	
5:35 PM	0	0	0	0	0	0	0	0	0	0	17	3	0	3	18	0	41	
5:40 PM	0	0	0	0	0	1	0	3	0	0	22	2	0	1	17	0	46	
5:45 PM	0	0	0	0	0	5	0	2	0	0	10	1	0	3	18	0	39	
5:50 PM	0	0	0	0	0	5	0	1	0	0	18	1	0	6	26	0	57	
5:55 PM	0	0	0	0	0	0	0	0	0	0	9	4	0	0	19	0	32	
Count Total	0	0	0	0	1	83	0	49	0	0	449	67	1	62	518	0	1,230	
Peak Hour	0	0	0	0	1	48	0	26	0	0	243	37	0	31	271	0	657	



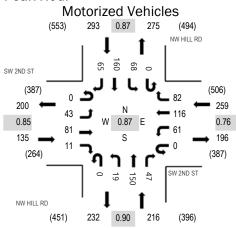
Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles on Crosswalk Heavy Vehicles Bicycles on Roadway Pedestrians/Bicycles on Crosswalk Interval Interval Interva EB Start Time EΒ NB WB Start Time EΒ NB WB SB Start Time NB -WB SB Total SB Total Total 4:00 PM 4:00 PM 4:00 PM 4:05 PM 4:05 PM 4:05 PM 4:10 PM 4:10 PM 4:10 PM 4:15 PM 4:15 PM 4:15 PM 4:20 PM 4:20 PM 4:20 PM 4:25 PM 4:25 PM 4:25 PM 4:30 PM 4:30 PM 4:30 PM 4:35 PM 4:35 PM 4:35 PM 4:40 PM 4:40 PM 4:40 PM 4:45 PM 4:45 PM 4:45 PM 4:50 PM 4:50 PM 4:50 PM 4:55 PM 4:55 PM 4:55 PM 5:00 PM 5:00 PM 5:00 PM 5:05 PM 5:05 PM 5:05 PM 5:10 PM 5:10 PM 5:10 PM 5:15 PM 5:15 PM 5:15 PM 5:20 PM 5:20 PM 5:20 PM 5:25 PM 5:25 PM 5:25 PM 5:30 PM 5:30 PM 5:30 PM 5:35 PM 5:35 PM 5:35 PM 5:40 PM 5:40 PM 5:40 PM 5:45 PM 5:45 PM 5:45 PM 5:50 PM 5:50 PM 5:50 PM 5:55 PM 5:55 PM 5:55 PM Count Total 21 Count Total 2 Count Total Peak Hour 8 Peak Hour 2 Peak Hour

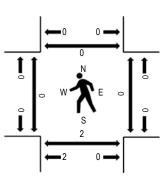


Location: 3 NW HILL RD & SW 2ND ST PM Date: Thursday, June 1, 2023 Peak Hour: 04:30 PM - 05:30 PM Peak 15-Minutes: 05:10 PM - 05:25 PM

DRAFT

Peak Hour





Pedestrians

Note: Total study counts contained in parentheses.

	HV%	PHF
EB	0.7%	0.85
WB	1.5%	0.76
NB	2.8%	0.90
SB	1.4%	0.87
All	1.7%	0.87

Traffic Counts - Motorized Vehicles

Interval		East	ND ST bound			West	ND ST bound			North	ILL RD			South	LL RD			Rollin
Start Time	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total	Hour
4:00 PM	0	4	6	4	0	5	12	2	0	1	13	6	0	3	10	2	68	859
4:05 PM	0	2	6	3	0	5	7	7	0	1	13	0	0	7	10	3	64	858
4:10 PM	0	1	6	1	0	5	11	8	0	3	10	5	0	6	14	7	77	862
4:15 PM	0	4	7	3	0	2	6	10	0	1	11	6	0	9	14	5	78	87
4:20 PM	0	3	9	1	0	7	13	8	0	3	6	4	0	6	13	4	77	88
4:25 PM	0	2	5	2	0	2	8	5	0	2	13	5	0	4	8	5	61	89
4:30 PM	0	2	4	1	0	7	12	7	0	2	11	7	0	5	12	4	74	90
4:35 PM	0	1	4	1	0	9	9	6	0	0	13	5	0	3	19	9	79	89
4:40 PM	0	6	7	1	0	5	12	3	0	3	12	7	0	3	19	10	88	89
4:45 PM	0	3	4	1	0	3	5	7	0	0	7	4	0	4	8	6	52	86
4:50 PM	0	1	9	0	0	5	4	8	0	1	17	3	0	2	8	5	63	87
4:55 PM	0	5	6	3	0	4	7	7	0	4	15	2	0	5	14	6	78	87
5:00 PM	0	0	11	2	0	3	6	7	0	1	14	2	0	6	13	2	67	86
5:05 PM	0	4	7	0	0	5	9	3	0	2	10	2	0	8	12	6	68	
5:10 PM	0	1	8	0	0	5	21	10	0	1	13	3	0	10	14	3	89	
5:15 PM	0	6	8	1	0	6	15	7	0	3	11	3	0	9	14	5	88	
5:20 PM	0	6	6	0	0	5	8	9	0	0	13	6	0	7	18	5	83	
5:25 PM	0	8	7	1	0	4	8	8	0	2	14	3	0	6	9	4	74	
5:30 PM	0	2	5	1	0	6	14	0	0	3	10	5	0	8	12	4	70	
5:35 PM	0	8	8	1	0	10	14	5	0	1	7	2	0	4	16	3	79	
5:40 PM	0	2	1	0	0	2	8	7	0	2	11	3	0	3	9	2	50	
5:45 PM	0	5	3	1	0	9	10	4	0	1	8	3	0	6	10	5	65	
5:50 PM	0	2	9	0	0	2	3	8	0	1	4	7	0	8	11	4	59	
5:55 PM	0	5	7	0	0	8	10	4	0	1	5	3	0	6	12	7	68	
Count Total	0	83	153	28	0	124	232	150	0	39	261	96	0	138	299	116	1,719	
Peak Hour	0	43	81	11	0	61	116	82	0	19	150	47	0	68	160	65	903	

Interval		Hea	avy Vehicle	es		Interval		Bicycle	es on Road	dway		Interval	P	edestrians/E	Bicycles or	Crosswa	lk
Start Time	EB	NB	WB	SB	Total	Start Time	EB	NB	WB	SB	Total	Start Time	EB	NB	WB	SB	Total
4:00 PM	2	1	1	1	5	4:00 PM	0	0	0	0	0	4:00 PM	0	1	0	0	1
4:05 PM	0	0	1	0	1	4:05 PM	0	0	0	0	0	4:05 PM	0	0	0	0	0
4:10 PM	0	1	0	0	1	4:10 PM	0	0	0	0	0	4:10 PM	0	0	0	0	0
4:15 PM	0	0	0	1	1	4:15 PM	0	0	0	0	0	4:15 PM	0	0	0	0	0
4:20 PM	0	0	0	0	0	4:20 PM	0	0	0	0	0	4:20 PM	0	1	0	0	1
4:25 PM	1	0	0	0	1	4:25 PM	0	0	0	0	0	4:25 PM	0	0	0	0	0
4:30 PM	0	1	2	1	4	4:30 PM	0	0	0	0	0	4:30 PM	0	0	0	0	0
4:35 PM	0	1	0	1	2	4:35 PM	0	0	0	0	0	4:35 PM	0	0	0	0	0
4:40 PM	0	0	0	0	0	4:40 PM	1	0	0	0	1	4:40 PM	0	3	0	0	3
4:45 PM	0	0	1	1	2	4:45 PM	0	0	0	0	0	4:45 PM	0	0	0	0	0
4:50 PM	1	0	0	0	1	4:50 PM	0	0	0	0	0	4:50 PM	0	1	0	0	1
4:55 PM	0	1	0	1	2	4:55 PM	0	0	0	0	0	4:55 PM	0	1	0	0	1
5:00 PM	0	0	0	0	0	5:00 PM	0	0	0	0	0	5:00 PM	0	0	0	0	0
5:05 PM	0	0	0	0	0	5:05 PM	0	0	0	0	0	5:05 PM	0	0	0	0	0
5:10 PM	0	1	0	0	1	5:10 PM	0	0	0	0	0	5:10 PM	0	0	0	0	0
5:15 PM	0	0	1	0	1	5:15 PM	0	0	0	0	0	5:15 PM	0	0	0	1	1
5:20 PM	0	2	0	0	2	5:20 PM	0	0	0	0	0	5:20 PM	0	0	0	0	0
5:25 PM	0	0	0	0	0	5:25 PM	0	0	0	0	0	5:25 PM	1	0	0	1	2
5:30 PM	0	0	0	0	0	5:30 PM	0	0	0	0	0	5:30 PM	0	0	0	0	0
5:35 PM	0	0	0	0	0	5:35 PM	0	0	0	0	0	5:35 PM	0	0	0	0	0
5:40 PM	0	0	0	1	1	5:40 PM	0	0	0	0	0	5:40 PM	0	0	0	0	0
5:45 PM	0	0	2	1	3	5:45 PM	0	0	0	0	0	5:45 PM	0	0	0	0	0
5:50 PM	2	0	0	1	3	5:50 PM	0	0	0	0	0	5:50 PM	0	0	0	0	0
5:55 PM	0	1	1	0	2	5:55 PM	0	0	0	0	0	5:55 PM	0	0	0	0	0
Count Total	6	9	9	9	33	Count Total	1	0	0	0	1	Count Total	1	7	0	2	10
Peak Hour	1	6	4	4	15	Peak Hour	1	0	0	0	1	Peak Hour	1	5	0	2	8



Location: 4 NW HILL RD & SW FELLOWS ST PM Date: Thursday, June 1, 2023 Peak Hour: 04:20 PM - 05:20 PM Peak 15-Minutes: 05:05 PM - 05:20 PM

Heavy Vehicles

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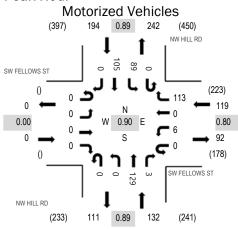
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C

0

Peak Hour



Note: Total study counts contained in parentheses.

	,	
	HV%	PHF
EB	0.0%	0.00
WB	2.5%	0.80
NB	1.5%	0.89
SB	1.5%	0.89
All	1.8%	0.90

Traffic Counts - Motorized Vehicles

Interval	:		LOWS ST	Г			LOWS S ⁻ bound	Т			ILL RD			NW H	LL RD			Rollin
Start Time	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total	Hou
4:00 PM	0	0	0	0	0	0	0	10	0	0	13	1	0	11	5	0	40	43
4:05 PM	0	0	0	0	0	0	0	10	0	0	5	0	0	8	12	0	35	42
4:10 PM	0	0	0	0	0	0	0	12	0	0	7	1	0	7	8	0	35	43
4:15 PM	0	0	0	0	0	1	0	5	0	0	12	0	0	10	9	0	37	44
4:20 PM	0	0	0	0	0	0	0	14	0	0	7	0	0	7	16	0	44	44
4:25 PM	0	0	0	0	0	0	0	6	0	0	13	0	0	4	10	0	33	43
4:30 PM	0	0	0	0	0	0	0	10	0	0	11	1	0	4	5	0	31	42
4:35 PM	0	0	0	0	0	1	0	7	0	0	12	0	0	7	11	0	38	43
4:40 PM	0	0	0	0	0	0	0	5	0	0	13	0	0	9	13	0	40	43
4:45 PM	0	0	0	0	0	2	0	6	0	0	8	1	0	5	8	0	30	42
4:50 PM	0	0	0	0	0	1	0	14	0	0	10	0	0	8	5	0	38	43
4:55 PM	0	0	0	0	0	0	0	9	0	0	12	0	0	4	9	0	34	42
5:00 PM	0	0	0	0	0	1	0	10	0	0	8	0	0	8	7	0	34	42
5:05 PM	0	0	0	0	0	1	0	11	0	0	10	0	0	7	11	0	40	
5:10 PM	0	0	0	0	0	0	0	14	0	0	12	1	0	11	4	0	42	
5:15 PM	0	0	0	0	0	0	0	7	0	0	13	0	0	15	6	0	41	
5:20 PM	0	0	0	0	0	0	0	9	0	0	7	0	0	6	9	0	31	
5:25 PM	0	0	0	0	0	0	0	5	0	0	11	0	0	5	8	0	29	
5:30 PM	0	0	0	0	0	0	0	10	0	0	11	0	0	8	10	0	39	
5:35 PM	0	0	0	0	0	0	0	8	0	0	7	0	0	6	16	0	37	
5:40 PM	0	0	0	0	0	0	0	7	0	0	9	1	0	8	9	0	34	
5:45 PM	0	0	0	0	0	0	0	6	0	0	10	0	0	4	11	0	31	
5:50 PM	0	0	0	0	0	0	0	11	0	0	8	0	0	3	12	0	34	
5:55 PM	0	0	0	0	0	0	0	10	0	0	5	1	0	6	12	0	34	
Count Total	0	0	0	0	0	7	0	216	0	0	234	7	0	171	226	0	861	_
Peak Hour	0	0	0	0	0	6	0	113	0	0	129	3	0	89	105	0	445	

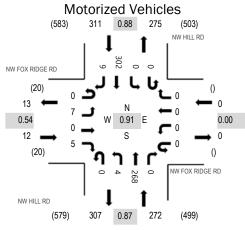
Interval		Hea	avy Vehicle	es		Interval		Bicycle	es on Road	dway		Interval	Pe	destrians/E	Bicyclès on	Crosswa	lk
Start Time	EB	NB	WB	SB	Total	Start Time	EB	NB	WB	ŚB	Total	Start Time	EB	NB	WB	SB	Total
4:00 PM	0	0	0	1	1	4:00 PM	0	0	0	0	0	4:00 PM	0	0	0	0	0
4:05 PM	0	0	0	1	1	4:05 PM	0	0	0	0	0	4:05 PM	0	0	0	0	0
4:10 PM	0	0	0	0	0	4:10 PM	0	0	0	0	0	4:10 PM	0	0	0	0	0
4:15 PM	0	0	2	1	3	4:15 PM	0	0	0	0	0	4:15 PM	0	0	0	0	0
4:20 PM	0	0	0	1	1	4:20 PM	0	0	0	0	0	4:20 PM	0	0	0	0	0
4:25 PM	0	0	0	1	1	4:25 PM	0	0	0	0	0	4:25 PM	0	0	0	0	0
4:30 PM	0	0	0	0	0	4:30 PM	0	0	0	0	0	4:30 PM	0	0	0	0	0
4:35 PM	0	0	0	0	0	4:35 PM	0	0	0	0	0	4:35 PM	0	0	0	0	0
4:40 PM	0	0	0	0	0	4:40 PM	0	0	0	1	1	4:40 PM	0	0	0	0	0
4:45 PM	0	0	0	0	0	4:45 PM	0	0	0	0	0	4:45 PM	0	0	0	0	0
4:50 PM	0	0	2	0	2	4:50 PM	0	0	0	0	0	4:50 PM	0	0	0	0	0
4:55 PM	0	0	0	1	1	4:55 PM	0	0	0	0	0	4:55 PM	0	0	0	0	0
5:00 PM	0	0	0	0	0	5:00 PM	0	0	0	0	0	5:00 PM	0	0	0	0	0
5:05 PM	0	0	0	0	0	5:05 PM	0	0	0	0	0	5:05 PM	0	0	0	0	0
5:10 PM	0	2	0	0	2	5:10 PM	0	0	0	0	0	5:10 PM	0	0	0	0	0
5:15 PM	0	0	1	0	1	5:15 PM	0	0	0	0	0	5:15 PM	0	0	0	0	0
5:20 PM	0	0	0	0	0	5:20 PM	0	0	0	1	1	5:20 PM	0	0	0	0	0
5:25 PM	0	1	0	0	1	5:25 PM	0	0	0	0	0	5:25 PM	0	0	0	0	0
5:30 PM	0	0	0	0	0	5:30 PM	0	0	0	0	0	5:30 PM	0	0	0	0	0
5:35 PM	0	0	0	0	0	5:35 PM	0	0	0	0	0	5:35 PM	0	0	0	0	0
5:40 PM	0	0	0	1	1	5:40 PM	0	0	0	0	0	5:40 PM	0	0	0	0	0
5:45 PM	0	1	0	1	2	5:45 PM	0	0	0	0	0	5:45 PM	0	0	0	0	0
5:50 PM	0	0	0	0	0	5:50 PM	0	0	0	0	0	5:50 PM	0	0	0	0	0
5:55 PM	0	0	0	0	0	5:55 PM	0	0	0	0	0	5:55 PM	0	0	0	0	0
Count Total	0	4	5	8	17	Count Total	0	0	0	2	2	Count Total	0	0	0	0	0
Peak Hour	0	2	3	3	8	Peak Hour	0	0	0	1	1	Peak Hour	0	0	0	0	0



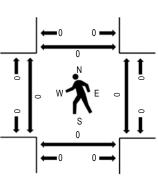
Location: 5 NW HILL RD & NW FOX RIDGE RD PM Date: Thursday, June 1, 2023 Peak Hour: 04:35 PM - 05:35 PM

Peak 15-Minutes: 05:20 PM - 05:35 PM

Peak Hour



Heavy Vehicles 3 6 I Î 0 ω 0 0 ٥ 0 0 0 0 0 б 0 3 6



Pedestrians

Note: Total study counts contained in parentheses.

		HV%	PHF
EB		0.0%	0.54
WE	3	0.0%	0.00
NB		2.2%	0.87
SB		1.0%	0.88
All		1.5%	0.91

Traffic Counts - Motorized Vehicles

Later at	N		RIDGE R	D	Ν			RD			ILL RD				LL RD			
Interval Start Time	U-Turn	Left	oound Thru	Right	U-Turn	Left	bound Thru	Right	U-Turn	Left	bound Thru	Right	U-Turn	Left	bound Thru	Right	Total	Rolling Hour
				0				0				0						
4:00 PM	0	0	0	0	0	0	0	0	0	0	23	0	0	0	14	0	37	552
4:05 PM	0	0	0	0	0	0	0	0	0	0	23	0	0	0	21	0	44	566
4:10 PM	0	0	0	0	0	0	0	0	0	0	18	0	0	0	30	0	48	572
4:15 PM	0	0	0	0	0	0	0	0	0	0	21	0	0	0	23	1	45	569
4:20 PM	0	0	0	0	0	0	0	0	0	0	20	0	0	0	31	0	51	570
4:25 PM	0	1	0	0	0	0	0	0	0	0	20	0	0	0	16	1	38	576
4:30 PM	0	0	0	2	0	0	0	0	0	0	18	0	0	0	28	1	49	593
4:35 PM	0	0	0	1	0	0	0	0	0	0	22	0	0	0	26	0	49	59
4:40 PM	0	1	0	0	0	0	0	0	0	0	21	0	0	0	27	1	50	588
4:45 PM	0	1	0	0	0	0	0	0	0	0	19	0	0	0	22	1	43	57
4:50 PM	0	0	0	0	0	0	0	0	0	0	31	0	0	0	14	1	46	57
4:55 PM	0	1	0	0	0	0	0	0	0	2	20	0	0	0	29	0	52	56
5:00 PM	0	1	0	1	0	0	0	0	0	0	25	0	0	0	23	1	51	55
5:05 PM	0	0	0	0	0	0	0	0	0	1	17	0	0	0	31	1	50	
5:10 PM	0	0	0	0	0	0	0	0	0	1	20	0	0	0	23	1	45	
5:15 PM	0	0	0	0	0	0	0	0	0	0	24	0	0	0	21	1	46	
5:20 PM	0	2	0	1	0	0	0	0	0	0	23	0	0	0	30	1	57	
5:25 PM	0	1	0	1	0	0	0	0	0	0	25	0	0	0	27	1	55	
5:30 PM	0	0	0	1	0	0	0	0	0	0	21	0	0	0	29	0	51	
5:35 PM	0	1	0	0	0	0	0	0	0	1	21	0	0	0	19	0	42	
5:40 PM	0	0	0	0	0	0	0	0	0	1	20	0	0	0	19	0	40	
5:45 PM	0	0	0	2	0	0	0	0	0	0	15	0	0	0	21	0	38	
5:50 PM	0	0	0	0	0	0	0	0	0	0	13	0	0	0	25	2	40	
5:55 PM	0	1	0	1	0	0	0	0	0	0	13	0	0	0	20	0	35	
Count Total	0	10	0	10	0	0	0	0	0	6	493	0	0	0	569	14	1,102	_
Peak Hour	0	7	0	5	0	0	0	0	0	4	268	0	0	0	302	9	595	;

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles on Crosswalk Heavy Vehicles Bicycles on Roadway Pedestrians/Bicycles on Crosswalk Interval Interval Interva EB Start Time EΒ NB WB SB Total Start Time EΒ NB WB SB Start Time NB WB SB Total Total 4:00 PM 4:00 PM 4:00 PM 4:05 PM 4:05 PM 4:05 PM 4:10 PM 4:10 PM 4:10 PM 4:15 PM 4:15 PM 4:15 PM 4:20 PM 4:20 PM 4:20 PM 4:25 PM 4:25 PM 4:25 PM 4:30 PM 4:30 PM 4:30 PM 4:35 PM 4:35 PM 4:35 PM 4:40 PM 4:40 PM 4:40 PM 4:45 PM 4:45 PM 4:45 PM 4:50 PM 4:50 PM 4:50 PM 4:55 PM 4:55 PM 4:55 PM 5:00 PM 5:00 PM 5:00 PM 5:05 PM 5:05 PM 5:05 PM 5:10 PM 5:10 PM 5:10 PM 5:15 PM 5:15 PM 5:15 PM 5:20 PM 5:20 PM 5:20 PM 5:25 PM 5:25 PM 5:25 PM 5:30 PM 5:30 PM 5:30 PM 5:35 PM 5:35 PM 5:35 PM 5:40 PM 5:40 PM 5:40 PM 5:45 PM 5:45 PM 5:45 PM 5:50 PM 5:50 PM 5:50 PM 5:55 PM 5:55 PM 5:55 PM Count Total 20 Count Total 1 Count Total Peak Hour 9 Peak Hour 1 Peak Hour

LOS DESCRIPTION

FOX RIDGE ROAD AREA PLAN • TRAFFIC ANALYSIS • NOVEMBER 2023

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TRAFFIC LEVELS OF SERVICE

Analysis of traffic volumes is useful in understanding the general nature of traffic in an area, but by itself indicates neither the ability of the street network to carry additional traffic nor the quality of service afforded by the street facilities. For this, the concept of level of service has been developed to subjectively describe traffic performance. Level of service can be measured at intersections and along key roadway segments.

Levels of service categories are similar to report card ratings for traffic performance. Intersections are typically the controlling bottlenecks of traffic flow and the ability of a roadway system to carry traffic efficiently is generally diminished in their vicinities. Levels of Service A, B and C indicate conditions where traffic moves without significant delays over periods of peak travel demand. Level of service D and E are progressively worse peak hour operating conditions and F conditions represent where demand exceeds the capacity of an intersection. Most urban communities set level of service D as the minimum acceptable level of service for peak hour operation and plan for level of service C or better for all other times of the day. The Highway Capacity Manual provides level of service calculation methodology for both intersections and arterials¹. The following two sections provide interpretations of the analysis approaches.

¹ 2000 Highway Capacity Manual, Transportation Research Board, Washington D.C., 2000, Chapter 16 and 17.

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UNSIGNALIZED INTERSECTIONS (Two-Way Stop Controlled)

Unsignalized intersection level of service is reported for the major street and minor street (generally, left turn movements). The method assesses available and critical gaps in the traffic stream which make it possible for side street traffic to enter the main street flow. The 2010 Highway Capacity Manual describes the detailed methodology. It is not unusual for an intersection to experience level of service E or F conditions for the minor street left turn movement. It should be understood that, often, a poor level of service is experienced by only a few vehicles and the intersection as a whole operates acceptably.

Unsignalized intersection levels of service are described in the following table.

Control Delay	LOS by Volume-to	-Capacity Ratio
(s/vehicle)	$v/c \leq 1.0$	v/c > 1.0
0-10	А	F
>10-15	В	F
>15-25	С	F
>25-35	D	F
>35-50	Е	F
>50	F	F

Level-of-Service Criteria: Automobile Mode

Note: The LOS criteria apply to each lane on a given approach and to each approach on the minor street. LOS is not calculated for major-street approaches or for the intersection as a whole

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SIGNALIZED INTERSECTIONS

For signalized intersections, level of service is evaluated based upon average vehicle delay experienced by vehicles entering an intersection. Control delay (or signal delay) includes initial deceleration delay, queue move-up time, stopped delay, and final acceleration delay. In previous versions of this chapter of the HCM (1994 and earlier), delay included only stopped delay. As delay increases, the level of service decreases. Calculations for signalized and unsignalized intersections are different due to the variation in traffic control. The 2000 Highway Capacity Manual provides the basis for these calculations.

Level of		
Service	Delay (secs.)	Description
А	<10.00	Free Flow/Insignificant Delays: No approach phase is fully utilized by traffic and no vehicle waits longer than one red indication. Most vehicles do not stop at all. Progression is extremely favorable and most vehicles arrive during the green phase.
В	10.1-20.0	Stable Operation/Minimal Delays: An occasional approach phase is fully utilized. Many drivers begin to feel somewhat restricted within platoons of vehicles. This level generally occurs with good progression, short cycle lengths, or both.
С	20.1-35.0	Stable Operation/Acceptable Delays: Major approach phases fully utilized. Most drivers feel somewhat restricted. Higher delays may result from fair progression, longer cycle lengths, or both. Individual cycle failures may begin to appear at this level, and the number of vehicles stopping is significant.
D	35.1-55.0	Approaching Unstable/Tolerable Delays: The influence of congestion becomes more noticeable. Drivers may have to wait through more than one red signal indication. Longer delays may result from some combination of unfavorable progression, long cycle lengths, or high v/c ratios. The proportion of vehicles not stopping declines, and individual cycle failures are noticeable.
E	55.1-80.0	Unstable Operation/Significant Delays: Volumes at or near capacity. Vehicles may wait though several signal cycles. Long queues form upstream from intersection. These high delay values generally indicate poor progression, long cycle lengths, and high v/c ratios. Individual cycle failures are a frequent occurrence.
F	>80.0	Forced Flow/Excessive Delays: Represents jammed conditions. Queues may block upstream intersections. This level occurs when arrival flow rates exceed intersection capacity, and is considered to be unacceptable to most drivers. Poor progression, long cycle lengths, and v/c ratios approaching 1.0 may contribute to these high delay levels.

Source: 2000 Highway Capacity Manual, Transportation Research Board, Washington D.C.

EXISTING 2023 HCM REPORTS

DRAFT

W Site: 1 [Hill Rd at Baker Creek Rd - AM (Site Folder: General)]

Output produced by SIDRA INTERSECTION Version: 9.1.2.202

Existing Year 2023 Scenario AM Peak Hour Site Category: Existing Design Roundabout

Vehi	cle Mo	ovement	t Performa	nce									
Mov ID	Turn	Mov Class		Arrival Flows [Total HV] veh/h %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% B Que [Veh. veh		Prop. Que	Eff. Stop Rate	Aver. No. of Cycles	Aver. Speed mph
South	: Hill F	۲d											
3	L2	All MCs	53 4.0	53 4.0	0.251	5.6	LOS A	1.3	32.3	0.37	0.20	0.37	34.5
8	T1	All MCs	5 0.0	5 0.0	0.251	5.3	LOS A	1.3	32.3	0.37	0.20	0.37	36.0
18	R2	All MCs	226 2.0	226 2.0	0.251	5.4	LOS A	1.3	32.3	0.37	0.20	0.37	35.3
Appro	bach		284 2.3	284 2.3	0.251	5.4	LOS A	1.3	32.3	0.37	0.20	0.37	35.2
East:	Baker	Creek Ro	d										
1	L2	All MCs	111 2.0	111 2.0	0.151	3.7	LOS A	0.7	18.0	0.19	0.07	0.19	33.9
6	T1	All MCs	59 28.0	59 28.0	0.151	5.4	LOS A	0.7	18.0	0.19	0.07	0.19	31.8
16	R2	All MCs	6 40.0	6 40.0	0.151	6.2	LOS A	0.7	18.0	0.19	0.07	0.19	30.1
Appro	bach		175 12.0	175 12.0	0.151	4.3	LOS A	0.7	18.0	0.19	0.07	0.19	33.1
North	: Hill R	Rd											
7	L2	All MCs	1 0.0	1 0.0	0.007	3.4	LOS A	0.0	0.7	0.36	0.18	0.36	36.4
4	T1	All MCs	5 0.0	5 0.0	0.007	3.4	LOS A	0.0	0.7	0.36	0.18	0.36	37.3
14	R2	All MCs	1 0.0	1 0.0	0.007	3.4	LOS A	0.0	0.7	0.36	0.18	0.36	36.9
Appro	bach		7 0.0	7 0.0	0.007	3.4	LOS A	0.0	0.7	0.36	0.18	0.36	37.1
West	Bake	r Creek R	d										
5	L2	All MCs	1 0.0	1 0.0	0.202	4.5	LOS A	1.0	25.2	0.29	0.14	0.29	36.2
2	T1	All MCs	161 4.0	161 4.0	0.202	4.8	LOS A	1.0	25.2	0.29	0.14	0.29	36.5
12	R2	All MCs	76 2.0	76 2.0	0.202	4.7	LOS A	1.0	25.2	0.29	0.14	0.29	36.4
Appro	bach		239 3.3	239 3.3	0.202	4.8	LOS A	1.0	25.2	0.29	0.14	0.29	36.4
All Ve	hicles		705 5.1	705 5.1	0.251	4.9	LOS A	1.3	32.3	0.30	0.15	0.30	35.0

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Options tab).

Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6). Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Stopline Delay: Geometric Delay is not included).

Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.

Gap-Acceptance Capacity Formula: Siegloch M1 implied by US HCM 6 Roundabout Capacity Model.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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Project: S:\Projects\2023\23041-000 (McMinnville Fox Ridge Area Plan TPR)\Analysis\SIDRA\Fox Ridge Road_Rounabout Analysis.sip9

DRAFT

W Site: 2 [Hill Rd at Wallace Rd - AM (Site Folder: General)]

Output produced by SIDRA INTERSECTION Version: 9.1.2.202

Existing Year 2023 Scenario AM Peak Hour Site Category: Existing Design Roundabout

Vehic	cle Mo	ovement	Perfo	rma	nce										
Mov ID	Turn	Mov Class		lows HV]		rival lows HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% B Que [Veh. veh	ack Of eue Dist] ft	Prop. Que	Eff. Stop Rate	Aver. No. of Cycles	Aver. Speed mph
South	: Hill F	Rd													
8	T1	All MCs	259	2.0	259	2.0	0.294	6.2	LOS A	1.5	38.5	0.45	0.27	0.45	32.7
18	R2	All MCs	55	2.0	55	2.0	0.294	6.2	LOS A	1.5	38.5	0.45	0.27	0.45	26.1
Appro	ach		314	2.0	314	2.0	0.294	6.2	LOS A	1.5	38.5	0.45	0.27	0.45	31.4
East:	Walla	ce Rd													
1	L2	All MCs	38	3.0	38	3.0	0.063	4.0	LOS A	0.3	6.6	0.39	0.25	0.39	25.7
16	R2	All MCs	25	10.0	25	10.0	0.063	4.6	LOS A	0.3	6.6	0.39	0.25	0.39	26.9
Appro	ach		63	5.8	63	5.8	0.063	4.2	LOS A	0.3	6.6	0.39	0.25	0.39	26.2
North:	Hill F	Rd													
7	L2	All MCs	219	4.0	219	4.0	0.198	4.4	LOS A	1.0	25.4	0.16	0.05	0.16	27.0
4	T1	All MCs	35	3.0	35	3.0	0.198	4.3	LOS A	1.0	25.4	0.16	0.05	0.16	31.6
Appro	ach		254	3.9	254	3.9	0.198	4.3	LOS A	1.0	25.4	0.16	0.05	0.16	27.6
All Ve	hicles		630	3.1	630	3.1	0.294	5.2	LOS A	1.5	38.5	0.32	0.18	0.32	29.1

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Options tab).

Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Stopline Delay: Geometric Delay is not included).

Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.

Gap-Acceptance Capacity Formula: Siegloch M1 implied by US HCM 6 Roundabout Capacity Model.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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Project: S:\Projects\2023\23041-000 (McMinnville Fox Ridge Area Plan TPR)\Analysis\SIDRA\Fox Ridge Road_Rounabout Analysis.sip9

Intersection

Int Delay, s/veh	0.4						
Movement	EBL	EBR	NBL	NBT	SBT	SBR	2
Lane Configurations	Y		٢	1	f,		
Traffic Vol, veh/h	10	3	3	239	195	3	5
Future Vol, veh/h	10	3	3	239	195	3	5
Conflicting Peds, #/hr	5	0	3	0	0	3	6
Sign Control	Stop	Stop	Free	Free	Free	Free)
RT Channelized	-	None	-	None	-	None	;
Storage Length	0	-	200	-	-	-	•
Veh in Median Storage,	# 0	-	-	0	0	-	•
Grade, %	0	-	-	0	0	-	
Peak Hour Factor	86	86	86	86	86	86	j
Heavy Vehicles, %	0	0	0	2	4	0)
Mvmt Flow	12	3	3	278	227	3	5

Major/Minor	Minor2	N	Major1	Maj	or2	
Conflicting Flow All	521	232	233	0	-	0
Stage 1	232	-	-	-	-	-
Stage 2	289	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	519	812	1346	-	-	-
Stage 1	811	-	-	-	-	-
Stage 2	765	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	515	810	1342	-	-	-
Mov Cap-2 Maneuver	515	-	-	-	-	-
Stage 1	807	-	-	-	-	-
Stage 2	763	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	11.6	0.1	0
HCM LOS	В		

Minor Lane/Major Mvmt	NBL	NBT EBLn1	SBT	SBR
Capacity (veh/h)	1342	- 562	-	-
HCM Lane V/C Ratio	0.003	- 0.027	-	-
HCM Control Delay (s)	7.7	- 11.6	-	-
HCM Lane LOS	А	- B	-	-
HCM 95th %tile Q(veh)	0	- 0.1	-	-

HCM 6th AWSC 4: Hill Rd & 2nd St

Intersection Delay, s/veh 13.4 Intersection LOS B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		د	1		\$			4		٢	f,	
Traffic Vol, veh/h	52	131	21	37	61	58	21	115	85	83	97	29
Future Vol, veh/h	52	131	21	37	61	58	21	115	85	83	97	29
Peak Hour Factor	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
Heavy Vehicles, %	2	5	10	8	3	2	10	2	5	0	5	3
Mvmt Flow	63	160	26	45	74	71	26	140	104	101	118	35
Number of Lanes	0	1	1	0	1	0	0	1	0	1	1	0
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	1			2			2			1		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	2			1			2			1		
Conflicting Approach Right	NB			SB			WB			EB		
Conflicting Lanes Right	1			2			1			2		
HCM Control Delay	13.6			13.2			15.2			11.5		
HCM LOS	В			В			С			В		

Lane	NBLn1	EBLn1	EBLn2	WBLn1	SBLn1	SBLn2
Vol Left, %	10%	28%	0%	24%	100%	0%
Vol Thru, %	52%	72%	0%	39%	0%	77%
Vol Right, %	38%	0%	100%	37%	0%	23%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	221	183	21	156	83	126
LT Vol	21	52	0	37	83	0
Through Vol	115	131	0	61	0	97
RT Vol	85	0	21	58	0	29
Lane Flow Rate	270	223	26	190	101	154
Geometry Grp	6	7	7	6	7	7
Degree of Util (X)	0.477	0.413	0.042	0.349	0.195	0.27
Departure Headway (Hd)	6.372	6.656	5.851	6.609	6.918	6.331
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Сар	563	538	608	540	516	564
Service Time	4.448	4.434	3.628	4.695	4.698	4.112
HCM Lane V/C Ratio	0.48	0.414	0.043	0.352	0.196	0.273
HCM Control Delay	15.2	14.1	8.9	13.2	11.4	11.5
HCM Lane LOS	С	В	А	В	В	В
HCM 95th-tile Q	2.6	2	0.1	1.6	0.7	1.1

Intersection

Int Delay, s/veh	3.5						
Movement	WBL	WBR	NBT	NBR	SBL	SBT	
Lane Configurations	Y		ţ,			ŧ	1
Traffic Vol, veh/h	4	72	108	3	83	123	,
Future Vol, veh/h	4	72	108	3	83	123)
Conflicting Peds, #/hr	0	0	0	1	1	0	1
Sign Control	Stop	Stop	Free	Free	Free	Free	;
RT Channelized	-	None	-	None	-	None	,
Storage Length	0	-	-	-	-	-	
Veh in Median Storage	, # 0	-	0	-	-	0	J
Grade, %	0	-	0	-	-	0)
Peak Hour Factor	80	80	80	80	80	80	l
Heavy Vehicles, %	0	8	2	33	6	1	
Mvmt Flow	5	90	135	4	104	154	

Major/Minor	Minor1	N	1ajor1	Ν	/lajor2	
Conflicting Flow All	500	138	0	0	140	0
Stage 1	138	-	-	-	-	-
Stage 2	362	-	-	-	-	-
Critical Hdwy	6.4	6.28	-	-	4.16	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.372	-	-	2.254	-
Pot Cap-1 Maneuver	534	895	-	-	1419	-
Stage 1	894	-	-	-	-	-
Stage 2	709	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	491	894	-	-	1418	-
Mov Cap-2 Maneuver	491	-	-	-	-	-
Stage 1	893	-	-	-	-	-
Stage 2	652	-	-	-	-	-
Approach	WB		NB		SB	
	0.7		•		0.4	

Approach	VVB	NB	SB	
HCM Control Delay, s	9.7	0	3.1	
HCM LOS	А			

Minor Lane/Major Mvmt	NBT	NBRV	VBLn1	SBL	SBT	
Capacity (veh/h)	-	-	857	1418	-	
HCM Lane V/C Ratio	-	-	0.111	0.073	-	
HCM Control Delay (s)	-	-	9.7	7.7	0	
HCM Lane LOS	-	-	Α	А	A	
HCM 95th %tile Q(veh)	-	-	0.4	0.2	-	

DRAFT

W Site: 1 [Hill Rd at Baker Creek Rd - PM (Site Folder: General)]

Output produced by SIDRA INTERSECTION Version: 9.1.2.202

Existing Year 2023 Scenario PM Peak Hour Site Category: Existing Design Roundabout

Vehi	cle Mo	ovement	Perfo	rma	nce										
Mov	Turn	Mov	Dem			rival	Deg.	Aver.	Level of		ack Of	Prop.	Eff.	Aver.	Aver.
ID		Class		lows HV/1	۲۱ Total]	ows HV/1	Satn	Delay	Service	Que [Veh.	eue Dist]	Que	Stop Rate	No. of Cycles	Speed
			veh/h		veh/h	%	v/c	sec		veh	ft				mph
South	: Hill F	۶d													
3	L2	All MCs	87	4.0	87	4.0	0.210	4.8	LOS A	1.0	26.7	0.26	0.11	0.26	34.5
8	T1	All MCs	1	0.0	1	0.0	0.210	4.5	LOS A	1.0	26.7	0.26	0.11	0.26	35.9
18	R2	All MCs	169	2.0	169	2.0	0.210	4.7	LOS A	1.0	26.7	0.26	0.11	0.26	35.3
Appro	bach		257	2.7	257	2.7	0.210	4.7	LOS A	1.0	26.7	0.26	0.11	0.26	35.0
East:	Baker	Creek Ro	ł												
1	L2	All MCs	212	2.0	212	2.0	0.287	5.4	LOS A	1.6	40.0	0.28	0.12	0.28	33.7
6	T1	All MCs	140	2.0	140	2.0	0.287	5.4	LOS A	1.6	40.0	0.28	0.12	0.28	34.5
16	R2	All MCs	1	0.0	1	0.0	0.287	5.3	LOS A	1.6	40.0	0.28	0.12	0.28	34.4
Appro	bach		353	2.0	353	2.0	0.287	5.4	LOS A	1.6	40.0	0.28	0.12	0.28	34.0
North	: Hill R	d													
7	L2	All MCs	6	0.0	6	0.0	0.012	4.2	LOS A	0.0	1.2	0.48	0.32	0.48	34.6
4	T1	All MCs	3	0.0	3	0.0	0.012	4.2	LOS A	0.0	1.2	0.48	0.32	0.48	35.4
14	R2	All MCs	1	0.0	1	0.0	0.012	4.2	LOS A	0.0	1.2	0.48	0.32	0.48	35.0
Appro	bach		10	0.0	10	0.0	0.012	4.2	LOS A	0.0	1.2	0.48	0.32	0.48	34.8
West:	Baker	r Creek R	d												
5	L2	All MCs	1	0.0	1	0.0	0.166	4.6	LOS A	0.8	19.2	0.39	0.24	0.39	36.1
2	T1	All MCs	82	3.0	82	3.0	0.166	4.9	LOS A	0.8	19.2	0.39	0.24	0.39	36.5
12	R2	All MCs	94	2.0	94	2.0	0.166	4.8	LOS A	0.8	19.2	0.39	0.24	0.39	36.3
Appro	bach		177	2.5	177	2.5	0.166	4.8	LOS A	0.8	19.2	0.39	0.24	0.39	36.4
All Ve	hicles		797	2.3	797	2.3	0.287	5.0	LOS A	1.6	40.0	0.30	0.15	0.30	34.8

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Options tab).

Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6). Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Stopline Delay: Geometric Delay is not included).

Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.

Gap-Acceptance Capacity Formula: Siegloch M1 implied by US HCM 6 Roundabout Capacity Model.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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Project: S:\Projects\2023\23041-000 (McMinnville Fox Ridge Area Plan TPR)\Analysis\SIDRA\Fox Ridge Road_Rounabout Analysis.sip9

DRAFT

W Site: 2 [Hill Rd at Wallace Rd - PM (Site Folder: General)]

Output produced by SIDRA INTERSECTION Version: 9.1.2.202

Existing Year 2023 Scenario PM Peak Hour Site Category: Existing Design Roundabout

Vehic	le Mo	ovement	t Perfo	rma	nce										
Mov ID	Turn	Mov Class		ows HV]		rival ows HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% B Que [Veh. veh	ack Of eue Dist] ft	Prop. Que	Eff. Stop Rate	Aver. No. of Cycles	Aver. Speed mph
South	: Hill F	Rd													
8	T1	All MCs	267	1.0	267	1.0	0.234	4.5	LOS A	1.2	31.4	0.16	0.05	0.16	33.7
18	R2	All MCs	41	0.0	41	0.0	0.234	4.5	LOS A	1.2	31.4	0.16	0.05	0.16	26.7
Appro	ach		308	0.9	308	0.9	0.234	4.5	LOS A	1.2	31.4	0.16	0.05	0.16	32.5
East:	Walla	ce Rd													
1	L2	All MCs	53	0.0	53	0.0	0.080	4.0	LOS A	0.3	8.5	0.40	0.26	0.40	25.6
16	R2	All MCs	29	8.0	29	8.0	0.080	4.7	LOS A	0.3	8.5	0.40	0.26	0.40	27.0
Appro	ach		81	2.8	81	2.8	0.080	4.3	LOS A	0.3	8.5	0.40	0.26	0.40	26.1
North:	Hill R	Rd													
7	L2	All MCs	34	7.0	34	7.0	0.258	5.3	LOS A	1.4	35.4	0.20	0.07	0.20	28.0
4	T1	All MCs	298	1.0	298	1.0	0.258	4.9	LOS A	1.4	35.4	0.20	0.07	0.20	33.2
Appro	ach		332	1.6	332	1.6	0.258	4.9	LOS A	1.4	35.4	0.20	0.07	0.20	32.6
All Ve	hicles		721	1.4	721	1.4	0.258	4.7	LOS A	1.4	35.4	0.20	0.08	0.20	31.7

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Options tab).

Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Stopline Delay: Geometric Delay is not included).

Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.

Gap-Acceptance Capacity Formula: Siegloch M1 implied by US HCM 6 Roundabout Capacity Model.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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Project: S:\Projects\2023\23041-000 (McMinnville Fox Ridge Area Plan TPR)\Analysis\SIDRA\Fox Ridge Road_Rounabout Analysis.sip9

Intersection

Int Delay, s/veh	0.3						
Movement	EBL	EBR	NBL	NBT	SBT	SBR	ł
Lane Configurations	Y		٦	1	ţ,		
Traffic Vol, veh/h	7	5	4	268	302	9)
Future Vol, veh/h	7	5	4	268	302	9)
Conflicting Peds, #/hr	0	0	0	0	0	0)
Sign Control	Stop	Stop	Free	Free	Free	Free	÷
RT Channelized	-	None	-	None	-	None	÷
Storage Length	0	-	200	-	-	-	-
Veh in Median Storage,	# 0	-	-	0	0	-	-
Grade, %	0	-	-	0	0	-	-
Peak Hour Factor	91	91	91	91	91	91	Í
Heavy Vehicles, %	0	0	0	2	1	0)
Mvmt Flow	8	5	4	295	332	10)

Major/Minor	Minor2	Ν	Major1	Ма	ijor2	
Conflicting Flow All	640	337	342	0	-	0
Stage 1	337	-	-	-	-	-
Stage 2	303	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	443	710	1228	-	-	-
Stage 1	728	-	-	-	-	-
Stage 2	754	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver		710	1228	-	-	-
Mov Cap-2 Maneuver	r 442	-	-	-	-	-
Stage 1	726	-	-	-	-	-
Stage 2	754	-	-	-	-	-
					-	

Approach	EB	NB	SB
HCM Control Delay, s	12	0.1	0
HCM LOS	В		

Minor Lane/Major Mvmt	NBL	NBT E	BLn1	SBT	SBR
Capacity (veh/h)	1228	-	524	-	-
HCM Lane V/C Ratio	0.004	- (0.025	-	-
HCM Control Delay (s)	7.9	-	12	-	-
HCM Lane LOS	А	-	В	-	-
HCM 95th %tile Q(veh)	0	-	0.1	-	-

HCM 6th AWSC 4: Hill Rd & 2nd St

Intersection Delay, s/veh 15 Intersection LOS B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		ŧ	7		\$			4		7	f,	
Traffic Vol, veh/h	43	81	11	61	116	82	19	150	47	68	160	65
Future Vol, veh/h	43	81	11	61	116	82	19	150	47	68	160	65
Peak Hour Factor	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
Heavy Vehicles, %	0	1	0	3	1	1	0	3	4	1	2	0
Mvmt Flow	49	93	13	70	133	94	22	172	54	78	184	75
Number of Lanes	0	1	1	0	1	0	0	1	0	1	1	0
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	1			2			2			1		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	2			1			2			1		
Conflicting Approach Right	NB			SB			WB			EB		
Conflicting Lanes Right	1			2			1			2		
HCM Control Delay	12.5			17.5			15.2			13.7		
HCM LOS	В			С			С			В		

Lane	NBLn1	EBLn1	EBLn2	WBLn1	SBLn1	SBLn2
Vol Left, %	9%	35%	0%	24%	100%	0%
Vol Thru, %	69%	65%	0%	45%	0%	71%
Vol Right, %	22%	0%	100%	32%	0%	29%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	216	124	11	259	68	225
LT Vol	19	43	0	61	68	0
Through Vol	150	81	0	116	0	160
RT Vol	47	0	11	82	0	65
Lane Flow Rate	248	143	13	298	78	259
Geometry Grp	6	7	7	6	7	7
Degree of Util (X)	0.458	0.284	0.022	0.55	0.154	0.46
Departure Headway (Hd)	6.647	7.173	6.297	6.645	7.106	6.407
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Сар	541	500	568	545	506	564
Service Time	4.688	4.918	4.041	4.66	4.827	4.129
HCM Lane V/C Ratio	0.458	0.286	0.023	0.547	0.154	0.459
HCM Control Delay	15.2	12.8	9.2	17.5	11.1	14.5
HCM Lane LOS	С	В	А	С	В	В
HCM 95th-tile Q	2.4	1.2	0.1	3.3	0.5	2.4

Intersection

Int Delay, s/veh	4.2						
Movement	WBL	WBR	NBT	NBR	SBL	SBT	•
Lane Configurations	Y		t,			ŧ	
Traffic Vol, veh/h	6	113	129	3	89	105)
Future Vol, veh/h	6	113	129	3	89	105	j –
Conflicting Peds, #/hr	0	0	0	0	0	0)
Sign Control	Stop	Stop	Free	Free	Free	Free)
RT Channelized	-	None	-	None	-	None	ļ
Storage Length	0	-	-	-	-	-	
Veh in Median Storage	, # 0	-	0	-	-	0)
Grade, %	0	-	0	-	-	0)
Peak Hour Factor	90	90	90	90	90	90)
Heavy Vehicles, %	17	2	2	0	2	1	
Mvmt Flow	7	126	143	3	99	117	1

Major/Minor	Minor1	Ν	lajor1	Ν	1ajor2	
Conflicting Flow All	460	145	0	0	146	0
Stage 1	145	-	-	-	-	-
Stage 2	315	-	-	-	-	-
Critical Hdwy	6.57	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.57	-	-	-	-	-
Critical Hdwy Stg 2	5.57	-	-	-	-	-
Follow-up Hdwy	3.653	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	533	902	-	-	1436	-
Stage 1	847	-	-	-	-	-
Stage 2	707	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	494	902	-	-	1436	-
Mov Cap-2 Maneuver	494	-	-	-	-	-
Stage 1	847	-	-	-	-	-
Stage 2	655	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	9.9		0		3.5	

HCM LOS А

Minor Lane/Major Mvmt	NBT	NBRW	'BLn1	SBL	SBT	
Capacity (veh/h)	-	-	866	1436	-	
HCM Lane V/C Ratio	-	-	0.153	0.069	-	
HCM Control Delay (s)	-	-	9.9	7.7	0	
HCM Lane LOS	-	-	Α	А	А	
HCM 95th %tile Q(veh)	-	-	0.5	0.2	-	

FUTURE BASELINE 2041 HCM REPORTS

FOX RIDGE ROAD AREA PLAN • TRAFFIC ANALYSIS • NOVEMBER 2023

V Site: 1 [Hill Rd at Baker Creek Rd - AM (Site Folder: Future Baseline 2041)]

Output produced by SIDRA INTERSECTION Version: 9.1.4.221

Future Year 2041 Baseline AM Peak Hour Site Category: Existing Design Roundabout

Vehic	cle Mo	ovement	t Perfo	rmai	nce										
Mov ID	Turn	Mov Class		lows HV]		rival ows HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% B Que [Veh. veh	ack Of eue Dist] ft	Prop. Que	Eff. Stop Rate	Aver. No. of Cycles	Aver. Speed mph
South	: Hill F	۶d													
3	L2	All MCs	83	4.0	83	4.0	0.331	7.3	LOS A	1.7	43.1	0.53	0.36	0.53	33.5
8	T1	All MCs	11	0.0	11	0.0	0.331	6.8	LOS A	1.7	43.1	0.53	0.36	0.53	34.8
18	R2	All MCs	228	2.0	228	2.0	0.331	7.1	LOS A	1.7	43.1	0.53	0.36	0.53	34.2
Appro	ach		322	2.4	322	2.4	0.331	7.1	LOS A	1.7	43.1	0.53	0.36	0.53	34.0
East:	Baker	Creek Ro	d												
1	L2	All MCs	178	2.0	178	2.0	0.257	4.9	LOS A	1.2	33.6	0.29	0.13	0.29	33.3
6	T1	All MCs	94 2	28.0	94 2	28.0	0.257	6.8	LOS A	1.2	33.6	0.29	0.13	0.29	31.3
16	R2	All MCs	11 4	40.0	11 4	40.0	0.257	7.8	LOS A	1.2	33.6	0.29	0.13	0.29	29.6
Appro	ach		283	12.2	283	12.2	0.257	5.6	LOS A	1.2	33.6	0.29	0.13	0.29	32.5
North	: Hill R	d													
7	L2	All MCs	33	0.0	33	0.0	0.054	4.4	LOS A	0.2	5.5	0.46	0.34	0.46	34.3
4	T1	All MCs	11	0.0	11	0.0	0.054	4.4	LOS A	0.2	5.5	0.46	0.34	0.46	35.1
14	R2	All MCs	6	0.0	6	0.0	0.054	4.4	LOS A	0.2	5.5	0.46	0.34	0.46	34.7
Appro	ach		50	0.0	50	0.0	0.054	4.4	LOS A	0.2	5.5	0.46	0.34	0.46	34.5
West:	Bake	r Creek R	d												
5	L2	All MCs	6	0.0	6	0.0	0.369	6.8	LOS A	2.0	52.2	0.48	0.29	0.48	34.8
2	T1	All MCs	261	4.0	261	4.0	0.369	7.2	LOS A	2.0	52.2	0.48	0.29	0.48	35.1
12	R2	All MCs	122	2.0	122	2.0	0.369	7.0	LOS A	2.0	52.2	0.48	0.29	0.48	35.0
Appro	ach		389	3.3	389	3.3	0.369	7.2	LOS A	2.0	52.2	0.48	0.29	0.48	35.1
All Ve	hicles		1044	5.3	1044	5.3	0.369	6.6	LOS A	2.0	52.2	0.44	0.27	0.44	34.0

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Options tab).

Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Stopline Delay: Geometric Delay is not included).

Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.

Gap-Acceptance Capacity Formula: Siegloch M1 implied by US HCM 6 Roundabout Capacity Model.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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Project: S:\Projects\2023\23041-000 (McMinnville Fox Ridge Area Plan TPR)\5_Analysis\SIDRA\Fox Ridge Road_Roundabout Analysis.sip9

Site: 2 [Hill Rd at Wallace Rd - AM (Site Folder: Future Baseline 2041)]

Output produced by SIDRA INTERSECTION Version: 9.1.4.221

Future Year 2041 Baseline AM Peak Hour Site Category: Existing Design Roundabout

Vehic	cle Mo	ovement	Perfo	rma	nce										
Mov ID	Turn	Mov Class		lows HV]		rival ows HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% Ba Que [Veh. veh		Prop. Que	Eff. Stop Rate	Aver. No. of Cycles	Aver. Speed mph
South	: Hill F	Rd													
3	L2	All MCs	167	1.0	167	1.0	0.439	7.5	LOS A	2.8	71.4	0.45	0.24	0.45	30.3
8	T1	All MCs	256	2.0	256	2.0	0.439	7.6	LOS A	2.8	71.4	0.45	0.24	0.45	31.8
18	R2	All MCs	83	2.0	83	2.0	0.439	7.6	LOS A	2.8	71.4	0.45	0.24	0.45	25.6
Appro	ach		506	1.7	506	1.7	0.439	7.6	LOS A	2.8	71.4	0.45	0.24	0.45	30.1
East:	Wallad	ce Rd													
1	L2	All MCs	56	3.0	56	3.0	0.200	6.6	LOS A	0.8	21.5	0.57	0.46	0.57	27.1
6	T1	All MCs	61	1.0	61	1.0	0.200	6.4	LOS A	0.8	21.5	0.57	0.46	0.57	28.7
16	R2	All MCs	39	10.0	39	10.0	0.200	7.7	LOS A	0.8	21.5	0.57	0.46	0.57	28.5
Appro	ach		156	4.0	156	4.0	0.200	6.8	LOS A	0.8	21.5	0.57	0.46	0.57	28.1
North	: Hill R	Rd													
7	L2	All MCs	56	4.0	56	4.0	0.406	8.2	LOS A	2.3	57.8	0.55	0.36	0.55	26.6
4	T1	All MCs	200	3.0	200	3.0	0.406	8.1	LOS A	2.3	57.8	0.55	0.36	0.55	31.2
14	R2	All MCs	150	1.0	150	1.0	0.406	7.8	LOS A	2.3	57.8	0.55	0.36	0.55	32.5
Appro	ach		406	2.4	406	2.4	0.406	8.0	LOS A	2.3	57.8	0.55	0.36	0.55	30.9
West:	Walla	ce Road													
5	L2	All MCs	78	1.0	78	1.0	0.181	5.4	LOS A	0.8	20.7	0.47	0.32	0.47	31.9
2	T1	All MCs	22	1.0	22	1.0	0.181	5.4	LOS A	0.8	20.7	0.47	0.32	0.47	32.5
12	R2	All MCs	78	1.0	78	1.0	0.181	5.4	LOS A	0.8	20.7	0.47	0.32	0.47	32.3
Appro	ach		178	1.0	178	1.0	0.181	5.4	LOS A	0.8	20.7	0.47	0.32	0.47	32.1
All Ve	hicles		1244	2.1	1244	2.1	0.439	7.3	LOS A	2.8	71.4	0.50	0.32	0.50	30.4

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Options tab).

Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Stopline Delay: Geometric Delay is not included).

Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.

Gap-Acceptance Capacity Formula: Siegloch M1 implied by US HCM 6 Roundabout Capacity Model.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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Project: S:\Projects\2023\23041-000 (McMinnville Fox Ridge Area Plan TPR)\5_Analysis\SIDRA\Fox Ridge Road_Roundabout Analysis.sip9

Intersection						
Int Delay, s/veh	0.4					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	۰¥		- ሽ	↑	4	
Traffic Vol, veh/h	15	5	5	410	315	5
Future Vol, veh/h	15	5	5	410	315	5
Conflicting Peds, #/hr	5	0	3	0	0	3
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	200	-	-	-
Veh in Median Storage,	,# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	0	0	0	2	4	0
Mvmt Flow	17	6	6	456	350	6

Major/Minor	Minor2	N	Najor1	Maj	or2	
Conflicting Flow All	829	356	359	0	-	0
Stage 1	356	-	-	-	-	-
Stage 2	473	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	343	693	1211	-	-	-
Stage 1	713	-	-	-	-	-
Stage 2	631	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuve		691	1208	-	-	-
Mov Cap-2 Maneuve	r 339	-	-	-	-	-
Stage 1	707	-	-	-	-	-
Stage 2	629	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	14.8	0.1	0
HCM LOS	В		

Minor Lane/Major Mvmt	NBL	NBT EBLn1	SBT	SBR
Capacity (veh/h)	1208	- 388	-	-
HCM Lane V/C Ratio	0.005	- 0.057	-	-
HCM Control Delay (s)	8	- 14.8	-	-
HCM Lane LOS	А	- B	-	-
HCM 95th %tile Q(veh)	0	- 0.2	-	-

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		÷	1		4			\$		٦.	et	
Traffic Vol, veh/h	90	225	35	65	105	100	35	200	145	145	145	50
Future Vol, veh/h	90	225	35	65	105	100	35	200	145	145	145	50
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles, %	2	5	10	8	3	2	10	2	5	0	5	3
Mvmt Flow	100	250	39	72	117	111	39	222	161	161	161	56
Number of Lanes	0	1	1	0	1	0	0	1	0	1	1	0
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	1			2			2			1		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	2			1			2			1		
Conflicting Approach Right	NB			SB			WB			EB		
Conflicting Lanes Right	1			2			1			2		
HCM Control Delay	43.9			36.9			84.3			20.5		
HCM LOS	E			E			F			С		

Lane	NBLn1	EBLn1	EBLn2	WBLn1	SBLn1	SBLn2
Vol Left, %	9%	29%	0%	24%	100%	0%
Vol Thru, %	53%	71%	0%	39%	0%	74%
Vol Right, %	38%	0%	100%	37%	0%	26%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	380	315	35	270	145	195
LT Vol	35	90	0	65	145	0
Through Vol	200	225	0	105	0	145
RT Vol	145	0	35	100	0	50
Lane Flow Rate	422	350	39	300	161	217
Geometry Grp	4b	5	5	4b	5	5
Degree of Util (X)	1.035	0.859	0.087	0.76	0.42	0.527
Departure Headway (Hd)	8.823	9.134	8.309	9.469	9.701	9.081
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Сар	414	399	434	384	374	399
Service Time	6.823	6.834	6.009	7.469	7.401	6.781
HCM Lane V/C Ratio	1.019	0.877	0.09	0.781	0.43	0.544
HCM Control Delay	84.3	47.5	11.8	36.9	19.2	21.5
HCM Lane LOS	F	E	В	E	С	С
HCM 95th-tile Q	13.5	8.3	0.3	6.2	2	3

6.9

Intersed	

Int Delay, s/veh

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		\$			\$			÷			\$		
Traffic Vol, veh/h	25	55	10	5	25	125	10	185	5	130	190	15	
Future Vol, veh/h	25	55	10	5	25	125	10	185	5	130	190	15	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	1	1	0	0	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
RT Channelized	-	-	None										
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-	
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90	
Heavy Vehicles, %	0	0	0	0	0	8	0	2	33	6	1	0	
Mvmt Flow	28	61	11	6	28	139	11	206	6	144	211	17	

Major/Minor	Minor2		Ν	1inor1		ľ	Major1		1	Major2			
Conflicting Flow All	823	743	220	776	748	210	228	0	0	213	0	0	
Stage 1	508	508	-	232	232	-	-	-	-	-	-	-	
Stage 2	315	235	-	544	516	-	-	-	-	-	-	-	
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.28	4.1	-	-	4.16	-	-	
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-	
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-	
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.372	2.2	-	-	2.254	-	-	
Pot Cap-1 Maneuver	295	346	825	317	343	815	1352	-	-	1334	-	-	
Stage 1	551	542	-	775	716	-	-	-	-	-	-	-	
Stage 2	700	714	-	527	538	-	-	-	-	-	-	-	
Platoon blocked, %								-	-		-	-	
Mov Cap-1 Maneuver	204	300	825	238	297	814	1352	-	-	1333	-	-	
Mov Cap-2 Maneuver	204	300	-	238	297	-	-	-	-	-	-	-	
Stage 1	546	475	-	767	709	-	-	-	-	-	-	-	
Stage 2	553	707	-	397	471	-	-	-	-	-	-	-	

Approach	EB	WB	NB	SB	
HCM Control Delay, s	24.5	13.4	0.4	3.1	
HCM LOS	С	В			

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1\	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1352	-	-	283	599	1333	-	-
HCM Lane V/C Ratio	0.008	-	-	0.353	0.288	0.108	-	-
HCM Control Delay (s)	7.7	0	-	24.5	13.4	8	0	-
HCM Lane LOS	А	А	-	С	В	А	А	-
HCM 95th %tile Q(veh)	0	-	-	1.5	1.2	0.4	-	-

V Site: 1 [Hill Rd at Baker Creek Rd - PM (Site Folder: Future Baseline 2041)]

Output produced by SIDRA INTERSECTION Version: 9.1.4.221

Future Year 2041 Baseline PM Peak Hour Site Category: NA

Roundabout

Vehicle Movement Performance															
Mov ID	Turn	Mov Class		lows HV]		rival lows HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% B Que [Veh. veh		Prop. Que	Eff. Stop Rate	Aver. No. of Cycles	Aver. Speed mph
South	: Hill F	Rd													
3	L2	All MCs	148	4.0	148	4.0	0.402	7.4	LOS A	2.4	61.2	0.45	0.25	0.45	33.2
8	T1	All MCs	10	0.0	10	0.0	0.402	7.0	LOS A	2.4	61.2	0.45	0.25	0.45	34.5
18	R2	All MCs	291	2.0	291	2.0	0.402	7.2	LOS A	2.4	61.2	0.45	0.25	0.45	33.9
Appro	bach		449	2.6	449	2.6	0.402	7.3	LOS A	2.4	61.2	0.45	0.25	0.45	33.7
East:	Baker	Creek Ro	ł												
1	L2	All MCs	367	2.0	367	2.0	0.561	9.7	LOS A	4.3	108.1	0.56	0.30	0.56	31.8
6	T1	All MCs	240	2.0	240	2.0	0.561	9.7	LOS A	4.3	108.1	0.56	0.30	0.56	32.5
16	R2	All MCs	31	0.0	31	0.0	0.561	9.5	LOS A	4.3	108.1	0.56	0.30	0.56	32.4
Appro	bach		638	1.9	638	1.9	0.561	9.7	LOS A	4.3	108.1	0.56	0.30	0.56	32.1
North	: Hill R	d													
7	L2	All MCs	26	0.0	26	0.0	0.073	6.6	LOS A	0.3	7.0	0.61	0.56	0.61	33.5
4	T1	All MCs	15	0.0	15	0.0	0.073	6.6	LOS A	0.3	7.0	0.61	0.56	0.61	34.3
14	R2	All MCs	5	0.0	5	0.0	0.073	6.6	LOS A	0.3	7.0	0.61	0.56	0.61	34.0
Appro	bach		46	0.0	46	0.0	0.073	6.6	LOS A	0.3	7.0	0.61	0.56	0.61	33.8
West:	Baker	⁻ Creek R	d												
5	L2	All MCs	5	0.0	5	0.0	0.356	7.8	LOS A	1.8	45.1	0.60	0.45	0.60	34.3
2	T1	All MCs	143	3.0	143	3.0	0.356	8.2	LOS A	1.8	45.1	0.60	0.45	0.60	34.7
12	R2	All MCs	163	2.0	163	2.0	0.356	8.1	LOS A	1.8	45.1	0.60	0.45	0.60	34.5
Appro	bach		311	2.4	311	2.4	0.356	8.1	LOS A	1.8	45.1	0.60	0.45	0.60	34.6
All Ve	hicles		1444	2.2	1444	2.2	0.561	8.5	LOS A	4.3	108.1	0.54	0.33	0.54	33.1

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Options tab).

Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Stopline Delay: Geometric Delay is not included).

Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.

Gap-Acceptance Capacity Formula: Siegloch M1 implied by US HCM 6 Roundabout Capacity Model.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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Project: S:\Projects\2023\23041-000 (McMinnville Fox Ridge Area Plan TPR)\5_Analysis\SIDRA\Fox Ridge Road_Roundabout Analysis.sip9

V Site: 2 [Hill Rd at Wallace Rd - PM (Site Folder: Future Baseline 2041)]

Output produced by SIDRA INTERSECTION Version: 9.1.4.221

Future Year 2041 Baseline PM Peak Hour Site Category: NA Roundabout

Vehicle Movement Performance															
Mov ID	Turn	Mov Class	Dem Fl [Total] veh/h	lows HV]	FI	rival lows HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% Ba Que [Veh. veh		Prop. Que	Eff. Stop Rate	Aver. No. of Cycles	Aver. Speed mph
South	: Hill F	۶d													
3	L2	All MCs	33	0.0	33	0.0	0.417	6.9	LOS A	2.7	68.6	0.37	0.17	0.37	30.9
8	T1	All MCs	407	1.0	407	1.0	0.417	7.0	LOS A	2.7	68.6	0.37	0.17	0.37	32.5
18	R2	All MCs	71	0.0	71	0.0	0.417	6.9	LOS A	2.7	68.6	0.37	0.17	0.37	25.9
Appro	bach		511	0.8	511	0.8	0.417	6.9	LOS A	2.7	68.6	0.37	0.17	0.37	31.3
East:	Wallac	ce Rd													
1	L2	All MCs	82	0.0	82	0.0	0.175	5.8	LOS A	0.7	18.8	0.55	0.43	0.55	25.5
6	T1	All MCs	11	0.0	11	0.0	0.175	5.8	LOS A	0.7	18.8	0.55	0.43	0.55	26.9
16	R2	All MCs	49	8.0	49	8.0	0.175	6.9	LOS A	0.7	18.8	0.55	0.43	0.55	26.9
Appro	bach		143	2.8	143	2.8	0.175	6.2	LOS A	0.7	18.8	0.55	0.43	0.55	26.1
North	: Hill R	d													
7	L2	All MCs	60	6.0	60	6.0	0.483	8.4	LOS A	3.4	86.1	0.43	0.21	0.43	26.9
4	T1	All MCs	478	1.0	478	1.0	0.483	8.0	LOS A	3.4	86.1	0.43	0.21	0.43	31.6
14	R2	All MCs	38	0.0	38	0.0	0.483	7.9	LOS A	3.4	86.1	0.43	0.21	0.43	32.9
Appro	bach		577	1.5	577	1.5	0.483	8.0	LOS A	3.4	86.1	0.43	0.21	0.43	31.1
West	Walla	ce Road													
5	L2	All MCs	33	0.0	33	0.0	0.121	6.2	LOS A	0.5	12.3	0.59	0.51	0.59	31.7
2	T1	All MCs	11	0.0	11	0.0	0.121	6.2	LOS A	0.5	12.3	0.59	0.51	0.59	32.3
12	R2	All MCs	44	0.0	44	0.0	0.121	6.2	LOS A	0.5	12.3	0.59	0.51	0.59	32.0
Appro	bach		88	0.0	88	0.0	0.121	6.2	LOS A	0.5	12.3	0.59	0.51	0.59	31.9
All Ve	hicles		1319	1.2	1319	1.2	0.483	7.3	LOS A	3.4	86.1	0.43	0.24	0.43	30.6

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Options tab).

Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Stopline Delay: Geometric Delay is not included).

Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.

Gap-Acceptance Capacity Formula: Siegloch M1 implied by US HCM 6 Roundabout Capacity Model.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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Project: S:\Projects\2023\23041-000 (McMinnville Fox Ridge Area Plan TPR)\5_Analysis\SIDRA\Fox Ridge Road_Roundabout Analysis.sip9

Intersection						
Int Delay, s/veh	0.4					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	۰¥		- ሽ	↑	4	
Traffic Vol, veh/h	10	10	5	460	520	15
Future Vol, veh/h	10	10	5	460	520	15
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	200	-	-	-
Veh in Median Storage	,# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	91	91	91	91	91	91
Heavy Vehicles, %	0	0	0	2	1	0
Mvmt Flow	11	11	5	505	571	16

Major/Minor	Minor2	Ν	/lajor1	Maj	or2		
Conflicting Flow All	1094	579	587	0	-	0	
Stage 1	579	-	-	-	-	-	
Stage 2	515	-	-	-	-	-	
Critical Hdwy	6.4	6.2	4.1	-	-	-	
Critical Hdwy Stg 1	5.4	-	-	-	-	-	
Critical Hdwy Stg 2	5.4	-	-	-	-	-	
Follow-up Hdwy	3.5	3.3	2.2	-	-	-	
Pot Cap-1 Maneuver	239	519	998	-	-	-	
Stage 1	564	-	-	-	-	-	
Stage 2	604	-	-	-	-	-	
Platoon blocked, %				-	-	-	
Mov Cap-1 Maneuver		519	998	-	-	-	
Mov Cap-2 Maneuver	238	-	-	-	-	-	
Stage 1	561	-	-	-	-	-	
Stage 2	604	-	-	-	-	-	

Approach	EB	NB	SB
HCM Control Delay, s	16.8	0.1	0
HCM LOS	С		

Minor Lane/Major Mvmt	NBL	NBT EBLn1	SBT	SBR
Capacity (veh/h)	998	- 326	-	-
HCM Lane V/C Ratio	0.006	- 0.067	-	-
HCM Control Delay (s)	8.6	- 16.8	-	-
HCM Lane LOS	А	- C	-	-
HCM 95th %tile Q(veh)	0	- 0.2	-	-

Intersection

Intersection Delay, s/veh Intersection LOS

s/veh 100.6

F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		÷	1		4			\$		٦.	ef 👘	
Traffic Vol, veh/h	75	140	20	105	200	140	35	260	80	115	275	110
Future Vol, veh/h	75	140	20	105	200	140	35	260	80	115	275	110
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles, %	0	1	0	3	1	1	0	3	4	1	2	0
Mvmt Flow	83	156	22	117	222	156	39	289	89	128	306	122
Number of Lanes	0	1	1	0	1	0	0	1	0	1	1	0
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	1			2			2			1		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	2			1			2			1		
Conflicting Approach Right	NB			SB			WB			EB		
Conflicting Lanes Right	1			2			1			2		
HCM Control Delay	30.5			167.6			99.1			75		
HCM LOS	D			F			F			F		

Lane	NBLn1	EBLn1	EBLn2	WBLn1	SBLn1	SBLn2
Vol Left, %	9%	35%	0%	24%	100%	0%
Vol Thru, %	69%	65%	0%	45%	0%	71%
Vol Right, %	21%	0%	100%	31%	0%	29%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	375	215	20	445	115	385
LT Vol	35	75	0	105	115	0
Through Vol	260	140	0	200	0	275
RT Vol	80	0	20	140	0	110
Lane Flow Rate	417	239	22	494	128	428
Geometry Grp	4b	5	5	4b	5	5
Degree of Util (X)	1.064	0.655	0.056	1.265	0.337	1.047
Departure Headway (Hd)	10.24	10.907	10.002	9.701	10.523	9.806
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Сар	358	334	360	381	344	372
Service Time	8.24	8.607	7.702	7.701	8.223	7.506
HCM Lane V/C Ratio	1.165	0.716	0.061	1.297	0.372	1.151
HCM Control Delay	99.1	32.1	13.3	167.6	18.5	91.9
HCM Lane LOS	F	D	В	F	С	F
HCM 95th-tile Q	13.3	4.4	0.2	20.8	1.5	13.1

7.9

Inter		

Int Delay, s/veh

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		\$			\$			\$			\$		
Traffic Vol, veh/h	20	35	5	10	50	145	10	170	5	155	180	30	
Future Vol, veh/h	20	35	5	10	50	145	10	170	5	155	180	30	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
RT Channelized	-	-	None										
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-	
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90	
Heavy Vehicles, %	0	0	0	17	0	2	0	2	0	2	1	0	
Mvmt Flow	22	39	6	11	56	161	11	189	6	172	200	33	

Major/Minor	Minor2			Vinor1		ľ	Major1		Ν	lajor2			
Conflicting Flow All	884	778	217	797	791	192	233	0	0	195	0	0	
Stage 1	561	561	-	214	214	-	-	-	-	-	-	-	
Stage 2	323	217	-	583	577	-	-	-	-	-	-	-	
Critical Hdwy	7.1	6.5	6.2	7.27	6.5	6.22	4.1	-	-	4.12	-	-	
Critical Hdwy Stg 1	6.1	5.5	-	6.27	5.5	-	-	-	-	-	-	-	
Critical Hdwy Stg 2	6.1	5.5	-	6.27	5.5	-	-	-	-	-	-	-	
Follow-up Hdwy	3.5	4	3.3	3.653	4	3.318	2.2	-	-	2.218	-	-	
Pot Cap-1 Maneuver	268	330	828	287	324	850	1346	-	-	1378	-	-	
Stage 1	516	513	-	755	729	-	-	-	-	-	-	-	
Stage 2	693	727	-	473	505	-	-	-	-	-	-	-	
Platoon blocked, %								-	-		-	-	
Mov Cap-1 Maneuver	r 163	280	828	226	275	850	1346	-	-	1378	-	-	
Mov Cap-2 Maneuver	r 163	280	-	226	275	-	-	-	-	-	-	-	
Stage 1	511	439	-	748	722	-	-	-	-	-	-	-	
Stage 2	514	720	-	367	432	-	-	-	-	-	-	-	

Approach	EB	WB	NB	SB	
HCM Control Delay, s	26.2	17.3	0.4	3.4	
HCM LOS	D	С			

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1V	VBLn1	SBL	SBT	SBR
Capacity (veh/h)	1346	-	-	236	517	1378	-	-
HCM Lane V/C Ratio	0.008	-	-	0.282	0.441	0.125	-	-
HCM Control Delay (s)	7.7	0	-	26.2	17.3	8	0	-
HCM Lane LOS	А	А	-	D	С	А	А	-
HCM 95th %tile Q(veh)	0	-	-	1.1	2.2	0.4	-	-

PREFERRED SCENARIO 2041 HCM REPORTS

FOX RIDGE ROAD AREA PLAN • TRAFFIC ANALYSIS • NOVEMBER 2023

V Site: 1 [Hill Rd at Baker Creek Rd - AM (Site Folder: Future Preferred Scenario 2044)]

Output produced by SIDRA INTERSECTION Version: 9.1.4.221

Future Year 2041 Preferred AM Peak Hour Site Category: Existing Design Roundabout

Vehi	cle Mo	ovement	Perfor	mar	nce										
Mov ID	Turn	Mov Class	Dema Flo [Total H veh/h	ows IV]	FI	rival ows HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% B Que [Veh. veh		Prop. Que	Eff. Stop Rate	Aver. No. of Cycles	Aver. Speed mph
South	: Hill F	٦d													
3	L2	All MCs	96	4.0	96	4.0	0.422	8.6	LOS A	2.4	60.2	0.58	0.39	0.58	32.9
8	T1	All MCs	11	0.0	11	0.0	0.422	8.1	LOS A	2.4	60.2	0.58	0.39	0.58	34.2
18	R2	All MCs	304	2.0	304	2.0	0.422	8.3	LOS A	2.4	60.2	0.58	0.39	0.58	33.6
Appro	bach		411	2.4	411	2.4	0.422	8.4	LOS A	2.4	60.2	0.58	0.39	0.58	33.5
East:	Baker	Creek Ro	d												
1	L2	All MCs	212	2.0	212	2.0	0.289	5.3	LOS A	1.4	39.2	0.32	0.15	0.32	33.1
6	T1	All MCs	94 2	8.0	94 2	28.0	0.289	7.3	LOS A	1.4	39.2	0.32	0.15	0.32	31.0
16	R2	All MCs	11 4	0.0	11 4	40.0	0.289	8.3	LOS A	1.4	39.2	0.32	0.15	0.32	29.4
Appro	bach		318 1	1.1	318	11.1	0.289	5.9	LOS A	1.4	39.2	0.32	0.15	0.32	32.3
North	: Hill R	Rd													
7	L2	All MCs	33	0.0	33	0.0	0.057	4.6	LOS A	0.2	5.8	0.49	0.37	0.49	34.2
4	T1	All MCs	11	0.0	11	0.0	0.057	4.6	LOS A	0.2	5.8	0.49	0.37	0.49	34.9
14	R2	All MCs	6	0.0	6	0.0	0.057	4.6	LOS A	0.2	5.8	0.49	0.37	0.49	34.6
Appro	bach		50	0.0	50	0.0	0.057	4.6	LOS A	0.2	5.8	0.49	0.37	0.49	34.4
West:	Bake	r Creek R	d												
5	L2	All MCs	6	0.0	6	0.0	0.388	7.3	LOS A	2.1	54.9	0.52	0.33	0.52	34.5
2	T1	All MCs	261	4.0	261	4.0	0.388	7.7	LOS A	2.1	54.9	0.52	0.33	0.52	34.8
12	R2	All MCs	128	2.0	128	2.0	0.388	7.5	LOS A	2.1	54.9	0.52	0.33	0.52	34.8
Appro	bach		394	3.3	394	3.3	0.388	7.6	LOS A	2.1	54.9	0.52	0.33	0.52	34.8
All Ve	hicles		1173	4.9	1173	4.9	0.422	7.3	LOS A	2.4	60.2	0.49	0.31	0.49	33.6

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Options tab).

Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Stopline Delay: Geometric Delay is not included).

Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.

Gap-Acceptance Capacity Formula: Siegloch M1 implied by US HCM 6 Roundabout Capacity Model.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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Project: S:\Projects\2023\23041-000 (McMinnville Fox Ridge Area Plan TPR)\5_Analysis\SIDRA\Fox Ridge Road_Roundabout Analysis.sip9

V Site: 2 [Hill Rd at Wallace Rd - AM (Site Folder: Future Preferred Scenario 2044)]

Output produced by SIDRA INTERSECTION Version: 9.1.4.221

Future Year 2041 Preferred AM Peak Hour Site Category: Existing Design Roundabout

Vehio	cle Mo	ovement	t Perfo	rma	nce										
Mov ID	Turn	Mov Class		lows HV]		rival ows HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% B Que [Veh. veh		Prop. Que	Eff. Stop Rate	Aver. No. of Cycles	Aver. Speed mph
South	: Hill F	Rd													
3	L2	All MCs	187	1.0	187	1.0	0.553	9.7	LOS A	4.0	101.5	0.59	0.34	0.59	29.5
8	T1	All MCs	312	2.0	312	2.0	0.553	9.8	LOS A	4.0	101.5	0.59	0.34	0.59	30.9
18	R2	All MCs	109	2.0	109	2.0	0.553	9.8	LOS A	4.0	101.5	0.59	0.34	0.59	25.0
Appro	ach		608	1.7	608	1.7	0.553	9.8	LOS A	4.0	101.5	0.59	0.34	0.59	29.2
East:	Wallad	ce Rd													
1	L2	All MCs	67	3.0	67	3.0	0.249	8.0	LOS A	1.0	26.5	0.63	0.54	0.63	26.6
6	T1	All MCs	67	1.0	67	1.0	0.249	7.6	LOS A	1.0	26.5	0.63	0.54	0.63	28.1
16	R2	All MCs	39	10.0	39	10.0	0.249	9.3	LOS A	1.0	26.5	0.63	0.54	0.63	27.9
Appro	ach		172	3.8	172	3.8	0.249	8.1	LOS A	1.0	26.5	0.63	0.54	0.63	27.5
North	: Hill R	d													
7	L2	All MCs	56	4.0	56	4.0	0.463	9.3	LOS A	2.8	71.8	0.61	0.43	0.64	26.3
4	T1	All MCs	226	3.0	226	3.0	0.463	9.2	LOS A	2.8	71.8	0.61	0.43	0.64	30.7
14	R2	All MCs	164	1.0	164	1.0	0.463	9.0	LOS A	2.8	71.8	0.61	0.43	0.64	32.0
Appro	ach		446	2.4	446	2.4	0.463	9.2	LOS A	2.8	71.8	0.61	0.43	0.64	30.5
West:	Walla	ce Road													
5	L2	All MCs	110	1.0	110	1.0	0.281	6.7	LOS A	1.4	34.5	0.53	0.38	0.53	31.4
2	T1	All MCs	34	1.0	34	1.0	0.281	6.7	LOS A	1.4	34.5	0.53	0.38	0.53	32.0
12	R2	All MCs	121	1.0	121	1.0	0.281	6.7	LOS A	1.4	34.5	0.53	0.38	0.53	31.7
Appro	ach		266	1.0	266	1.0	0.281	6.7	LOS A	1.4	34.5	0.53	0.38	0.53	31.6
All Ve	hicles		1491	2.0	1491	2.0	0.553	8.9	LOS A	4.0	101.5	0.59	0.40	0.60	29.8

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Options tab).

Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Stopline Delay: Geometric Delay is not included).

Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.

Gap-Acceptance Capacity Formula: Siegloch M1 implied by US HCM 6 Roundabout Capacity Model.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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Project: S:\Projects\2023\23041-000 (McMinnville Fox Ridge Area Plan TPR)\5_Analysis\SIDRA\Fox Ridge Road_Roundabout Analysis.sip9

Intersection						
Int Delay, s/veh	4.3					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y		ľ	•	el el	
Traffic Vol, veh/h	89	79	37	428	355	37
Future Vol, veh/h	89	79	37	428	355	37
Conflicting Peds, #/hr	5	0	3	0	0	3
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	200	-	-	-
Veh in Median Storage	,# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	0	0	0	2	4	0
Mvmt Flow	99	88	41	476	394	41

Major/Minor	Minor2	N	Najor1	Maj	or2	
Conflicting Flow All	981	418	438	0	-	0
Stage 1	418	-	-	-	-	-
Stage 2	563	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	279	639	1133	-	-	-
Stage 1	669	-	-	-	-	-
Stage 2	574	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuve		637	1130	-	-	-
Mov Cap-2 Maneuve	r 267	-	-	-	-	-
Stage 1	643	-	-	-	-	-
Stage 2	572	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	24.5	0.7	0
HCM LOS	С		

Minor Lane/Major Mvmt	NBL	NBT EBLn1	SBT	SBR
Capacity (veh/h)	1130	- 367	-	-
HCM Lane V/C Ratio	0.036	- 0.509	-	-
HCM Control Delay (s)	8.3	- 24.5	-	-
HCM Lane LOS	А	- C	-	-
HCM 95th %tile Q(veh)	0.1	- 2.8	-	-

ntersection	
ntersection Delay, s/veh	69.3
itersection Delay, s/ven	09.3
ntersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		÷	1		\$			\$		٦.	4Î	
Traffic Vol, veh/h	95	225	35	65	105	130	35	215	145	213	179	62
Future Vol, veh/h	95	225	35	65	105	130	35	215	145	213	179	62
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles, %	2	5	10	8	3	2	10	2	5	0	5	3
Mvmt Flow	106	250	39	72	117	144	39	239	161	237	199	69
Number of Lanes	0	1	1	0	1	0	0	1	0	1	1	0
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	1			2			2			1		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	2			1			2			1		
Conflicting Approach Right	NB			SB			WB			EB		
Conflicting Lanes Right	1			2			1			2		
HCM Control Delay	57.4			56.7			134.3			30.4		
HCM LOS	F			F			F			D		

Lane	NBLn1	EBLn1	EBLn2	WBLn1	SBLn1	SBLn2
Vol Left, %	9%	30%	0%	22%	100%	0%
Vol Thru, %	54%	70%	0%	35%	0%	74%
Vol Right, %	37%	0%	100%	43%	0%	26%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	395	320	35	300	213	241
LT Vol	35	95	0	65	213	0
Through Vol	215	225	0	105	0	179
RT Vol	145	0	35	130	0	62
Lane Flow Rate	439	356	39	333	237	268
Geometry Grp	4b	5	5	4b	5	5
Degree of Util (X)	1.177	0.924	0.092	0.885	0.64	0.68
Departure Headway (Hd)	9.651	10.005	9.169	10.35	10.409	9.785
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Сар	377	366	393	353	350	372
Service Time	7.651	7.705	6.869	8.35	8.109	7.485
HCM Lane V/C Ratio	1.164	0.973	0.099	0.943	0.677	0.72
HCM Control Delay	134.3	62.3	12.8	56.7	29.9	30.9
HCM Lane LOS	F	F	В	F	D	D
HCM 95th-tile Q	17.6	9.6	0.3	8.5	4.2	4.8

7.6

Intersection

Int Delay, s/veh

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		¢			\$			\$			\$		
Traffic Vol, veh/h	25	55	10	5	25	135	10	190	5	153	201	15	
Future Vol, veh/h	25	55	10	5	25	135	10	190	5	153	201	15	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	1	1	0	0	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
RT Channelized	-	-	None										
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-	
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90	
Heavy Vehicles, %	0	0	0	0	0	8	0	2	33	6	1	0	
Mvmt Flow	28	61	11	6	28	150	11	211	6	170	223	17	

Major/Minor	Minor2		Ν	1inor1		ľ	Major1		Ν	lajor2			
Conflicting Flow All	897	812	232	845	817	215	240	0	0	218	0	0	
Stage 1	572	572	-	237	237	-	-	-	-	-	-	-	
Stage 2	325	240	-	608	580	-	-	-	-	-	-	-	
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.28	4.1	-	-	4.16	-	-	
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-	
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-	
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.372	2.2	-	-	2.254	-	-	
Pot Cap-1 Maneuver	263	315	812	285	313	810	1339	-	-	1328	-	-	
Stage 1	509	508	-	771	713	-	-	-	-	-	-	-	
Stage 2	692	711	-	486	503	-	-	-	-	-	-	-	
Platoon blocked, %								-	-		-	-	
Mov Cap-1 Maneuver	r 174	266	812	205	264	809	1339	-	-	1327	-	-	
Mov Cap-2 Maneuver	r 174	266	-	205	264	-	-	-	-	-	-	-	
Stage 1	504	433	-	763	706	-	-	-	-	-	-	-	
Stage 2	537	704	-	351	429	-	-	-	-	-	-	-	

Approach	EB	WB	NB	SB	
HCM Control Delay, s	29	14.1	0.4	3.4	
HCM LOS	D	В			

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1\	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1339	-	-	248	577	1327	-	-
HCM Lane V/C Ratio	0.008	-	-	0.403	0.318	0.128	-	-
HCM Control Delay (s)	7.7	0	-	29	14.1	8.1	0	-
HCM Lane LOS	А	А	-	D	В	А	А	-
HCM 95th %tile Q(veh)	0	-	-	1.8	1.4	0.4	-	-

MOVEMENT SUMMARY

V Site: 1 [Hill Rd at Baker Creek Rd - PM (Site Folder: Future Preferred Scenario 2044)]

Output produced by SIDRA INTERSECTION Version: 9.1.4.221

Future Year 2041 Preferred PM Peak Hour Site Category: NA

one outegory. IN t	
Roundabout	
Roundabout	

Vehicle Movement Performance															
Mov ID	Turn	Mov Class		lows HV]		rival lows HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% B Que [Veh. veh		Prop. Que	Eff. Stop Rate	Aver. No. of Cycles	Aver. Speed mph
South	: Hill F	۲d													
3	L2	All MCs	159	4.0	159	4.0	0.470	8.4	LOS A	3.1	78.3	0.50	0.27	0.50	32.8
8	T1	All MCs	10	0.0	10	0.0	0.470	8.0	LOS A	3.1	78.3	0.50	0.27	0.50	34.1
18	R2	All MCs	356	2.0	356	2.0	0.470	8.2	LOS A	3.1	78.3	0.50	0.27	0.50	33.5
Appro	bach		526	2.6	526	2.6	0.470	8.2	LOS A	3.1	78.3	0.50	0.27	0.50	33.3
East:	Baker	Creek Ro	ł												
1	L2	All MCs	462	2.0	462	2.0	0.652	11.9	LOS B	6.7	169.8	0.66	0.40	0.72	30.7
6	T1	All MCs	240	2.0	240	2.0	0.652	11.9	LOS B	6.7	169.8	0.66	0.40	0.72	31.4
16	R2	All MCs	31	0.0	31	0.0	0.652	11.7	LOS B	6.7	169.8	0.66	0.40	0.72	31.3
Appro	ach		733	1.9	733	1.9	0.652	11.9	LOS B	6.7	169.8	0.66	0.40	0.72	31.0
North	: Hill R	d													
7	L2	All MCs	26	0.0	26	0.0	0.082	7.4	LOS A	0.3	7.7	0.64	0.61	0.64	33.1
4	T1	All MCs	15	0.0	15	0.0	0.082	7.4	LOS A	0.3	7.7	0.64	0.61	0.64	33.9
14	R2	All MCs	5	0.0	5	0.0	0.082	7.4	LOS A	0.3	7.7	0.64	0.61	0.64	33.6
Appro	ach		46	0.0	46	0.0	0.082	7.4	LOS A	0.3	7.7	0.64	0.61	0.64	33.4
West:	Baker	⁻ Creek R	d												
5	L2	All MCs	5	0.0	5	0.0	0.414	9.4	LOS A	2.3	58.6	0.67	0.57	0.77	33.4
2	T1	All MCs	143	3.0	143	3.0	0.414	9.8	LOS A	2.3	58.6	0.67	0.57	0.77	33.8
12	R2	All MCs	179	2.0	179	2.0	0.414	9.7	LOS A	2.3	58.6	0.67	0.57	0.77	33.6
Appro	ach		327	2.4	327	2.4	0.414	9.7	LOS A	2.3	58.6	0.67	0.57	0.77	33.7
All Ve	hicles		1631	2.2	1631	2.2	0.652	10.2	LOS B	6.7	169.8	0.61	0.40	0.66	32.3

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Options tab).

Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Stopline Delay: Geometric Delay is not included).

Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.

Gap-Acceptance Capacity Formula: Siegloch M1 implied by US HCM 6 Roundabout Capacity Model.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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Project: S:\Projects\2023\23041-000 (McMinnville Fox Ridge Area Plan TPR)\5_Analysis\SIDRA\Fox Ridge Road_Roundabout Analysis.sip9

MOVEMENT SUMMARY

V Site: 2 [Hill Rd at Wallace Rd - PM (Site Folder: Future Preferred Scenario 2044)]

Output produced by SIDRA INTERSECTION Version: 9.1.4.221

Future Year 2041 Preferred PM Peak Hour Site Category: NA Roundabout

Vehicle Movement Performance															
Mov ID	Turn	Mov Class	Dem Fl [Total] veh/h	lows HV]	FI	rival lows HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% B Que [Veh. veh		Prop. Que	Eff. Stop Rate	Aver. No. of Cycles	Aver. Speed mph
South	: Hill F	Rd													
3	L2	All MCs	92	0.0	92	0.0	0.550	9.2	LOS A	4.2	106.6	0.52	0.27	0.52	29.9
8	T1	All MCs	460	1.0	460	1.0	0.550	9.3	LOS A	4.2	106.6	0.52	0.27	0.52	31.4
18	R2	All MCs	93	0.0	93	0.0	0.550	9.2	LOS A	4.2	106.6	0.52	0.27	0.52	25.2
Appro	ach		646	0.7	646	0.7	0.550	9.2	LOS A	4.2	106.6	0.52	0.27	0.52	30.1
East:	Wallac	ce Rd													
1	L2	All MCs	116	0.0	116	0.0	0.272	7.9	LOS A	1.2	29.8	0.64	0.55	0.64	25.2
6	T1	All MCs	27	0.0	27	0.0	0.272	7.9	LOS A	1.2	29.8	0.64	0.55	0.64	26.5
16	R2	All MCs	49	8.0	49	8.0	0.272	9.4	LOS A	1.2	29.8	0.64	0.55	0.64	26.5
Appro	ach		193	2.0	193	2.0	0.272	8.3	LOS A	1.2	29.8	0.64	0.55	0.64	25.7
North	: Hill R	d													
7	L2	All MCs	60	6.0	60	6.0	0.652	12.9	LOS B	8.1	205.2	0.72	0.55	0.95	25.6
4	T1	All MCs	555	1.0	555	1.0	0.652	12.4	LOS B	8.1	205.2	0.72	0.55	0.95	29.8
14	R2	All MCs	80	0.0	80	0.0	0.652	12.2	LOS B	8.1	205.2	0.72	0.55	0.95	30.9
Appro	ach		696	1.3	696	1.3	0.652	12.4	LOS B	8.1	205.2	0.72	0.55	0.95	29.5
West:	Walla	ce Road													
5	L2	All MCs	62	0.0	62	0.0	0.261	8.8	LOS A	1.1	27.8	0.67	0.60	0.67	30.6
2	T1	All MCs	23	0.0	23	0.0	0.261	8.8	LOS A	1.1	27.8	0.67	0.60	0.67	31.2
12	R2	All MCs	85	0.0	85	0.0	0.261	8.8	LOS A	1.1	27.8	0.67	0.60	0.67	30.9
Appro	ach		169	0.0	169	0.0	0.261	8.8	LOS A	1.1	27.8	0.67	0.60	0.67	30.8
All Ve	hicles		1704	1.0	1704	1.0	0.652	10.4	LOS B	8.1	205.2	0.63	0.45	0.72	29.3

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Options tab).

Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Stopline Delay: Geometric Delay is not included).

Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.

Gap-Acceptance Capacity Formula: Siegloch M1 implied by US HCM 6 Roundabout Capacity Model.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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Project: S:\Projects\2023\23041-000 (McMinnville Fox Ridge Area Plan TPR)\5_Analysis\SIDRA\Fox Ridge Road_Roundabout Analysis.sip9

Intersection						
Int Delay, s/veh	10.9					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y		<u>ار</u>	•	4	
Traffic Vol, veh/h	80	80	105	514	558	115
Future Vol, veh/h	80	80	105	514	558	115
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	200	-	-	-
Veh in Median Storage	,# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	91	91	91	91	91	91
Heavy Vehicles, %	0	0	0	2	1	0
Mvmt Flow	88	88	115	565	613	126

Major/Minor	Minor2	Ν	1ajor1	Majo	or2	
Conflicting Flow All	1471	676	739	0	-	0
Stage 1	676	-	-	-	-	-
Stage 2	795	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	141	457	876	-	-	-
Stage 1	509	-	-	-	-	-
Stage 2	448	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	123	457	876	-	-	-
Mov Cap-2 Maneuver	123	-	-	-	-	-
Stage 1	442	-	-	-	-	-
Stage 2	448	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	92	1.7	0
HCM LOS	F		

Minor Lane/Major Mvmt	NBL	NBT E	BLn1	SBT	SBR
Capacity (veh/h)	876	-	194	-	-
HCM Lane V/C Ratio	0.132	- (0.906	-	-
HCM Control Delay (s)	9.7	-	92	-	-
HCM Lane LOS	А	-	F	-	-
HCM 95th %tile Q(veh)	0.5	-	7.1	-	-

Intersection Intersection Delay, s/veh 156.4 Intersection LOS F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		÷	1		4			\$		٦.	4Î	
Traffic Vol, veh/h	91	140	20	105	200	232	35	306	80	179	307	121
Future Vol, veh/h	91	140	20	105	200	232	35	306	80	179	307	121
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles, %	0	1	0	3	1	1	0	3	4	1	2	0
Mvmt Flow	101	156	22	117	222	258	39	340	89	199	341	134
Number of Lanes	0	1	1	0	1	0	0	1	0	1	1	0
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	1			2			2			1		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	2			1			2			1		
Conflicting Approach Right	NB			SB			WB			EB		
Conflicting Lanes Right	1			2			1			2		
HCM Control Delay	36.9			275.6			150.6			104.3		
HCM LOS	E			F			F			F		

Lane	NBLn1	EBLn1	EBLn2	WBLn1	SBLn1	SBLn2
Vol Left, %	8%	39%	0%	20%	100%	0%
Vol Thru, %	73%	61%	0%	37%	0%	72%
Vol Right, %	19%	0%	100%	43%	0%	28%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	421	231	20	537	179	428
LT Vol	35	91	0	105	179	0
Through Vol	306	140	0	200	0	307
RT Vol	80	0	20	232	0	121
Lane Flow Rate	468	257	22	597	199	476
Geometry Grp	4b	5	5	4b	5	5
Degree of Util (X)	1.204	0.705	0.056	1.524	0.527	1.171
Departure Headway (Hd)	11.223	11.974	11.039	10.192	11.578	10.857
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Сар	327	305	326	364	314	338
Service Time	9.223	9.674	8.739	8.192	9.278	8.557
HCM Lane V/C Ratio	1.431	0.843	0.067	1.64	0.634	1.408
HCM Control Delay	150.6	38.9	14.4	275.6	26.5	136.9
HCM Lane LOS	F	E	В	F	D	F
HCM 95th-tile Q	16.8	5	0.2	29.9	2.9	16.1

9.1

Int Delay, s/veh

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		\$			\$			\$			÷		
Traffic Vol, veh/h	20	35	5	10	50	176	10	185	5	176	191	30	
Future Vol, veh/h	20	35	5	10	50	176	10	185	5	176	191	30	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
RT Channelized	-	-	None										
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-	
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90	
Heavy Vehicles, %	0	0	0	17	0	2	0	2	0	2	1	0	
Mvmt Flow	22	39	6	11	56	196	11	206	6	196	212	33	

Major/Minor	Minor2		ſ	Minor1		ſ	Major1		Ν	lajor2			
Conflicting Flow All	978	855	229	874	868	209	245	0	0	212	0	0	
Stage 1	621	621	-	231	231	-	-	-	-	-	-	-	
Stage 2	357	234	-	643	637	-	-	-	-	-	-	-	
Critical Hdwy	7.1	6.5	6.2	7.27	6.5	6.22	4.1	-	-	4.12	-	-	
Critical Hdwy Stg 1	6.1	5.5	-	6.27	5.5	-	-	-	-	-	-	-	
Critical Hdwy Stg 2	6.1	5.5	-	6.27	5.5	-	-	-	-	-	-	-	
Follow-up Hdwy	3.5	4	3.3	3.653	4	3.318	2.2	-	-	2.218	-	-	
Pot Cap-1 Maneuver	232	298	815	254	293	831	1333	-	-	1358	-	-	
Stage 1	478	482	-	739	717	-	-	-	-	-	-	-	
Stage 2	665	715	-	438	475	-	-	-	-	-	-	-	
Platoon blocked, %								-	-		-	-	
Mov Cap-1 Maneuver	r 127	246	815	193	242	831	1333	-	-	1358	-	-	
Mov Cap-2 Maneuver	r 127	246	-	193	242	-	-	-	-	-	-	-	
Stage 1	474	401	-	732	711	-	-	-	-	-	-	-	
Stage 2	465	709	-	327	395	-	-	-	-	-	-	-	

Approach	EB	WB	NB	SB	
HCM Control Delay, s	32.6	19.7	0.4	3.6	
HCM LOS	D	С			

Minor Lane/Major Mvmt	NBL	NBT	NBR E	BLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1333	-	-	196	502	1358	-	-
HCM Lane V/C Ratio	0.008	-	-	0.34	0.522	0.144	-	-
HCM Control Delay (s)	7.7	0	-	32.6	19.7	8.1	0	-
HCM Lane LOS	А	А	-	D	С	А	А	-
HCM 95th %tile Q(veh)	0	-	-	1.4	3	0.5	-	-

RECOMMENDED IMPROVEMENTS HCM REPORTS

FOX RIDGE ROAD AREA PLAN • TRAFFIC ANALYSIS • NOVEMBER 2023

MOVEMENT SUMMARY

V Site: 1 [Hill Rd at Fox Ridge Road - AM (Site Folder: Mitigation)]

Output produced by SIDRA INTERSECTION Version: 9.1.4.221

Future Year 2041 Preferred AM Peak Hour - Mitigation Site Category: NA

Roundabout

Vehic	cle Mo	ovement	t Perfo	rma	nce										
Mov ID	Turn	Mov Class		lows HV]		rival lows HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% B Que [Veh. veh	ack Of eue Dist] ft	Prop. Que	Eff. Stop Rate	Aver. No. of Cycles	Aver. Speed mph
South	: Hill F	٦d													
3	L2	All MCs	41	0.0	41	0.0	0.422	6.8	LOS A	2.8	70.3	0.35	0.16	0.35	34.7
8	T1	All MCs	476	2.0	476	2.0	0.422	7.0	LOS A	2.8	70.3	0.35	0.16	0.35	35.3
Appro	ach		517	1.8	517	1.8	0.422	7.0	LOS A	2.8	70.3	0.35	0.16	0.35	35.2
North	: Hill F	Rd													
4	T1	All MCs	394	4.0	394	4.0	0.341	5.7	LOS A	2.0	52.5	0.20	0.06	0.20	36.0
14	R2	All MCs	41	0.0	41	0.0	0.341	5.4	LOS A	2.0	52.5	0.20	0.06	0.20	36.2
Appro	ach		436	3.6	436	3.6	0.341	5.7	LOS A	2.0	52.5	0.20	0.06	0.20	36.0
West:	Fox F	Ridge Rd													
5	L2	All MCs	99	0.0	99	0.0	0.206	6.0	LOS A	0.9	23.4	0.53	0.40	0.53	33.8
12	R2	All MCs	88	0.0	88	0.0	0.206	6.0	LOS A	0.9	23.4	0.53	0.40	0.53	34.3
Appro	ach		187	0.0	187	0.0	0.206	6.0	LOS A	0.9	23.4	0.53	0.40	0.53	34.0
All Ve	hicles		1139	2.2	1139	2.2	0.422	6.3	LOS A	2.8	70.3	0.32	0.16	0.32	35.3

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Options tab).

Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Stopline Delay: Geometric Delay is not included).

Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.

Gap-Acceptance Capacity Formula: Siegloch M1 implied by US HCM 6 Roundabout Capacity Model.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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MOVEMENT SUMMARY

W Site: 2 [Hill Rd at 2nd Street - AM (Site Folder: Mitigation)]

Output produced by SIDRA INTERSECTION Version: 9.1.4.221

Future Year 2041 Preferred AM Peak Hour - Mitigation Site Category: NA Roundabout

Vehi	cle Mo	ovement	Performa	nce										
Mov ID	Turn	Mov Class	Demand Flows [Total HV] veh/h %	FI	rival lows HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service		Back Of Jeue Dist] ft	Prop. Que	Eff. Stop Rate	Aver. No. of Cycles	Aver. Speed mph
South	: Hill F	۲d												
3	L2	All MCs	39 10.0	39	10.0	0.627	17.6	LOS C	5.2	133.6	0.82	0.90	1.34	27.1
8	T1	All MCs	239 2.0	239	2.0	0.627	16.0	LOS C	5.2	133.6	0.82	0.90	1.34	28.5
18	R2	All MCs	161 5.0	161	5.0	0.627	16.6	LOS C	5.2	133.6	0.82	0.90	1.34	23.3
Appro	ach		439 3.8	439	3.8	0.627	16.3	LOS C	5.2	133.6	0.82	0.90	1.34	26.2
East:	2nd S	t												
1	L2	All MCs	72 8.0	72	8.0	0.379	9.0	LOS A	1.9	49.2	0.60	0.44	0.60	26.5
6	T1	All MCs	117 3.0	117	3.0	0.379	8.3	LOS A	1.9	49.2	0.60	0.44	0.60	28.1
16	R2	All MCs	144 2.0	144	2.0	0.379	8.2	LOS A	1.9	49.2	0.60	0.44	0.60	28.6
Appro	ach		333 3.7	333	3.7	0.379	8.4	LOS A	1.9	49.2	0.60	0.44	0.60	28.0
North	: Hill R	Rd												
7	L2	All MCs	237 0.0	237	0.0	0.481	8.6	LOS A	3.0	77.2	0.57	0.35	0.57	26.1
4	T1	All MCs	199 5.0	199	5.0	0.481	9.1	LOS A	3.0	77.2	0.57	0.35	0.57	30.3
14	R2	All MCs	69 3.0	69	3.0	0.481	8.9	LOS A	3.0	77.2	0.57	0.35	0.57	31.5
Appro	ach		504 2.4	504	2.4	0.481	8.8	LOS A	3.0	77.2	0.57	0.35	0.57	28.3
West:	2nd S	St												
5	L2	All MCs	106 2.0	106	2.0	0.522	11.9	LOS B	3.7	94.9	0.73	0.71	1.04	29.4
2	T1	All MCs	250 5.0	250	5.0	0.522	12.4	LOS B	3.7	94.9	0.73	0.71	1.04	29.9
12	R2	All MCs	39 10.0	39	10.0	0.522	13.3	LOS B	3.7	94.9	0.73	0.71	1.04	29.5
Appro	bach		394 4.7	394	4.7	0.522	12.3	LOS B	3.7	94.9	0.73	0.71	1.04	29.7
All Ve	hicles		1671 3.6	1671	3.6	0.627	11.5	LOS B	5.2	133.6	0.68	0.60	0.89	28.0

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Options tab).

Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6). Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Stopline Delay: Geometric Delay is not included).

Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.

Gap-Acceptance Capacity Formula: Siegloch M1 implied by US HCM 6 Roundabout Capacity Model.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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Movement	EBL	EBR	NBL	NBT	SBT	SBR		
Lane Configurations	¥		۲	1	4			
Traffic Volume (vph)	89	79	37	428	355	37		
Future Volume (vph)	89	79	37	428	355	37		
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900		
Total Lost time (s)	5.0		5.0	5.0	5.0			
Lane Util. Factor	1.00		1.00	1.00	1.00			
Frpb, ped/bikes	1.00		1.00	1.00	1.00			
Flpb, ped/bikes	1.00		1.00	1.00	1.00			
Frt	0.94		1.00	1.00	0.99			
Flt Protected	0.97		0.95	1.00	1.00			
Satd. Flow (prot)	1733		1802	1863	1806			
Flt Permitted	0.97		0.48	1.00	1.00			
Satd. Flow (perm)	1733		906	1863	1806		_	
Peak-hour factor, PHF	0.90	0.90	0.90	0.90	0.90	0.90		
Adj. Flow (vph)	99	88	41	476	394	41		
RTOR Reduction (vph)	38	0	0	0	5	0		
Lane Group Flow (vph)	149	0	41	476	430	0		
Confl. Peds. (#/hr)	5		3			3		
Heavy Vehicles (%)	0%	0%	0%	2%	4%	0%		
Turn Type	Prot		Perm	NA	NA			
Protected Phases	4			2	6			
Permitted Phases			2					
Actuated Green, G (s)	9.7		20.3	20.3	20.3			
Effective Green, g (s)	9.7		20.3	20.3	20.3			
Actuated g/C Ratio	0.24		0.51	0.51	0.51			
Clearance Time (s)	5.0		5.0	5.0	5.0			
Vehicle Extension (s)	3.0		3.0	3.0	3.0			
Lane Grp Cap (vph)	420		459	945	916			
v/s Ratio Prot	c0.09			c0.26	0.24			
v/s Ratio Perm			0.05					
v/c Ratio	0.36		0.09	0.50	0.47			
Uniform Delay, d1	12.6		5.1	6.5	6.4			
Progression Factor	1.00		1.00	1.00	1.00			
Incremental Delay, d2	0.5		0.1	0.4	0.4			
Delay (s)	13.1		5.2	6.9	6.8			
Level of Service	В		А	А	А			
Approach Delay (s)	13.1			6.8	6.8			
Approach LOS	В			А	А			
Intersection Summary								
HCM 2000 Control Delay			7.8	H	CM 2000	Level of Service	;	
HCM 2000 Volume to Capac	city ratio		0.46					
Actuated Cycle Length (s)			40.0	Si	um of lost	time (s)		
Intersection Capacity Utilization	tion		47.4%	IC	U Level c	of Service		
Analysis Period (min)			15					

c Critical Lane Group

HCM Signalized Intersection Capacity Analysis 4: Hill Rd & 2nd St

Fox Ridge Road Area Plan Future 2041 Preferred Scenario AM Peak Hour - Mitigation

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		ર્સ	1		4		ሻ	4		٦	eî 👘	
Traffic Volume (vph)	95	225	35	65	105	130	35	215	145	213	179	62
Future Volume (vph)	95	225	35	65	105	130	35	215	145	213	179	62
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		5.0	5.0		5.0		5.0	5.0		5.0	5.0	
Lane Util. Factor		1.00	1.00		1.00		1.00	1.00		1.00	1.00	
Frpb, ped/bikes		1.00	0.98		0.99		1.00	0.99		1.00	1.00	
Flpb, ped/bikes		1.00	1.00		1.00		1.00	1.00		1.00	1.00	
Frt		1.00	0.85		0.94		1.00	0.94		1.00	0.96	
Flt Protected		0.99	1.00		0.99		0.95	1.00		0.95	1.00	
Satd. Flow (prot)		1797	1434		1690		1641	1713		1805	1748	
Flt Permitted		0.73	1.00		0.67		0.95	1.00		0.95	1.00	
Satd. Flow (perm)		1327	1434		1148		1641	1713		1805	1748	
Peak-hour factor, PHF	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Adj. Flow (vph)	106	250	39	72	117	144	39	239	161	237	199	69
RTOR Reduction (vph)	0	0	27	0	31	0	0	27	0	0	13	0
Lane Group Flow (vph)	0	356	12	0	302	0	39	373	0	237	255	0
Confl. Peds. (#/hr)	2	000		Ŭ	002	2	0.7	0.10	0	207	200	Ű
Confl. Bikes (#/hr)	_		3			-			4			
Heavy Vehicles (%)	2%	5%	10%	8%	3%	2%	10%	2%	5%	0%	5%	3%
Turn Type	Perm	NA	Perm	Perm	NA	270	Prot	NA	070	Prot	NA	070
Protected Phases	I CIIII	4	I CIIII	I CIIII	8		5	2		1	6	
Permitted Phases	4	4	4	8	0		J	2		I	0	
Actuated Green, G (s)	Ŧ	24.4	24.4	0	24.4		3.1	23.6		14.1	34.6	
Effective Green, g (s)		24.4	24.4		24.4		3.1	23.6		14.1	34.6	
Actuated g/C Ratio		0.32	0.32		0.32		0.04	0.31		0.18	0.45	
Clearance Time (s)		5.0	5.0		5.0		5.0	5.0		5.0	5.0	
Vehicle Extension (s)		3.0	3.0		3.0		3.0	3.0		3.0	3.0	
											784	
Lane Grp Cap (vph)		419	453		363		65	524		330		
v/s Ratio Prot		o0 07	0.01		0.27		0.02	c0.22		c0.13	0.15	
v/s Ratio Perm		c0.27	0.01		0.26		0.40	0.71		0 70	0.22	
v/c Ratio		0.85	0.03		0.83		0.60	0.71		0.72	0.32	
Uniform Delay, d1		24.6	18.2		24.4		36.4	23.7		29.6	13.7	_
Progression Factor		1.00	1.00		1.00		1.00	1.00		1.00	1.00	
Incremental Delay, d2		14.8	0.0		14.8		14.0	4.5		7.3	0.2	
Delay (s)		39.5	18.2		39.3		50.4	28.3		36.9	14.0	
Level of Service		D	В		D		D	C		D	B	_
Approach Delay (s) Approach LOS		37.4 D			39.3 D			30.2 C			24.7 C	
		D			D			C			C	
Intersection Summary			20.4		014 0000				2			
HCM 2000 Control Delay			32.1	Н	CIVI 2000	Level of S	Service		С			
HCM 2000 Volume to Capacity	y ratio		0.77	2					15.0			
Actuated Cycle Length (s)			77.1		um of los	• • •			15.0			
Intersection Capacity Utilizatio	n		82.9%	IC	U Level	of Service			E			
Analysis Period (min)			15									
c Critical Lane Group												

MOVEMENT SUMMARY

V Site: 1 [Hill Rd at Fox Ridge Road - PM (Site Folder: Mitigation)]

Output produced by SIDRA INTERSECTION Version: 9.1.4.221

Future Year 2041 Preferred PM Peak Hour - Mitigation Site Category: NA

Roundabout

Vehic	cle Mo	ovemen	t Perfo	rma	nce										
Mov ID	Turn	Mov Class		lows HV]		rival lows HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service		ack Of eue Dist] ft	Prop. Que	Eff. Stop Rate	Aver. No. of Cycles	Aver. Speed mph
South	: Hill F	٦d													
3	L2	All MCs	115	0.0	115	0.0	0.548	8.6	LOS A	4.5	113.4	0.41	0.17	0.41	33.6
8	T1	All MCs	565	2.0	565	2.0	0.548	8.7	LOS A	4.5	113.4	0.41	0.17	0.41	34.1
Appro	ach		680	1.7	680	1.7	0.548	8.7	LOS A	4.5	113.4	0.41	0.17	0.41	34.0
North	: Hill F	Rd													
4	T1	All MCs	613	1.0	613	1.0	0.609	10.1	LOS B	5.4	136.4	0.52	0.24	0.52	34.0
14	R2	All MCs	126	0.0	126	0.0	0.609	10.0	LOS A	5.4	136.4	0.52	0.24	0.52	33.8
Appro	ach		740	0.8	740	0.8	0.609	10.1	LOS B	5.4	136.4	0.52	0.24	0.52	34.0
West:	Fox F	Ridge Rd													
5	L2	All MCs	87	0.0	87	0.0	0.237	7.6	LOS A	1.0	25.8	0.62	0.54	0.62	33.1
12	R2	All MCs	87	0.0	87	0.0	0.237	7.6	LOS A	1.0	25.8	0.62	0.54	0.62	33.5
Appro	bach		174	0.0	174	0.0	0.237	7.6	LOS A	1.0	25.8	0.62	0.54	0.62	33.3
All Ve	hicles		1593	1.1	1593	1.1	0.609	9.2	LOS A	5.4	136.4	0.48	0.24	0.48	33.9

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Options tab).

Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Stopline Delay: Geometric Delay is not included).

Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.

Gap-Acceptance Capacity Formula: Siegloch M1 implied by US HCM 6 Roundabout Capacity Model.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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Project: S:\Projects\2023\23041-000 (McMinnville Fox Ridge Area Plan TPR)\5_Analysis\SIDRA\Fox Ridge Road_Roundabout Analysis.sip9

MOVEMENT SUMMARY

W Site: 2 [Hill Rd at 2nd Street - PM (Site Folder: Mitigation)]

Output produced by SIDRA INTERSECTION Version: 9.1.4.221

Future Year 2041 Preferred PM Peak Hour - Mitigation Site Category: NA Roundabout

Vehio	cle Mo	ovement	t Perfo	rma	nce										
Mov ID	Turn	Mov Class		lows HV]		rival lows HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% B Que [Veh. veh		Prop. Que	Eff. Stop Rate	Aver. No. of Cycles	Aver. Speed mph
South	: Hill F	۶d													
3	L2	All MCs	39	0.0	39	0.0	0.565	12.0	LOS B	4.7	120.6	0.75	0.72	1.09	28.7
8	T1	All MCs	340	3.0	340	3.0	0.565	12.5	LOS B	4.7	120.6	0.75	0.72	1.09	29.9
18	R2	All MCs	89	4.0	89	4.0	0.565	12.7	LOS B	4.7	120.6	0.75	0.72	1.09	24.3
Appro	ach		468	2.9	468	2.9	0.565	12.5	LOS B	4.7	120.6	0.75	0.72	1.09	28.5
East:	2nd S	t													
1	L2	All MCs	117	3.0	117	3.0	0.728	18.7	LOS C	9.1	230.0	0.89	1.06	1.61	23.8
6	T1	All MCs	222	1.0	222	1.0	0.728	18.4	LOS C	9.1	230.0	0.89	1.06	1.61	25.1
16	R2	All MCs	258	1.0	258	1.0	0.728	18.4	LOS C	9.1	230.0	0.89	1.06	1.61	25.6
Appro	ach		597	1.4	597	1.4	0.728	18.5	LOS C	9.1	230.0	0.89	1.06	1.61	25.0
North	: Hill R	Rd													
7	L2	All MCs	199	1.0	199	1.0	0.736	17.2	LOS C	10.9	275.6	0.88	0.90	1.55	23.9
4	T1	All MCs	341	2.0	341	2.0	0.736	17.4	LOS C	10.9	275.6	0.88	0.90	1.55	27.5
14	R2	All MCs	134	0.0	134	0.0	0.736	17.1	LOS C	10.9	275.6	0.88	0.90	1.55	28.5
Appro	ach		674	1.3	674	1.3	0.736	17.3	LOS C	10.9	275.6	0.88	0.90	1.55	26.5
West:	2nd S	St													
5	L2	All MCs	101	0.0	101	0.0	0.404	10.5	LOS B	2.1	53.7	0.71	0.67	0.85	29.9
2	T1	All MCs	156	1.0	156	1.0	0.404	10.7	LOS B	2.1	53.7	0.71	0.67	0.85	30.4
12	R2	All MCs	22	0.0	22	0.0	0.404	10.5	LOS B	2.1	53.7	0.71	0.67	0.85	30.2
Appro	ach		279	0.6	279	0.6	0.404	10.6	LOS B	2.1	53.7	0.71	0.67	0.85	30.2
All Ve	hicles		2018	1.6	2018	1.6	0.736	15.6	LOS C	10.9	275.6	0.83	0.87	1.36	27.0

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Options tab).

Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6). Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Stopline Delay: Geometric Delay is not included).

Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.

Gap-Acceptance Capacity Formula: Siegloch M1 implied by US HCM 6 Roundabout Capacity Model.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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Mariana	_		1 NDI			CDD		
Movement	EBL	EBR	NBL	NBT	SBT	SBR		
Lane Configurations	¥	00	1	•	4	445		
Traffic Volume (vph)	80	80	105	514	558	115		
Future Volume (vph)	80	80	105	514	558	115		
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900		
Total Lost time (s)	4.5		4.5	4.5	4.5			
Lane Util. Factor	1.00		1.00	1.00	1.00			
Frpb, ped/bikes	1.00		1.00	1.00	1.00			
Flpb, ped/bikes	1.00		1.00	1.00	1.00			
Frt	0.93		1.00	1.00	0.98			
Flt Protected	0.98		0.95	1.00	1.00			
Satd. Flow (prot)	1729		1805	1863	1834			
Flt Permitted	0.98		0.28	1.00	1.00			
Satd. Flow (perm)	1729		531	1863	1834		 	
Peak-hour factor, PHF	0.91	0.91	0.91	0.91	0.91	0.91		
Adj. Flow (vph)	88	88	115	565	613	126		
RTOR Reduction (vph)	42	0	0	0	9	0		
Lane Group Flow (vph)	134	0	115	565	730	0		
Confl. Bikes (#/hr)						2		
Heavy Vehicles (%)	0%	0%	0%	2%	1%	0%		
Turn Type	Prot		Perm	NA	NA			
Protected Phases	4			2	6			
Permitted Phases			2					
Actuated Green, G (s)	9.3		30.2	30.2	30.2			
Effective Green, g (s)	9.3		30.2	30.2	30.2			
Actuated g/C Ratio	0.19		0.62	0.62	0.62			
Clearance Time (s)	4.5		4.5	4.5	4.5			
Vehicle Extension (s)	3.0		3.0	3.0	3.0			
Lane Grp Cap (vph)	331		330	1160	1141			
v/s Ratio Prot	c0.08			0.30	c0.40			
v/s Ratio Perm			0.22					
v/c Ratio	0.40		0.35	0.49	0.64			
Uniform Delay, d1	17.2		4.4	5.0	5.7			
Progression Factor	1.00		1.00	1.00	1.00			
Incremental Delay, d2	0.8		0.6	0.3	1.2			
Delay (s)	18.0		5.0	5.3	6.9			
Level of Service	B		0.0 A	A	A			
Approach Delay (s)	18.0			5.2	6.9			
Approach LOS	B			A	A			
	D			71				
Intersection Summary					014 0000			
HCM 2000 Control Delay			7.4	Н	CIM 2000	Level of Service	А	
HCM 2000 Volume to Capa	acity ratio		0.58	-	<u> </u>		0.0	
	Actuated Cycle Length (s)		48.5		um of lost		9.0	
Intersection Capacity Utiliz	ation		62.8%	IC	U Level c	of Service	В	
Analysis Period (min)			15					

c Critical Lane Group

HCM Signalized Intersection Capacity Analysis 4: Hill Rd & 2nd St

Fox Ridge Road Area Plan Future 2041 Preferred Scenario PM Peak Hour - Mitigation

	≯	-	\mathbf{F}	•	+	•	1	1	1	1	ţ	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		ا	1		÷		٦	et 🗧		٦	el 🗧	
Traffic Volume (vph)	91	140	20	105	200	232	35	306	80	179	307	121
Future Volume (vph)	91	140	20	105	200	232	35	306	80	179	307	121
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		5.0	5.0		5.0		5.0	5.0		5.0	5.0	
Lane Util. Factor		1.00	1.00		1.00		1.00	1.00		1.00	1.00	
Frpb, ped/bikes		1.00	0.97		1.00		1.00	1.00		1.00	0.99	
Flpb, ped/bikes		1.00	1.00		1.00		1.00	1.00		1.00	1.00	
Frt		1.00	0.85		0.94		1.00	0.97		1.00	0.96	
Flt Protected		0.98	1.00		0.99		0.95	1.00		0.95	1.00	
Satd. Flow (prot)		1852	1573		1746		1805	1775		1787	1783	
Flt Permitted		0.59	1.00		0.83		0.95	1.00		0.95	1.00	
Satd. Flow (perm)		1113	1573		1456		1805	1775		1787	1783	
Peak-hour factor, PHF	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Adj. Flow (vph)	101	156	22	117	222	258	39	340	89	199	341	134
RTOR Reduction (vph)	0	0	13	0	32	0	0	11	0	0	15	0
Lane Group Flow (vph)	0	257	9	0	565	0	39	418	0	199	460	0
Confl. Peds. (#/hr)			2	2								
Confl. Bikes (#/hr)			2						3			2
Heavy Vehicles (%)	0%	1%	0%	3%	1%	1%	0%	3%	4%	1%	2%	0%
Turn Type	Perm	NA	Perm	Perm	NA		Prot	NA		Prot	NA	
Protected Phases	1 01111	4	1 01111	1 01111	8		5	2		1	6	
Permitted Phases	4	•	4	8	Ū		U	-		•	Ū	
Actuated Green, G (s)	•	35.0	35.0	U	35.0		2.8	25.4		11.1	33.7	
Effective Green, g (s)		35.0	35.0		35.0		2.8	25.4		11.1	33.7	
Actuated g/C Ratio		0.40	0.40		0.40		0.03	0.29		0.13	0.39	
Clearance Time (s)		5.0	5.0		5.0		5.0	5.0		5.0	5.0	
Vehicle Extension (s)		3.0	3.0		3.0		3.0	3.0		3.0	3.0	
Lane Grp Cap (vph)		450	636		589		58	521		229	694	
v/s Ratio Prot		100	000		007		0.02	c0.24		c0.11	0.26	
v/s Ratio Perm		0.23	0.01		c0.39		0.02	00.21		00.11	0.20	
v/c Ratio		0.57	0.01		0.96		0.67	0.80		0.87	0.66	
Uniform Delay, d1		19.9	15.4		25.1		41.4	28.2		37.0	21.7	
Progression Factor		1.00	1.00		1.00		1.00	1.00		1.00	1.00	
Incremental Delay, d2		1.8	0.0		27.3		26.6	8.7		27.6	2.4	
Delay (s)		21.7	15.4		52.4		68.0	37.0		64.6	24.1	
Level of Service		С	В		D		E	D		E	C	
Approach Delay (s)		21.2	2		52.4		_	39.5		_	36.1	
Approach LOS		С			D			D			D	
Intersection Summary												
HCM 2000 Control Delay			39.6	Н	CM 2000	Level of S	Service		D			
HCM 2000 Volume to Capacity	y ratio		0.89									
Actuated Cycle Length (s)			86.5	S	um of lost	t time (s)			15.0			
Intersection Capacity Utilizatio	n		90.7%			of Service			E			
Analysis Period (min)			15									
c Critical Lane Group												

TRAVEL DEMAND MODEL OUTPUTS & ODOT CORRESPONDENCE

FOX RIDGE ROAD AREA PLAN • TRAFFIC ANALYSIS • NOVEMBER 2023

To: Arielle Ferber, ODOT R2 Cc: Alex Bettinardi, ODOT TPAU From: Jenna Bogert, DKS Associates Date: September 19th, 2023

Proposed Future Forecasts and Assumptions Fox Ridge Road Area Plan

DKS previously submitted a letter¹ that outlined the methodology for estimating the future 2044 Baseline volumes and 2044 Preferred Land Use Scenario volumes for the Fox Ridge Road Area Plan. This memo provides the detailed analysis assumptions including the proposed growth rate, trip generation rates, and trip distribution assumptions for the traffic study, based on data from the travel demand model which was provided by ODOT TPAU.

Proposed Growth Rate

ODOT TPAU provided volume figures from the 2015 and 2041 travel demand models to DKS. Based on the volume plots, the average yearly vehicle growth is approximately 4% per year on Hill Road. DKS will apply the growth rate of 4% linearly to the 2023 collected traffic count data to estimate future year 2044 Baseline traffic volumes at all study intersections.

Proposed Trip Generation Rates

ODOT TPAU provided the number of households (213) and the household trip generation rates for TAZ 252 (area west of NW Hill Road along Fox Ridge Road) from the travel demand model to DKS. DKS will use the trip generation rates (shown below) to estimate the number of vehicle trips generated by the residential units in the Preferred Land Use Scenario.

At the suggestion of ODOT TPAU, the trip generation for employees based in the Fox Ridge Road area should be calculated using trip generation rates from the Institute of Transportation Engineers (ITE) Trip Generation Manual or similar. This was recommended in lieu of developing a trip rate per job or trip rate per employee from the travel demand model. The ITE trip rates for retail are shown in the table below.

Land Use	Daily Trip Rate	AM Trip Rate	PM Trip Rate	Source
Household	8.10 per DU	0.55 per DU	0.74 per DU	From McMinnville Travel Demand Model (ODOT TPAU)
Retail	54.45 per KSF	2.36 per KSF	6.59 per KSF	From ITE (LUC 822)

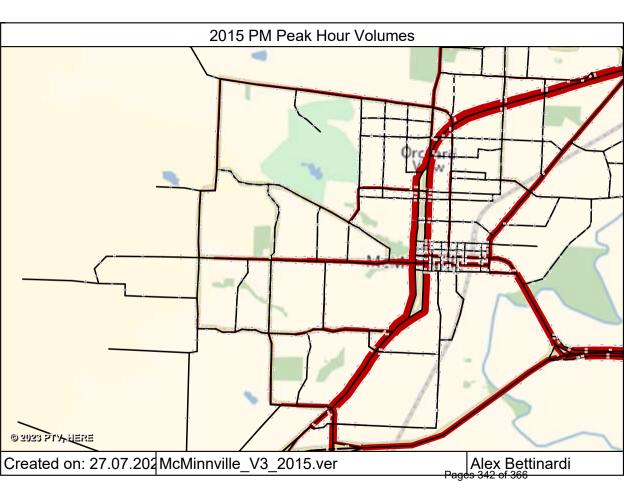
Proposed Trip Distribution

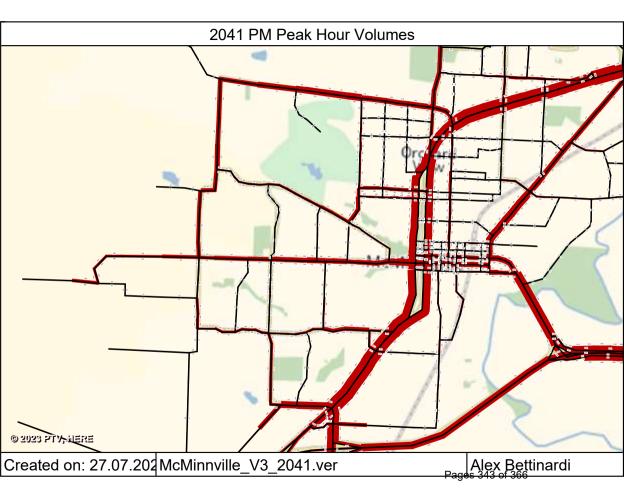
ODOT TPAU provided select zone plots for TAZ 252 and TAZ 139 from the travel demand model to DKS. The model plot for TAZ 252 shows the origin-destination routes for household trips to/from the Fox Ridge Road area. The model plot for TAZ 139 shows the origin-destination routes for household trips and employee trips to/from the area just east of Fox Ridge Road plan area. DKS estimated an average trip distribution as follows based on both model plots:

- 5% of trips via NW Baker Creek Road (west of city limits)
- 30% of trips via NW Baker Creek Road (east of NW Hill Rd)
- 15% of trips via NW Wallace Road

- 30% of trips via SW 2nd Street (east)
- 5% of trips via SW 2nd Street (west)
- 10% of trips via SW Fellows Street
- 5% of trips via SW Hill Road south of SW Fellows Street

¹ Letter provided via email to Arielle Ferber and Alex Bettinardi on July 21st ,2023.







Fox Ridge Road TPR Study - Future Volume Forecast Methodology

BETTINARDI Alexander O * Alex <Alexander.O.BETTINARDI@odot.oregon.gov> To: Jenna Bogert <jenna.bogert@dksassociates.com> Cc: FERBER Arielle <Arielle.FERBER@odot.oregon.gov>

Fox Ridge is represented by Zone 252

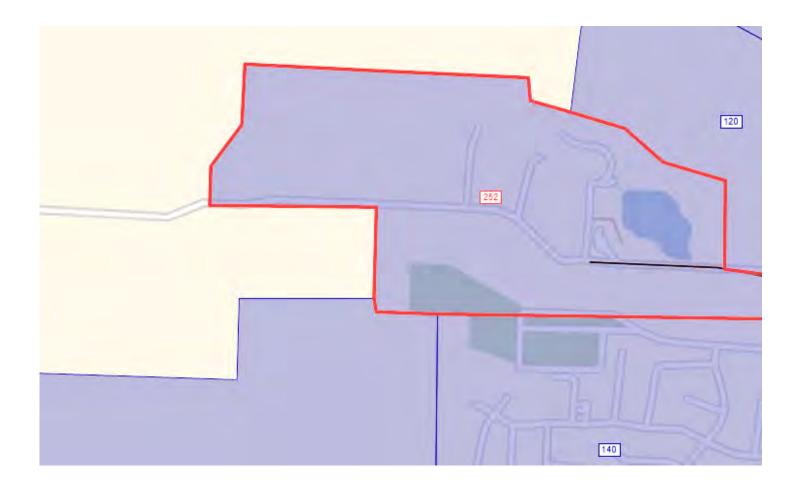
For the 2041 scenario, it's assumed to have 213 households (zero jobs), which are calculated to produce 2302 daily trips.

So on average each household in Zone 252 is generating 10.8 person vehicle trips / day.

Zone 252 generates 1716 vehicle trips per day at an average of 8.1 trips / day (this number is just vehicles - accounts for vehicle

occupancy)

I believe this is what you need, but please let me know if you were looking for additional information that was not provided here.



Alex Bettinardi, P.E. (he/him) 503.949.2368 http://www.oregon.gov/ODOT/Planning/Pages/default.aspx



Fox Ridge Road TPR Study - Future Volume Forecast Methodology

BETTINARDI Alexander O * Alex

<Alexander.O.BETTINARDI@odot.oregon.gov>

To: Jenna Bogert <jenna.bogert@dksassociates.com> Cc: FERBER Arielle <Arielle.FERBER@odot.oregon.gov> Thu, Aug 10, 2023 at 11:02 AM

Unfortunately, I don't think there's a good way to develop a trips per job or employee rate from the Model.

I was digging in and there are a couple of factors that I believe make creating a trip rate per employee unadvised:

- Trips in the model are produced by households so it is cleaner to create a household rate factor. They are then attracted to a number of different types of locations not just jobs.
- Since most zones have a mix of employees and other attractions it's very difficult to separate which trips are attracted to employment versus other attractions.
- One way around this is to find zones with just employment and see how many trips are attracted to those zones, however the McMinnville model uses special generators. And the impact of that is that some zones get a trip boost and some give away trips to those boosts. So some zones with just employment attraction will show more than the average because of a special generator (or really attractor) applied and some don't and so the presence of this special generator treatment makes it near impossible (and at least very impractical) to tease apart what the average employee attraction for the area might be.

So for employers – I'm suggesting you might turn to ITE trip generation or similar.

For the PM peak hour vehicle generation for zone 252. There are 157.5 PM peak trips for TAZ 252, across 213 households, so 0.74 vehicle trips per household in the PM peak.

I hope this is helpful, please let me know if further information is needed.

Alex Bettinardi, P.E. (he/him) 503.949.2368 http://www.oregon.gov/ODOT/Planning/Pages/default.aspx

From: Jenna Bogert <jenna.bogert@dksassociates.com>
Sent: Thursday, August 10, 2023 10:04 AM
To: BETTINARDI Alexander O * Alex <Alexander.O.BETTINARDI@odot.
oregon.gov>
Cc: FERBER Arielle <Arielle.FERBER@odot.oregon.gov>
Subject: Re: Fox Ridge Road TPR Study - Future Volume Forecast Methodology

This message was sent from outside the organization. Treat attachments, links and requests with caution. Be conscious of the information you share if you respond.

Alex - Can you provide the same household trip gen info for the PM peak hour in zone 252? Also, can you provide the trips per job for the PM peak hour from another TAZ? Maybe TAZ 151?

Thanks!

Jenna Bogert, PE (OR, WA) | Transportation Engineering Associate Direct Ph: 971-332-5316 | Email: jenna.bogert@dksassociates.com

[Quoted text hidden]

[Quoted text hidden]



Fox Ridge Road TPR Study - Future Volume Forecast Methodology

BETTINARDI Alexander O * Alex < Alexander.O.BETTINARDI@odot.oregon.gov>

Tue, Aug 22, 2023 at 10:50 AM

To: Jenna Bogert <jenna.bogert@dksassociates.com>

Do you think these will work (PM peak select zones)

Again, zone 252 is fox ridge. In the future year (these are future year) it has zero employment and 213 households

Zone 139 is the zone just to the east of 252. It has 193 households and 516 employment (61 retail and 444 service employees).

Alex Bettinardi, P.E. (he/him) 503.949.2368 http://www.oregon.gov/ODOT/Planning/Pages/default.aspx

From: Jenna Bogert <jenna.bogert@dksassociates.com> Sent: Friday, August 18, 2023 2:24 PM To: BETTINARDI Alexander O * Alex <Alexander.O.BETTINARDI@odot.oregon.gov> Subject: Re: Fox Ridge Road TPR Study - Future Volume Forecast Methodology

This message was sent from outside the organization. Treat attachments, links and requests with caution. Be conscious of the information you share if you respond.

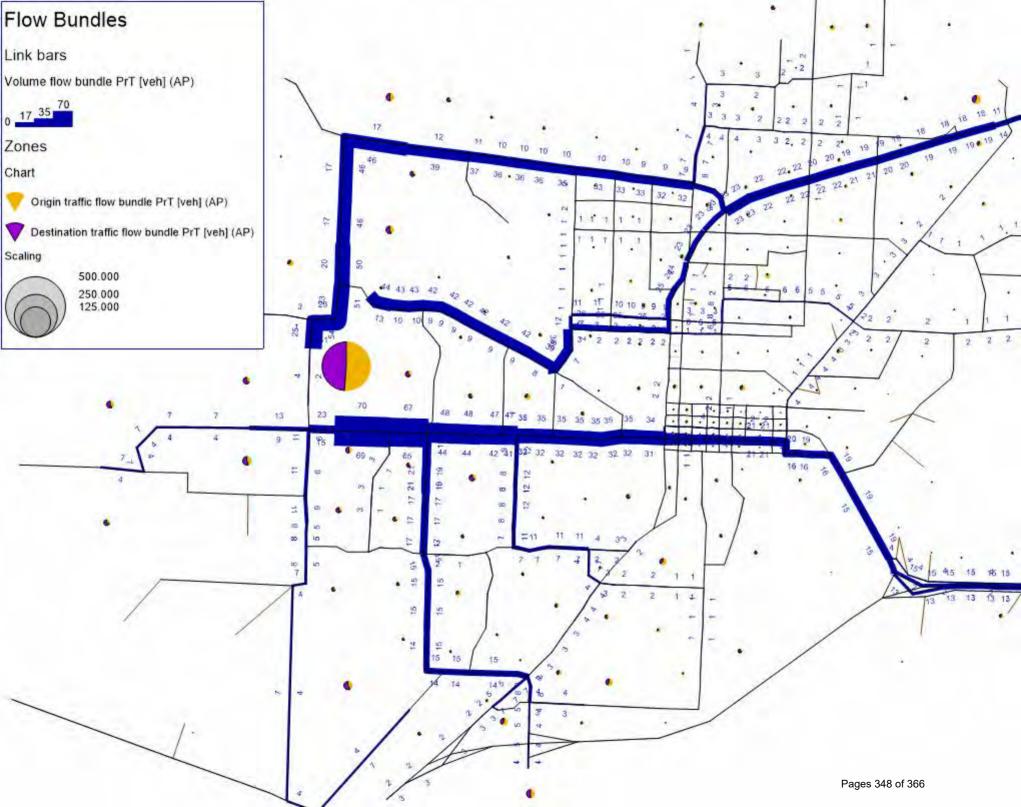
Hi Alex,

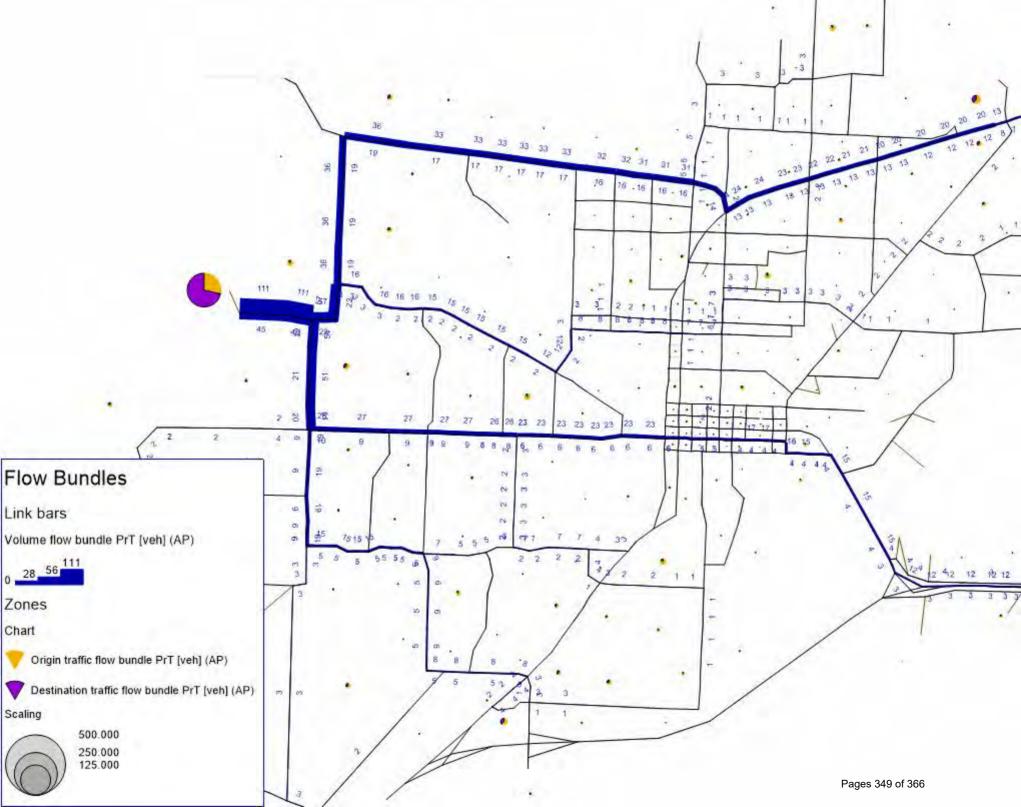
It was nice to meet you this week at the conference and hear all of your questions during the sessions!

As we briefly discussed on Tuesday morning, would you be able to run a select zone for the Fox Ridge Road TAZ 252? As well as a neighboring zone that also has employment trips? That way I can attempt to capture any differences in trip distribution between the two trip generators. I'll be summarizing all of the final assumptions in a report to Arielle and you in the next few weeks for final buy off.

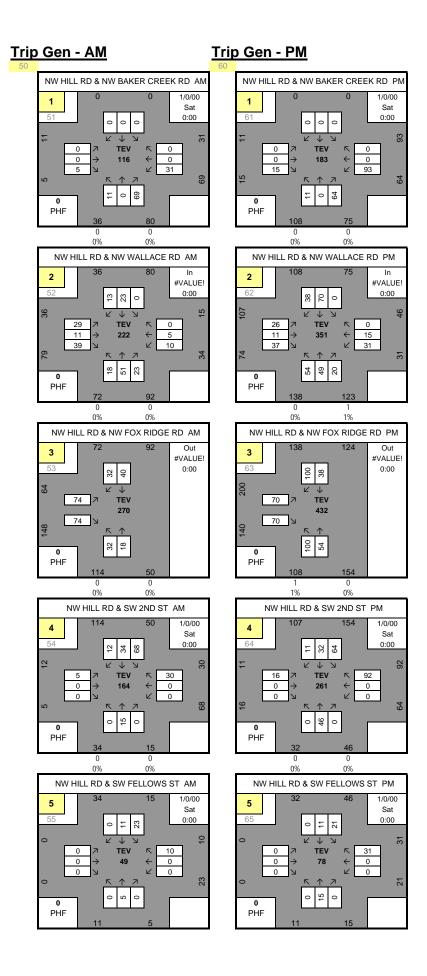
Thanks and have a good weekend! Jenna

Jenna Bogert, PE (OR, WA) | Transportation Engineering Associate Direct Ph: 971-332-5316 | Email: jenna.bogert@dksassociates.com





TRIP GENERATION VOLUME FIGURE



ATTACHMENT 2

From:	Tom Schauer
To:	EVANS Daniel * DSL
Cc:	BROWN Jevra * DSL; SERRA Erin * DSL; CHATFIELD Marcus W * DSL; FRISONE Dario * DSL
Subject:	RE: Yamhill County FW: G 1-22 - Fox Ridge Road Area Plan - Request for Comments
Date:	Monday, December 18, 2023 2:09:00 PM
Attachments:	image001.png

Hi Daniel,

Thanks for the quick reply. Just to clarify, this isn't a proposed development. This is a City-initiated area plan for an unincorporated area of the UGB (except for the school district property, which is already in City limits) that will guide development as individual property owners may seek annexation and development under City standards over time. We will do doing area plans for each of these unincorporated areas, and this was the first one.

The draft plan is available here:

https://www.mcminnvilleoregon.gov/cd/page/fox-ridge-road-area-planproject-g-1-22

This document has more information about the three-part planning process for unincorporated lands in the UGB.

https://www.mcminnvilleoregon.gov/sites/default/files/fileattachments/planning/ page/19961/appendix g - framework plan final 12.8.2020.pdf

2	

From: EVANS Daniel * DSL <Daniel.EVANS@dsl.oregon.gov>
Sent: Monday, December 18, 2023 1:10 PM

To: Tom Schauer <Tom.Schauer@mcminnvilleoregon.gov>
Cc: BROWN Jevra * DSL <Jevra.BROWN@dsl.oregon.gov>; SERRA Erin * DSL
<Erin.SERRA@dsl.oregon.gov>; CHATFIELD Marcus W * DSL <Marcus.W.Chatfield@dsl.oregon.gov>;
FRISONE Dario * DSL <Dario.FRISONE@dsl.oregon.gov>
Subject: RE: Yamhill County FW: G 1-22 - Fox Ridge Road Area Plan - Request for Comments

This message originated outside of the City of McMinnville.

Tom,

I'm glad I got an early look at this one. I don't always look at general notices (no time most of the time). Certainly a Wetland Land Use Notice will be needed at the time of subdivision or grading permits are applied for. Its such a big project that a delineation incorporated early on can help with macro/micro siting, especially if the local applicant is looking to avoid mitigation costs.

This large scale development will certainly benefit from a full site wetland delineation. For the benefit of other DSL staff on the chain, this is a planned 230 acre development with High to Low density housing, commercial, parks, trails, and school. There are mapped drainageways across the site, and potential aerial saturation signatures are evident as well, outside of the locations mapped on the planning-level inventory of the Statewide Wetland Inventory.

DSL recommends that the applicant incorporate a wetland delineation by a consultant into the planning stages as early as possible which will allow the applicant to determine if they can adjust development footprints to avoid or minimize wetland removal-fill permitting down the line.

Regards,

Daniel Evans, PWS

Jurisdictional Coordinator Columbia, Clatsop, Marion, Polk, Tillamook, Yamhill Oregon Department of State Lands Mobile: 503-428-8188

Rules and Requirements for Delineation submissions have changed! Please see: https://mailchi.mp/news.dsl.oregon.gov/rulemaking?e=5364d77235

From: HATTER Kizzy * DSL <<u>Kizzy.Hatter@dsl.oregon.gov</u>>
Sent: Monday, December 18, 2023 11:43 AM
To: CHATFIELD Marcus W * DSL <<u>Marcus.W.Chatfield@dsl.oregon.gov</u>>; FRISONE Dario * DSL
<<u>Dario.FRISONE@dsl.oregon.gov</u>>; EVANS Daniel * DSL <<u>Daniel.EVANS@dsl.oregon.gov</u>>
Cc: BROWN Jevra * DSL <<u>Jevra.BROWN@dsl.oregon.gov</u>>; SERRA Erin * DSL
<<u>Erin.SERRA@dsl.oregon.gov</u>>

Subject: Yamhill County FW: G 1-22 - Fox Ridge Road Area Plan - Request for Comments

Please see below for more information

Regards,

Kizzy Hatter Support Services Specialist Department of State Lands 775 Summer St NE STE 100 | Salem, OR 97301 971-707-8008 (Cell) Email: <u>kizzy.hatter@dsl.oregon.gov</u>

From: Tom Schauer < Tom.Schauer@mcminnvilleoregon.gov>

Sent: Friday, December 15, 2023 5:11 PM **To:** andrew.schurter@nwnatural.com; Jeff Gooden <Jeff.Gooden@mcminnvilleoregon.gov>; bskinner@msd.k12.or.us; Peter Calo@comcast.com; DBlue@recology.com; CCarey@recology.com; EMartin@recology.com; Kevin_Kopp@comcast.com; David Renshaw <<u>David.Renshaw@mcminnvilleoregon.gov</u>>; Ty Darby <<u>Ty.Darby@mcminnvilleoregon.gov</u>>; engineering@mc-power.com; Heather Richards < Heather.Richards@mcminnvilleoregon.gov>; Jeff Towery <<u>Jeff.Towery@mcminnvilleoregon.gov</u>>; DSL Support Services * DSL <<u>Support.SERVICES@dsl.oregon.gov</u>>; Ken Friday <<u>fridayk@co.yamhill.or.us</u>>; Leland Koester <Leland.Koester@mcminnvilleoregon.gov>; Matt Scales <Matt.Scales@mcminnvilleoregon.gov>; SRJ@mc-power.com; Stuart Ramsing <<u>Stuart.Ramsing@mcminnvilleoregon.gov</u>>; Susan Muir <<u>Susan.Muir@mcminnvilleoregon.gov</u>>; <u>JenH@mc-power.com</u>; <u>amg@mc-power.com</u>; odotr2planmgr@odot.state.or.us; James Lofton <James.Lofton@mcminnvilleoregon.gov>; thompsonc@co.yamhill.or.us; Noelle Amaya <<u>Noelle.Amaya@mcminnvilleoregon.gov</u>>; Matthew Bernards <<u>Matthew.Bernards@mcminnvilleoregon.gov</u>; James W. Burke <<u>iwb@mc-power.com</u>; Joe Rinkes <<u>Joe.Rinkes@mcminnvilleoregon.gov</u>>; KNECHT Casey <<u>Casey.KNECHT@odot.oregon.gov</u>>

Subject: G 1-22 - Fox Ridge Road Area Plan - Request for Comments

You don't often get email from tom.schauer@mcminnvilleoregon.gov. Learn why this is important

Hi All,

The City of McMinnville's Planning Department is in the process of initiating amendments to the Comprehensive Plan. The proposal would adopt the Fox Ridge Road Area Plan (Docket G 1-22) as a supplemental document to the Comprehensive Plan. The proposal would not amend the Comprehensive Plan Map or Zoning Map at this time.

We would appreciate your comments and thoughts on the attached proposed Fox Ridge Road Area Plan (see link below). https://www.mcminnvilleoregon.gov/cd/page/fox-ridge-road-area-planproject-g-1-22

Please provide your comments to us by end of day December 27, 2023. The next step will be a public hearing with the Planning Commission. The Planning Commission will hold a public hearing to consider this proposal on January 4, 2024 at 6:30 p.m.

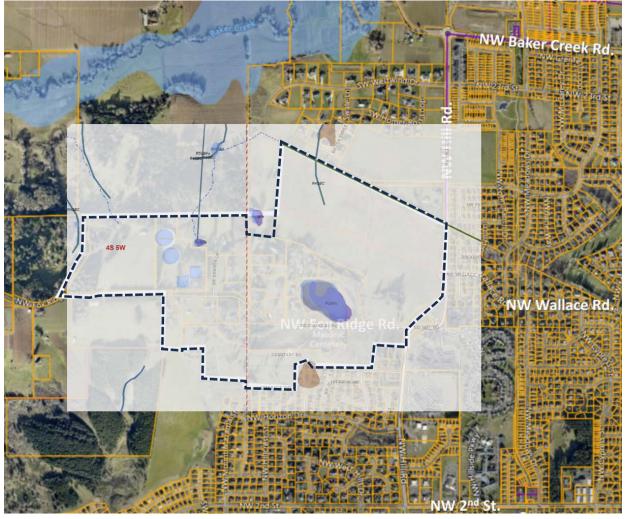
Thank you for helping us in our effort to continue to bring the best planning to the community of McMinnville.

Please note that any written comments/correspondence returned (emails/letters) regarding this request become part of the public record.

Sincerely,

· · · · · · · · · · · · · · · · · · ·	
2	

ATTACHMENT 2A



Attachment 2a. Map with State Wetlands Inventory (SWI) Overlay on Fox Ridge Road Area



EXHIBIT 4 - STAFF REPORT

DATE:	January 4, 2024
TO:	Planning Commission Members
FROM:	Heather Richards, Community Development Director
SUBJECT:	Public Hearing – Docket G 3-22, Natural Hazards

STRATEGIC PRIORITY & GOAL:



COMMUNITY SAFETY & RESILIENCY Proactively plan for & responsively maintain a safe & resilient community.



GROWTH & DEVELOPMENT CHARACTER Guide growth & development strategically, responsively & responsibly to enhance our unique character.

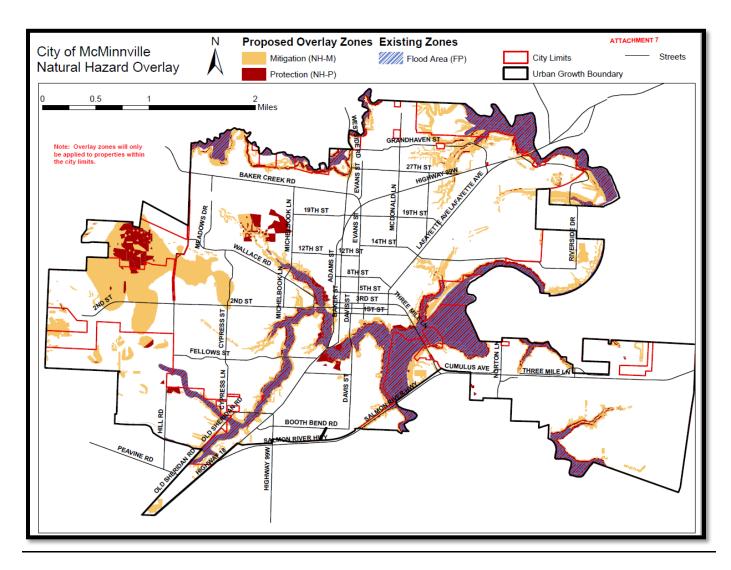
Report in Brief:

This is the continuation of a legislative public hearing to consider the following action items as a result of the City's Oregon Land Use Goal #7 work relative to Natural Hazards:

- Amendment to the McMinnville Comprehensive Plan, Volume I Background Elements, adopting the *2021 Natural Hazards Inventory and Management Program Options and Recommendations* and its Appendices (Attachments 1, 2, 3, and 4 to this staff report).
- Amendment to the McMinnville Comprehensive Plan, Volume II Goals and Policies, adding a new Chapter XI, entitled *Natural Features* (Attachment 5 to this staff report).
- Amendments to the McMinnville Municipal Code, Chapters 17.48, *Flood Area Zone*, and Chapter 17.49, *Natural Hazard Overlay Subdistricts* (Attachment 6 to this staff report).
- Amendment to the McMinnville Zone Map, adding the Natural Hazard Mitigation Zone (NH-M) and the Natural Hazard Protection Zone (NH-P) (Attachment 7 to this staff report).

A website page has been developed for this effort: Natural Hazards | McMinnville Oregon

Staff is requesting that the public hearing be continued to February 1 2024, 6:30 PM due to staffing capacity and the time needed to evaluate and incorporate public comments received from the City's Public Works team, McMinnville Water and Light, private engineers and property owners.



Background:

Natural hazard planning is not new to McMinnville. The original comprehensive plan in 1981 conducted natural hazard planning and from this effort, the Flood Area zone was realized. When new hazard inventory data becomes available from the state local governments should update their natural hazard planning programs to evaluate the new data and develop a mitigation plan if appropriate.

What is Natural Hazard Mitigation? Disasters occur when natural hazard events impact people, property and the environment. Natural hazard mitigation is the identification and implementation of actions that will reduce loss when the next disaster strikes. Implementing mitigation actions can also reduce the length of time that essential services are unavailable after a disaster, protect critical facilities, reduce economic hardship, speed recovery, and reduce construction costs. Natural hazard mitigation is any sustained action taken to reduce or remove the long-term risk to life, property, and the environment from natural hazards. It is most effective when implemented under a comprehensive, long-term natural hazards mitigation plan, and integrated into other partner plans.

What is a Natural Hazards Mitigation Plan? A natural hazards mitigation plan identifies hazards, vulnerabilities, and risks facing a local, state or tribal government, and prioritizes actions to reduce the risk.

Oregon Land Use Goal #7 (attachment 8 to this staff report) requires local governments to evaluate the risk to people and property when new hazard inventory information is available and assess the frequency, severity and location of the hazard; the effects of the hazard on existing and future development; the potential for development in the hazard area to increase the frequency and severity of the hazard; and the types and intensities of land uses to be allowed in the hazard area. In this effort, governments should allow an opportunity for citizen review and comment on the new inventory information and the results of the evaluation, and adopt or amend, as necessary, based on the evaluation of risk, plan policies and implementing measures consistent with the following principles:

- Avoiding development in hazard areas where the risk to people and property cannot be mitigated; and
- Prohibiting the siting of essential facilities, major structures, hazardous facilities and special occupancy structures, as defined in the state building code.

Oregon Land Use Goal #7 further states that state agencies shall coordinate their natural hazard plans and programs with local governments and provide local governments with hazard inventory information.

In 2018, the Oregon Department of Geology and Mineral Industries updated their geohazards data. At the same time, the US Forest Service updated their Pacific Northwest Quantitative Wildfire Risk Assessment Data.

In 2019, Yamhill County with the aid of a grant from the Federal Emergency Management Agency's (FEMA) Hazard Mitigation Program, updated the Yamhill County Multi-Jurisdictional Hazard Mitigation Plan, which was acknowledged by FEMA in December 22, 2020.

As a partner in that process, the City of McMinnville prepared an addendum to that plan that was adopted by the McMinnville City Council on December 8, 2020 by Resolution No. 2020-67. (Attachment #9 to this staff report). The McMinnville addendum identified a number of action items for the City of McMinnville including mapping and inventorying hazard areas and evaluating comprehensive plan policies and development regulations to ensure that the city is protecting people and property from natural hazard areas. (See Multi-Hazard #2, #7, #11, #12, Landslide #2 implementation actions sheets in the addendum document – attachment #9 to this staff report).

At the same time, the State of Oregon updated the Oregon Natural Hazards Mitigation Plan, which was approved by FEMA September 24, 2020.

The hazards normally identified in Oregon are floods, earthquakes, landslides, wildfires, tsunamis and coastal erosion.

The existing comprehensive plan addresses flood hazards only – consistent with Federal Emergency Management Agency (FEMA) regulations related to the National Flood Insurance Program (NFIP). The current comprehensive plan does not have a separate natural hazards element. The McMinnville Zoning Ordinance has a separate F-P Flood Hazard Zone that applies

to land within the 100-year floodplain. However, the City currently lacks development standards for geological and wildfire hazards. The McMinnville Buildable Lands Inventory indicates slopes of 25% or greater and floodplains as unbuildable consistent with applicable state law.

In 2020, the City hired Winterbrook Community Resource Planning to prepare the initial draft of the McMinnville Natural Hazards Inventory, Management Program Options and Recommendations study. The study area at that time included (a) the McMinnville Urban Growth Boundary (UGB) as it existed in June 2020 and (b) the UGB expansion study area within 1.5 miles of the existing UGB.

When the City initiated a UGB amendment process in 2020 simultaneously with the Natural Hazards Inventory and Review, the City considered the natural hazard inventory information provided in the initial draft report as part of the UGB analysis.

In December 2020, the City Council amended its UGB to include approximately 1,280 acres of land (of which 921 acres were considered "buildable"). The County subsequently adopted, and the Land Conservation and Development acknowledged, the UGB amendment in April 2021.

Figure 1 shows the 2021 UGB expansion area in relation to the previously existing 2019 and the Natural Hazards Study Area.

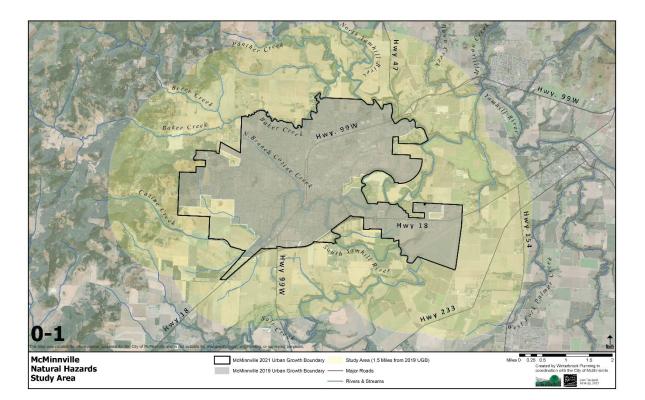


Figure 1 McMinnville 2019 UGB, 2021 UGB, and Natural Hazards Study Area

In April 2021, the City contracted with Winterbrook Planning to revise the 2020 natural hazards study to (a) focus on the expanded 2021 UGB, (b) include social vulnerabilities described in the *Oregon Natural Hazards Mitigation Plan* (Oregon NHMP) in the natural hazards composite ranking system, (c) amend the proposed Natural Hazard Mitigation and Protection maps accordingly, and

(d) prepare draft amendments to the McMinnville Zoning Ordinance to include natural hazard mitigation and protection subdistrict maps and text.

The revised study includes an inventory of natural hazards based on available mapping sources, considers alternative management options, and suggests policy and mapping amendments to the McMinnville Comprehensive Plan to systematically address McMinnville's mappable natural hazards within the 2021 UGB.¹

The revised natural hazards inventory includes a series of GIS (geographic information system) overlay maps showing moderate, high and severe hazard areas within the 2021 UGB and study area. The inventory also includes a description of the following natural hazards and how they may adversely affect life and property:

- **Geological Hazards** (areas subject to landslide, steep slope and earthquake liquefaction and shaking impacts)
- **Flood Hazards** (areas within the 100-year floodplain including the floodway)
- **Wildfire Hazards** (areas that are particularly susceptible to wildfires due to topography, fuel and settlement patterns)
- **Composite Hazards** (areas with one or more overlapping natural hazard categories)

This work resulted in proposed amendments to the McMinnville Comprehensive Plan both in terms of new inventory and recommended programs and new policies for natural hazards. It also resulted in proposed amendments to the McMinnville Municipal Code and McMinnville Zone Map, introducing two new overlay districts, the Natural Hazard – Mitigation Zone (NH-M) and the Natural Hazard Protection Zone (NH-P). Regulations for the administration of both overlay zones is proposed as a new chapter 17.49, "Natural Hazards Overlay Subdistricts".

Throughout the past two years of evaluation and draft program implementation, city staff and the Winterbrook team have conducted several work sessions with the McMinnville City Council and Planning Commission informing them of the research and evaluation and seeking policy direction on how to move forward with mitigating the risk. In August 2020, the McMinnville City Council asked city staff and the consultants to develop mitigation measures that would help to assess risk for people and property on land that had multiple hazards, and for those lands with moderate overlapping hazards to require additional assessments as part of the development review and with those lands that were identified as high hazard areas to limit development to low density and intensity development to protect people and property.

Impact to Properties:

Existing Uses are considered conforming within both the Natural Hazard Mitigation Zone and the Natural Hazard Protection Zone, and can be expanded by 50% of the habitable area without implicating the provisions of the natural hazards overlay.

The Natural Hazard – Mitigation Zone allows all permitted and conditional uses in the underlying zones to continue to be developed. However, based on the types of hazards on the property, the Community Development Director will determine if an additional study is needed to help inform

¹ Winterbrook addresses relationships among natural hazards and natural resources (such as riparian and upland wildlife habitat and scenic views and viewpoints) in a separate white paper.

the development to protect the people and property from a potential natural disaster. That study might be a geo-site assessment for those properties that have landslide, liquefaction or shaking soil hazards, or a wildfire mitigation plan for those properties within a wildfire risk area. Development on slopes greater than 15% might be required by the City Engineer to provide an erosion control plan as part of their development review.

The Natural Hazard – Protection Zone allows all permitted and conditional uses in the underlying zones but limits the intensity and density of the uses by prohibiting large format commercial development, limiting land division and residential development to one unit per lot unless a planned development process is used to locate the more intensive development on land that is less hazardous. The Natural Hazard – Protection Zone also allows for a transfer of residential density rights to other properties within the city limits.

On February 16, 2023, city staff brought the final draft recommendations to the Planning Commission for review and discussion. At that work session, the Planning Commission directed city staff to identify the impact of hazard planning on property owners from the perspective of insurance provisions, and to develop an appeal process for property owners as well as the ability for property owners in the Natural Hazards – Protection overlay where development is limited to transfer their density rights to other properties within the city.

Insurance Risk:

City staff reached out to insurance agencies to inquire about the rise of this planning effort to home insurance policies. Most homeowners and some renters have insurance to protect their home and belongings. Homeowner and renter insurance typically covers certain natural hazards, such as water damage from heavy rain or snow. As long as it can be demonstrated that a domicile has been maintained in good working order, the majority of costs for repair and replacement can be recovered.

However, homeowner and renter insurance policies almost never cover floods, hurricanes, earthquakes, and other natural hazards. Coverage of these hazards events require separate policies that the homeowner initiates on their own. Due to the earthquake subduction zone in McMinnville, the city is already tagged as a hazard area for home insurance and insurers asked did not feel that this new information would impact anything.

Appeal Process:

City staff researched appeal processes in other communities for property owners to prove that their property should not be included in a hazard overlay. Based on that research, Section 17.49.95 was added to the draft code amendments per the following:

<u>17.49.95</u> Appeal / Verification of Natural Hazards boundaries. The Natural Hazards boundaries may be appealed and must be verified occasionally to determine the true location of a hazard area and its functional values on a site. This may be through a site-specific survey or a simple site visit in those cases where existing information demonstrates that the Natural Hazard significance rating does not apply to a site-specific area. Applications for development on a site located in a Natural Hazard area may request a determination that the subject site is not subject to the standards of Chapter 17.49. Verifications / appeals shall be processed as either a Type I or Type II process as outlined below.

A. <u>Type I Appeal / Verification.</u>

1. Applicants for a determination under this section shall submit a site plan meeting the requirements of Chapter 17.72, as applicable.

- 2. An applicant may request a Type I Verification determination by the community development director. Such requests may be approved provided that there is evidence substantiating that all the requirements of this chapter relative to the proposed use are satisfied and demonstrates that the property also satisfies the following criteria, as applicable:
 - a. No natural features have been disturbed.
 - b. No natural features have been changed.
 - *c.* The property does not contain a natural hazard area as identified by the city's local natural hazards area maps.
 - *d.* Evidence of prior land use approvals that conform to the natural hazards overlay districts, or which conformed to the natural hazard area overlay district that was in effect prior to the Natural Hazards code adoption date _____.
- B. <u>Type II Appeal / Verification.</u> Verifications of the Natural Hazards areas which cannot be determined pursuant to the standards of Chapter 17.49 may be processed under the Type II permit procedure.
 - 1. Applicants for a determination under this section shall submit a site plan meeting the requirements of (site plan requirements) as applicable.
 - 2. Such requests may be approved provided that there is evidence that demonstrates in a report prepared by one or more qualified professionals with experience and credentials in natural resource areas, including wildlife biology, ecology, hydrology and forestry, that a resource function(s) and/or land feature(s) does not exist on a site-specific area.
 - *3. Verification to remove a recently developed area from the Natural Hazards shall show that all of the following have been met:*
 - a. All approved development in the Natural Hazards area has been completed
 - b. All mitigation required for the approved development has been successful.
 - *c.* The previously identified Natural Hazards area on the developed site no longer exist or have been subject to a significant impact.

Transfer of Residential Density Rights:

City staff researched transfer of density rights programs associated with natural hazard overlays in several other Oregon cities. Based on that research, Section 17.49.170 was amended to the draft code amendments per the following:

<u>17.49.170</u> Residential Density Transfer. A transfer of development density from undeveloped buildable land within the Natural Hazard Protection zone to other property within the city limits is encouraged. Density transfer may occur through the planned development process, as indicated below.

- A. <u>Development Density to Transfer from National Hazard Protection Zone (NH-P).</u> The land area from which density can be transferred excludes developed and unbuildable areas, such as riparian corridors, slopes 15% or greater, and easements. 50% of the development density of identified qualifying land within the land area may be transferred to any other residential zone.
- B. <u>Development Density in Receiving Area.</u> Up to a maximum 20% reduction in average minimum lot size or lot area per unit requirements is allowed in order to accommodate the density transfer. Developments utilizing a transfer of density will need to apply for a Planned Development pursuant to Chapter 17.51.
- *C.* <u>If Density Transfer is Not Feasible.</u> In situations where density transfer is not feasible, a maximum of one dwelling unit per 2.5 acres may be allowed on land zoned for residential use within the NH-P Subdistrict, consistent with the recommendations of a geotechnical engineering study and any conditions required by the review authority.
- D. <u>Recording of Density Transfer.</u> In all cases where this bonus is used, covenants or other legally binding agreements that run with the land <u>shall</u> preclude the <u>development</u> of the land from which the density is transferred. The covenants or other legally binding agreements <u>shall</u> be recorded before the transferred density <u>may</u> be used.

Public Engagement:

The City sent out notices to all impacted property owners both within the city limits and outside of the city limits but within the UGB (although the zoning overlays will not apply until such time that the property is annexed into the city limits), informing them of the proposed amendments and inviting them to one of two public information sessions hosted on March 20 and March 27. City staff also set up a project website with an interactive map to help property owners understand the hazards that were identified on their properties and have been meeting with impacted property owners to answer their questions and concerns.

At the public hearing on April 6, 2023, the Planning Commission heard testimony from some property owners who questioned the veracity of the data and the resulting requirements of the overlays as a result of that data.

Planning Commission then had a discussion, electing to continue the public hearing and directing city staff to do some more research on the following:

Transfer of Development Rights Program: Planning Commissioners asked if the development rights could be sold; if the property owner needed to own both the giving property and the receiving property; and asked city staff to research a program with 100% transfer of development rights rather than the 50% recommended.

After some research and evaluation, staff is recommending that the city process for the program be fairly simple. The City would provide a certificate to the giving property that is recorded on the city's internal lien system. Any transfer of density rights program application would have the giving property owner's signature and the receiving property owner's signature as well as the certificate signed over to the receiving property, so that the City is not managing the density rights as commodities. Please see recommended amendments to the proposed code in red below.

<u>17.49.170</u> Residential Density Transfer. A transfer of development density from undeveloped buildable land within the Natural Hazard Protection zone to other property within the city limits is encouraged. Density transfer may occur through the planned development process, as indicated below. The transferring property does not need to be owned by the property owner of the receiving property, but both property owners need to sign the density transfer application to memorialize the transfer.

- E. <u>Development Density to Transfer from National Hazard Protection Zone (NH-P).</u> The land area from which density can be transferred excludes developed and unbuildable areas, such as riparian corridors, slopes 15% or greater, and easements. 100% of the development density of identified qualifying land within the NH-P zone may be transferred to any other residential zone.
- F. <u>Development Density in Receiving Area.</u> Up to a maximum 20% reduction in average minimum lot size or lot area per unit requirements, is allowed in order to accommodate the density transfer. Developments utilizing a transfer of density will need to apply for a Planned Development pursuant to Chapter 17.51.
- G. <u>If Density Transfer is Not Feasible.</u> In situations where density transfer is not feasible, a maximum of one dwelling unit per 2.5 acres may be allowed on land zoned for residential use within the NH-P Subdistrict, consistent with the recommendations of a geotechnical engineering study and any conditions required by the review authority.
- H. <u>Recording of Density Transfer.</u> In all cases where a residential density transfer is used, covenants or other legally binding agreements that run with the land <u>shall</u> preclude the further <u>development</u> of the land from which the density is transferred. The covenants or other legally binding agreements shall be recorded before the transferred density may be used.

Veracity of the Data: Planning Commissioners asked city staff to meet with DOGAMI and DLCD staff about the veracity of the data and ask if DOGAMI and DLCD staff could join the Planning Commission at a future meeting.

City staff organized a meeting with DOGAMI (Bill Burns, Engineering Geologist) and DLCD (Katherine Daniel, Natural Hazards Planner) to discuss the City's efforts, the reliance on DOGAMI data and whether the City's current proposed program was meeting the intent and mandate of Goal 7. Both staff representatives said that the City was doing what it needed to do with the best data available to the City and were supportive of the City's efforts.

They have been invited to the June 15 Planning Commission meeting.

Types of Reports Required: Some of the property owners that testified expressed their concerns with the added costs of the reports required if their property was in one of these overlays. Planning Commissioners asked city staff to research whether there were other distinctive levels of data analysis that were less expensive than a Geological Site Assessment or a Geotechnical Report that could be required prior to the property owner incurring the expense for those reports.

City staff reached out to a couple of different Geo-Tech firms and are still researching whether there is a preliminary assessment that could be done prior to the Geo Site Assessment outlined in the code.

Below is a link to a document that DOGAMI and DLCD staff prepared. In this document there is considerable discussion on how cities should mitigate hazards with site assessments and geotech reports.

Preparing for Landslide Hazards: A Land Use Guide for Oregon Communities

How to decide if a site-specific report is needed.

The general term geologic report refers to the engineering geologic report and the geotechnical engineering report. The difference is as follows:

- Engineering geologic reports focus on how the earth (e.g., landforms, water table, soil, and bedrock) and earth processes (e.g., landslides and earthquakes) impact structures or potential structures and describe the degree of risk.
- Geotechnical engineering reports focus on the design of building products (e.g., structures, retaining walls, pavements) that can withstand or mitigate for subsurface and geologic conditions.
- <u>There are two kinds of reports.</u> The local jurisdiction develops its own criteria for triggering its geologic report (engineering geologic report or geotechnical engineering report) requirement on a site by site basis. For example, some communities adopt landslide hazard maps produced by DOGAMI and use these maps to determine if a site is in a hazard zone. If a site is in a hazard zone, generally a report is required. Communities may also use criteria such as percent slope or soil type to trigger a report requirement.
- Licensed professionals are generally required to stamp and sign their work products to identify for the public responsibility for the work. OSBGE and OSBEELS have requirements for stamp design and use. For geology work products, stamping requirements are as follows:
 - When one geologist prepares all the geology work products in a report, that geologist must stamp and sign the final report.
 - When multiple licensed professionals contribute work products to a report (for example, an RG or PE/GE contributing work products to a final report signed and stamped by a CEG), each professional must individually sign and stamp their own work products.

Discussion:

At the public hearing on May 4, 2023, the Planning Commission reviewed the proposed revised code amendments for Section 17.49.170, Residential Density Transfer. There was ensuing discussion about ensuring that the transfer was 100% proportional to the net results of the restrictions imposed by the overlay zone and that the transfer could be received by any qualifying property within the city limits, but that it would be transferred to just one receiving property. Based on that discussion the following additional amendment was made to Section 17.49.170(B).

<u>Development Density in Receiving Area.</u> Up to a maximum 20% reduction in average minimum lot size or lot area per unit requirements, is allowed in order to accommodate the density transfer. Developments utilizing a transfer of density will need to apply for a Planned Development pursuant to Chapter 17.51. The receiving area needs to be one parcel prior to subdivision.

The City also received comments from the Department of Land Conservation and Development, the McMinnville Public Works Department, McMinnville Parks and Recreation Department, McMinnville Water and Light, and private engineers and property owners. These are currently being evaluated and incorporated into the proposed program and amendments as appropriate.

Staff is requesting more time for that evaluation and incorporation into the recommendation that goes back to the Planning Commission so that the interested parties can review the resulting amendments prior to presenting them to the Planning Commission.

Staff Recommendation:

Staff is recommending that the Planning Commission continue the public hearing to Thursday, February 1, 2024, 6:30 PM.

"I MOVE THAT THE PLANNING COMMISSION CONTINUE THE PUBLIC HEARING FOR DOCKET G 3-22 TO THE FEBRUARY 1, 2024 PLANNING COMMISSION MEETING, 6:30 PM."