# **Umatilla County**

pard of County Commissioners



### A G E N D A UMATILLA COUNTY BOARD OF COMMISSIONERS

Meeting of Wednesday, January 18, 2017 at 10:00 a.m. Umatilla County Courthouse, 216 SE 4<sup>th</sup> St., Room 130, Pendleton, OR

- A. CALL TO ORDER
- B. TEXT AMENDMENT, #T-16-070, co-adopt City of Weston Transportation System Plan. The city of Weston requests the county co-adopt their existing Transportation System Plan (TSP) and TSP update. The TSP will apply to development within the Weston Urban Growth Area. The criteria of approval are found in UCDC 152.750-152.754 and the Joint Management Agreement between the City and County.
- C. TEXT AMENDMENT, #T-16-071, co-adopt City of Pilot Rock Transportation

  System Plan. The City of Pilot Rock requests the county co-adopt their existing

  Transportation System Plan (TSP). The TSP will apply to development within the Pilot

  Rock Urban Growth Area. The criteria of approval are found in UCDC 152.750-152.754

  and the Joint Management Agreement between the City and County.
- D. <u>INTERGOVERNMENTAL AGREEMENTS:</u>

Updates to the current Joint Management Agreements (JMA) between Umatilla County and the City of Umatilla and City of Hermiston presented to the Board of County Commissioners, including recommendations from the Planning Commission.

E. ADJOURN

## DRAFT MINUTES UMATILLA COUNTY PLANNING COMMISSION

Meeting of Thursday, December 15, 2016 6:30 p.m., Umatilla County Justice Center, Media Room Pendleton, Oregon

**COMMISSIONERS** 

PRESENT:

Randy Randall, Chair, Gary Rhinhart, Vice Chair, Suni Danforth,

Don Marlatt, Don Wysocki, Tammie Williams, Tami Green,

Clive Kaiser

**ABSENT:** 

Cecil Thorne

**STAFF:** 

Tamra Mabbott, Carol Johnson, Brandon Seitz, Bob Waldher,

Tierney Dutcher

NOTE: THE FOLLOWING IS A SUMMARY OF THE MEETING. A RECORDING OF THE MEETING IS AVAILABLE AT THE PLANNING DEPARTMENT OFFICE.

#### **CALL TO ORDER:**

Commissioner Rhinhart called the meeting to order at 6:32 p.m. and read the opening statement.

#### MINUTES:

Commissioner Rhinhart asked the Planning Commission to review the minutes from August 25, 2016. Chair Randall moved to adopt the minutes as written. The motion was seconded by Commissioner Danforth. Motion carried by consensus.

#### **NEW HEARING**

TEXT AMENDMENT, #T-16-068, PLAN AMENDMENT #P-117-16, and ZONE MAP AMENDMENT, #Z-309-16 application submitted by the OREGON DEPARTMENT OF TRANSPORTATION (ODOT). The applicant requests to add an expansion of an existing quarry (Meacham Quarry) to the Umatilla County Comprehensive Plan list of Goal 5 protected Significant Sites and apply the Aggregate Resource (AR) Overlay Zone to the entire quarry site. The proposed expansion would add approximately 19 acres to the existing Goal 5 protected site. The property is located off the west side of the Old Oregon Trail Highway, described as Township 1 North, Range 35 East, Section 34, Tax Lots 800, 900, and 1000, and Township 1 South, Range 35 East, Section 03AB, Tax Lot 100. The existing quarry is zoned Grazing Forest (GF) with Aggregate Resource overlay (AR). The proposed expansion area is currently zoned GF and Forest Residential (FR). The criteria of approval are found in Oregon

Administrative Rule (OAR) 660-023-040-050, 660-023-0180 (3), (5) and (7), and Umatilla County Development Code (UCDC) 152.487 – 488.

Commissioner Rhinhart called for the Staff Report.

Staff Report: Robert Waldher, Senior Planner, presented the staff report. He stated that ODOT is requesting to expand the Meacham Quarry by about 19 acres. They are requesting to add tax lots 800, 900, 1000 and 100 to the existing 35.7 acre Goal 5 protected site, which is tax lot 400. The UCDC has not been updated with the Division 23 Rules for Aggregate. Therefore, the OAR 660-023-0180 to establish a Goal 5 Large Significant Site will be directly applied to this application. This application constitutes a Post Acknowledgement Plan Amendment (PAPA) and is subject to the criteria listed in Oregon Administrative Rules (OAR) 660-023-0030 through 0050, and OAR 660-023-0180. In addition, Umatilla County Development Code (UCDC) Sections 152.487 and 152.488 will be applied.

Mr. Waldher stated that we have a responsibility to review and process ODOT's request to amend the Comprehensive Plan and establish an AR overlay to protect the site. The Planning Commission's task is to determine whether or not the application complies with the applicable land use standards.

When preparing the staff report, it was discovered that the proposed expansion does not meet UCDC Section 152.487(A) (3), which requires a proposed overlay to be at least 1,000 feet from properties zoned for residential use. There is an area of Forest Residential (FR) zoned property to the West of the Meacham Quarry, as well as the Unincorporated Community of Meacham located to the South. Even though amending the Comprehensive Plan is a legislative process, County Counsel suggested that the applicant apply for a Variance from the setback requirement since it could provide relief from the UCDC criteria, not the State OAR's which must be adhered to.

Mr. Waldher stated that the applicant has requested the Planning Commission continue tonight's hearing to January 26, 2017 to allow them time to complete a Variance application. Due to the road conditions the applicant is unable to attend tonight's hearing but they did email Mr. Waldher with the request to continue the hearing in January.

Commissioner Kaiser stated that he did some research using Google Maps. He noted that he did not see any pooling water at this time and asked if their future plans include pooling water. Mrs. Mabbott replied that it's not typical with a quarry. Commissioner Kaiser replied that it depends on how deep they plan on going. Mrs. Mabbott stated that they plan to go into the side of the hill. Mr. Waldher said he believes they will be blasting but does not know to what depth. Mr. Kaiser pointed out that on page 24 of the packet, the applicant refers to pooling water. Commissioner Rhinhart stated that the area they plan to expand is quite wet so it is a concern. Commissioner Kaiser stated that he has an experience in the past where a quarry has pooled water which became toxic. They had to fence the quarry off so the wildlife in the area did not have access to the water. He would like to see pooling water tested annually and a mitigation plan for mosquitos. Mr.

Waldher noted their concerns and will address them with the applicant so they can be discussed at the continued hearing. Commissioner Rhinhart stated that there is a small stream running to the south of the project, Beaver Creek, so those are questions that need to be asked. Commissioner Kaiser added that if they do have a pond, he would like to know if they plan to seal the bottom of it to prevent leaching into Meacham's shallow aquafer. Mrs. Mabbott stated that those are good questions and they will be forwarded to the applicant for review.

Commissioner Kaiser motioned to continue the hearing. Motion was seconded by Commissioner Marlatt and the motion was passed by consensus. The hearing will be continued to the January 26, 2017, 6:30pm Planning Commission hearing at the Justice Center in Pendleton, Oregon.

#### **NEW HEARING**

**TEXT AMENDMENT, #T-16-070, co-adopt City of Weston Transportation System Plan (TSP).** The city of Weston requests the county co-adopt their existing TSP and TSP update. The TSP will apply to development within the Weston Urban Growth Area. The criteria of approval are found in UCDC 152.750-152.754 and the Joint Management Agreement between the City and County.

Commissioner Rhinhart called for declarations of ex-parte` contact, biases, conflicts of interest or abstentions from any member of the Planning Commission. There were none. He called for the staff report.

**Staff Report:** Brandon Seitz, Assistant Planner, presented the staff report. He stated that Commissioner Kaiser found an error in the Planning Commission packets. Pages 39-71 were scanned in reverse order. In Weston's 2001 TSP, near the end of the table of contents, it jumps to the middle of chapter 6 then goes in reverse order through chapter 1 and the last couple pages of the table of contents. Then, it resumes chapter 6 on page 72 and everything is in the correct order from there.

As part of a review of the County's Transportation Systems Plan it was determined that the County has not formally co-adopted all of the Cities TSP's, and Weston is one of the cities. The proposed amendment would co-adopt two documents, the TSP adopted by the City in 2001 and the TSP update that was formally adopted by the City on August 12, 2015 by City Ordinance #153-2015. The Planning Commission will be making a recommendation to the Board of County Commissioners for co-adoption.

The 2001 TSP was prepared by David Evans and Associates as a part of a countywide effort to prepare TSPs for the County and 8 of the small municipalities. Each plan was developed through a series of technical analyses combined with input and review by the County, City, ODOT and the public. The TSP plan includes the entire area within Weston's Urban Growth Boundary (UGB). Roadways included in the TSP fall under 3 jurisdictions; the City, the County and ODOT. The plan includes a review of existing plans and transportation conditions; developing population, employment and travel

forecast, developing and evaluating potential transportation system improvements, developing the TSP and capital improvements plan, evaluating funding options and financial plan and developing recommendations for policies and ordinances.

The second document for Weston is the 2015 TSP update. The TSP update builds off the previously adopted plan. Included is an updated multimodal transportation projects list with 4 projects outside the UGB, updated street design standards to include storm water treatment and streetscape/urban design improvements. Another major emphasis of the TSP update was the pedestrian systems within the city generally to improve walking conditions around Weston.

A main item for consideration is the 4 projects identified outside the UBG. The projects include; OR 11 Freight signing to direct freight traffic to use key road for accessing the food processing facilities, and realign Water Street to intersect OR 204 at an approximately 90 degree angle. Both projects would be implemented by ODOT. The Weston-Athena Multimodal Connection plan would construct a shared use path along Banister Road from approximately Mill Street to OR 11. The path would provide an option for people to walk and bike between Weston and Athena. Weston children attend elementary and high school in Athena and the Middle School is located in Weston. There are a number of challenges to consider. Banister Road is a County road and has a 60' right-of-way. Additional right-of-way may be necessary along with topography issues along the road. The final project outside the UGB and part of the overall path is a pedestrian crossing over Highway 11. There is a desire within the two communities to provide a viable route for people to walk and bike between the two cities.

Commissioner Rhinhart asked if the plans included any details about designing the highways and best management practices (BMPs) for protecting water quality. Mr. Seitz said those issues are generally not part of the TSP and there is nothing related to the creek in the plan. Tamra Mabbott, Planning Director, said she did not look close enough to see if the creek is impacted but added that it is outside the scope of the TSP. She said she has a high-level of confidence with ODOT because they take a detailed environmental engineering approach to projects. She does not think the TSP adoption is the best avenue for approaching those issues. Mr. Seitz reminded Commissioner Rhinhart that, Jennifer Spurgeon, Weston Mayor-Elect, and Duane Thul, Weston Mayor, and is in attendance via conference call. Mrs. Spurgeon stated that over the last couple of years they have worked with ODOT to address traffic/growth management in the City. They consulted with the Tribes and discussed what future development means for the creek ways. They made sure to include interested parties in the process.

Commissioner Danforth stated that on page 146 of the Planning Commission packets there is a map with proposed revisions of the intersection of Water Street and Main Street. It appears that parking will be recessed toward the sidewalk and the curbs will be sticking out at the corners. She wanted to make note that when the curbs are constructed that way they hinder the ability for delivery trucks to make safe turns on the corners. Mr. Thul said that issue was brought up at a previous meeting. He said the plans are not final, they can be changed as they progress. Commissioner Kaiser stated that his office had a

wall and roof taken out by one of those trucks. He believes semi-truck drivers are not being sensible about where they are turning. There should be better signage encouraging them to go straight through to Highway 11 rather than turning on Main Street. He said the issue could be alleviated with more signage for the truck drivers. Commissioner Danforth added that the design may cause issues with road maintenance during winter time. Mr. Thul said the designer claimed that the inlays would not interfere with a snow plow. Mrs. Mabbott stated that she hopes Weston can get the gateway project funded through ODOT, etc. She proposed sitting down with Mrs. Spurgeon and Mr. Thul along with a Commissioner and Legislator to develop a strategy. Mr. Thul said that would be great. Commissioner Danforth said she thinks the whole project connecting Weston with Athena is awesome. Mr. Kaiser wanted to be sure Mr. Seitz received his corrections for page 33 in the packet. Mr. Seitz said he will make those corrections.

Chair Randall motioned to recommend adoption of the Weston TSP to the Board of County Commissioners. Commissioner Wysocki seconded the motion and it was approved by consensus.

Mrs. Mabbott reminded the Planning Commissioners that, even though this is a recommendation to the Board of Commissioners, the Commissioners read the minutes very carefully and take into consideration the comments the Planning Commission makes.

#### **NEW HEARING:**

**TEXT AMENDMENT, #T-16-071, co-adopt City of Pilot Rock Transportation System Plan.** The city of Pilot Rock requests the county co-adopt their existing TSP. The TSP will apply to development within the Pilot Rock UGB. The criteria of approval are found in UCDC 152.750-152.754 and the Joint Management Agreement (JMA) between the City and County.

Commissioner Rhinhart called for declarations of ex-parte' contact, biases, conflicts of interest or abstentions from any member of the Planning Commission. There were none. He called for the staff report.

Staff Report: Brandon Seitz, Assistant Planner, presented the staff report. He stated that Pilot Rock is another smaller municipality that has not been formally adopted by the County. Pilot Rock's TSP was prepared as part of the overall effort in 2001 to prepare TSP's for the County and smaller cities. It was also prepared by David Evans and Associates and has the same basic elements, but adapted to Pilot Rock. The plan was developed through a series of technical analyses combined with input and review by the County, City, ODOT and the public. The TSP includes the entire area within Pilot Rock's UGB. Roadways include in the TSP fall under three jurisdictions; the City, County and ODOT. The plan includes; a review of existing plans and transportation conditions, developing population, employment and travel forecast, developing and evaluating potential transportation system improvements, developing the TSP and capital

improvements plan, evaluating funding options and financial plan and developing recommended policies and ordinances. Pilot Rock adopted their TSP on July 17, 2001.

Commissioner Kaiser stated that it appears the TSP needs to be updated every 20 years and it was done in 2001, so that means they are due to be updated again soon. Mr. Seitz acknowledged that it will need to be updated soon. The County's wants to be sure all the cities TSP's have been adopted formally. Mrs. Mabbott said this will complete the inventory of all the Cities TSP's. Commissioner Rhinhart wants to be sure they are paying attention to BMPs for water quality as Pilot Rock has water quality limited stream and endangered fish.

Commissioner Wysocki motioned to recommend adoption of the Pilot Rock TSP to the Board of County Commissioners (BCC). Commissioner Danforth seconded the motion and the motion was approved by consensus.

#### **INTERGOVERNMENTAL AGREEMENTS:**

Updates to the current JMAs between Umatilla County and the City of Umatilla and City of Hermiston are presented for the Planning Commission's decision and recommendation to the Board of Commissioners.

Carol Johnson, Senior Planner, explained that Mrs. Mabbott met with City staff and others over the last 2 years, working with the City of Hermiston on road updates focused on trying to transfer the roads to the City that are within City Limits and UGB. This has resulted in some updated language in the Hermiston JMA that addresses how we handle roads and road transfers. The Umatilla JMA update has some language about roads but also transfers permitting actions for the UGB from the County to the City. Prior to the update, the County had issued all the permits for land use in the City of Umatilla UGB, but the City will take that over with adoption of the updates.

Mrs. Johnson noted that Commissioner Kaiser pointed out a few errors in the packet to be corrected. She will make those edits for the final copy. She stated that we are happy to move this forward to the BCC.

Commissioner Kaiser stated that he read through both JMA's and he is concerned that the Lower Umatilla Basin Groundwater Management Area (LUBGWMA) is not addressed. Mrs. Mabbott stated that it is an excellent idea. She doesn't think it will have any binding effect but will memorialize the fact that both cities are entirely in the LUBGWMA, and encourage the cities to take whatever measures they can to be involved in the GWMA. Actions the cities take in terms of storm water management, etc. could affect the LUBGWMA. Mrs. Mabbott said she and Mrs. Johnson would work on some language and talk with both Cities to add that to the JMA.

Commissioner Kaiser motioned to recommend support and adoption of the Joint Management Agreements (JMA) between Umatilla County and the City of Umatilla and

City of Hermiston to the BCC. Commissioner Rhinhart seconded the motion and the motion was approved by consensus.

OTHER	<b>BUSINESS</b> :

None

#### **ADJOURNMENT:**

Commissioner Rhinhart adjourned the meeting at 7:19 p.m.

Respectfully submitted,

Tierney Dutcher Administrative Assistant

(Minutes adopted by the Planning Commission on \_\_\_\_\_\_)

# CITY OF WESTON

# Transportation System Plan

# **Umatilla County**

#### Department of Land Use Planning

DIRECTOR TAMRA MABBOTT

LAND USE PLANNING, **ZONING AND** PERMITTING

CODE

ENFORCEMENT

SOLID WASTE **COMMITTEE** 

SMOKE

MANAGEMENT

GIS AND **MAPPING** 

RURAL ADDRESSING

LIAISON, NATURAL **RESOURCES & ENVIRONMENT** 

MEMO

TO:

**Umatilla County Board of Commissioners** FROM: Brandon Seitz, Assistant Planner

DATE: January 10, 2017

CC:

RE:

Tamra Mabbott, Planning Director

Doug Olsen, County Counsel

January 18, 2017, Board of Commissioners Hearing

City of Weston TSP Co-adopt Text Map Amendment, #T-16-070

Umatilla County is in the process of reviewing the County Transportation System Plan (TSP). As part of the review it was determined that the County has never formally adopted the City of Weston's TSP. Co-adoption provides an opportunity for both agencies to work together to implement the plan in all of the relevant planning documents.

Weston's TSP was prepared as part of an overall effort in 2001 to prepare TSPs for the County and eight smaller municipalities. The document establishes the City's road classification plan and standards. It also establishes a multimodal system plan. The document applies to all the transportation systems and plans within City Limits and the Urban Growth Boundary (UGB). Also established is a 20-year list of the City's Capital Improvement Projects.

Weston's TSP was amended on August 12, 2015 by City of Weston Ordinance number 153-2015. The document modified the City's road standards within the City and UGB. It also modified the pedestrian, freight. transit and bicycle systems plan. Also incorporated in the plan is a suite of projects focused on improving the multimodal movement of people and goods throughout Weston and the surrounding area. Included in the list are four projects located outside the City's UGB. The projects identified in Weston's TSP update located outside the UGB will require coordination between the



City of Weston

Transportation System Plan

Final Report

**June 2001** 

Prepared by:

David Evans and Associates, Inc. and
Umatilla County in coordination with
Oregon Department of Transportation

#### TABLE OF CONTENTS

	Page
CHAPTER 1: INTRODUCTION	1-1
PLANNING AREA	1-1
PLANNING PROCESS	1-1
Community Involvement	1-2
Goals and Objectives	1-2
Review and Inventory of Existing Plans, Policies, and Public Facilities	1-2
Future Transportation System Demands	1-3
Transportation System Potential Improvements	1-3
Transportation System Plan	1-3
Funding Options	1-3
Recommended Policies and Ordinances	1-3
RELATED DOCUMENTS	1-4
In-Process or Completed Plans	1-4
Other State Plans	1-6
CITADEED 4. COALGAND OF ECONOMIC	
CHAPTER 2: GOALS AND OBJECTIVES	2-1
OVERALL TRANSPORTATION GOAL	2-1
Goal 2	2-1
Goal 2	2-1
Goal 4	2-2
Goal 4	2-2
Goul J	2-3
CHAPTER 3: TRANSPORTATION SYSTEM INVENTORY	3-1
STREET SYSTEM	
City Street Classification	3-1
Street Layout	3-2
State Highways	3-2
OR 204	3-2
GENERAL PAVEMENT CONDITIONS	3-3
City Streets	3-3
State Highways	3-3
BRIDGES	3-3
PEDESTRIAN SYSTEM	3-4
BIKEWAY SYSTEM	3_4
PUBLIC TRANSPORTATION	3-5
RAIL SERVICE	3_5
AIR SERVICE	3_5
PIPELINE SERVICE	3-6
WATER TRANSPORTATION	3-6
CHAPTED A. CHIDDENT TO ANCHORUS GONDATION CONTRACTOR	
CHAPTER 4: CURRENT TRANSPORTATION CONDITIONS TRAFFIC VOLUMES	
· · · · · · · · · · · · · · · · · · ·	4-1

Average Daily Traffic	4-)
Street Capacity	4-1
TRANSPORTATION DEMAND MANAGEMENT MEASURES	4-3
Alternative Work Schedules	4-3
I ravel Mode Distribution	4-4
ACCIDENT ANALYSIS	4-5
CHAPTER 5: TRAVEL FORECASTS	5-´
LAND USE	5-1
Historic Growth	5-2
Projected Growth	5-2
TRAFFIC VOLUMES	5-3
Historic	5-3
HIGHWAY SYSTEM CAPACITY	5-4
Analysis Results	5-4
CHAPTER 6: IMPROVEMENT OPTIONS ANALYSIS	6-1
EVALUATION CRITERIA	6-1
STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM PROJECTS	6-1
COUNTY TRANSPORTATION IMPROVEMENT PROJECTS	6-2
IMPROVEMENT OPTIONS EVALUATION	6-2
SUMMARY	6-5
CHAPTER 7: TRANSPORTATION SYSTEM PLAN	7_1
STREET DESIGN STANDARDS	7_1
Existing Street Standards	7-1
Recommended Street Standards	7-1
ACCESS MANAGEMENT	7-5
Access Management Techniques	
Recommended Access Management Standards	7-6
ACCESS CONTROL RIGHTS	<i>.</i> 7-7
MODAL PLANS	7-7
Street System Plan	7-7
Pedestrian System Plan	7-9
Bicycle System Plan	7-10
Transportation Demand Management Plan	7-10
Public Transportation Plan	7-11
Rail Service Plan	7-11
Air Service Plan	7-12
Pipeline Service	7-12
Water Transportation	7-12
TRANSPORTATION SYSTEM PLAN IMPLEMENTATION PROGRAM	7-12
20-Year Capital Improvement Program	7-12
CHAPTER 8: FUNDING OPTIONS AND FINANCIAL PLAN	8-1
HISTORICAL STREET IMPROVEMENT FUNDING SOURCES	8-1
Transportation Funding in Umatilla County	8-2
Revenues and Expenditures in the City of Weston	8-3
Transportation Revenue Outlook in the City of Weston	8-4
REVENUE SOURCES	8-6

Property Taxes	8-6
System Development Charges	8-7
State Highway Fund	8-8
Local Gas Taxes	8-8
Vehicle Registration Fees	8-8
Local Improvement Districts	8-8
GRANTS AND LOANS	8-9
Bike-Pedestrian Grants	8-9
Access Management	8-9
Enhancement Program	8-9
Highway Bridge Rehabilitation or Replacement Program	8-10
Transportation Safety Grant Program	8-10
Federal Transit Administration (FTA) Section 5311-Non-urbanized Area Formula Program	8-10
Surface Transportation Program (STP) Funds	8-10
Department of Labor Welfare-to-Work Program	8-11
FTA Section 5310 Discretionary Grants	8-11
Special Transportation Fund	8-11
County Allotment Program	8-11
Immediate Opportunity Grant Program	8-12
Oregon Special Public Works Fund	8-12
Oregon Transportation Infrastructure Bank	8-12
ODOT FUNDING OPTIONS	8-13
FINANCING TOOLS	8-13
General Obligation Bonds	8-14
Limited Tax Bonds	8-14
Bancroft Bonds	8-14
FUNDING REQUIREMENTS	8_14

#### **APPENDICES**

APPENDIX A: REVIEW OF CITY PLANS AND POLICIES

APPENDIX B: 1997 MAJOR STREET INVENTORIES

APPENDIX C: UMATILLA COUNTY POPULATION DISCUSSION -

UMATILLA COUNTY POPULATION ANALYSIS

#### LIST OF TABLES

#### LIST OF FIGURES

	Follows Page
FIGURE 1-1: PLANNING AREA-WESTON	1-2
FIGURE 3-1: ROADWAY FUNCTIONAL CLASSIFICATION-WESTON	3-2
FIGURE 3-2: PEDESTRIAL SYSTEM INVENTORY-WESTON	3-4
FIGURE 6-1: POTENTIAL TRANSPORTATION SYSTEM IMPROVEMENTS-WESTON	6-2
FIGURE 8-1: STATE HIGHWAY FUND	8-5
FIGURE 7-1: RECOMMENDED STREET STANDARDS ARTERIAL AND COLLECTOR STREETS	7-2
FIGURE 7-2: RECOMMENDED STREET STANDARDS LOCAL RESIDENTIAL AND ALLEYS	7-2
	Раде
Figure 8-1: state highway fund	•
LICORD O I. GITTLE HIGH WALL OND ENGINEERING FRANCISCH F	0-2

#### **CHAPTER 1: INTRODUCTION**

The City of Weston Transportation System Plan (TSP) guides the management of existing transportation facilities and the design and implementation of future facilities for the next 20 years. This TSP constitutes the transportation element of the City's Comprehensive Plan and satisfies the requirements of the Oregon Transportation Planning Rule (TPR) established by the Department of Land Conservation and Development. It identifies and prioritizes transportation projects for inclusion in the Oregon Department of Transportation's (ODOT's) Statewide Transportation Improvement Program (STIP).

#### PLANNING AREA

The city of Weston's TSP planning area covers the entire area within the Weston Urban Growth Boundary (UGB). Roadways included in the TSP fall under three jurisdictions: the city of Weston, Umatilla County, and the state of Oregon.

Weston has approximately 680 residents and is located in the northeastern portion of Umatilla County in the northeastern corner of Oregon. The City is one of the oldest cities in the county and has a charming, historical character. The City is built along the Pine Creek canyon with the downtown and roughly half of the residential area built on the valley floor. The industrial development and remaining homes are built on the hillsides. The downtown is a grid with one- and two-story brick buildings built out to the sidewalks. Commercial development and city services are concentrated along Main Street. Weston's two schools, the Athena-Weston Junior High and the Weston Elementary School, are located downtown off of Wallace Street. Industrial lands are located in the northern part of the UGB, near the railroad.

The only state facility that runs through the UGB is OR 204 (Weston-Elgin Highway). This highway connects the City to OR 11 in the north, and to the city of Elgin in Union County to the east (see Figure 1-1).

Three county roads exist within the UGB: Key Road (No. 682) running northwest-southeast in the northern portion of the UGB, McLean Road (No. 675) running north-south in the southern portion of the UGB, and Kirk Road (No. 648) in the eastern section of town. Several other county roads approach the UGB such as Bannister Road (No. 750) running east-west near the southern boundary of the UGB. The City has jurisdiction over the rest of the existing roadways located in the northwestern portion of the study area.

Agriculture, food processing, and education are important employment sectors in the City. Weston has two major food processing plants that are major employers for the City, as well as the surrounding towns. A large amount of the town is currently being farmed for wheat and peas. Additionally, the local schools provide many jobs.

#### PLANNING PROCESS

The Weston TSP was prepared as part of an overall effort in Umatilla County to prepare TSPs for Umatilla County and eight small municipalities: the cities of Adams, Athena, Echo, Helix, Pilot Rock, Stanfield, Ukiah, and Weston. Each plan was developed through a series of technical analyses combined with systematic input and review by the county, the cities, the management team, the Transportation Advisory Committee (TAC), ODOT, and the public. The TAC consisted of staff, elected and appointed officials, residents, and business people from Umatilla County, and the eight cities. Key elements of the process include:

- Involving the Weston community (Chapter 1)
- Defining goals and objectives (Chapter 2)
- Reviewing existing plans and transportation conditions (Chapters 3, 4, and Appendices A and B)
- Developing population, employment, and travel forecasts (Chapter 5, and Appendix C)
- Developing and evaluating potential transportation system improvements (Chapter 6)
- Developing the Transportation System Plan and a capital improvement plan (Chapter 7)
- Evaluate funding options and develop financial plan(Chapter 8)
- Developing recommended policies and ordinances (Chapter 9)

#### **Community Involvement**

Community involvement is an integral component in the development of a TSP for the city of Weston, Umatilia County, and each of the other seven cities covered under the Umatilia County TSP process. Since the communities faced many similar transportation and land use issues, a public involvement program involving all the jurisdictions was used. This process allowed for individual attention when needed, and general problem solving for all jurisdictions as appropriate. Several different techniques were utilized to involve each local jurisdiction, ODOT, and the general public.

A combined management team and TAC provided guidance on technical issues and direction regarding policy issues to the consultant team. Staff members from each local jurisdiction and ODOT and a local resident from each community served on the TAC. This group met several times during the course of the project.

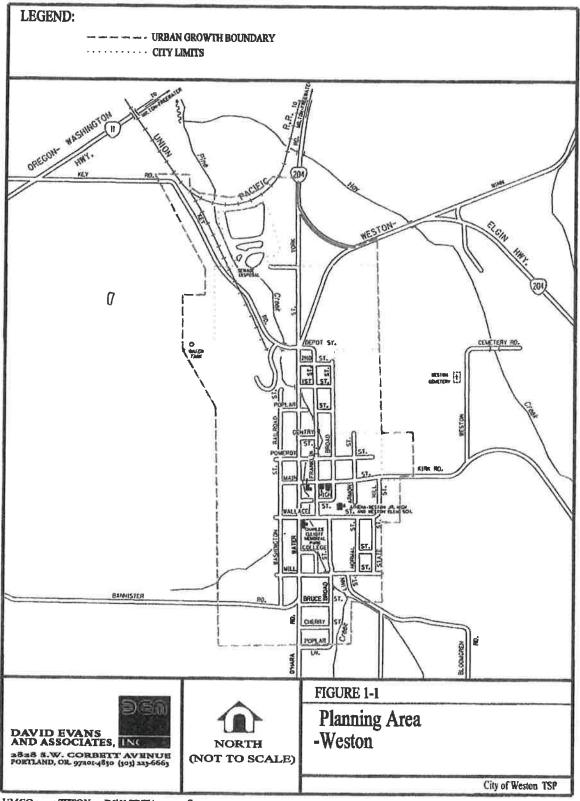
The second part of the community involvement effort consisted of community meetings within Umatilla County. The first public meeting was held in June 1998. The Weston general public was invited to learn about the TSP planning process and provide input on transportation issues and concerns. A second public meeting was held in July 1998. The third and final public meeting was held in September 1998. The public was notified of the public meetings through public announcements in the local newspapers and on the local radio station.

#### Goals and Objectives

Based on input from the community, the county, and the management team/TAC, a set of goals and objectives were defined for the TSP. These goals and objectives were used to make decisions about various potential improvement projects. They are described in Chapter 2.

#### Review and Inventory of Existing Plans, Policies, and Public Facilities

To begin the planning process, applicable Weston and Umatilla County transportation and land use plans and policies were reviewed and an inventory of public facilities was conducted. The purpose of these efforts was to understand the history of transportation planning in the Weston area, including the street system improvements planned and implemented in the past, and how the City is currently managing its ongoing development. Existing plans and policies are described in Appendix A of this report.



UMCOoooI/WTONI-I,DGN/TNT/07-07-98

The inventory of existing facilities catalogs the current transportation system. The results of the inventory are described in Chapter 3, while Chapter 4 describes how the system operates. Appendix B summarizes the inventory of the existing arterial and collector street system.

#### **Future Transportation System Demands**

The Transportation Planning Rule requires the TSP to address a 20-year forecasting period. Future traffic volumes for the existing and committed transportation systems were projected using ODOT's Level 1 – Trending Analysis methodology. The overall travel demand forecasting process is described in Chapter 5.

#### **Transportation System Potential Improvements**

Once the travel forecasts were developed, it was possible to evaluate a series of potential transportation system improvements. The evaluation of potential transportation improvements was based on a qualitative review of safety, environmental, socioeconomic, and land use impacts, as well as estimated cost. These improvements were developed with the help of the local working group, and they attempt to address the concerns specified in the goals and objectives (Chapter 2). After evaluating the results of the potential improvements analysis, a series of transportation system improvements were selected. These recommended improvements are described in Chapter 6.

#### Transportation System Plan

The TSP addresses each mode of transportation and provides an overall implementation program. The street system plan was developed from the forecasting and potential improvement evaluation described above. The bicycle and pedestrian plans were developed based on current usage, land use patterns, and the requirements set forth by the TPR. The public transportation, air, water, rail, and pipeline plans were developed based on discussions with the owners and operators of those facilities. Chapter 7 details the plan elements for each mode.

#### **Funding Options**

The city of Weston will need to work with Umatilla County and ODOT to finance new transportation projects over the 20-year planning period. An overview of funding and financing options that might be available to the community is described in Chapter 8.

#### **Recommended Policies and Ordinances**

Suggested Comprehensive Plan policies and implementing zoning and subdivision ordinances are included in Chapter 9. These policies and ordinances are intended to support the TSP and satisfy the requirements of the TPR.

#### RELATED DOCUMENTS

The city of Weston TSP addresses the regional and rural transportation needs in the City. There are several other documents that address specific transportation elements or areas in Umatilla County that may directly or indirectly impact transportation elements in and around Weston.

#### In Process or Completed Plans

The following references were reviewed for relevance to the city of Weston TSP:

#### Weston Comprehensive Plan

The Weston Comprehensive Plan was adopted in 1978 and amended in 1979. According to the plan, the small town nature and historic character of Weston is valued by citizens as one of the City's primary assets. The City would like to retain the ambiance of Weston while experiencing moderate population and employment growth.

Some of the most salient concerns of the citizenry involve the transportation system. Results of a survey taken in 1978 showed that much of the community was disturbed by the poor condition of streets and/or curbs and gutters in much of the town. The City recognizes the maintenance of county and state roads and the railroad as essential to the economic health of the community. Easy access to OR 11 and OR 204, north of the town, is also critical. Citizens see a need for public transportation linking Weston with other communities, especially for seniors.

The Comprehensive Plan lists two goals that impact the transportation system directly: economic development and transportation. The stated goals, and objectives and policies that serve to meet the goals are outlined in Appendix A of this TSP.

#### City of Weston Growth Report

The Weston Growth Report was last amended in 1979, and much of the data may be outdated. However, the population has only grown by 40 people (650 to 690) between 1979 and 1996, so much of the City may not have changed.

The buildable lands inventoried in 1979, were broken into three categories: residential areas, commercial areas, and industrial areas. The buildable commercial lands totaled 12.3 acres, all within the downtown area. These lands were comprised of 2.3 acres of vacant land and 10 acres of redevelopable residential land. Buildable residential lands were comprised of individual lots scattered throughout the City and regions located on the edges of UGB. The growth report estimated that 171.9 acres of buildable residential land and 108 vacant building sites could provide for 505 new dwellings. It estimated that the City could accommodate a population of 1,900 people.

#### Zoning Ordinance

The Weston Zoning Ordinance was adopted in 1979. The purported intent and purpose of Zoning Ordinance is as follows:

To promote a good quality of development within the community and provide an opportunity for citizens and city officials to review and comment on development plans. By governing the location of land uses and setting standards to guide the sitting of structures and provision of improvements on lots, the Zoning Ordinance is an attempt to insure that new development will enhance the community, fit into the landscape and neighborhood, and provide good living, working, and business environments.

The Ordinance contains four sections: Introduction, Use Zones, Supplementary Development Standards, and Administration. The only sections that apply directly to the transportation plan, are the sections on off-street parking and miscellaneous standards which requires access to all newly partitioned lots.

#### Umatilla County

The Umatilla County Comprehensive Plan was written in 1983 to meet the statewide requirements for planning. It was last amended in 1987. The plan is broken into three sections: the Introduction; Plan Elements – Findings, Recommended Policies; and the Plan Map. The Plan Elements section is broken into sections dealing with the fourteen goals. This includes a Transportation Element with findings and recommended policies.

#### Umatilla County Development Code

The Umatilla County Development Ordinance was adopted in 1983, and last amended in November of 1991. In 1997 this ordinance was recodified and retitled as Chapter 1528 Development Code. The portions of the code most relevant to the Transportation System Plan include sections on off-street parking requirements, driveways, and road standards. Amendments to the development code include road standards for county roads.

#### OR 11 Corridor Plan

The OR 11 Corridor Plan is currently being prepared for the Oregon – Washington Highway (OR 11) which is the major north-south route through eastern Umatilla County. Corridor planning is a new approach to transportation planning in which ODOT and the communities bordering major transportation corridors work together to create plans for managing and improving transportation modes along entire corridors. The OR 11 Corridor Plan includes objectives that define the policy direction for all modes in the Corridor, as well as for several functional issues such as connectivity, congestion and environmental and energy impacts. The plan includes a list of projects prioritized by funding. The Corridor Plan projects are derived from the county and local TSPs, the Milton-Freewater to Stateline Land Use and Transportation Plan, the STIP, the Umatilla County Needs Assessment, as well as input from the project management team, technical advisory committees and the public. Projects and strategies focus on managing the highway to minimize congestion and improve connectivity while ensuring safety.

The Milton-Freewater Stateline Highway 11 Corridor Land Use and Transportation Plan was a cooperative effort of Umatilla County, the city of Milton-Freewater, and the Oregon Department of Transportation. It was developed by planning consultants at David Evans and Associates, Inc., with input from the local residents, Walla Walla County, and the Washington Department of Transportation. The plan was adopted in 1997, and evaluated existing and projected conditions within the northern portion of the US 11 corridor regarding basic layout and connectivity, conditions of transportation facilities, land use, and population and employment. It analyzed existing deficiencies and proposed strategies for addressing them. The primary deficiencies in the corridor were physical design of facilities, insufficient access control, and inadequate or nonexistent facilities for pedestrians and bicyclists. Recommended actions to improve these conditions included policy and ordinance amendments and transportation system improvements.

#### Corridor Strategies

Corridor strategies have been prepared for both US 395 and OR 11.

The US 395 corridor is covered in two studies: the US Highway 395 North (Umatilla-Weston) Draft Corridor Strategy and the US Highway 395 South (Pendleton-California Border) Corridor Strategy. The corridor strategies were developed to identify projects for the Oregon STIP. Generally, the corridor strategies translate the policies of the Oregon Transportation Plan (OTP) into specific actions; describe the functions of each transportation mode, consider trade-offs, and show how they will be managed; identify and prioritize improvements for all modes of travel; indicate where improvements should be made; resolve any conflicts with local land use ordinances and plans; and establish guidelines for how transportation plans will be implemented.

#### Airport Master Plans

The 1986 Hermiston Municipal Airport Master Plan Update provides a comprehensive analysis of the Hermiston Airport including an inventory of facilities, a discussion of use for a 20-year planning period (ending in 2006), and recommendations for facility improvements. The introduction of the plan also provides a good overview of all the major transportation facilities serving Hermiston and Northeast Oregon.

The primary objective of the Master Plan Update for Eastern Oregon Regional Airport at Pendleton was to re-evaluate the recommendations of previous airport planning studies, to determine the long-range requirements for airport development, to identify and assess development alternatives, and to produce an airport development/improvement plan that will yield a safe, efficient, economical, and environmentally acceptable public facility with capacity for future air transport needs of the Eastern Oregon area. When approved by the various local, regional, state, and federal agencies, the Airport Master Plan represents the long-term intentions of all agencies regarding the location and extent of airport improvements. This permits long-range programming and budgeting, reduces lengthy review periods for each project, and provides for orderly and timely development.

#### **Other State Plans**

In addition to the ODOT corridor strategy, coordination with the following state plans is required:

Oregon Transportation Plan (1992)

- Oregon Highway Plan (1999)
- Oregon Bicycle and Pedestrian Plan (1995)
- Oregon Public Transportation Plan (1996)
- Oregon Rail Freight Plan (1994)
- Oregon Rail Passenger Policy and Plan (1992)
- Oregon Traffic Safety Action Plan (1995)
- Oregon Aviation System Plan (in development).

#### **CHAPTER 2: GOALS AND OBJECTIVES**

The purpose of the TSP is to provide a guide for Weston to meet its transportation goals and objectives. The following goals and objectives were developed from information contained in the city's comprehensive plan and reflect public concerns as expressed during public meetings. An overall goal was drawn from the plan, along with more specific goals and objectives. Throughout the planning process, each element of the plan was evaluated against these parameters.

#### OVERALL TRANSPORTATION GOAL

To provide and encourage a safe, convenient, and economic transportation system.

#### Goal 1

Preserve the function, capacity, level of service, and safety of the local streets, county roads, and nearby highways.

#### **Objectives**

- A. Develop access management standards.
- B. Develop alternative, parallel routes where practical.
- C. Promote alternative modes of transportation.
- D. Promote transportation demand management programs.
- E. Promote transportation system management.
- F. Develop procedures to minimize impacts to and protect transportation facilities, corridors, or sites during the development review process.

#### Goal 2

Ensure that the road system within the City is adequate to meet public needs, including those of the transportation disadvantaged.

#### **Objectives**

- A. Meet identified maintenance level of service standards on the county and state highway systems.
- B. Pave city streets and provide curbs and sidewalks as resources are available.
- C. Develop and adhere to a five-year road program for maintenance and improvement of the existing city road system.
- D. Review and revise, if necessary, street cross section standards for local, collector, and arterial streets to enhance safety and mobility.

- E. Develop access management strategies where needed.
- F. Evaluate the need for traffic control devices.
- G. Evaluate the safety of the street system and develop plans to mitigate any safety hazards.
- H. Encourage the provision of transportation alternatives for elderly and handicapped citizens.

#### Goal 3

Improve coordination among Weston and nearby cities, the Oregon Department of Transportation (ODOT), the US Forest Service (USFS), the Federal Highway Administration (FHWA), and the county.

#### **Objectives**

- A. Work with Umatilla County to coordinate roadway maintenance and improvements and to develop joint policies concerning local roads and streets within the Urban Growth Boundary.
- B. Cooperate with ODOT in the implementation of the Statewide Transportation Improvement Program (STIP).
- C. Work with the county in establishing right-of-way needed for new roads identified in the transportation system plans.
- D. Take advantage of federal and state highway funding programs.
- E. Encourage the county and ODOT to improve the existing road systems to and within the city.
- F. Consider pooling resources with other cities and the county to provide services that benefit areas both in and outside the city.

#### Goal 4

Increase the use of alternative modes of transportation (walking, bicycling, and public transportation) through improved access, safety, and service.

#### **Objectives**

- A. Cooperate with other cities and the county to create inter-city transit service.
- B. Encourage the compact, commercial development in the downtown area to provide a pleasant pedestrian environment.
- C: Provide sidewalks or shoulders and safe crossings on collectors and arterials.
- D. Explore opportunities for bicycle facilities and coordinate with the county bicycle planning efforts.
- E. Seek Transportation and Growth Management (TGM) and other funding for projects evaluating and improving the environment for alternative modes of transportation.

F. Utilize local improvement districts (LIDs) when possible to provide sidewalks and curbs for local neighborhoods.

#### Goal 5

Encourage the continued and improved rail transportation of goods.

#### **Objectives**

- A. Encourage the development of industry in northern Weston near the rail line.
- B. Maintain the operational status of the Blue Mountain rail line.

#### **CHAPTER 3: TRANSPORTATION SYSTEM INVENTORY**

As part of the planning process, David Evans and Associates, Inc., conducted an inventory of the existing transportation system in Weston. This inventory covered the street system as well as the pedestrian, bikeway, public transportation, rail, air, water, and pipeline systems.

#### STREET SYSTEM

The most common understanding of transportation is of roadways carrying cars and trucks. Most transportation dollars are devoted to building, maintaining, or planning roads to carry automobiles and trucks. The mobility provided by the personal automobile has resulted in a great reliance on this form of transportation. Likewise, the ability of trucks to carry freight to nearly any destination has greatly increased their use.

Encouraging the use of cars and trucks must be balanced against costs, livability factors, the ability to accommodate other modes of transportation, and negative impacts on adjacent land uses; however, the basis of transportation in nearly all American cities is the roadway system. This trend is clearly seen in the existing Weston transportation system, which consists almost entirely of roadway facilities for cars and trucks. Because of the rural nature of the area, the street system will most likely continue to be the basis of the transportation system for at least the 20-year planning period; therefore, the emphasis of this plan is on improving the existing street system for all users.

The existing street system inventory was conducted for all highways, arterial roadways, and collector roadways within Weston, as well as those in Umatilla County that are included in the TSP planning area. Inventory elements include:

- Street classification and jurisdiction
- Street width
- Number of travel lanes
- Presence of on-street parking, sidewalks, or bikeways
- Speed limits
- General pavement conditions

#### **City Street Classification**

The current comprehensive plan for the city of Weston does not provide functional classifications for the streets within the city. Typically, streets are classified as arterials, collectors or local streets. Based on conditions observed during the field reconnaissance (traffic volumes, street widths, etc.), David Evans and Associates, Inc., classified all streets within the city. The classification system includes city, county, and state roadways (see Figure 3-1).

#### Arterials

Arterials form the primary roadway network within and through a region. They provide a continuous road system that distributes traffic between cities, neighborhoods and districts. Generally, arterials are high capacity roadways that carry high traffic volumes entering or leaving the city.

In the Weston UGB, there is one street which functions as an arterial: OR 204 (Weston-Elgin Highway).

#### **Collectors**

Collectors serve traffic within the commercial, industrial and residential neighborhood areas. They connect local neighborhoods or districts to the arterial network. Collectors help form part of the grid system; however, they are not intended to function as alternate routes to the arterial system.

Five streets in Weston were identified as functioning as collectors: Water Street, Winn Road, Key Road, Main Street, and Banister Road.

#### Local Streets

Local streets provide access to all parcels of land and serve travel over relatively short distances. They are designed to carry the very low traffic volumes associated with the local uses that abut them. Through traffic movements are discouraged on local streets.

The local streets in Weston are comprised of all streets not classified as either arterials or collectors. Local streets in Weston also form part of the grid system.

#### Street Layout

Almost all of the Weston streets are positioned in a grid pattern. Block sizes vary but are typically 320 feet by 240 feet.

#### State Highways

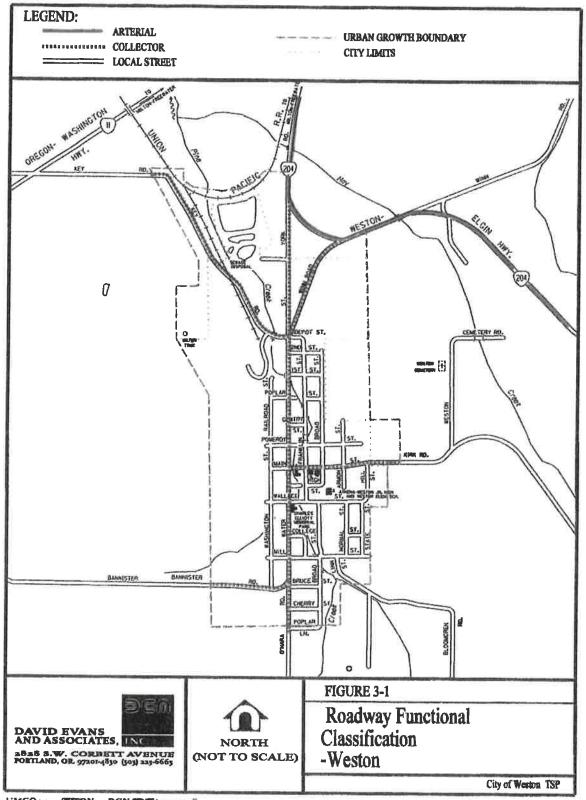
Discussion of the Weston street system must include the state highways that traverse the planning area. Although Weston has no direct control over the state highways, adjacent development and local traffic patterns are heavily influenced by the highways. Only one state highway traverses the Weston planning area: OR 240 (Weston-Elgin Highway), which lies along the north edge of the Weston UGB. Traffic patterns in Weston are also influenced by the proximity of OR 11 (Oregon/Washington Highway), which lies less than a mile west of the city.

The 1999 Oregon Highway Plan (OHP) classifies the state highway system into five categories: Interstate, Statewide, Regional, District, and Local Interest. ODOT has established primary and secondary functions for each type of highway and objectives for managing the operations for each one.

OR 204 is a Regional Highway. According to the OHP, "Regional Highways typically provide connections and links to regional centers, Statewide or Interstate Highways, or economic or activity centers of regional significance." The management objective of Regional Highways is to provide for safe and efficient high-speed continuous-flow operation in rural areas and moderate to high-speed operations in urban and urbanizing areas.

#### **OR 204**

OR 204 (Weston-Elgin Highway) is a Regional Highway, which connects Weston with the city of Elgin to the southeast. Beginning at the OR 11 junction, OR 204 extends through the Umatilla National Forest and crosses



into Union County. It is primarily a two-lane roadway with a speed limit of 55 mph. The route through the Umatilla National Forest consists of numerous curves, moderate grade changes, and a nearly 5.5-mile southbound climbing lane that extends though the steeper part of the forest. OR 204 does not run directly through the city of Weston; however, it forms part of the northern UGB.

#### GENERAL PAVEMENT CONDITIONS

#### **City Streets**

The ODOT Pavements Unit published a 1994 report entitled, Pavement Rating Workshop, Non-National Highway System. This report thoroughly defines the characteristics that pavements must display to be categorized as Very Good and so on. The report also provides color photographs of roadways that display these characteristics, which aids in field investigation and rating of pavement condition. These established guidelines were employed by David Evans and Associates, Inc., in conducting a subjective evaluation of pavement condition for all collectors within the city of Weston.

An inventory of the city's collectors, conducted by David Evans and Associates, Inc., in November 1997, indicated that pavement on Water Street is in fair condition; Winn Road is in fair condition; Key Road is in fair condition; Main Street is in fair to poor condition; and Banister Road is in fair condition.

#### State Highways

The Oregon Department of Transportation's (ODOT's) Pavement Unit surveys the State Highway System on an annual basis. Observed severity levels of certain distress types are used to determine a pavement condition rating score. These scores are used to stratify pavement segments into five condition categories: (1) Very Good, (2) Good, (3) Fair, (4) Poor, and (5) Very Poor. The *Umatilla County Transportation System Plan* briefly defines these condition categories.

According to the 1997 ODOT Pavement Condition Report, the section of OR 204 that runs along the Weston UGB is in fair condition.

#### **BRIDGES**

The Oregon Department of Transportation maintains an up-to-date inventory and appraisal of Oregon bridges. Part of this inventory involves the evaluation of three mutually exclusive elements of bridges. One element identifies which bridges are structurally deficient. This is determined based on the condition rating for the deck, superstructure, substructure, or culvert and retaining walls. It may also be based on the appraisal rating of the structural condition or waterway adequacy. Another element identifies which bridges are functionally obsolete. This element is determined based on the appraisal rating for the deck geometry, under clearances, approach roadway alignment, structural condition, or waterway adequacy. The third element summarizes the sufficiency ratings for all bridges. The sufficiency rating is a complex formula which takes into account four separate factors to obtain a numeric value rating the ability of a bridge to service demand. The scale ranges from zero to 100 with higher ratings indicating optimal conditions and lower ratings indicating insufficiency. Bridges with ratings under 55 may be nearing a structurally deficient condition.

There are a total of six bridges within the city of Weston, all crossing Pine Creek. Five of these bridges are city-owned and maintained, with the remaining bridge under county jurisdiction. The ODOT bridge inventory information indicates that none of the six bridges are currently deficient. No bridge improvements are scheduled within Weston under ODOT's 2000-2003 STIP Update.

#### PEDESTRIAN SYSTEM

The most basic transportation option is walking. Walking is the most popular form of exercise in the United States and can be performed by people of all ages and all income levels. However, it is not often considered as a means of travel. Because pedestrian facilities are generally an afterthought, they are not planned as an essential component of the transportation system.

The relatively small size of Weston indicates that walking could be employed regularly, weather permitting, to reach a variety of destinations. Encouraging pedestrian activities may not only decrease the use of the personal automobile, but may also provide benefits for retail businesses. Where people find it safe, convenient, and pleasant to walk, they may linger and take notice of shops overlooked before. They may also feel inclined to return to renew the pleasant experience time and again.

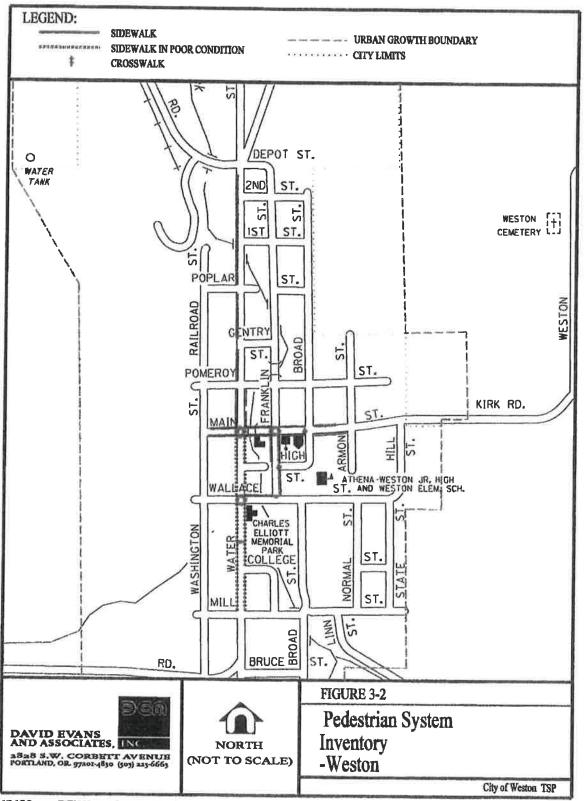
As is typical of most towns the size of Weston, the sidewalk system is limited to the older core of the city. Sidewalks exist along the west side of Water Street between Main Street and Depot Street. Sidewalks that are in poor condition also exist on both sides of Water Street between Main Street and College Street, and a broken sidewalk continues on the west side of Water Street to Mill Street. Main Street also has sidewalks on both sides of the street between Washington Street and Arman Street, as well as painted crosswalks at each of the intersections. Sidewalks are found on the west side of Franklin Street between Main Street and High Street, and on the east side of Franklin Street between Pomeroy Street and Wallace Street and on the north side of Wallace Street between Water Street and Franklin Street, in addition sidewalks exist on the west side of Washington Street between Wallace Street and Main Street. Sidewalks also partially extend on the west side of Washington Street between Wallace Street and Mill Street. The last existing section of sidewalk is located on the west side of Broad Street and partially extends from Wallace Street towards Mill Street. The existing pedestrian system is shown in Figure 3-2. Sidewalks and other pedestrian facilities are notably lacking outside of this area. Curb cuts for wheelchair access are largely lacking even where sidewalks exist.

#### **BIKEWAY SYSTEM**

Like pedestrians, bicyclists are often overlooked when considering transportation facilities. Bicycles are not often considered as a serious mode of transportation. However, cycling is a very efficient mode of travel. Bicycles take up little space on the road or parked, do not contribute to air or noise pollution, and offer relatively higher speeds than walking. Because of the small size of Weston, a cyclist can travel to any destination in town within a matter of minutes.

Bicycling should be encouraged for short trips in order to reduce some of the negative aspects of urban growth and automobile use. Noise, air pollution, and traffic congestion could be mitigated if more short trips were taken by bicycle or on foot. Typically, a short trip that would be taken by bicycle is around two miles; on foot, the distance commonly walked is around one half mile.

Weston currently has no sanctioned bikeways; bicyclists must share the roadways with motorized vehicles. On low volume roadways, such as many of the local streets, bicyclists and automobiles can both safely and easily



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use the roadway. On higher volume roadways, particularly the collector streets, safety for the bicyclists is an important issue.

An impediment to bicycle use is the lack of parking and storage facilities for bikes throughout the city of Weston.

#### PUBLIC TRANSPORTATION

The only intercity bus service in Umatilla County is provided by Greyhound bus lines which provides service along Highway I-84, US 395, and OR 11 within Umatilla County. Greyhound has terminals located in Hermiston and Pendleton that connect these cities to each other and major population centers outside of the county. The Hermiston terminal has two departures heading southeast (with stops in Pendleton, La Grande, Boise, and Salt Lake City); three buses running west to Portland; and two buses heading north on US 395 to Pasco and Spokane daily. The Pendleton terminal has three departures southeast (with stops in La Grande, Boise and Salt Lake City); three departures west to Portland; and two departures north to Seattle via Walla Walla, Pasco, and Spokane daily. The line to Seattle could serve Milton-Freewater as it runs through the City along OR 11.

Weston has dial-a-ride type transit service available for the transportation disadvantaged. Dial-a-ride service is defined as door-to-door service initiated by a user's request for transportation service from their origins to specific locations on an immediate or advance reservation basis. These services are provided through the Umatilla County Special Transportation Fund (STF) in Weston.

Weston has no local fixed-route transit service at this time. The small size and low traffic volumes on city streets indicate that mass transit is not necessary or economically feasible at this time. The TPR exempts cities with a population of less than 25,000 from developing a transit system plan or a transit feasibility study as part of their TSPs.

#### RAIL SERVICE

Weston has no passenger rail service. Until recently, Amtrak service was available in Hermiston and Pendleton along the rail line that follows the I-84 corridor from Portland to Boise, Idaho and points east. Amtrak is currently experiencing a funding crisis. As a result, passenger service between Portland and Denver, including service to cities within Umatilla County, was discontinued in May 1997. This line serves only freight traffic now.

#### AIR SERVICE

The city of Weston is served by Walla Walla Airport in Walla Walla, WA, which is approximately 20 miles north of Weston, Eastern Oregon Regional Airport in Pendleton, which is approximately 25 miles southwest of Weston and by Hermiston Municipal Airport, which is approximately 50 miles west of Weston.

Walla Walla Airport is owned and operated by the Port of Walla Walla. Located three miles from downtown Walla Walla, it is a towe- controlled airport with 25,000 annual enplanements. Passenger service includes ten scheduled flights per day to Seattle (five daily flights provided by Horizon Airlines and five

daily flights provided by United Express). The airport is at an elevation of 1,205 feet above Mean Sea Level and has three runways varying in length from 6,450 feet to nearly 7,200 feet.

Eastern Oregon Regional Airport in Pendleton is a tower-controlled airport with 40,600 annual operations. Passenger service includes 16 scheduled flights per day by Horizon Airlines, with flights to Portland and Seattle. The airfield is also home to 60 locally owned fixed-wing aircraft, four rotor, and eight CH-47 Chinook helicopters with the Oregon Army Air Guard.

The city of Hermiston owns and operates a municipal airport. No commercial flights are available at the present time, but there is charter service available. The Hermiston Municipal Airport is located 1.5 miles from downtown Hermiston and had 12,380 annual operations in 1995. The airport is at an elevation of 641 feet above Mean Sea Level and has one runway which is 4,500 feet long and positioned in a northeast-southwest direction. The airport is often used by businesses such as Simplot, Gilroy Foods, Les Schwab Tires, UPS, and other large organizations such as PGE, Bonneville Power, and the Army Corps of Engineers. There is an agricultural spray operation based at the airport, and local residents also use the airport for recreational purposes.

#### PIPELINE SERVICE

Although not often considered transportation facilities, pipelines carry liquids and gases very efficiently. The use of pipelines can greatly reduce the number of trucks and rail cars carrying fluids such as natural gas, oil, and gasoline. The Pacific Northwest Gas pipeline runs north-south between Weston and Athena. Cascade Natural Gas provides natural gas to consumers in Weston from this pipeline.

#### WATER TRANSPORTATION

Weston has no water transportation services. The nearest commercial port is the Port of Umatilla located in the northwest corner of the county along the Columbia River.

#### CHAPTER 4: CURRENT TRANSPORTATION CONDITIONS

As part of the planning process, the current operating conditions for the transportation system were evaluated. This evaluation focused primarily on street system operating conditions since the automobile is by far the dominant mode of transportation in Weston. Census data were examined to determine travel mode distributions. Traffic counts were used to determine how well traffic is currently flowing.

#### TRAFFIC VOLUMES

Historic traffic volume counts, documented in the *ODOT Traffic Volume Tables*, exist for OR 204 near Weston. ODOT has a permanent count station near the intersection on OR 204 and Water Street.

#### **Average Daily Traffic**

The Average Daily Traffic (ADT) on OR 204 near Weston in 1996 was recorded at approximately 1,200 vehicles per day (vpd). East of Weston, 1996 ADTs were approximately 900 vpd.

ADTs are average volumes for the year. Summer is the season when volumes are highest. ODOT data on OR 204 east of OR 11 indicate that during the summer season, volumes are about 40 to 50 percent higher than average volumes.

No other daily or hourly traffic data were available for the city streets in Weston, nor were any counts taken. Because no state highways go through the city, traffic volumes on city streets were expected to be very low, and capacity deficiencies on city streets do not appear to be an issue in Weston, although discussions with city staff indicated that there are 20-30 trucks per day that drive through the north part of Weston from Smith Foods. These trucks use Key Road on their way to OR 204.

#### **Street Capacity**

Transportation engineers have established various standards for measuring traffic capacity of roadways or intersections. Each standard is associated with a particular level of service (LOS). The LOS concept requires consideration of factors that include travel speed, delay, frequency of interruptions in traffic flow, relative freedom for traffic maneuvers, driving comfort and convenience, and operating cost. In the 1991 OHP, levels of service were defined by a letter grade from A-F, with each grade representing a range of volume to capacity (v/c) ratios. A volume to capacity ratio (v/c) is the peak hour traffic volume on a highway divided by the maximum volume that the highway can handle. If traffic volume entering a highway section exceeds the section's capacity, then disruptions in traffic flow will occur, reducing the level of service.LOS A represents relatively free-flowing traffic and LOS F represents conditions where the street system is totally saturated with traffic and movement is very difficult. The 1999 OHP maintains a similar concept for measuring highway performance, but represents LOS by specific v/c ratios to improve clarity and ease of implementation. Table 4-1 presents the level of service criteria and associated range of v/c ratio for arterial and collector roadways.

# TABLE 4-1 LEVEL OF SERVICE CRITERIA FOR ARTERIAL AND COLLECTOR STREETS

Service Level <sup>(1)</sup> (v/c Ratio) <sup>(2)</sup>	Typical Traffic Flow Conditions
A (0.00-0.48)	Relatively free flow of traffic with some stops at signalized or stop sign controlled intersections. Average speeds would be at least 30 miles per hour.
B (0.49-0.59)	Stable traffic flow with slight delays at signalized or stop sign controlled intersections. Average speed would vary between 25 and 30 miles per hour.
C (0.60-0.69) C-D (0.70-0.73)	Stable traffic flow with delays at signalized or stop sign controlled intersections. Delays are greater than at level B but still acceptable to the motorist. The average speeds would vary between 20 and 25 miles per hour.
D (0.74-0.83) D-E (0.84-0.87)	Traffic flow would approach unstable operating conditions. Delays at signalized or stop sign controlled intersections would be tolerable and could include waiting through several signal cycles for some motorists. The average speed would vary between 15 and 20 miles per hour.
E (0.84-0.97) E-F (0.98-0.99)	Traffic flow would be unstable with congestion and intolerable delays to motorists. The average speed would be approximately 10 to 15 miles per hour.
F (≥1.00)	Traffic flow would be forced and jammed with stop and go operating conditions and intolerable delays. The average speed would be less than 10 miles per hour.

Source: (1)Transportation Research Board, 1985 Highway Capacity Manual, Special Report 209. National Research Council. (2) ODOT, SIGCAP Users Manual. ODOT, 1994.

The 1999 Oregon Highway Plan (OHP) establishes mobility standards for the state highway system<sup>1</sup>. Regional Highways, such as OR 204, should operate at a v/c ratio of 0.80 where the speed limit is less than 45 mph.

The traffic operation was determined at a representative intersection (Water Street) along OR 204 using the 1985 Highway Capacity Software for unsignalized intersections. This software is based on the 1985 Highway Capacity Manual, Special Report 209, published by the Transportation Research Board. Since all intersecting streets and driveways are controlled by stop signs in the city, the analysis was performed for an unsignalized intersection. The peak hour traffic on the highway was assumed to be 10 percent of the 24-hour ADT volume and the directional split was assumed to be 60/40. Because side street traffic volumes were unavailable, an assumed volume of 30 vph was used and unsignalized intersection level-of-service calculations were made for the intersection. The peak hour operations at the intersection are shown in Table 4-2.

TABLE 4-2 SUMMARY OF OPERATIONS AT OR 204 AND WATER STREET

Location	Movement	1996 LOS (v/c)
OR 204 and Water St.	Westbound; Left	A (<0.48)
	Northbound; Left and Right	A (<0.48)

Note: The level of service is shown for all evaluated movements of the unsignalized intersection.

<sup>11999</sup> Oregon Highway Plan, Table 6, MAXIMUM VOLUME TO CAPACITY RATIOS OUTSIDE METRO.

In general, the intersection currently operates very well. Traffic on the highway flows smoothly and the left turn movement to Water Street operates at LOS A. The northbound left and right turns from Water Street to OR 204 also operate at LOS A. These left turn movement levels of service correlate to maximum v/c ratios of less than 0.48.

# TRANSPORTATION DEMAND MANAGEMENT MEASURES

In addition to inventorying the transportation facilities in Weston, an inventory was performed of any Transportation Demand Management (TDM) strategies that may currently be in place. TDM strategies are designed to relieve congestion on the street system by spreading peak hour traffic over a longer period of time, encouraging the use of alternative modes of transportation (i.e. sidewalks, bike lanes, public transit), and encouraging the single car driver to ride with others through local carpool programs. Other than the sidewalk and bicycle facilities that exist in Weston, no formal TDM strategies exist in the City.

This following sections briefly describe two elements that may impact future transportation demand management decisions in the City: 1) distribution of departure time to work, and 2) distribution of travel modes.

#### **Alternative Work Schedules**

One way to maximize the use of the existing transportation system is to spread peak traffic demand over several hours instead of a single hour. Statistics from the 1990 Census show the spread of departure to work times over a 24-hour period (see Table 4-3). Approximately 26 percent of the total employees (those not working at home) depart for work between 6:00 and 7:00 a.m. Another 26 percent depart in either the hour before or the hour after the peak. Therefore, nearly half of all morning commute trips occur between 5:00 a.m. and 8:00 a.m.

TABLE 4-3
DEPARTURE TO WORK DISTRIBUTION

	1990	Census	
Departure Time	Trips	Percent	
12:00 a.m. to 4:59 a.m.	9	3.9%	
5:00 a.m. to 5:59 a.m.	20	8.8%	
6:00 a.m. to 6:59 a.m.	60	26.3%	
7:00 a.m. to 7:59 a.m.	40	17.5%	
8:00 a.m. to 8:59 a.m.	28	12.3%	
9:00 a.m. to 9:59 a.m.	2	0.9%	
10:00 a.m. to 10:59 a.m.	2	0.9%	
11:00 a.m. to 11:59 a.m.	3	1.3%	
12:00 p.m. to 3:59 p.m.	33	14.5%	
4:00 p.m. to 11:59 p.m.	31	13.6%	
Total	228	100.0%	

Source: US Bureau of Census...

Assuming an average nine-hour workday, the corresponding afternoon peak can be determined for work trips. Using this methodology, the peak work travel hour would occur between 3:00 and 4:00 p.m., which corresponds with the peak hour of activity measured for traffic volumes.

### **Travel Mode Distribution**

Although the automobile is the primary mode of travel for most residents in the Weston area, some other modes are used as well. Modal split data is not available for all types of trips. The 1990 Census statistics that were reported for journey to work trips are shown in Table 4-4 and reflect the predominant use of the automobile in this area.

In 1990, 89.3 percent of all trips to work were in a private vehicle (auto, van, or truck). Trips in single-occupancy vehicles made-up 74.2 percent of these trips, and carpooling accounted for 15.1 percent.

Bicycle usage was fairly average (approximately 0.9 percent) in 1990. Since the census data do not include trips to school or other non-work activities, overall bicycle usage may be greater. None of Weston roadways include dedicated bicycle lanes. Dedicated bicycle lanes can encourage bicycle commuting, as can other facilities such as bicycle parking, showers, and locker facilities.

Pedestrian activity was also relatively high (6.8 percent of trips to work) in 1990. Statewide, 4.2 percent of trips to work were made on foot. Again, the census data only report trips to work; trips to school or other non-work activities are not included.

TABLE 4-4 JOURNEY TO WORK TRIPS

	1990 Census		
Trip Type	Trips	Percent	
Private Vehicle	207	88.1%	
Drove Alone	189	91.3%	
Carpooled	18	8.7%	
Public Transportation	0	0%	
Motorcycle	1	0.4%	
Bicycle	2	0.9%	
Walk	16	6.8%	
Other	2	0.9%	
Work at Home	7	3.0%	
Total	235	100.0%	

Source: US Bureau of Census.

## **ACCIDENT ANALYSIS**

ODOT collects detailed accident information on an annual basis along all state highways. However, no state highways run through the Weston city limits. Therefore, no state-generated accident information exists for the city of Weston.

# **CHAPTER 5: TRAVEL FORECASTS**

The traffic volume forecasts for Umatilla County and its municipalities are based on historic growth of the state highway system taking into account historic and projected population growth. Forecasts were only prepared for the state highway system in the county, since the volumes on these roadways are much higher than on any of the county roads.

#### LAND USE

Land use and population growth plays an important part in projecting future traffic volumes. Population forecasts were developed to help determine future transportation needs since the amount of growth and where it occurs will affect traffic and transportation facilities in the study area. The population analysis presented here is not intended to provide a complete economic forecast or housing analysis, and it should not be used for any purpose other than that for which it was designed.

The population projections for Umatilla County are based on historic growth rates, the original population and employment forecasts made by the State of Oregon Office of Economic Analysis (OEA), and a recent study <sup>2</sup> identifying new economically-driven factors that will result in a higher population total than what was initially projected in the DEA forecast.

Both historic and projected population estimates for Umatilla County, Weston, and seven other cities in the county are summarized in Table 5-1. Factors that will affect the future growth rates of the county and incorporated cities include employment opportunities, available land area for development, and community efforts to manage growth.

TABLE 5-1 UMATILLA COUNTY POPULATION TRENDS

	1970'	1980¹	1990¹	1996 <sup>1</sup> Estimate	2017 <sup>2</sup> Projected
Umatilla County	44,923	58,855	59,249	65,500	80,073
Incorporated Cities	-19		diminition were not the end of the contract of	man or reasons applyed the new - con - con -	1164,333.2.1
Weston	660	719	606	680	730
Adams	219	240	223	260	310
Athena	872	965	997	1,105	1,360
Echo	479	624	499	530	660
Helix	152	155	150	185	230
Pilot Rock	1,612	1,630	1,478	1,570	1,650
Stanfield	891	1,568	1,568	1,755	2,490
Ukiah	NA.	249	250	280	340

## Sources:

- 1) Portland State University Center for Population Research and Census.
- 2) The population forecast shown for the county has been officially adopted, however there is no official breakdown in population for the incorporated cities in the county. The projected population numbers shown for the eight cities are based on the initial OEA forecast, solely for the purpose of producing travel forecasts for these cities.

<sup>&</sup>lt;sup>2</sup> Umatilla County Population Analysis, December 16, 1998, produced by David Evans and Associates, Inc.

Umatilla County recently worked with the OEA to increase the official population projections for the county. Even though higher estimates have been adopted for the county than were used for the forecasting in this document, the new estimates will not impact travel projections for the TSP. This is because travel forecasts are based primarily on historic traffic levels taking into account population and land use. The difference between the original estimates and new official estimates is not great enough to impact travel projections.

A detailed description of existing and future land use projections, including the methodology and data sources used, is contained in the Umatilla County Population Analysis located in Appendix C. This appendix contains both the original estimates of the OEA and the new official estimates for the county.

As mentioned, Umatilla County has adopted new population estimates for the county as a whole. The new estimates have been disaggregated to determine how much growth is likely to occur in each city.

### **Historic Growth**

The population of Umatilla County has grown since the 1970s, with significantly slower growth in the 1980s, reflecting a general slowdown in the state's economy. Helix, Pilot Rock, and Weston actually experienced a net population loss between 1970 and 1990. The number of people residing in Weston nearly doubled between 1970 and 1980. This population growth may have been fueled by some significant housing developments and the location of several food processing plants in Weston during this time.

Estimated at 65,500 in 1997, the population of Umatilla County has grown relatively rapidly since the 1990 Census, with an average annual growth rate of 1.44 percent. Most of the jurisdictions in Umatilla County have grown at a healthy rate, comparable to the annual growth rate of 1.44 percent for the county overall. Since 1990, Weston has grown at a slightly faster rate than the county as a whole, with an average growth rate of 1.9 percent per year.

## **Projected Growth**

The State Office of Economic Analysis prepared long-term population projections by county, but since the county has not yet allocated adopted population numbers to incorporated cities, preliminary population forecasts for the jurisdictions of Adams, Athena, Echo, Helix, Pilot Rock, Stanfield, Ukiah, and Weston were developed in five-year increments based on the initial OEA population forecast. (See Umatilla County Population Discussion — Appendix C.) This was done only for the purpose of producing the future traffic forecast and should not be used for anything other then the intended purpose.

Although the city of Weston experienced a higher growth rate than the county between 1990 and 1996, the projections extrapolated from OEA's county projections show a general slowdown. Weston's population is expected to grow by .5 percent per year over the next 20 years, which will add 50 people to its population projected to be 730 people by 2017.

Overall, Umatilla County is also expected to experience healthy rates of population growth, averaging nearly 1 percent annually over the next 20 years. The western portion of Umatilla County is expected to grow faster than the rest of Umatilla County,. However, like much of rural Oregon, the economy of Umatilla County remains largely seasonal, with nearly one-quarter of all employment agriculture-based. This makes population projections difficult, and are not likely to be as stable as the forecasts imply.

#### TRAFFIC VOLUMES

Traffic volume projections for the year 2018 are based on historic growth trends of highway volumes taking into account current and future land use projections.

#### Historic

Before projecting future traffic growth, it is important to examine past growth trends on the Weston roadway system. Historic data are only available for the state highway system near Weston; however, these roadways carry far more traffic than any other roads in the City. The Oregon Department of Transportation (ODOT) collects traffic count data on the state highways (rural and urban sections) every year at the same locations. These counts have been conducted at one location along OR 204 (Weston-Elgin Highway) near the northern UGB in Weston at ODOT's permanent recorder station.

Historical growth trends on OR 204 near Weston's northern UGB were established using the average annual daily traffic (AADT) volume information presented in the ODOT Traffic Volume Tables for the years 1976 through 1996. The AADT volumes were obtained for each of these years at ODOT's permanent recorder station along the highway near Weston. Using a linear regression analysis of the average AADT volumes between 1976 and 1996, an average annual growth rate was determined. Table 5-2 summarizes the historic average growth rate on each of these sections.

TABLE 5-2 HISTORIC TRAFFIC GROWTH RATES ON STATE HIGHWAYS

Highway Section	Average Annual Growth Rate 1976-1996	Total Growth 1976-1996
OR 204 (Weston-Elgin Highway)		
ODOT permanent recorder station (#30-012) near Weston's northern UGB	1.80%	42.9%

Source: ODOT 1976-1996 Transportation Volume Tables; information compiled by DEA.

Based on annual volumes from ODOT's permanent recorder station near Weston's northern UGB over the 20-year period from 1976 to 1996, the annual growth rate on OR 204 near Weston has averaged approximately 1.8 percent per year.

Traffic growth on the highway exceeded the population growth in Weston itself, which was negative (-0.4 percent per year) from 1970 to 1990. Weston experienced a growth spurt between 1990 and 1996 where population growth averaged 1.9 percent per year (the result of an increase of 74 residents over the six years). Traffic growth on the highway increased at a rate of 3.1 percent per year during that same period. Typically, the rate of traffic growth is twice that of population growth.

#### **Future Traffic Volumes**

Based on the official OEA estimates for the county, the population of Weston is forecast to grow at a rate of 0.5 percent per year over the next 20 years. This represents a slow-down in growth compared with the last few years, and is more consistent with Weston's long-term historic growth rate. It was decided that the most

appropriate growth rate to project future traffic is that rate which was calculated from the historic traffic growth and not those rates that were calculated from the historic and future population forecasts. Using the same linear regression analysis used to calculate the historic growth rate of traffic, forecasts were made for the years 1996 through 2018. Traffic volumes are expected to grow at a rate of 1.8 percent per year (47.9 percent by the year 2018) to 1,775 vpd on the highway.

It is important to note that using the historical growth trends assumes that future traffic patterns will remain consistent with historical patterns, without consideration of future planned developments.

The forecast future traffic volumes and total growth from 1996 to 2018 are shown in Table 5-3.

TABLE 5-3
FORECAST TRAFFIC VOLUMES AND TOTAL GROWTH ON STATE HIGHWAYS

Location	1996 ADT (vehicles/day)	2018 ADT (vehicles/day)	Total Growth 1996-2018
OR 204 (Weston-Elgin Highway)		7.0	
ODOT automatic recorder station (#30-012) near Weston	1,200	1,775	47.9%

Source: ODOT 1976-1996 Transportation Volume Tables; compiled by DEA.

#### HIGHWAY SYSTEM CAPACITY

For the year 2018, unsignalized intersection analyses were performed using the overall growth (47.9 percent) expected on OR 204 at the same intersection in Weston for which the existing conditions were analyzed. The analyses indicated that all the intersection is expected to exceed ODOT level of service standards over the 20-year forecast period. The results of the unsignalized intersection analyses are shown in Table 5-4. Traffic operations were determined at the intersection using the 1985 Highway Capacity Software for unsignalized intersections. This software is based on the 1985 Highway Capacity Manual, Special Report 209, published by the Transportation Research Board.

TABLE 5-4
SUMMARY OF FUTURE OPERATIONS AT OR 204 AND WATER STREET

Location	Movement	1996 LOS (v/c)	2018 LOS (v/c)
OR 204 and Water St.	Westbound; Left	A (<0.48)	A (<0.48)
	Northbound; Left and Right	A (<0.48	A (<0.48)

Note: The level of service is shown for all evaluated movements of the unsignalized intersection.

#### **Analysis Results**

Traffic movement volumes at the intersection of OR 204 and Water Street are forecast to increase by approximately 48 percent over the 20-year forecast period. However, all traffic movements at the intersection are expected to continue to operate at LOS A (<0.48 v/c) throughout the 20-year forecast period.

# **CHAPTER 6: IMPROVEMENT OPTIONS ANALYSIS**

As required by the Oregon TPR, transportation alternatives were formulated and evaluated for the Weston TSP. These potential improvements were developed with input from the TAC, Management Team, county and city officials, and the public. Each of the transportation system improvement options was developed to address specific deficiencies, access, or safety concerns and attempt to address the concerns specified in the goals and objectives (Chapter 2).

The following list includes all of the potential transportation system improvements considered. Improvement options two and three are illustrated in Figure 6-1.

- 1. Revise zoning code to allow and encourage mixed-use development and redevelopment.
- 2. Establish a roadway maintenance and improvement program.
- 3. Umatilla County roadway project (Key Road).
- 4. Construct a bike path in the southwest section of town.
- 5. Transportation plans for access to future park south of the city.
- 6. Implement transportation demand management strategies.

The proposed transportation system improvements evaluated for the Weston TSP include state highway, county, and local road projects. It should be noted that not all of the transportation improvement options recommended along the county and state systems have identified funding. Therefore, recommended transportation improvements cannot be considered as committed projects, but are subject to the county's and ODOT's abilities to meet these current and future needs financially.

#### **EVALUATION CRITERIA**

The evaluation of the potential transportation improvements in the city of Weston was based on a qualitative review of four factors: 1) safety; 2) access; 3) environmental factors, such as air quality, noise, and water quality; and 4) socioeconomic and land use impacts, such as community livability, right-of-way requirements and impacts on adjacent lands.

A fifth factor in the evaluation of the potential transportation improvements was cost. Costs were estimated in 1998 dollars based on preliminary alignments for each potential transportation system improvement.

# STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM PROJECTS

The Oregon Department of Transportation (ODOT) has a comprehensive transportation improvement and maintenance program that covers the entire state highway system. The Statewide Transportation Improvement Program (STIP) identifies all the highway improvement projects in Oregon. The STIP lists specific projects, the counties in which they are located, and their construction year.

The 2000 to 2003 STIP Update, recently released by ODOT Region 5, identifies one improvement just north of Weston. The project involves pavement reconstruction, guardrail improvements, and minor realignment of the Weston-Elgin Highway (OR 204) from OR 11 north of the City to Basket Mountain Road, east of the City. The total cost of the project is estimated at \$3,857,000 and is scheduled for construction in the year 2001. This STIP project is shown in Figures 6-1.

# COUNTY TRANSPORTATION IMPROVEMENT PROJECTS

The Umatilla County Roadway Department has identified a potential roadway improvement along Kirk Rd. (County Rd. # 648), between the east UGB of Weston and the Weston-Elgin Highway. Improvements include realignment of certain sections of road, adding shoulders, and repaving the entire roadway. The project length is around 5.6 miles and is estimated to cost around \$600,000 to implement. This county project is also shown in Figure 6-1.

## IMPROVEMENT OPTIONS EVALUATION

Through the transportation analysis and input provided from the public involvement program, multiple improvement projects were identified.

# Option 1. Revise Zoning Code to Allow and Encourage Mixed-Use Development and Redevelopment

One of the goals of the Oregon TPR is to reduce the reliance on the automobile. One way city jurisdictions can do this is through amendments in zoning and development codes to permit mixed-use developments and increases in density in certain areas. Mixed-use refers to development that contains more than one type of land-use, e.g., residential and commercial. Specific amendments would allow small-scale commercial uses within residential zones or residential uses within commercial zones. Such code amendments can encourage residents to walk and bicycle throughout the community by providing shorter travel distances between land uses.

These code revisions are generally more effective in medium to large sized cities with populations of 25,000 and over, and in cities such as Weston, they are probably not appropriate. Because of Weston's size, the decision of what mode of transportation to use when making a trip inside the City is not influenced by distance. The longest distance between city limit boundaries in Weston is a little over one mile, a distance short enough to walk, ride a bike, or drive. Distances between different land uses, such as residential and commercial, are even shorter.

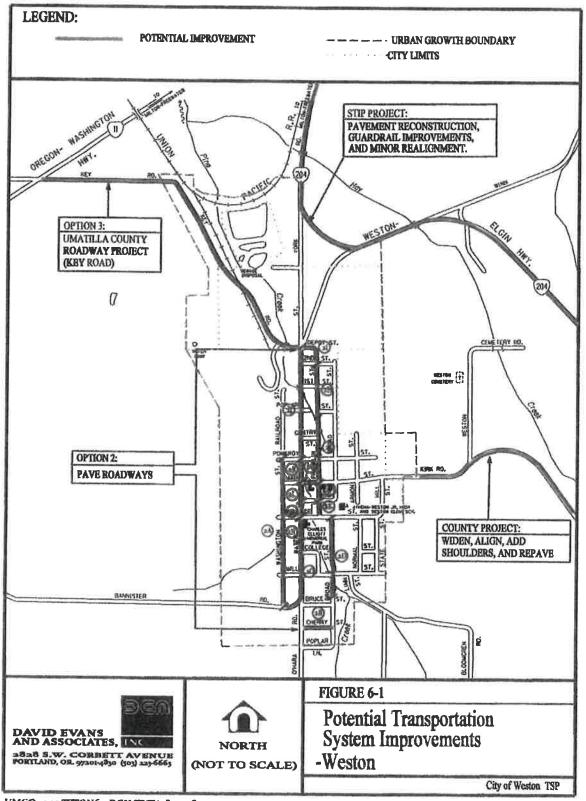
Changing zoning to allow mixed-use development and increased density may have some effect on development in Weston. Population is projected to increase by 7.4 percent (50 additional residents) in the next 20 years. Higher density can result in the provision of lower cost housing to serve the town's growing population.

No direct costs are associated with making the zoning code amendments.

Revisions to zoning and development codes to allow for increased density are recommended. The City of Weston Comprehensive Plan, Zoning Ordinance, and Land Division Ordinance have also been amended in concurrence with the TSP revisions to address applicable TPR requirements, including the addition of provisions to implement the TSP.

# Option 2. Establish a Roadway Maintenance and Improvement Program

Many of the local streets in Weston need paving or repaving. In June 1998, the city of Weston received an estimate from Humbert Asphalt Inc., an asphalt laying company based in Milton-Freewater, to pave or



UMCOccot/WTON6-I.DGN/TNT/08-17-98

repave many local streets. A total of 14 projects have been identified in this estimate. Table 6-1 describes each of these projects including total pavement width, project length, and total construction cost.

TABLE 6-1 STREET PAVING PROJECTS FOR THE CITY OF WESTON

Project No.	Description/Location	Pavement Width*	Project Length	Total Cost
2A	Washington St. (Bannister Rd. to Pomeroy St.)	18 feet	2,300 feet	\$34,360
2B	Main St. (Water St. to Franklin St.)	50 feet	250 feet	\$10,380
2C	South Broad St. (Wallace St. to 1,112 feet south)	18 feet	1,112 feet	\$16,610
2D	Franklin St. (Wallace St. to High St.)	36 feet	290 feet	\$8,660
2E	Franklin St. (High St. to Main St.)	36 feet	215 feet	\$6,420
2F	Franklin St. (Main St. to 2nd Bridge)	25 feet	1,000 feet	\$20,750
2G	Franklin St. (2nd Bridge to 2nd St.)	20 feet	836 feet	\$13,880
2H	Franklin St. (2nd St. to Water St.)	18 feet	440 feet	\$6,570
21	Water St. (Depot St. to Pomeroy St.)	36 feet	1,700 feet	\$50,800
2J	Water St. (Pomeroy St. to Main St.)	37 feet	330 feet	\$10,130
2K	Water St. (Main St. to High St.)	40 feet	226 feet	\$7,500
2L	Water St. (High St. to Wallace St.)	36 feet	324 feet	\$9,680
2M	Water St. (Wallace St. to end of curb)	36 feet	350 feet	\$10,460
2N	Water St. (End of curb to Washington St.)	36 feet	1,265 feet	\$37,800
20	First St. (Water St. to Franklin St.)	20 feet	240 feet	\$3,980
2P	Arman St. (Main St. to Pomeroy St.)	20 feet	250 feet	\$4,150
2Q	West Mill St. (Water St. to Washington St.)	20 feet	261 feet	\$4,330
Total				\$256,460

Note: \*The pavement width specified may be less than the actual street width in areas where gravel is provided along the shoulder(s) for on-street parking.

It should be noted that the pavement widths and total costs for several projects have been modified from the original estimate performed by Humbert Asphalt, Inc. This was done to ensure that all city street upgrades conform to the recommended street standards identified in Chapter 7. Most changes included establishing a minimum pavement width of 18 feet for local streets and a minimum pavement width of 36 feet for collector streets. In areas where the existing street pavement width exceeds the minimum requirements, the existing width was used in the estimate assuming a total asphalt overlay of the roadway.

The cost estimates for the projects identified above assume a construction cost of \$0.83 per square foot of pavement area. This includes cutting and cleaning the edges of streets, patching pot holes, tacking, preleveling the entire street with an average of 1 inch of asphalt, and then overlaying the entire street with 2 inches of asphalt, for a total asphalt overlay of around 3 inches.

Funding for these roadway projects will be provided by the City as funds become available.

Paving or repaving the city streets will improve the efficiency and aesthetics of the local street system, reduce air pollution from dust, and improve the general livability for the city residents. For these reasons, all street paving projects are recommended. The succession of these projects should be decided upon by the

City through a process of prioritization. It is also recommended that each of these projects include the addition of a pedestrian facility in accordance with the recommended street design standards for local and collector streets. However, this may not be possible due to limited city funds.

# Option 3. Umatilla County Roadway Project (Key Road)

The Umatilla County Roadway Department has plans to improve Key Road between OR 11 and Water Street. The reason for including this county project as a street improvement option is because a portion of it falls within the UGB and city limits. This project has been ranked by the county as having the highest priority. Improvements will include roadway widening, alignment and shoulder work, and new pavement. This project is displayed in Figure 6-1.

The cost for these improvements is estimated to be \$300,000.

This project is recommended as it would improve the connection between Weston and OR 11 and major destinations.

# Option 4. Implement Transportation Demand Management Strategies

Transportation demand management (TDM) strategies change the demand on the transportation system by providing facilities for modes of transportation other than single occupant passenger vehicles, implementing carpooling programs, altering work shift schedules, and applying other transportation measures within the community. The TPR recommends that cities evaluate TDM measures as part of their TSP.

TDM strategies are most effective in large, urban cities; however, some strategies can still be useful in small cities such as Weston. For example, staggering work shift schedules at local businesses may not be appropriate in Weston since there are a limited number of large employers in the area. However, provisions for alternative modes of transportation, such as sidewalks and bike lanes, and implementing a countywide carpooling program can be beneficial for residents of the City.

Weston can implement TDM strategies by requiring all future street improvement projects to include the addition of some sort of pedestrian facility, such as new sidewalks or walkways, which will effectively separate pedestrians from motorized traffic. All new street improvement projects should also consider bicycle lanes as well.

Implementing a local carpool program that only serves Weston would not be effective due to the City's geographical size and people living and working in different locations. However, a countywide carpool program is feasible. Residents who live in Weston and residents who live in other cities and rural areas should be encouraged to carpool with a fellow coworker or someone who works in the same area.

Although the primary goal of these measures is to reduce the number of vehicle trips made within the City, especially during peak periods, street capacity for automobiles and trucks is generally not an issue in Weston. At the same time, providing adequate facilities for pedestrians and bicyclists increases the livability of a city, and improves traffic and pedestrian safety. With more emphasis on walking or biking in the City, conditions such as air quality and noise levels would be improved as well. Therefore, this option is recommended.

Costs associated with implementing TDM strategies were not determined.

# **SUMMARY**

Table 6-2 summarizes the recommendations of the street system modal plan based on the evaluation process described in this chapter. Chapter 7 discusses how these improvement options fit into the modal plans for the Weston area.

TABLE 6-2
TRANSPORTATION IMPROVEMENT OPTIONS: RECOMMENDATION SUMMARY

Or	Option		commendation
1.	Revise zoning code to allow and encourage mixed-use development and redevelopment	•	Implement
2.	Establish a roadway maintenance and improvement program	•	Implement
3.	Umatilla County roadway project (Key Road improvements)	•	Implementation by county
4.	Implement transportation demand management strategies	•	Implement

# **CHAPTER 7: TRANSPORTATION SYSTEM PLAN**

The purpose of this chapter is to provide detailed operational plans for each of the transportation systems within the community. The Weston TSP covers all the transportation modes that exist and are interconnected throughout the urban area. Components of the TSP include street classification standards, access management recommendations, transportation demand management measures, modal plans, and a system plan implementation program.

## STREET DESIGN STANDARDS

Street design standards ensure the design of a roadway supports its intended function. The function is determined by operational characteristics such as traffic volume, operating speed, safety, and capacity. Street standards institute design parameters necessary to provide a community with roadways which are relatively safe, aesthetic, and easy to administer when new roadways are planned or constructed. They are based on experience, and policies and publications of the profession.

## **Existing Street Standards**

The city of Weston has no designated street design standards. There are also no standards for bike or pedestrian facilities.

#### Recommended Street Standards

The development of the Weston TSP provides the City with an opportunity to review and revise street design standards to more closely fit with the functional street classification, and the goals and objectives of the TSP. The recommended street standards for all types of functional classifications are shown graphically in Figure 7-1 through Figure 7-2, and are summarized in Table 7-1. Further discussion of each type of street standard follows below.

Since the Weston TSP includes all land within the Urban Growth Boundary (UGB), the recommended street standards should be applied in the outlying areas outside the city limits and within the UGB. Although these outlying areas may presently have a rural appearance, these lands will ultimately be part of the urban area. Retrofitting rural streets in these areas as well as all rural streets within the city limits to urban standards in the future is expensive and controversial; it is more efficient to build them to an acceptable urban standard.

TABLE 7-1
RECOMMENDED STREET DESIGN STANDARDS

Classification	Pavement Width	Right-of-Way Width	Min. Posted Speed
Residential - Option 1	25-28 ft.	49-56 ft.	15-25 mph
Residential – Option 2	21ft.	45-49 ft.	15-25 mph
Residential – Option 3	32-34ft.	56-62 ft.	15-25 mph
Alley	12-16 ft.	16-20 ft.	15 mph
Collector	36-38 ft.	60-66 ft.	25-35 mph
Arterial	52 ft.	78-88 ft.	45 mph

Sidewalks shall be provided on arterial streets and should be included on all urban streets as an important component of the pedestrian system, unless the costs of sidewalks are excessively disproportionate to the need or probable use. Ideally, sidewalks should be buffered from the street by a planting strip to eliminate obstructions in the walkway, provide a more pleasing design, and provide a buffer from traffic. When sidewalks are located directly adjacent to the curb, they can include such impediments as mailboxes, street light, and sign poles, which reduce the effective width of the walk. To maintain a safe and convenient walkway for at least two adults, a 5 foot sidewalk should be used in residential areas.

#### Residential Streets

The design of a residential street affects its traffic operation, safety, and livability. The residential street should be designed to enhance the livability of the neighborhood while accommodating less than 1,200 vehicles per day. Design speeds should be 15 to 25 mph. When traffic volumes exceed approximately 1,000 to 1,200 vehicles per day, the residents on that street will perceive the traffic as a noise and safety problem. To maintain neighborhoods, local residential streets should be designed to encourage low speed travel and to discourage through traffic. Narrower streets discourage speeding and through traffic as well as improve neighborhood aesthetics. They also reduce right-of-way needs, construction costs, stormwater run-off, and the need to clear vegetation.

Three recommended street standard options are provided for residential streets, as shown in Figure 7-2. Each option provides a minimum of 20 feet of pavement and provides varying degrees of on-street parking. Paved walkways and planting strips shall be provided unless (a) the City determines they are precluded by physical constraints, such as steep slopes, wetlands, waterways, existing structures and mature trees, or (b) the city is unable to establish a rough proportionality between this requirement, and the nature and extent of impacts of the proposed development, in accordance with Dolan v. City of Tigard (US Supreme Court, 1994). The City should choose one of these options for each residential street based on the existing right-of-way and neighborhood character.

## **Option 1**

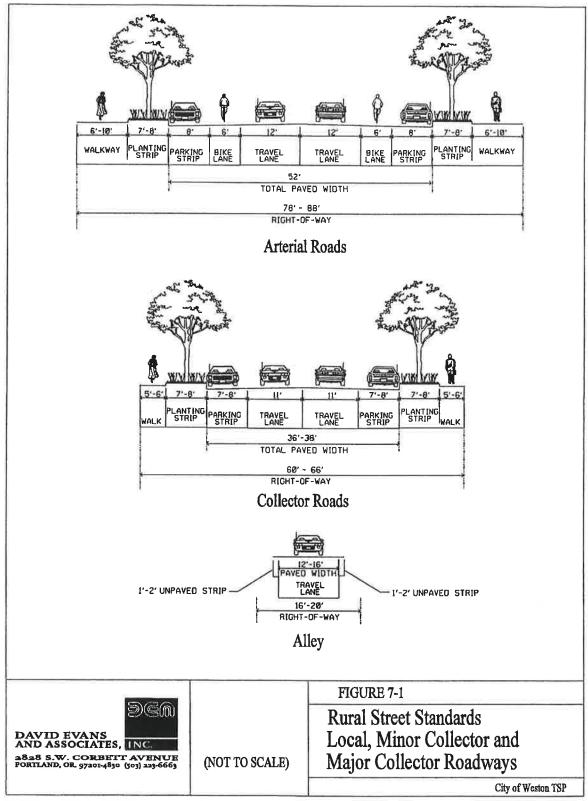
This first option for a local residential street is a 25-28 foot paved roadway surface within a 49 to 56 foot right-of-way. This standard will accommodate passage of one lane of moving traffic in each direction and a seven-foot parking strip on each side. Five to six foot sidewalks and seven to eight foot planting strips should be provided on each side of the roadway. The planting strips may be graded to accommodate parking in appropriate locations.

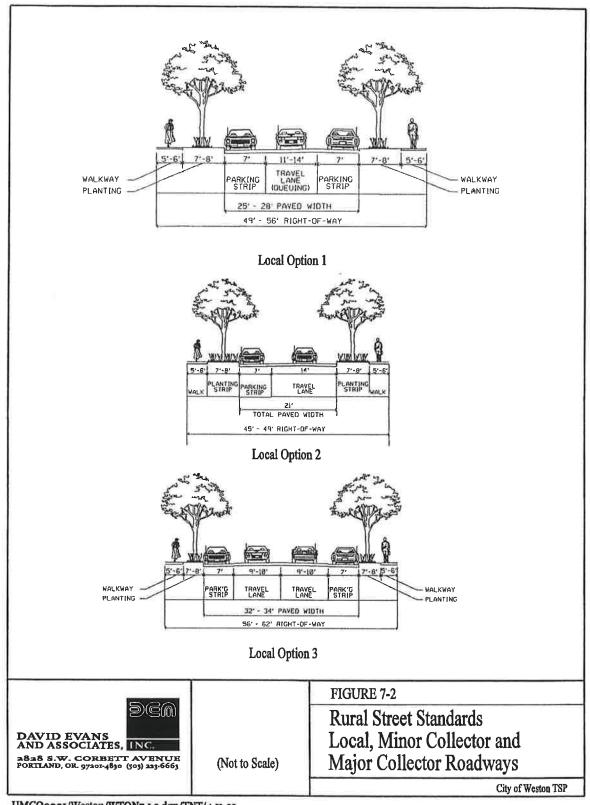
#### Option 2

This option provides a 21 foot paved roadway surface within a 45 to 49 foot right-of-way. This standard will accommodate passage of one lane of moving traffic in each direction, with an eight foot paved parking strip on one side. Five to six foot sidewalks and seven to eight foot planting strips should be provided on each side of the roadway.

# Option 3

A third option for a residential street provides a 32 –34 foot paved roadway within a 56 to 62 foot right-of-way. This standard will accommodate passage of one lane of moving traffic in each direction, with seven-foot paved parking present along both sides of the road. Five to six foot sidewalks should be provided on both sides of the roadway in addition to seven to eight foot planting strips.





## Alleys

Alleys can be a useful way to diminish street width by providing rear access and parking to residential, commercial, and industrial areas. Including alleys in a residential subdivision allows homes to be placed closer to the street and eliminates the need for garages to be the dominant architectural feature. This pattern, once common, has been recently revived as a way to build better neighborhoods. In addition, alleys can be useful in commercial and industrial areas, allowing access by delivery trucks off the main streets. Alleys should be encouraged in the urban area of Weston. Alleys should be 12 to 16 feet wide, with a 16 to 20 foot right-of-way (see Figure 7-1).

#### Cul-de-Sac Streets

Cul-de-sac, or "dead-end" residential streets are intended to serve only the adjacent land in residential neighborhoods. These streets should be short (less than 400 feet long) and serve a maximum of 20 single-family houses. Because the streets are short and the traffic volumes relatively low, the street width can be narrower than a standard residential street, allowing for the passage of two lanes of traffic when no vehicles are parked at the curb and one lane of traffic when vehicles are parked at the curb.

Because cul-de-sac streets limit street and neighborhood connectivity, they should only be used where topographical or other environmental constraints prevent street connections. Where cul-de-sacs must be used, pedestrian and bicycle connections to adjacent cul-de-sacs or through-streets should be included.

#### Collector Streets

Collectors are intended to carry between 1,200 and 10,000 vehicles per day, including limited through-traffic, at a design speed of 25 to 35 mph. A collector can serve residential, commercial, industrial, or mixed land uses. Collectors are primarily intended to serve local access needs of residential neighborhoods by connecting local streets to arterials. Bike lanes are typically not needed in smaller cities like Weston due to slower traffic speeds and low traffic volumes. The recommended street standard provided for collectors, is shown in Figure 7-1. This recommended standard provides one lane of moving traffic in each direction plus parking on both sides and can also be striped to provide two travel lanes plus left-turn lanes at intersections or driveways by removing parking for short distances. Five to six-foot sidewalks should be provided on each side of the roadway. A planting strip has been included with a width of seven to eight feet, which may be used as parking. In the commercial zoning districts, including Downtown and mixed-use districts that permit commercial uses, a minimum of nine (9) foot wide curb-tight paved walkway with tree wells for street trees shall be installed instead of a walkway and planting strip. A least six (6) feet of walkway width shall be unobstructed by tree wells, poles, signs, fire hydrants, mailboxes, benches and other permanent objects. Obstructions shall not be placed in a manner that they impair visibility by motorists.

## Arterial Streets

Arterial streets form the primary roadway network within and through a region. They provide a continuous roadway system that distributes traffic between different neighborhoods and districts. Generally, arterial streets are high capacity roadways that carry high traffic volumes with minimal localized activity. Design speeds should be between 25 and 45 mph (see Figure 7-1). The recommended design standard for arterial streets provides a 52-foot paved surface within a 78-88-foot right-of-way to allow for two 12-foot travel lanes, two six-foot bike lanes, and two eight-foot parking lanes. The bike lanes should be striped between the parking lane and the travel lane. Six to ten-foot sidewalks should be provided on each side of the roadway. A planting strip has been included with a width of seven to eight feet. In the commercial zoning districts, including Downtown and mixed-use districts that permit commercial uses, a minimum of nine (9) foot wide curb-tight paved walkway with tree wells for street trees shall be installed instead of a walkway and planting strip. A least six (6) feet of walkway width shall be unobstructed by tree wells, poles, signs, fire hydrants, mailboxes, benches and other permanent objects. Obstructions shall not be placed in a manner that they impair visibility by motorists.

## Bike Lanes

In cases where a bikeway is proposed within the street right-of-way, 6 feet of roadway pavement should be striped on each side of the street and reserved for bike lanes. The striping should be done in conformance with the *State Bicycle and Pedestrian Plan* (1995). In cases where curb parking will exist with a bike lane, the bike lane will be located between the parking and travel lanes. In some situations, curb parking may have to be removed to permit a bike lane.

Bikeways should be added when a new street is built or improvements are made to existing streets.

On arterial and collector streets that are not scheduled to be improved as part of the street system plan, bike lanes may be added to the existing roadway to encourage cycling, or when forecast traffic volumes exceed 2,500 to 3,000 vehicles per day. The striping of bike lanes on streets that lead directly to schools should be high priority.

#### Sidewalks

A complete pedestrian system should be implemented in the urban portion of Weston. Every arterial street shall have sidewalks on both sides of the roadway as shown on the cross sections in Figure 7-1 through Figure 7-3, and every urban street should have sidewalks on both sides of the roadway unless the cost of providing sidewalks is excessively disproportionate to the need or probable use. Sidewalks on residential streets should be at least 5 feet wide. In addition, pedestrian and bicycle connections should be provided between any cul-desac and other dead-end streets.

Another essential component of the sidewalk system is street crossings. Intersections must be designed to provide safe and comfortable crossing opportunities. Tools to accomplish this include crosswalks, signal timing (to ensure adequate crossing time) when traffic signals are present, and other enhancements such as curb extensions, which are used to decrease pedestrian crossing distance and act as traffic calming measures.

## Street Connectivity

Street connectivity is important because a well-connected street system provides more capacity and better traffic circulation than a disconnected one. Developing a grid system of relatively short blocks can minimize excessive volumes of motor vehicles along roads by providing a series of equally attractive or restrictive travel options. Short block sizes also benefit pedestrians and bicyclists by shortening travel distances and making travel more convenient. The average block sizes within the City's grid system range between 275 and 350 feet square, which are ideal block sizes. To ensure that this pattern of development continues into the future, a maximum block perimeter of 1,200 feet is recommended. This feature is critical to Weston's continued livability.

#### ACCESS MANAGEMENT

Access management is an important tool for maintaining a transportation system. Too many access points can diminish the function of an arterial, mainly due to delays and safety hazards created by turning movements. Traditionally, the response to this situation is to add lanes to the street. However, this can lead to increases in traffic and, in a cyclical fashion, require increasingly expensive capital investments to continue to expand the roadway.

Reducing capital expenditures is not the only argument for access management. Additional driveways along arterial streets lead to an increased number of potential conflict points between vehicles entering and exiting the driveway, and through vehicles on the arterial streets. This increases vehicle delay, deteriorates the level of service on the arterial, and reduces safety.

Research has shown a direct correlation between the number of access points and collision rates. In addition, the wider arterial streets that can ultimately result from poor access management can diminish the livability of a community. Therefore, it is essential that all levels of government maintain the efficiency of existing arterial streets through better access management.

#### Access Management Techniques

The number of access points to an arterial can be restricted through the following techniques:

- Restrictions on spacing between access points (driveways) based on the type of development and the speed along the arterial.
- Sharing of access points between adjacent properties.
- Providing access via collector or local streets where possible.
- Constructing frontage roads to separate local traffic from through-traffic.
- Providing service drives to prevent spill-over of vehicle queues onto the adjoining roadways.
- Providing acceleration, deceleration, and right-turn only lanes.
- Offsetting driveways to produce T-intersections to minimize the number of conflict points between traffic using the driveways and through traffic.
- Installing median barriers to control conflicts associated with left-turn movements.
- Installing barriers to the property along the arterial to restrict access width to a minimum.

# Recommended Access Management Standards

Access management is hierarchical, ranging from complete access control on freeways to increasing use of streets for access purposes to including parking and loading at the local and minor collector level. Table 7-2 describes recommended general access management guidelines by roadway functional classification.

TABLE 7-2
RECOMMENDED ACCESS MANAGEMENT STANDARDS

	Intersections			
	Public Road		Private Drive(2)	
Functional Classification	Type(1)	Spacing	Type	Spacing
Arterial	See A	ccess Manag	ement Spacing S	
Weston-Elgin Highway (OR 204)		_	999 Oregon Hig	,
Collector (3)				
Water Street, Winn Road, Key Road, Main Street, Bannister Road	at-grade	250 ft.	L/R Turns	100 ft.
Residential Street	at-grade	250 ft.	L/R Turns	Access to
Alley (Urban)	at-grade	100 ft.	L/R Turns	Access to Each Lot

#### Notes:

(1) For most roadways, at-grade crossings are appropriate.

(3) Some sections of these roads are designated as residential streets, where the residential access management standard applies.

# Application

These access management standards are generally not intended to eliminate existing intersections or driveways. Rather, they should be applied as new development occurs. Over time, as land is developed and redeveloped, the access to roadways will meet these guidelines. However, where there is a recognized problem, such as an unusual number of collisions, these techniques and standards can be applied to retrofit existing roadways.

To summarize, access management strategies consist of managing the number of access points and providing traffic and facility improvements. The solution is a balanced, comprehensive system that provides reasonable access while maintaining the safety and efficiency of traffic movement.

## State Highways

Access management is important to promoting safe and efficient travel for both local and long distance users along the Weston-Elgin Highway (OR 204) bordering the north UGB of Weston. The 1999 Oregon Highway Plan specifies access management spacing standards and policies for state facilities.

Although Weston may designate state highways as arterial roadways within their transportation systems, the access management categories for these facilities should follow the Access Spacing Standards of the 1999 Oregon Highway Plan. These spacing standards are based on highway classification, type of area and speed, which are shown in the appendix to this document. This section of the TSP describes the state highway access management objectives and specific highway segments where special access areas may apply.

<sup>(2)</sup> Allowed moves and spacing requirements may be more restrictive than those shown to optimize capacity and safety. Also, see section on "Access Control Rights" along state highways below.

The Weston-Elgin Highway is categorized in the 1999 Oregon Highway Plan as a Regional Highway. The management objective to regional urban highways is to provide for efficient and safe medium to high speed and medium to high volume traffic movements. There are no special highway segments identified in the 1999 Oregon Highway Plan that apply to the Weston-Elgin Highway in Weston.

#### **ACCESS CONTROL RIGHTS**

Historically, owners of property abutting public roadways have enjoyed a common law abutter's right of access to the roadway. However, in order to provide for a transportation system that would accommodate changing public needs, legislation has been passed to modify the rights of access. Oregon Revised Statutes specify among other property rights, the right of access can be purchased or condemned as deemed necessary for rights-of-way. The Oregon Department of Transportation has purchased access control rights from many properties along state highways.

Once the state has acquired the access rights to a property, road approach permits can only be issued at locations on the property where the right of access has been reserved. These "reservations of access" give the property owner the common law right of access to the state highway only at specific locations and they are clearly identified in the deed where the property owner sold the right of way to the state. If the owner wants to gain additional access rights to the highway, they must apply for a "grant" of access.

There may be local street connections shown in this Transportation System Plan that will require modifying the existing access rights or gaining additional access rights to the state highway system. Review of this TSP by ODOT does not imply tacit approval to modify or grant additional access rights. This must be accomplished by applying to ODOT for such modification or grant.

An "indenture of access" is used to modify existing access rights such as moving or widening the reservation or lifting other restrictions that may have been placed on it. A "grant of access" is required to gain an additional access point to the highway and, depending on the circumstances, may require payment to the state for the market value of the grant. Application for both the indenture and grant of access is made to local ODOT district office.

#### MODAL PLANS

The Weston modal plans have been formulated using information collected and analyzed through a physical inventory, forecasts, goals and objectives, and input from area residents. The plans consider transportation system needs for Weston during the next 20 years assuming the growth projections discussed in Chapter 5. The timing for individual improvements will be guided by the changes in land use patterns, growth of the population in future years, and available funds. Specific projects and improvement schedules may need to be adjusted depending on when and where growth occurs in Weston.

## Street System Plan

The street system plan recommends any changes necessary to the current street classification system and outlines a series of improvements that are recommended for construction within the city of Weston during the next 20 years. These options have been discussed in Chapter 6 (Improvement Options Analysis). Projects which make up the proposed street system plan are summarized in Table 7-3.

## Street System Functional Classification

Street system functional classifications relate the design of a roadway to its function. The function is determined by operational characteristics such as travel demand, street capacity, and the operating speed of the roadway. The city of Weston currently classifies all streets within the Urban Growth Boundary as either arterial, collector, or local streets. A review of the existing street system inventory, the recommended street design standards, and all new projects recommended in the street system plan indicates no changes are necessary at this time to the existing roadway functional classification. Therefore, the existing street classification will be maintained as shown in Figure 3-1 and described as follows:

- Weston-Elgin Highway (OR 204) classified as an arterial roadway, as it is a Regional Highway, it carries the highest traffic volumes past the City, and it is the primary route to other cities in the county and state.
- Water Street (North UGB to south UGB) classified as a collector street, as its function is to connect local neighborhoods with the downtown area, the Weston-Elgin Highway to the north, and OR 11 to the west via Key Road and Bannister Road.
- Winn Road (Water Street to Weston-Elgin Highway) classified as a collector street, as its function
  is to connect local neighborhoods with the Weston-Elgin Highway to the northeast.
- Key Road (Waster Street to OR 11) classified as a collector street, as its function is to connect local neighborhoods with OR 11 to the northwest.
- Main Street (Water Street to east UGB) classified as a collector street, as its function is to connect
  local neighborhoods to the downtown area and to Old Tolgate Highway, a county road leading east
  out of town.
- Bannister Road (West UGB to Water Street) classified as a collector street, as its function is to connect local neighborhoods with OR 11 to the west.
- All other roads classified as local streets.

### Street Improvement Projects

Table 7-3 presents street improvement projects within the urban area that compose the street system plan. Prioritization of these projects is at the discretion of the City and/or county, depending upon jurisdiction over the project. The ODOT STIP project along the Weston-Elgin Highway (OR 204) and the county roadway project along Kirk Road (County Road # 648) have been omitted from the project list since these projects fall outside the city limits and Urban Growth Boundary and outside the jurisdiction of the City. The other county roadway project along Key Road (County Road #682) has been included in the street system plan since the project limits fall within the UGB and city limits.

It should be noted that the inclusion of a project in the TSP does not constitute a commitment by ODOT or the county that either agency will participate in the funding of the project. ODOT's participation will be determined via the biennial updates of the multi-year STIP process, and the construction of any project is contingent upon the availability of future revenues. The county's participation will be according to project prioritization as indicated in the Capital Improvement Plan, and contingent upon available funding.

TABLE 7-3
RECOMMENDED STREET SYSTEM PROJECTS

Project		
Number	Location/Description	Cost
3.	Key Rd. (OR 11 to Water St.)	\$300,000
2A	Washington St. (Bannister Rd. to Pomeroy St.)	\$34,360
2B	Main St. (Water St. to Franklin St.)	\$10,380
2C	South Broad St. (Wallace St. to 1,112 feet south)	\$16,610
2D	Franklin St. (Wallace St. to High St.)	\$8,660
2E	Franklin St. (High St. to Main St.)	\$6,420
2F	Franklin St. (Main St. to 2nd Bridge)	\$20,750
2G	Franklin St. (2nd Bridge to 2nd St.)	\$13,880
2H	Franklin St. (2nd St. to Water St.)	\$6,570
21	Water St. (Depot St. to Pomeroy St.)	\$50,800
2J	Water St. (Pomeroy St. to Main St.)	\$10,130
2K	Water St. (Main St. to High St.)	\$7,500
2L	Water St. (High St. to Wallace St.)	\$9,680
2M	Water St. (Wallace St. to end of curb)	\$10,460
2N	Water St. (End of curb to Washington St.)	\$37,800
20	First St. (Water St. to Franklin St.)	\$3,980
2P	Arman St. (Main St. to Pomeroy St.)	\$4,150
2Q	West Mill St. (Water St. to Washington St.)	\$4,330
otal		\$556,460

## Pedestrian System Plan

A complete, interconnected pedestrian system should be implemented in the City when feasible. A sidewalk inventory revealed that there are sidewalks located mainly in the downtown core along Water Street and Main Street. Most local streets lack a pedestrian walkway. Every paved street should have sidewalks on both sides of the roadway, to meet the recommended street standards, except in extenuating circumstances. Continuous pedestrian access on walkways should be provided between businesses, parks, and adjacent neighborhoods. (Ordinances specifying these requirements are included in Chapter 9.)

Because of the small size of Weston and the limited public resources available for transportation system improvements, sidewalk construction on a large scale may not be feasible. However, the City should require sidewalks to be constructed as part of any major roadway improvements, or as adjacent land is developed.

The primary goal of establishing a pedestrian system is to improve pedestrian safety; however, an effective sidewalk system has several qualitative benefits as well. Providing adequate pedestrian facilities increases the livability of a city. When pedestrians can walk on a sidewalk, separated from vehicular street traffic, it makes the walking experience more enjoyable and may encourage walking, rather than driving, for short trips. Sidewalks enliven a downtown and encourage leisurely strolling and window shopping in commercial areas. This "main street" effect improves business for downtown merchants and provides opportunities for friendly interaction among residents. It may also have an appeal to tourists as an inviting place to stop and walk around.

The cost to construct a concrete sidewalk facility is approximately \$25 per linear foot. This assumes a sidewalk width of 5 feet with curbing. The cost estimate also assumes the sidewalks are composed of 4

inches of concrete and 6 inches of aggregate. As an alternative, asphalt walkways could be provided instead of a concrete sidewalk at a lower initial cost. Construction costs for this type of facility are typically about 40 percent of the costs for concrete sidewalks; however, maintenance, such as sealing and resurfacing the asphalt, must occur more frequently.

## Bicycle System Plan

All new sidewalk construction in the City should include curb cuts for wheelchairs at every street corner to comply with the Americans with Disabilities Act (ADA). The addition of crosswalks should also be considered at all major intersections. As improvements are made to the existing street system, projects involving the construction of new sidewalks may require implementation of on-street parking in place of parking on grass or gravel shoulders.

On the collector and local streets in Weston, bicyclists share normal vehicle lanes with motorists. Due to low travel speeds and traffic volumes observed in the City, shared usage of the roadway between bicyclists and automobiles is appropriate.

The City is currently in the preliminary stages of planning a bicycle path in the south section of town around the area of Water Street, O'Hara Road, and Broad Street. Although no set route has been determined, there are several undeveloped parcels of land in the area that the City would like to use in developing a bicycle path. The exact details of this project have not been determined at this time.

Bicycle parking is lacking in Weston. Bike racks should be installed in front of downtown businesses and all public facilities (schools, post office, library, city hall, and parks). Typical rack designs cost about \$50 per bike plus installation. An annual budget of approximately \$1,500 to \$2,000 should be established so that Weston can begin to place racks where needs are identified and to respond to requests for racks at specific locations. Bicycle parking requirements are further addressed in Chapter 9 (Policies and Ordinances).

# **Transportation Demand Management Plan**

Through transportation demand management (TDM), peak travel demands can be reduced or spread over time to more efficiently use the existing transportation system, rather than building new or wider roadways. Techniques which have been successful and could be initiated to help alleviate some traffic congestion include carpooling and vanpooling, alternative work schedules, bicycle and pedestrian facilities, and programs focused on high density employment areas.

In Weston, because traffic volumes are low, capacity of the local street system is not an issue. Therefore, implementing TDM strategies may not be practical in most cases. However, the sidewalk and bicycle improvements recommended earlier in this chapter are also considered TDM strategies. By providing these facilities, the city of Weston is encouraging people to travel by modes other than the automobile.

Because intercity commuting is a factor in Umatilla County, residents who live in Weston and work in other cities should be encouraged to carpool with a coworker or someone who works in the same area. Implementing a local carpool program in Weston alone is not practical because of the City's small size; however, a county-wide carpool program is feasible. The city of Weston should support state and county carpooling and vanpooling programs that could further boost carpooling ridership.

No costs have been estimated for the TDM plan. Grants may be available to set up programs; other aspects of transportation demand management can be encouraged through ordinances and policy.

## **Public Transportation Plan**

As described in Chapter 3, the only intercity bus service in Umatilla County is provided by Greyhound bus lines which provides service along I-84, US 395, and OR 11 within Umatilla County. Greyhound has terminals located in Hermiston and Pendleton that connect these cities to each other and major population centers outside of the county. The Hermiston terminal has two departures heading southeast (with stops in Pendleton, La Grande, Boise, and Salt Lake City); three buses running west to Portland; and two buses heading north on US 395 to Pasco and Spokane daily. The Pendleton terminal has three departures southeast (with stops in La Grande, Boise and Salt Lake City); three departures west to Portland; and two departures north to Seattle via Walla Walla, Pasco, and Spokane daily.

Because of the small size of Weston, ridership demand is not high enough for Greyhound bus lines to feasible provide service to the City. Bus service may be provided in the future to the city of Milton-Freewater, but Weston is located almost equidistant to Milton-Freewater as it is to the city of Pendleton, where service is already provided.

Pendleton, Hermiston, Pilot Rock, and the Umatilla Indian Reservation have dial-a-ride type service available for the transportation disadvantaged. Dial-a-ride service is defined as door-to-door service initiated by a user's request for transportation service from his/her origin to specific locations on an immediate or advance reservation basis. These services are provided by the Pendleton Senior Center in Pendleton, the Confederated Tribes of the Umatilla Indian Reservation on the Umatilla Indian Reservation, the Hermiston Senior Center in Hermiston, and the Pilot Rock Lions Club in Pilot Rock. A similar kind of service could be appropriate for Weston.

Weston has no local fixed-route transit service at this time. The small size and low traffic volumes on city streets indicate that mass transit is not necessary or economically feasible at this time. The TPR exempts cities with a population of less than 25,000 from developing a transit system plan or a transit feasibility study as part of their TSPs.

#### Rail Service Plan

Weston has no passenger or freight rail service. Until recently, Amtrak service was available in Hermiston and Pendleton along the rail line which follows the I-84 corridor from Portland to Boise, Idaho and points east. Amtrak is currently experiencing a funding crisis. As a result, passenger service between Portland and Denver, including service to cities within Umatilla County, was discontinued in May 1997. This line now serves only freight traffic.

Another freight line near Weston is the Union Pacific main line that runs through Pendleton and Hermiston. In addition, there is a switch line out of Pendleton which hauls freight from Pilot Rock two to three days per week.

#### Air Service Plan

Weston does not have its own air service within the City. However, there are many airport facilities nearby. Eastern Oregon Regional Airport is located in Pendleton, approximately 25 miles southwest of Weston, and provides commercial air service. Hermiston Municipal Airport is located in Hermiston, approximately 50 miles west of Weston, and provides chartered flights. Other small nearby airports in the county include: Barrett Field northwest of Athena, the Pea Growers' Field south of Athena, and Curtis Airfield northwest of Pendleton. These airports are small, private, uncontrolled airstrips mainly used for crop dusting operations.

## **Pipeline Service**

The Pacific Northwest Gas pipeline runs north-south between Weston and Athena. Cascade Natural Gas provides natural gas to consumers in Weston from this pipeline. There are no plans at this time for expansion or relocation of this gas line.

## Water Transportation

Weston has no water transportation services.

### TRANSPORTATION SYSTEM PLAN IMPLEMENTATION PROGRAM

Implementation of the Weston TSP will require changes to both the City comprehensive plan and the zoning code and preparation of a 20-year Capital Improvement Plan (CIP). These actions will enable Weston to address both existing and emerging transportation issues throughout the urban area in a timely and cost effective manner.

One part of the implementation program is the formulation of a 20-year CIP. The purpose of the CIP is to detail what transportation system improvements will be needed as Weston grows and provide a process to fund and schedule the identified transportation system improvements. It is expected that the TSP Capital Improvement Plan can be integrated into the existing city and county CIP and the ODOT STIP. This integration is important since the TSP proposes that city, county, and state governmental agencies fund all or some of the transportation improvement projects.

Model policy and ordinance language that conforms with the requirements of the TPR is included in Chapter 9. The proposed ordinance amendments will require approval by the Weston City Council and those that affect the unincorporated urban area will also require approval by the Umatilla Board of County Commissioners.

# 20-Year Capital Improvement Program

Table 7-4 summarizes the CIP and provides cost information. The cost estimates for all the projects listed in the CIP were prepared on the basis of 1998 dollars. These costs include design, construction, and some contingency costs. They are preliminary estimates and generally do not include right-of-way acquisition, water or sewer facilities, or adding or relocating public utilities. The following schedule is not a prioritized list and scheduled implementation of these projects is at the discretion of the City and/or county, depending upon jurisdiction over the project.

weston has identified a total of 18 projects in its CIP with a cost of \$556,460.

TABLE 7-4 CAPITAL IMPROVEMENT PROGRAM (1998 DOLLARS)

		Costs (\$ x 1,000)				
Project No.	Location/Description	City	County	State	Private	Total
3.	Key Rd. (OR 11 to Water St.)		\$300.00			\$300.00
2A.	Washington St. (Bannister Rd. to Pomeroy St.)	\$34.36				\$34.36
2B	Main St. (Water St. to Franklin St.)	\$10.38				\$10.38
2C	South Broad St. (Wallace St. to 1,112 feet south)	\$16.61				\$16.61
2D	Franklin St. (Wallace St. to High St.)	\$8.66				\$8.66
2E	Franklin St. (High St. to Main St.)	\$6.42				\$6.42
2F	Franklin St. (Main St. to 2nd Bridge)	\$20.75				\$20.75
2G	Franklin St. (2nd Bridge to 2nd St.)	\$13.88				\$13.88
2H	Franklin St. (2nd St. to Water St.)	\$6.57				\$6.57
2I	Water St. (Depot St. to Pomeroy St.)	\$50.80				\$50.80
<b>2</b> J	Water St. (Pomeroy St. to Main St.)	\$10.13				\$10.13
2K	Water St. (Main St. to High St.)	\$7.50				\$7.50
) 2L	Water St. (High St. to Wallace St.)	\$9.68				\$9.68
2M	Water St. (Wallace St. to end of curb)	\$10.46				\$10.46
2N	Water St. (End of curb to Washington St.)	\$37.80				\$37.80
20	First St. (Water St. to Franklin St.)	\$3.98				\$3.98
2P	Arman St. (Main St. to Pomeroy St.)	\$4.15				\$4.15
2Q	West Mill St. (Water St. to Washington St.)	\$4.33				\$4.33
Total		\$256.46	\$300.00	\$0	\$0	\$556.46

Note: TBD – To be determined at a later time.

## CHAPTER 8: FUNDING OPTIONS AND FINANCIAL PLAN

The Transportation Planning Rule requires Transportation System Plans to evaluate the funding environment for recommended improvements. This evaluation must include a listing of all recommended improvements, estimated costs to implement those improvements, a review of potential funding mechanisms, and an analysis of existing sources' ability to fund proposed transportation improvement projects. Weston's TSP identifies 16 recommended projects costing over \$544,000 over the next 20 years. This section of the TSP provides an overview of Weston's revenue outlook and a review of some funding and financing options that may be available to the city of Weston to fund the improvements.

Pressures from increasing growth throughout much of Oregon have created an environment of estimated improvements that remain unfunded. Weston will need to work with Umatilla County and ODOT to finance the potential new transportation projects over the 20-year planning horizon. The actual timing of these projects will be determined by the rate of population and employment growth actually experienced by the community. This TSP assumes Weston will grow at a rate comparable to past growth, consistent with the county-wide growth forecast. If population growth exceeds this rate, the improvements may need to be accelerated. Slower than expected growth will relax the improvement schedule.

## HISTORICAL STREET IMPROVEMENT FUNDING SOURCES

In Oregon, state, county, and city jurisdictions work together to coordinate transportation improvements. Table 8-1 shows the distribution of road revenues for the different levels of government within the state by jurisdiction level. Although these numbers were collected and tallied in 1991, ODOT estimates that these figures accurately represent the current revenue structure for transportation-related needs.

TABLE 8-1 SOURCES OF ROAD REVENUES BY JURISDICTION LEVEL

	Jı	risdiction Level		All
Revenue Source	State	County	City	Funds
State Road Trust	58%	38%	41%	48%
Local	0%	22%	55%	17%
Federal Road	34%	40%	4%	30%
Other	9%	0%	0%	4%
Total	100%	100%	100%	100%

Source: ODOT 1993 Oregon Road Finance Study.

At the state level, nearly half (48 percent in Fiscal Year 1991) of all road-related revenues are attributable to the state highway fund, whose sources of revenue include fuel taxes, weight-mile taxes on trucks, and vehicle registration fees. As shown in the table, the state road trust is a considerable source of revenue for all levels of government. Federal sources (generally the federal highway trust account and federal forest revenues) comprise another 30 percent of all road-related revenue. The remaining sources of road-related revenues are generated locally, including property taxes, LIDs, bonds, traffic impact fees, road user taxes, general fund transfers, receipts from other local governments, and other sources.

As a state, Oregon generates 94 percent of its highway revenues from user fees, compared to an average of 78 percent among all states. This fee system, including fuel taxes, weight distance charges, and registration fees, is regarded as equitable because it places the greatest financial burden upon those who create the greatest need for road maintenance and improvements. Unlike many states that have indexed user fees to inflation, Oregon has static road-revenue sources. For example, rather than assessing fuel taxes as a percentage of price per gallon, Oregon's fuel tax is a fixed amount (currently 24 cents) per gallon.

# Transportation Funding in Umatilla County

Historically, sources of road revenues for Umatilla County have included federal grants, state revenues, intergovernmental transfers, interest from the working fund balance, and other sources. Transportation revenues and expenditures for Umatilla County are shown in Table 8-2 and Table 8-3.

TABLE 8-2
UMATILLA COUNTY TRANSPORTATION-RELATED REVENUES

	1992-1993	1993-1994	1994-1995	1995-1996	1996-1997	1997-1998
	Actual	Actual	Actual	Actual	Budget	Budget
Beginning Balance	\$1,187,957	\$992,044	\$903,997	\$1,762,230	\$1,600,000	\$1,300,000
DMV License & Gas Tax Fees	\$2,956,777	\$3,145,649	\$3,258,762	\$3,356,616	\$3,400,000	\$3,400,000
Misc. State Receipts			\$635,655	\$222,990	\$209,000	\$219,000
National Forest Rental	\$1,061,341	\$589,248	\$534,150	\$189,902	\$180,000	\$180,000
Mineral Leasing 75%				\$125		
Misc. Federal Receipts	\$1,968	\$1,670	\$1,208	\$77,681		
Interest on Invested Funds	\$72,834	\$38,672	\$77,885	\$92,220	\$75,000	\$75,000
Refunds & Reimbursements		\$75		\$338		•
Sale of Public Lands	\$20,144	\$14,363	\$5,443	\$102	\$15,000	\$5,000
Rentals/Sale of Supplies	\$15,318	\$16,565	\$51,748	\$74,498	\$45,000	\$27,000
BLM Maintenance Agreement		\$2,000				
Misc. Receipts-Local	\$26,662	\$102,916	\$143,691	\$48,997		
Service Center	\$46,996	\$55,961	\$53,361	\$61,189	\$58,500	\$64,000
Rural Address fund					\$30,000	•
	\$5,389,996	\$4,959,163	\$5,665,900	\$5,886,887	\$5,612,500	\$5,270,000

Source: Umatilla County.

As shown in Table 8-2, revenues remained relatively stable (between a low of just under \$5 million in 1993-1994 to a high of nearly \$5.9 million in 1995-1996). Approximately \$3 million of the annual revenues come from the state highway fund, rising slightly from \$3 million in 1992-1993 to an estimated \$3.4 million in 1996-1997. A declining amount has come from federal apportionment (mostly federal forest receipts). Twenty-five percent of federal forest revenue (the 25-percent fund) is returned to the counties based on their share of the total acreage of federal forests. Westside national forests in Oregon and Washington are subject to the Spotted Owl Guarantee, which limits the decline of revenues from these forests to three percent annually. Oregon Forests under the Owl Guarantee include the Deschutes, Mount Hood, Rogue River, Siskiyou, Siuslaw, Umpqua, and Willamette national forests. Forest revenues distributed to Umatilla County are from the Umatilla and Whitman forests, not subject to the Owl Guarantee and, therefore, are more difficult to predict. With a healthy working capital balance, the county has also been able to generate between \$40,000 and \$90,000 annually in interest on its invested funds.

TABLE 8-3
UMATILLA COUNTY TRANSPORTATION-RELATED EXPENDITURES

	COCIAL III	NOI ONIAL	TOTI-KELATI	ED EXTERDI	LUKES	
	1992-1993	1993-1994	1994-1995	1995-1996	1996-1997	1997-1998
	Actual	Actual	Actual	Actual	Budget	Budget
Personal Services	\$1,908,211	\$1,878,969	\$1,956,968	\$2,077,603	\$2,260,676	\$2,304,704
Materials and Services	\$1,897,273	\$1,961,106	\$1,564,591	\$1,735,853	\$2,131,925	\$1,972,800
Capital Outlay	\$601,846	\$225,074	\$385,176	\$404,357	\$400,000	\$400,000
Contingency					\$568,840	\$334,224
Transfer to Road Improvement	it Fund				\$11,555	,
Transfer to General Fund						\$58,272
	4,407,330	\$4,065,149	\$3,906,735	\$4,217,813	\$5,372,996	\$5,070,000
0 11 111 0						

Source: Umatilla County.

As shown in Table 8-3, Umatilla County has spent between \$225,000 and \$600,000 annually in capital improvements. The county also transfers money to a road improvement fund for larger-scale capital improvements. The bulk of expenditures in the road fund are for personal services and materials and services relating to maintenance.

In addition to the road department fund, Umatilla County has a separate bicycle path fund. Its revenues and expenditure history are shown below in Table 8-4. Like the road fund, the bicycle path fund is developing a healthy working capital balance, supporting additional interest income, thereby reducing its dependence on the gas taxes collected through the state highway fund.

TABLE 8-4
UMATILLA COUNTY BICYCLE PATH FUND REVENUES AND EXPENDITURES

	1995-1996	1996-1997	1997-1998
Actual	Actual	Budget	Budget
\$230,059	\$260,652	\$299,775	\$349,775
\$32,917	\$32,946	\$34,000	\$34,000
\$13,073	\$16,251	\$16,000	\$18,000
\$45,989	\$49,197	\$50,000	\$52,000
\$15,396		\$150,000	\$100,000
\$15,396	\$-	\$150,000	\$100,000
	\$230,059 \$32,917 \$13,073 \$45,989 \$15,396	\$230,059 \$260,652 \$32,917 \$32,946 \$13,073 \$16,251 \$45,989 \$49,197 \$15,396	\$230,059 \$260,652 \$299,775 \$32,917 \$32,946 \$34,000 \$13,073 \$16,251 \$16,000 \$45,989 \$49,197 \$50,000 \$15,396 \$150,000

Source: Umatilla County.

## Revenues and Expenditures in the City of Weston

Like most jurisdictions in Oregon, the city of Weston funds street operations, maintenance, and improvements through revenue from the state highway funds, interest from its working capital balance, and grants for specific projects. Generally, the state highway fund provides a large proportion of the revenues available for local jurisdiction's roadway moneys. Spending is typically disaggregated in the following categories: personal services, materials and equipment, and capital improvements, with the bulk of the expenditures used for maintenance and operations.

# Transportation Revenue Outlook in the City of Weston

ODOT's policy section recommends certain assumptions in the preparation of transportation plans. In its *Financial Assumptions* document prepared in May 1998, ODOT projected the revenue of the state highway fund through year 2020. The estimates are based on not only the political climate, but also the economic structure and conditions, population and demographics, and patterns of land use. The latter is particularly important for state-imposed fees because of the goals in place under Oregon's Transportation Planning Rule (TPR) requiring a 10-percent reduction in per-capita vehicle miles of travel (VMT) in Metropolitan Planning Organization (MPO) areas by year 2015, and a 20-percent reduction by year 2025. This requirement will affect the 20-year revenue forecast from the fuel tax. ODOT recommends the following assumptions:

- Fuel tax increases of one cent per gallon per year (beginning in year 2002), with an additional one cent per gallon every fourth year.
- Vehicle registration fees would be increased by \$10 per year in 2002, and by \$15 per year in year 2012.
- Revenues will fall halfway between the revenue-level generated without TPR and the revenue level if TPR goals were fully met.
- Revenues will be shared among the state, counties, and cities on a "50-30-20 percent" basis rather than the previous "60.05-24.38-15.17 percent" basis.
- Inflation occurs at an average annual rate of 3.6 percent (as assumed by ODOT).

Figure 8-1 shows the forecast in both current-dollar and inflation-deflated constant (1998) dollars. As highlighted by the constant-dollar data, the highway fund is expected to grow slower than inflation early in the planning horizon until fuel-tax and vehicle-registration fee increases occur in year 2002, increase to a rate somewhat faster than inflation through year 2015, and continue a slight decline through the remainder of the planning horizon.

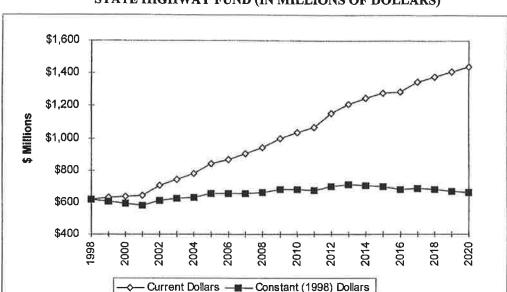


FIGURE 8-1
STATE HIGHWAY FUND (IN MILLIONS OF DOLLARS)

Source: ODOT Financial Assumptions.

As the state highway fund is expected to be a significant source of funding for Weston, the City is highly susceptible to changes in the state highway fund. In order to analyze the City's ability to fund the recommended improvements from current sources, DEA applied the following assumptions:

- ODOT state highway fund assumptions as outlined above.
- The state highway fund will account for the majority of the City's street fund.
- Interest and other local sources continue to provide stable revenue streams.
- The proportion of revenues available for capital expenditures for street improvements is estimated to have averaged \$1,000 annually.

Communities of similar size to Weston tend to have between \$1,000 and \$5,000 available annually to fund capital improvements from existing sources. To be conservative, this analysis will assume that the city of Weston has had approximately \$1,000 annually from existing sources to fund capital improvements. Applying this and the assumptions about the state highway fund as recommended by ODOT yields total resources between \$900 and \$1,200 as shown in Table 8-5.

TABLE 8-5
ESTIMATED RESOURCES AVAILABLE TO CITY OF WESTON
FROM STATE HIGHWAY FUND, 1998 DOLLARS

	Estimated Funds Available
Year	for Capital Outlay
1999	\$1,000
2000	\$1,000
2001	\$1,000
2002	\$900
2003	\$1,000
2004	\$1,000
2005	\$1,000
2006	\$1,100
2007	\$1,100
2008	\$1,100
2009	\$1,100
2010	\$1,100
2011	\$1,100
2012	\$1,100
2013	\$1,100
2014	\$1,200
2015	\$1,100
2016	\$1,100
2017	\$1,100
2018	\$1,100
2019	\$1,100
2020	\$1,100

The amount actually received from the state highway fund will depend on a number of factors, including the actual revenue generated by state gasoline taxes, vehicle registration fees, and other sources, and the population growth in Weston (since the distribution of state highway funds is based on an allocation formula which includes population).

#### REVENUE SOURCES

In order to finance the recommended transportation system improvements requiring expenditure of capital resources, it will be important to consider a range of funding sources. Although the property tax has traditionally served as the primary revenue source for local governments, property tax revenue goes into general fund operations, and is typically not available for road improvements or maintenance. Despite this limitation, the use of alternative revenue funding has been a trend throughout Oregon as the full implementation of Measures 5 and 47 have significantly reduced property tax revenues (see below). The alternative revenue sources described in this section may not all be appropriate in Weston; however, this overview is being provided to illustrate the range of options currently available to finance transportation improvements during the next 20 years.

## **Property Taxes**

Property taxes have historically been the primary revenue source for local governments. However, property tax revenue goes into general fund operations, and is not typically available for road improvements or maintenance.

The dependence of local governments on this revenue source is due, in large part, to the fact that property taxes are easy to implement and enforce. Property taxes are based on real property (i.e., land and buildings) which has a predictable value and appreciation to base taxes upon. This is as opposed to income or sales taxes, which can fluctuate with economic trends or unforeseen events.

Property taxes can be levied through: 1) tax base levies, 2) serial levies, and 3) bond levies. The most common method uses tax base levies, which do not expire and are allowed to increase by 6 percent per annum. Serial levies are limited by the amounts and times they can be imposed. Bond levies are for specific projects and are limited by time based on the debt load of the local government or the project.

The historic dependence on property taxes is changing with the passage of Ballot Measure 5 in the early 1990s. Ballot Measure 5 limits the property tax rate for purposes other than payment of certain voter-approved general obligation indebtedness. Under full implementation, the tax rate for all local taxing authorities is limited to \$15 per \$1,000 of assessed valuation. As a group, all non-school taxing authorities are limited to \$10 per \$1,000 of assessed valuation. All tax base, serial, and special levies are subject to the tax rate limitation. Ballot Measure 5 requires that all non-school taxing districts' property tax rate be reduced if together they exceed \$10 per \$1,000 per assessed valuation by the county. If the non-debt tax rate exceeds the constitutional limit of \$10 per \$1,000 of assessed valuation, then all of the taxing districts' tax rates are reduced on a proportional basis. The proportional reduction in the tax rate is commonly referred to as compression of the tax rate.

Measure 47, an initiative petition, was passed by Oregon voters in November 1996. It is a constitutional amendment that reduces and limits property taxes and limits local revenues and replacement fees. The measure limits 1997-98 property taxes to the lesser of the 1995-96 tax minus 10 percent, or the 1994-95 tax. It limits future annual property tax increases to 3 percent, with exceptions. Local governments' lost revenue may be replaced only with state income tax, unless voters approve replacement fees or charges. Tax levy approvals in certain elections require 50 percent voter participation.

The state legislature created Measure 50, which retains the tax relief of Measure 47 but clarifies some legal issues. This revised tax measure was approved by voters in May 1997.

The League of Oregon Cities (LOC) estimated that direct revenue losses to local governments, including school districts, will total \$467 million in fiscal year 1998, \$553 million in 1999, and increase thereafter. The actual revenue losses to local governments will depend on actions of the Oregon Legislature. LOC also estimates that the state will have revenue gains of \$23 million in 1998, \$27 million in 1999, and increase thereafter because of increased personal and corporate tax receipts due to lower property tax deduction.

Measure 50 adds another layer of restrictions to those which govern the adoption of tax bases and levies outside the tax base, as well as Measure 5's tax rate limits for schools and non-schools and tax rate exceptions for voter approved debt. Each new levy and the imposition of a property tax must be tested against a longer series of criteria before the collectible tax amount on a parcel of property can be determined.

### **System Development Charges**

System Development Charges (SDCs) are becoming increasingly popular in funding public works infrastructure needed for new local development. Generally, the objective of systems development charges is to allocate portions of the costs associated with capital improvements upon the developments, which increase demand on transportation, sewer or other infrastructure systems.

Local governments have the legal authority to charge property owners and/or developers fees for improving the local public works infrastructure based on projected demand resulting from their development. The charges are most often targeted towards improving community water, sewer, or transportation systems. Cities and counties must have specific infrastructure plans in place that comply with state guidelines in order to collect SDCs.

SDCs are collected when new building permits are issued. Transportation SDCs are based on trip generation of the proposed development. Residential calculations would be based on the assumption that a typical household will generate a given number of vehicle trips per day. Nonresidential use calculations are based on employee ratios for the type of business or industrial uses. The SDC revenues would help fund the construction of transportation facilities necessitated by new development.

#### State Highway Fund

Gas tax revenues received from the state of Oregon are used by all counties and cities to fund roads, and road construction and maintenance. In Oregon, the state collects gas taxes, vehicle registration fees, overweight/overheight fines and weight/mile taxes and returns a portion of the revenues to cities and counties through an allocation formula. Like other Oregon cities, the city of Weston uses its state gas tax allocation to fund street construction and maintenance.

#### **Local Gas Taxes**

The Oregon Constitution permits counties and incorporated cities to levy additional local gas taxes with the stipulation that the moneys generated from the taxes will be dedicated to road-related improvements and maintenance within the jurisdiction. At present, only a few local governments (including the cities of Woodburn and The Dalles and Multnomah and Washington counties) levy a local gas tax. The city of Weston may consider raising its local gas tax as a way to generate additional road improvement funds. However, with relatively few jurisdictions exercising this tax, an increase in the cost differential between gas purchased in Weston and gas purchased in neighboring communities may encourage drivers to seek less expensive fuel elsewhere. Any action will need to be supported by careful analysis to minimize the unintended consequences of such an action.

#### **Vehicle Registration Fees**

The Oregon vehicle registration fee is allocated to the state, counties and cities for road funding. Oregon counties are granted authority to impose a vehicle registration fee covering the entire county. The Oregon Revised Statutes would allow Umatilla County to impose a biannual registration fee for all passenger cars licensed within the county. Although both counties and special districts have this legal authority, vehicle registration fees have not been imposed by local jurisdictions. In order for a local vehicle registration fee program to be viable in Umatilla County, all the incorporated cities and the county would need to formulate an agreement which would detail how the fees would be spent on future road construction and maintenance.

#### **Local Improvement Districts**

The Oregon Revised Statutes allow local governments to form Local Improvement Districts (LIDs) to construct public improvements. LIDs are most often used by cities to construct localized projects such as streets,

sidewalks or bikeways. The statutes allow formation of a district by either the city government or property owners. Cities that use LIDs are required to have a local LID ordinance that provides a process for district formation and payback provisions. Through the LID process, the cost of local improvements is generally spread out among a group of property owners within a specified area. The cost can be allocated based on property frontage or other methods such as traffic trip generation. The types of allocation methods are only limited by the Local Improvement Ordinance. The cost of LID participation is considered an assessment against the property which is a lien equivalent to a tax lien. Individual property owners typically have the option of paying the assessment in cash or applying for assessment financing through the City. Since the passage of Ballot Measure 5, cities have most often funded local improvement districts through the sale of special assessment bonds.

#### **GRANTS AND LOANS**

There are a variety of grant and loan programs available, most with specific requirements relating to economic development or specific transportation issues, rather than for the general construction of new streets. Many programs require a match from the local jurisdiction as a condition of approval. Because grant and loan programs are subject to change and statewide competition, they should not be considered a secure long-term funding source. Most of the programs available for transportation projects are funded and administered through ODOT and/or the Oregon Economic Development Department (OEDD). Some programs that may be appropriate for the city of Weston are described below. The primary contact for information on the following programs is ODOT Region 5, which can be reached at (541) 963-3177.

#### **Bike-Pedestrian Grants**

By law (ORS 366.514), all road, street or highway construction or reconstruction projects must include facilities for pedestrians and bicyclists, with some exceptions. ODOT's Bike and Pedestrian Program administers two programs to assist in the development of walking and bicycling improvements: local grants, and Small-Scale Urban Projects. Cities and counties with projects on local streets are eligible for local grant funds. An 80 percent state/20 percent local match ratio is required. Eligible projects include curb extensions, pedestrian crossings and intersection improvements, shoulder widening and restriping for bike lanes. Projects on urban state highways with little or no right of way taking and few environmental impacts are eligible for Small-Scale Urban Project Funds. Both programs are limited to projects costing up to \$100,000. Projects that cost more than \$100,000, require the acquisition of ROW, or have environmental impacts should be submitted to ODOT for inclusion in the STIP.

#### **Access Management**

The Access Management Program sets aside approximately \$500,000 a year to address access management issues. One primary component of this program is an evaluation of existing approach roads to state highways. These funds are not committed to specific projects, and priorities and projects are established by an evaluation process.

#### **Enhancement Program**

This federally funded program earmarks \$8 million annually for projects in Oregon. Projects must demonstrate a link to the intermodal transportation system, compatibility with approved plans, and local financial support.

A 10.27 percent local match is required for eligibility. Each proposed project is evaluated against all other proposed projects in its region. Within the five Oregon regions, the funds are distributed on a formula based on population, vehicle miles traveled, number of vehicles registered and other transportation-related criteria. The solicitation for applications was mailed to cities and counties the last week of October 1998. Local jurisdictions have until January 1999 to complete and file their applications for funding available during the 2000-2003 fiscal years that begin October 1999.

#### Highway Bridge Rehabilitation or Replacement Program

The Highway Bridge Rehabilitation or Replacement Program (HBRR) provides federal funding for the replacement and rehabilitation of bridges of all functional classifications. A portion of the HBRR funding is allocated for the improvement of bridges under local jurisdiction. A quantitative ranking system is applied to the proposed projects based on sufficiency rating, cost factor, and load capacity. They are ranked against other projects statewide, and require state and local matches of 10 percent each. It includes the Local Bridge Inspection Program and the Bridge Load Rating Program.

#### **Transportation Safety Grant Program**

Managed by ODOT's Transportation Safety Section (TSS), this program's objective is to reduce the number of transportation-related accidents and fatalities by coordination a number of statewide programs. These funds are intended to be used as seed money, funding a program for three years. Eligible programs include programs in impaired driving, occupant protection, youth, pedestrian, speed, enforcement, bicycle and motorcycle safety. Every year, TSS produces a Highway Safety Plan that identifies the major safety programs, suggests countermeasures to existing safety problems, and lists successful projects selected for funding, rather than granting funds through an application process.

#### Federal Transit Administration (FTA) Section 5311-Non-urbanized Area Formula Program

Section 5311 is a federally sponsored program for general public transit services in small urban and rural areas. It supports both capital and operation needs. The ODOT Public Transit Division distributes these funds. In FY00, the cities of Pendleton and Milton-Freewater received these funds to support transportation programs for the general public. The city of Weston would be eligible for these funds if it implemented intercity service or intracity services open to the general public. The recipient of these funds must provide matching funds of up to 50 percent for operating uses and up to 20 percent for capital expenses.

Section 5311(f) – Part of 5311 funds is allocated to intercity services. Intercity transit services connect communities to rail, bus and air hubs. These funds can be used for both capital and operating expenses. Local revenues must match these funds. Match requirements are the same as those for 5311 funds.

#### Surface Transportation Program (STP) Funds

TEA-21, the Federal Transportation Efficiency Act for the 21<sup>st</sup> Century, that funds programs for highways and transit, permits surface transportation program funding flexibility between modes. This gives the state more latitude in selecting the modal alternatives that would best address local congestion problems. STP funds are generally limited to capital projects with a few exceptions. In non-urbanized areas ODOT has the

responsibility of allocating these funds. In Weston, ODOT Region 5 makes funding decisions with public input.

#### Department of Labor Welfare-to-Work Program

The US Department of Labor provides grants to communities to give transitional assistance to move welfare recipients into unsubsidized employment. One of the areas applicants are encouraged to consider is the development of responsive transportation systems to move people to work or to career training. These grants must serve at least 100 welfare recipients. The Department of Labor expects the grants to range from one million to five million dollars over a period of three years. Applications must be a coordinated effort between transportation providers and Oregon Adult and Family Services. The funding can be used for capital and operating expenses and will cover up to 50 percent of the cost of a program.

ODOT has submitted a grant application for funding for Oregon programs. ODOT identified the Bend/Redmond area as the first demonstration program. Other areas of the state may be eligible after that. To be eligible for this funding, it is essential that communities bring together local ODOT staff, transit providers and AFS staff to begin the coordination process.

#### FTA Section 5310 Discretionary Grants

This program funds vehicles and other capital projects for programs that serve elderly and disabled people. In FY99 the city of Pendleton received \$36,000 to purchase a new vehicle.

#### **Special Transportation Fund**

The Special Transportation Fund (STF) awards funds to maintain, develop, and improve transportation services for people with disabilities and people over 60 years of age (Weston is already using this fund to finance its Dial-A-Ride program). Financed by a two-cent tax on each pack of cigarettes sold in the state, the annual distribution is approximately \$5 million. Three-quarters of these funds are distributed on a per-capita formula to mass transit districts, transportation districts, where such districts do not exist, and counties. The remaining funds are distributed on a discretionary basis.

#### **County Allotment Program**

The County Allotment Program distributes funds to counties on an annual basis; the funds distributed in this program are in addition to the regular disbursement of state highway fund resources. The program determines the amount of total revenue available for roads in each county and the number of road miles (but not lane miles) of collectors and arterials under each county's jurisdiction. Using these two benchmarks, a "resource-perequivalent" ratio is calculated for each county. Resources from the \$750,000 program are provided to the county with the lowest resource-per-equivalent road-mile ratio until they are funded to the level of the next-lowest county. The next-lowest county is then provided resources until they are funded to the level of the third-lowest county, and so on, until the fund is exhausted.

#### **Immediate Opportunity Grant Program**

The Oregon Economic Development Department (OEDD) and ODOT collaborate to administer a grant program designed to assist local and regional economic development efforts. The program is funded to a level of approximately \$7 million per year through state gas tax revenues. The following are primary factors in determining eligible projects:

- Improvement of public roads.
- Inclusion of an economic development-related project of regional significance.
- Creation or retention of primary employment.
- Ability to provide local funds (50/50) to match grant.
- Improvement to the quality of the community.

The maximum amount of any grant under the program is \$500,000. Local governments that have received grants under the program include Washington County, Multnomah County, Douglas County, the city of Hermiston, port of St. Helens, and the city of Newport.

#### **Oregon Special Public Works Fund**

The Special Public Works Fund (SPWF) program was created by the 1995 State Legislature as one of several programs for the distribution of funds from the Oregon Lottery to economic development projects in communities throughout the state. The program provides grant and loan assistance to eligible municipalities primarily for the construction of public infrastructure which support commercial and industrial development that result in permanent job creation or job retention. To be awarded funds, each infrastructure project must support businesses wishing to locate, expand, or remain in Oregon. SPWF awards can be used for improvement, expansion, and new construction of public sewage treatment plants, water supply works, public roads, and transportation facilities.

While SPWF program assistance is provided in the form of both loans and grants, the program emphasizes loans in order to assure that funds will return to the state over time for reinvestment in local economic development infrastructure projects. Jurisdictions that have received SPWF funding for projects that include some type of transportation-related improvement include the cities of Baker City, Bend, Cornelius, Forest Grove, Madras, Portland, Redmond, Reedsport, Toledo, Wilsonville, Woodburn, and Douglas County.

#### **Oregon Transportation Infrastructure Bank**

The Oregon Transportation Infrastructure Bank (OTIB) program is a revolving loan fund administered by ODOT to provide loans to local jurisdictions (including cities, counties, special districts, transit districts, tribal governments, ports, and state agencies). Eligible projects include construction of federal-aid highways, bridges, roads, streets, bikeways, pedestrian accesses, and right of way costs. Capital outlays such as buses, light-rail cars and lines, maintenance years and passenger facilities are also eligible.

#### **ODOT FUNDING OPTIONS**

The state of Oregon provides funding for all highway related transportation projects through the Statewide Transportation Improvement Program (STIP) administered by the Oregon Department of Transportation. The STIP outlines the schedule for ODOT projects throughout the state. The STIP, which identifies projects for a three-year funding cycle, is updated on an annual basis. In developing this funding program, ODOT must verify that the identified projects comply with the Oregon Transportation Plan (OTP), ODOT Modal Plans, Corridor Plans, local comprehensive plans, and federal planning requirements. The STIP must fulfill federal planning requirements for a staged, multi-year, statewide, intermodal program of transportation projects. Specific transportation projects are prioritized based on a review of the TEA-21 planning requirements and the different state plans. ODOT consults with local jurisdictions before highway related projects are added to the STIP.

The highway-related projects identified in Weston's TSP will be considered for future inclusion on the STIP. The timing of including specific projects will be determined by ODOT based on an analysis of all the project needs within Region 5. The city of Weston, Umatilla County, and ODOT will need to communicate on an annual basis to review the status of the STIP and the prioritization of individual projects within the project area. Ongoing communication will be important for the city, county, and ODOT to coordinate the construction of both local and state transportation projects.

ODOT also has the option of making some highway improvements as part of their ongoing highway maintenance program. Types of road construction projects that can be included within the ODOT maintenance programs are intersection realignments, additional turn lanes, and striping for bike lanes. Maintenance related construction projects are usually done by ODOT field crews using state equipment. The maintenance crews do not have the staff or specialized road equipment needed for large construction projects.

An ODOT funding technique that will likely have future application to Weston's TSP is the use of state and federal transportation dollars for off-system improvements. Until the passage and implementation of ISTEA, state and federal funds were limited to transportation improvements within highway corridors. ODOT now has the authority and ability to fund transportation projects that are located outside the boundaries of the highway corridors. The criteria for determining what off-system improvements can be funded has not yet been clearly established. It is expected that this new funding technique will be used to finance local system improvements that reduce traffic on state highways or reduce the number of access points for future development along state highways.

#### FINANCING TOOLS

In addition to funding options, the recommended improvements listed in this plan may benefit from a variety of financing options. Although often used interchangeably, the words financing and funding are not the same. Funding is the actual generation of revenue by which a jurisdiction pays for improvements, some examples include the sources discussed above: property taxes, SDCs, fuel taxes, vehicle registration fees, LIDs, and various grant programs. In contrast, financing refers to the collecting of funds through debt obligations.

There are a number of debt financing options available to the city of Weston. The use of debt to finance capital improvements must be balanced with the ability to make future debt service payments and to deal with the impact on its overall debt capacity and underlying credit rating. Again, debt financing should be viewed not as a source of funding, but as a time shifting of funds. The use of debt to finance these transportation-system improvements is appropriate since the benefits from the transportation improvements

will extend over the period of years. If such improvements were to be tax financed immediately, a large short-term increase in the tax rate would be required. By utilizing debt financing, local governments are essentially spreading the burden of the costs of these improvements to more of the people who are likely to benefit from the improvements and lowering immediate payments.

#### **General Obligation Bonds**

General obligation (GO) bonds are voter-approved bond issues which represent the least expensive borrowing mechanism available to municipalities. GO bonds are typically supported by a separate property tax levy specifically approved for the purposes of retiring debt. The levy does not terminate until all debt is paid off. The property tax levy is distributed equally throughout the taxing jurisdiction according to assessed value of property. GO debts typically used to make public improvement projects that will benefit the entire community.

State statutes require that the GO indebtedness of a city not exceed 3 percent of the real market value of all taxable property in the city. Since GO bonds would be issued subsequent to voter approval, they would not be restricted to the limitations set forth in Ballot Measures 5, 47, and 50. Although new bonds must be specifically voter approved, Measure 47 and 50 provisions are not applicable to outstanding bonds, unissued voter-approved bonds, or refunding bonds.

#### **Limited Tax Bonds**

Limited tax general obligation (LTGO) bonds are similar to GO bonds in that they represent an obligation of the municipality. However, a municipality's obligation is limited to its current revenue sources and is not secured by the public entity's ability to raise taxes. As a result, LTGO bonds do not require voter approval. However, since the LTGO bonds are not secured by the full taxing power of the issuer, the limited tax bond represents a higher borrowing cost than GO bonds. The municipality must pledge to levy the maximum amount under constitutional and statutory limits, but not the unlimited taxing authority pledged with GO bonds. Because LTGO bonds are not voter approved, they are subject to the limitations of Ballot Measures 5, 47, and 50.

#### **Bancroft Bonds**

Under Oregon Statute, municipalities are allowed to issue Bancroft bonds which pledge the City's full faith and credit to assessment bonds. As a result, the bonds become general obligations of the City but are paid with assessments. Historically, these bonds provided a city with the ability to pledge its full faith and credit in order to obtain a lower borrowing cost without requiring voter approval. However, since Bancroft bonds are not voter approved, taxes levied to pay debt service on them are subject to the limitations of Ballot Measures 5, 47, and 50. As a result, since 1991, Bancroft bonds have not been used by municipalities who were required to compress their tax rates.

#### **FUNDING REQUIREMENTS**

Weston's TSP identifies both capital improvements and strategic efforts recommended during the next 20 years to address safety and access problems and to expand the transportation system to support a growing population and economy. The TSP identifies 16 projects estimated to cost over \$540,000 over the 20-year

planning horizon. The bulk of these projects are street paving projects, identified as part of the Roadway Maintenance and Improvement Program, which will be funded as City resources become available. Estimated costs by project are shown in Table 8-6.

TABLE 8-6
RECOMMENDED PROJECTS AND FINANCIAL RESPONSIBILITY

Project.			Cos	ts (\$ x 1,	000)	
No.	Location/Description	City	County	State	Private	Total
3.	Key Rd. (OR 11 to Water St.)		\$300.00			\$300.00
2A	Washington St. (Bannister Rd. to Pomeroy St.)	\$34.36				\$34.36
2B	Main St. (Water St. to Franklin St.)	\$10.38				\$10.38
2C	South Broad St. (Wallace St. to 1,112 ft south)	\$16.61				\$16.61
2D	Franklin St. (Wallace St. to High St.)	\$8.66				\$8.66
2E	Franklin St. (High St. to Main St.)	\$6.42				\$6.42
2F	Franklin St. (Main St. to 2nd Bridge)	\$20.75				\$20.75
2G	Franklin St. (2nd Bridge to 2nd St.)	\$13.88				\$13.88
2H	Franklin St. (2nd St. to Water St.)	\$6.57				\$6.57
2I	Water St. (Depot St. to Pomeroy St.)	\$50.80				\$50.80
2J	Water St. (Pomeroy St. to Main St.)	\$10.13				\$10.13
2K	Water St. (Main St. to High St.)	\$7.50				\$7.50
2L	Water St. (High St. to Wallace St.)	\$9.68				\$9.68
2M	Water St. (Wallace St. to end of curb)	\$10.46				\$10.46
2N	Water St. (End of curb to Washington St.)	\$37.80				\$37.80
20	First St. (Water St. to Franklin St.)	\$3.98				\$3.98
2P	Arman St. (Main St. to Pomeroy St.)	\$4.15				\$4.15
2Q	West Mill St. (Water St. to Washington St.)	\$4.33				\$4.33
Total		\$256.46.	\$300.00	\$	0 \$0	\$556.46

Note: TBD — To be determined at a later time.

Based on current revenue sources for the city of Weston as estimated in Table 8-5 and the improvements identified in this Transportation System Plan, the City is expected to experience a budget deficit, as shown in Table 8-7.

TABLE 8-7
ESTIMATED CAPITAL FUNDING BALANCE

	Amount
Capital Available from Existing Revenue Sources	\$22,500
Capital Needed to Fund Projects Identified as City-Funded Projects	\$256.46
Surplus (Deficit)	(\$233.96)

This transportation system plan identifies 16 projects recommended over the next 20 years. Based on existing revenue sources and the estimated costs to implement the improvements, the city of Weston is expected to experience a budget shortfall of over \$200,000 over the 20-year planning horizon. The City will need to work with Umatilla County and ODOT to explore alternative funding sources. As noted earlier, the bulk of the projects (all of the projects requiring city funding) are street paving projects identified as part of the Roadway Maintenance and Improvement Program. This program identified paving needs that will be funded and implemented as city resources become available. These projects may be eligible for enhancement or other alternative funding, as described earlier in this chapter. However, as part of the City's regular maintenance efforts, such projects are not typically considered eligible for specific grant funds.

# APPENDIX A

**Weston Plans** 

#### WESTON COMPREHENSIVE PLAN

The Weston Comprehensive Plan was adopted in 1978 and amended in 1979. The Comprehensive Plan was prepared by the Comprehensive Plan Work Group comprised of planners, citizens, and officials.

According to the Plan, the small town and historic character of Weston is valued by citizens as one of the city's primary assets. The City would like to retain the ambiance of Weston while experiencing moderate population and employment growth.

Some of the most salient concerns of the citizenry involve the transportation system. Results of a survey taken in 1978 showed that much of the community was disturbed by the poor condition of streets and/or curbs and gutters in much of the town. The City recognizes the maintenance of county and state roads and the railroad as essential to the economic health of the community. The Plan states that the railroad is an especially vital link for Weston, because it makes the city attractive to industry. Easy access to OR 11 and Highway 204 north of the town is also critical. Citizens see a need for public transportation linking Weston with other communities, especially for seniors.

The Comprehensive Plan lists two goals which impact the transportation system directly, economic development and transportation.

#### Goal 11: Transportation

To provide and encourage a safe, convenient and economic transportation system.

#### **Objectives**

- 1. The development of good transportation routes (vehicular, pedestrian, bicycle, etc.) between residential areas and major activity centers will be encouraged.
- 2. The development of alternative means of transportation to the private automobile will be encouraged.

#### Applicable Policies

- 1. Continued maintenance and paving of city streets to be provided, especially unpaved roads.
- 2. The continued availability of rail transportation routes will be encouraged.
- 3. Encourage the provision of transportation alternatives for elderly and handicapped residents.

#### Goal 8: Economic Development

#### Applicable Policies

1. To continue efforts to maintain a central commercial area with a concentration retail and service businesses, professional offices, financial institutions and public services in order to accommodate business and shopping needs, minimize conflicts with residential and industrial uses, provide economic stability, reduce costs to the public, and maximize pedestrian movements.

Characteristics of the town which influence the transportation system plan are presented in the Plan. Relevant findings include the following:

- The City is built along the canyon of Pine Creek. The downtown area and half of the residential area are built on the valley floor, while the industrial plants and remaining residences are located on the hillsides sloping down to the creek.
- Approximately two thirds of the area within the city limits is developed for urban use the remaining third is primarily wheat fields.
- Downtown is the sole commercial district. It has an historic character with one and two-story brick buildings with storefronts built out to the sidewalk. Community facilities are concentrated downtown.
- Major industry is provided by wheat/pea rotating cropland. Two food processing facilities are the primary employers. These plants generate a fairly strong tax base for the city.
- Creating a parkway along Pine Creek with bikepath and trail has been discussed.
- County and state roads and the Union Pacific Railroad provide transportation access to the community and their continued availability and maintenance is essential. The railroad is an especially vital link as it makes the community more attractive for industries.
- In many parts of town, the streets and/or curbs and gutters are in poor condition, a situation that disturbs much of the community. Extensive repairs and construction is required to correct this situation.
- Weston is not located astride the main highways of the area, but the city is easily accessed by the Oregon-Washington Highway 11 and Elgin Highway 204 at the north end of town.
- There is a need for public transit between Weston and nearby communities, especially to help older residents reach destinations outside the city.

#### City of Weston Growth Report

The Weston Growth Report was last amended in 1979, and much of the data may be outdated. However, the population has only grown by 40 people (650 to 690) between 1979 and 1996, so much of the city may not have changed.

The buildable lands inventoried in 1979, were broken into three categories-- residential areas, commercial areas, and industrial areas. The vacant, buildable, industrial lands comprised 53.7 acres, all in the northern industrial district along the railroad right-of-way. The buildable commercial lands totaled 12.3 acres, all within the downtown area. These lands were comprised of 2.3 acres of vacant land and 10 acres of redevelopable residential land. Buildable residential lands were comprised of individual lots scattered throughout the city and regions located on the edges of UGB. The Growth Report estimated that 171.9 acres of buildable residential land and 108 vacant building sites could provide for 505 new dwellings. It estimated that the City could accommodate a population of 1,900 people.

#### **Zoning Ordinance**

The Weston Zoning Ordinance was adopted in 1979.

The purported intent and purpose of Zoning Ordinance is as follows:

to promote a good quality of development within the community and provide an opportunity for citizens and City officials to review and comment on development plans. By governing the location of land uses and setting standards to guide the sitting of structures and provision of improvements on lots, the Zoning Ordinance is an attempt to insure that new development will enhance the community, fit into the landscape and neighborhood, and provide good living, working, and business environments.

The development of zones and standards for this Ordinance was governed by the City policies stated in the Comprehensive Plan for the purpose of promoting the public health, safety, and welfare, encouraging the appropriate use of property, stabilizing and protecting property values, providing adequate light and air, preventing overcrowding, avoiding conflicts between adjacent land uses, and balancing the rights of the individual with those of their neighbors.

The Ordinance contains four sections— Introduction, Use Zones, Supplementary Development Standards, and Administration. The only sections that apply directly to the transportation, are the sections on off-street parking and miscellaneous standards which requires access to all newly partitioned lots.

# APPENDIX B

1997 Major Street Inventory

According to the 1990 Census, 16.5 percent of the 57,046 persons living in Umatilla County (for whom poverty status is determined) were below poverty level. Poverty statistics are based on a threshold of nutritionally-adequate food plans by the Department of Agriculture for the specific size of the family unit in question. The distribution of the population below poverty level shows that a larger proportion of younger persons than older populations are affected by this indicator, as shown in the following table.

Poverty Status Umatilla County--1990 Census

	Be	low Pove	erty Level		Percent of
			<b>Total Below</b>	Total*	<b>Total Population</b>
	Male	Female	<b>Poverty Level</b>	Population	Below Poverty
11 and under	1,408	1,175	2,583	10,929	23.6%
12 to 17	481	517	998	5,223	19.1%
18 and over	2,300	3,538	5,838	40,894	14.3%
Total	4,189	5,230	9,419	57,046	16.5%

<sup>\*</sup> For whom poverty status is determined.

Source: U.S. Census Bureau.

The Census Bureau reports that 3.3 percent of the population 16 and older had a mobility limitation in 1990. Persons were identified as having a mobility limitation if they had a health condition (physical and/or mental) that lasted for six or more months and which made it difficult to go outside the home alone. A temporary health problem, such as a broken bone that was expected to heal normally, was not considered a health condition.

Using the proportion of the population with mobility limitations and below the poverty level in 1990, DEA estimated the number of people with specific transportation needs in 1996. The following table shows that an estimated 34.8 percent of the population may have specific transportation needs. (There is likely to be some overlap between the 3.3 percent of the population with mobility limitations and the 14.5 percent below the poverty level; therefore, the sum of the figures may overstate the proportion of the population with specific transportation needs.)

Estimated Population with Specific Transportation Needs 1996, Umatilla County

	Percent of	Estimated
	<b>Total Population</b>	Number
Persons between the ages of 5 and 15	17.0%	11,115
Persons 16 and older under Poverty Level	14.5%	9,480
Persons 16 and older with Mobility Limitation	3.3%	2,130
Total Specific Transportation Needs Population	34.8%	22,725

<sup>&</sup>lt;sup>1</sup> DEA used the Census Bureau's age disaggregation to estimate that 10.7 percent of the population over the age of 16 was under the poverty level in 1990.

Planning for the overall transportation system will need to consider the special needs of these populations.

#### **HISTORICAL GROWTH**

The population of Umatilla County has grown since the 1970s, with significantly slower growth in the 1980s, reflecting a general slowdown in the state's economy. Helix, Pilot Rock, and Weston actually experienced a net population loss between 1970 and 1990. The following table shows the population trend for Adams, Athena, Echo, Helix, Pilot Rock, Stanfield, Ukiah, and Weston, and Umatilla County as a whole.

**Umatilla County Historical Population Trend** 

							1970-199	0 Change
	1970	1980	1985	1990	1995	1997	Number	CAARG*
Umatilla County	44,923	58,855	60,000	59,249	65,200	65,500	14,326	1.4%
Adams	219	240	245	223	260	265	4	0.1%
Athena	872	965	955	997	1,080	1,120	125	0.7%
Echo	479	624	605	499	530	585	20	0.2%
Helix	152	155	155	150	170	190	(2)	(0.1%)
Pilot Rock	1,612	1,630	1,630	1,478	1,560	1,585	(134)	(0.4%)
Stanfield	891	1,568	1,660	1,568	1,700	1,770	677	2.9%
Ukiah	N.A.	249	230	250	270	240	N/A	N/A
Weston	660	719	730	606	655	680	(54)	(0.4%)

<sup>\*</sup> Compound Average Annual Rate of Growth

Ukiah was incorporated in July 1972.

Source: Portland State University Center for Population Research and Census.

The number of people residing in Stanfield nearly doubled between 1970 and 1980. This population growth may have been fueled by some significant housing developments and the location of several food processing plants in Stanfield during this time.

#### POPULATION AND EMPLOYMENT FORECASTS

Umatilla County is expected to experience population gains for the next 20 years. Like much of rural Oregon, the economy of Umatilla County remains largely seasonal, with nearly one-quarter of all employment agriculture-based. Therefore, population increases are difficult to predict, and are not likely to be as stable as the forecasts appear to imply.

The State Office of Economic Analysis prepared long-term population projections by county. Based on these projections and the methodology described above, preliminary population forecasts for the jurisdictions of Adams, Athena, Echo, Helix, Pilot Rock, Stanfield, Ukiah, and Weston were developed in five-year increments.

An ad-hoc HUES (Hermiston, Umatilla, Echo, and Stanfield) Impact Planning Group was formed in early 1997 to lead cooperative efforts to address growth concerns in western Umatilla County arising from four major employers locating or expanding in the region. The HUES Growth Impact Study, conducted by the Benkendorf Associates Corporation, Hobson Johnson & Associates, and Martin Davis Consulting, quantifies the impact of the construction and operation of these four facilities. Employment impacts are translated into household and population impacts, and disaggregated across the four HUES communities, Pendleton, and rural Umatilla County.

Of these four employers (the Two Rivers Correctional Institution, the Umatilla Chemical Agent Disposal Facility, the Union Pacific Railroad Hinkle Locomotive Shop, and the Wal-Mart Distribution Center and Truck Maintenance Facility), only one (the Wal-Mart Distribution Center) had been announced and incorporated in the long-range population and employment forecast prepared by the Office of Economic Analysis. Because the Umatilla County site was selected as the location for the Wal-Mart Distribution Center in 1994, its impacts were already incorporated in the Office of Economic Analysis long-term population and employment forecast. Applying the HUES methodology, DEA, Inc. subtracted out the impact of the Wal-Mart Distribution Center, in order to identify the population impacts resulting from the three "big four" employers otherwise not accounted for in the OEA forecast.

**HUES Population Impacts by Community** 

HUES Study "Scenario One" Less Wal-Mart Distribution Center

	<b>Base Population</b>	Popul	ation Impact	
	1996	2000	2005	2007
Hermiston	11,050	1,681	2,354	1,412
Umatilla	3,310	503	705	423
Echo*	530	81	113	68
Stanfield	1,755	267	374	224
HUES communities subtotal		2,531	3,545	2,128
Pendleton		223	313	188
Rural Umatilla County		223	313	188
Total Population Impact		2,978	4,171	2,503

The HUES study estimates Echo's base population using utility hook-up data and a 2.5 average household size. However, this methodology yields a base-year estimate inconsistent with the "official" state estimate. As required by state policy, the Transportation System Plan uses the official state estimate as the base population. As appropriate, the TSP uses utility hook-up data as the base number of households.

Source: HUES Growth Impact Study and David Evans and Associates, Inc.

These estimated impacts were then applied to the original population forecast for Echo and Stanfield by the mathematical model. The resulting population forecast is shown in five-year increments in the table below.

**Umatilla County Population Forecast** 

	ĺ						1995-2000	1995-2017
	1995	2000	2005	2010	2015	2017	CAARG	CAARG
Umatilla County	65,200	72,800	77,000	78,300	79,500	80,073	2.2%	0.9%
Adams	260	270	280	290	300	310	0.7%	0.8%
Athena	1,080	1,160	1,210	1,270	1,330	1,360	1.4%	1.1%
Echo	530	610	640	650	660	660	2.9%	1.0%
Helix	170	190	210	220	230	230	2.7%	1.4%
Pilot Rock	1,560	1,580	1,600	1,610	1,640	1,650	0.3%	0.3%
Stanfield	1,700	2,020	2,130	2,290	2,430	2,490	3.5%	1.8%
Ukiah	270	290	310	320	340	340	1.6%	1.1%
Weston	655	690	700	710	720	730	1.0%	0.5%

Source: 1995 estimates developed by Portland State University Center for Population Research and Census; long-term County forecasts developed by State of Oregon Office of Economic Analysis; and Jurisdiction forecasts and intermediate County forecasts developed by David Evans and Associates, Inc.

Overall, Umatilla County is expected to experience healthy rates of population growth, averaging nearly one percent annually over the planning horizon. As shown in the table, the western portion of Umatilla County is expected to grow faster than the rest of Umatilla County, fueled by the four major employers. Of all jurisdictions included in this analysis, Stanfield is expected to grow the fastest, at an annual average of 3.5 percent at the beginning of the planning horizon, slowing somewhat, but still achieving a very rapid average annual rate of 1.8 percent for the 20-year planning period.

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Separant Lostrion  Level of Line   Sined Street   Most of Lines   Most of Line					=	leston Tran	sportation Sys	tem Plan							
Attention Lead of the part of															
Arterials   Level of Limit   Minta   Travel   Lanes   Wateh   Lanes   Wateh   Lanes   Wateh   Lanes   Wateh   Lanes   Wateh   Lanes   Match   Lanes   Lanes   Match   Lanes				Speed	Street	No. of	Passing		Shoulders			T.			1997
Arterials			Level of	Limit	Width	Travel	Lanes	Width			On-Street				Рачетет
Arterials   Arte	nadway Segment Location	Jurisdiction	Importance	(mpts)	(feet)	Lanes	(direction)	(feet)	Side	Paving	Parking	Curbs	Sidewalks	Bilteway	Condition*
Hectors (current functionling)	Arterials														
Hectors (current functioning)	to state highways run through the Weston city limi	nits.													
and No. 760 - Banifate Road         County         NA         25         2         No         No         NA	Collectors (current functioning)														
COGRETATION   COUNTRY   NA   25   50   2   No   No   NA   NA   NA   No   No   No	ounty Road No. 750 - Banister Road														
eth City         NA         25         24         2         No         No         NA         Yes         Yes         Both Sides         No           Street to Arman Street         City         NA         25         24         2         No         No         NA         NA         No         NA         NA         No         NA         NA         No         No         NA         NA         No         NA         NA         No         NO         NA         NA         No         NO         NA         NA         NO         NO         NA         NO         NO         NA         NA         NO         NO         NA         NA         NO         NO         NA	West UGB Limits to Gentry	County	NA	22	ć.	7	No	%	NA	NA	δ	No	No	No.	Fair
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eet         City         NA         35         30         2         No         No         NA         East Side         Yes         West Side         No           vy Street to Omeroy Street         City         NA         20         30         2         No         No         NA         NA         East Side         Yes         West Side         No           vy Street to Pomeroy Street         City         NA         20         40         2         No         NA         NA         Rest Side         Yes         West Side         No           ce Street to Mill Street         City         NA         20         30         2         No         NA         Na <td>Broad Street to Arman Street</td> <td>City</td> <td>NA</td> <td>25</td> <td>24</td> <td>2</td> <td>No</td> <td>ž</td> <td>NA</td> <td>NA</td> <td>No</td> <td>No</td> <td>Both Sides</td> <td>No.</td> <td>Fair</td>	Broad Street to Arman Street	City	NA	25	24	2	No	ž	NA	NA	No	No	Both Sides	No.	Fair
Street to Genry Street         City         NA         35         30         2         No         NA         Bast Side         Yes         West Side         No           y Street to Pometoy Street         City         NA         20         30         2         No         NA         Bast Side         Yes         West Side         No           co Street to Wallace Street         City         NA         20         40         2         No         NA         NA         Bast Side         Yes         West Side         No           ce Street to Wall Street         City         NA         20         30         2         No         NA         NA <td>(ater Street</td> <td></td>	(ater Street														
of Street to Pomeroy Street         City         NA         20         30         2         No         NA         NA         East Side         Yes         West Side         No           roy Street to Wallace Street         City         NA         20         40         2         No         NA         NA         Both Sides         Yes         Both/East         No           ce Street to Mill Street         City         NA         20         30         2         No         NA         NA         Both East Side         Yes         Both/East         No           d         A         NA         N	Depot Street to Gentry Street	City	NA	35	30	2	Š	%	NA	NA	East Side	Yes	West Side	No	Fair
Ory Street to Wallace Street         City         NA         20         40         2         No         No         NA         Both Sides         Yes         Both/East         No           oc Street to Mill Street         City         NA         20         30         2         No         No         NA         East Side         Partial         Partial         No           Idea         Street to Mill Street         City         NA         25         22         2         No         No         NA         NA         NA         No         No         No         NA         No	Gentry Street to Pomeroy Street	City	NA	70	30	2	No	%	NA	NA	East Side	Yes	West Side	%	Fair
oc Street to Mill Street         City         NA         20         30         2         No         No         No         No         No         East Side         Partial         No         No           d         Street to Morth UGB Limits         City         NA         25         22         2         No         No <td>Pomeroy Street to Wallace Street</td> <td>City</td> <td>NA</td> <td>70</td> <td>9</td> <td>2</td> <td>No</td> <td>Νο</td> <td>NA</td> <td>NA</td> <td>Both Sides</td> <td>Yes</td> <td>Both/East</td> <td>o<sub>N</sub></td> <td>Poor</td>	Pomeroy Street to Wallace Street	City	NA	70	9	2	No	Νο	NA	NA	Both Sides	Yes	Both/East	o <sub>N</sub>	Poor
ef         Street to North UGB Limits         City         NA         25         22         2         No         NA         NA <t< td=""><td>Wallace Street to Mill Street</td><td>City</td><td>NA</td><td>20</td><td>30</td><td>7</td><td>No</td><td>S.</td><td>NA</td><td>NA</td><td>East Side</td><td>Partial</td><td>Partial</td><td>SN N</td><td>Fair</td></t<>	Wallace Street to Mill Street	City	NA	20	30	7	No	S.	NA	NA	East Side	Partial	Partial	SN N	Fair
Street to North UGB Limits to Depot Street         City         NA         25         22         2         No         No         NA         NA         NA         NA         NO	finn Road														
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	North UGB Limits to Depot Street	County	NA	35	24	2	No	2	YA V	NA A	Ñ	No	No	No	Fair

# APPENDIX C

# Umatilla County Population Discussion

## **Umatilla County Population Discussion**

#### METHODOLOGY AND DATA SOURCES

Population estimates and projections were developed from historical data, official annual estimates, official long-range forecasts, and an impact analysis of four major employers entering or expanding in western Umatilla County. Historical data are compiled as reported by the Census Bureau. Portland State University's Center for Population Research and Census developed annual population estimates for cities and counties for the purpose of allocating certain state tax revenues to cities and counties. The State of Oregon Office of Economic Analysis (OEA) provided long-term (through year 2040) state population forecasts, disaggregated by county, for state planning purposes.

The Office of Economic Analysis used business-cycle trends (as reflected by the Employment Department's employment forecasts) as the primary driver of population and employment for the short term. For the long term, the forecasts shift to a population-driven model, which emphasizes demographics of the resident population, including age and gender of the population, with assumptions regarding life expectancy, fertility rate, and immigration. DEA used a methodology based on OEA's county-distribution methodology in developing population and employment forecasts for each of the cities in Umatilla County. DEA calculated a weighted average growth rate for each jurisdiction (weighting recent growth more heavily than past growth) and combined this average growth rate with the projected county-wide growth rate. This methodology assumes convergence of growth rates because of the physical constraints of any area to sustain growth rates beyond the state or county average for long periods of time. These constraints include availability of land and housing, congestion, and other infrastructure limitations.

These preliminary forecasts were used as a basis for discussion with individuals who have local knowledge and expertise. The projections were then revised based on local input and analysis. One element that had a significant impact on the population analysis was the HUES (Hermiston, Umatilla, Echo, and Stanfield) Growth Impact Study, conducted by the Benkendorf Associates Corporation, Hobson Johnson & Associates, and Martin Davis Consulting, which quantifies the impact of the construction and operation of four major employers.

As required by state policy, this forecast is consistent with the State of Oregon Office of Economic Analysis forecast at the end of the 20-year planning period. Because of the impact of the four large employers, however, the growth of Umatilla County will occur faster in the beginning of the planning horizon, slowing to compensate near the end of the planning period.

These population and employment forecasts were developed to determine future transportation needs. The amount of growth, and where it occurs, will affect traffic and transportation facilities in the study area. This report is not intended to provide a

complete economic forecast or housing analysis, and it should not be used for any purpose other than that for which it was designed.

#### CURRENT POPULATION AND EMPLOYMENT LEVEL

Estimated at 65,500 in 1997, the population of Umatilla County has grown relatively rapidly since the 1990 Census, with an average annual growth rate of over one-and-one-half percent. The following table shows the estimated change in population for Umatilla County and the jurisdictions of Adams, Athena, Echo, Helix, Pilot Rock, Stanfield, Ukiah, and Weston for 1990 and 1996.

# Umatilla County Population Level 1990 and 1996

			1990-1997	Change
	1990	1997	Number	CAARG*
Umatilla County	59,249	65,500	6,251	1.4%
Adams	223	265	42	2.5%
Athena	997	1,120	123	1.7%
Echo	499	585	86	2.3%
Helix	150	190	40	3.4%
Pilot Rock	1,478	1,585	107	1.0%
Stanfield	1,568	1,770	202	1.7%
Ukiah	250	240	-10	-0.6%
Weston	606	680	74	1.6%

<sup>\*</sup> Compound Average Annual Rate of Growth

Source: Portland State University Center for Population Research and Census.

Most of the jurisdictions in Umatilla County have grown at a healthy rate, comparable to the annual growth rate of 1.4 percent for the county overall. The smaller jurisdictions of Adams and Helix have grown at a slightly faster rate, starting from the smaller population bases of 223 (Adams) and 150 (Helix) in 1990.

#### Populations with Specific Transportation Needs

Certain populations have been identified as having more intensive transportation needs than the general population. These populations include people under the legal driving age, those under the poverty level, and those with mobility limitations.

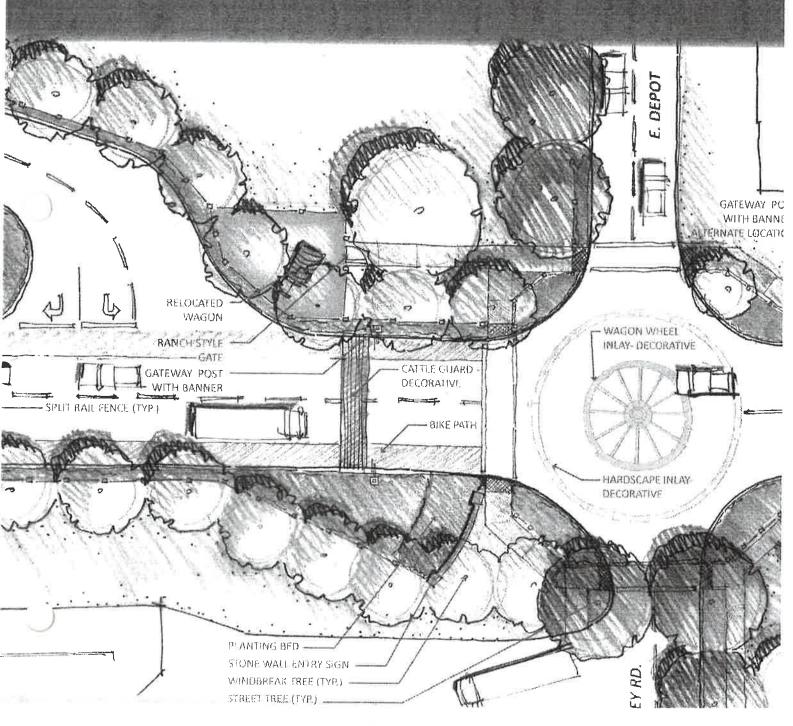
As stated above, Portland State University's Center for Population and Census estimates the Umatilla County's population as 65,500 in 1997. The Center further estimates that 18,623 of these people, or about 28 percent of the population, is under the age of 18 and that 5,505 are under age 5. Because the purpose of this analysis is to determine the number of people with specific transportation needs, DEA used PSU's age disaggregation to estimate that 16,617 people are under 16, the legal driving age in Umatilla County.

# CITY OF WESTON

Transportation
System Plan
Update



Weston, Oregon August 2015



# Weston Transportation System Plan

Weston, Oregon

Prepared for: **City of Weston** 

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August 2015

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This project is partially funded by a grant from the Transportation and Growth Management ("TGM") Program, a joint program of the Oregon Department of Transportation and the Oregon Department of Land Conservation and Development. This TGM grant is financed, in part, by federal Moving Ahead for Progress In the 21<sup>st</sup> Century (MAP-21), local government, and the State of Oregon funds.

The contents of this document do not necessarily reflect views or policies of the State of Oregon.

# **LIST OF FIGURES**

Figure 1-1 Planning Process and Public Involvement	xi
Figure 1-2: Project Location Map	xiii
Figure 1-3 Local Street Standards	xiv
Figure 3-1 Weston's Multimodal Transportation Projects	9
Figure 3-2 Project #1 - Water Street Improvements – North Section	11
Figure 3-3 Project #1 - Water Street Improvements – Central Section	12
Figure 3-4 Project #1 - Water Street Improvements – Southern Section	13
Figure 3-5 Project #2 - Water Street/Main Street Intersection Plaza Enhancement	14
Figure 3-6 Project #3 - Northern Gateway Concept	15
Figure 3-7 Project #4 - Southern Gateway Concept	16
Figure 3-8 Roadway Functional Classification	18
Figure 3-9 Water Street Cross-Section Standard	19
Figure 3-10 Collector and Alley Street Standards	20
Figure 3-11 Local Street Standards	21
Figure 3-12 Pedestrian System and Planned Projects	23
Figure 3-13 Project #5 - City Park Pine Creek Interaction Site Concept	25
Figure 3-14 Project #6 - Downtown Pine Creek Interaction Site Concept	26
Figure 3-15 Freight Routes and Planned Projects	27

#### **PREFACE**

The Weston Transportation System Plan (TSP) was guided by the Project Management Team (PMT) made up of Weston staff and representatives with input from the Oregon Department of Transportation (ODOT). The project was also guided by a Citizen Advisory Committee (CAC). The CAC provided guidance on the direction of the TSP and consisted of staff members from ODOT and Weston citizens. In addition, area stakeholders provided guidance and ensured that the needs of the people of Weston were incorporated into the TSP.

The PMT, CAC, and project stakeholders devoted a substantial amount of time and effort to the development of the Weston Transportation System Plan (TSP) Update, and their participation was instrumental in the development of this document. The consultant team and PMT believe that the city's future transportation system will be better because of their commitment.

#### Project Management Team (PMT)

**Duane Thul** 

City of Weston Mayor

Sheldon Delph

City of Weston Grant Coordinator

**Scott Spendlove** 

City of Weston Public Works Director

Debi Russell

City of Weston Recorder

Cheryl Jarvis-Smith

TGM Grant Manager

#### Citizen Advisory Committee (CAC) Meeting Attendees

Jennifer Spurgeon

Weston City Council/Athena-Weston School

Board

Donald Jackson

East Umatilla County RFPD

Sheila Jasperson

City of Weston Assistant Recorder

Heidi Scott (Delph)

Weston Parks & Recreation Committee

Jeff Wise **ODOT Region 5 Traffic**  Bill Boyd

Weston City Council/Citizen

Lyn Delph

Weston City Council/Citizen

**Nola Thul** 

Weston Citizen

Michael Lambert

CTUIR Fisheries Habitat Program

Chapter 1 Summary

## WESTON'S MULTIMODAL TRANSPORTATION PROJECTS

Projects included in this plan have been determined through the public process shown in Figure 1-1. These projects were either taken from previously adopted plans and then refined through this process or developed through this planning effort. Table 1 - 1 below summarizes the multimodal transportation projects that will help shape Weston's future. The project numbers are for reference purposes and do not indicate the project's priority level. Prioritization is discussed in Chapter 4. The locations of the projects are shown in Figure 1-2.

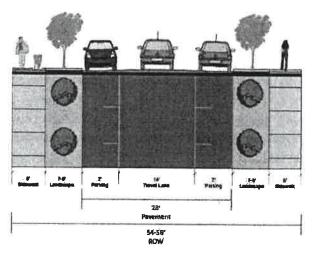
**Table 1 - 1 Multimodal Transportation Projects** 

Project #*	Project Name			
1	Water Street Improvements			
2	Water Street/Main Street Intersection Plaza Enhancement			
3	Northern Gateway			
4	Southern Gateway			
5	City Park Pine Creek Interaction Site			
6	Downtown Pine Creek Interaction Site			
7	Water Street Bridge Replacement			
8	Franklin Street Bridge Replacements			
9	Main Street Bus Stop Enhancements			
10	Wallace Street Sidewalk			
11	Weston Middle School Bus Entry Sidewalk			
12	Weston Middle School Bus Exit Sidewalk			
13	Main Street to Weston Middle School Connector Path			
14	Wallace Street/Broad Street Intersection Improvements			
	Not Shown on Map			
15	LED Lighting Conversion			
	Projects Outside Weston's UGB			
16	Weston-Athena Multimodal Connection			
17	OR 204/Water Street Realignment			
18	OR 11 Freight Signing (not shown on map)			
19	OR 11 Bicycle/Pedestrian Crossing (not shown on map)			

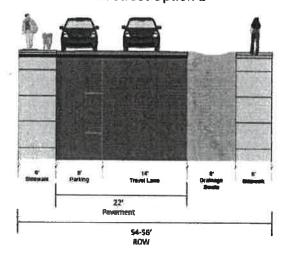
<sup>&</sup>lt;sup>1</sup>Project numbers are for reference only and do not Indicate the project's priority level

## UPDATED STREET STANDARDS TO INCLUDE STORMWATER TREATMENT

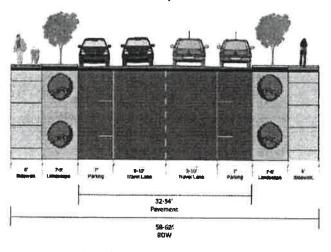
Street standards were reviewed as a part of this plan. Through this process, it was determined that the local street standards should be updated to allow for drainage swales. The updated local street standards are shown in Figure 1-3.



**Local Street Option 1** 



Local Street Option 2



**Local Street Option 3** 

Figure 1-3 Local Street Standards

Chapter 2 Introduction

- City of Weston Development Code (2001)
- City of Weston Comprehensive Plan (2005)
- City of Weston Infill Plan (2007)
- Reimagining Weston (2011)
- Athena-Weston Safe Routes to School and Weston Downtown Revitalization + Citywide Connections (2011)

#### **Public Involvement**

The TSP planning process provided the citizens of Weston and local businesses with the opportunity to identify their vision and priorities for the future transportation system within the city. The planning process was guided by a project management team (PMT) and citizen advisory committee (CAC). The PMT was responsible for decision making and the regular management of the project and included representatives from the City and ODOT. The CAC offered their recommendations for the plan's direction and was comprised of key stakeholder agencies, including the City and ODOT, and Weston citizens, staff, and elected officials.

Members of the PMT and CAC reviewed the technical aspects of the TSP. They held four PMT meetings and three CAC meetings (including a walking tour of Weston) throughout the course of the project, including identifying and evaluating existing deficiencies and opportunities for improvement; reviewing and selecting project concepts; reviewing partnership and funding opportunities; and the presentation of recommended ordinance amendments.



Attendees Review Project Concepts at the 1st Public Open House

In addition to the established advisory committees, public involvement for developing and reviewing the Weston TSP was achieved through:

- Two public open houses held at key junctures throughout the project (identifying and evaluating existing deficiencies and opportunities for improvement; and reviewing and selecting project concepts)
- Two workshops with local school age youth (one with the senior class of Weston-McEwen High School and the other with the 5<sup>th</sup>-grade class at Weston Middle School)

#### Land Use/Economic Development

Transportation improvements can benefit existing local employers, as well as attract new business to the city. The largest employers in the city are Smith Frozen Foods and J&J Snack Foods, both of which are located off Key Road on the north end of town. These businesses rely on the regional transportation system for shipping goods to and from their processing facilities in Weston. Projects to improve traffic circulation and safety in the vicinity of these employers, including the roads they use to access OR 11 and OR 204, will benefit them.

Weston Middle School and local businesses in the central city can all benefit from multi-modal connectivity improvements and streetscape/beautification projects. One great advantage of a city the size of Weston is that the entire community can be walkable and/or bikeable. Building a strategic network for these modes will benefit all local employers. Providing an appropriate amount of on-street parking in commercial areas is also important to the local businesses.

The entire community can benefit from increasing visitor traffic through the city. An estimated 17% of employment in Umatilla County is in categories which can benefit from tourism directly or indirectly. This includes auto traffic from the highways, as well as cycling tourism. Cycling tourism accounted for approximately \$15.3 million in spending in eastern Oregon in 2012 (Reference 1) and has potential for further growth. OR 11 and OR 204 are both known cycling routes and provide opportunities to capture tourists that would otherwise travel by Weston. Projects that promote bicycling locally and create a more bicycle friendly environment will make Weston a more attractive destination for bicycle tourists.

#### Health

According to County Health Rankings, a program of the Robert Wood Johnson Foundation and the University of Wisconsin Population Health Institute, Umatilla County is in the bottom third of Oregon counties for health outcomes and factors (Reference 2)<sup>1</sup>. Table 2 - 1 provides a summary of how Umatilla County compares to the rest of the state with respect to specific factors that are most likely to be directly impacted by transportation choices.

Table 2 - 1 Health Factors Impacted by Transportation - Umatilla County Compared to Oregon

Factor	Umatilla County Measure	Oregon Average
% of Adults Considered Obese	33%	27%
% of Adults Reporting No Physical Activity	24%	16%
% of Adults Living Near a Park or Recreational Facility	65%	89%
% of Motor Vehicle Fatalities Involving Alcohol	27%	31%
Driving Alone to Work	80%	72%
Driving Alone to Work (>30 Minute Commute)	16%	26%

<sup>&</sup>lt;sup>1</sup> Health data is not available for the City of Weston, so Umatilla County data is used.

Chapter 3 Transportation System Plan

WESTON'S MULTIMODAL TRANSPORTATION PROJECTS WESTON, OREGON

3-1



PROPOSED PROJECT LOCATION

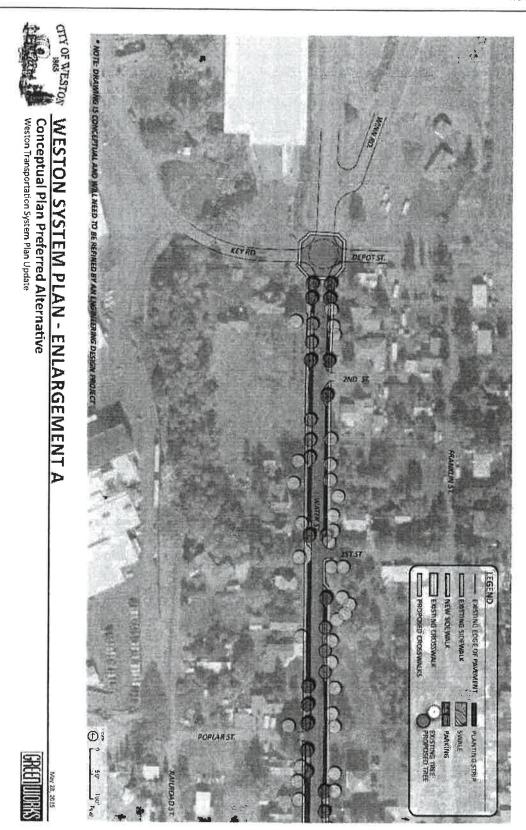


Figure 3-2 Project #1 - Water Street Improvements - North Section

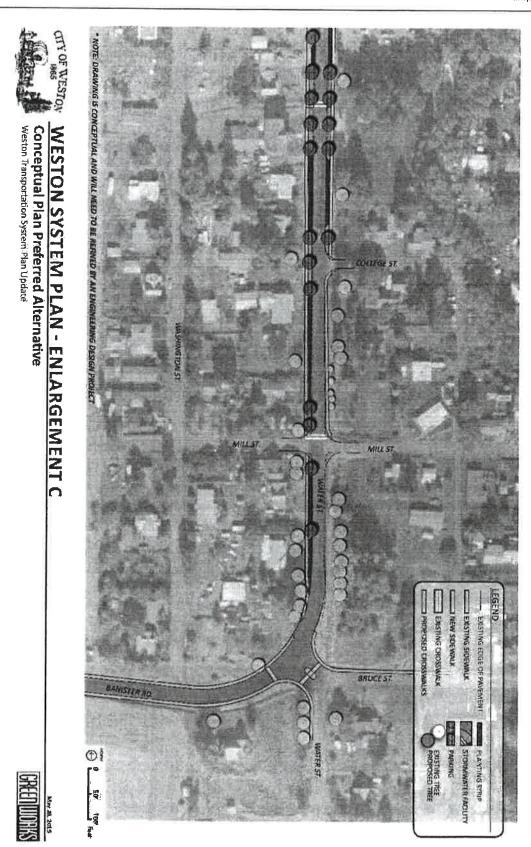


Figure 3-4 Project #1 - Water Street Improvements - Southern Section

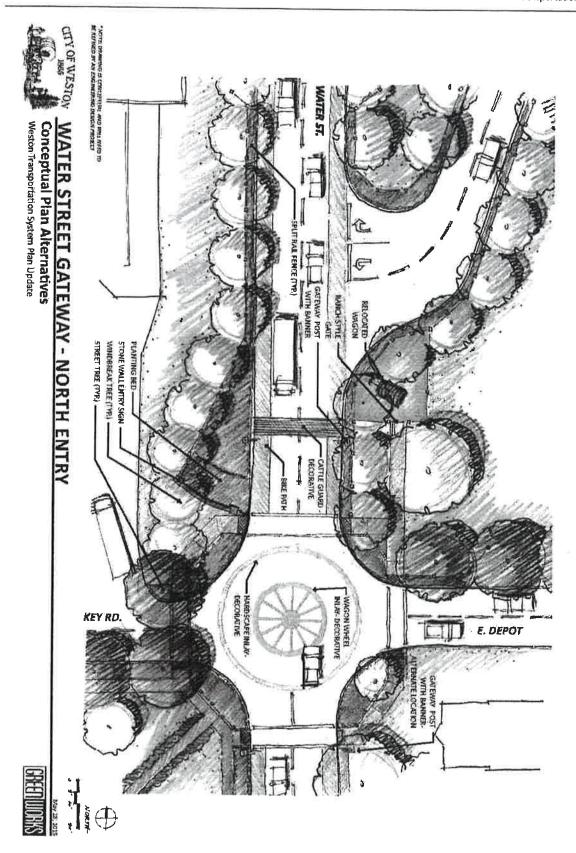


Figure 3-6 Project #3 - Northern Gateway Concept

### **Functional Classification**

The purpose of classifying roadways is to create a plan for a balanced transportation system that provides mobility for all modes of transportation, as well as access to adjacent land uses in an orderly manner. A roadway's functional classification determines its intended purpose, the amount and character of traffic it is expected to carry, and the roadway's design standards and overall management approach. Weston's streets are classified as either collectors or local streets, as shown in Figure 3-8. No changes to the functional classification system have been made from the previous plan.

### **Collectors**

Collector is the highest order of street in Weston's network and is intended to provide for circulation and mobility for all users of the system.

- Collectors carry moderate traffic volumes at moderate or low speeds.
- They typically have two-lane cross-sections with on-street parking.
- Although they carry higher volumes than local streets, they are intended to provide direct access to adjacent land rather than serving through traffic.
- Within Weston, collector streets connect the local streets to the surrounding transportation system of Umatilla County roads and State highways.

### **Local Streets**

Weston's Local streets are primarily intended to provide access to abutting land uses.

- Local street facilities offer the lowest level of mobility and consequently tend to be low-speed facilities. As such, local streets should primarily serve passenger cars, pedestrians, and bicyclists.
- Heavy truck traffic is discouraged.
- On street parking is common.

### **Street Design Standards**

Street design standards support the functional and operational needs of streets, including safety, multimodal accessibility, and capacity. They ensure that the system of streets, as it develops, will be capable of safely and efficiently serving the traveling public while also accommodating the orderly development of adjacent property.

The street design standards are shown as a series of cross sections in Figures 3-9 through 3-11 for collector and local streets and alleys. Through this process, the local street standards have been updated to allow for drainage swales. Water Street has also been given

Preferred Alternative

POSITIVES:

• Wider swales on both sides of Street trees on both sides of



## Conceptual Plan Preferred Alternative Weston Transportation System Park Byddie

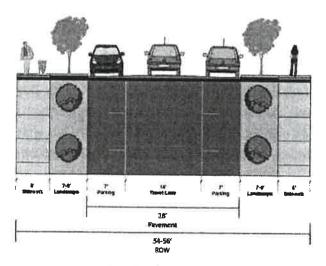
# WATER STREET - TYPICAL SECTION ALTERNATIVES

### NEGATIVE: Narrowet paved section limits Negative of equipment with oncoming traffic No bike lane or shoulder Fast walkway wider Vegetated buffer from vehicle traffic on both sides of street intermittent parking on both der planters provide larger DRIVE LAME DRIVE LANG

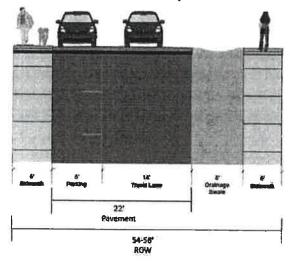


Figure 3-9 Water Street Cross-Section Standard

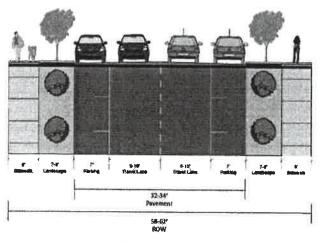
WALK



**Local Street Option 1** 



**Local Street Option 2** 



**Local Street Option 3** 

Figure 3-11 Local Street Standards

PEDESTRIAN SYSTEM AND PLANNED PROJECTS WESTON, OREGON

STREET

3-12



LEGEND

SCHOOL CROSSWALK WITH FLASHER
PROPOSED PROJECT LOCATION

URBAN GROWTH BOUNDARY

ayout Tab: Figure 2 (2)

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9177713 - Weston TSP Update\dwgslincoming\existing conditions.DWG

ALLEY

MILL

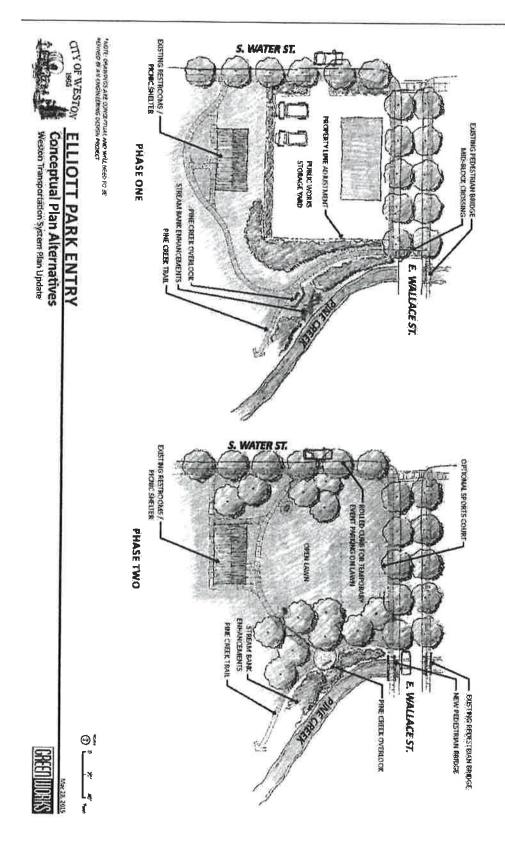
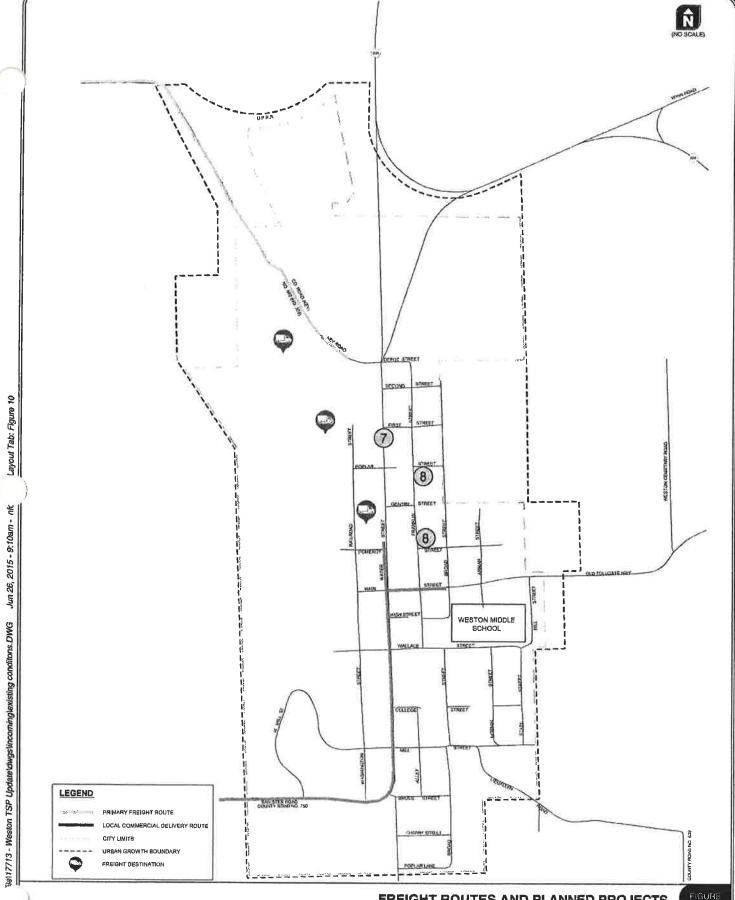


Figure 3-13 Project #5 - City Park Pine Creek Interaction Site Concept



Weston (A) (B) (B) TRANSPORTATION TRANSPORTATION FREIGHT ROUTES AND PLANNED PROJECTS WESTON, OREGON

3-15

Table 3-5 Projects Outside Weston's UGB Recommended for Implementing Agency Consideration

Project #1	Project Name	Implementing Agency
16	Weston-Athena Multimodal Connection	Umatilia County
17	OR 204/Water Street Realignment	ODOT
- (mail:	Not Shown on Map	NA SERENAMENT
18	OR 11 Freight Signing	ODOT
19	OR 11 Bicycle/Pedestrian Crossing	ODOT

<sup>&</sup>lt;sup>1</sup>Project numbers are for reference only and do not indicate the project's priority level

In order to implement these projects, Weston will need to request that the responsible agency (i.e. ODOT, Umatilla County) consider the projects in their own planning efforts. More information about each of these projects can be found in the prospectus sheets in the appendix.

### IMPLEMENTATION PLAN

The City of Weston will not be able to fund all of the identified projects in this transportation plan on its own. Fortunately, there are a variety of options available to fund these projects. This chapter presents an overview of existing and future transportation funding estimates for Weston and identifies potential opportunities for the City to expand its transportation funding options.

### HISTORY OF TRANSPORTATION FUNDING IN WESTON

The following section outlays historical transportation funding within the project area. City of Weston, Umatilla County, Confederated Tribes of the Umatilla Indian Reservation (CTUIR), and Oregon Department of Transportation (ODOT) staff were all contacted to compile this information.

### **Revenue Sources**

Table 4- 1 displays the total revenue transferred into the City's transportation budget since 1999, as provided by the City. The majority of the funding has come through grants and other external sources (e.g. Wildhorse Foundation, Special City Allotment [SCA]), though, with the exception of a \$25,000 SCA grant in 2010, the exact amounts provided by each source are unknown.

Table 4-1 City of Weston Funds Transferred into City's Transportation Budget, 1999-2013

0	100	557.7	0	0	0	0	0	0	0	160	42.5	25	30	65
2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	Avg
1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	
FY	FY	FY	FY	FY	FY	FY	FY	FY	FY	ľγ	FY	FY	FY	

All numbers shown in \$1,000s

As shown in Table 4-1, the level of funding transferred into the City's transportation budget has been inconsistent and dependent to an unknown extent on external sources. Therefore it is likely not prudent to assume any particular amount of transportation funding will be available on a yearly basis for future transportation projects.

### **Expenditure History**

Table 4- 2 displays the total expenditures on transportation related projects within the City of Weston since 1999, as provided by the City. All expenditures are noted as being for street paving.

Table 4- 3 Potential Grant Sources and Partnership Opportunities for Consideration in Weston

Funding Source	Description	Potential Facility Benefit	Opportunities/Constraints
	The Statewide Transportation Improvement Program (STIP) is		The next STIP (2015-2018) has been adopted by the Oregon Transportation Commission and is pending Federal Highway Administration approval.
Statewide Transportation Improvement Program (STIP)	Oregon's 4-year capital improvement program. This scheduling and funding document is updated every two years. Projects included on the STIP are allocated into the five different ODOT regions. Projects are generally divided into one of two categories: "Fix-it" or "Enhance."	- Streets - Sidewalks - Bike lanes - Trails	Weston can apply for "Enhance" funds for projects, which encompasses a range of projects, including those that were previously under the statewide bicyle and pedestrian program. The City should work with their ODOT Region 5 local agency liaison and any appropriate statewide program directors (e.g. Bicycle and Pedestrian coordinator) in preparing an application to improve their chances of success in obtaining funds. Applications for the 2018-21 STIP Enhance funds are due August 3, 2015.
Oregon Parks and Recreation Funds	Recreational Trails Grants are national grants administered by the Oregon Parks and Recreation Department (OPRD) for recreational trail-related projects, such as hiking, running, bicycling, off-road motorcycling and all-terrain vehicle riding.	- Trails	OPRD distributes more than \$4 million annually to Oregon communities for outdoor recreation project, and has awarded more than \$40 million in grants across the state since 1999. Grants can be awarded to nonprofits, cities, counties, and state and federal agencies.
Public/Private Partnerships	Public/private partnerships are agreements between public and private partners that can benefit from the same improvements. They have been used in several places around the country to provide public transportation amenities within the public right-of-way in exchange for operational revenue from the facilities.	- Streets - Sidewalks - Bike lanes - Trails - Transit	These partnerships could be used to provide services such as charging stations, public parking lots, bicycle racks, benches, or public art installations. Specific opportunities in Weston could include implementing streetscape amenities and public art at the Main/Water intersection or the north or south gateways potentially in partnership with local employers. Creek restoration in association with tribal organizations could be another opportunity.
Community Service Projects	Small-scale improvements could be organized, led and conducted by various members of the community to help implement and offset the costs of larger infrastructure projects.	- Trails - Pine Creek interaction sites - Gateway treatments	Community service projects could be used to help clear brush or implement portions of the vision for Pine Creek interaction sites at the City park or Saling House. They could also be used to help implement the vision for the north and south gateways, similar to the community-based effort to put in the existing wagon monument north of Depot Street.
Immediate Opportunity Fund (IOF)	The IOF is a discretionary fund that can be used for the construction and improvement of streets and roads that are needed to support primary economic development.  Access to this fund is discretionary and the fund may only be used when other sources of financial support are unavailable or insufficient. The IOF is not a replacement or substitute for other funding sources.	- Streets - Sidewalks - Bike lanes - Rail	The IOF could potentially be used by Weston for a project that would enhance its economic competitiveness, such as a project that would improve access to the food processing facilities.

Table 4- 4 Potential New Funding Sources for Consideration in Weston

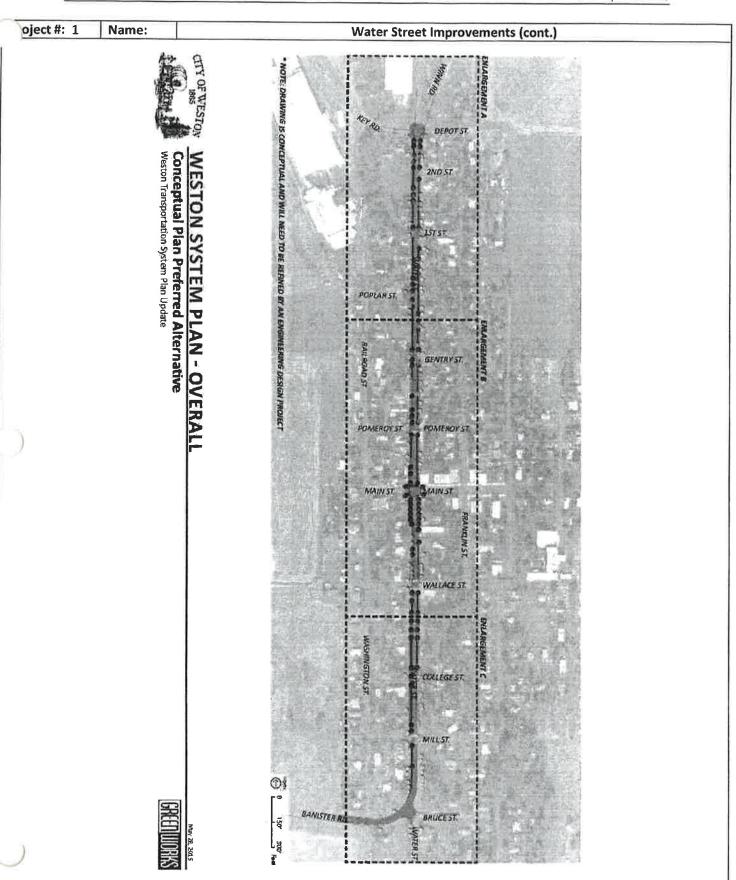
Funding Source	Securption	Potential Facility Benefit	Opportunities/Constraints
User Fees	Fees tacked onto a monthly utility bill or tied to the annual registration of a vehicle to pay for improvements, expansion, and maintenance to the street system. This may be a more equitable assessment given the varying fuel efficiency of vehicles.	Primarily Street Improvements	The cost of implementing such a system could be prohibitive given the need to track the number of vehicle miles traveled in every vehicle. Additionally, a user fee specific to a single jurisdiction does not account for the street use from vehicles registered in other jurisdictions.
Street Utility Fees/Road Maintenance Fee	The fee is based on the number of trips a particular land use generates and is usually collected through a regular utility bill. For the communities in Oregon that have adopted this approach, it provides a stable source of revenue to pay for street maintenance.	- Streets - Sidewalks - Bike lanes - Trails	A \$5.00 montly fee charged to the estimated 252 households in Weston would generate approximately \$15,120 per year in revenue from residential uses.  The City would need to draft a methodology consistent with state requirements for street maintenance fees.
Local Fuel Tax	A local tax assessed on fuel purchased within the jurisdiction that has assessed the tax.	Primarily street maintenance or project specific intersection/roadway improvements.	There is only one primary gas station in the city, thereby putting the entire burden on one facility. Furthermore, Weston has little daily regional through traffic. This lack of significant through traffic places more of the tax burden on the residents of Weston.
Systems Development Charges (SDCs)	SDCs are fees assessed on development for their impacts on public infrastructure.	- Streets - Sidewalks - Bike lanes - Trails	The City of Weston does not currently impose transportation SDCs.
Stormwater SDCs, Grants, and Loans	SDCs, Grants, and Loans obtained for the purposes of making improvements to stormwater management facilities.	Primarily Street Improvements	Some jurisdictions in Oregon have used these tools to finance the construction and maintenance of Green Streets.
Optional Tax	A tax that is paid at the option of the taxpayer to fund improvements. Usually not a legislative requirement to pay the tax and paid at the time other taxes are collected, optional taxes are usually less controversial and easily collected since they require the taxpayer to decide whether or not to pay the additional tax.	- Streets - Sidewalks - Bike lanes - Trails - Transit	The voluntary nature of the tax limits the reliability and stableness of the funding source.
Sponsorship	Financial backing of a project by a private corporation or public interest group, as a means of enhancing its corporate image.	- Trails - Transit	Sponsorship has primarily been used by transit providers to help offset the cost of providing transit services and maintaining transit related improvements.  Potential sponsorship opportunities could include Smith Frozen Foods or J&J Snack Foods
Bonds	Bonds would be debt issued on the bond market to pay for specific capital projects.	Capital improvements	Adding long-term debt to the City's budget could be difficult.

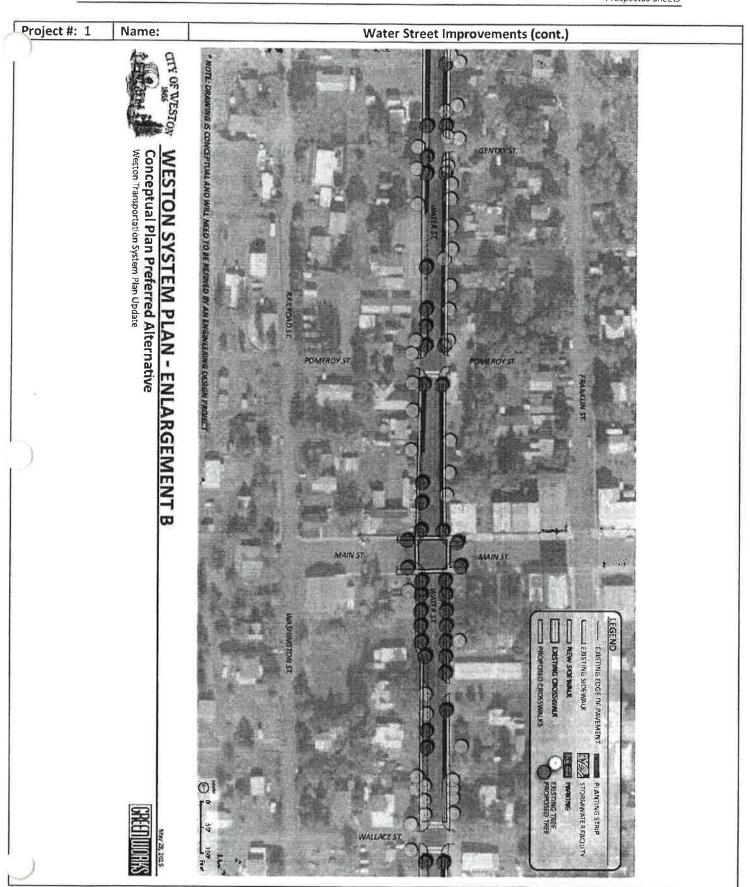
Weston, Oregon

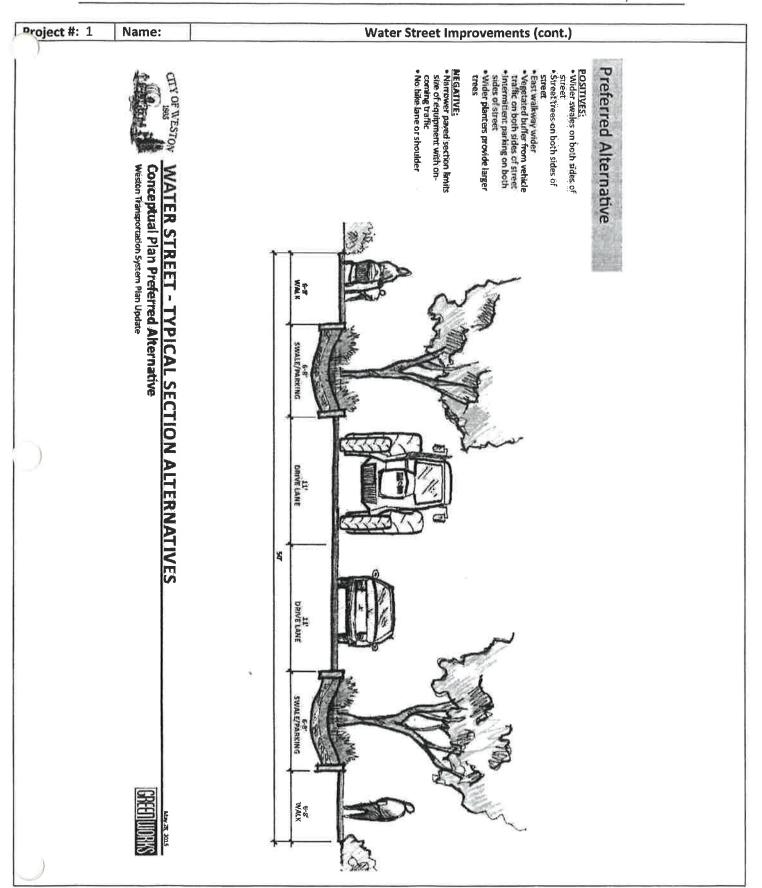
Table 4-5 Project Implementation Priority Tiers

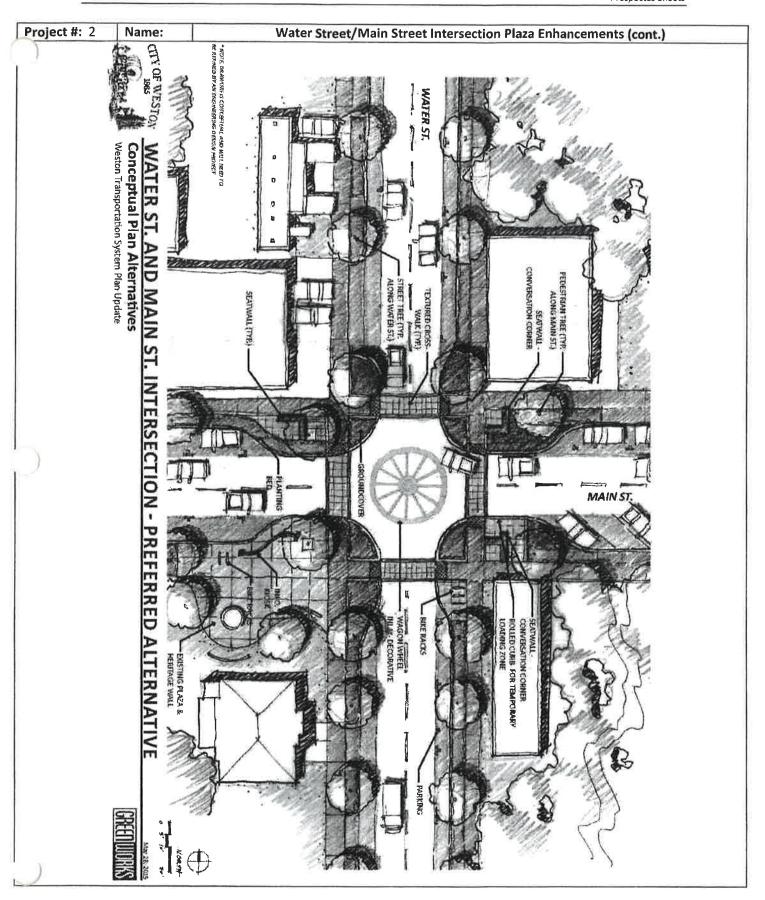
Project#	Project Name
	High Priority Projects
1	Water Street Improvements
8	Franklin Street Bridge Replacements
9	Main Street Bus Stop Enhancements
10	Wallace Street Sidewalk
11	Weston Middle School Bus Entry Sidewalk
12	Weston Middle School Bus Exit Sidewalk
13	Main Street to Weston Middle School Connector Path
14	Wallace Street/Broad Street Intersection Improvements
	Long-Term Priority Projects
2	Water Street/Main Street Intersection Plaza Enhancement
3	Northern Gateway
4	Southern Gateway
5	City Park Pine Creek Interaction Site
6	Downtown Pine Creek Interaction Site
7	Water Street Bridge Replacement
15	LED Lighting Conversion
	Projects Outside Weston's UGB
16	Weston-Athena Multimodal Connection
17	OR 204/Water Street Realignment
18	OR 11 Freight Signing (not shown on map)
19	OR 11 Bicycle/Pedestrian Crossing (not shown on map)

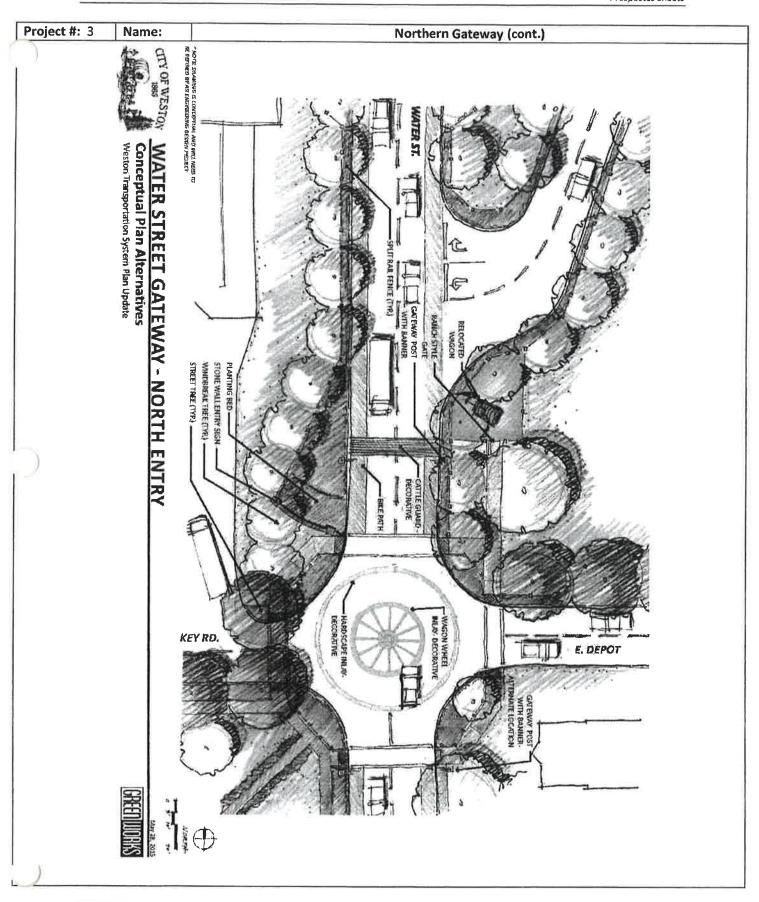
Appendix A Project Prospectus Sheets

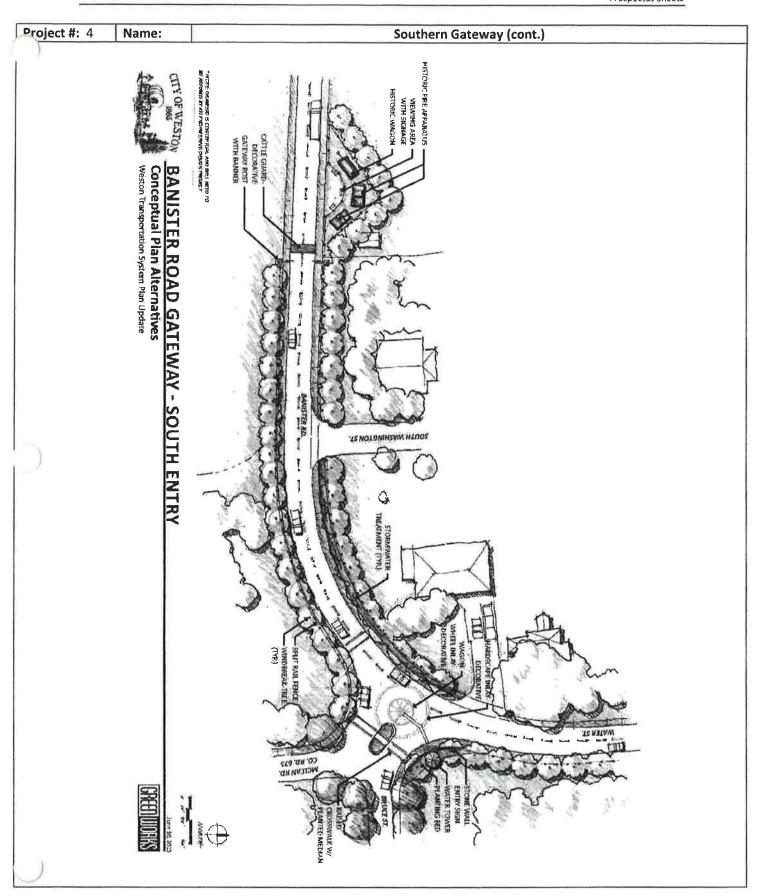


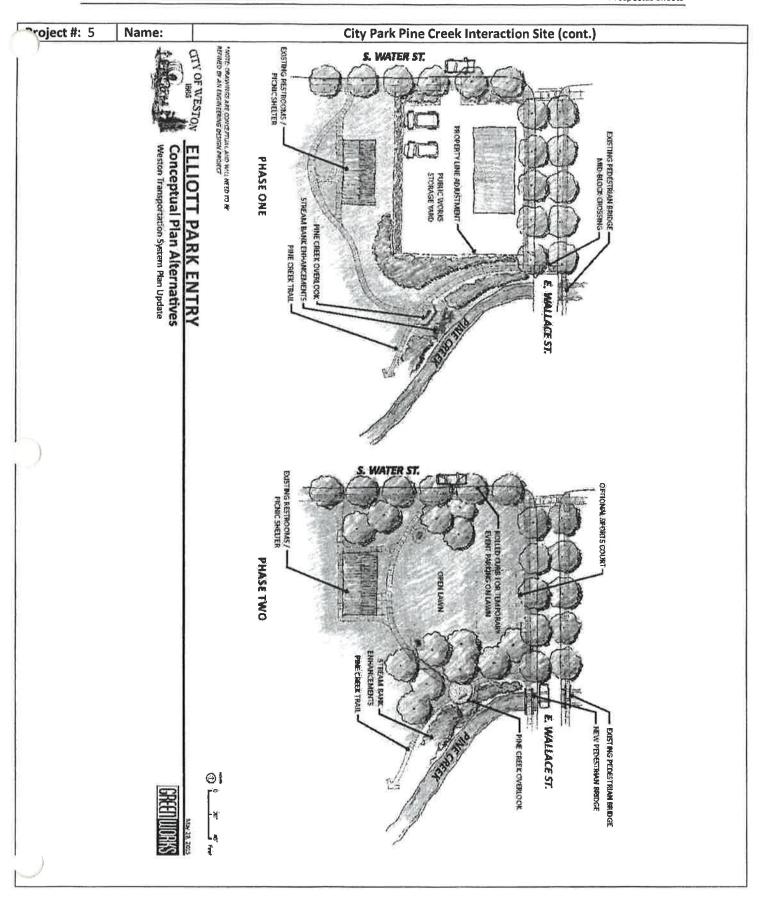


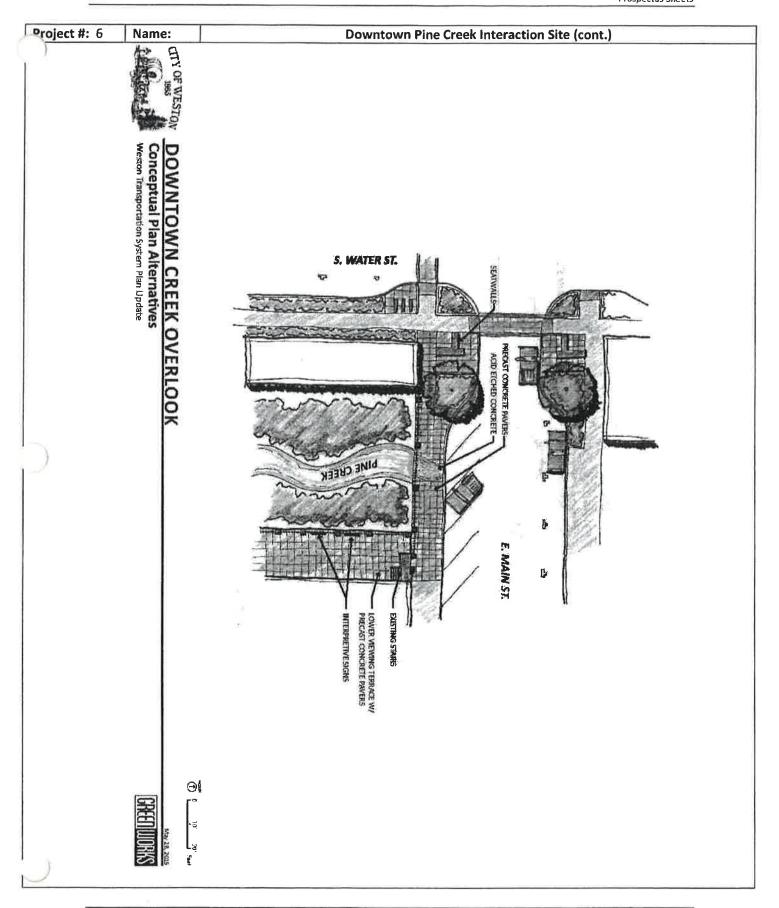




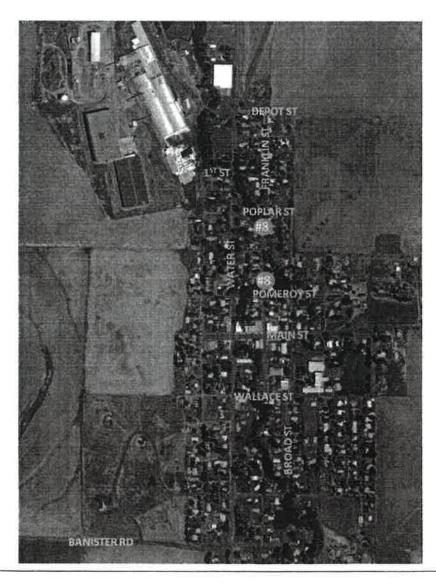








Project #: 8	Name:	Franklin Street B	Bridge Replacements			
escription:		l-restricted bridges on Franklin Stree ost cost effective replacement.	et near Pomeroy Street and Poplar Street. A box			
Purpose:	To improve emergency vehicle response times on Franklin Street. Both bridges are load restricted to six tons, making them impassable for modern fire trucks, thereby restricting responses times to the adjacent properties on Franklin Street in the event of an emergency.					
Potential	No significant challen	ges beyond those typically encounter	red with bridge replacement projects are			
Challenges:	anticipated at this tim		• , , , ,			
Mod	des Affected	Priority Tier	Cost Estimate			
Pedestrian, B	, Bicycle, Motor Vehicle High \$400,000 per bridge					





Project #: 10	Name:	Wallac	e Street Sidewalk			
escription:	Build a sid	ewalk along the north side of Wallace Street	from Franklin Street to the existing walkway across			
)			in the Weston-Athena Safe Routes to School plan.			
Purpose:	To provide people, especially Weston Middle School students, a place to walk separated from moto vehicle traffic. Weston Middle School students are currently not allowed to walk on this section of Wallace Street due to its lack of sidewalks. This is a popular spot for parents to drop off/pick-up their children, so Wallace Street is busy during school hours.					
Potential	Right-of-w	ay may be required. Even if it is not required	, the project will require building sidewalk through			
Challenges:	area currently being used by an adjacent residence.					
Mod	es Affected	Priority Tier	Cost Estimate			
Pe	edestrian	High	\$32,000 (includes some ROW)			





Project #: 12	Name:	Weston Middle	School Bus Exit Sidewalk				
Pescription:	Build sidew	alk along the east side of Broad Street from v	where it currently ends north of High Street to Mair				
)	Street. This	project was originally included in the Weston	n-Athena Safe Routes to School plan.				
Purpose:	To provide	To provide Weston Middle School students a place to walk to school separated from motor vehicle traffic.					
	This street is where buses exit after dropping off/picking up children.						
Potential			the project will require building sidewalk through				
Challenges:		tly being used by an adjacent residence. Will					
	Athena-Weston School District.						
Mod	es Affected	Priority Tier	Cost Estimate				
Pe	Pedestrian High \$27,000 (includes some ROW)						





Project #: 14	Name:	Wallace Street/Broad Str	eet Intersection Improvements				
escription:		ide a raised curb extension to improve the vi	oad Street by Weston Middle School. This would sibility of crossing children and slow down motor				
Purpose:	Residents and school children parents have noted that it can be difficult to see children walking out from behind the sport courts across from Broad Street and that this area gets busy with parents dropping off or picking up their children.						
Potential Challenges:	Will require coordination between the City and Athena-Weston School District.						
Mod	es Affected	Priority Tier	Cost Estimate				
Po	edestrian	High	\$5,000 (no ROW included)				





Project #: 16	Name:	Weston-Athena Multimodal Connection					
Pescription:	options inc painted buf	ared-use path along Banister Road from approximately Mill Street to OR 11. Pot a 8-10 foot wide path adjacent to the road separated from motor vehicle traffic depressed rumble strips, or plastic delineator posts or a 10 foot wide path separated orm water swale. A concept drawing of the two options is shown on the next page.	by a				
Purpose:	To provide an option for people to walk and bike between Weston and Athena. Weston children attendelementary and high school in Athena, Athena children attend middle school in Weston, there is a community swimming pool in Athena that Weston children walk and bike to already, and there is a general desire within the community to provide a viable route for people who would like to walk or bike between the cities						
Potential Challenges:	It needs to be determined if the project can fit within existing right-of-way. Banister Road is a Umatilla County facility; therefore the County will need to either co-adopt this plan or include it in their own plan. Topography issues along the route may also need to be resolved at some point. To complete the connection, a crossing of OR 11 (see project #19) and a connection from OR 11 into Athena will be necessary.						
Mod	es Affected	Priority Tier					
Pedes	trian, Bicycle	N/A -Outside City's UGB					





Project #: 17	Name:	OR 204/Water Street Realignment
escription:		iter Street to intersect OR 204 at an approximately 90 degree angle. Eliminate the existing Water Winn Road (extended) accesses onto OR 204. This project is outside Weston's UGB and would
	be implem	ented by ODOT. A concept drawing prepared by ODOT is shown on the next page. The new would likely also include right and left-turn lanes, though these are not shown in the concept.
Purpose:	To reduce and elimina	the potential for crashes along this section of OR 204 by reducing the number of access points
Potential	Will likely r	equire obtaining right-of-way. The City has considered relocating the Public Works building to
Challenges:	the location	the realigned Water Street would pass through. An engineering study will be needed to if adequate sight distance can be provided at the realigned intersection.
Mod	os Afforted	Driggity Tigs

Modes Affected
Motor Vehicle

**Priority Tier**N/A – Outside City's UGB





						Prospectus Sheets
Project #: 18	Name:			OR 1	1 Freight Signing	
scription:	Add signing	g to OR 11 t	o direct freigh			e food processing facilities.
Purpose:	To ensure	roads that	are capable o	of handling and ap	propriate for freight	traffic are used. A lack of loc
	awareness	results in so	ome truck dri	vers accessing the	food processors via W	ater Street from either OR 2
	or Banisteı	r Ro <mark>a</mark> d. This	could be par	ticularly problema	atic for trucks coming	from Banister Road due to t
			Water Street.			
otential	Federal lav	v strictly reg	ulates signage	e along highways,	such as OR 11. This pro	oject is outside Weston's UGB
challenges:		ed to be co	ordinated witl	ODOT.		
Mod	des Affected		Pri	ority Tier		<b>发展性质量要求是</b> 。2011
Motor \	/ehicle – Freig	ght	N/A – Ou	tside City's UGB		<b>国民主教教育员,就是是</b>
Vicinity M	ap (N/A - TBE	<b>)</b>				
•		•				
1						
_)						

## CITY OF PILOT ROCK

## Transportation System Plan

### **Umatilla** County

### Department of Land Use Planning

DIRECTOR TAMRA MABBOTT

LAND USE PLANNING, ZONING AND PERMITTING

CODE

ENFORCEMENT

SOLID WASTE COMMITTEE SMOKE

MANAGEMENT

GIS AND MAPPING

RURAL ADDRESSING

LIAISON, NATURAL RESOURCES & ENVIRONMENT MEMO

TO:

**Umatilla County Board of Commissioners** 

FROM: DATE:

Brandon Seitz, Assistant Planner

January 10, 2017

CC:

Tamra Mabbott, Planning Director

Doug Olsen, County Counsel

RE:

January 18, 2017, Board of Commissioners Hearing

City of Pilot Rock TSP Co-adopt Text Map Amendment, #T-16-071

Umatilla County is in the process of reviewing the County Transportation System Plan (TSP). As part of the review it was determined that the County has never formally adopted the City of Pilot Rock's TSP. Co-adoption provides an opportunity for both agencies to work together to implement the plan in all of the relevant planning documents.

Pilot Rock's TSP was prepared as part of an overall effort in 2001 to prepare TSPs for the County and eight smaller municipalities. The document establishes the City's road classification plan and standards. It also establishes a multimodal system plan. The document applies to all the transportation systems and plans within City Limits and the Urban Growth Area. Also established is a 20-year list of the City's Capital Improvement Program.

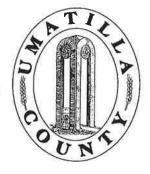
### Conclusion

The City requests the County co-adopt their existing TSP's. The TSP will apply to development within Pilot Rock's Urban Growth Area.

### Attachments

The following attachments have been included for review by the Board of Commissioners:

Pilot Rock TSP (2001)



City of Pilot Rock

Transportation System Plan

Final Report

**June 2001** 

Original Prepared by:

David Evans and Associates, Inc.

### TABLE OF CONTENTS

CHAPTER 1: INTRODUCTION	1-1
PLANNING AREA	1 1
PLANNING PROCESS	1-1
Community Involvement	1-2
Goals and Objectives	1_2
Review and Inventory of Existing Plans, Policies, and Public Facilities	1-2
Future Transportation System Demands	1-2
Transportation System Potential Improvements	1-3
Transportation System Plan	1-3
Funding Options	1_2
Recommended Policies and Ordinances	1-3
RELATED DOCUMENTS	″ 1_4
Other Transportation System Plans Prepared Concurrently with the Pilot Rock TSP Other State Plans	1-4
CHAPTER 2: GOALS AND OBJECTIVES	2-1
OVERALL TRANSPORTATION GOAL	2-1
Goal 2	2-1
Goal 3	2-1
Goal 4	2-2
Goal 4	2-2
Goar J.	2-3
CHAPTER 3: TRANSPORTATION SYSTEM INVENTORY	3-1
STREET SYSTEM	3-1
Street Classification.	3-1
Street Layout	3-2
State Highways	3-3
US 395	3-3
GENERAL PAVEMENT CONDITIONS	3-4
City Streets	3-4
State Highways	3-4
BRIDGES	3-4
PEDESTRIAN SYSTEM	3.5
BIKEWAY SYSTEM	3-5
PUBLIC TRANSPORTATION	3-6
RAIL SERVICE	3-6
AIR SERVICE	3-7
PIPELINE SERVICE	3-7
WATER TRANSPORTATION	3-7
CHAPTER 4: CURRENT TRANSPORTATION CONDITIONS	4-1
TRAFFIC VOLUMES	4-1
Average Daily Traffic	4-1
Street Capacity	4-1
Alternative Work Schedules	4-3
Travel Mode Distribution	4-4

ACCIDENT ANALYSIS	4_5
Historic	4-5
CHAPTER 5: TRAVEL FORECASTS	5-1
Historic Growth	5-1
Historic Growth	5-2
Projected Growth	5-2
TRAFFIC VOLUMES	5-3
Historic	5-3
Future Traffic Volumes	5-4
HIGHWAY SYSTEM CAPACITY	5-4
Analysis Results	5-5
CHAPTER 6: IMPROVEMENT OPTIONS ANALYSIS	6-1
EVALUATION CRITERIA	6-1
STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM PROJECTS	6-1
IMPROVEMENT OPTIONS EVALUATION	6-2
SUMMARY	6-4
CYY I DETERM A MED A NOR CONTROL TO CONTROL	
CHAPTER 7: TRANSPORTATION SYSTEM PLAN	
STREET DESIGN STANDARDS	7-1
Existing Street Standards	7-1
Recommended Street Standards	7-2
ACCESS MANAGEMENT	7-7
Access Management Techniques	7-7
Recommended Access Management Standards	7-8
ACCESS CONTROL RIGHTS	7-9
MODAL PLANS	7-10
Street System Plan	7-10
Pedestrian System Plan	7-11
Bicycle System Plan	7-13
Transportation Demand Management Plan	7-13
Public Transportation Plan	7-13
Rail Service Plan	7-14
Air Service Plan	7-14
Pipeline Service	7-14
Water Transportation	7-14
TRANSPORTATION SYSTEM PLAN IMPLEMENTATION PROGRAM	7-14
20-Year Capital Improvement Program	7-15
CHAPTER 8: FUNDING OPTIONS AND FINANCIAL PLAN	0.4
HISTORICAL STREET IMPROVEMENT FUNDING SOURCES	<b>8-1</b>
Transportation Funding in Umatilla County	1-0
Historical Revenues and Expenditures in the City of Pilot Rock	0.2
Transportation Revenue Outlook in the City of Pilot Rock	0-0
REVENUE SOURCES	8-4
Property Taxes	8-0
System Development Charges	8-7
State Highway Fund	8-8
Local Gas Taxes	δ-δ ο ο
	······································

Vehicle Registration Fees	8-8
Local Improvement Districts	8-9
GRANTS AND LOANS	8-9
Bike-Pedestrian Grants	8-9
Access Management	8-9
Enhancement Program	8-10
Highway Bridge Rehabilitation or Replacement Program	8-10
Transportation Safety Grant Program	8-10
Federal Transit Administration (FTA) Section 5311-Non-urbanized Area Formula Program	8-10
Surface Transportation Program (STP) Funds	8-11
Department of Labor Welfare-to-Work Program	8-11
FTA Section 5310 Discretionary Grants	8-11
Special Transportation Fund	8-11
County Allotment Program	
Immediate Opportunity Grant Program	
Oregon Special Public Works Fund	8-12
Oregon Transportation Infrastructure Bank	8-12
ODOT FUNDING OPTIONS	8-13
FINANCING TOOLS	8-13
General Obligation Bonds	
Limited Tax Bonds	
Bancroft Bonds	
FUNDING REQUIREMENTS	8-14
CHAPTER 9: RECOMMENDED POLICIES AND ORDINANCES	
ELEMENTS REQUIRED BY THE TRANSPORTATION PLANNING RULE	
APPROVAL PROCESSES FOR TRANSPORTATION FACILITIES	
Recommended Policies for Approval Process	
Recommended Ordinances for Approval Process	9-2
PROTECTING EXISTING AND FUTURE OPERATION OF FACILITIES	
Recommended Access Control Ordinances	
PROCESS FOR COORDINATED REVIEW OF LAND USE DECISIONS	
Recommended Process for Applying Conditions to Development Proposals	
Recommended Regulations to Provide Notice to Public Agencies	9-4
Recommended Regulations to Assure that Amendments are Consistent with the Transportation	
Plan	
SAFE AND CONVENIENT PEDESTRIAN AND BICYCLE CIRCULATION	
Recommended Ordinances for Ricycle and Pedestrian Circulation and Access	0_5

### **APPENDICES**

APPENDIX A: REVIEW OF CITY PLANS AND POLICIES

APPENDIX B: MAJOR STREET INVENTORIES

APPENDIX C: UMATILLA COUNTY POPULATION DISCUSSION -

UMATILLA COUNTY POPULATION ANALYSIS

# LIST OF TABLES

TABLE 4-1:	LEVEL OF SERVICE CRITERIA FOR ARTERIAL AND COLLECTOR STREETS	4-2
TABLE 4-2:	SUMMARY OF OPERATIONS AT US 395 AND CEDAR STREET	4-3
TABLE 4-3:	DEPARTURE TO WORK DISTRIBUTION	4-4
TABLE 4-4:	JOURNEY TO WORK TRIPS	4-5
TABLE 4-5:	HISTORIC ACCIDENT RATES FOR STATE HIGHWAYS	4-5
TABLE 4-6:	ACCIDENT SUMMARIES FOR US 395	4-6
TABLE 5-1:	UMATILLA COUNTY POPULATION TRENDS	5-1
	HISTORIC TRAFFIC GROWTH RATES ON STATE HIGHWAYS	
	FORECAST TRAFFIC VOLUMES AND TOTAL GROWTH ON STATE HIGHWAYS	
Table 5-4:	SUMMARY OF FUTURE OPERATIONS AT US 395 AND CEDAR STREET	5-5
	ROADWAY MAINTENANCE AND IMPROVEMENT PROGRAM	
TABLE <b>6-2</b> :	TRANSPORTATION IMPROVEMENT OPTIONS: RECOMMENDATION SUMMARY	6-4
TABLE 7-1:	ROAD DESIGN STANDARDS – BUSINESS/INDUSTRIAL	7-2
TABLE 7-2:	ROAD DESIGN STANDARDS – RESIDENTIAL	7-2
TABLE 7-3:	RECOMMENDED STREET DESIGN STANDARDS	7-3
TABLE <b>7-4</b> :	RECOMMENDED ACCESS MANAGEMENT STANDARDS	7-8
Table 7-5:	RECOMMENDED STREET SYSTEM PROJECTS	7-11
TABLE 7-6:	RECOMMENDED PEDESTRIAN SYSTEM PROJECTS	7-12
TABLE 7-7:	CAPITAL IMPROVEMENT PROGRAM (1998 DOLLARS)	7-15
TABLE 8-1:	SOURCES OF ROAD REVENUES BY JURISDICTION LEVEL	8-1
TABLE 8-2:	Umatilla County Transportation-Related Revenues	8-2
TABLE 8-3:	UMATILLA COUNTY TRANSPORTATION-RELATED EXPENDITURES	8-3
Table 8-4:	UMATILLA COUNTY BICYCLE PATH FUND REVENUES AND EXPENDITURES	8-3
Table 8-5:	CITY OF PILOT ROCK STREET FUND REVENUES	8-4
	CITY OF PILOT ROCK STREET FUND EXPENDITURES	
TABLE 8-7:	ESTIMATED RESOURCES AVAILABLE TO CITY OF PILOT ROCK FROM STATE HIGHWAY FUND, 1998 DOLLARS	8-6
TABLE 8-8:	RECOMMENDED PROJECTS AND FINANCIAL RESPONSIBILITY	
	ESTIMATED CAPITAL FUNDING BALANCE	

# LIST OF FIGURES

	Follows 1	Page
FIGURE 1-1:	PLANNING AREA - PILOT ROCK	1-2
FIGURE 3-1:	ROADWAY FUNCTIONAL CLASSIFICATION - PILOT ROCK	3-2
FIGURE 3-2:	PEDESTRIAN SYSTEM INVENTORY - PILOT ROCK	3-6
FIGURE 4-1:	1996 AVERAGE DAILY TWO-WAY TRAFFIC VOLUMES - PILOT ROCK	4-2
	POTENTIAL TRANSPORTATION SYSTEM IMPROVEMENTS - PILOT ROCK	
FIGURE 7-1:	RECOMMENDED STREET STANDARDS - LOCAL RESIDENTIAL AND ALLEYS	7-2
FIGURE 7-2:	RECOMMENDED STREET STANDARDS - COLLECTOR STREETS	7-2
FIGURE 7-3:	RECOMMENDED STREET STANDARDS - INDUSTRIAL/COMMERCIAL STREETS	7-2
FIGURE 7-4:	RECOMMENDED STREET STANDARDS - ARTERIAL STREETS	7-2
	1: STATE HIGHWAY FUND	

# **CHAPTER 1: INTRODUCTION**

The City of Pilot Rock Transportation System Plan (TSP) guides the management of existing transportation facilities and the design and implementation of future facilities for the next 20 years. This Transportation System Plan constitutes the transportation element of the City's Comprehensive Plan and satisfies the requirements of the Oregon Transportation Planning Rule established by the Department of Land Conservation and Development. It identifies and prioritizes transportation projects for inclusion in the Oregon Department of Transportation's (ODOT's) Statewide Transportation Improvement Program (STIP).

### PLANNING AREA

The City of Pilot Rock's Transportation System Plan planning area covers the entire area within the Pilot Rock Urban Growth Boundary (UGB). The planning area is shown on Figure 1-1. Roadways included in the Transportation System Plan fall under three jurisdictions: the city of Pilot Rock, Umatilla County, and the state of Oregon.

Pilot Rock is located in the central portion of Umatilla County in the northeastern corner of Oregon. The City has a population of roughly 1,600 people. It is laid out in a grid pattern, which is broken up by three creeks and US 395 which runs through the middle of the City. The City's commercial development is concentrated along US 395 in the downtown. The City's biggest employers are lumber companies and there are numerous farms within the UGB. Pilot Rock has its own school district and is conveniently located approximately 15 miles south of Pendleton, which is the largest city in the county.

The US 395 runs northeast-southeast through Pilot Rock acting as both a through route and as the primary commercial street downtown. The highway connects the cities to Pendleton, Stanfield, Hermiston, Umatilla and Washington State to the north; and Ukiah, John Day, and California to the south. Five paved county roads also provide access to the City; (1) County Road No 1375 (East Birch Creek Road) which runs south from US 395, (2) County Road No. 1386 (Circle Road) which runs north from the City, (3) County Road No. 1150 (Stewart Creek Road) which runs east along the city limits, (4) County Road No. 1391 (known locally as Delwood Street) in the southwest, and (5) County Road No. 1151 (known locally as Elm Street) in the east. Additionally, County Road No. 1388 (Stock Drive Road), a dirt road, provides access to Pilot Rock from the west. These roadways allow easy access to the regional production, distribution, and marketing centers in the area and function as arterials and collectors throughout the City. The Oregon Department of Transportation (ODOT) has jurisdiction over US 395, the county has jurisdiction over the county roads, and the City has jurisdiction over the rest of the existing roadways.

The Union Pacific Railroad right-of-way runs northeast to southwest into the UGB and city limits stopping just north of downtown.

Pilot Rock is a major wood processing center for the county. The City's three largest employers in May 1986, were Louisiana Pacific, U.S. Gypsum (USG Industries), and Pine-Lam, Inc. The labor force is subject to seasonal unemployment due to the cyclical nature of natural resource-based industries.

#### PLANNING PROCESS

The Pilot Rock Transportation System Plan was prepared as part of an overall effort in Umatilla County to prepare TSPs for Umatilla County and eight small municipalities: the cities of Adams, Athena, Echo, Helix, Pilot Rock, Stanfield, Ukiah, and Weston. Each plan was developed through a series of technical analyses

combined with systematic input and review by the county, the cities, the management team, the Transportation Advisory Committee (TAC), ODOT, and the public. The TAC consisted of staff, elected and appointed officials, residents, and business people from Umatilla County, and the eight cities. Key elements of the process include:

- Involving the Pilot Rock community (Chapter 1)
- Defining goals and objectives (Chapter 2)
- Reviewing existing plans and transportation conditions (Chapters 3, 4, and Appendices A and B)
- Developing population, employment, and travel forecasts (Chapter 5, and Appendix C)
- Developing and evaluating potential transportation system improvements (Chapter 6)
- Developing the Transportation System Plan and a capital improvement plan (Chapter 7)
- Evaluate funding options and develop financial plan(Chapter 8)
- Developing recommended policies and ordinances (Chapter 9)

### **Community Involvement**

Community involvement is an integral component in the development of a TSP for the city of Pilot Rock, Umatilla County and each of the other seven cities covered under the Umatilla County TSP process. Since the communities faced many similar transportation and land use issues, a public involvement program involving all the jurisdictions was used. This process allowed for individual attention when needed, and general problem solving for all jurisdictions as appropriate. Several different techniques were utilized to involve each local jurisdiction, ODOT, and the general public.

A combined management team and transportation advisory committee (TAC) provided guidance on technical issues and direction regarding policy issues to the consultant team. Staff members from each local jurisdiction, from ODOT, and a local resident from each community served on the TAC. This group met several times during the course of the project.

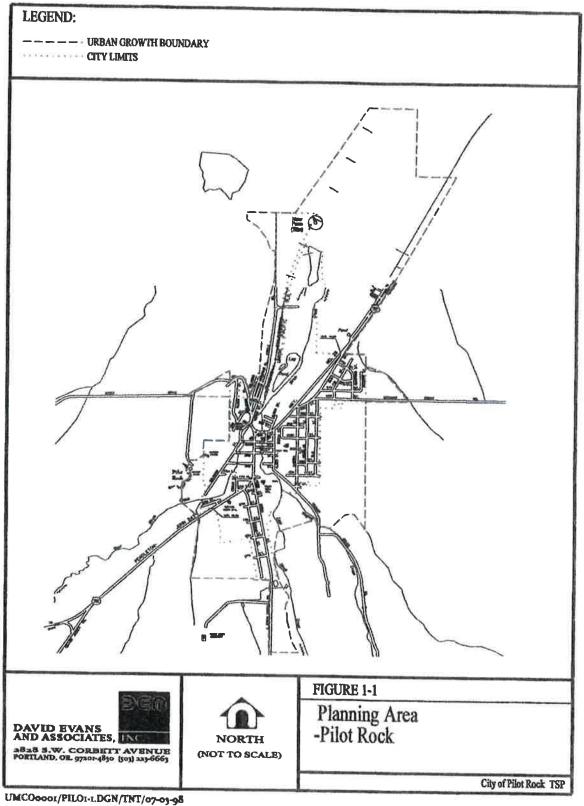
The second part of the community involvement effort consisted of community meetings within Umatilla County. The first public meeting was held in June 1998. The Pilot Rock general public was invited to learn about the TSP planning process and provide input on transportation issues and concerns. A second public meeting was held in July 1998. The third and final public meeting was held in September 1998. The public was notified of the public meetings through public announcements in the local newspapers and on the local radio station.

### Goals and Objectives

Based on input from the community, the county, and the management team/TAC, a set of goals and objectives were defined for the TSP. These goals and objectives were used to make decisions about various potential improvement projects. They are described in Chapter 2.

# Review and Inventory of Existing Plans, Policies, and Public Facilities

To begin the planning process, all applicable Pilot Rock and Umatilla County transportation and land use plans and policies were reviewed and an inventory of public facilities was conducted. The purpose of these



efforts was to understand the history of transportation planning in the Pilot Rock area, including the street system improvements planned and implemented in the past, and how the City is currently managing its ongoing development. Existing plans and policies are described in Appendix A of this report.

The inventory of existing facilities catalogs the current transportation system. The results of the inventory are described in Chapter 3, while Chapter 4 describes how the system operates. Appendix B summarizes the inventory of the existing arterial and collector street system.

### **Future Transportation System Demands**

The Transportation Planning Rule requires the Transportation System Plan to address a 20-year forecasting period. Future traffic volumes for the existing and committed transportation systems were projected using ODOT's Level 1 - Trending Analysis methodology. The overall travel demand forecasting process is described in Chapter 5.

### **Transportation System Potential Improvements**

Once the travel forecasts were developed, it was possible to evaluate a series of potential transportation system improvements. The evaluation of potential transportation improvements was based on a qualitative review of safety, environmental, socioeconomic and land use impacts, as well as estimated cost. These improvements were developed with the help of the local working group, and they attempt to address the concerns specified in the goals and objectives (Chapter 2). After evaluating the results of the potential improvements analysis, a series of transportation system improvements were selected. These recommended improvements are described in Chapter 6.

### **Transportation System Plan**

The Transportation System Plan addresses each mode of transportation and provides an overall implementation program. The street system plan was developed from the forecasting and potential improvement evaluations described above. The bicycle and pedestrian plans were developed based on current usage, land use patterns, and the requirements set forth by the Transportation Planning Rule. The public transportation, air, water, rail, and pipeline plans were developed based on discussions with the owners and operators of those facilities. Chapter 7 details the plan elements for each mode.

### **Funding Options**

The city of Pilot Rock will need to work with Umatilla County and ODOT to finance new transportation projects over the 20-year planning period. An overview of funding and financing options that might be available to the community are described in Chapter 8.

### Recommended Policies and Ordinances

Suggested Comprehensive Plan policies and implementing zoning and subdivision ordinances are included in Chapter 9. These policies and ordinances are intended to support the TSP and satisfy the requirements of the Transportation Planning Rule (TPR).

### RELATED DOCUMENTS

The city of Pilot Rock TSP addresses the regional and rural transportation needs in the City. There are several other documents that address specific transportation elements or areas in Umatilla County that may directly or indirectly impact transportation elements in and around Pilot Rock.

# Other Transportation System Plans Prepared Concurrently with the Pilot Rock TSP

In addition to the Pilot Rock TSP, seven small city TSPs were prepared in conjunction with the Umatilla County TSP project. These documents include:

- City of Adams TSP
- City of Athena TSP
- City of Echo TSP
- City of Helix TSP
- City of Stanfield TSP
- City of Ukiah TSP
- City of Weston TSP

# Pilot Rock Comprehensive Plan

The Pilot Rock Comprehensive Plan was adopted in 1978, and amended in 1986. The plan provides goals and policies for guiding the future growth and development of the City. Two of the City's 13 goals strongly impact the development of the Transportation System Plan – Goal K: Transportation and Goal J: Public Facilities and Services. The policies enacted by the City in support of these goals are summarized in Appendix A.

### Goal K: Transportation

To provide and encourage a safe, convenient and economic transportation system.

### Applicable Policies

- 1. To repave city streets and provide curbs and sidewalks as resources are available.
- 2. To encourage development and use of alternate means of transportation to the private automobile.
- 3. To work with ODOT to minimize conflicts between through and local traffic on US 395, to reduce traffic hazards and expedite the flow of traffic by limiting access to and from the highway with the Urban Growth Area, and planning for adequate access to property adjacent to the highway.

- 4. To development of good transportation linkages (vehicular, pedestrian, bicycle, etc.) between residential areas and major activity centers.
- 5. To encourage the continuing availability of rail transportation linkages to mainline services. for the industrial area.
- 6. To work with Umatilla County to develop joint policies concerning local roads and streets within the Urban Growth Boundary.
- 7. To adopt the recommendation in the Oregon Department of Transportation Six-Year Highway Improvement Plan that occurs within the Urban Growth Boundary.

### Goal J: Public Facilities and Services

To plan and develop a timely, orderly, and efficient arrangement of public facilities and services to serve as a framework for urban development.

### Applicable Policies

1. To develop, maintain, update, and expand police and fire services, streets and sidewalks, water and sewer systems, and storm drains as necessary to provide adequate facilities and services to the community.

## Pilot Rock Technical Report

The Pilot Rock Technical Report offers background information for the City regarding the natural environment, the socioeconomic environment (including population indicators) and establishment of the Urban Growth Boundary (UGB). The report contains road classifications for roadways through the City. The classifications are listed in the Appendix: Table X, 1997 Major Street Inventory. This report was last revised in 1986. Therefore, much of the data is now outdated. Key findings regarding transportation facilities are summarized in Appendix A of this TSP.

### Pilot Rock Subdivision Ordinance

The city of Pilot Rock Subdivision Ordinance was adopted in 1986. It regulates all subdivisions and partitions of lands, within the city limits. (Umatilla County is responsible for regulating subdivision and partitions outside of the city limits but within the Urban Growth Boundary. However, the City reviews and comments on all plans, plats, or maps for those areas). It also regulates the construction of new or undeveloped streets within the City and Urban Growth Boundary as well as general requirements and design standards for streets including the provision of sidewalks and bicycle facilities to support safe and efficient pedestrian and bicycle mode use. The ordinance explains the Pilot Rock street classifications and street standards and are summarized in Appendix A of this TSP.

#### Pilot Rock Zoning Ordinance

The Pilot Rock Zoning Ordinance was adopted in 1986. The purported purpose of zoning ordinance is as follows:

To promote the public health, safety, and welfare; to encourage the most appropriate use of property within the City; to stabilize and protect the value of property; to provide adequate light and air; to prevent overcrowding; to lessen traffic congestion; to facilitate adequate and economical provision for public improvements, all to implement the Comprehensive Plan of the city of Pilot Rock; to provide a method of administration and to provide penalties for violation of the provision herein.

The Ordinance contains 12 sections. The only section that applies directly to transportation is the section on off-street parking and loading.

### Umatilla County Comprehensive Plan

The Umatilla County Comprehensive Plan was written in 1983 to meet the statewide requirements for planning. It was last amended in 1987. The plan is broken into three sections: the Introduction; Plan Elements – Findings, Recommended Policies; and the Plan Map. The Plan Elements section is broken into sections dealing with the fourteen goals. This includes a Transportation Element with findings and recommended policies.

### Umatilla County Development Code

• The Umatilla County Development Ordinance was adopted in 1983, and last amended in November of 1991. In 1997 this ordinance was recodified and retitled as Chapter 1528 Development Code. The portions of the code most relevant to the Transportation System Plan include sections on off-street parking requirements, driveways, and road standards. Amendments to the development code include road standards for county roads.

### Corridor Strategies

Corridor strategies have been prepared for both US 395 and OR 11.

The US 395 corridor is covered in two studies: the US Highway 395 North (Umatilla-Stanfield) Draft Corridor Strategy and the US Highway 395 South (Pendleton-California Border) Corridor Strategy. The Corridor Strategies were developed to identify projects for the Oregon State Transportation Improvement Program. Generally, the Corridor Strategies translate the policies of the Oregon Transportation Plan (OTP) into specific actions; describe the functions of each transportation mode, consider trade-offs, and show how they will be managed; identify and prioritize improvements for all modes of travel; indicate where improvements should be made; resolve any conflicts with local land use ordinances and plans; and establish guidelines for how transportation plans will be implemented.

The US 395 Corridor Strategies contain a corridor overview, which includes population and employment forecasts, highway data such as traffic volumes and pavement conditions and descriptions of other modes of travel (air, rail, bicycle, etc.). The overall corridor strategy is to, "accommodate efficient movement of through travel, while maintaining environmental integrity, enhancing travel safety and supporting economic development." The reports set forth objectives that are intended to embody this overall strategy for the corridor, and to set direction and provide guidance for corridor-wide transportation plans and improvements.

### **Other State Plans**

In addition to the ODOT corridor strategy, coordination with the following state plans is required:

- Oregon Transportation Plan (1992)
- Oregon Highway Plan (1999)
- Oregon Bicycle and Pedestrian Plan (1995)
- Oregon Public Transportation Plan (1996)
- Oregon Rail Freight Plan (1994)
- Oregon Rail Passenger Policy and Plan (1992)
- Oregon Traffic Safety Action Plan (1995)
- Oregon Aviation System Plan (in development).

### CHAPTER 2: GOALS AND OBJECTIVES

The purpose of the TSP is to provide a guide for the city of Pilot Rock to meet its transportation goals and objectives. The following goals and objectives were developed from information contained in the City's Comprehensive Plan and reflect public concerns as expressed during public meetings. An overall goal was drawn from the plan, along with more specific goals and objectives. Throughout the planning process, each element of the plan was evaluated against these parameters.

### OVERALL TRANSPORTATION GOAL

To provide and encourage a safe, convenient, and economic transportation system.

### Goal 1

Preserve the function, capacity, level of service, and safety of the nearby highways.

### **Objectives**

- A. Develop access management standards.
- B. Develop alternative, parallel routes where practical.
- C. Promote alternative modes of transportation to the private automobile.
- D. Promote transportation demand management programs.
- E. Promote transportation system management.
- F. Develop procedures to minimize impacts and protect transportation facilities, corridors, or sites during the development review process.

### Goal 2

Ensure that the road system within the City is adequate to meet public needs, including those of the transportation disadvantaged.

### **Objectives**

- A. Meet identified maintenance level of service standards on the county and state highway systems.
- B. Repave city streets and provide curbs and sidewalks as resources are available.
- C. Develop and adhere to a five-year road program for maintenance and improvement of the existing city road system.
- D. Review and revise, if necessary, street cross section standards for local, collector, and arterial streets to enhance safety and mobility.

- E. Develop access management strategies with ODOT for US 395 through the Urban Growth Boundary to ensure adequate access to property adjacent to the highway while limiting access to and from the highway.
- F. Develop access management strategies for anywhere else needed.
- G. Evaluate the need for traffic control devices.
- H. Evaluate the safety of the street system and develop plans to mitigate any safety hazards.
- I. Encourage the provision of transportation alternatives for elderly and handicapped citizens.

### Goal 3

Improve coordination among Pilot Rock and nearby cities, the Oregon Department of Transportation (ODOT), the US Forest Service (USFS), the Federal Highway Administration (FHWA), and the county.

### **Objectives**

- A. Work with Umatilla County to coordinate roadway maintenance and improvements and to develop joint policies concerning local roads and streets within the Urban Growth Boundary.
- B. Work with ODOT to minimize conflicts between through and local traffic and reduce traffic hazards on US 395.
- C. Cooperate with ODOT in the implementation of the Statewide Transportation Improvement Program (STIP).
- D. Work with the county in establishing right-of-way needed for new roads identified in the Transportation System Plans.
- E. Take advantage of federal and state highway funding programs.
- F. Consider pooling resources with other cities and the county to provide services that benefit areas both in and outside the City.

#### Goal 4

Increase the use of alternative modes of transportation (walking, bicycling, and public transportation) through improved access, safety, and service.

#### **Objectives**

- A. Cooperate with other cities and the county to create inter-city transit service.
- B. Provide sidewalks or shoulders and safe crossings on collectors and arterials.
- C. Explore opportunities for bicycle facilities and coordinate with the county bicycle planning efforts.
- D. Seek Transportation and Growth Management (TGM) and other funding for projects evaluating and improving the environment for alternative modes of transportation.

# Goal 5

Encourage the continued rail transportation linkage to mainline services.

# Objective

A. Maintain operational status of the Union Pacific rail line.

# CHAPTER 3: TRANSPORTATION SYSTEM INVENTORY

As part of the planning process, David Evans and Associates, Inc., conducted an inventory of the existing transportation system in Pilot Rock. This inventory covered the street system as well as the pedestrian, bikeway, public transportation, rail, air, water, and pipeline systems.

#### STREET SYSTEM

The most common understanding of transportation is of roadways carrying cars and trucks. Most transportation dollars are devoted to building, maintaining, or planning roads to carry automobiles and trucks. The mobility provided by the personal automobile has resulted in a great reliance on this form of transportation. Likewise, the ability of trucks to carry freight to nearly any destination has greatly increased their use.

Encouraging the use of cars and trucks must be balanced against costs, livability factors, the ability to accommodate other modes of transportation, and negative impacts on adjacent land uses; however, the basis of transportation in nearly all American cities is the roadway system. This trend is clearly seen in the existing Pilot Rock transportation system, which consists almost entirely of roadway facilities for cars and trucks. Because of the rural nature of the area, the street system will most likely continue to be the basis of the transportation system for at least the 20-year planning period; therefore, the emphasis of this plan is on improving the existing street system for all users.

The existing street system inventory was conducted for all highways, arterial roadways, and collector roadways within Pilot Rock, as well as those in Umatilla County that are included in the TSP planning area. Inventory elements include:

- Street classification and jurisdiction
- Street width
- Number of travel lanes
- Presence of on-street parking, sidewalks, or bikeways
- Speed limits
- General pavement conditions

Figure 3-1 shows the roadway functional classification and jurisdiction. Appendix B lists the complete inventory.

### Street Classification

The Pilot Rock Technical Report, the background information for the City's Comprehensive Plan, provides functional classifications for the streets within the City. The Technical Report is not adopted as part of the Comprehensive Plan, but remains the supporting document that is subject to revisions as new technical data become available. When new data indicate that the City's plan should be revised, amendments to the technical report shall be made.

The Pilot Rock Technical Report designates streets within the City as arterials, major collectors or minor collectors. All streets not classified are assumed to be local streets. No definitions are provided for the street classifications. There is some inconsistency with the Pilot Rock Zoning Ordinance which classifies (but does not designate) streets as arterials, collectors, local streets, cul-de-sacs, alleys, and marginal access streets. The zoning ordinance also provides definitions for these roadway classifications, as well as road

design standards. DEA will recommend a consistent street classification system, including definitions and roadway design standards, as part of the development of this TSP.

Typically, a city the size of Pilot Rock would classify streets as either arterials, collectors, or local streets. Definitions for these classifications are provided below. Based on conditions observed during the field reconnaissance (traffic volumes, street widths, etc.), DEA verified the classification of the streets classified in the Pilot Rock Technical Report, as described below. The roadway classifications shown in Figure 3-1 reflect the classifications as designated in the Pilot Rock Technical Report. The inventory includes city, county, and state roadways.

#### Arterials

Arterials form the primary roadway network within and through a region. They provide a continuous road system that distributes traffic between cities, neighborhoods, and districts. Generally, arterials are high capacity roadways that carry high traffic volumes entering or leaving the City.

In Pilot Rock, there is one street which functions as an arterial: US 395 (also called Pendleton-John Day Highway). This roadway serves as the focus for most of the commercial development in the City.

#### **Collectors**

Collectors serve traffic within the commercial, industrial, and residential neighborhood areas. They connect local neighborhoods or districts to the arterial network. Collectors help form part of the grid system; however, they are not intended to function as alternate routes to the arterial system.

The Pilot Rock Technical Report classified six streets as <u>major</u> collectors: NW Cedar Street, Birch Street, Main Street (east of US 395), Alder Street (between Main Street and US 395), and 4th Street/Stewart Creek Road,.

Seven streets were classified as <u>minor</u> collectors: Delwood Street (south of 2nd Street), 2nd Street (west of US 395), Alder Street, SE 5th Street, Cherry Street, Elm Street, and Delwood Place. Field reconnaissance by DEA indicated that Delwood Place is currently a dirt road and does not function as a collector, therefore it is not shown as a collector on Figure 3-1.

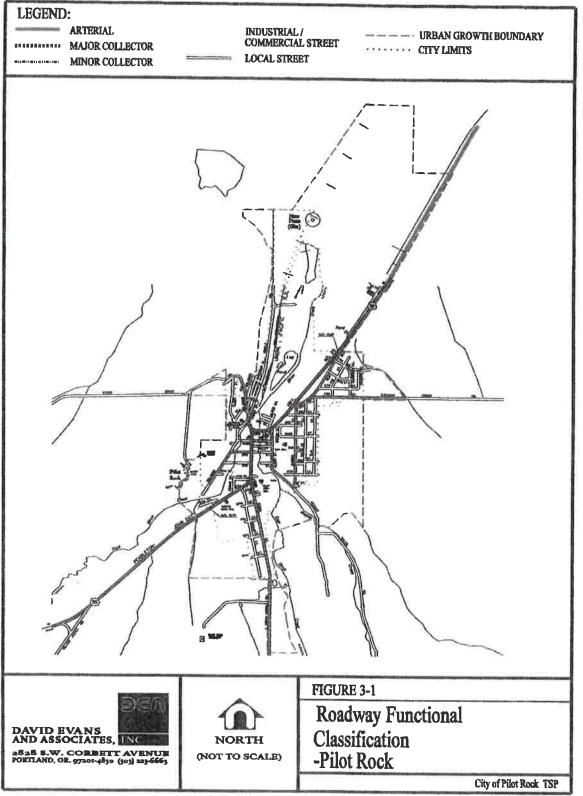
#### **Local Streets**

Local streets provide access to all parcels of land and serve travel over relatively short distances. They are designed to carry the very low traffic volumes associated with the local uses which abut them. Through traffic movements are discouraged on local streets.

The local streets in Pilot Rock are comprised of all streets not classified as either arterials or collectors.

### Street Layout

The development of the Pilot Rock street system is constricted by natural hazards. Pilot Rock is situated at the confluence of three creeks. East and West Birch Creek come together just north of the downtown area and form Birch Creek. Also, Wegner Creek flows into East Birch Creek near the south city limits. In addition, the



basalt rock formation on the west side of the City has steep slopes which constrain development. For these reasons, the City did not develop in a regular grid pattern, although there are small sections of the City which are laid out in a grid. The City also contains many discontinuous, or dead-end, streets due to a lack of vehicular bridges over the creeks; however; there are many useful pedestrian bridges over the creeks, which connect the dead-end streets. US 395 is the main arterial through the City and runs north-south, connecting Pilot Rock to Ukiah to the south, and to Pendleton to the north.

### State Highways

Discussion of the Pilot Rock street system must include the state highways that traverse the planning area. Although Pilot Rock has no direct control over the state highways, adjacent development and local traffic patterns are heavily influenced by the highways. Pilot Rock is served by one state highway, US 395. This highway serves as the major route through the City with commercial and industrial development focused along its corridor.

The 1999 Oregon Highway Plan (OHP) classifies the state highway system into five categories: Interstate, Statewide, Regional, District, and Local Interest. ODOT has established primary and secondary functions for each type of highway and objectives for managing the operations for each one.

### **US 395**

US 395 between Pendleton and John Day running through the city of Pilot Rock is classified as a State Highway. According to the 1999 OHP, the primary function of a State Highway is to "provide connections and links to larger urban areas, ports, and major recreation areas that are not directly served by interstate highways." The management objective for statewide highways is to provide for safe and efficient high-speed, continuous-flow operation in rural areas and high- to moderate-speed operations with limited interruptions of flow in urban and urbanizing areas. This means that design factors such as controlling access and providing passing lanes are of primary importance.

The stretch of US 395 between Pendleton and John Day is also known as the *Pendleton – John Day Highway* and is a State Highway. Beginning in Pendleton at the I-84 junction and extending south through Pilot Rock to John Day, it ends at the California State border. The rural stretch of highway is primarily two lanes with a speed limit of 55 mph, except within the Pilot Rock city limits where the highway is two to four lanes and traffic is subject to lower speeds varying between 25 and 45 mph with 20 mph school zones. US 395 traverses Pilot Rock from north to south and serves as the major route through the City with commercial and industrial development focused along its corridor.

In 1997, an ODOT study team and Corridor Management Team developed the US 395 South (Pendleton-California Border) Draft Corridor Strategy, an overall corridor strategy and objectives for managing, operating, and improving the transportation corridor between Pendleton and California over the next 20 years. The Corridor Strategy was developed to identify projects for the Oregon STIP. Development of the US 395 South Corridor Strategy is the first step in the corridor planning process. Corridor planning is intended to implement the goals and policies set for the by the 1992 Oregon Transportation Plan (OTP), the 1999 Highway Plan, and the recent modal plans for rail, freight, bike/pedestrian, aviation, and public transportation plus the safety action plan.

Generally, the Corridor Strategy translates the policies of the OTP into specific actions; describes the functions of each transportation mode, considers trade-offs, and shows how they will be managed; identifies and prioritizes improvements for all modes of travel; indicates where improvements should be made;

resolves any conflicts with local land use ordinances and plans; and establishes guidelines for how transportation plans will be implemented.

The US 395 South Corridor Strategy contains a corridor overview, which includes population and employment forecasts, highway data such as traffic volumes and pavement conditions and descriptions of other modes of travel (air, rail, bicycle, etc.). The overall corridor strategy is to accommodate efficient movement of through travel, while maintaining environmental integrity, enhancing travel safety and supporting economic development. The report sets forth objectives that are intended to embody this overall strategy for the corridor, and sets direction and provides guidance for corridor-wide transportation plans and improvements.

The US 395 South Corridor Strategy will be followed-up by the US 395 South Corridor Plan which will build upon objectives developed in the Strategy to identify, refine, and facilitate the acceptance of specific decisions related to corridor transportation management, capital improvements and service improvements. The Corridor Plan will identify and discuss the decisions considered to meet each objective, technical analysis of alternatives, and recommendations for action.

### GENERAL PAVEMENT CONDITIONS

### **City Streets**

The ODOT Pavements Unit published a 1994 report entitled, Pavement Rating Workshop, Non-National Highway System. This report thoroughly defines the characteristics that pavements must display to be categorized as Very Good and so on. The report also provides color photographs of roadways that display these characteristics, which aids in field investigation and rating of pavement condition. These established guidelines were employed by DEA in conducting a subjective evaluation of pavement condition for all collectors within the city of Pilot Rock.

An inventory of the City's collectors, conducted by DEA in November 1997, indicated that pavement on Birch Street, Cedar Street, Stewart Creek Road/4<sup>th</sup> Street and Elm Street is in fair condition, where pavement on Alder Street and Cherry Street is in poor condition.

### State Highways

The Oregon Department of Transportation's (ODOT's) Pavement Unit surveys the state highway system on an annual basis. Observed severity levels of certain distress types are used to determine a pavement condition rating score. These scores are used to stratify pavement segments into five condition categories: (1) Very Good, (2) Good, (3) Fair, (4) Poor, and (5) Very Poor. The *Umatilla County Transportation System Plan* briefly defines these condition categories.

The section of US 395 extending through Pilot Rock was repaved in 2000 and is in very good condition.

#### **BRIDGES**

The Oregon Department of Transportation maintains an up to date inventory and appraisal of Oregon bridges. Part of this inventory involves the evaluation of three mutually exclusive elements of bridges. One element identifies which bridges are structurally deficient. This is determined based on the condition rating

for the deck, superstructure, substructure, or culvert and retaining walls. It may also be based on the appraisal rating of the structural condition or waterway adequacy. Another element identifies which bridges are functionally obsolete. This element is determined based on the appraisal rating for the deck geometry, under-clearances, approach roadway alignment, structural condition, or waterway adequacy. The third element summarizes the sufficiency ratings for all bridges. The sufficiency rating is a complex formula which takes into account four separate factors to obtain a numeric value rating the ability of a bridge to service demand. The scale ranges from 0 to 100 with higher ratings indicating optimal conditions and lower ratings indicating insufficiency. Bridges with ratings under 55 may be nearing a structurally deficient condition.

There are a total of five bridges within the city of Pilot Rock; three are city-owned and maintained, one is county owned and maintained, with the remaining bridge along US 395 under state jurisdiction. These bridges are all structurally sound.

#### PEDESTRIAN SYSTEM

The most basic transportation option is walking. Walking is the most popular form of exercise in the United States and can be performed by people of all ages and all income levels. However, it is not often considered as a means of travel. Because pedestrian facilities are generally an afterthought, they are not planned as an essential component of the transportation system.

The relatively small size of Pilot Rock indicates that walking could be employed regularly, weather permitting, to reach a variety of destinations. Encouraging pedestrian activities may not only decrease the use of the personal automobile but may also provide benefits for retail businesses. Where people find it safe, convenient, and pleasant to walk, they may linger and take notice of shops overlooked before. They may also feel inclined to return to renew the pleasant experience time and again.

The sidewalk system in the core of Pilot Rock is relatively complete. Sidewalks exist on the east and west side of US 395 between 4th Place and Main Street Sidewalk exists along the west side of the highway, between 4th Street and Main Street. Main Street has sidewalks on both sides between the pedestrian bridge West Birch Creek and Alder Street. Sidewalks exist on the west side of Alder Street from Main Street to just south of 5th Street. Short sections of sidewalk exist on 2nd Street and 3rd Street, west of US 395, but most are in poor condition. Curb cuts for wheelchair access are largely lacking even where sidewalks exist. There are some locations were there are built-up curb ramps; however, they are too steep to meet Americans with Disabilities Act (ADA) requirements. Crosswalks exist at the intersections of US 395 and 3rd Street, US 395 and Main Street and US 395 and Alder Drive. The complete pedestrian system inventory is shown in Figure 3-2.

#### **BIKEWAY SYSTEM**

Like pedestrians, bicyclists are often overlooked when considering transportation facilities. Bicycles are not often considered as a serious mode of transportation. However, cycling is a very efficient mode of travel. Bicycles take up little space on the road or parked, do not contribute to air or noise pollution, and offer relatively higher speeds than walking. Because of the small size of Pilot Rock, a cyclist can travel to any destination in town within a matter of minutes.

Bicycling should be encouraged for short trips in order to reduce some of the negative aspects of urban growth and automobile use. Noise, air pollution, and traffic congestion could be mitigated if more short trips were taken by bicycle or on foot. Typically, a short trip that would be taken by bicycle is around two miles; on foot, the distance commonly walked is around one-half mile.

Pilot Rock currently has sanctioned bikeways in the northern part of town on two streets, Cedar Street and US 395. The bike lane on Cedar Street is 6 feet wide and roughly a mile long, running north on the west side of the street from the intersection with Delwood Street to the last mill near the city limits. The other bike lane is also 6 feet wide. It is located on the east side of US 395 from the intersection with Alder Street north to the intersection with 4th Street. On the rest of the city's streets, bicyclists must share the roadways with motorized vehicles. On low volume roadways, such as many of the local streets, bicyclists and automobiles can both safely and easily use the roadway. On higher volume roadways, particularly US 395, safety for the bicyclists is an important issue.

An impediment to bicycle use is the lack of parking and storage facilities for bikes throughout the city of Pilot Rock.

#### PUBLIC TRANSPORTATION

The only intercity bus service in Umatilla County is provided by Greyhound bus lines which provides service along I-84, US 395, and OR 11 within Umatilla County. Greyhound has terminals located in Hermiston and Pendleton that connect these cities to each other and major population centers outside of the county. The Hermiston terminal has two departures heading southeast (with stops in Pendleton, La Grande, Boise, and Salt Lake City); three buses running west to Portland; and two buses heading north on US 395 to Pasco and Spokane daily. The Pendleton terminal has three departures southeast (with stops in La Grande, Boise and Salt Lake City); three departures west to Portland; and two departures north to Seattle via Walla Walla, Pasco, and Spokane daily. The line to Seattle could serve Milton-Freewater as it runs through the City along OR 11.

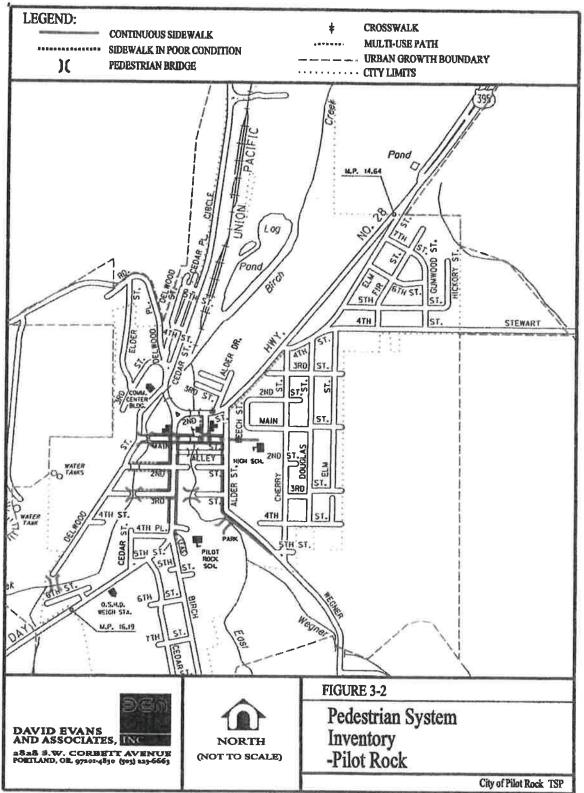
Pilot Rock has a dial-a-ride type service available for the transportation disadvantaged. Dial-a-ride service is defined as door-to-door service initiated by a user's request for transportation service from their origins to specific locations on an immediate or advance reservation basis. This service is provided by the Pilot Rock Lions Club.

Pilot Rock has no local fixed-route transit service at this time. The small size and low traffic volumes on city streets indicate that mass transit is not necessary or economically feasible at this time. The Transportation Planning Rule exempts cities with a population of less than 25,000 from developing a transit system plan or a transit feasibility study as part of their Transportation System Plans.

### RAIL SERVICE

Pilot Rock has freight rail service. Until recently, AMTRAK service was available in Hermiston and Pendleton along the rail line that follows the I-84 corridor from Portland to Boise, Idaho and points east. Amtrak is currently experiencing a funding crisis. As a result, passenger service between Portland and Denver, including service to cities within Umatilla County, was discontinued in May 1997. This line serves only freight traffic now.

The Union Pacific Railroad right-of-way runs northeast to southwest into the UGB and city limits stopping just north of downtown. This rail line carries freight between Pilot Rock and Pendleton one to two times per week. The line connects to the Union Pacific main line that runs through Pendleton. In addition to this line, there are two nearby lines. A major freight line owned and operated by Union Pacific Railroad, a Class I line-haul freight railroad, stops in Hermiston. Also, a limited rail service exists between Milton-Freewater and Weston on the Blue Mountain Railroad consisting of one freight train per day (maximum) or some local switching.



### AIR SERVICE

The city of Pilot Rock is served by Eastern Oregon Regional Airport in Pendleton, which is approximately 20 miles north of Pilot Rock and by Hermiston Municipal Airport, which is approximately 40 miles northwest of Pilot Rock.

Eastern Oregon Regional Airport in Pendleton is a tower controlled airport with 40,600 annual operations. Passenger service includes 16 scheduled flights per day by Horizon Airlines, with flights to Portland and Seattle. The airfield is also home to 60 locally owned fixed-wing aircraft, 4 rotor, and 8 CH-47 Chinook helicopters with the Oregon Army Air Guard.

The city of Hermiston owns and operates a municipal airport. No commercial flights are available at the present time, but there is charter service available. The Hermiston Municipal Airport is located 1.5 miles from downtown Hermiston and had 12,380 annual operations in 1995. The airport is at an elevation of 641 feet above Mean Sea Level and has one runway which is 4,500 feet long and positioned in a northeast-southwest direction. The airport is often used by businesses such as Simplot, Gilroy Foods, Les Schwab Tires, UPS, and other large organizations such as PGE, Bonneville Power, and the Army Corps of Engineers. There is an agricultural spray operation based at the airport, and local residents also use the airport for recreational purposes.

### PIPELINE SERVICE

Although not often considered transportation facilities, pipelines carry liquids and gases very efficiently. The use of pipelines can greatly reduce the number of trucks and rail cars carrying fluids such as natural gas, oil, and gasoline. Cascade Natural Gas uses these lines to provide natural gas service to Pilot Rock residents.

### WATER TRANSPORTATION

Pilot Rock has no water transportation services. The nearest commercial port is the Port of Umatilla located in the northwest corner of the county along the Columbia River.

## CHAPTER 4: CURRENT TRANSPORTATION CONDITIONS

As part of the planning process, the current operating conditions for the transportation system were evaluated. This evaluation focused primarily on street system operating conditions since the automobile is by far the dominant mode of transportation in Pilot Rock. Census data were examined to determine travel mode distributions. Traffic counts were used to determine how well traffic is currently flowing.

### TRAFFIC VOLUMES

Historic traffic volume counts, documented in the ODOT Traffic Volume Tables, exist for US 395 in Pilot Rock.

## Average Daily Traffic

The Average Daily Traffic (ADT) volumes on US 395 in Pilot Rock are shown in Figure 4-1. Traffic volumes are highest on US 395 in the center of town (between Second Street and Main Street), at 4,400 vehicles per day (vpd). Traffic volumes on US 395 range from 2,100 vpd to 3,700 vpd in the rest of the urbanized and drop off dramatically outside the urbanized area. US 395 volumes are approximately 1,300 vpd at the south city limit and approximately 3,100 at the north city limit. Traffic volumes on US 395 in Pilot Rock have seen little growth since 1990. Some locations showed an average annual growth rate of 2 to 3 percent per year; however, other locations reported lower average daily traffic volumes in 1996 than in 1990.

The traffic volumes shown on Figure 4-1 and other volume figures are average volumes for the year. Summer is the season when volumes are highest. ODOT data on US 395 west of Pilot Rock indicate that during the summer season, volumes are about 25 percent higher than average volumes.

No other daily or hourly traffic data were available for the city streets in Pilot Rock, nor were any counts taken. Because the daily volumes on US 395 in the City were fairly low, traffic volumes on the other city streets were expected to be very low, and capacity deficiencies on city streets do not appear to be an issue in Pilot Rock.

### **Street Capacity**

Transportation engineers have established various standards for measuring traffic capacity of roadways or intersections. Each standard is associated with a particular level of service (LOS). The LOS concept requires consideration of factors that include travel speed, delay, frequency of interruptions in traffic flow, relative freedom for traffic maneuvers, driving comfort and convenience, and operating cost. In the 1991 OHP, levels of service were defined by a letter grade from A-F, with each grade representing a range of volume to capacity (v/c) ratios. A volume to capacity ratio (v/c) is the peak hour traffic volume on a highway divided by the maximum volume that the highway can handle. If traffic volume entering a highway section exceeds the section's capacity, then disruptions in traffic flow will occur, reducing the level of service. LOS A represents relatively free-flowing traffic and LOS F represents conditions where the street system is totally saturated with traffic and movement is very difficult. The 1999 OHP maintains a similar concept for measuring highway performance, but represents LOS by specific v/c ratios to improve clarity and ease of implementation. Table 4-1 presents the level of service criteria for arterial roadways.

TABLE 4-1 LEVEL OF SERVICE CRITERIA FOR ARTERIAL AND COLLECTOR STREETS

Service Level <sup>(1)</sup> (v/c Ratio) <sup>(2)</sup>	Typical Traffic Flow Conditions
A (0.00-0.48)	Relatively free flow of traffic with some stops at signalized or stop sign controlled intersections. Average speeds would be at least 30 miles per hour.
B (0.49-0.59)	Stable traffic flow with slight delays at signalized or stop sign controlled intersections. Average speed would vary between 25 and 30 miles per hour.
C (0.60-0.69)	Stable traffic flow with delays at signalized or stop sign controlled intersections. Delays are
C-D (0.70-0.73)	greater than at level B but still acceptable to the motorist. The average speeds would vary between 20 and 25 miles per hour.
D (0.74-0.83)	Traffic flow would approach unstable operating conditions. Delays at signalized or stop sign
D-E (0.84-0.87)	controlled intersections would be tolerable and could include waiting through several signal cycles for some motorists. The average speed would vary between 15 and 20 miles per hour.
E (0.84-0.97)	Traffic flow would be unstable with congestion and intolerable delays to motorists. The average
E-F (0.98-0.99)	speed would be approximately 10 to 15 miles per hour.
F (≥1.00)	Traffic flow would be forced and jammed with stop and go operating conditions and intolerable delays. The average speed would be less than 10 miles per hour.

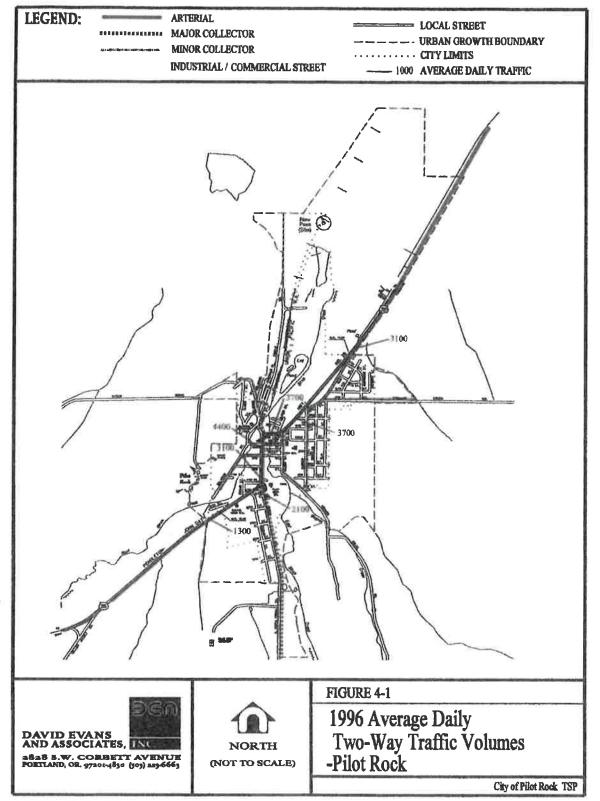
Source: (1) Transportation Research Board, Highway Capacity Manual, Special Report 209. National Research Council, 1985.

(2) ODOT, SIGCAP Users Manual. ODOT, 1994.

The 1999 Oregon Highway Plan (OHP) establishes mobility standards for the state highway system<sup>1</sup>. Highways of statewide importance, such as US 395, should operate at a v/c ratio of 0.80where the average speeds are less than 45 mph in urban and urbanizing areas inside the urban growth boundary.

The traffic operation was determined at a representative intersection (Cedar Street) along US 395 using the 1985 Highway Capacity Software for unsignalized intersections. This software is based on the 1985 Highway Capacity Manual, Special Report 209, published by the Transportation Research Board. Since all intersecting streets and driveways are controlled by stop signs in the City, the analysis was performed for an unsignalized intersection. The peak hour traffic on the highway was assumed to be 10 percent of the 24-hour ADT volume and the directional split was assumed to be 60/40. Because side street traffic volumes were unavailable, an assumed volume of 100 vph was used and unsignalized intersection level-of-service calculations were made for the intersection. The peak hour operations at the intersection are shown in Table 4-2.

<sup>&</sup>lt;sup>1</sup>1999 Oregon Highway Plan, Table 6. MAXIMUM VOLUME TO CAPACITY RATIOS OUTSIDE METRO.



## TABLE 4-2 SUMMARY OF OPERATIONS AT US 395 AND CEDAR STREET

Location	Movement	1996 LOS (v/c)
US 395 and Cedar Street	Northbound; Left	A (<0.48)
	Eastbound; Left, Right	A(<0.48)

Note: The level of service is shown for all evaluated movements of the unsignalized intersection.

In general, the intersection currently operates very well at LOS A (v/c ratio less than 0.48). Traffic on the arterial streets flow smoothly and the northbound left turn at this T-intersection. These left-turn movement levels of service correlate to maximum v/c ratios of less than 0.48.

#### TRANSPORTATION DEMAND MANAGEMENT MEASURES

In addition to inventorying the transportation facilities in Pilot Rock, an inventory was performed of any Transportation Demand Management (TDM) strategies that may currently be in place. TDM strategies are designed to relieve congestion on the street system by spreading peak hour traffic over a longer period of time, encouraging the use of alternative modes of transportation (i.e. sidewalks, bike lanes, public transit), and encouraging the single car driver to ride with others through local carpool programs. Other than the sidewalk and bicycle facilities that exist in Pilot Rock, no formal TDM strategies exist in the City.

This following sections briefly describe two elements that may impact future transportation demand management decisions in the City: 1) distribution of departure time to work, and 2) distribution of travel modes.

### **Alternative Work Schedules**

One way to maximize the use of the existing transportation system is to spread peak traffic demand over several hours instead of a single hour. Statistics from the 1990 Census show the spread of departure to work times over a 24-hour period (see Table 4-3). Morning to work trips are spread over a wider time period than is the case for most Oregon cities. Approximately 45 percent of the total employees (those not working at home) depart for work between 6:00 and 8:00 a.m. Another 23 percent depart in either the hour before or the hour after the peak. Therefore, over two-thirds of all morning commute trips occur between 5:00 a.m. and 9:00 a.m.

TABLE 4-3
DEPARTURE TO WORK DISTRIBUTION

	1990 Census			
Departure Time	Trips	Percent		
12:00 a.m. to 4:59 a.m.	45	7.5%		
5:00 a.m. to 5:59 a.m.	98	16.2%		
6:00 a.m. to 6:59 a.m.	136	22.5%		
7:00 a.m. to 7:59 a.m.	138	22.8%		
8:00 a.m. to 8:59 a.m.	42	7.0%		
9:00 a.m. to 9:59 a.m.	11	1.8%		
10:00 a.m. to 10:59 a.m.	6	1.0%		
11:00 a.m. to 11:59 a.m.	0	0%		
12:00 p.m. to 3:59 p.m.	91	15.1%		
4:00 p.m. to 11:59 p.m.	37	6.1%		
Total	604	100.0%		

Source: US Bureau of Census.

Assuming an average nine-hour workday, the corresponding afternoon peak can be determined for work trips. Using this methodology, the peak work travel hour would occur between 3:00 and 5:00 p.m. which, in many cases, corresponds with the peak hour of measured traffic volumes.

### **Travel Mode Distribution**

Although the automobile is the primary mode of travel for most residents in the Pilot Rock area, some other modes are used as well. Modal split data is not available for all types of trips. The 1990 Census statistics that were reported for journey to work trips are shown in Table 4-4 and reflect the predominant use of the automobile in this area.

In 1990, 90.3 percent of all trips to work were in a private vehicle (auto, van, or truck). Trips in single-occupancy vehicles made-up 90.1 percent of these trips, and carpooling accounted for 9.9 percent.

The 1990 census data indicated that bicycles were not utilized for transportation. Since the census data do not include trips to school or other non-work activities, overall bicycle usage may be greater. Two roadways in northern Pilot Rock include dedicated bicycle lanes. Dedicated bicycle lanes can encourage bicycle commuting, as can other facilities such as bicycle parking, showers, and locker facilities.

Pedestrian activity was average (4.6 percent of trips to work) in 1990. Statewide, 4.2 percent of trips to work were made on foot. Again, the census data only report trips to work; trips to school or other non-work activities are not included.

TABLE 4-4 JOURNEY TO WORK TRIPS

	1990 Census		
Trip Type	Trips	Percen	
Private Vehicle	567	90.3%	
Drove Alone	511	90.1%	
Carpooled	56	9.9%	
Public Transportation	0	0%	
Motorcycle	0	0%	
Bicycle	0	0%	
Walk	29	4.6%	
Other	8	1.3%	
Work at Home	24	3.8%	
Total	628	100.0%	

Source: US Bureau of Census.

### **ACCIDENT ANALYSIS**

The Oregon Department of Transportation (ODOT) collects detailed accident information on an annual basis along US 395 (Pendleton-John Day Highway) within the Pilot Rock city limits (MP 14.64 to MP 16.19). The accident information data show overall accident rates for the routes and accident locations. The accident rate for a stretch of roadway is typically calculated as the number of accidents per million vehicle miles traveled along that segment of roadway.

### Historic

Table 4-5 shows the accident rates for US 395 in Pilot Rock as well as the Oregon statewide average for urban non-freeway primary state highways from January 1, 1994 to December 31, 1996. The accident rates for US 395 during 1994 and 1995 are substantially lower than the statewide average for similar highways. The 1996 accident rate slightly exceeds the statewide average.

TABLE 4-5
HISTORIC ACCIDENT RATES FOR STATE HIGHWAYS
(ACCIDENTS PER MILLION VEHICLE MILES TRAVELED)

Highway	1996	1995	1994
US 395 in Pilot Rock	3.64	0.71	1.42
Average for all Urban Non-freeway Primary State Highways	3.63	3.98	3.45

Source: Oregon Department of Transportation Accident Rate Tables.

Table 4-6 contains detailed accident information on US 395 in Pilot Rock from January 1, 1994 to December 31, 1996. It shows the number of fatalities and injuries, property damage only accidents, the total number of accidents, and the overall accident frequencies and rates for the segments of these roadways in Pilot Rock.

# TABLE 4-6 ACCIDENT SUMMARY FOR US 395 (JANUARY 1, 1994 TO DECEMBER 31, 1996)

Location	Fatalities	Injuries	Property Damage Only	Total Accidents	Accident Frequency (acc/mi/yr)	Accident Rate (acc/mvm)
MP 14.59 to MP 16.19	1	4	4	8	1.67	1.92

Source: Oregon Department of Transportation Accident Summary Database Investigative Report.

During the three-year period, there were a total of eight accidents, four of which were reported as resulting in property damage only. There was one fatality and four injuries on this roadway segment during the period. Five of the accidents occurred at intersections and three occurred on wet or icy pavement. The accidents were scattered along the roadway segment and overall, there were no definitive patterns in the accident locations, types or causes. There is no evidence to suggest that intersection operations (signals, signing, striping, etc.) were a contributing factor in any of the accidents.

# **CHAPTER 5: TRAVEL FORECASTS**

The traffic volume forecasts for Umatilla County and its municipalities are based on historic growth of the state highway system taking into account historic and projected population growth. Forecasts were only prepared for the state highway system in the county, since the volumes on these roadways are much higher than on any of the county roads.

### LAND USE

Land use and population growth plays an important part in projecting future traffic volumes. Population forecasts were developed to help determine future transportation needs since the amount of growth and where it occurs will affect traffic and transportation facilities in the study area. The population analysis presented here is not intended to provide a complete economic forecast or housing analysis, and it should not be used for any purpose other than that for which it was designed.

The population projections for Umatilla County are based on historic growth rates, the original population and employment forecasts made by the State of Oregon Office of Economic Analysis (OEA), and a recent study <sup>1</sup> identifying new economically-driven factors that will result in a higher population total than what was initially projected in the DEA forecast.

Historic and projected population estimates for Umatilla County, Pilot Rock, and seven other cities in the county are summarized in Table 5-1. Factors that will affect the future growth rates of the county and incorporated cities include employment opportunities, available land area for development, and community efforts to manage growth.

TABLE 5-1 UMATILLA COUNTY POPULATION TRENDS

	19701	1980¹	1990'	1996¹ Estimate	2017 <sup>2</sup> Projected
Umatilla County	44,923	58,855	59,249	65,500	80,073
Incorporated Cities					
Pilot Rock	1,612	1,630	1,478	1,570	1,650
Adams	219	240	223	260	310
Athena	872	965	997	1,105	1,360
Echo	479	624	499	530	660
Helix	152	155	150	185	230
Stanfield	891	1,568	1,568	1,755	2,490
Ukiah	NA	249	250	280	340
Weston	660	719	606	680	730

#### Sources:

1) Portland State University Center for Population Research and Census.

2) The population forecast shown for the county has been officially adopted, however there is no official breakdown in population for the incorporated cities in the county. The projected population numbers shown for the eight cities are based on the initial OEA forecast, solely for the purpose of producing travel forecasts for these cities.

<sup>&</sup>lt;sup>1</sup> Umatilla County Population Analysis, December 16, 1998, produced by David Evans and Associates, Inc.

Umatilla County recently worked with the OEA to increase the official population projections for the county. Even though higher estimates have been adopted for the county than were used for the forecasting in this document, the new estimates will not impact travel projections for the TSP. This is because travel forecasts are based primarily on historic traffic levels taking into account population and land use. The difference between the original estimates and new official estimates is not great enough to impact travel projections.

A detailed description of existing and future land use projections, including the methodology and data sources used, is contained in the Umatilla County Population Analysis located in Appendix C. This appendix contains both the original estimates of the OEA and the new official estimates for the county.

As mentioned, Umatilla County has adopted new population estimates for the county as a whole. The new estimates have been disaggregated to determine how much growth is likely to occur in each city.

### **Historic Growth**

The population of Umatilla County has grown since the 1970s, with significantly slower growth in the 1980s, reflecting a general slowdown in the state's economy. Helix, Pilot Rock, and Weston actually experienced a net population loss between 1970 and 1990. Pilot Rock did grow between 1970 and 1980, but population losses in the 1980's reduced its population by 10 percent from the 1970 census figures. Other communities saw similar growth, but did not experience any losses for 1980 to 1990. In Stanfield, the number of people nearly doubled between 1970 and 1980. This population growth may have been fueled by some significant housing developments and the location of several food processing plants in Stanfield during this time.

Estimated at 65,500 in 1997, the population of Umatilla County has grown relatively rapidly since the 1990 Census, with an average annual growth rate of 1.44 percent. Most of the jurisdictions in Umatilla County have grown at a healthy rate, comparable to the annual growth rate of 1.44 percent for the county overall.. Since 1990, Pilot Rock has grown at a slightly slower rate than the rest of the county at 1.0 percent per year..

## **Projected Growth**

The State Office of Economic Analysis prepared long-term population projections by county, but since the county has not yet allocated adopted population numbers to incorporated cities, preliminary population forecasts for the jurisdictions of Adams, Athena, Echo, Helix, Pilot Rock, Stanfield, Ukiah, and Weston were developed in five-year increments based on the initial OEA population forecast. (See Umatilla County Population Discussion – Appendix C.) This was done only for the purpose of producing the future traffic forecast and should not be used for anything other then the intended purpose.

The population forecast for Pilot Rock projects continued growth, although at a significantly slower rate than it experienced in the 1990's. It should maintain an average growth rate of .3 percent, which will increase its population to 1650 people in the next 20 years, which is an increase of 80 people since 1996 (Table 5-1).

Overall, Umatilla County is also expected to experience healthy rates of population growth, averaging nearly one percent annually over the next 20 years. The western portion of Umatilla County is expected to grow faster than the rest of Umatilla County,. However, like much of rural Oregon, the economy of Umatilla

County remains largely seasonal, with nearly one-quarter of all employment agriculture-based. This makes population projections difficult, and are not likely to be as stable as the forecasts imply.

### TRAFFIC VOLUMES

Traffic volume projections for the year 2018 are based on historic growth trends of highway volumes taking into account current and future land use projections.

#### Historic

Before projecting future traffic growth, it is important to examine past growth trends on the Pilot Rock roadway system. Historic data are only available for the state highway system in Pilot Rock; however, this highway carries far more traffic than any other roads in the City. The Oregon Department of Transportation (ODOT) collects traffic count data on the state highways (rural and urban sections) every year at the same locations. These counts have been conducted at seven locations on US 395 (Pendleton-John Day Highway) in Pilot Rock.

Historical growth trends on US 395 in and around Pilot Rock were established using the average annual daily traffic (AADT) volume information presented in the ODOT Traffic Volume Tables for the years 1976 through 1996. The AADT volumes were obtained for each of these years at selected locations along the highway. Using a linear regression analysis of the average AADT volumes between 1976 and 1996, an average annual growth rate was determined. Table 5-2 summarizes the historic average growth rate on each of these sections.

TABLE 5-2 HISTORIC TRAFFIC GROWTH RATES ON STATE HIGHWAYS

Highway Section	Average Annual Growth Rate 1976- 1996	Total Growth 1976-1996
US 395 (Pendleton-John Day Hwy)		
Rural section- Pendleton to Pilot Rock	1.45%	33.3%
Pilot Rock- north city limits	1.18%	26.5%
Pilot Rock- 0.01 miles south of 3rd Street	-0.69%	-12.9%
Pilot Rock- south city limits	1.63%	38.3%
Rural section- Pilot Rock to Long Creek	2.04%	49.7%

Source: ODOT 1976-1996 Transportation Volume Tables; information compiled by DEA.

Based on volumes from ODOT's annual count locations over the 20-year period from 1976 to 1996, the average annual growth rate on US 395 in Pilot Rock has ranged from approximately -0.7 to 1.6 percent per year. On the rural section of the highway north of Pilot Rock, traffic has been growing at a rate of approximately 2.1 percent per year. South of Pilot Rock, traffic has also been growing at a rate of nearly 2.1 percent per year. In general, the increase in the number of trips over the 20-year period considered is highest north of Pilot Rock and lowest south of Pilot Rock. The higher growth rates at the south city limits and on the southern rural section from Pilot Rock to Long Creek are somewhat misleading since these locations experienced the smallest net increases in the number of trips; however, these locations experience low traffic volumes so the small increases in trips resulted in a higher percentage of the location's base year trips.

Traffic growth on US 395 in Pilot Rock averaged 0.61 percent per year over the last 20 years. Although modest, traffic growth between 1976 and 1996 exceeded the population growth in Pilot Rock itself, which was negative during that period. Pilot Rock experienced a growth spurt between 1990 and 1996 where

population growth averaged 1.0 percent per year (the result of an increase of 92 residents over the six years); however, traffic volumes on the highway grew at less than 1 percent per year during that period. Typically, the rate of traffic growth exceeds that of population growth, as it did over the past 20 years; however, that has not been the case in Pilot Rock since 1990.

### **Future Traffic Volumes**

Based on the official OEA estimates for the county, the population in Pilot Rock is forecast to grow at a rate of 0.3 percent per year over the next 20 years. It was decided that the most appropriate growth rate to project future traffic is that rate which was calculated from the historic traffic growth and not those rates which were calculated from the historic and future population forecasts. Using the same linear regression analysis used to calculate the historic growth rate of traffic, forecasts were made for the years 1996 through 2018. Traffic volumes are expected to grow at a rate of 0.61 percent per year (14.3 percent by the year 2018) to 3,085 vpd on the highway. This estimate is consistent with the traffic forecasts in the *Corridor Strategy of US Highway 395 South (Pendleton-California Border)*.

It is important to note that using the historical growth trends assumes that future traffic patterns will remain consistent with historical patterns, without consideration of future planned developments.

The forecast future traffic volumes and total growth from 1996 to 2018 are shown in Table 5-3.

TABLE 5-3 FORECAST TRAFFIC VOLUMES AND TOTAL GROWTH ON STATE HIGHWAYS

Location	1996 ADT (vehicles/day)	2018 ADT (vehicles/day)	Total Growth 1996-2018
US 395 (Pendleton-John Day Hwy)			
Pilot Rock- north city limits	3,100	3,545	14.3%
Pilot Rock- 0.01 miles south of 3rd Street	3,700	4,230	14.3%
Pilot Rock- south city limits	1,300	1,485	14.3%

Source: ODOT 1976-1996 Transportation Volume Tables; information compiled by DEA.

### HIGHWAY SYSTEM CAPACITY

For the year 2018, unsignalized intersection analyses were performed using the overall growth (14.3 percent) expected on US 395 at the same intersection in Pilot Rock for which the existing conditions were analyzed. The analyses indicated that all three intersections are expected to exceed ODOT level of service standards over the 20-year forecast period. The results of the unsignalized intersection analyses are shown in Table 5-4. Traffic operations were determined at the intersection using the 1985 Highway Capacity Software for unsignalized intersections. This software is based on the 1985 Highway Capacity Manual, Special Report 209, published by the Transportation Research Board.

TABLE 5-4 SUMMARY OF FUTURE OPERATIONS AT US 395 AND CEDAR STREET

Location	Movement	1996 LOS	2018 LOS
US 395 and Cedar Street	Northbound; Left	A(< 0.48)	A(< 0.48)
	Eastbound; Left, Right	A(<0.48)	A(< 0.48)

Note: The level of service is shown for all evaluated movements of the unsignalized intersection.

### **Analysis Results**

Traffic movement volumes at the intersection of US 395 and Cedar Street are forecast to increase by nearly 15 percent over the 20-year forecast period. However, all traffic movements at the intersection are expected to continue to operate at LOS A (v/c ratio less than 0.48) throughout the 20-year forecast period.

#### CHAPTER 6: IMPROVEMENT OPTIONS ANALYSIS

As required by the Oregon Transportation Planning Rule (TPR), transportation alternatives were formulated and evaluated for the Pilot Rock Transportation System Plan (TSP). These potential improvements were developed with the help of the TAC, and city and state officials. Each of the transportation system improvements options was developed to address specific deficiencies, access, or safety concerns and attempt to address the concerns specified in the goals and objectives (Chapter 2).

The following list includes all of the potential transportation system improvements considered. Improvement Options 2 through 7 are illustrated in Figure 6-1.

- 1. Extend North 6th Street to US 395.
- 2. Replace pedestrian bridge over West Birch Creek between Delwood Street and South 6th Street.
- 3. Replace vehicle bridge over East Birch Creek on alley road.
- 4. Establish a roadway maintenance and improvement program.
  - 4A. Pave Hickory Street up to Fir Street.
  - 4B Pave Alder/Beech Street between 5th Street and US 395.
  - 4C. Pave SW 4th Place and SW Cedar Street.

The proposed transportation system improvements evaluated for the Pilot Rock TSP include state highway, county, and local road projects. It should be noted that not all of the transportation improvement options recommended along the county and state systems have identified funding. Therefore, recommended transportation improvements cannot be considered as <u>committed</u> projects, but are subject to the county's and ODOT's abilities to meet these current and future needs financially.

#### **EVALUATION CRITERIA**

The evaluation of the potential transportation improvements in the city of Pilot Rock was based on a quantitative analysis of existing and future traffic volumes and a qualitative review of four factors: 1) safety; 2) access; 3) environmental factors, such as air quality, noise, and water quality; and 4) socioeconomic and land use impacts, such as community livability, right-of-way requirements and impacts on adjacent lands.

Another factor considered in the evaluation of the potential transportation improvements was cost. Costs were estimated in 1998 dollars based on preliminary alignments for each potential transportation system improvement.

### STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM PROJECTS

The Oregon Department of Transportation (ODOT) has a comprehensive transportation improvement and maintenance program that covers the entire state highway system. The Statewide Transportation Improvement Program (STIP) identifies all the highway improvement projects in Oregon. The STIP lists specific projects, the counties in which they are located, and their construction year.

The 2000 to 2003 STIP Update, recently released by ODOT Region 5, identifies two improvements within the city of Pilot Rock. The first improvement to replace West Birch Creek Bridge (County Bridge #

59C900) on SW 2<sup>nd</sup> Road was completed in the year 2000. The total cost of the project was estimated at \$275,000. The second STIP project includes roadway preservation work along US 395 between the north city limits of Pilot Rock to McKay Dam, north of the City including development of a deceleration lane at the entrance of Kinzua. This project is scheduled for construction by the year 2003 with an estimated cost of \$2,720,000. Both STIP projects are also shown in Figure 6-1.

#### IMPROVEMENT OPTIONS EVALUATION

Through the transportation analysis and input provided from the public involvement program, multiple improvement projects were identified. These options included constructing new and reconstructing existing roadways, bridge replacement, and providing improved pedestrian and bicycle facilities.

## Option 1. Extend North 6th Street To US 395

The city of Pilot Rock has identified a potential safety hazard at the highly skewed intersection of Elm Street at US 395. This intersection was created when US 395 was realigned and Elm Street was established along the highway's original alignment. The unrestricted sight distance along the highway from Elm Street is adequate. However, the potential hazard lies in a sight distance restriction along the highway to the south created by the orientation of a driver's vehicle when making a right turn.

Rather than realign this intersection to mitigate this restriction, the city of Pilot Rock has identified an alternative solution to extend North 6th Street to US 395. This would create a standard T-shaped intersection and would provide unrestricted sight distance in both directions along the highway.

The extension of 6th Street would require the construction of only 60 feet of new roadway. Sidewalks and curbs should also be included along the new road.

The area along the proposed 6th Street alignment is open land and a new connection to US 395 would not have any adverse impacts to the current land use. There are some grade problems associated with extending 6<sup>th</sup> Street to connect with US 395. As a result, the new connection to US 395 would be slightly offset from the newly constructed entrance to the Kinzua lumber mill but would allow an opportunity to also consider the addition of a truck deceleration lane on US 395.

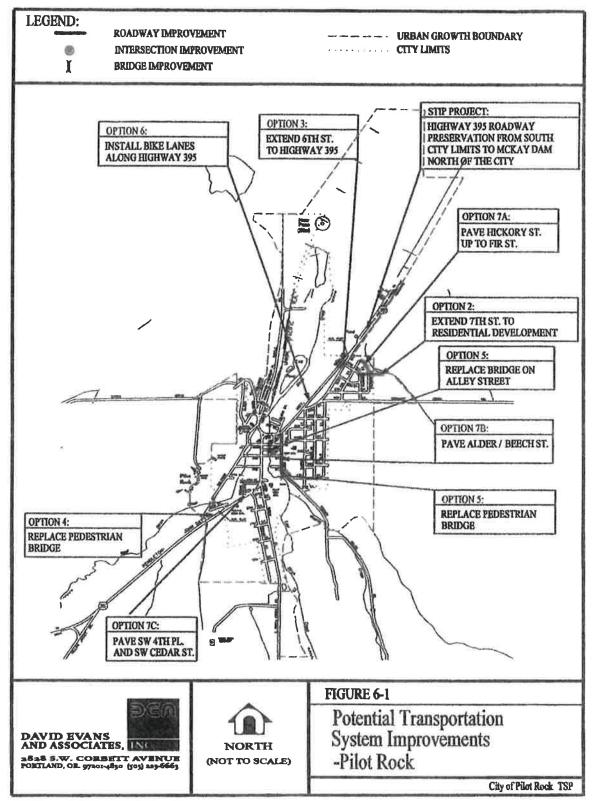
The existing skewed intersection at Elm Street and US 395 would be removed. The estimated cost for the new roadway extension is around \$130,000. Funding for this project will be provided by the State to address the potential safety hazard at the existing skewed intersection.

This option is scheduled for construction in 2002.

# Option 2. Replace Pedestrian Bridge Over West Birch Creek Between Delwood Street and South 6th Street

This project includes the replacement of the pedestrian bridge over West Birch Creek located between Delwood Street and South 6th Street, over the next three to five years (2001-2003). The city of Pilot Rock has been monitoring the degradation of this bridge over the years and has recommended its replacement.

Replacement of the existing bridge will maintain this important pedestrian link between Delwood Street and South 6th Street. This bridge provides pedestrians with an alternative to walking downtown other than by way of US 395.



The total cost for the bridge replacement is around \$7,500. This was determined from the costs of other previous bridge replacements in the City.

This option is recommended within the next 10 to 20 years, or when replacement becomes critical.

# Option 3. Replace Vehicle Bridge Over East Birch Creek On Alley Road

City of Pilot Rock officials believe the vehicle bridge over East Birch Creek on the alley road located between Main Street and South 2nd Street, will be in need of replacement in the next 10 to 20 years.

The total cost to remove and replace the existing bridge was determined using 1997 square foot construction cost estimates, supplied by ODOT, which were taken from the latest prospectus' completed for the federal Highway Bridge and Roadway Rehabilitation (HBRR) fund. These estimates assume a cost of \$6 per square foot for bridge removal and \$54 per square foot for construction of a bridge with a span between zero and 60 feet. Assuming the existing bridge is around 50 feet long by 20 feet wide, the estimated bridge removal cost is around \$6,000. Assuming the new bridge will be around 50 feet long and 25 feet wide, the estimated bridge construction cost is around \$67,500. An additional 5 feet was added to the bridge width to account for two lanes of traffic and a sidewalk along one side. The total cost, therefore, for the entire project is estimated at \$73,500.

Because of limited city funds, the removal and replacement of this bridge may not be feasible. The City may apply for state or federal grants to secure the necessary funds, or the City may choose to construct a bridge similar to the existing steel structure.

This option is recommended over the next 10 to 20 years, or when ever the bridge becomes structurally deficient.

#### Option 4. Establish a Roadway Maintenance and Improvement Program

Many of the local streets in Pilot Rock are substandard gravel roads and are in need of paving. In response to this need, city officials have developed a six-year roadway maintenance and improvement plan to upgrade local city streets to paved roads. At this time, the plan includes a prioritized list of six projects. The following table describes the location of these projects along with each project's length and estimated total cost.

TABLE 6-1 ROADWAY MAINTENANCE AND IMPROVEMENT PROGRAM

Project No.	Description/Location	Project Length	Total Cost
4A.	Pave Hickory Street up to Fir Street.	400 feet	\$11,300
45B. 4C.	Pave Alder Street between 5th Street and US 395 Pave SW 4th Place and SW Cedar Street	1,900 feet 900 feet	\$62,200 \$25,400
Total			\$98,900

The cost estimates for each project identified above assumes a pavement width that is consistent with the street design standards recommended in Chapter 7. Since Hickory Street, SW 4th Place, and SW Cedar Street, are designated as local streets, a pavement width of 34 feet was selected in conformance with the local street design standard. Alder Street which is designated as a minor collector street, a pavement width

of 38 feet was selected. A pavement width of 46 feet was selected for Alder Street, between Main Street and US 395, corresponding to a major collector street standard.

The estimates above also assume a total unit cost of \$0.83 per square foot of asphalt. The unit cost estimate was obtained from Humbert Asphalt Inc., an asphalt laying company based in Milton-Freewater. This cost also includes cutting and cleaning the edges of streets, patching pot holes, tacking, preleveling the entire street with an average of 1 inch of asphalt, and then overlaying the entire street with 2 inches of asphalt, for a total asphalt overlay of around 3 inches.

Funding for these roadway projects will be provided by the City as funds become available. City officials indicate the City has an annual budget of around \$30,000 to \$50,000 for street improvements.

Paving or repaving the city streets will improve the aesthetics of the local street system and community livability for the residents who reside on these streets. For these reasons, all street paving projects are recommended. However, it is also recommended that each of these projects include the addition of a pedestrian facility in correspondence with the recommended street design standards for all types of streets.

#### **SUMMARY**

Table 6-1 summarizes the recommendations of the transportation improvement options based on the evaluation process described in this chapter. Chapter 7 discusses how these improvement options fit into the modal plans for the Pilot Rock area.

TABLE 6-2
TRANSPORTATION IMPROVEMENT OPTIONS: RECOMMENDATION SUMMARY

Op	Option		ecommendation
1.	Extend North 6th Street to US 395	•	Implement
2.	Replace pedestrian bridge over West Birch Creek between Delwood Street and South 6th Street	•	Implement
3.	Replace vehicle bridge over East Birch Creek on alley road	•	Implement
1.	Establish a maintenance and improvement program	•	Implement

#### CHAPTER 7: TRANSPORTATION SYSTEM PLAN

The purpose of this chapter is to provide detailed operational plans for each of the transportation systems within the community. The Pilot Rock Transportation System Plan covers all the transportation modes that exist and are interconnected throughout the urban area. Components of the TSP include street classification standards, access management recommendations, transportation demand management measures, modal plans, and a system plan implementation program.

#### STREET DESIGN STANDARDS

Street design standards ensure the design of a roadway supports its intended function. The function is determined by operational characteristics such as traffic volume, operating speed, safety, and capacity. Street standards institute design parameters necessary to provide a community with roadways that are relatively safe, aesthetic, and easy to administer when new roadways are planned or constructed. They are based on experience, and policies and publications of the profession.

#### **Existing Street Standards**

Street designations for Pilot Rock are contained in the Pilot Rock Technical Report, while street definitions and standards are listed in the City of Pilot Rock Subdivision Ordinance (1986). The city of Pilot Rock Technical Report designates streets in the city as arterials, major collectors or minor collectors. All streets not classified are assumed to be local streets. The Technical Report is not adopted as part of the Comprehensive Plan, but acts as a supporting document. An inconsistency between the Technical Report and Subdivision Ordinance exists in that the Subdivision Ordinance definitions and standards do not distinguish between major and minor collectors and add an additional classification, alleys. Furthermore, standards for street types are broken into two groups — business/industrial streets and residential streets as shown in Tables 7-1 and 7-2.

The Subdivision Ordinance regulates the construction of new or undeveloped streets within the city and Urban Growth Boundary. It defines the different streets as follows:

Alley: A narrow street through a block primarily for vehicular service access to the back or side of properties otherwise abutting on another street.

Arterial: A street of considerable continuity that is primarily a traffic artery for travel between large areas.

Collector: A street supplementary to the arterial street system and a means of travel between this system and smaller areas, used to some extent for through traffic and to some extent for access to abutting properties.

Cul-de-sac: A short street having one end to traffic and being terminated by a vehicle turn-around.

Local Street: A street intended primarily for access to abutting properties.

Marginal Access Street: A local street parallel and adjacent to an arterial street providing access to abutting properties, but protected from through traffic.

The Ordinance also lists general requirements and design standards for streets. General requirements include the frontage requirements, grading, topography and arrangement of streets, road names, sign

requirements, and street light requirements. Design standards include widths for rights-of-way, pavement, grade, speed, and sidewalks as follows:

TABLE 7-1
ROAD DESIGN STANDARDS - BUSINESS/INDUSTRIAL

Road	Minimum	Minimum	Maximum		-
Classification	Right-of-way	Surface Width	Grade	Speed	Sidewalks
Arterial Street	100 ft	48 ft	5 %	45 mph	Both sides 5 ft
Collector Street	70 ft	44 ft	7 %	40 mph	One sides 4 ft
Local Street	60 ft	38 ft	8 %	30 mph	One side 4 ft
Alleys	24 ft	24 ft	nl	nl	nI

nl - no standard listed

TABLE 7-2 ROAD DESIGN STANDARDS – RESIDENTIAL

Road	Minimum	Minimum	Maximum		
Classification	Right-of-way	Surface Width	Grade	Speed	Sidewalks
Arterial Street	80 ft	44 ft	8 %	40	Both sides 4 ft
Collector Street	60 ft	38 ft	10 %	35	Optional*
Local Street	50 ft	38 ft	12 %	25	Optional*
Alleys	20 ft	20 ft	nl	nl	nl

nl - no standard listed

Subdivisions are required to provide frontage on and access to an existing street. Streets must be improved to city, county or state standards. Sidewalks may be required at the discretion of the City Council on local or collector residential streets.

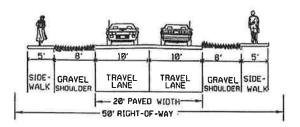
Pedestrian accesses may be required by the City Council to facilitate pedestrian access from streets to schools, parks, playgrounds, or other nearby streets. These are perpetual unobstructed easements at least 20 feet in width. The City Council may also require installation of separate bicycle lanes within streets or on separate paths.

#### **Recommended Street Standards**

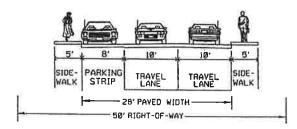
The development of the Pilot Rock Transportation System Plan provides the city with an opportunity to review and revise street design standards to resolve the discrepancies between the Subdivision Ordinance and the Technical Report. The recommended standards take into account the existing Subdivision Ordinance standards and revise them to fit more closely with the functional street classifications, and the goals and objectives of the Transportation System Plan. The recommended street standards for all types of functional classifications are shown graphically in Figure 7-1 through Figure 7-4, and are summarized in Table 7-3. These standards are consistent with the existing roadway functional classification shown in Figure 3-1. Further discussion of each type of street standard follows below.

Since the Pilot Rock Transportation System Plan includes all land within the UGB, the recommended street standards should be applied to the areas within and outside the city limits that are within the UGB. Although some of the outlying areas may presently have a rural appearance, these lands will ultimately be part of the urban area. Retrofitting rural streets in these areas as well as all rural streets within the city limits

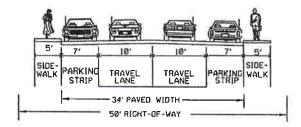
<sup>\*</sup> Sidewalks may be required by the City Council on these streets.



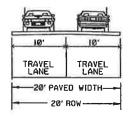
OPTION 1: TWO TRAVEL LANES, NO ON-STREET PARKING, GRAVEL SHOULDERS



OPTION 2: TWO TRAVEL LANES, ON-STREET PARKING ON ONE SIDE ONLY



OPTION 3: TWO TRAVEL LANES, ON-STREET PARKING ON BOTH SIDES



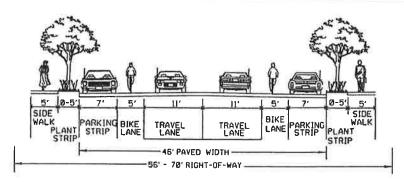
ALLEYS



FIGURE 7-1

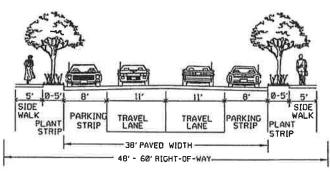
Street Standards Local Residential and Alleys

City of Pilot Rock TSP



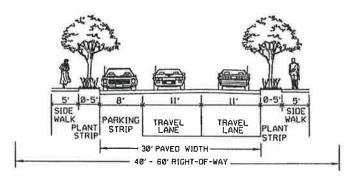
MAJOR COLLECTOR

TWO TRAVEL LANES WITH BIKE LANES AND ON-STREET PARKING ON BOTH SIDES



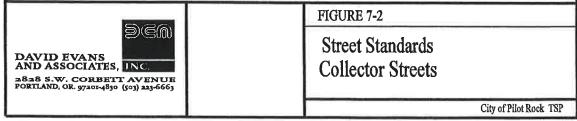
MINOR COLLECTOR

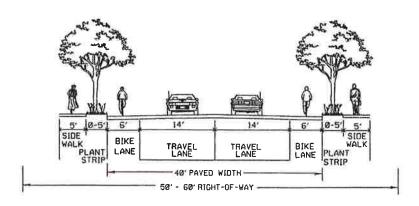
OPTION 1: TWO TRAVEL LANES WITH ON-STREET PARKING ON BOTH SIDES



MINOR COLLECTOR

OPTION 2: TWO TRAVEL LANES WITH ON-STREET PARKING ON ONE SIDE ONLY



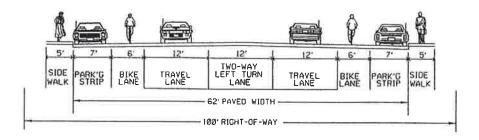


TWO TRAVEL LANES WITH BIKE LANES ON BOTH SIDES

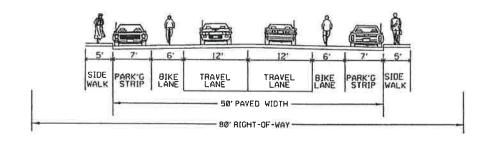


Street Standards
Industrial / Commercial Streets
(Collector or Local)

City of Pilot Rock TSP



OPTION 1: TWO TRAVEL LANES, CENTER TURN LANE, BICYCLE LANES, ON-STREET PARKING ON BOTH SIDES



OPTION 2: TWO TRAVEL LANES, BICYCLE LANES, ON-STREET PARKING ON BOTH SIDES

DAVID EVANS
AND ASSOCIATES,
BEAD S.W. CORBETT AVENUE
PORTLAND, OR. 97201-4830 (503) 203-6663

FIGURE 7-4

Street Standards
Arterial Streets

City of Pilot Rock TSP

to urban standards in the future is expensive and controversial; it is better to initially build them to an acceptable urban standard.

TABLE 7-3
RECOMMENDED STREET DESIGN STANDARDS

Classification	Pavement Width	Right-of-Way Width	Sidewalks	Bike-Lanes	Min. Posted Speed
Arterial - Option 1	62 ft.	80 ft.	5 ft. (both sides)	6 ft. (both sides)	25-45 mph
Arterial – Option 2	50 ft.	80 ft.	5 ft. (both sides)	6 ft. (both sides)	25-45 mph
Major Collector	46 ft.	70 ft.	5 ft. (both sides)	5 ft. (both sides)	25-35 mph
Minor Collector – Option 1	38 ft.	60 ft.	5 ft. (both sides)	none	25-35 mph
Minor Collector - Option 2	30 ft.	60 ft.	5ft. (both sides)	none	25-35 mph
Industrial/Commercial (Collector or Local)	40 ft.	70 ft.	5 ft. (both sides)	collector - 6 ft.	25-35 mph
Residential (Local) - Option 1	20 ft.	50 ft.	5 ft. (both sides)	none	15-25 mph
Residential (Local) - Option 2	28 ft.	50 ft.	5 ft. (both sides)	none	15-25 mph
Residential (Local) - Option 3	34 ft.	50 ft.	5 ft. (both sides)	none	15-25 mph
Alley	20 ft.	20 ft.	none	none	15 mph

Sidewalks should be included on all urban streets as an important component of the pedestrian system. Ideally, sidewalks should be buffered from the street by a planting strip to eliminate obstructions in the walkway, provide a more pleasing design and a buffer from traffic. When sidewalks are located directly adjacent to the curb, they can include such impediments as mailboxes, street light standards, and sign poles, which reduce the effective width of the walk. To maintain a safe and convenient walkway for at least two adults, a 5 foot sidewalk should be used in residential areas.

# Residential Streets (Local)

The design of a residential local street affects its traffic operation, safety, and livability. The residential street should be designed to enhance the livability of the neighborhood while accommodating less than 1,200 vehicles per day. Design speeds should be 15 to 25 mph. When traffic volumes exceed approximately 1,000 to 1,200 vehicles per day, the residents on that street will perceive the traffic as a noise and safety problem. To maintain neighborhoods, residential streets should be designed to encourage low speed travel and to discourage through traffic. Narrower streets discourage speeding and through traffic as well as improve neighborhood aesthetics. They also reduce right-of-way needs, construction costs, storm water runoff, and the need to clear vegetation.

Three recommended street standard options are provided for local streets, as shown in Figure 7-1. Each option provides a minimum of 20 feet of pavement and provides varying degrees of on-street parking. The city should choose one of these options for each residential street based on the existing right-of-way and neighborhood character.

## Option 1

This first option for a local residential street is a 20 foot paved roadway surface within a 50 foot right-of-way. This standard will accommodate passage of one lane of moving traffic in each direction, with 8 foot wide gravel shoulders on both sides of the street for parking. Five-foot sidewalks should also be provided on each side of the roadway.

## Option 2

This option provides a 28 foot paved roadway surface within a 50 foot right-of-way. This standard will accommodate passage of one lane of moving traffic in each direction, with curbside parking on one side. Five-foot sidewalks should be provided on each side of the roadway, adjacent to the curb.

## Option 3

A third option for a residential street provides a 34 foot paved roadway within a 50-foot right-of-way. This standard will accommodate passage of one lane of moving traffic in each direction, with curbside parking present along both sides of the road. A five-foot wide sidewalk should be provided on each side of the roadway, adjacent to the curb.

## Alleys

Alleys can be a useful way to diminish street width by providing rear access and parking to residential, commercial, and industrial areas. Including alleys in a residential subdivision allows homes to be placed closer to the street and eliminates the need for garages to be the dominant architectural feature. This pattern, once common, has been recently revived as a way to build better neighborhoods. In addition, alleys can be useful in commercial and industrial areas, allowing access for delivery trucks which is off the main streets. Alleys should be encouraged in the urban area of Pilot Rock. Alleys should be 20 feet wide, with a 20 foot right-of-way (see Figure 7-1).

#### Cul-de-Sac Streets

Cul-de-sac, or "dead-end" residential streets are intended to serve only the adjacent land in residential neighborhoods. These streets should be short (less than 400 feet long) and serve a maximum of 20 single-family houses. Because the streets are short and the traffic volumes relatively low, the street width can be narrower than a standard residential street, allowing for the passage of two lanes of traffic when no vehicles are parked at the curb and one lane of traffic when vehicles are parked at the curb.

Because cul-de-sac streets limit street and neighborhood connectivity, they should only be used where topographical or other environmental constraints prevent street connections. Where cul-de-sacs must be used, pedestrian and bicycle connections to adjacent cul-de-sacs or through streets should be included.

#### Collector Streets

Collectors are intended to carry between 1,200 and 10,000 vehicles per day, including limited through traffic, at a design speed of 25 to 35 mph. A collector can serve residential, commercial, industrial, or mixed land uses. Collectors are primarily intended to serve local access needs of residential neighborhoods by

connecting local streets to arterials. Bike lanes are typically not needed in smaller cities like Pilot Rock due to slower traffic speeds and low traffic volumes.

Four recommended street standard options are provided for collectors, as shown in Figure 7-2. All four options provide one lane of moving traffic in each direction. The collectors can be striped to provide two travel lanes plus left-turn lanes at intersections or driveways by removing parking for short distances. One of the options is intended for industrial/business areas. This option would be appropriate for the Cedar Street/Circle Street route north of its intersection with US 395. The City should choose which option is most appropriate for each collector based on the existing right-of-way and neighborhood character.

## **Major Collector**

This option provides a 46 foot paved roadway surface within a 70 foot right-of-way. This standard will accommodate passage of one lane of moving traffic in each direction, with curbside parking on both sides of the street. Five foot sidewalks should be provided on each side of the roadway along with an optional planting strip with a width up to 5 feet.

## Minor Collector- Option 1

This option is similar to the major collector. It also provides a 38 foot paved roadway surface within a 60 foot right-of-way. This standard will accommodate passage of one lane of moving traffic in each direction, with curbside parking on both sides of the street. Four foot sidewalks should be provided on one side of the roadway along with an optional planting strip with a width up to 5 feet.

## Minor Collector - Option 2

This option provides a 30 foot roadway surface within a 60 foot right-of-way. This standard will accommodate passage of one lane of moving traffic in each direction, with curbside parking on one side. Five foot sidewalks should be provided on each side of the roadway, adjacent to the curb along with an optional planting strip with a width up to 5 feet.

# Industrial/Commercial Collector or Local Street

This option calls for a 70 foot right-of-way and a 40 foot paved width. The 40 foot curb face-to-curb face distance allows two 14 foot travel lanes and two 6 foot wide bicycle lanes. Five-foot sidewalks shall be provided on each side of the roadway and a 5-foot wide planting strip is optional. In areas where truck loading and unloading is necessary, the sidewalks can be widened to 8 feet and located adjacent to the curb (see Figure 7-3).

The industrial/commercial street in a residential area has the same design standards except that bicycle lanes are optional.

## Arterial Streets

Arterial streets form the primary roadway network within and through a region. They provide a continuous roadway system that distributes traffic between different neighborhoods and districts. Generally, arterial streets are high capacity roadways that carry high traffic volumes with minimal localized activity. Design speeds should be between 25 and 45 mph (see Figure 7-4).

## Option 1

This option consists of a 80 foot right-of-way and a 62 foot paved width. This standard allows for two 12 foot travel lanes, a 12 foot center turn lane, two 6 foot bike lanes, and curbside parking along both sides of the roadway at 7 feet wide. Sidewalks, at least 5 feet in width, should also be provided on each side of the roadway.

## Option 2

This option is similar to Option 1, but without the center turn lane. This standard provides a 50 foot paved surface within an 80 foot right-of-way to allow for two 12 foot travel lanes, two 6 foot bike lanes, and curbside parking along both sides of the roadway at 7 feet wide. Sidewalks, at least 5 feet in width, should also be provided on each side of the roadway.

#### Bike Lanes

In cases where a bikeway is proposed within the street right-of-way, 5 to 6 feet of roadway pavement should be striped on each side and reserved for bike lanes. The striping should be done in conformance with the *State Bicycle and Pedestrian Plan* (1995). In cases where curb parking will exist with a bike lane, the bike lane will be located between the parking and travel lanes. In some situations, curb parking may have to be removed to permit a bike lane.

Bikeways should be added when a new street is built or improvements are made to existing streets.

On arterial and collector streets that are not scheduled to be improved as part of the street system plan, bike lanes may be added to the existing roadway at any time to encourage cycling, or when forecast traffic volumes exceed 2,500 to 3,000 vehicles per day. The striping of bike lanes on streets that lead directly to schools should be high priority.

#### Sidewalks

A complete pedestrian system should be implemented in the urban portion of Pilot Rock. Every urban street should have sidewalks on both sides of the roadway as shown on the cross sections in Figure 7-1 through Figure 7-4. Sidewalks on residential streets should be at least 4 feet wide. In addition, pedestrian and bicycle connections should be provided between any cul-de-sac or other dead-end streets.

Another essential component of the sidewalk system is street crossings. Intersections must be designed to provide safe and comfortable crossing opportunities. Tools to accomplish this include crosswalks, signal timing (to ensure adequate crossing time) when traffic signals are present, and other enhancements such as curb extensions which are used to decrease pedestrian crossing distance and act as traffic calming measures.

# **Curb Parking Restrictions**

Curb parking should be prohibited at least 25 feet from the end of an intersection curb return to provide sight distance at street crossings.

## Street Connectivity

Street connectivity is important because a well-connected street system provides more capacity and better traffic circulation than a disconnected one. Developing a grid system of relatively short blocks can minimize excessive volumes of motor vehicles along roads by providing a series of equally attractive or restrictive travel options. Street connectivity in Pilot Rock is constricted due to a number of natural features. Three creeks run through town (East and West Birch Creek, which become one creek just north of downtown, and Wegner Creek). Therefore, Pilot Rock contains a broken grid system with many discontinuing, or dead-end streets. There are many pedestrian bridges over the creeks, however. When feasible, vehicle bridges should be created to connect the grid system. New development should maintain square short blocks (under 400 feet in length) whenever possible. Short interconnected blocks benefit cars, pedestrians and bicyclists by shortening travel distances and making travel more convenient. The average block size within the City's grid system is around 300 feet square, which is an ideal block size. New development should have a maximum block perimeter of 1,200 feet. Good street connectivity is critical to Pilot Rock's continued livability.

#### ACCESS MANAGEMENT

Access management is an important tool for maintaining a transportation system. Too many access points along arterial streets lead to an increased number of potential conflict points between vehicles entering and exiting driveways, and through vehicles on the arterial streets. This not only leads to increased vehicle delay and deterioration in the level of service on the arterial, but also leads to a reduction in safety. Research has shown a direct correlation between the number of access points and collision rates. Experience throughout the United States has also shown that a well-managed access plan for a street system can minimize local cost for transportation improvements needed to provide additional capacity and/or access improvements along unmanaged roadways. Therefore, it is essential that all levels of government maintain the efficiency of existing arterial streets through better access management.

The Transportation Planning Rule (TPR) defines access management as measures regulating access to streets, roads and highways from public roads and private driveways and requires that new connections to arterials and state highways be consistent with designated access management categories. As the city of Pilot Rock continues to develop, the arterial/collector/local street system will become more heavily used and relied upon for a variety of travel needs. As such, it will become increasingly important to manage access on the existing and future arterial/collector street system as new development occurs.

One objective of the Pilot Rock TSP is to develop an access management policy that maintains and enhances the integrity (capacity, safety, and level-of-service) of the city's streets. Too many access points along a street can contribute to a deterioration of its safety, and on some streets, can interfere with efficient traffic flow.

#### Access Management Techniques

The number of access points to an arterial can be restricted through the following techniques:

- Restrictions on spacing between access points (driveways) based on the type of development and the speed along the arterial.
- Sharing of access points between adjacent properties.
- Providing access via collector or local streets where possible.

- Constructing frontage roads to separate local traffic from through traffic.
- Providing service drives to prevent spill-over of vehicle queues onto the adjoining roadways.
- Providing acceleration, deceleration, and right-turn only lanes.
- Offsetting driveways to produce T-intersections to minimize the number of conflict points between traffic using the driveways and through traffic.
- Installing median barriers to control conflicts associated with left-turn movements.
- Installing side barriers to the property along the arterial to restrict access width to a minimum.

# Recommended Access Management Standards

Access management is hierarchical, ranging from complete access control on freeways to increasing use of streets for access purposes, parking and loading at the local and minor collector level. Table 7-4 describes recommended general access management guidelines by roadway functional classification.

TABLE 7-4
RECOMMENDED ACCESS MANAGEMENT STANDARDS

		Inte	rsections	
	Public	c Road	Private Drive <sup>(2)</sup>	
Functional Classification	Type <sup>(1)</sup>	Spacing	Туре	Spacing
ARTERIAL STREETS				
US 395 (Pendleton-John Day Highway) (3)	See A	ccess Manage	ment Spacing S	tandards.
OTHER ARTERIAL STREETS WITHIN UGB		_	999 Oregon High	,
COLLECTOR STREETS (4)				•
Major: Alder Dr., Birch St., Main St., and	at-grade	250 ft.	L/R Turns	100 ft.
Birch Crk Rd. (Co. Road # 1375)				
Industrial/Commercial: Cedar St./Circle Rd.				
(north of US 395), Alder St., Cherry St., and Elm St.				
Minor: 2nd St., 4th St./Stewart Crk. Rd., Delwood St.,				
Delwood Pl.,				
RESIDENTIAL STREETS	at-grade	250 ft.	L/R Turns	Access to
	-			Each Lot
ALLEYS (URBAN)	at-grade	100 ft.	L/R Turns	Access to
				Each Lot

#### Notes:

- (2) Allowed moves and spacing requirements may be more restrictive than those shown to optimize capacity and safety. Also, see section below on "Access Control Rights" along state highways.
- (3) See section on Special Transportation Area below.
- (4) Some sections of these roads are designated as minor collectors or residential streets, where the corresponding access management standard is applicable.

## Application

The access management standards above apply mainly to new development accesses. They are not intended to eliminate existing intersections or driveways. It is important to note, however, that existing developments and legal accesses on the transportation network will not be affected by the recommended access management techniques until a land use action is proposed, a safety or capacity deficiency is identified that

requires specific mitigation, a specific access management strategy/plan is developed, existing properties along the highway are redeveloped, or a major construction project is initiated on the street.

To summarize, access management strategies consist of managing the number of access points and providing traffic and facility improvements. The solution is a balanced, comprehensive system that provides reasonable access while maintaining the safety and efficiency of traffic movement.

## State Highways

Access management is important to promoting safe and efficient travel for both local and long distance users along US 395 in Pilot Rock. The 1999 Oregon Highway Plan (OHP) specifies an access management spacing standards and policies for state facilities.

Although Pilot Rock may designate state highways as arterial roadways within their transportation system, access management for these facilities follows the Access Management Spacing Standards of the 1999 Oregon Highway Plan. These spacing standards are based on highway classification, type of area and speed, which are shown in the appendix to this document. Access to State Highways is permitted under Oregon Administrative Rules Division 51. This section of the TSP describes the state highway access management objectives and specific highway segments where special access spacing standards apply.

US 395 in Pilot Rock is a categorized in the 1999 Oregon Highway Plan as a Statewide Highway. The primary function of these highways is to provide connections to larger urban areas, ports, and major recreation areas of the state not served by freeways. The management objective to statewide urban highways is to provide high to moderate speed operations with limited interruptions in traffic flow. There are no special highway segments identified in the 1999 Oregon Highway Plan that apply to US 395 in Pilot Rock at this time.

## **ACCESS CONTROL RIGHTS**

Historically, owners of property abutting public roadways have enjoyed a common law abutter's right of access to the roadway. However, in order to provide for a transportation system that would accommodate changing public needs, legislation has been passed to modify the rights of access. Oregon Revised Statutes specify among other property rights, the right of access can be purchased or condemned as deemed necessary for rights-of-way. The Oregon Department of Transportation has purchased access control rights from many properties along state highways.

Once the state has acquired the access rights to a property, road approach permits can only be issued at locations on the property where the right of access has been reserved. These "reservations of access" give the property owner the common law right of access to the state highway only at specific locations and they are clearly identified in the deed where the property owner sold the right of way to the state. If the owner wants to gain additional access rights to the highway, they must apply for a "grant" of access.

There may be local street connections shown in this Transportation System Plan that will require modifying the existing access rights or gaining additional access rights to the state highway system. Review of this TSP by ODOT does not imply tacit approval to modify or grant additional access rights. This must be accomplished by applying to ODOT for such modification or grant.

An "indenture of access" is used to modify existing access rights such as moving or widening the reservation or lifting other restrictions that may have been placed on it. A "grant of access" is required to gain an

additional access point to the highway and, depending on the circumstances, may require payment to the state for the market value of the grant. Application for both the indenture and grant of access is made to local ODOT district office.

#### MODAL PLANS

The Pilot Rock modal plans have been formulated using information collected and analyzed through a physical inventory, forecasts, goals and objectives, and input from area residents. The plans consider transportation system needs for Pilot Rock during the next 20 years assuming the growth projections discussed in Chapter 5. All transportation system needs identified in this section have been assigned a project number in consecutive order, beginning with the projects identified in the street system plan. The timing of these projects will be guided by the changes in land use patterns, growth of the population in future years, and available funds. Specific projects and improvement schedules may need to be adjusted depending on when and where growth occurs within Pilot Rock.

## Street System Plan

The street system plan recommends any changes necessary to the current street classification system and outlines a series of improvements that are recommended for construction within the city of Pilot Rock during the next 20 years. These options have been discussed in Chapter 6 (Improvement Options Analysis). Projects that make up the proposed street system plan are summarized in Table 7-5.

## Street System Functional Classification

Street system functional classifications relate the design of a roadway to its function. The function is determined by operational characteristics such as travel demand, street capacity, and the operating speed of the roadway. The city of Pilot Rock Technical Report currently classifies all streets within the Urban Growth Boundary as arterial, major collector, minor collector, commercial/industrial roads, or local streets. The Subdivision Ordinance includes an additional category (alleys) and specifies different development standards depending on whether the street is considered residential or industrial/commercial. A review of the existing street system inventory, the recommended street design standards, and all new projects recommended in the street system plan, indicates the Technical Report's functional classifications are appropriate. The recommended street classifications are described as follows:

- Pendleton-John Day Highway (US 395) classified as an arterial roadway, as it is a highway of statewide level of importance, it carries the highest traffic volumes through the City, and it is a primary route to other cities in the county and state.
- Alder Drive (US 395 to Main Street) classified as a major collector street, as its function is to connect local neighborhoods to the downtown area and with US 395.
- Birch Creek Road, Co. Road #1375 (from US 395 south) classified as a major collector street, as
  its function is to connect local neighborhoods with US 395 and provides a primary route out of
  town.
- Main Street (US 395 to Alder Street) classified as a major collector street, as its function is to connect local neighborhoods to the downtown area and to US 395.
- Cedar Street and Circle Road (north of 3rd Street) classified as an industrial/commercial street, as the function of this roadway is to provide access to the industrial areas north of downtown and connect these areas with US 395.

- 2nd Street (Delwood Street to US 395) classified as a minor collector street, as its function is to connect local neighborhoods with the downtown area.
- 4th Street/Stewart Creek Road (intersection with US 395 to east city limit) classified as major collector streets, as they function is to connect local neighborhoods to US 395 and provide a primary connection to areas east of town.
- Alder Street (Main Street to Cherry Street) classified as a major collector, as its function is to connect local neighborhoods to the downtown area.
- Cherry Street (Alder Street to US 395) classified as a major collector street, as its function is to connect local neighborhoods with the downtown area.
- Delwood Place (city limits to 2nd Street) classified as a minor collector street, as it connects local neighborhoods to the downtown area.
- Elm Street (4th Street to US 395) classified as a minor collector street, as it connects local neighborhoods with US 395.
- All other roads classified as local streets.

#### Street Improvement Projects

Table 7-5 presents all street and bridge improvement projects within the urban area that compose the street system plan. Prioritization of these projects is at the discretion of the City and/or county depending upon jurisdiction over the project.

It should be noted that the inclusion of a project in the TSP does not constitute a commitment by ODOT or the county that either agency will participate in the funding of the project. ODOT's participation will be determined via the biennial updates of the multi-year STIP process, and the construction of any project is contingent upon the availability of future revenues. The county's participation will be according to project prioritization as indicated in the Capital Improvement Plan, and contingent upon available funding.

TABLE 7-5
RECOMMENDED STREET SYSTEM PROJECTS

Project		
Number	Location/Description	Cost
1.	Extend North 6th St. to US 395.	\$130,000
4A.	Pave Hickory Street up to Fir Street	\$11,300
4B.	Pave Alder Street between 5th Street and US 395	\$62,200
4C.	Pave SW 4th Place and SW Cedar Street	\$25,400
3.	Replace vehicle bridge over East Birch Creek on alley roadway.	\$73,500
<b>Total</b>		\$302,400

#### Pedestrian System Plan

A complete interconnected pedestrian system should be implemented in the City when feasible. A sidewalk inventory revealed that Pilot Rock's urban core has a fairly developed sidewalk system. Sidewalks exist

through the downtown area on both sides of US 395, Main Street, 2nd Street, and 3rd Street. Unfortunately, many of these sidewalks are in poor condition and curb cuts for wheelchairs are lacking. Crosswalks exist at three intersections and pedestrian bridges traverse the City's creeks in six locations. Every paved street should have sidewalks on both sides of the roadway, except in extenuating circumstances, meeting the requirements set forth in the recommended street standards. Pedestrian access on walkways should be provided continuously between businesses, parks, and adjacent neighborhoods. (Ordinances specifying these requirements are included in Chapter 9.)

Because of the small size of Pilot Rock and the limited public resources available for transportation system improvements, sidewalk construction on a large scale may not be feasible. However, the City should require sidewalks to be constructed as part of any major roadway improvements, or as adjacent land is developed.

The primary goal of establishing a pedestrian system is to improve pedestrian safety; however, an effective sidewalk system has several qualitative benefits as well. Providing adequate pedestrian facilities increases the livability of a city. When pedestrians can walk on a sidewalk, separated from vehicular street traffic, it makes the walking experience more enjoyable and may encourage walking, rather than driving, for short trips. Sidewalks enliven a downtown and encourage leisurely strolling and window shopping in commercial areas. This "Main Street" effect improves business for downtown merchants and provides opportunities for friendly interaction among residents. It may also have an appeal to tourists as an inviting place to stop and walk around.

The cost to construct a concrete sidewalk facility is around \$25 per linear foot. This assumes a sidewalk width of 5 feet with curbing. The cost estimate also assumes the sidewalks are composed of 4 inches of concrete and 6 inches of aggregate. As an alternative, asphalt walkways could be provided instead of a concrete sidewalk at a lower initial cost. Construction costs for this type of facility are typically about 40 percent of the costs for concrete sidewalks; however, maintenance, such as sealing and resurfacing the asphalt, must occur more frequently.

All new sidewalk construction in the City should include curb cuts for wheelchairs at every street corner to comply with the Americans with Disabilities Act (ADA). The addition of crosswalks should also be considered at all major intersections. As street improvements are made to the existing street system, projects involving the construction of new sidewalks may require on-street parking to be implemented in place of parking on grass or gravel shoulders.

In Chapter 6, four pedestrian-related projects were identified. These projects include: providing safety measures at the intersection of US 395 and Main Street, constructing sidewalks along US 395, replacing a pedestrian bridge over West Birch Creek between Delwood Street and South 6th Street, and replacing a pedestrian bridge over East Birch Creek between the city park and Alder Street. These projects are summarized below in Table 7-6.

TABLE 7-6
RECOMMENDED PEDESTRIAN SYSTEM PROJECTS

Project Number	Location/Description	Cost
2.	Replace pedestrian bridge over West Birch Creek between Delwood Street and South 6th Street.	\$7,500
Total		\$7,500

## Bicycle System Plan

On the collector and local streets in Pilot Rock, bicyclists share normal vehicle lanes with motorists. Due to low travel speeds and traffic volumes observed in the City shared usage of the roadway between bicyclists and automobiles is appropriate. However, on highways such as US 395, where travel speeds and traffic volumes are much higher, the need to separate bicyclists from highway traffic becomes an issue. US 395 functions as an arterial through Pilot Rock. The *Oregon Bicycle and Pedestrian Plan* recommends that for a facility such as this, a shoulder bikeway should be present. Existing shoulder widths along the highway in the vicinity of Pilot Rock range between 4 feet to over 6 feet. Street standards recommended in this Plan call for 6 foot wide bike lanes on arterial streets.

Bicycle parking is lacking in Pilot Rock. Bike racks should be installed in front of downtown businesses and all public facilities (schools, post office, library, city hall, and parks). Typical rack designs cost about \$50 per bike plus installation. Bike rack installation can be implemented as finances and/or grant funding is available.

## Transportation Demand Management Plan

Through transportation demand management (TDM), peak travel demands can be reduced or spread over time to more efficiently use the existing transportation system, rather than building new or wider roadways. Techniques that have been successful and could be initiated to help alleviate some traffic congestion include carpooling and vanpooling, alternative work schedules, bicycle and pedestrian facilities, and programs focused on high density employment areas.

In Pilot Rock, because traffic volumes are low, capacity of the local street system is not an issue. Therefore, implementing TDM strategies may not be practical in most cases

Because intercity commuting is a factor in Umatilla County, residents who live in Pilot Rock and work in other cities should be encouraged to carpool with a fellow coworker or someone who works in the same area. Implementing a local carpool program in Pilot Rock alone is not practical because of the City's small size; however, a county-wide carpool program is feasible. The city of Pilot Rock should support state and county carpooling and vanpooling programs, which could further boost carpooling ridership.

No costs have been estimated for the TDM plan. Grants may be available to set up programs; other aspects of transportation demand management can be encouraged through ordinances and policy.

#### **Public Transportation Plan**

As described in Chapter 3, the only intercity bus service in Umatilla County is provided by Greyhound bus lines which provides service along I-84, US 395, and OR 11 within Umatilla County. Greyhound has terminals located in Hermiston and Pendleton that connect these cities to each other and major population centers outside of the county. The Hermiston terminal has two departures heading southeast (with stops in Pendleton, La Grande, Boise, and Salt Lake City); three buses running west to Portland; and two buses heading north on US 395 to Pasco and Spokane daily. The Pendleton terminal has three departures southeast (with stops in La Grande, Boise and Salt Lake City); three departures west to Portland; and two departures north to Seattle via Walla Walla, Pasco, and Spokane daily.

Because of the small size of Pilot Rock, ridership demand is not high enough for Greyhound bus lines to feasibly provide service to the City. Pilot Rock does have a dial-a-ride type service available for the

transportation disadvantaged provided by the Pilot Rock Lions Club. This service provides door-to-door service initiated by a user's request for transportation.

Pilot Rock has no local fixed-route transit service at this time. The small size and low traffic volumes on city streets indicate that mass transit is not necessary or economically feasible at this time. The Transportation Planning Rule exempts cities with a population of less than 25,000 from developing a transit system plan or a transit feasibility study as part of their Transportation System Plans.

#### Rail Service Plan

Pilot Rock has no passenger rail service, but does have freight rail service. Until recently, AMTRAK service was available in Hermiston and Pendleton along the rail line that follows the I-84 corridor from Portland to Boise, Idaho and points east. Amtrak is currently experiencing a funding crisis. As a result, passenger service between Portland and Denver, including service to cities within Umatilla County, was discontinued in May 1997. This line serves only freight traffic now.

The Union Pacific Railroad right-of-way runs northeast to southwest into Pilot Rock's UGB and city limits stopping just north of the downtown area. While these lines are not active, it may be possible for rail service to be resumed at some future time. It is recommended that the City support the reactivation of these lines if market forces make such activity feasible in the future.

#### Air Service Plan

Pilot Rock does not have its own air service within the City. However, there are many airport facilities nearby. Eastern Oregon Regional Airport is located in Pendleton, approximately 20 miles north of Pilot Rock, and provides commercial air service. Hermiston Municipal Airport is located in Hermiston, approximately 45 miles northwest of Pilot Rock, and provides chartered flights. Other small nearby airports in the county include: Barrett Field northwest of Athena, the Pea Growers' Field south of Athena, and Curtis Airfield northwest of Pendleton. These airports are small, private, uncontrolled airstrips mainly used for crop dusting operations. Good access to these facilities (especially the Eastern Oregon Regional Airport) should be maintained.

#### Pipeline Service

There is one natural gas line serving Pilot Rock.

#### Water Transportation

Pilot Rock has no water transportation services.

# TRANSPORTATION SYSTEM PLAN IMPLEMENTATION PROGRAM

Implementation of the Pilot Rock Transportation System Plan will require adoption of the amended City Comprehensive Plan and zoning and land division ordinances and preparation of a 20-year Capital Improvement Plan. These actions will enable Pilot Rock to address both existing and emerging transportation issues throughout the urban area in a timely and cost effective manner.

One part of the implementation program is the formulation of a 20-year Capital Improvement Plan (CIP). The purpose of the CIP is to detail what transportation system improvements will be needed as Pilot Rock grows and provide a process to fund and schedule the identified transportation system improvements. It is expected that the Transportation System Plan Capital Improvement Plan can be integrated into the existing city and county CIP and the ODOT STIP. This integration is important since the Transportation System Plan proposes that city, county, and state governmental agencies fund all or some of the transportation improvement projects.

Model policy and ordinance language that conforms with the requirements of the Transportation Planning Rule is included in Chapter 9. The proposed ordinance amendments will require approval by the City Council and those that affect the unincorporated urban area will also require approval and adoption by the Board of County Commissioners.

# 20-Year Capital Improvement Program

Table 7-7 summarizes the CIP and provides cost information. The cost estimates for all the projects listed on the CIP were prepared on the basis of 1998 dollars. These costs include design, construction, and some contingency costs. They are preliminary estimates and generally do not include right-of-way acquisition, water or sewer facilities, or adding or relocating public utilities. The following schedule is not a prioritized list and scheduled implementation of these projects is at the discretion of the City and/or county, depending upon jurisdiction.

Pilot Rock has identified a total of 6 projects in its CIP with a cost of \$309,900.

TABLE 7-7
CAPITAL IMPROVEMENT PROGRAM (1998 DOLLARS)

		Costs (\$ X 1,000)					
Project	Location /Description	City	County	State	Private	Total	
1.	Extend North 6th St. to US 395.			\$130.0		\$130.0	
4A	Pave Hickory Street up to Fir Street	\$11.3				\$11.3	
4B.	Pave Alder Street between 5th Street and US 395	\$62.2				\$62.2	
4C.	Pave SW 4th Place and SW Cedar Street	\$25.4				\$25.4	
3.	Replace vehicle bridge over East Birch Creek on alley roadway.	\$73.5				\$73.5	
2.	Replace pedestrian bridge over West Birch Creek between Delwood Street and South 6th Street.	\$7.5				\$7.5	
Total		\$179.9		\$130.0		309.9	

#### CHAPTER 8: FUNDING OPTIONS AND FINANCIAL PLAN

The Transportation Planning Rule requires Transportation System Plans to evaluate the funding environment for recommended improvements. This evaluation must include a listing of all recommended improvements, estimated costs to implement those improvements, a review of potential funding mechanisms, and an analysis of existing sources' ability to fund proposed transportation improvement projects. Pilot Rock's TSP identifies 14 specific projects totaling over \$679,000 over the next 20 years. This section of the TSP provides an overview of Pilot Rock's revenue outlook and a review of some funding and financing options that may be available to the city of Pilot Rock to fund the improvements.

Pressures from increasing growth throughout much of Oregon have created an environment of estimated improvements that remain unfunded. Pilot Rock will need to work with Umatilla County and ODOT to finance the potential new transportation projects over the 20-year planning horizon. The actual timing of these projects will be determined by the rate of population and employment growth actually experienced by the community. This TSP assumes Pilot Rock will grow at a rate comparable to past growth, consistent with the county-wide growth forecast. If population growth exceeds this rate the improvements may need to be accelerated. Slower than expected growth will relax the improvement schedule.

## HISTORICAL STREET IMPROVEMENT FUNDING SOURCES

In Oregon, state, county, and city jurisdictions work together to coordinate transportation improvements. Table 8-1 shows the distribution of road revenues for the different levels of government within the state by jurisdiction level. Although these numbers were collected and tallied in 1991, ODOT estimates that these figures accurately represent the current revenue structure for transportation-related needs.

TABLE 8-1 SOURCES OF ROAD REVENUES BY JURISDICTION LEVEL

	Jurisdiction Level						
Revenue Source	State	County	City	Funds			
State Road Trust	58%	38%	41%	48%			
Local	0%	22%	55%	17%			
Federal Road	34%	40%	4%	30%			
Other	9%	0%	0%	4%			
Total	100%	100%	100%	100%			

Source: ODOT 1993 Oregon Road Finance Study.

At the state level, nearly half (48 percent in Fiscal Year 1991) of all road-related revenues are attributable to the state highway fund (state road trust), whose sources of revenue include fuel taxes, weight-mile taxes on trucks, and vehicle registration fees. As shown in the table, the state road trust is a considerable source of revenue for all levels of government. Federal sources (generally the federal highway trust account and federal forest revenues) comprise another 30 percent of all road-related revenue. The remaining sources of road-related revenues are generated locally, including property taxes, LIDs, bonds, traffic impact fees, road user taxes, general fund transfers, receipts from other local governments, and other sources.

As a state, Oregon generates 94 percent of its highway revenues from user fees, compared to an average of 78 percent among all states. This fee system, including fuel taxes, weight distance charges, and registration fees, is regarded as equitable because it places the greatest financial burden upon those who create the greatest need for road maintenance and improvements. Unlike many states that have indexed user fees to

inflation, Oregon has static road-revenue sources. For example, rather than assessing fuel taxes as a *percentage* of price per gallon, Oregon's fuel tax is a fixed amount (currently 24 cents) per gallon.

# Transportation Funding in Umatilla County

Historically, sources of road revenues for Umatilla County have included federal grants, state revenues, intergovernmental transfers, interest from the working fund balance, and other sources. Transportation revenues and expenditures for Umatilla County are shown in Table 8-2 and Table 8-3.

TABLE 8-2 UMATILLA COUNTY TRANSPORTATION-RELATED REVENUES

	1992-1993	1993-1994	1994-1995	1995-1996	1996-1997	1997-1998
	Actual	Actual	Actual	Actual	Budget	Budget
Beginning Balance	\$1,187,957	\$992,044	\$903,997	\$1,762,230	\$1,600,000	\$1,300,000
DMV License & Gas Tax Fees	\$2,956,777	\$3,145,649	\$3,258,762	\$3,356,616	\$3,400,000	\$3,400,000
Misc. State Receipts			\$635,655	\$222,990	\$209,000	\$219,000
National Forest Rental	\$1,061,341	\$589,248	\$534,150	\$189,902	\$180,000	\$180,000
Mineral Leasing 75%				\$125	·	-
Misc. Federal Receipts	\$1,968	\$1,670	\$1,208	\$77,681		
Interest on Invested Funds	\$72,834	\$38,672	\$77,885	\$92,220	\$75,000	\$75,000
Refunds & Reimbursements		\$75		\$338	. ,	, , , , ,
Sale of Public Lands	\$20,144	\$14,363	\$5,443	\$102	\$15,000	\$5,000
Rentals/Sale of Supplies	\$15,318	\$16,565	\$51,748	\$74,498	\$45,000	\$27,000
BLM Maintenance Agreement		\$2,000	,	,	. ,	, _ , ,
Misc. Receipts-Local	\$26,662	\$102,916	\$143,691	\$48,997		
Service Center	\$46,996	\$55,961	\$53,361	\$61,189	\$58,500	\$64,000
Rural Address fund				. ,	\$30,000	<b>+,300</b>
	\$5,389,996	\$4,959,163	\$5,665,900	\$5,886,887	\$5,612,500	\$5,270,000

Source: Umatilla County.

As shown in Table 8-2, revenues remained relatively stable (between a low of just under \$5 million in 1993-1994 to a high of nearly \$5.9 million in 1995-1996). Approximately \$3 million of the annual revenues come from the state highway fund, rising slightly from \$3 million in 1992-1993 to an estimated \$3.4 million in 1996-1997. A declining amount has come from Federal apportionment (mostly federal forest receipts). Twenty-five percent of federal forest revenue (the 25-percent fund) is returned to the counties based on their share of the total acreage of federal forests. Westside national forests in Oregon and Washington are subject to the Spotted Owl Guarantee, which limits the decline of revenues from these forests to 3 percent annually. Oregon forests under the Owl Guarantee include the Deschutes, Mount Hood, Rogue River, Siskiyou, Siuslaw, Umpqua, and Willamette national forests. Forest revenues distributed to Umatilla County are from the Umatilla and Whitman forests, not subject to the Owl Guarantee and, therefore, more difficult to predict. With a healthy working capital balance, the county has also been able to generate between \$40,000 and \$90,000 annually in interest on its invested funds.

TABLE 8-3
UMATILLA COUNTY TRANSPORTATION-RELATED EXPENDITURES

	1992-1993	1993-1994	1994-1995	1995-1996	1996-1997	1997-1998
	Actual	Actual	Actual	Actual	Budget	Budget
Personal Services	\$1,908,211	\$1,878,969	\$1,956,968	\$2,077,603	\$2,260,676	\$2,304,704
Materials and Services	\$1,897,273	\$1,961,106	\$1,564,591	\$1,735,853	\$2,131,925	\$1,972,800
Capital Outlay	\$601,846	\$225,074	\$385,176	\$404,357	\$400,000	\$400,000
Contingency					\$568,840	\$334,224
Transfer to Road Improvement	nt Fund				\$11,555	,
Transfer to General Fund						\$58,272
	4,407,330	\$4,065,149	\$3,906,735	\$4,217,813	\$5,372,996	\$5,070,000

Source: Umatilla County.

As shown in Table 8-3, Umatilla County has spent between \$225,000 and \$600,000 annually in capital improvements. The county also transfers money to a road improvement fund for larger-scale capital improvements. The bulk of expenditures in the road fund are for personal services and materials and services relating to maintenance.

In addition to the road department fund, Umatilla County has a separate bicycle path fund. Its revenues and expenditure history are shown below in Table 8-4. Like the road fund, the bicycle path fund is developing a health working capital balance, supporting additional interest income, thereby reducing its dependence on the gas taxes collected through the state highway fund.

TABLE 8-4
UMATILLA COUNTY BICYCLE PATH FUND REVENUES AND EXPENDITURES

	1994-1995	1995-1996	1996-1997	1997-1998
	Actual	Actual	Budget	Budget
Beginning Fund Balance	\$230,059	\$260,652	\$299,775	\$349,775
Resources				
DMV License & Gas Tax Fees	\$32,917	\$32,946	\$34,000	\$34,000
Interest	\$13,073	\$16,251	\$16,000	\$18,000
	\$45,989	\$49,197	\$50,000	\$52,000
Expenditures				
Materials & Services	\$15,396		\$150,000	\$100,000
Capital Outlay				
	\$15,396	\$-	\$150,000	\$100,000

Source: Umatilla County.

#### Historical Revenues and Expenditures in the City of Pilot Rock

Revenues and expenditures for the city of Pilot Rock's street fund are shown in Table 8-5 and Table 8-6. Sources of revenues available for street operations and maintenance include the state highway fund, interest from the working capital balance, and grants for specific projects.

TABLE 8-5 CITY OF PILOT ROCK STREET FUND REVENUES

	1994-1995	1995-1996	1996-1997	1997-1998
Cash on Hand	\$30,549	\$57,638	\$17,900	\$24,000
Interest	\$1,605	\$1,737	\$1,000	\$1,000
Misc. Revenue	\$73	\$1,478		\$1,000
State Hwy Fund	\$69,428	\$71,156	\$73,800	\$73,000
Jobs Plus Program			,	\$1,500
NW Cedar Grant	\$12,500	\$12,500		
	\$83,606	\$86,871	\$74,800	\$76,500

Source: The City of Pilot Rock

As shown in Table 8-5, funds from the state highway fund provide a large proportion (over 90 percent excluding grant funds) of the revenues available to the city of Pilot Rock's street fund. The city of Pilot Rock has benefited from several recent grants from the Small Cities Allocation (SCA) Grant Program. The 1996-97 and 1997-98 proposed budgets anticipate the benefit of a \$25,000 SCA grant.

TABLE 8-6 CITY OF PILOT ROCK STREET FUND EXPENDITURES

	1994-1995	1995-1996	1996-1997	1997-1998
Personal Services	\$17,727	\$19,096	\$23,970	\$25,400
Materials and Services	\$38,062	\$96,834	\$54,684	\$50,700
Capital Outlay	\$728	\$10,659	\$11,046	\$14,500
	\$56,517	\$126,589	\$89,700	\$90,600

Source: City of Pilot Rock

Most of the street fund expenditures are for maintenance, with spending disaggregated to the following categories: personal services, materials and equipment, capital outlay and transfers. The largest categories have historically been personal services and materials and equipment. The capital outlay expenditures have been limited to the amounts available from grant funds. The street fund has also transferred \$2,000 annually for the last two years. In order to ensure conservative estimates, this analysis does assume grant funding will necessarily be available in future years, as shown in the 1996-97 and 1997-98. Instead, this analysis assumes that the amount available for transfers is equivalent to the amount available for new capital expenditures.

## Transportation Revenue Outlook in the City of Pilot Rock

ODOT's policy section recommends certain assumptions in the preparation of transportation plans. In its *Financial Assumptions* document prepared in May 1998, ODOT projected the revenue of the state highway fund through year 2020. The estimates are based on not only the political climate, but also the economic structure and conditions, population and demographics, and patterns of land use. The latter is particularly important for state-imposed fees because of the goals in place under Oregon's Transportation Planning Rule (TPR) requiring a 10-percent reduction in per-capita vehicle miles of travel (VMT) in Metropolitan Planning Organizations (MPO) areas by year 2015, and a 20-percent reduction by year 2025. This requirement will affect the 20-year revenue forecast from the fuel tax. ODOT recommends the following assumptions:

• Fuel tax increases of one cent per gallon per year (beginning in year 2002), with an additional one cent per gallon every fourth year.

- Vehicle registration fees would be increased by \$10 per year in 2002, and by \$15 per year in year 2012.
- Revenues will fall halfway between the revenue-level generated without TPR and the revenue level if TPR goals were fully met.
- Revenues will be shared among the state, counties, and cities on a "50-30-20 percent" basis rather than the previous "60.05-24.38-15.17 percent" basis.
- Inflation occurs at an average annual rate of 3.6 percent (as assumed by ODOT).

Figure 8-1 shows the forecast in both current-dollar and inflation-deflated constant (1998) dollars. As highlighted by the constant-dollar data, the highway fund is expected to grow slower than inflation early in the planning horizon. until fuel-tax and vehicle-registration fee increases occur in year 2002, increasing to a rate somewhat faster than inflation through year 2015, continuing a slight decline through the remainder of the planning horizon.

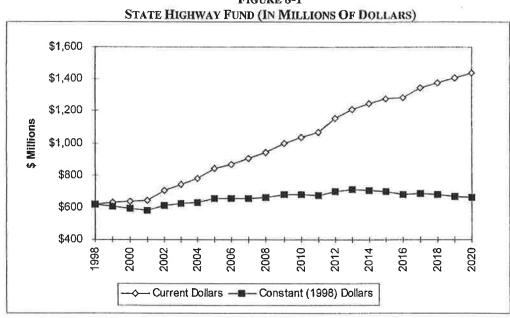


FIGURE 8-1

Source: ODOT Financial Assumptions.

As the state highway fund is expected to remain a significant source of funding for Pilot Rock, the City is highly susceptible to changes in the state highway fund. As discussed earlier, funds from the state highway fund provide a large proportion (over 90 percent excluding grant funds) of the revenues available to the City of Pilot Rock's street fund.

In order to analyze the City's ability to fund the recommended improvements from current sources, DEA applied the following assumptions:

- ODOT state highway fund assumptions as outlined above.
- The state highway fund will continue to account for the majority of the City's street fund.

- Interest and other local sources continue to provide stable revenue streams.
- The proportion of revenues available for capital expenditures for street improvements will remain a stable, but small, proportion of the state tax resources.

Applying these assumptions to the estimated level of the state highway fund resources, as recommended by ODOT, resources available to the Pilot Rock for all operations, maintenance, and capital outlay purposes are estimated at approximately \$67,000 to \$82,000 annually (in current 1998 dollars), as shown in Table 8-7.

TABLE 8-7
ESTIMATED RESOURCES AVAILABLE TO CITY OF PILOT ROCK
FROM STATE HIGHWAY FUND, 1998 DOLLARS

	Total Estimated Resources	Estimated Funds Available
Year	from State Highway Fund	for Capital Outlay
1999	\$70,500	\$2,300
2000	\$68,900	\$2,300
2001	\$67,300	\$2,200
2002	\$71,300	\$2,300
2003	\$72,200	\$2,400
2004	\$73,200	\$2,400
2005	\$76,400	\$2,500
2006	\$75,800	\$2,500
2007	\$76,200	\$2,500
2008	\$76,500	\$2,500
2009	\$78,700	\$2,600
2010	\$78,600	\$2,600
2011	\$78,300	\$2,600
2012	\$81,400	\$2,700
2013	\$82,700	\$2,700
2014	\$82,000	\$2,700
2015	\$81,300	\$2,700
2016	\$79,000	\$2,600
2017	\$79,700	\$2,600
2018	\$78,700	\$2,600
2019	\$77,800	\$2,500
2020	\$76,800	\$2,500

The amount actually received from the state highway fund will depend on a number of factors, including:

- the actual revenue generated by state gasoline taxes, vehicle registration fees, and other sources; and
- the population growth in Pilot Rock (since the distribution of state highway funds is based on an allocation formula which includes population).

Based on the amount of resources historically available to fund capital improvements this analysis suggests that the City of Pilot Rock will have between \$2,200 and 2,700 available annually for capital improvements.

#### REVENUE SOURCES

In order to finance the recommended transportation system improvements requiring expenditure of capital resources, it will be important to consider a range of funding sources. Although the property tax has

traditionally served as the primary revenue source for local governments, property tax revenue goes into general fund operations, and is typically not available for road improvements or maintenance. Despite this limitation, the use of alternative revenue funding has been a trend throughout Oregon as the full implementation of Measures 5 and 47 have significantly reduced property tax revenues (see below). The alternative revenue sources described in this section may not all be appropriate in Pilot Rock; however, this overview is being provided to illustrate the range of options currently available to finance transportation improvements during the next 20 years.

#### **Property Taxes**

Property taxes have historically been the primary revenue source for local governments. However, property tax revenue goes into general fund operations, and is not typically available for road improvements or maintenance. The dependence of local governments on this revenue source is due, in large part, to the fact that property taxes are easy to implement and enforce. Property taxes are based on real property (i.e., land and buildings) which has a predictable value and appreciation to base taxes upon. This is as opposed to income or sales taxes, which can fluctuate with economic trends or unforeseen events.

Property taxes can be levied through: 1) tax base levies, 2) serial levies, and 3) bond levies. The most common method uses tax base levies, which do not expire and are allowed to increase by 6 percent per annum. Serial levies are limited by the amounts and times they can be imposed. Bond levies are for specific projects and are limited by time based on the debt load of the local government or the project.

The historic dependence on property taxes is changing with the passage of Ballot Measure 5 in the early 1990s. Ballot Measure 5 limits the property tax rate for purposes other than payment of certain voter-approved general obligation indebtedness. Under full implementation, the tax rate for all local taxing authorities is limited to \$15 per \$1,000 of assessed valuation. As a group, all non-school taxing authorities are limited to \$10 per \$1,000 of assessed valuation. All tax base, serial, and special levies are subject to the tax rate limitation. Ballot Measure 5 requires that all non-school taxing districts' property tax rate be reduced if together they exceed \$10 per \$1,000 per assessed valuation by the county. If the non-debt tax rate exceeds the constitutional limit of \$10 per \$1,000 of assessed valuation, then all of the taxing districts' tax rates are reduced on a proportional basis. The proportional reduction in the tax rate is commonly referred to as compression of the tax rate.

Measure 47, an initiative petition, was passed by Oregon voters in November 1996. It is a constitutional amendment that reduces and limits property taxes and limits local revenues and replacement fees. The measure limits 1997-98 property taxes to the lesser of the 1995-96 tax minus 10 percent, or the 1994-95 tax. It limits future annual property tax increases to 3 percent, with exceptions. Local governments' lost revenue may be replaced only with state income tax, unless voters approve replacement fees or charges. Tax levy approvals in certain elections require 50 percent voter participation.

The state legislature created Measure 50, which retains the tax relief of Measure 47 but clarifies some legal issues. This revised tax measure was approved by voters in May 1997.

The League of Oregon Cities (LOC) estimated that direct revenue losses to local governments, including school districts, will total \$467 million in fiscal year 1998, \$553 million in 1999, and increase thereafter. The actual revenue losses to local governments will depend on actions of the Oregon Legislature. LOC also estimates that the state will have revenue gains of \$23 million in 1998, \$27 million in 1999, and increase thereafter because of increased personal and corporate tax receipts due to lower property tax deduction.

Measure 50 adds another layer of restrictions to those which govern the adoption of tax bases and levies outside the tax base, as well as Measure 5's tax rate limits for schools and non-schools and tax rate exceptions for voter

approved debt. Each new levy and the imposition of a property tax must be tested against a longer series of criteria before the collectible tax amount on a parcel of property can be determined.

## **System Development Charges**

System Development Charges (SDCs) are becoming increasingly popular in funding public works infrastructure needed for new local development. Generally, the objective of systems development charges is to allocate portions of the costs associated with capital improvements upon the developments, which increase demand on transportation, sewer or other infrastructure systems.

Local governments have the legal authority to charge property owners and/or developers fees for improving the local public works infrastructure based on projected demand resulting from their development. The charges are most often targeted towards improving community water, sewer, or transportation systems. Cities and counties must have specific infrastructure plans in place that comply with state guidelines in order to collect SDCs.

SDCs are collected when new building permits are issued. Transportation SDCs are based on trip generation of the proposed development. Residential calculations would be based on the assumption that a typical household will generate a given number of vehicle trips per day. Nonresidential use calculations are based on employee ratios for the type of business or industrial uses. The SDC revenues would help fund the construction of transportation facilities necessitated by new development.

## State Highway Fund

Gas tax revenues received from the state of Oregon are used by all counties and cities to fund roads, and road construction and maintenance. In Oregon, the state collects gas taxes, vehicle registration fees, overweight/overheight fines and weight/mile taxes and returns a portion of the revenues to cities and counties through an allocation formula. Like other Oregon cities, the city of Pilot Rock uses its state gas tax allocation to fund street construction and maintenance.

#### **Local Gas Taxes**

The Oregon Constitution permits counties and incorporated cities to levy additional local gas taxes with the stipulation that the moneys generated from the taxes will be dedicated to road-related improvements and maintenance within the jurisdiction. At present, only a few local governments (including the cities of Woodburn and The Dalles and Multnomah and Washington counties) levy a local gas tax. The city of Pilot Rock may consider raising its local gas tax as a way to generate additional road improvement funds. However, with relatively few jurisdictions exercising this tax, an increase in the cost differential between gas purchased in Pilot Rock and gas purchased in neighboring communities may encourage drivers to seek less expensive fuel elsewhere. Any action will need to be supported by careful analysis to minimize the unintended consequences of such an action.

#### Vehicle Registration Fees

The Oregon vehicle registration fee is allocated to the state, counties and cities for road funding. Oregon counties are granted authority to impose a vehicle registration fee covering the entire county. The Oregon Revised Statutes would allow Umatilla County to impose a biannual registration fee for all passenger cars licensed within the county. Although both counties and special districts have this legal authority, vehicle

registration fees have not been imposed by local jurisdictions. In order for a local vehicle registration fee program to be viable in Umatilla County, all the incorporated cities and the county would need to formulate an agreement which would detail how the fees would be spent on future road construction and maintenance.

# **Local Improvement Districts**

The Oregon Revised Statutes allow local governments to form Local Improvement Districts (LIDs) to construct public improvements. LIDs are most often used by cities to construct localized projects such as streets, sidewalks or bikeways. The statutes allow formation of a district by either the city government or property owners. Cities that use LIDs are required to have a local LID ordinance that provides a process for district formation and payback provisions. Through the LID process, the cost of local improvements is generally spread out among a group of property owners within a specified area. The cost can be allocated based on property frontage or other methods such as traffic trip generation. The types of allocation methods are only limited by the Local Improvement Ordinance. The cost of LID participation is considered an assessment against the property which is a lien equivalent to a tax lien. Individual property owners typically have the option of paying the assessment in cash or applying for assessment financing through the City. Since the passage of Ballot Measure 5, cities have most often funded local improvement districts through the sale of special assessment bonds.

#### **GRANTS AND LOANS**

There are a variety of grant and loan programs available, most with specific requirements relating to economic development or specific transportation issues, rather than for the general construction of new streets. Many programs require a match from the local jurisdiction as a condition of approval. Because grant and loan programs are subject to change and statewide competition, they should not be considered a secure long-term funding source. Most of the programs available for transportation projects are funded and administered through ODOT and/or the Oregon Economic Development Department (OEDD). Some programs that may be appropriate for the city of Pilot Rock are described below. The primary contact for information on the following programs is ODOT Region 5, which can be reached at (541) 963-3177.

## **Bike-Pedestrian Grants**

By law (ORS 366.514), all road, street or highway construction or reconstruction projects must include facilities for pedestrians and bicyclists, with some exceptions. ODOT's Bike and Pedestrian Program administers two programs to assist in the development of walking and bicycling improvements: local grants, and Small-Scale Urban Projects. Cities and counties with projects on local streets are eligible for local grant funds. An 80 percent state/20 percent local match ratio is required. Eligible projects include curb extensions, pedestrian crossings and intersection improvements, shoulder widening and restriping for bike lanes. Projects on urban state highways with little or no right of way taking and few environmental impacts are eligible for Small-Scale Urban Project Funds. Both programs are limited to projects costing up to \$100,000. Projects that cost more than \$100,000, require the acquisition of ROW, or have environmental impacts should be submitted to ODOT for inclusion in the STIP.

## **Access Management**

The Access Management Program sets aside approximately \$500,000 a year to address access management issues. One primary component of this program is an evaluation of existing approach roads to state highways.

These funds are not committed to specific projects, and priorities and projects are established by an evaluation process.

## **Enhancement Program**

This federally funded program earmarks \$8 million annually for projects in Oregon. Projects must demonstrate a link to the intermodal transportation system, compatibility with approved plans, and local financial support. A 10.27 percent local match is required for eligibility. Each proposed project is evaluated against all other proposed projects in its region. Within the five Oregon regions, the funds are distributed on a formula based on population, vehicle miles traveled, number of vehicles registered and other transportation-related criteria. The solicitation for applications was mailed to cities and counties the last week of October 1998. Local jurisdictions have until January 1999 to complete and file their applications for funding available during the 2000-2003 fiscal years that begin October 1999.

## Highway Bridge Rehabilitation or Replacement Program

The Highway Bridge Rehabilitation or Replacement Program (HBRR) provides federal funding for the replacement and rehabilitation of bridges of all functional classifications. A portion of the HBRR funding is allocated for the improvement of bridges under local jurisdiction. A quantitative ranking system is applied to the proposed projects based on sufficiency rating, cost factor, and load capacity. They are ranked against other projects statewide, and require state and local matches of 10 percent each. It includes the Local Bridge Inspection Program and the Bridge Load Rating Program.

#### **Transportation Safety Grant Program**

Managed by ODOT's Transportation Safety Section (TSS), this program's objective is to reduce the number of transportation-related accidents and fatalities by coordination a number of statewide programs. These funds are intended to be used as seed money, funding a program for three years. Eligible programs include programs in impaired driving, occupant protection, youth, pedestrian, speed, enforcement, bicycle and motorcycle safety. Every year, TSS produces a Highway Safety Plan that identifies the major safety programs, suggests countermeasures to existing safety problems, and lists successful projects selected for funding, rather than granting funds through an application process.

## Federal Transit Administration (FTA) Section 5311-Non-urbanized Area Formula Program

Section 5311 is a federally sponsored program for general public transit services in small urban and rural areas. It supports both capital and operation needs. The ODOT Public Transit Division distributes these funds. In FY00, the cities of Pendleton and Milton-Freewater received these funds to support transportation programs for the general public. The city of Pilot Rock would be eligible for these funds if it implemented intercity service or intracity services open to the general public. The recipient of these funds must provide matching funds of up to 50 percent for operating uses and up to 20 percent for capital expenses.

Section 5311(f) – Part of 5311 funds is allocated to intercity services. Intercity transit services connect communities to rail, bus and air hubs. These funds can be used for both capital and operating expenses. Local revenues must match these funds. Match requirements are the same as those for 5311 funds.

# Surface Transportation Program (STP) Funds

TEA-21, the Federal Transportation Efficiency Act for the 21<sup>st</sup> Century, that funds programs for highways and transit, permits surface transportation program funding flexibility between modes. This gives the state more latitude in selecting the modal alternatives that would best address local congestion problems. STP funds are generally limited to capital projects with a few exceptions. In non-urbanized areas ODOT has the responsibility of allocating these funds. In Pilot Rock, ODOT Region 5 makes funding decisions with public input.

## Department of Labor Welfare-to-Work Program

The US Department of Labor provides grants to communities to give transitional assistance to move welfare recipients into unsubsidized employment. One of the areas applicants are encouraged to consider is the development of responsive transportation systems to move people to work or to career training. These grants must serve at least 100 welfare recipients. The Department of Labor expects the grants to range from one million to five million dollars over a period of three years. Applications must be a coordinated effort between transportation providers and Oregon Adult and Family Services. The funding can be used for capital and operating expenses and will cover up to 50 percent of the cost of a program.

ODOT has submitted a grant application for funding for Oregon programs. ODOT identified the Bend/Redmond area as the first demonstration program. Other areas of the state may be eligible after that. To be eligible for this funding, it is essential that communities bring together local ODOT staff, transit providers and AFS staff to begin the coordination process.

# FTA Section 5310 Discretionary Grants

This program funds vehicles and other capital projects for programs that serve elderly and disabled people. In FY99 the city of Pendleton received \$36,000 to purchase a new vehicle.

#### **Special Transportation Fund**

The Special Transportation Fund (STF) awards funds to maintain, develop, and improve transportation services for people with disabilities and people over 60 years of age. Financed by a two-cent tax on each pack of cigarettes sold in the state, the annual distribution is approximately \$5 million. Three-quarters of these funds are distributed on a per-capita formula to mass transit districts, transportation districts, where such districts do not exist, and counties. The remaining funds are distributed on a discretionary basis.

#### **County Allotment Program**

The County Allotment Program distributes funds to counties on an annual basis; the funds distributed in this program are in addition to the regular disbursement of state highway fund resources. The program determines the amount of total revenue available for roads in each county and the number of road miles (but not lane miles) of collectors and arterials under each county's jurisdiction. Using these two benchmarks, a "resource-perequivalent" ratio is calculated for each county. Resources from the \$750,000 program are provided to the county with the lowest resource-per-equivalent road-mile ratio until they are funded to the level of the next-lowest county. The next-lowest county is then provided resources until they are funded to the level of the third-lowest county, and so on, until the fund is exhausted.

## **Immediate Opportunity Grant Program**

The Oregon Economic Development Department (OEDD) and ODOT collaborate to administer a grant program designed to assist local and regional economic development efforts. The program is funded to a level of approximately \$7 million per year through state gas tax revenues. The following are primary factors in determining eligible projects:

- Improvement of public roads.
- Inclusion of an economic development-related project of regional significance.
- Creation or retention of primary employment.
- Ability to provide local funds (50/50) to match grant.
- Improvement to the quality of the community.

The maximum amount of any grant under the program is \$500,000. Local governments that have received grants under the program include Washington County, Multnomah County, Douglas County, the city of Hermiston, port of St. Helens, and the city of Newport.

## **Oregon Special Public Works Fund**

The Special Public Works Fund (SPWF) program was created by the 1995 State Legislature as one of several programs for the distribution of funds from the Oregon Lottery to economic development projects in communities throughout the state. The program provides grant and loan assistance to eligible municipalities primarily for the construction of public infrastructure which support commercial and industrial development that result in permanent job creation or job retention. To be awarded funds, each infrastructure project must support businesses wishing to locate, expand, or remain in Oregon. SPWF awards can be used for improvement, expansion, and new construction of public sewage treatment plants, water supply works, public roads, and transportation facilities.

While SPWF program assistance is provided in the form of both loans and grants, the program emphasizes loans in order to assure that funds will return to the state over time for reinvestment in local economic development infrastructure projects. Jurisdictions that have received SPWF funding for projects that include some type of transportation-related improvement include the cities of Baker City, Bend, Cornelius, Forest Grove, Madras, Portland, Redmond, Reedsport, Toledo, Wilsonville, Woodburn, and Douglas County.

#### Oregon Transportation Infrastructure Bank

The Oregon Transportation Infrastructure Bank (OTIB) program is a revolving loan fund administered by ODOT to provide loans to local jurisdictions (including cities, counties, special districts, transit districts, tribal governments, ports, and state agencies). Eligible projects include construction of federal-aid highways, bridges, roads, streets, bikeways, pedestrian accesses, and right of way costs. Capital outlays such as buses, light-rail cars and lines, maintenance years and passenger facilities are also eligible.

#### **ODOT FUNDING OPTIONS**

The state of Oregon provides funding for all highway related transportation projects through the Statewide Transportation Improvement Program (STIP) administered by the Oregon Department of Transportation. The STIP outlines the schedule for ODOT projects throughout the state. The STIP, which identifies projects for a three-year funding cycle, is updated on an annual basis. Starting with the 1998 budget year, ODOT will then identify projects for a four-year funding cycle. In developing this funding program, ODOT must verify that the identified projects comply with the Oregon Transportation Plan (OTP), ODOT Modal Plans, Corridor Plans, local Comprehensive Plans, and TEA-21 planning requirements. The STIP must fulfill federal planning requirements for a staged, multi-year, statewide, intermodal program of transportation projects. Specific transportation projects are prioritized based on federal planning requirements and the different state plans. ODOT consults with local jurisdictions before highway related projects are added to the STIP.

The highway-related projects identified in Pilot Rock's TSP will be considered for future inclusion on the STIP. The timing of including specific projects will be determined by ODOT based on an analysis of all the project needs within Region 5. The city of Pilot Rock, Umatilla County, and ODOT will need to communicate on an annual basis to review the status of the STIP and the prioritization of individual projects within the project area. Ongoing communication will be important for the city, county, and ODOT to coordinate the construction of both local and state transportation projects.

ODOT also has the option of making some highway improvements as part of their ongoing highway maintenance program. Types of road construction projects that can be included within the ODOT maintenance programs are intersection realignments, additional turn lanes, and striping for bike lanes. Maintenance related construction projects are usually done by ODOT field crews using state equipment. The maintenance crews do not have the staff or specialized road equipment needed for large construction projects.

An ODOT funding technique that will likely have future application to Pilot Rock's TSP is the use of state and federal transportation dollars for off-system improvements. Until the passage and implementation of ISTEA, state and federal funds were limited to transportation improvements within highway corridors. ODOT now has the authority and ability to fund transportation projects that are located outside the boundaries of the highway corridors. The criteria for determining what off-system improvements can be funded has not yet been clearly established. It is expected that this new funding technique will be used to finance local system improvements that reduce traffic on state highways or reduce the number of access points for future development along state highways.

#### FINANCING TOOLS

In addition to funding options, the recommended improvements listed in this plan may benefit from a variety of financing options. Although often used interchangeably, the words financing and funding are not the same. Funding is the actual generation of revenue by which a jurisdiction pays for improvements, some examples include the sources discussed above: property taxes, SDCs, fuel taxes, vehicle registration fees, LIDs, and various grant programs. In contrast, financing refers to the collecting of funds through debt obligations.

There are a number of debt financing options available to the city of Pilot Rock. The use of debt to finance capital improvements must be balanced with the ability to make future debt service payments and to deal with the impact on its overall debt capacity and underlying credit rating. Again, debt financing should be viewed not as a source of funding, but as a time shifting of funds. The use of debt to finance these

transportation-system improvements is appropriate since the benefits from the transportation improvements will extend over the period of years. If such improvements were to be tax financed immediately, a large short-term increase in the tax rate would be required. By utilizing debt financing, local governments are essentially spreading the burden of the costs of these improvements to more of the people who are likely to benefit from the improvements and lowering immediate payments.

## **General Obligation Bonds**

General obligation (GO) bonds are voter-approved bond issues, which represent the least expensive borrowing mechanism available to municipalities. GO bonds are typically supported by a separate property tax levy specifically approved for the purposes of retiring debt. The levy does not terminate until all debt is paid off. The property tax levy is distributed equally throughout the taxing jurisdiction according to assessed value of property. GO debts typically are used to make public improvement projects that will benefit the entire community.

State statutes require that the GO indebtedness of a city not exceed 3 percent of the real market value of all taxable property in the city. Since GO bonds would be issued subsequent to voter approval, they would not be restricted to the limitations set forth in Ballot Measures 5, 47, and 50. Although new bonds must be specifically voter approved, Measure 47 and 50 provisions are not applicable to outstanding bonds, unissued voter-approved bonds, or refunding bonds.

#### **Limited Tax Bonds**

Limited tax general obligation (LTGO) bonds are similar to GO bonds in that they represent an obligation of the municipality. However, a municipality's obligation is limited to its current revenue sources and is not secured by the public entity's ability to raise taxes. As a result, LTGO bonds do not require voter approval. However, since the LTGO bonds are not secured by the full taxing power of the issuer, the limited tax bond represents a higher borrowing cost than GO bonds. The municipality must pledge to levy the maximum amount under constitutional and statutory limits, but not the unlimited taxing authority pledged with GO bonds. Because LTGO bonds are not voter approved, they are subject to the limitations of Ballot Measures 5, 47, and 50.

### **Bancroft Bonds**

Under Oregon Statute, municipalities are allowed to issue Bancroft bonds, which pledge the City's full faith and credit to assessment bonds. As a result, the bonds become general obligations of the City but are paid with assessments. Historically, these bonds provided a city with the ability to pledge its full faith and credit in order to obtain a lower borrowing cost without requiring voter approval. However, since Bancroft bonds are not voter approved, taxes levied to pay debt service on them are subject to the limitations of Ballot Measures 5, 47, and 50. As a result, since 1991, Bancroft bonds have not been used by municipalities that were required to compress their tax rates.

## **FUNDING REQUIREMENTS**

Pilot Rock's TSP identifies both capital improvements and strategic efforts recommended during the next 20 years to address safety and access problems and to expand the transportation system to support a growing population and economy. The TSP identifies 6 projects, totaling an estimated \$309,900. One of the

projects, that affects traffic operations around US 395, has identified state funding for the recommended project. The balance of the projects are within the City's jurisdiction and will require the City to take the financial lead.

Estimated costs by project are shown in Table 8-8.

TABLE 8-8
RECOMMENDED PROJECTS AND FINANCIAL RESPONSIBILITY

			Costs	s (\$ X 1,	000)	
Project	Location /Description	City	County	State	Private	Total
1.	Extend North 6th St. to US 395.			\$130.0		\$130.0
4A	Pave Hickory Street up to Fir Street	\$11.3				\$11.3
4B.	Pave Alder Street between 5th Street and US 395	\$62.2				\$62.2
4C.	Pave SW 4th Place and SW Cedar Street	\$25.4				\$25.4
3.	Replace vehicle bridge over East Birch Creek on alley roadway.	\$73.5				\$73.5
2.	Replace pedestrian bridge over West Birch Creek between Delwood	\$7.5				\$7.5
Total				\$130.0	\$	\$309.9
		\$179.9				

Notes:

The city of Pilot Rock is expected to be able to fund projects of up to approximately \$52,800 over the 20-year planning horizon. Based on current revenue sources for the city of Pilot Rock and the improvements identified in this Transportation System Plan, the City would face a funding deficit of \$127,100, as shown in Table 8-9.

TABLE 8-9
ESTIMATED CAPITAL FUNDING BALANCE

	Amount
Capital Available from Existing Revenue Sources	\$52,800
Capital Needed to Fund Projects Identified as City-Funded Projects	\$179,900
Surplus (Deficit)	(\$127,100)

Given the existing cost estimates, the resources available as estimated in Table 6, and financial partners currently identified, Pilot Rock is expected to experience a funding deficit of over \$127,100 over the 20-year planning period. Some of the projects may be eligible for alternative funding sources. For example, one project serves to enhance the pedestrian connectivity of the City, making it potentially eligible for bike and pedestrian funding, as described earlier in this chapter., a pedestrian bridge over East Birch. Securing grant funding for this project, estimated to total \$7,500 would allow the city of Pilot Rock to implement these projects within the 20-year planning horizon. Additional analysis would be required to evaluate the feasibility of this funding option.

<sup>(1)</sup> To be determined at a later time.

This Transportation System Plan identifies 6 projects recommended over the next 20 years. Based on existing revenue sources and the estimated costs to implement the improvements, the city of Pilot Rock is expected to experience a budget shortfall of over \$127,100 over the 20-year planning horizon. The City will need to work with Umatilla County and ODOT to explore alternative funding sources, including SDCs, bike and pedestrian grants, and other programs described in this chapter, to implement the recommended improvements.

## CHAPTER 9: RECOMMENDED POLICIES AND ORDINANCES

In 1991, the Oregon Transportation Planning Rule was adopted to implement State Planning Goal 12 — Transportation (amended in May and September 1995). The Transportation Planning Rule requires counties and cities to complete a Transportation System Plan (TSP) that includes policies and ordinances to implement that plan. The city of Pilot Rock Comprehensive Plan, Zoning Ordinance, and Subdivision Ordinance was revised in 1986. The Transportation discussion in the Comprehensive Plan has not been significantly updated since the implementation of the Transportation Planning Rule. The City's ordinances also need updating to meet the requirements of the Transportation Planning Rule and this TSP.

## ELEMENTS REQUIRED BY THE TRANSPORTATION PLANNING RULE

The applicable portion of the Transportation Planning Rule is found in Section 660-12-045: Implementation of the Transportation System Plan. In summary, the Transportation Planning Rule requires that local governments revise their land use regulations to implement the Transportation System Plan in the following manner:

- Amend land use regulations to reflect and implement the Transportation System Plan.
- Clearly identify which transportation facilities, services, and improvements are allowed outright, and which will be conditionally permitted or permitted through other procedures.
- Adopt land use or subdivision ordinance measures, consistent with applicable federal and state requirements, to protect transportation facilities, corridors and sites for their identified functions, that include the following topics:
  - ⇒ access management and control;
  - ⇒ protection of public use airports;
  - ⇒ coordinated review of land use decisions potentially affecting transportation facilities;
  - ⇒ conditions to minimize development impacts to transportation facilities;
  - ⇒ regulations to provide notice to public agencies providing transportation facilities and services of land use applications that potentially affect transportation facilities; and
  - ⇒ regulations assuring that amendments to land use applications, densities, and design standards are consistent with the Transportation System Plan.
- Adopt land use or subdivision regulations for urban areas and rural communities to provide safe and convenient pedestrian and bicycle circulation and bicycle parking, and to ensure that new development provides on-site streets and accessways that provide reasonably direct routes for pedestrian and bicycle travel.
- Establish street standards that minimize pavement width and total right-of-way.

These elements are discussed in the following sections, where they are grouped by similarity in terms of appropriate policy and ordinance.

## APPROVAL PROCESSES FOR TRANSPORTATION FACILITIES

Section 660-12-045(1) of the Transportation Planning Rule requires that cities and counties amend their land use regulations to conform with the jurisdiction's adopted Transportation System Plan. This section of the Transportation Planning Rule is intended to clarify the approval process for transportation-related projects.

## **Recommended Policies for Approval Process**

Policies should clarify the approval process for different types of projects. The following policies are recommended to be adopted in the Pilot Rock Comprehensive Plan:

- The Transportation System Plan is an element of the city of Pilot Rock Comprehensive Plan. It identifies the general location of transportation improvements. Changes in the specific alignment of proposed public road and highway projects that shall be permitted without plan amendment if the new alignment falls within a transportation corridor identified in the Transportation System Plan.
- Operation, maintenance, repair, and preservation of existing transportation facilities shall be allowed without land use review, except where specifically regulated.
- Dedication of right-of-way, authorization of construction and the construction of facilities and improvements for projects authorized in the Transportation System Plan, the classification of the roadway and approved road standards shall be allowed without land use review.
- For state projects that require an Environmental Impact Statement (EIS) or Environmental Assessment (EA), the draft EIS or EA shall serve as the documentation for local land use review, if local review is required.

## Recommended Ordinances for Approval Process

Projects that are specifically identified in the Transportation System Plan and for which the jurisdiction has made all the required land use and goal compliance findings are permitted outright, subject only to the standards established by the Plan.

A. However, a city may not allow outright an improvement that is included in the Transportation System Plan but for which no site-specific decisions have been made. Therefore, it is recommended that small jurisdictions review these transportation projects within the Urban Growth Boundary as regulated land use actions, using conditional use process.

## PROTECTING EXISTING AND FUTURE OPERATION OF FACILITIES

Section 60-12-045(2) of the Transportation Planning Rule requires that jurisdictions protect future operation of transportation corridors. For example, an important arterial for through-traffic should be protected in order to meet the community's identified needs. In addition, the proposed function of a future roadway must be protected from incompatible land uses.

Other future transportation facilities that the city of Pilot Rock may wish to protect include the space and building orientation necessary to support future transit, and right-of-ways or other easements for accessways, paths, and trails.

Protection of existing and planned transportation systems can be provided by ongoing coordination with other relevant agencies, adhering to the road standards, and to the access management policies and ordinances suggested below. Comprehensive Plan Policies will be established by the City of Pilot Rock and incorporated into the Comprehensive Plan to protect existing and future operation of transportation facilities.

## Recommended Access Control Ordinances

Appropriate provisions to provide access management should be included in a revised Section 3.94 of the City of Pilot Rock Zoning Ordinance.

## PROCESS FOR COORDINATED REVIEW OF LAND USE DECISIONS

• A lack of coordination between state and local decision processes can result in costly delays and changes in public road and highway projects, as well as some maintenance and operation activities. Section 660-12-045(2)(d) of the Transportation Planning Rule requires that jurisdictions develop a process for the coordinated review of land use decisions affecting transportation facilities.

## Recommended Process for Applying Conditions to Development Proposals

Section 660-12-045(2)(e) of the Transportation Planning Rule requires that jurisdictions develop a process to apply conditions to development proposals in order to minimize impacts on transportation facilities.

The site plan review process is a useful tool for a small jurisdiction. The city of Pilot Rock may want to amend its site plan review process so that it requires applicants to provide data on the potential traffic impacts of a project through a traffic impact study or, at least, an estimation of the number of trips expected to be generated. Recommended language to be included under site plan criteria is as follows:

- The proposed use shall not impose an undue burden on the public transportation system. For developments that are likely to generate more than 400 average daily motor vehicle trips (ADTs), the applicant shall provide adequate information, such as a traffic impact study or traffic counts, to demonstrate the level of impact to the surrounding street system. The developer shall be required to mitigate impacts attributable to the project.
- The determination of impact or effect and the scope of the impact study should be coordinated with the provider of the affected transportation facility.

If the city of Pilot Rock decides to implement a Site Plan review process, conditions such as the following may be included in the ordinance, to be applied in the event that a proposed project is demonstrated to have potentially adverse effects on the transportation system. These are additional to the conditions imposed by the recommended Access Management Ordinance included previously.

Dedication of land for streets, transit facilities, sidewalks, bikeways, paths, or accessways shall be
required where the existing transportation system will be impacted by or is inadequate to handle the
additional burden caused by the proposed use.

 Improvements such as paving, curbing, installation or contribution to traffic signals, construction of sidewalks, bikeways, accessways, paths, or streets that serve the proposed use where the existing transportation system may be burdened by the proposed use.

## Recommended Regulations to Provide Notice to Public Agencies

Review of land use actions is typically initiated by a notice. This process is usually defined by a procedures ordinance or noticing policy. This ordinance or policy should be amended to provide for notice to ODOT regarding any land use action on or adjacent to US 395. This provision should be included in Article 12: Administrative Provisions of the Pilot Rock Zoning Ordinance. Similarly, all actions by the City potentially affecting a county road should provide notice to Umatilla County.

Information that should be conveyed to reviewers includes:

- Project location.
- Proposed land use action.
- Location of project access point(s).

## Recommended Regulations to Assure that Amendments are Consistent with the Transportation System Plan

Section 660-12-045(2)(g) of the Transportation Planning Rule requires that jurisdictions develop regulations to assure that all development proposals, plan amendments, or zone changes conform with the Transportation System Plan. This requirement can be addressed by adding a policy to the Comprehensive Plan, as follows:

• All development proposals, plan amendments, or zone changes shall conform with the adopted Transportation System Plan.

Within the zoning ordinance, development proposals can be addressed through site plan review, discussed above. Zone changes and plan amendments can be partially addressed by the following language:

The applicant must show that the proposed change conforms with the Comprehensive Plan.

The following statements should be added to the local ordinance and policy language governing zone changes and plan amendments:

- A. A plan or land use regulation amendment significantly affects a transportation facility if it:
  - 1. Changes the functional classification of an existing or planned transportation facility;
  - 2. Changes standards implementing a functional classification system;
  - 3. Allows types or levels of land use that would result in levels of travel or access that are inconsistent with the functional classification of a transportation facility; or

- 4. Would reduce the level of service of the facility below the minimum acceptable level identified in the Transportation System Plan.
- B. Amendments to the Comprehensive Plan and land use regulations which significantly affect a transportation facility shall assure that allowed land uses are consistent with the function, capacity, and level of service of the facility identified in the Transportation System Plan. This shall be accomplished by one of the following:
  - 1. Limiting allowed land uses to be consistent with the planned function of the transportation facility.
  - 2. Amending the Transportation System Plan to ensure that existing, improved, or new transportation facilities are adequate to support the proposed land uses consistent with the requirement of the Transportation Planning Rule; or
  - 3. Altering land use designations, densities, or design requirements to reduce demand for automobile travel and meet travel needs through other modes.

## SAFE AND CONVENIENT PEDESTRIAN AND BICYCLE CIRCULATION

Bicycling and walking are often the most appropriate mode for short trips. Especially in small cities where the downtown area is compact, walking and bicycling can replace short auto trips, reducing the need for construction and maintenance of new roads. However, the lack of safe and convenient bikeways and walkways can be a strong discouragement to use these mode choices. The Transportation Planning Rule (660-12-045(3)) requires that urban areas and rural communities plan for bicycling and walking as part of the overall transportation system.

## Recommended Ordinances for Bicycle and Pedestrian Circulation and Access

Sections 660-12-045(3)(b), (c), and (d) of the Transportation Planning Rule deals with providing facilities for safe and convenient pedestrian and bicycle circulation and access, both within new residential and commercial development, and on public streets. In order for walking and bicycling to be viable forms of transportation, especially in smaller cities where they can constitute a significant portion of local trips, the proper facilities must be supplied. In addition, certain development design patterns, such as orienting commercial uses to the street and placing parking behind the building, make a commercial district more accessible to non-motorized transportation and to existing or future transit.

A. The Transportation Planning Rule specifies that, at a minimum, sidewalks and bikeways be provided along arterials and collectors in urban areas. Separate bicycle and pedestrian facilities should be provided where these would safely minimize trips distances by providing a "short cut." Small cities should enhance existing ordinances by including language, additions and recommendations. The recommendations should be placed within the appropriate section of the Pilot Rock zoning ordinance (Section 1.5) or subdivision ordinance (Section 1.13).

If the city of Pilot Rock decides to implement a Site Plan review process, it should include a requirement to show the design and location of bicycle parking and bicycle and pedestrian circulation elements such as accessways and walkways.

## APPENDIX A

## **Pilot Rock Plans**

### PILOT ROCK PLANS

## Pilot Rock Comprehensive Plan

The Pilot Rock Comprehensive Plan was adopted in 1978, and amended in 1986. The plan provides goals and policies for guiding the future growth and development of the city. Two of the city's 13 goals strongly impact the development of the Transportation System Plan-- Goal K: Transportation and Goal J: Public Facilities and Services.

## Goal K: Transportation

To provide and encourage a safe, convenient and economic transportation system.

## **Policies**

- 1. To repave city streets and provide curbs and sidewalks as resources are available.
- 2. To encourage development and use of alternate means of transportation to the private automobile.
- 3. To work with ODOT to minimize conflicts between through and local traffic on US Highway 395, to reduce traffic hazards and expedite the flow of traffic by limiting access to and from the highway with the Urban Growth Area, and planning for adequate access to property adjacent to the highway.
- 4. To development of good transportation linkages (vehicular, pedestrian, bicycle, etc.) between residential areas and major activity centers.
- 5. To encourage the continuing availability of rail transportation linkages to mainline services. (Note: There is no active rail service to Pilot Rock at this time.)
- 6. To work with Umatilla County to develop joint policies concerning local roads and streets within the Urban Growth Boundary.
- 7. To adopt the recommendation in the Oregon Department of Transportation Six-Year Highway Improvement Plan that occurs within the Urban Growth Boundary.

### Goal J: Public Facilities and Services

To plan and develop a timely, orderly, and efficient arrangement of public facilities and services to serve as a framework for urban development.

## Applicable Policies

7. To develop, maintain, update, and expand police and fire services, streets and sidewalks, water and sewer systems, and storm drains as necessary to provide adequate facilities and services to the community.

## Pilot Rock Technical Report

The Pilot Rock Technical Report offers background information for the city regarding the natural environment, the socioeconomic environment (including population indicators) and establishment of the Urban Growth Boundary (UGB). The report contains road classifications for roadways through the city. The classifications are listed in the Appendix: Table X: 1997 Major Street Inventory. This report was last revised in 1986. Therefore, much of the data is now outdated.

Key finding regarding transportation facilities include the following:

- Approximately 80 percent of Pilot Rock's existing streets are paved. These streets are mainly paved to 20 feet and a few major collector streets are paved to 24 foot widths.
- There are few existing curbs or sidewalks in Pilot Rock. The ones which do exist consist mainly of short lengths of the downtown section Highway 395.
- The major road access provided to Pilot Rock is through US Highway 395. Two county roads also access the areas: County Road # 1375 and # 1386.
- The roadways allow easy access to highway transportation facilities which link the city with regional production, distribution, and marketing centers.
  - The development of Pilot Rock is constricted by natural hazards. Pilot Rock is situated at the confluence of three creeks. East and West Birch Creek come together just north of the downtown area and form Birch Creek. Also, Wegner Creek flows into East Birch Creek near the southern city limits. The floodplains and natural habitats associated with the creeks has limited development. The city has zoned much of the area for permanent open space.
- The basalt rock formation on the west side of town has steep slopes which constrain development.

## **Pilot Rock Subdivision Ordinance**

The City of Pilot Rock Subdivision Ordinance was adopted in 1986. It regulates all subdivisions and partitions of lands, within the city limits. (Umatilla County is responsible for regulating subdivision and partitions outside of the city limits but within the urban growth boundary. However, the city reviews and comments on all plans, plats, or maps for those areas.) It also regulates the construction of new or undeveloped streets within the city and urban growth boundary.

The ordinance explains the Pilot Rock street classifications. The different streets are defined as:

Alley: A narrow street through a block primarily for vehicular service access to the back or side of properties otherwise abutting on another street.

Arterial: A street of considerable continuity which is primarily a traffic artery for travel between large areas.

<u>Collector:</u> A street supplementary to the arterial street system and a means of travel between this system and smaller areas, used to some extent for through traffic and to some extent for access to abutting properties.

Cul-de-sac: A short street having one end to traffic and being terminated by a vehicle turn-around.

Local Street: A street intended primarily for access to abutting properties.

Marginal Access Street: A local street parallel and adjacent to an arterial street providing access to abutting properties, but protected from through traffic.

The Ordinance lists general requirements and design standards for streets. General requirements include the frontage requirements, grading, topography and arrangement of streets, road names, sign requirements, and street light requirements. Design standards include widths for rights-of-way, pavement, grade, speed, and sidewalks as follows:

	ROAD DESI	GN STANDARDS	- BUSINESS/IN	DUSTRIAL	
Road Classification	Minimum Right-of-way	Minimum Surface Width	Maximum Grade	Speed	Sidewalks
Arterial Street	100 ft	48 ft	5 %	45 mph	Both sides 6 ft
Collector Street	70 ft	44 ft	7 %	40 mph	Both sides 6 ft
Local Street	60 ft	38 ft	8 %	30 mph	Both sides 6 ft
Alleys	24 ft	24 ft	nl	nl	nl

nl - no standard listed

	ROAD	DESIGN STANDA	RDS - RESIDEN	NTIAL	
Road Classification	Minimum Right-of-way	Minimum Surface Width	Maximum Grade	Speed	Sidewalks
Arterial Street	80 ft	44 ft	8 %	40	Both sides 4 ft
Collector Street	60 ft	38 ft	10 %	35	Optional*
Local Street	50 ft	38 ft	12 %	25	Optional*
Alleys	20 ft	20 ft	nl	nl	nl

nl - no standard listed

Subdivisions are required to provide frontage on and access from an existing street. Streets shall be improved to City, County or State standards. Sidewalks may be required at the discretion of the City Council on local or collector residential streets.

Pedestrian accesses may be required by the City Council to facilitate pedestrian access from streets to schools, parks, playgrounds, or other nearby streets. These are perpetual unobstructed easements at least 20 feet in width. The City Council may also require installation of separate bicycle lanes within streets or on separate paths.

<sup>\*</sup> Sidewalks may be required by the City Council on these streets.

## Pilot Rock Zoning Ordinance

The Pilot Rock Zoning Ordinance was adopted in 1986.

The purported purpose of Zoning Ordinance is as follows:

promoting the public health, safety, and welfare; to encourage the most appropriate use of property within the city; to stabilize and protect the value of property; to provide adequate light and air; to prevent overcrowding; to lessen traffic congestion; to facilitate adequate and economical provision for public improvements, all to implement the Comprehensive Plan of the City of Pilot Rock; to provide a method of administration and to provide penalties for violation of the provision herein.

The Ordinance contains 12 sections. The only section that applies directly to the transportation is the section on off-street parking and loading.

## APPENDIX B

**Major Streets Inventory** 

				1997 MA.	ORSTR	1997 MAJOR STREETS INVENTORY	ENTORY							
				Pilot	Back Transpo	Pilot Rock Transportation System Plan	Plan							
			Speed	Street	No. of	Passing		Shoulders						1997
Described Comment   Institut	.lurisdiction	Level of	Limit (moh)	Width	Travel	Lanes (direction)	Width	Side	Pavino	On-Street Parking	Curbs	Sidewalks	Bikeway	Pavement Condition*
Arterials														
				-										1
US 395 (Pendleton-John Day Hwy) NE HCR limite to NE City Limits DAP 14 Ed.	Sign	Statewide	100	32	2	No	4-6	N.	NA.	No	No	No	No	Fair
MP 14 64 to ME 4th Street	State	Statewide	30-40	32	2	No	4-6	NA AN	NA	No	S	No	No	Fair
NE 4th Street to Main Street to SW Birch St.	State	Statewide	25	48 -56	4	No	4-6	AN	NA	No	No	No	No	Fair
Main Street to 4th Place to SW Birch St. 4th Place to SW UGB Limits to SW Birch Pl.	State	Statewide Statewide	25	32	2 2	N N	4 9 9	NA A	NA	No	East side No	Both Sides Na	N N	Fair Fair
Major Collectors														
Aider Street														
NW 2nd Street to Main Street	City	NA	25	18	7	% %	No	NA	NA	No	ž	No	Š	Poor
N Alder Place NW 2nd Street and Main Street	City	NA	25	94	2	2	N N	Z A	N.	Yes	Yes	Both sides (1/2 block)	N <sub>0</sub>	Fair
County Road No. 1375 to SW Birch StdE Birch Creek Rd US 395 junction to South UGB Limits	County	ď.	25	24	2	No	Š	NA	NA	No	No	ž	ટ્ર	Fair
Cedar StreetMill Street 2nd Street to Masonite Corporation Driveway	Cirk	ž	25	30	77	No	No No	NA	NA	No No	Š	No	Yes	Good Coverav in 1996
Circle Road Mascatic Corp. Driveway to NW UGB Limits	County	Ϋ́Z	25	28	2	No	Š	NA	NA	No	No No	No	Š Š	Fair
Main Street Alder Street to SW Birch Street	City	NA	25	70	2	No	SN N	NA A	NA	diagonal	Yes	Both Sides	No	Fair
5th Street Alder Street in Cherry Street	È	Ϋ́	25	<u>«</u>	2 :	Š	ž	₹Z	4Z	2	, S	Ŋ	2	Poor
Cherry Street to SE UGB City Limits	City	NA	25	22	2	No	% N	NA	N.A.	ž	oN.	Š	%	Fair
Coonty Road No. 1150 to 4th Street/Stewart Creek Road Ein Street to E. USB Limits	County	NA	25	24	2	No	o Z	NA	NA	N <sub>o</sub>	8	No	No.	Fair
Alder Street Main Street to 5th Street	City	NA	25	18	2	N <sub>O</sub>	No	NA	NA	N <sub>O</sub>	Š	West Side	S.	Poor
Minor Collectors														
SW 2nd Street SW Birch Street to Delwood Street	City	ĄZ	25	22	2	No	S.	A'A	A Z	No No	No	Both Sides (poor)	N.	Fair

		THE PERSON NAMED IN		(997 MAJ	OR STR	1997 MAJOR STREETS INVENTORY	ENTORY						- CONTROL -	
				Pilat	Rock Transp	Pilot Bock Transportation System Plan	Plan							
			Speed	Street	No. of	Passing		Shoulders						7661
		Level of	Limit	Width	Travel	Lanes	Width			On-Street				Pavement
Roadway Segment Location	Jurisdiction	Importance	(mph)	(feet)	Lanes	(direction)	(feet)	Side	Paving	Parking	Curbs	Sidewalks	Bikeway	Condition*
Charry Street														
NE 4th Street to SE 5th Street	City	NA	25	24	2	No	No	NA	NA	&	No	No	%	Poor
Delwood Street														
SE 2nd to south end of street	City	NA	25	81	2	No	No	NA	NA	S.	No	No	8	Fair
Em Street														
NE 4th Street to US 395	Citry	NA	25	22	2	Š	No	NA	NA	Ñ	SN N	No	ž	Fair

## APPENDIX C

## **Umatilla County Population Discussion**

## **Umatilla County Population Discussion**

## METHODOLOGY AND DATA SOURCES

Population estimates and projections were developed from historical data, official annual estimates, official long-range forecasts, and an impact analysis of four major employers entering or expanding in western Umatilla County. Historical data are compiled as reported by the Census Bureau. Portland State University's Center for Population Research and Census developed annual population estimates for cities and counties for the purpose of allocating certain state tax revenues to cities and counties. The State of Oregon Office of Economic Analysis (OEA) provided long-term (through year 2040) state population forecasts, disaggregated by county, for state planning purposes.

The Office of Economic Analysis used business-cycle trends (as reflected by the Employment Department's employment forecasts) as the primary driver of population and employment for the short term. For the long term, the forecasts shift to a population-driven model, which emphasizes demographics of the resident population, including age and gender of the population, with assumptions regarding life expectancy, fertility rate, and immigration. DEA used a methodology based on OEA's county-distribution methodology in developing population and employment forecasts for each of the cities in Umatilla County. DEA calculated a weighted average growth rate for each jurisdiction (weighting recent growth more heavily than past growth) and combined this average growth rate with the projected county-wide growth rate. This methodology assumes convergence of growth rates because of the physical constraints of any area to sustain growth rates beyond the state or county average for long periods of time. These constraints include availability of land and housing, congestion, and other infrastructure limitations.

These preliminary forecasts were used as a basis for discussion with individuals who have local knowledge and expertise. The projections were then revised based on local input and analysis. One element that had a significant impact on the population analysis was the HUES (Hermiston, Umatilla, Echo, and Stanfield) Growth Impact Study, conducted by the Benkendorf Associates Corporation, Hobson Johnson & Associates, and Martin Davis Consulting, which quantifies the impact of the construction and operation of four major employers.

As required by state policy, this forecast is consistent with the State of Oregon Office of Economic Analysis forecast at the end of the 20-year planning period. Because of the impact of the four large employers, however, the growth of Umatilla County will occur faster in the beginning of the planning horizon, slowing to compensate near the end of the planning period.

These population and employment forecasts were developed to determine future transportation needs. The amount of growth, and where it occurs, will affect traffic and transportation facilities in the study area. This report is not intended to provide a

complete economic forecast or housing analysis, and it should not be used for any purpose other than that for which it was designed.

## CURRENT POPULATION AND EMPLOYMENT LEVEL

Estimated at 65,500 in 1997, the population of Umatilla County has grown relatively rapidly since the 1990 Census, with an average annual growth rate of over one-and-one-half percent. The following table shows the estimated change in population for Umatilla County and the jurisdictions of Adams, Athena, Echo, Helix, Pilot Rock, Stanfield, Ukiah, and Weston for 1990 and 1996.

Umatilla County Population Level 1990 and 1996

			1990-1997	Change
	1990	1997	Number	CAARG*
Umatilla County	59,249	65,500	6,251	1.4%
Adams	223	265	42	2.5%
Athena	997	1,120	123	1.7%
Echo	499	585	86	2.3%
Helix	150	190	40	3.4%
Pilot Rock	1,478	1,585	107	1.0%
Stanfield	1,568	1,770	202	1.7%
Ukiah	250	240	-10	-0.6%
Weston	606	680	74	1.6%

<sup>\*</sup> Compound Average Annual Rate of Growth

Source: Portland State University Center for Population Research and Census.

Most of the jurisdictions in Umatilla County have grown at a healthy rate, comparable to the annual growth rate of 1.4 percent for the county overall. The smaller jurisdictions of Adams and Helix have grown at a slightly faster rate, starting from the smaller population bases of 223 (Adams) and 150 (Helix) in 1990.

## Populations with Specific Transportation Needs

Certain populations have been identified as having more intensive transportation needs than the general population. These populations include people under the legal driving age, those under the poverty level, and those with mobility limitations.

As stated above, Portland State University's Center for Population and Census estimates the Umatilla County's population as 65,500 in 1997. The Center further estimates that 18,623 of these people, or about 28 percent of the population, is under the age of 18 and that 5,505 are under age 5. Because the purpose of this analysis is to determine the number of people with specific transportation needs, DEA used PSU's age disaggregation to estimate that 16,617 people are under 16, the legal driving age in Umatilla County.

According to the 1990 Census, 16.5 percent of the 57,046 persons living in Umatilla County (for whom poverty status is determined) were below poverty level. Poverty statistics are based on a threshold of nutritionally-adequate food plans by the Department of Agriculture for the specific size of the family unit in question. The distribution of the population below poverty level shows that a larger proportion of younger persons than older populations are affected by this indicator, as shown in the following table.

Poverty Status

Umatilla County--1990 Census

	Be	low Pove	rty Level		Percent of
			Total Below	Total*	<b>Total Population</b>
	Male	Female	<b>Poverty Level</b>	Population	Below Poverty
11 and under	1,408	1,175	2,583	10,929	23.6%
12 to 17	481	517	998	5,223	19.1%
18 and over	2,300	3,538	5,838	40,894	14.3%
Total	4,189	5,230	9,419	57,046	16.5%

\* For whom poverty status is determined.

Source: U.S. Census Bureau.

The Census Bureau reports that 3.3 percent of the population 16 and older had a mobility limitation in 1990. Persons were identified as having a mobility limitation if they had a health condition (physical and/or mental) that lasted for six or more months and which made it difficult to go outside the home alone. A temporary health problem, such as a broken bone that was expected to heal normally, was not considered a health condition.

Using the proportion of the population with mobility limitations and below the poverty level in 1990, DEA estimated the number of people with specific transportation needs in 1996. The following table shows that an estimated 34.8 percent of the population may have specific transportation needs. (There is likely to be some overlap between the 3.3 percent of the population with mobility limitations and the 14.5 percent below the poverty level; therefore, the sum of the figures may overstate the proportion of the population with specific transportation needs.)

Estimated Population with Specific Transportation Needs 1996, Umatilla County

	Percent of	<b>Estimated</b>
	<b>Total Population</b>	Number
Persons between the ages of 5 and 15	17.0%	11,115
Persons 16 and older under Poverty Level	14.5%	9,480
Persons 16 and older with Mobility Limitation	3.3%	2,130
Total Specific Transportation Needs Population	34.8%	22,725

<sup>&</sup>lt;sup>1</sup> DEA used the Census Bureau's age disaggregation to estimate that 10.7 percent of the population over the age of 16 was under the poverty level in 1990.

Source: U.S. Census Bureau.

Planning for the overall transportation system will need to consider the special needs of these populations.

## HISTORICAL GROWTH

The population of Umatilla County has grown since the 1970s, with significantly slower growth in the 1980s, reflecting a general slowdown in the state's economy. Helix, Pilot Rock, and Weston actually experienced a net population loss between 1970 and 1990. The following table shows the population trend for Adams, Athena, Echo, Helix, Pilot Rock, Stanfield, Ukiah, and Weston, and Umatilla County as a whole.

**Umatilla County Historical Population Trend** 

							1970-199	0 Change
	1970	1980	1985	1990	1995	1997	Number	CAARG*
Umatilla County	44,923	58,855	60,000	59,249	65,200	65,500	14,326	1.4%
Adams	219	240	245	223	260	265	4	0.1%
Athena	872	965	955	997	1,080	1,120	125	0.7%
Echo	479	624	605	499	530	585	20	0.2%
Helix	152	155	155	150	170	190	(2)	(0.1%)
Pilot Rock	1,612	1,630	1,630	1,478	1,560	1,585	(134)	(0.4%)
Stanfield	891	1,568	1,660	1,568	1,700	1,770	677	2.9%
Ukiah	N.A.	249	230	250	270	240	N/A	N/A
Weston	660	719	730	606	655	680	(54)	(0.4%)

<sup>\*</sup> Compound Average Annual Rate of Growth

Ukiah was incorporated in July 1972.

Source: Portland State University Center for Population Research and Census.

The number of people residing in Stanfield nearly doubled between 1970 and 1980. This population growth may have been fueled by some significant housing developments and the location of several food processing plants in Stanfield during this time.

## POPULATION AND EMPLOYMENT FORECASTS

Umatilla County is expected to experience population gains for the next 20 years. Like much of rural Oregon, the economy of Umatilla County remains largely seasonal, with nearly one-quarter of all employment agriculture-based. Therefore, population increases are difficult to predict, and are not likely to be as stable as the forecasts appear to imply.

The State Office of Economic Analysis prepared long-term population projections by county. Based on these projections and the methodology described above, preliminary population forecasts for the jurisdictions of Adams, Athena, Echo, Helix, Pilot Rock, Stanfield, Ukiah, and Weston were developed in five-year increments.

An ad-hoc HUES (Hermiston, Umatilla, Echo, and Stanfield) Impact Planning Group was formed in early 1997 to lead cooperative efforts to address growth concerns in western Umatilla County arising from four major employers locating or expanding in the region. The HUES Growth Impact Study, conducted by the Benkendorf Associates Corporation, Hobson Johnson & Associates, and Martin Davis Consulting, quantifies the impact of the construction and operation of these four facilities. Employment impacts are translated into household and population impacts, and disaggregated across the four HUES communities, Pendleton, and rural Umatilla County.

Of these four employers (the Two Rivers Correctional Institution, the Umatilla Chemical Agent Disposal Facility, the Union Pacific Railroad Hinkle Locomotive Shop, and the Wal-Mart Distribution Center and Truck Maintenance Facility), only one (the Wal-Mart Distribution Center) had been announced and incorporated in the long-range population and employment forecast prepared by the Office of Economic Analysis. Because the Umatilla County site was selected as the location for the Wal-Mart Distribution Center in 1994, its impacts were already incorporated in the Office of Economic Analysis long-term population and employment forecast. Applying the HUES methodology, DEA, Inc. subtracted out the impact of the Wal-Mart Distribution Center, in order to identify the population impacts resulting from the three "big four" employers otherwise not accounted for in the OEA forecast.

**HUES Population Impacts by Community** 

HUES Study "Scenario One" Less Wal-Mart Distribution Center

	<b>Base Population</b>	Pop	ulation Impa	ėt
	1996	2000	2005	2007
Hermiston	11,050	1,681	2,354	1,412
Umatilla	3,310	503	705	423
Echo*	530	81	113	68
Stanfield	1,755	267	374	224
HUES communities subtotal		2,531	3,545	2,128
Pendleton		223	313	188
Rural Umatilla County		223	313	188
Total Population Impact		2,978	4,171	2,503

<sup>\*</sup> The HUES study estimates Echo's base population using utility hook-up data and a 2.5 average household size. However, this methodology yields a base-year estimate inconsistent with the "official" state estimate. As required by state policy, the Transportation System Plan uses the official state estimate as the base population. As appropriate, the TSP uses utility hook-up data as the base number of households.

Source: HUES Growth Impact Study and David Evans and Associates, Inc.

These estimated impacts were then applied to the original population forecast for Echo and Stanfield by the mathematical model. The resulting population forecast is shown in five-year increments in the table below.

**Umatilla County Population Forecast** 

							1995-2000	1995-2017
	1995	2000	2005	2010	2015	2017	CAARG	CAARG
Umatilla County	65,200	72,800	77,000	78,300	79,500	80,073	2.2%	0.9%
Adams	260	270	280	290	300	310	0.7%	0.8%
Athena	1,080	1,160	1,210	1,270	1,330	1,360	1.4%	1.1%
Echo	530	610	640	650	660	660	2.9%	1.0%
Helix	170	190	210	220	230	230	2.7%	1.4%
Pilot Rock	1,560	1,580	1,600	1,610	1,640	1,650	0.3%	0.3%
Stanfield	1,700	2,020	2,130	2,290	2,430	2,490	3.5%	1.8%
Ukiah	270	290	310	320	340	340	1.6%	1.1%
Weston	655	690	700	710	720	730	1.0%	0.5%

Source: 1995 estimates developed by Portland State University Center for Population Research and Census; long-term County forecasts developed by State of Oregon Office of Economic Analysis; and Jurisdiction forecasts and intermediate County forecasts developed by David Evans and Associates, Inc.

Overall, Umatilla County is expected to experience healthy rates of population growth, averaging nearly one percent annually over the planning horizon. As shown in the table, the western portion of Umatilla County is expected to grow faster than the rest of Umatilla County, fueled by the four major employers. Of all jurisdictions included in this analysis, Stanfield is expected to grow the fastest, at an annual average of 3.5 percent at the beginning of the planning horizon, slowing somewhat, but still achieving a very rapid average annual rate of 1.8 percent for the 20-year planning period.

# UMATILLA

## **Umatilla County**

Department of Land Use Planning



DIRECTOR TAMRA MABBOTT

LAND USE PLANNING, ZONING AND PERMITTING

CODE ENFORCEMENT

SOLID WASTE COMMITTEE

SMOKE MANAGEMENT

GIS AND MAPPING

RURAL ADDRESSING

LIAISON, NATURAL RESOURCES & NVIRONMENT Memo

TO:

Umatilla County Board of Commissioners

FROM:

Carol Johnson, Senior Planner

CC:

Tamra J. Mabbott, Planning Director

Byron Smith, City of Hermiston City Manager Clint Spencer, City of Hermiston Planner

Ron Sivey, City of Hermiston Street Superintendent Russell Pelleberg, City of Umatilla City Manager

Bill Searles, Umatilla City Planner

Doug Olsen, County Counsel

Tom Fellows, County Public Works Director

DATE:

January 10, 2017

RE:

January 18, 2017 Board of Commissioners Meeting City of Hermiston & City of Umatilla JMA Amendments

Amendments proposed to the Joint Management Agreements (JMA) between Umatilla County, the City of *Umatilla*, and the City of Hermiston are attached for the Commissioners review. The proposed amendments update JMA sections related to the transfer of County roads located within city limits and Urban Growth Boundary (UGB) areas. The attached maps of Hermiston and *Umatilla* illustrate the UGB areas and show county roads located within each city limits and UGB areas. Also of interest is a list of County Roads within City limits and UGB areas.

Furthermore, proposed amendments to the *Umatilla* JMA will authorize the City to administer land use actions within the UGB. This transfer of responsibility will apply to all lands within the *Umatilla* UGB, including issuance of land use permits and approval of partitions and subdivisions.

Umatilla County Department of Land Use Planning MEMO Page 2 of 2

These JMA intergovernmental agreements are two of 12 such agreements between Umatilla County and cities. Updates are warranted from time to time, in order to clearly establish protocol for land use coordination inside urban growth areas and, importantly, to facilitate the orderly transition of lands from rural to urban. For this effort, County and each City worked together on the proposed amendments. Not all proposed changes were captured in this update.

As part of this process, public works directors were involved, particularly relative to roads and access to roads. Compromise was an essential component of the road discussion. For example, County Public Works Director, Tom Fellows, promoted a minimum lineal distance for road transfer from ½ mile to ¼ mile, while cities preferred the larger distance of ½ mile. The county preference of ¼ mile is roughly the equivalent of 2 city blocks, which seemed a reasonable interval to consider in terms of maintenance equipment, etc. However, in deference to the cities, the existing ½ mile was retained.

At their December 15, 2016 hearing, the County Planning Commission reviewed the JMA updates and forwarded a recommendation of approval to the Board of Commissioners with the acknowledgement that both UGBs are located within the Lower Umatilla Basin Groundwater Management Area. Either concurrently or subsequent to the County's process the JMA amendments are proceeding through the respective city approval processes.

## UMATILLA COUNTY ORDINANCE #96-05

## CO-ADOPTING CITY OF UMATILLA RESOLUTION #09-96, AUTHORIZING THE CITY OF UMATILLA TO ENTER INTO A JOINT MANAGEMENT AGREEMENT WITH UMATILLA COUNTY.

WHEREAS, The City of Umatilla entered into an intra-county joint management agreement project for the purpose of revising the Joint Management Agreement between Umatilla County and the City of Umatilla; and

WHEREAS, A need has been identified to facilitate an exchange of information and to cooperatively review land use actions; and

WHEREAS, The purpose of the Joint Management Agreement is to improve the administration of land within the urban growth boundary and better serve the city and county residents; and

WHEREAS, The Umatilla City Council adopted Resolution #09-96 on December 5, 1995; and

WHEREAS, The County Planning Commission reviewed the request on March 7, 1996 and recommended unanimously that the Board of Commissioners 'co-adopt said resolution; and

WHEREAS, The Board of Commissioners held a public hearing on March 14, 1996, at which time they considered the recommendation of the City and County Planning Commission, and unanimously voted to co-adopt Resolution #09-96.

NOW THEREFORE, be it ordained that the attached City of Umatilla Resolution #09-96 is hereby co-adopted by Umatilla County.

Signed this day of March, 1996.

UMATILLA COUNTY BOARD OF COMMISSIONERS

Emile Horensan, Chriman

Bill Hansell, Vice Commissioner

Records Officer

Date

OF OREGON

OF OREGON

Date

## JOINT MANAGEMENT AGREEMENT BETWEEN CITY OF UMATILLA AND UMATILLA COUNTY

City of Umatilla Resolution Number <u>09 - 96</u>

Umatilla County Board of Commissioners Resolution Number \_\_\_\_\_

This agreement is entered into this	day of	, 1995 by the City of
Umatilla, an incorporated municipality	of the State of Oregon, l	nereinafter referred to as the
"City" and Umatilla County, a political	subdivision of the State	of Oregon, hereinafter referred to
as the "County".		

## RECITALS:

- A. The City and the County are authorized under the provisions of Oregon Revised Statutes (ORS) 190 to enter into intergovernmental agreements for the performance of any functions that the City or County has authority to perform; and
- B. The City and the County are required to have coordinated and consistent comprehensive plans which establish an Urban Growth Boundary (UGB) and a plan for the Urban Growth Area (UGA) within the boundary; and
- C. Statewide Planning Goal 14 (Urbanization) requires that the establishment and change of a UGB shall be through a cooperative process between the City and County; and
- D. The City and the County share a common concern regarding development and use of lands within the UGA and other identified areas of mutual interest; and
- E. Statewide Planning Goal 2 (Land Use Planning) requires that City and County maintain a consistent and coordinated plan for the UGB and UGA when amending their respective comprehensive plans; and
- F. The City and the County consider it mutually advantageous to establish this Joint Management Agreement (JMA) for the purpose of facilitating the orderly transition from rural to urban land use within the City's UGA.
- G. This JMA also constitutes a Cooperative Agreement under ORS 195.020.

## 1. **DEFINITIONS**

- 1.1. Area of Mutual Interest. The unincorporated portion of the County extending from the City's urban growth boundary (UGB) outward and encompassing areas in which the City has significant interest due to potential economic, environmental, housing, public facilities, transportation and other planning or development-related impacts to the City, as shown in Exhibit A attached to and included herein as part of this Agreement.
- 1.21. Comprehensive Plan. A plan adopted by the City or County which meets the requirements of ORS 197.015; generally, a coordinated land use map and policy statements interrelating all functional and natural systems and activities relating to the use of lands.
- 1.32. <u>Land Use Actions</u>. Land Use and Limited Land Use Decisions defined by ORS 197.015; generally a decision by the City or County applying standards of the comprehensive plans or land use regulations to particular pieces of property. Examples include; variances, conditional use permits, partitions, subdivisions, planned unit developments, road dedications and vacations, and amendments to the zoning map for specific properties.
- 1.43. <u>Land Use Board of Appeals (LUBA)</u>. The appellate body designated by state statute to review land use actions on appeal by an affected party.
- 1.54. Land Use Regulation. County or City zoning ordinances, subdivision ordinances adopted under ORS 92.044 or 92.046, or similar ordinances establishing standards for implementing the comprehensive plan. For the purpose of this JMA, substantive provisions of land use regulations shall be those sections of the ordinance establishing outright uses, conditional uses and zone requirements such as minimum lot sizes, the zoning map, and design standards for required improvements.
- 1.65. Public Facilities Plan. A document developed pursuant to OAR-660-11-000 which is a part of the City and/or County's Comprehensive Plan and which describes the location of existing public facilities, such as water, sewer and transportation facilities, and their future extension to areas of new growth.
- 1.76. <u>Urban Growth Area (UGA)</u>. That unincorporated area between the City Limits and the Urban Growth Boundary in which urban services and facilities can be extended and development at urban intensity and density will occur.
- 1.87. <u>Urban Growth Boundary (UGB)</u>. A mutually agreed upon line, identified in both the City and County comprehensive plans, which delineates the outer extent of the UGA and the limits of urban growth.

## 2. COORDINATION OF COMPREHENSIVE PLANNING AND DEVELOPMENT

Periodic Review and amendments to the City <u>comprehensive</u> plan text, land use regulations, or map(s) shall be enacted in accordance with the procedures established in this section.

At the time of adoption of this agreement, the City's Comprehensive Plan is in effect for the City and UGA, and the Umatilla County Zoning Ordinance is in effect for the UGA. It is the intent of the City and County to continue with a single plan for the UGA and work toward a consistent zoning map and regulations for the UGA.

## 2.1 Periodic Review; Amendments to the City's Comprehensive Plan or Land Use Regulations.

The City shall be responsible for all planning and zoning activities in the Urban Growth Area, as defined in the Joint Management Agreement, in accordance with the procedures in the following subsections. The County shall continue to be responsible for planning and zoning code enforcement including solid waste and nuisance abatement in the Urban Growth Area. At such future time when the City is ready to assume code enforcement responsibilities the County will be amendable to transfer enforcement to the City.

## 2.1.1 Periodic Review.

Periodic Review shall be a joint responsibility of the City and County. After notice to the City from the Oregon Department of Land Conservation and Development (DLCD), the City and County shall develop a proposed work program and process relating to the City and UGA, including the roles and responsibilities of each party. The City and County will present this proposal to their Planning Commissions for approval.

## 2.1.2 City Processing of Comprehensive Plan Text, Plan Map and Zoning Map Amendments.

- a. The City shall have lead responsibility for reviewing and adopting amendments to the Comprehensive Plan <u>text</u>, <u>plan map and zoning map</u> for the UGA. Amendments may be initiated by the City, the County, or an affected person, by application to the City.
- b. Amendment applications shall be processed by the City, with notification to the County at least twenty (20) days prior to the City Planning Commission's first hearing on the proposed amendment.
- c. Any comments received from the County shall be considered by the City Planning Commission when making its recommendation to the City Council.
- d. The County may also provide comments prior to the City Council hearing, in which case, the Council shall consider the County's comments in making its final decision.
- e. The City shall provide written notification of it's the City Council's final decision to the County within five (5) working days.

- 2.1.3 <u>County Adoption of City Comprehensive Plan Text, Plan Map and Zoning Map</u> Amendments.
  - a. All amendments to the Comprehensive Plan text, <u>plan map and zoning map</u> affecting the UGA shall be referred to the County for co-adoption.
  - b. The County must adopt the amendments approved by the City for these to be applicable in the UGA. The adoption shall be scheduled for hearing within ninety sixty (60) days of City transmittal.
  - c. If the City and County disagree on the proposed amendment, either party may request a conflict resolution process to resolve the conflict.

## 2.1.4 Adoption or Amendment to Land Use Regulations; Plan and Zone Maps

- a. It is the intent of the City and County to jointly develop and adopt a single set of land use regulations and plan and zone map designations for properties within the City and UGA.
- b. The City agrees to adopt and apply the (1972) County zoning map designations and land use regulations to lands located within the UGA until adoption and implementation of City land use regulations and zoning designations for lands within the UGA.
- bc. The County City shall have lead responsibility for reviewing and adopting amendments to land use regulations and to the Plan Map or Zoning mMap for the UGA. Amendments may be initiated by the City, the County, or an affected person, by application to the County City.
- ed. The County City shall notify the City County of proposed amendments at least (20) days prior to the County City Planning Commission's first hearing on the proposed amendment.
- de. The City County may comment on the proposed amendment in writing, or in person before the Planning Commission. The County City Planning Commission shall consider the City's County's comments in making a final recommendation to the Board of Commissioners City Council.
- ef. The City County may review and comment on the Planning Commission's recommendation to the Board of Commissioners City Council in writing, or in person at the City Council's public hearing on the amendment. The County City Council shall consider the City's County's comments in making a final decision.
- fg. The County City shall notify the City County of the Board's City Council's final decision within five (5) working days. The City may appeal the Board's decision to LUBA following County ordinance, state statutes or administrative rule.

- g. Following adoption of amendments to the land use regulations or plan and zone maps, the City is encouraged to make similar amendments to its land use regulations for consistency and shall amend or depict map amendments on City maps of the UGA.
- h. All amendments to the land use regulations affecting the UGA shall be referred to the County for co-adoption.
- i. The County must adopt the land use regulation amendments approved by the City for these to be applicable in the UGA. The adoption shall be scheduled for hearing within sixty (60) days of City transmittal.
- j. If the City and County disagree on the proposed amendments, either party may request a conflict resolution process to resolve the conflict.

## 2.1.5 Public Facility Plan.

The City shall have lead responsibility for preparing a public facility plan for the UGA for water, sewer and storm drainage facilities as set forth in OAR-11-015. The County City shall also have lead responsibility for preparing the transportation element of the Public Facilities Plan for the UGA.

2.2. Review Process for Development Actions Permits in UGA.

The County City shall retain have responsibility for land use actions affecting land reviewing applications for development permits for uses permitted within the City's UGA, until after annexation.

To assist the City with administration of land use regulations with the UGA, the County agrees to provide the City with copies of prior land use permits issued for properties within the UGA.

- 2.2.1 County Land Use Application Review Procedures in UGA.
  - a. Applications for land use actions development permits within the UGA shall be processed by the County City. Within twenty (20) days of After determining an application is complete, the County City shall notify the City County of a tentative decision on the application, and provide the City County at least twenty one (21) days to comment or request a hearing on the proposal with opportunity to review and comment on the proposal in accordance with the City's Type II or Type III application review procedures, as applicable to the request.
  - b. The County City shall respond to City County comments, as appropriate, and consider them in making its final decision.
  - The County shall notify the City of any request for a public hearing based upon County procedures.

- dc. If a major change is made in the proposal, or significant new information is submitted that was not included in the original request, the County City shall repeat the notice procedure prior to making a decision on the request.
- ed. If the City County participated in the decision, notification of the final decision shall be provided to the City County within five (5) working days. The County shall have the right to appeal the City's decision in accordance with subsection (g) of this section.
- e. In order to provide a review opportunity beyond the City's final decision for land use requests within the UGA, before the decision may be appealed to the Land Use Board of Appeals (LUBA), the City, with concurrence from the County, will appoint a Hearings Officer to hear the contested decision. The decision of the Hearings Officer shall be the final local decision appealable directly to LUBA by any party to the decision. An appeal to the Hearings Officer shall follow the City's procedures for appeals.
- f. The City shall be responsible for all planning and zoning activities (as defined) in the Urban Growth Area (UGA).
- g. The County shall continue to be responsible for planning and zoning code enforcement in the UGA, including solid waste, and nuisance abatement.

## 2.2.2 City Procedures

- a. After receiving notification from the County, the City shall within twenty-one (21) days review the application and provide written comments or request a public hearing.
- b. If the City disagrees with the County's final decision, it may appeal the decision to the County Planning Commission or Hearings Officer within fifteen (15) days of the final decision.
- e. The City may provide comments on the appeal in writing or in person at the hearing.
- d. If the City disagrees with the County Planning Commission's or Hearings Officer's decision, it may appeal that decision to the Board of Comissioners within fifteen (15) days of the Commission's/Hearings Officer's final decision.

## 2.2.3 Opportunity for Appeal by City

a. If the City participates in the County decision, through providing written comments or in person at a public hearing, the City has the right to appeal the County's final decision to the Land Use Board of Appeals, in accordance with the appeals process specified in the County's Ordinance, applicable state statute or administrative rule.

## 2.3 Area of Mutual Interest

The County will send notice to the City on all pending land use actions within the Area of Mutual Concern requiring prior public notice and allow the City an opportunity to comment prior to making decisions on such requests. The County will provide the City with copies of decisions on all such requests, as well as staff permit approvals within the Area of Mutual Concern.

The City and County will coordinate with each other regarding major improvement projects, road routings, or road right-of-way vacations within the Area of Mutual Concern.

The City and County will review and comment on the development and future amendment of the City and County comprehensive plans and land use regulations affecting the Area of Mutual Concern.

## 3. CITY SERVICES AND ANNEXATION

## 3.1 City Services

The City, at its option and on its terms, may extend services to any property within the UGA. For the purposes of this JMA, city services shall be defined as sewer and water.

## 3.2 Annexation

Annexation of a property shall be in accordance with relevant methods and procedures in the ORS and City ordinances. After annexation, the City shall amend its plan and zoning maps, if necessary, to include the annexed properties. and, unless plan and zone map amendments are processed simultaneous with the annexation, it shall assign plan and zoning designations that most closely approximate the County's prior to annexation.

## 3.23City Addresses

Within one (1) year following annexation, property (situs) addresses shall be converted to the city addressing system.

## 3.4 Lower Umatilla Basin Groundwater Management Area (LUB GWMA)

Oregon DEQ declared the Lower Umatilla Basin Groundwater Management Area in 1990 due to high concentrations of nitrate-nitrogen occurring in area groundwater samples. Multiple stakeholders continue to be engaged in finding solutions within the Lower Umatilla Basin to reduce and meet nitrate standards. The City and the County recognize lands within the City of Umatilla and the Urban Growth Boundary are located in the LUB GWMA and where possible will partner to work on solutions with area stakeholders.

#### 4. Roads

#### 4.1 Jurisdiction of Roads within the UGA; Intent

The City and County agree the City should assume jurisdiction of selected county roads within the City limits. Although the County would prefer the City eventually assume jurisdiction and maintenance of all county roads within the City, it is amenable to retaining jurisdiction over some roads. The City and County also agree that maintenance and improvement responsibilities are tied to jurisdiction. The City and County agree the attached map and inventory represents all County Roads within the UGA and City limits.

The City and County shall work together to develop improvement plans for each of the following roads listed hereunder, with the intent that the City will assume ownership of, and maintenance for the road once the road has been developed to City, or other agreed upon standards.

- 4.1.1 Powerline Road
- 4.2.2 Umatilla River Road
- 4.1.3 Lind Road
- 4.1.4 Bensel Road
- 4.1.5 Power City Road

#### 4.2 Jurisdiction Access Permits and Standards; Coordination of Activities

The City and County will meet within six months of adoption of this agreement to identify roads appropriate for transfer of jurisdiction, based upon mutually agreed criteria such as percentage of local vs. non-local traffic, and develop a timetable and conditions for transfer of County roads. County ordinances and ORS will be followed in transferring jurisdiction.

The City and County shall coordinate with each other regarding major water, sewer or road improvement projects, road routings or re-routings, or road right-of-way vacations concerning any County road within the City or the UGA.

4.2.1 The City will send the County Road Department a notice of application on any land use request when the property abuts a County road or access to the property is proposed from a County road. The City will require all applicants whose property requires access to a County road to obtain the necessary access permit from the County Road Department as a condition of approval prior to creating, altering, including change of use or significantly expanding access to the County road.

4.2.2 The County will apply the City's access spacing and road improvement standards to any portion of a County road within the urban growth boundary based on the City's street classification system. The City's street standards shall allow for phased development of a County road within the urban growth area provided the improvements are associated with a proposed land use request and the necessary right-of-way or other required improvements, such as sidewalks, planter strips, etc., are planned for future phases. When a County road within the urban growth area has been developed to City road standards for at least 75% of its length, the City and County shall enter into negotiations for the transfer of ownership and maintenance of the road to the City.

Note: The Co Rd Dept does not have equipment to maintain roads to city street standards where city standards require sidewalks, curbs, storm drains, planter strips, etc. One possible solution would be for the City to accept the road where the developer is required to make improvements to city street standards (e. g., curbs, gutters and sidewalks). Although driveways must meet width and improvement standards, the Co Rd Dept may not deny reasonable access (ORS 374.310 and 374.312).

#### 4.3 Annexation

County roads will be annexed to the City when contiguous to properties being annexed. Within six months of **such** annexation, the City and County will decide which roads within the annexed area are appropriate for transfer of jurisdiction to the City and agree upon conditions and a timetable for transfer.

#### 4.4 Maintenance

The City will maintain all roads over which it has jurisdiction, including roads that it has assumed jurisdiction for after annexation. The County will continue to maintain all county roads within the Urban Growth Area (UGA) and within the City.

#### 4.5 Public Roads

Public roads are roads that have been dedicated for public use, but are not owned or maintained by the City, County or State. Public roads, both within the City and UGA, will be maintained by private property owners unless they are brought up to city or county standards. If brought up to City standards, and otherwise accepted by the City or County, roads within the City limits or urban growth area will be accepted as a city street and maintained by the City and roads within the UGA, by the County.

#### 4.6 Road Standards

Within one year six (6) months of from adoption of this agreement, the City and County will adopt agree a single set of on standards for construction and improvement of city and county roads within the City limits and the UGA. Such standards will include both cross-sectional and engineering standards. Until a single set of standards is adopted, all City and County

roads within the City limits will be built to city standards and all county roads within the UGA will be built to county standards.

#### 4.7 Road Improvements

Whichever party has jurisdiction over a given road will also be responsible for publicly funded improvements to that road. As part of the land use permitting process, the City will be responsible for applying conditions and requirements for all road improvements by property owners within the city limits and the County will be responsible for applying conditions and requirements for such improvements within the UGA.

Note: If the City requires property owners and developers, as part of the land use permit approval, to improve a portion of a County road to City street standards (e. g., curbs, gutters and sidewalks) the City must take ownership and maintenance of that portion of the improved road, or City and County may negotiate terms to transfer the road.

#### 5. BUILDING PERMIT AND INSPECTION PROGRAM

The City intends to make a request to the State of Oregon Building Codes Division for a change of service area to assume jurisdiction of the urban growth area for the City's building permitting and inspection program. County agrees to support this effort to any reasonable extent, if necessary, after adoption of this agreement by both parties.

## 6. REVIEW, AMENDMENT, CONFLICT RESOLUTION, SEVERABILITY, TERMINATION OF AGREEMENT

#### 56.1 Scheduled Reviews of the JMA

The City and County agree to jointly review this agreement every five (5) years to evaluate the effectiveness of the processes set forth, address new matters of state law or changed conditions within the urban growth boundary.

#### 56.2 Amendments to the JMA

This agreement may be amended by initiation of either party to the agreement following the procedures outlined below.

#### **56.2.1** Request

- a. The party which seeks the amendment shall submit a formal request for amendment, describing the proposed change and why the change is necessary.
- b. The responding agency shall schedule a review of this request within 30 days of receipt.

#### 56.2.2 Resolution, Modification and Mediation

- a. Both parties shall make good faith efforts to resolve requests to amend this agreement.
- b. The responding agency may approve, deny or suggest modifications to the amendment.
- c. Either party to the agreement may request the services of an outside mediator to help resolve disputes that may arise out of the implementation or amendment of this agreement.

#### **56.**3 Severability of JMA Provisions

The provisions of the agreement are severable. If an article, sentence, clause or phrase shall be adjudged by a court of competent jurisdiction to be invalid, the decision shall not affect the validity of the remaining portions of this agreement.

#### **56.4** Termination of JMA

This agreement may be terminated by any of the parties following procedures provided.

#### 56.4.1 Public Hearing Notice and Public Comment

- a. A public hearing shall be called by the party considering termination, giving the other party notice of hearing at least thirty (30) days prior to the scheduled hearing date. The thirty (30) day period shall be used by both parties to seek resolution of differences.
- b. Public notice of the hearing shall be in accordance with applicable Oregon statutes and administrative rules, but not less than fifteen (15) days prior to the hearing.
- c. The party moving for termination shall state, in the public notice and at the hearing, the reasons for termination and the effect of the action on the UGA.
- d. Public comment shall be received regarding the action and considered by the party in its decision.

#### **56.4.2** Conflict Resolution

a. Prior to a final decision to terminate the agreement, the City and County shall agree to enter into a conflict resolution process which will be established by the Department of Land Conservation and Development.

#### **56.4.3** Final Decision

a. The governing body of the terminating party shall vote to decide on termination on the established date for termination. If the vote is to end the agreement, written notice of the decision shall be provided to all affected parties including the Director of the Oregon Department of Land Conservation and Development.

- b. The established date of termination shall be at least thirty (30) days after the public hearing in order to provide an additional time period for resolution of differences.
- c. If resolution cannot be reached, a replacement agreement shall be developed as required by ORS 195.020.

#### 56.5 Effective Date

The effective date of this agreement shall be the date of co-adoption by the Umatilla County Board of Commissioners. It shall at that time replace and supersede a similar Agreement signed on January 28, 1978 which became effective on March 26, 1996.

IN WITNESS WHEREOF, this Urban Growth Area Joint Management Agreement is signed and executed by:

CITY COUNCIL COMMISSIONERS	BOARD OF COUNTY
Scorge Hash Mayor	Chair COMMISSIONERS
Mary Dedrick	Commission
Councilor Councilor	Commissioner
Gark P. Lato Councilor	Much 26, 1996
Councilor	
Date  Attest:: County Deck  Jean 19-28-98	
THE PROPERTY OF THE PARTY OF TH	<del></del>

#### RESOLUTION NO. 09-96

# A RESOLUTION AUTHORIZING THE CITY OF UMATILLA TO ENTER INTO AND THE MAYOR OR REPRESENTATIVE TO SIGN A JOINT MANAGEMENT AGREEMENT WITH UMATILLA COUNTY

WHEREAS, the City of Umatilla entered in to an intra-county Joint Management Agreement project for the purpose of revising the joint management agreement between Umatilla County and the City of Umatilla; and

WHEREAS, a need has been identified to facilitate an exchange of information and to cooperatively review land use actions; and

WHEREAS, the purpose of the joint management is to improve the administration of the land within the Urban Growth Boundary and better serve the City and County residents.

NOW THEREFORE, the City of Umatilla does resolve as follows:

- 1) that the form, terms, and provisions of the draft dated 9/14/95 of the Joint Management Agreement Between City of Umatilla and Umatilla County and the transactions contemplated thereby, providing for, among other things, the coordination of comprehensive planning and development of the city's urban growth area, copies of which have been reviewed by the City Council be, and they are, in all respects, hereby approved and adopted; and
- 2) that the Mayor or Council President and the City Recorder be, and each of them singly is, hereby authorized to execute and deliver the Joint Management Agreement Between City of Umatilla and Umatilla County, and such execution is conclusive evidence of the authorization thereof by this City Council.

PASSED by the Council and signed this \_\_\_\_\_ day of December, 1995.

ATTEST:

Linga Gettmann, City Recorder

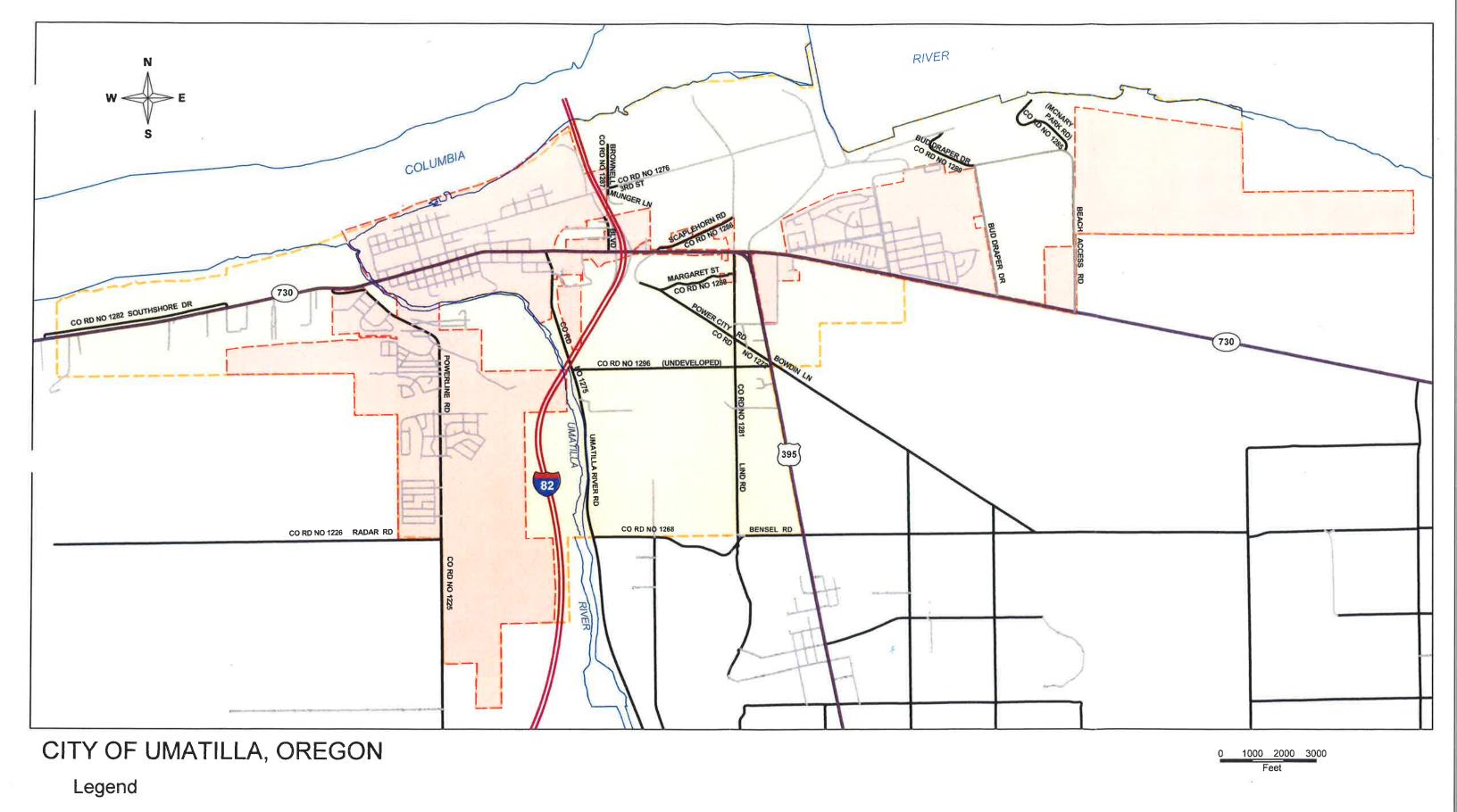


## County Roads In Umatilla City Limits and UGB Updated 1/1/2016

natilla	Rd#	City Paved	City Gravel	Urban Growth Paved	<b>Urban Growth Gravel</b>
3rd St	1276			0.11	
Beach Access Rd	1285			(McNary Beach Rd) 0.5	
Bensel Rd *	1268			0.73	
Bowdin Ln	1272				0.05
Brownell Blvd	1287	0.06		0.49	
Bud Draper Dr	1289			0.41	
Lind Rd	1281		0.18		1.50
Margaret St	1288				0.44
Power City Rd	1272			0.25	0.97
Powerline Rd	1225	1.73			
South Shore Dr	1282			1.03	
Scaplehorn Rd	1286			0.51	
Umatilla River Rd	1275	0.3		1.44	
		2.09	0.18	4.97	2.96
Undeveloped R/W	1296				1.18

<sup>\*</sup> Urban Growth Boundary follows centerline of road

<i>*</i>
X



City Limits Roads & Streets — State Highways

Urban Growth Boundary — County Maintained Roads — Interstates

MAP DISCLAIMER: No warranty is made by Umatilla County as to the accuracy, reliability or completeness of this data. Map should be used for reference purposes only Not for legal use, Created by J. Alford, Umatilla County Planning Department Date: 11/20/13, Updated 11/5/15
y:workspace/planning/projects/CountyRoadMaps/UmatillaCounty\_roads.gws

# HERMISTON

## HERMISTON PLANNING AREA JOINT MANAGEMENT AGREEMENT

#### **CITY OF HERMISTON**

#### **UMATILLA COUNTY**

#### A. PARTIES

This Agreement is made and entered into this	day	of	, 2	20 ,
by and between the City of Hermiston, an Oreg	on Municip	pal Corporat		
referred to as "City", and Umatilla County, a	political s	subdivision	of the St	ate of
Oregon, hereinafter referred to as "County".				

#### B. RECITALS

- 1. This Joint Management Agreement is the culmination of a lengthy planning process and a series of actions intended, to facilitate the orderly and efficient development of land in and around the City of Hermiston. Such actions include the preparation and adoption of city's comprehensive plan, the cooperative establishment of an urban growth boundary and urban/urbanizable areas, coordination with affected governmental units and mutual review of the City and County Comprehensive Plan. This process has been accomplished pursuant to Oregon's Statewide Land Use Planning Program as enumerated by Oregon Revised Statutes (ORS) and the Oregon Land Conservation and Development Commission. (LCDC)
- 2. The City adopted a Comprehensive Plan, hereinafter referred to as the "Comprehensive Plan", on the 12th day of October 1992, to replace the Comprehensive Plan of 1983 and to comply with applicable Statewide Planning Goals.
- 3. The City and County desire to plan for the orderly management and development of the entire Hermiston Planning Area as provided in their respective Comprehensive Plans and through their joint efforts and cooperation. Therefore, they enter into this Joint Management Agreement pursuant to Oregon Statewide Planning Law and as authorized by ORS 215.100.
- 4. The consideration for this Agreement is the mutual benefit of the City and County.

#### NOW THEREFORE, THE CITY AND COUNTY AGREE AS FOLLOWS:

#### C. **DEFINITIONS**

- 1. Area of Mutual Concern This area includes the City and unincorporated land around the City. It extends north to Baggett Lane, east to Edwards Road, south to Feedville Road and I-84, and west to I-82 (see Exhibit B).
- 2. Comprehensive Plan A plan adopted by the City or County which meets the requirements of ORS 197.015; generally, a coordinated land use map and policy statements interrelating all functional and natural systems and activities relating to the use of lands.
- 3. Contiguous For the purpose of this agreement, contiguous shall be defined as touching or adjoining.
- 4. Days In all cases, the reference to days in this agreement shall be understood to mean calendar days.
- Land Use Actions Land Use and Limited Land Use Decisions defined by ORS 197.015; generally a decision by the City or County applying standards of the comprehensive plans or land use regulations to particular pieces of property. Examples include, but are not limited to variances, conditional use permits, partitions, subdivisions, planned unit developments, road dedications and vacations, and amendments to the zoning map for specific properties.
- 6. Land Use Regulation County or City zoning ordinances, subdivision ordinances adopted under ORS 92.044 or 92.046, or similar ordinances establishing standards for implementing the comprehensive plan. For the purpose of this JMA, substantive provisions of land use regulations shall be those sections of the ordinance establishing outright uses, conditional uses, and zone requirements such as minimum lot sizes, the zoning map, and design standards and specifications for required improvements and public infrastructure.
- 7. Legislative An amendment to the City or County comprehensive plans and/or land use ordinances or a plan or zone maps that applies to a large number of parcels of land.
- 8. Major improvement projects Projects that involve capital improvements for new or replacement facilities. These projects are budgeted as separate line items in the local jurisdiction's capital improvement budget. They do not include routine facilities maintenance, such as cleaning, pavement patching, or repairs.

- 9. Periodic Review A comprehensive plan and ordinance review process, which is mandated by the state for cities over 2,500 people and optional for cities with smaller populations. The process involves an assessment of plan and ordinance deficiencies, development of a work plan with the Oregon Department of Land Conservation and Development (DLCD) to address the deficiencies, and the completion of the work plan.
- 10. Urban Area and Urbanizable Area The City's 1983 Comprehensive Plan has designated areas outside but adjacent to the City's corporate limits, and within the jurisdiction of the County, as "Urban Areas" and "Urbanizable Areas". Both areas are within the designated "Urban Growth Boundary". These terms are defined as follows:
  - a) Urban Area means the unincorporated portion of the Urban Growth Boundary immediately adjacent to the City's corporate limits where urban development in the near future is most likely to occur and where a full complement of urban services, including water and sewer, can be extended readily (see Exhibit A).

In addition, properties included in this area are characterized by one or more of the following:

- 1. Property is planned or committed to urban level development.
- 2. Property owner has indicated an interest in annexation.
- 3. Eventual annexation will result in the creation of more rational and easily identifiable city limits.
- b) Urbanizable Area means outlying unincorporated areas of the Urban Growth Boundary not immediately needed for urban development and to which urban level services cannot be extended in an orderly and efficient manner, at this time.
- 11. Urban Growth Area (UGA) That unincorporated area between the City Limits and the Urban Growth Boundary in which urban services and facilities can be extended and development at urban intensity and density will occur.
- 12. Urban Growth Boundary (UGB) means the boundary encompassing land needed to accommodate the growth of the CITY over the next 20 years (see Exhibit A).

13. Words and phrases used in this Joint Management Agreement shall be construed in accordance with the City's Comprehensive Plan, Zoning Ordinance, Subdivision Ordinance, and Annexation Ordinance.

#### D. AREA OF MUTUAL CONCERN

- 1. The City and County will send each other notice on all pending land use actions requiring public hearings and on all decisions on such requests as well as staff permit approvals within the Area of Mutual Concern and outside of the UGB in the same manner as for areas within the UGB pursuant to Section E.
- 2. The City and County will coordinate with each other regarding major improvement projects, road routings, or road right-of-way vacations within the Area of Mutual Concern.
- 3. The City and County will review and comment on the development and future amendment of the City and County comprehensive plans and land use regulations for the Area of Mutual Concern.
- 4. The County will adopt by ordinance as an amendment to the Land Development Code any FAA-approved, City adopted amendments to the boundaries and standards of the City's Airport Hazard Zone, as mapped by the City with respect to the area outside the City's corporate limits.
- 5. The City will require all applicants whose property requires access to a County road to obtain a necessary access permit from the County Road Department before creating, altering, or significantly expanding the use of access to the County road in question.
  - To improve access regulation, and therefore public safety, the City will send notification directly to the County Road Department on all land use requests requiring public hearings and on actions on such requests as well as all staff permit approvals, in the same manner as provided in sections E-4 through E-8, when the property involved requires access to a County Road within the City limits.
- 6. Oregon DEQ declared the Lower Umatilla Basin Groundwater Management Area (LUB GWMA) in 1990 due to high concentrations of nitrate-nitrogen occurring in area groundwater samples. Multiple stakeholders continue to be engaged in finding solutions within the Lower Umatilla Basin to reduce and meet nitrate standards. The City and the County recognize lands within the City of Hermiston and the Urban Growth Boundary are located in the LUB

GWMA and where possible will partner to work on solutions with area stakeholders.

#### E. AREAS WITHIN THE UGB, OVERALL PROVISIONS

- 1. The County shall adopt by ordinance as an amendment to the County Comprehensive Plan, the City's Comprehensive Plan including the Urban Growth Boundary, Plan Map, and Plan Policies to apply to land within the UGB.
- 2. The County shall adopt by ordinance as an amendment to the County's Land Development Code for application within the Urban areas only:
  - a) City land use regulations.
  - b) City zoning designations as described in Section F.
- 3. All applications for land use actions within the Urban Area shall be made through the City's Planning Department. Land use actions within Urban Areas shall be reviewed according to the procedures and requirements of the City's land use regulations and associated fee schedule. Although it is not currently possible to transfer building inspection authority and administration to the City within the Urban Area, the City and County agree to cooperatively evaluate this transfer of authority if it becomes feasible in the future.
- 4. All applications for land use actions within the Urbanizable Area shall be made through the County's Planning Department. Land use actions within Urbanizable areas shall be reviewed according to the procedures described in sections E-5 through E-8. The County shall be responsible for planning and zoning code enforcement in the Urbanizable Areas.
- 5. The County Planning Department will refer to the City Planning Department for review and comment all land use requests within the Urbanizable area for which a public hearing is required. Such notice shall be sent at least ten (10) days prior to the date of the first public hearing on each request. The County shall send the City the staff reports on such requests at least one week prior to the first public hearing.
- 6. If adequate time is available, the City Planning Department will review and comment on each such UGB land use action notice; otherwise the City Manager, or designee, will review and comment on the behalf of the City Planning Commission, and will so notify them at the next City Planning Commission meeting. The City will relay to the County comments on each

- such request by the date of the first public hearing or at said public hearing, even if the City's response is "no comment."
- 7. The County Planning Department will refer back to the City prior to final action any such land use action request in the Urbanizable area for which amendments by the applicant or County were made subsequent to the first or additional public hearings together with relevant new staff comments. The same ten-day notice period will apply.
- 8. The County Planning Department will notify the City Planning Department in writing of all actions on such requests as well as all staff permit approvals within the UGB, within seven days of such action or approval.
- 9. The City and County will jointly prepare and co-adopt a comprehensive transportation system plan (TSP) for the UGA and implement the rural and urban street improvement standards in Urban and Urbanizable areas as described in Section of the on pages 4 through 15 of the 1999 Hermiston TSP. This plan will include future arterial and connector street corridors, and will be amended to include local streets as "area plans" are prepared and adopted.
- 10. Amendments to the Comprehensive Plan and sections of the implementing ordinances applicable to the UGA may be initiated by the City, the County or an affected person. Such amendments shall be processed by the City and will be referred to the County by the City for review and comment at least ten (10) days prior to the City Planning Commission public hearing. The City will refer back to the County for review and comment any changes proposed in such amendments at least ten (10) days prior to adoption. The amendments will be adopted by ordinance by the City prior to referral to the County for coadoption review, via the County Planning Commission.

The County Planning Commission and Board of Commissioners will hold public hearings on all proposed amendments following receipt of City recommendations or co-adoption referrals. The County will take final action on all proposed amendments within 120 days after the application is received by the County, unless the applicant allows this time limit to be waived, or in accordance with applicable future changes in Oregon Revised Statutes. If approved, the amendments will be co-adopted by ordinance into the County Comprehensive Plan and land use regulations, for application only within the UGB, following formal amendment by the City of its Comprehensive Plan and implementing ordinances.

Attempts to resolve differences between City and County versions of an acceptable amendment will occur prior to Board of Commissioners' adoption. Should the City and County fail to concur on amendment proposals, the Board of Commissioners' or City Council's decision may be appealed to the appropriate tribunal, following final action by the Board of Commissioners. Unless the County co-adopts amendments approved by the City, such amendments shall not apply within the UGB.

Annexations related to Plan amendments shall be regulated by ORS Chapter 222.

- 11. Decisions of the City Council regarding appeals of land use actions within Urban areas and amendments to the Comprehensive Plan and land use regulations for the UGA may be appealed to the appropriate tribunal. The applicant for a land use action or Comprehensive Plan amendment bears the burden of proof regarding the request or amendment and the responsibility of defending an appeal. The applicant affected by an appeal shall be required to notify the City in writing within seven days of receiving notice whether he/she desires to undertake his/her own defense or will withdraw the requested land use action or amendment. In the absence of such written communication, the City may either:
  - a) Tender the defense to the applicant, or
  - b) Elect to defend its decision at City expense, should the issue be determined to be of city-wide significance.
- 12. Decisions of the County Board of Commissioners regarding appeals of land use actions within Urbanizable Areas and amendments to the Comprehensive Plan, and land use regulations for the UGA may be appealed to the appropriate tribunal. The applicant for a land use action or Comprehensive Plan amendment bears the burden of proof regarding the request or amendment and the responsibility of defending an appeal. The applicant affected by an appeal shall be required to notify the County in writing within seven days of receiving notice whether he desires to undertake his own defense or will withdraw the requested land use action or amendment. In the absence of such written communication, the County may either:
  - a) Tender the defense to the applicant, or
  - b) Elect to defend its decision at County expense, should the issue be determined to be of county-wide significance.

The County Board of Commissioners and/or the City may elect to participate jointly or singly in all or a portion of the cost of defending such appeal, if the issues are determined to be of county-wide or city-wide significance.

13. The City shall be responsible for all planning and zoning activities in the Urban Area as defined in the Joint Management Agreement. The City shall be responsible for planning and zoning code enforcement in the Urban Area, except for nuisance abatement. In addition to City planning and zoning responsibilities for the Urban Area, the City also agrees to be responsible for the planning and zoning of Steelhead Park and Riverfront Park in the Urbanizable Areas. Steelhead Park is located on Umatilla County Tax Lot 4N28-17A-200. Riverfront Park is located on Umatilla County Tax Lot 4N28-08D-100.

#### F. URBAN AREA: SPECIAL PROVISIONS

- 1. The City zoning designations in the Urban areas shall be applied in accordance with the City Comprehensive Plan.
- 2. The City shall refer all annexation proposals to the County Planning Department and the Public Works Department for review and comment at least ten (10) days prior to the first public hearing on the annexation. The City will allow additional County review and comment changes to be made in the annexation proposal following initial or subsequent hearings. All annexations shall be governed by ORS Chapter 222.
- 3. The City shall also encourage property owners who have Urban land, which is adjacent to the City on two or more sides, to annex into the City.
- 4. The City may extend water, sewer and streets into the urban area:
  - a) After annexing the land into the City; or
  - b) In accordance with ORS 225, governing extraterritorial service extensions.
- 5. The City will provide notice to the County and allow the County a ten (10) day period within which to review and comment on any proposal to extend water, sewer and street services within the Urban area.
- 6. Any adjacent County road rights-of-way will be included within the boundaries of all annexations.

7. With County approval, the City may sponsor Local Improvement Districts (LID) for portions of County roads either entirely or partially within City limits. The County may also allow affected properties outside City limits to be included in such LIDs provided the properties are within the Urban area, and are therefore eligible for annexation and development in the near future.

#### **ROAD IMPROVEMENTS AND TRANSFER**

8. a) Except for the streets shown below and subsection (b), The City will neither accept nor maintain any County road within an annexed area or elsewhere in the Urban area unless and until it meets City road standards. The County may transfer control and responsibility for any such improved County road to the City if agreed to by the County Board of Commissioners and the City Council.

The City agrees to accept and maintain the following County roads within the City, subject to verification by the City that the County roads and any affected bridges are in a condition acceptable to the City. City verification shall be provided in writing to the County Public Works Director.

- a) Harper Road (County Road 1242) between US 395 and River Road.
- North First Place (County Road 1275) between Geer Road and Jennie Street.
- e) South First Street (County Road 1245) between Orchard Avenue to the southeast boundary of the city limits just beyond the bridge.
- d) South Fourth Street (County Road 1193) between US Highway 395 to the bridge.

The City and County further agree that the City accepts South Fourth Street as described above subject to the execution of an agreement whereby the County shall fully fund the pedestrian/bicycle crossing on the South First Street bridge.

As an exception to the general proposition that County roads must meet City standards prior to being transferred to the City, the City agrees that it will accept ownership and maintenance responsibilities over County roads where at least two thirds (2/3) of the property abutting the road will lie within the City limits. The minimum length of a County road so transferred shall be one half (1/2) mile in lineal distance, or one mile of frontage on both sides of the road. In addition, upon annexation of land into the City, the County will transfer to the City jurisdiction and control over all public roads, alleys and rights-of-way lying in the area annexed.

The County and City will complete minor maintenance of the road prior to the City's acceptance of the road. The type of maintenance necessary will be agreed upon between County and City Public Works officials. Costs of the maintenance will be shared equally between the City and the County. (Section F.7 amended by City Ordinance No. 1912 on 11/25/96)

- When annexation to the City of Hermiston is proposed, as part of the County's testimony under Section F.2. of this agreement, the County shall identify any County roads directly adjacent to the property proposed for annexation. The County shall submit to the City a statement regarding the condition of the County roadway, the width of paving (if any), depth of paving, and depth of subgrade base (if known). If it is determined that the relevant county road is in a state of reasonable repair, has a width of at least 24 feet of paving, and, and at least 50 feet of overall right-of-way width, the city will assume maintenance duties for the section of roadway adjacent to the annexed areas.
- c) A number of parcels are located within the city limits but adjoin a county roadway. City has jurisdiction to permit development and redevelopment of such lands. County recognizes that city road standards are appropriate; however, this creates a challenge for county maintenance obligations. To resolve this conundrum, prior to approving any development onto a county roadway, City will require the following:
  - 1. Applicant must obtain a Road Access Permit from County Public Works, and
  - 2. If the roadway is improved to a City standard, e.g. curbs, sidewalks, stormdrains, etc., City will agree to maintenance duties for drainage improvements, curbs, gutters, and sweeping for the improved area. Pavement preservation shall remain the county's responsibility until full jurisdictional transfer is completed per the terms of 8(a).
  - 3. Notwithstanding the transfer of maintenance duties over an improved roadway upon annexation and development, no county roadway shall be jurisdictionally transferred until the appropriate lineal distance requirements in 8(a) above are satisfied.

- 9. As a condition of land use, limited land use, expedited land division or annexation approval, the City will require the applicant to agree to improve to City standards any included or impacted portions of County roads by either:
  - a) Irrevocable consent to participate in a future Local Improvement District to improve the road to City standards, shared by all affected property owners, or
  - b) Actual construction to City standards prior to development of the said property.
- 10. Streets platted within the Urban area after the effective date of the agreement shall be designed and constructed to City standards.
- 11. The City is responsible for public facilities planning within the Urban area, particularly with regard to extension of water, sewers, and minor streets.
- 12. For the construction of a conventional single-family dwelling or manufactured home on an existing lot according to the City land use regulations, the City may allow such development to proceed providing:
  - a) The lot is of sufficient size to qualify for a septic tank permit from DEQ;
  - b) The property owner agrees in writing to annex into the City upon the City's request; and
  - c) The property owner presents an access and utilities plan illustrating the location of future internal roadways and utility easements needed to ultimately serve the developing lot and contiguous properties. To estimate access and utility needs, Properties zoned R1 shall be assumed to be divided into lots of 9,000 square feet; property zoned R3 or R4 shall be divided into lots of 6,000 square feet; property zoned R2 shall be divided into lots of 7,500 square feet.
- 13. Except as provided in Section F. 12, above, all other development actions in residential zones will require the property owner to annex to the City and provide the necessary water, sewer, and street improvements as provided by the City's land use regulations. If the City determines that annexation is not possible, the City will require the provision of the necessary water, sewer, and street improvements as well as a written agreement from the property owner consenting to annex into the City upon the City's request.

14. Industrial and commercial properties may be developed without annexation, but only at rural densities with adequate site area for and State approval of septic systems and wells.

#### G. URBANIZABLE AREA: SPECIAL PROVISIONS

- 1. The County zoning designations in the Urbanizable areas shall be applied in accordance with the City Comprehensive Plan.
- 2. The City will not annex land in the Urbanizable area, without first converting it to Urban status.
- 3. The City will not extend water, sewer, or other urban services into the Urbanizable Area, except in cases of proven health hazard authorized by the State Health Division. Such extensions will be done in accordance with ORS 225, governing extraterritorial service extensions, and following ten (10) day prior notice to the County for review and comment.

#### H. CONVERSION OF LANDS FROM URBANIZABLE TO URBAN

- Conversion of property(ies) from Urbanizable status to Urban status may be considered at any time as a major plan amendment, which shall be processed under Section E-10 above.
- 12. Converted areas should include the service areas on both sides of an included County road, for ease and equitability in financing necessary road upgrading associated with urban development of the area.
- 23. The City will prepare detailed land use and public facilities plans for each such conversion area prior to approval of and as part of the conversion plan amendment.
- 34. The City will annually review the stock of vacant land in Urban status, and will initiate conversion of Urbanizable land as needed, so as to include a 5-year inventory of adequate lands for needed housing, commercial, industrial, and community service development.
- 45. Conversion areas must be contiguous to existing urban areas or the city limits.
- Conversion of property(ies) from Urbanizable status to Urban status will only be considered in conjunction with an annexation request except when initiated by the City as part of its annual review process noted in section H.4, above. The process will follow the City's plan amendment process and annexation regulations, with notice to the County per subsection F.2.

### I. REVIEW, AMENDMENT, SEVERABILITY, TERMINATION OF AGREEMENT

#### 1. Scheduled Reviews of the JMA

The County shall be responsible for initiating a joint review of this agreement at a minimum of every five (5) years to evaluate the effectiveness of the processes set forth, address new matters of state law, or changed conditions within the urban growth boundary.

#### 2. Amendments to the JMA

This agreement may be amended by initiation of either party to the agreement following the procedures outlined below.

#### a. Request

- 1. The party which seeks the amendment shall submit a formal request for amendment, describing the proposed change and why the change is necessary.
- 2. The responding agency shall schedule a review of this request within 30 days of receipt.

#### b. Resolution, Modification and Mediation

- 1. Both parties shall make good faith efforts to resolve requests to amend this agreement.
- 2. The responding agency may approve, deny or suggest modifications to the amendment.
- 3. Either party to the agreement may request the services of an outside mediator to help resolve disputes that may arise out of the implementation or amendment of this agreement.

#### 3. Severability of JMA Provisions

The provisions of the agreement are severable. If an article, sentence, clause or phrase shall be adjudged by a court of competent jurisdiction to be invalid, the decision shall not affect the validity of the remaining portions of this agreement.

#### 4. Termination of JMA

This agreement may be terminated by any of the parties following procedures provided.

#### a. Public Hearing Notice and Public Comment

- 1. A public hearing shall be called by the party considering termination, giving the other party notice of hearing at least thirty (30) days prior to the scheduled hearing date. The thirty (30) day period shall be used by both parties to seek resolution of differences.
- 2. Public notice of the hearing shall be in accordance with applicable Oregon statutes and administrative rules, but not less than twenty-one (21) days prior to the hearing.
- 3. The party moving for termination shall state, in the public notice and at the hearing, the reasons for termination and the aeffect of the action on the UGA.
- 4. Public comment shall be received regarding the action and considered by the party in its decision.

#### b. Conflict Resolution

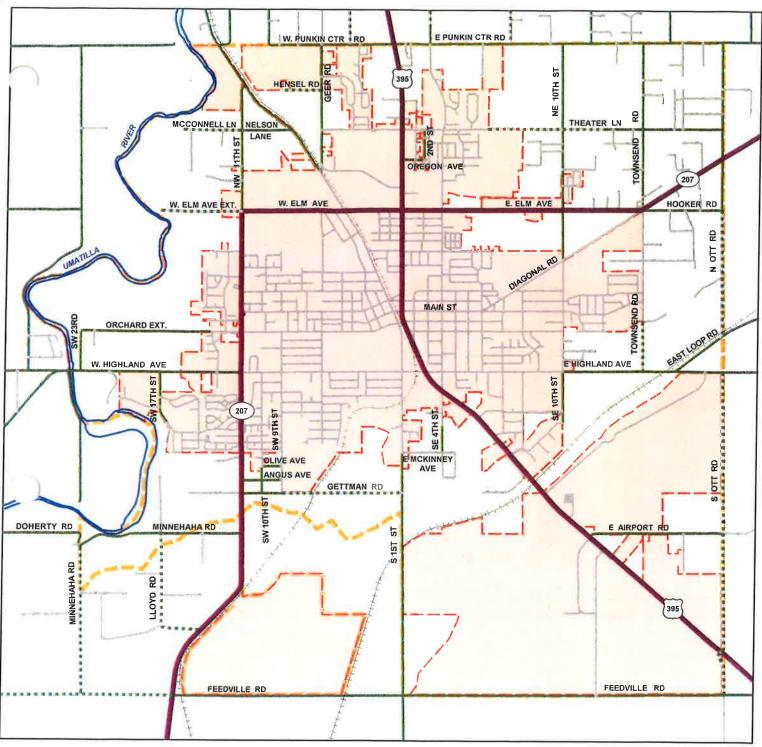
Prior to a final decision to terminate the agreement, the City and County shall agree to enter into a conflict resolution process which will be established by the Department of Land Conservation and Development.

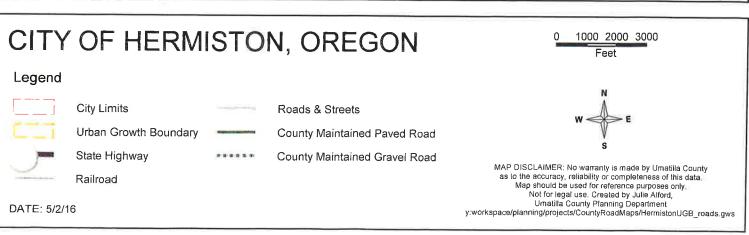
#### c. Final Decision

- 1. The governing body of the terminating party shall vote to decide on termination on the established date for termination. If the vote is to end the agreement, written notice of the decision shall be provided to all affected parties including the Director of the Oregon Department of Land Conservation and Development.
- 2. The established date of termination shall be at least thirty (30) days after the public hearing in order to provide an additional time period for resolution of differences.
- 3. If resolution cannot be reached, a replacement agreement shall be developed as required by ORS 195.020.

20	
	Mayor
(City Seal)	ATTEST:
	City Recorder
APPROVED on behalf of UM 20	MATILLA COUNTY thisday of
	Umatilla County Board of Commissioners
	William J. Elfering, Commissioner
(County Seal)	George L. Murdock, Commissioner
	W. Lawrence Givens, Commissioner
ATTEST:	
Office of County Records	
Records Officer	
APPROVED AS TO FORM:	

City Attorney	•		
County Counsel			





# County Roads In Hermiston City Limits and UGB Updated 5/26/16

Hermiston	Rd#	City Paved	City Gravel	Urban Growth Paved	Urban Growth Gravel
Townsend Rd	1217			1.05	
Hooker Rd	1214			0.49	
10th St (NE & SE)	1219	0.57		1.11	
1st Pl.	1275	1.04			
Hensel Rd	1248		0.2		0.05
Theater Ln	1244		0.2	0.75	
Oregon Ave	1228	0.14			
2nd St	1227	0.19			
Geer Rd	1249	0.28		0.49	
McConnell Ln	1234				0.32
Nelson Ln	1234			0.32	0.02
11th St (NW)	1247	0.5		0.40	
W. Elm Ave	1230				0.50
W. Highland Ext	1215	0.37		0.67	0.00
W. Orchard Ave	1238			0.75	
SW 23rd St	1238			0.25	
SW 17th St	1189	0.31		0.20	
Minnehaha Rd	1194			0.71	
Lloyd Rd	1191				0.09
Gettman Rd	1196			0.25	0.75
SW 10th St	1297	0.09		0.15	0.10
Angus Ave	1358			0.23	
Olive Ave	1298	0.03		0.07	
SE 4th St	1193			0.18	
E Airport Rd	1202	0.35		0.49	
E Highland Ave.	1190			0.71	
E. Loop Rd	1190			0.38	
E Highland Ext	1198			0.31	
		3.87	0.4	9.76	2.63
* Urban Growth Bound	dary follow	vs centerline	of road		
N. Ott Rd*	1211			1.00	0.83
Punkin Center Rd *	1250	0.45		2.41	0.00
Doherty Rd *	1194				0.08
Minnehaha Rd *	1187				0.28
S 1st St *	1245	0.16		1.42	5.20
eedville Rd *	1000	1.97	1	0.05	
S Ott Rd *	1211		1.48	5.00	0.52
		2.58	1.48	4.88	1.71