DRAFT

CRESWELL TRANSPORTATION SYSTEM PLAN

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Prepared for the City of Creswell
by Lane Council of Governments
PROJECT TEAM

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DISCLAIMER

The inclusion of proposed projects and actions in this plan does not obligate or imply obligations of funds by any jurisdiction for project level planning or construction. However, the inclusion of proposed projects and actions does serve as an opportunity for the projects to be included, if appropriate, in documents such as the State Transportation Improvement Program (STIP). Such inclusion is not automatic. It is incumbent on the state, county, city, and general public to take action to encourage and support inclusion into the STIP at the appropriate time.

Projects included in the STIP are required to have funds available so the number of projects which can be included are constrained by funding levels.
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CHAPTER ONE
Introduction

A. Overview

The City of Creswell in coordination with Lane County and the Oregon Department of Transportation (ODOT) initiated a study of the city's transportation system in May 1996. The purpose of the study is to provide a long-range policy document and project list that will guide the development of Creswell's transportation system for the next 20 years. The Transportation System Plan (TSP) will be updated every five years. The goals and policies contained in the TSP will become part of Creswell's Comprehensive Plan and Ordinance and amendments will be completed to implement these policies.

The TSP will be used as the basis for the development of transportation related capital improvements. It addresses multiple transportation modes including bicycle, pedestrian, automobile, and public transportation as well as air, rail, and pipeline issues.

B. Plan Context

In 1991, and later revised in 1995, the Land Conservation and Development Commission (LCDC) adopted the Transportation Planning Rule (TPR) (OAR 660-12-010) to guide regional and local transportation planning. The primary purpose of this rule is to carry out the purposes of LCDC Goal 12: Transportation. The TPR requires cities and counties to develop a plan including the following:

- A road plan for a network of streets;
- A bicycle and pedestrian plan;
- A public transportation plan;
- An air, rail, water, and pipeline plan;
- A transportation finance plan, and
- Policies and ordinances for implementing the transportation system plan.

The purpose of Oregon's Statewide Planning Goal 12: Transportation is "To provide and encourage a safe, convenient and economic transportation system." Goal 12 states: "A transportation plan shall (1) consider all modes of transportation including mass transit, air, water, pipeline, rail, highway, bicycle and pedestrian; (2) be based upon an inventory of local, regional and state transportation needs; (3) consider the differences in social consequences that would result from utilizing differing combinations of transportation modes; (4) avoid principal reliance upon any one mode of transportation; (5) minimize adverse social, economic and environmental impacts and costs; (6) conserve energy; (7) meet the needs of the transportation disadvantaged by improving transportation services; (8) facilitate the flow of goods and services so as to strengthen the local and regional economy; and (9) conform with local and regional comprehensive land use plans."
The TSP is intended to meet all of the requirements of the state’s TPR, the administrative rule that implements Goal 12.

C. Planning Assumptions

The focus of the TSP are the transportation systems and issues within Creswell’s Urban Growth Boundary (UGB). The planning time frame for the TSP is to the year 2015. During the development of the TSP several factors were recognized to exist outside the UGB that greatly influence transportation planning within the UGB. These factors include the location of adjacent employment areas, rural residential development dependent on the city, and the jurisdictional responsibility and design of existing transportation facilities. These factors are addressed in the TSP as appropriate.

In 1996, the population inside the Creswell city limits was estimated at 2,715. Approximately 700 more people reside outside the city limits but within the UGB bringing the total population within the UGB to about 3,400 people. A population estimate within the UGB for the year 2015 is about 5,400 people, assuming an annual average growth rate of 2.6 percent which is similar to what actually occurred between 1980 to 1995.

D. Planning Process

Citizen involvement was an important component of the TSP process. Development of Creswell’s TSP was guided by a citizen’s advisory committee (CAC) approved by the Creswell City Council. CAC members represented a range of transportation and governmental interests including bus service, business, bicycle transportation, police department, school, senior/disabled, fire department, airport, development, mayor, and planning commission. The CAC met on a monthly basis during the development of the TSP. The Goals of the CAC were:

- Develop a TSP consistent with the state TPR.
- Develop a citizen involvement plan that fits local conditions and priorities.
- Develop a TSP that provides an efficient transportation system for pedestrians, bicyclists, public transit users, and automobile users, and for the movement of goods and the provision of services.
- Make recommendations to the Planning Commission and the City Council for adoption and implementation of the TSP.

Public involvement activities included presentations to a joint meeting of the Creswell Chamber of Commerce and Kiwanis. A public workshop was held at the Creswell Community Center on April 29, 1997. This workshop introduced the community to the TSP process and solicited input on identified transportation issues. ODOT staff also used the workshop to present the Interstate 5 Interchange Refinement Plan scope and draft alternatives.

A second round of public involvement activities were held to gain input on the draft TSP. Short articles describing the plan were published in the Creswell Chronicle. The draft TSP was released to the public on January 1998. A copy of the draft plan was forwarded to ODOT, Lane County, and the Department of Land Conservation and Development.
A 60-day review period has been allotted for the draft plan. Comments received during the draft plan review period will be transcribed and summarized for the CAC to consider. The CAC will review the draft comments and recommend changes to the draft plan and ordinances. At this point, a joint meeting of the CAC, Planning Commission, and City Council will be held to discuss the draft plan and recommended changes. Following this meeting, working with the CAC, staff will make changes to the draft plan as requested and compile a final draft TSP. The CAC will then turn the final draft plan over to the Planning Commission with their recommendation for adoption.

The Planning Commission will hold a public hearing on the final draft plan. Any changes as a result of the public hearing will be forwarded with the Planning Commission’s recommendation to the City Council. The City Council will then hold a public hearing and formally adopt a final TSP. This document will be forwarded to the appropriate agencies and copies will be made available at City Hall.

E. Organization of the Plan

The TSP is organized into six chapters and several appendices.

**Chapter One: Introduction** - This chapter introduces the TSP context, assumptions and planning process.

**Chapter Two: Existing Conditions** - This chapter describes the TSP study area. It presents a description and inventory of the existing transportation system including roadway, bicycle, pedestrian, and public transportation, and air, rail, and pipeline elements. The chapter also presents a discussion of natural and cultural features related to these systems. The chapter also describes identified transportation issues within the study area.

**Chapter Three: Future Conditions and Transportation Need** - This chapter presents a detailed discussion of projected population, employment, and transportation volumes. It also describes the projected transportation needs for each of the plan elements.

**Chapter Four: Recommended TSP** - This chapter describes and presents maps of the recommended transportation system plan for each of the transportation elements. It also presents recommended goals and policies to implement the TSP.

**Chapter Five: Plan Implementation** - This chapter describes the various actions required to implement the TSP. Implementation actions include prioritized capital improvement projects, Ordinance revisions, and other implementation strategies.

**Chapter Six: Financing Strategies** - This chapter describes existing and potential funding sources to implement the preferred capital improvements and other implementation strategies described above.
CHAPTER TWO
Existing Conditions

A. Introduction

The development of the Creswell Transportation System Plan (TSP) began with an assessment and evaluation of the existing transportation system within the Creswell study area. The study area is essentially the entire Creswell Urban Growth Boundary (UGB) as shown on Map 1. The Creswell UGB contains about 1,220 acres, 630 acres of which are within the city limits. The UGB contains lands both east and west of Interstate 5. The Interstate 5 Interchange is a significant transportation feature in the community.

B. Road System

A complete inventory of Creswell’s road system was conducted in the Summer of 1996. All roadway segments in the UGB were evaluated for pavement condition, number of lanes, and surface type. The pavement width and right-of-way width for each segment was also recorded, in addition to the location of on-street parking along arterials, jurisdictional responsibility, and areas of access control. The methodology used to develop the inventory and a spreadsheet containing this information are presented in Appendix A. Other information collected included the location of traffic control devices, the number and location of traffic accidents, and average daily traffic counts.

Roadway Condition
Map 2 illustrates the roadway condition within the UGB. In general, most roadways that are paved are either in good or fair condition. This map also shows the location of gravel roadways and unbuilt public right-of-ways.

Access Control and Jurisdictional Responsibility
Roadways within the Creswell UGB are under the jurisdiction of either the city, Lane County, or the ODOT. These areas are shown on Map 3. Highway 99 (Goshen-Divide Highway) and Cloverdale Road (Springfield-Creswell Highway) are the primary state facilities besides Interstate 5. Melton Road east of Interstate 5 is also under state control. County facilities include those facilities outside the Creswell city limits but within the UGB. As areas within the city are annexed, the city normally develops an agreement with Lane County to take over maintenance responsibilities for these roads. The majority of the roads within the UGB are under city control. One exception is Dale Kuni Road, which runs from Cloverdale Road to Highway 99. The entire length of Dale Kuni Road, which includes sections within the current city limits, remain under county control.

ODOT has two types of access management for state roadways: access by permit and access control. Access control is the most restrictive form of access management, limiting the number and type of access points. These areas are also shown on Map 3. In general, ODOT has access control on Oregon Avenue about 750 feet west of the interchange and on Cloverdale Road from the interchange to the east edge of the UGB.
Creswell Transportation System Plan

Map 2

Roadway Condition

- Good
- Gravel/mostly Gravel
- Fair
- Outside UGB
- Poor
- Unimproved
- UGB
Traffic Control
The only signalized intersection in Creswell is at the corner of North Highway 99 and Oregon Avenue. This intersection controls traffic east-west along Oregon Avenue and north-south between Highway 99 and Mill Street. This signal was installed in the summer of 1975 and is maintained by ODOT with electrical cost funded by the city. The Level of Service calculated at this intersection is Level C.

Flashing warning lights are also located along Oregon Avenue near the railroad crossing. These lights are also maintained by ODOT. The Level of Service calculated at this intersection is Level E.

Accidents
The number and location of traffic accidents were tallied for the period January 1991 through October 1996 are shown on Map 4. A total of 84 accidents occurred during this period. The area near the corner of Highway 99 and Oregon Avenue had the highest number of accidents with 18. The area just east and west of the Interstate 5 Interchange also had a relatively high number of accidents during this period. No fatalities were noted during the recorded period. Two accidents involving pedestrians were noted during the review period.

Traffic Counts
The existing transportation system is dominated by automobile and truck traffic. Alternative modes such as bicycles and pedestrians are present but represent only a small portion of the total trips within the study area. Average daily traffic volumes are presented on Map 5. As shown on this map, the majority of trips enter or leave Creswell via Oregon Avenue and Interstate 5. At about 12,400 daily trips per day on average, the stretch of Oregon Avenue from the Highway 99 traffic signal to Front Street receives the greatest number of traffic trips daily. The next highest number of average daily trips is the stretch of Oregon Avenue from the Highway 99 traffic signal east to the Interstate 5 Interchange. This stretch receives the highest P.M. peak hour traffic trips per day.

In addition to the data presented on this map, current traffic counts were used to project future traffic volumes to the year 2015. These data including a calculation of roadway capacity and existing and projected congestion ratios are presented in Chapter 3.

As discussed above, ODOT conducted an Interstate 5 Refinement Plan concurrent with the development of the TSP. As part of the refinement plan, additional data were collected including traffic volumes, turning movements and a 14-hour manual classification count. These data are presented in the refinement plan included as Appendix D.

C. Bicycle System
Currently, there are no designated bicycle facilities in the City of Creswell. Bicycle usage appears to be low to moderate and generally occurs within the street or on sidewalks. The use of sidewalks by bicyclists can present conflicts with pedestrian use of these facilities. Creswell is well suited to increased bicycle usage in town with its small size and relatively flat terrain. The development of adequate bicycle facilities should encourage increased recreational and short trip bicycle usage.
Average Daily Trips reflect the most current Lane County and Oregon Department of Transportation data.
D. Pedestrian System

The pedestrian system within the study area is limited to sidewalks. During the inventory phase of the project, all sidewalks within the study area were mapped and evaluated for condition. Also, the location of wheelchair ramps and crosswalks were noted. The location of existing sidewalks is presented on Map 6. Most sidewalks are about five feet wide and the condition of these facilities range between good and poor. Street segments on the map indicated as partial sidewalks usually have a sidewalk on only one side or a part of one side. Key areas lacking sidewalks or requiring sidewalk repairs are included on the list of pedestrian system improvements.

E. Public Transit

Until September 22, 1997, public transportation in and around Creswell was limited to demand-response service to the elderly and persons with disabilities operated by South Lane Wheels and volunteer based services for the elderly and persons with disabilities. There are no inter-city bus or rail connections.

Fixed-Route Transit Services

LTD is the sole fixed-route, public mass transit provider operating within Lane County. LTD’s service boundaries were originally established in 1971 when the District was formed and includes those communities that participate in paying a business payroll tax, the local funding mechanism used to pay for LTD service operations. LTD has the authority to provide bus service throughout Lane County. The development of bus service to rural communities not currently served by LTD is handled through joint partnership. This partnership involves the LTD Board, the governing body of the community, and the community residents.

Creswell is not within LTD’s present service boundary, although the transit district originally established by the Legislative Assembly encompasses all of Lane County. LTD has received requests for service to Cottage Grove and Creswell. In 1996, a concentrated effort began by a local grass roots organization known as “Friends of LTD” to support and promote the initiation of LTD fixed-route service to the area. An initiative vote was held in both Creswell and Cottage and was unsuccessful in both cities. This year, a second initiative passed successfully in Cottage Grove. As part of the service design, Creswell was asked to join this service. The Creswell City Council allocated funds to provide limited service to Creswell.

LTD began providing service to Creswell and Cottage Grove on September 22, 1997. This service is being offered on a trial basis for 12 months. Service is offered six times daily during weekdays and two times on Saturday. Service within Creswell is limited to a single stop. A park and ride facility located on city-owned property at the corner of South 1st and C Streets. Service within Cottage Grove provides a loop by Wal-Mart and to the downtown commercial area.

Paratransit (Demand-Response) Transit Services

Acting on behalf of Lane Transit District, LCOG oversees and coordinates with providers to operate services funded through the Special Transportation Fund for the Elderly and Disabled (ORS 391.800 - 391.830). Specialized transportation for elderly and disabled residents of the Creswell area is
provided through volunteer escort services coordinated through the **RideSource Escort** program and through South Lane Wheels, a local private non-profit service provider.

**RideSource Escort** is a volunteer based door-through-door service primarily for medical trips coordinated with the assistance of LCOG’s Senior and Disabled Services’ Outreach Program and Lane Community College’s Senior Companion Program. In fiscal year 1995-96 volunteers using their own vehicles provided rides to ten elderly and disabled individuals in Creswell. Special Transportation Fund (STF) revenues were used to reimburse volunteers for mileage costs.

South Lane Wheels contracts with LCOG and other local agencies to provide services primarily to the elderly and people with disabilities in the south Lane County area. Their service area includes Cottage Grove, Dorena, Culp Creek, Creswell, London and Saginaw. Service is local except for medical trips into Eugene and Springfield for those who require the use of a wheelchair accessible vehicle. South Lane Wheels provided a total of 1,065 one-way rides to Creswell residents during 1996 and 1,070 rides in 1997.

There are obvious deficiencies in the service. Volunteer provided rides are limited and do not serve individuals that use wheelchairs. South Lane Wheels provides rides to persons using wheelchairs but these trips into Eugene and Springfield are only to and from medical appointments. Specialized services for the elderly and persons with disabilities do not serve other individuals within the community who also have limited transportation options such as young people seeking employment and social activities or those living on low-incomes. Although South Lane Wheels has worked diligently to expand its ridership and use by those other than the elderly and disabled, limited resources prevents them from growing enough to adequately address the transit needs of the community.

**Inter-city Passenger Bus or Rail Services**

Greyhound Lines is the only available inter-city service traveling through Eugene and Cottage Grove. There is no direct service to Creswell.

**F. Air, Rail, Water and Pipelines**

The air, rail, water and pipeline components make up a significant part of Creswell’s transportation system. The most significant component is air, due to the presence of the Creswell Municipal Airport.

**Air**

The City of Creswell owns a Basic Utility General Aviation airport, which is leased to a private operator. The airport is located northeast of the city between Interstate 5 and Dale Kuni Road and is accessed from Melton Road off Cloverdale Road. Creswell Municipal Airport (Hobby Field) is located on a 28-acre site and has a runway, a parallel taxiway, paved apron, 45 T-hanger spaces and 40 paved tie-down spaces. The runway is a visual approach runway equipped with MIRL lighting. It is 3100 feet long and 60 feet wide, with an asphalt surface, and has an elevation of 535 feet. The parallel taxiway is 3100 feet long and 40 feet wide, also asphalt. Support services include fixed based operation, flight instruction and charter, fuel facilities, unicom radio and an administration and maintenance building. There are 86 aircraft based at the airport as of January 1996. Because of its anticipated future role as a reliever for the Eugene Airport, Hobby Field is defined in the State’s system as a Level 2 airport.
Air service for passengers and freight is also regionally available at Eugene's Mahlon-Sweet Airport, located approximately 17 miles northwest of the study area. Mahlon-Sweet Airport provides regularly scheduled service to national destinations with connections to nearby international airports in Portland, San Francisco and Seattle.

**Rail**
Creswell is served by the Siskiyou line which runs a distance of 300 miles from Eugene to Black Butte, California. The line, formerly owned by Southern Pacific Railroad, was taken over by the Central Oregon & Pacific Railroad in 1995. Since that time, service has increased slightly. Currently the company operates four scheduled trains through Creswell, six days per week. Two freight trains pass through Creswell, one at about 2:30 A.M. traveling south and another at about 7:00 A.M. traveling north. Two other local trains also pass through Creswell one at about 4:00 P.M. traveling south and another at about 9:00 P.M. traveling north. Extra trains operate one or two times a month. One spur line currently exists in the Creswell area to serve Bald Knob Lumber Mill. As of late this spur receives limited usage.

The Eugene Station provides the nearest passenger rail service, with Amtrak Routes running north on the Valley Main Line and south on the Cascade Main Line. These lines account for significant passenger activity due to Amtrak's Coast Starlight train, which has stops in Seattle, Portland, Salem, Albany, and Eugene, as well as connections to Chemult, Klamath Falls, and points south all the way to Los Angeles. In 1992, 45,742 passengers got on or off at the Eugene Station.

**Water**
There are no navigable waterways in the planning area. The Coast Fork of the Willamette River runs north-south just east of the study area.

**Pipelines**

**Natural Gas**
Northwest Pipeline Company operates a major regional natural gas transmission line between Portland and Eugene which passes through the planning area. The gas is distributed in the Creswell area by Northwest Natural Gas Company. This six-inch high-pressure main interconnects storage facilities in the state as well as Interstate sources.

**Petroleum Fuels**
Southern Pacific Transportation Company operates an eight-inch major transmission pipeline, extending from Portland to Eugene, which has been in operation since 1962. This pipeline is a common carrier, designed to handle alternately regular, premium or unleaded gasoline and diesel fuel. It currently transmits almost 30,000 barrels of fuel per day to Eugene. From Eugene, it is distributed to various companies for shipment by truck to end destinations or for storage in tank facilities nine miles south of Creswell. This southern terminal serves not only all of Lane County, but parts of southern Oregon as well. Without the pipeline it would require about 150 tank trucks operating on the road system through Creswell, or 60 railroad tank cars, each day from Portland passing through Creswell to serve the distribution point.
G. Natural Resource Features

Slope
Creswell and its immediate surrounding area is relatively flat river valley approximately 541 feet above sea level. There are few steep slope areas or slope constraints located within the Creswell UGB. Creswell Butte rises to over 900 feet, but other than its initial rise most of the Butte is located just south of the UGB.

Soils
Soils within Creswell are for the most part Class I, II, III, and IV soils as identified in the Soil Capability Classification System of the U.S. Soil Conservation Service (now the Natural Resource Conservation Service). Permeability is good for Class I, moderate for Class II, and slow for Classes III and IV. There are only small pockets of Class III or Class IV soils in Creswell, therefore soil related development constraints do not apply for Creswell. The only soil limitations would be for agricultural or forestry purposes, which are already limited by land use decisions, ownership parcel size, and water availability.

Surface Water Drainage
Hills Creek is the primary drainage feature flowing through Creswell in a north to northeast direction toward the Willamette River. The creek flows from the industrial area west of Interstate 5 under the freeway to Garden Lake Park. According to the Creswell Comprehensive Plan, “land uses immediately adjacent to stream courses should be maintained in open use categories...” However, other than Garden Lake Park, Creswell Plan designations do not define this greenway strip.

Creswell participates in the Federal Flood Insurance Program (FEMA), and in association with that program has identified flood plain and hazard areas within the city. If a development proposal is located within the designated flood plain zone, developers undergo a more extensive review of their proposal to determine the site specific flood hazards of the property, and additional measure that must be applied to prevent damage in the event of flooding. Actual build-out in these areas may be less than if not a flood prone area, since site design, engineering, construction, and insurance costs are often higher.

Due to the relative flatness of the valley, lack of uniform grade and some areas that lack well defined natural drainage, localized ponding occurs throughout the Creswell area. The principle area of concern lies between Interstate 5 and the Willamette River. Most of the area east of Interstate 5 is within the floodway fringe, which may experience flooding during the 100 year storm event. Creswell has designated almost half of this area for tourist/convention/resort development, assuming that this type of development will be able to address the expensive engineering analysis and construction constraints necessary to meet flooding hazards.

Wetlands
The presence of wetlands may influence the extent of development and/or where it occurs. Development proposals that may impact wetlands are regulated and permitted by the Army Corps of Engineers and the Oregon Division of State Lands. If wetlands are located on property, before development can occur: the boundaries of the wetland must be clearly delineated; wetland impacts should be avoided if possible; and if impacts do occur, mitigation must replace the features lost by development.
A comprehensive inventory of wetlands has not been conducted for Creswell so wetland features for this report are based on the National Wetlands Inventory (NWI). The NWI provides basic data about the general characteristics and extent of wetlands in the nation. The NWI identifies the general boundaries of wetlands, however, in many instances actual wetland boundaries and features are more extensive than what is identified through this national classification system. In other instances, NWI information is out-dated and although a wetland feature is indicated on the NWI map, human influences have since altered or even eliminated that feature.

Most of Creswell’s wetlands are associated with Hills Creek both east and west of the freeway. Hills Creek and several large ponds are located in Garden Lake Park. A small wetland is also found north of Oregon Avenue within the Ash Grove Subdivision.

H. Land Use

As shown on Map 7, the majority of land in Creswell is designated for residential development. Commercially designated areas are along Oregon Avenue, north and south on Highway 99, and east of the Interstate 5 Interchange. Industrially designated areas occur along Mill Street south of Oregon Avenue and along the north edge of the UGB.

I. Cultural Features

Parks and Open Space
Creswell has two city owned parks totaling about 35 acres. A two-acre site is located between 4th and 5th Street, just north of Oregon Avenue, and a 33-acre site just east of Interstate 5. Other in-city park needs are provided in conjunction with private developments including a park and commercial campground in the northwest quadrant of the Interstate 5 Interchange and a park near F Avenue in association with multi-family housing. Emerald Valley Golf Course in the eastern portion of Creswell, encompasses 167 acres. Expansion of this 18-hole, privately owned complex is likely.

Public parks and open space just outside of Creswell are also important in serving the parks and open space needs of Creswell residents. The Willamette River Greenway, east of Creswell, provides important recreational opportunities such as trails, boat launching sites, and scenic river corridors. In addition, most of Creswell Butte lies just south of the Creswell UGB. Creswell Butte is a forested out-cropping providing important natural relief and environmental enhancement and open space for the city. Since in-city parks and open space opportunities are limited, transportation links with these out-of-city locations become important considerations.

Schools
Current and future school locations generally should have access to, but be located away from major vehicle arterials. Creswell has an elementary, middle, and high school. Creswell High School and Creswell Elementary comprise about 53 acres off A Avenue in the northeast portion of the city. Creswell Middle School, just south of Oregon Avenue, encompasses about 16 acres.
**Historical Features**
The location of significant historical features is important from a transportation perspective for two reasons:

1. The local community may desire to provide better access to these sites.
2. Design of transportation systems should ensure that these sites are protected.
3. Creswell requires a site review permit for the alteration and/or demolition of any designated historic site or structure.

Historical considerations have been ascertained from historical research conducted by the Creswell Area Historical Society and are identified in the Creswell Comprehensive Plan. Six sites are clustered in the central part of the city. These sites include:

- Creswell Library - Located on 2nd and D Avenue, dated 1874
- Creswell Historical Museum - Located at 5th and Oregon Avenue, dated 1889
- Presbyterian Church - South 4th and C Avenue, dated 1906
- Duane D. Hodges Landmark - S. Mill and Oregon Avenue, dated 1974
- Adam Schmitte House - Located at 115 West D Street, dated late 19th century

The Creswell Cannery is also listed on the State of Oregon Inventory of Historic Sites and Buildings. The City of Creswell however, has found that this building has little historic significance and cannot be justified for protection since the structure has deteriorated and cannot be meaningfully restored.

**J. Transportation Issues**

Several transportation issues relevant to the TSP are illustrated on Map 8. Issues were identified at the beginning of the study by the CAC, public input, and through staff review. The majority of automobile related issues are site specific to the section of Oregon Avenue, from the Interstate 5 Interchange to Front Street. These issues are listed below.

**Interstate 5 Interchange, Oregon Avenue, and Highway 99**
- Limited alternatives to using Oregon Avenue to get onto Interstate 5
- Railroad tracks/stop signs confusing as to which lane to be in
- Southbound off-ramp from Interstate 5 (excessive speed, not enough yield, KOA/AM-PM potential hazards)
- Diagonal parking along Oregon Avenue is a safety hazard
  - limits bicycle usage
- Many accesses to Shoprite parking lot and other businesses in this area
- Access between Knechts Auto Parts and Siuslaw Valley Bank hazardous
- No parking allowed on Oregon Avenue - Mill Street to Overpass (Are signs still in place?)
- Jog in Highway 99 at Oregon Avenue
- Right turn lane going north on Highway 99 - confusing
- All facilities in this area are inadequate for bikes and pedestrians
- Limited access to Commercial property east of interchange near Melton Road
Creswell Transportation System Plan

Map 8

Transportation Issues

- No Bicycle Facilities Anywhere in Town
- Limited Cross-Town Streets in Southern Area
- Limited Bicycle Facilities in Southern Area
- No Bicycle or Pedestrian Facilities on Interchange
- Many Accesses to Businesses
- Safety and Operation of Interchange Ramp Terminals
- No Designated Access to Commercial Area
- Limited Public Transportation to Creswell
- Emerald Valley Resort
- Large Undeveloped Commercial Area
- Garden Lake Park
- Melton Rd. too Close to Interchange
- Jog in Hwy 99
- Limited Alternatives To Using Oregon Ave.
- Diagonal Parking Along Oregon Ave.
- Many Accesses to Businesses

Creswell High School
Creswell Middle School
Creswell Elementary School
Lumber Mill

Produced by LCOG 1998
- Parking in front of Dari Mart (C St. and Highway 99 South) obstructs view for cars getting onto Highway 99 from C Street

**Other Roadways**
- Access on Mill Street
- Limited outlets in north part of city (West Lane or Nieblock Road)
- Signage in general should be evaluated

**Other Issues**
- Truck traffic from north part of city onto Oregon Avenue (Fircrest currently uses Harvey Road to Oregon Avenue and does not use Highway 99)
- No bike lanes or bike racks anywhere
- No wheel chair ramps in Creswood Subdivision
- Safety issues for school children (i.e., areas lacking sidewalks - Harvey Road, Nieblock Lane, Highway 99, Post Office to Art Lott Lane, 7th, 8th, and 9th Streets, Oregon Avenue to A Street, Railroad crossing)
- Lack of a local street plan to guide future street development
- Limited public transportation
CHAPTER THREE
Future Conditions and Transportation Needs

A. Introduction

This chapter describes the projected future conditions for population, housing, employment, and traffic volumes. A discussion of public transportation, bicycle, pedestrian, and roadway needs is also included.

B. Population and Employment

As part of the transportation system plan for the Creswell urban growth boundary (UGB), projections of housing units were created for 2015. These housing units are used in the transportation modeling process to identify the traffic counts and patterns associated with residential development for the 20-year planning period.

In addition, projections of employment were also created for 2015. These employment projections are used in the transportation modeling process to verify trip rates and travel patterns associated with commercial and industrial development, in order to anticipate travel behavior over the 20-year planning period.

Population Projections

To develop 2015 projected housing units for the Creswell UGB, various assumptions about population growth and residential development were necessary. Below is a description of these assumptions.

Population
In 1996, the population inside the Creswell city limits was estimated at 2,715 with an estimated total of about 3,400 people living in the UGB. About 700 people live outside the city limits within the UGB. Population in the Creswell UGB is projected to reach 5,400 persons by 2015. This assumes an annual average growth rate of 2.6 percent for the city population. This rate is similar to the 2.6 annual average rate that occurred during the 1980 to 1995 time period. It also assumes that an additional approximately 100 units will be built inside the UGB and outside the city limits.

Number of Households
To determine the number of households requiring housing in 2015, the population is divided by an assumed average persons per household. Average household size has been declining both nationally, and locally over the past 30 years and is expected to continue to decline but more gradually. Based on decennial census data, average household size did decline in Creswell between 1970 and 1980 from 2.86 to 2.63; however, during the 1980s, it rose to 2.68. Consequently, the 1990 average household size figure of 2.68 will be assumed. Subtracting the assumed group quarters population of 60 and applying this average household size results in a total of 1,993 households inside the UGB in 2015. In 1990, there were 886 households within the city limits.
Number and Types of Housing Units
Determining the number of housing units needed in 2015 requires assumptions about the percentage of housing units by housing type. In addition, to ensure a healthy housing market, a two percent vacancy rate was assumed for owner units and a five percent vacancy rate for renter units. The assumption regarding the owner/renter split by housing type was taken from the 1990 Census.

To develop an assumption on the percentage of housing units by housing type, the Lane County Geographic Information System, the existing Creswell Comprehensive Plan and local input were reviewed. All sources indicated that over half of the housing in the Creswell UGB will be single family detached units. Based on these assumptions, a total of 2,058 housing units are projected. Table 1 below compares existing housing and housing projected for the year 2015.

<table>
<thead>
<tr>
<th>Housing Type</th>
<th>Percent of Units</th>
<th>Number of Units</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1996</td>
<td>2015</td>
<td>1996</td>
<td>2015</td>
</tr>
<tr>
<td>Single Family - detached*</td>
<td>64</td>
<td>62</td>
<td>787</td>
<td>1,276</td>
</tr>
<tr>
<td>Multi-Family</td>
<td>15</td>
<td>15</td>
<td>181</td>
<td>309</td>
</tr>
<tr>
<td>Duplex</td>
<td>5</td>
<td>5</td>
<td>57</td>
<td>103</td>
</tr>
<tr>
<td>Manufactured Dwelling in Parks</td>
<td>16</td>
<td>18</td>
<td>194</td>
<td>370</td>
</tr>
<tr>
<td>TOTAL</td>
<td>100</td>
<td>100</td>
<td>1219</td>
<td>2,058</td>
</tr>
</tbody>
</table>

* Includes manufactured dwellings on individual lots.

A total of 2,058 housing units are projected in the Creswell UGB by 2015. This represents an increase of 839 units between 1996 and 2015.

Employment Projections

The 2015 employment projections for the Creswell UGB area are largely based on employment projections for Lane County. The county projection was used to develop a projection for Census Tract 11 in which Creswell resides. Creswell roughly lies within the center of Census Tract 11. The census tract generally extends from the southern edge of the Eugene Metropolitan boundary to just north of Saginaw in the south.

The Census Tract projection was used to estimate a projection for the Creswell UGB area. This methodology was selected because more reliable historical data is available for Census Tract 11 than for the Creswell UGB.
The Data
Annual historical employment data for Lane County, provided by the Oregon Employment Division was used for this analysis. Biannual historical employment data from 1978-1994 for Census Tract 11 was also used. Although, total employment in the Creswell UGB is known for 1994, it is not available for any other year.

The Census Tract Projection
The historical data for Lane County and Census Tract 11 were used to develop a trend for Census Tract 11 employment as a percent of Lane County employment. The extension of the 1978-1994 trend was used along with the Lane County employment projection for 2015 to arrive at a 2015 projection for the Census Tract.

Table 2
Lane County Employment Projections

<table>
<thead>
<tr>
<th>Geographic Area</th>
<th>1994</th>
<th>2015</th>
<th>Total New Employment</th>
<th>1994 - 2015 Average Growth Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lane County</td>
<td>125,900</td>
<td>177,074</td>
<td></td>
<td>1.6%</td>
</tr>
<tr>
<td>Census Tract 11</td>
<td>1,540</td>
<td>2,294</td>
<td>754</td>
<td>1.9%</td>
</tr>
</tbody>
</table>

The Creswell UGB Area Projection
In 1994, employment in the Creswell UGB area comprised 63 percent of the total employment in Census Tract 11. Because of Oregon planning rules, most of the growth in employment in the Creswell area should occur inside the UGB. Therefore, Creswell UGB employment should increase as a percent of total employment in Census Tract 11. In 2015, then, Creswell UGB employment should be more than 63 percent of Census Tract 11 employment.

If all of the employment growth projected to occur in the Census Tract, occurs inside the Creswell UGB (no growth outside the UGB), the projection for the UGB area would be 1726. This would mean an increase in employment in Creswell’s UGB by 754 employees over the 21 year period, or 35 employees per year on average.

Table 3
Creswell Employment Projections

<table>
<thead>
<tr>
<th>Geographic Area</th>
<th>1994</th>
<th>2015</th>
<th>New Employment</th>
<th>UGB % of CT</th>
<th>1994 - 2015 Average Growth Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Creswell UGB - even growth</td>
<td>972</td>
<td>1,450</td>
<td>478</td>
<td>63%</td>
<td>2.5%</td>
</tr>
<tr>
<td>Creswell UGB - all growth</td>
<td>972</td>
<td>1,726</td>
<td>754</td>
<td>87%</td>
<td>2.8%</td>
</tr>
</tbody>
</table>
It is reasonable to expect that there will be some increase in employment outside of the UGB since firms located there may grow. However, to be consistent with planning guidelines, the UGB area should be able to accommodate most new employment expected to locate in the census tract since it is the only city in the area.

For comparison, Creswell’s Comprehensive Plan contains an employment goal to have 40 jobs for every 100 residents. If Creswell’s population reaches about 5,400 persons by 2015 as projected, there would be a total of 2,160 jobs or about 434 more than projected above.

C. Allocation of Housing and Employment

The projected housing and employment numbers were used to anticipate travel volumes and patterns associated with residential, commercial, and industrial development. The Creswell study area was divided into 14 Transportation Analysis Zones (TAZ) and vacant land by plan designation was calculated for each zone as shown on Map 9. The amount of vacant land by plan designation by TAZ is presented in Table 4 below. Project dwelling units were then allocated to available vacant land. Single-family units were allocated at a density of five units/acre and all other dwelling types were allocated according to their relative densities. Projected employment was allocated according to the amount of vacant land available. The details of the allocation exercise are contained in Appendix C.

<table>
<thead>
<tr>
<th>Acres by Development Type</th>
<th>TAZ Number</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1  2  3  4  5  6  7  8  9  10  11  12  13  14</td>
</tr>
<tr>
<td>Residential Acres</td>
<td>42 73 17 36 0 0 23 4 0 24 32 1 0 0</td>
</tr>
<tr>
<td>Commercial Acres</td>
<td>0 0 0 51 60 11 0 0 9 1 0 0 1 9</td>
</tr>
<tr>
<td>Industrial Acres</td>
<td>0 27 26 0 0 0 0 0 30 0 0 0 0 83</td>
</tr>
<tr>
<td>TOTAL ACRES</td>
<td>42 100 43 87 60 11 23 4 39 25 32 1 1 9</td>
</tr>
</tbody>
</table>

D. Projected Traffic Volumes

A Level 2 analysis was conducted to project traffic volumes to the year 2015. As described above, projected employment and housing were allocated to each TAZ according the plan designations and available vacant land. The number of households and employees were then multiplied by their respective trip rates. Survey and traffic count data was also reviewed to determine how many vehicle trips occur between Creswell, Lane County, and the Eugene-Springfield Metropolitan area. Creswell has a high number of commuter trips to the metropolitan area.

At this point, trip information was entered into the transportation modeling software, Emme\2. Based on trip information, Emme\2 assigns each trip to the shortest route that connects the trip’s origin and destination. The origin and destination of each trip is now known as well as the number of cars on the road.
Creswell Transportation System Plan

Map 9

Vacant Land by Plan Designation and Transportation Analysis Zones

- Residential
- Commercial
- Industrial
- Park, Recreation, Open Space
- Public Facilities/Government
- Resort Commercial Overlay Zone

TAZs

To Highway 99

Produced by LCDD 1/98
The model was then calibrated using the existing traffic counts and checked for accuracy. When traffic patterns in the model closely reflected the real world condition, the same steps were repeated using housing and employment projections for the year 2105.

The maps produced by the model for 1994 and the year 2015 include estimated daily traffic volumes, estimated P.M. peak hour traffic volume, and estimated P.M. peak hour congestion. The maps for the year 2015 are presented on Map 10 through Map 12. Additional maps developed during the modeling process are included as Appendix B. Except for a few areas discussed below, Creswell's roadway system functions well in its present condition and is expected to maintain acceptable service levels throughout the planning period.

**Oregon Avenue (Interstate 5 Interchange to Front Street)**
The roadway segments along Oregon Avenue from the Interstate 5 Interchange to Front Street currently experience a low to moderate level of congestion. This situation is aggravated due to the location of railroad tracks within this stretch. As described in the previous chapter, a scheduled north bound train passing through Creswell about 7:00 A.M. could impact commuter traffic along this stretch. As traffic volumes increase as well as train frequency this situation will only get worse. The level of congestion for this stretch is projected to raise to high by the year 2015 as shown on Map 12.

The Oregon Department of Transportation has conducted a refinement plan for this area concurrently with this TSP.

**Front Street at Oregon Avenue**
Front Street is located about 40 feet west of the railroad tracks. Highway 99 jogs onto the southern extension of Front Street from Oregon Avenue without traffic control. The segment of Front Street north of Oregon Avenue presents difficult traffic issues for drivers wanting to enter Oregon Avenue from the north. Due to a grade change of roughly ten feet between the railroad tracks and Front Street and the volume of traffic at this intersection, entering Oregon Avenue from Front St. can be both time consuming and dangerous. Consideration should be given to converting Front Street to one-way going north only.

**E. Public Transportation**

In 1995, the LTD and the cities of Creswell, and Cottage Grove jointly funded a transportation needs assessment. The survey completed by Marstat, a local research firm, was conducted as a statistically valid sample. The purpose of the needs assessment was to determine whether Creswell and Cottage Grove residents were interested in public bus service, measure whether there was support for bus service, and whether residents were willing to finance bus service.

A total of 100 surveys were completed in Creswell. Eighty-seven percent of the respondents who work outside Creswell, mostly in the Eugene-Springfield area. Ninety-four percent of the respondents use a car to get to work and only seven percent car pool. Seventy-nine percent of the respondents shop outside Creswell at least once a week.
Forty-six percent of Creswell survey respondents rated public transportation to Eugene/Springfield as Extremely Important and only seventeen percent rated it as Not at All Important. Forty-three percent of the respondents said they were Very Willing or Somewhat Willing to ride a bus to Eugene/Springfield and pay a one-way fare of $30. Thirty-seven percent of the respondents said they were Not Willing at All or Somewhat Not Willing to ride the bus and pay $30.

LTD began a trial bus service to Creswell and Cottage Grove on September 22, 1997. The trial period for one year will provide a real world test of the level of support in Creswell.

F. Bicycle and Pedestrian System

As mentioned in the previous chapter, Creswell currently doesn’t have any designated bicycle facilities. Also as discussed previously, the pedestrian system is lacking key connections between the schools, to the park, and to the downtown commercial area. The provision of bicycle and pedestrian facilities particularly to the downtown commercial area could help to reduce short vehicle trips to this area thus reducing congestion. A complementary and interconnected pedestrian/bicycle/pedestrian/public transit system will reduce dependence on only the automobile and enhance the overall operation of the transportation system.
A. Introduction

This chapter contains Creswell’s recommended transportation system plan. The chapter includes proposed transportation system goals and policies, the recommended roadway classification system and proposed truck routes, proposed street standards, and proposed system maps for the roadway, bicycle, pedestrian, and public transportation elements.

Development of the Creswell TSP was guided by a series of broad goals. From these goals came the more specific policies and implementation measures. The goals as written may never be fully achieved in their entirety, but provide a target towards which the city can strive. Policies provide the basis for a consistent course of action to move the community towards its goals.

B. Transportation System Plan Goals

Goals

Transportation Balance
Provide for a balanced transportation system to give mobility to all segments of the community.

Quality of Life
Enhance the city’s quality of life by providing efficient, safe, convenient, economic and aesthetically pleasing transportation systems for the movement of people and goods.

Alternative Modes
Reduce reliance on the automobile by providing more safe and convenient options for bicycling, walking, paratransit, and public transportation.

Connectivity
Create an interconnected street plan to support existing and future land uses.

Equity
Provide transportation opportunities for the transportation disadvantaged.

Minimize Negative Impacts
Maximize the benefits and minimize negative effects of transportation on the social, economic, and natural environment.

Compatibility of Systems
Minimize conflicts and facilitate compatibility and connections between transportation modes.
Safety
Create a safe and efficient transportation system.

Financially Sound
Create a transportation system that is financially feasible, cost-effective, acceptable and that minimizes administrative costs.

C. Transportation System Plan Policies

Coordination

1. The city shall develop a coordinated approach to the operation, development, and maintenance of jointly managed transportation facilities.

2. The city shall identify methods to insure future coordination of transportation planning and project development activities with Lane County and ODOT.

Protection of Transportation Facilities

1. The city shall protect the function of existing and planned roadways as identified in the transportation system plan.

2. The city shall include a consideration of their impact on existing or planned transportation facilities in all land use decisions.

3. The city shall protect the function of existing or planned roadways through application of appropriate land use regulations.

4. The city shall consider the potential to establish or maintain pedestrian ways, paths or bikeways prior to the vacation of any public easement or right-of-way.

5. The city shall require the dedication of right-of-way for planned transportation facilities as identified in the transportation system plan.

6. Land development shall not encroach into the setbacks required for future street expansion.

Protection of Airport

1. The function of the Creswell Airport shall be protected through the application of appropriate land use designations to assure future land uses are compatible with continued operation of the airport.

Access Management

1. The city shall develop an access control ordinance for major roadways including arterials and major collectors.
2. Driveways shall access the street with the lowest roadway classification. For example, a house on the corner of a collector and a local street shall gain access from the local street.

**Layout and Design of Transportation Facilities**

1. Roadways shall be designed to efficiently and safely accommodate emergency service vehicles.

2. The city shall adopt standards for streets, bike lanes, multi-use paths, sidewalks, and other transportation facilities and shall require such facilities at the time of land division or development.

3. Streets, bikeways, and pedestrian ways shall be designed to meet the needs of pedestrians and cyclists in order to promote safe and convenient bicycle and pedestrian circulation in the community. Unless an equally adequate alternative route is proposed, all arterials and collectors shall have bike lanes. Bicycle facilities shall be designed for both internal circulation and to provide linkages to regional travel.

4. Direct and convenient access for motor vehicles, public transit, bicycles, and pedestrians shall be provided to major activity centers including schools and other public buildings, shopping areas, parks, and employment centers.

5. All streets, bicycle and pedestrian facilities shall connect to other existing and planned future facilities outside the development. Cul-de-sacs and other dead end street types shall be discouraged except where topography, natural features, or land development patterns preclude street connectivity. A multi-use path connecting the end of the cul-de-sac to other streets or activity areas shall be encouraged.

6. Streets identified as future transit routes shall be designed to safely and efficiently accommodate transit vehicles and pedestrians.

7. Street design shall be responsive to topographic changes and scenic views and shall minimize impacts to natural features including wetlands, drainage ways, streams, riparian areas, and wildlife corridors.

8. New pedestrian facilities and reconstructed existing facilities shall be built to city standards in accordance with state and federal law.

9. City gateways, entranceways, and other key roadways shall be identified and improved with beautification and scenic amenities. Aesthetic improvements may include street design, landscaping, lighting, utility lines, park strips, noise abatement, etc.

10. Where appropriate, the street system and its infrastructure shall be utilized to convey and treat stormwater runoff.

**Maintenance**

1. Maintenance and repair of existing roadways shall continue to be a high priority.
2. Maintenance and repair of bikeways and pedestrian ways shall be given equal priority to the maintenance and repair of automobile facilities.

**Bicycle Facilities**

1. Bicycle safety devices such as bicycle-proof drain grates, rubberized pads at railroad crossings, and appropriate signage shall be used throughout the bicycle system.

2. The city shall establish standards in the city zoning ordinance and subdivision ordinance for secure and safe bicycle parking and locking facilities for all new multi-family residential developments with four or more units, new retail development, and new office and institutional development.

**Pedestrian Facilities**

1. The city shall identify high priority areas lacking sidewalks and wheel chair curb cuts and construct improvements in these areas.

**Interstate 5 Interchange Refinement Plan**

1. The city shall coordinate with ODOT to adopt a preferred alternative for the reconstruction of the Interstate 5 Interchange and Highway 99 and Oregon Avenue redesign.

2. The city shall support ODOT's efforts to control access at least 230 meters (about 760 feet) east and west of the interchange terminal.

**Public Transportation**

1. The city shall support the provision of basic mobility service for the elderly and people with special transportation needs.

2. The city shall encourage demand management programs such as park and ride facilities, carpooling, and vanpools to reduce single-occupancy automobile trips between Creswell and the Eugene-Springfield metropolitan area.

3. The city shall encourage the development of a fixed-route public transportation service between Creswell and the Eugene-Springfield metropolitan area.

**Rail**

1. The city shall continue to support the use of the railroad for freight service by designating land along the tracks for uses that depend on freight.

**D. Proposed Street Plan**

The proposed street plan shows the general location of future street alignments. The plan is meant to serve as a guide as undeveloped parcels develop within the community. The exact location of future
streets will be determined at the time of development. In general, the proposed street plan strives to provide connections with the existing street network. The proposed roadway classification system described above indicates the proposed classification of these roadways.

As shown on Map 13, new streets west of Interstate 5 are proposed to serve the undeveloped property to the east of North 5th Street and west of the railroad tracks. Creswood Drive and North 1st Street are proposed to be extended to the north to connect with Nieblock Lane. North 1st Street is proposed to extend beyond Nieblock Lane to connect with West Lane. The proposed street plan includes a future extension of either Nieblock Lane or West Lane to the east across the railroad tracks to connect with Highway 99. This connection would provide access to undeveloped Industrial property west of the railroad tracks and also a direct connection from Highway 99 to the Fircrest Farms poultry plant on West Lane just west of Harvey Road. In the south part of the city several minor roadway extensions are proposed to enhance alternate routes for accessing Highway 99 and Butte Road. In addition, two local streets are proposed to serve developed and undeveloped parcels north and south of Oregon Avenue east of Highway 99 and Mill Street. These roadways are proposed to reduce traffic burdens on Oregon Avenue. The location of these proposed roadways is only conceptual at this time.

East of Interstate 5 the proposed street plan includes a realignment of Melton Road to the east connecting with a new road gaining access off Cloverdale Road and connecting with Dale Kuni Road near the Emerald Valley Resort. Another local street is also proposed to serve undeveloped property off Dale Kuni Road to the east.

E. Roadway Classification

The transportation system within the City of Creswell is facilitated by a hierarchy of streets. The city has identified a four tier classification system to include arterial, major collector, minor collector, and local streets. Since Interstate 5 is classified as an Interstate highway it is not part of this system. Streets perform various roles in the community ranging from carrying relatively large volumes of primarily through traffic to providing direct access to abutting property. The use of a street classification system will provide consistency among the city, county, and state transportation plans. The proposed classification system is illustrated on Map 14.

Arterials

With the exception of Oregon Avenue west of Front Street all arterial streets in Creswell also are state facilities designated as District Highways. According to the Oregon Highway Plan, the management objective of District Highways is to provide for safe and efficient moderate to high-speed continuous flow operation in rural areas reflecting the surrounding environment, and moderate to low-speed operation in urban and urbanizing areas with a moderate to high level of interruptions to flow.

Arterials are intended to serve as a primary route for travel within and between community areas. Access to an arterial is normally from the collector or local road system rather than to serve property directly. Individual access should be managed on arterials to minimize degradation to capacity and traffic safety. Sidewalks and bike lanes are normally provided on an arterial.
Proposed streets shown on this map represent future street connectivity only. Final alignments of streets may be designed to fit into proposed future development.
Creswell Transportation System Plan
Map 14
Proposed Roadway Classification

- Interstate
- Arterial
- Major Collector
- Minor Collector
- Local
- UGB

To Highway 99
Proposed Arterials: Oregon Avenue, Highway 99 (Goshen Divide Highway), and Cloverdale Road (Springfield-Creswell Highway).

**Major Collector**
A major collector is intended to serve traffic from local streets and minor collectors to the arterial system. Individual accesses are allowed but minimized to protect system capacity and traffic safety. Sidewalks and bike lanes are normally required on a major collector.

Proposed Major Collectors: Harvey Road/North 5th Street, South 5th Street/Holbrook Street/Kings Row extension to Highway 99, Butte Road, either Nieblock Lane or West Lane, Dale Kuni Road, and a proposed roadway to connect with Dale Kuni from Cloverdale Road.

**Minor Collector**
A minor collector is intended to provide access to abutting properties and to serve local access needs of neighborhoods, including limited through traffic. New development that generates a significant volume of traffic should be discouraged from locating on minor collectors that serve residential areas. Sidewalks are normally required on minor collectors and bike lanes are usually only required in accordance with the proposed bicycle plan as shown on Map 17.

Proposed Minor Collectors: A Street, North 1st Street, and D Street.

**Local Street**
A local street is intended to provide direct property access and is not intended to serve through traffic. Sidewalks are normally required as per the proposed pedestrian plan and Creswell’s Subdivision Ordinance.

Proposed Local Streets: All streets not identified in the previous categories.

**Truck Routes**
A truck route is signed as the primary access for trucks to industrial areas in Creswell. Future improvements on streets identified as truck routes should take into consideration the heavy volume of trucks, special needs for traffic control, road geometry, access during construction, and possible traffic/pedestrian/bicycle conflicts. Proposed truck routes are shown on Map 15.

Proposed Truck Routes: Highway 99 north and south of Oregon Avenue, Oregon Avenue from Interstate 5 to Highway 99, either Nieblock Lane or West Lane from Harvey Road to Highway 99, Harvey Road north of Nieblock Lane to Highway 99, and Cloverdale Road. Mill Street may also serve as a truck route on a limited basis to serve businesses along that roadway.

**F. Street Standards**
Street standards are contained in the Creswell Land Subdivision Ordinance. Street standards are presented with minimum and maximum paving and right-of-way widths. Paving widths are measured from the inside of the curb and sidewalk dimensions include a six-inch curb width. The proposed street standards will require modifications to Creswell existing street standards. Proposed street standards are compared in Table 5 and illustrated on Figures 1 - 4.
Arterials

Minimum (no parking)

6.5' | 6' | 12' | 12' | 6' | 6.5'
---|---|---|---|---|---
Sidewalk | Bike Lane | Travel Lane | Travel Lane | Bike Lane | Sidewalk

36'
Right-of-Way

60'

Maximum (on-street parking allowed)

6.5' | 8' | 6' | 12' | 12' | 6' | 8' | 6.5'
---|---|---|---|---|---|---|---
Sidewalk | Parking Lane | Bike Lane | Travel Lane | Travel Lane | Bike Lane | Parking Lane | Sidewalk

52'
Right-of-Way

120'

Typical (with center turn lane)

6.5' | 6' | 12' | 14' | 12' | 6' | 6.5'
---|---|---|---|---|---|---
Sidewalk | Bike Lane | Travel Lane | Turning Lane | Travel Lane | Bike Lane | Sidewalk

50'
Right-of-Way

80'

Creswell Transportation System Plan

Figure - 1
Proposed Street Standards
**Major Collectors**

Minimum (with bike lanes and no parking)

![Diagram showing minimum street standards with bike lanes and no parking]

Maximum (with bike lanes and on-street parking allowed)

![Diagram showing maximum street standards with bike lanes and on-street parking allowed]

---

Creswell Transportation System Plan

Figure - 2

Proposed Street Standards

Produced by LCOG, 1/98
Minor Collectors

Minimum (with bike lanes* and no parking)

Maximum (with bike lanes* and on-street parking allowed)

Typical (without bike lanes)

*bike lanes required only if identified in bicycle plan

Produced by LCOG, 1/98

Creswell Transportation System Plan
Figure - 3
Proposed Street Standards
Local Streets

Minimum (no parking)

5.5' 12' 12' 5.5'
Sidewalk Travel Lane Travel Lane Sidewalk

24'
40'
Right-of-Way

Maximum (on-street parking)

5.5' 8' 10' 10' 8' 5.5'
Sidewalk Parking Lane Travel Lane Travel Lane Parking Lane Sidewalk

36'
60'
Right-of-Way

Typical (on-street parking)

5.5' 7' 9' 9' 7' 5.5'
Sidewalk Parking Lane Travel Lane Travel Lane Parking Lane Sidewalk

32'
50'
Right-of-Way

Creswell Transportation System Plan
Figure - 4
Proposed Street Standards

Produced by LCOG, 1/98
Table 5
Proposed Street Standards

<table>
<thead>
<tr>
<th>Street Type</th>
<th>R.O.W. Width</th>
<th><strong>Paving Width</strong></th>
<th>*Sidewalk Width</th>
<th>Bike Lane Width</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Min.</td>
<td>Max.</td>
<td>Min.</td>
<td>Max.</td>
</tr>
<tr>
<td>Arterial</td>
<td>60 ft.</td>
<td>120 ft.</td>
<td>36 ft.</td>
<td>52 ft.</td>
</tr>
<tr>
<td>Major Collector</td>
<td>50 ft.</td>
<td>80 ft.</td>
<td>34 ft.</td>
<td>46 ft.</td>
</tr>
<tr>
<td>Minor Collector</td>
<td>50 ft.</td>
<td>80 ft.</td>
<td>34 ft.</td>
<td>46 ft.</td>
</tr>
<tr>
<td>Local Street</td>
<td>40 ft.</td>
<td>60 ft.</td>
<td>24 ft.</td>
<td>36 ft.</td>
</tr>
</tbody>
</table>

* - Includes curb width.
** - Measured inside of curb to inside of curb.

G. Interstate 5 Interchange Refinement Plan

The Creswell / Interstate 5 Interchange Refinement Plan was conducted simultaneously and directly with the Creswell TSP. Details of the interchange alternative are contained in the ODOT Refinement Plan in Appendix D. The preferred refinement plan alternative is presented as Map 16.

Three design concepts of the interchange and Highway 99 were presented to the Creswell CAC. Based on recommendations from the CAC and ODOT, Concept 1 was forwarded as the preferred alternative.

Concept 1 has three distinct but related elements: 1) calls for improving the interchange, 2) shows improvements for the intersection of Highway 99/Oregon Ave. and, 3) involves access management to ensure the safety and operations of the investment. The total cost is $ 13.5 million.

**Interchange Reconstruction Improvements: Cost -- $7.5 million**

- Reconstruct existing interchange to current design standards.
- Provide a second southbound entrance ramp when necessary.
- Include signalization at ramp terminals.
- Move west ramp terminal is 50 meters to the east.
- Move intersection of Melton Road 175 meters to the east.
- Reconstruct interchange bridge to three lanes and provide for all travel modes.
- Improve Oregon Ave. (west ramp to Highway 99) to a five lane section.

**Highway 99/Oregon Ave. Intersection Improvements: Cost -- $6 million**

- Construct a grade separated crossing over the railroad connecting Mill St. to the S. Highway 99 (Goshen-Divide).
- Improve the existing signal at the Oregon Ave./Highway intersection.
- Include a signal at new Kings Row and Highway 99 intersection.
- Provide possible accesses along Highway 99 to the commercial areas north and south of Oregon Ave.
- Mitigate right of way impacts along the improved Highway 99 section south of Oregon Ave.

**Access Management**

- Construct median treatments along Oregon Ave. from the west ramp to the Highway 99/Mill St. intersection.
- Move Melton Road further to the east.
Map 16
Creswell Interstate 5
Interchange Refinement Plan

**CONCEPT 1**
CRESWELL INTERCHANGE REFINEMENT PLAN
SEPTEMBER 30, 1997

**** Major Realignment of
*** S. GOSHEN-DIVIDE HWY. ***
*** Railroad Grade Separation ***

**LEGEND**
- Traffic Signal
- New Construction
- Right of Way Impact
- Bridge
• Develop access control line 150 meters from the west ramp terminal.
• Enforce existing access control lines from the east ramp terminal.
• Provide local street accesses from Highway 99 and Mill St. to the commercial areas along Oregon Ave.

**Implementation Actions**

- Coordinate with Creswell TSP Citizen Advisory Committee.
- Conduct meetings or open houses with interested groups or individuals.
- Local adoption of interchange plan by Creswell Planning Commission and City Council.
- Adoption by Lane County Board of Commissioners.
- Review and endorsement by ODOT.
- Future inclusion into the Statewide Transportation Improvement Program (STIP).

**H. Access Management**

Access to roadways and mobility along these roadways often conflict. Access management strives to balance access to developed land while ensuring movement of traffic in a safe and efficient manner. As described above, different roadways are designed for different purposes. Local roads are designed for local traffic, slow speeds and numerous driveways. Collectors have a balanced responsibility where access to adjacent properties is as important as movement. Collectors typically carry a moderate volume of traffic during the day, with increasing traffic during the morning and evening commute. Arterials carry the majority of commuter traffic, goods, and services each day across the city. Movement is more critical on arterials than access to adjacent property.

Access management must be closely coordinated with the Oregon Department of Transportation and Lane County. ODOT has two types of access management for state roadways: access by permit and access control. Areas with access control and the jurisdictional responsibility of Creswell road system are shown on Map 3. In general, ODOT has access control on Oregon Avenue about 750 feet west of the interchange and on Cloverdale Road from the interchange to the east edge of the UGB. Access points should be spaced according to Table 6 below.

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<tr>
<td>Minor Collector</td>
<td>50 feet</td>
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<tr>
<td>Local Street</td>
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**I. Proposed Bicycle Plan**

The proposed bicycle plan is illustrated on Map 17. As described earlier, no bike lanes currently exist in the city. The proposed bicycle plan includes a combination of on-street striped bike lanes and off-street multi-use paths. Three multi-use paths are shown on the proposed bicycle plan to connect Art Lott Lane with Garden Lake Park, to connect the west-end of D Street with Oregon
Avenue through Creswell Middle School, and to connect Oregon Avenue with Nieblock Lane to the north. These paths will serve both pedestrian and bicycle travel and provide recreational and travel oriented opportunities.

The proposed bicycle plan includes on-street bike lanes on all arterials and major collectors with a few exceptions. At the preference of the CAC, bike lanes are not included on Oregon Avenue. An alternative route is proposed along both A Street north of Oregon Avenue and D Street south of Oregon Avenue. These routes are proposed to connect with Oregon Avenue at Front Street/Highway 99 on the east and 10th Street/Butte Road on the west. In addition, the D Street bike lane would connect with a proposed multi-use bicycle path through the Creswell Middle School. Both A Street and D Street are classified as minor collectors. Other bicycle facilities include bike lanes on Highway 99 North and South and Cloverdale Road.

**J. Proposed Pedestrian Plan**

Map 18 illustrates the proposed pedestrian plan. This map shows the location of existing and proposed sidewalk improvements which are expected to occur within the planning period. Over time, most streets within the Creswell UGB may eventually have sidewalks. The pedestrian plan strives to provide pedestrian connections between residential areas and pedestrian destinations such as schools, parks, and the commercial district. Sidewalk widths are specified in the street standards section according to roadway classification. For new street improvements, sidewalks are required at the time of development. The timing of the installation of the sidewalks is specified in the Land Subdivision Ordinance.

In addition to filling in gaps in the sidewalk system around the schools and park, sidewalks are proposed along the east side of Highway 99 north of Oregon Avenue and along the east side of Butte Road south of Oregon Avenue. Three multi-use paths are also shown on the pedestrian plan to connect Art Lott Lane with Garden Lake Park, to connect the west end of D Street with Oregon Avenue through Creswell Middle School, and to connect Oregon Avenue with Nieblock Lane to the north. These paths will serve both pedestrian and bicycle travel.

**K. Proposed Transit Plan**

The Lane Transit District began providing service to Creswell on September 22, 1997. This service is being offered on a trial basis for 12 months. Service is offered six times daily during weekdays and two times on Saturday. Route 98 which serves Creswell also provides service to Cottage Grove on the same schedule. Service within Creswell is limited to a park and ride located near the corner of South 1st and C Streets. Service within Cottage Grove provides a loop by Wal-Mart and the downtown commercial area.

Map 19 shows the location of the existing park and ride facility and the location of other possible transit service areas. Within the 20-year planning horizon it is likely a looped transit route would be feasible within Creswell. The feasibility of this service will be evaluated as the pilot project progresses.

The city should continue to support programs such as “Dial a Ride” and South Lane Wheels which provide service to the elderly and people with special transportation needs.
Proposed Sidewalks include areas with no sidewalk or reconstruction of inadequate facilities.
Creswell Transportation System Plan

Proposed Transit Service Areas

- Proposed Transit Stop
- Existing Transit Stop

Map 19

To Highway 99

Emerald Valley Resort

Creswell Transportation System Plan

Proposed Transit Service Areas
A. Introduction

Implementation of the TSP will require a combination of capital improvements, ordinance amendments, and other implementation strategies such as education. Plan implementation also involves both site-specific improvements and system-wide enhancements. This chapter identifies proposed projects, ordinances, and strategies to implement the goals and policies of the TSP. Capital projects are grouped according to the proposed timing and priority of the project: high priority (one to five years), medium priority (six to ten years) and low priority (more than ten years). Potential funding sources and financing mechanisms for these projects are discussed in Chapter Six. A summary of all proposed capital projects is presented in the following Table 7. Cost assumptions used to calculate project costs are included in Appendix G.

B. Capital Projects

High Priority Projects

The following projects are the highest priority projects expected to be completed within the next one to five years. Projects are presented in random order and are shown on Map 20. Project timing will depend on identifying and securing funding. The project lead for each is identified for each high priority project based on jurisdictional responsibility.

1. North 5th Street - North 5th Street from Oregon Avenue north to Morse is identified in the proposed street classification system as a major collector to serve north-south traffic north of Oregon Avenue. This 2,200 foot section is currently undersized and sidewalks are lacking in many areas. North 5th Street is identified to have bike lane in the proposed bicycle plan. Parking is a consideration in determining the project design width. A typical section for a major collector with parking on both sides is 46 feet of paving. The estimated cost of this section including sidewalks and bike lanes is $261,800. This estimate includes a 40 percent contingency cost but does not include the cost for right-of-way acquisition if needed.

Project Lead - City

2. South 5th Street - South 5th Street from Oregon Avenue south to Holbrook is also identified in the proposed street as a major collector to serve as a bike route. This two block section ties in with a proposed bike lane and street improvements on D Street. The major collector system uses D Street for a half block before continuing south on Holbrook Lane. The estimated cost of full improvements for this 600 foot section including sidewalks and bike lanes is $71,400. This estimate includes a 40 percent contingency cost but does not include the cost for right-of-way acquisition if needed.

Project Lead - City
Project #6 is not shown on map and will occur in various locations.
3. **D Street** - D Street from Highway 99 to its end at the Creswell Middle School is also identified as a minor collector in the proposed classification system. It is also proposed to include bike lanes and serve as an alternate route to Oregon Avenue. D Street is also proposed to connect South 5th Street to Holbrook Lane as part of the major collector system. This 1,695 foot section would include a 38 to 42-foot paving section, sidewalks, and striped bike lanes. Parking would only be allowed on one side. The estimated cost of this project is about $189,840 including a 40 percent contingency cost. This estimate does not include the cost of right-of-way acquisition if needed.

Project Lead - City

4. **A Street** - A Street from Front Street west to 10th Street is identified as a minor collector in the proposed classification system. It is also proposed to include bike lanes as an alternate route to Oregon Avenue. This 2,400 foot section from Front Street to about 7th Street is currently undersized and many areas are lacking sidewalks. This project would reconstruct A Street to 42 feet including sidewalks and bike lanes to 7th Street and provide bike lane striping from 7th Street to 10th Street. The estimated cost of this project is about $272,160 including a 40 percent contingency cost. This estimate does not include the cost of right-of-way acquisition if needed.

Project Lead - City

5. **Miscellaneous Bike Lane Striping** - Several other streets are identified in the proposed bicycle plan as high priority projects. The streets listed below are generally in good repair and have adequate capacity in the short term and only the addition of bike lanes is needed. The estimated cost of bike lane strip on both side of these streets is $38,260.
   - Front Street from Oregon Avenue to A Street (630 feet)
   - Holbrook Lane from D Street to Kings Row (1,269 feet)
   - 10th Street from Oregon Avenue to A Street (650 feet)
   - Oregon Avenue from 10th Street west to edge of UGB (1,277 feet)

Project Lead - City

6. **Bicycle System Signage, Safety Devices, and Parking (not shown on map)** - As the city encourages bicycle usage, certain system repairs such as installing bicycle-proof storm drain gates, rubberized pads at railroad crossing and other necessary safety devices will be necessary. These repairs are estimated to cost about $3,000. An additional cost of $2,000 is estimated for bicycle system signs and stencils. The city should work with other agencies and business owners as needed to provide adequate bicycle parking at schools, parks, shopping and employment centers, park and ride facilities, and other bicycle destinations. The estimated cost of these improvements is $2,000. The total cost of this project group is estimated at $7,000.

Project Lead - City

7. **D Street Multi-use Path** - A multi-use path is proposed to be constructed from the west end of D Street near the Creswell Middle School to connect with Oregon Avenue. This path would serve both pedestrian and bicycle functions. The path would be about ten feet wide and constructed of
asphalt. This 650 foot path would cost approximately $10,920 including a 40 percent contingency cost.

Project Lead - City and School District

8. **Miscellaneous Sidewalks** - Several street sections within the city are in relatively good condition and only lack adequate pedestrian facilities. Both of the projects listed below would include a sidewalk on only the east side of the road. The estimated cost of these projects is $93,660. Because both of these roadways may need further widening and repairs in the future, a temporary sidewalk installation may be appropriate. This project could consist of an asphalt pedestrian walkway with rolled curb. The cost of this installation would reduce the project cost to about $40,000. These projects include:
   - Highway 99 from Oregon Avenue to Martin Road (3,104 feet)
   - Butte Road from Oregon Avenue to Killingsworth. (1,356 feet)

Since Highway 99 is a state facility this project would need to coordinated with the Oregon Department of Transportation. This project should also be coordinated with Medium Priority Project 1 described below.

Project Lead - City and ODOT

9. **Harvey Road** - This project is outside the Creswell UGB but influences activities within it. The intersection of Harvey Road and Highway 99 presents limitation to truck usage. The Fircrest Farms facility is located along Harvey Road. Trucks entering and leaving the facility often use North 5th Street and Oregon Avenue. Conversations with Fircrest management indicate that usage of the Harvey Road route would become more feasible if improvements were made to this intersection. This route is identified in the TSP proposed truck routes plan. The city should encourage Lane County to include this project in the county’s capital improvements project list. The cost of this project is unknown.

Project Lead - Lane County

10. **Front Street** - This project involves closing Front Street to only one-way traffic going north from Oregon Avenue to B Street. Safety issues associated with automobiles entering Oregon Avenue at this intersection would be eliminated. The project would mainly involve signage and minor striping changes. Bicycles would still be able to use this section traveling south. Automobiles wanting to enter Oregon Avenue would be re-routed to North 1st Street. This project is estimated to cost $3,500.

Project Lead - City

11. **Oregon Avenue - Interstate 5 Interchange to Front Street** - Access management, safety improvements, and adequate bicycle and pedestrian facilities are severely inadequate along this stretch of Oregon Avenue. This section of roadway receives the highest traffic volumes of any street in the city. Moderate levels of congestion are experienced today with increasing congestion assured in the future. This roadway segment is one of the focuses of the ODOT Interstate 5 Interchange Refinement Plan. This project is to continue to support ODOT in its
efforts to develop short, medium, and long range solutions. Short term solutions could include such projects as access management strategies, consolidation of access points, installation of adequate pedestrian and bicycle facilities, and other safety devices at key intersections and the railroad track.

Project Lead - ODOT

12. **Gateway Enhancements** - This project would provide signage and other landscaping treatments to various city gateway areas. These areas should include Highway 99 north and south entrances, Oregon Avenue west entrance, and Cloverdale Road east entrance. This project is estimated to cost $2,000.

Project Lead - City and State

**Medium Priority Projects**

The following projects are the medium priority projects expected to be completed within the next six to ten years. Projects are presented in random order as shown on Map 21. The priority and timing of these projects will be evaluated when evaluation of the TSP occurs in three to five years. Project timing will depend on identifying and securing funding.

1. **Highway 99 from Oregon Avenue to Martin Road** - Highway 99 north of Oregon Avenue is identified as a major collector and to contain bike lanes. This roadway serves both through traffic trips and local trips to housing and businesses. This project would involve minor roadway widening and the installation of sidewalks and bike lanes. High Priority Project 8 described above prescribed the installation of sidewalks along the east side of this segment. These projects should be coordinated. This project calls for the completion of roadway widening improvements and the installation of full sidewalk and bike lane improvements. The estimated cost of this project is $108,920 including a 40 percent contingency cost. This project will require coordination with ODOT.

2. **Highway 99 from Oregon Avenue to Market Street** - Highway 99 south of Oregon Avenue is also identified as a major collector and to contain bike lanes. This 4,200 foot section would involve minor roadway widening and the installation of bike lanes and sidewalks on only the west side. The estimated cost of this project is $147,000 including a 40 percent contingency cost. This project will require coordination with ODOT.

3. **West Lane or Nieblock Lane from Harvey Road to Highway 99** - This project is proposed as a new road construction to provide an alternative route to access Highway 99 in the north part of the city. The proposed roadway would provide direct access to the Fircrest Farms facility and undeveloped industrial property west of the railroad tracks. The proposed route would require a railroad crossing near Highway 99. Two alternative routes are proposed at this time. Further study will be required to select a preferred route. The preferred route is designated in the proposed classification system as a major collector and would include sidewalks and bike lanes. Right-of-way currently exists for most of the section west of the railroad tracks. The cost of this 2,200 foot section for roadway, sidewalks, and bike improvements including a 40 percent...
Creswell Transportation System Plan
Map 21
Medium Priority Projects (6-10 Years)

Medium Priority Capital Projects

[Diagram of Creswell showing various streets, schools, and parks with a legend indicating UGB (Urban Growth Boundary)].

Produced by LCOG 1/98
contingency cost is estimated at $261,800. The cost of railroad crossing improvements is unknown at this time.

4. **North 1st Street from Oregon Avenue to end** - North 1st Street is identified in the proposed classification system as a minor collector and is not proposed to include bike lanes. This project involves roadway widening to about 36 feet and sidewalk installation. Sidewalks in this area are mostly lacking. Improvements to this roadway would assist with balancing traffic volumes along North 5th Street. North 1st Street is proposed to eventually connect with West Lane to the north. The estimated cost of this 1,600 foot section including a 40 percent contingency cost is $104,000.

5. **Cloverdale Road from Interstate 5 to Dale Kuni Road** - This project includes striping bike lanes on both sides as identified in the proposed bicycle plan. Most of this section is currently adequate to include these facilities. This project should be coordinated with ODOT. The estimated cost of this project including a 40 percent contingency cost is $53,340.

6. **Miscellaneous Bike Lane Striping** - This project includes bike striping and minor shoulder work on several more streets identified in the proposed bicycle plan. The estimated cost of these projects is $189,840 including a 40 percent contingency cost.
   * Butte Road from Oregon Avenue to UGB south (3,000 feet)
   * Nieblock Lane from Harvey road to west end (2,500 feet)
   * Harvey Road from Morse St. to UGB north (2,400 feet)
   * Dale Kuni Road from Cloverdale Road to Emerald Valley Resort (3,400 feet)

7. **Miscellaneous Sidewalk Paving** - Several street sections within the city are in relatively good condition and only lacking adequate pedestrian facilities. The projects listed below would include a sidewalk on both sides and some minor roadway repair work. The estimated cost of these projects including a 40 percent contingency is $104,098. These projects include:
   * North 9th Street from Oregon Ave. to A Ave. (644 feet)
   * North 7th Street from Oregon Ave. to A Ave. (653 feet)
   * F Street from Highway 99 to Holbrook (1267 feet)

8. **LTD Park and Ride** - This project involves an evaluation of appropriate public transit facilities in the community. A city owned property at the corner of South 1st and C Street is currently being used to serve LTD. This project will assess the adequacy of this site or proposed an alternative location. Project siting should give consideration to automobile, pedestrian, and bicycle connections and to the availability of other amenities such as sewer and water.

9. **Downtown Parking and Design** - This project will evaluate the feasibility of converting diagonal parking located along Oregon Avenue west of Front Street to parallel parking. The project will also evaluate alternative parking locations and other downtown pedestrian and bicycle oriented design features, for example, the inclusion of trash enclosures, seating, drinking fountains, bicycle racks, and landscaping. The project will strive to implement low cost solutions where feasible. The estimated cost of the evaluation phase of this project is estimated at $5,000 - $10,000. Implementation cost will depend on the preferred solutions.
Low Priority Projects

The following projects are the low priority projects expected to be completed in greater than ten years. Projects are presented in random order as shown on Map 22. The priority and timing of these projects will be evaluated when evaluation of the TSP occurs in three to five years. Project timing will depend on identifying and securing funding. Cost estimates for these projects are only included when they can be readily calculated. The actual project costs may be higher depending on when the projects are conducted.

1. **Multi-Use Bike Paths** - Two additional multi-use paths are proposed within the study area. These paths would serve both pedestrian and bicycle functions and would be about ten feet wide and constructed of asphalt. The total paving for these project is estimated to cost $70,560 including a 40 percent contingency cost. The Art Lott Lane to Garden Lake Park multi-use path connection may involve additional costs associated with facilities to get under Interstate 5. A small bridge crossing already exists in this location. The two projects are:
   - Oregon Avenue to Nieblock (3,200 feet)
   - Art Lott Lane to Garden Lake Park (1,000 feet)

2. **Kings Row from Holbrook to Highway 99** - Kings Row is classified in the proposed classification system as a major collector to provide an alternative access to Highway 99 in the southeast portion of town. It is already identified to include bike lanes. The right-of-way for this extension is already purchased. The estimated cost of this project including a 40 percent contingency cost is $191,192.

3. **Interstate 5 Interchange and Highway 99 Refinement Plan** - ODOT is currently working on this project. A preferred alternative was selected by CAC and a list of improvements and project costs developed. The specifics of this project are presented in the Refinement Plan. The inclusion of this project in the low priority is more a function of the size of the project and the reality of securing the required funding rather than the need for the project. As mentioned previously, the study area for the refinement plan contains the majority of Creswell’s transportation related issues. As development continues to put pressure on this system the need for this project will increase. The estimated cost of the preferred refinement plan alternatives is $13.5 million ($7.5 million for interchange work and $6.0 million for Highway 99 realignment).
Table 7

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<td><strong>Medium Priority Projects, 6 to 10 Years</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Highway 99</td>
<td>Oregon Ave</td>
<td>Martin Rd</td>
<td>3,104</td>
<td>Upgrade X</td>
<td>X</td>
<td></td>
<td></td>
<td>City/ODOT</td>
<td>$108,920</td>
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<tr>
<td>2</td>
<td>Highway 99</td>
<td>Oregon Ave</td>
<td>Market Street</td>
<td>4,200</td>
<td>Upgrade X</td>
<td>X</td>
<td></td>
<td></td>
<td>City/ODOT</td>
<td>$174,000</td>
</tr>
<tr>
<td>3</td>
<td>West Ln or Nieblock Ln</td>
<td>Harvey Rd</td>
<td>Highway 99</td>
<td>2,200</td>
<td>New X</td>
<td>X</td>
<td></td>
<td></td>
<td>City</td>
<td>$261,800</td>
</tr>
<tr>
<td>4</td>
<td>North 1st Street</td>
<td>Oregon Ave</td>
<td>End</td>
<td>1,600</td>
<td>New X</td>
<td></td>
<td></td>
<td></td>
<td>City</td>
<td>$104,000</td>
</tr>
<tr>
<td>5</td>
<td>Cloverdale Rd</td>
<td>I-5</td>
<td>Dale Kuni Rd</td>
<td>3,810</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
<td>ODOT</td>
<td>$53,340</td>
</tr>
<tr>
<td>6</td>
<td>Misc. Bike Lane Striping</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>Butte Rd</td>
<td>Oregon Ave</td>
<td>UGB South</td>
<td>3,000</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
<td>City</td>
<td>$50,400</td>
</tr>
<tr>
<td>B</td>
<td>Nieblock Ln</td>
<td>Harvey Rd</td>
<td>West End</td>
<td>2,500</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
<td>City</td>
<td>$42,000</td>
</tr>
<tr>
<td>C</td>
<td>Harvey Rd</td>
<td>Morse St</td>
<td>UGB North</td>
<td>2,400</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
<td>County</td>
<td>$40,320</td>
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<tr>
<td>D</td>
<td>Dale Kuni Rd</td>
<td>Cloverdale Rd</td>
<td>Emerald Valley Resort</td>
<td>3,400</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
<td>County</td>
<td>$57,120</td>
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<tr>
<td>7</td>
<td>Misc. Sidewalk Paving</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>North 9th St</td>
<td>Oregon Ave</td>
<td>A St</td>
<td>644</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
<td>City</td>
<td>$26,331</td>
</tr>
<tr>
<td>B</td>
<td>North 7th St</td>
<td>Oregon Ave</td>
<td>A St</td>
<td>635</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
<td>City</td>
<td>$25,963</td>
</tr>
<tr>
<td>C</td>
<td>F Street</td>
<td>Highway 99</td>
<td>Holbrook</td>
<td>1,267</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
<td>City</td>
<td>$51,804</td>
</tr>
<tr>
<td>8</td>
<td>LTD Park and Ride</td>
<td>Corner of South 1st and C St</td>
<td>N/A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Study</td>
<td>City Unknown</td>
</tr>
<tr>
<td>9</td>
<td>Downtown Parking and Design</td>
<td>Oregon Ave</td>
<td>West of Front</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Study</td>
<td>City $5,000</td>
</tr>
<tr>
<td><strong>Low Priority Projects, &gt; 10 Years</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>1</td>
<td>Multi-Use Bike Paths</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>Path</td>
<td>Oregon Ave</td>
<td>Nieblock Ln</td>
<td>3,200</td>
<td></td>
<td></td>
<td></td>
<td>Multi-Use Path</td>
<td>NA</td>
<td>$53,760</td>
</tr>
<tr>
<td>B</td>
<td>Path</td>
<td>Art Lott Lane</td>
<td>Garden Lake Park</td>
<td>1,000</td>
<td></td>
<td></td>
<td></td>
<td>Multi-Use Path</td>
<td>NA</td>
<td>$16,800</td>
</tr>
<tr>
<td>2</td>
<td>Kings Row</td>
<td>Holbrook</td>
<td>Highway 99</td>
<td>1,720</td>
<td>New X</td>
<td>X</td>
<td></td>
<td>No Project</td>
<td>NA</td>
<td>$191,192</td>
</tr>
<tr>
<td>3</td>
<td>I-5 Interchange Refinement Plan</td>
<td>I-5</td>
<td>Highway 99</td>
<td>1,445</td>
<td>Upgrade X</td>
<td>X</td>
<td></td>
<td>ODOT</td>
<td>$13,500,000</td>
<td></td>
</tr>
</tbody>
</table>
C. Ordinance Revisions

Several areas have already been discussed requiring amendments to Creswell’s Land Subdivision or Zoning Ordinances. The specific wording of these revision will be developed during the final draft plan phase. Some of the topics to be addressed in Ordinance revisions include the following:

1. Street Design Standards - adopting new standards as described in Chapter Four and other design considerations.

2. Allowing modifications to the range of adopted street standards. Modifications would require approval by the Planning Commission and City Fire Chief according to set of identified criteria.

3. Access Management and Access Spacing Standards as described in Chapter Four.

4. Bicycle Parking Requirements for multiple family and commercial development.

5. Allowing Reductions in Automobile Parking Requirements.

6. Modifying Land Subdivision to encourage street and pedestrian connectivity.

7. Developing specific standards for pedestrian and bicycle facility design.

8. Include public transportation considerations in subdivision and site review.
A. Introduction

As described in the previous chapter, a number of projects have been identified to implement the TSP. Several of the projects are needed to improve the existing street system. Other projects addressing alternative modes, such as pedestrian, bicycle, and public transportation, will warrant additional facilities and services to safely accommodate future demand. Unlike the roadway funds, funding sources are limited bicycle improvements. The total cost of proposed bicycle system improvements is significantly higher than the local share of Bicycle Funds available. For this reason, a bicycle funding strategy for improvements should emphasize alternate sources, consolidation with other street and maintenance projects, and cost effective improvements such as re-striping. Funding for these and other projects will come from a variety of sources as summarized below.

B. Federal Funding Sources

Some federal funding programs are administered by the state. Those programs are listed in this section.

Intermodal Surface Transportation Efficiency Act (ISTEA): Funding through the ISTE A Act is targeted to improvements which demonstrate beneficial impacts toward implementing a region’s transportation system plan, enhance the multi-modal nature of the transportation system, and meet local land use, economic, and environmental goals. Funding categories created by ISTE A are intended to provide an area with more discretion in allocating federal transportation funds to projects from highway improvements to transit improvements, management systems, and non-vehicular modes such as bicycle and pedestrian improvements. The ISTE A funding programs include: National Highway System, Interstate Program, Surface Transportation Program, and National Scenic Byways Program. The federal legislation authorizing ISTE A terminated in November 1997. The program was extended by President Clinton for an additional six months. A new federal funding package is currently under development, but there is uncertainty about continuation of, and/or funding levels for, some existing programs.

Highway Enhancement System (HES)  
This Federal Highway Administration program provides funding for safety improvements on public roads.

National Highway System (NHS)  
Provides funding for a variety of activities on any highway currently designated as a principal arterial. In Creswell, this would mean Interstate 5.

Surface Transportation Program (STP)  
Funding for transportation enhancement activities is provided under the STP of the ISTE A. These enhancement activities include the provision of facilities for pedestrians and bicycles. Ten percent of each state’s share of STP funds are to be set aside for transportation enhancements. These funds are dispersed through ODOT’s regional offices. The project must be included in the State Transportation Improvement Program (STIP) to receive STP funds. This is the most flexible of the
funding programs and can fund improvements on any highway except those with a functional classification of local street or rural minor collector. These roads are now collectively referred to as Federal-aid routes. Transit capital improvement projects are also eligible for funding through this category. Each eligible city is suballocated a portion of the State’s STP funds. The project sponsor must request inclusion of the project in the annual Transportation Improvement Program.

**Transportation Enhancement Program**
The state is required to set aside a portion of its STP funds for projects that will enhance the cultural and environmental values of the state’s transportation system. Projects need to demonstrate a link to the intermodal transportation system. It funds enhancements including mitigation of water pollution due to highway runoff, landscaping or other scenic beautification, bicycle/pedestrian projects, historic preservation, acquisition of scenic easements and scenic or historic sites, archaeological planning and research, and preservation of abandoned railway corridors.

**Highway Bridge Replacement and Rehabilitation Program (HBRR)**
This program provides funding for the replacement and rehabilitation of structures regardless of functional classification. A portion of the HBRR Program is allocated for the improvement of structures under the jurisdiction of cities and counties. Bridges under local jurisdiction are added to the program based on a selection process agreed upon by ODOT, the League of Oregon Cities, and the Association of Oregon Counties. A technical ranking system, based on sufficiency rating, cost factor, and the load capacity is applied to proposed projects, and those ranking highest statewide receive top priority funding.

**Timber Receipts**
The U.S. Forest Service and Bureau of Land Management share revenue from timber receipts with counties in Oregon. Lane County then shares with the cities within the county through a county/city road partnership agreement. The share of forest revenues is no longer directly tied to the level of timber harvests. The USFS revenues have permitted Lane County to make significant capital improvements to its road system. Funds from this source are declining.

**Community Development Block Grants (CDBG)**
CDBGs are administered by the Department of Housing and Urban Development and accessed through the state. Although CDBG funds could be used for transportation projects in eligible areas cities, these funds have traditionally been used for other types of infrastructure projects.

**Land and Water Conservation Fund**
This grant program is administered by ODOT. Funds are derived under Public Law 88-578 from the National Park Service, Department of the Interior. Grants are available for the acquisition of land and the development of public outdoor recreation facilities. Grants are limited to 50 percent of the total project cost. The cities and counties are responsible for the remaining project cost. Bicycle/pedestrian paths have been funded under this program in instances where they have been shown as needed in connection with outdoor recreation activities.

**Local Rail Freight Assistance (LRFA)**
Rail freight improvement projects compete nationally for scarce federal LRFA program funds that must be matched by state, local or private sources. LRFA provides grants to rehabilitate low density
branch and short line railroads, allowing them to provide cost effective rail freight service to communities.

C. State Funding Sources

Oregon Department of Transportation

Statewide Transportation Improvement Program (STIP)
ODOT allocates state and federal funding for transportation projects in the STIP. The STIP is a staged, multi-year, statewide, intermodal program of transportation projects. The STIP is not a funding source, rather it is a project prioritization and scheduling document developed through various planning processes involving local and regional governments and transportation agencies. Aeronautics, rail, public transit, bicycle/pedestrian and highway projects are included. Public meetings are held throughout the state prior to adoption by the Oregon Transportation Commission (OTC). The adopted STIP lists projects by ODOT's regions. These regional offices are responsible for administration and disbursement of the funds.

State Highway Fund (also known as gas tax)
The State of Oregon collects gas tax revenues, vehicle registration fees, and weight mile taxes on freight carriers. ODOT, through the Department of Revenue, receives these revenues and disperses a portion of them to individual cities and counties based on their percent of statewide population. The Oregon constitution limits the use of these funds to capital projects within right-of-ways. ODOT uses their allocation for maintenance and to fund capital projects in the STIP. Cities may use funds for local street, bike lane and sidewalk upgrades, maintenance, and new construction. A reasonable amount of this fund (at least one percent) must be spent on bicycle and pedestrian facilities.

ODOT administers an annual grant program for bicycle and pedestrian projects using Highway Fund money. This grant program funds projects that cost up to $100,000 and is based on a 20 percent local match. It is for bicycle and pedestrian projects within road right-of-ways or for bicycle maps.

Access Management Program
Approximately $500,000 is set aside each year to address access management issues, including the evaluation of existing approach roads to state highways. Over the years, many approach roads have become unsafe due to higher speeds and increased traffic volumes. The program will identify those locations, determine necessary mitigation, prioritize improvements, and correct problems.

Local Government Fund Exchange
This program helps local governments make the most effective use of limited transportation funding. To reduce their administrative burden, local governments can agree to develop their projects with state funds, which are easier to administer, while the state uses the local governments' federal funds for state projects. This program allows flexibility in spending.

Community Transportation Program (CTP)
The CTP provides money to fund public and special needs transportation in small cities and communities throughout the state. The program is financed by a combination of state, federal, and local matching funds. The program is a unified project application, review and selection process for discretionary funds. These funds are made available under the Federal Transit Act, Elderly Persons
with Disabilities Program, the Non-Urbanized Area Formula Program, and the Special Transportation Fund.

Special Transportation Fund (STF)
The **Special Transportation Fund for the Elderly and Disabled** (ORS 391.800 - 391.830) revenues are collected through the state cigarette tax and distributed based on a formula that considers the elderly population in poverty. The funds that come into Lane County are then allocated to the rural districts based on population and service needs according to the STF Advisory Committee. The STF is the only dedicated revenue source in the State of Oregon for specialized transportation for the elderly and disabled. This funding source has been declining over the years due to the reduction in the amount of cigarette tax collected. There is awareness that new sources of revenue are needed. Acting on behalf of LTD, Lane Council of Governments oversees and coordinates with providers to operate services funded through STF.

Rail Freight Program
Although ODOT does not own or operate any rail lines, the ODOT Rail Freight Program assists in the rehabilitation of publicly and privately-owned rail lines through planning and the administration of federal and state funded programs.

State Rail Rehabilitation Fund
The fund was established by the state legislature to be used for rail line acquisition, track rehabilitation, improvement of rail properties, planning, or any other method of reducing the costs of lost rail service. However, this program has never received an allocation of funds.

Oregon Economic Development Department (OEDD)

Special Public Works Funds (SPWF)
The State of Oregon, through lottery proceeds passed through the OEDD, has provided grants and loans to local government to construct, improve and repair public infrastructure in support of local economic development and job creation. The application of this funding source for transportation improvements is limited. Funds for rail projects are also available through the OEDD. Projects must compete with other public works projects submitted by local and state agencies. As of 1996, OEDD had administered approximately $4.5 million in lottery funds to develop three rail projects.

Immediate Opportunity Fund
ODOT funds the Immediate Opportunity Fund through an annual $5 million allotment from the State Motor Vehicle Fund. OEDD administers the fund. The funds are set aside to provide OEDD the opportunity to respond quickly to transportation improvements that demonstrate a significant benefit to economic development and job creation. The program has been expanded recently to include alternate modes that reduce vehicle miles traveled (VMT), and for new technologies that improve commerce or safety. The maximum amount available for a single project is $500,000. A key factor in determining eligibility for funds is whether an immediate commitment of funds is required to influence the location, relocation, or retention of a firm in Oregon. Funding is reserved for cases where an actual transportation problem exists, and where a location decision hinges on immediate commitment of road construction resources.
D. Lane County Funding Sources

Lane County Road Fund
This is a set of funds collected from the county’s share of the state motor vehicle fund and federal timber receipts. These funds can be used for the restoration and upgrading of county facilities such as Harvey Road, Butte Road, and West Lane.

Economic Development Assistance Program (EDAP)
EDAP is funded through the county road fund. Funds may be used to improve the marketability of “for sale” industrial properties or to improve access to existing industrial businesses. The goal of EDAP is to create family wage jobs which directly benefit local communities. The future of this funding source is in question due to the county’s diminishing share of federal timber receipts.

Payroll Tax
Lane Transit District typically funds their services through a employer payroll tax.

E. City Funding Sources

City Transportation Fund
This is a set of funds from the city’s share of the state motor vehicle fund and the federal timber receipts allocated through Lane County. See above for more description of these funding sources.

System Development Charges
System Development Charges (SDCs) could be collected as vacant parcels of land are developed or as redevelopment occurs. This charge would be based on the development’s impact on the overall transportation system. Transportation SDCs are based on the land use type, the size of the development (number of dwelling units or number of acres), the number of trips per unit of development (derived from the Institute Transportation Engineers Manual), and the fee/trip rate. These funds may also be used for financing alternative modes projects. Creswell could create a SDC based on this transportation plan. The costs of setting up a system development charge can be covered in the charge itself.

Debt Financing
General Obligation Bonds: Bonds are sold by the municipal government to fund public infrastructure and other improvements, and are repaid with property tax revenue. Voters must approve general obligation bond sales.

Revenue Bonds: Bonds sold by the city and repaid with revenue from an enterprise fund which has a steady revenue stream such as a water or sewer fund. The bonds are typically sold to fund improvements in the system which is producing the revenue. They are a common means to fund large high cost capital improvements which have a long useful life.

User Fees
In general, the users pay based on their use of, or impact on, the system.
Local Gas Tax: The City or county could implement a local gas tax, in addition to the existing revenues from the state gas tax. Several cities and counties in Oregon have a local gas tax. Given the current anti-tax atmosphere, it may be difficult to get voter approval on a local gas tax.

Local Vehicle Registration Fee: Counties can implement a local vehicle registration fee. A portion of the County fee would be allocated to cities in Lane County. The fee would provide a stable and reasonable funding source, but is unlikely to receive local support.

Street Utility Fee: Similar to a water or sewer utility fee, a fee would be assessed in the city for use of streets. Implementing a street utility fee would require voter approval and political support would likely be low.

Special Assessments
Assessments pay for on-site or adjacent public improvements. The property owners who directly benefit from the improvement.

Local Improvement District: The property owners who will benefit from the improvements pay an assessment of the project cost. In Creswell, this approach is usually done for sidewalk improvements or street widening.

Agreement for Improvements: It does not always make sense for a land divider or property owner to install the required improvements (including streets and sidewalks) at the time of development. If that is the case, s/he executes and files with the City an agreement to pay for future improvements. Creswell keeps these agreements in files organized by street and will pull them at the time of a capital improvements project.

F. Private Developers

The majority of local streets and sidewalks are paid for at the time of development by the developer who includes the cost in the sale price of the homes or properties. This will also apply to bikeways, bicycle parking, and transit facilities. In this way, the benefiting users are paying for the cost of the system installation. The city then is responsible for maintaining improvements within the public right-of-way.
Appendices
Appendix A

TSP Inventory Database Methodology

Name

Name of a road for which there are one or more segments in the study area. Each record refers to attributes of a single segment, where a segment is a stretch of road or road right-of-way typically ending where intersected by another street or significant boundary or break-point (e.g., the UGB). Multiple segments have the same name, so a segment’s unique name is a combination of “Name” + “From” + “To”, such as: “6TH ST from A ST to B ST”. Where no name was known, the code "unknown" was entered.

From

The name of the street (or one of the streets) touching the West or North end of the segment. “From” and “To” are arbitrary for most non-grid streets. If the street does not continue beyond the from-point, a code of “START” was entered. Where no name was known, the code "unknown" was entered.

To

The name of the street (or one of the streets) touching the East or South end of the segment. “From” and “To” are arbitrary for most non-grid streets. If the street does not continue beyond the to-point, a code of “END” was entered. Where no name was known, the code "unknown" was entered.

Length

The length of the roadway segment in feet -- derived from ArcInfo calculations, ArcView estimates, or field measurements. Populated (i.e., 456.783) decimal places indicate the source was ArcInfo; whole numbers indicate ArcView estimates or field measurements.

Functional Class

Arterial - Arterials are intended to serve as a primary route for travel within and between community areas. Access to an arterial is normally from the collector or local road system rather than to serve property directly. Individual access should be managed on arterials to minimize degradation to capacity and traffic safety. Sidewalks and bike lanes are normally provided on an arterial.

Major Collector - A major collector is intended to serve traffic from local streets and minor collectors to the arterial system. Individual accesses are allowed but minimized to protect system capacity and traffic safety. Sidewalks and bike lanes are normally required on a major collector.

Minor Collector - A minor collector is intended to provide access to abutting properties and to serve local access needs of neighborhoods, including limited through traffic. New development that generates a significant volume of traffic should be discouraged from locating on minor collectors that serve residential areas. Sidewalks are normally required on minor collectors and bike lanes are usually only required in accordance with the proposed bicycle plan.
Local Street - A local street is intended to provide direct property access and is not intended to serve through traffic. Sidewalks are normally required as per the proposed pedestrian plan and Creswell’s Subdivision Ordinance.

No. of Lanes

Presumed to be “2” in most cases, and presumably two-way unless otherwise noted. Odd numbers of lanes indicate the presence of an additional center turning-refuge lane. Gravel roads were given a number of lanes of “1”. Unused rights-of-way were given a number of lanes of “0”.

Roadway Width

The width of the paved portion of the segment (the “roadway”) in feet. Variation was not identified below the level of the segment, so variation in width has been averaged to the nearest whole number.

Roadway Condition

The condition of the paved portion or “roadway” of the segment. The basic categories are based on ODOT standards. Special codes were used to identify other segment conditions. Varying conditions were not identified below the segment level. The following is a key to all codes used in this field (the POOR, FAIR and GOOD categories were adapted from ODOT definitions):

<table>
<thead>
<tr>
<th>Code</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>POOR</td>
<td>Paved roadway. Areas of instability, marked evidence of structural</td>
</tr>
<tr>
<td></td>
<td>deficiency, large crack patterns (alligating), heavy and numerous</td>
</tr>
<tr>
<td></td>
<td>patches, and/or deformation very noticeable. Riding quality ranges from</td>
</tr>
<tr>
<td></td>
<td>acceptable to poor.</td>
</tr>
<tr>
<td>FAIR</td>
<td>Paved roadway. Generally stable, with minor areas of structural weakness</td>
</tr>
<tr>
<td></td>
<td>evident. Cracking easy to detect, patched but not excessively.</td>
</tr>
<tr>
<td></td>
<td>Deformation is more pronounced and easily noticed. Good riding quality.</td>
</tr>
<tr>
<td>GOOD</td>
<td>Paved roadway. Stable, may have minor cracking, generally hairline and</td>
</tr>
<tr>
<td></td>
<td>hard to detect. Minor patching and some minor deformation may be</td>
</tr>
<tr>
<td></td>
<td>evident. Very good riding surface.</td>
</tr>
<tr>
<td>GRAVEL</td>
<td>Segment has gravel surface instead of paved roadway.</td>
</tr>
<tr>
<td>UNBUILT</td>
<td>Segment roadway is inaccessible, unsurfaced (pavement or gravel), or</td>
</tr>
<tr>
<td></td>
<td>altogether absent, but right-of-way is not vacated.</td>
</tr>
<tr>
<td>REMOVED</td>
<td>Segment of paved roadway was removed, but right-of-way is not vacated.</td>
</tr>
<tr>
<td>OUTSIDE UGB</td>
<td>Segment is outside the study area, but has been included for mapping</td>
</tr>
<tr>
<td></td>
<td>purposes.</td>
</tr>
</tbody>
</table>

Jurisdiction

The ownership of the right-of-way (and roadway) for the segment. Maintenance, and other responsibilities may fall upon other jurisdictions than the owner (e.g., federal highways are maintained by ODOT) as per intergovernmental agreement. The “CITY/COUNTY” code refers to those roads which were identified, in intergovernmental agreements between Lane County and the relevant cities, as being part of the “Regional Road Network” (RRN), and which have been also been surrendered to the jurisdiction of the city. Originally, these roads were usually county roads within the city limits, but now
are owned and maintained by the city, with maintenance funds from the county, according to the intergovernmental agreements. The “COUNTY/RRN” code refers to those roads which were identified as being part of the “Regional Road Network” (RRN), but which, despite being inside the city limits, do not fall under city jurisdiction and no funds are transferred to the city for their maintenance.

**Sidewalks**

Presence of sidewalks along the segment. Codes used are as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>FULL</td>
<td>Full, unobstructed, unbroken sidewalks present on both sides of the roadway.</td>
</tr>
<tr>
<td>PARTIAL</td>
<td>Sidewalks present, but partial (obstructed or broken on either side and/or missing on one side).</td>
</tr>
<tr>
<td>NONE</td>
<td>No sidewalks present along existing, adequate roadway.</td>
</tr>
<tr>
<td>NA</td>
<td>No sidewalks present due to lack of adequate roadway (road condition is gravel, unbuilt or removed).</td>
</tr>
</tbody>
</table>

Sidewalk condition data was collected on field maps, but has not been entered on this table.

**Bike Lanes**

Presence of bike lanes along the segment. Codes used are as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Full width, unobstructed and unbroken, paved bike lanes on both sides of the segment, either striped lanes or paved shoulder.</td>
</tr>
<tr>
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<td>Bike lanes present, but partial (obstructed or broken on either side and/or missing on one side).</td>
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<tr>
<td>NONE</td>
<td>No sidewalks present along existing, adequate roadway.</td>
</tr>
<tr>
<td>NA</td>
<td>No sidewalks present due to lack of adequate roadway (road condition is gravel, unbuilt or removed).</td>
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</table>

**Right of Way (width)**

Width, in feet, of the right-of-way associated with a particular road segment. Variation was captured by a range, such as 40’-60’.

**Truck Routes** - This field indicates the presence or absence of a designated truck route. A truck route is signed as the primary access for trucks to industrial areas in Creswell. Future improvements on streets identified as truck routes should take into consideration the heavy volume of trucks, special needs for traffic control, road geometry, access during construction, and possible traffic/pedestrian/bicycle conflicts.
<table>
<thead>
<tr>
<th>Road Segment Name</th>
<th>North or West From</th>
<th>South or East to</th>
<th>Length</th>
<th>Functional Class</th>
<th># of Lanes</th>
<th>Road Width</th>
<th>Roadway Condition</th>
<th>Jurisdiction</th>
<th>Sidewalks</th>
<th>Bike Lanes</th>
<th># of Lanes</th>
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<td>Road Width</td>
<td>Roadway Condition</td>
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Appendix C

Estimated (1996) Creswell UGB Emp by Transportation Analysis Zones and Trip Rate Sectors

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<td>0</td>
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<td>16</td>
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<td>0</td>
<td>101</td>
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<td>0</td>
<td>33</td>
<td>123</td>
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<td>0</td>
<td>4</td>
<td>18</td>
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<td>Education</td>
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<td>0</td>
<td>0</td>
<td>106</td>
<td>0</td>
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<td>19</td>
<td>11</td>
<td>42</td>
<td>0</td>
<td>2</td>
<td>18</td>
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<tr>
<td>Total</td>
<td>176</td>
<td>98</td>
<td>75</td>
<td>387</td>
<td>124</td>
<td>0</td>
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<td>88</td>
<td>5</td>
<td>21</td>
<td>179</td>
<td></td>
</tr>
</tbody>
</table>

Allocation Process

1. Updated land use and inventoried vacant land
2. Assumed future employment mix would be the same as existing.
3. Subtracted existing employment from projected employment to get employment growth by industry (existing employment is actually 1994 emp. file, it is estimated to be the same in 1996).
4. Determined type of employment (development) allowed on commercial and industrial land
5. Allocated employment according to the amount of vacant land available
*Each vacant acre of industrial land received an equal amount of industrial employment.
*Because TAZ 5 and 6 are east of I-5 and zoned Resort Commercial, these TAZs were removed from the commercial land allocation. These TAZs did not receive any new employment.

f:\trans projects\small cities\creswell tsp\draft plan\appendices\app c employ dwellings.xls\main
### Appendix C

**Existing (1996) Creswell UGB Dwelling Units by Transportation Analysis Zones and Structure Type**

<table>
<thead>
<tr>
<th>Structure Type</th>
<th>TAZ 1</th>
<th>TAZ 2</th>
<th>TAZ 3</th>
<th>TAZ 4</th>
<th>TAZ 5</th>
<th>TAZ 6</th>
<th>TAZ 7</th>
<th>TAZ 8</th>
<th>TAZ 9</th>
<th>TAZ 10</th>
<th>TAZ 11</th>
<th>TAZ 12</th>
<th>TAZ 13</th>
<th>TAZ 14</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Family and Man.</td>
<td>206</td>
<td>129</td>
<td>9</td>
<td>24</td>
<td>15</td>
<td>2</td>
<td>19</td>
<td>3</td>
<td>107</td>
<td>169</td>
<td>50</td>
<td>39</td>
<td>30</td>
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<td>802</td>
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<tr>
<td>Duplex</td>
<td>8</td>
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<td>0</td>
<td>12</td>
<td>22</td>
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<td>7</td>
<td>4</td>
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<td>58</td>
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<td>Multi-Family</td>
<td>24</td>
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<td>0</td>
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<td>34</td>
<td>29</td>
<td>2</td>
<td>2</td>
<td></td>
<td>181</td>
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<td>Mobile Home (Park)</td>
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<td>30</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>170</td>
<td></td>
<td></td>
<td>200</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td>238</td>
<td>134</td>
<td>39</td>
<td>24</td>
<td>15</td>
<td>2</td>
<td>19</td>
<td>5</td>
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<td>225</td>
<td>79</td>
<td>48</td>
<td>206</td>
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**Vacant Land by Transportation Analysis Zone**

<table>
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<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
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<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>TOTAL</th>
</tr>
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<tbody>
<tr>
<td>Total Vacant Res Acres</td>
<td>42</td>
<td>73</td>
<td>17</td>
<td>36</td>
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<td>24</td>
<td>32</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td></td>
<td>251</td>
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<tr>
<td>Est. % within City Limits</td>
<td>40%</td>
<td>50%</td>
<td>30%</td>
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<td>0%</td>
<td>0%</td>
<td>50%</td>
<td>60%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acres within City Limits</td>
<td>17</td>
<td>37</td>
<td>5</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>12</td>
<td>19</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<td>90</td>
<td></td>
</tr>
<tr>
<td>% of total vacant land in TAZ</td>
<td>19%</td>
<td>41%</td>
<td>6%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>13%</td>
<td>21%</td>
<td>0%</td>
<td>100%</td>
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</tbody>
</table>

**Allocated Dwelling Units (1996 - 2015) by Transportation Analysis Zones and Structure Type**

<table>
<thead>
<tr>
<th>Structure Type</th>
<th>TAZ 1</th>
<th>TAZ 2</th>
<th>TAZ 3</th>
<th>TAZ 4</th>
<th>TAZ 5</th>
<th>TAZ 6</th>
<th>TAZ 7</th>
<th>TAZ 8</th>
<th>TAZ 9</th>
<th>TAZ 10</th>
<th>TAZ 11</th>
<th>TAZ 12</th>
<th>TAZ 13</th>
<th>TAZ 14</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Family and Man. Home</td>
<td>67</td>
<td>192</td>
<td>27</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>63</td>
<td>99</td>
<td>5</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>4</td>
<td>474</td>
</tr>
<tr>
<td>Duplex</td>
<td>8</td>
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<td>6</td>
<td>10</td>
<td>0</td>
<td>0</td>
<td>45</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi-Family</td>
<td>24</td>
<td>52</td>
<td>7</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<td>27</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>12</td>
<td>128</td>
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</tr>
<tr>
<td>Man. Home in Park</td>
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<td>70</td>
<td>10</td>
<td>0</td>
<td>0</td>
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<td>0</td>
<td>170</td>
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<td><strong>TOTAL</strong></td>
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<td>332</td>
<td>46</td>
<td>0</td>
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<td>0</td>
<td>0</td>
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<td>168</td>
<td>15</td>
<td>1</td>
<td>0</td>
<td>0</td>
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</table>

**Total Projected (2015) Dwelling Units by Transportation Analysis Zones and Structure Type**

<table>
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<tr>
<th>Structure Type</th>
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<th>TAZ 3</th>
<th>TAZ 4</th>
<th>TAZ 5</th>
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<th>TAZ 7</th>
<th>TAZ 8</th>
<th>TAZ 9</th>
<th>TAZ 10</th>
<th>TAZ 11</th>
<th>TAZ 12</th>
<th>TAZ 13</th>
<th>TAZ 14</th>
<th>TOTAL</th>
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<tbody>
<tr>
<td>Single Family and Man. Home</td>
<td>293</td>
<td>321</td>
<td>36</td>
<td>24</td>
<td>15</td>
<td>2</td>
<td>19</td>
<td>3</td>
<td>170</td>
<td>268</td>
<td>55</td>
<td>40</td>
<td>30</td>
<td></td>
<td>1276</td>
</tr>
<tr>
<td>Duplex</td>
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<td>23</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>12</td>
<td>28</td>
<td>10</td>
<td>7</td>
<td>4</td>
<td>103</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi-Family</td>
<td>48</td>
<td>52</td>
<td>7</td>
<td>0</td>
<td>0</td>
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<td>105</td>
<td>61</td>
<td>29</td>
<td>2</td>
<td>2</td>
<td>309</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Man. Home in Park</td>
<td>32</td>
<td>70</td>
<td>40</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<td>0</td>
<td>170</td>
<td></td>
<td>370</td>
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<tr>
<td><strong>TOTAL</strong></td>
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<td>466</td>
<td>85</td>
<td>24</td>
<td>15</td>
<td>2</td>
<td>19</td>
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<td>310</td>
<td>393</td>
<td>94</td>
<td>49</td>
<td>206</td>
<td></td>
<td>2058</td>
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</table>

**Allocation Process**

1. Updated land use and inventoried vacant land
2. Projected dwelling units.
3. Allocated single-family units to TAZs 12 & 13 (at 5 units per acre).
4. Allocated all other dwelling units according to the amount of vacant land estimated to be within the city limits.

Each acre of vacant residential land outside of TAZs 12 & 13 received an equal amount of residential development.
Appendix D
Citizen Involvement Plan

Goal: To develop a broad-based citizen involvement plan that insures opportunities for the citizens of Creswell to be involved in all phases of the Creswell Transportation System Plan.

Public involvement will occur at key points in the project. Public involvement techniques will strive to discover the transportation needs of the community, inform the public about elements of the plan, and to solicit feedback on draft policies and implementation ordinances.

Citizen Involvement Techniques

1. Public Open Houses
   Public workshops will be held during key project milestones:
   - System Inventories and Issue Identification
   - Evaluating Alternatives
   - Draft Plan/Ordinance Development

   Notice of public workshops will be advertised in the Creswell Chronicle and posted at key community locations.

2. Presentations to Community Groups
   Presentations will be made to key community and service groups including:
   - Chamber of Commerce
   - Kiwanis

3. Communication with the Media
   The Creswell Chronicle and other local media will be updated regularly on the project’s status.

4. Community Survey
   A survey of the community will be conducted to gather information on issue identification, community preferences, and evaluation of transportation system alternatives. Survey forms will be made available to local community groups and at City Hall.

5. Maintain Interested Parties Mailing List
   Throughout the planning process a mailing list of interested parties will be maintained. This mailing list will be used to notify interested parties of key events and CAC meetings.

6. Updates to City Council and Planning Commission
   Periodically throughout the project, members of the City Council and Planning Commission on the CAC will give periodic updates at City Council and Planning Commission meetings.
Appendix E

Creswell Transportation System Plan - Traffic Modeling Process

I. Describe Existing Traffic Patterns

A - Simplify study area
Divide Creswell into transportation analysis zones

B - Estimate internal trips
Determine housing and employment levels for each zone
Multiply households and employees by their respective trip rates

C - Estimate external trips
Review survey and count data to determine how many trips occur between Creswell, Lane County and the Metro area

D - Distribute Trips
At this point we know the total number of trips that include Creswell. For each zone we know how many trips arrive and depart, but for trips arriving, we don’t know their origin - for trips departing we don’t know their destination. We could calculate this manually but it would be slow and involve many iterations. So, we use a computer program to distribute trips in such a way that each is matched with its most likely arrival or departure zone.

Enter trip information into the transportation modeling software, Emme\2

E - Find the shortest path for each trip
Based on trip information, Emme\2 assigns each trip to the shortest route that connects the trip’s origin and destination

F - Compare predicted volumes with actual traffic counts
Make adjustments where necessary so Emme\2 traffic volume and real-world traffic volumes are close to equal.

II - Estimate Future Traffic Patterns
With traffic patterns in the model closely reflecting real world conditions we then repeat steps B through E, using estimates of housing and employment for the year 2015. The traffic volume that results from this process can be used to help identify future problem areas in the road system.
Creswell Estimated PM Peak Hour Traffic Volume - 1994

EMME/2 PROJECT: Creswell TSP
SCENARIO 2: 1994 Creswell PM Peak Hour

WINDOW: 253/156 326
253 57/157 428

97-04-24 13:15
MODULE: 6.12
OREGONDT...jva
Appendix F
Capital Project Cost Assumptions

<table>
<thead>
<tr>
<th>FACILITY TYPE</th>
<th>UNIT</th>
<th>CONSTRUCTION COST ($)</th>
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</thead>
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<tr>
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<td>per linear foot</td>
<td>$7.00</td>
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<tr>
<td>Sidewalk -5 feet wide</td>
<td>per linear foot</td>
<td>$9.00</td>
</tr>
<tr>
<td>Curb, gutter and sidewalk</td>
<td>per linear foot</td>
<td>$15.00</td>
</tr>
<tr>
<td>Curb, gutter and sidewalks 2 sides</td>
<td>per linear foot</td>
<td>$29.00</td>
</tr>
<tr>
<td>Bike lane striping and sidewalks</td>
<td>per linear foot</td>
<td>$16.00</td>
</tr>
<tr>
<td>28 foot street paving (3 inch A.C.) with exc. and rock</td>
<td>per linear foot</td>
<td>$28.00</td>
</tr>
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<td>30 foot street paving (3 inch A.C) with exc. and rock</td>
<td>per linear foot</td>
<td>$30.00</td>
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<tr>
<td>42 foot street paving and bike striping, sidewalks</td>
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<td>44 foot street paving (3 inch A.C.) with exc. and rock</td>
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<tr>
<td>46 foot street paving (3 inch A.C.) with exc. and rock</td>
<td>per linear foot</td>
<td>$46.00</td>
</tr>
<tr>
<td>46 foot street paving and bike striping, sidewalks</td>
<td>per linear foot</td>
<td>$85.00</td>
</tr>
<tr>
<td>Multi-use path 10-ft wide, 3-inch asphalt</td>
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<td>$12.00</td>
</tr>
<tr>
<td>Multi-use path 10-ft wide, 4-inch concrete</td>
<td>per linear foot</td>
<td>$14.00</td>
</tr>
<tr>
<td>Shoulder bike lane, 4 feet wide to highway standards</td>
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</tr>
<tr>
<td>Shoulder bike lane and striped bike lanes (both sides)</td>
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<td>$14.00</td>
</tr>
<tr>
<td>Bicycle Lane Striping</td>
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<td>Bicycle Lane Striping both sides</td>
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</tr>
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<td>Bicycle stencil</td>
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<tr>
<td>Cost Contingency</td>
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</tr>
</tbody>
</table>

* A 40 percent contingency cost will be added to each subtotal cost to account for engineering fees, inflation, and unforeseen circumstances. Estimates do not include right-of-way acquisition costs.
Appendix G
Glossary of Terms

Access Control (Control of Access, or Controlled Access) - The regulated limitation of access. Achieved through the regulation of public access rights to and from properties abutting highway facilities. These regulations are categorized as Full Control of Access, Partial Control of Access, Access Management, and Driveway and Approach regulations.

- **Full Control of Access:** Preference is given to through traffic by providing access connections only with selected public roads and by prohibiting crossings at-grade and direct private driveway connections.
- **Partial Control of Access:** Preference is given to through traffic to a degree that, in addition to access connections with selected public roads, there may be some crossing at-grade and some private driveway connections. Full or Partial Control of Access is generally accomplished by legally obtaining access from the abutting property owners (usually at the time of purchase of right-of-way) or by the use of frontage roads.
- **Access Management:** Involves providing (or managing) access to land development while simultaneously preserving the flow of traffic on the surrounding road system in terms of safety, capacity, and speed. Access Management views the highway and its surrounding activities as part of a single “system.” Individual parts of the “system” include the activity center and its circulation systems, access to and from the center, the availability of public transportation, and the roads serving the center. All parts are important and interact with each other. The goal is to coordinate the planning and design of each center to preserve the capacity of the overall system, and to allow efficient access to and from the activities.
- **Driveway and Approach Regulations:** These may be applied even though no control of access is obtained. Each abutting property is permitted access to the street or highway; however, the location, number, and geometrics of the access points may be governed by the regulations.

The principal advantages of control of access are the preservation or upgrading of service and safety of the roadway facility/facilities.

Accessibility - The opportunity to easily reach a given destination within a certain time frame without being impeded by physical or economic barriers.

Alternative Modes of Transportation - Forms of transportation that provide transportation alternatives to the use of single occupant automobiles. Examples include: rail, transit, carpoolers, bicycles and walking.

Alternative Work Hours - Work policies such as flex-time and staggered work hours and compressed work weeks that allow employees to meet transit, carpool, or vanpool schedules or to avoid commuting during peak hours traffic periods.

Americans with Disabilities Act (ADA) - Federal civil rights legislation for persons with disabilities, signed into law in 1990, that prohibits discrimination specifically in the areas of
employment, public accommodation, public services, telecommunications and transportation. Transportation requirements include the provision of "comparable paratransit service" that is equivalent to general public fixed route service for persons who are unable to use regular bus service due to a disability.

**Arterial** - Arterials are intended to serve as a primary route for travel within and between community areas. Access to an arterial is normally from the collector or local road system rather than to serve property directly. Individual access should be managed on arterials to minimize degradation to capacity and traffic safety. Sidewalks and bike lanes are normally provided on an arterial.

**Average Daily Traffic (ADT)** - The average number of vehicles passing a specified point in a typical 24-hour time frame. A measure of traffic volume.

**Balanced Transportation System** - A system that provides a range of transportation options and takes advantage of the inherent efficiencies of each mode.

**Capacity** - The maximum rate of flow at which persons or vehicles can be reasonably expected to traverse a point or uniform segment of a lane or roadway during a specified time period under prevailing roadway, traffic, and control conditions; usually expressed as vehicles per hour or persons per hour.

**Capital Improvement Program (CIP)** - A plan for future capital infrastructure and program expenditures which identifies each capital project, its anticipated start and completion, and allocates existing funds and known revenue sources for a given period of time.

**Comprehensive Plan** - An official document adopted by a local government in which are set forth the general, long-range policies on how the community's future development should occur. A local comprehensive plan must be in compliance with state land use planning goals.

**Congestion** - A condition under which the number of vehicles using a facility is great enough to cause reduced speeds and increased travel times. Congestion is measured as the percent of capacity that is being used.

- **Low Congestion** = less than 71% of capacity
- **Moderate Congestion** = between 71% and 86% of capacity
- **High Congestion** = greater than 86% of capacity

**Connectivity** - A term used to describe the qualities of easy access and appropriate connections between all parts of the transportation system, providing for ease of transfer between different modes of travel, such as rail to bus or bicycle to walking.

**Cul-de-sac** - A local street, usually only a few hundred feet in length and closed at one end, designed to serve the interior of a subdivision or large tract of land.
Design Standards - Those conditions that should be met when a new road is constructed, or when a deficient section is improved, including all relevant geometric and structural features required to provide some desired level of service over the life of the project - generally 20 years beyond project implementation.

Density - The average number of families, persons, or housing units per unit of land; usually density is expressed "per acre."

Development Patterns - The overall development characteristics of an area, such as the built form of a city, town, district or neighborhood. For example, the development pattern in a downtown business district has different qualities and characteristics in terms of land use, architecture, street pattern and density than does an out-lying residential neighborhood.

Discontinuous Street - A street that is disconnected from other parts of the same street by land features, buildings, cross streets, etc. Cul-de-sacs or dead end streets are also discontinuous streets.

Environmental Impact Statement (EIS) - Document that studies all likely impacts that will result from major federally assisted programs. Impacts include those on the natural environment, as well as impacts on the economy and society, and those on the built environment of historical and aesthetic significance.

Environmental Protection Agency - The federal agency charged with protecting the environment. EPA is the source agency of air quality control regulations affecting transportation.

Express Bus Service - Bus services with limited stops, primarily at transfer points and activity centers, and higher average speeds. Often provided only during peak periods, and using freeways and HOV facilities where available.

Floor Area Ratio (FAR) - A ratio comparing the amount of floor space to the total land area of a development site. Specified ratios are often required for commercial and industrial development projects, and are used in urban zoning ordinances to regulate the dimensions of multistory buildings.

Frequency of Service - The number of transit vehicles in a given time period passing by any given point on a route.

Goal 12 - One of 19 statewide planning standards that makeup the state land use planning program. Goal 12 relates to transportation, and reads: "To provide and encourage a safe, convenient and economic transportation system." See Transportation Planning Rule.

Goals - A desired result or purpose. In planning, a goal is a broad statement of philosophy that describes the hopes of the people of the community for the future of the community. A goal may never be completely attainable but it is used as a point to strive for.
**Group Bus Pass Programs** - Programs designed for large groups or organizations to allow bulk purchases of transit passes for all members of the group at a significant cost savings.

**Guaranteed Ride Home** - Program to guarantee that an alternative modes employee will be provided a ride home in an emergency.

**Household Characteristics** - Used in the statistical study of human populations. Includes a variety of household attributes, such as number of family members, age, income, number of vehicles, and method of travel to work. The U. S. Census gathers household characteristics of the U.S. population.

**Impervious Surface** - Surfaces which prohibit water from soaking into the ground. Concrete, asphalt, and rooftops are the most common urban impervious surfaces.

**Infill Development** - Development consisting of either (1) construction on one or more lots in an area which is mostly developed, or (2) new construction between two existing structures.

**Infrastructure** - The system of essential public services, utilities, and public and community facilities, e.g. water, sewerage, power, roads, schools, health facilities, necessary for the functioning of urban development.

**In-migration** - The number of persons moving into a geographic area within a given period of time. A component of an area’s total population growth.

**Interchange** - A grade separated system of interconnecting roadways that provides for the movement of traffic between two or more roadways or highways on different levels.

**Intermodal** - Connecting individual modes of transportation and/or accommodating transfers between such modes.

**Intermodal Surface Transportation Efficiency Act (ISTEA) of 1991** - The 1991 federal transportation funding legislation that provides for a new direction in transportation planning, with emphasis on protecting the environment and reducing congestion, relying on the most efficient transportation mode and providing increased flexibility to state and local governments on the use of federal funds.

**Intersection** - The general area where two or more highways join or cross, including the roadway and roadside facilities for traffic movements within it.

**Interstate Highway System** - That system of highways which connects the principal metropolitan areas, cities, and industrial centers of the United States, as well as routes of continental importance in Canada and Mexico.
Land Conservation and Development Commission (LCDC) - A seventeen member commission established by Senate Bill 100 in 1973 to develop and administer Oregon’s statewide planning goals.

Land Use - The way specific portions of land or the structures on them are used; for example commercial, residential, retail, industrial, and open space.

Land Use Decision - A final decision or determination made by a local government or special district that concerns the adoption, amendment or application of: the goals, a comprehensive plan provision, a land use regulation, or a new land use regulation.

Land Use Board of Appeals (LUBA) - A board established by the state legislature in 1979 to hear and decide on contested land-use cases.

Level of Service - A measure of how well the transportation facility (street, intersection, sidewalk, bikeway, etc.) provides service. More congestion means a lower level of service. Congestion is measured as the percent of capacity that is being used.
- A - Free flow conditions: 32% of capacity
- B - Reasonably free flow conditions: 51% of capacity
- C - Operation stable: 71% of capacity
- D - Lower speed range of stable flow: 86% of capacity
- E - Unstable flow: 100% of capacity
- F - Forced flow, stop and go operation: +100% of capacity

Local Street - Comprises all streets that are not collectors or arterials. It serves primarily to provide direct access to abutting land and access to the higher order systems. It offers the lowest level of mobility and usually contains no bus routes.

Local Street System - Comprises all facilities not in one of the higher order systems.
- Permits direct access to abutting properties and connections to the higher order systems.
- It offers the lowest level of mobility and usually contains no bus routes.

Major Collector - A major collector is intended to serve traffic from local streets and minor collectors to the arterial system. Individual accesses are allowed but minimized to protect system capacity and traffic safety. Sidewalks and bike lanes are normally required on a major collector.

Minor Collector - A minor collector is intended to provide access to abutting properties and to serve local access needs of neighborhoods, including limited through traffic. New development that generates a significant volume of traffic should be discouraged from locating on minor collectors that serve residential areas. Sidewalks are normally required on minor collectors and bike lanes are usually only required in accordance with the proposed bicycle plan.

National Highway System (NHS): A classification of roads authorized by ISTEA comprised of Interstate Highways and roads designated as important for interstate travel, national defense,
intermodal connections, and international commerce. Federal funds are designated for projects on the NHS system. Highway 126 is part of the NHS.

**Mixed Use** - A development having a mixture of uses which may include office space, commercial activity, residential uses, parks and public places, and supporting public facilities and services. The development is designed so that the need to travel from one activity to another is minimized.

**Mobility** - Being able to move easily from place to place.

**Modal Split (or Mode Share)** - The proportion of total persons using a particular mode of travel.

**Mode** - A method of travel, such as automobile, transit, pedestrian, bicycle, or paratransit.

**Multimodal** - Involving several types of transportation, such as a trip using both rail and bus.

**Non-Point Sources** - Causes of water pollution that are not associated with point sources. Non-point sources include agricultural fertilizer or pesticide runoff, and sediment runoff from construction. Non-point sources of pollution may enter a sewer system and become a point source, such as urban runoff.

**Oregon Transportation Plan (OTP)** - The comprehensive, long-range plan for a multimodal transportation system for the state which encompasses economic efficiency, orderly economic development, safety and environmental quality.

**Paratransit** - Alternative known as "special or specialized" transportation which often includes flexibly-scheduled and routed transportation services that use low capacity vehicles, such as vans, to operate within normal urban transit corridors or rural areas. Services usually cater to the needs of persons whom standard mass transit services would serve with difficulty, or not at all. Common patrons are the elderly and persons with disabilities.

**Park-and-ride** - An access mode to transit and other HOV modes in which patrons drive private automobiles or ride bicycles to a transit station, stop, or carpool/vanpool waiting area and park the vehicle in the area provided for that purpose (park-and-ride lots, park-and-pool lots, commuter parking lots, bicycle rack or locker).

**Pedestrian Pathway** - Pathway designed for pedestrian travel.

**Policy** - Statement adopted as part of the Plan to provide a specific course of action moving the community towards attainment of its goals. Due to budget constraints and other activities, all policies cannot be implemented at the same time. Generally, those with metropolitan-wide implications should receive priority consideration.
Retrofit - To change or upgrade an existing structure or system to meet new needs or requirements. For example, structurally strengthening an existing bridge, or upgrading a home’s electrical and plumbing system to accommodate a solar water heater.

Ridesharing - Sharing of one vehicle by two or more commuters. While the concept of ridesharing applies primarily to carpools and vanpools, it is sometimes applied to transit as well. Commuters are matched with others having similar commute trip origins, destinations, and schedules.

Right-of-Way - Public space legally established for the use of pedestrians, vehicles or utilities. Right-of-way typically includes the street, sidewalk and buffer strip areas.

Sight Distance - The length of roadway ahead visible to the driver. The minimum sight distance available on a roadway should be sufficiently long enough to enable a vehicle traveling at or near the design speed to stop before reaching a stationary object in its path.

Site Design - The aspects of overall design relating to the form and function of a specific site. Site design deals with the configuration of elements on a particular site, usually for a specific project or purpose. These would include grading plans, building siting, and landscape planting plans.

Statewide Transportation Improvement Plan (STIP) - The STIP outlines the statewide construction project schedule for the Oregon Department of Transportation (ODOT) and Metropolitan Planning Organizations. The STIP is not a planning document. It is a project prioritization and scheduling document.

Stormwater (Urban Runoff) - Rain which travels over land surfaces and drains into the street gutters or storm sewer pipes and is discharged into a ditch, channel, stream or river. As stormwater travels over the land, it accumulates pollutants from roofs, yards, driveways, streets and industrial and commercial land uses.

Strip Commercial Development - A linear pattern of commercial development along a major street or highway, usually configured for the convenience of automobile travel.

Subdivision Street Pattern - Typically refers to a limited access, usually curvilinear street pattern, with a relatively high number of cul-de-sacs, designed to serve a low-density residential subdivision development. Other than at limited access points, this type of street pattern usually does not connect with other adjacent subdivision developments or to existing street patterns.

Telecommuting - A method of either working at home or at an off-site work station with computer facilities that link to the work site.

Traffic Calming - An integrated traffic planning approach which seeks to maximize mobility while creating a more livable city by reducing the undesirable side effects of that mobility.
Traffic Flow Improvements - Projects that are designed to enhance or improve the movement of vehicles on existing facilities such as freeways or streets. Some examples include ramp metering and signal timing improvements.

Transit Amenities - Items that support buses and bus riders. They include items such as bus stops, bus pads, turn-arounds, shelters, and benches.

Transportation Corridor - Major or high volume routes for moving people, goods and services from one point to another. They may serve many transportation modes or be for a single mode such as an air corridor.

Transportation Demand Management (TDM) - "Demand-based" techniques which are designed to change travel behavior in order to improve performance of transportation facilities and to reduce the need for additional road capacity. Methods include the use of alternative modes, ride-sharing and vanpool programs and trip-reduction ordinances.

Transportation Disadvantaged - Persons who must rely on public transit or paratransit services for most of their transportation. Typically refers to individuals without access to personal vehicle.

Transportation Needs - Estimates of the movement of people and goods consistent with an acknowledged comprehensive plan and the requirements of the Transportation Rule. Needs are typically based on projections of future travel demand resulting from a continuation of current trends as modified by policy objectives, including those expressed in Statewide Planning Goal 12 and the Transportation Rule, especially those for avoiding principal reliance on any one mode of transportation.


Transportation System Improvements (TSI) - TSI focuses on the supply side of transportation. TSI strategies include the full range of system improvements from improving the capacity and efficiency of the existing system to the construction or expansion of a new facility. TSI strategies are not limited to improvements for the automobile but also incorporates system improvements, expansion, and construction for transit, bicycles, and pedestrians.

Transportation System Management - Techniques for increasing the efficiency, safety, capacity or level of service of the existing transportation system without increasing its size. Examples include traffic signal improvements, traffic control devices including installing medians and parking removal, channelization, access management, ramp metering, and restriping for high occupancy vehicle (HOV) lanes.

Travel Mode - Means of transportation used, such as automobile, bus, bicycle, or by foot.
Trip Reduction Ordinances - Regulations which require developers or employers to participate in efforts to reduce automobile demand.

Urban Design - Urban design deals with the forms, functions, materials and activities of cities, and the use and management of urban settlements or their significant parts, such as neighborhoods or districts.

Urban Growth Boundary (UGB) - A site-specific line in the Comprehensive Plan that separates existing and future urban development from rural lands. Urban levels and densities of development, complete with urban levels of services, are planned within the UGB. A requirement of the state land use planning program.

Urban Facilities and Services - Those public facilities and services important to urban development. They are primarily planned for by local government and are provided within the current urban service area.

User Group - People with common characteristics in terms of how they use the transportation system. These characteristics include attitudes toward transportation choice, trip making patterns, and other shared travel behaviors. For example, retired persons, university students, and working parents can be considered different user groups.

Vanpool - Commuting in a seven to 15 passenger van, with driving undertaken by commuters. Some portion of the van's ownership and operating cost is usually paid for by the riders on a monthly basis. The van may be privately owned, employer-sponsored with the company owning and maintaining the vehicle, or it may be provided through a private company that leases vehicles. Fares may be charged, or the cost may be divided as agreed by the passengers.

Vehicle Capacity - The number of motor vehicles a highway or road is designed to carry over a given period of time at a given level-of-service.

Vehicle Miles of Travel (VMT) - The sum of distances traveled by all motor vehicles in a specified region. A requirement of the state Transportation Planning Rule is reducing vehicle miles traveled per capita.

Wetlands - Areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas.