



Park & Recreation Comprehensive Plan

Lake Oswego, Oregon

July 2002

Prepared for
The City of Lake Oswego

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Contents

Executive Summary		1
Chapter 1	Preface	15
Chapter 2	Community Setting	19
Chapter 3	Goals and Objectives	29
Chapter 4	Existing Public & Private facilities City of Lake Oswego Lake Oswego School District Other Public Agencies	39
Chapter 5	Opportunities Public Ownership Private Ownership Socially Significant Lands and Areas	59
Chapter 6	Land and Facility Demand Land Requirements Facility Requirements Future Growth Implications	87
Chapter 7	Development Plan Elements Conservancies - Environmental Conservancies - Historical Resource Parks Water Trails Horse Trails Walking/Hiking Trails Off-road Mountain Biking Trails On-road Bicycle Touring Routes Multipurpose trails Streetscapes Rail trails Playgrounds, Courts, and Fields Recreation and Community Centers Special Use Facilities Support Facilities	125
Chapter 8	Strategies Alternative roles Role Recommendations by Function Role Responsibility by Activity	307

Contents, continued

Chapter 9	Implementation	317
	2000-2006 financial strategies	
	Recommendations	
Appendix		
	Athletic Field Requirements Report	APP 2
	Proposed Level of Service (PLOS) by Site	APP 33
	Properties with park, recreation, and open space uses	APP 36
	Proposed Level of Service (PLOS) by Activity	APP 38
	Prototype Facility Development Costs	APP 42
	Prototype Trail Development Costs	APP 58
	Key to Interpreting Demand Charts	APP 67
Index		

Executive Summary

Executive Summary

Background

Preface

Quality of life is important to the citizens of Lake Oswego. Lake Oswego's parks, recreational and open space system is essential to maintaining the high quality of life that residents have come to expect. Over the years, public officials and citizens laid the groundwork for the extensive park and recreation system enjoyed today.

The 1999 City of Lake Oswego Quality of Life Task Force Final Report quantified the elements found in the city that make Lake Oswego unique and desirable. In addition to its "village" character, the report finds that the city's "parks, recreational facilities, recreational programs and open space each help to improve the entire community's quality of life by providing all residents the opportunity to exercise, relax and enjoy nature." Indicators outlined in this report that signify continued quality of life include ease of reserving fields, courts and tee times, as well as a high number of residents served by various programs.

In 1990, the *Comprehensive Parks and Recreation Master Plan* was adopted to guide park acquisition and development for the next ten years. The majority of the recommendations were fulfilled, including the development of new community parks, pathways and athletic fields, and in particular the purchase of land for future uses. However, the population of Lake Oswego has continued to grow and, over time, the development of parks, recreation, and open space facilities and services has not kept up with demand.

The choices that confront Lake Oswego at the present time are significant and could alter the character and quality of this vibrant system if not properly planned. Therefore, it is essential that a new Park and Recreation Master Plan be developed to provide options and a clear direction for parks and recreational development for the next 10 to 15 years.

The process for developing the Park & Recreation Comprehensive Plan began in earnest in the spring of 2000, concurrent with the planning for the Lake Oswego Open Space Plan. While this document looks primarily at inventory and forecasts demands for park and recreational facilities, the Open Space Plan focuses open space planning and management. The scope and approach of this Park & Recreation Comprehensive Plan were presented for review at joint meetings with the Parks and Recreation Advisory Board (PRAB), the Natural Resource Advisory Board (NRAB) and the Team Sports Advisory Committee (TSAC). Several in-progress review meetings were held with these groups.

Demographic Profile

Since the 1990 Parks Master Plan was completed, the city's population has increased more than 11%. Recent population projections by Portland State University estimate that an additional 4,962 persons will be living in Lake Oswego by the year 2015, bringing the population up to 39,262. This is an increase of 14% from the 34,300 persons counted in 2000. As the population expands the demand for park and recreation facilities is expected to grow, putting pressure on existing facilities and programs.

The population of the United States is aging, and this is true of the population of Lake Oswego. Yet Lake Oswego will continue to be populated by a full range of age groups, due to the significant amount of single-family housing in the city. This master plan assumes that families will continue to be attracted to these single-family neighborhoods. The findings and recommendations contained in this document reflect this assumption.

Master Plan Goals and Objectives

The 1994 Lake Oswego Comprehensive Plan outlines the following goal for Parks and Recreation: The City shall plan, acquire, develop and maintain a system of park, open space, and recreation facilities, both active and passive, that is attractive, safe, functional, available to all segments of the population and serves diverse current and long range community needs.

The City's goals for this master plan are to:

- Establish policies to guide development and improvements for the next 15 years. Provide proposals for upgrading the existing system and developing new facilities and services to meet current and future needs.
- Develop a high quality diversified recreation system for all ages and interest groups.
- Develop a high quality system of multi-purpose park trails and corridors that access significant environmental features, public facilities and developed local neighborhoods and business districts.

Forecasting Criteria

In generating recommendations for this Plan, national ratio standards and a Pacific Northwest participation model were applied to Lake Oswego's facility inventory to determine future needs. The most widely used park land ratios have been formulated by the National Recreation & Park Association (NRPA) using standards that have been developed over time by major park and recreation departments across the country. The participation model used was based on Pacific Northwest resident's recreational diaries that record their participation in specific recreational activities over a measurable period of time. Facility requirements were estimated for 21 park and recreation activities that were deemed to be of most interest to the City.

Development Recommendations

Existing Public and Private Resources

As noted in Chapter 3, pages 9–18, the City of Lake Oswego, Lake Oswego School District, State of Oregon and other public and private agencies have assembled 1,243.9 acres of land devoted exclusively to park, recreation and open space uses within or adjacent to the Lake Oswego urban growth boundary.

The City of Lake Oswego owns 530.7 acres of land available for public park, recreation and open space use. This includes 21 developed, undeveloped and natural areas, 1 outdoor swim park, an indoor tennis center, 5 outdoor tennis courts, an Adult Community Center, municipal golf course, and a water sports recreation center. Currently, there are 37.6 miles of trails. However, with the expected population increase to 39,262 resident in 2015, additional parks, open space and recreation facilities will be needed.

The Lake Oswego School District owns 13 properties with 55.5 acres of land utilized for recreational facilities within Lake Oswego urban growth boundaries. Recreational facilities include athletic fields, indoor gyms and classrooms, an outdoor swim park, 15 outdoor tennis courts, and 1 indoor swimming pool.

Other public agencies own 4 properties with 671 acres of land utilized for public facilities with recreational spaces and /or conserved for resource habitat and trail opportunities within or adjacent to Lake Oswego city limits.

	Acres Under Current Ownership
City of Lake Oswego	530.7
Lake Oswego School District	55.5
Other public agencies	671.0

Clearly, this inventory of facilities shows that these public agencies have amassed an impressive amount of acreage that includes every conceivable kind of parkland and recreational facility. The City of Lake Oswego, Lake Oswego School District, State of Oregon and other public agencies presently provides almost every kind of park and open space land. A significant portion of this inventory includes regional facilities serving populations that reside outside Lake Oswego. The Lake Oswego School District controls a significant percentage of the park and recreational inventory.

Land and Facility Demand

Chapter 5 focuses on demand forecasting for park and recreation land and facilities. The following discussion summarizes this information and provides recommendations for facility and renovation needs for parks, recreation facilities and trails required to meet the needs of the City of Lake Oswego for the near future of 6 to 10 years and the long term of 15 years.

A more detailed list of proposals, including locations and costs for proposed renovations and new development are described in detail in the Appendix on the “Proposed level of service additions-by site” chart.



Specific Recommendations

Total Park Land

The city, school district, and state provide a significant amount of land for park and recreation to satisfy most local and significant regional interests. However, the present allocation is not balanced between different types of park and recreation land requirements. Therefore, 16 acres of land should be acquired to meet needs in the near future.

Facility	Additional Land Required
Resource Activities	10 acres
Linear Trails	2 acres
Recreation Centers/Pool	2 acres
Special Use Facilities	2 acres
Total Additional Acreage	16 acres

Athletic fields

While the total supply of athletic field land is significant, the total acreage includes a significant inventory of non-regulation fields that cannot support competition games or practices. However, the City and other agencies have properties in their inventory that can be developed for additional fields. The current supply of land owned by the City, School District and other public and private agencies is sufficient to meet the growing needs of local residents to the year 2015.

Baseball and softball activities—particularly coed leagues—are growing. It is recommended over the next 6 to 10 years that four existing fields are upgraded

from practice or non-regulation fields to competition fields. In addition to these fields, 4 additional new fields will be needed in the next 15 years.

Interest in soccer is also growing. To meet this growing interest and anticipated population increases, one existing soccer field should be improved over the next 6 to 10 years and 7 new fields should be added over the next 15 years.

Facility	Additional Land Required	Facility Recommendation
Baseball/Softball:	0	Upgrade 4 existing fields to competition fields
	0	4 new fields
Soccer fields:	0	1 field upgraded
	0	7 new fields



Indoor Tennis Courts

A study conducted in 1999 by the Tennis Industry Association confirmed a 14% increase in the number of people playing tennis nationally since 1995, or a total of 14.1 million people. Of those, 68% play on public tennis courts.

The present supply of indoor public courts do no meet needs during rainy portions of the year, primarily late fall through spring. However, existing public and private indoor facilities do meet tennis needs for residents and school children during summer months. Additional indoor courts are needed to meet the current demand. Additional study will be required to determine the number and location of these courts.

Picnic tables and shelters

There are no existing national standards for picnic facilities. Yet regional models show that Lake Oswego does not now provide a sufficient number of tables with which to meet the requirements for residents and visitors during peak summer weekends and events. Nor are the current tables and shelters equally distributed to provide access to all neighborhoods and residential areas. Over the next 15 years, the City should add another 83 picnic tables and 11 shelters at park and trail sites. No new properties would need to be acquired in order to provide these new facilities.

Facility	Additional Land Required	Facility Recommendation
Picnic Tables	0	83
Picnic Shelters	0	11

Playgrounds

The regional participation model indicates that Lake Oswego is close to meeting standards of needed playgrounds. Yet the present supply of 12 playgrounds is not evenly geographically distributed to provide equal access to all neighborhood areas. Ten additional playgrounds are recommended for development within the next 6 to 10 years in the under-served parts of the city. These new playgrounds can fit onto existing City-owned parklands.

Facility	Additional Land Required	Facility Recommendation
Playground	0	10

Trails

Trails can be built along natural corridors, such as abandoned railroad lines, road right-of-ways, or natural area greenways. They also can link together schools, libraries, commercial areas and parks. The current supply of City and other agency acreage devoted to trails in Lake Oswego falls short of the NRPA standard. In conjunction with the following recommendations, the City should obtain the Portland Chip Plant property to allow for the extension of the Willamette River Trail to connect to Roehr Park.

Park trails – Popularity of walking as an activity is growing – especially for older adults in local park settings adjacent to residential neighborhoods. The present supply of park trails is not sufficient to provide access to the numerous natural areas, waterfront sites, historical landmarks and other interesting features. Another 12.8 miles should be added to the inventory in the next 6 to 10 years to increase access within city parks.

Walking/biking off-road trails – Also growing in popularity, particularly as a form of commuting to jobs, schools and other facilities, as well as for recreational enjoyment. Currently 25.3 miles of walking trail miles and 1 mile of biking trails. Future demand shows that another 22.3 miles of hiking trail and 9 miles of biking trail should be added to the inventory in the next 6 to 10 years.

Equestrian trails – There are currently no horseback riding trails within the City’s park system. The plan calls for 3.4 miles to be added over the next 15 years to include trails and linkages and access to rural area park sites.

Facility	Additional Land Required	Facility Recommendation
Park trails	0	12.8 additional miles
Walking trails	0	22.3 additional miles
Biking off-road trails	0	9.0 additional miles
Equestrian trails	0	3.4 additional miles
	2 acres	



Recreation Center/Swimming Pool

Recreation centers and pools are facilities providing swimming pools, physical conditioning, gymnasiums, arts and crafts, classrooms, meeting rooms, kitchen facilities and other spaces to support public recreation programs for all ages. The existing supply of these type of facilities would likely meet the recreation center objectives, were it not that part of this supply is provided by the Lake Oswego School District and is thus not available during school hours, weekends, or during the holidays. The need for a recreation center is evident, as outlined below. To accommodate such a facility, an additional 2 acres of land will be required.

Swimming Pool. The City of Lake Oswego does not currently provide indoor swimming facilities. The Lake Oswego High School swimming pool is available for some public activities, in addition to school and athletic activities. Assuming this pool has much needed renovations but remains the only principal facility available for public use, the present supply may not be sufficient to meet needs of future population.

The high school pool should be renovated in the next 6 to 10 years and possibly expanded to accommodate instruction and competition needs along with public access to Portland Community College's pool. In addition, another indoor facility should be constructed in the next 15 years to provide indoor, year-round swimming activities to the general public as well as for school and swim team needs.

Indoor Recreation Centers. The City of Lake Oswego does not provide indoor gymnasiums, physical conditioning or racquetball/handball court facilities. There are facilities available in school facilities and private athletic clubs. The existing facilities are not sufficient to provide public access to recreational facilities by current and projected future populations. A recommended 10,000 square feet of gymnasium and 4,000 square feet of physical conditioning space should be added in the next 6 to 10 years in a day-use facility. Since there is no existing site available for this new facility, 2 acres of land will need to be acquired.

Indoor Community Center. While there currently are arts and crafts, classroom facilities, and meeting space available to residents of Lake Oswego, the majority of this inventory is provided at schools that are not available for general public use during daytime, weekend, and holiday use. An estimated 4,000 square feet of arts and crafts, 200 square feet of small meeting space, 4,000 square feet of large assembly space and 800 square feet of catering area should be added in the next 6 to 10 years for use by the general population. These proposed new facilities will provide for future population increases and broaden the services available for community activities.

Facility	Additional Land Required	Facility Recommendation
Swimming Pool		Facility needed*

Indoor Recreation Center		Facility needed*
Indoor Community Center		Facility needed*
	2 acres	

**Swimming pool, recreation center, and community center could be provided as independent facilities or combined into one facility depending upon community interests.*

Funding and Implementation

Funding

Additional investment in Lake Oswego's park and recreation system is needed to meet current and future demand. Needed improvements and additional facilities are more specifically outlined on the fifteen-year Proposed Level-of-Service (PLOS) funding plan found in Chapter 9, page 189 and in the Appendix . These proposed improvements reflect the highest needs of Lake Oswego residents identified in the land and facility demand analysis. The PLOS does not prioritize improvements as determining community priorities were beyond the scope of this project. Further assessment is needed to determine which investments the community feels most necessary in order to meet the future parks and recreational needs of Lake Oswego.

Anticipated funding costs are outlined for all improvements. The total estimated cost for providing proposed facility improvements to meet the needs of the community to the year 2015 is estimated at over \$34 million.

Potential funding sources and strategies are identified in Chapter 9 for providing needed facilities. Sources include three methods the City has used in the past, including System Development Charges, General Obligation Bonds, and the Parks and Recreation Fund. Other potential funding mechanisms include public/private partnerships, charitable donations, and the establishment of a non-profit Parks Foundation.

Role Recommendation

Chapter 6 describes a variety of roles an agency might play in providing parks and recreation facilities and programs and recommends that the city of Lake Oswego assume a strategic role in providing facilities and programs in the futures. A strategic role includes providing park and recreation facilities and programs that no other agency can or is willing to provide; acting as a coordinator of local interests where facilities are provided by many other agencies; and acting as a facilitator where unique acquisition or development opportunities may occur that could be implemented or operated by other agencies.

Opportunities for Joint Use/Development

A strategic approach for expanding the current park and recreation system may include developing lands for parks and recreation use that are owned by other public agencies or and private organizations. Federal, state, county, utility, school, private homeowner associations and private commercial operators own a variety of strategically important sites throughout Lake Oswego. Some

opportunities for joint use/development are listed below. A more thorough analysis of these possible cooperative options is found in Chapter 4.

Portland Community College. Some portion of Portland Community College property, particularly the adjacent undeveloped lands, could be jointly developed to provide a campus/community park with picnic grounds, trails, fields, and/or courts.

Marylhurst College. Some portion of the Marylhurst College property, particularly the undeveloped lands adjacent to Highway 43 and along the riverfront, could be jointly developed to provide a campus/community park including athletic fields.

Lake Oswego Hunt Club. Trail systems could be jointly expanded between Iron Mountain and the Hunt Club to create multi-purpose trail opportunities for hikers, mountain bikers and horseback riders.





Chapter 1: Preface

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1.1 "Village in a Park"

Over the years, city residents have expressed a major interest in protecting and expanding the physical and leisure opportunities available to the community. The concept of a "Village in a Park" defines the inter-relatedness of park, recreation, and open space opportunities with the residential characteristics of the city and surrounding area most valued by residents.

The city accumulated a diverse and high quality system of park and recreation facilities over the years as a result of the "Village in a Park" vision. The existing park, recreation, and open space inventory provides a wide variety of activities including resource and historical conservancies, waterfront access sites and beaches, picnic facilities, trails of all kinds, playgrounds, recreational courts and fields, indoor recreation and community centers, and museums, amphitheaters, and environmental exhibits. These facilities were acquired and developed to provide recreational activities of interest to the widest variety of ages and skill levels - and to residents who progressively age into and out of different recreational interests and pursuits.

However, Lake Oswego has continued to change since the accomplishment of the last comprehensive park and recreation plan in 1990. The choices that confront Lake Oswego at the present time and over the next 15 year period are significant and could alter the character and quality of park, recreation, and open space facilities and services if not adequately planned. This document outlines the choices that are available and the means for implementing preferred actions of most benefit to Lake Oswego residents within this 15 year planning period.

1.2 Parallel open space planning process

This planning process was conducted concurrently with the planning process recently concluded in the adopted March 2001 Lake Oswego Open Space Plan. The Open Space Plan developed thematic recommendations for water access, heritage landscapes, scenic resources, natural resources, green neighborhoods, and regional trail connections. In some instances this plan repeats the proposals identified in the Open Space Plan in order to identify level-of-service standards, specific project proposals, and potential financial requirements. The Open Space Plan should be consulted, however, in order to determine the overall theme within which these specific proposals are meant to be realized.

1.3 Park and recreation plan objectives

The specific objectives of this park and recreation planning effort were to:

- Define the setting - within which park and recreation facilities should be provided within the Lake Oswego urban growth boundary including climatic, historical, cultural, and current developmental conditions.

- Inventory - existing public and private park and recreational facilities that have been developed to-date within the Lake Oswego urban growth boundary by the city, county, and school districts.
- Forecast demand - for future park and recreation facilities and services that may be provided by the city, county, school districts, or other agencies.
- Determine the costs - involved in maintaining and/or improving park and recreation levels-of-service (LOS) standards for different lands and facilities.
- Identify appropriate roles and responsibilities - that should be undertaken by Lake Oswego to meet critical recreational facility and programming needs.
- Develop the elements of a comprehensive plan - for developing and/or refurbishing needed park, recreation, trails, athletic fields and facilities, indoor community and recreation centers, and other special purpose facilities.
- Define an implementation program - outlining the actions necessary to realize the plan's development.

1.4 Approach

This study analyzed the supply, demand, and need for public and private park and recreation facilities and services within the Lake Oswego corporate limits and urban growth boundary. The inventories include a comprehensive assessment of all public and private facilities and services within the city and urban growth boundaries.

The proposed development strategies are the result of this comprehensive analysis. Generally, the proposed strategies recommend the city focus it's resources where park and recreation needs are most critical, and the city most effective.

1.5 Public involvement

The Lake Oswego Park & Recreation Advisory Board (PRAB), Team Sports Advisory Committee (TSAC), Natural Resource Advisory Board (NRAB), and the Lake Oswego Park & Recreation Department oversaw the completion of this planning process.

The proposals contained within this document represent the consensus opinions developed during these events.

1.6 Documentation

This report is organized into 9 chapters dealing with major topic issues. A separate technical appendix includes detailed population statistics, facility inventories, development cost estimates, demand model variables, and public survey results.



Chapter 2: Community setting

Chapter 2: Community setting

Lake Oswego planning area boundaries - are generally described as the city's limits and proscribed urban growth boundaries. The planning area boundary may also be described as the 10.6 square mile area bounded on the:

- North - Tryon Creek State Park, Knaus Road and Stephenson Street, and Portland Community College;
- West - Interstate 5;
- South - the Tualatin River, Childs, Stafford, and Bergis Roads; and
- East - the Willamette River.

Lake Oswego is located between the Tualatin and Willamette Rivers in Clackamas County, Oregon 7 miles south of Portland. Except for open agricultural lands to the southeast, the city is bound by Portland city limits on the north, Tualatin and Tigard city limits on the west, West Linn city limits on the south, and Milwaukie city limits to the east across the Willamette River.

2.1 Climate

Oregon State's climate is strongly influenced by moisture-laden air masses created in the Pacific Ocean. The air masses may move into the region any time of the year, but particularly during fall, winter and spring seasons. The air flow from the Pacific Ocean is interrupted first by the Coast Range Mountains and then significantly by the Cascade Mountains. As a result of the Cascade Mountain range, the west or windward sides of the state receive moderate to heavy precipitation. The east or leeward side of the state in the "rain shadow" of the Cascades receive light to moderate amount of precipitation.

The Cascades also affect temperature ranges in the state. The west or windward side of the state is influenced by maritime air masses generally milder than those that sweep down from the mountains in British Columbia on the east or leeward side of the state. Consequently, eastern Oregon usually has colder winters and hotter summers, while western Oregon is milder and more frost-free.

Lake Oswego is located in the wet westward side of the state in the Willamette River Valley between the Coast Range Mountains and Cascade Mountains at an elevation about 100-900 feet above sea level. Mean temperatures vary from a high of 80+ degrees in July to a low of 40 degrees Fahrenheit in January with extreme variations recorded at -3 to a high of 102 degrees Fahrenheit.

Average annual precipitation is about 37 inches with a mean growing season with temperatures above 32 degrees Fahrenheit for about 170-190 days. Approximately 80% of the precipitation occurs from October through March with less than 6% falling during June, July, and August.

2.2 Earth

Lake Oswego is located within the eastern edge of the Pacific Mountain System which includes the Coast Range Mountains and Cascade Mountain Ranges. The Cascade Mountains were created by continuous volcanic activity along the border of the underlying continental plates. The mountains were in turn, subject to the action of periodic glacial intrusions - the most recent being the Pleistocene glacial period more than 15,000 years ago. The Pleistocene glacial intrusion gradually carved and flooded the Willamette River Valley, the lowland areas, and other valleys between the Coast Range Mountains and Cascade Mountain foothills. The glacial intrusion also created a series of glacier dams that subsequently breached and flooded the eastern portions of the state creating the Columbia River drainage channels.

Lake Oswego is composed of a series of uplands and bluffs bisected by the Willamette and Tualatin Rivers, and focused on Oswego Lake. The hillsides are channeled by a number of tributary drainage corridors created by Tryon Creek, Springbrook Creek, Pecan Creek, and Oswego Creek, among others. Over time, the tributary drainage streams created dramatic hillsides and overlooks, particularly of Oswego Lake and the Willamette River.

Topography ranges from 100 feet in the lowest portion of the Willamette River corridor to 718 feet on Cooks Butte and 761 feet in the Skylands Area in the south portion of the city, to 970 feet on Mount Sylvania in the north. The plateaus and foothills overlooking Lake Oswego and the Willamette River drop off abruptly in slopes ranging from 40 to 75 percent.

2.3 Water

Lake Oswego is drained by two major rivers and a number of minor streams.

- Willamette River - drains the entire valley located between the Coast Range Mountains and Cascade Mountains merging with the Columbia River in Portland to flow into the Pacific Ocean between the Washington and Oregon state boundaries.
- Tualatin River - drains the eastern side of the Chehalem and Tualatin Mountains merging with the Willamette River in West Linn south of Lake Oswego.
- Tryon Creek - drains into the Willamette River on Lake Oswego's north boundary.
- Oswego Creek - drains into the Willamette River from Oswego Lake along the city's eastern boundary.
- Oswego Canal - drains into Oswego Lake from the Tualatin River along the city's southern boundary.
- Springbrook, Pecan, and a number of other creeks - drain into the 405-acre Oswego Lake. Generally, the streams are above ground through the developed urban area though the shorelines have been improved in places. The streams are not significant public water sources and are closed to all consumptive uses.

2.4 Historical development

Indian settlements

The arrival of Indian groups - in the Pacific Northwest cannot be dated with great precision. However, archaeological investigations on the Olympic Peninsula in Washington State and along the Columbia River indicate man was in the area as early as 12,000 years ago.

There are more than 5,000 Indian sites on record, few of which have been professionally evaluated. Generally, sites are located at river conjunctions within valleys and along the

shoreline of the Columbia and Willamette Rivers. Known sites have been grouped into three rather broad time periods:

- early sites - approximately 12,000-8,000 years old,
- middle-period sites - between 8,000-3,000 years old, and
- late period sites - about 3,000 years old.

A large number of different Indian tribes and bands inhabited the Pacific Northwest region with varied life-styles and different languages, dress, ceremonies, and adornments. Tribal characteristics are generally distinguished between the coastal tribes of western Oregon and those of the interior Willamette River Valley and east of the Cascade Mountains. In general, the coastal tribes depended on the rivers and tidal waters for staple foods whereas the interior tribes relied more heavily upon plants and berries, as well as game and other animals.

The Clackamas and the Tualatin Tribes - used Oswego Lake as the dividing line between their respective territories. Both tribes portaged in from the Tualatin and Willamette Rivers to fish Oswego Lake (which they called Waluga - or wild swan) and pick berries. A small Native American population occupied the lands around the lake when the first explorers arrived. Most died of disease brought by the early explorers and settlers. In 1855, the remaining tribal members ceded territory to the Federal Government and moved to the Grand Ronde Reservation in nearby Yamhill County.

Early settlers

Settlers arrived in the area beginning in the 1840s creating homesteads and farms between the Willamette and Tualatin Rivers, and around Waluga Lake - which they renamed Sucker Lake for the abundant fish found in the lake and creek.

Albert Alonzo Durham - secured the first 640 acre Donation Land Claim and founded the town of "Oswego" in 1847. Durham named the town after his birthplace in New York. He built the town's first industry - a sawmill on Sucker (Oswego) Creek. Early settlers built homes, shops, and other buildings in the Old Town plat located on Furnace and Durham Streets north of Sucker (Oswego) Creek.

River transportation - was crucial to the development of the markets between Portland, Oregon City, Tualatin, and other nearby towns. Durham probably built the river landing at the mouth of Oswego Creek in George Rogers Park, and another may have operated from the mouth of Tryon Creek.

The Oregon Steam Navigation Company (OSN), the People's Transportation Company (PTC), and the Willamette River Transportation Company provided steamship service using sternwheelers on the Willamette River. The People's Transportation Company provided service on the Tualatin River controlling portage rights over Willamette Falls at Oregon City.

Iron ore - was discovered in the Tualatin Valley in 1841, but not seriously mined until 1861. In 1865, the Oregon Iron Company was formed - the first of three companies that would be created in the new town. Oregon Iron Company extracted ore from Iron Mountain.

Mountain Natural Area, and built the first iron smelter in 1867 on the banks of Oswego Creek – the remnants of which are located in George Rogers Park.

Oregon Iron Company operated the smelter until 1881, when the plant was acquired and operated by Oregon Iron & Steel Company until 1885. In 1888, Oregon Iron & Steel Company built and operated a larger smelter on the current Oswego Pointe site until 1890. The ore was shipped to the site by rail car. At its peak, the iron industry employed over 300 men producing 12,305 tons of pig iron, Oswego boomed, supporting four general stores, a bank, two barbershops, two hotels, three churches, nine saloons, a drugstore, and even an opera house. Eventually, demand for Oswego iron diminished as the quality declined and shipping costs favored transport from San Francisco.

Willamette Shore Trolley – was built between Portland and Oswego in 1885-1887 by the Portland & Willamette Valley Railroad to replace riverboat and overland wagon roads. The trolley line began operations as a regular gauge trolley line in 1888. The line was later purchased by the Southern Pacific Railroad, electrified in 1914, and peaked in 1920 running 64 “Red Electrics” on a daily basis. The trolley line stimulated development of the growing town and the market relationships with downtown Portland.

Oswego Canal – early sawmills damned Oswego (Sucker) Creek, increasing the size of Oswego Lake to include the deforested lowlands surrounding the original lakebed. The Tualatin River Navigation and Manufacturing Company was formed in 1869 to build a canal connecting Oswego Lake to the Tualatin River to facilitate the transporting of logs, farm products, and other commodities to Portland markets. The canal was completed in 1872, raising the lake and increasing its length from 2.75 to 3.5 miles. Mule teams and laborers drug logs through the canal to the river, then to the smelter and sawmills located on Oswego Creek and Pointe.

Land development – with the decline of the iron industry, Oregon Iron & Steel Company converted holdings into land development projects. The company built a power plant on Oswego Creek in 1905, and began providing power to the newly incorporated city in 1910. The company sold large tracts of the 24,000 acre holding to Paul Murphy, the Ladd Estate Company, and other land developers to build summer and permanent homes for the populations commuting by trolley line from Portland.

Murphy developed the Oswego Lake Country Club to promote the city as a place to “live where you play”. He also built the first water system to serve the west end of the city and encouraged noted architects to design showcase homes in the city during the 1930s and 1940s. Residential development accelerated around the perimeter of Oswego Lake in the 1940s and 1950s. Lake Grove was annexed on the west end of the city in 1960 and the city was renamed Lake Oswego.

Land use pattern – the city is developed primarily for residential use with relatively little commercial or industrial activity. Commercial centers are located at the older east end of the lake on A Avenue and State Street, and the west end of the lake adjacent to Interstate 5 on Kruse Way and Boones Ferry Road.

Industrial manufacturing, sawdust mill, and offices are located along the Willamette River and the railroad tracks off Oswego Pointe Drive, and along Interstate 5.

2.5 Population

Lake Oswego was incorporated in 1910. The city population increased on a gradual basis up to 1950 reflecting the impact of the logging, iron ore industry, trolley line, and then increase significantly from 1970 onwards as a result of the development of summer and then permanent residences.

Population trends - the estimated 1999 population for Lake Oswego was 34,213 persons. The average annual rate of growth for Lake Oswego increased from a -3.4% during the 1920s to 3.0% in the 1930, 6.7% in the 1940s, and 10.4% in the 1950s. The average annual rate of growth declined in the decades after from 5.1% in the 1960s to 1.1% in the 1990s as the city built out and aged.

Population projections - according to Portland State University Population Research & Census Center, Lake Oswego will increase in population from 34,213 persons in 1999 to 39,262 persons by the year 2015 - or by another 5,049 persons or by 14.8% equal to an average annual growth rate of 0.7% over this time period.

The average annual growth rates will vary within the surrounding region but gradually decline in rates with Washington County decreasing on the average from 2.0% to 1.5%, Clackamas County decreasing from 1.8% to 1.7%, and Multnomah County remaining constant at 0.5%.

Population projections

	United States	Oregon State	Willamette River Region (Clackamas, Multnomah, Washington)				
			Clackamas County		Multnomah County		Washington County
							Lake Oswego

1900	76,212,168	413,536	137,292	19,658	103,167	14,467	
1910	92,228,496	672,765	277,714	29,931	226,261	21,522	
1920	106,021,537	783,389	338,972	37,698	275,898	25,376	1,818
1930	123,202,624	953,786	414,721	46,205	338,241	30,275	1,285
1940	132,164,569	1,089,684	451,423	57,130	355,099	39,194	1,726
1950	151,325,798	1,521,341	619,522	86,716	471,537	61,269	3,316
1960	179,323,175	1,768,687	728,088	113,038	522,813	92,237	8,906
1970	203,211,926	2,091,385	880,675	166,088	556,667	157,920	14,615
1980	226,545,805	2,633,105	1,050,367	241,919	562,640	245,808	22,527
1990	248,709,873	2,842,321	1,174,291	278,850	583,887	311,554	30,800
1999		3,316,154	1,380,780	338,251	633,224	409,305	34,300

Forecasts

2000	268,266,000	3,406,000	1,420,220	338,247	659,087	422,886	
2005	275,604,000	3,631,000	1,513,891	369,683	676,975	467,233	
2010	282,575,000	3,857,000	1,609,076	403,915	694,597	510,564	
2015	288,997,000	4,091,000	1,709,670	441,193	713,532	554,945	39,262
2020	294,364,000	4,326,000	1,811,692	480,392	732,500	598,800	
2025		4,556,000	1,912,454	520,594	750,949	640,911	
2030		4,776,000	2,008,750	562,154	767,436	679,160	
2035		4,988,000	2,100,635	605,300	782,369	712,966	
2040		5,193,000	2,189,491	649,939	795,698	743,854	

Annual average percent change by increment

1900-1910	1.9%	5.0%	7.3%	4.3%	8.2%	4.1%	
1910-1920	1.4%	1.5%	2.0%	2.3%	2.0%	1.7%	
1920-1930	1.5%	2.0%	2.0%	2.1%	2.1%	1.8%	-3.4%
1930-1940	0.7%	1.3%	0.9%	2.1%	0.5%	2.6%	3.0%
1940-1950	1.4%	3.4%	3.2%	4.3%	2.9%	4.6%	6.7%
1950-1960	1.7%	1.5%	1.6%	2.7%	1.0%	4.2%	10.4%
1960-1970	1.3%	1.7%	1.9%	3.9%	0.6%	5.5%	5.1%
1970-1980	1.1%	2.3%	1.8%	3.8%	0.1%	4.5%	4.4%
1980-1990	0.9%	0.8%	1.1%	1.4%	0.4%	2.4%	3.2%
1990-1999		1.6%	1.6%	1.9%	0.8%	2.8%	1.1%

Forecasts

2000-2005	0.5%	1.3%	1.3%	1.8%	0.5%	2.0%	
2005-2010	0.5%	1.2%	1.2%	1.8%	0.5%	1.8%	
2010-2015	0.5%	1.2%	1.2%	1.8%	0.5%	1.7%	
2015-2020	0.4%	1.1%	1.2%	1.7%	0.5%	1.5%	0.7%
2020-2025		1.0%	1.1%	1.6%	0.5%	1.4%	
2025-2030		0.9%	1.0%	1.5%	0.4%	1.2%	
2035-2035		0.9%	0.9%	1.5%	0.4%	1.0%	
2035-2040		0.8%	0.8%	1.4%	0.3%	0.9%	

Sources:

US Bureau of the Census, Current Population Reports, Series P-25, Number 1018,
 Mid Series 14: fertility=1.8 births/woman, mortality=81.2 years,
 500,000 yearly net immigration.
 Portland State University Research & Census Center



Chapter 3: Goals and objectives

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The following goals and objectives are based on an analysis of park, recreation, open space conditions, and the results of workshop planning sessions.

3.1 Wildlife resources

Incorporate unique ecological features and resources into the park system to protect threatened species, preserve habitat, and retain migration corridors that are unique and important to local wildlife.

Wildlife habitat

- a. Identify and conserve critical wildlife habitat including nesting sites, foraging areas, and migration corridors within or adjacent to natural areas, open spaces, and the developed urban areas – such as Oswego Canal and Tryon Creek.
- b. Preserve especially sensitive habitat sites that support threatened species and urban wildlife habitat - such as the riparian corridors adjacent to the Tualatin and Willamette Rivers.

Natural areas

- a. Preserve and protect significant environmental features including unique wetlands, open spaces, woodlands, shorelines, waterfronts and other characteristics that support wildlife and reflect Lake Oswego's resource heritage – such as the Oswego Canal.
- b. Provide public access to environmentally sensitive areas and sites that are especially unique to the Lake Oswego area - such as Cooke's Butte Park, Iron Mountain, and the Luscher Farm properties.

3.2 Open spaces and preserves

Develop a high quality, diversified park system that preserves and enhances significant environmental resources and features.

Open spaces

- a. Define and conserve a system of open space corridors or separators to provide definition between natural areas and urban land uses within the Lake Oswego developing area – such as West Waluga and East Waluga Parks.
- b. Increase natural area and open space linkages within the developed area, particularly along the Oswego Canal.
- c. Preserve environmentally sensitive areas as natural area linkages and urban separators, particularly along the steep hillsides that define Iron Mountain and Cooke's Butte.

Urban growth preserves and set-asides

- a. Cooperate with other public and private agencies, and with private landowners to set-aside land and resources necessary to provide high quality, convenient park and recreation facilities before the most suitable sites are lost to development - such as the undeveloped and sensitive lands around the Luscher Farm properties.
- b. Preserve unique environmental features or areas in future land developments and increase public use and access. Cooperate with other public and private agencies, and with private landowners to set aside unique features or areas as publicly accessible resources - such as the mill sites adjacent to Roehr Park.

3.3 Historical resources

Develop a high quality, diversified park system that preserves significant historical opportunity areas and features.

Historical features and interests

- a. Identify, preserve, and enhance Lake Oswego's multicultural heritage, traditions, and cultural features including historical sites, buildings, artworks, views, and monuments within the downtown and historical districts and park sites.
- b. Identify and incorporate significant historical and cultural lands, sites, artifacts, and facilities into the park system to preserve these interests and provide a balanced social experience - such as the iron ore smelter in George Rogers Park.
- c. Work with the Lakewood Arts Center, Oswego Heritage Council, and other cultural groups to incorporate community activities into the park and recreational program.

Manmade environments and features

- a. Incorporate interesting manmade environments, structures, activities, and areas into the park system to preserve these features and provide a balanced park and recreation experience - such as the Oswego Canal and Lake headgates, dams, and other improvements.
- b. Work with the Lake Corporation, homeowner associations, and other property and facility owners to increase public access and utilization of these special features.

3.4 Trail and corridor access systems

Develop a high quality system of multipurpose park trails and corridors that access significant environmental features, public facilities and developed local neighborhoods and business districts.

Trail systems

- a. Create a comprehensive system of multipurpose off-road trails using alignments through Oregon State Parks, Pacific & Western Railroad landholdings as well as cooperating private properties where appropriate.
- b. Create a comprehensive system of on-road bicycle routes for commuter, recreational, and touring enthusiasts using scenic, collector, and local road rights-of-way and alignments through Lake Oswego and the surrounding area.
- c. Link residential neighborhoods to community facilities like the library and city hall, among others.

- d. Work with Oregon State, Clackamas County, Portland, METRO and other appropriate parties to link and extend the Willamette Riverfront Trail along the river shoreline south to West Linn and north to Portland.
- e. Link trails with parks, schools, athletic clubs, swimming pools, the downtown, as well as other commercial and retail activity centers within Lake Oswego.
- f. Extend trails through natural area corridors like Tryon Creek State Park, and the Tualatin and Willamette Rivers that will provide a high quality, diverse sampling of area environmental resources.

Supporting furnishings and improvements

- a. Furnish trail systems with appropriate supporting trailhead improvements that include interpretive and directory signage systems, rest stops, drinking fountains, restrooms, parking and loading areas, water and other services.
- b. Where appropriate, locate trailheads at or in conjunction with park sites, schools, and other community facilities to increase local area access to the trail system and reduce duplication of supporting improvements.
- c. Install telephones, emergency call boxes, or other means by which trail users can summon fire, emergency aid, police, and other safety and security personnel should the need arise.
- d. Develop trail improvements of a design and development standard that is easy to maintain and access by maintenance, security, and other appropriate personnel, equipment, and vehicles.

3.5 Recreational facilities

Develop a high quality, diversified recreation system that provides for all age and interest groups.

Waterfront access and facilities

- a. Cooperate with Oregon State Parks Department, Portland, West Linn, and other public and private agencies to acquire and preserve additional shoreline access for waterfront fishing, wading, swimming, and other related recreational activities and pursuits.
- b. Develop a mixture of watercraft access opportunities including canoe, kayak, sailboard, and other non-power boating activities, especially on the Tualatin and Willamette Rivers, and Oswego Canal and Lake.

Athletic facilities

- a. Develop athletic facilities that meet the highest quality competitive playing standards and requirements for all age groups, skill levels, and recreational interests.
- b. Concentrate on field and court activities like soccer, football, baseball, basketball, tennis, and volleyball that provide for the largest number of participants.
- c. Develop, where appropriate, a select number of facilities that provide the highest competitive playing standard, possibly in conjunction with the Lake Oswego School District, local church and private school organizations, and other public and private agencies.

Indoor facilities

- a. Develop multiple use indoor community centers that provide arts and crafts, music, video, classroom instruction, meeting facilities, eating and health care, daycare, latch key, and other spaces for all age groups including preschool, youth, teens, and seniors on a year-round basis.
- b. Maintain and expand multiple use indoor recreational centers that provide aquatic, physical conditioning, gymnasiums, recreational courts, and other athletic spaces for all age groups, skill levels, and community interests on a year-round basis.
- c. Support the continued development and diversification by the Lake Oswego School Districts, YMCA, YWCA, Adult Community Center, Lakewood Arts Center, Portland Community College, Marylhurst College, and other organizations of special meeting, assembly, eating, health, and other community facilities that provide general support to school age populations and the community-at-large at elementary, middle, and high schools within Lake Oswego.
- d. Develop and operate special indoor and outdoor cultural and performing arts facilities that enhance and expand music, dance, drama, and other audience and participatory opportunities for the community-at-large.

3.6 Special purpose facilities

Develop high quality facilities that meet the interests of all segments of the community.

Special enterprises

- a. Where appropriate and economically feasible (self-supporting), develop and operate specialized and special interest recreational facilities like golf courses, swimming pools and aquatic centers, convention and theater facilities, and marinas for these interests in the general population.
- b. Where appropriate, initiate joint planning and operating programs with other public and private agencies to determine and provide for special activities like golf, water parks and marinas on a regional basis.

3.7 Recreational programs

Develop high quality recreational programs and services that meet all community group needs.

Recreational programs

- a. Support arts and crafts, classroom instruction in music and dance, physical conditioning and health care, meeting facilities, daycare, latch key, and other program activities for all cultural, age, physical and mental capability, and income groups in the community.
- b. Support soccer, baseball, softball, basketball, volleyball, tennis, and other instruction and participatory programs for all age, skill level, and income groups in the community.
- c. Assist historical and cultural societies to develop and display artifacts, reports, and exhibits; and conduct lectures, classes, and other programs that document and develop awareness of Lake Oswego's heritage.

3.8 Cultural arts programs and resources

Develop high quality, diversified cultural arts facilities and programs that increase community awareness, attendance, and participation opportunities.

Programs

- a. Support successful collaborations between the Lakewood Arts Center, Lake Oswego Historical Society, Chamber of Commerce, business community, service groups, schools, arts patrons, and artists that optimally utilize artistic resources and talents.
- b. Develop strategies that will support and assist local artists and art organizations. Where appropriate, support policies and programs that encourage or provide incentives that attract and retain artists and artworks within Lake Oswego.

Artworks

- a. Acquire public artworks including paintings, sculptures, exhibits, and other media for indoor and outdoor display to expand resident access and appropriate furnish public places.

3.9 Design and access standards

Design and develop facilities that are accessible, safe, and easy to maintain, with life cycle features that account for long-term costs and benefits.

Accessibility

- a. Design outdoor picnic areas, fields, courts, playgrounds, trails, parking lots, restrooms, and other active and supporting facilities to be accessible to individuals and organized groups of all physical capabilities, skill levels, age groups, income and activity interests.
- b. Design indoor facility spaces, activity rooms, restrooms, hallways, parking lots, and other active and supporting spaces and improvements to be accessible to individuals and organized groups of all physical capabilities, skill levels, age groups, income and activity interests.

Maintenance

- a. Design and develop facilities that are of low maintenance and high capacity design to reduce overall facility maintenance and operation requirements and costs.
- b. Where appropriate, use low maintenance materials, settings or other value engineering considerations that reduce care and security requirements, and retain natural conditions and experiences.

Security and safety

- a. Implement the provisions and requirements of the American Disabilities Act (ADA) and other design and development standards that will improve park facility safety and security features for park users, department personnel, and the public-at-large.
- b. Develop and implement safety standards, procedures, and programs that will provide proper training and awareness for department personnel.
- c. Define and enforce rules and regulations concerning park activities and operations that will protect user groups, department personnel, and the general public-at-large.

- d. Where appropriate, use adopt-a-park programs, neighborhood park watches, park police patrols, and other innovative programs that will increase safety and security awareness and visibility.

3.10 Financial resources and coordination

Create effective and efficient methods of acquiring, developing, operating and maintaining facilities and programs that accurately distribute costs and benefits to public and private interests.

Finance

- a. Investigate innovative available methods, such as system development charges, land set-a-side or fee-in-lieu-of-donation ordinances, and inter-local agreements, for the financing of facility development, maintenance, and operating needs in order to reduce costs, retain financial flexibility, match user benefits and interests, and increase facility services.
- b. Consider joint ventures with other public and private agencies such as the Lake Oswego School District, Lakewood Arts Center, Lake Corporation, Marylhurst College, regional, state, federal, and other public and private agencies including for-profit concessionaires, where feasible and desirable.

Public and private resource coordination

- a. Create a comprehensive, balanced park and recreation system that integrates Lake Oswego facilities and services with resources available from Lake Oswego School District, and other state, federal, and private park and recreational lands and facilities in a manner that will best serve and provide for resident area interests.
- b. Cooperate with Lake Oswego School District, and other public and private agencies to avoid duplication, improve facility quality and availability, reduce costs, and represent resident area interests through joint planning and development efforts.

Cost/benefit assessment

- a. Define existing and proposed land and facility levels-of-service (ELOS/PLOS) that differentiate requirements due to population growth impacts versus improved facility standards, neighborhood versus community nexus of benefit, city versus the combination of city, county, school, and other provider agency efforts in order to effectively plan and program park and recreation needs within the proposed urban growth area boundaries.
- b. Create effective and efficient methods of acquiring, developing, operating, and maintaining park and recreational facilities in manners that accurately distribute costs and benefits to public and private user interests - including the application of service development charges where new developments impact existing level-of-service (ELOS) standards.
- c. Develop and operate lifetime recreational programs that serve the broadest needs of the population recovering program and operating costs with a combination of registration fees, user fees, grants, sponsorships, donations, scholarships, volunteer efforts, and the use of general funding.
- d. Where appropriate, provide recreational programs, like golf courses, for those interested groups who are willing to finance the cost through user fees, registration fees, volunteer efforts or other means and methods.

3.11 Human resources

Develop, staff, train, and support a professional parks, recreation, and arts staff that effectively serves the community in the realization of the above listed goals and objectives.

Personnel

- a. Employ a diverse, well-trained work force that is motivated to achieve department and citywide goals.
- b. Encourage teamwork through communications, creativity, positive image, risk taking, sharing of resources, and cooperation toward common goals.
- c. Where appropriate, provide staff with education, training, and modern equipment and supplies to increase personal productivity, efficiency, and pride.



Chapter 4: Existing facilities

Chapter 4: Existing facilities

Lake Oswego, Lake Oswego School District, Oregon State and other public and private agencies have assembled 1,243.9 acres of land devoted exclusively to park, recreation, and open space uses within or adjacent to the Lake Oswego urban growth boundary.

These lands provide a variety of activities including wildlife conservancies, waterfront beaches, picnic facilities, multipurpose trail corridors, athletic fields and playgrounds, community centers, and related park supporting administrative and maintenance facilities.

Following is a brief accounting of park and recreation land and facilities - open spaces are described in the March 2001 Lake Oswego Open Space Plan.

4.1 Lake Oswego

Lake Oswego owns 35 properties with 517.4 acres of land available for public park, recreation, and open space use.

	Park	Features	Acres
1	Freepons Park	Playground, grassy play area, nature trails, and natural area located on Hemlock Street close to Hallinan School.	6.0
2	George Rogers Park	Extensive natural area with woodlands and shoreline located on Oswego Creek confluence with the Willamette River with access from State, Ladd, and Furnace Streets. The park includes an historic iron ore smelter, memorial flower garden, playground, picnic tables and 2 shelters, gazebo, play area, 2 lighted softball/Little League fields, 1 lighted soccer field, 2 tennis courts, nature trails, riverfront multipurpose trail, swimming beach, and 2 restrooms.	24.1
3	Greentree Park	Playground, play area, basketball court, and bench located on Greentree Road and Carter Place.	0.4

4	Millennium Plaza Park	Commemorative park with sculptures, fountains, multipurpose paved area, benches, covered group picnic shelter with reflecting pond, lake overlooks, grassy play area, and restrooms on Evergreen Avenue and 2nd Street behind downtown redevelopment project. Hillside stairway and railroad crossing, shoreline access, natural area, water feature/sculpture, paved area, benches, and waterfront terraced stairway located on the east shore of Lakewood Bay on North State Street.	2.7
5	Pilkington Park	Play fields located on Pilkington Road and Dawn Street adjacent to River Grove School.	5.0
6	Red Fox Hills #1	Playground, landscaping, and nature trails located in wooded area on Timberline Drive in the Red Fox Hills PUD.	0.5
7	Red Fox Hills #3	Playground, landscaping, and nature trails located in wooded area on Hide-a-Way Lane in the Red Fox Hills PUD.	0.2
8	Roehr Park	Shoreline park located on the west bank of the Willamette River with multipurpose riverfront trail, viewing deck, amphitheater, picnic table, restrooms, Water Sports Center, and access from Oswego Pointe Drive.	7.2
9	Rossman Park	Playground, picnic tables, basketball court and shelter, located in Old Town neighborhood on 4th Street.	0.5
10	East/West Waluga Park	Extensive natural area with woodlands, wetland, and stream on Quarry Road with playground, grassy play area, picnic tables and shelter, nature trails, lighted baseball field, 2 softball/Little League fields, 2 soccer fields, 2 tennis courts, 1 basketball court, restrooms, and city water reservoir. Park includes an abandoned quarry 200-feet in diameter with 15 to 20-foot walls on 3 sides.	46.4
11	Westlake Park	Playground, play area, picnic tables, lighted baseball, 2 Little League, 2 soccer fields, 2 tennis courts, 1 basketball court, and restrooms on Melrose Street.	13.4
12	Westridge Park	Playground, play area, volleyball court, nature trails, 1 Little League, and 1 soccer field located on Westridge Drive adjacent to Westridge School.	1.7
13	Cooks Butte Park	Extensive natural area with heavily wooded west and south hillsides, natural meadow on the hilltop, streams, hiking paths, and overlooks of the lake and city with access from Palisades Crest Drive.	43.0

14	Glenmorrie Park	Natural area with trails located off Highway 43 across from the Sisters of the Holy Names Convent.	2.7
15	Iron Mountain Park	Open space located at the bottom of the hillside adjacent to the Hunt Club on Iron Mountain Boulevard with streams, wetland, and access trails.	4.4
16	Luscher Farm	Historic Luscher farm and adjacent Taylor, Farr, Lang, Rahseek and Brock properties with croplands and pasture, homestead house, barn, chicken coop, hog barn, shop and garage, and other outbuildings located on the edge of the urban growth boundary on Stafford Road and Rosemont.	120.0
17	River Run Park	Undeveloped open space parcels located along the north bank of the Tualatin River adjacent to the head gate of the Oswego Canal - access between parcels is through the adjacent residential area.	10.8
18	Southwood Park	Wooded area with nature trails located on Pamela Court on the west edge of the city.	2.5
19	Bryant Woods Nature Park	Extensive woodland area with wetlands, stream, nature trails, picnic tables, and interpretive signage located on the west bank of the Oswego Canal with access from Childs Road.	19.7
20	Springbrook Park	Extensive woodland area with wetlands, streams (Springbrook Creek), and nature trails located adjacent to Lake Oswego JH and Uplands ES with access from Diane Drive and Rainbow Drive - includes site of Indoor Tennis Center. Park use limited to natural area by city charter amendment.	52.3
21	Woodmont Natural Area Park	Woodland area with wetlands, stream, and nature trails located on Knaus Atwater Road.	6.7
22	Campbell Native Garden	Woodland area with stream and nature trail located on Iron Mt. Blvd.	
23	Canal Acres Natural Area	Extensive woodland area with wetlands and nature trails located adjacent to Bryant Woods Park on the west bank of Oswego Canal on Childs Road. Includes length of Oswego Canal and head gate across from River Run Park at the confluence with the Tualatin River.	31.1
24	Ellen R Bergis Nature Preserve	Wooded stand located on the corner of State Street and McVey Avenue adjacent to George Rogers Park.	0.2

25	Iron Mountain Natural Area	Extensive natural area with steep wooded hillsides, streams, and some access trails located on Iron Mountain Boulevard next to the Oswego Hunt Club. The site includes the historic iron ore mines including remnants of the water tower, and platform adjacent to the mineshafts.	38.7
26	Lamont Springs Natural Area	Woodlands, wetlands, and some nature trails located at the west end of West Bay on Bryant Road.	3.8
27	Adult Community Center	12,974-square foot facility located on G Avenue adjacent to Tryon Creek State Natural Area with multipurpose meeting rooms, banquet room, kitchen, library, lounge area, hobby rooms, and offices. Building includes a large wooden deck overlooking heavily wooded natural areas.	2.0
28	Indoor Tennis Center	28,288-square foot facility located in Springbrook Park on Diane and Rainbow Drives with 4 indoor tennis courts, office, lockers, and instruction area. The facility is used for instruction, league and open play.	2.0
29	Municipal Golf Course	18-hole, 61-par, 2,725-yard golf course with driving range, pro shop, 4,650 square foot clubhouse, and grounds maintenance shop located on Stafford Road.	38.6
30	South Shore Tennis Courts	2 non-regulation size outdoor tennis courts located on top of the water tower on South Shore Boulevard.	1.3
31	Lake Oswego Swim Park	Outdoor swimming beach with floats, docks, lifeguards, picnic tables, grassy play area, and portable restrooms on the east end of Lake Oswego near the outlet of Oswego Creek on Ridgeway Drive. The swimming area is limited to a 100x100-foot easement surrounded by a pier in the lake.	0.3
32	Water Sports Center	2,636-square foot boathouse with rowing shell storage, instruction area, and overhead viewing platforms on the Willamette River close to Roehr Park with access from Oswego Pointe Drive.	na

33	Willamette Shore Trolley	The right-of-way and rolling stock were purchased in 1984 by the non-profit Portland Friends of the Willamette River Greenway. The Oregon Electric Railway Historical Society (OERHS) operates the trolley 7 miles along the west bank of the Willamette River to downtown Portland. Trolleys are run on a daily basis during the summer, on weekends during the winter, and for special events in cooperation with the Lake Oswego, Portland, Clackamas and Multnomah Counties, and Metro. The trolley is accessed from a depot in downtown Lake Oswego on State Street across from Millennium Park and stations in downtown Portland on Sheridan Street under the Marquam Bridge and RiverPlace on Harbor Way.	24.2
34	Lake Oswego City Hall	City Hall building located at 4th Street and A Avenue provides council chamber, hearing room, conference rooms, and other spaces available for public use on a scheduled basis. The Lake Oswego Public Art Collection comprising 71 items is housed in city hall and the library.	2.0
35	Lake Oswego Library	1983 library building located on 4th Street provides historical archives and photos, computer access, and meeting room available for public use on a scheduled basis. Also houses portion of the Lake Oswego Public Art Collection.	2.0
36	Skate park and City Maintenance Shops	City facility located on Jean Road houses a skateboard park with portable sidewalls and ramps - and includes maintenance grounds and shop.	1.0
Total acres			448.2



City of Lake Oswego Parks and Recreation Master Plan

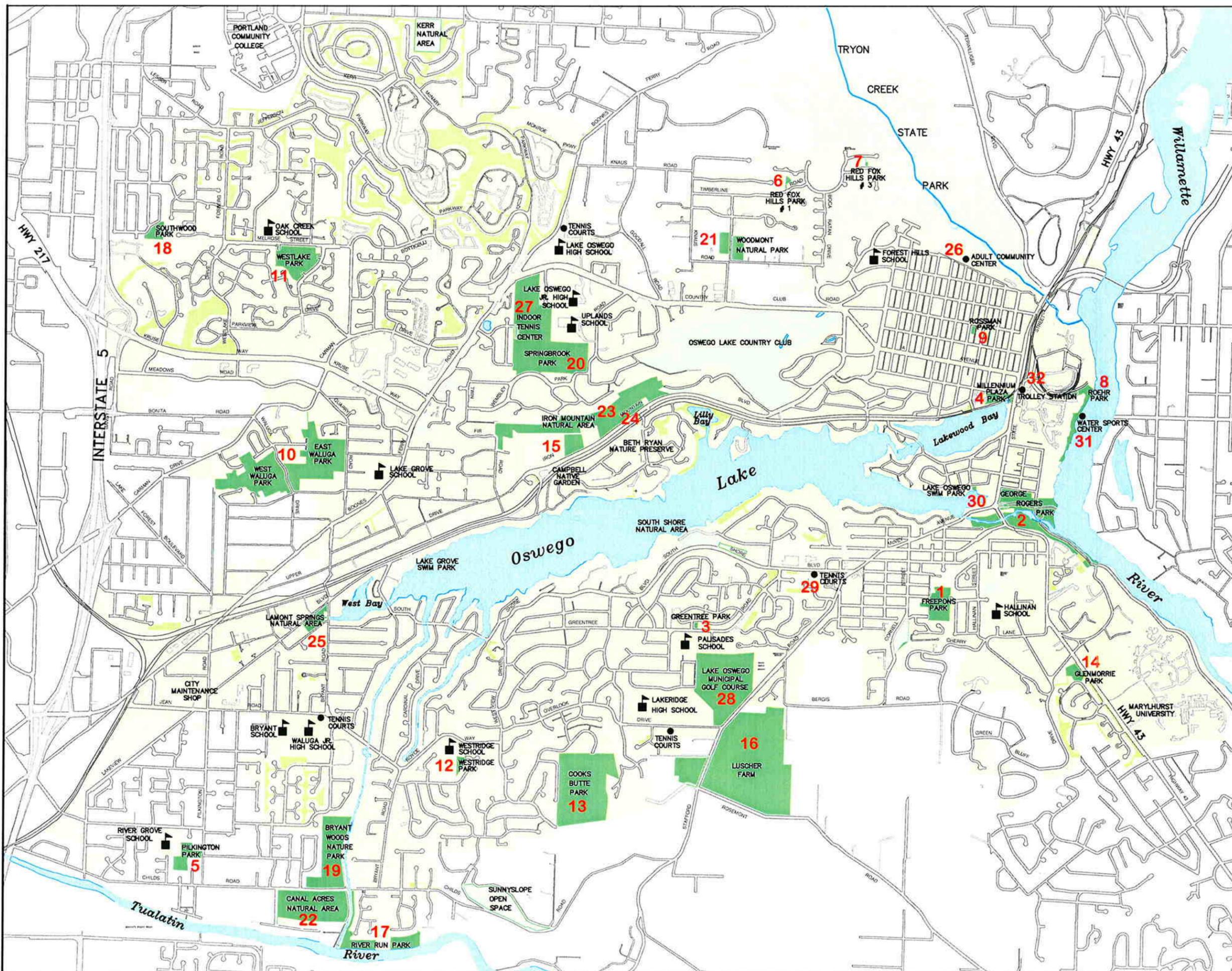
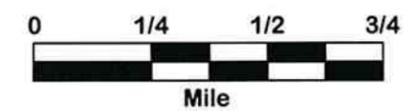
Lake Oswego Park Lands and Properties

 Lake Oswego Parks and Properties

1. Freepons Park
2. George Rogers Park
3. Greentree Park
4. Millennium Park
5. Pilkington Park
6. Red Hills Park #1
7. Red Hills Park #2
8. Roehr Park
9. Rossman Park
10. East/West Waluga Park
11. Westlake Park
12. Westridge Park
13. Cooks Butte Park
14. Glenmorrie Park
15. Iron Mountain Park
16. Luscher Park
17. River Run Park
18. Southwood Park
19. Bryant Woods Nature Park
20. Springwood Park
21. Woodmont Natural Area Park
22. Canal Acres Natural Area
23. Iron Mountain Natural Area
24. Iron Mountain Creek
25. Lamont Springs Natural Area
26. Adult Community Center
27. Indoor Tennis Center
28. Municipal Golf Course
29. South Shore Tennis Courts
30. Lake Oswego Swim Park
31. Water Sports Center
32. Willamette Shore Trolley



Geographic
Information
Services



4.2 Lake Oswego School District

The Lake Oswego School District owns 13 properties with 55.5 acres of land utilized for recreational facilities within Lake Oswego urban growth boundaries.

School	Features	Acres
1 Bryant ES	Elementary school located on Jean Road adjacent Waluga JH with playground, play area, 2 Little League/softball fields, 2 soccer fields, and small gymnasium.	2.4*
2 Forest Hills ES	Elementary school located on Andrews Road with playground, play area, 1 Little League, 1 soccer field, and small gymnasium, outdoor covered basketball court.	2.5*
3 Hallinan ES	Elementary school located on Hallinan Street with playground, play area, 1 Little League, 1 soccer field, and small gymnasium, outdoor covered basketball court.	2.0*
4 Lake Grove ES	Elementary school located on Boones Ferry Road with playground, play area, 2 Little League/softball fields, 1 soccer field, and small gymnasium.	2.0*
5 Oak Creek ES	Elementary school located on Melrose Street with playground, play area, 2 basketball courts, 1 soccer field, and small gymnasium.	2.8*
6 Palisades ES	Elementary school located on Greentree Avenue with playground, play area, 2 basketball courts, 2 soccer fields, and a small gymnasium.	3.0*
7 River Grove ES	Elementary school located on McEwan Road with playground, play area, 1 practice soccer field, and small gymnasium.	2.8*
8 Uplands ES	Elementary school located on Wembly Park Road adjacent to Lake Oswego JH with playground, play area, 1 Little League, 1 soccer field, and a small gymnasium.	2.0*
9 Westridge ES	Elementary school located on Royce Way with playground, play area, 1 soccer field, and a small gymnasium.	2.0*
10 Lake Oswego JH	Junior high school located on Country Club Road adjacent to Uplands ES with 4 basketball courts, 1 lighted football/soccer field, 2 lighted Little League fields, and a medium gymnasium.	6.0*
11 Waluga JH	Junior high school located on Jean Road adjacent to Bryant ES with 2 basketball courts, 2 tennis courts, 1 lighted football, 3 lighted Little League/softball fields, 2 lighted soccer fields, and a medium gymnasium.	9.0*

12	Lake Oswego HS	High school located on County Club Road with indoor swimming pool, 6 tennis courts, track, 1 lighted football/soccer field, 1 lighted baseball, and 2 large gymnasiums. Will add gymnasium in 2002.	7.0*
13	Lakeridge HS	High school located on Overlook Drive with 6 outdoor tennis courts (3 w/lights; 3 w/o lights), 1 practice football field, 1 lighted track/football/soccer field, 1 lighted baseball field, 1 unlit baseball field, soccer practice area, 2 large gymnasiums.	12.0*
Total acres			55.5

* Includes portion of site used for recreational purposes equal to 40% of elementary and 60% of junior and senior high schools.



City of Lake Oswego Parks and Recreation Master Plan

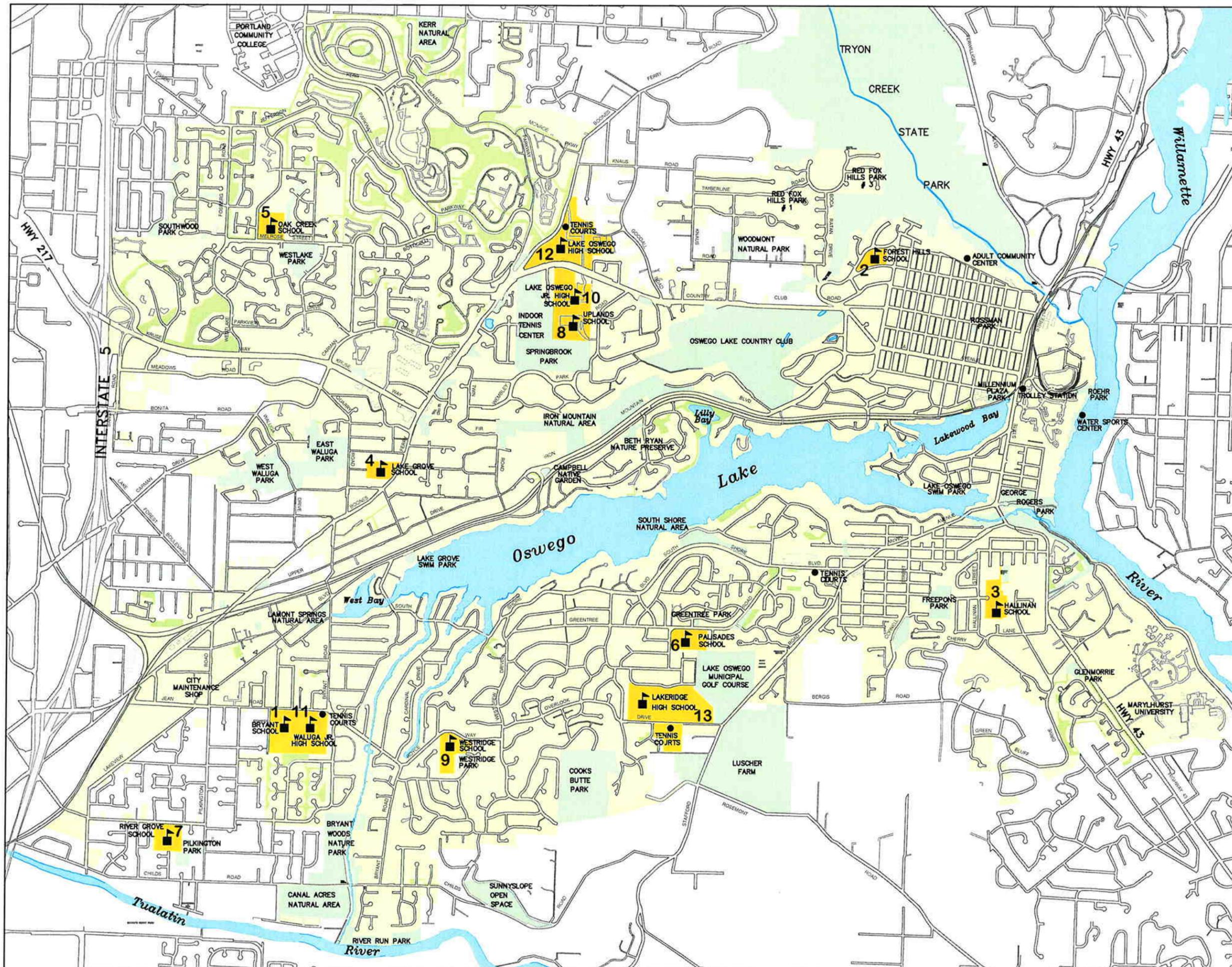
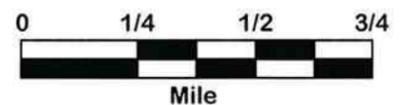
Lake Oswego School District

 Lake Oswego School District Property

1. Bryant Elementary School
2. Forest Hills Elementary School
3. Hallinan Elementary School
4. Lake Grove Elementary School
5. Oak Creek Elementary School
6. Palisades Elementary School
7. River Grove Elementary School
8. Uplands Elementary School
9. Westridge Elementary School
10. Lake Oswego Jr. High School
11. Waluga Jr. High School
12. Lake Oswego High School
13. Lakeridge High School



Geographic
Information
Services



4.3 Other publicly accessible facilities

Other public agencies own 4 properties with 671.0 acres of land utilized for public facilities with recreational spaces and/or conserved for resource habitat and trail opportunities within the Lake Oswego urban growth boundary.

Park	Features	Acres
1 Tryon Creek State Park	Extensive natural area with woodlands, wetlands, and streams provided with a Nature Center, amphitheater, nature trails, 8.0 miles of hiking trails, 3.5 miles of horse trails, and 3.0 miles of bicycle trails.	645.0
2 Portland Community College	Sylvania Campus of PCC system located off Kerr Way/49th Avenue with student center, meeting rooms, auditorium, track, and football field for student and some public uses in adjacent City of Portland Lesser Park.	20.0*
3 National Guard Armory	National Guard training and equipment storage facility located on South Shore Boulevard with multipurpose room and full sized concrete basketball court available for public use on scheduled basis.	2.0
4 Lake Grove Swim Park	Owned by Lake Grove Park District and operated by the Lake Oswego School District - an outdoor swimming beach located on the south end of Oswego Lake on Lakeview Drive. The park provides floats, docks, lifeguards, wading pool, picnic tables and shelters, grassy play area, horseshoes, volleyball court, and restrooms - available for parties and school use. Use limited to special tax district residents.	4.0
Total acres		671.0

*Includes portion of site used for recreational purposes.

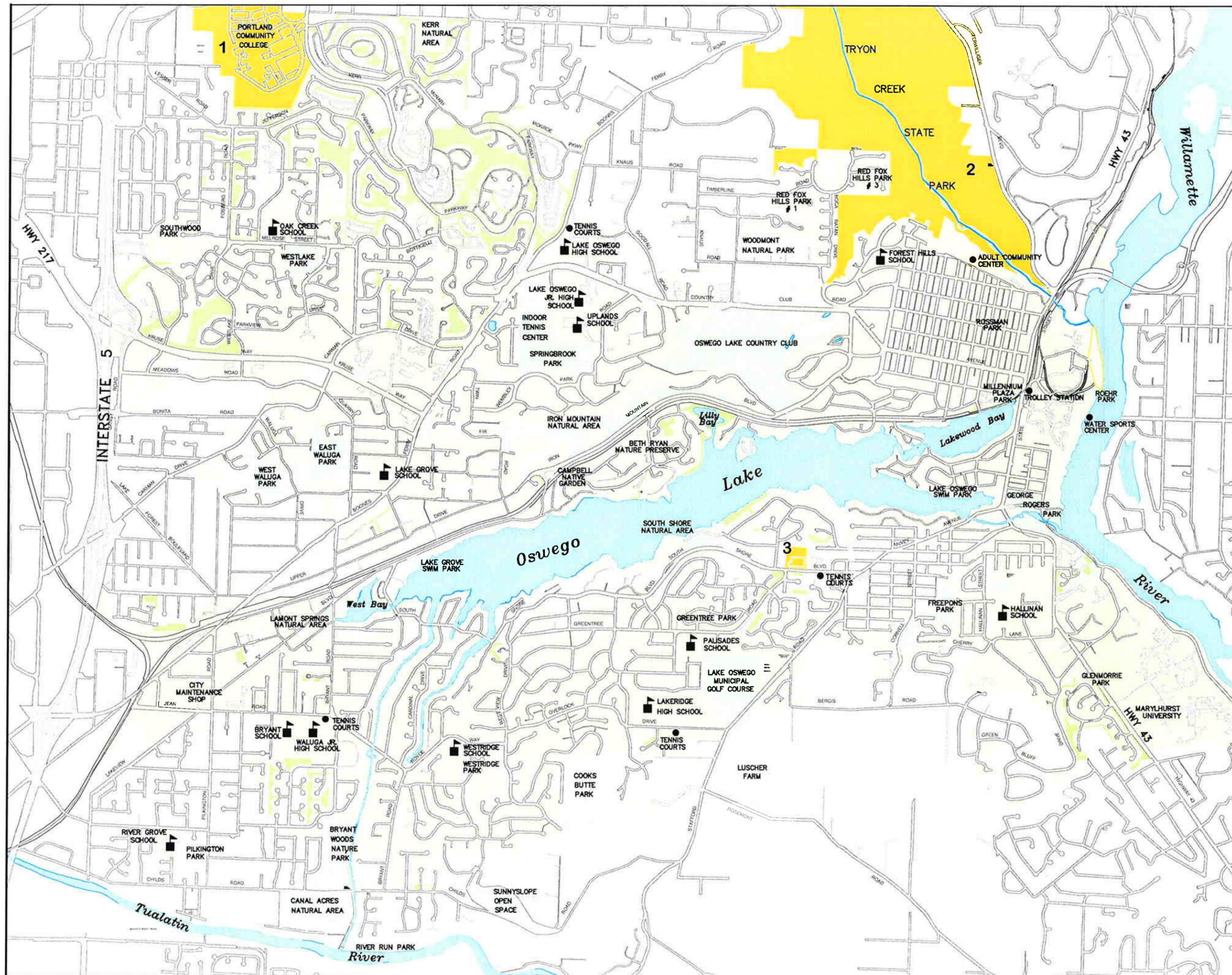


City of Lake Oswego Parks and Recreation Master Plan

Other Public Agencies

 Other Public Agencies

1. Portland Community College
2. Tryon Creek State Park
3. National Guard Armory



Geographic
Information
Services



4.4 Inventory implications

- Lake Oswego, Lake Oswego School District, Oregon State, and other public agencies have amassed an impressive amount of acreage - that includes every conceivable kind of park land and recreational facility within the Lake Oswego urban growth boundary.
- Almost every kind of park, recreation, and open space land - is presently provided by Lake Oswego, Lake Oswego School District, Oregon State, and other public agencies within the region.
- A significant portion of the inventory are regional facilities - that are used by populations who reside outside of Lake Oswego service areas boundaries even though the maintenance and operation of these sites has been financed by the city.
- Lake Oswego School District has developed an extensive amount and significant percentage of the inventory of park and recreational related facilities - including outdoor playgrounds and athletic fields, and indoor arts and crafts, meeting rooms, and gymnasiums. School facilities represent a significant portion of the more competitive and higher quality, capacity sites - and much of the smaller, more flexible facilities that are used on a local basis by neighborhood residents.



Chapter 5: Opportunities

Chapter 5: Opportunities

A valuable park and recreation space system may include lands and soils that may not be suitable for urban uses or even some kinds of developed recreational facilities - but that can provide unique preserves, habitats, cultural, and historical associations.

A strategic approach may also include lands that are owned for other purposes, but that may be used for park and recreation activities under some conditions. Federal, state, county, utility, school, private homeowner associations, and private commercial operators, for example, own or control a variety of strategically important sites with every kind of physical and socially valuable park and recreation characteristic.

Consequently, environmental features and other strategic public and privately owned properties were inventoried that could provide park and recreation opportunities. Following is a summary of the findings.

5.1 Public ownership

Various public agencies own a considerable amount of land within or adjacent to the Lake Oswego urban growth boundary. These lands are presently used primarily for agency purposes. These lands may be available for multiple use, however, if a park and recreation activity does not interfere with the agency's primary use of the land - and if agreements can be negotiated with the property owner concerning use, development, operation costs, and responsibilities.

Oregon State

Oregon State owns land adjacent to the Lake Oswego urban growth boundary for community college purposes.

Landholding	Features	Acres
1 Portland Community College	Sylvania Campus located off Kerr Way/49th Avenue on Mount Sylvania provides student center, meeting rooms, auditorium, track, and football field for student and limited public uses.	20.0*
2 National Guard Armory	National Guard training and equipment storage facility located on South Shore Boulevard with multipurpose room and full basketball court available for public use on scheduled basis	2.0*
Total acres		22.0*

* Portion of site estimated to be usable for recreational purposes

Some portion of Portland Community College (PCC) property, particularly the adjacent undeveloped lands, could be jointly developed to provide a campus/community park with picnic grounds, trails, fields, courts, and other facilities of benefit. (PLEASE NOTE:

For the purposes of this plan, PCC land is identified only as a potential opportunity. PCC acreage has not been included in existing facility and land inventories, nor has it been used to estimate acres of land or number of facilities required to meet future needs.)

The multipurpose training facility at the National Guard Armory could also be jointly expanded to provide additional indoor activity space of use to the Guard and public - acquired for recreational use in the event the Guard is relocated.

Portland

The City of Portland owns and currently leases land within the lake Oswego urban growth boundary for waterfront industrial activities.

Landholding	Features	Acres
3 Portland Sawdust Plant	Former Oregon Iron & Steel Company property currently leased for commercial sawdust plant. Site has shoreline access to the Willamette River and Tryon Creek with barge loading terminal, docks and floats, and railroad spur.	7.0
Total acres		7.0

The property could be acquired or jointly developed to expand Roehr Park and provide an extension of the Riverfront Trail, powerboat launch ramps, kayak and canoe landings including overnight campsites, group picnic facilities and play areas, and even a potential recreation center with swimming pool, courts, and exercise facilities.

The site could also extend the trolley line to the waterfront and possibly even house a museum displaying exhibits from the Oregon Electric Railway Historical Society (OERHS) and Oswego Heritage Council about early river transport, railway, iron ore, and other developments.



City of Lake Oswego Parks and Recreation Master Plan

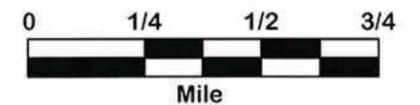
Other Public Agencies

 Other Public Agencies

- 1. Portland Community College
- 2. Portland Sawdust Plant
- 3. National Guard Armory



Geographic
Information
Services



5.2 Private ownership

Various non-profit and private entities own a considerable amount of land within the Lake Oswego urban growth boundary. Some portions of these lands may be available for public use if a park and recreation activity does not interfere with the landowner's primary use of the land and if the city can negotiate local agreements with the property owners concerning use, development, and operation costs and responsibilities.

Lakewood Center for the Arts

The Lakewood Center for the Arts owns and manages a strategically important facility within the city.

Landholding	Features	Acres
1 Lakewood Center for the Arts	Originally established as the Lakewood Theatre Company in 1952 - acquired and retrofitted the historic Lakewood School on North State Street in 1979. The center provides 3 theatres, an art gallery, music studios, dance and exercise company, arts pre-school, resident artist exhibition space, and a community meeting room with rehearsal halls, costume and scenery storage areas.	8.0
Total acres		8.0*

The Center conducts an aggressive community performing and fine arts program of activities, special events, and exhibits - operated in large part by an extensive volunteer outreach.

The Center also hosts the annual Lake Oswego Festival of the Arts - an event exhibiting more than 900 artists and a Craft Faire featuring more than 100 exhibitors. The 3-day event regularly draws up to 20,000 people from the region with activities staged in the Center and adjacent George Rogers Park.

Future events could be extended even further, possibly using Roehr Park, Millennium Park, the refurbished streetscape areas along A Avenue, and even the public spaces to be created in the downtown redevelopment project as host sites for outdoor art exhibitions, musical and theatre performances.

Marylhurst College

Marylhurst College and the Sisters of the Holy Names Convent own a sizable property located between Highway 43 and the Willamette River.

Landholding	Features	Acres
2 Marylhurst College	Private liberal arts college with complex of classrooms, meeting rooms, a large auditorium, and extensive grounds overlooking the Willamette River. Houses an extensive art gallery and collection.	80.0*
Total acres		80.0*

* Portion of site estimated to be usable for recreational purposes

Some portion of the Marylhurst College property, particularly the undeveloped lands adjacent to Highway 43 and along the riverfront, could be jointly developed to provide a

campus/community park with picnic grounds, trails, fields, courts, and other facilities of mutual benefit. (PLEASE NOTE: For the purposes of this plan, Marylhurst land is identified only as a potential opportunity. Marylhurst acreage has not been included in existing facility and land inventories, nor has it been used to estimate acres of land or number of facilities required to meet future needs.)

Railroads

The Portland & Willamette Valley Railroad (P&WVRR) (subsequently purchased by the Southern Pacific Railroad) owns significant corridors through the Lake Oswego urban growth boundary.

Landholding	Features	Acres
3 Portland & Willamette Valley - Southern Pacific Railroad (P&WVRR)	Part of the historical development of railroad lines in the Willamette Valley, the 6.8 mile, 80 foot wide right-of-way extends from Tualatin and Tigard east along the north bank of Oswego Lake to the original Willamette Shore Trolley station, then north and east across the river into central Portland.	65.9
Total acres		65.9

The regular gauge railroad is infrequently used, and could be jointly developed to provide a combination rail and hike and bike trail corridor from the Willamette River to the west end of the lake.

The Willamette Shore Trolley line could also be extended to provide service on the shared railroad track across the Willamette River to Elk Rock Island Park in Milwaukie (the original terminus of the PWVRR) and through Lake Oswego to Stella Olson Park in Sherwood with access to River Villa Park in Johnson City. The trolley could also provide more pickup stations along the route at Iron Mountain Park, Lake Grove Swim Park, and Tualatin Community Park to increase recreational access to local residents.

Lake Corporation

The Lake Corporation owns and manages Oswego Lake and its shorelines as a private homeowner resource.

Landholding	Features	Acres
4 Lake Corporation	Power boat and hand carry launch sites, hoists, permanent and temporary docking, swim parks, picnic areas, and other water access sites provided on private lake for use of corporation members only.	404.0
Total acres		404.0

Some portion of the Lake Corporation's property and facilities, particularly waterfront access sites, could be made available for special community events that celebrate the historical or festival relationship of the lake to the city's development during the logging, iron ore, riverboat, and railroad eras. These events could be of mutual benefit and interest to corporation members and city residents at large.

Lake Oswego Hunt Club

The Hunt Club owns and manages a sizable property located adjacent to Iron Mountain Natural Area and Park.

Landholding	Features	Acres
5 Lake Oswego Hunt Club	Riding stables, indoor arena, and riding trails located on Iron Mountain Boulevard adjacent to Iron Mountain Natural Area <i>for use of club members only.</i>	19.1
Total acres		19.1

Some portion of the Hunt Club property and facilities, particularly the trail system, could be made available for special community events that celebrate the historical or festival relationship of Iron Mountain to the city's development during the logging and iron ore eras. These events could be of mutual benefit and interest to corporation members and city residents at large.

In addition, the trail systems could be jointly developed between Iron Mountain and the Hunt Club to create multipurpose trail opportunities for horseback riders, hikers, and mountain bikers that would be greater than each property could realize otherwise.

Oswego Lake Country Club

The Country Club owns and manages a sizable property located adjacent to Iron Mountain Natural Area and Park.

Landholding	Features	Acres
6 Oswego Lake Country Club	18-hole golf course with driving range, pro shop, clubhouse, outdoor pool, and 2 tennis courts located on Country Club Road <i>for use of club members only.</i>	121.0
Total acres		121.0

Trail systems could be jointly developed between Iron Mountain, the Hunt Club, and the Country Club to create multipurpose trail opportunities for horseback riders, hikers, and mountain bikers that would be greater than each property could realize otherwise.

Mountain Park Homeowners Association (HOA)

Mountain Park HOA owns and manages a sizable common property located in the northwest neighborhood of the city.

Landholding	Features	Acres
7 Mountain Park HOA	Commonly owned sensitive environments and open spaces with wooded hillsides, ravines, wetlands, and 18.0 miles of hike and bike trails <i>for HOA members only.</i>	96.6
Total acres		96.6

The existing trail systems could be incorporated into the inventory to create a series of citywide hike and bike trail systems that would benefit HOA members and city residents alike.

Other private facilities available for a membership or fee

Other private agencies own land utilized for recreational facilities within or adjacent to the Lake Oswego urban growth boundaries that are available for use by private or homeowner members only.

	Facility	Features	Acres
8	Bryant Woods Neighborhood Pool	Outdoor swimming pool with sunning deck, play area, lockers, and restrooms <i>for use of members only.</i>	1.0
9	Greentree Swimming Assn	30x60-foot outdoor swimming pool with sunning deck, lockers, and restrooms <i>for use of Association members only.</i>	1.0
10	Oswego Heritage House	Non-profit history center with meeting rooms, small kitchen, and art exhibits	.5
11	Mountain Park Racquet Club	9 indoor tennis courts, 6 outdoor tennis courts (4 lighted), 3 racquetball and 1 squash court, weight and aerobics room located on Kerr Parkway <i>for use of club members only.</i>	1.0
12	Mountain Park Recreation Center	50 meter x 6 lane indoor pool with library, lounge, 2 indoor tennis courts, weight room, and game area located on Kerr Parkway <i>for use of members only.</i>	2.7
13	Mount Sylvania Park	Playground and picnic tables <i>for use of HOA members only.</i>	0.5
14	River's Edge Athletic Club	30x60-foot indoor pool with 0.25 outdoor running track, weight room, 4 racquetball courts, and gym located on Childs Road <i>for use of club members only.</i>	1.0
15	St Vincent Heath and Fitness Center	Weight and aerobics rooms <i>for fitness members only.</i>	0.5
16	Trail's End Fitness	Weight and aerobics rooms located on Oswego Pointe Drive <i>for use of club members only.</i>	0.2

Total acres **8.9**
 * Estimated acreage.

These properties contain valuable recreational facilities. Some of these facilities are accessible by members only, some on a user fee basis. While some of these properties may remain principally for the benefit of the private members, portions of these privately owned properties may also provide perimeter public trail systems in adjacent road rights-of-way and/or conference facilities for public meetings and events.



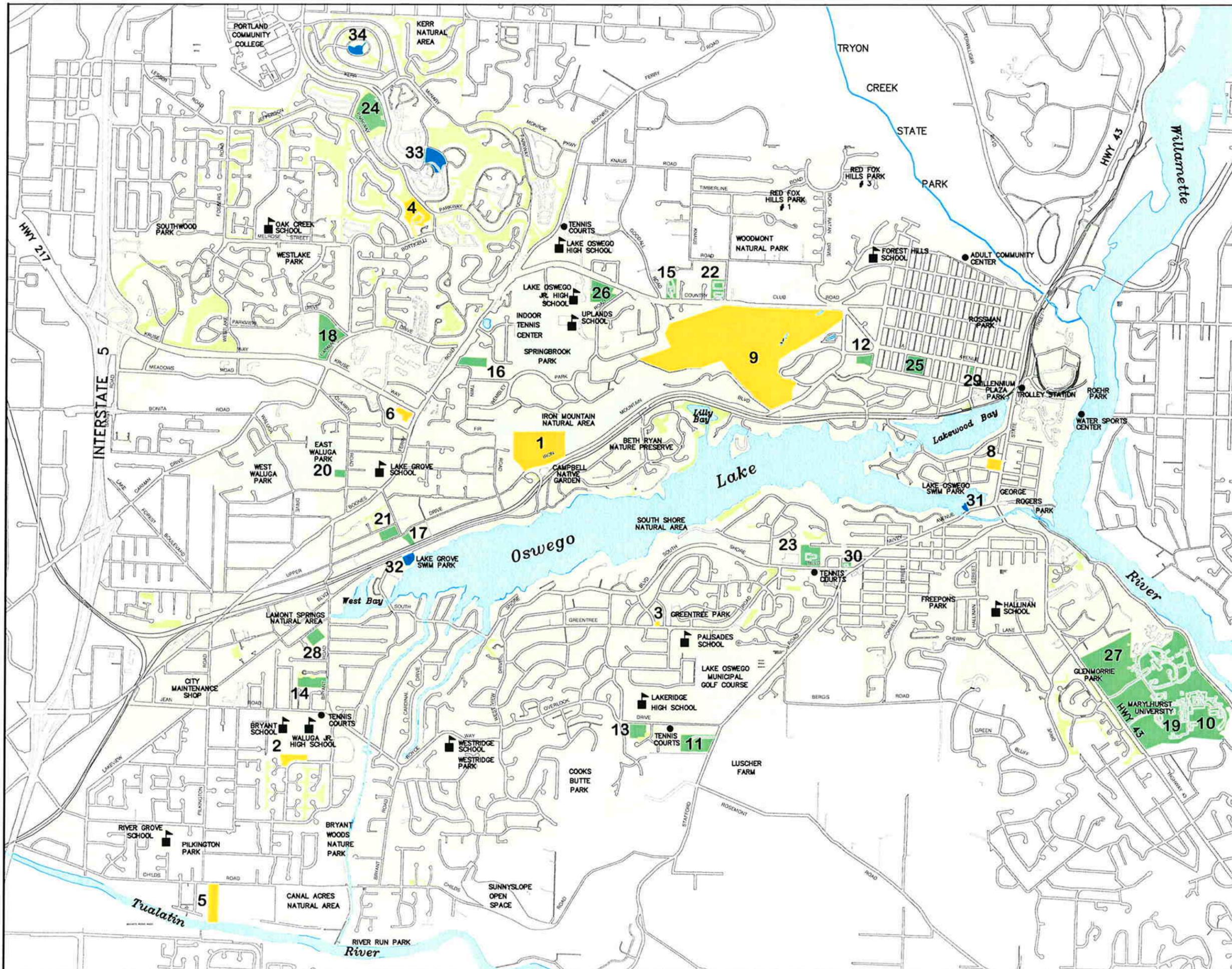
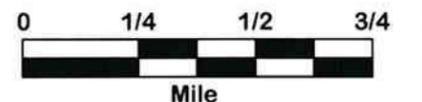
City of Lake Oswego Parks and Recreation Master Plan

Private Ownerships

- Public use for a fee / membership**
 1. Lake Oswego Hunt Club
 2. Bryant Woods Neighborhood Pool
 3. Greentree Swimming Association
 4. Mountain Park Racquet Club
 5. River's Edge Athletic Club
 6. St. Vincent Health and Fitness Center
 7. Trail's End Fitness
 8. Lakewood Center for the Arts
 9. Oswego Lake Country Club

- Available for special use**
 10. Marylhurst University
 11. Bethlehem Church
 12. Christ Episcopal Church
 13. Church of Jesus Christ LDS
 14. Crossroads Christian Center
 15. First Church of Christ
 16. Hope Community Church
 17. House of Worship
 18. Lake Bible Church
 19. Lake Chapel Foursquare Church
 20. Lake Grove Christian Church
 21. Lake Grove Presbyterian Church
 22. Lake Oswego United Church
 23. Lake Oswego United Methodist
 24. Mountain Park Church
 25. Our Lady of the Lake
 26. Our Savior's Lutheran Church
 27. Sisters of the Holy Na,es
 28. Triumphant King Lutheran
 29. Unity World Healing Center
 30. Westside Baptist Church

- Not available for public use**
 31. Lake Corporation
 32. Lake Grove Swim Park
 33. Mountain Park Recreation Center
 34. Mount Sylvania Park



Private facilities - religious institutions

Religious organizations have also developed sites and facilities with significant recreational opportunity within the Lake Oswego urban growth boundary.

	Facility	Features	Nmbr
1	Christ Episcopal Church	Religious facility located on Chandler Road with preschool, meeting rooms, and other spaces.	1
2	Hope Community Church	Religious facility located on Boones Ferry Road with preschool, meeting rooms, and other spaces.	1
3	Lake Bible Church	Religious facility located on Kruse Way with preschool programs and meeting room.	1
4	Lake Grove Christian Church	Religious located on Quarry Road with meeting room, kitchen, classrooms, and other facilities.	1
5	Lake Grove Presbyterian	Religious facility located on Sunset Drive with preschool facilities and programs.	1
6	Lake Oswego United Methodist	Religious facility located on South Shore Boulevard with preschool programs, meeting room, and other facilities.	1
7	Mountain Park Church	Religious facility located on McNary Parkway with preschool programs, meeting room and other facilities.	1
8	Our Lady of the Lake	Religious located on 8th Street & A Avenue with preschool programs, large meeting room, parish, playground, playfield, and other facilities.	1
9	Our Savior's Lutheran Church	Religious facility located on Country Club Road with meeting room and other facilities.	1
10	Triumphant King Lutheran	Religious facility located on Lamont Way with preschool programs.	1
	Total facilities		10



City of Lake Oswego Parks and Recreation Master Plan

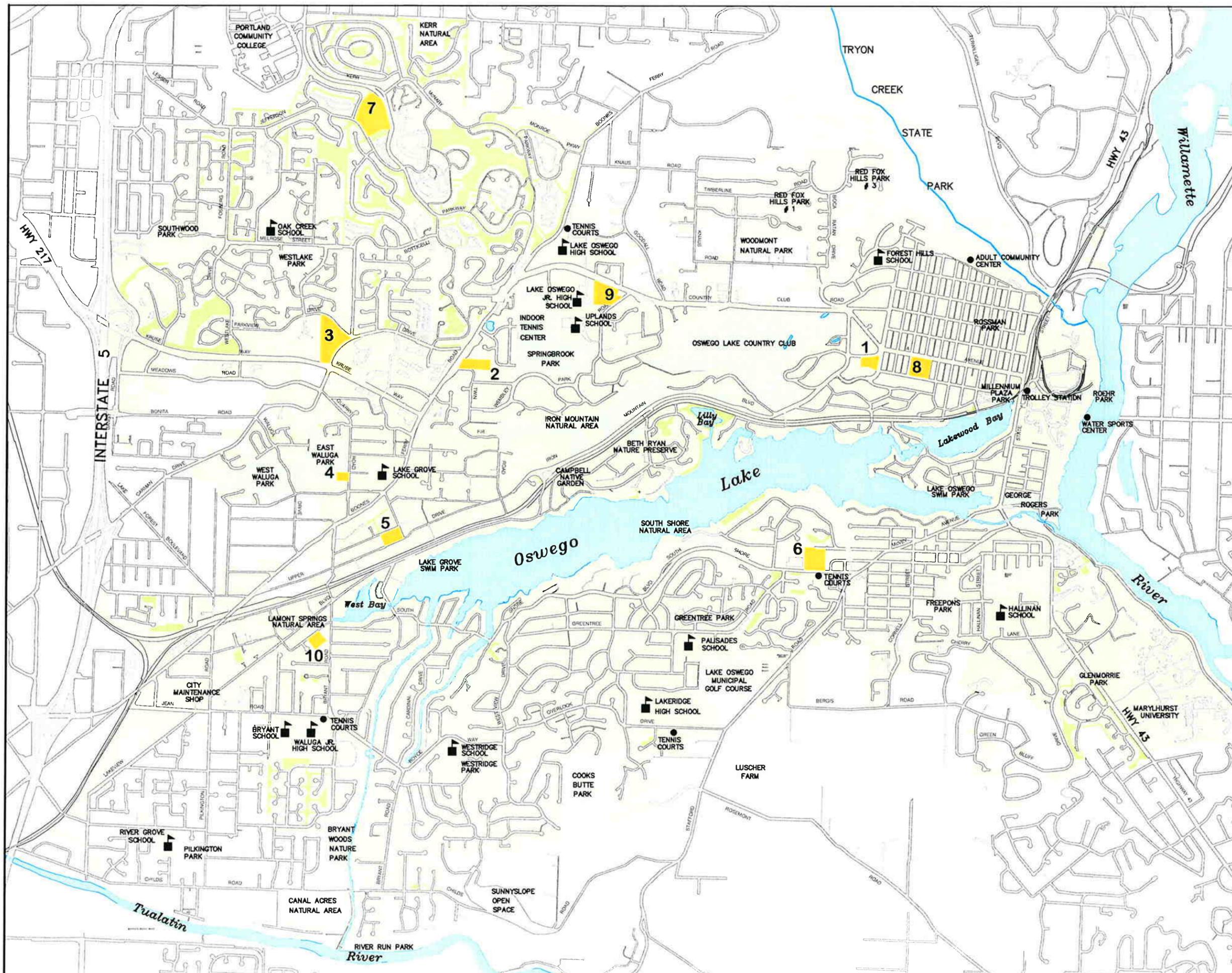
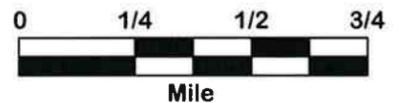
Churches with daycare, meeting rooms, recreation facilities

 Church property

1. Christ Episcopal Church
2. Hope Community Church
3. Lake Bible Church
4. Lake Grove Christian Church
5. Lake Grove Presbyterian Church
6. LO United Methodist Church
7. Mountain Park Church
8. Our Lady of the Lake
9. Our Savior's Lutheran Church
10. Triumphant King Church



Geographic
Information
Services



Commercial facilities available for a fee

Private commercial agencies also own properties with a variety of meeting rooms and other spaces that may be made available for public use for a fee.

	Facility	Features	Nmbr
1	Crowne Plaza Hotel	Commercial hotel located on Kruse Oaks Boulevard with complex of 5 meeting rooms available on a rental basis.	1
2	Fairfield Inn by Marriott	Commercial hotel located on Meadows Road with 2 meeting room facilities available on a rental basis.	1
3	Lakeshore Motor Hotel	Commercial hotel located on State Street with outdoor swimming pool for use of motel occupants only.	0
4	Phoenix Inn	Commercial hotel located on Bangy Road with 2 meeting room facilities available on a rental basis.	1
5	Residence Inn	Commercial hotel located on Bangy Road with 1 small meeting room facility available on a rental basis.	1
Total facilities			4

These properties contain valuable recreational facilities. Some of these facilities are accessible by motel occupants only, some on a user fee basis. While some of these properties may remain principally for the benefit of the motel occupants, portions of these privately owned properties may also provide perimeter public trail systems and/or conference facilities for public meetings and events.



City of Lake Oswego Parks and Recreation Master Plan

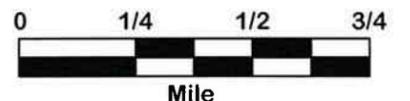
Hotels and motels with meeting facilities

 Hotels and motels

1. Crowne Plaza
2. Fairfield Inn by Marriott
3. Lakeshore Motor Hotel
4. Phoenix Inn
5. Residence Inn



Geographic
Information
Services



5.3 Socially significant lands and areas

Some environmental values are socially rather than physically defined, but may be as significant to the park and recreation experience as physical features or developed facilities. These properties are owned by a variety of public and private parties, but could be preserved under a variety of land use, easements, or acquisitions if appropriate.

	Facility	Features	Acres
1	Oregon Iron Company mineshafts	Iron Mountain Natural Area - includes historic iron ore mine and remnants of the water tower and platform adjacent to the mineshafts.	38.7
2	Oregon Iron Company stack	George Rogers Park at the end of Furnace and Green Street - remnants of the first 1867 pig iron smelter. Ore was mined from Iron Mountain, transported to the site by oxen, and later by narrow gauge railroad, and power by water from Oswego Creek.	1.0
3	Luscher Farm	Historic Taylor farm with farmhouse, greenhouse, and barn; and Luscher farm with farmhouse, garage and bunkhouse, chicken coop, hog barn, workshop/pump house, and barn.	Na
4	Willamette Shore Trolley	Established in 1885-1887 as the Portland & Willamette Valley Railroad, operating as a regular gauge trolley line in 1888. The line was later purchased by the Southern Pacific Railroad, electrified in 1914, and peaked in 1920 running 64 "Red Electrics" on a daily basis.	Na
5	Oswego Fire Bell	Lake Oswego Fire Station at 3rd Street and B Avenue - a school bell, mounted in 1910 on a steel water tower, to provide fire alarm for the first bucket and ladder brigade.	Na
6	Old Peg Tree	North side of Leonard Street between Durham & Furnace Streets - lanterns were hung on a peg on this tree to provide light for early meetings in Old Town.	Na
7	Carman-Wilmot Home	3811 Carman Drive - built in 1860, first house in the city to have running water supplied by a spring.	Na
8	Methodist Episcopal Church	156 Greenwood Road - built in 1894 as a one room building on Church Street, moved and erected over a foundation with a steeple.	Na
9	Carter Home	17901 Stafford Road - built in 1881, is the finest example of the Italianate style in the city.	Na

10	Odd Fellows Hall	295 Durham Street - built in 1890 to accommodate the fraternal organization's meetings and dances on the second floor.	Na
11	Meridian United Church of Christ	Stafford & Boekman Road - built in 1880 as "Frogpond Church" or "Deutsche Reformerte Meridien Gemeinde" for settlers.	Na
12	Lake Oswego Giant Sequoia	A Avenue and 5th Street - the city Christmas tree dedicated in memory of Mary Goodall Ramsey, 1899-1989, former City Councilor and founder of the Oswego Heritage Council and Arts Festival.	Na
13	Durham's Mill	East end of bridge across Oswego (Sucker) Creek on McVey Avenue - site of the city's first industry, a sawmill, in 1850 by Albert Alonzo Durham on this portion of his 637 donation Land Grant which included Old Town and much of East Oswego.	Na
14	Trullinger Cast Pig Iron Street Marker	Ladd and Durham Streets - John Corse Trullinger buried a pig iron monument at this site when filing the first Oswego town plat of record in 1867. The iron pig was the first casting from the Oregon Iron Company.	Na
15	Durham Home	Durham & Leonard Streets - built in 1849 to house Albert Alonzo Durham, the first white settler in the city and founder of the sawmill.	Na
16	Koehler House	2nd Street and B Avenue - built in 1907 for Henry Koehler, town blacksmith, carriage builder, and Sheriff of Clackamas County. The second floor of the house, "Koehler's Hall" hosted square dances, socials, and the city's first city hall.	Na
17	Oregon Iron & Steel Company	Front entry wall of Ram Brew Pub on Oswego Pointe Drive - location of 1888 Oregon Iron & Steel smelter, a 160-foot chimney visible for 4 miles, replaced the 1865 smelter located at the mouth of Oswego Creek - the first smelter in the Pacific Coast.	Na
18	Lakewood School (Oswego Grammar School)	State Street - Colonial Revival style built in 1928 replacing the first public school built on the site in 1893. Acquired in 1979 by the	8.0

		Lakewood Community Theatre to provide theaters, studios, and gallery. The building is the oldest public building in continuous use in the city.	
19	Murphy Company Building (Oswego Heritage House)	398 10th Street at A Avenue - built in 1920 by Paul Murphy in the Colonial Revival style to house his real estate development and sales business. Acquired and restored in 1997 to house Oswego Heritage Council historic archives, library, museum, office, and meeting space.	1.0
20	Sacred Heart Catholic Church	E Avenue & 1st Street - built in 1890, the first church in the city and the sole surviving church from the 19th century. The building's Gothic Revival style includes gable roof, pointed arched windows, and the transom entry doors - restored by the current residential occupants.	Na
21	Oswego Pioneer Cemetery	Stafford Road - donated in 1881 by George Prosser to the Oregon Iron & Steel Company, then to the Methodist Church, then the Independent Order of Odd Fellows, and ultimately to the Oswego Pioneer Cemetery Association in 1977. City's first mayors, iron workers, and other pioneer families are interred on the site.	5.0
22	Bryant Homestead	Bryant Road and Jean Road - the original 1853 home site of Charles Wesley Bryant who traveled to the city by wagon train.	Na
23	Marylhurst College	Between Old River Road and Highway 43 - founded as a religious institution in 1859 and as a liberal arts college in 1893 on bank of Willamette River. Campus contains numerous historic educational buildings and facilities.	80.0
24	George Rogers House	Located on Ladd St. - the home of George Manuel Rodrigues, active civic leader.	Na
25	Hallinan House	Located on Oak St. - the home of long time pioneer family	Na
Total sites*			130.7

- Sites include portions providing historical resource value.



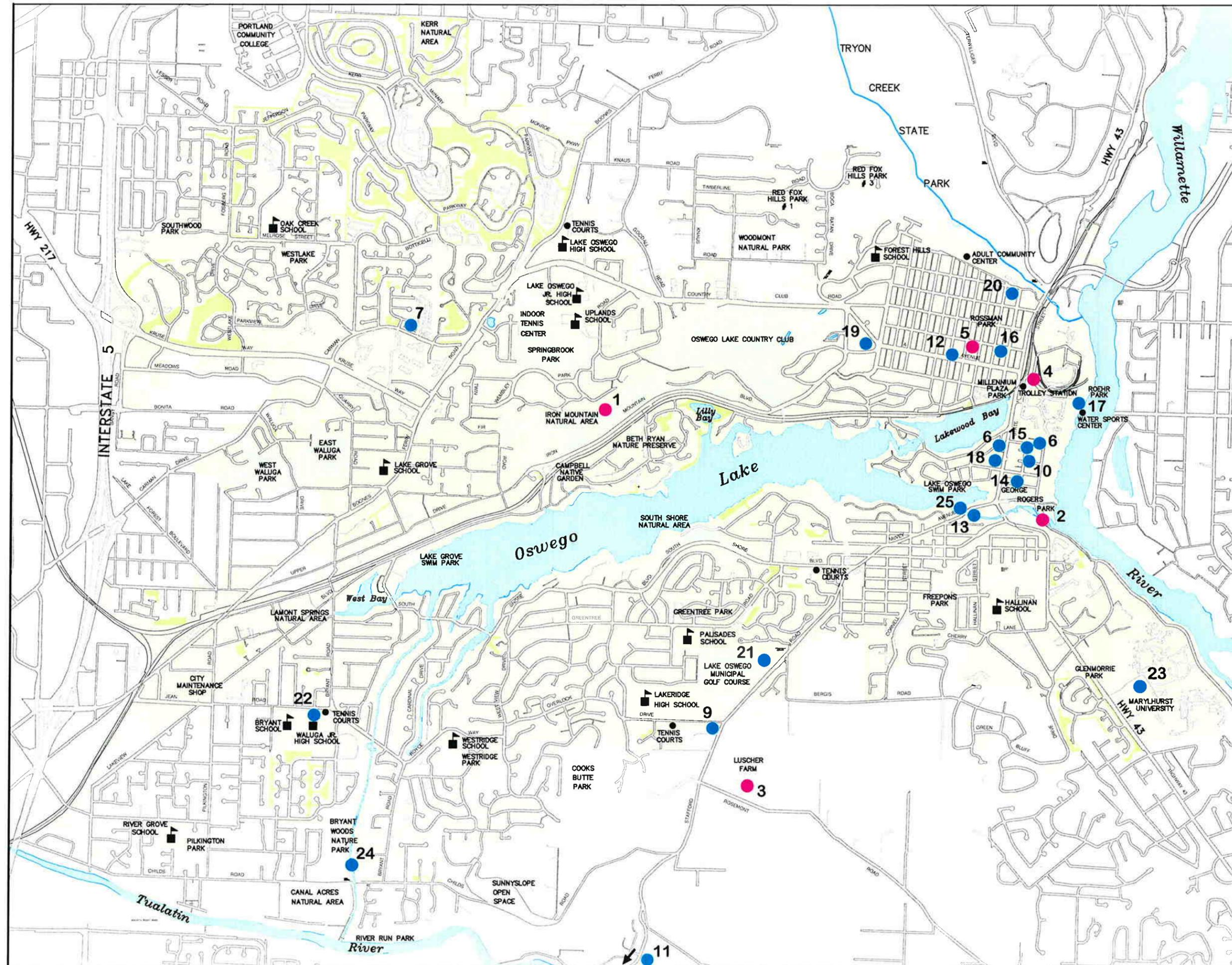
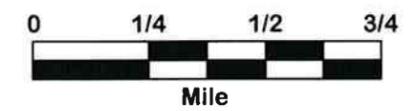
City of Lake Oswego Parks and Recreation Master Plan

Socially Significant Lands and Areas

- Designated - Public Ownership
- Designated - Private Ownership

- Social Landmarks**
1. Oregon Iron Company Mineshafts
 2. Oregon Iron Company Smelter
 3. Luscher Farm
 4. Willamette Shore Trolley
 5. Oswego Fire Bell
 6. Old Peg Tree
 7. Carman-Wilmot Home
 8. Methodist Episcopal
 9. Carter Home
 10. Odd Fellows Hall
 11. Meridian United Church of Christ
 12. Lake Oswego Giant Sequoia
 13. Durham's Mill
 14. Trullinger Cast Pig Iron Marker
 15. Durham House
 16. Koehler House
 17. Oregon Iron and Steel Company
 18. Lakewood School
 19. Murphy Company Building
 20. Sacred Heart Catholic Church
 21. Oswego Pioneer Cemetery
 22. Bryant Homestead
 23. Marylhurst University

- Made Environments**
24. Oswego Canal
 25. Oswego Dam



These historic properties have trail, picnic and related park and recreation opportunities. Using such historic properties for park and recreation purposes can aid in their protection by providing viable uses, economic value, and settings of visual and functional importance.

More sites may be afforded importance and protection where trail, park or recreational facilities are sited or developed to provide an historical or cultural landmark a viable use, economic value or setting of visual and functional importance.

Made environments

Major earthwork or resource oriented constructions created by historical industrial and commercial developments and/or high technology innovations can sometimes create features with as much environmental interest or value as natural physical features or cultural facilities.

Landholding	Features	Acres
24 Oswego Canal	The Tualatin River Navigation and Manufacturing Company was formed in 1869 to build a canal connecting Oswego Lake to the Tualatin River to facilitate the transporting of logs, farm products, and other commodities to Portland markets. The canal was completed in 1872, raising the lake and increasing its length from 2.75 to 3.5 miles. Mule teams and laborers drug logs through the canal to the river, then to the smelter and sawmills located on Oswego Creek and Pointe.	Na
25 Oswego Dam	Oswego Creek was dammed in 1857 to provide water power for Durham's sawmill, and later to provide power for the Oregon Iron & Steel Company smelters.	Na
Total acres		Na

Some manmade constructions are of the same value as natural creations. The dam and canal system created of Oswego Lake is an artificial freshwater course created to provide power and later transport between farms, logging camps, and the Tualatin River. The waterways possess the same natural features as any natural water body.

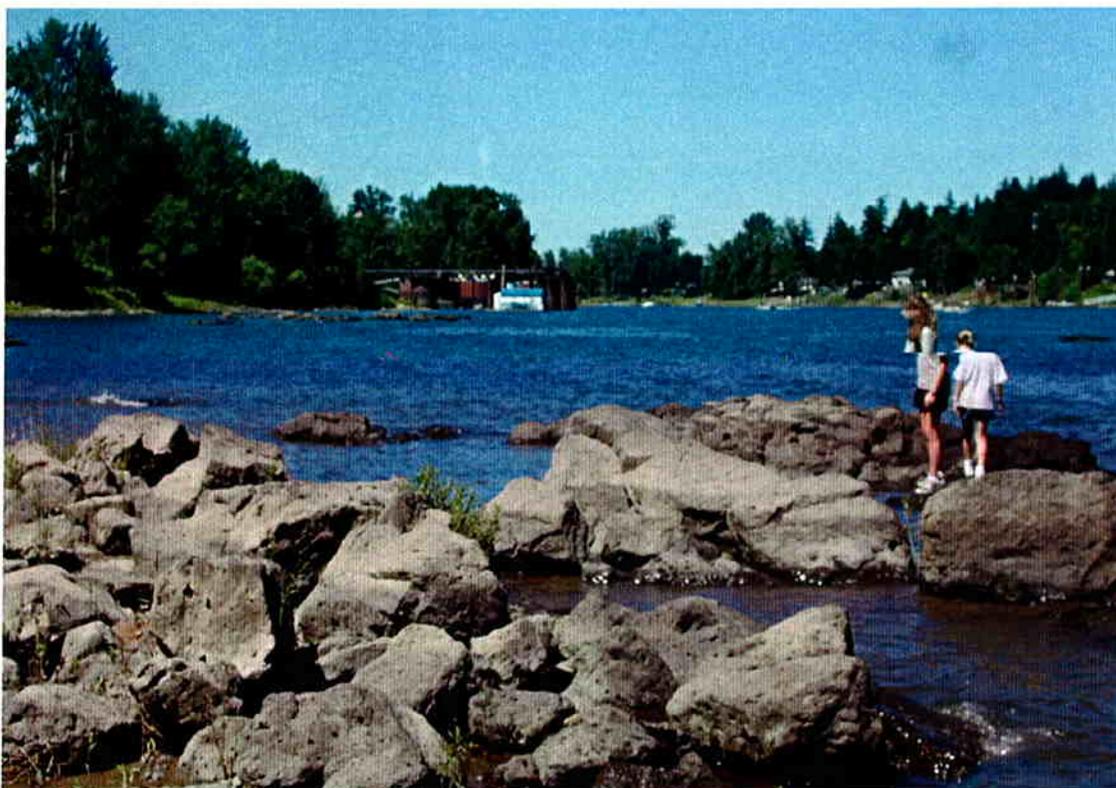
Other manmade constructions are very different in scope but utilize natural resources or materials in such unique ways as to be interesting in their own right. The Willamette Shore Trolley trestles and tunnel, and the remaining iron ore mineshafts, water tower, and smelters are examples that should be preserved and possibly provided wider public access.

5.4 Conclusions

- Strategically important sites - are owned or controlled by federal, state, city, school, private homeowner associations, and private commercial operators with every kind of physical and socially valuable park, recreational, and open space characteristic.
- A valuable park and recreation system includes lands and soils that may not be suitable for urban uses - or even some kinds of developed recreational facilities, but

which can provide unique preserves, habitats, cultural, and historical associations. These combined social and physical attributes provide a balanced dimension to the park and recreation experience.

- A quality park and recreation system does not have to be implemented strictly by public monies or purchase - but by the creative interplay of public and private market resources using a variety of techniques including leases, easements, tax incentives, design and development innovations, and enlightened private property interests. Past park and recreation strategies may have relied too heavily on purchase approaches and not enough on lower cost, but possibly more cost-effective alternatives.



Chapter 6: Land and facility demand

Chapter 6: Land and facility demand

Chapter 6 evaluates the demand for park and recreation lands and facilities in Lake Oswego over the next 15-year period.

This chapter is organized into "Land requirements" and "Facility requirements." The methodologies used to estimate land or facility demand are explained within each section and are based upon the use of population ratios, participation models, level-of-service (LOS) measurements, and/or questionnaire survey methodologies. Appendix, page APP 67 explains how to read the demand charts contained within this chapter.

Development priorities are indicated for each land and facility requirement by stating that development may be needed within the "near future," meaning that development may occur within 6-10 years, or "eventually" meaning 10-15 years.

6.1 Land requirements

The following discussion addresses the methodology used to estimate land requirements and the amount of land needed to meet demand for parks and recreation services in Lake Oswego.

Ratio standards - the demand for park and recreation lands can be estimated using a ratio of a required acreage to a standard unit of population, like 3.1 acres of athletic fields and playgrounds per 1,000 residents. The ratio method is relatively simple to compute and can be compared with national or local park and recreation standards.

However, the method cannot account for unique age, social or interest characteristics that may affect the park and recreation activity patterns within a specific community. Nor can the method compensate for unique climatic or environmental features that may cause seasonal or geographical variations in park and recreation use patterns.

The ratio method is frequently used to estimate land requirements. However, a number of factors may significantly influence the amount of land a community may wish to set-aside for park and facility purposes. Such factors may include the presence of unsuitable soils, scenic viewpoints, historical or cultural assets that may increase set-asides, but not affect the ratio of required land to facility requirements.

The most widely used park land ratios have been formulated by the National Recreation & Park Association (NRPA) using standards that have been developed over time by major park and recreation departments across the country. **The ratios identified in this report include all lands and facilities provided by public sponsors including city, school, county, state, federal agencies, and private operators within or available to each measuring jurisdiction. NOTE: For the purposes of this plan, PCC and Marylhurst land has not been included in existing inventories, nor has it been used to estimate acres required to meet future needs.**

Total park lands

According to National Recreation & Park Association (NRPA) standards, a park and recreation system should provide approximately 34.45 acres of all types of park land per every 1,000 persons in the population.

	Standards	Existing supply		Recmnd
	NRPA	LO	All total	Add/std*
Acres of park land		675.1	2,341.5	16.0
Ratio per 1,000**	34.45	19.68	68.27	60.05

**Identifies additional land or facilities recommended to be added and the level-of-service per 1,000 persons that will result from the addition and the projected population increase over the next 15-year planning period. The level-of-service ratio will decline due to additional population increase if no additional land or facilities are recommended.*

*** Ratio is expressed per 1,000 residents within Lake Oswego (population of 34,300) under LO and for all public and private facilities under All total and Recommended additional standard.*

By comparison, Lake Oswego owns 675.1 acres of park and open space land or about 19.76 acres per every 1,000 residents of the city. All public and private agencies including Lake Oswego School District, Oregon State Parks, Portland Community College, the National Guard, and other public and private organizations own 2,341.5 acres or about 68.27 acres per every 1,000 persons within the urban growth boundary.

Generally, the city, school district, and state combined provide a significant amount of land for park and recreation interests within the urban growth boundary to satisfy most local and significant regional interests.

However, even though significant, the present allocation is not balanced between different types of park and recreation land requirements. Another 16.0 acres for a total equal to a ratio of 60.05 acres per 1,000 residents should be acquired to meet needs in the near future. The resulting standard should be sufficient to provide for local needs and to conserve important regional attributes within the urbanizing areas. **Please note that should lands be used in a manner other than recommended in this plan, additional lands may need to be acquired to meet future demand.**

Wildlife habitat/resource conservancies

Open space preservation or resource conservancies are designed to protect and manage a natural and/or cultural feature, environment or facility - such as a wetland or unique habitat, a natural landmark or a unique cultural setting. By definition, resource conservancies are defined by areas of natural quality for nature-oriented outdoor recreation, such as viewing and studying nature, wildlife habitat, and conservation. Open space preservations or resource conservancies should be located to encompass diverse or unique natural resources, such as lakes, streams, marshes, flora, fauna, and topography. Recreational use may be a secondary, non-intrusive part of the property - such as an interpretative trail, viewpoint, exhibit signage, picnic area or other feature.

According to the NRPA, a suitable standard for resource conservancies is about 10.00 acres per every 1,000 residents. In practice, however, there are no minimum or maximum standards concerning conservancies - a site should provide whatever is necessary to protect the resource.

Existing and Proposed Level-of-Service Standards ¹ (ELOS/PLOS - local/regional)

2000 population in city: 34,300
2015 population in city: 39,262

Land	units	2000 inventory			ELOS/city		PLOS		PNW			NRPA		
		City	All public	All public/private	City	All public	All public/private	City fcly addns	All public/private	Participation model per 1,000 population			Stnds /1000	
										1990	2000	2010	1983	
1	resource conservancy	acres	525.2	1,130.2	1,800.3	15.31	32.95	52.49	45.85					10.00
2	resource activities	acres	20.3	64.3	68.3	0.59	1.87	1.99	10.0	1.99				16.50
3	linear trails	acres	30.2	30.2	106.1	0.88	0.88	3.09	2.0	2.75				4.85
4	athletic flds/plygrnds	acres	44.1	109.6	130.1	1.29	3.20	3.79		3.31				3.10
5	rcn centers/pools	acres	4.0	11.0	46.4	0.12	0.32	1.35	2.0	1.23				
6	special use facilities	acres	46.3	51.3	185.3	1.35	1.50	5.40	2.0	4.77				
7	support facilities	acres	5.0	5.0	5.0	0.15	0.15	0.15		0.13				
Subtotal for land			675.1	1,401.6	2,341.5	19.68	40.86	68.27	16.0	60.05				34.45

* NOTE: The plan proposes an additional 16 acres of land be purchased to meet future demand based upon the assumption that existing city-owned land is available for use in the future as outlined in the plan. Should this land be used in a manner other than recommended, additional lands may need to be acquired to meet future demand.

Facilities

1 a	picnic tables	tables	63	87	113	1.84	2.54	3.29	83	4.99	1.77	1.71	1.67	na
b	picnic shelters	shelters	7	7	7	0.20	0.20	0.20	11	0.46				
2 a	swimming beach	sq ft	3	5	6	0.09	0.15	0.17	1	0.18				
b	swimming beach	parking	0	0	0	0.00	0.00	0.00		0.00	2.14	2.09	1.99	na
3 a	powerboat launch ramps	each	0	1	2	0.00	0.03	0.06	2	0.10				
b	handcarry launch sites	each	3	3	9	0.09	0.09	0.26	2	0.28				
c	floating platforms	sq ft	4000	4000	4000	116.62	116.62	116.62	2000	152.82				
d	docks/piers	sq ft	2000	2000	2000	58.31	58.31	58.31	1000	76.41				
e	boat slips	sq ft	4	4	4	0.12	0.12	0.12	4	0.20				
4	power boat trailheads	parking	0	0	0	0.00	0.00	0.00		0.00				
5 a	tent camping	cmpste	0	0	0	0.00	0.00	0.00		0.00	1.28	1.21	1.15	na
b	vehicle camping	cmpste	0	0	0	0.00	0.00	0.00		0.00	2.00	2.02	2.03	na
6 a	walking park-asphalt	miles	4.0	4.0	4.0	0.12	0.12	0.12	5.6	0.24	0.13	0.13	0.13	na
b	walking park-dirt	miles	7.3	7.3	7.3	0.21	0.21	0.21	7.2	0.37				
7 a	walking trail-asphalt	miles	25.3	28.3	46.3	0.74	0.83	1.35	22.3	1.75	0.15	0.15	0.14	0.50
b	walking trail-dirt	miles	0.0	8.0	8.0	0.00	0.23	0.23		0.20				
	streetscape-concrete gateways	miles	0.0	0.0	0.0	0.00	0.00	0.00	1.4	0.04				
		each	0	0	0	0.00	0.00	0.00	11	0.28				
8 a	backpacking trail	miles	0.0	0.0	0.0	0.00	0.00	0.00		0.00				
9 a	bicycling trail-asphalt	miles	1.0	4.0	22.0	0.03	0.12	0.64	9.0	0.79	0.30	0.30	0.29	0.50
b	bicycling trail-dirt	miles	0.0	0.0	0.0	0.00	0.00	0.00		0.00				
c	bicycling trailhead	parking	0	1	1	0.00	0.03	0.03	5	0.15				
10 a	bicycling road-marked	miles	29.9	29.9	29.9	0.87	0.87	0.87	11.6	1.06	0.03	0.03	0.03	na
b	bicycling road-unmarked	miles	0.0	0.0	0.0	0.00	0.00	0.00		0.00				
11 a	equestrian trail	miles	0.0	3.5	4.3	0.00	0.10	0.12	3.4	0.19	0.12	0.11	0.11	na
b	equestrian trailhead	parking	0	1	2	0.00	0.03	0.06	1	0.08				
12 a	playgrounds covered	plygrnd	0	0	0	0.00	0.00	0.00		0.00				
b	playgrounds uncovered	plygrnd	12	22	24	0.35	0.64	0.70	10	0.87	0.60	0.56	0.53	
13 a	play areas-not improved	acres	0.0	0.0	0.0	0.00	0.00	0.00		0.00				
b	play areas-improved	acres	0.0	0.0	0.0	0.00	0.00	0.00		0.00				
14	skateboard court	each	1	1	1	0.03	0.03	0.03	2	0.08				
15	handball-4 wall	court	0	0	0	0.00	0.00	0.00		0.00				
16 a	basketball-covered	court	0	16	16	0.00	0.47	0.47		0.41				
b	basketball-uncovered	court	3	5	5	0.09	0.15	0.15		0.13	0.10	0.10	0.09	0.30
17 a	volleyball-covered	court	0	0	0	0.00	0.00	0.00		0.00				
b	volleyball-uncovered	court	0	0	0	0.00	0.00	0.00		0.00				0.20
c	volleyball-sand	court	1	1	2	0.03	0.03	0.06	12	0.36				

Land	units	2000 Inventory			ELOS/city		PLOS		PNW			NRPA Stnds /1000 1983		
		City	All public	All public/ private	City	All public	All public/ private	City fcilty addns	All public/ private	Participation model per 1,000 population				
										1990	2000		2010	
18 a	tennis-indoor	court	4	4	15	0.12	0.12	0.44		0.38	0.24	0.23	0.22	0.50
b	tennis-outdoor lighted	court	0	3	7	0.00	0.09	0.20		0.18				
c	tennis-outdoor unlighted	court	5	20	24	0.15	0.58	0.70		0.61				
19 a	football-regulation	field	0	6	6	0.00	0.17	0.17		0.15				0.05
b	football-nonregulation	field	0	0	0	0.00	0.00	0.00		0.00				
20 a	soccer-regulation-lighted	field	2	5	5	0.06	0.15	0.15	3	0.20	0.32	0.31	0.29	0.10
b	soccer-regulation-unlighted	field	1	7	7	0.03	0.20	0.20	4	0.28				
c	soccer-youth lighted	field	0	3	3	0.00	0.09	0.09		0.08				
d	soccer-youth unlighted	field	0	3	3	0.00	0.09	0.09	1	0.10				
21	field hockey/lacrosse	field	0	0	0	0.00	0.00	0.00		0.00				0.05
22 a	ballfield-300+grss/lighted	field	3	5	5	0.09	0.15	0.15	3	0.20	0.53	0.52	0.49	0.40
b	ballfield-300+grss/unlighted	field	0	1	1	0.00	0.03	0.03		0.03				
c	ballfield-250+dir/lighted	field	0	0	0	0.00	0.00	0.00	1	0.03				
d	ballfield-250+dir/unlighted	field	0	0	0	0.00	0.00	0.00	4	0.10				
e	ballfield-nonregulation	field	0	0	0	0.00	0.00	0.00		0.00				
f	ballfield-200+ lighted	field	4	9	9	0.12	0.26	0.26		0.23				
g	ballfield-200 unlighted	field	0	9	9	0.00	0.26	0.26		0.23				
23	parcourse	stns	0	0	0	0.00	0.00	0.00		0.00				
24 a	jogging track-surface	miles	0.00	0.75	0.75	0.00	0.02	0.02		0.02	0.02	0.02	0.02	0.05
b	jogging track-dirt	miles	0.00	0.00	0.00	0.00	0.00	0.00		0.00				
25 a	swimming pool-indoor	sq ft	0	3000	6200	0.00	87.46	180.76	9000	387.14	541	527	503	0.05
b	swimming pool-outdoor	sq ft	0	0	6000	0.00	0.00	174.93		152.82				
26	indoor gymnasium	sq ft	0	98000	123000	0.00	2857.14	3586.01	10000	3387.50				
27	physical conditioning	sq ft	0	4000	12400	0.00	116.62	361.52	4000	417.71				
28 a	racquetball-indoor	each/sf	0	0	0	0.00	0.00	0.00		0.00				
b	handball-indoor	each/sf	0	0	0	0.00	0.00	0.00		0.00				
29	arts/crafts room ²	sq ft	2000	18500	18500	58.31	539.36	539.36	4000	573.07				
30	class/meeting room ²	sq ft	2500	15600	31600	72.89	454.81	921.28	2000	855.79				
31	auditorium ²	sq ft	5000	12200	30400	145.77	355.69	886.30	4000	876.17				
32	kitchen facilities ²	sq ft	800	800	2000	23.32	23.32	58.31	800	71.32				
33	dining facilities ²	sq ft	0	0	0	0.00	0.00	0.00		0.00				
34 a	daycare/nursery	sq ft	0	0	20400	0.00	0.00	594.75	1200	550.15				
b	pre/after-school	sq ft	0	Na	0	0.00	0.00	0.00		0.00				
c	senior/teen ²	sq ft	8000	8000	8000	233.24	233.24	233.24	2000	254.70				
35 a	community center admin	sq ft	0	0	0	0.00	0.00	0.00		0.00				
b	community center other	sq ft	0	0	0	0.00	0.00	0.00		0.00				
36 a	nature center	sq ft	0	2000	2000	0.00	58.31	58.31	5000	178.29				
b	museum	sq ft	0	0	3000	0.00	0.00	87.46	7400	264.89				
37 a	golf-par 3/18 hole	holes	18	18	36	0.52	0.52	1.05		0.92	0.41	0.42	0.43	0.13
b	driving range	tees	1	1	2	0.03	0.03	0.06		0.05				
c	golf-clubhouse	sq ft	3000	3000	6000	87.46	87.46	174.93		152.82				
d	golf-maintenance	sq ft	1000	1000	2500	29.15	29.15	72.89		63.67				
38 a	gun range-outdoor	target	0	0	0	0.00	0.00	0.00		0.00	0.14	0.13	0.13	0.02
b	archery range-outdoor	target	0	0	0	0.00	0.00	0.00		0.00	0.06	0.06	0.05	0.02
39	amphitheater	each	3000	4200	4200	87.46	122.45	122.45	3000	183.38				0.01
40 a	parks administration	sq ft	4000	4000	4000	116.62	116.62	116.62	1200	132.44				
b	parks maintenance bldg	sq ft	6000	6000	6000	174.93	174.93	174.93	2600	219.04				
c	parks shop yard/nursery	sq ft	0	0	0	0.00	0.00	0.00		0.00				
d	parks caretaker houses	each/sf	0	0	0	0.00	0.00	0.00		0.00				
e	restrooms-permanent	fixtures	52	60	76	1.52	1.75	2.22	64	3.57				
f	restrooms-temporary	each	0	0	0	0.00	0.00	0.00		0.00				
Subtotal facility units			41554	186694	292722	1211.50	5442.96	8534.18	59484	8970.68				

1 - The ELOS/PLOS spreadsheet shows the existing level of service per 1000 people within the current parks system. It also indicates the land or facilities to be added to meet current standards (Proposed Level of Service additions - PLOS). In some cases, the consultant has recommended a higher PLOS standard to meet greater demand in Lake Oswego or a lower PLOS to reflect changing regional and/or national standards.

2 - Current inventory is limited only to adult use at the Adult Community Center.

Source: Recreation, Parks & Open Space Standards & Guidelines, National Recreation & Park Association (NRPA), 1983.

Wildlife habitat/resource conservancies (cont.)

	Standards		Existing supply		Recmnd
	NRPA		LO	All total	Add/std
Acres of park land			525.2	1,800.3	0.0
Ratio per 1,000	10.00		15.31	52.49	45.85

City park and open space lands combined presently provide 15.31 acres of open space and resource conservancies per 1,000 Lake Oswego residents. All other agencies combined provide 52.49 acres per 1,000 city residents.

These relatively high ratios include the extensive resource landholdings of Tryon Creek State Park, Portland Community College, Marylhurst College, and numerous homeowner association commonly owned properties.

Consequently, the present set aside of conservation land may be sufficient to provide for habitat, natural areas, and other open space objectives if linked into effective natural systems.

Resource activities

Resource activities are defined by areas of natural or ornamental quality for outdoor recreation, such as picnicking, boating, fishing, swimming, camping, and local park trail uses. The site may also include play areas, such as playgrounds and open grassy playfields as long as these areas support the primary outdoor recreational features. The site should be contiguous to or encompassing natural resources including resource conservancies and may be easily accessible to several communities.

According to the NRPA, a suitable standard for resource conservancies is about 16.50 acres per every 1,000 residents. In practice, however, there are no minimum or maximum standards concerning conservancies - a site should provide whatever is necessary to protect the resource.

	Standards		Existing supply		Recmnd
	NRPA		LO	All total	Add/std
Acres of park land			20.3	32.95	10.0
Ratio per 1,000	16.50		0.59	1.87	1.99

City lands presently provide 0.59 acres of resource activities per 1,000 Lake Oswego residents. All other agencies combined provide 1.87 acres per 1,000 city residents.

Consequently, the present supply (existing level-of-service (ELOS) standard) should be increased by another 10.0 acres in the near future to possibly include the acquisition and development of additional waterfront activities along the Willamette River at the Portland Chip Plant next to Roehr Park.

Linear trails

Linear trails are built or natural corridors, such as abandoned railroad lines, undeveloped road-rights-of-way, and active utility rights-of-way or natural areas defined by drainage features, topographical changes, wooded areas or vegetation patterns that can link schools, libraries or commercial areas with parks. Generally, linear trails may be developed for multiple modes of recreational travel such as hiking, biking or horseback riding. The trail system may parallel established vehicular or other

transportation systems, but apart from and usually within a separate right-of-way. Linear trail corridors may also include active play areas or trailhead development located in any of the other types of park land described above.

Trail systems should be anchored by public facilities, like a school or park that may serve as a destination or trailhead, and extend into the surrounding residential areas using natural features or established roads, sidewalks or other safe travel corridors. Ideally, a minimum trail system should be at least 3-5 miles long and provide the ability to loop back to the point of origin. The trail should be sufficiently wide enough to provide for the type of trail user(s) that it is accommodating, preserve the features through which the trail is traveling, and buffer adjacent land use activities.

According to the NRPA, a suitable standard for linear park trails is about 0.5 miles of hiking and jogging trail and 0.5 miles of separate biking trail per 1,000 population. This is the equivalent of 4.85 acres of linear park trail facility units per 1,000 population if the different types are provided within a combined multi-use corridor - assuming the trail is used primarily by local residents.

	Standards	Existing supply		Recmnd
	NRPA	LO	All total	Add/std
Acres of park land		30.2	60.4	2.0
Ratio per 1,000	4.85	0.88	1.76	1.59

City land presently provides 0.88 miles of linear trail corridor per 1,000 Lake Oswego residents. All public agencies combined provide 1.76 acres of linear trail systems per 1,000 city residents - not including the extensive private HOA trails.

The present supply should be increased by another 2.0 acres in the near future to allow for the extension of the Willamette River Trail through the Portland Chip Plant or as an addition to Roehr Park.

Athletic fields and playgrounds

Athletic fields and playgrounds are designed for intense recreational activities like field and court games, playground apparatus areas, picnicking, wading pools, and the like. A suitable athletic field and playground site should be capable of sustaining intense recreational development. The site should be easily accessible to the using population and ideally should be linked to the surrounding area by walking and biking trails and paths. Typically, athletic fields and playgrounds may be included within or jointly developed in association with an elementary, middle or high school facility.

The desired service area for an athletic field or playground complex depends on the competitive quality to which the facility is developed and the resident using population that the site is intended to serve. Regionally oriented athletic sites may include 4 or more competitive, high quality soccer, baseball or softball fields serving organized leagues drawn from a number of surrounding communities or areas - which may include the approximate service area for a high school.

Local (community or neighborhood) oriented athletic fields and playgrounds may consist primarily of a playground and a grassy play area, possibly including 1 or more practice or non-regulation athletic field. Local athletic fields and playgrounds serve residents of an immediately surrounding residential area from a quarter to half-mile radius - which is the approximate service area for an elementary school.

According to the NRPA, a suitable standard for athletic fields and playgrounds is 3.10 acres per 1,000 population.

	Standards	Existing supply		Recmnd
	NRPA	LO	All total	Add/std
Acres of park land		42.2	159.9	0.0
Ratio per 1,000	3.10	1.23	4.66	4.07

City land presently provides 1.23 acres per 1,000 Lake Oswego residents of athletic fields and playgrounds. Other public and private agencies combined provide 3.79 acres per every 1,000 residents.

While the total supply of athletic field and playground land is significant, the total includes a significant inventory of non-regulation fields that cannot support competition games or practices. However, the city and other agencies own significant lands in their inventory that can be developed for additional fields and playgrounds.

Consequently, the present supply should be sufficient to meet the growing needs of local urban area residents to the year 2015. *(NOTE: PCC and Marylhurst acreages have not been included in existing land inventories, nor has it been used to estimate future land needs.)*

Recreation centers/pools

Recreation centers and pools are indoor and outdoor facilities providing swimming pools, physical conditioning, gymnasiums, arts and crafts, classrooms, meeting rooms, kitchen facilities, and other spaces to support public recreation programs for school-age children (but not students), teens, senior, and other resident populations on a full-time basis. For the purposes of this study, recreation centers and pools are defined to include all city, county, and school-owned facilities that are available for public use. By definition, recreation centers do not include all other school buildings or private-for-profit enterprises.

The desired service area for a recreation center/pool depends on the extent of the recreational program services to be offered in the facility and the building's potential size and site relationships. Regionally oriented recreation centers may include a variety of facility spaces including competitive swimming or diving pools, gymnasiums or courts, classroom and meeting facilities, a teen, senior center, and a daycare facility providing at least 7,500 square feet of indoor building space. And/or a regionally oriented recreation center may be jointly sited with an athletic park or playground, or in association with a library, civic center or other public meeting facility. Regionally oriented recreation centers may be jointly shared with school districts or a part of other city or county building complexes that serve a city or larger surrounding community area.

Local recreation centers may consist primarily of a single facility use - like a classroom or gymnasium complex that is less than 4,000 square feet in area and that may be sited as a lone building oriented to a single user group - like a teen or senior center. Local recreation centers serve residents of an immediately surrounding residential area from a quarter to half-mile radius - which is the approximate service area for an elementary school. There are no NRPA standards for recreation centers or other indoor facilities.

Recreation centers/pools (cont.)

	Standards		Existing supply		Recmnd
	NRPA		LO	All total	Add/std
Acres of park land			4.0	11.0	2.0
Ratio per 1,000	Na		0.12	0.29	0.31

City land presently provides 0.12 acres per 1,000 Lake Oswego residents. All public and private agencies combined provide 0.29 acres per 1,000 city residents.

The existing level-of-service would likely meet recreation center objectives were the inventory to include indoor space provided by Lake Oswego School District facilities. However, these facilities are not available for use during school hours to meet the needs of seniors, parents, or preschool children. Consequently, another 2.0 acres should be acquired in the near future to include the possible acquisition of a recreation center to service the adult daytime population, and adults and kids during evening summer months and holidays.

Special use facilities

Special use facilities are single-purpose recreational activities like arboreta, display gardens, nature centers, golf courses, marinas, zoos, conservatories, arenas, outdoor theaters, and gun and archery ranges. Special use facilities may include areas that preserve, maintain, and interpret buildings, sites, and other objects of historical or cultural significance, like museums, historical landmarks, and structures. Special use areas may also include public plazas or squares or commons in or near commercial centers, public buildings or other urban developed areas.

There are no standards concerning the development of special use facilities - demand being defined by opportunity more than a ratio standard. Nor are there minimum or maximum facility or site sizes - size being a function of the facility rather than a separately established design standard.

	Standards		Existing supply		Recmnd
	NRPA		LO	All total	Add/std
Acres of park land			46.3	185.3	2.0
Ratio per 1,000	Na		1.35	5.40	4.77

City land presently provides 1.35 acres per 1,000 Lake Oswego residents devoted to museums, interpretive centers, or similar special use facilities. Other public and private agencies provide a ratio of 5.40 acres per 1,000 city residents.

Market conditions or strategic opportunities may determine any increase in these facilities. However, there are strategic sites in the planning proposals that could combine special purpose facilities like a museum with other outdoor recreation opportunities.

Support facilities

Support facilities include administrative office space, indoor meeting rooms, shop and equipment maintenance yards, plant nurseries, and other buildings and sites necessary to service the park system.

There are no standards concerning the development of support use facilities - demand being defined by functional operating requirements more than a ratio standard. Nor are

there minimum or maximum facility or site sizes - size being a function of the type of facility space required and whether the facility space is shard with other jurisdiction support functions rather than a separately established design standard.

	Standards		Existing supply		Recmnd
	NRPA		LO	All total	Add/std
Acres of park land			5.0	10.0	0.0
Ratio per 1,000	Na		0.15	0.29	0.25

City land provides 0.15 acres of park supporting facilities per 1,000 Lake Oswego residents including a portion of the Lake Oswego City Hall, Library, Maintenance Shop, and Luscher Farm outbuildings. Other public and private agencies combined provide 0.15 acres per 1,000 city residents.

This level-of-service is sufficient to provide equipment and facility space for the maintenance and operation of the existing park and recreation inventory.

6.2 Facility requirements

The following discussion addresses the types of facilities needed to meet current and future demand for parks and recreation services. Results are based upon a combination of national standards and Pacific Northwest Region participation models.

Participation models - park and recreation facility requirements can be determined using variations of participation models - which are refined, statistical variations of a questionnaire or survey method of determining recreational behavior. Participation models are usually compiled using activity diaries, where a person or household records their participation in specific recreational activities over a measurable period of time. The diary results are then compiled to create a statistical profile that can be used to project the park and recreation behavior of comparable persons, households or populations.

Participation models are most accurate when the participation measurements are determined for a population and area that is local and similar enough to the population that is to be projected by the model. The most accurate participation models are usually controlled by climatic region and age, and are periodically updated to measure changes in recreational behavior in specific activities or areas over time.

Properly done, participation models can be very accurate predictors of an area's facility requirements in terms that are specific and measurable. However, though accurate, participation models can be somewhat abstract, and if not combined with other methods of gathering public opinion, the method can fail to determine the qualitative issues of an area's facility demands in addition to a facility's quantitative requirements.

For example, an area might provide the exact facility quantities that are required to meet the resident populations park and recreation demands, such as a mile of walking trail. However, the facility might not be provided with the quality, program service or other important, but less measurable aspect that make the facility quantity effective and the activity a pleasurable experience. The walking trail, for example, might be located in an area of uninteresting scenery and/or in an inaccessible location.

This planning effort utilizes the results of recent recreation modeling by Oregon, Washington, and Idaho for six age groups (male and female) for the western regions of the states. Estimates were developed for 21 park and recreation activities that were determined to be of most interest to the residents of Lake Oswego.

The estimates were developed for each activity demand for the peak season periods that would most impact facility capacities and thereby the level of service to local residents. The estimated demands were calculated in facility unit terms based on an assumed capacity and turnover rate common to the findings of the diary surveys. The projected facility unit requirements were then converted into a simple facility unit per 1,000 residents ratio to allow comparison with similar standards developed by the NRPA and found to be the existing facility level-of-service (ELOS) for each activity.

Ratio standards - a number of organizations maintain ratio standards concerning park and recreation facilities - including the National Recreation & Park Association (NRPA). National population ratio standards are not as accurate as regionally based participation models since the national ratios do not account for differences in region, climate, age or other characteristics that can be controlled under the participation model. In addition, the participation model can also account for a facility capacity standard that may be expressed through management policies or local population preferences concerning volume of use or the degree of crowding that is satisfactory.

Nonetheless, a comparison was accomplished of the results of the participation model projections and common ratio standards maintained by various industry sources. Generally, the results indicate that the Pacific Northwest's existing and projected age characteristics will create a unique set of facility standards.

"NRPA" refers to the National Parks & Recreation Association standard and "PNW" refers to the Pacific Northwest in the following charts. See APP 67 for more information.

Picnic tables and shelters

The NRPA does not have a standard for picnic facilities. The participation model indicates public agencies should be providing a ratio of 1.77 picnic tables of all types (open and under shelters) per every 1,000 residents then gradually decline to 1.67 as the population ages into 2010.

	Standards		Existing supply		Recmnd
	NRPA	PNW	LO	All total	Add/std
Picnic tables			63	113	83
Ratio per 1,000	Na	1.77	1.84	3.29	4.99
Picnic shelters			7	7	11
Ratio per 1,000	Na	Na	0.20	0.20	0.42

Lake Oswego presently provides a ratio of 1.84 tables and 0.20 shelters per 1,000 Lake Oswego residents. All public and private agencies combined provide a ratio of 3.29 tables and 0.20 shelters per 1,000 city residents - though this supply includes tables maintained at state parks used by out-of-area residents.

In general, Lake Oswego facilities do not provide a sufficient number of tables with which to meet the requirements for local resident populations and the large number of regional users who frequent local park sites during peak summer weeks and events. Nor are the tables and shelters equally distributed to provide access to all neighborhoods and residential areas.

Consequently, another 83 picnic tables and 11 shelters should eventually be added to key multi-use park and trail sites to meet local neighborhood residents needs and off-set out-of-area users during peak seasons.

Swimming at a beach (waterfront access)

The NRPA does not have a standard for swimming beaches. There is no behavioral data with which the participation model can project swimming beach requirements.

	Standards		Existing supply		Recmnd
	NRPA	PNW	LO	All total	Add/std
Swim beach - site			3	6	1
Ratio per 1,000	Na	Na	0.09	0.17	0.18

Lake Oswego presently provides a ratio of 0.09 swimming beaches per 1,000 city residents. All public and private agencies provide a ratio of 0.17 beach sites per 1,000 city residents though all of these facilities are shared with out-of-area residents and private lake corporation members. Generally, swimming beach facilities front onto Oswego Lake (private) rather than the Willamette or Tualatin Rivers.

Consequently, an additional swimming beach facility should eventually be developed at the proposed Roehr Park Addition on the Willamette River at the Portland chip plant site to meet future population growth requirements and off-set increasing demands from out-of-area residents.

Fishing/boating

The NRPA does not have a standard for fishing or boating facilities. There is no behavioral data with which the participation model can project boat launch ramps, floating piers, boat moorage slips, dock and overlook structures, hand-carry or car-top, sail or power boat launch ramp trailer parking spaces.

	Standards		Existing supply		Recmnd
	NRPA	PNW	LO	All total	Add/std
Boat launch ramps			0	2	1
Ratio per 1,000	Na	Na	0.00	0.06	0.18
Car-top launch sites			1	7	2
Ratio per 1,000	Na	Na	0.03	0.20	0.23
Floating platform sq ft			4,000	4,000	2,000
Ratio per 1,000	Na	Na	116.62	116.62	152.82
Docks/pier sq ft			2,000	2,000	1,000
Ratio per 1,000	Na	Na	58.31	58.31	76.41
Moorage slips			4	4	4
Ratio per 1,000	Na	Na	0.12	0.12	0.20

Lake Oswego presently provides a ratio of 0.03 car-top launch sites, 116.62 square feet of floating platform, 58.31 square feet of docks and piers, and 0.12 transitory boat slips per 1,000 Lake Oswego residents - but no powerboat launch ramps. All public and private agencies combined provide a ratio of 0.06 boat launch sites, 0.20 car-top launch sites, 116.62 square feet of floating platform, 58.31 square feet of docks and piers, and 0.12 transit moorage slips per 1,000 city residents.

These facilities are used on a regional basis by populations who reside in and outside the Lake Oswego urban growth boundary on a regular basis due to a lack of similar public

access opportunities and facilities on Oswego Lake, the Willamette and Tualatin Rivers - and sometimes during special events.

Consequently, a powerboat launch ramp, 2 car-top boat launch sites, 2,000 square feet of floating platform, 1,000 square feet of pier, and 4 transitory boat slips should eventually be added to the inventory. The facilities may be sited at the Roehr Park Addition on the Willamette River and a car-top launch site on the Tualatin River at River Run Park to provide public access to waterfront areas not currently available.

Tent and vehicle camping

The NRPA does not have a standard for tent or vehicle campsites. The participation model indicates public agencies should provide a ratio of 1.28 tent campsites and 2.00 vehicle campsites per every 1,000 residents then gradually decline to 1.15 tent and increase to 2.03 vehicle campsites as the population ages into 2010.

	Standards		Existing supply		Recmnd
	NRPA	PNW	LO	All total	Add/std
Tent campsites			0	0	0
Ratio per 1,000	Na	1.28	0.00	0.00	0.00
Vehicle campsites			0	0	0
Ratio per 1,000	Na	2.00	0.00	0.00	0.00

No public or private agency in the Lake Oswego area provide tent or vehicle camping facilities - nor is the urban area suitable for such uses. A variety of tent and vehicle camping facilities are provided in nearby state parks within a 30 to 60 minute driving radius of the city.

These facilities should be sufficient to meet local requirements for this activity.

Local park trails

The NRPA does not have a standard for local park walking trails. The participation model indicates public agencies should be providing a ratio of 0.13 miles of park walking trails per every 1,000 residents during the 1990s and into 2010.

	Standards		Existing supply		Recmnd
	NRPA	PNW	LO	All total	Add/std
Park trail miles			11.3	11.3	12.8
Ratio per 1,000	Na	0.13	0.33	0.33	0.61

Lake Oswego presently provides a ratio of 0.33 miles of local park trails per 1,000 Lake Oswego residents. All public and private agencies combined provide a ratio of 0.33 miles of local park trail per 1,000 city residents.

Walking activities are growing at a rate faster than indicated in the participation model projections - particularly for older adults in local park settings next to residential neighborhoods. In addition, out-of-area residents often frequent parks with unique natural area settings, historical landmarks, or other unique and interesting features on weekends and holidays.

Consequently, the present supply is not sufficient to provide access to the numerous natural areas, waterfront sites, historical landmarks and other features of interest to local and out-of-area residents. Another 12.8 miles should be added to the inventory in the near future to increase access within city parks.

Walking/biking on an off-road trail

The NRPA recommends a combination ratio of 0.50 miles walk and bike trail per 1,000 residents. The participation model indicates public agencies should be providing a ratio of 0.15 miles of walking or hiking trails and 0.30 miles of bicycling trails within a separated multipurpose trail corridor per every 1,000 residents. The ratio will decline to 0.14 walking and 0.29 biking trails per 1,000 residents as the population ages into 2010.

	Standards		Existing supply		Recmnd
	NRPA	PNW	LO	All total	Add/std
Walking trail miles			25.3	36.3	22.3
Ratio per 1,000	0.50	0.15	0.74	1.06	1.49
Biking trail miles			1.0	4.0	9.0
Ratio per 1,000	0.50	0.30	0.03	0.12	0.33

Lake Oswego presently provides a ratio of 0.74 miles of hiking and 0.03 miles of biking trail facilities per 1,000 Lake Oswego residents. All public and private agencies combined provide a ratio of 1.06 miles of hiking and 0.12 miles of biking trail per 1,000 city residents.

Trail hiking and biking activities are growing at a rate faster than indicated in the NRPA and participation model projections - particularly as a form of commuting to jobs, schools, and other facilities, as well as for recreational enjoyment. In addition, out-of-area residents often frequent hike and bike trails that provide access to or through unique natural area settings, historical landmarks, or other unique and interesting features on weekends and holidays.

Consequently, the present supply is not sufficient to provide trail access to the numerous natural areas, waterfront sites, historical landmarks and other features of interest to local and out-of-area residents within city parks. Another 22.3 miles of hiking trail and 9.0 miles of biking trail should be added to the inventory in the near future to increase access.

Bicycling on a road

The NRPA does not have a standard for bicycle touring. The participation model indicates public agencies should be providing a ratio of 0.03 miles of designated and shoulder improved roadways per every 1,000 residents - assuming local roads provide routes with interesting viewpoints and other characteristics preferred by bike touring enthusiasts.

Note - bicycle touring is a specialized form of bicycling activity and is not the same as bicycling on a trail or bicycling on a road for commuter or other more functional purposes. Bicycle touring is usually accomplished by an organized group of cyclists on scenic roads or along scenic shoreline routes on designated road shoulders or sometimes in traffic on designated roadways.

	Standards		Existing supply		Recmnd
	NRPA	PNW	LO	All total	Add/std
Bicycling road miles			29.9	29.9	11.6
Ratio per 1,000	Na	0.03	0.87	0.87	1.06

Lake Oswego roadways currently provide 0.87 miles of specially marked bicycle lanes or routes on major commuter or recreational routes.

Bicycle touring interest groups and commuting school children unofficially use roadways of various conditions and standards along the most scenic roadways or between residential neighborhoods and local park and school facilities. Most of the routes favored by enthusiasts and school children are gradually being improved and designated to correct inadequate pavements, shoulder widths, and other safety standard concerns using roadway improvement funds and other non-motorized trail development monies.

In addition, a significant volume of regional or tourist bicycle touring groups also use local roadways due to the area's scenic beauty and relatively low traffic volumes.

Consequently, another 11.6 miles of improved and designated biking roadways should be added to the inventory in the near future to complete major linkages between existing roadways along scenic routes, within residential areas, and between major community attractions.

In addition, Lake Oswego should participate in a regional planning effort to ensure that cross-country touring routes are provided that will be of interest to local cycling enthusiasts throughout the Willamette River Valley.

Horseback riding on a trail

The NRPA does not have a standard for horseback riding trails. The participation model indicates public agencies should be providing a ratio of 0.12 miles of horseback riding trails per every 1,000 residents declining to 0.11 miles as the population ages into 2010.

	Standards		Existing supply		Recmnd
	NRPA	PNW	LO	All total	Add/std
Horse trail miles			0.0	4.3	3.4
Ratio per 1,000	na	0.12	0.00	0.18	0.28

Lake Oswego does not currently provide horseback riding trails in the city park system. All public and private agencies combined provide a ratio of 0.18 miles per 1,000 city residents when private trails are included. Local residents as well as an increasing number of regional riding groups use these facilities to provide access to Tryon Creek Park and the Oswego Hunt Club's riding trails.

The number of horseback riding opportunities is diminishing within the urbanizing areas even as local residents continue to seek riding trail access. Consequently, another 3.4 miles of riding trail should eventually be added to the inventory to include trail linkages and access to rural area park sites like Luscher Farm.

Playgrounds

The NRPA does not have a standard for playground facilities. The participation model indicates public agencies should be providing a ratio of 0.60 playgrounds of all types per every 1,000 residents during the 1990s, then gradually decline to 0.53 playgrounds as the population ages to the year 2010.

	Standards		Existing supply		Recmnd
	NRPA	PNW	LO	All total	Add/std
Playgrounds			12	24	10
Ratio per 1,000	Na	0.60	0.35	0.70	0.87

City facilities presently provide a ratio of 0.35 playgrounds per 1,000 Lake Oswego residents. All public and private agencies combined provide a ratio of 0.70 playgrounds per city 1,000 residents.

All public and private agency facilities combined are close to standards assuming most playgrounds are available for use by the general public and evenly distributed throughout the city. The present supply of playgrounds, however, is not evenly distributed to provide equal access to all neighborhood areas.

Consequently, another 10 playgrounds should be added in the near future to possibly include facilities located at undeveloped or single purpose park sites.

Skateboard court

There are no participation model standards for skateboard courts or parks - or similar rollerblade or in-line skating court activities. These are recent recreational phenomenon with no established service standards.

	Standards		Existing supply		Recmnd
	NRPA	PNW	LO	All total	Add/std
Skateboard courts			1	1	2
Ratio per 1,000	Na	Na	0.03	0.03	0.08

Lake Oswego recently developed a skateboard facility at the City Maintenance Shop creating a ratio of 0.03 skateboard courts per 1,000 Lake Oswego residents. This new facility may be sufficient to meet the needs of city residents for the near future.

However, 2 additional facilities could eventually be developed to augment other daytime and after hour activities at the Junior Highs or High Schools to provide an even distribution between city neighborhoods and where teens concentrate.

Outdoor basketball courts

The NRPA recommends a standard of 0.30 courts per 1,000 residents. The participation model indicates public agencies should be providing a ratio of 0.10 basketball courts of all types per every 1,000 residents during the 1990s and then gradually decline to a ratio of 0.09 as the population ages.

	Standards		Existing supply		Recmnd
	NRPA	PNW	LO	All total	Add/std
Basketball courts			3	21	0
Ratio per 1,000	0.30	0.10	0.09	0.62	0.54

City facilities presently provide a ratio of 0.09 courts per 1,000 Lake Oswego residents. All public and private agencies combined provide a ratio of 0.62 courts per 1,000 city residents. These facilities should be sufficient to meet the needs of city residents for the near future.

Outdoor volleyball courts

The NRPA recommends 0.20 courts of all types per every 1,000 residents. There is no behavioral data with which the participation model can project volleyball requirements.

	Standards		Existing supply		Recmnd
	NRPA	PNW	LO	All total	Add/std
Volleyball courts			1	2	12
Ratio per 1,000	0.20	Na	0.03	0.06	0.36

City facilities currently provide a ratio of 0.03 volleyball facilities per 1,000 Lake Oswego residents. All public and private agencies combined provide a ratio of 0.06 facilities per 1,000 city residents. Consequently, another 12 courts should be added at undeveloped or single purpose parks in the near future to balance activities with other group picnic and recreation interests.

Tennis courts

The NRPA recommends a ratio of 0.50 indoor and outdoor courts per 1,000 residents. The participation model indicates public agencies should be providing a ratio of 0.24 tennis courts of all types per every 1,000 residents during the 1990s then gradually decline to 0.22 as the population ages into 2010.

	Standards		Existing supply		Recmnd
	NRPA	PNW	LO	All total	Add/std
Tennis courts-indoor			4	11	0
Ratio per 1,000	0.50*	0.24*	0.12	0.44	0.38
Tennis courts-outdoor			8	35	0
Ratio per 1,000	0.50*	0.24*	0.23	0.90	0.79

* NRPA and PNW standards are for the composite total of indoor and outdoor courts.

City facilities currently provide a ratio of 0.12 indoor and 0.23 outdoor courts per 1,000 Lake Oswego residents. All public and private agencies combined provide a ratio of 0.44 indoor and 0.90 outdoor courts per 1,000 city residents.

The Pacific Northwest is experiencing greater demand for year round tennis, as a result, the present supply of indoor public courts do not meet needs during rainy portions of the year, primarily late fall through early spring. Existing public and private facilities meet tennis needs for residents and school children during summer months.

Football fields

The NRPA recommends a ratio of 0.05 fields per 1,000 residents. There is no behavioral data with which the participation model can project football fields.

	Standards		Existing supply		Recmnd
	NRPA	PNW	LO	All total	Add/std*
Football fields			0	6	
Ratio per 1,000	0.10	0.32	0.00	0.17	0.15

Lake Oswego does not provide football fields. All public and private agencies combined provide a ratio of 0.17 fields per 1,000 city residents - although the supply includes practice or non-regulation fields not capable of competition play and some school fields not available for public use.

In general, existing facilities meet football field requirements. Consequently, the present supply should be sufficient to meet local needs.

Soccer fields

The NRPA recommends a ratio of 0.10 fields per 1,000 residents. The participation model indicates public agencies should provide a ratio of 0.32 fields of all types (regulation and practice or junior sized) per every 1,000 residents during the 1990s then gradually decline to 0.29 as the population ages to 2010.

	Standards		Existing supply		Recmnd
	NRPA	PNW	LO	All total	Add/std*
Soccer fields			3	18	8
Ratio per 1,000	0.10	0.32	0.09	0.53	0.66

* Includes 7 new fields and 1 field upgrade.

Lake Oswego presently provides a ratio of 0.09 fields per 1,000 Lake Oswego residents. All public and private agencies combined provide a ratio of 0.53 fields per 1,000 city residents - however, the supply includes practice or non-regulation fields not capable of accommodating competition play and some school fields not available for public use.

Soccer activities, particularly coed leagues, are growing at a rate faster than indicated in the NRPA ratio and participation model projections. In addition, leagues are being organized on a regional rather than local basis within Lake Oswego and the surrounding areas.

Consequently, the existing supply may be improved in the near future and increased over time up to a total of another 8 fields to meet future population growth requirements and balance age-field size requirements.

Baseball/softball fields

The NRPA recommends a ratio of 0.40 fields per 1,000 residents. The participation model indicates public agencies should be providing a ratio of 0.53 baseball and softball fields of all types (adult, bronco, and little league regulation and practice) per every 1,000 residents during the 1990s then gradually decline to 0.49 as the population ages into 2010.

	Standards		Existing supply		Recmnd
	NRPA	PNW	LO	All total	Add/std*
Baseball/softball fields			7	24	8
Ratio per 1,000	0.40	0.53	0.21	0.70	0.82

* Includes 4 new fields and 4 field upgrades.

Lake Oswego presently provides a ratio of 0.21 fields per 1,000 Lake Oswego residents - although the supply includes a number of undersized and unimproved non-regulation fields. All public and private agencies combined provide a ratio of 0.70 fields per 1,000 city residents - however, the supply includes practice or non-regulation fields not capable of accommodating competition play and some school fields not available for public use.

Baseball and softball activities, particularly coed leagues, are growing at a rate faster than indicated in the NRPA ratio and participation model projections. In addition, leagues are being organized on a regional rather than local basis within Lake Oswego and the surrounding areas.

Consequently, the existing supply may be improved in the near future and increased over time up to a total of another 8 fields to meet future population growth requirements and balance age-field size requirements.

Jogging tracks

The NRPA recommends a ratio of 0.05 miles per 1,000 residents. The participation model indicates public agencies should be providing a ratio of 0.02 miles of jogging tracks of all types (special and dirt surface) per every 1,000 residents during the 1990s and into 2010.

	Standards		Existing supply		Recmnd
	NRPA	PNW	LO	All total	Add/std
Jogging track miles			0.00	0.75	0.00
Ratio per 1,000	0.05	0.02	0.00	0.02	0.02

Lake Oswego does not provide jogging track facilities. All public and private agencies combined provide a ratio of 0.02 miles of track per 1,000 city residents.

In general, existing facilities meet track objectives. Consequently, the present supply is sufficient to meet local requirements.

Swimming at a pool

The NRPA recommends a standard of 0.05 swimming pool facilities per 1,000 residents. The participation model indicates public agencies should be providing a ratio of 541.00 square feet of swimming pool and related area per every 1,000 residents declining to 503.00 square feet as the population ages into 2010.

	Standards		Existing supply		Recmnd
	NRPA	PNW	LO	All total	Add/std*
Swimming pool sq ft			0	12,200	7,000
Ratio per 1,000	0.05	541.00	0.00	355.69	489.02

* Includes renovation of the existing Lake Oswego High School pool, public access to Portland Community College, and the construction of another 4,000 square feet of indoor pool.

Lake Oswego does not currently provide indoor swimming facilities. All public and private agencies combined presently provide a ratio of 355.69 square feet per 1,000 city residents – including pools provided at private clubs and other membership facilities that are not available to the general public.

The Lake Oswego High School swimming pool is used for school educational instructions, athletic competitions, and some public activities. Assuming this pool is renovated but remains the only principal facility available for public use, the present supply may not be sufficient to meet needs of the future population.

The high school pool should be renovated in the near future and possibly expanded to accommodate instruction and competition needs along with public access to Portland Community College’s pool. In addition, another indoor facility should eventually be constructed to provide indoor, year-round swimming activities to the general public as well as for school and swim team needs.

Indoor recreation centers

The NRPA does not have a recreation center standard. There are no comparable participation model data with which to project demand for recreation centers.

	Standards		Existing supply		Recmnd
	NRPA	PNW	LO	All total	Add/std
Gymnasium sq ft			0	123,000	10,000
Ratio per 1,000	Na	Na	0.00	3586.01	3387.50
Physical condition sq ft			0	12,400	4,000
Ratio per 1,000	Na	Na	0.00	361.52	417.71
Racquetball/handball			0	0	0
Ratio per 1,000	Na	Na	0.00	0.00	0.00

Lake Oswego does not provide indoor gymnasiums, physical conditioning, or racquetball/handball court facilities. All public and private agencies combined provide a ratio of 3,586.01 square feet of gymnasium and 361.52 square feet of physical conditioning space but no racquetball/handball courts per 1,000 city residents – in school facilities and private athletic clubs.

The existing facilities are not sufficient to provide public access to recreational facilities by retired persons, at-home mothers, or workers during school hours or events now or for future population projections.

Another 10,000 square feet of gymnasium and 4,000 square feet of physical conditioning space should be added in the near future in a day-use facility.

Indoor community centers

The NRPA does not have a community center standard. There are no comparable participation model data with which to project demand for public indoor community center facilities.

	Standards		Existing supply		Recmnd
	NRPA	PNW	LO	All total	Add/std*
Arts and crafts sq ft			2,000	18,500	4,000
Ratio per 1,000	Na	Na	58.31	539.36	573.07
Classroom sq ft			2,500	31,600	2,000
Ratio per 1,000	Na	Na	72.89	921.28	855.79
Auditorium sq ft			5,000	30,400	4,000
Ratio per 1,000	Na	Na	145.77	886.30	876.17
Kitchen sq ft			800	2,000	800
Ratio per 1,000	Na	Na	23.32	58.31	71.32
Daycare/nursery sq ft			0	20,400	0
Ratio per 1,000	Na	Na	0.00	594.75	519.59
Senior/teen center sq ft			8,000	8,000	2,000
Ratio per 1,000	Na	Na	233.24	233.34	254.70

Lake Oswego presently provides a ratio of 58.31 square feet of arts and crafts, 72.89 square feet of classroom facilities, 145.77 square feet of large meeting space, 23.32 square feet of catering kitchen, 233.24 square feet of other space per 1,000 Lake Oswego residents- all at the Adult Community Center that is restricted by conditional use permit to serve only adults. The city does not provide day care space or after-school program space for youth. All public and private agencies combined provide a ratio of 539.36 square feet of arts and crafts, 921.28 square feet of classrooms, 886.30 square feet of auditorium, 594.75 square feet of daycare facilities, and 233.34 square feet of senior and teen space per 1,000 city residents - not including general purpose school classroom, kitchens, and other assembly facilities dedicated to education uses.

Most of this inventory is provided at schools that are not available for general public use during daytime hours or on weekends for preschool, seniors, or other at-home family members - or at churches, clubs, or commercial facilities requiring membership or fees.

Another 4,000 square feet of arts and crafts, 2,000 square feet of small meeting space, 4,000 square feet of large assembly space, and 800 square feet of catering area should be added in the near future for use by the general population. These proposed new facilities will provide for future population increases and broaden the services available for community activities - possibly in a combination arts and conferencing facility along the waterfront of interest to city as well as out-of-area users.

Nature centers and museums

The NRPA does not have a standard for nature centers and museums. There are no comparable participation model data with which to project the demand for nature centers and museum facilities.

	Standards		Existing supply		Recmnd
	NRPA	PNW	LO	All total	Add/std*
Nature center sq ft			0	2,000	5,000
Ratio per 1,000	Na	Na	0.00	58.31	178.29
Museum sq ft			0	3,000	7,400
Ratio per 1,000	Na	Na	0.00	87.46	264.89

Lake Oswego does not presently provide nature center exhibits or museum facilities. All other public and private agencies combined presently provide a ratio of 58.31 square feet of nature interpretive exhibits and a ratio of 87.46 square feet of museum per 1,000 city residents in a variety of public and private facilities.

Another 5,000 square feet of nature center and 7,400 square feet of museum space should be added to the inventory in the near future. The facilities should provide public environmental and historical interpretive exhibits and displays at Luscher Farm, the old riverboat, trolley, George Rogers Park, sites in the Roehr Park expansion into the Portland chip plant, and Bryant Woods-Canal Acres.

Golf course

The NRPA standard is 0.13 golf course holes per 1,000 residents. The participation model indicates public and private agencies should be providing a ratio of 0.41 holes of golf and related facilities per every 1,000 residents increasing to 0.43 holes as the population ages into 2010.

	Standards		Existing supply		Recmnd
	NRPA	PNW	LO	All total	Add/std*
Golf course holes			18	36	0
Ratio per 1,000	0.13	0.41	0.52	1.05	0.92

Lake Oswego presently provides a ratio of 0.52 holes of public golf per 1,000 Lake Oswego residents. All public and private agencies combined provide a ratio of 1.05 holes per 1,000 city residents - some of which are available for public play for a fee or membership.

Generally, the present market arrangement is sufficient to provide the golfing needs of local residents.

Existing Level-of-Service (ELOS) Requirements for City Facilities ¹

Population in development 1
 Population in city 2000 34,300
 Population in city 2015 39,262

Land	units	2000 ELOS		Year 2015		Facility cost /unit	Project/ per capita fee	Year 2006 funding deficit
		fcilty total	standard /1000	facility rqmnt	deficit			
1 resource conservancy	acres	525.2	15.31	601.2	76.0	\$50,000	\$765.60	\$3,798,896
2 resource activities	acres	20.3	0.59	23.2	2.9	\$75,000	\$44.39	\$220,252
3 linear trails	acres	30.2	0.88	34.6	4.4	\$75,000	\$66.03	\$327,666
4 athletic fields/playgrounds	acres	44.1	1.29	50.5	6.4	\$200,000	\$257.14	\$1,275,943
5 recreation centers/pools	acres	4.0	0.12	4.6	0.6	\$400,000	\$46.65	\$231,464
6 special use facilities	acres	46.3	1.35	53.0	6.7	\$200,000	\$269.97	\$1,339,595
7 support facilities/yards/buildings	acres	5.0	0.15	5.7	0.7	\$75,000	\$10.93	\$54,249
Subtotal for land impact		675.1	19.68	772.8	97.7		\$1,460.71	\$7,248,064

Facilities

1 a picnic tables w/o shelter	table	63	1.84	72	9	\$7,609	\$13.98	\$69,347
b picnic shelters-group use	shelter	7	0.20	8	1	\$10,694	\$2.18	\$10,829
2 a swimming at a beach	sq feet	3	0.09	3	0	\$0	\$0.00	\$0
b swimming at a beach	pkng sp	0	0.00	0	0	\$4,388	\$0.00	\$0
3 a boat launch ramps	each	0	0.00	0	0	\$25,000	\$0.00	\$0
b handcarry boat launch	each	3	0.09	3	0	\$5,000	\$0.44	\$2,170
c fishing from a dock	pkng sp	4000	116.62	4,579	579	\$32	\$3.73	\$18,517
d pier/dock platform	sq ft	2000	58.31	2,289	289	\$50	\$2.92	\$14,466
e boat slips	each	4	0.12	5	1	\$10,000	\$1.17	\$5,787
4 power boat - launch	pkng sp	0	0.00	0	0	\$4,241	\$0.00	\$0
5 a tent camping	campsite	0	0.00	0	0	\$30,935	\$0.00	\$0
b vehicle camping	campsite	0	0.00	0	0	\$30,454	\$0.00	\$0
6 a walking in a park-asphalt	trail mile	4.0	0.12	4.6	1	\$133,216	\$15.54	\$77,087
b walking in a park-dirt	trail mile	7.3	0.21	8.4	1	\$83,769	\$17.83	\$88,464
7 a day hiking on a trail-asphalt	trail mile	25.3	0.74	29.0	4	\$199,160	\$146.90	\$728,929
b day hiking on a trail-dirt	trail mile	0.0	0.00	0.0	0	\$56,195	\$0.00	\$0
8 a backpacking/overnight camping	trail mile	0.0	0.00	0.0	0	\$47,399	\$0.00	\$0
9 a bicycling on a trail-asphalt	trail mile	1.0	0.03	1.1	0	\$116,588	\$3.40	\$16,866
b bicycling on a trail-dirt	trail mile	0.0	0.00	0.0	0	\$58,294	\$0.00	\$0
10 a bicycling on a road-marked w/shc	trail mile	29.9	0.87	34.2	4	\$116,588	\$101.63	\$504,299
b bicycling on a road-designated or	trail mile	0.0	0.00	0.0	0	\$17,258	\$0.00	\$0
11 a horseback riding on a trail	trail mile	0.0	0.00	0.0	0	\$5,517	\$0.00	\$0
12 a playgrounds covered	playgrou	0	0.00	0	0	\$100,000	\$0.00	\$0
b playground uncovered	playgrou	12	0.35	14	2	\$62,900	\$22.01	\$109,193
13 open play area-improved	acre	0.0	0.00	0.0	0	\$97,054	\$0.00	\$0
14 skateboard court	court	1	0.03	1	0	\$100,000	\$2.92	\$14,466
15 handball uncovered-outdoor	court	0	0.00	0	0	\$19,723	\$0.00	\$0
16 a basketball covered-outdoor	court	0	0.00	0	0	\$75,000	\$0.00	\$0
b basketball uncovered-outdoor	court	3	0.09	3	0	\$53,383	\$4.67	\$23,168
17 a volleyball covered-outdoor	court	0	0.00	0	0	\$50,000	\$0.00	\$0
b volleyball uncovered-outdoor	court	0	0.00	0	0	\$29,224	\$0.00	\$0
c volleyball sand	court	1	0.03	1	0	\$5,000	\$0.15	\$723
18 a tennis - indoor	court	4	0.12	5	1	\$150,000	\$17.49	\$86,799
b tennis lighted-outdoor	court	0	0.00	0	0	\$95,320	\$0.00	\$0
c tennis w/o lights-outdoor	court	8	0.23	9	1	\$52,481	\$12.24	\$60,737
19 a football regulation	field	0	0.00	0	0	\$226,436	\$0.00	\$0
b football practice field	field	0	0.00	0	0	\$100,000	\$0.00	\$0
20 a soccer regulation	field-igh	2	0.06	2	0	\$583,480	\$34.02	\$168,818
soccer regulation	field-unl	1	0.03	1	0	\$172,852	\$5.04	\$25,006
b soccer youth	field	0	0.00	0	0	\$141,422	\$0.00	\$0
21 field hockey/lacrosse-grass	field	0	0.00	0	0	\$500,000	\$0.00	\$0
22 a baseball 300+ adult grass lighted field		3	0.09	3	0	\$403,612	\$35.30	\$175,165

Existing Level-of-Service (ELOS) Requirements for City Facilities ¹

Population in development 1
 Population in city 2000 34,300
 Population in city 2015 39,262

Land	units	2000 ELOS		Year 2015		Facility cost /unit	Project/ per capita fee	Year 2006 funding deficit
		fclty total	standard /1000	facility rqmnt	deficit			
b	baseball 300+ adult grass/unlight field	0	0.00	0	0	\$175,000	\$0.00	\$0
c	baseball 250+ adult dirt/lighted field	0	0.00	0	0	\$250,000	\$0.00	\$0
d	baseball 250+ adult dirt/unlighted field	0	0.00	0	0	\$175,000	\$0.00	\$0
e	baseball/softball practice field	0	0.00	0	0	\$100,000	\$0.00	\$0
f	baseball/Little League-grass field	4	0.12	5	1	\$203,449	\$23.73	\$117,728
g	baseball/Little League-dirt field	0	0.00	0	0	\$105,729	\$0.00	\$0
23	parcourse stations	0	0.00	0	0	\$2,598	\$0.00	\$0
24 a	jogging track w/special surface	0.00	0.00	0.00	0	\$61,388	\$0.00	\$0
b	jogging track w/dirt surface	0.00	0.00	0.00	0	\$30,000	\$0.00	\$0
25 a	swimming at a pool-indoor	0	0.00	0	0	\$200	\$0.00	\$0
b	swimming at a pool-outdoor	0	0.00	0	0	\$200	\$0.00	\$0
26	indoor gymnasium	0	0.00	0	0	\$300	\$0.00	\$0
27	physical conditioning	0	0.00	0	0	\$250	\$0.00	\$0
28 a	racquetball (1600 each/sf ft)	0	0.00	0	0	\$320,000	\$0.00	\$0
b	handball (1200 sf)	0	0.00	0	0	\$225,000	\$0.00	\$0
29	arts/crafts/pottery room ⁺	2,000	58.31	2,289	289	\$270	\$15.74	\$78,119
30	classrooms/meeting facilities ^c	2,500	72.89	2,862	362	\$250	\$18.22	\$90,415
31	auditorium/staging/meeting facilities	5,000	145.77	5,723	723	\$400	\$58.31	\$289,329
32	kitchen facilities ^d	800	23.32	916	116	\$400	\$9.33	\$46,293
33	dining facilities ^e	0	0.00	0	0	\$200	\$0.00	\$0
34	day care/nursery ^f	8,000	233.24	9,157	1,157	\$250	\$58.31	\$289,329
35 a	community center administrations	0	0.00	0	0	\$350	\$0.00	\$0
b	community center other spaces	0	0.00	0	0	\$250	\$0.00	\$0
36 a	nature interpretive centers	0	0.00	0	0	\$150	\$0.00	\$0
b	museum/historical facilities	0	0.00	0	0	\$300	\$0.00	\$0
37 a	golf-par 3/18 hole	18	0.52	21	3	\$111,111	enterprise	enterprise
b	golf driving range	1	0.03	1	0	\$150	enterprise	enterprise
c	golf course clubhouse	3,000	87.46	3,434	434	\$300	enterprise	enterprise
d	golf course maintenance facilities	1,000	29.15	1,145	145	\$90	enterprise	enterprise
38 a	gun range - outdoor	0	0.00	0	0	\$20,000	\$0.00	\$0
b	archery range - outdoor	0	0.00	0	0	\$10,000	\$0.00	\$0
39	amphitheater	3,000	87.46	3,434	434		\$0.00	\$0
40 a	parks admin facilities	4,000	116.62	4,579	579	\$250	\$29.15	\$144,665
b	parks maintenance facilities	6,000	174.93	6,868	868	\$120	\$20.99	\$104,159
c	park shop yard	0	0.00	0	0	\$30	\$0.00	\$0
d	parks caretaker	0	0.00	0	0	\$60	\$0.00	\$0.00
e	restrooms-permanent	52	1.52	60	8	\$17,392	\$26.37	\$130,829
f	restrooms-temporary	0	0.00	0	0	\$1,000	\$0.00	\$0
Subtotal for facility impact		41,558	1,211.59	47,569	6,012		\$703.69	\$3,491,703
Total impact for land and facilities - per capita							\$2,164.40	\$10,739,767
Total impact for land and facilities - persons/household of					2.36	\$5,107.99		

Total value of existing park lands	\$50,102,500
Total value of existing park facilities	\$24,136,519
Total value of existing park lands and facilities	\$74,239,019

1 - This spreadsheet shows the cost the City of Lake Oswego would incur if it were to pay for all future land and facilities to meet future assuming that the City continued to maintain the same ratio of park land and facilities as in 2002. This spreadsheet does not include (other public & private providers).

2 - Inventory is composed of square footage at the Adult Community Center that may only be used for senior adults.

City of Lake Oswego ELOS (existing level-of-service) value 2000

	2000 supply	Value
Land acres	675.1	\$ 50,102,500
Facility units	41,558	24,136,519
Total		\$ 74,239,019
Per capita		\$ 2,164
Per household*		5,108

* Household of 2.36 persons/unit

City of Lake Oswego ELOS (existing level-of-service) need 2000-2015

	2000 supply	2015 reqmnt	2015 deficit	2015 cost
Land acres	675.1	772.8	97.7	\$ 7,248,064
Facility units	41,558	47,569	6,012	3,491,703
Total cost				\$ 10,739,767

Under the existing level-of-service (ELOS) for city-owned park land and facilities within existing city limits, the forecasted population increase will create a citywide need for an additional 97.7 acres of land and 6,012 facility units (square feet, courts, fields, etc.) by the year 2015. This assumes the city would continue to maintain the same ratio of park lands and facilities for the future population that the city has in the past.

The continuation of the city's existing level-of-service (ELOS) for the existing city limits could require a total of \$10,739,767 by the year 2015 simply to remain current with present standards - not accounting for any maintenance, operation or repair costs.

The approximate cost of sustaining the city's existing level-of-service (ELOS) standard would be equal to about \$2,164 per every new person added to the city's population or about \$5,108 for every new housing unit. See spreadsheet on pages 116-117.

Composite PLOS (proposed level-of-service) requirement 2000-2015

	2000 supply	2015 addns	2015 total	2015 cost
Land acres	2,342	16.0	2,358	\$ 2,100,000
Facility units	292,722	59,483	352,205	32,115,997
Total cost				\$ 34,215,997
Lake Oswego share				\$ 34,215,997
Lake Oswego share				100%

Under the composite agencies proposed level-of-service (PLOS) for all public and privately-owned park land and facilities within Lake Oswego, the forecasted population increase will create a city-wide proposal for an additional 16.0 acres of land and 59,483 facility units (square feet, courts, fields, etc.) by the year 2015 - were these agencies to supplement the existing inventory as described within this chapter rather than simply extending the same ratios into the future.

The realization of the composite agencies proposed level-of-service (PLOS) for the Lake Oswego urban growth boundary could require a total of \$34,215,997 by the year 2015 - not accounting for any maintenance, operation or repair costs. Based on the project proposals described in the plan chapters, Lake Oswego's share of the cost would be approximately \$34,215,997 or 100%. See spreadsheet on pages 121-123 for additional information.

Urban encroachments

However, if these proposals are not realized soon the present trend of urban developments may:

- encroach upon - or preclude the preservation and public accessibility of the more sensitive and appealing environmental sites, particularly within the developing urban growth boundary; and
- develop - or otherwise preclude the purchase and development of close-in, suitable lands for athletic fields, recreation centers, and other more land intensive recreational facilities.

Forcing city and urban growth boundary residents to:

- use crowded - or unavailable picnic areas, and swim or fish at crowded beaches;
- commute to play - at overcrowded existing facilities and/or reduce organized athletic programs for local youth;
- commute to use - available facilities in other jurisdictions and/or curtail programs to prevent severe overcrowding conditions in the facilities that do provide such services.

Such actions would be to the detriment of local residents who have paid the costs of developing and operating these facilities.

Financial implications

These levels of facility investment cannot be financed with the resources available to Lake Oswego, Lake Oswego School District, and other jurisdictions if each jurisdiction pursues an independent delivery approach or uses traditional methods of funding. These agencies will not be able to financially develop, manage, and maintain a comprehensive, independent park and recreation system using traditional financing methods in light of the needs projected.

These needs require a city-wide financing approach using a combination of shared user fees, excise taxes, joint grant applications, impact fees, and voter approved general obligation bonds if levels-of-service are to be maintained and improved upon in the face of continued Lake Oswego urban growth boundary population increases.

Proposed level-of-service (PLOS) additions - summary¹

Land	units	PLOS facility addtn	Facility cost /unit	PLOS - A funding required	LO funding share	LO - B funding required	Comments
1	resource conservan	acres		\$50,000	\$0	100%	\$0
2	resource activities	acres	10.0	\$75,000	\$750,000	100%	\$750,000
3	linear trails	acres	2.0	\$75,000	\$150,000	100%	\$150,000
4	athletic flds/plygrnds	acres		\$200,000	\$0	100%	\$0
5	rctn centers/pools	acres	2.0	\$400,000	\$800,000	100%	\$800,000
6	special use facilities	acres	2.0	\$200,000	\$400,000	100%	\$400,000
7	support facilities	acres		\$75,000	\$0	100%	\$0
Subtotal for land impact			16.0		\$2,100,000		\$2,100,000

* NOTE: The plan proposes an additional 16 acres of land be purchased to meet future demand based upon the assumption that existing city-owned land is available for use in the future as outlined in the plan. Should this land be used in a manner other than recommended, additional lands may need to be acquired to meet future demand.

Facilities

1	a picnic tables w/o shelter	table	83	\$7,609	\$631,547	100%	\$631,547
	b picnic shelters-group shelter	shelter	11	\$10,694	\$117,634	100%	\$117,634
2	a swimming beach	sq ft		\$0	\$0	100%	\$0
	b swimming beach	pkng sp		\$4,388	\$0	100%	\$0
3	a boat launch ramps	each	2	\$25,000	\$50,000	100%	\$50,000
	b boat launch-cartop	each	2	\$5,000	\$10,000	100%	\$10,000
	c floating platforms	sq ft	2000	\$32	\$64,000	100%	\$64,000
	d docks/piers	sq ft	1000	\$50	\$50,000	100%	\$50,000
	e boat moorage slips	each	4	\$10,000	\$40,000	100%	\$40,000
4	a power boat - launch	pkng sp		\$4,241	\$0	100%	\$0
5	a tent camping	cmpsite		\$30,935	\$0	100%	\$0
	b vehicle camping	cmpsite		\$30,454	\$0	100%	\$0
6	a park trail-asphalt	mile	5.6	\$133,216	\$746,010	100%	\$746,010
	b park trail-dirt	dirt	7.2	\$19,661	\$141,559	100%	\$141,559
7	a day hiking trail-asph	mile	22.3	\$164,623	\$3,662,862	100%	\$3,662,862
	streetscape	mile	1.4	\$1,000,000	\$1,400,000	100%	\$1,400,000
	gateways	each	8	\$50,000	\$400,000	100%	\$400,000
	gateway-crossroads	each	3	\$75,000	\$225,000	100%	\$225,000
	b day hiking trail	mile-asp		\$199,160	\$0	100%	\$0
		mile-dirt		\$19,661	\$0	100%	\$0
		mile-rock		\$56,195	\$0	100%	\$0
		mile-conc		\$250,000	\$0	100%	\$0
	c day hiking trailheads	pkng sp		included	\$0	100%	\$0
8	a backpacking trail	mile		\$47,399	\$0	100%	\$0
	b backpacking trailheads	pkng sp		\$4,241	\$0	100%	\$0
9	a bicycling trail-asphalt	mile	9.0	\$116,588	\$1,049,292	100%	\$1,049,292
		mile-dirt		\$5,809	\$0	100%	\$0
		mile-rock		\$58,294	\$0	100%	\$0
	c bicycle trailheads	pkng sp	5	included	\$0	100%	\$0
10	a bicycling shoulder-rr	mile	11.6	\$158,616	\$1,839,946	100%	\$1,839,946
	b bicycling in-lane	mile		\$17,258	\$0	100%	\$0
	c bicycling road-trailheads	pkng sp		included	\$0	100%	\$0
11	a equestrian trail	mile	3.4	\$5,517	\$18,757	100%	\$18,757
	b equestrian trailheads	pkng sp	1	included	\$0	100%	\$0
12	a playground-covered	plygrnd		\$100,000	\$0	100%	\$0
	b playground-uncovered	plygrnd	10	\$62,900	\$629,000	100%	\$629,000
13	a play area-improved	acre		\$97,054	\$0	100%	\$0
14	a skateboard court	court	2	\$100,000	\$200,000	100%	\$200,000
15	a handball-uncovered	court		\$19,723	\$0	100%	\$0
16	a basketball-covered	court		\$75,000	\$0	100%	\$0
	b basketball-uncovered	court		\$53,383	\$0	100%	\$0
17	a volleyball-covered	court		\$50,000	\$0	100%	\$0
	b volleyball-uncovered	court		\$29,224	\$0	100%	\$0
	c volleyball-sand	court	12	\$5,000	\$60,000	100%	\$60,000
18	a tennis-indoor	court		\$150,000	\$0	100%	\$0
	b tennis-outdoor lighted	court		\$95,320	\$0	100%	\$0
	c tennis-outdoor unlighted	court		\$52,481	\$0	100%	\$0
19	a football-regulation	field		\$226,436	\$0	100%	\$0
	b football-practice field	field		\$100,000	\$0	100%	\$0

Proposed level-of-service (PLOS) additions - summary¹

	units	PLOS facility addtn	Facility cost /unit	PLOS - A funding required	LO funding share	LO - B funding required	Comments
20 a soccer-regulation	fld-allwea grss/lts	5	\$172,852	\$0	100%	\$0	use agreement
	grss/lts	2	\$583,480	\$2,917,400	100%	\$2,917,400	
b soccer-youth	fld-allwea grss/lts	2	\$583,480	\$1,166,960	0%	\$0	
	upgrade	1	\$141,422	\$0	100%	\$0	
			\$70,711	\$70,711	100%	\$70,711	
21 lacrosse-grass	field		\$500,000	\$0	100%	\$0	
22 a ballfield-300 grss/lig fld grs/lig		0	\$403,612	\$0	100%	\$403,612	Lakeridge HS #1,#2 - lights use agreement
		2	\$403,612	\$807,224	0%	\$0	
		1	\$403,612	\$403,612	100%	\$403,612	
b ballfield-250+grss/ur fld dirt			\$117,965	\$0	100%	\$0	
c ballfield-250+dirt/lig field		1	\$250,000	\$250,000	100%	\$250,000	
d ballfield-250+dirt/unl field			\$175,000	\$0	100%	\$0	
	upgrade	4	\$87,500	\$350,000	100%	\$350,000	
e ballfield-nonregulatic field			\$100,000	\$0	100%	\$0	
f ballfield-200 grss field			\$203,449	\$0	100%	\$0	
g ballfield-200 dirt field			\$105,729	\$0	100%	\$0	
23 parcourse-10 stator stations			\$2,598	\$0	100%	\$0	
24 a jogging track-surfaci miles			\$61,388	\$0	100%	\$0	
b jogging track-dirt miles			\$30,000	\$0	100%	\$0	
25 a swimming pool-indo upgrade		0	\$400	\$0	100%	\$600,000	Lake Oswego HS - upgrade PCC - use agreement
	sq ft	3,000	\$400	\$1,200,000	0%	\$0	
	sq ft	6,000	\$400	\$2,400,000	100%	\$2,400,000	
b swimming pool-outd	sq ft		\$200	\$0	100%	\$0	
26 indoor gymnasium	use agrm	0	\$300	\$0	0%	\$0	Lake Oswego HS - use agreem
	sq ft	0	\$300	\$0	0%	\$0	
		10,000	\$300	\$3,000,000	100%	\$3,000,000	Lakeridge HS - use agreement
27 physical conditioning	sq ft	4,000	\$250	\$1,000,000	100%	\$1,000,000	
28 rcqutbill/hndbill (1600 each/sf			\$320,000	\$0	100%	\$0	
29 arts/crafts room	sq ft	4,000	\$270	\$1,080,000	100%	\$1,080,000	
30 class/meeting room	sq ft	2,000	\$250	\$500,000	100%	\$500,000	
31 auditorium	sq ft	4,000	\$400	\$1,600,000	100%	\$1,600,000	
32 kitchen facilities	sq ft	800	\$400	\$320,000	100%	\$320,000	
33 dining facilities	sq ft		\$200	\$0	100%	\$0	
34 a day care/nursery	sq ft	1,200	\$250	\$300,000	100%	\$300,000	
b cmtty teen	sq ft	2,000	\$250	\$500,000	100%	\$500,000	
35 a cmtty cntr administra	sq ft		\$350	\$0	100%	\$0	
b cmtty cntr administra	sq ft		\$250	\$0	100%	\$0	
36 a nature center	sq ft	5,000	\$150	\$750,000	100%	\$750,000	
b museum	sq ft	7,400	\$300	\$2,220,000	100%	\$2,220,000	
37 a golf-par 3/18 hole	hole		\$111,111	\$0	100%	\$0	
b golf-clubhouse	sq ft		\$300	\$0	100%	\$0	
c golf-maintenance	sq ft		\$90	\$0	100%	\$0	
38 a gun range-outdoor	range		\$20,000	\$0	100%	\$0	
b archery range-outdo	range		\$10,000	\$0	100%	\$0	
39 amphitheater	sq ft	3,000	\$130	\$390,000	100%	\$390,000	
40 a parks admin offices	sq ft	1,200	\$250	\$300,000	100%	\$300,000	
b parks maintenance	1sq ft	2,600	\$120	\$312,000	100%	\$312,000	
c park shop yard	sq ft		\$30	\$0	100%	\$0	
d parks caretaker	each/sf		\$60	\$0	100%	\$0	
e restrooms-permaner	fixture	64	\$17,392	\$1,113,056	100%	\$1,113,056	
f restrooms-temporar	each		\$1,000	\$0	100%	\$0	
g bulkhead restoration	each		\$25,000	\$0	100%	\$0	
h ponds restoration	each		\$25,000	\$0	100%	\$0	
Subtotal for facility impact		59,483		\$34,286,569		\$32,115,997	
Total impact for land and facilities				\$36,386,569		\$34,215,997	

1 - Shows the costs of meeting the Proposed level of service recommendations. Column "PLOS - A" lists the cost if the City were to assume full responsibility for all improvements. Column "LO - B Funding Required" outlines the costs to the City if use agreements and recommended approaches are undertaken.



Chapter 7: Plan elements

Chapter 7: Plan elements

The following proposals concerning elements of the park and recreation plan are based on the results of field analysis, environmental inventories, demand analysis, and workshop planning sessions. **Open space proposals are summarized in the March 2001 Lake Oswego Open Space Plan.**

The descriptions provided in this section describe the improvements that will be accomplished under each major type of plan element. A "plan element" is described as a specific type of recreational improvement such as picnic tables or trails. The proposals are organized by major plan elements to be provided by a site or property. Any particular park may include one or all of the following plan element features. See each plan element for a composite description for any particular site.

The proposals are conceptual, describing the possibilities envisioned in this long-range plan. In some instances, the proposals will be subject to further feasibility and siting studies.

See also the chapters on existing land and facilities or opportunities for a description of each site's current conditions, ownership, and other particulars.

7.1 Conservancies – environmental

Resource conservancy lands may be protected that retain wildlife habitat for threatened and endangered species throughout Lake Oswego. Generally, conservancy lands may conserve, restore, and provide access to wetlands, woodlands, foraging and nesting areas, migration corridors, and other unique ecological areas.

Lands may also be acquired that conserve viable wildlife habitat or migration corridors between and within developed areas including occasional wetlands, bogs, woods, ravines, and other features.

To the extent possible and practical, conservancy lands may link preserved open spaces (even though these lands may not be publicly accessible) to create wildlife migration corridors and open space networks that visually define and separate developed areas from each other in accordance with the objectives of the Oregon State Land Use Planning Act.

To the extent practical, some conservancy lands may provide nature and interpretive trails, exhibits, and interpretive facilities to increase public awareness and appreciation for significant and visually interesting wildlife features. Some supporting services may also be developed including limited wildlife viewing blinds, trailheads, parking lots, and restrooms.

Conservancy activities may be located on independent properties or include portions of other sites provided for resource activities, trail corridors, or other public facilities. Conservancies may also be developed on other publicly owned lands subject to public use agreements or easements; or on lands acquired for other public purposes including stormwater management, groundwater recharge, and wastewater treatment.

Vision

As described herein, wildlife habitat/resource conservancies may be realized through:

- acquisition of title and/or development rights of habitat lands - that would otherwise be developed for other land uses;
- provision for public access and interpretive use - which would not be possible if the lands remained in private ownership; and
- conservation for wildlife migration corridors - through developing urban areas and neighborhoods.

Existing and proposed conservancy sites

See the March 2001 Lake Oswego Open Space Plan for a description of existing public, nonprofit, homeowner association, private, and other conservancy and open space properties, and proposals for additional conservancies.

7.2 Conservancies - historical

Resource properties may be protected that retain and preserve significant historical and cultural sites and facilities throughout Lake Oswego. Generally, historical conservancy properties may be acquired that conserve and provide interpretive access to significant sites including original homesteads or prominent building sites, commercial or public buildings of unique architectural characteristics, locations of important industrial or resource oriented activities, and other culturally important areas. Lands may also be acquired that conserve significant man-made constructions on the land including bridges, dikes, dams, and other features.

To the extent possible and practical, historical sites and buildings will be linked with other park lands to create activity centers or facilities that reflect the original cultural use. In some instances, the buildings or sites may be adapted to provide supporting services such as trailheads, parking lots, restrooms, and utilities.

To the extent possible and practical, historical buildings and structures will be conserved on their original sites. In some instances, however, the buildings or other improvements may be relocated to other public properties in order to better conserve, display, or provide interpretive access.

To the extent practical and protecting of archaeological significance, historical or archaeological sites may be marked or signed as part of the conservancy park element. Interpretive signs may be located off-site or in areas that do not risk exposure or possible vandalism of underlying archaeological resources or properties (including private lands).

Vision

As described herein, historical conservancies may be realized through:

- acquisition of title and/or development rights of properties that would otherwise be destroyed or developed for other land uses; and
- provision for public access and interpretive use which would not be possible if the properties remained in private ownership; and

- provision for signing and interpretation subject to appropriate security measures and underlying property owner agreements.

Existing historical/cultural sites

The following sites contain features or improvements with significant historical or cultural value that are listed in the city's landmark designation list or on the cultural resources inventory and acquired by the city.

1	Oregon Iron Company mineshfts	Iron Mountain Natural Area - the site includes the historic iron ore mines including remnants of the water tower and platform adjacent to the old mineshfts.	35.7
2	Oregon Iron Company stack	George Rogers Park at the end of Furnace and Green Street - remnants of the first 1865 pig iron smelter. Ore was mined from Iron Mountain, transported to the site by oxen, and later by narrow gauge railroad, and power by water from Oswego Creek.	1.0
3	Luscher Farm	On the edge of the urban growth boundary at Stafford and Rosemont. Luscher farm with farmhouse, garage and bunkhouse, chicken coop, workshop/pump house, and barn; Taylor farm; Farr Property	57.5
4	Willamette Shore Trolley	Lake Oswego to downtown Portland on west bank of the Willamette River - established in 1885-1887 as the Portland & Willamette Valley Railroad, operating as a regular gauge trolley line in 1888. The line was later purchased by the Southern Pacific Railroad, electrified in 1914, and peaked in 1920 running 64 "Red Electrics" on a daily basis. In 1984, the line was abandoned and purchased by the non-profit Portland Friends of the Willamette River Greenway. The Oregon Electric Railway Historical Society (OERHS) operates the trolley service.	24.2
5	Oswego Fire Bell	Lake Oswego Fire Station at 3rd Street and B Avenue - a school bell, mounted in 1910 on a steel water tower, to provide fire alarm for the first bucket and ladder brigade.	Na

Total acres*

118.4

* Total acreage includes portions devoted to historical purposes. Sites may also include characteristics that may be listed under other plan element proposals.

Listed historical/cultural sites

The following sites contain features or improvements with important historical or cultural value that have been listed in the city's landmark designation list or cultural resources inventory and may be noted with historical plaques. These properties are owned by a variety of public and private parties, but could be preserved under a variety of land use, easements, or acquisitions if appropriate.

6	Old Peg Tree	North side of Leonard Street between Durham & Furnace Streets - lanterns were hung on a peg on this tree to provide light for early meetings in Old Town.	Na
7	Carman-Wilmot Home	3811 Carman Drive - built in 1860, believed to be one of the first region houses with running water.	Na
8	Methodist Episcopal Church	156 Greenwood Road - built in 1894 as a one room building on State Street, moved and erected over a foundation with a steeple.	Na
9	Carter Home	17901 Stafford Road - built in 1881, is the finest example of the Italianate style in the city.	Na
10	Odd Fellows Hall	295 Durham Street - built in 1890 to accommodate the fraternal organization's meetings and dances on the second floor.	Na
11	Meridian United Church of Christ	Stafford & Boekman Road - built in 1880 as "Frogpond Church" or "Deutsche Reformerte Meridien Gemeinde" for settlers.	Na
12	Lake Oswego Giant Sequoia	A Avenue and 5th Street - the city Christmas tree dedicated in memory of Mary Goodall Ramsey, 1899-1989, former City Councilor and founder of the Oswego Heritage Council and Arts Festival.	Na
13	Durham's Mill	East end of bridge across Oswego (Sucker) Creek on McVey Avenue - site of the city's first industry, a sawmill, in 1850 by Albert Alonzo Durham on this portion of his 637 donation Land Grant which included Old Town and much of East Oswego.	Na
14	Trullinger Cast Pig Iron Street Marker	Ladd and Durham Streets - John Corse Trullinger buried a pig iron monument at this site when filing the first Oswego town plat of record in 1867. The iron pig was the first casting from the Oregon Iron Company.	Na

15	Durham Home	Durham & Leonard Streets – built in 1849 to house Albert Alonzo Durham, the first white settler in the city and founder of the sawmill.	Na
16	Koehler House	2nd Street and B Avenue – built in 1907 for Henry Koehler, town blacksmith, carriage builder, and Sheriff of Clackamas County. The second floor of the house, “Koehler’s Hall” hosted square dances, socials, and the city’s first city hall.	Na
17	Oregon Iron & Steel Company	Front entry wall of Ram Brew Pub on Oswego Pointe Drive – location of 1888 Oregon Iron & Steel smelter, a 160-foot chimney visible for 4 miles, replaced the 1865 smelter located at the mouth of Oswego Creek – the first smelter in the Pacific Coast.	Na
18	Lakewood School (Oswego Grammar School)	State Street – built in 1928 in the Classic Revival style to replace the first public school built on the site in 1893. Acquired in 1979 by the Lakewood Community Theatre (Lakewood Center for the Arts) and retrofitted to provide theaters, studios, and gallery. The building is the oldest public building in continuous use in the city.	8.0
19	Murphy Company Building (Oswego Heritage House)	398 10th Street at A Avenue – built in 1920 by Paul Murphy in the Colonial Revival style to house his real estate development and sales business. Acquired in 1997 by the Oswego Heritage Council and restored to house historic archives, library, museum, office, and meeting space.	1.0
20	Sacred Heart Catholic Church	E Avenue & 1st Street – built in 1890, the first church in the city and the sole or oldest surviving church from the 19th century. The building’s Gothic Revival style includes gable roof, pointed arched windows, and the transom entry doors – restored by the current residential occupants.	Na

21	Oswego Pioneer Cemetery	Stafford Road - donated in 1892 by George Prosser to the Oregon Iron & Steel Company, then to the Methodist Church, then the Independent Order of Odd Fellows, and ultimately to the Oswego Pioneer Cemetery Association in 1977. City's first mayors, iron workers, and other pioneer families are interned on the site.	5.0
22	Bryant Homestead	Bryant Road and Jean Road - the original 1853 home site of Charles Wesley Bryant who traveled to the city by wagon train. The site is significant as a symbol of early settlement in Lake Oswego.	Na
23	Marylhurst College	Between Old River Road and Highway 43 - founded as a religious institution in 1859 and as a liberal arts college in 1893 on the banks of the Willamette River. The campus contains a number of historic educational buildings and facilities that are in current use.	80.0
24	Oswego Canal	Connecting the Tualatin River to Oswego Lake - the Tualatin River Navigation and Manufacturing Company was formed in 1869 to build a canal connecting Oswego Lake to the Tualatin River to facilitate the transporting of logs, farm products, and other commodities to Portland markets. The canal was completed in 1872, raising the lake and increasing its length from 2.75 to 3.5 miles. Mule teams and laborers drug logs through the canal to the river, then to the smelter and sawmills located on Oswego Canal and Pointe.	Na
25	Oswego Dam	At the east end of Oswego Lake - Oswego Creek was dammed in 1857 to provide water power for Durham's sawmill, and later to provide power for the Oregon Iron & Steel Company smelters.	Na

Total sites* **94.0**

*Sites include portions providing historical resource value. Sites may also include characteristics that may be listed under other plan element proposals.



**City of Lake Oswego
Parks and Recreation
Master Plan**

**Conservancies -
Historical**

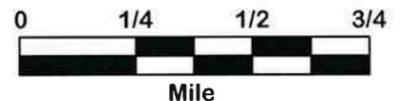
- Designated - Public Ownership
- Designated - Private Ownership

- Designated - Public Ownership
1. Oregon Iron Company Mineshafts
 2. Oregon Iron Company Smelter
 3. Luscher Farm
 4. Willamette Shore Trolley
 5. Oswego Fire Bell

- Designated - Private Ownership
6. Old Peg Tree
 7. Carman-Wilmot Home
 8. Methodist Episcopal
 9. Carter Home
 10. Odd Fellows Hall
 11. Meridian United Church of Christ
 12. Lake Oswego Giant Sequoia
 13. Durham's Mill
 14. Trullinger Cast Pig Iron Marker
 15. Durham House
 16. Koehler House
 17. Oregon Iron and Steel Company
 18. Lakewood School
 19. Murphy Company Building
 20. Sacred Heart Catholic Church
 21. Oswego Pioneer Cemetery
 22. Bryant Homestead
 23. Marylhurst University
 24. Oswego Canal
 25. Oswego Dam



Geographic
Information
Services



7.3 Resource parks

Resource lands may be conserved in Lake Oswego that provide public access to significant environmental features. Generally, environmental resource activity parks may provide access to significant streams, wetlands, woodlands, other unique ecological and wildlife habitats, and scenic areas.

To the extent possible and practical, resource lands will be linked with other preserved open spaces (even though these lands may not be publicly accessible) to create open space networks that visually define and separate developed urban areas from each other and the surrounding rural landscapes in accordance with the objectives of the Oregon State Land Use Law. Greenway corridors will also be located to provide migration routes for wildlife between urban areas and significant habitats.

To the extent practical, resource lands may also be traversed and linked by all types of trail corridors to increase access to and through significant and visually interesting features.

Resource-oriented facilities may be developed that provide public use and enjoyment of appropriate and capable portions of environmental resource sites throughout Lake Oswego. Water-oriented resource activity improvements may provide a distribution of swimming and sunbathing sites, fishing piers, docks, and boat launches.

Where appropriate, resource-oriented sites may also be improved with a variety of outdoor facilities including group and individual campsites, picnic facilities, playgrounds, and open grassy play areas. Supporting services may also be developed including parking lots, restrooms, and utilities.

Resource activities may be located on independent properties or include portions of other sites provided for resource conservancies, trail corridors, athletic facilities or other public facilities. Resource activities may also be developed on other publicly-owned lands subject to public use agreements or easements; or on lands acquired for other public purposes including stormwater management detention and retention ponds, and wastewater treatment sites.

Vision

As described herein, the resource activities vision will be realized through:

- acquisition of resource lands - that would otherwise be developed for other land uses;
- provision of public access - and use of natural features which would not be possible if the lands remained in private ownership; and
- conservation for public access - and use of unique and available natural features that visually define and separate developed areas and neighborhoods.

Powerboat launch ramps

Abandoned sites

a	South Shore Blvd	Former boat launch located on the southwest shore of Oswego Lake - no longer usable due to road realignment.	0
b	Lakewood Bay	Former boat launch located on the southwest shore of Lakewood Bay - no longer usable due to limited roadway access.	0
c	George Rogers Park	Former boat launch ramp located on the west side of the Willamette River in George Rogers park - closed at request of Oregon State Marine Board.	0
Total abandoned sites			3

Existing operational sites

1	Lake Grove Swim Park	Day use docks and moorage provided at east end of the lake - available for parties and school use. <i>Owned and operated by separate park district for Lake Grove residents only.</i>	1
2	Lake Oswego Marina Park	Hoist launch with permanent and day use docks and moorage provided at the east end of the lake - <i>Lake Corporation members only.</i>	1
3	Tualatin Community Park	Boat launch ramp provided on the north side of the Tualatin River near Upper Boones Ferry Road Bridge - 11 miles up river.	1
4	Willamette-Bernert Park - West Linn	Boat launch ramp provided on the north side of the Tualatin River at the juncture with the Willamette River in West Linn - 5 miles up river.	1
5	16th Street - Oregon City	Boat launch provided at the end of 16th Street on the east side of the Willamette River adjacent to I-205 bridge in Oregon City - 4 miles up river.	1
6	Cedar Park - West Linn	Boat launch provided adjacent to Cedar Island on the west side of the Willamette River in West Linn - 2 miles up river.	1
7	Waterfront Park - Milwaukie	Boat launch provided at the mouth of Kellogg Creek on the east side of the Willamette River in Milwaukie - 3 miles down river.	1

Powerboat launch ramps (cont.)

Existing operational sites (cont.)

8	Willamette Moorage Park - Portland	Boat launch ramps, permanent and transitory moorage and docking provided in south Portland on the west side of the Willamette River in Willamette Park and in a nearby location next to Sellwood Bridge - 8 miles down river.	2
9	Governor Tom McCall Waterfront Park - Portland	Boat launch hoist and ramp, permanent and transitory moorage and docking provided in downtown Portland on the west side of the Willamette River near Riverplace and Marquam Bridge - 12 miles down river.	1

Total ramps 10

Proposed sites

11	Roehr Park	Boat launch ramps and transient moorage to be developed with the northern expansion of the park along the west shoreline of the Willamette River.	2
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Total ramps 2



City of Lake Oswego
Parks and Recreation
Master Plan

Powerboat
launch ramps

- Existing launch ramps
- Proposed launch ramps
- Abandoned ramps

Existing Ramps in City

1. Lake Grove Swim Park (public)
2. Lake Oswego Marine Park (private)

Proposed Launch Ramps

3. Roehr Park Addition

Abandoned Ramp Sites

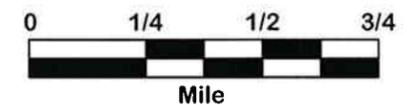
- a. South Shore Road
- b. Lakewood Bay
- c. George Rogers Park

Other ramps (outside City)

- Tualatin Community Park
- Willamette-Bernert Park - West Linn
- 16th Street - Oregon City
- Cedar Park - West Linn
- Waterfront Park - Milwaukie
- Willamette Marina Park - Portland
- Tom McCall Waterfront Park - Portland



Geographic
Information
Services



Handcarry launch sites

Private - Lake Corporation sites

a	Lakewood Bay - North Shore Road	Former boat launch located on the southwest shore of Lakewood Bay - gated and no longer used.	1
b	Diamond Head	Street-end located on the north shore of Oswego Lake east of Lilly Bay.	1
c	Oswego Shore	Street-end located on the north shore of Oswego Lake.	1
d	Springbrook Dr	Street right-of-way located on the north shore of Oswego Lake.	1
e	South Shore Blvd	Former boat launch located on the southwest shore of Oswego Lake - no longer usable due to road realignment.	1
f	Maple - Blue Heron	Launch and storage site located at the west end of the lake off South Shore Boulevard.	1

Total sites

6

Existing public sites

1	Tualatin Community Park	Launch site provided on the north side of the Tualatin River near Upper Boones Ferry Road Bridge - 11 miles up river.	1
2	Willamette-Bernert Park - West Linn	Launch site provided on the north side of the Tualatin River at the juncture with the Willamette River in West Linn - 5 miles up river.	1
3	16th Street - Oregon City	Launch site provided at the end of 16th Street on the east side of the Willamette River adjacent to I-205 bridge in Oregon City - 4 miles up river.	1
4	Cedar Park - West Linn	Launch site provided adjacent to Cedar Island on the west side of the Willamette River in West Linn - 2 miles up river.	1
5	George Rogers Park	Undeveloped launch site provided on the west side of the Willamette River close to the Oswego Lake outlet.	1
6	Water Sports Center	Boathouse, floats, and docks for launch, storage, and competition of kayak, canoe, and crew with offices and overhead viewing platforms provided on the west side of the Willamette River.	1

Handcarry launch sites (cont.)

Existing public sites (cont.)

7	Roehr Park	Dock and launch site provided adjacent to the amphitheater on the west side of the Willamette River.	1
8	Waterfront Park - Milwaukie	Launch site provided at the mouth of Kellogg Creek on the east side of the Willamette River in Milwaukie - 3 miles down river.	1
9	Willamette Moorage Park - Portland	Launch sites provided in south Portland on the west side of the Willamette River in Willamette Park and in a nearby location next to Sellwood Bridge - 8 miles down river.	2
10	Governor Tom McCall Waterfront Park - Portland	Boat launch hoist and ramp, permanent and transitory moorage and docking provided in downtown Portland on the west side of the Willamette River near Riverplace and Marquam Bridge - 12 miles down river.	1
Total launch sites			11

Proposed

11	River Run Park	Launch site to be provided on the east side of Oswego Canal adjacent to the control gate to provide access into the Tualatin River - and subject to permission, access through Oswego Lake to the outlet into the Willamette River or from River Run Park.	1
12	Roehr Park	Launch site to be developed with the northern expansion of the park.	1
Total launch sites			2



**City of Lake Oswego
Parks and Recreation
Master Plan**

**Handcarry Boat
Launch Sites**

- Private Launch Site
- Existing Public Launch Sites
- Proposed Public Launch Sites

Private Launch Sites

- a. Lakewood Bay
- b. Diamond Head
- c. Oswego Shore
- d. Springbrook Drive
- e. South Shore Boulevard
- f. Maple - Blue Heron

Existing Public Sites in City

- 1. George Rogers Park
- 2. Water Sports Center
- 3. Roehr Park

Proposed Public Launch Sites

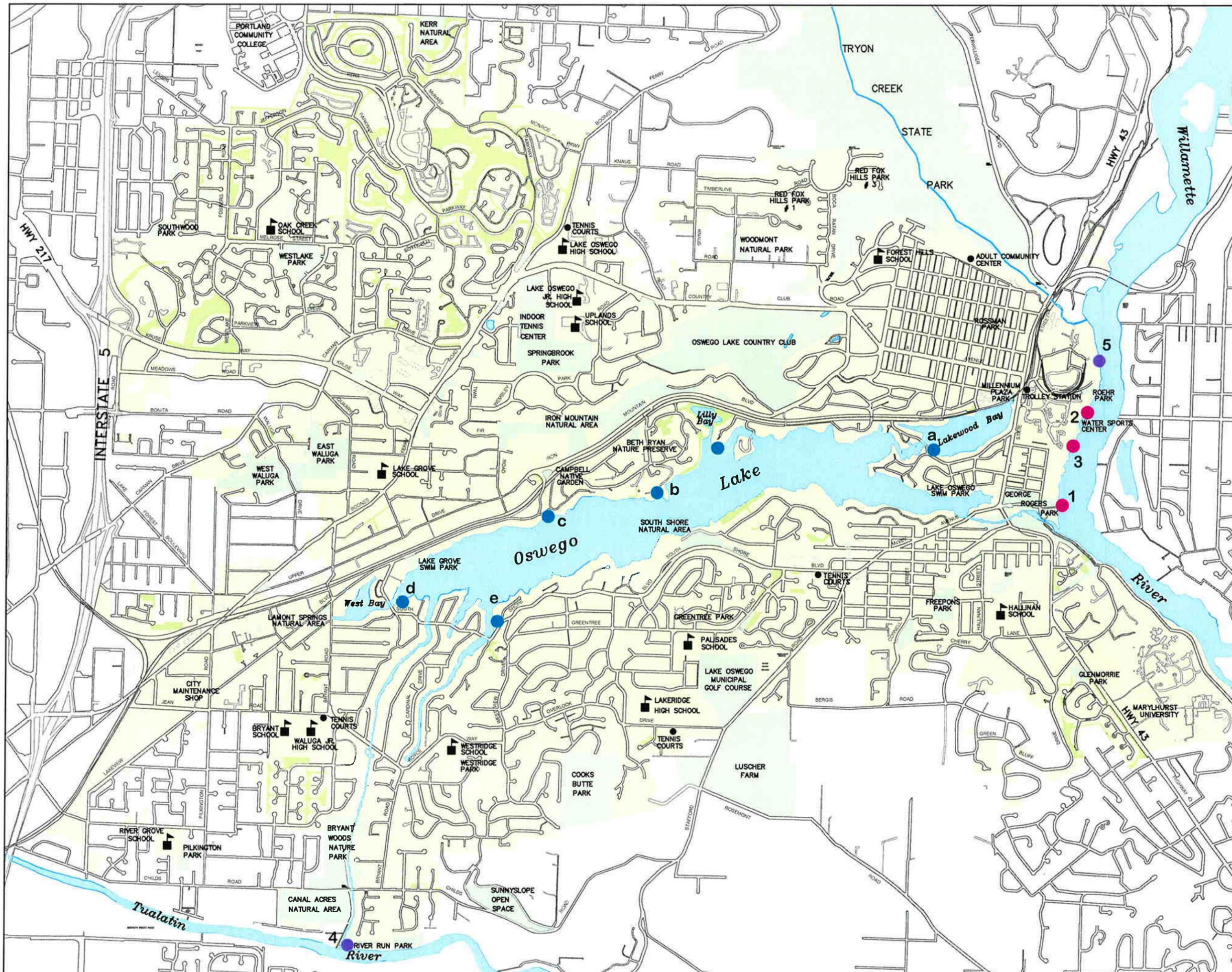
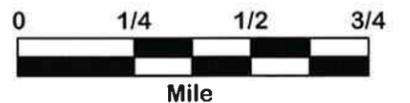
- 4. River Run Park
- 5. Roehr Park Addition

Other Launch Sites (outside City)

- Tualatin Community Park
- Willamette-Bernert Park - West Linn
- 16th Street - Oregon City
- Cedar Park - West Linn
- Waterfront Park - Milwaukie
- Willamette Moorage Park - Portland
- Tom McCall Waterfront Park - Portland



Geographic
Information
Services



Waterfront access points and swimming beaches

Private

a	Forest Hills Easement	Street right-of-way located on the north shore of Oswego Lake for the benefit of residents of the Forest Hills development	1
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Total access points 1

Existing publicly accessible

1	Lake Oswego Swim Park	Outdoor swimming beach with floats, docks, lifeguards, picnic tables, grassy play area, portable toilets located on the east end of Lake Oswego.	1
2	Lake Grove Swim Park	Outdoor swimming beach with floats, docks, lifeguards, wading pool, picnic tables and shelters, grassy play area, horseshoes, volleyball court, and restrooms located on the west end of Lake Oswego -- available for parties and school use. <i>Owned/operated by separate park district for Lake Grove residents only</i>	1
3	George Rogers Park	Sandy beach wading, swimming, and fishing access located at the Oswego Lake outlet into the Willamette River.	1
4	Roehr Park	Docking and fishing access pier provided in front of the amphitheater on the west side of the Willamette River.	1

Total number access points 4

Proposed

5	Roehr Park Addition - Tryon Creek	Shoreline and fishing access to be provided at the mouth of Tryon Creek on the west shore of the Willamette River with the expansion of Roehr Park.	1
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Total access points 1



City of Lake Oswego Parks and Recreation Master Plan

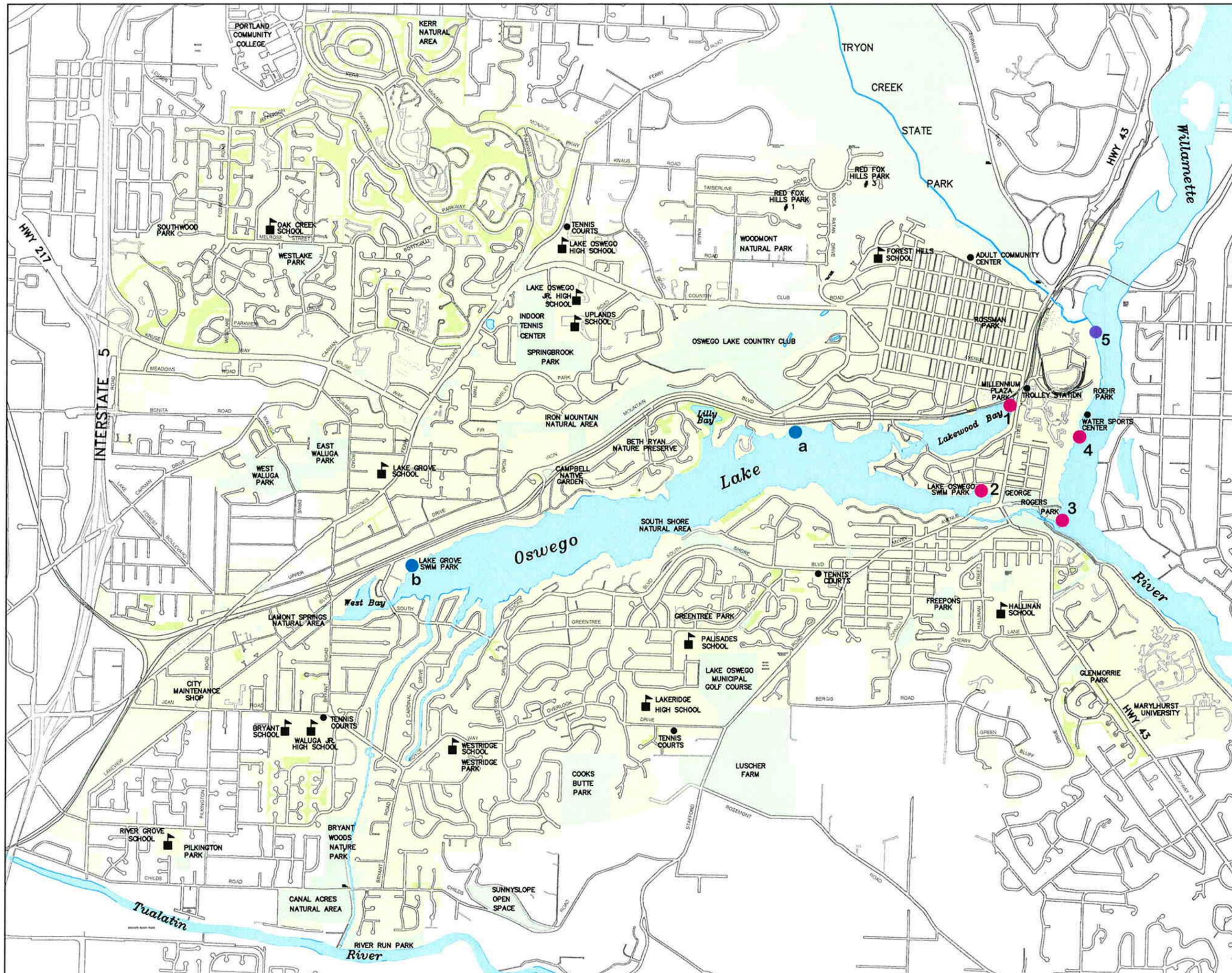
Waterfront Access and Swimming Beaches

- Existing Private Waterfront Access
- Existing Public Waterfront Access
- Proposed Waterfront Access

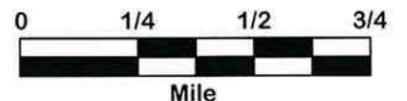
Private Waterfront Access
 a. Forest Hills Easement
 b. Lake Grove Swim Park

Existing Public Waterfront Access
 1. Millennium Park
 2. Lake Oswego Swim Park
 3. George Rogers Park
 4. Roehr Park

Proposed Waterfront Access
 5. Roehr Park Addition - Tryon Creek



Geographic
Information
Services



Picnic facilities - tables

Existing

1	Millennium Park	Picnic areas are provided under the pergola next to the reflecting pool in the upper portion of the park, and adjacent to the water fountain at the edge of Lakewood Bay.	11
2	George Rogers Park	Picnic areas are provided adjacent to the playground and athletic fields in the upper portions of the park, and next to the historic iron ore smelter and grassy play area in the lower portion of the park.	11
3	Roehr Park	Picnic areas are provided next to the multipurpose riverfront trail and in the viewpoint areas at the amphitheater.	4
4	Rossman Park	A picnic table is located adjacent to the playground, half basketball court, and horseshoe pit.	1
5	West Waluga Park	Picnic areas are provided next to the grassy play area and nature trails on the west end of the park.	6
6	East Waluga Park	Picnic areas are provided next to the athletic fields and playground at the east end of the park.	6
7	Westlake Park	Picnic areas are provided next to the athletic fields and tennis courts.	6
8	Pilkington Park	Picnic areas are provided next to the grassy play area and trails.	4
9	Bryant Woods Park	Picnic tables are provided next to the trailhead parking area at the south end of the park adjacent to Childs Road.	2
10	Westridge Park	Picnic tables are provided next to the volleyball court and playground.	4
11	Freepons Park	Picnic tables are provided next to the playground.	2
12	Lamont Springs Natural Area	Picnic tables are provided alongside the nature trail.	2
13	Tryon Creek State Park	Picnic tables are provided next to the interpretive center at the trailhead off Terwilliger Boulevard.	24
14	Lake Oswego Swim Park	Picnic area provided next to the grassy play area and portable restrooms located on the east end of Lake Oswego - owned by the city and open to the public.	12

15	Lake Grove Swim Park	Picnic area provided next to the grassy play area, horseshoes, volleyball court, and restrooms located on the west end of Lake Oswego - owned/operated by separate park district for Lake Grove residents only - available for parties and school use.	12
16	Mount Sylvania Park	Picnic area provided next to playground for HOA only.	2

Total tables

109

Proposed

2	George Rogers Park	Develop additional picnic areas along the river's edge adjacent to the sandy beach, and at the south end of the park adjacent to the old dolphin/house.	10
3	Roehr Park Addition	Develop additional picnic areas in the park expansion area along the shoreline north to Tryon Creek.	12
18	Hallinan Park	Install picnic tables adjacent to school boundary.	2
19	Cornell Park	Install picnic table next to park trails.	1
20	South Shore Natural Area	Install picnic tables next to South Shore Drive overlook.	2
21	Luscher Farm	Develop group picnic facilities adjacent to barn and homestead, and in wooded area next to small barn on Stafford Road.	20
22	Cooks Butte Park	Develop picnic area adjacent to trailhead parking area.	6
23	River Run Park	Develop picnic area at overlook juncture of Oswego Canal and Tualatin River.	4
24	Southwood Park	Develop picnic area at trailhead parking area.	4
25	Springbrook Park	Develop picnic areas adjacent to Indoor Tennis Center and at end of the walking trails around the elementary and junior high school sites.	10
26	Red Fox Hills Park #1	Install picnic table next to playground.	1
27	Red Fox Hills Park #3	Install picnic table next to playground.	1
28	Adult Community Center	Develop group picnic facility adjacent to center and access trails into Tryon Creek State Park.	10

Total tables

83



City of Lake Oswego Parks and Recreation Master Plan

Picnic Tables

- Existing Private Picnic Tables
- Existing Public Picnic Tables
- Proposed Picnic Tables

Existing Private Picnic Tables

- a. Lake Grove Swim Park

Existing Public Picnic Tables

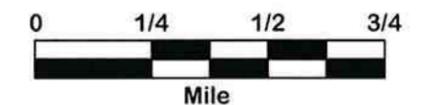
1. Millennium Park
2. George Rogers Park
3. Roehr Park
4. Rossman Park
5. West Waluga Park
6. East Waluga Park
7. Westlake Park
8. Pilkington Park
9. Bryant Woods Nature Park
10. Westridge Park
11. Freepons Park
12. Iron Mountain Park
13. Lamont Springs Natural Area
14. Tryon Creek State Park
15. Lake Oswego Swim Park
16. Mount Sylvania Park (City of Portland)

Proposed Picnic Tables

17. George Rogers Park
18. Roehr Park Addition
19. Hallinan Natural Area
20. Cornell Natural Area
21. South Shore Natural Area
22. Cooks Butte Park
23. River Run Park
24. Southwood Park
25. Springbrook Park
26. Red Fox Hills Park #1
27. Red Fox Hills Park #3
28. Adult Community Center
29. Luscher Farm



Geographic
Information
Services



Picnic facilities - shelters

Existing

1	Millennium Park	Picnic shelter with kitchen and restrooms is provided next to the reflecting pool in the upper portion of the park overlooking Lakewood Bay.	1
2	George Rogers Park	Picnic shelters are provided at the playground and athletic fields in the upper portions of the park, and next to the historic iron ore smelter and grassy play area in the lower portion.	2
3	Rossman Park	A picnic shelter is located adjacent to the playground, half basketball court, and horseshoe pit.	1
4	West Waluga Park	Picnic shelter is provided next to the grassy play area and nature trails on the west end of the park.	1
5	East Waluga Park	Picnic shelter is provided next to the athletic fields and playground at the east end of the park.	1
6	Westlake Park	Picnic shelter is next to the athletic fields and tennis courts.	1
Total shelters			7

Proposed

7	Lake Oswego Swim Park	Develop picnic shelter next to the grassy play area and portable restrooms located on the east end of Oswego Lake.	2
8	Lake Grove Swim Park	Develop picnic shelters next to the grassy play area, horseshoes, volleyball court, and restrooms located on the west end of Oswego Lake.	2
9	Roehr Park Addition	Develop picnic shelter with the northern expansion of the park along the riverfront.	1
10	Luscher Farm	Develop picnic shelters and group picnic facilities adjacent to the barn at the farmstead and in the wooded grove next to Stafford Road.	2
11	Pilkington Park	Develop a shelter adjacent to the grassy play area.	1
12	Westlake Park	Develop a shelter next to the recreational courts and athletic fields.	1
13	Springbrook Park	Develop a shelter next to the walking trails and athletic fields on the junior high school site.	1
14	Adult Community Center	Develop a group shelter next to the center and the access trails to Tryon Creek State Park.	1
Total shelters			11



City of Lake Oswego Parks and Recreation Master Plan

Picnic Shelters

- Existing Picnic Shelters
- Proposed Picnic Shelters

Existing Picnic Shelters

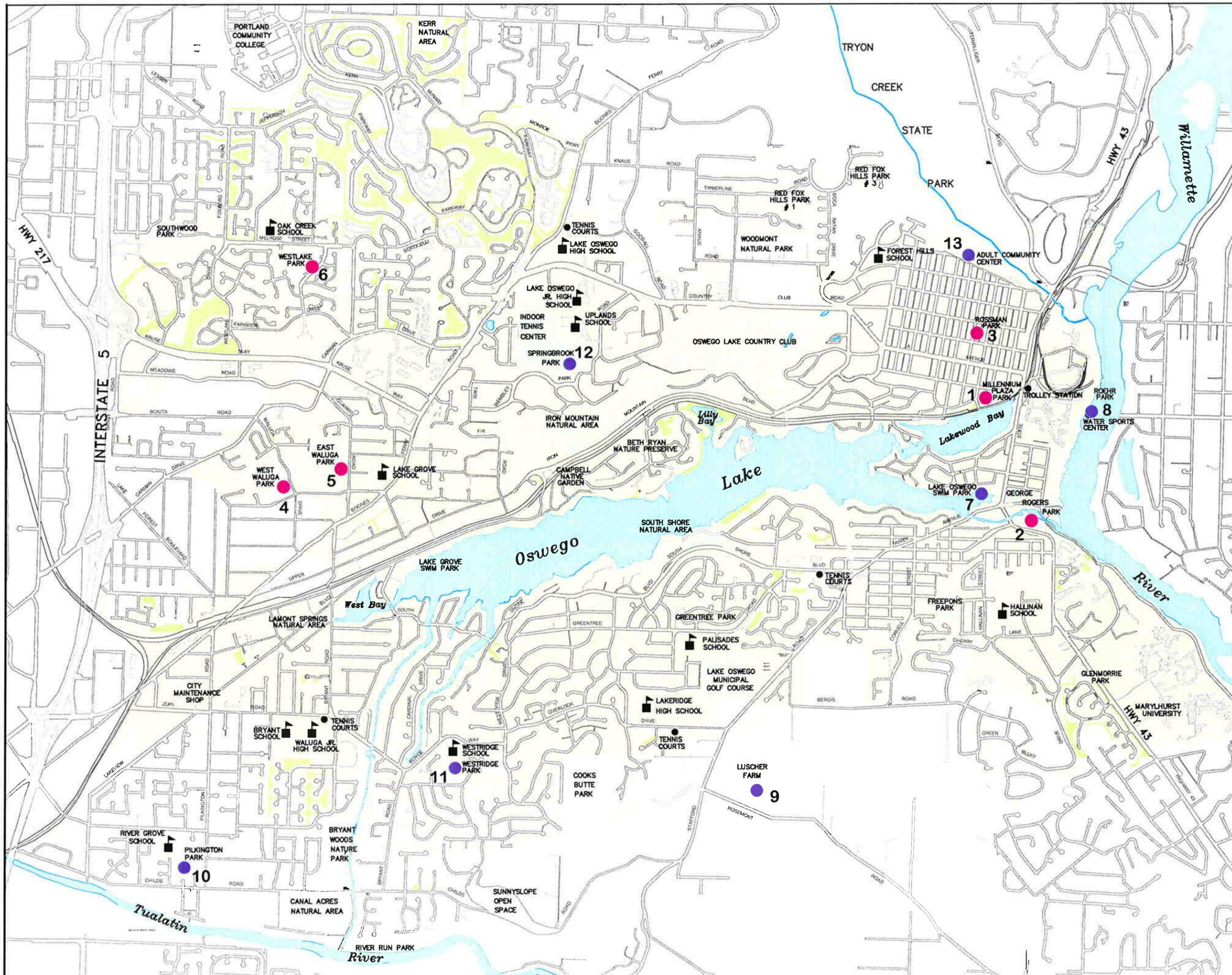
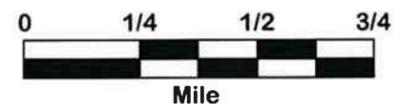
1. Millennium Park
2. George Rogers Park
3. Rossman Park
4. West Waluga Park
5. East Waluga Park
6. Westlake Park

Proposed Picnic Shelters

7. Lake Oswego Swim Park
8. Roehr Park
9. Luscher Park
10. Pilkington Park
11. West Ridge Park
12. Springbrook Park
13. Adult Community Center



Geographic
Information
Services



7.4 Water trails

A water access system may be developed for dory, sportyak, canoes, kayaks, and other car-top boating activities. The water trails may provide access to freshwater bodies that are not readily accessible or suitable for powerboats or other larger watercraft.

Where possible, water trailheads may be located to coincide with and use other trail corridors, resource conservancies, and other park and recreational facility services including parking lots, restrooms, and utilities. When provided on separate sites, water trailheads may be improved with launch ramps or landings, picnic tables, parking lots, restrooms, and other services.

Some of the water trails proposed in this plan along the Willamette and Tualatin Rivers have been identified by paddle boat enthusiasts working in conjunction with state, federal, and other boating interest groups.

Vision

As described, the water trail vision may:

- increase and promote public access to the area's significant fresh water resources - particularly for car-top boating enthusiasts;
- to scenic natural areas and features of interest that can not be accessed from other trail systems;
- for boating enthusiasts of all skill levels; and
- for extended boating duration including the possibility of overnight trips.

Water trails

Existing water trail system

The following or comparable water trails have been developed as part of a regional system with supporting trailheads and services acquired and managed by the state, counties, cities or other agency in cooperative ventures:

1	Tualatin River	Novice skills canoe route with speeds under 2 mph from Scholls to Schamberg Bridge west of Tualatin.	11.0
2	Tualatin River	Novice skills canoe route with speeds under 2 mph from Schamberg Bridge west of Tualatin to George Rogers Park on the Willamette River in Lake Oswego.	11.0
3	Clackamas River	Advanced skills canoe route with speeds over 4 mph from McIver State Park to Clackamette Park at the juncture with the Willamette River in Oregon City.	19.5
4	Willamette River	Novice skills canoe route with speeds under 2 mph from Wheatland Ferry to St Paul.	15.0
5	Willamette River	Novice skills canoe route with speeds under 2 mph from St Paul to Champoeg State Park.	11.0
6	Willamette River	Novice skills canoe route with speeds under 2 mph from Champoeg State Park to Molalla State Park.	10.0

Water trails (cont.)

Existing water trail system (cont.)

7	Willamette River	Novice skills canoe route with speeds under 2 mph from Molalla State Park to Willamette-Bernert Park in West Linn.	7.0
8	Willamette River	Novice skills canoe route with speeds under 2 mph from Willamette-Bernert Park in West Linn to George Rogers Park in Lake Oswego.	7.0
9	Willamette River	Novice skills canoe route with speeds under 2 mph from George Rogers Park in Lake Oswego to Willamette Moorage Park in south Portland.	5.0
10	Willamette River	Novice skills canoe route with speeds under 2 mph from Willamette Moorage Park to Governor Tom McCall Waterfront Park in downtown Portland to Kelley Point on the Columbia River.	9.0
Total miles			105.5

Proposed water trail system

The following water trail may be developed with the cooperation of the Lake Corporation for public use during special events and/or seasons:

11	Oswego Canal-Oswego Lake	Novice skills canoe route with speeds under 2 mph from the head gate on the Oswego Canal at River Run Park through Oswego Lake to the dam and lake outlet into George Rogers Park at North State Street.	4.5
Total miles			4.5



City of Lake Oswego Parks and Recreation Master Plan

Water Trails

- Existing Public Launch Sites
- Proposed Public Launch Sites
- Existing Water Trails
- Proposed Water Trails

Existing Tualatin River - Outside City

1. Scholls / Schamberg
2. Schamberg / Willamette-Bernert Park

Existing Clackamas River - Outside City

3. McIver State Park / Clackamette Park

Existing Willamette River - Outside City

4. Wheatland Ferry / St Paul
5. St Paul / Champeog State Park
6. Champeog State Park / Molalla State Park
7. Molalla State Park / Willamette-Bernert Park
10. Willamette Park / Kolloy Point

Existing Willamette River - Inside City

8. Willamette-Bernert Park / George Rogers
9. George Rogers Park / Willamette Park

Proposed Oswego Lake - In City

11. Oswego Canal / Oswego Lake

Existing Launch Sites - Outside City

- a. Tualatin Community Park
- b. 16th Street - Oregon City
- c. Cedar Park - West Linn
- g. Oak Grove Street - Johnson City
- h. Waterfront Park - Milwaukie
- i. Willamette Park - Portland
- j. Gov Tom McCall Park - Portland

Existing Launch Sites - In City

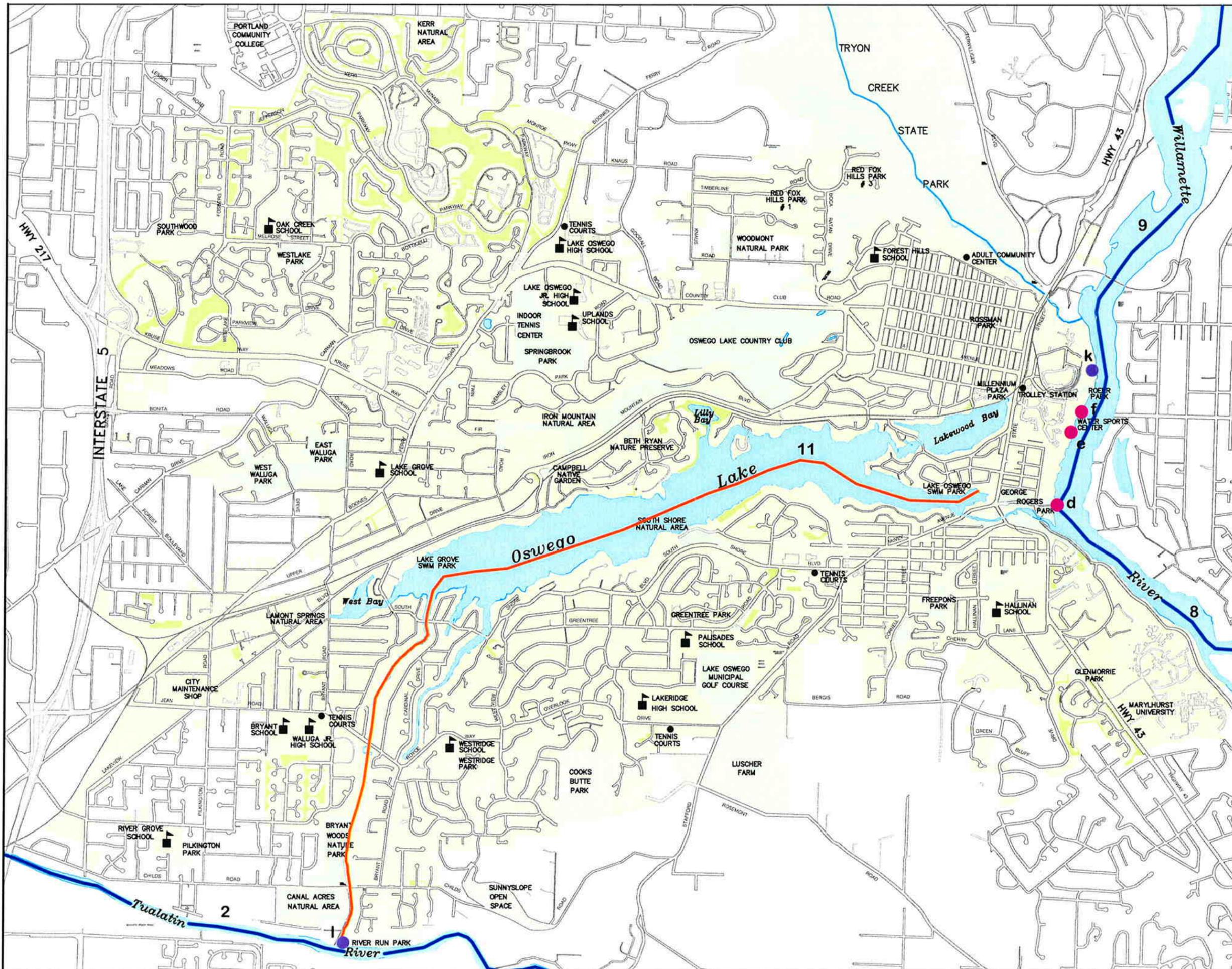
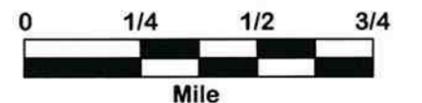
- d. George Rogers Park
- e. Water Sports Center
- f. Roehr Park

Proposed Launch Sites - In City

- k. Roehr Park Addition
- l. River Run Park



Geographic
Information
Services



Water trail access sites

Existing

a	Tualatin Community Park	Launch site provided on the north side of the Tualatin River near Upper Boones Ferry Road Bridge - 1 mile up river.	1
b	16th Street - Oregon City	Launch site provided at the end of 16th Street on the east side of the Willamette River adjacent to I-205 bridge in Oregon City - 4 miles up river.	1
c	Cedar Park - West Linn	Launch site provided adjacent to Cedar Island on the west side of the Willamette River in West Linn - 2 miles up river.	1
d	George Rogers Park	Launch site provided on the west side of the Willamette River close to the Oswego Lake outlet.	1
e	Water Sports Center	Boathouse, floats, and docks for launch, storage, and competition of kayak, canoe, and crew with offices and overhead viewing platforms provided on the west side of the Willamette River.	1
f	Roehr Park	Dock and launch site provided adjacent to the amphitheater on the west side of the Willamette River.	1
g	Oakgrove Street - Johnson City	Launch site provided at the end of Oakgrove Street on the east side of the Willamette River in Johnson City directly across from Roehr Park.	1
h	Waterfront Park - Milwaukie	Launch site provided at the mouth of Kellogg Creek on the east side of the Willamette River in Milwaukie - 3 miles down river.	1
i	Willamette Moorage Park - Portland	Launch site provided in south Portland on the west side of the Willamette River near Sellwood Bridge - 8 miles down river.	1
j	Governor Tom McCall Waterfront Park - Portland	Launch site provided in downtown Portland at Riverview on the west side of the Willamette River near Marquam Bridge - 12 miles down river.	1
k	Lake Grove Swim Park	Launch site provided at the west end of Oswego Lake adjacent to boat launch ramps and docks.	1
l	Lake Oswego Swim Club	Launch site provided at the east end of Oswego Lake adjacent to boat launch ramp and docks.	1
Total launch sites			12

Proposed

f	Roehr Park Addition	Launch site to be developed with the northern expansion of the park.	1
m	River Run Park	Launch sites to be provided on the east side of Oswego Canal adjacent to the control head gate to provide access into the Tualatin River – and subject to permission, access through Oswego Lake to the outlet into the Willamette River.	1

Total launch sites

2

7.5 Horse trails

A system of horse trails may be developed to link major environmental assets, park, and recreational facilities in Lake Oswego. To the extent practical and possible, horse trails may be linked or extended into local neighborhoods that have significant horse populations to provide convenient and safe access for riders of all age and skill levels.

Within the developed areas, horse trails may parallel or coincide with other multipurpose trail corridors or within separate routes using roadways and other alignments of interest to the horse riding population.

Horse trails may be constructed of a sand or compacted dirt base at least 2 feet in width with an additional 2 feet of under-story clearance on either side of the trail. When provided within a multipurpose trail corridor, the horse trail may be separated as much as possible from other hiking and biking activities. Riders may be required to dismount at all bridges and other crossings where the horse trail coincides with other trail activities.

Horse trails may generally share trailhead services with other trail users when the horse trail is located within a multipurpose trail corridor. When horse trails are provided in separate locations, trailheads may be provided with parking lots, hitching racks, restrooms, and other services.

Some of the horse trails proposed within this plan have already been developed on an informal basis by horse riding organizations working in conjunction with public and private landowners. Future public horse trail development projects may use the same cooperative, joint venture approach to formally designate and improve existing trails and trailheads.

Vision

As described, the horse trails vision may:

- provide or formally designate equestrian access to scenic areas and other features of interest;
- for riders of all capability levels;
- for extended ride duration; and
- within close proximity to horse riding populations.

Horse riding areas

Existing riding areas

The following site has been improved for on-site trail riding by private owners.

1	Lake Oswego Hunt Club	Stables, indoor arena, and riding trails in a private facility located next to Iron Mountain Natural Area - <i>for member use only.</i>	0.75
Total miles of horse trail			0.75

Proposed riding areas

The following site will be improved for on-site trail riding.

2	Luscher Farm	An off-road horse trail extending from the farmhouse and barn around the perimeter of the farm.	1.0
Total miles of horse trail			1.0

Horse riding trails

Existing

The following trail system has been developed to provide equestrian riding opportunities within the urban areas.

3	Tryon Creek State Park	An off-road horse trail extending from a trailhead at the entry to the State Park at Terwilliger Boulevard through the less sensitive hillside and natural areas.	3.5
Total miles of horse trail			3.5

Proposed

The following trail system will be developed to provide equestrian riding opportunities within the urban growth boundary. The trails generally follow public road right-of-way corridors, but may be relocated onto public and/or private property where owners approve.

4	Iron Mountain	An off-road horse trail extending from a trailhead at the Lake Oswego Hunt Club parallel to Iron Mountain Boulevard along the less sensitive hillside and natural areas.	0.8
5	Cooks Butte - Luscher Farm	An off-road horse trail extending from the farmhouse and barn around the perimeter of the farm then along Atherton Drive to the top of Cooks Butte and back - with a possible extension west to River Run Park.	1.6
Total miles of horse trail			2.4



City of Lake Oswego Parks and Recreation Master Plan

Horse Trails

-  Existing Private Horse Trailhead
-  Existing Public Horse Trailhead
-  Proposed Horse Trailhead
-  Existing Horse Trails
-  Proposed Horse Trails

Existing Riding Areas
1. Lake Oswego Hunt Club

Proposed Riding Areas
2. Luscher Farm

Existing Horse Trails
3. Tryon Creek State Park

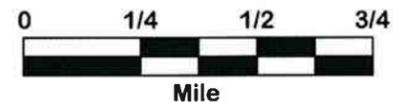
Proposed Horse Trails
4. Iron Mountain Natural Area
5. Cooks Butte - Luscher Farm
6. Portland and Western Railroad

Existing Horse Trailheads
a. Lake Oswego Hunt Club
b. Tryon Creek State Park

Proposed Horse Trailhead
c. Luscher Farm



Geographic
Information
Services



7.6 Walking and hiking trails

Walking and hiking trails may be developed to link major environmental assets, park and recreational facilities, community centers, and historical features throughout Lake Oswego. Generally, walking and hiking trails may be developed as dirt or bark surfaced routes on interior alignments through environmental features. Portions of the system within the more densely developed areas, however, may be developed as sidewalks or boardwalks with urban streetscape furnishings and amenities.

Where possible, walking and hiking trails may be developed in alignments separate from vehicular or other motorized forms of transportation. For example, walking and hiking trails may be located within natural drainage corridors, wooded ravines, and utility easements. In some instances and for short duration, walking and hiking trail systems may be developed as improvements within the right-of-way of established vehicular or other transportation corridors.

Generally, walking and hiking trails may be developed to class 2-5 walking trail standards providing 2-way travel on a crushed rock, bark or compacted dirt base varying between 2 and 5 feet in width. The trails may be of a slope not more than 1:12 unless provided with stairs or other erosion controls. Class 2-3 trail segments may be handicap accessible and usable by all age and skill groups.

Within the most urban alignments, walking and hiking trails may be developed to class 1 walking trail standards providing 2-way travel on an asphalt or concrete surface between 4 and 6 feet in width. Such sidewalk or boardwalk trails may be of a slope not more than 1:50. Class 1 trail segments may be handicap accessible and usable by all age and skill groups.

Walking and hiking trail corridors may be located to coincide with other park and recreational improvements or public facilities to access rest stops, parking lots, restrooms, and other services.

Walking and hiking trail corridors may be independent properties or include portions of other sites provided for resource activities, athletic facilities, and other park and recreational or public facility properties. Linked with conservation areas and resource activities, the walking and hiking trails may create a system of interconnected greenways to integrate and define the urban and natural portions of the county in accordance with the Oregon State Land Use Law's provisions for urban separators.

Vision

As described, the walking and hiking trails vision may be realized by providing recreational trail opportunities that:

- access natural features that may not be available otherwise;
- link open spaces and other conservation areas into a greenway system;
- serve persons with varied physical abilities and skills;
- establish high visibility and volume pedestrian routes through the most developed urban areas;
- expand the park system to connect with public properties; and
- expand roadway corridors to provide recreational and commuter trail opportunities.

Walking trails - in a park

Existing park walking trails

The following sites have been improved with segments of designated dirt, bark, and asphalt trails that access existing activity areas or buildings:

1	George Rogers Park	Extensive 2.0 mile dirt, bark, and 2.0 mile asphalt walking trails through park activity areas and along Lake Oswego outlet. Includes an asphalt walking trail along Willamette River from park boundary to Old River Road.	4.0
2	Roehr Park	Asphalt walking trail along shoreline from Oswego Point Drive to the Water Sports Center.	1.0
3	Millennium Plaza Park	Concrete and asphalt sidewalks and pathways from shelter area on Evergreen Road to overlook and shoreline steps on the east end of Lakewood Bay.	0.25
4	Adult Community Center	Dirt and bark walking trail around center and connecting to extensive walking trail system in Tryon Creek State Park.	0.2
5	Springbrook Park	Dirt walking trails between Indoor Tennis Center, adjacent residential neighborhoods, Lake Oswego JH and Uplands ES.	1.5
6	Westlake Park	0.4 mile dirt and 0.2 mile asphalt trails around park and between athletic fields.	0.6
7	Waluga Park	1.2 mile dirt and 0.5 mile asphalt walking trails between east and west sections of park, around athletic fields, and within grassy play and picnic areas.	1.7
8	Waluga JH	Dirt access trail to Waluga JH and Bryant ES from local residential neighborhoods.	0.2
9	Bryant Woods Park-Canal Acres Natural Area-River Run Park	Dirt walking trails along Oswego Canal, through wetland interpretive areas, and to the north shore of the Tualatin River.	1.0
10	Cooks Butte Park-Luscher Farm	Dirt walking trails to the summit of Cookes Butte Park.	0.75
Total miles of park walking trails			11.2

Proposed park walking trails

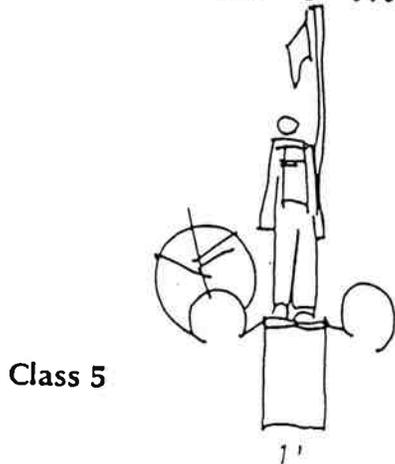
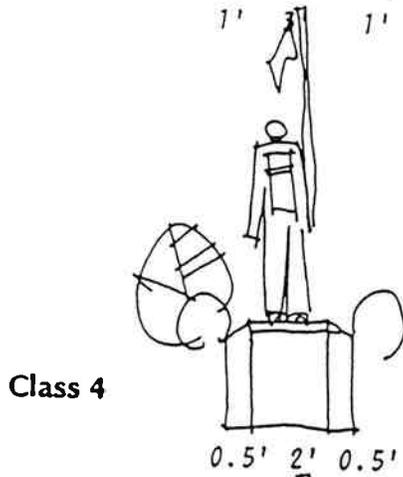
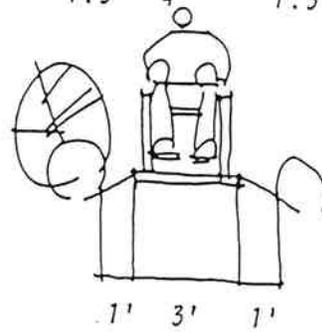
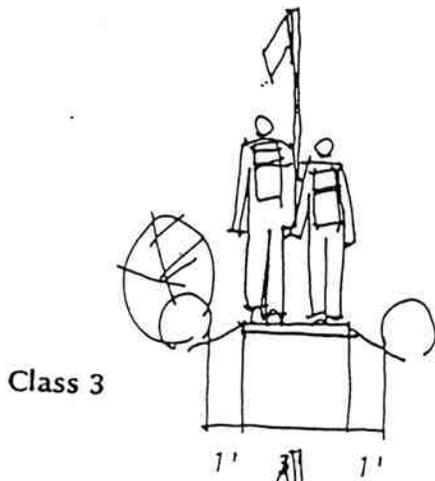
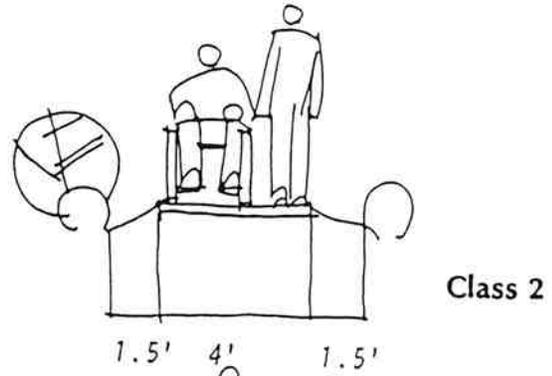
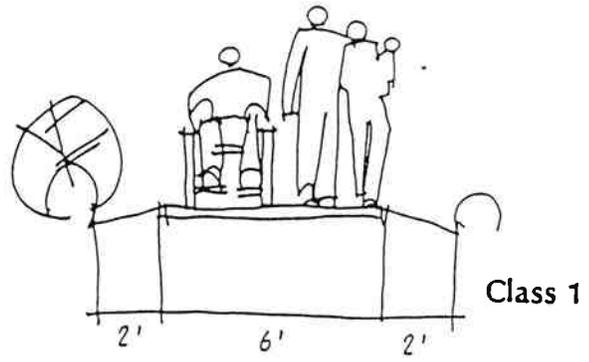
The following sites will be improved with an expanded system of designated park walking trails:

1	George Rogers Park	Asphalt trail will be expanded west under the Pacific Highway bridge to connect with McVey Avenue, north to connect with the Riverfront Trail at the Water Sports Center, and north to provide a tour of the historic district.	0.8
2	Roehr Park	Asphalt walking trails will be expanded to north along the Willamette River shoreline to Tryon Creek, then west under the Riverside Bridge to connect with Tryon Creek State Park trails, then south adjacent to the Pacific Railroad-Shoreline Trolley line to Oswego Point Drive to Roehr Park.	1.0
3	Millennium Park	Sidewalks and asphalt pathways will be designated west along North Shore Road to Cabana lane, then east adjacent to the Pacific & Western Railroad track to Millennium Park on the east end of Lakewood Bay.	1.0
4	Adult Community Center	Dirt walking trails will be expanded east on G Avenue to State Street, then north on Tryon Creek State Park trails, then south on a trail connection across Tryon Creek back to the center.	0.8
5	Springbrook Park	Dirt walking trails will be expanded to create a loop trail system around the complete circumference of Springbrook Park, then north across Country Club Road, then around Lake Oswego HS, the swim center, and tennis courts.	2.3
6	Westlake Park	Dirt walking trails will be expanded to create a loop system around the park, athletic fields, then north to include the complete grounds of Oak Creek ES.	0.8
7	Waluga Parks	Asphalt walking trails will be expanded to create a loop system around both parks with spur connections to adjacent neighborhoods and Lake Grove ES.	1.0
8	Waluga JH	Asphalt walking trails will be expanded to create a loop system around Waluga JH, Bryant ES, and the tennis courts with spur connections into local residential neighborhoods.	1.0

Proposed park walking trails (cont.)

9	Bryant Woods Park-Canal Acres Natural Area-River Run Park	Dirt walking trails will be expanded west to create a loop trail around Canal Acres Natural Area, and east above the canal headgate and along the bank of the Tualatin River in River Run Park with spurs into local neighborhoods.	0.8
10	Cooks Butte Park-Luscher Farm-Greentree Park	Dirt walking trails will be expanded east along Atherton Drive, then around the Luscher Farm properties, then north around the Municipal Golf Course to Palisades ES and Greentree Park, then south around Lakeridge HS to connect back to Luscher Farm.	3.3
Total miles of park walking trails			12.8

Walking and hiking trails





**City of Lake Oswego
Parks and Recreation
Master Plan**

**Walking Trails -
In a Park**

-  Existing Park Trails
-  Proposed Park Trails

Existing Park Trails

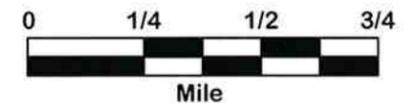
1. George Rogers Park
2. Roehr Park
3. Millennium Park
4. Westlake Park
5. East / West Waluga Parks
6. Bryant Woods / Canal Acres
7. Cooks Butte
8. Tryon Creek State Park

Proposed Rail Trail

9. Roehr Park Addition
10. Millennium Park / Lakewood Bay
11. Bryant Woods / Canal Acres / River Run Park
12. Cooks Butte / Luscher Farm / Greentree Park
13. Adult Community Park / Tryon Creek State Park
14. Springbrook Park
15. Waluga Junior High



Geographic
Information
Services



Walking and hiking trails - citywide

Existing city trails

The following trail and sidewalk system provides walking and hiking opportunities within existing city limits.

1	Lake Loop	On and off-street asphalt trail circumnavigating Oswego Lake sharing right-of-way with State Street, McVey Avenue, South Shore Boulevard, Lakeview Upper Drive, Iron Mountain Boulevard, and A Avenue with access to Millennium Plaza Park, George Rogers Park, South Shore Natural Area, Lake Grove Swim Park, the Lake Oswego Hunt Club, Iron Mountain Park and Natural Area, and City Hall.	7.0
2	Bryant/Palisades Loop	On and off-street asphalt trail looping the south hillsides overlooking Oswego Lake sharing right-of-way with Bryant Road, Lakeview Upper Drive, South Shore Boulevard, Stafford Road, Overlook Drive, and Royce Way with access to Waluga JH, Bryant ES, Lamont Springs Natural Area, Lake Grove Swim Park, South Shore Natural Area, Luscher Farm, Lakeridge HS, Westridge Park, and Westridge ES.	6.3
3	West Lake Grove Loop	On and off-street asphalt trail looping the western neighborhoods sharing right-of-way with Waluga Drive, Quarry Road, Fosberg Road, Melrose Street, Kruse Oaks Boulevard, and Kruse Way with access to West and East Waluga Parks, Lake Grove ES, Westlake Park, Oak Creek ES, and Southwood Park.	7.0
4	Country Club Loop	On and off-street asphalt trail looping the northern hillsides sharing right-of-way with County Club Road, Iron Mountain Boulevard, Lakeview Upper Drive, Reese Road, and Boones Ferry Road with access to Oswego Lake Country Club, Iron Mountain Natural Area & Park, Lake Oswego Hunt Club, Lake Grove ES, Springbrook Park, Lake Oswego JH, Uplands ES, and Lake Oswego HS.	5.0
5	Tryon Creek State Park Loop	On and off-street 8.0 mile dirt and 3.0 asphalt trail looping Tryon Creek State Park sharing right-of-way with Terwilliger Boulevard with access to the Adult Community Center.	11.0
Total miles hiking trail			36.3

Proposed city trails

The following trail system will be developed to provide walking and hiking opportunities throughout the urban growth boundary. The trails generally follow public road right-of-way corridors, but may be relocated onto public and/or private property where owners approve.

6	Riverfront Trail	On and off-street asphalt trail along the west shoreline of the Willamette River sharing right-of-way with Old River Road and Riverside Drive with access to Marylhurst College, George Rogers Park, Roehr Park, and Tryon Creek State Park in Lake Oswego with ultimate connections south into West Linn and north into Portland.	2.5
7	Lakewood Bay Loop	On and off-street asphalt trail circumnavigating Lakewood Bay sharing right-of-way with State Street, North Shore Road, Cabana lane, and Pacific & Western Railroad with access to Millennium Park.	1.0
8	Old Town Loop	On and off-street asphalt trail looping the older developed neighborhoods sharing right-of-way with Pacific & Western Railroad or Pine-Westwardho-Berwick-Ellis-Bay Court, 1st Street, G Avenue, Sunningdale Road, and Atwater Road with access to Millennium Park, the Adult Community Center and Tryon Creek State Park, Forest Hills ES, and Woodmont Natural Park.	0.5
9	Mountain Park Loop	On and off-street asphalt trail looping the northwest neighborhoods sharing right-of-way with Melrose Street, 62nd Avenue, Haines Street, Kerr Parkway, and Botticelli Street with access to Southwood Park, Portland Community Center, and Mountain Park Racquet Club and Recreation Center.	5.5
10	Kerr Parkway-Kruse Way Loop	On and off-street asphalt trail looping the northwest neighborhoods sharing right-of-way with Kerr Parkway, Boones Ferry Road, Kruse Way, Fosberg Road, and Botticelli Street with access to Lake Oswego HS, Lake Oswego JH, Uplands ES, and Springbrook Park.	2.75

11	Pilkington Loop	On and off-street asphalt trail looping the southwest neighborhoods sharing right-of-way with Pilkington Road, Lakeview Boulevard, Bryant Road, Deerbrush Avenue, and Childs Road with access to Pilkington Park, River Grove ES, the Skateboard Court at the City Maintenance Shop, Lamont Springs Natural Area, Waluga JH, Bryant ES, Bryant Woods Park, Canal Acres Natural Area, and River Run Park.	4.75
12	Cooks Butte Park - Luscher Farm	On and off-street asphalt trail looping the southern edge of the urban growth boundary sharing right-of-way with Westview Drive and Atherton Drive with access to and through Cooks Butte Park and Luscher Farm.	3.0
13	Hallinan Loop	On and off-street asphalt trail looping the southeast neighborhood sharing right-of-way with Hemlock Street, Glenmorrie Road, Glenmorrie Drive, Old River Road, and McVey Avenue with access to Freepons Park, Hallinan Park, Hallinan ES, Glenmorrie Park, Sisters of the Holy Names Convent, and George Rogers Park.	2.25
Total miles city hiking trail			22.25



City of Lake Oswego Parks and Recreation Master Plan

Walking and Hiking Trails

-  Existing Walking / Hiking Trails
-  Proposed Walking / Hiking Trails

Existing Walking / Hiking Trails

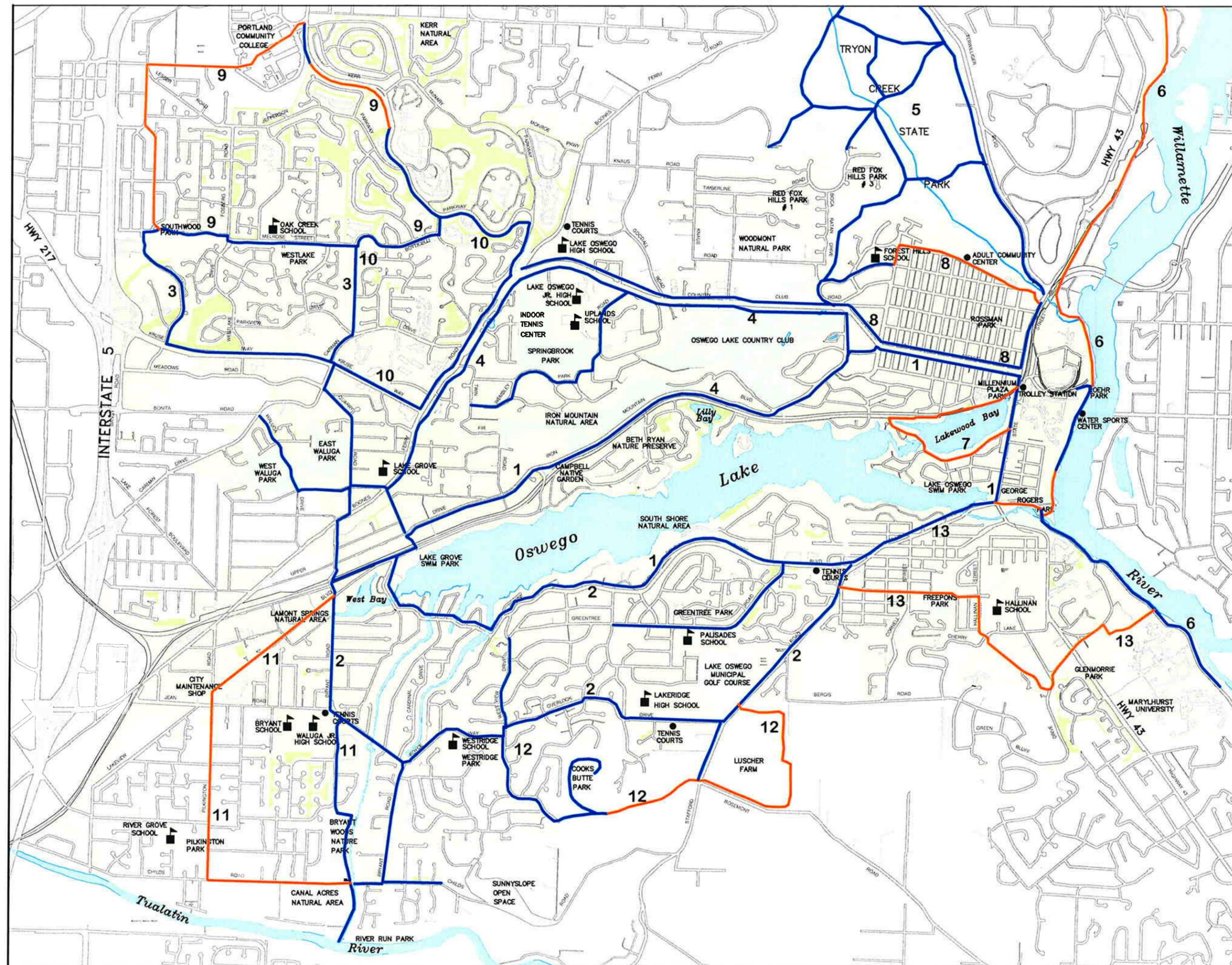
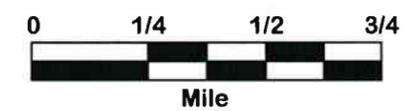
1. Lake Loop
2. Bryant / Palisades Loop
3. West Lake Grove Loop
4. Country Club Loop
5. Tryon Creek State Park

Proposed Walking / Hiking Trails

6. Riverfront Trail
7. Lakewood Bay Loop
8. First Addition Loop
9. Mountain Park Loop
10. Kerr Parkway - Kruse Way Loop
11. Pilkington Loop
12. Cooks Butte Park / Luscher Farm
13. Hallinan Loop



Geographic
Information
Services



7.7 Off-road mountain biking trails

A system of off-road mountain bike trails may be developed to link major environmental assets, park, and recreational facilities throughout Lake Oswego. To the extent practical and possible, off-road mountain bike trails may be linked or extended into local urban neighborhoods to provide convenient, safe access for younger age riders. Mountain bike trail facilities may also be developed to provide contained trails within major parks and/or on public or utility rights-of-way that are safe and practical for younger, less experienced riders.

To the extent possible or practical, mountain bike trails may be developed as single mode trails to USDA Forest Service mountain bike trail standards. Shared trail corridors, however, may be simply designated for joint equestrian, hiking, and mountain bike trail use.

Within developed areas, mountain bike trails may parallel or coincide with other multipurpose trail corridors or within separate routes using powerline, pipeline, and other alignments of interest to the mountain bike riding population. In some instances, mountain bike trails may be developed as improvements within the right-of-way of established vehicular or other transportation corridors - particularly where these segments may provide trail access to parks or riding areas that would not be accessible otherwise.

Mountain bike trails may be constructed of a compacted dirt or crushed rock base at least 1-2 feet in width with an additional 3-4 feet of under-story clearance on either side of the trail. When provided within a multipurpose trail corridor, the mountain bike trail may be an integral part of other hiking and biking activities.

Mountain bike trails may generally share trailhead services with other trail users when the mountain bike trail is located within a multipurpose trail corridor. When mountain bike trails are provided in separate locations, trailheads may be provided with parking lots, restrooms, and other services.

Some of the mountain bike trails proposed within this plan have been identified by mountain biking enthusiasts working in conjunction with cycling interest groups. Future public mountain biking trail projects may use the same cooperative, joint venture approach to formally designate and improve existing trails and trailheads and/or develop new off-road trails, rest stops, and other trail services.

Vision

As described, the mountain bike trails vision may:

- increase off-road mountain bike trail access for experienced riders to scenic areas and features for extended ride durations;
- increase trail access for local residents to parks; open space corridors; and other areas of interest within the urban areas;
- serve persons with varied physical abilities and skills; and
- expand trail corridors to provide for a mixture of recreational uses.

Off-road mountain bike trails

Existing

The following trail systems have been developed to provide mountain bike trail opportunities within the urban areas.

1	Riverfront Trail	On and off-street asphalt trail along the west shoreline of the Willamette River sharing right-of-way with Old River Road and Riverside Drive with access to Marylhurst College, George Rogers Park, Roehr Park, and Tryon Creek State Park in Lake Oswego with ultimate connections south into West Linn and north into Portland.	1.0
2	Tryon Creek State Park Loop	On and off-street asphalt trail looping Tryon Creek State Park using internal park trails and sharing right-of-way with Terwilliger Boulevard - with potential access to the Adult Community Center.	3.0
Total miles off-road trail			4.0

Proposed

The following trail system will be developed to provide mountain bike trail opportunities within the urban growth area. The trails generally follow public road right-of-way corridors, but may be relocated onto public and/or private property where owners approve.

1	Riverfront Trail	On and off-street asphalt trail along the west shoreline of the Willamette River to be extended sharing right-of-way with Old River Road and Riverside Drive with access to Marylhurst College and ultimate connections south into West Linn and north into Portland.	1.5
3	Southern Pacific Rail Trail	An asphalt trail to be developed within or directly adjacent railroad right-of-way as a rail trail from Millennium Plaza Park and the Trolley Station west to Tualatin Community Park in Tualatin with access to Iron Mountain Park and Lake Grove Swim Park.	5.0
4	Luscher Farm/River Run	On and off-street asphalt trail to be developed from the barn around the perimeter of the farm then southwest along Atherton Drive and/or Childs Road to River Run Park.	2.5
Total miles off-road trail			9.0

Trailheads

Existing

Parking, restroom, signage, and other biking services are provided at the following sites.

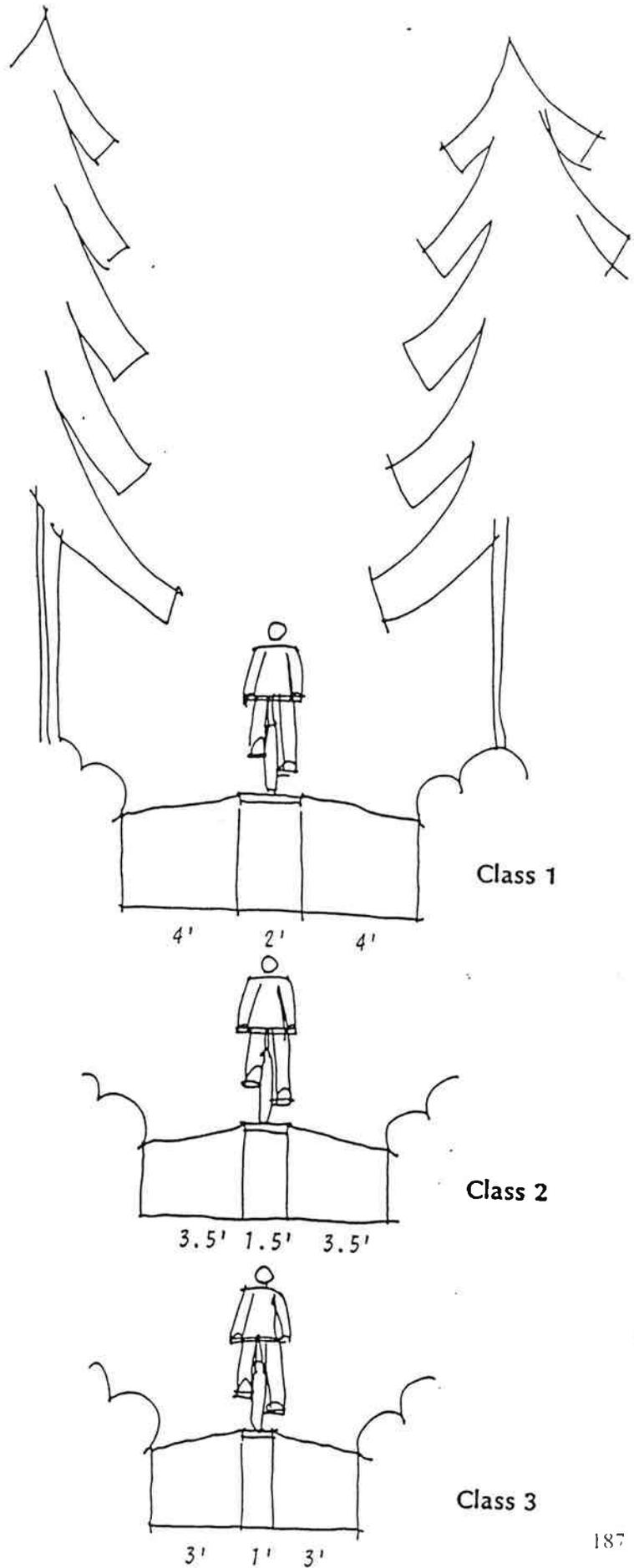
a	Tryon Creek State Park	Signage, parking, and restroom services are provided at the entry road into the park next to the information center.	1
Total trailheads			1

Proposed

Parking, restroom, signage, and other biking services will be provided at the following sites.

b	Roehr Park Addition	Signage, parking, and restroom services to be provided in the north addition to the site.	1
c	Iron Mountain Park	Signage to be provided at the parking area along Iron Mountain Road.	1
d	Bryant Woods Park	Signage to be provided at the parking area next to Oswego Canal and Childs Road.	1
e	Luscher Farm	Signage, parking, and restroom services to be provided next to the barn and along Stafford Road.	2
Total trailheads			5

Off-road mountain biking





City of Lake Oswego Parks and Recreation Master Plan

Off-Road Mountain Bike Trails

- Existing Trailhead
- Proposed Trailhead
- Existing Off-road Mountain Bike Trails
- Proposed Off-road Mountain Bike Trails

Existing Off-road Mountain Bike Trails

1. Riverfront Trail
2. Tryon Creek State Park

Proposed Multipurpose Trails

1. Riverfront Trail
3. Portland and Western Railroad
4. Luscher Farm / River Run Park

Existing Trailhead

- a. Tryon Creek State Park

Proposed Trailheads

- b. Roehr Park
- c. Iron Mountain Park
- d. Bryant Woods Park
- e. Luscher Park



Geographic
Information
Services

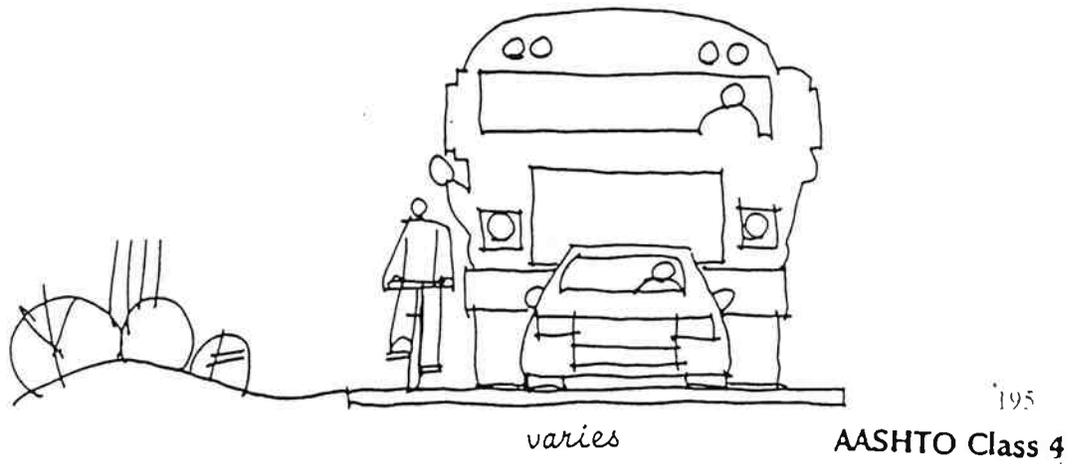
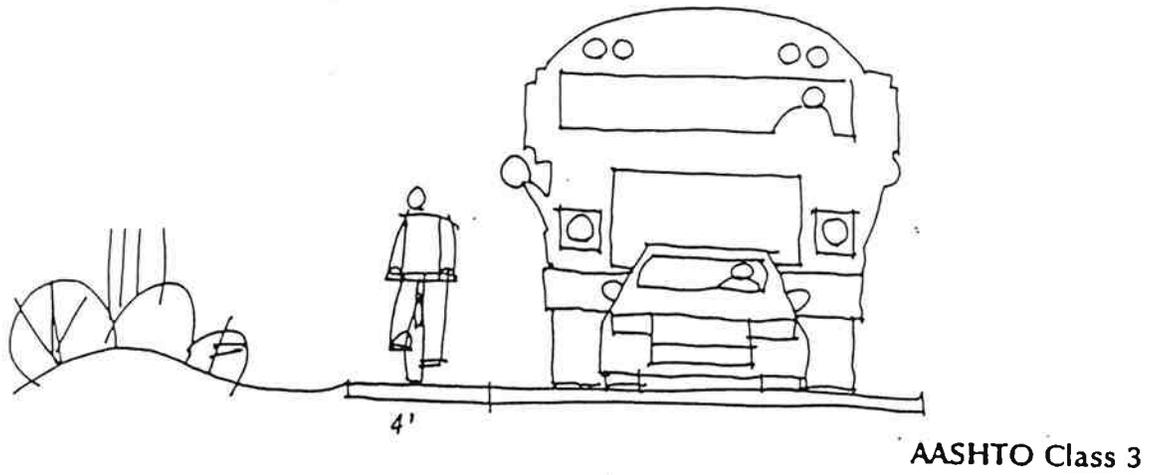
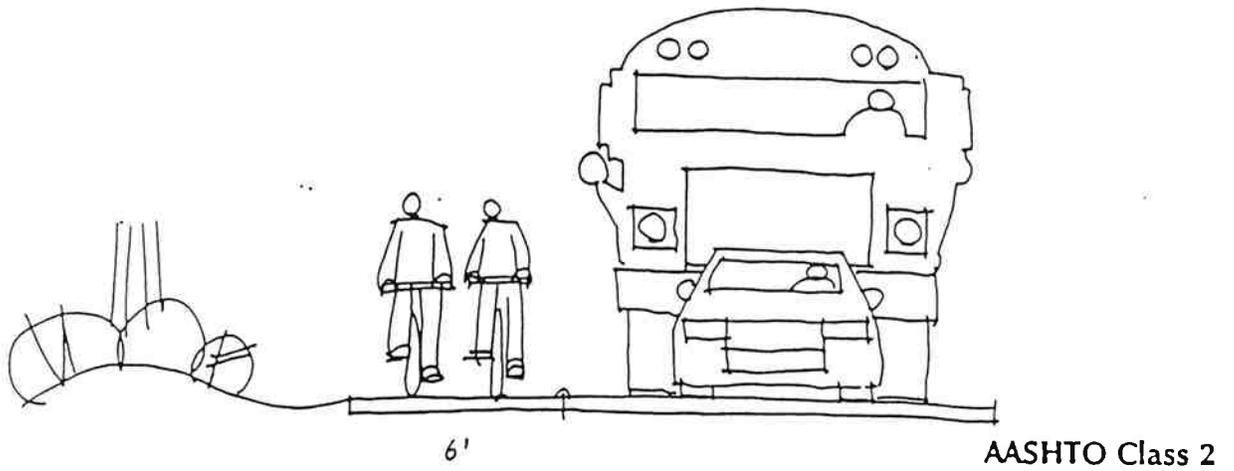
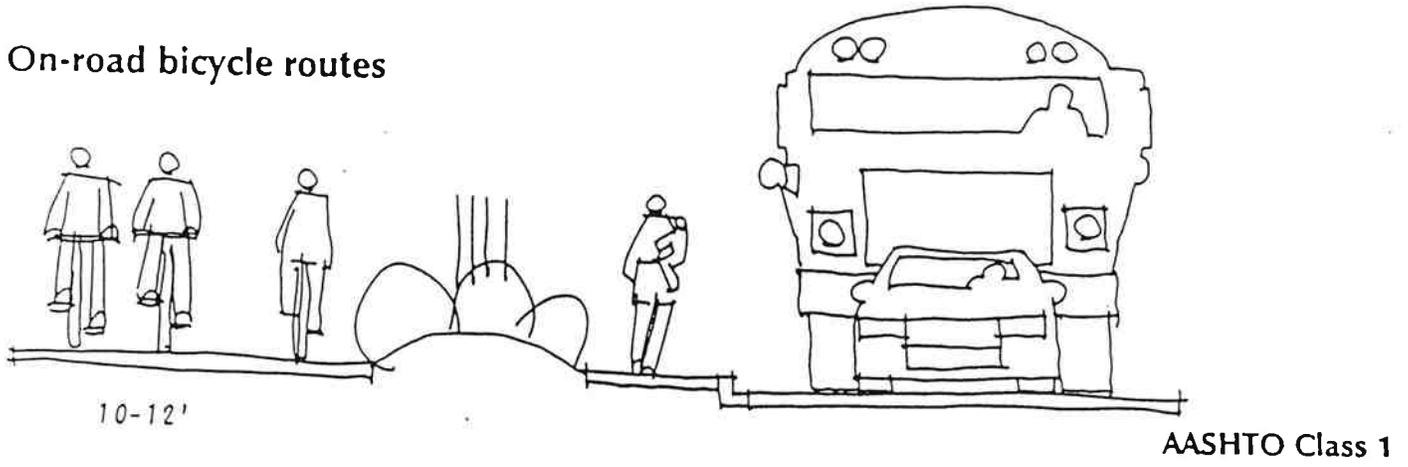


Proposed

The following routes may be developed using shoulder expansions, lanes, markings, signage, and some in-roadway designations.

11	Kruse Oaks-62nd Avenue-Lesser Road	Class 3 AASHTO route with access to Southwood Park, Lesser Park, and Portland Community College.	1.0
13	McEwan Road-Lower Boones Ferry Road	Class 3 AASHTO route with access to the industrial area in the southwest sector of the city.	0.5
17	Lesser Road-Capitol Highway	Class 3 AASHTO route with access to Portland Community College.	0.4
18	Haines Road-Portland Community College	Class 1/3 AASTO route with access to Lesser Park and through Portland Community College.	0.7
19	G Avenue	Class 3 AASHTO route with access to Tryon Creek State Park, Forest Hills School, and the Adult Community Center.	0.6
20	North Shore Road-Middle Crest Road	Class 3 AASHTO route with access to Lakewood Bay and Lakewood Center for the Arts.	1.0
21	Meadows Road	Class 3 AASHTO route with access to the motels, hotels, and office buildings along Kruse Way and East Waluga Park.	1.0
22	Childs Road	Class 1/3 AASHTO route with access to River Grove Park, River Grove School, Pilkington Park, Bryant Woods Park, Canal Acres Natural Area, River Run Park, and Luscher Farm.	3.0
23	Carman Drive-Fosberg Road	Class 3 AASHTO route with access to West and East Waluga Parks and the hotels, motels, and office buildings on Kruse Way.	1.0
24	McEwan Road-65th Avenue	Class 3 AASHTO route with access to River Grove Park and the industrial uses in the southwest sector of the city.	0.5
25	Pilkington Road	Class 3 AAHSTO route with access to the City Maintenance Shop, River Grove School, Pilkington Park, and River Grove Park.	1.3

On-road bicycle routes





City of Lake Oswego Parks and Recreation Master Plan

On-Road Bicycle Touring Routes

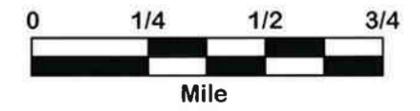
-  Existing On-road Bicycle Routes
-  Proposed On-road Bicycle Routes

- Existing On-road Bicycle Routes**
- Melrose Street / Botticelli / Kerr Parkway
 - Country Club Road
 - A Avenue
 - Kruse Way
 - Wembley Park Road
 - Waluga Drive / Oakridge Drive
 - Lakeview Blvd / Upper Drive / Iron Mountain Dr
 - South Shore Blvd / McVey Ave / Old River Road
 - Royce Way / Overlook Drive
 - Stafford Road
 - Kruse Oaks Boulevard
 - Bryant Road / Quarry Road / Fosberg Road
 - Boones Ferry Road
 - Westview Road
 - Terwilliger Boulevard
 - State Street / Highway 43

- Proposed On-road Bicycle Routes**
- Lesser Road / Capitol Highway
 - Haines Road / Portland Community College
 - G Avenue
 - North Shore Road / Middle Crest Road
 - Meadows Road
 - Childs Road / Stafford Road
 - Carman Drive / Fosberg Road
 - McEwan Road / 65th Avenue
 - Pilkington Road
 - 10th Street
 - Kruse Oaks Blvd. / 62th Avenue / Leeser Road
 - McEwan Road / Boones Ferry Road



Geographic
Information
Services



7.9 Multipurpose trails

Multipurpose trails may be developed to link major environmental assets, park and recreational facilities, community centers, and historical features on Lake Oswego. Generally, multipurpose trails may be developed to provide for one or more modes of recreational and commuter travel use including hiking and biking where appropriate.

To the extent possible, multipurpose trails may be developed within corridors separate from vehicular or other motorized forms of transportation. For example, multipurpose trails may be located on utility easements or in separate property alignments. In some instances, the trail may developed as improvements within the right-of-way of established vehicular or other transportation corridors.

Typically, multipurpose trails may be developed to class 1 walking trail and class 1 AASHTO (American Association of State Highway & Transportation Officials) bicycle trail standards. The trails may provide 2-way travel on a concrete, asphalt or very fine crushed rock base between 8 and 12 feet in width. The trails may be of a slope not more than 1:50, handicap accessible, and usable by all age and skill groups.

Trail corridors may be improved with trailhead services including rest stops, parking lots, restrooms, water, and air utilities. Where the trail is located in association with another park and recreational improvement or public facility, the trailhead may be improved with active picnic, playgrounds, and play areas.

Multipurpose trail corridors may be independent properties or include portions of other sites provided for resource conservancies, resource activities, athletic facilities, and other park and recreational or public facility properties. Linked with resource conservancies and resource activities, the multipurpose trails element plans may create a system of interconnected greenways to integrate and define the developed portions of the urban area in accordance with the Growth Management Act's (GMA) provisions for urban separators.

Multipurpose trail corridors may be developed on other publicly-owned lands using public use agreements or special easements; or on lands owned as portions of road and highway right-of-way, stream corridor conservation or buffer zones of independent title.

Vision

As described, the multipurpose trails vision may be realized by providing recreational trail opportunities that:

- conserve natural features;
- define urban identities;
- link community facilities;
- serve persons with varied physical abilities and skills; and
- promote commuter and other more functional transportation methods.

Multipurpose trail

Existing

The following trail systems have been developed to provide combined hike, bike, and some horse trail opportunities within the area.

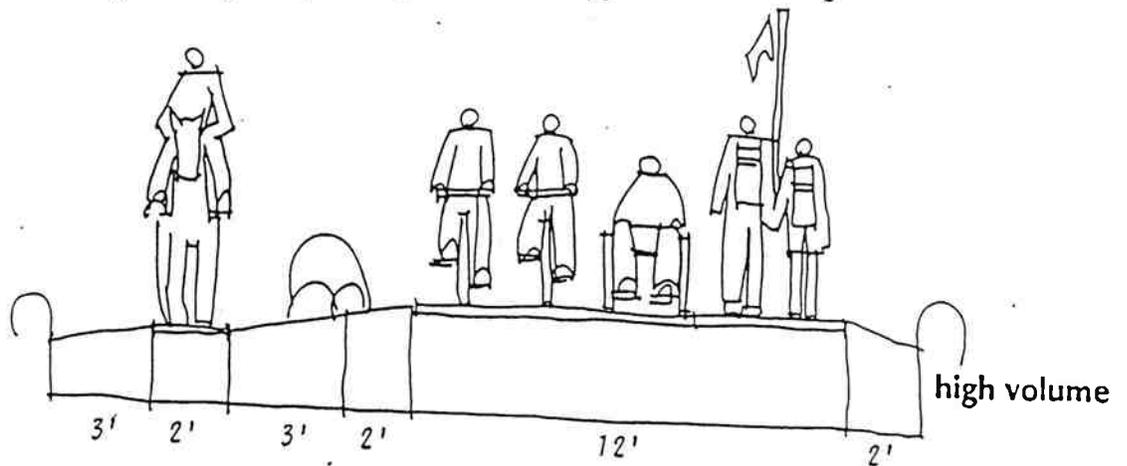
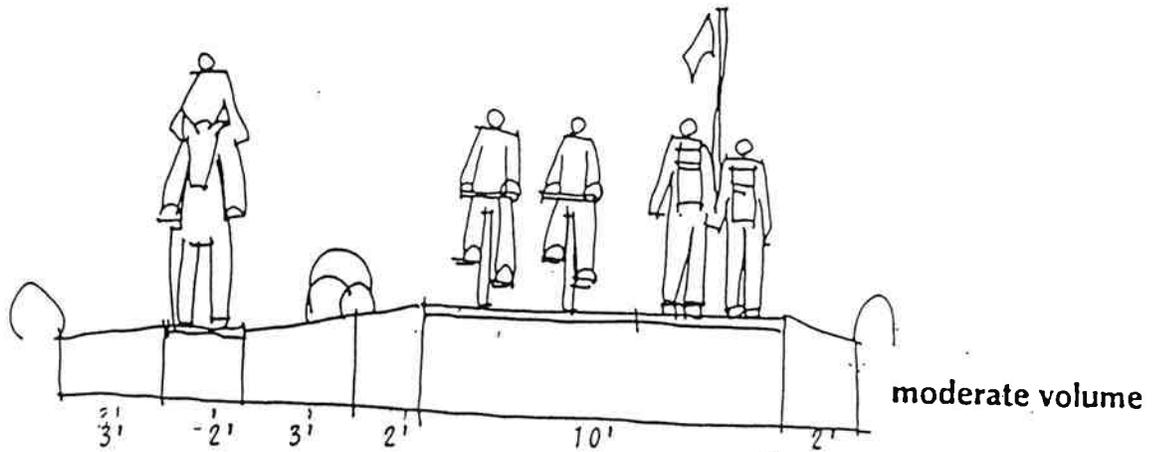
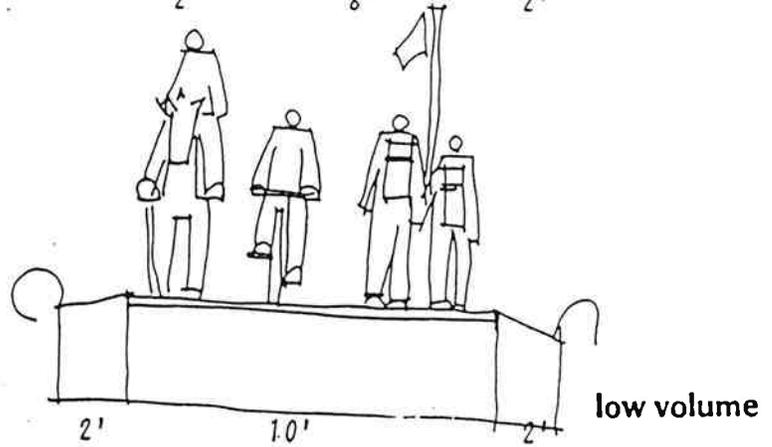
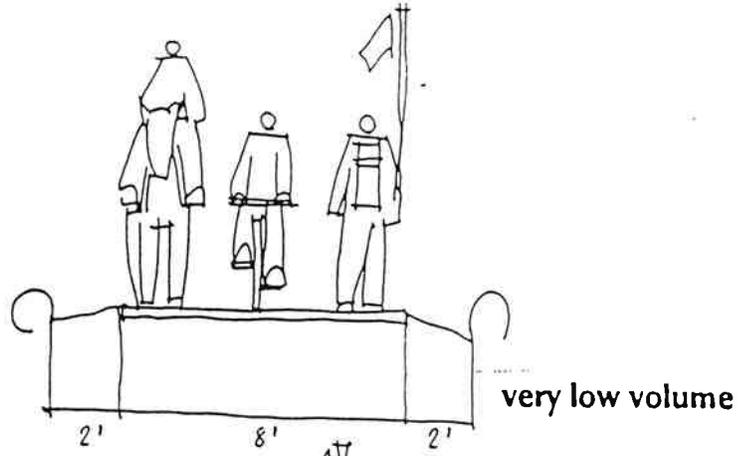
1	Riverfront Trail	Hiking and biking trail with alternating alignment in Willamette Shore Trolley and State Street-Riverside Drive rights-of-way from Governor Tom McCall Waterfront Park in downtown Portland through Lake Oswego to West Linn and the Tualatin River. Section through Lake Oswego currently extends partially through Roehr Park, and from George Rogers park to Old River Road with access to Roehr Park, Water Sports Center, and George Rogers Park.	0.7
2	Tryon Creek State Park	Hiking, biking, and some equestrian trails through the park and adjacent Terwilliger Blvd with access to Tryon Creek State Park and the Adult Community Center	1.0
Total miles multipurpose trail			1.7

Proposed

The following trail systems will be developed to provide combined hike, bike, and some horse trail opportunities within the area. The trails generally follow public road and railroad right-of-way corridors, but may be relocated onto public and/or private property where owners approve.

1	Riverfront Trail	Hike and bike trail extension from the south shore of Tryon Creek to Old River Road with access to Tryon Creek, Roehr Park Addition through the mill site, Water Sports Park, George Rogers Park, and Marylhurst College.	1.3
3	Southern Pacific Railroad Rail Trail	Hike, bike, and some horse trail within or directly adjacent to the railroad tracks and right-of-way from Elk Rock Island Park in Milwaukie across the Willamette River and through the city to Tualatin Park in Tualatin with access to River Villa Park in Johnson City, Roehr Park Addition, Willamette Shore Trolley Station, Millennium park, Iron Mountain Park, and River Grove Swim Park.	9.0
4	Childs Road-Stafford Road	Hike, bike, and some horse trail within road right-of-way, possibly in off-road alignments, with access to George Rogers Park, Lake Oswego Municipal Golf Course, Lakeridge High School, Luscher Farm, Cooks Butte Park, River Run Park, Canal Acres Natural Area, Bryant Woods Park, River Grove Park, Pilkington Park, and River Grove School.	5.0
Total miles multipurpose trail			15.3

Multipurpose trails





**City of Lake Oswego
Parks and Recreation
Master Plan**

Multipurpose Trails

- Existing Trailhead
- Proposed Trailhead
- Existing Multipurpose Trails
- Proposed Multipurpose Trails

Existing Multipurpose Trails

1. Riverfront Trail
2. Tryon Creek State Park

Proposed Multipurpose Trails

1. Riverfront / River-to-River Trail
3. Portland and Western Railroad
4. Childs / Stafford Road

Existing Trailheads

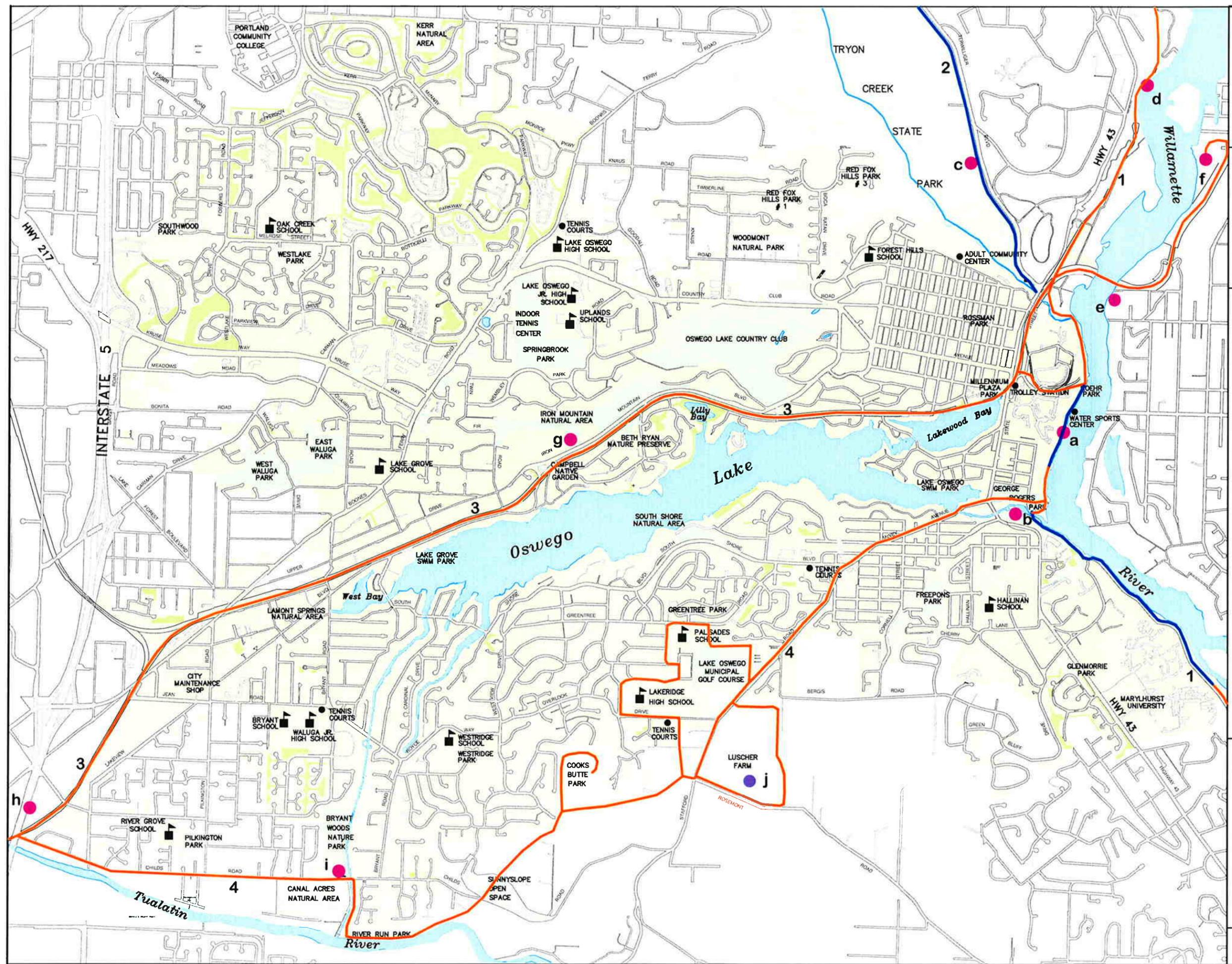
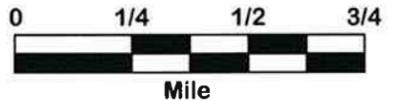
- a. Roehr Park
- b. George Rogers Park
- c. Tryon Creek State Park
- d. Peter Kerr Park
- e. River Villa Park
- f. Elk Rock Island Park - Milwaukee
- g. Iron Mountain Park
- h. Tualatin Community Park
- i. Bryant Woods Nature Park

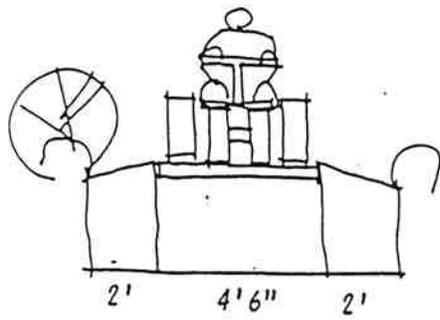
Proposed Trailhead

- j. Luscher Farm

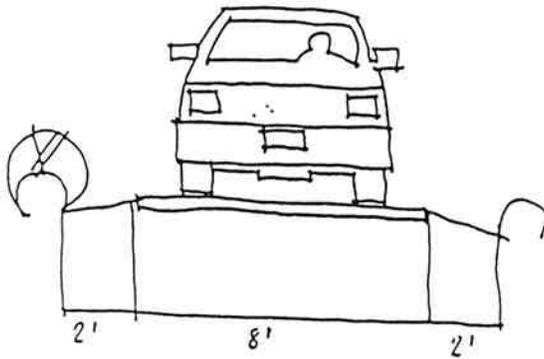


Geographic Information Services

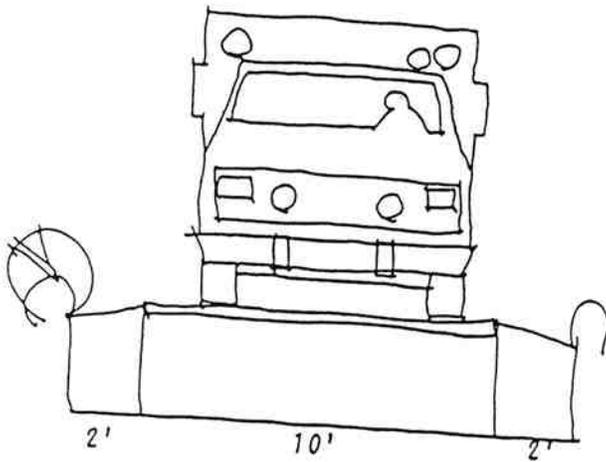




maintenance ATV



maintenance pickup



aid car/truck

Maintenance/emergency vehicle access

Trailheads

Existing

Parking, restroom, signage, and other biking services are provided or may be designated at the following sites.

a	Roehr Park Addition	Signage, parking, and restroom services designated in the parking area - and to be provided in the waterfront extension of the park.	1
b	George Rogers Park.	Signage, parking, and restroom services provided at the upper picnic area and adjacent to the smelter.	1
c	Tryon Creek State Park	Signage, parking, and restroom services provided at the entry road into the park next to the information center.	1
d	Peter Kirk Park - Portland	Signage, parking, and restroom services to be designated adjacent to the trolley tracks.	1
e	Elk Rock Island Park - Milwaukie	Signage, parking, and restroom services to be designated adjacent to the railroad tracks.	1
f	River Villa Park - Johnson City	Signage, parking, and restroom services to be designated adjacent to the railroad tracks.	1
g	Iron Mountain Park	Signage to be provided at the parking area along Iron Mountain Road.	1
h	Tualatin Community Park - Tualatin	Signage, parking, and restroom services to be designated adjacent to the railroad tracks.	1
i	Bryant Woods Park	Signage to be provided at the parking area next to Oswego Canal and Childs Road.	1
j	Luscher Farm	Signage, parking, and restroom services to be provided next to the barn and along Stafford Road.	2

Total trailheads

11

7.10 Streetscapes

Streetscape improvements, which are a more urban form of multipurpose trail, may be developed to link community facilities, public buildings, commercial business districts, and other major activity centers within the Lake Oswego business districts. Generally, streetscapes may provide for one or more modes of recreational and commuter travel use including hiking and biking where appropriate - linked with public transit and other vehicular conveyance systems.

To the extent possible, streetscape improvements may be developed within the right-of-way of established vehicular or other transportation corridors. Where appropriate or necessary, however, the right-of-way or the streetscape improvement may be aligned off the roadway to incorporate gateways, parks, storefront boardwalks or plazas, and other pedestrian spaces.

Typically, the bikeway portion of streetscape corridors may developed to class 1 walking trail and class 1 AASHTO (American Association of State Highway & Transportation Officials) bicycle trail standards. The trails may provide 2-way travel on a concrete, brick paver or asphalt base between 8 and 12 feet in width. The trails may be of a slope not more than 1:50, handicap accessible, and usable by all age and skill groups.

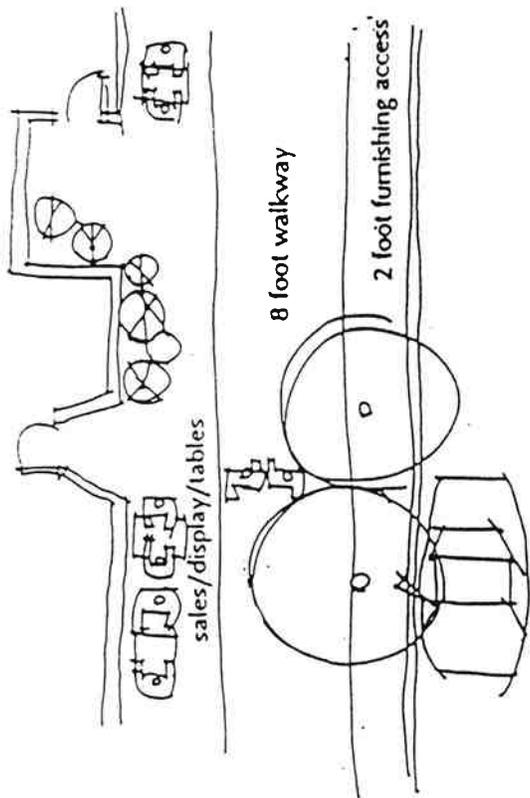
Streetscape corridors may be improved with trailhead services including rest stops, parking lots, and transit connections. Where the streetscape is located in association with another park and recreational improvement or public facility, the corridor may be improved with active picnic, playgrounds, and play areas, restrooms, water, and air utilities. Where the streetscape is incorporated into adjacent retail spaces or plazas, the corridor may be improved with artworks and sculptures, water fountains, outdoor dining areas, amphitheaters and performing areas, and other activities of interest.

Streetscape corridors may be contained within or extensions of the public road right-of-way or include portions of other public sites acquired to define gateways or other linear park definitions. Streetscape improvements may also be developed and maintained on privately-owned lands subject to public use agreements or public access easements.

Vision

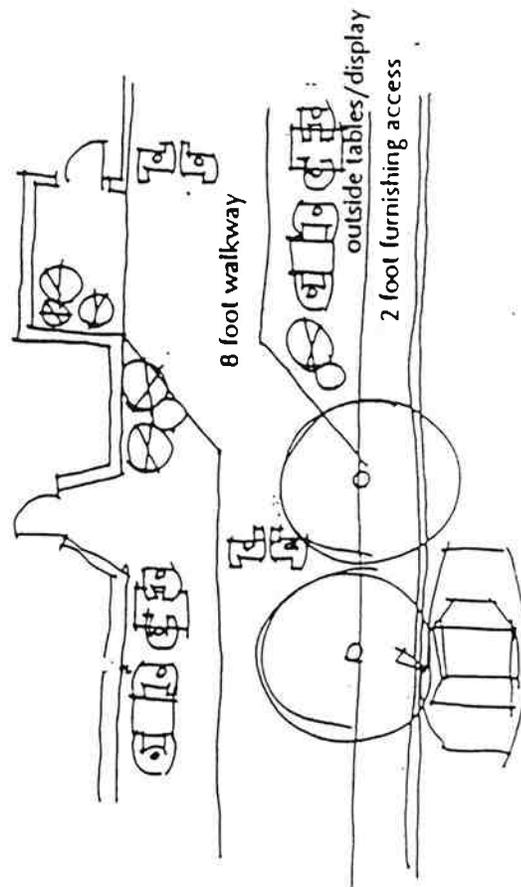
As described, the streetscape vision may be realized by providing recreational and commuter trail opportunities within the most urban developed areas that:

- conserve natural features;
- define gateway and urban identities;
- link public facilities and commercial business centers;
- serve persons with varied physical abilities and skills;
- promote commuter and other more functional transportation methods, and
- create pedestrian-friendly access zones and activity areas that support urban core areas.

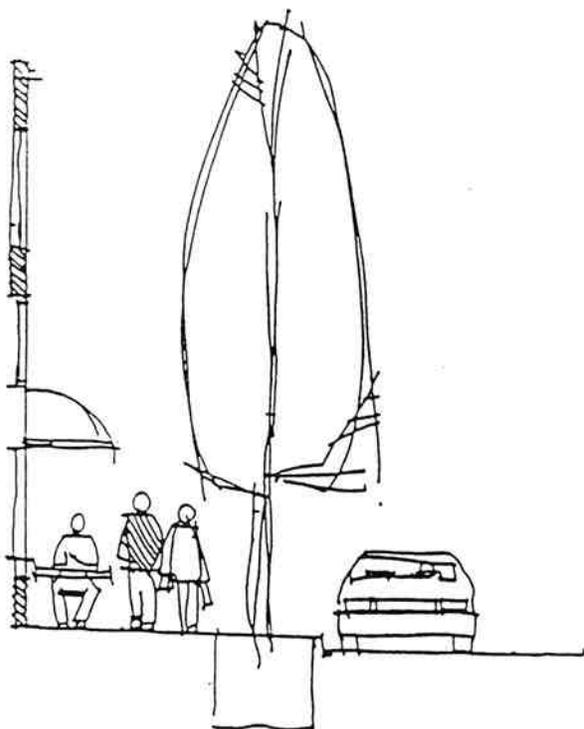


Boardwalk plan

 2 feet



Boardwalk plan - alternating walkway



Boardwalk elevation

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City of Lake Oswego Parks and Recreation Master Plan

Streetscapes and Gateways

- Existing City Gateway
- Proposed City Gateway
- Existing Crossroads Gateway
- Proposed Crossroads Gateway
- Existing Streetscape
- Proposed Streetscape

Existing Streetscape
1. A Avenue - State Street to 3rd Street

Proposed Streetscape
2. A Avenue - 3rd Street to 10th Street
3. State Street - Terwilliger to McVey Ave

Existing City Gateway
a. Terwilliger Boulevard

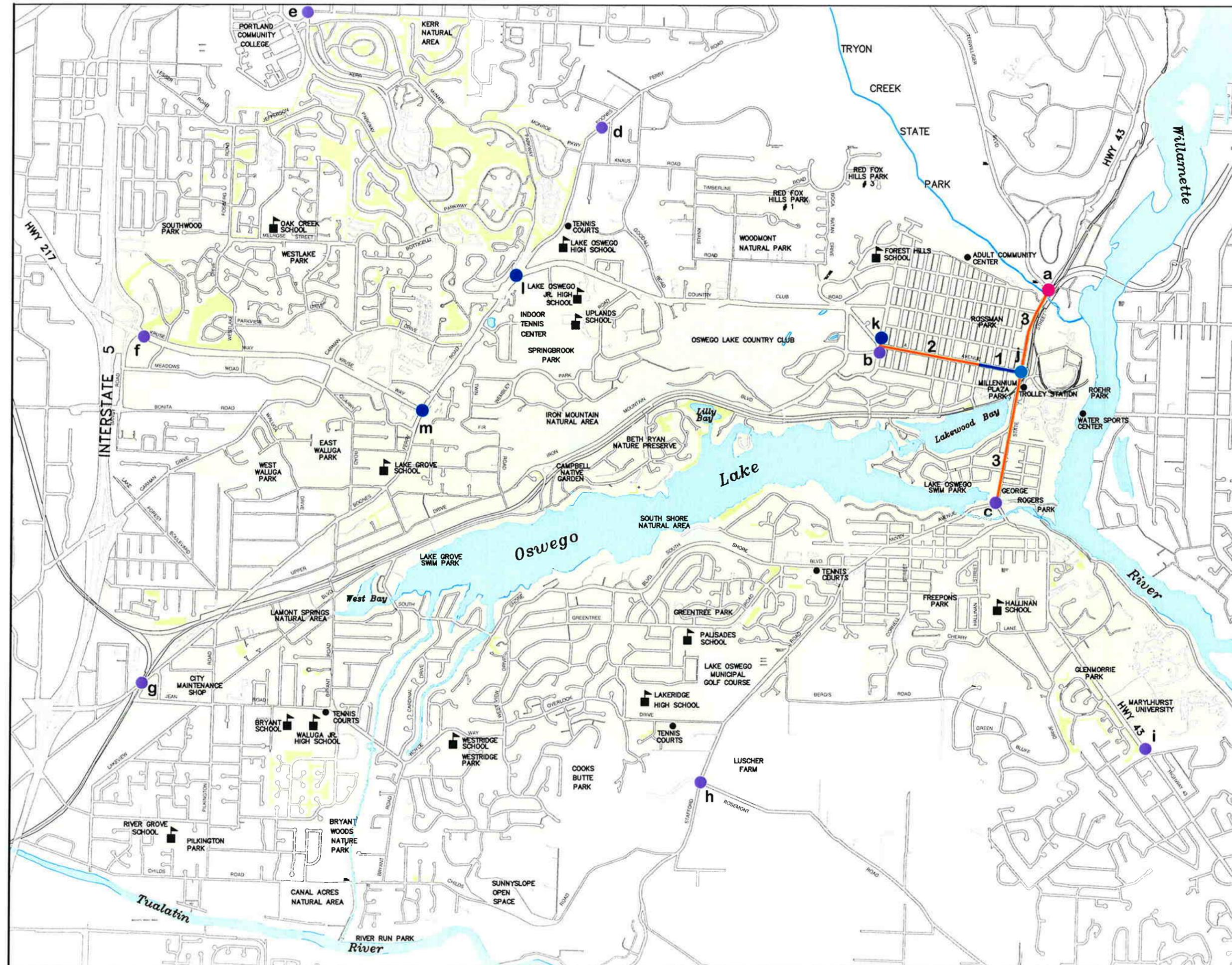
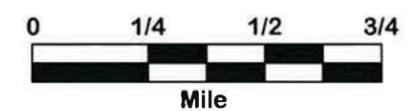
Proposed City Gateways
b. 10th Street
c. McVey Avenue
d. Boones Ferry Road / Condo Court
e. Kerr Parkway / Stephenson Street
f. Kruse Way / Bangy Road
g. Boones Ferry Road / RR Tracks
h. Stafford Road / Rosemont Road
i. Highway 43 / Arbor Drive

Existing Crossroads Gateway
j. A Avenue / State Street

Proposed Crossroads Gateways
k. Country Club Road / A Avenue
l. Country Club Road / Boones Ferry Road
m. Boones Ferry Road / Kruse Way



Geographic
Information
Services



Streetscape projects

Existing

The following street improvements have been accomplished to provide pedestrian amenities in the Lake Oswego business district.

1 A Avenue - State Street to 3rd Street	Intersections improved with special paving, traffic bollards, landscaping, seating areas, street trees, street lighting standards, and other furnishings. Pedestrian crossings widened and vehicular traffic slowed in the intersections. Furnishings within the redeveloped business district could include sidewalk kiosks, vendor sales, and cafes to increase pedestrian visibility and seasonal weather activities. Design themes may highlight historical building facades and this site's strategic sense of place.	0.2
Total streetscape improvement miles		0.2

Proposed

The following street improvements will be accomplished to extend pedestrian amenities through the Lake Oswego business district.

2 A Avenue - 3rd to 10th Street	Intersections improved with limited paving accents, traffic bollards, landscaping, street trees, street lighting standards, and other furnishings. Pedestrian crossings widened and vehicular traffic slowed in the intersections.	0.4
3 State Street - Terwillger to McVey Avenue	Intersections improved with mixed paving accents, traffic bollards, landscaping, seating areas, street trees, street lighting standards, and other furnishings. Pedestrian crossings widened and vehicular traffic slowed in the intersections. Furnishings within the redeveloped business district could include sidewalk kiosks, vendor sales, and cafes to increase pedestrian visibility and seasonal weather activities. Design themes may highlight historical building facades and this site's strategic sense of place.	1.0
Total streetscape improvement miles		1.4

Gateways

Existing

The following gateway improvements have been accomplished to provide a visible accent and entry image into the city and special areas.

a	Terwillger Blvd at State Street	Special signage, landscaping, and benches installed at the intersection on Tryon Creek State Park juncture.	1
Total gateways			1

Proposed

The following gateway improvements will be accomplished to expand visible accents and images upon entry into the city and special areas.

b	10th Street	Special signage, landscaping, street trees, paving, and benches to be installed at intersection.	1
c	McVey Avenue	Special signage, landscaping, street trees, paving, and benches to be installed at intersection.	1
d	Boones Ferry Road- Condo Court	Special signage, landscaping, street trees, paving, and benches to be installed at intersection.	1
e	Kerr Parkway- Stephenson Street	Special signage, landscaping, street trees, paving, and benches to be installed at intersection.	1
f	Jefferson Parkway- Krause Drive	Special signage, landscaping, street trees, paving, and benches to be installed at intersection.	1
g	Lower Boones Ferry Road- Southern Pacific RR	Special signage, landscaping, street trees, paving, and benches to be installed at intersection.	1
h	Stafford Road- Rosemont Road	Special signage, landscaping, street trees, paving, and benches to be installed at intersection.	1
i	Willamette Highway-Arbor Road	Special signage, landscaping, street trees, paving, and benches to be installed at intersection.	1
Total gateways			7

Crossroads gateways

Existing

The following crossroads gateway improvements have been accomplished to provide a sense or special arrival into special areas of the city.

j	A Avenue	Intersection improved with mixed paving accents, traffic bollards, landscaping, seating areas, street trees, street lighting standards, and other furnishings. Pedestrian crossings widened and vehicular traffic slowed in the intersections.	1
Total crossroad gateways			1

Crossroads gateways

Proposed

k	Country Club Road-A Avenue	Intersection to be improved with limited paving accents, traffic bollards, landscaping, street trees, street lighting standards, and other furnishings. Pedestrian crossings to be widened and vehicular traffic slowed in the intersection.	1
l	Country Club Road-Boones Ferry Road	Intersection to be improved with limited paving accents, traffic bollards, landscaping, street trees, street lighting standards, and other furnishings. Pedestrian crossings to be widened and vehicular traffic slowed in the intersection.	1
m	Boones Ferry Road-Kruse Way	Intersection to be improved with limited paving accents, traffic bollards, landscaping, street trees, street lighting standards, and other furnishings. Pedestrian crossings to be widened and vehicular traffic slowed in the intersection.	1
Total crossroad gateways			3

7.11 Rail trails

Rail trails, which may combine railroad trains with other forms of non-motorized trail use, will preserve historic railroad corridors linking urban areas with major parks, landscapes, and scenic corridors.

Generally, rail trails will maintain existing railroad tracks to allow recreational or scenic train rides with possible shared use for general freight, passenger, and other more commercial rail activities where compatible. Recreational or scenic train rides will in turn, extend and incorporate hike and bike opportunities between the train destinations, as return trips, and for spur or short trips off the main line.

To the extent possible, rail trails will utilize historic or period running stock to preserve the original experience and maintain equipment. Rail trail stations, destinations, and stopping points will be improved with trailhead services including rest stops, parking lots, and transit connections. Where the rail trail is located in conjunction with another trail use or park or public facility, the trailhead may be improved with active picnic, playgrounds, and play areas, restrooms, water, and other utilities.

Rail trails may be contained within the original railroad easements or ownership, or as extensions of the public road right-of-way or include portions of other public sites. Rail trail improvements and/or rolling stock may also be developed and maintained on privately-owned lands or operations subject to public use agreements or public access easements.

Vision

As described, the rail trail vision will preserve historic, scenic, and recreational trail opportunities between the most urban developed areas and scenic destinations that:

- conserve natural features,
- preserve historic improvements and artifacts,
- link urban areas and recreational destinations,
- serve persons with varied physical abilities and skills, and
- link rail trail uses with other non-motorized trails.

Proposed rail trail

The following rail trails may be provided as a specialized segment of the regional trail system:

1 Willamette Shore Trolley	In 1984, the line was abandoned and purchased by the non-profit Portland Friends of the Willamette River Greenway. The Oregon Electric Railway Historical Society (OERHS) operates the trolley 7 miles along the west bank of the Willamette River to downtown Portland. Trolleys are run on a daily basis during the summer, on weekends during the winter, and for special events in cooperation with the Lake Oswego, Portland, Clackamas and Multnomah Counties, and Metro.	7.0
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	The route includes 2 high trestles, including the 686-foot long Riverwood Trestle overlooking the Willamette River, and the 1,396-foot long Elk Rock Tunnel with a mid-point curve in darkness. Passenger service is provided from a depot in downtown Lake Oswego on State Street across from Millennium Park 0.5 miles from the original terminus of the line; and stations in downtown Portland on Sheridan Street under the Marquam Bridge and RiverPlace on Harbor Way.		
2	Willamette Shore Trolley-Portland & Willamette Valley/Southern Pacific Railroad Rail Trail	Rail trolley line and service to be extended on shared railroad track from Elk Rock Island Park in Milwaukee across the Willamette River and through Lake Oswego to Stella Olson Park in Sherwood with access to River Villa Park in Johnson City, Roehr Park Addition, Millennium Plaza Park, Iron Mountain Park, Lake Grove Swim Park, and Tualatin Community Park.	12.0

Total proposed miles of rail trail **19.0**

Trailheads

Existing

Trolley station and supporting parking, restroom, signage, bike storage, and other services are provided or may be designated at the following sites.

a	Sheridan Street Station - Portland	Trolley station, retail sales, parking, and signage provided in the historic trolley building located in Governor Tom McCall Waterfront Park in downtown Portland.	1
b	Riverplace Station - Portland	Trolley station, retail sales, parking, and signage provided in a new building located next to Riverplace mixed use development.	1

Total existing stations **2**



City of Lake Oswego Parks and Recreation Master Plan

Rail Trails

- Existing Trailhead
- Proposed Trailhead
- Proposed Rail Trail

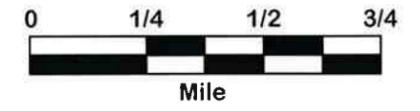
- Proposed Rail Trail**
1. Willamette Shore Trolley
 2. Portland and Western Railroad

- Existing Trailheads**
- a. Sheriton Street Station - Portland
 - b. Riverplace Station - Portland

- Proposed Trailhead**
- c. Millennium Park / State Street
 - d. Willamette Park - Portland
 - e. Peter Kerr Park - Portland
 - f. River Villa Park - Milwaukie
 - g. Elk Rock Island Park - Milwaukie
 - h. Community Park - Tualatin
 - i. Stella Olson Park - Sherwood



Geographic
Information
Services



Trailheads

Proposed

Trolley station and supporting parking, restroom, signage, bike storage, and other services may be provided or may be designated at the following sites.

a	Millennium Plaza Park - State Street Station	Trolley station, retail sales, parking, and signage provided in the historic trolley building located on State Street - 0.5 miles from original terminus of the line.	1
b	Roehr Park Addition - Oswego Pointe Drive	Trolley station, equipment storage, and possible Oregon Electric Railway Historical Society (OERHS) storage, display, and museum to be developed at the end of the rail spur adjacent to the proposed addition of Roehr Park with the Portland sawdust mill site.	1
c	Willamette Park - Portland	Trolley station, parking, and signage to be designated adjacent to trolley tracks.	1
d	Peter Kirk Park - Portland	Trolley station, parking, and signage to be designated adjacent to trolley tracks.	1
e	Elk Rock Island Park - Milwaukie	Trolley station, parking, and signage to be designated adjacent to trolley tracks.	1
f	River Villa Park - Johnson City	Trolley station, parking, and signage to be designated adjacent to trolley tracks.	1
g	Tualatin Community Park - Tualatin	Trolley station, parking, and signage to be designated adjacent to trolley tracks.	1
h	Stella Olson Park - Sherwood	Trolley station, parking, and signage to be designated adjacent to trolley tracks.	1
Total proposed stations			8

7.12 Recreational playgrounds, courts, and fields

Playgrounds and grassy field facilities may be developed on a local basis to provide pickup games, youth sports, and leagues of interest to neighborhood children and families. These local park improvements may be combined with picnic shelters and tables, trail systems, natural areas, local schools, and other facilities to create an accessible neighborhood service system on Lake Oswego.

More competitive athletic court and field facilities may be developed on an area-wide basis to provide for the highest quality competitive playing standards and requirements. The competitive athletic facility complexes may provide field activities that satisfy the largest number of organized and older age recreational league participants - including soccer, football, rugby, lacrosse, softball, and baseball.

Generally, regional athletic facilities may be developed to provide for older youth and adult league tournaments and other peak competition days, events, and schedules - thereby freeing fields located at elementary schools, neighborhood parks, and other local sites for younger age league participant games, practices, and neighborhood resident pickup play.

Neighborhood playgrounds and competitive athletic facilities may be sited as independent properties or portions of other sites that include trail corridors, resource activities, multi-use indoor centers or other public facilities. Where practical, neighborhood playgrounds may be co-located with elementary and intermediate schools, and competitive athletic facilities with middle and high schools. Where feasible and appropriate, both types of facilities may also be sited on lands that are owned and operated for other public purposes.

Generally, neighborhood playgrounds may be located at sites serviced by trails and local bicycling streets that are convenient to younger age neighborhood youth and families. Competitive athletic facilities may be located at sites serviced by arterial roads that are convenient to older age youth and adult league organizations. Regional athletic facilities may also be located on sites that can accommodate relatively high traffic volumes, evening lighted field use, noise, and other activities without adversely impacting adjoining land uses.

Neighborhood playground sites may be developed to provide flexible play capabilities - typically providing 1 to 2 small to full-sized fields at one location. Some sites may be designed to provide high capacity, flexible configurations on large grass or dirt areas with portable goal and backstop stanchions to allow for varied age groups and activities.

Competitive athletic field complexes may be developed to provide sustained, high capacity play capabilities - typically providing at least 3 to 5 full-size competition fields at one location. Most sites may be designed to provide high capacity, fixed field configurations including grass or dirt fields with permanent goals and backstops, perimeter fencing, spectator seating, and night-lighting systems.

Both types of sites may be improved with restrooms, concessions, and parking lots including grass overflow parking areas to accommodate peak events or schedules. Depending on the location, some sites may also be improved with tennis, basketball, volleyball courts, and other recreational facilities. Where appropriate, some regionally competitive athletic sites may also be furnished with group picnic kitchens and possibly even recreational vehicle services to support tournament events.

When practical and feasible, regional athletic facilities may also be defined to include school stadiums, particularly where the stadiums are located with other competition

fields or when the stadium can be used for recreational league tournaments or special events.

Vision

As described, the neighborhood playground, courts, and fields facilities vision may:

- provide flexible, informal playgrounds and areas,
- suited to younger age and local neighborhood game activities,
- in sites convenient to neighborhood youth and families,
- at sites that co-locate with elementary schools and facilities.

The regional courts and fields facilities vision may:

- provide the highest quality competitive play athletic facilities,
- of the highest capacity playing improvement designs,
- within convenient proximity to organized adult and older age recreational league playing populations,
- at sites that do not disrupt adjacent land uses, and
- at sites that co-locate with schools and/or utilize other major public facilities.

The strategy may alleviate overcrowding on smaller, more local park and elementary school fields so these sites can be used for younger age league participant games, practice sessions, and neighborhood resident pickup games.

Playgrounds and play areas

Existing

The following sites provide swings, slides, and other playground equipment.

1	Freepons Park	Structured playground in grassy setting with benches and trails.	1
2	George Rogers Park	Large structured playground in grassy, forest setting with benches, picnic tables, and restrooms.	1
3	Greentree Park	Structured playground and play area in grassy setting adjacent recreational court.	1
4	Millennium Park	Formal park and urban setting with water fountain, benches, and steps to waterfront.	1
5	Red Fox Hills #1	Structured playground located next to nature trail.	1
6	Red Fox Hills #2	Structured playground located next to nature trail.	1
7	Rossman Park	Structured playground in grassy setting with benches and shelter.	1
8	East Waluga Park	Structured playground located next to picnic tables and ballfields.	1
9	West Waluga Park	Structured playground located in grassy setting with benches, picnic tables, shelter, and trails.	1
10	Westlake Park	Structured playground located next to play area, picnic tables, and ballfields.	1

Playgrounds and play areas

Existing (cont.)

11	Westridge Park	Structured playground located next to play area, picnic tables, and ballfields.	1
12	Bryant ES	Structured playground and play area located next to classrooms and fields.	1
13	Forest Hills ES	Structured playground and play area located next to classrooms and fields.	1
14	Hallinan ES	Structured playground and play area located next to classrooms and fields.	1
15	Lake Grove ES	Structured playground and play area located next to classrooms and fields.	1
16	Oak Creek ES	Structured playground and play area located next to classrooms and fields.	1
18	Palisades ES	Structured playground and play area located next to classrooms and fields.	1
19	River Grove ES	Structured playground and play area located next to classrooms and fields.	1
20	Uplands ES	Structured playground and play area located next to classrooms and fields.	1
21	Westridge ES	Structured playground and play area located next to classrooms and fields.	1
22	Lake Grove Swim Park	Structured playground located in wooded setting next to picnic tables, shelter, and swimming beach.	1
23	Mount Sylvania Park	Structured playground located in grassy setting next to picnic tables in HOA commons.	1
Total existing playgrounds			23

Proposed

The following sites may provide swings, slides, and other playground equipment.

25	Roehr Park Addition	Develop structured playground and grassy play area next to picnic area, trails, and waterfront.	1
26	Hallinan Park	Develop structured playground in grassy area next to benches and trail.	1
27	Cornell Park	Develop structured playground next to trail.	1
28	Luscher Farm	Develop structured playgrounds and grassy play areas next to homestead and barn activity area, in the north activity area on Stafford Road and in the east activity area off Rosemont Road.	3
29	River Run Park	Develop structured playground and grassy play area next to picnic tables, trail, and waterfront.	1

Playgrounds and play areas

Proposed (cont.)

30	Southwood Park	Develop structured playground and grassy play area with picnic tables, and trail in wooded setting.	1
31	Springbrook Park	Develop structured playground and grassy play area with picnic tables, and trail in wooded setting next to Indoor Tennis Center.	1
32	Adult Community Center	Develop small playground and grassy play area feature with picnic tables, and trail in wooded setting next to the building complex for visitors.	1
Total proposed playgrounds			10



City of Lake Oswego Parks and Recreation Master Plan

Playgrounds

- Existing Private Playground
- Existing Public Playground
- Proposed Public Playground

Existing Private Playground

- a. Lake Grove Swim Park

Existing Public Playground

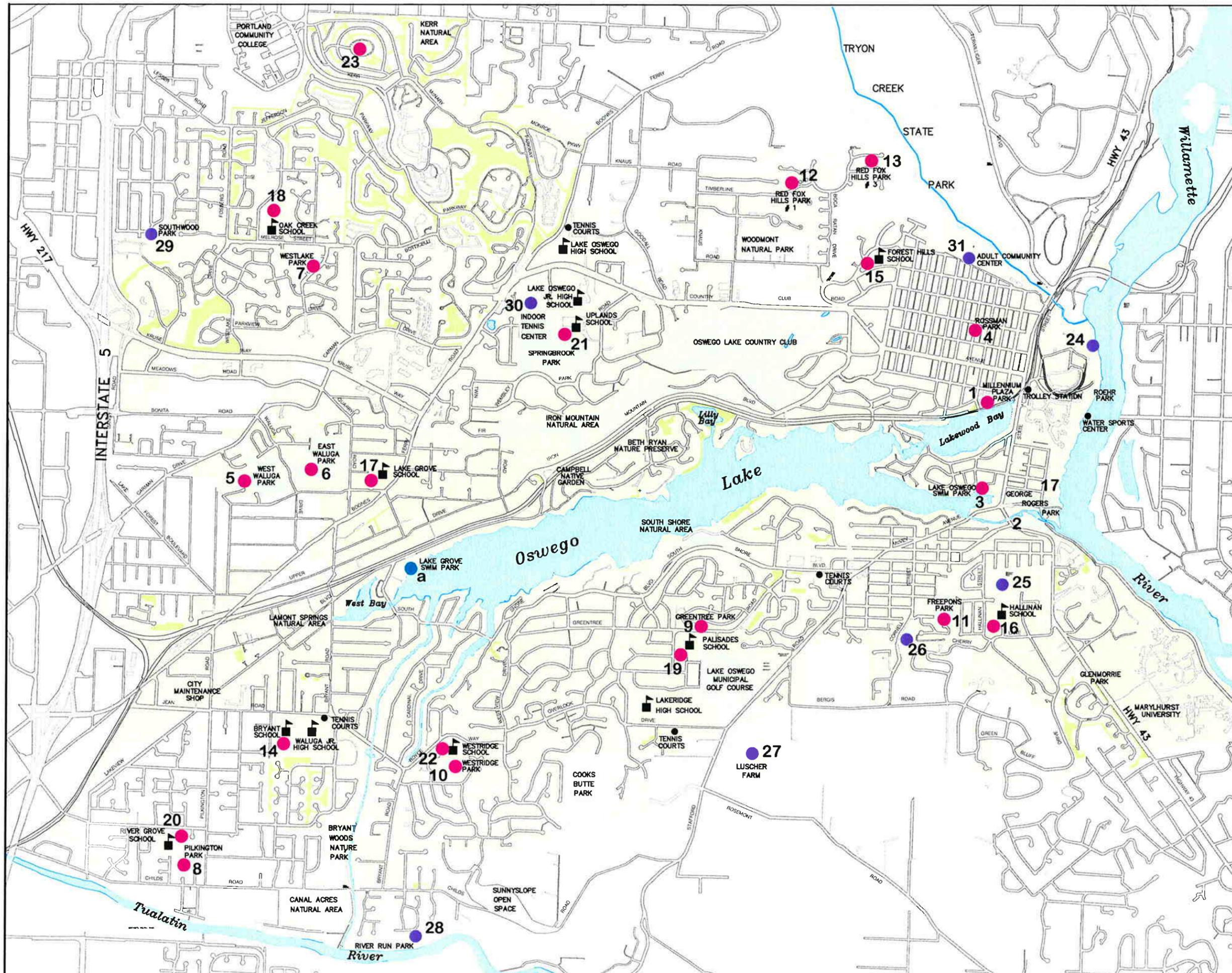
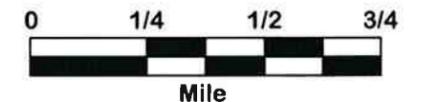
1. Millennium Park
2. George Rogers Park
3. Lake Oswego Swim Park
4. Rossman Park
5. West Waluga Park
6. East Waluga Park
7. Westlake Park
8. Pilkington Park
9. Greentree Park
10. Westridge Park
11. Freepson Park
12. Red Fox Hills Park #1
13. Red Fox Hills Park #3
14. Bryant Elementary School
15. Forest Hills Elementary School
16. Hallinan Elementary School
17. Lake Grove Elementary School
18. Oak Creek Elementary School
19. Palisades Elementary School
20. River Grove Elementary School
21. Uplands Elementary School
22. Westridge Elementary School
23. Mount Sylvania Park (City of Portland)

Proposed Playgrounds

24. Roehr Park Addition
25. Hallinan Natural Area
26. Cornell Natural Area
27. Luecher Farm
28. River Run Park
29. Southwood Park
30. Springbrook Park
31. Adult Community Center



Geographic
Information
Services



Basketball courts - outdoor

Existing

The following sites provide half or full basketball courts.

1	Greentree Park	Full court located next to playground and play area.	1
2	Westlake Park	Full court located next to tennis courts, playground, and restroom.	1
3	Bryant ES	Covered full court located next to play area and playground - 2 baskets.	1
4	Forest Hills ES	Covered full court located next to play area and playground - 4 baskets.	2
5	Hallinan ES	Covered full court located next to play area and playground - 4 baskets.	2
6	Oak Creek ES	Covered full court located next to play area and playground - 4 baskets.	2
7	Lake Grove ES	Covered full court located next to play area and playground - 4 baskets.	2
8	Palisades ES	Covered full court located next to play area and playground - 2 baskets.	1
9	River Grove ES	Covered full court located next to play area and playground - 4 baskets.	2
10	Uplands ES	Covered full court located next to play area and playground - 4 baskets.	2
11	Westridge ES	Covered full court located next to play area and playground - 4 baskets.	2
12	Lake Oswego JH	Full court located next to common activity area.	1
13	Waluga JH	Full courts located next to tennis courts and common activity area	4
Total existing outdoor basketball courts			24

Volleyball courts - outdoor

Existing

The following sites provide outdoor volleyball courts.

15	Lake Grove Swim Park	Sand volleyball court located next to picnic tables, shelter, and swimming beach in park district facility operated by Lake Oswego School District.	1
16	Westridge Park	Grass volleyball court located next to picnic tables and play area.	1
Total existing outdoor volleyball courts			2

Volleyball courts - outdoor

Proposed (cont.)

The following sites may provide outdoor volleyball courts.

2	West Waluga Park	Develop sand volleyball court next to picnic tables, playground, and play area.	1
3	Westlake Park	Develop sand volleyball court next to picnic tables and play area.	1
18	George Rogers Park	Develop sand volleyball courts next to grassy play area and in wooded area next to picnic shelters.	2
19	Rossman Park	Develop sand volleyball court next to picnic area.	1
20	East Waluga Park	Develop sand volleyball court next to picnic tables, shelter, and grassy play area.	1
21	Roehr Park Addn	Develop sand volleyball court next to picnic area and waterfront activities.	1
22	Luscher Farm	Develop sand volleyball courts in north activity area on Stafford Road and east activity area off Rosemont Road.	2
23	Pilkington Park	Develop sand volleyball court next to picnic tables and grassy play area.	1
24	Springbrook Park/Upland ES	Develop sand volleyball court next to picnic area and trails.	1
25	Adult Community Center	Develop sand volleyball court next to small playground, picnic tables, and trail.	1
Total proposed outdoor volleyball courts			12

Skateboard, in-line rollerblade, bmx courts

Existing

The following site provides a skateboard court.

17	Skate Park at Public Works Yard	New concrete facility with portable wooden ramps developed next to City Maintenance Shops on Willow Road.	1
Total existing skateboard courts			1

Proposed

The following sites may provide skateboard, in-line rollerblade, and bmx courts.

13	Lake Oswego JH or HS	Develop multipurpose facility with jumps and side walls in school commons activity area.	1
14	Waluga JH or Lakeridge HS	Develop multipurpose facility with jumps and side walls in school commons activity area.	1
Total proposed skateboard, in-line rollerblade, and bmx courts			2



City of Lake Oswego Parks and Recreation Master Plan

Basketball, Volleyball and Skateboard Courts

- Existing Private Court
- Existing Public Court
- Proposed Public Court

Existing Private Volleyball Court

- a. Lake Grove Swim Park

Existing Public Basketball Courts

1. Greentree Park
2. Westlake Park
3. Bryant Elementary School
4. Forest Hills Elementary School
5. Hallinan Elementary School
6. Oak Creek Elementary School
7. Lake Grove Elementary School
8. Palisades Elementary School
9. River Grove Elementary School
10. Uplands Elementary School
11. Westridge Elementary School
12. Lake Oswego Jr. High School
13. Waluga Jr. High School

Existing Volleyball Court

14. Westridge Park

Existing Skate/In-line Court

15. Lake Oswego Skateboard Park

Proposed Volleyball Courts

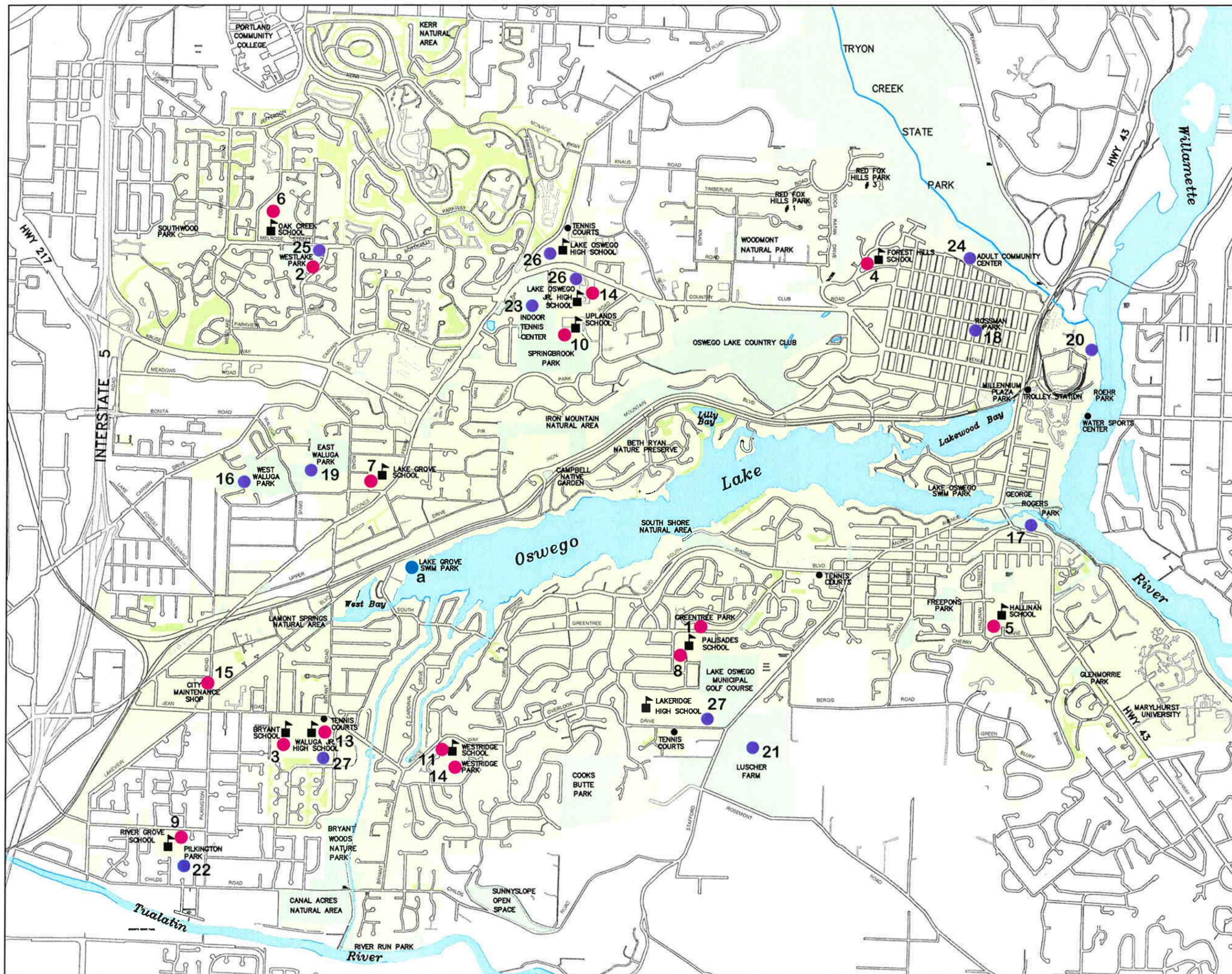
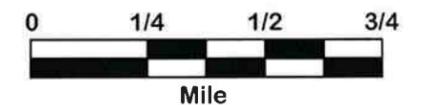
16. West Waluga Park
17. George Rogers Park
18. Rossman Park
19. East Waluga Park
20. Roehr Park
21. Luscher Farm
22. Pilkington Park
23. Springbrook Park
24. Adult Community Center
25. Westlake Park

Proposed Skate/In-line/BMX Court

26. Lake Oswego Jr. High School or High School
27. Waluga Jr. High School or Lakeridge High School



Geographic
Information
Services



Tennis courts

Existing

The following sites provide regulation tennis courts.

1	George Rogers Park	Outdoor court area located next to picnic area, playground, and athletic fields.	2
2	Westlake Park	Outdoor court area located next to picnic tables, playground, play area, and athletic fields.	2
3	South Shore Tennis Courts	Outdoor court area located next to natural area.	1
4	Waluga JH	Outdoor courts located next to basketball court and athletic field complex.	2
5	Lake Oswego HS	Outdoor courts located next to athletic fields.	6
6	Lakeridge HS	Outdoor courts (3 lighted) located in student activity area.	6
7	Mountain Park Racquet Club	6 outdoor courts (4 lighted) and 9 indoor courts. <i>For private club members only.</i>	15
8	Oswego Lake Country Club	Outdoor courts located next to swimming pool complex. <i>For private club members only.</i>	2
9	Indoor Tennis Courts	Indoor courts located in instruction complex in Springbrook Park.	4
10	Mountain Park Recreation Center	Indoor courts located next to swimming pool in <i>private HOA complex.</i>	2

Total existing tennis courts

42

Racquetball courts

Existing

The following sites provide regulation indoor racquetball courts.

8	Mountain Park Racquet Club	Indoor courts located in private racquet club complex. <i>For private club members only.</i>	3
12	Rivers Edge Athletic Club	Indoor courts located in private athletic club complex. <i>For private club members only.</i>	4

Total existing racquetball courts

7

Squash courts

Existing

The following sites provide regulation indoor squash courts.

8	Mountain Park Racquet Club	Indoor court located in private racquet club complex. <i>For private club members only.</i>	1
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Total existing racquetball courts

1



City of Lake Oswego Parks and Recreation Master Plan

Tennis, Raquetball and Squash Courts

- Existing Private Courts
- Existing Public Courts

Existing Private Outdoor Tennis Courts
 a. Mountain Park Racquet Club
 b. Oswego Lake Country Club

Existing Public Outdoor Tennis Courts
 1. George Rogers Park
 2. Westlake Park
 3. South Shore Tennis Courts
 4. River Grove Elementary School
 5. Waluga Jr. High School
 6. Lake Oswego High School
 7. Lakeridge High School

Existing Private Indoor Tennis Courts
 a. Mountain Park Racquet Club
 c. Mountain Park Recreation Center

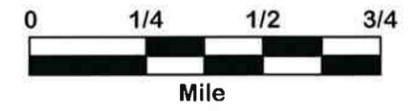
Existing Public Indoor Tennis Courts
 8. Indoor Tennis Center

Existing Private Indoor Raquetball Courts
 a. Mountain Park Racquet Club
 d. River's Edge Athletic Club

Existing Private Indoor Squash Courts
 a. Mountain Park Racquet Club



Geographic
Information
Services



Soccer fields

Existing youth fields

The following sites provide youth soccer fields.

1	Forest Hills ES	150'-225' grass field with standards.	1
2	Lake Grove ES	150'-210' grass field with standards in poor condition.	1
3	Lake Oswego JH #1, #2	90'-180' lighted grass fields with standards in average condition.	1
4	Palisades ES #2	120'x180' grass field with standards.	1
5	Uplands ES #1, #2	120'x170' grass fields with standards.	2
6	Waluga JH #1	150'x180' lighted grass with standard.	1
Total existing youth soccer fields			7

Proposed youth fields

The following sites may provide youth soccer fields.

2	Lake Grove ES	Upgrade 150'-210' grass field for league use.	1
Total proposed youth soccer fields			1

Existing youth/adult fields

The following sites provide youth/adult soccer fields.

1	George Rogers Park	180'x270' lighted grass field with standards.	1
2	Pilkington Park	180'x270' grass field with standards.	1
3	Westlake Park	220'x300' lighted grass field with standards.	1
4	Bryant ES	180'x300' grass field with standards.	1
5	Hallinan ES	180'x300' grass field with standards.	1
6	Oak Creek ES	180'x300' grass field with standards.	1
7	Palisades ES #1	180'x300' grass field with standards.	1
8	River Grove ES	210'x330' grass field with standards.	1
9	Westridge ES	180'x300' grass field with standards.	1
10	Waluga JH #2	210'x330' lighted grass field with standards.	1
11	Lake Oswego HS	210'x330' lighted synthetic field with standards and bleachers.	2
12	Lakeridge HS	210'x330' lighted synthetic field with standards and bleachers.	2
Total existing youth/adult soccer fields			14

Soccer fields (cont.)

Proposed youth/adult fields

The following sites may be provided youth/adult soccer fields.

13	Site to be determined	Develop a 70x110-yard lighted grass field with standards and four 70x110-yard fields in a grassy multipurpose area.	5
14	Stafford Area or Site to be Determined	Obtain use agreement and/or develop 70x110-yard grass field with standards for league use.	1
15	Stafford Area or Site to be Determined	Obtain use agreement and/or develop 70x110-yard grass field with standards for league use.	1
Total proposed youth/adult soccer fields			7



City of Lake Oswego Parks and Recreation Master Plan

Soccer - Youth Fields

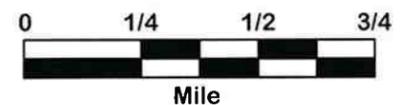
● Existing Fields 40-50' x 60-70'

Existing Youth Soccer Fields

1. Forest Hills Elementary School
2. Lake Grove Elementary School
3. Lake Oswego Jr. High School
4. Palisades Elementary School
5. Uplands Elementary School
6. Waluga Jr. High School



Geographic
Information
Services





City of Lake Oswego Parks and Recreation Master Plan

Soccer - Youth/Adult Fields

- Existing Fields - 70' x 110'
- Proposed Fields - 70' x 110'

Existing Youth/Adult Soccer Fields

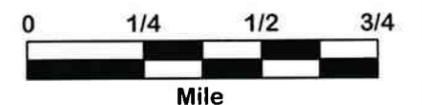
1. George Rogers Park
2. Pilkington Park
3. Westlake Park
4. Bryant Elementary School
5. Hallinan Elementary School
6. Oak Creek Elementary School
7. Palisades Elementary School
8. River Grove Elementary School
9. Westridge Elementary School
10. Waluga Jr. High School
11. Lake Oswego High School
12. Lakeridge High School

Proposed Youth/Adult Soccer Fields

Stafford Area - Site to be determined



Geographic
Information
Services



Football fields

Existing

The following site provides a regulation football field.

1	Lake Oswego JH	Regulation lighted grass field with standards and bleachers.	1
2	Waluga JH	Regulation lighted grass field with standards and bleachers.	1
3	Lake Oswego HS	Regulation lighted synthetic field with standards, bleachers, concessions, and restrooms - also practice field.	2
4	Lakeridge HS	Regulation lighted synthetic field with standards, bleachers, concessions, and restrooms.	2
5	Portland Community College	Regulation field with standards - not available for league use.	0
Total existing football fields			6

Track

Existing

The following sites provide track facilities.

1	Lake Oswego HS	Regulation rubber-surfaced 400-meter 6-lane field track sited around football field sharing lights, bleacher stands, and concessions.	0.25
2	Lakeridge HS	Regulation rubber-surfaced 400-meter 6-lane field track sited around football field sharing lights, bleacher stands, and concessions.	0.25
3	Portland Community College	Regulation field track sited around football/soccer field.	0.25
Total existing miles of track			0.75



City of Lake Oswego Parks and Recreation Master Plan

Football and Track

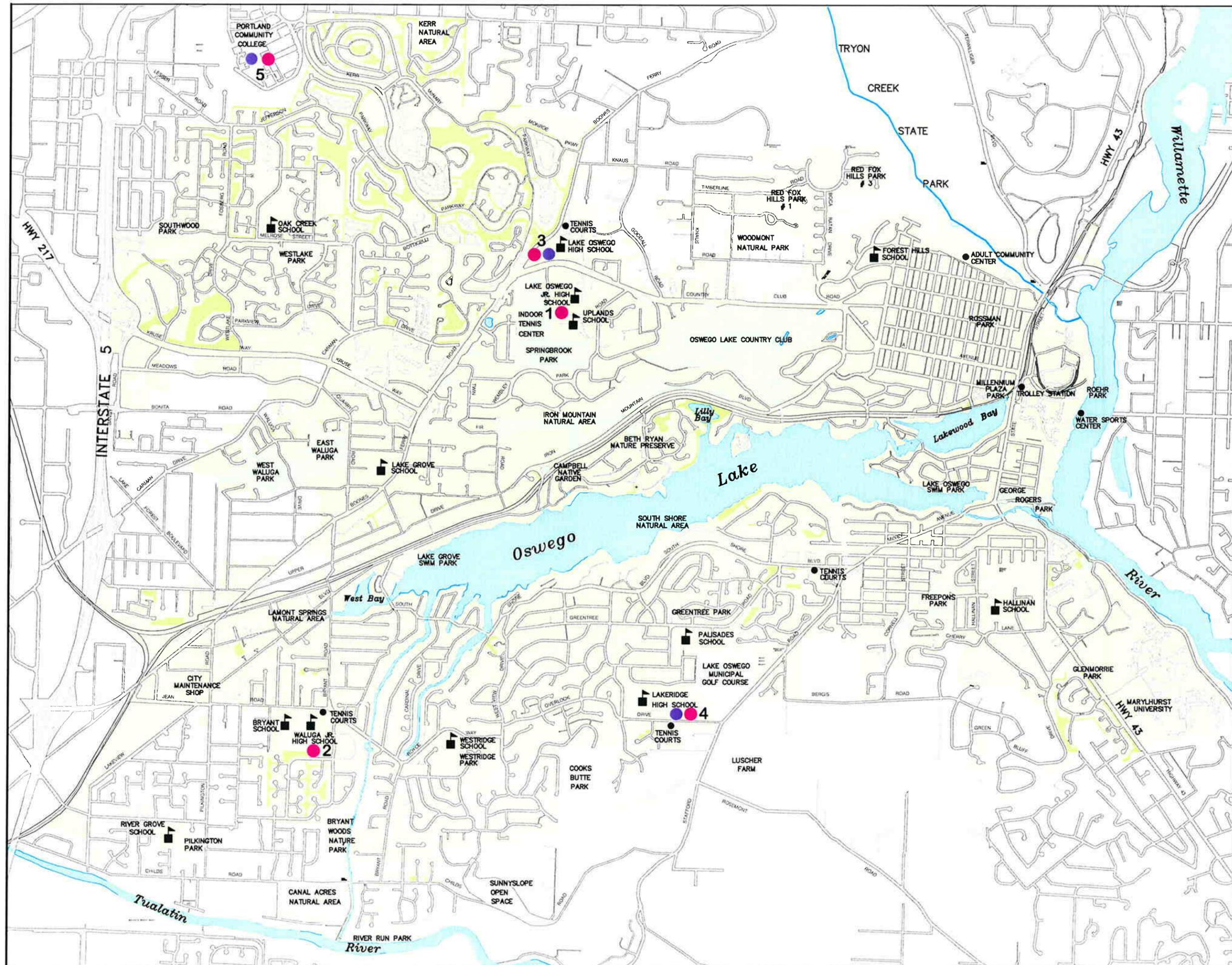
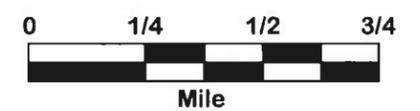
- Existing Football Fields
- Existing Tracks

- Existing Football Fields**
1. Lake Oswego Jr. High School
 2. Waluga Jr. High School
 3. Lakeridge High School
 4. Lake Oswego High School
 5. Portland Community College

- Existing Tracks**
3. Lake Oswego High School
 4. Lakeridge High School
 5. Portland Community College



Geographic
Information
Services



Baseball/softball fields

Existing youth fields

The following sites provide youth baseball and softball fields.

1	George Rogers Park LL#1, LL#2	60x200-foot lighted grass Little League, softball fields with fence, bleachers, and concessions.	2
2	East Waluga Park LL#1	60x200-foot lighted grass Little League, softball field with fence, bleachers, and concessions.	1
3	Westlake Park LL#1	60x200-foot lighted grass Little League, softball field with portable fence, bleachers, and concessions.	1
4	Bryant ES #1, #2	60x200-foot grass baseball, softball fields with backstop.	2
5	Forest Hills ES #1, #2	60x200-foot grass baseball, softball fields with backstop - poor condition.	0
6	Hallinan ES	60x200-foot grass multiuse field with backstop - used for T-Ball.	1
7	Lake Grove ES #1, #2	60x200-foot grass baseball, softball field with backstop - average condition.	2
8	Palisades ES #1, #2	60x150-foot and 60x200-foot grass baseball, softball fields with backstops - poor condition.	0
9	River Grove ES	60x150-foot grass multiuse field with backstop.	1
10	Uplands ES #1, #2	60x180-foot grass baseball, softball field with backstop.	2
11	Westridge ES	60x200-foot grass multiuse field with backstop.	1
12	Lake Oswego JH LL#1, SB#2	60x200-foot and 60x250-foot lighted grass baseball, softball field with fence and bleachers.	2
13	Waluga JH LL#1, LL#2, LL#3	60x200-foot lighted grass baseball, softball fields and bleachers.	3
Total existing youth baseball/softball fields			18

Proposed youth fields

The following sites may be provided youth baseball and softball fields.

5	Forest Hills ES #1, #2	Upgrade 60x200-foot grass baseball, softball fields for league use.	2
8	Palisades ES #1, #2	Upgrade 60x150-foot and 60x200-foot grass baseball, softball fields for league use.	2
14	Stafford area or site to be determined	Develop and 60x250-foot lighted baseball, softball grass field.	1
Total proposed youth baseball/softball fields			5



City of Lake Oswego
Parks and Recreation
Master Plan

Baseball and Softball
Youth Fields

● Existing Ballfields - 60' x 180'-250'

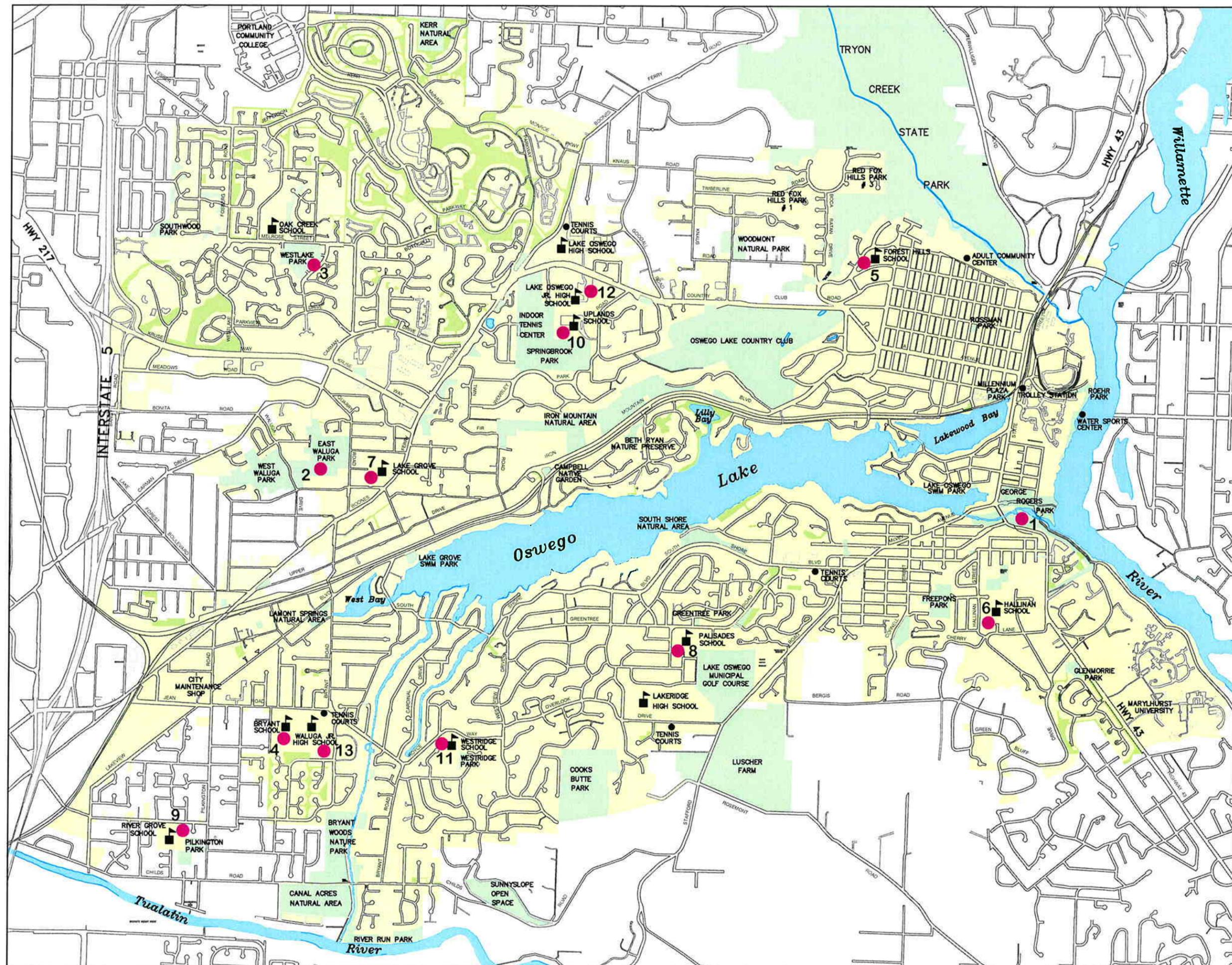
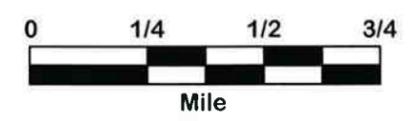
Existing Ballfields

1. George Rogers Park
2. East Waluga Park
3. Westlake Park
4. Bryant Elementary School
5. Forest Hills Elementary School
6. Hallinan Elementary School
7. Lake Grove Elementary School
8. Palisades Elementary School
9. River Grove Elementary School
10. Uplands Elementary School
11. Westridge Elementary School
12. Lake Oswego Jr. High School
13. Waluga Jr. High School

Proposed Ballfields - 60' x 200'+
 Site to be determined



Geographic
 Information
 Services



Baseball/softball fields (cont.)

Existing youth/adult fields

The following sites provide older youth and adult baseball and softball fields.

1	East Waluga Park #1	90x300-foot lighted grass baseball, softball field with fence, bleachers, and concessions.	1
2	Westlake Park #1, #3	90x300-foot lighted grass baseball, softball field and bleachers.	2
3	Lake Oswego HS	60x300-foot lighted grass baseball, softball field with fence and bleachers.	1
4	Lakeridge HS #1, #2	60x300-foot (1 lighted) grass baseball, softball field with fence and bleachers.	2
Total existing youth/adult baseball/softball fields			6

Proposed youth/adult fields

The following sites may provide older youth and adult baseball and softball fields.

4	Lakeridge HS #1, #2	Light one 60x300-foot grass baseball, softball field with fence and bleachers.	0
5	Stafford area or site to be determined	Obtain use agreement and/or develop 60x300-foot field for public play.	1
6	Stafford area or site to be determined	Obtain use agreement and/or develop 60x300-foot field for public play.	1
7	Stafford area or site to be determined	Develop 60x300-foot lighted grass field with fence, bleachers, and concessions.	1
Total proposed youth/adult baseball/softball fields			3



**City of Lake Oswego
Parks and Recreation
Master Plan**

**Baseball and Softball
Youth / Adult Fields**

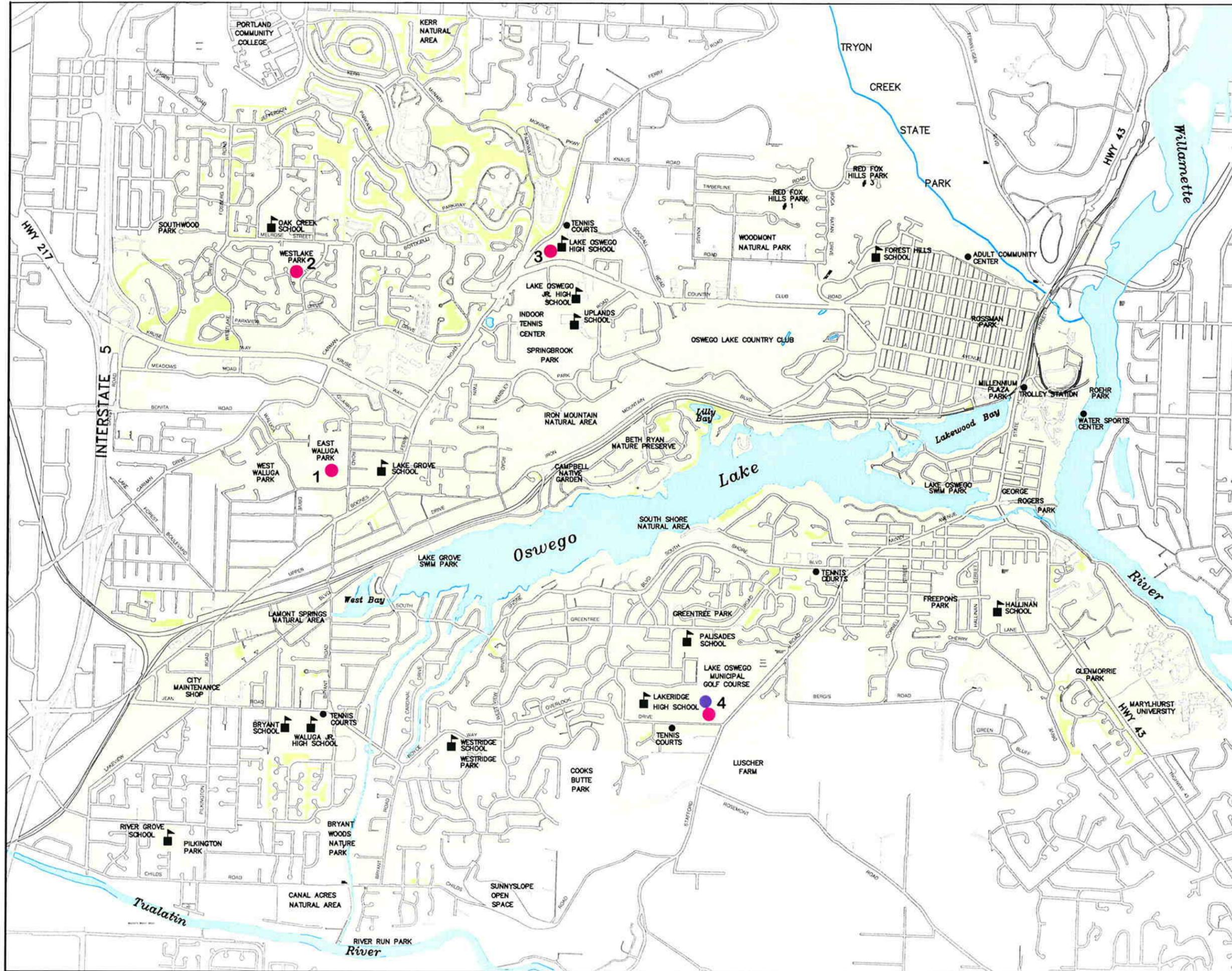
- Existing Ballfields - 90' x 300'
- Proposed Ballfields - 90' x 300'

Existing Ballfields

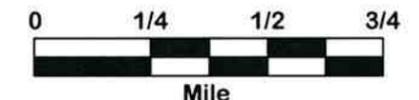
1. East Waluga Park #1
2. Westlake Park #1, #3
3. Lake Oswego High School
4. Lakeridge High School #1, #2

Proposed Ballfields

4. Lakeridge High School (Light one existing 60' x 300' field) Stafford area or site to be determined



Geographic
Information
Services



7.13 Recreation/community centers

Community centers may be developed to provide indoor activities on a year-round basis throughout and/or centrally accessible to Lake Oswego residents for day and evening use. The facilities may be developed within a market oriented service concept that protects the specialized investments that have already been made in these facilities by the school district, county, and private organizations.

Under some circumstances, community centers may not be developed in the expanding urban growth areas where the using population will not be of sufficient size to realistically support an independent facility. In these circumstances, an existing center may be expanded within the next closest or supportable service area to provide facility requirements and programs.

Indoor community or recreation facilities may provide space for swimming pools (including outdoor facilities), gymnasiums, physical conditioning, arts and crafts, class and instruction rooms, meeting facilities, kitchens and dining, daycare and latch key, teen and senior center, and special population resource activities. Community centers may also incorporate art studios and galleries, historic museums, interpretive nature exhibits, and other buildings or constructions.

To the extent practical, community or recreation centers may utilize and/or be developed in conjunction with local school facilities. Where practical, school facilities may be utilized for after school programs that provide swimming pools, indoor gymnasiums, class and instruction space, meeting facilities, kitchen and dining either as loaned or leased space.

New buildings or additions may be built on or in conjunction with school sites as a shared resource when existing school spaces are not available or of sufficient size to accommodate needs. As a last resort, independent community centers may be developed to provide space only where schools are not able to share space and sites.

Independent community center buildings and sites may also be developed to provide space and services for adult, senior or teen center activities that occur during or conflict with school activities and sites. Generally, these facilities may provide space and services that are not suitably provided at school sites or that may not be duplicated by school facilities and programs.

A variety of other public and private agencies may provide adult, senior, and teen center services in association with the park department.

When community and recreation centers are developed independent of school facilities, the buildings may be independent properties or portions of other sites that include trail corridors, resource activities, athletic facilities or other public facilities such as civic centers and libraries.

Vision

As described, the community and recreation center vision may:

- provide a variety of indoor activities,
- within a convenient and serviceable proximity to using populations,
- within a facility and services concept that recognizes and supports the investments that have already made in existing park department, and school facilities and programs, and
- in cooperative ventures with other interested and participating public and private agencies.

Swimming pools

Existing - indoor and outdoor pools

The following sites provide indoor and outdoor swimming pools and locker facilities.

1	Lake Oswego HS	Indoor 25-yard pool with 8 lap lanes, diving areas, and lockers.	3,000
2	North Clackamas Aquatic Park - Milwaukie	Indoor aquatic park with 6 lane lap and instructional pool, diving pool, recreational pool with wave action, water slides, kiddie pool, jacuzzi hot tub, indoor lounge area, outdoor volleyball, grass play area, and picnic facilities, concessions, and lockers.	10,000
3	Tigard Swim Center - Tigard	Indoor swimming pool with lap lanes, diving areas, and lockers.	6,000
4	Portland Community College	Indoor 25-yard pool with lap lanes, diving areas, and lockers - <i>not available for public use.</i>	0
5	Mountain Park Recreation Center	Indoor 50-meter swimming pool with 6 lap lanes, diving board, and lockers - <i>for HOA members only.</i>	2,000
6	River's Edge Athletic Club	Indoor swimming pool with lap lanes and lockers - <i>For private members only.</i>	1,200
7	Bryant Woods Neighborhood Pool	Outdoor recreational pool facility with lap lanes, diving areas, and lockers - <i>for HOA members only.</i>	2,000
8	Greentree Swimming Assn	Outdoor recreational pool facility with lap lanes, diving areas, and lockers - <i>for Association members only.</i>	2,000
9	Oswego Lake Country Club	Outdoor recreational pool facility with lap lanes, diving areas, and lockers - <i>for private club members only.</i>	2,000
Total existing pool square footage			28,200

* Estimated square footage.

Proposed

The following sites may be provided swimming facilities.

1	Lake Oswego HS	Upgrade and/or redevelop the existing indoor pool to provide 50-meter competition facility with lap lanes, diving areas, and lockers.	+2,000
4	Portland Community College	Obtain use agreement for indoor 25-yard pool for public swim teams and competitions.	3,000
10	Lake Oswego Swim Center	Develop indoor recreational family pool with lap lanes, slides, diving area, therapy pool, concessions, and lockers: a) adjacent to Luscher Farm or b) Roehr Park Addition.	4,000
Total proposed pool square footage			9,000



City of Lake Oswego Parks and Recreation Master Plan

Swimming Pools

- Existing Private Swimming Pools
- Existing Public Swimming Pools
- Proposed Public Swimming Pools

Existing Private Indoor Swimming Pools
 a. Mountain Park Recreation Center
 b. River's Edge Athletic Club

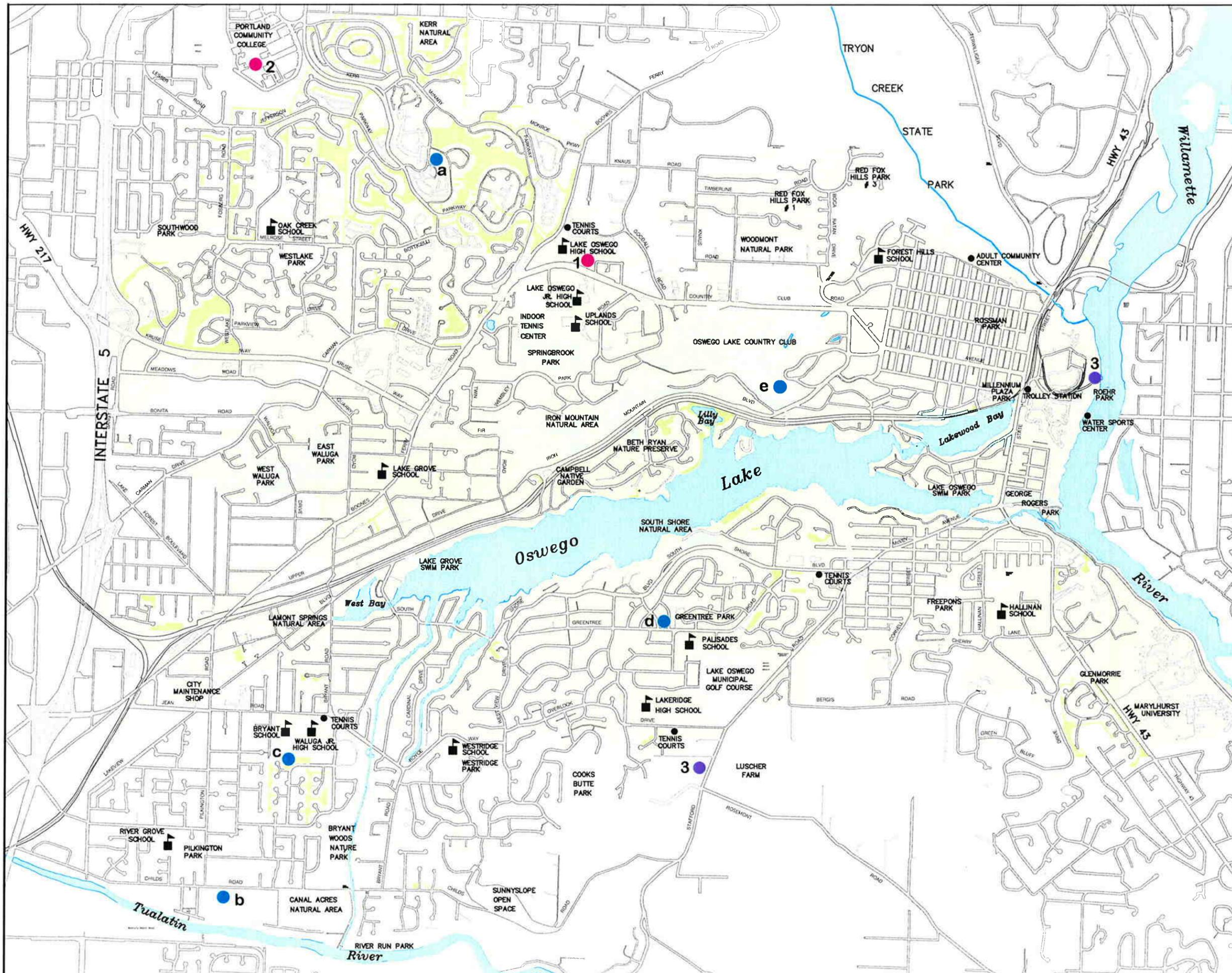
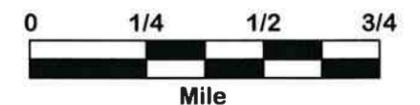
Existing Private Outdoor Pools
 c. Bryant Woods Neighborhood Pool
 d. Greentree Swimming Association
 e. Oswego Lake Country Club

Existing Public Indoor Swimming Pools
 1. Lake Oswego High School
 2. Portland Community College
 North Clackamas Aquatic Park
 Tigard Swim Center

Proposed Public Swimming Pools
 3. Lake Oswego Swim Center



Geographic
Information
Services



Gymnasiums

Existing

The following sites provide indoor gymnasiums providing basketball and volleyball courts, bleachers, and other facilities.

1	Bryant ES	Small gymnasium with 4 side baskets.	4,000
2	Forest Hills ES	Small adjustable gymnasium with 4 side baskets.	5,000
3	Hallinan ES	Small adjustable gymnasium with 4 side baskets.	5,000
4	Oak Creek ES	Small adjustable gymnasium with glass backboards, 4 side baskets.	5,000
5	Lake Grove ES	Small adjustable gymnasium with glass backboards, 4 side baskets.	5,000
6	Palisades ES	Small adjustable gymnasium with 2 side baskets.	4,000
7	River Grove ES	Small adjustable gymnasium with 4 side baskets.	5,000
8	Uplands ES	Small adjustable gymnasium with 4 side baskets.	5,000
9	Westridge ES	Small adjustable gymnasium with 4 side baskets.	5,000
10	Lake Oswego JH	Medium adjustable gymnasium with glass backboards, 4 side baskets.	7,500
11	Waluga JH	Medium adjustable gymnasium with glass backboards, 4 side baskets.	7,500
12	Lake Oswego HS	Large gymnasiums (2) with competition courts, bleachers, and scoreboard - not available for public use.	15,000
13	Lakeridge HS	Large gymnasiums (2) with competition courts, bleachers, and scoreboard - not available for public use.	15,000
14	Portland Community College	Large gymnasiums (2) with competition courts, bleachers, and scoreboard - not available for public use.	15,000
15	Marylhurst College	Large gymnasiums (2) with competition courts, bleachers, and scoreboard - not available for public use.	10,000
16	National Guard Armory	Large gymnasium with limited availability for public use on scheduled basis.	10,000
17	River's Edge Athletic Club	Small adjustable gymnasium for day-use activities - for club members only.	5,000
Total existing square footage			123,000

* Estimated square footage.



City of Lake Oswego Parks and Recreation Master Plan

Gymnasiums

- Existing Private Gymnasiums
- Existing Public Gymnasiums
- Proposed Public Gymnasiums

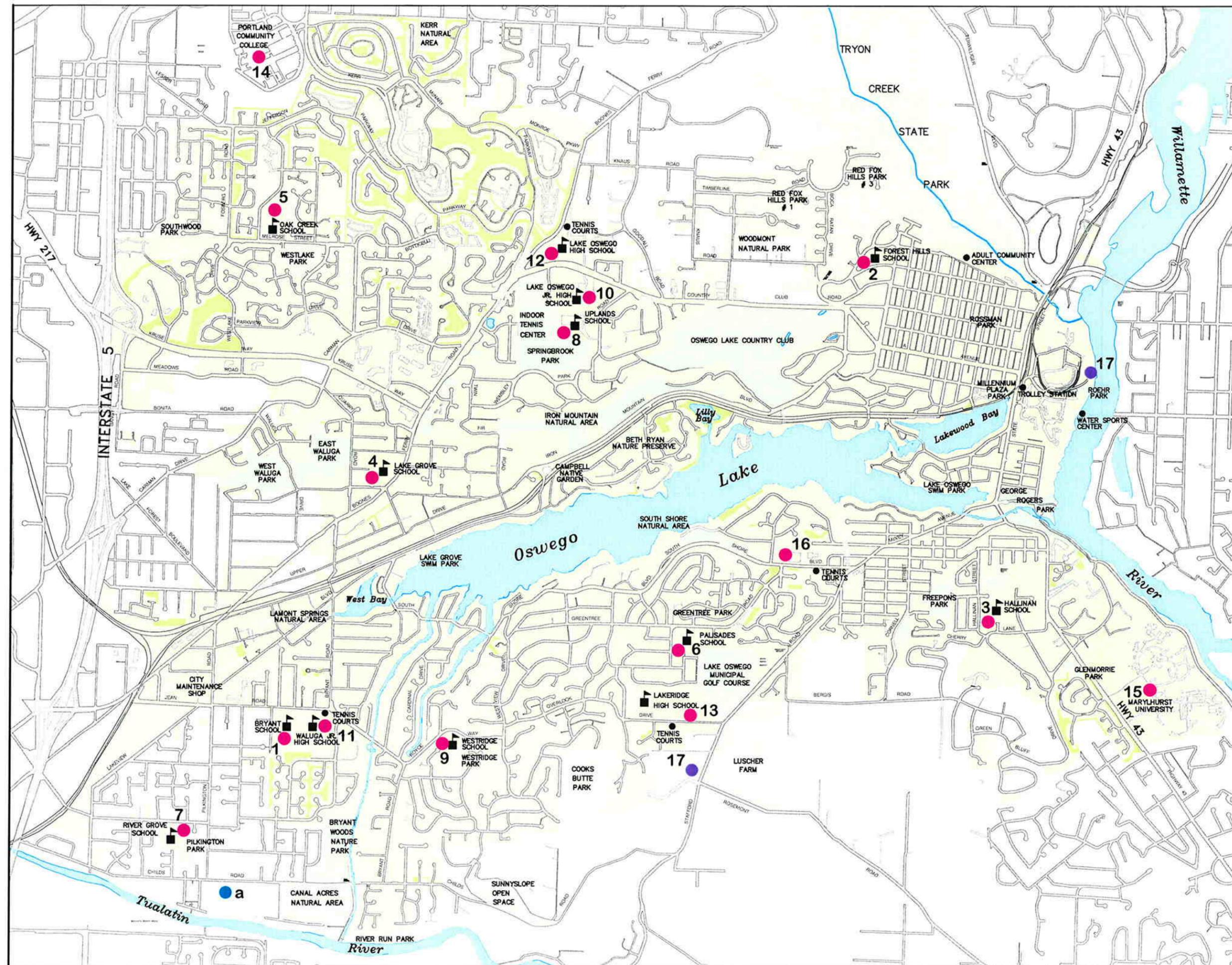
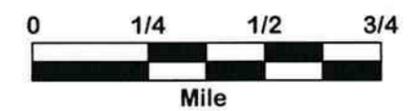
Existing Private Gymnasium
a. River's Edge Athletic Club

- Existing Public Gymnasiums
1. Bryant Elementary School
 2. Forest Hills Elementary School
 3. Hallinan Elementary School
 4. Lake Grove Elementary School
 5. Oak Creek Elementary School
 6. Palisades Elementary School
 7. River Grove Elementary School
 8. Uplands Elementary School
 9. Westridge Elementary School
 10. Lake Oswego Jr. High School
 11. Waluga Jr. High School
 12. Lake Oswego High School
 13. Lakeridge High School
 14. Portland Community College
 15. Marylhurst University
 16. National Guard Armory

Proposed Public Gymnasium
17. Lake Oswego Recreation Center



Geographic
Information
Services



Gymnasiums

Proposed (cont.)

The following sites may provide gymnasium facilities.

12	Lake Oswego HS	Update use agreement - at least practice gym, for public use during off-peak school hours.	0
13	Lakeridge HS	Update use agreement - at least practice gym, for public use during off-peak school hours.	0
14	Portland Community College	Obtain use agreement - at least practice gym, for public use during off-peak school hours.	0
15	Marylhurst College	Obtain use agreement - at least practice gym, for public use during off-peak school hours.	0
16	Lake Oswego Recreation Center	Develop day-use facility for adults with adjustable court, aerobics, instruction, and other uses: a) adjacent to Luscher Farm or b) Roehr Park addition.	10,000
Total proposed square footage			10,000

Physical conditioning facilities

Existing

The following sites provide physical conditioning facilities including equipment and aerobics areas.

1	Lake Oswego HS	Physical conditioning facility with weights and other training equipment, and wrestling mats - <i>not for public use.</i>	2,000
2	Lakeridge HS	Physical conditioning facility with weights and other training equipment, and wrestling mats - <i>not for public use.</i>	2,000
3	Mountain Park Racquet Club	Physical conditioning facility with weights and other training equipment - <i>for private club member use only.</i>	1,200
4	Mountain Park Recreation Center	Physical conditioning facility with weights and other training equipment - <i>for private club member use only.</i>	1,200
5	River's Edge Athletic Club	Physical conditioning facility with weights and other training equipment - <i>for private club member use only.</i>	2,000
6	St Vincent Health & Fitness	Physical conditioning facility with weights and other training equipment - <i>for private club member use only.</i>	2,000
7	Trail's End Fitness	Physical conditioning facility with weights and other training equipment - <i>for private club member use only.</i>	2,000
Total existing square footage			12,400

*Estimated Square Footage

Physical conditioning facilities

Proposed (cont.)

The following sites may provide physical conditioning facilities including equipment and aerobics areas.

8	Lake Oswego Recreation Center	Physical conditioning facility for adult day-use with weights and other training equipment including flex area for aerobics and class instruction: a) adjacent Luscher Farm or b) Roehr Park Addition.	4,000
Total proposed square footage			4,000



City of Lake Oswego Parks and Recreation Master Plan

Physical Conditioning Facilities

- Existing Private Facilities
- Existing Public Facilities
- Proposed Public Facilities

- Existing Private Facilities
- a. Mountain Park Racquet Club
 - b. Mountain Park Recreation Center
 - c. River's Edge Athletic Club
 - d. St. Vincent Health and Fitness
 - e. Trail's End Fitness

- Existing Public Facilities
- 1. Lake Oswego High School
 - 2. Lakeridge High School

- Proposed Public Facility
- 3. Lake Oswego Recreation Center



Geographic
Information
Services



Arts and crafts

Existing

The following sites provide a variety of arts and crafts instruction and activities areas.

1	Adult Community Center	Arts and crafts activity area for seniors citizen use.	2,000
2	Lakewood Center for the Arts	Arts and crafts classroom and programs for tots and elementary age children.	2,000
3	Bryant ES	Arts and crafts classroom - <i>not available public use.</i>	900
4	Forest Hills ES	Arts and crafts classroom - <i>not available public use.</i>	900
5	Hallinan ES	Arts and crafts classroom - <i>not available public use.</i>	900
6	Oak Creek ES	Arts and crafts classroom - <i>not available public use.</i>	900
7	Lake Grove ES	Arts and crafts classroom - <i>not available public use.</i>	900
8	Palisades ES	Arts and crafts classroom - <i>not available public use.</i>	900
9	River Grove ES	Arts and crafts classroom - <i>not available public use.</i>	900
10	Uplands ES	Arts and crafts classroom - <i>not available public use.</i>	900
11	Westridge ES	Arts and crafts classroom - <i>not available public use.</i>	900
12	Lake Oswego JH	Arts and crafts classroom - <i>not available public use.</i>	1,200
13	Waluga JH	Arts and crafts classroom - <i>not available public use.</i>	1,200
14	Lake Oswego HS	Arts and crafts classroom - <i>not available public use.</i>	2,000
15	Lakeridge HS	Arts and crafts classroom - <i>not available public use.</i>	2,000
Total existing square footage			18,500

* Estimated square footage.

Proposed

The following site may provide arts and crafts instruction and activities areas.

16	Lake Oswego Community Center	Develop arts classroom and studio for adult day-use: a) in Library, b) adjacent Luscher Farm, or c) Roehr Park Addn.	4,000
Total proposed square footage			4,000



**City of Lake Oswego
Parks and Recreation
Master Plan**

**Arts and Crafts
Facilities**

- Existing Private Facilities
- Existing Public Facilities
- Proposed Public Facilities

Existing Private Arts and Crafts Facility
a. Lakewood Center for the Arts

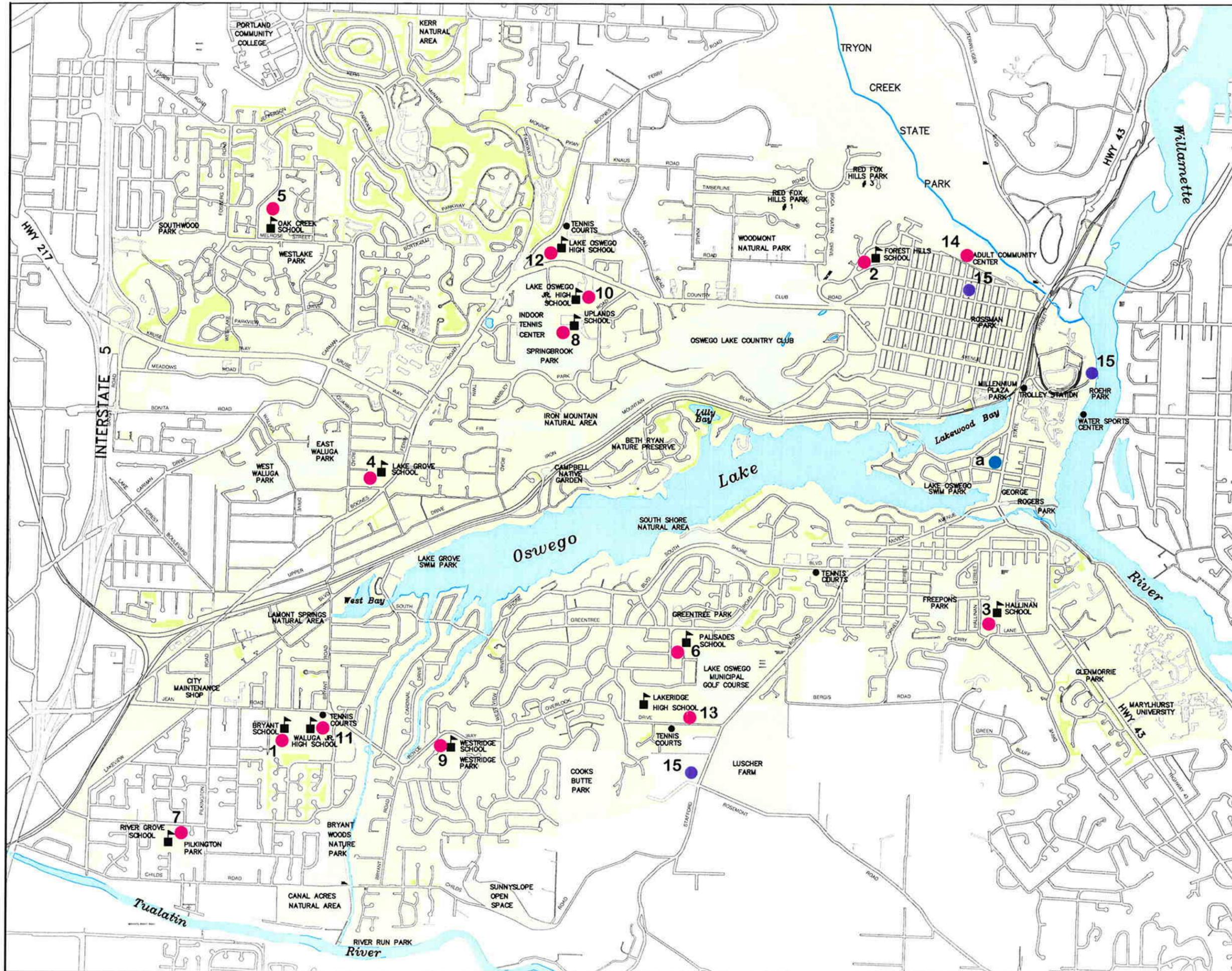
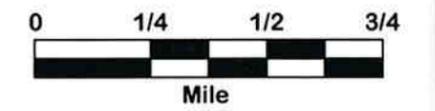
Existing Public Arts and Crafts Facilities

1. Bryant Elementary School
2. Forest Hills Elementary School
3. Hallinan Elementary School
4. Lake Grove Elementary School
5. Oak Creek Elementary School
6. Palisades Elementary School
7. River Grove Elementary School
8. Uplands Elementary School
9. Westridge Elementary School
10. Lake Oswego Jr. High School
11. Waluga Jr. High School
12. Lake Oswego High School
13. Lakeridge High School
14. Adult Community Center

Proposed Public Arts and Crafts Facility
15. Lake Oswego Recreation Center



Geographic
Information
Services



Classroom, meeting, and small training rooms

Existing

The following sites provide flexible meeting and instruction spaces.

1	Lake Oswego City Hall	Conference room available for public use after hours on scheduled basis.	400
2	Adult Community Center	Meeting and activity room available on scheduled basis.	500
3	Municipal Golf Course	Conference room available on scheduled basis.	800
4	Lake Oswego Library	Conference room available on scheduled basis.	200
5	Lake Grove Fire Station	Training/conference room available on scheduled basis.	600
6	Lakewood Center for the Arts	Basement meeting facility with coffee shop available for public use on scheduled basis.	1,200
7	Heritage House	Conference room available for public use on scheduled basis.	200
8	Bryant ES	Classrooms available after school hours for public use on scheduled basis.	900
9	Forest Hills ES	Classrooms available after school hours for public use on scheduled basis.	900
10	Hallinan ES	Classrooms available after school hours for public use on scheduled basis.	900
11	Oak Creek ES	Classrooms available after school hours for public use on scheduled basis.	900
12	Lake Grove ES	Classrooms available after school hours for public use on scheduled basis.	900
13	Palisades ES	Classrooms available after school hours for public use on scheduled basis.	900
14	River Grove ES	Classrooms available after school hours for public use on scheduled basis.	900
15	Uplands ES	Classrooms available after school hours for public use on scheduled basis.	900
16	Westridge ES	Classrooms available after school hours for public use on scheduled basis.	900
17	Lake Oswego JH	Classrooms available after school hours for public use on scheduled basis.	1,200
18	Waluga JH	Classrooms available after school hours for public use on scheduled basis.	1,200
19	Lake Oswego HS	Classrooms available after school hours for public use on scheduled basis.	1,200
20	Lakeridge HS	Classrooms available after school hours for public use on scheduled basis.	1,200
21	US Bank	Board conference room available after hours for public use on scheduled basis.	400
22	Marylhurst College	Classrooms and meeting rooms available after hours on a scheduled basis.	1,200
23	Christ Episcopal Church	Meeting rooms and other facilities on a scheduled basis.	600

Classroom, meeting, and small training rooms

Existing (cont.)

24	Hope Community Church	Meeting rooms and other facilities on a scheduled basis.	600
25	Lake Bible Church	Meeting room on a scheduled basis.	600
26	Lake Grove Christian Church	Meeting room, kitchen, and classrooms on a scheduled basis.	1,200
27	Lake Oswego United Methodist Church	Meeting room on a scheduled basis.	600
28	Mountain Park Church	Meeting room and other facilities available to church members.	600
29	Our Lady of the Lake	Meeting room, parish, and other facilities on a scheduled basis.	1,200
30	Our Savior's Lutheran Church	Meeting room and other facilities.	600
31	Crowne Plaza Hotel	Complex of 5 meeting rooms available on a rental basis.	3,000
32	Durham Inn & Suites	1 large and 1 small meeting room available on a rental basis.	1,400
33	Fairfield Inn by Marriot	2 meeting room facilities available on a rental basis.	1,200
34	Phoenix Inn	2 meeting room facilities available on a rental basis.	1,200
35	Residence Inn	1 small meeting room facility available on a rental basis.	600

Total existing square footage

31,600

* Estimated square footage.

Proposed

The following sites may provide flexible meeting and instruction spaces.

36	Lake Oswego Community Center	Develop meeting complex for day-use activities: in a) old Library, b) adjacent Luscher Farm, or c) Roehr Park Addn.	2,000
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Total proposed square footage

2,000



City of Lake Oswego Parks and Recreation Master Plan

Meeting and Classroom Facilities

- Existing Private Court
- Existing Public Court
- Proposed Public Court

Existing Private Meeting and Classroom Facilities

- a. Lakewood Center for the Arts
- b. Oswego Heritage House
- c. US Bank
- d. Marylhurst University
- e. Christ Episcopal Church
- f. Hope Community Church
- g. Lake Bible Church
- h. Lake Grove Christian Church
- i. Lake Oswego United Methodist Church
- j. Mountain Park Church
- k. Our Lady of the Lake
- l. Our Savior's Lutheran Church
- m. Crowne Plaza Hotel
- n. Durham Inn and Suites
- o. Fairfield Inn by Marriott
- p. Phoenix Inn
- q. Residence Inn

Existing Public Meeting and Classroom Facilities

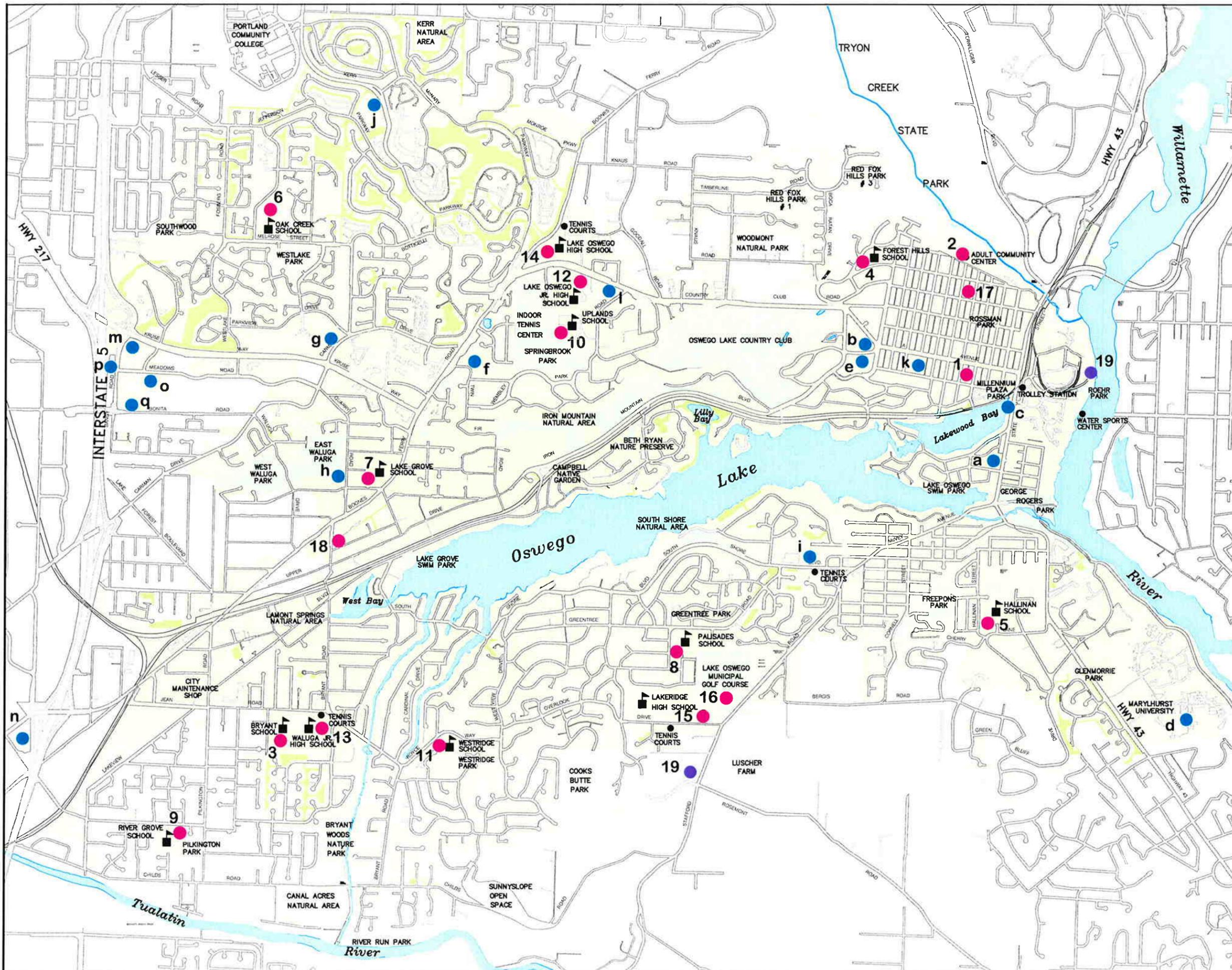
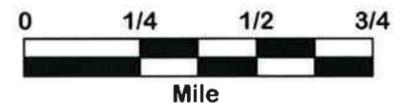
- 1. Lake Oswego City Hall
- 2. Adult Community Center
- 3. Bryant Elementary School
- 4. Forest Hills Elementary School
- 5. Hallinan Elementary School
- 6. Oak Creek Elementary School
- 7. Lake Grove Elementary School
- 8. Palisades Elementary School
- 9. River Grove Elementary School
- 10. Uplands Elementary School
- 11. Westridge Elementary School
- 12. Lake Oswego Jr. High School
- 13. Waluga Jr. High School
- 14. Lake Oswego High School
- 15. Lakeridge High School
- 16. Municipal Golf Course
- 17. Lake Oswego Public Library
- 18. Lake Grove Fire Station

Proposed Public Meeting and Classroom Facility

- 19. Lake Oswego Recreation Center



Geographic
Information
Services



Auditoriums, stages, and large meeting facilities

Existing

The following sites provide large meeting and assembly performance spaces.

1	Lake Oswego City Hall	Council chamber and hearing room with platform, lighting, and sound available after hours on a scheduled basis.	3,000
2	Adult Community Center	Large multipurpose meeting and activity room with kitchen available on scheduled basis.	2,000
3	Tryon Creek State Park	Auditorium with screen, podium, lighting, sound, and seating available on a scheduled basis.	1,200
4	Lakewood Center for the Arts	Performance theatre with stage, lighting, sound; rehearsal halls, dressing rooms, scenery development; and basement meeting facility with coffee shop for public use on scheduled basis.	10,000
5	Lake Oswego HS	Large auditorium with stage, lighting, and sound available after hours for public use on special basis.	2,000
6	Lakeridge HS	Large auditorium with stage, lighting, and sound available after hours for public use on special basis.	2,000
7	Portland Community College	Large auditorium with stage, lighting, and sound available after hours for public use on special basis.	2,000
8	Marylhurst College	Large auditorium with stage, lighting, and sound available after hours for public use on special basis.	2,000
9	Lake Grove Christian Church	Meeting room, kitchen, and classrooms on a scheduled basis.	1,200
10	Our Lady of the Lake	Large meeting room, parish, and other facilities on a scheduled basis.	2,000
11	Crowne Plaza Hotel	Complex of consolidated meeting rooms - available on a rental basis.	3,000
Total existing square footage			30,400

* Estimated square footage.

Proposed

The following site may provide large meeting and assembly performance spaces.

12	Lake Oswego Community Center	Develop large meeting hall with catering kitchen, divisible rooms, lecture podiums, and outdoor terraces for special events and presentations: a) in the old Library, b) adjacent Luscher Farm, or c) Roehr Park Addn.	4,000
Total proposed square footage			4,000



City of Lake Oswego Parks and Recreation Master Plan

Auditorium and Large Meeting Facilities

- Existing Private Facilities
- Existing Public Facilities
- Proposed Public Facilities

Existing Private Auditorium and Large Meeting Facilities

- a. Lakewood Center for the Arts
- b. Marylhurst University
- c. Lake Grove Christian Church
- d. Our Lady of the Lake
- e. Crowne Plaza Hotel

Existing Public Auditorium and Large Meeting Facilities

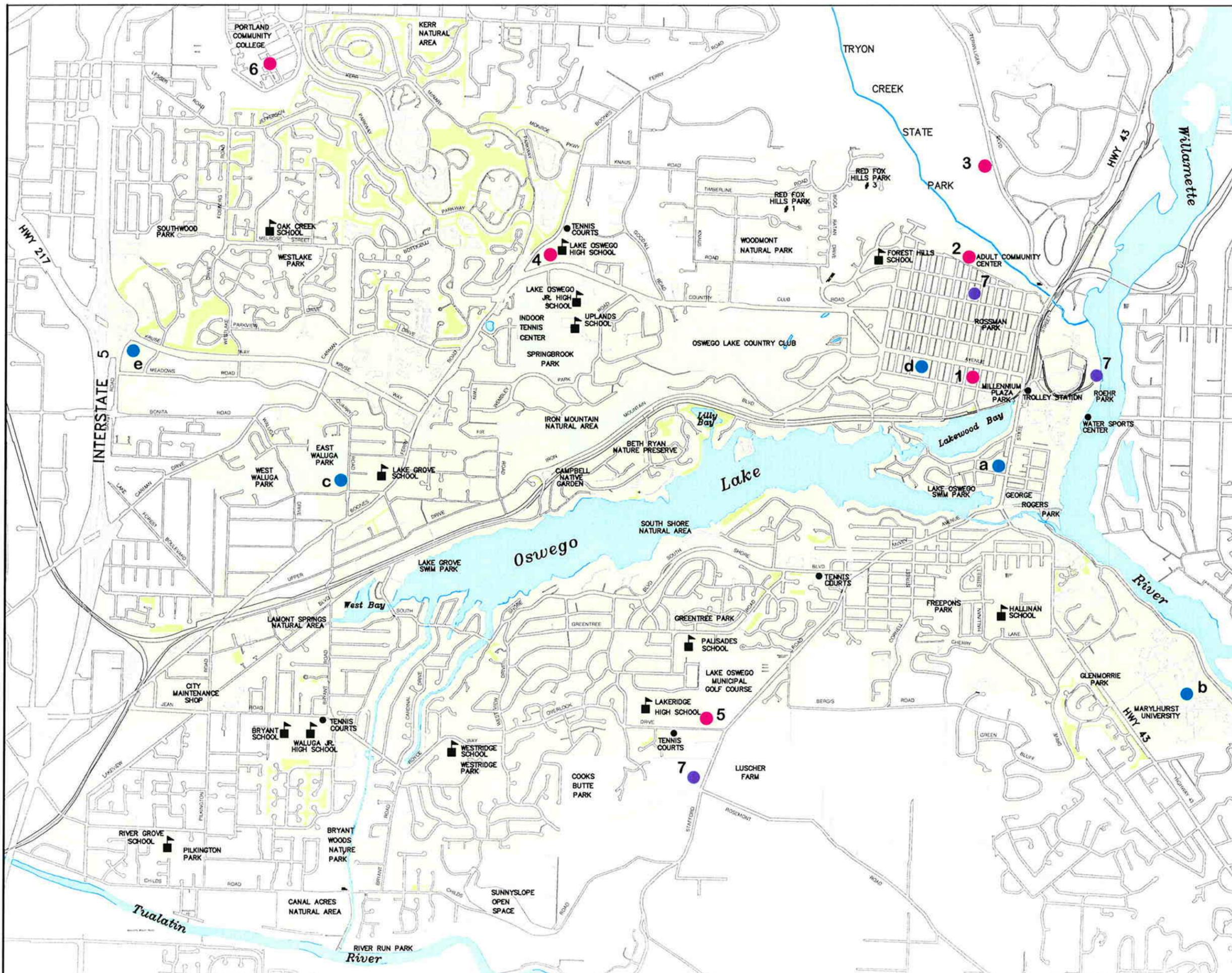
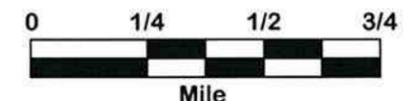
- 1. Lake Oswego City Hall
- 2. Adult Community Center
- 3. Tryon Creek State Park
- 4. Lake Oswego High School
- 5. Lakeridge High School
- 6. Portland Community College

Proposed Public Arts and Crafts Facility

- 7. Lake Oswego Recreation Center



Geographic
Information
Services



Kitchen and dining facilities

Existing

The following facilities, other than school cafeterias, providing dining or food preparation of use by the public.

1	Adult Community Center	Large multipurpose meeting and activity room with kitchen available on scheduled basis.	800
2	Lakewood Center for the Arts	Basement meeting facility with coffee shop available for public use on scheduled basis.	600
3	Lake Grove Christian Church	Meeting room, kitchen, and classrooms on a scheduled basis.	600
Total existing square footage			2,000

* Estimated square footage.

Proposed

The following site may provide food preparation and service facilities.

4	Lake Oswego Community Center	Develop catering kitchen to provide limited food service for special events: a) in the old Library, b) adjacent Luscher Farm, or c) Roehr Park Addn.	800
Total proposed square footage			800



City of Lake Oswego Parks and Recreation Master Plan

Kitchen Facilities

- Existing Private Facilities
- Existing Public Facilities
- Proposed Public Facilities

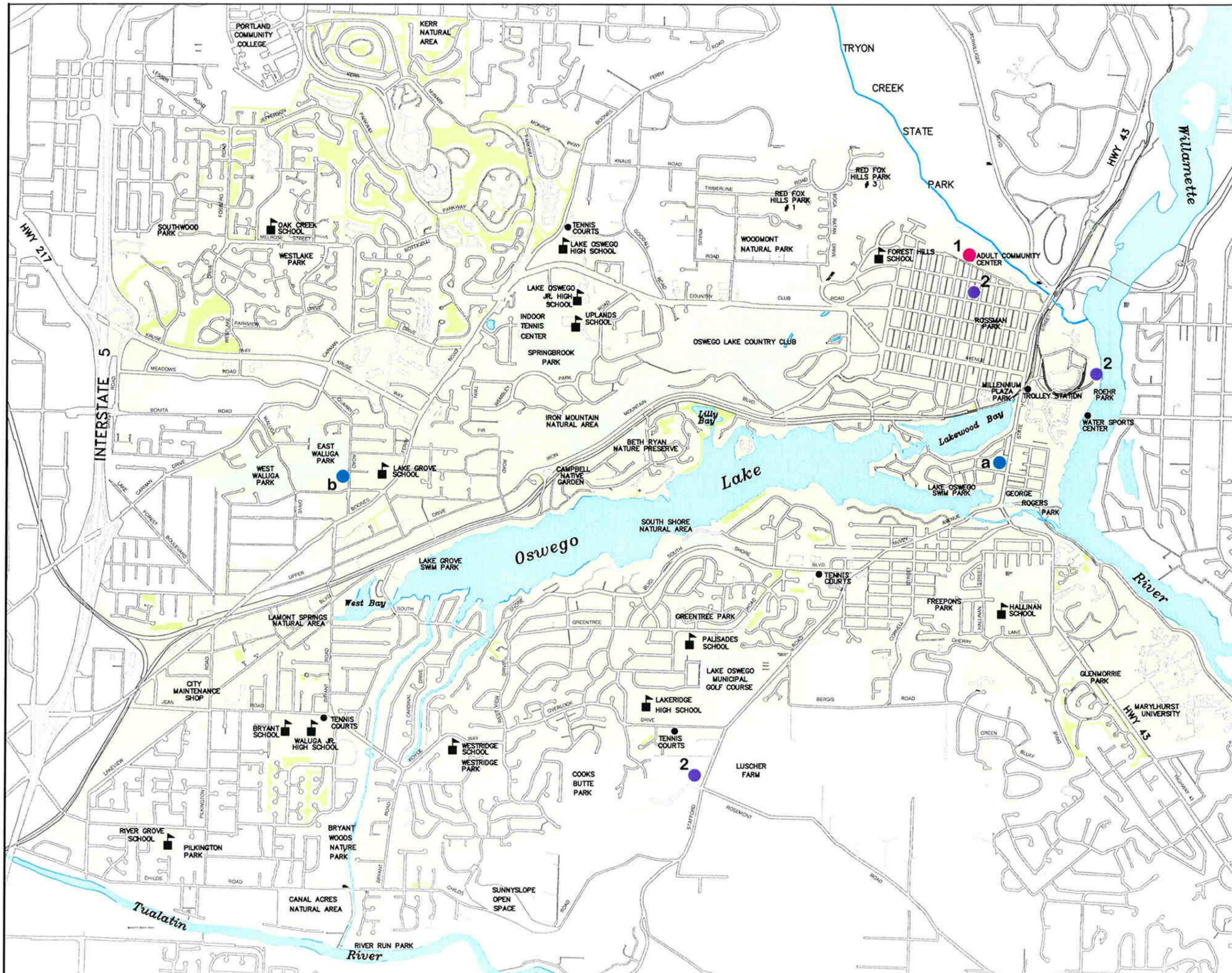
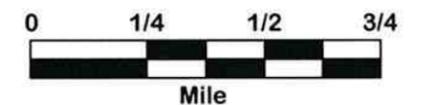
Existing Private Kitchen Facilities
a. Lakewood Center for the Arts
b. Lake Grove Christian Church

Existing Public Kitchen Facilities
1. Adult Community Center

Proposed Public Kitchen Facility
2. Lake Oswego Recreation Center



Geographic
Information
Services



Child center - daycare and pre-school

Existing

The following facilities provide childcare and preschool age nursery services.

1	Lake Oswego Indoor Park	Commercial daycare facility and program provided on a fee basis.	1,200
2	Children's Garden Learning Center	Commercial daycare facility and program provided on a fee basis.	1,200
3	Children's Hour Academy	Commercial daycare facility and program provided on a fee basis.	1,200
4	Danalee's Children Center	Commercial daycare facility and program provided on a fee basis.	1,200
5	Maple St Kids Preschool/Daycare	Commercial daycare facility and program provided on a fee basis.	1,200
6	Our Place Childcare	Commercial daycare facility and program provided on a fee basis.	1,200
7	Rocking Horse Day School	Commercial daycare facility and program provided on a fee basis.	1,200
8	Touchstone	Commercial daycare facility and program provided on a fee basis.	1,200
9	Mountain Park Town Center	Commercial daycare facility and program provided on a fee basis.	1,200
10	Christ Episcopal Church	Preschool available to church members and the public on a fee basis.	1,200
11	Hope Community Church	Preschool available to church members and the public on a fee basis.	1,200
12	Lake Bible Church	Preschool available to church members and the public on a fee basis.	1,200
13	Lake Grove Presbyterian Church	Preschool available to church members and the public on a fee basis.	1,200
14	Lake Oswego United Methodist Church	Preschool available to church members and the public on a fee basis.	1,200
15	Mountain Park Church	Preschool available to church members and the public on a fee basis.	1,200
16	Our Lady of the Lake	Preschool available to church members and the public on a fee basis.	1,200
17	Triumphant King Lutheran	Preschool available to church members and the public on a fee basis.	1,200
Total proposed square footage			20,400

* Estimated square footage.

Proposed

The following site may provide a variety of childcare spaces.

18	Lake Oswego Community Center	Develop childcare facility: a) in old Library, b) adjacent Luscher Farm, or c) Roehr Park Addn.	1,200
Total proposed square footage			1,200



City of Lake Oswego Parks and Recreation Master Plan

Childcare Center - Daycare and Pre-school

- Existing Private Facilities
- Proposed Public Facilities

Existing Private Daycare / Pre-school

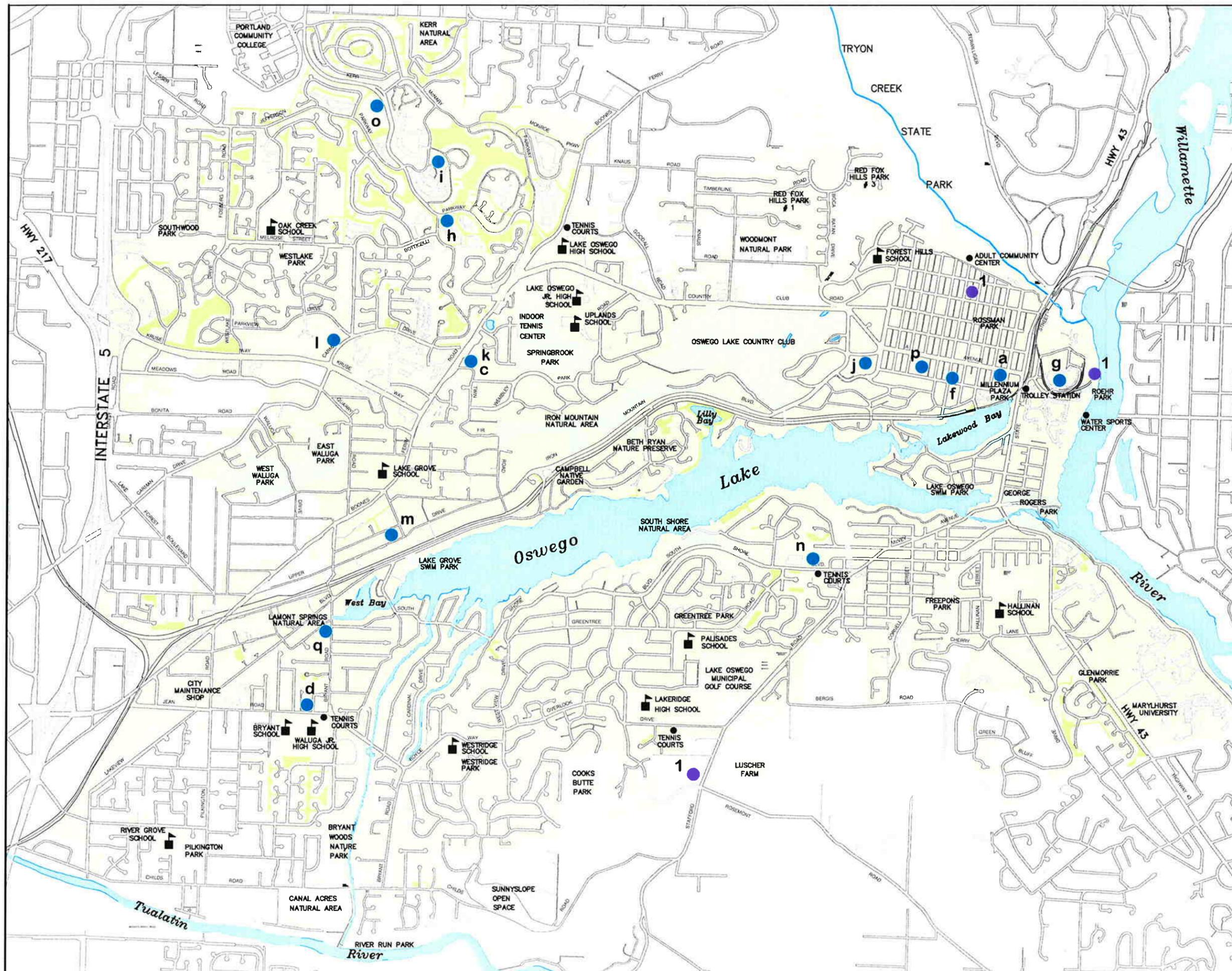
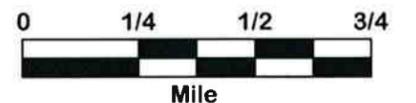
- a. Lake Oswego Indoor Park
- b. Children's Garden Learning Center
- c. Children's Hour Academy
- d. Danalee's Children Center
- e. Maple Street Kids Pre-school / Childcare
- f. Our Place Child Care
- g. Rocking Horse Day School
- h. Touchstone School
- i. Mountain Park Play School
- j. Christ Episcopal Church
- k. Hope Community Church
- l. Lake Bible Church
- m. Lake Grove Presbyterian Church
- n. Lake Oswego United Methodist
- o. Mountain Park Church
- p. Our Lady of the Lake
- q. Triumphant King Lutheran

Proposed Daycare Facility

- 1. Lake Oswego Recreation Center



Geographic
Information
Services



Child center - before/after-school

Existing

The following sites provide a variety of before and after-school programs.

1	LOSD Community School	Lake Oswego School District operates before and after-school program services in every elementary (9) and junior high (2) schools in the city.	Na
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Total existing square footage Na

Teen center

Existing

The following facilities provide programs for pre-teen and teenage kids.

1	Lake Oswego School District Community School	Pre- and after-school programs conducted in school classrooms, gyms, and fields during school year and vacations.	Na
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Total existing square footage Na

* Estimated square footage.

Proposed

The following site may provide a teen center space.

3	Lake Oswego Community Center	Develop teen center or activity facility and program: a) in old Library, b) adjacent Luscher Farm, or Roehr Park Addn. Coordinate services with LOSD's Community School programs.	2,000
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Total proposed square footage 2,000

Senior center

Existing

The following facilities provide programs for pre-teen and teenage kids.

2	Adult Community Center	Besides meeting rooms, kitchen, and arts and crafts previously listed - facility also includes library, lounge area, and offices.	8,000
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Total existing square footage 8,000

* Estimated square footage.

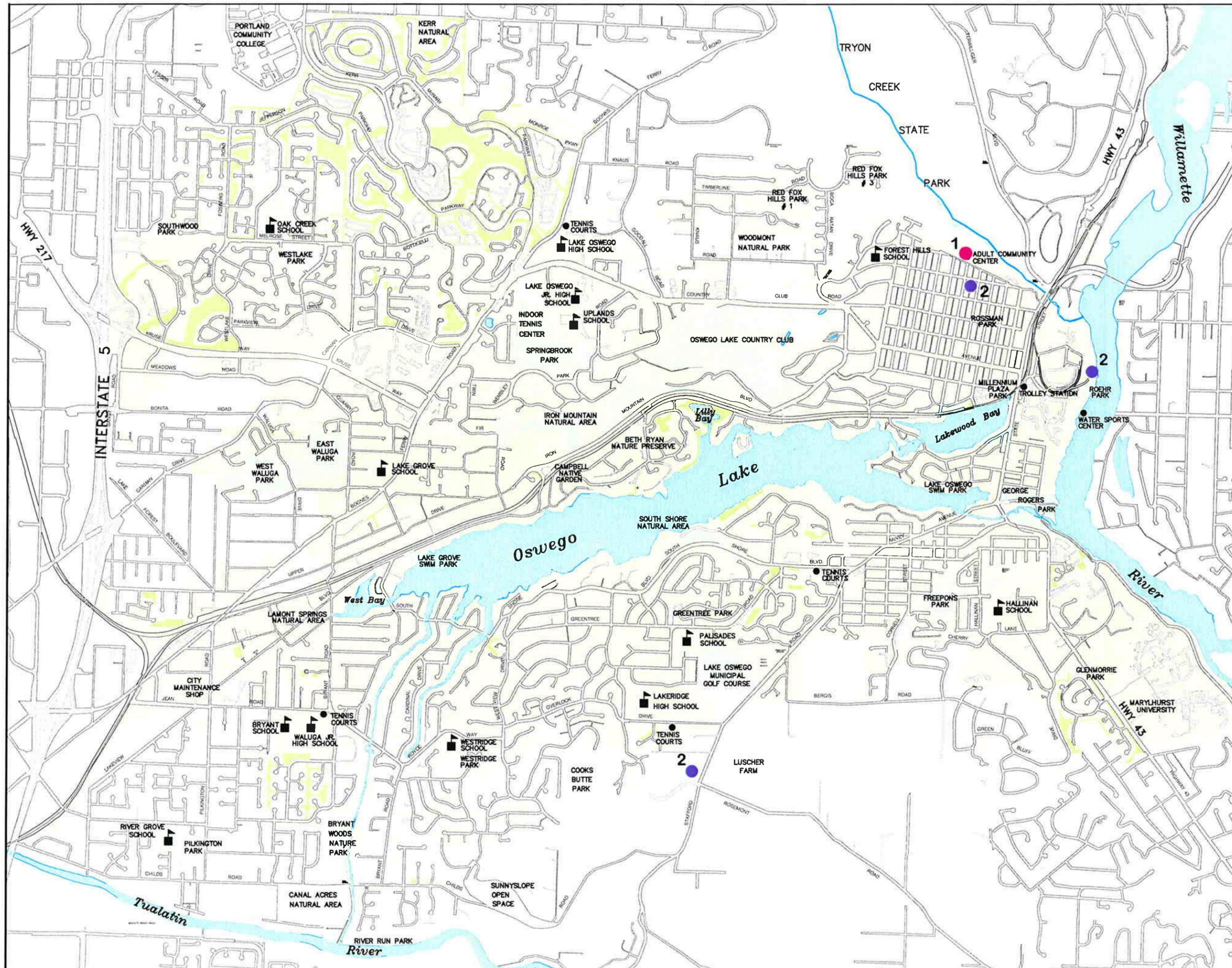


City of Lake Oswego Parks and Recreation Master Plan

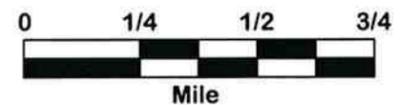
Teen and Senior Facilities

- Existing Senior Center
- Proposed Teen Center

- Existing Senior Center
1. Lake Oswego Adult Community Center
- Proposed Teen Center
2. Lake Oswego Recreation Center



Geographic
Information
Services



7.14 Special use facilities

Facilities may be acquired or developed to provide special activities for the general population on a limited or special event occasion and/or for special interest populations at appropriate sites throughout Lake Oswego. Special use facilities may include historical or nature interpretive centers, marina and boating activities, golf courses and driving ranges, and similar special interest services.

Special use facilities may be independent properties or portions of other sites that include trail corridors, resource activities, athletic facilities, indoor recreation centers or other public facilities.

Special use facilities may be sited on other publicly-owned lands or under lease agreements with private land owners or organizations or on purchased properties.

Vision

As described, the special use facilities vision may:

- provide specialized facilities for the general population for a special event or activity,
- for specialized user group interests that are able and maying to pay user fees and charges or donate labor, operation, and other services,
- in a manner that is cost effective, and
- equitable in regards to those activities that accommodate the general population.

Amphitheaters

Existing

The following sites provide outdoor amphitheater or presentation facilities.

1	Roehr Park	Structured seating, platform, dock, landing, and other presentation amenities overlooking the Willamette River adjacent to the Water Sports Center.	3,000
2	Tryon Creek State Natural Area	Structured seating and presentation area for nature and park activities.	1,200
Total existing square footage			4,200

* Estimated square footage.

Proposed

The following site may provide outdoor presentation facilities.

5	Luscher Farm	Develop a structured seating and presentation area for environmental, historical, and farm-related activities overlooking the surrounding lands. Include development of a potential farmer's market exhibit and vendor space.	3,000
Total proposed square footage			3,000

Environmental interpretive facilities

Existing

The following sites provide nature and/or natural history interpretive materials and exhibits.

2	Tryon Creek State Natural Area	Nature Center provides park information, educational exhibits, and programs in the center and nearby Glenn Jackson Shelter.	2,000
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Total existing square footage

* Estimated square footage.

Proposed

The following may provide nature and/or natural history, and agricultural interpretive materials and exhibits.

5	Luscher Farm	Develop interpretive exhibits and demonstration projects illustrating natural features, past and present agricultural practices and procedures using the barn, chicken coop, hog barn, and other outbuildings.	5,000
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Total existing square footage

5,000

* Estimated square footage.

Museums

Existing

The following site provides historical and cultural displays, educational materials, and exhibits.

3	George Rogers Iron Smelter	Historical exhibits and interpretive facilities located at the smelter site in George Rogers Park.	Na
4	Oswego Heritage House	Historical exhibits and interpretive facilities housed in a landmark residential building located at 10th Street and A Avenue.	3,000

Total existing square footage

3,000*

* Estimated square footage.

Proposed

The following site may provide historical and cultural displays, educational materials, and exhibits.

5	Luscher Farm	Develop interpretive exhibits with photos, furniture, clothing, tools, equipment, and other artifacts illustrating the historical development of the city and farm.	2,400
6	Willamette Shore Trolley	Jointly develop an interpretive exhibit of riverboat, trolley, and iron ore eras in Roehr Park Addition with Oswego Heritage Council and Oregon Electric Railway Historical Society (OREHS).	5,000

Total proposed square footage

7,400



City of Lake Oswego Parks and Recreation Master Plan

Amphitheater, Environmental and Museum Facilities

- Existing Private Facilities
- Existing Public Facilities
- Proposed Public Facilities

Existing Amphitheaters

1. Roehr Park
2. Tryon Creek State Park

Existing Environmental Centers

2. Tryon Creek State Park

Existing Museums

3. George Rogers Iron Smelter
4. Oswego Heritage House

Proposed Amphitheater

5. Luscher Farm

Proposed Environmental Center

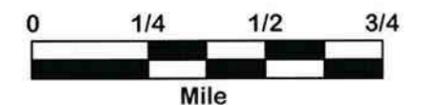
5. Luscher Farm

Proposed Museum

5. Luscher Farm
6. Willamette Shore Trolley



Geographic
Information
Services



Golf courses

Existing

The following sites provide golf course facilities.

1	Municipal Golf Course	Public facility located on Stafford Road with an 18 hole, par 61, 2,725 yard course with driving range, small pro shop, and recently remodeled clubhouse.	18
2	Oswego Lake Country Club	Private membership facility available to general public for a fee with an 18 hole par 3+ course, driving range, clubhouse, swimming pool, and 2 tennis courts. <i>For private club members only.</i>	18
Total existing holes			36



City of Lake Oswego Parks and Recreation Master Plan

Golf Courses

- Existing Public Golf Course
- Existing Private Golf Course

Existing Driving Ranges

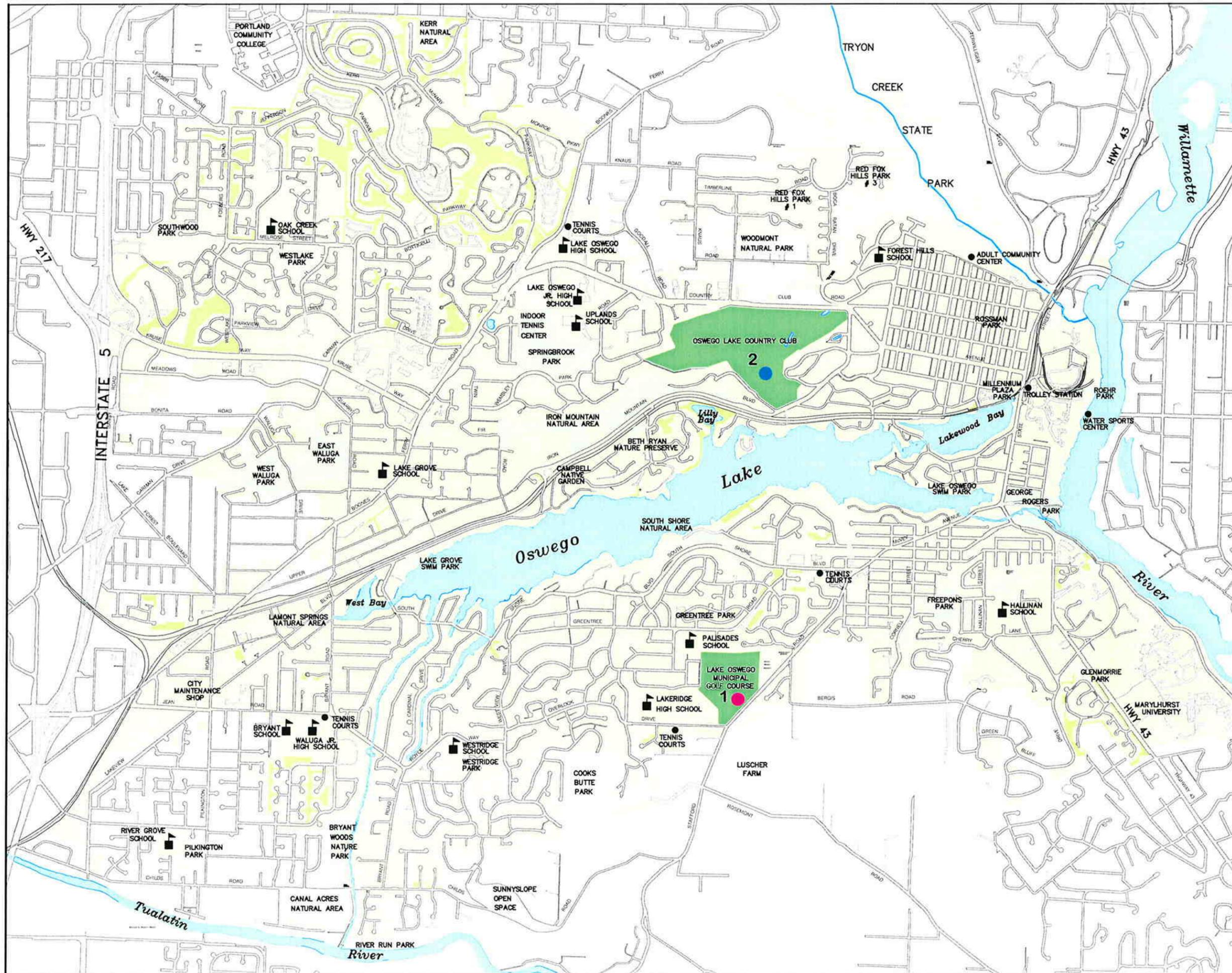
1. Lake Oswego Golf Course
2. Oswego Lake Country Course

Existing Golf Courses

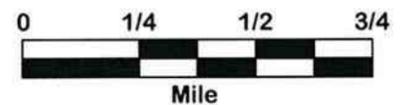
1. Lake Oswego Golf Course
2. Oswego Lake Country Course

Existing Clubhouse Facilities

1. Lake Oswego Golf Course
2. Oswego Lake Country Course



Geographic
Information
Services



7.15 Support facilities

Facilities may be developed to provide maintenance yard, plant nursery, and administrative activities necessary to support park, recreation, and open space programs and facilities.

Support facilities may be independent properties or portions of other sites that include other administrative offices, maintenance yards and shops, as well as trail corridors, resource activities, athletic facilities, indoor recreation centers or other park and recreation facilities.

Vision

As described, the support facilities vision may:

- provide facilities necessary to service park, recreation, and open space programs and activities for the general population, and
- in a manner that is cost effective.

Operations facilities

Existing

The following sites provide administrative offices, maintenance shops, and storage areas.

1	Lake Oswego City Hall	Staff offices and public counter located on ground floor of City Hall.	4,000
2	City Maintenance Shop	Shop, storage, and supply portions of public works yard located in City Maintenance Shop on Jean Road.	6,000
3	Municipal Golf Course	Staff office, shop, storage, and nursery located in golf course site on Stafford Road.	4,000

Total existing square footage 14,000

* Estimated square footage

Proposed

The following site may provide maintenance shops and caretaker buildings.

4	Luscher Farm	Develop staff office, shop, storage, and nursery facilities to support farmhouse and barn activities.	4,000
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Total proposed square footage 4,000



City of Lake Oswego Parks and Recreation Master Plan

Supporting Facilities

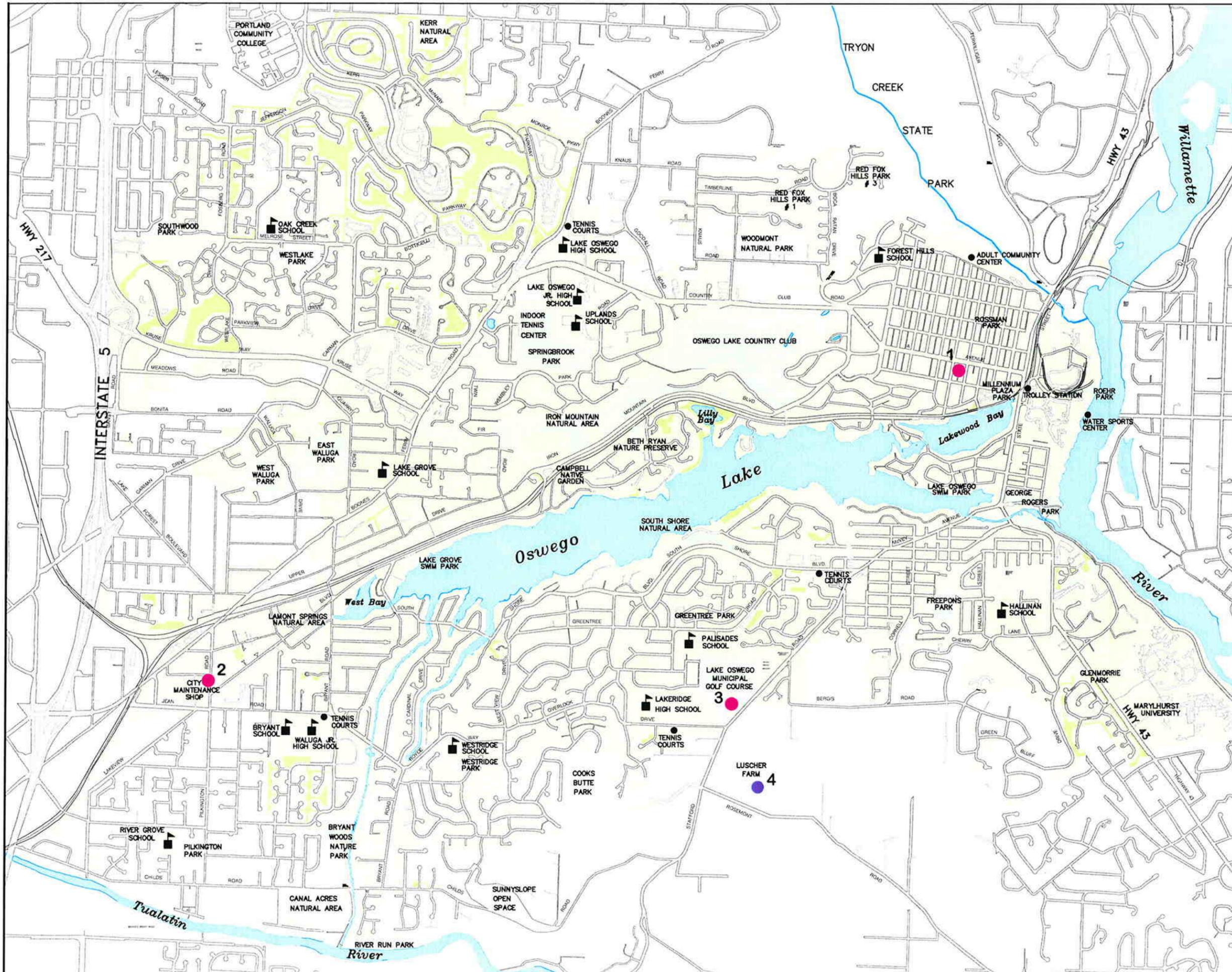
- Existing Public Facilities
- Proposed Public Facilities

Existing Office, Shops, and Yard

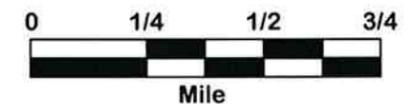
1. Lake Oswego City Hall
2. City Maintenance Shops
3. Municipal Golf Course

Proposed Shops and Nursery

4. Luscher Farm



Geographic
Information
Services



Public restrooms

Existing

The following sites provide permanent restroom facilities for park users.

1	George Rogers Park	Restroom building located next to playground, picnic area, and athletic fields.	8
2	Millennium Plaza Park	Specially designed building with picnic kitchen, equipment storage, and fixtures located adjacent to water feature and shelter.	10
3	Roehr Park	Specially designed restroom facilities located under amphitheater and river overlook.	8
4	East Waluga Park	Restroom building located next to playground, picnic facilities and athletic fields.	6
5	West Waluga Park	Restroom building located next to playground, grassy play area, and picnic facilities	6
6	Westlake Park	Restroom building located next to playground, picnic tables, and athletic fields.	6
8	Tryon Creek State Natural Area	Restrooms located in Nature Center.	8
9	Lake Grove Swim Park	Restroom building located next to playground, picnic tables, and swimming beach.	8
Total existing fixtures			60

Proposed

The following sites may provide permanent restroom facilities for park users.

11	Springbrook Park	Develop restroom facilities next to proposed playground and picnic area to be located near athletic fields.	8
12	Pilkington Park	Develop restroom building next to playground and picnic tables.	6
13	Iron Mountain Park	Develop restroom building next to picnic tables and for rail trail trailhead.	6
14	River Run Park	Develop restroom building next to picnic tables and waterfront access area.	6
15	Freepons Park	Develop restroom building next to playground and picnic tables.	6
16	Luscher Farm	Develop restroom buildings in north, east, and farmhouse activity areas.	24
17	Roehr Park Addn	Develop restroom building next to proposed picnic tables, grassy play area, and waterfront activities area.	8
Total proposed fixtures			64



City of Lake Oswego

Parks and Recreation Master Plan

Restroom Facilities

- Existing public facilities
- Existing private facilities
- Proposed public facilities

Existing Restrooms

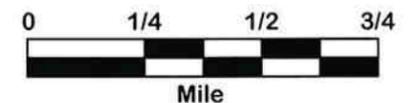
1. George Rogers Park
2. Millennium Park
3. Roehr Park
4. East Waluga Park
5. West Waluga Park
6. Westlake Park
7. Water Sports Center
8. Tryon Creek State Park
9. Lake Grove Swim Park
10. Lake Oswego Swim Park

Proposed Restrooms

11. Springbrook Park
12. Pilkington Park
13. Iron Mountain Park
14. River Run Park
15. Freepsons Park
16. Luscher Farm
17. Roehr Park Addition



Geographic Information Services





Chapter 8: Strategies

Chapter 8: Strategies

Following is a brief accounting of strategies that can satisfy Lake Oswego's park and recreation needs along with a discussion of the philosophical issues involved.

8.1 Alternative service roles

Lake Oswego could provide park and recreation facilities and services under one of the following alternative service policies:

Alternative 1: Comprehensive role

Lake Oswego could provide a public facility and program for every type of park and recreation activity that could interest city and surrounding area residents. A comprehensive service approach, however, would have a number of drawbacks:

- feasibility - there may not be a sufficient number of resident users within Lake Oswego city limits to economically support the development and operation of some specialized types of park and recreation facilities, such as major indoor athletic and aquatic facilities, youth and teen centers, performing arts facilities, and the like.
- duplication - other public and private agencies have already successfully developed some appropriate, publicly accessible facilities, such as indoor swimming pools, athletic field stadiums, major classroom and assembly facilities - and special environmental features such as marinas. Lake Oswego could spend considerable monies providing a facility that would duplicate and dilute the need for an existing facility service.
- capacity - Lake Oswego may not have the financial resources to develop and operate a comprehensive list of facilities and services even if city residents elected to do so.

Alternative 2: Specialized role

Lake Oswego could pursue a limited, focused approach to park and recreation services such as providing developments with specific types of facilities (picnicking, playgrounds, and play areas) that may be used by residents on a neighborhood basis as opposed to providing sites that may be used by residents of the surrounding regional area.

A narrow or specialized approach to park and recreation service, however, would have the following drawbacks:

- balance - a quality park and recreation system should provide a choice of activities allowing for weather, season, and individual preferences. A narrow, focused inventory of facilities on a neighborhood or even site specific basis could become sterile or uninteresting. Residents would also be shortchanged if no other agency

assumed responsibility for providing for the other activity interests that Lake Oswego decided not to support.

- representation - as the most comprehensive level of government, local residents depend on Lake Oswego to represent their interests with other governmental agencies. Lake Oswego has a responsibility to see that other agencies successfully provide facilities within the local area in the event Lake Oswego does not, and to offset the impact of regional park and recreation activity demands on local facilities.
- opportunity - Lake Oswego may be aware or in a position to capitalize upon a land or facility opportunity when another agency may not be able to respond in time or alone. Examples include the use of utility corridors for trails, the acquisition of surplus or defunct facilities, and sometimes by project specific mitigation through the subdivision and/or environmental impact review process.

Alternative 3: Strategic role - Recommended Action

Lake Oswego could perform a strategic role providing:

- park and recreation facilities and programs that no other agency can or is willing to provide;
- acting as a coordinator of local interests where facilities are provided by many other agencies; and
- acting as a facilitator where unique acquisition or development opportunities may occur that could be implemented or operated by other agencies.

A strategic approach to services will require the following:

- involvement - Lake Oswego must coordinate planning and development efforts with other agencies such as the school district, county, state, federal, and other public and private agencies to be aware of and have impact on these and other agency local programs and efforts,
- planning - Lake Oswego must continually analyze long range needs and conditions for residents within city limits and the urban growth boundary in order to recognize and be prepared to act on opportunities,
- priorities - Lake Oswego must decide policies and outline actions to be undertaken should opportunities allow strategic developments,
- commitment - Lake Oswego must provide appropriate staff expertise and budgets with which to implement strategic planning programs and projects when no other agency can or is able within a strategic time schedule.

8.2 Role recommendations by function

This plan recommends Lake Oswego pursue a *modified strategic approach* to services where Lake Oswego assumes responsibility for those functions no other agency or organization can provide, and helps coordinate or support those functions and activities that have other viable sponsors. Lake Oswego would be the coordinator or planner of first resort, and the provider of last resort. For example:

Coordinating activities

Lake Oswego should provide central information and coordination services for park and recreation activities within the Lake Oswego urban growth boundary since Lake

Oswego alone has the local authority and resources to operate as a central facilitator. This role should include the maintenance and updating of future population growth estimates,

Alternative role strategies

No action - present policies
 | Alternative 1: Comprehensive role
 | Alternative 2: Specialized role
 | Alternative 3: Strategic role

Environments					Other participants or providers
wildlife habitat	X	X		X	w/Land Trust
wetland and natural area preservation	X	X		X	w/Land Trust
passive open space	X	X	X	X	w/Land Trust
Outdoor facilities					
playgrounds	O	X	X	X	w/Lake Oswego School District
skateboard courts	X	X	X	X	
basketball courts	O	X	X	O	w/Lake Oswego School District
volleyball courts	O	X	X	X	
tennis courts	X	X	X	X	w/Lake Oswego School District/Mt. Park Recreation Center
football fields		X			
soccer fields	X	X	X	X	w/Lake Oswego School District
baseball/softball fields	X	X	X	X	w/Lake Oswego School District
jogging tracks		X			
picnicking areas	X	X	X	X	
swimming beach	O	X		O	also by Lake Corporation
fishing from a bank or dock	X	X		X	also by Lake Corporation
boat ramps and access	O	X		X	also by Lake Corporation
recreational vehicle camping		X			
walking in a park	X	X	X	X	
walking on a trail	X	X		X	
bicycle trails	X	X		X	
bicycle touring routes	X	X		X	
equestrian trails		X		O	w/Lake Oswego Hunt Club
golf courses	X	X		X	as enterprise account
Indoor facilities					
swimming pool/sauna		X		O	w/Lake Oswego School District
ice arena		X			
exercise/physical conditioning		X		X	w/Lake Oswego School District
indoor gymnasium (basketball/volleyball)	X			X	w/Lake Oswego School District
indoor racquetball/handball courts		X			by Metropolitan Portland Regional Commission
arts/crafts/pottery rooms		X	X	X	w/Lakewood Arts Center
classroom/small meeting/training room	X	X	X	X	w/Lake Oswego School District/Lakewood Arts Center
auditorium/large meeting room		X		X	w/Lake Oswego School District/Lakewood Arts Center
kitchen facilities	X	X		X	
day care/preschool		X		X	w/Lake Oswego School District
youth/teen center		X		X	w/Lake Oswego School District
senior center	X	X		X	
cultural/performing arts		X			w/Lake Oswego School District/Lakewood Arts Center
Programs					
daycare and school child latch key		X		X	w/Lake Oswego School District
athletic leagues and sports programs	X	X	X	X	w/Lake Oswego School District
swimming instruction and competition		X		O	w/Lake Oswego School District
special population resources		X		X	w/Lake Oswego School District
teen age group programs		X		X	w/Lake Oswego School District
senior age group programs	X	X		X	
adult education and instruction	X	X		X	w/Portland Community College
cultural/performing arts		X		O	w/Lakewood Arts Center & Lake Oswego Arts Commission
special events	X	X		X	

X major role/responsibility O minor role/responsibility

inventories of existing and proposed facility developments, the identification of probable local facility and program needs, and proposals of area wide facility and program solutions.

Planning and development assistance

Lake Oswego should provide more detailed planning and development assistance when:

- there are no other designated agencies or organization that can;
- the activity involves citing controversies or environmental consequences that may not be equitably resolved otherwise within the Lake Oswego urban growth boundary; or
- a proposed development will be within the Lake Oswego urban growth boundary and thus potentially annexed into corporate limits subject to Lake Oswego authority.

Development, operation and maintenance

Lake Oswego should only develop, operate or maintain park or recreation facilities and activities under the following circumstances:

- the facility will have the broadest possible benefits for a large proportion of the local population and will be financed using resident approved methods; or
- facility development and operating costs will be recaptured from direct charges of the populations who use the facility; or
- facility development and operating costs will be compensated in some manner through local agreements with the using agency, area or benefiting user group, particularly where the demands will originate from a regional service requirement; or
- the site or facility has intrinsic value apart from traditional operation and maintenance needs, like a passive natural area or wetland preservation.

8.3 Role responsibility by activity

By activity, this plan recommends Lake Oswego assume the following responsibilities:

Environmental conservation

Lake Oswego should assume a major responsibility for the planning, coordination, and preservation of unique wildlife habitat, ecological, wetland, environmental, and open space areas.

Lake Oswego should work with all other public and private agencies, particularly Oregon State Parks, Fish & Wildlife, Natural Resources, and Transportation Department to create an effective approach to these local conservation issues and proposals.

Outdoor facilities

Lake Oswego should assume a major responsibility for the planning, development, and operation of a variety of outdoor facilities including playgrounds, tennis courts, picnicking areas, swimming and fishing beaches, park and bicycle trails that are directly related to site opportunities within the urban growth boundary and are of most interest to local residents.

Lake Oswego should help coordinate and assist other public and private agencies, such as the Lake Oswego School District, to develop major competitive outdoor athletic facilities including football, soccer, baseball, and softball, as well as pick-up play facilities for outdoor basketball and volleyball courts since these facilities are and will be provided by this agency.

Special facilities

Lake Oswego may assume some responsibility, including enterprise operations and/or joint efforts where appropriate, for the development and operation of facilities that have special or unique interests, impacts or relevance to residents of Lake Oswego that may not be provided by another public or private agency.

Indoor facilities

Lake Oswego should help coordinate and assist other public and private agencies, such as the Lake Oswego School District, Lakewood Arts Center, and others to plan, develop, and operate specialized indoor facilities including exercise and conditioning, gymnasiums, courts, arts and crafts, classrooms, small meeting rooms for special populations, youths and teens, seniors, and the general population since these facilities directly serve the local area and are of major interest to city residents of all ages.

Lake Oswego should help coordinate and assist other public and private agencies, especially the Lake Oswego School District, to develop specialized indoor athletic facilities including swimming pools and aquatic facilities, gymnasiums, auditoriums, kitchens, and large meeting facilities that service particular age groups within the community.

Recreation programs

Lake Oswego should assist with, and possibly coordinate the operation of programs for athletic leagues and sports, teen and senior age groups, and special populations since these facilities directly serve the local area and are of major interest to city residents of all ages.

Lake Oswego should help coordinate and assist other public and private agencies, potentially the YMCA, to initiate specialized programs for daycare and school child latch key services using city and school facilities where appropriate.



Chapter 9: Implementation

Chapter 9: Implementation

9.1 Recommendation

Additional investment in Lake Oswego's park and recreation system is needed to meet current and future demands, as indicated in Chapter 5.

The attached table (Proposed level of service (PLOS) additions - by site) lists recommended improvements and investments for the next 15-20 years. The investments listed are not in priority order and determining community priorities is beyond the scope of this master plan. However, further assessment will be needed to determine which investments the community feels are most necessary in preparing Lake Oswego to meet future park and recreational needs.

9.2 Funding

The level of financial investment needed to fully implement the proposed additions can not be financed with the resources available to Lake Oswego, Lake Oswego School District, and other jurisdictions if each were to pursue an independent delivery approach or use traditional methods of funding. In order to deliver a comprehensive park and recreation system, Lake Oswego must use a combination of creative approaches and funding mechanisms.

Historically, there have been three methods by which the City has paid for needed capital improvements in its park system:

Parks System Development Charges (SDCs).

In accordance with Oregon state law, the City charges all new residential development an SDC to help pay for the impact new development has on the park system. Currently, the reimbursement component of the Park SDC is \$1,985 for a single-family residence, and the improvement component is \$296. Revenues from these fees can be used only to pay for expansion of the park system or improvements directly related to accommodating growth.

The Parks SDC has not been increased since the early 1990's. It is recommended that both components of the parks SDC be re-assessed to ensure that new growth is contributing appropriately to the impact it has on the park system.

General Obligation Bonds

In the past, the City has incurred debt to pay for improvements or expansion of the park system. To incur this debt, the community, through a majority vote, must authorize the City to sell general obligation bonds for a specific purpose. The City then uses the bond proceeds to finance those specified improvements while paying back debt via a tax on

City property owners. Recent examples of this financing method are the 1990 Parks and Open Space Bond Measure and the 1998 Open Space Acquisition and Athletic Field Renovation Bond Measure.

Parks and Recreation Fund.

The primary source of revenues for the Parks and Recreation Fund is property taxes. Property taxes are allocated agency-wide for five different uses: Public Safety; Parks and Recreation; Library; Adult Community Center, and the General Fund. Due to the passage of Ballot Measures 47 and 50, the assessed property values state wide are capped at an increase of 3% annually plus new construction. For the Lake Oswego, this results in a long-term reduction in available resources for Parks capital projects. In the future, it's anticipated that this funding source will be barely adequate to cover the replacement of existing park infrastructure.

Future Funding Opportunities

Future spending for park capital projects may need to come from a variety of sources. Re-evaluating the City's park SDC requirement will assist in funding some expansion projects, but is unlikely to cover a significant portion of this expense. Another park bond could be considered, but will have to compete for the attention of the community with other pressing city infrastructure needs. A local option levy is another possibility, which requires a vote of the community. As with most local agencies, Lake Oswego has historically preferred to use local option levies to assist in covering operating expenses, while using bond proceeds for capital projects. Therefore, alternative-funding methods will also need to be explored.

Possible alternative funding mechanisms could include:

- Public/partnerships;
- Leveraging city resources by purchasing access easements, conservation easements, and development rights on private property;
- Tax incentives to private landowners to preserve sensitive lands, and open space;
- Charitable donations;
- Creation of a non-profit Parks Foundation to financially support local park and recreation facilities and programs.

These and other alternatives are discussed in greater detail in the Lake Oswego Open Space Master Plan, adopted by the City Council in March 2001.



APPENDIX

**Athletic Field Requirements
Lake Oswego, Oregon
23 June 2001**

Summary technical findings and implications

Baseball/softball

1: There are enough total baseball/softball fields in the park and school systems (not accounting for field quality) (576 slot capacity per peak week in June) to satisfy current peak week game and practice requirements (421 slot requirements per peak week in June equal to an 155 slot surplus) – were these fields upgraded and scheduled effectively. Consequently, there is no ***immediate*** requirement to buy and develop fields.

(Note: Portland Community College and Marylhurst University land has not been included in existing inventories, nor has it been used to estimate acres required to meet future needs.)

2: However, the margin is relatively thin for fields in the 65x225/280/300 preferred size (5 slot residual per peak week in June).

3: This assumes most fields are available during the week between 4:00 and 9:00 pm for the youngest ages, 5:00 and 10:00 pm for all others. It also assumes the average practice or game slot to be 1.5-2.0 hours for the youngest ages, and 3.0 hours for the oldest ages.

4: This also assumes games will be played between 8:30 am and 8:30 pm on Saturday and 1:00 and 8:30 pm on Sunday for the youngest ages, and 10:00 am and 10:00 pm on Saturday and 1:00 and 10:00 pm on Sunday for the oldest ages.

Short term strategies

5: ***Upgrade the existing*** smaller size fields at elementary schools and light the high school fields to provide practice and play capacity for this age group.

Long term strategies

6: ***Develop additional fields*** in the 65/90x300 foot configuration with lights to increase capacity for older age groups and competition tournaments – and to anticipate future population increase. Also, ***pursue user agreements***, if possible, for use of the competition facilities at Marylhurst and Portland Community Colleges.

These combined actions will increase the residual field capacity to 302 slots – enough to meet potential population needs.

Soccer/football

1: There are not enough total soccer/football fields in the park and school systems (not accounting for field quality) (433 slot capacity per peak week in October) to satisfy current peak week game and practice requirements (428 slot soccer and 113 slot football requirements per peak week in June equal to a 118 slot deficit) – were these fields upgraded and scheduled effectively. Consequently, there is an ***immediate*** requirement to buy and develop more soccer fields.

2: The margin is very thin for fields in the 159/180x300/360 preferred soccer field size for (a shortage of 146 slots per peak week in October).

3: This assumes most fields are available during the week between 4:00 and 7:00 pm for the youngest ages, 4:00 and 10:00 pm for all others. It also assumes the average practice or game slot to be 1.0-2.0 hours for the youngest ages, and 3.0-4.0 hours for the oldest ages.

4: This also assumes games will be played between 8:30 am and 7:00 pm on Saturday and 11:30 and 7:00 pm on Sunday for the youngest ages, and 9:00 am and 10:00 pm on Saturday and 12:00 and 10:00 pm on Sunday for the oldest ages.

Short term strategies

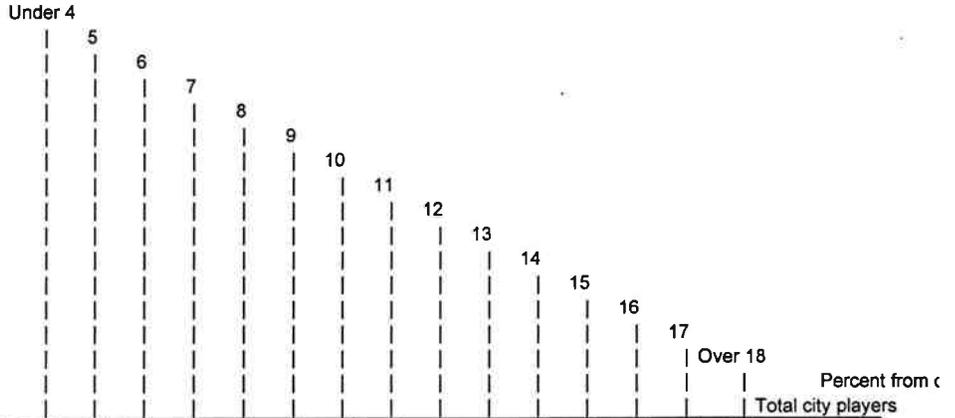
5: **Develop additional soccer fields** in the 180/210x300/360 foot configuration with lights to increase capacity for older age groups and competition tournaments – and to anticipate future population increase. Also, **pursue user agreements**, if possible, for use of the competition facilities at Marylhurst and Portland Community Colleges.

Baseball/softball field analysis

Baseball/softball
Organizational profile

	Sponsor	Year established	Profit/nonprofit status	Membership fee	Annual fee per player	Service area	Age	Sex	Percent female	Total players in league	Players from city	City percent	Percent of city
Lake Oswego Parks T-Ball C	LO Parks		np	\$65	LO	6	coed						0%
Skyhawks Youth Sports Cam	LO Parks		np	0	\$86	Waluga	6-14	coed	unk	94	61	65%	2%
Lakeridge Sports Camp			np	0		LOSD	7-15	boys		150	143	95%	5%
Subtotal youth camps										244	204	83%	7%
Parks Youth Sports League	LO Parks		np	0	\$18	LO	15-18	coed	40%	240	216	90%	7%
LO Little League - spring	LO Little League		np		\$65	LO	5-12	coed	33%	752	737	98%	25%
LO Little League - fall	LO Little League		np		\$65	LO	9-12	boys		144	115	80%	4%
Waluga Little League	Waluga Little League		np		\$65	LOSD	5-12	coed	33%	632	619	98%	21%
Babe Ruth	Babe Ruth		np		\$120	LOSD	13-15	boys		168	168	100%	6%
Junior Baseball	Jr Baseball of OR	1997	np	0	\$150	LOHS	13-15	boys	0%	84	84	100%	3%
American Legion	LO HS				\$0	LOSD	15-18	boys		48	48	100%	2%
American Legion	Lakeridge HS				\$0	LOSD	15-18	boys		48	48	100%	2%
ASA Softball	ASA					Metro	12-16	girls	100%	28	14	50%	0%
Subtotal youth leagues										2144	2050	96%	69%
Lake Oswego HS	LOSD		np	na	\$120	LOSD	14-18	coed		76	76	100%	3%
Lakeridge HS	LOSD		np	na	\$120	LOSD	14-18	coed		82	82	100%	3%
Westside Christian HS	Westside CHS	1981	np	na	\$120	Metro	14-18	coed		40	12	30%	0%
Subtotal school teams										198	170	86%	6%
City League Coed	City League	1984	np	0	\$24	LO	18+	coed	40%	560	392	70%	13%
Mens Softball		1970	np		\$54	LO	18+	coed	0%	252	176	70%	6%
Subtotal adult leagues										812	568	70%	19%
TOTAL										3398	2992	88%	100%

Baseball/softball
 Participation rates/projections - players from city
 Includes players in more than 1 league.



			Under 4	5	6	7	8	9	10	11	12	13	14	15	16	17	Over 18	Percent from c		
																	Total city players			
1999 city population*																	0			
LO Parks T-Ball Camp	3.5-6	coed	x	x	x													0	100%	
Skyhawks Youth Camp	6-14	coed			7	7	7	7	7	7	7	7	7					61	65%	
Lakeridge Sports Camp	7-15	coed			16	16	16	16	16	16	16	16	16	16	16			143	95%	
Subtotal youth camps			0			0	7	23	23	23	23	23	23	23	16	0	0	0	203	
Parks Youth Sports League	15-18	coed												72	72	72		216	90%	
Lk Oswego LL - T-Ball K	5	coed		98														98	98%	
Lk Oswego LL - T-Ball 1st	6	coed			98													98	98%	
Lk Oswego LL - S-Ball Farm	7-8	girls				12	12											24	98%	
Lk Oswego LL - S-Ball Minor	9-12	girls						9	9	9	9							35	98%	
Lk Oswego LL - S-Ball Major	10-12	girls							4	4	4							12	98%	
Lk Oswego LL - International	7-8	boys			59	59												118	98%	
Lk Oswego LL - Pacific	8-9	boys				59	59											118	98%	
Lk Oswego LL - National	9-12	boys					29	29	29	29								118	98%	
Lk Oswego LL - American	10-12	boys							39	39	39							118	98%	
Lk Oswego LL - fall	9-12	girls					19	19	19	19								77	80% 2 seas	
Lk Oswego LL - fall	9-12	boys					10	10	10	10								38	80% 2 seas	
Waluga LL - T-Ball K	5	coed		98														98	98%	
Waluga LL - T-Ball 1st	6	coed			98													98	98%	
Waluga LL - S-Ball Farm	7-8	girls				35	35											71	98%	
Waluga LL - S-Ball Minor	9-12	girls						9	9	9	9							35	98%	
Waluga LL - S-Ball Major	10-12	girls							8	8	8							24	98%	
Waluga LL - International	7-8	boys				29	29											59	98%	
Waluga LL - Pacific	8-9	boys					35	35										71	98%	
Waluga LL - National	9-12	boys						18	18	18	18							71	98%	
Waluga LL - American	10-12	boys							31	31	31							94	98%	
Babe Ruth	13-15	boys										32	32	32				96	100%	
Babe Ruth - fall ball	13-15	boys										24	24	24				72	100% 2 seas	
Junior Baseball	13-15	boys										28	28	28				84	100%	
American Legion - LO	15-18	boys												16	16	16		48	100% 2 seas	
American Legion - Lakeridge	15-18	boys												16	16	16		48	100% 2 seas	
ASA Softball	12-16	coed								6	6	6	6	6				28	100%	
Subtotal youth leagues			0			196	196	135	229	188	176	176	181	90	90	194	110	104	0	2064
Lake Oswego High School	14-18	girls												7	7	7	7		28	100%
Lake Oswego High School	14-18	boys												12	12	12	12		48	100%
Lakeridge High School	14-18	girls												7	7	7	7		28	100%
Lakeridge High School	14-18	boys												14	14	14	14		54	100%
Westside Christian HS	14-18	girls												2	2	2	2		6	30%
Westside Christian HS	14-18	boys												2	2	2	2		6	30%
Subtotal school teams			0			0	0	0	0	0	0	0	0	0	43	43	43	43	0	170
Coed Softball	18+	coed																392	392	70%
Mens Softball	18+	men																176	176	70%
Subtotal adult leagues			0			0	0	0	0	0	0	0	0	0	0	0	0	0	568	568
TOTAL PARTICIPATION			0			196	203	158	252	210	198	198	204	112	155	252	152	147	568	3005
Participation rate by age group																				
City population projections	2005																			
	2010																			
Player projections	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2010																			

Source of population projections: Lake Oswego School District and Planning Office
 * Adjusted to account for private school enrollments.

Baseball/softball Game requirements

	Age	Sex	Base path		Surface	Players/team	Number of teams		Total number of players		Number of games/team not including tournaments in season		Weeks in season schedule		Equals number of game requirements per week per team		Total number of games for all teams all weeks		Percent home games played inside city		Total number of home games all teams all w		Percent rain-out		Required game slots all teams		Game slots/week		Season		
			Outfield																												
Parks T-Ball	3.5-6	coed	na	na							4	0.0																			
Skyhawks Youth Camp	6-14	coed	na	na	grs	94		94			2	0.0																	5	12, & 26 July	
Lakeridge Sports Camp	7-15	coed	na	na	grs	150		150			2	0.0																	5	12, & 26 July	
Subtotal youth camps								0	244				0		0			0											10		
Parks Youth Sports League	15-18	coed	90	300	grs	20	12	240	32	6	5.3	384	50%	192	0%	192	32													16 Apr-21 May	
Lk Oswego LL-T-Ball K	5	coed	60	150	grs	10	10	100	18	13	1.4	180	50%	90	0%	90	7													2 Apr-25 June	
Lk Oswego LL-T-Ball 1st	6	coed	60	150	grs	10	10	100	19	13	1.5	190	50%	95	0%	95	7													2 Apr-25 June	
Lk Oswego LL-S-Ball Farm	7-8	girls	60	150	grs	12	2	24	20	13	1.5	40	50%	20	15%	23	2													2 Apr-25 June	
Lk Oswego LL-S-Ball Major	9-12	girls	60	200	grs	12	3	36	21	13	1.6	63	50%	32	15%	36	3													2 Apr-25 June	
Lk Oswego LL-S-Ball Minor	10-12	girls	60	200	grs	12	1	12	21	13	1.6	21	50%	11	15%	12	1													2 Apr-25 June	
Lk Oswego LL-International	7-8	boys	60	200	grs	12	10	120	20	13	1.5	200	50%	100	15%	115	9													2 Apr-25 June	
Lk Oswego LL-Pacific	8-9	boys	60	200	grs	12	10	120	21	13	1.6	210	50%	105	15%	121	9													2 Apr-25 June	
Lk Oswego LL-National	9-12	boys	60	200	grs	12	10	120	22	16	1.4	220	50%	110	15%	127	8													2 Apr-16 Jul	
Lk Oswego LL-American	10-12	boys	60	200	grs	12	10	120	26	16	1.6	260	50%	130	15%	150	9													2 Apr-16 Jul	
Lk Oswego LL-fall	9-12	girls	60	200	grs	12	8	96	26	9	2.9	208	50%	104	15%	120	13													20 Aug-15 Oct	
Lk Oswego LL-fall	9-12	boys	60	200	grs	12	4	48	26	9	2.9	104	50%	52	15%	60	7													20 Aug-15 Oct	
Waluga LL-T-Ball K	5	coed	60	150	grs	10	10	100	18	13	1.4	180	50%	90	0%	90	7													2 Apr-25 June	
Waluga LL-T-Ball 1st	6	coed	60	150	grs	10	10	100	19	13	1.5	190	50%	95	0%	95	7													2 Apr-25 June	
Waluga LL-S-Ball Farm	7-8	girls	60	150	grs	12	6	72	20	13	1.5	120	50%	60	15%	69	5													2 Apr-25 June	
Waluga LL-S-Ball Minor	9-12	girls	60	200	grs	12	3	36	21	13	1.6	63	50%	32	15%	36	3													2 Apr-25 June	
Waluga LL-S-Ball Major	10-12	girls	60	200	grs	12	2	24	21	13	1.6	42	50%	21	15%	24	2													2 Apr-25 June	
Waluga LL-International	7-8	boys	60	200	grs	12	5	60	20	13	1.5	100	50%	50	15%	58	4													2 Apr-25 June	
Waluga LL-Pacific	8-9	boys	60	200	grs	12	6	72	21	13	1.6	126	50%	63	15%	72	6													2 Apr-25 June	
Waluga LL-National	9-12	boys	60	200	grs	12	6	72	22	16	1.4	132	50%	66	15%	76	5													2 Apr-16 Jul	
Waluga LL-American	10-12	boys	60	200	grs	12	8	96	26	16	1.6	208	50%	104	15%	120	7													2 Apr-16 Jul	
Babe Ruth	13-15	boys	90	300	grs	12	8	96	36	14	2.6	288	33%	95	15%	109	8													26 Mar-28 June	
Babe Ruth Fall Ball	13-15	boys	90	300	grs	12	6	72	27	9	3.0	162	33%	53	15%	61	7													20 Aug-15 Oct	
Junior Baseball	13-15	boys	90	320	grs	12	7	84	26	13	2.0	182	33%	60	15%	69	5													7 May-31 July	
American Legion - LO	15-18	boys	90	330	grs	16	3	48	50	8	6.3	150	33%	50	15%	57	7														7 June-31 July
American Legion - Lake	15-18	boys	90	330	grs	16	3	48	50	8	6.3	150	33%	50	15%	57	7														7 June-31 July
ASA Softball	12-16	girls	65	280	grs	14	2	28	20	13	1.5	40	50%	20	15%	23	2													7 May-31 July	
Subtotal youth leagues								175	2144			4213		1948		2156	189														
Lake Oswego HS Softball	14-18	girls	60	225	grs	14	2	28	24	10	2.4	48	50%	24	15%	28	3														15 Mar-20 May
Lake Oswego HS Baseball	14-18	boys	90	350	grs	16	3	48	26	10	2.6	78	50%	39	15%	45	4														15 Mar-20 May
Lakeridge HS Softball	14-18	girls	60	225	grs	14	2	28	24	10	2.4	48	50%	24	15%	28	3														15 Mar-20 May
Lakeridge HS Baseball	14-18	boys	90	350	grs	18	3	54	26	10	2.6	78	50%	39	15%	45	4														15 Mar-20 May
Westside CHS Softball	14-18	girls	60	225	grs	20	1	20	24	10	2.4	24	50%	12	15%	14	1														15 Mar-20 May
Westside CHS Baseball	14-18	boys	90	330	grs	20	1	20	26	10	2.6	26	50%	13	15%	15	1														15 Mar-20 May
Subtotal school teams								12	198			302		151		174	17														
Coed Softball	18+	coed	65	280	grs	16	35	560	16	12	1.3	560	50%	280	15%	322	27														18 June-6 Aug
Mens Softball	18+	men	65	280	grs	12	21	252	16	12	1.3	336	50%	168	15%	193	16														18 June-6 Aug
Subtotal adult leagues								56	812			896		448		515	43														
TOTAL								243	3398			5411		2547		2845	260														

Baseball/softball Game requirements

	Age	Sex	Base path		Surf:	Weeks 2000																									
			Outfield			Jan	Feb		Mar		Apr		May			Jun															
						2	9	6	3	9	6	3	0	7	5	2	9	6	2	9	6	3	0	7	4	1	2	2	1	1	
Parks T-Ball	3.5-6	coed	na	na																											
Skyhawks Youth Camp	6-14	coed	na	na	grs																										
Lakeridge Sports Camp	7-15	coed	na	na	grs																										
Subtotal youth camps						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parks Youth Sports Lea	15-18	coed	90	300	grs													32	32	32	32	32	32								
Lk Oswego LL-T-Ball K	5	coed	60	150	grs													7	7	7	7	7	7	7	7	7	7	7	7		
Lk Oswego LL-T-Ball 1st	6	coed	60	150	grs													7	7	7	7	7	7	7	7	7	7	7	7		
Lk Oswego LL-S-Ball Fa	7-8	girls	60	150	grs													2	2	2	2	2	2	2	2	2	2	2	2		
Lk Oswego LL-S-Ball M	9-12	girls	60	200	grs													3	3	3	3	3	3	3	3	3	3	3	3		
Lk Oswego LL-S-Ball M	10-12	girls	60	200	grs													1	1	1	1	1	1	1	1	1	1	1	1		
Lk Oswego LL-Internatid	7-8	boys	60	200	grs													9	9	9	9	9	9	9	9	9	9	9	9		
Lk Oswego LL-Pacific	8-9	boys	60	200	grs													9	9	9	9	9	9	9	9	9	9	9	9		
Lk Oswego LL-National	9-12	boys	60	200	grs													8	8	8	8	8	8	8	8	8	8	8	8		
Lk Oswego LL-American	10-12	boys	60	200	grs													9	9	9	9	9	9	9	9	9	9	9	9		
Lk Oswego LL-fall	9-12	girls	60	200	grs																										
Lk Oswego LL-fall	9-12	boys	60	200	grs																										
Waluga LL-T-Ball K	5	coed	60	150	grs													7	7	7	7	7	7	7	7	7	7	7	7		
Waluga LL-T-Ball 1st	6	coed	60	150	grs													7	7	7	7	7	7	7	7	7	7	7	7		
Waluga LL-S-Ball Farm	7-8	girls	60	150	grs													5	5	5	5	5	5	5	5	5	5	5	5		
Waluga LL-S-Ball Minor	9-12	girls	60	200	grs													3	3	3	3	3	3	3	3	3	3	3	3		
Waluga LL-S-Ball Major	10-12	girls	60	200	grs													2	2	2	2	2	2	2	2	2	2	2	2		
Waluga LL-International	7-8	boys	60	200	grs													4	4	4	4	4	4	4	4	4	4	4	4		
Waluga LL-Pacific	8-9	boys	60	200	grs													6	6	6	6	6	6	6	6	6	6	6	6		
Waluga LL-National	9-12	boys	60	200	grs													5	5	5	5	5	5	5	5	5	5	5	5		
Waluga LL-American	10-12	boys	60	200	grs													7	7	7	7	7	7	7	7	7	7	7	7		
Babe Ruth	13-15	boys	90	300	grs												8	8	8	8	8	8	8	8	8	8	8	8	8		
Babe Ruth Fall Ball	13-15	boys	90	300	grs																										
Junior Baseball	13-15	boys	90	320	grs																				5	5	5	5	5		
American Legion - LO	15-18	boys	90	330	grs																							7	7		
American Legion - Lake	15-18	boys	90	330	grs																							7	7		
ASA Softball	12-16	girls	65	280	grs																					2	2	2	2	2	
Subtotal youth leagues						0	0	0	0	0	0	0	0	0	0	0	8	109	109	141	141	141	148	148	148	116	116	131	131		
Lake Oswego HS Softball	14-18	girls	60	225	grs												3	3	3	3	3	3	3	3	3	3	3	3			
Lake Oswego HS Baseball	14-18	boys	90	350	grs												4	4	4	4	4	4	4	4	4	4	4	4			
Lakeridge HS Softball	14-18	girls	60	225	grs												3	3	3	3	3	3	3	3	3	3	3	3			
Lakeridge HS Baseball	14-18	boys	90	350	grs												4	4	4	4	4	4	4	4	4	4	4	4			
Westside CHS Softball	14-18	girls	60	225	grs												1	1	1	1	1	1	1	1	1	1	1	1			
Westside CHS Baseball	14-18	boys	90	330	grs												1	1	1	1	1	1	1	1	1	1	1	1			
Subtotal school teams						0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	17	17	17	17	17	0	0	0	0
Coed Softball	18+	coed	65	280	grs																						27	27	27	27	
Mens Softball	18+	men	65	280	grs																						16	16	16	16	
Subtotal adult leagues						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43	43	43	43
TOTAL						0	0	0	0	0	0	0	0	0	17	17	25	127	127	159	159	159	166	166	166	209	159	159	174	174	

Baseball/softball Practice requirements by size

	Age	Sex	Base path			Surface	Players/team		Number of teams	Total players	Number pre-season weeks	Number of practices/week/team	Number of preseason practices/team all weeks	Total practice slots/preseason week all teams	Pre-season dates	Season weeks								
			Infield	Outfield	Grass		Grass	Grass								Grass	Grass	Grass	Grass	Grass	Grass	Grass	Grass	Grass
Parks T-Ball	3.5-6	coed	na	na	grs									no practice					no practice					
Skyhawks Youth Camp	6-14	coed	na	na	grs			94						no practice					no practice					
Lakeridge Sports Camp	7-15	coed	na	na	grs			150						no practice					no practice					
Subtotal youth camps															0	244	0	0	0					
Lk Oswego LL-T-Ball K	5	coed	60	150	grs	10	10	100	1	3	3	30	26 Mar-2 Apr	13	1.5	20	15	2 Apr-25 June						
Lk Oswego LL-T-Ball 1st	6	coed	60	150	grs	10	10	100	1	3	3	30	26 Mar-2 Apr	13	1.5	20	15	2 Apr-25 June						
Lk Oswego LL-S-Ball Fa	7-8	girls	60	150	grs	12	2	24	2	4	8	8	19 Mar-2 Apr	13	1.5	20	3	2 Apr-25 June						
Waluga LL-T-Ball K	5	coed	60	150	grs	10	10	100	1	3	3	30	26 Mar-2 Apr	13	1.5	20	15	2 Apr-25 June						
Waluga LL-T-Ball 1st	6	coed	60	150	grs	10	10	100	1	3	3	30	26 Mar-2 Apr	13	1.5	20	15	2 Apr-25 June						
Waluga LL-S-Ball Farm	7-8	girls	60	150	grs	12	6	72	2	4	8	24	19 Mar-2 Apr	13	1.5	20	9	2 Apr-25 June						
Subtotal															48	496	8	152						
Lk Oswego LL-S-Ball M	9-12	girls	60	200	grs	12	3	36	2	4	8	12	19 Mar-2 Apr	13	2.0	26	6	2 Apr-25 June						
Lk Oswego LL-S-Ball M	10-12	girls	60	200	grs	12	1	12	2	4	8	4	19 Mar-2 Apr	13	2.0	26	2	2 Apr-25 June						
Lk Oswego LL-Internat	7-8	boys	60	200	grs	12	10	120	3	4	12	40	12 Mar-2 Apr	13	1.5	20	15	2 Apr-25 June						
Lk Oswego LL-Pacific	8-9	boys	60	200	grs	12	10	120	3	4	12	40	12 Mar-2 Apr	13	1.5	20	15	2 Apr-25 June						
Lk Oswego LL-National	9-12	boys	60	200	grs	12	10	120	3	4	12	40	12 Mar-2 Apr	16	2.0	32	20	2 Apr-16 Jul						
Lk Oswego LL-American	10-12	boys	60	200	grs	12	10	120	3	4	12	40	12 Mar-2 Apr	16	2.0	32	20	2 Apr-16 Jul						
Lk Oswego LL-fall	9-12	girls	60	200	grs	12	8	96	2	0	0	0	6 Aug-20 Aug	9	0.0	0	0	20 Aug-15 Oct						
Lk Oswego LL-fall	9-12	boys	60	200	grs	12	4	48	2	0	0	0	6 Aug-20 Aug	9	0.0	0	0	20 Aug-15 Oct						
Waluga LL-S-Ball Minor	9-11	girls	60	200	grs	12	3	36	2	4	8	12	19 Mar-2 Apr	13	2.0	26	6	2 Apr-25 June						
Waluga LL-S-Ball Major	11-12	girls	60	200	grs	12	2	24	2	4	8	8	19 Mar-2 Apr	13	2.0	26	4	2 Apr-25 June						
Waluga LL-International	7-8	boys	60	200	grs	12	5	60	3	4	12	20	12 Mar-2 Apr	13	1.5	20	8	2 Apr-25 June						
Waluga LL-Pacific	8-9	boys	60	200	grs	12	6	72	3	4	12	24	12 Mar-2 Apr	13	1.5	20	9	2 Apr-25 June						
Waluga LL-National	9-11	boys	60	200	grs	12	6	72	3	4	12	24	12 Mar-2 Apr	16	2.0	32	12	2 Apr-16 Jul						
Waluga LL-American	11-12	boys	60	200	grs	12	8	96	3	4	12	32	12 Mar-2 Apr	16	2.0	32	16	2 Apr-16 Jul						
Subtotal															86	1032		296						
Lake Oswego HS Softba	14-18	girls	60	225	grs	14	2	28	2	5	10	10	1 Mar-14 Mar	10	4.0	40	8	15 Mar-20 May						
Lakeridge HS Softball	15-18	girls	60	225	grs	14	2	28	2	5	10	10	1 Mar-14 Mar	10	4.0	40	8	15 Mar-20 May						
Westside CHS softball	14-18	girls	60	225	grs	20	1	20	2	5	10	5	1 Mar-14 Mar	10	4.0	40	4	15 Mar-20 May						
Subtotal															5	76		25						
ASA Softball	12-16	girls	65	280	grs	14	2	28	3	3	9	6	15 Apr-7 May	13	2.0	26	4	7 May-31 July						
Coed Softball	18+	coed	65	280	grs	16	35	560						no practice				no practice						
Mens Softball	18+	men	65	280	grs	12	21	252						no practice				no practice						
Subtotal															58	840		6						
Parks Youth Sports Lea	15-18	coed	90	300	grs	20	12	240	2	4	8	48	2 Apr-16 Apr	6	0.0	0	0	16 Apr-21 May						
Babe Ruth	13-15	boys	90	300	grs	12	8	96	3	3	8	21	6 Mar-25 Mar	14	2.0	28	16	26 Mar-28 June						
Babe Ruth Fall Ball	13-15	boys	90	300	grs	12	6	72	3	4	12	16	1 Aug-20 Aug	9	1.0	9	6	20 Aug-15 Oct						
Junior Baseball	13-15	boys	90	320	grs	12	7	84	3	4	12	28	15 Apr-7 May	13	2.0	26	14	7 May-31 July						
American League - LO	15-18	boys	90	330	grs	12	4	48	0	0	0	0		8	1.0	8	4	7 June-31 July						
American League - Lake	15-18	boys	90	330	grs	12	4	48	0	0	0	0		8	1.0	8	4	7 June-31 July						
Subtotal youth leagues															41	588		113						
Lake Oswego HS Baseb	14-18	boys	90	330	grs	16	3	48	2	5	10	15	1 Mar-14 Mar	10	4.0	40	12	15 Mar-20 May						
Lakeridge HS Baseball	15-18	boys	90	330	grs	18	3	54	2	5	10	15	1 Mar-14 Mar	10	4.0	40	12	15 Mar-20 May						
Westside CHS baseball	14-18	boys	90	330	grs	20	1	20	2	5	10	5	1 Mar-14 Mar	10	4.0	40	4	15 Mar-20 May						
Subtotal school teams															7	122		35						
TOTAL															245	3398		627						

Baseball/softball

Peak week field capacities by size - scenario 2 w/weekday games

Field Name	Lights	Infield dimensions	Outfield dimensions	Surface materials (synthetic/grass/sand)	Monday-Friday practices and games					Saturday games				Sunday games				Peak week					
					Starting time	Ending time	1st slot - practice	2nd slot - game	Nmbr practices per week	Nmbr games per week	Starting time	Ending time	Game slot	Nmbr games	Starting time	Ending time	2nd slot - game	Nmbr games	Prctc	Games			
					pm	pm				am	pm			pm	pm								
Palisades #2	LOSD	no	no	60	150	grs	4:00	8:30	1.5	1.5	10	5	8:30	8:30	1.5	8	1:00	8:30	1.5	5	10	18	**
River Grove ES	LOSD	no	no	60	150	grs	4:00	8:30	1.5	1.5	10	5	8:30	8:30	1.5	8	1:00	8:30	1.5	5	10	18	
Uplands ES #1	LOSD	no	no	60	180	grs	4:00	8:30	1.5	1.5	10	5	8:30	8:30	1.5	8	1:00	8:30	1.5	5	10	18	
Uplands ES #2	LOSD	no	no	60	180	grs	4:00	8:30	1.5	1.5	10	5	8:30	8:30	1.5	8	1:00	8:30	1.5	5	10	18	
					40		20		32		20		40		72								
Bryant ES #1	LOSD	no	no	60	200	grs	5:00	9:00	2.0	2.0	5	5	9:00	9:00	2.0	6	1:00	9:00	2.0	4	5	15	
Bryant ES #2	LOSD	no	no	60	200	grs	5:00	9:00	2.0	2.0	5	5	9:00	9:00	2.0	6	1:00	9:00	2.0	4	5	15	
Forest Hills ES #1	LOSD	no	no	60	200	grs	5:00	9:00	2.0	2.0	5	5	9:00	9:00	2.0	6	1:00	9:00	2.0	4	5	15	**
Forest Hills ES #2	LOSD	no	no	60	200	grs	5:00	9:00	2.0	2.0	5	5	9:00	9:00	2.0	6	1:00	9:00	2.0	4	5	15	**
Hallinan ES	LOSD	yes	no	60	200	grs	5:00	9:00	2.0	2.0	5	5	9:00	9:00	2.0	6	1:00	9:00	2.0	4	5	15	
Lake Grove ES #1	LOSD	no	no	60	200	grs	5:00	9:00	2.0	2.0	5	5	9:00	9:00	2.0	6	1:00	9:00	2.0	4	5	15	
Lake Grove ES #2	LOSD	no	no	60	200	grs	5:00	9:00	2.0	2.0	5	5	9:00	9:00	2.0	6	1:00	9:00	2.0	4	5	15	
Palisades #1	LOSD	no	no	60	200	grs	5:00	9:00	2.0	2.0	5	5	9:00	9:00	2.0	6	1:00	9:00	2.0	4	5	15	**
Westridge ES	LOSD	yes	no	60	200	grs	5:00	9:00	2.0	2.0	5	5	9:00	9:00	2.0	6	1:00	9:00	2.0	4	5	15	
					45		45		54		36		45		135								
George Rogers Park LL#1	Parks	no	yes	60	200	grs	4:00	10:00	2.0	2.0	10	5	8:00	10:00	2.0	7	12:00	10:00	2.0	5	10	17	
George Rogers Park LL#2	Parks	no	yes	60	200	grs	4:00	10:00	2.0	2.0	10	5	8:00	10:00	2.0	7	12:00	10:00	2.0	5	10	17	
Waluga Park LL #1	Parks	no	yes	60	200	grs	4:00	10:00	2.0	2.0	10	5	8:00	10:00	2.0	7	12:00	10:00	2.0	5	10	17	
Westlake Park LL #1	Parks	no	yes	60	200	grs	4:00	10:00	2.0	2.0	10	5	8:00	10:00	2.0	7	12:00	10:00	2.0	5	10	17	
Lake Oswego H #2*	LOSD	no	yes	60	200	grs	4:00	10:00	2.0	2.0	10	5	8:00	10:00	2.0	7	12:00	10:00	2.0	5	10	17	
Waluga JH LL#2	LOSD	no	yes	60	200	grs	4:00	10:00	2.0	2.0	10	5	8:00	10:00	2.0	7	12:00	10:00	2.0	5	10	17	
Waluga JH LL#3	LOSD	no	yes	60	200	grs	4:00	10:00	2.0	2.0	10	5	8:00	10:00	2.0	7	12:00	10:00	2.0	5	10	17	
					70		35		49		35		70		119								
Lake Oswego JH LL#1*	LOSD	no	yes	65	300	grs	4:00	10:00	2.0	2.0	10	5	8:00	10:00	2.0	7	12:00	10:00	2.0	5	10	17	
Lake Oswego JH SB#2	LOSD	no	yes	65	300	grs	4:00	10:00	2.0	2.0	10	5	8:00	10:00	2.0	7	12:00	10:00	2.0	5	10	17	
					20		10		14		10		20		34								
Waluga JH LL#1*	LOSD	no	yes	90	300	grs	4:00	10:00	3.0	3.0	5	5	10:00	10:00	3.0	4	1:00	10:00	3.0	3	5	12	
Waluga Park #2	Parks	no	yes	90	300	grs	4:00	10:00	3.0	3.0	5	5	10:00	10:00	3.0	4	1:00	10:00	3.0	3	5	12	
Westlake Park #2	Parks	no	yes	90	300	grs	4:00	10:00	3.0	3.0	5	5	10:00	10:00	3.0	4	1:00	10:00	3.0	3	5	12	
Westlake Park #3	Parks	no	yes	90	300	grs	4:00	10:00	3.0	3.0	5	5	10:00	10:00	3.0	4	1:00	10:00	3.0	3	5	12	
Subtotal Parks					20		20		16		12		20		48								
Lakeridge HS #2	LOSD	no	no	90	300	grs	3:00	8:00	2.0	3.0	5	5	8:00	9:00	3.0	4	11:00	9:00	3.0	3	5	12	
Lake Oswego HS #1	LOSD	no	yes	90	300	grs	3:00	10:00	2.0	3.0	10	5	10:00	10:00	3.0	4	1:00	10:00	3.0	3	10	12	
Lakeridge HS #1	LOSD	no	yes	90	300	grs	3:00	10:00	2.0	3.0	10	5	10:00	10:00	3.0	4	1:00	10:00	3.0	3	10	12	
					25		15		12		9		25		36								
Total																							
					220		145		177		122		220		444								

* Improvements from Parks bond.

** To be improved per parks plan.

Baseball/softball
Existing field condition/capabilities/utilizations

	Existing conditions		Lights		Infield dimensions		Outfield dimensions		Surface materials (synthetic/grass/sand)		Quality	Nbr Qty Flds
	Multiuse											
George Rogers Park LL#1	Parks	no	yes	60	200	grass	good					1
George Rogers Park LL#2	Parks	no	yes	60	200	grass	good					1
Waluga Park LL #1	Parks	no	yes	60	200	grass	good					1
Waluga Park #2	Parks	no	yes	90	300	grass	good					1
Westlake Park LL #1	Parks	no	yes	60	200	grass	good					1
Westlake Park #2	Parks	no	yes	90	300	grass	good					1
Westlake Park #3	Parks	no	yes	90	300	grass	good					1
Subtotal Parks												7
Bryant ES #1	LOSD	no	no	60	200	grass	good					1
Bryant ES #2	LOSD	no	no	60	200	grass	good					1
Forest Hills ES #1	LOSD	no	no	60	200	grass	poor					0
Forest Hills ES #2	LOSD	no	no	60	200	grass	poor					0
Hallinan ES	LOSD	yes	no	60	200	grass	good					1 practice/T-ball only
Lake Grove ES #1	LOSD	no	no	60	200	grass	average					1
Lake Grove ES #2	LOSD	no	no	60	200	grass	average					1
Lake Oswego HS #1	LOSD	no	yes	90	300	grass	good					1
Lake Oswego HS #2	LOSD	no	yes	60	200	grass	good					1 w/1999 bonds
Lake Oswego JH LL#1	LOSD	no	yes	65	300	grass	good					1 w/1999 bonds
Lake Oswego JH SB#2	LOSD	no	yes	65	300	grass	good					1 w/1999 bonds
Lakeridge HS #1	LOSD	no	yes	90	300	grass	good					1
Lakeridge HS #2	LOSD	no	no	90	300	grass	good					1
Palisades #1	LOSD	no	no	60	200	grass	poor					0
Palisades #2	LOSD	no	no	60	150	grass	poor					0
River Grove ES	LOSD	no	no	60	150	grass	good					1 w/1999 bonds
Uplands ES #1	LOSD	no	no	60	180	grass	good					1
Uplands ES #2	LOSD	no	no	60	180	grass	good					1
Waluga JH LL#1	LOSD	no	yes	90	300	grass	good					1 w/1999 bonds
Waluga JH LL#2	LOSD	no	yes	60	200	grass	good					1
Waluga JH LL#3	LOSD	no	yes	60	200	grass	good					1
Westridge ES	LOSD	yes	no	60	200	grass	average					1 practice/T-ball only
Subtotal LOSD												18
Lewis & Clark College	Prvt	no					no use					1
Marylhurst College	Prvt	no					prvt					1
Subtotal others												2
TOTAL												27

Good - artificial turf, grass or all-weather surface fields in good condition with few bare spots or weeds. Goal posts or backstops are in good condition. May include site amenities such as lights, restrooms, storage, dug-outs, or large bleachers. Fields are usually irrigated and on-going maintenance is evident.

Average - soil, and/or rubber mix fields or grass fields with uneven surface or with some ruts, stones, etc.

May show evidence of poor drainage. May include additional amenities such as bleachers or water fountains.

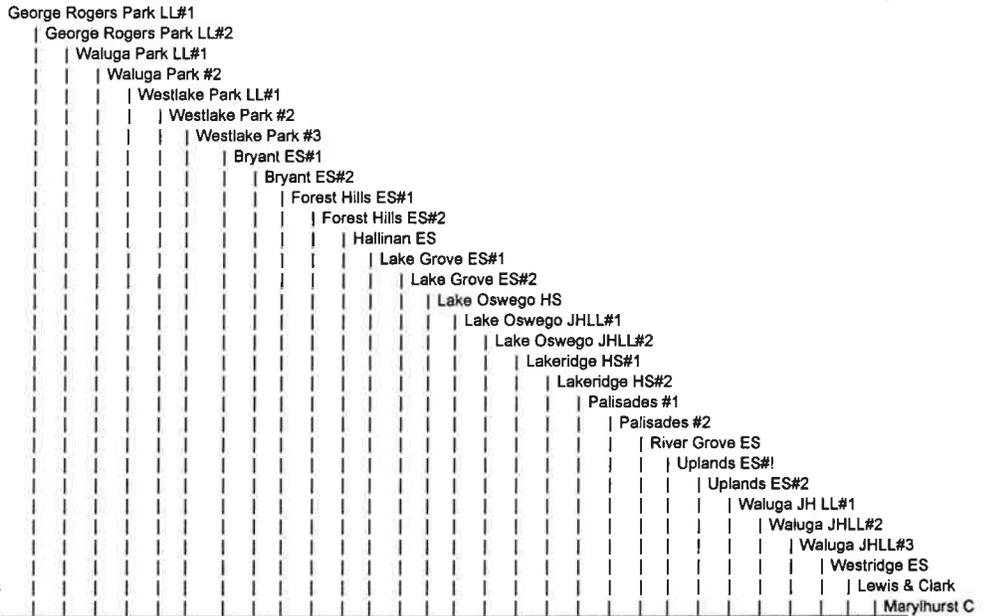
May or may not be irrigated. Maintenance is limited and some renovation is needed to maximize capacity.

Poor - field has cinder or cirtrex surface or contains numerous ruts, rocks and/or weeds. Field is not used irrigated.

Amenities limited to backstops or goal posts which may be too small and/or in poor condition. Fields may have severe drainage problems, uneven surfaces or slope in one direction. Complete renovation is needed. Receives minimum maintenance under present conditions.

* indicates number of teams indicating use of field divided by number of fields per site.

Baseball/softball
Existing field utilization by league



Age	Sex	Base path	Outfield	Surface	Teams
LO Parks T-Ball	3.5-6	coed	na	na	
Skyhawks Youth Camp	6-14	coed	na	na	1
Lakeridge Sports Camp	7-15	boys	na	na	
Subtotal youth camps					
Parks Youth Sports Lea	15-18	coed	90	330	grs 12
Lk Oswego LL - T-Ball	5	coed	60	150	grs 10
Lk Oswego LL - T-Ball	6	coed	60	150	grs 10
Lk Oswego LL - S-Ball	7-8	girls	60	150	grs 2
Lk Oswego LL - S-Ball	9-12	girls	60	200	grs 3
Lk Oswego LL - S-Ball	10-12	girls	60	200	grs 1
Lk Oswego LL - Interna	7-8	boys	60	200	grs 10
Lk Oswego LL - Pacific	8-9	boys	60	200	grs 10
Lk Oswego LL - Nationa	9-12	boys	60	200	grs 10
Lk Oswego LL - Americ	10-12	boys	60	200	grs 10
Lk Oswego LL - fall	8	girls	60	150	grs 8
Lk Oswego LL - fall	9-12	boys	60	200	grs 4
Waluga LL - T-Ball K	5	coed	60	150	grs 10
Waluga LL - T-Ball 1st	6	coed	60	150	grs 10
Waluga LL - S-Ball Farr	7-8	girls	60	150	grs 6
Waluga LL - S-Ball Min	9-12	girls	60	200	grs 3
Waluga LL - S-Ball Maj	10-12	girls	60	200	grs 2
Waluga LL - Internation	7-8	boys	60	200	grs 5
Waluga LL - Pacific	8-9	bous	60	200	grs 6
Waluga LL - National	9-12	boys	60	200	grs 6
Waluga LL - American	10-12	boys	60	200	grs 8
Babe Ruth	13-15	boys	90	300	grs 8
Babe Ruth Fall Ball	13-15	boys	90	300	grs 6
Junior Baseball	13-15	boys	90	320	grs 7
American Legion - LOH	15-18	boys	90	330	grs 4
American Legion - Lake	15-18	boys	90	330	grs 4
ASA Softball	12-16	coed	65	280	grs 2
Subtotal youth leagues					
Lake Oswego HS Softb	14-18	girls	60	225	grs 2
Lake Oswego HS Baset	14-18	boys	90	350	grs 3
Lakeridge HS Softball	14-18	girls	60	225	grs 2
Lakeridge HS Baseball	14-18	boys	90	350	grs 3
Westside CHS softball	14-18	girls	65	280	grs 1
Westside CHS baseball	14-18	boys	90	330	grs 1
Subtotal school teams					
City League Coed	18+	coed	60	280	grs 35
Mens Softball	18+	men	65	280	grs 21
Subtotal adult leagues					
TOTAL					

Soccer/football field analysis

Soccer/football/lacrosse
Organizational profile

	Sponsor	Year established	Profit/nonprofit status	Membership fee	Annual fee	Service area	Age	Sex	Percent female	Total players in league	Players from city	City percent	Percent of city	
Lake Oswego Parks Soccer	Lake Oswego Parks				LOSD	3.5-6	coed			0	100%	0%		
Skyhawks Youth Sports Cam	Lake Oswego Parks	np		86	LOSD	7-14	coed	0.4	279	279	100%	6%		
School of Champions	Cmty Schools				LOSD	7-15			230	230	100%	5%	31 July-18 Aug	
Chichina Soccer	Cmty Schools				LOSD	7-15			45	45	100%	1%	19-23 June	
Willamette Soccer	Cmty Schools				LOSD	7-15			42	42	100%	1%	24-28 July	
Willamette Soccer	Cmty Schools				LOSD	7-15			50	50	100%	1%	7-11 August	
Willamette Soccer	Cmty Schools				LOSD	7-15			65	65	100%	1%	14-18 August	
Willamette Soccer	Cmty Schools				LOSD	7-15			100	100	100%	2%	24-28 July, 31-4 Au	
Subtotal soccer camps										811	811	100%	17%	
Soccer Rec League	Soccer Rec League					6-14	coed		2,609	2,285	88%	47%		
Soccer Classic League	Soccer Classic					6-14	coed		407	291	71%	6%		
Subtotal youth leagues										3,016	2,576	85%	53%	
Lake Oswego HS Soccer	LOSD				LOSD	14-18	girls		66	66	100%	1%		
Lake Oswego HS Soccer	LOSD				LOSD	14-18	boys		66	66	100%	1%		
Lake Oswego HS Lacrosse	LOSD				LOSD	14-18	girls		46	46	100%	1%		
Lake Oswego HS Lacrosse	LOSD				LOSD	14-18	boys		52	52	100%	1%		
Lake Oswego HS Football	LOSD				LOSD	14-18	boys		105	105	100%	2%		
Lakeridge HS Soccer	LOSD				LOSD	14-18	girls		66	66	100%	1%		
Lakeridge HS Soccer	LOSD				LOSD	14-18	boys		66	66	100%	1%		
Lakeridge HS Lacrosse	LOSD				LOSD	14-18	girls		46	46	100%	1%		
Lakeridge HS Lacrosse	LOSD				LOSD	14-18	boys		52	52	100%	1%		
Lakeridge HS Football	LOSD				LOSD	14-18	boys		105	105	100%	2%		
Westside Christian HS Socce	LOSD				Metro	14-18	girls		44	13	30%	0%		
Westside Christian HS Socce	LOSD				Metro	14-18	boys		44	13	30%	0%		
Subtotal school teams										758	696	92%	14%	
City League Adult 35+	City League	np		\$375	LOSD	>35	coed	40%	135	81	60%	2%		
City League Coed 18+	City League	np		\$400	LOSD	>18	coed	40%	180	108	60%	2%		
Subtotal adult leagues										315	189	60%	4%	
Lake Oswego Youth Football	LOHS	1998			LOSD	7-13	boys		300	294	98%	6%		
Lakeridge Youth Football	LRHS	1998			LOSD	7-13	boys		300	294	98%	6%		
Subtotal football/rugby										600	588	98%	12%	
TOTAL										5,500	4,860	88%	100%	

Soccer/football/lacrosse

Participation rates/projections

Includes players in more than 1 league and season.

Under 4

5

6

7

8

9

10

11

12

13

14

15

16

17

Over 18

Total

Per cent

			Under 4	5	6	7	8	9	10	11	12	13	14	15	16	17	Over 18	Total	Per cent	
																	city			
1999 city population*																				
LO Parks Soccer Camp	3.5-6		0	0	0													0	100%	
Skyhawks Youth Sports Cam	6-14				31	31	31	31	31	31	31	31						279	100%	
School of Champions	7-15					26	26	26	26	26	26	26	26					230	100%	
Chichina Soccer	7-15					5	5	5	5	5	5	5	5	5				45	100%	
Comty Schools - LO	7-15					5	5	5	5	5	5	5	5	5				42	100%	
Comty Schools - LO	7-15					6	6	6	6	6	6	6	6	6				50	100%	
Comty Schools - LO	7-15					7	7	7	7	7	7	7	7	7				65	100%	
Comty Schools - LR	7-15					11	11	11	11	11	11	11	11	11				100	100%	
Subtotal youth camps			0	0	31	90	90	90	90	90	90	90	90	59	0	0	0	811		
Soccer Rctn League	6-14				255	255	255	255	255	255	255	255						2609	88%	
Soccer Classic League	6-14				32	32	32	32	32	32	32	32						407	71%	
Subtotal youth leagues			0	0	287	287	287	287	287	287	287	287	287	0	0	0	0	3016		
Lake Oswego HS Soccer	14-18	girls											17	17	17	17		66	100%	
Lake Oswego HS Soccer	14-18	boys											17	17	17	17		66	100%	
Lake Oswego HS Lacrosse	14-18	girls											12	12	12	12		46	100%	
Lake Oswego HS Lacrosse	14-18	boys											13	13	13	13		52	100%	
Lake Oswego HS Football	14-18	boys											26	26	26	26		105	100%	
Lakeridge HS Soccer	14-18	girls											17	17	17	17		66	100%	
Lakeridge HS Soccer	14-18	boys											17	17	17	17		66	100%	
Lakeridge HS Lacrosse	14-18	girls											12	12	12	12		46	100%	
Lakeridge HS Lacrosse	14-18	boys											13	13	13	13		52	100%	
Lakeridge HS Football	14-18	boys											26	26	26	26		105	100%	
Westside Christian HS Socce	14-18	girls											3	3	3	3		44	30%	
Westside Christian HS Socce	14-18	boys											3	3	3	3		44	30%	
Subtotal school teams			0	0	0	0	0	0	0	0	0	0	174	174	174	174	0	758		
City League Adult 35+	>35																	81	135	60%
City League Coed	>18																	108	180	60%
Subtotal adult leagues			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	189	315	
Lake Oswego Youth Football	7-13	boys				3	24	35	47	71	47	71						300	98%	
Lakeridge Youth Football	7-13	boys				3	24	35	47	71	47	71						300	98%	
Subtotal football/rugby			0	0	0	6	47	71	94	141	94	141	0	0	0	0	0	600		
TOTAL PARTICIPATION			0	0	318	383	424	448	471	518	471	518	551	233	174	174	189	5500		
Participation rate by age group																				
City population projections	2005																			
	2010																			
Player projections	2005																			
	2010																			

Source of population projections: Lake Oswego School District and Planning Office

* Adjusted to account for private school enrollments.

Soccer/football/lacrosse

Game requirements by size field

	Age	Sex	Width		Length	Surface	Players/team	Number of teams	Total number of players		Number of games/team not including tournaments		Weeks in season schedule		Equals number of game requirements per week per team		Total number of games for all teams all weeks		Percent home games played inside city		Total number of home games all teams all		Percent wind/snow-out		Required game slots all teams		Season		
Skyhawks Youth Camp	7-14	coed	na	na				279	3						0												8 July-23 Aug		
School of Champions	7-15							230	3																		31 July-18 Aug		
Chichina Soccer	7-15							45	2																		19-23 June		
Willamette Soccer	7-15							42	1																		24-28 July		
Willamette Soccer	7-15							50	1																		7-11 Aug		
Willamette Soccer	7-15							65	1																		14-18 Aug		
Willamette Soccer	7-15							100	2																		24-28 July, 31-4 A		
Subtotal youth camps								0	811			0		0		0													
Soccer Rec League	5-6	coed	50	150	grs			0	10	0.0	0	35%	0	5%	0	0													
Soccer Classic League	5-6	coed	50	150	grs			0	11	0.0	0	40%	0	5%	0	0													
								0	0			0		0															
Soccer Rec League	7-8	coed	120	150	grs	18	38	684	10	10	1.0	380	35%	133	1%	134	13										20 Aug-29 Oct		
Soccer Classic League	7-8	coed	120	150	grs	18	20	360	10	11	0.9	200	35%	70	1%	71	6										12 Mar- 28 May		
								58	1044			580		203		205													
Soccer Rec League	9-10	coed	159	300	grs	18	50	900	10	10	1.0	500	35%	175	1%	177	18										20 Aug-29 Oct		
Soccer Rec League	11-12	coed	159	300	grs	18	46	828	10	10	1.0	460	35%	161	1%	163	16										20 Aug-29 Oct		
Soccer Rec League	13-14	coed	159	300	grs	18	32	576	10	10	1.0	320	35%	112	1%	113	11										20 Aug-29 Oct		
Soccer Classic League	9-10	coed	159	300	grs	18	6	108	10	11	0.9	60	35%	21	1%	21	2										12 Mar- 28 May		
Soccer Classic League	11-12	coed	159	300	grs	18	7	126	10	11	0.9	70	35%	25	1%	25	2										12 Mar- 28 May		
Soccer Classic League	13-14	coed	159	300	grs	18	7	126	10	11	0.9	70	35%	25	1%	25	2										12 Mar- 28 May		
								148	2664			1480		518		523													
City League Adult-spring	>35	coed	180	330	allw	15	9	135	9	12	0.8	81	50%	41	5%	43	4										5 Apr-21 June		
City League Adult-fall	>35	coed	180	330	allw	15	9	135	9	12	0.8	81	50%	41	5%	43	4											21 Sep- 6 Dec	
City League Coed-spring	>17	coed	180	360	allw	15	12	180	11	16	0.7	132	50%	66	5%	69	4										11 Mar-22 June		
City League Coed-fall	>17	coed	180	360	allw	15	12	180	11	11	1.0	132	50%	66	5%	69	6										10 Sep-19 Nov		
Subtotal adult leagues								42	630			426		213		224													
Lake Oswego HS Soccer	15-18	girls	195	330			22	3	66	20	13	1.5	60	50%	30	5%	32	2									26 Aug-20 Nov		
Lake Oswego HS Soccer	15-18	boys	195	330			22	3	66	20	13	1.5	60	50%	30	5%	32	2									26 Aug-20 Nov		
Lakeridge HS Soccer	15-18	girls	195	330			22	3	66	20	13	1.5	60	50%	30	5%	32	2									26 Aug-20 Nov		
Lakeridge HS Soccer	15-18	boys	195	330			22	3	66	20	13	1.5	60	50%	30	5%	32	2									26 Aug-20 Nov		
Westside CHS Soccer	15-18	girls	195	330			22	2	44	20	13	1.5	40	50%	20	5%	21	2									26 Aug-20 Nov		
Westside CHS Soccer	15-18	boys	195	330			22	2	44	20	13	1.5	40	50%	20	5%	21	2									26 Aug-20 Nov		
								16	352			320		160		168													
Lake Oswego HS Lacro	14-18	girls					23	2	46	14	10	1.4	28	50%	14	5%	15	1									19 Mar-21 May		
Lake Oswego HS Lacro	14-18	boys					26	2	52	14	10	1.4	28	50%	14	5%	15	1									19 Mar-21 May		
Lakeridge HS Lacrosse	14-18	girls					23	2	46	14	10	1.4	28	50%	14	5%	15	1									19 Mar-21 May		
Lakeridge HS Lacrosse	14-18	boys					26	2	52	14	10	1.4	28	50%	14	5%	15	1									19 Mar-21 May		
								8	196			112		56		59													
Lake Oswego HS Footb	15-18	boys	159	300	syn	35	3	105	9	13	0.7	27	50%	14	5%	14	1										26 Aug-20 Nov		
Lakeridge HS Football	15-18	boys	159	300	syn	35	3	105	9	13	0.7	27	50%	14	5%	14	1										26 Aug-20 Nov		
								6	210			54		27		28													
Lake Oswego Youth Fo	7-9	coed	159	300	syn	30	2	60	8	8	1.0	16	50%	8	0%	8	1.0										24 Sept-15 Nov		
	10-11	coed	159	300	syn	30	4	120	8	8	1.0	32	50%	16	0%	16	2.0										24 Sept-15 Nov		
	12-13	coed	159	300	syn	30	2	60	8	8	1.0	16	50%	8	0%	8	1.0										24 Sept-15 Nov		
	13	coed	159	300	syn	30	2	60	8	8	1.0	16	50%	8	0%	8	1.0										24 Sept-15 Nov		
Lakeridge Youth Footb	7-9	coed	159	300	syn	30	2	60	8	8	1.0	16	50%	8	0%	8	1.0										24 Sept-15 Nov		
	10-11	coed	159	300	syn	30	4	120	8	8	1.0	32	50%	16	0%	16	2.0										24 Sept-15 Nov		
	12-13	coed	159	300	syn	30	2	60	8	8	1.0	16	50%	8	0%	8	1.0										24 Sept-15 Nov		
	13	coed	159	300	syn	30	2	60	8	8	1.0	16	50%	8	0%	8	1.0										24 Sept-15 Nov		
Subtotal football/rugby								20	600			160		80		80													
TOTAL								298	6507			3132		1257		1287													

Soccer/football/lacrosse

Game requirements by size fit

	Age	Sex	Width	Length	Surf.	weeks																			
						2000		Jan		Feb		Mar		Apr		May			Jun						
						Jan	1	2	2	1	2	2	1	1	2	1	2	3	1	2	2	1	1	2	
Skyhawks Youth Camp	7-14	coed	na	na																					
School of Champions	7-15																								
Chichina Soccer	7-15																						0	0	
Willamette Soccer	7-15																								
Willamette Soccer	7-15																								
Willamette Soccer	7-15																								
Willamette Soccer	7-15																								0
Subtotal youth camps						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Soccer Rec League	5-6	coed	50	150	grs																				
Soccer Classic League	5-6	coed	50	150	grs																				
Subtotal youth camps						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Soccer Rec League	7-8	coed	120	150	grs																				
Soccer Classic League	7-8	coed	120	150	grs								6	6	6	6	6	6	6	6	6	6	6	6	6
Subtotal youth camps						0	0	0	0	0	0	0	6	6	6	6	6	6	6	6	6	6	6	6	6
Soccer Rec League	9-10	coed	159	300	grs																				
Soccer Rec League	11-12	coed	159	300	grs																				
Soccer Rec League	13-14	coed	159	300	grs																				
Soccer Classic League	9-10	coed	159	300	grs								2	2	2	2	2	2	2	2	2	2	2	2	2
Soccer Classic League	11-12	coed	159	300	grs								2	2	2	2	2	2	2	2	2	2	2	2	2
Soccer Classic League	13-14	coed	159	300	grs								2	2	2	2	2	2	2	2	2	2	2	2	2
Subtotal adult leagues						0	0	0	0	0	0	0	6	6	6	6	6	6	6	6	6	6	6	6	6
City League Adult-spring	>35	coed	180	330	allw												4	4	4	4	4	4	4	4	
City League Adult-fall	>35	coed	180	330	allw																				
City League Coed-spring	>17	coed	180	360	allw								4	4	4	4	4	4	4	4	4	4	4	4	
City League Coed-fall	>17	coed	180	360	allw																				
Subtotal adult leagues						0	0	0	0	0	0	0	4	4	4	4	8	8	8	8	8	8	8	8	8
Lake Oswego HS Soccer	15-18	girls	195	330																					
Lake Oswego HS Soccer	15-18	boys	195	330																					
Lakeridge HS Soccer	15-18	girls	195	330																					
Lakeridge HS Soccer	15-18	boys	195	330																					
Westside CHS Soccer	15-18	girls	195	330																					
Westside CHS Soccer	15-18	boys	195	330																					
Subtotal adult leagues						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lake Oswego HS Lacro	14-18	girls											1	1	1	1	1	1	1	1	1	1	1	1	
Lake Oswego HS Lacro	14-18	boys											1	1	1	1	1	1	1	1	1	1	1	1	
Lakeridge HS Lacrosse	14-18	girls											0	0	0	0	0	0	0	0	0	0	0	0	
Lakeridge HS Lacrosse	14-18	boys											1	1	1	1	1	1	1	1	1	1	1	1	
Subtotal adult leagues						0	0	0	0	0	0	0	4	4	4	4	4	4	4	4	4	4	4	4	
Lake Oswego HS Footb	15-18	boys	159	300	syn																				
Lakeridge HS Football	15-18	boys	159	300	syn																				
Subtotal adult leagues						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lake Oswego Youth Foot	7-9	coed	159	300	syn																				
	10-11	coed	159	300	syn																				
	12-13	coed	159	300	syn																				
	13	coed	159	300	syn																				
Lakeridge Youth Footba	7-9	coed	159	300	syn																				
	10-11	coed	159	300	syn																				
	12-13	coed	159	300	syn																				
	13	coed	159	300	syn																				
Subtotal football/rugby						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL						0	0	0	0	0	0	0	4	22	22	22	25	25	25	25	25	25	25	25	25

Soccer/football/lacrosse

Practice requirements by size field

	Age	Sex	Width	Length	Surface	Players/team	Number of teams	Total number of players	Number pre-season weeks	Number of practices/week/team	Number of pre-season practices/team all weeks	Number of practice slots/preseason week all teams	Pre-season dates	Season weeks	Number of practices/week/team	Number of season practices	Total practices/season	Season dates
Skyhawks Youth Camp	7-14	coed	na	na				279	0	0				3	0	0	0	8 July-23 Aug
School of Champions	7-15							230	0	0				3	0	0	0	31 July-18 Aug
Chichina Soccer	7-15							45	0	0				2	0	0	0	19-23 June
Willamette Soccer	7-15							42	0	0				1	0	0	0	24-28 July
Willamette Soccer	7-15							50	0	0				1	0	0	0	7-11 Aug
Willamette Soccer	7-15							65	0	0				1	0	0	0	14-18 Aug
Willamette Soccer	7-15							100	0	0				2	0	0	0	24-28 July, 31-
Subtotal youth camps									0	811	0	0	0	0	0	0	0	0
Soccer Rec League	5-6	coed	50	150	grs			0	2	3	6	0	23 Jul-20 Aug	10	1.8	18	0	20 Aug-29 Oct
Soccer Classic League	6-7	coed	50	150	grs			0	2	3	6	0	20 Feb-19 Mar	10	1.8	18	0	19 Mar-28 May
									0	0	6	11	0	0	0	0	0	
Soccer Rec League	7-8	coed	120	150	grs	18	38	684	2	3	6	106	23 Jul-20 Aug	10	1.8	18	67	20 Aug-29 Oct
Soccer Classic League	7-8	coed	120	150	grs	18	20	360	2	3	6	56	20 Feb-19 Mar	10	1.8	18	35	19 Mar-28 May
									58	1044	6	11	162	0	0	0	102	
Soccer Rec League	9-10	coed	159	300	grs	18	50	900	2	3	6	140	23 Jul-20 Aug	10	1.8	18	88	20 Aug-29 Oct
Soccer Rec League	11-12	coed	159	300	grs	18	46	828	2	3	6	129	23 Jul-20 Aug	11	1.8	19	81	20 Aug-29 Oct
Soccer Rec League	13-14	coed	159	300	grs	18	32	576	2	3	6	90	23 Jul-20 Aug	11	1.8	19	56	20 Aug-29 Oct
Soccer Classic League	9-10	coed	159	300	grs	18	6	108	2	3	6	17	20 Feb-19 Mar	10	1.8	18	11	19 Mar-28 May
Soccer Classic League	11-12	coed	159	300	grs	18	7	126	2	3	6	20	20 Feb-19 Mar	10	1.8	18	12	19 Mar-28 May
Soccer Classic League	13-14	coed	159	300	grs	18	7	126	2	3	6	20	20 Feb-19 Mar	10	1.8	18	12	19 Mar-28 May
									148	2664	17	34	414	0	0	0	259	
City League Adult-spring	>35	coed	180	330	allw	15	9	135	0	0	0	0	no practice	12	0.0	0	0	5 Apr-21 June
City League-fall	>35	coed	180	330	allw	15	9	135	0	0	0	0	no practice	12	0.0	0	0	21 Sep-6 Dec
City League Coed-spring	>17	coed	180	360	allw	15	12	180	0	0	0	0	no practice	16	0.0	0	0	11 Mar-22 Jun
City League Coed-fall	>17	coed	180	360	allw	15	12	180	0	0	0	0	no practice	11	0.0	0	0	10 Sep-19 Nov
Subtotal adult leagues									42	630	0	0	0	0	0	0	0	0
Lake Oswego HS Soccer	14-18	girls	195	330		22	3	66	2	5	10	15	12 Aug-25 Aug	13	3.5	46	11	26 Aug-20 Nov
Lake Oswego HS Soccer	14-18	boys	195	330		22	3	66	2	5	10	15	12 Aug-25 Aug	13	3.5	46	11	26 Aug-20 Nov
Lakeridge HS Soccer	14-18	girls	195	330		22	3	66	2	5	10	15	12 Aug-25 Aug	13	3.5	46	11	26 Aug-20 Nov
Lakeridge HS Soccer	14-18	boys	195	330		22	3	66	2	5	10	15	12 Aug-25 Aug	13	3.5	46	11	26 Aug-20 Nov
Westside CHS Soccer	14-18	girls	195	330		22	2	44	2	5	10	10	12 Aug-25 Aug	13	3.5	46	7	26 Aug-20 Nov
Westside CHS Soccer	14-18	boys	195	330		22	2	44	2	5	10	10	12 Aug-25 Aug	13	3.5	46	7	26 Aug-20 Nov
Subtotal school teams									16	352	30	60	80	0	0	0	56	
Lake Oswego HS Lacrosse	14-18	girls				23	2	46	2	5	10	10	5 Mar-18 Mar	10	3.5	35	7	19 Mar-21 May
Lake Oswego HS Lacrosse	14-18	boys				26	2	52	2	5	10	10	5 Mar-18 Mar	10	3.5	35	7	19 Mar-21 May
Lakeridge HS Lacrosse	14-18	girls				23	2	46	2	5	10	10	5 Mar-18 Mar	10	3.5	35	7	19 Mar-21 May
Lakeridge HS Lacrosse	14-18	boys				26	2	52	2	5	10	10	5 Mar-18 Mar	10	3.5	35	7	19 Mar-21 May
									8	196	20	40	40	0	0	0	28	
Lake Oswego HS football	14-18	boys	159	300	syn	35	3	105	2	5	10	15	12 Aug-25 Aug	13	3.5	46	11	26 Aug-20 Nov
Lakeridge HS Football	14-18	boys	159	300	syn	35	3	105	2	5	10	15	12 Aug-25 Aug	13	3.5	46	11	26 Aug-20 Nov
									6	210	10	20	30	0	0	0	21	
Lake Oswego Youth Football	7-9	coed	159	300	syn	30	2	60	3	4	12	8	1-23 Sept	8	4.0	32	8	24 Sept-15 No
	10-11	coed	159	300	syn	30	4	120	3	4	12	16	1-23 Sept	8	4.0	32	16	24 Sept-15 No
	12-13	coed	159	300	syn	30	2	60	3	4	12	8	1-23 Sept	8	4.0	32	8	24 Sept-15 No
	13	coed	159	300	syn	30	2	60	3	4	12	8	1-23 Sept	8	4.0	32	8	24 Sept-15 No
Lakeridge Youth Football	7-9	coed	159	300	syn	30	2	60	3	4	12	8	1-23 Sept	8	4.0	32	8	24 Sept-15 No
	10-11	coed	159	300	syn	30	4	120	3	4	12	16	1-23 Sept	8	4.0	32	16	24 Sept-15 No
	12-13	coed	159	300	syn	30	2	60	3	4	12	8	1-23 Sept	8	4.0	32	8	24 Sept-15 No
	13	coed	159	300	syn	30	2	60	3	4	12	8	1-23 Sept	8	4.0	32	8	24 Sept-15 No
Subtotal football/rugby									20	600	32	96	80	0	0	0	80	
TOTAL									150	3843	103	238	392	0	0	0	287	

Soccer/football/lacrosse
Practice requirements by size f

	Age	Sex	Width	Length	Surf.	Number of Practices/Team 2000																														
						January		Feb		Mar		Apr			May			Jun		Jul																
						1	2	1	2	1	1	2	1	2	3	1	2	2	1	1	2	1	2	1	2	1	2									
						2	9	6	3	9	6	3	0	7	5	2	9	6	2	9	6	3	0	7	4	1	8	4	1	8	5	2	9	6	3	
Skyhawks Youth Camp	7-14	coed	na	na																														0	0	0
School of Champions	7-15																																			
Chichina Soccer	7-15																																			
Willamette Soccer	7-15																																			
Willamette Soccer	7-15																																			
Willamette Soccer	7-15																																			
Willamette Soccer	7-15																																			
Subtotal youth camps						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Soccer Rec League	5-6	coed	50	150	grs																															
Soccer Classic League	6-7	coed	50	150	grs																															
Soccer Rec League	7-8	coed	120	150	grs																															
Soccer Classic League	7-8	coed	120	150	grs																															
Soccer Rec League	9-10	coed	159	300	grs																															
Soccer Rec League	11-12	coed	159	300	grs																															
Soccer Rec League	13-14	coed	159	300	grs																															
Soccer Classic League	9-10	coed	159	300	grs																															
Soccer Classic League	11-12	coed	159	300	grs																															
Soccer Classic League	13-14	coed	159	300	grs																															
City League Adult-sprin	>35	coed	180	330	allw																															
City League-fall	>35	coed	180	330	allw																															
City League Coed-sprin	>17	coed	180	360	allw																															
City League Coed-fall	>17	coed	180	360	allw																															
Subtotal adult leagues						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lake Oswego HS Soccer	14-18	girls	195	330																																
Lake Oswego HS Soccer	14-18	boys	195	330																																
Lakeridge HS Soccer	14-18	girls	195	330																																
Lakeridge HS Soccer	14-18	boys	195	330																																
Westside CHS Soccer	14-18	girls	195	330																																
Westside CHS Soccer	14-18	boys	195	330																																
Subtotal school teams						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lake Oswego HS Lacro	14-18	girls																																		
Lake Oswego HS Lacro	14-18	boys																																		
Lakeridge HS Lacrosse	14-18	girls																																		
Lakeridge HS Lacrosse	14-18	boys																																		
Lake Oswego HS footba	14-18	boys	159	300	syn																															
Lakeridge HS Football	14-18	boys	159	300	syn																															
Lake Oswego Youth Fo	7-9	coed	159	300	syn																															
	10-11	coed	159	300	syn																															
	12-13	coed	159	300	syn																															
	13	coed	159	300	syn																															
Lakeridge Youth Footba	7-9	coed	159	300	syn																															
	10-11	coed	159	300	syn																															
	12-13	coed	159	300	syn																															
	13	coed	159	300	syn																															
Subtotal football/rugby						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Soccer/football/lacrosse

Field condition/capabilities/utilizations

		<u>Existing conditions</u>		Width dimensions		Length dimensions		Surface materials (synthetic/grass/sand)		Nbr Qty Flds
		Lights						Quality		
		Multiuse								
George Rogers Park	Parks	no	yes	210	330	grass	good	1		
Pilkington Park	Parks	no	no	210	330	grass	good	1		
Westlake Park	Parks	no	yes	210	330	grass	good	1		
Subtotal Parks									3	
Bryant ES #1	LOSD	no	no	210	330	grass	good	1		
Bryant ES #2	LOSD	no	no	210	330	grass	good	1		w/1999 bond improvements
Forest Hills ES	LOSD	no	no	150	225	grass	poor	1		
Hallinan ES	LOSD	no	no	210	330	grass	good	1		
Lake Grove ES	LOSD	no	no	150	310	grass	poor	1		
Lake Oswego HS	LOSD	no	yes	210	330	syneth	good	1		
Lake Oswego JH #1	LOSD	no	yes	150	210	grass	good	1		
Lake Oswego JH #2	LOSD	no	yes	150	210	grass	good	1		
Lakeridge HS	LOSD	no	yes	210	330	syneth	good	1		
Oak Creek ES	LOSD	no	no	210	330	grass	average	1		
Palisades ES #1	LOSD	no	no	210	330	grass	poor	1		
Palisades ES #2	LOSD	no	no	120	180	grass	poor	1		
Rivergrove ES	LOSD	no	no	210	330	grass	average	1		
Uplands ES #1	LOSD	no	no	90	120	grass	good	1		
Uplands ES #2	LOSD	no	no	150	180	grass	good	1		
Waluga JH #1	LOSD	no	yes	150	225	grass	good	1		
Waluga JH #2	LOSD	no	yes	210	330	grass	good	1		
Westridge ES	LOSD	no	no	210	330	grass	good	1		
Subtotal BSD									18	
Portland CC	OR	no								
Maryhurst College	Prvt									
Lewis & Clark	Prvt	no								
Subtotal others									0	
TOTAL									21	

Good - artificial turf, grass or all-weather surface fields in good condition with few bare spots or weeds. Goal posts or backstops are in good contioin. May include site amenities such as lights, restrooms, storage, dug-outs, or large bleachers. Fields are usually irrigated and on-going maintenance is evident.

Average - soil, and/or rubber mix fields or grass fields with uneven surface or with some ruts, stones, etc.

May show evidence of poor drainage. May include additional amenities such as bleachers or water fountains.

May or may not be irrigated. Maintenance is limited and some renovation is needed to maximize capacity.

Poor - field has cinder or cintrex surface or contains numerous ruts, rocks, and/or weeds. Field is not irrigated.

Amenities limited to backstops or goal posts with may be too small and/or in poor condition. Fields may have severe drainage problems, uneven surfaces or slope in one direction. Complete renovation is needed. Receives minimum maintenance under present conditions.

Soccer/football/rugby

Existing field scheduling by size

	Age	Sex	Width	Length	Surface	Monday-Friday			Saturday			Sunday			Total/ week
	Starting time					Ending time	Hours per day	Starting time	Ending time	Hours	Starting time	Ending time	Hours		
Lake Oswego Soccer Ca	3.5-6	coed	na	na											0
Skyhawks Youth Camp	7-14	coed	na	na											0
School of Champions	7-15														0
Chichina Soccer	7-15														0
Willamette Soccer	7-15														0
Willamette Soccer	7-15														0
Willamette Soccer	7-15														0
Willamette Soccer	7-15														0
Subtotal youth camps															
Soccer Rec League	5-6	coed	50	150	grs							9:00	4:00	7.0	7
	7-8	coed	120	150	grs							9:00	4:00	7.0	7
	9-10	coed	159	300	grs							9:00	4:00	7.0	7
	11-12	coed	159	300	grs							9:00	4:00	7.0	7
	13-14	coed	159	300	grs							9:00	4:00	7.0	7
Soccer Classic League	5-6	coed	50	150	grs							9:00	4:00	7.0	7
	7-8	coed	120	150	grs							9:00	4:00	7.0	7
	9-10	coed	159	300	grs							9:00	4:00	7.0	7
	11-12	coed	159	300	grs							9:00	4:00	7.0	7
	13-14	coed	159	300	grs							9:00	4:00	7.0	7
Subtotal youth leagues															
Lake Oswego HS Soccer	15-18	girls	195	330		3:00	10:00	7.0							7
Lake Oswego HS Soccer	15-18	boys	195	330		3:00	10:00	7.0							7
Lake Oswego HS Lacros	14-18	girls				3:00	10:00	7.0							7
Lake Oswego HS Lacros	14-18	boys				3:00	10:00	7.0							7
Lake Oswego HS Footba	15-18	boys	159	300	syn	3:00	10:00	7.0							7
Lakeridge HS Soccer	15-18	girls	195	330		3:00	10:00	7.0							7
Lakeridge HS Soccer	15-18	boys	195	330		3:00	10:00	7.0							7
Lakeridge HS Lacrosse	14-18	girls				3:00	10:00	7.0							7
Lakeridge HS Lacrosse	14-18	boys				3:00	10:00	7.0							7
Lakeridge HS Football	15-18	boys	159	300	syn	3:00	10:00	7.0							7
Westside CHS Soccer	15-18	girls	195	330		3:00	10:00	7.0							7
Westside CHS Soccer	15-18	boys	195	330		3:00	10:00	7.0							7
Subtotal school teams															
City League Adult-spring	>35	coed	180	330	allw							4:00	7:00	3.0	3
City League Adult-fall	>35	coed	180	330	allw							4:00	7:00	3.0	3
City League Coed-spring	>17	coed	180	360	allw	6:30	9:30	3.0							3
City League Coed-fall	>17	coed	180	360	allw	6:30	9:30	3.0							3
Subtotal adult leagues															
Lake Oswego Youth Foo	7-9	coed	159	300	syn	4:30	8:00	3.5	9:00	10:00	13.0				17
	10-11	coed	159	300	syn	4:30	8:00	3.5	9:00	10:00	13.0				17
	12-13	coed	159	300	syn	4:30	8:00	3.5	9:00	10:00	13.0				17
	13	coed	159	300	turf	4:30	8:00	3.5	9:00	10:00	13.0				17
Lakeridge Youth Football	7-9	coed	159	300	syn	4:30	8:00	3.5	9:00	10:00	13.0				17
	10-11	coed	159	300	syn	4:30	8:00	3.5	9:00	10:00	13.0				17
	12-13	coed	159	300	syn	4:30	8:00	3.5	9:00	10:00	13.0				17
	13	coed	159	300	turf	4:30	8:00	3.5	9:00	10:00	13.0				17

* Game times on Friday.

Proposed level-of-service (PLOS) additions - by site

5 July 2001

prty	site	activity	units	PLOS facility addtn	Facility cost /unit	PLOS funding required	LO funds share	LO funding required	
	Adult Community Center	1 a picnic tables w/o shelter	table	10	\$7,609	\$76,090	100%	\$76,090	
		1 b picnic shelters-group	shelter	1	\$10,694	\$10,694	100%	\$10,694	
		6 b park trail-dirt	dirt	0.8	\$19,661	\$15,729	100%	\$15,729	
		12 b playground-uncovered	plygrnd	1	\$62,900	\$62,900	100%	\$62,900	
		17 c volleyball-sand	court	1	\$5,000	\$5,000	100%	\$5,000	\$170,413
	Bryant Woods Park-Canal Acr	6 b park trail-dirt	dirt	0.8	\$19,661	\$15,729	100%	\$15,729	
		9 c bicycle trailheads	bkng sp	1	included	\$0	100%	\$0	\$15,729
	Cooks Butte Park	1 a picnic tables w/o shelter	table	6	\$7,609	\$45,654	100%	\$45,654	\$45,654
	Cornell Park	1 a picnic tables w/o shelter	table	1	\$7,609	\$7,609	100%	\$7,609	
		12 b playground-uncovered	plygrnd	1	\$62,900	\$62,900	100%	\$62,900	\$70,509
	Forest Hills ES #1, #2	22 d ballfield-250+dirt/unlighte	ppgrade	2	\$87,500	\$175,000	100%	\$175,000	\$175,000
	Freepons Park	40 e restrooms-permanent	fixture	6	\$17,392	\$104,349	100%	\$104,349	\$104,349
	George Rogers Park	1 a picnic tables w/o shelter	table	10	\$7,609	\$76,090	100%	\$76,090	
		6 a park trail-asphalt	mile	0.8	\$133,216	\$106,573	100%	\$106,573	
		17 c volleyball-sand	court	2	\$5,000	\$10,000	100%	\$10,000	\$192,663
	Hallinan Park	1 a picnic tables w/o shelter	table	2	\$7,609	\$15,218	100%	\$15,218	
		12 b playground-uncovered	plygrnd	1	\$62,900	\$62,900	100%	\$62,900	\$78,118
	Iron Mountain Park	9 c bicycle trailheads	bkng sp	1	included	\$0	100%	\$0	
		11 a equestrian trail	mile	0.8	\$5,517	\$4,414	100%	\$4,414	
		40 e restrooms-permanent	fixture	6	\$17,392	\$104,349	100%	\$104,349	\$108,763
	Lake Grove ES	20 b soccer-youth	ppgrade	1	\$70,711	\$70,711	100%	\$70,711	\$70,711
	Lake Grove Swim Park	1 b picnic shelters-group	shelter	2	\$10,694	\$21,388	100%	\$21,388	\$21,388
	Lake Oswego Cmty Cntr	29 arts/crafts room	sq ft	4,000	\$270	\$1,080,000	100%	\$1,080,000	
		30 class/meeting room	sq ft	2,000	\$250	\$500,000	100%	\$500,000	
		31 auditorium	sq ft	4,000	\$400	\$1,600,000	100%	\$1,600,000	
		32 kitchen facilities	sq ft	800	\$400	\$320,000	100%	\$320,000	
		34 a day care/nursery	sq ft	1,200	\$250	\$300,000	100%	\$300,000	
		34 b cmty teen	sq ft	2,000	\$250	\$500,000	100%	\$500,000	\$4,300,000
	Lake Oswego HS - addn	25 a swimming pool-indoor	sq ft	2,000	\$400	\$800,000	100%	\$800,000	
	Lake Oswego HS - upgrade	25 a swimming pool-indoor	ppgrade	0	\$400	\$0	100%	\$600,000	
	Lake Oswego HS - use agreeem	26 indoor gymnasium	sq ft	0	\$300	\$0	0%	\$0	\$1,400,000
	Lakeridge HS - use agreemen	26 indoor gymnasium	sq ft	0	\$300	\$0	0%	\$0	
	Lakeridge HS #1,#2 - lights	22 a ballfield-300 grss/lighted	ppgrade	0	\$403,612	\$403,612	100%	\$403,612	\$403,612
	Lake Oswego JH	14 a skateboard court	court	1	\$100,000	\$100,000	100%	\$100,000	\$100,000
	Lake Oswego Rctn Cntr	5 rctn centers/pools	acres	2.0	\$400,000	\$800,000	100%	\$800,000	
		26 indoor gymnasium	sq ft	10,000	\$300	\$3,000,000	100%	\$3,000,000	
		27 physical conditioning	sq ft	4,000	\$250	\$1,000,000	100%	\$1,000,000	\$4,800,000
	Lake Oswego Swim Center	25 a swimming pool-indoor	sq ft	4,000	\$400	\$1,600,000	100%	\$1,600,000	\$1,600,000
	Lake Oswego Swim Park	1 b picnic shelters-group	shelter	2	\$10,694	\$21,388	100%	\$21,388	\$21,388
	Luscher Farm	1 a picnic tables w/o shelter	table	20	\$7,609	\$152,180	100%	\$152,180	
		1 b picnic shelters-group	shelter	2	\$10,694	\$21,388	100%	\$21,388	
		9 c bicycle trailheads	bkng sp	2	included	\$0	100%	\$0	
		11 a equestrian trail	mile	1.0	\$5,517	\$5,517	100%	\$5,517	
		11 b equestrian trailhead	bkng sp	1	included	\$0	100%	\$0	
		12 b playground-uncovered	plygrnd	3	\$62,900	\$188,700	100%	\$188,700	
		17 c volleyball-sand	court	2	\$5,000	\$10,000	100%	\$10,000	
		36 a nature center	sq ft	5,000	\$150	\$750,000	100%	\$750,000	
		36 b museum	sq ft	2,400	\$300	\$720,000	100%	\$720,000	
		39 amphitheater	sq ft	3,000	\$130	\$390,000	100%	\$390,000	
		40 a parks admin offices	sq ft	1,200	\$250	\$300,000	100%	\$300,000	
		40 b parks maintenance fclties	sq ft	2,600	\$120	\$312,000	100%	\$312,000	
		40 e restrooms-permanent	fixture	24	\$17,392	\$417,396	100%	\$417,396	
		6 b park trail-dirt	dirt	3.3	\$19,661	\$64,881	100%	\$64,881	
	Luscher Farm-Cooks Butte	11 a equestrian trail	mile	1.6	\$5,517	\$8,827	100%	\$8,827	
	Luscher Farm-River Run	9 a bicycling trail-asphalt	mile	2.5	\$116,588	\$291,470	100%	\$291,470	\$3,632,359
	Marylhurst - use agreement	20 a soccer-regulation	grss/lts	1	\$583,480	\$583,480	0%	\$0	
		22 a ballfield-300 grss/lighted	rs/lghts	1	\$403,612	\$403,612	0%	\$0	
		26 indoor gymnasium	sq ft	0	\$300	\$0	0%	\$0	\$0
	Millennium Park	6 a park trail-asphalt	mile	1.0	\$133,216	\$133,216	100%	\$133,216	\$133,216
	Palisades ES #1, #2	22 d ballfield-250+dirt/unlighte	ppgrade	2	\$87,500	\$175,000	100%	\$175,000	\$175,000
	PCC - use agreement	20 a soccer-regulation	grss/lts	1	\$583,480	\$583,480	0%	\$0	
		22 a ballfield-300 grss/lighted	rs/lghts	1	\$403,612	\$403,612	0%	\$0	
		25 a swimming pool-indoor	sq ft	3,000	\$400	\$1,200,000	0%	\$0	
		26 indoor gymnasium	sq ft	0	\$300	\$0	0%	\$0	\$0
	Piikington Park	1 b picnic shelters-group	shelter	1	\$10,694	\$10,694	100%	\$10,694	

Proposed level-of-service (PLOS) additions - by site

5 July 2001

prty	site	activity	units	PLOS facility addtn	Facility cost /unit	PLOS funding required	LO funds share	LO funding required	
		17 c volleyball-sand	court	1	\$5,000	\$5,000	100%	\$5,000	
		40 e restrooms-permanent	fixture	6	\$17,392	\$104,349	100%	\$104,349	\$120,043
	Red Fox Hills Park #1	1 a picnic tables w/o shelter	table	1	\$7,609	\$7,609	100%	\$7,609	
	Red Fox Hills Park #3	1 a picnic tables w/o shelter	table	1	\$7,609	\$7,609	100%	\$7,609	\$15,218
	River Run Park	1 a picnic tables w/o shelter	table	4	\$7,609	\$30,436	100%	\$30,436	
		3 b boat launch-cartop	each	1	\$5,000	\$5,000	100%	\$5,000	
		12 b playground-uncovered	plygrmd	1	\$62,900	\$62,900	100%	\$62,900	
		40 e restrooms-permanent	fixture	6	\$17,392	\$104,349	100%	\$104,349	\$202,685
	Riverfront Trail	9 a bicycling trail-asphalt	mile	1.5	\$116,588	\$174,882	100%	\$174,882	\$174,882
	Roehr Park Addn	1 a picnic tables w/o shelter	table	12	\$7,609	\$91,308	100%	\$91,308	
		1 b picnic shelters-group	shelter	1	\$10,694	\$10,694	100%	\$10,694	
		2 resource activities	acres	10.0	\$75,000	\$750,000	100%	\$750,000	
		3 linear trails	acres	2.0	\$75,000	\$150,000	100%	\$150,000	
	Roehr Park Addn	3 a boat launch ramps	each	2	\$25,000	\$50,000	100%	\$50,000	
		3 b boat launch-cartop	each	1	\$5,000	\$5,000	100%	\$5,000	
		3 c floating platforms	sq ft	2000	\$32	\$64,000	100%	\$64,000	
		3 d docks/piers	sq ft	1000	\$50	\$50,000	100%	\$50,000	
		3 e boat moorage slips	each	4	\$10,000	\$40,000	100%	\$40,000	
		6 a park trail-asphalt	mile	1.0	\$133,216	\$133,216	100%	\$133,216	
		9 c bicycle trailheads	pkgng sp	1	included	\$0	100%	\$0	
		12 b playground-uncovered	plygrmd	1	\$62,900	\$62,900	100%	\$62,900	
		17 c volleyball-sand	court	1	\$5,000	\$5,000	100%	\$5,000	
		40 e restrooms-permanent	fixture	8	\$17,392	\$139,132	100%	\$139,132	\$1,551,250
	Rossman Park	17 c volleyball-sand	court	1	\$5,000	\$5,000	100%	\$5,000	\$5,000
	Site to be determined	20 a soccer-regulation	grss/fts	5	\$583,480	\$2,917,400	100%	\$2,917,400	
		22 a ballfield-300 grss/lighted	rs/lghts	1	\$403,612	\$403,612	100%	\$403,612	
		22 c ballfield-250+dir/lighted	field	1	\$250,000	\$250,000	100%	\$250,000	\$3,571,012
	South Shore Natural Area	1 a picnic tables w/o shelter	table	2	\$7,609	\$15,218	100%	\$15,218	\$15,218
	Southern Pacific Rail Trail	9 a bicycling trail-asphalt	mile	5.0	\$116,588	\$582,940	100%	\$582,940	\$582,940
	Southwood Park	1 a picnic tables w/o shelter	table	4	\$7,609	\$30,436	100%	\$30,436	
	Southwood Park	12 b playground-uncovered	plygrmd	1	\$62,900	\$62,900	100%	\$62,900	\$93,336
	Springbrook Park	1 a picnic tables w/o shelter	table	10	\$7,609	\$76,090	100%	\$76,090	
		1 b picnic shelters-group	shelter	1	\$10,694	\$10,694	100%	\$10,694	
		6 b park trail-dirt	dirt	2.3	\$19,661	\$45,220	100%	\$45,220	
		12 b playground-uncovered	plygrmd	1	\$62,900	\$62,900	100%	\$62,900	
		17 c volleyball-sand	court	1	\$5,000	\$5,000	100%	\$5,000	
		40 e restrooms-permanent	fixture	8	\$17,392	\$139,132	100%	\$139,132	\$339,036
	Waluga JH	6 a park trail-asphalt	mile	1.0	\$133,216	\$133,216	100%	\$133,216	
		14 a skateboard court	court	1	\$100,000	\$100,000	100%	\$100,000	\$233,216
	Waluga Park	6 a park trail-asphalt	mile	1.0	\$133,216	\$133,216	100%	\$133,216	
	West Waluga Park	17 c volleyball-sand	court	1	\$5,000	\$5,000	100%	\$5,000	
	East Waluga Park	17 c volleyball-sand	court	1	\$5,000	\$5,000	100%	\$5,000	\$143,216
	Westlake Park	1 b picnic shelters-group	shelter	1	\$10,694	\$10,694	100%	\$10,694	
		6 a park trail-asphalt	mile	0.8	\$133,216	\$106,573	100%	\$106,573	
		17 c volleyball-sand	court	1	\$5,000	\$5,000	100%	\$5,000	\$122,267
	Willamette Shore Trolley	6 special use facilities	acres	2.0	\$200,000	\$400,000	100%	\$400,000	
		36 b museum	sq ft	5,000	\$300	\$1,500,000	100%	\$1,500,000	\$1,900,000
	Hallinan Loop	7 a day hiking trail-asphalt	mile	2.3	\$164,623	\$370,402	100%	\$370,402	
	Luscher Farm-Cooks Butte	7 a day hiking trail-asphalt	mile	3.0	\$164,623	\$493,869	100%	\$493,869	
	Kerr Parkway-Kruse Way Loop	7 a day hiking trail-asphalt	mile	2.8	\$164,623	\$452,713	100%	\$452,713	
	Lakewood Bay Loop	7 a day hiking trail-asphalt	mile	1.0	\$164,623	\$164,623	100%	\$164,623	
	Mountain Park Loop	7 a day hiking trail-asphalt	mile	5.5	\$164,623	\$905,427	100%	\$905,427	
	Old Town Loop	7 a day hiking trail-asphalt	mile	0.5	\$164,623	\$82,312	100%	\$82,312	
	Pilkington Loop	7 a day hiking trail-asphalt	mile	4.8	\$164,623	\$781,959	100%	\$781,959	
	Riverfront Trail	7 a day hiking trail-asphalt	mile	2.5	\$164,623	\$411,558	100%	\$411,558	\$3,662,862
	A Avenue-3rd to 10th	7 a streetscape	mile	0.4	\$1,000,000	\$400,000	100%	\$400,000	
	State St-Terwilger to McVey	7 a streetscape	mile	1.0	\$1,000,000	\$1,000,000	100%	\$1,000,000	\$1,400,000
	10th Street	7 a gateways	each	1	\$50,000	\$50,000	100%	\$50,000	
	Boones Ferry Rd-Condo Cour	7 a gateways	each	1	\$50,000	\$50,000	100%	\$50,000	
	Jefferson Parkway-Krause Dr	7 a gateways	each	1	\$50,000	\$50,000	100%	\$50,000	
	Kerr Parkway-Stephenson St	7 a gateways	each	1	\$50,000	\$50,000	100%	\$50,000	
	Lower Boones Ferry-SPRR	7 a gateways	each	1	\$50,000	\$50,000	100%	\$50,000	
	McVey Ave	7 a gateways	each	1	\$50,000	\$50,000	100%	\$50,000	
	Stafford Rd-Rosemont Rd	7 a gateways	each	1	\$50,000	\$50,000	100%	\$50,000	
	Willamette Highway-Arbor Rd	7 a gateways	each	1	\$50,000	\$50,000	100%	\$50,000	\$400,000

Proposed level-of-service (PLOS) additions - by site

5 July 2001

prty	site	activity	units	PLOS facility addtn	Facility cost /unit	PLOS funding required	LO funds share	LO funding required	
	Boones Ferry Rd-Kruse Way	7 a gateway-crossroads	each	1	\$75,000	\$75,000	100%	\$75,000	
	Country Club Rd-A Avenue	7 a gateway-crossroads	each	1	\$75,000	\$75,000	100%	\$75,000	
	Country Club Rd-Boones Ferry	7 a gateway-crossroads	each	1	\$75,000	\$75,000	100%	\$75,000	\$225,000
	10th St	10 a bicycling shoulder-market	mile	0.6	\$158,616	\$95,170	100%	\$95,170	
	Carman Drive-Fosberg Rd	10 a bicycling shoulder-market	mile	1.0	\$158,616	\$158,616	100%	\$158,616	
	Childs Rd	10 a bicycling shoulder-market	mile	3.0	\$158,616	\$475,848	100%	\$475,848	
	Haines Rd-PCC	10 a bicycling shoulder-market	mile	0.7	\$158,616	\$111,031	100%	\$111,031	
	Kruse Oaks-62nd Ave-Lessor	10 a bicycling shoulder-market	mile	1.0	\$158,616	\$158,616	100%	\$158,616	
	Lesser Rd-Capitol Highway	10 a bicycling shoulder-market	mile	0.4	\$158,616	\$63,446	100%	\$63,446	
	McEwan Rd-65th Ave	10 a bicycling shoulder-market	mile	0.5	\$158,616	\$79,308	100%	\$79,308	
	McEwan Rd-Lower Boones Ferry	10 a bicycling shoulder-market	mile	0.5	\$158,616	\$79,308	100%	\$79,308	
	Meadows Rd	10 a bicycling shoulder-market	mile	1.0	\$158,616	\$158,616	100%	\$158,616	
	North Shore Rd-Middle Crest	10 a bicycling shoulder-market	mile	1.0	\$158,616	\$158,616	100%	\$158,616	
	G Avenue	10 a bicycling shoulder-market	mile	0.6	\$158,616	\$95,170	100%	\$95,170	
	Pilkington Rd	10 a bicycling shoulder-market	mile	1.3	\$158,616	\$206,201	100%	\$206,201	\$1,839,946
Total impact for land and facilities				59,499		\$36,790,182		\$34,215,998	\$34,215,998

Properties with park, recreation, and open space uses

Local/regional park lands in acres	Conservancy parks - wildlife/greenway/agriculture Resource activity parks - swim/boat/fish/camp Linear parks/trails/facilities Recreational parks - picnic/playgrounds/fields/courts Community centers/pools/facilities Special use facilities - amphitheater/streetscape Support facilities/yards/buildings							total
1 Freepons Park	2.9	-	-	3.1	-	-	-	6.0
2 George Rogers Park	11.1	6.0	1.0	6.0	-	-	-	24.1
3 Greentree Park	-	-	-	0.4	-	-	-	0.4
4 Millennium Park	-	-	-	-	-	2.7	-	2.7
5 Pilkington Park	4.0	-	-	1.0	-	-	-	5.0
6 Red Fox Hills #1	-	-	-	0.5	-	-	-	0.5
7 Red Fox Hills #3	-	-	-	0.2	-	-	-	0.2
8 Roehr Park	2.2	4.0	1.0	-	-	-	-	7.2
9 Rossman Park	-	-	-	0.5	-	-	-	0.5
10 East/West Waluga Park	25.4	4.0	2.0	15.0	-	-	-	46.4
11 Westlake Park	-	-	-	13.4	-	-	-	13.4
12 Westridge Park	-	-	-	1.7	-	-	-	1.7
13 Cooks Butte Park	43.0	-	-	-	-	-	-	43.0
14 Glenmorrie Park	2.7	-	-	-	-	-	-	2.7
15 Iron Mountain Park	3.4	-	-	1.0	-	-	-	4.4
16 Luscher Farm	115.0	-	-	-	-	5.0	-	120.0
17 River Run Park	8.8	2.0	-	-	-	-	-	10.8
18 Southwood Park	2.5	-	-	-	-	-	-	2.5
19 Bryant Woods	15.7	2.0	2.0	-	-	-	-	19.7
20 Springbrook	50.3	2.0	-	-	-	-	-	52.3
21 Woodmont	6.7	-	-	-	-	-	-	6.7
22 Canal Acres	31.1	-	-	-	-	-	-	31.1
23 Ellen Bergis	0.2	-	-	-	-	-	-	0.2
24 Iron Mountain Park	38.7	-	-	-	-	-	-	38.7
25 Lamont Springs	3.8	-	-	-	-	-	-	3.8
26 Adult Community Ctr	-	-	-	-	2.0	-	-	2.0
27 Indoor Tennis Cntr	-	-	-	-	2.0	-	-	2.0
28 Golf Course	-	-	-	-	-	38.6	-	38.6
29 Southshore Tennis	-	-	-	1.3	-	-	-	1.3
30 Lake Oswego Swim Park	-	0.3	-	-	-	-	-	0.3
31 Water Sports	-	na	-	-	-	-	-	0.0
32 Willamette Trolley	-	-	24.2	-	-	-	-	24.2
33 City Hall	-	-	-	-	-	-	2.0	2.0
34 Library	-	-	-	-	-	-	2.0	2.0
35 Skateboard/Maintenance	-	-	-	-	-	-	1.0	1.0
Lake Oswego	367.5	20.3	30.2	44.1	4.0	46.3	5.0	517.4
1 City-owned other	157.7	-	-	-	-	-	-	157.7
Lake Oswego OS	157.7	0.0	0.0	0.0	0.0	0.0	0.0	157.7
1 Bryant ES	-	-	-	2.4	-	-	-	2.4
2 Forest Hills ES	-	-	-	2.5	-	-	-	2.5
3 Hallinan ES	-	-	-	2.0	-	-	-	2.0
4 Lake Grove ES	-	-	-	2.0	-	-	-	2.0
5 Oak Creek ES	-	-	-	2.8	-	-	-	2.8
6 Palisades ES	-	-	-	3.0	-	-	-	3.0
7 River Grove ES	-	-	-	2.8	-	-	-	2.8
8 Uplands ES	-	-	-	2.0	-	-	-	2.0
9 Westridge S	-	-	-	2.0	-	-	-	2.0

Properties with park, recreation, and open space uses

Local/regional park lands in acres	Conservancy parks - wildlife/greenway/agriculture		Resource activity parks - swim/boat/fish/camp		Linear parks/trails/facilities		Recreational parks - picnic/playgrounds/fields/courts		Community centers/pools/facilities		Special use facilities - amphitheater/streetscape		Support facilities/yards/buildings		total
10 Lake Oswego JH	-	-	-	-	6.0	-	-	-	-	-	-	-	-	-	6.0
11 Waluga JH	-	-	-	-	9.0	-	-	-	-	-	-	-	-	-	9.0
12 Lake Oswego HS	-	-	-	-	7.0	-	-	-	-	-	-	-	-	-	7.0
13 Lakeridge HS	-	-	-	-	12.0	-	-	-	-	-	-	-	-	-	12.0
14 Lake Grove Swim Park	-	4.0	-	-	-	-	-	-	-	-	-	-	-	-	4.0
14 Lake Oswego School District	0.0	4.0	0.0	0.0	55.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59.5
1 Tryon Creek Natural Area	600.0	40.0	-	-	-	-	-	5.0	-	-	-	-	-	-	645.0
2 Portland Community College	5.0	-	-	-	10.0	5.0	-	-	-	-	-	-	-	-	20.0
3 National Guard Armory	-	-	-	-	-	2.0	-	-	-	-	-	-	-	-	2.0
Other publicly accessible	605.0	40.0	0.0	0.0	10.0	7.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	667.0
1 Lakewood Center Arts	-	-	-	-	-	8.0	-	-	-	-	-	-	-	-	8.0
2 Marylhurst College	40.0	-	-	-	20.0	20.0	-	-	-	-	-	-	-	-	80.0
3 P&WVRR	-	-	65.9	-	-	-	-	-	-	-	-	-	-	-	65.9
4 Lake Corporation	400.0	4.0	-	-	-	-	-	-	-	-	-	-	-	-	404.0
5 Lake Oswego Hunt Club	12.1	-	-	-	-	-	-	7.0	-	-	-	-	-	-	19.1
6 Oswego Lake Country Club	-	-	-	-	-	-	-	121.0	-	-	-	-	-	-	121.0 *
7 Mountain Park HOA	86.6	-	10.0	-	-	-	-	-	-	-	-	-	-	-	96.6 *
8 Bryant Woods Ngh Pool	-	-	-	-	-	1.0	-	-	-	-	-	-	-	-	1.0 *
9 Greentree Swimming Assn	-	-	-	-	-	1.0	-	-	-	-	-	-	-	-	1.0 *
10 Mountain Park Racquet Club	-	-	-	-	-	1.0	-	-	-	-	-	-	-	-	1.0 *
11 Mountain Park Rctn Ctr	-	-	-	-	-	2.7	-	-	-	-	-	-	-	-	2.7 *
12 Mount Sylvania Park	-	-	-	0.5	-	-	-	-	-	-	-	-	-	-	0.5 *
13 Rivers Edge Athletic Club	-	-	-	-	-	1.0	-	-	-	-	-	-	-	-	1.0 *
14 St Vincent Health	-	-	-	-	-	0.5	-	-	-	-	-	-	-	-	0.5 *
15 Trails End Fitness	-	-	-	-	-	0.2	-	-	-	-	-	-	-	-	0.2 *
16 Oswego Heritage House	-	-	-	-	-	-	-	1.0	-	-	-	-	-	-	1.0 *
17 Oswego Pioneer Cemetery	-	-	-	-	-	-	-	5.0	-	-	-	-	-	-	5.0 *
18 Brain Clough/Harbour Pt	5.2	-	-	-	-	-	-	-	-	-	-	-	-	-	5.2
19 Other HOA prvt	126.2	-	-	-	-	-	-	-	-	-	-	-	-	-	126.2
Private- fee and/or mbrshp	670.1	4.0	75.9	20.5	35.4	134.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	939.9
TOTAL	1800.3	68.3	106.1	130.1	46.4	185.3	5.0	2341.5							

Proposed level-of-service (PLOS) additions - by activity

5 July 2001

	units	PLOS facility addtn	Facility cost /unit	PLOS funding required	LO funding share	LO funding required	Comments
1	resource conservation acres		\$50,000	\$0	100%	\$0	
2	resource activities acres	10.0	\$75,000	\$750,000	100%	\$750,000	Roehr Park Addn
3	linear trails acres	2.0	\$75,000	\$150,000	100%	\$150,000	Roehr Park Addn
4	athletic flds/plygrnds acres		\$200,000	\$0	100%	\$0	
5	rcn centers/pools acres	2.0	\$400,000	\$800,000	100%	\$800,000	Lake Oswego Rctn Cntr
6	special use facilities acres	2.0	\$200,000	\$400,000	100%	\$400,000	Willamette Shore Trolley
7	support facilities acres		\$75,000	\$0	100%	\$0	
Subtotal for land impact		16.0		\$2,100,000		\$2,100,000	

Facilities

1	a picnic tables w/o shelter	10	\$7,609	\$76,090	100%	\$76,090	George Rogers Park
		12	\$7,609	\$91,308	100%	\$91,308	Roehr Park Addn
		2	\$7,609	\$15,218	100%	\$15,218	Hallinan Park
		1	\$7,609	\$7,609	100%	\$7,609	Cornell Park
		2	\$7,609	\$15,218	100%	\$15,218	South Shore Natural Area
		20	\$7,609	\$152,180	100%	\$152,180	Luscher Farm
		6	\$7,609	\$45,654	100%	\$45,654	Cooks Butte Park
		4	\$7,609	\$30,436	100%	\$30,436	River Run Park
		4	\$7,609	\$30,436	100%	\$30,436	Southwood Park
		10	\$7,609	\$76,090	100%	\$76,090	Springbrook Park
		1	\$7,609	\$7,609	100%	\$7,609	Red Fox Hills Park #1
		1	\$7,609	\$7,609	100%	\$7,609	Red Fox Hills Park #3
		10	\$7,609	\$76,090	100%	\$76,090	Adult Community Center
	b picnic shelters-group shelter	2	\$10,694	\$21,388	100%	\$21,388	Lake Oswego Swim Park
		2	\$10,694	\$21,388	100%	\$21,388	Lake Grove Swim Park
		1	\$10,694	\$10,694	100%	\$10,694	Roehr Park Addn
		2	\$10,694	\$21,388	100%	\$21,388	Luscher Farm
		1	\$10,694	\$10,694	100%	\$10,694	Pilkington Park
		1	\$10,694	\$10,694	100%	\$10,694	Westlake Park
		1	\$10,694	\$10,694	100%	\$10,694	Springbrook Park
		1	\$10,694	\$10,694	100%	\$10,694	Adult Community Center
2	a swimming beach	sq ft	\$0	\$0	100%	\$0	
	b swimming beach	pkng sp	\$4,388	\$0	100%	\$0	
3	a boat launch ramps	each	\$25,000	\$50,000	100%	\$50,000	Chip plant - Roehr Park Addn
	b boat launch-cartop	each	\$5,000	\$5,000	100%	\$5,000	Chip plant - Roehr Park Addn
		1	\$5,000	\$5,000	100%	\$5,000	River Run Park
	c floating platforms	sq ft	2000 \$32	\$64,000	100%	\$64,000	Chip plant - Roehr Park Addn
	d docks/piers	sq ft	1000 \$50	\$50,000	100%	\$50,000	Chip plant - Roehr Park Addn
	e boat moorage slips	each	4 \$10,000	\$40,000	100%	\$40,000	Chip plant - Roehr Park Addn
4	power boat - launch	pkng sp	\$4,241	\$0	100%	\$0	
5	a tent camping	cmpsite	\$30,935	\$0	100%	\$0	
	b vehicle camping	cmpsite	\$30,454	\$0	100%	\$0	
6	a park trail-asphalt	mile	0.8 \$133,216	\$106,573	100%	\$106,573	George Rogers Park
		1.0	\$133,216	\$133,216	100%	\$133,216	Roehr Park Addn
		1.0	\$133,216	\$133,216	100%	\$133,216	Millennium Park
		0.8	\$133,216	\$106,573	100%	\$106,573	Westlake Park
		1.0	\$133,216	\$133,216	100%	\$133,216	Waluga Park
		1.0	\$133,216	\$133,216	100%	\$133,216	Waluga JH
	b park trail-dirt	dirt	0.8 \$19,661	\$15,729	100%	\$15,729	Adult Community Center
		2.3	\$19,661	\$45,220	100%	\$45,220	Springbrook Park
		0.8	\$19,661	\$15,729	100%	\$15,729	Bryant Woods Park-Canal Acr
		3.3	\$19,661	\$64,881	100%	\$64,881	Luscher Farm-Cooks Butte
7	a day hiking trail-asph	mile	2.5 \$164,623	\$411,558	100%	\$411,558	Riverfront Trail
		1.0	\$164,623	\$164,623	100%	\$164,623	Lakewood Bay Loop
		0.5	\$164,623	\$82,312	100%	\$82,312	Old Town Loop
		5.5	\$164,623	\$905,427	100%	\$905,427	Mountain Park Loop
		2.8	\$164,623	\$452,713	100%	\$452,713	Kerr Parkway-Kruse Way Loop
		4.8	\$164,623	\$781,959	100%	\$781,959	Pilkington Loop
		3.0	\$164,623	\$493,869	100%	\$493,869	Luscher Farm-Cooks Butte
		2.3	\$164,623	\$370,402	100%	\$370,402	Hallinan Loop

Proposed level-of-service (PLOS) additions - by activity

5 July 2001

	units	PLOS facility addtn	Facility cost /unit	PLOS funding required	LO funding share	LO funding required	Comments
streetscape	mile	0.4	\$1,000,000	\$400,000	100%	\$400,000	A Avenue-3rd to 10th
		1.0	\$1,000,000	\$1,000,000	100%	\$1,000,000	State St-Terwilger to McVey
gateways	each	1	\$50,000	\$50,000	100%	\$50,000	10th Street
		1	\$50,000	\$50,000	100%	\$50,000	McVey Ave
		1	\$50,000	\$50,000	100%	\$50,000	Boones Ferry Rd-Condo Court
		1	\$50,000	\$50,000	100%	\$50,000	Kerr Parkway-Stephenson St
		1	\$50,000	\$50,000	100%	\$50,000	Jefferson Parkway-Krause Dr
		1	\$50,000	\$50,000	100%	\$50,000	Lower Boones Ferry-SPRR
		1	\$50,000	\$50,000	100%	\$50,000	Stafford Rd-Rosemont Rd
		1	\$50,000	\$50,000	100%	\$50,000	Willamette Highway-Arbor Rd
gateway-crossroads	each	1	\$75,000	\$75,000	100%	\$75,000	Country Club Rd-A Avenue
		1	\$75,000	\$75,000	100%	\$75,000	Country Club Rd-Boones Ferry
		1	\$75,000	\$75,000	100%	\$75,000	Boones Ferry Rd-Kruse Way
b day hiking trail	mile-asp		\$199,160	\$0	100%	\$0	
	mile-dirt		\$19,661	\$0	100%	\$0	
	mile-rock		\$56,195	\$0	100%	\$0	
	mile-conc		\$250,000	\$0	100%	\$0	
c day hiking trailheads	pkng sp		included	\$0	100%	\$0	
8 a backpacking trail	mile		\$47,399	\$0	100%	\$0	
b backpacking trailheads	pkng sp		\$4,241	\$0	100%	\$0	
9 a bicycling trail-asphalt	mile	1.5	\$116,588	\$174,882	100%	\$174,882	Riverfront Trail
		5.0	\$116,588	\$582,940	100%	\$582,940	Southern Pacific Rail Trail
		2.5	\$116,588	\$291,470	100%	\$291,470	Luscher Farm-River Run
	mile-dirt		\$5,809	\$0	100%	\$0	
	mile-rock		\$58,294	\$0	100%	\$0	
c bicycle trailheads	pkng sp	1	included	\$0	100%	\$0	Roehr Park Addn
		1	included	\$0	100%	\$0	Iron Mountain Park
		1	included	\$0	100%	\$0	Bryant Woods Park-Canal Acr
		2	included	\$0	100%	\$0	Luscher Farm
10 a bicycling shoulder-rr	mile	1.0	\$158,616	\$158,616	100%	\$158,616	Kruse Oaks-62nd Ave-Lessor
		0.5	\$158,616	\$79,308	100%	\$79,308	McEwan Rd-Lower Boones Fe
		0.4	\$158,616	\$63,446	100%	\$63,446	Lesser Rd-Capitol Highway
		0.7	\$158,616	\$111,031	100%	\$111,031	Haines Rd-PCC
		0.6	\$158,616	\$95,170	100%	\$95,170	G Avenue
		1.0	\$158,616	\$158,616	100%	\$158,616	North Shore Rd-Middle Crest F
		1.0	\$158,616	\$158,616	100%	\$158,616	Meadows Rd
		3.0	\$158,616	\$475,848	100%	\$475,848	Childs Rd
		1.0	\$158,616	\$158,616	100%	\$158,616	Carman Drive-Fosberg Rd
		0.5	\$158,616	\$79,308	100%	\$79,308	McEwan Rd-65th Ave
		1.3	\$158,616	\$206,201	100%	\$206,201	Pilkington Rd
		0.6	\$158,616	\$95,170	100%	\$95,170	10th St
b bicycling in-lane	mile		\$17,258	\$0	100%	\$0	
c bicycling road-trailheads	pkng sp		included	\$0	100%	\$0	
11 a equestrian trail	mile	1.0	\$5,517	\$5,517	100%	\$5,517	Luscher Farm
		1.6	\$5,517	\$8,827	100%	\$8,827	Luscher Farm-Cooks Butte
		0.8	\$5,517	\$4,414	100%	\$4,414	Iron Mountain Park
b equestrian trailhead	pkng sp	1	included	\$0	100%	\$0	Luscher Farm
12 a playground-covered	plygrnd		\$100,000	\$0	100%	\$0	
b playground-uncovered	plygrnd	1	\$62,900	\$62,900	100%	\$62,900	Roehr Park Addn
		1	\$62,900	\$62,900	100%	\$62,900	Hallinan Park
		1	\$62,900	\$62,900	100%	\$62,900	Cornell Park
		3	\$62,900	\$188,700	100%	\$188,700	Luscher Farm
		1	\$62,900	\$62,900	100%	\$62,900	River Run Park
		1	\$62,900	\$62,900	100%	\$62,900	Southwood Park
		1	\$62,900	\$62,900	100%	\$62,900	Springbrook Park
		1	\$62,900	\$62,900	100%	\$62,900	Adult Community Center
13 play area-improved	acre		\$97,054	\$0	100%	\$0	
14 a skateboard court	court	1	\$100,000	\$100,000	100%	\$100,000	Lake Oswego JH
		1	\$100,000	\$100,000	100%	\$100,000	Waluga JH
15 handball-uncovered	court		\$19,723	\$0	100%	\$0	

Proposed level-of-service (PLOS) additions - by activity

5 July 2001

units	PLOS facility addtn	Facility cost /unit	PLOS funding required	LO funding share	LO funding required	Comments
16 a basketball-covered court		\$75,000	\$0	100%	\$0	
b basketball-uncovere court		\$53,383	\$0	100%	\$0	
17 a volleyball-covered court		\$50,000	\$0	100%	\$0	
b volleyball-uncoverec court		\$29,224	\$0	100%	\$0	
c volleyball-sand court		\$5,000	\$5,000	100%	\$5,000	West Waluga Park
	1	\$5,000	\$5,000	100%	\$5,000	Westlake Park
	2	\$5,000	\$10,000	100%	\$10,000	George Rogers Park
	1	\$5,000	\$5,000	100%	\$5,000	Rossman Park
	1	\$5,000	\$5,000	100%	\$5,000	East Waluga Park
	1	\$5,000	\$5,000	100%	\$5,000	Roehr Park Addn
	2	\$5,000	\$10,000	100%	\$10,000	Luscher Farm
	1	\$5,000	\$5,000	100%	\$5,000	Pilkington Park
	1	\$5,000	\$5,000	100%	\$5,000	Springbrook Park
	1	\$5,000	\$5,000	100%	\$5,000	Adult Community Center
18 a tennis-indoor court		\$150,000	\$0	100%	\$0	
b tennis-outdoor lighte court		\$95,320	\$0	100%	\$0	
c tennis-outdoor unligl court		\$52,481	\$0	100%	\$0	
19 a football-regulation field		\$226,436	\$0	100%	\$0	
b football-practice fielc field		\$100,000	\$0	100%	\$0	
20 a soccer-regulation fld-allwea		\$172,852	\$0	100%	\$0	
grss/lts	5	\$583,480	\$2,917,400	100%	\$2,917,400	Site to be determined
grss/lts	1	\$583,480	\$583,480	0%	\$0	PCC - use agreement
grss/lts	1	\$583,480	\$583,480	0%	\$0	Marylhurst - use agreement
b soccer-youth fld-allwea		\$141,422	\$0	100%	\$0	
upgrade	1	\$70,711	\$70,711	100%	\$70,711	Lake Grove ES
21 lacrosse-grass field		\$500,000	\$0	100%	\$0	
22 a ballfield-300 grss/lig fld grs/lgt	0	\$403,612	\$403,612	100%	\$403,612	Lakeridge HS #1,#2 - lights
	1	\$403,612	\$403,612	0%	\$0	PCC - use agreement
	1	\$403,612	\$403,612	0%	\$0	Marylhurst - use agreement
	1	\$403,612	\$403,612	100%	\$403,612	Site to be determined
b ballfield-250+grss/ur fld dirt		\$117,965	\$0	100%	\$0	
c ballfield-250+dirt/ligt field	1	\$250,000	\$250,000	100%	\$250,000	Site to be determined
d ballfield-250+dirt/unl field		\$175,000	\$0	100%	\$0	
upgrade	2	\$87,500	\$175,000	100%	\$175,000	Forest Hills ES #1, #2
upgrade	2	\$87,500	\$175,000	100%	\$175,000	Palisades ES #1, #2
e ballfield-nonregulatic field		\$100,000	\$0	100%	\$0	
f ballfield-200 grss field		\$203,449	\$0	100%	\$0	
g ballfield-200 dirt field		\$105,729	\$0	100%	\$0	
23 parcourse-10 stator stations		\$2,598	\$0	100%	\$0	
24 a jogging track-surfaci miles		\$61,388	\$0	100%	\$0	
b jogging track-dirt miles		\$30,000	\$0	100%	\$0	
25 a swimming pool-indo sq ft	0	\$400	\$0	100%	\$600,000	Lake Oswego HS - upgrade
	2,000	\$400	\$800,000	100%	\$800,000	Lake Oswego HS - addn
	3,000	\$400	\$1,200,000	0%	\$0	PCC - use agreement
	4,000	\$400	\$1,600,000	100%	\$1,600,000	Lake Oswego Swim Center
b swimming pool-outd sq ft		\$200	\$0	100%	\$0	
26 indoor gymnasium sq ft	0	\$300	\$0	0%	\$0	Lake Oswego HS - use agreer
	0	\$300	\$0	0%	\$0	Lakeridge HS - use agreement
	0	\$300	\$0	0%	\$0	PCC - use agreement
	0	\$300	\$0	0%	\$0	Marylhurst - use agreement
	10,000	\$300	\$3,000,000	100%	\$3,000,000	Lake Oswego Rctn Cntr
27 physical conditioning sq ft	4,000	\$250	\$1,000,000	100%	\$1,000,000	Lake Oswego Rctn Cntr
28 rcqutbl/hndbl (1600 each/sf		\$320,000	\$0	100%	\$0	
29 arts/crafts room sq ft	4,000	\$270	\$1,080,000	100%	\$1,080,000	Lake Oswego Cmty Cntr
30 class/meeting room sq ft	2,000	\$250	\$500,000	100%	\$500,000	Lake Oswego Cmty Cntr
31 auditorium sq ft	4,000	\$400	\$1,600,000	100%	\$1,600,000	Lake Oswego Cmty Cntr
32 kitchen facilities sq ft	800	\$400	\$320,000	100%	\$320,000	Lake Oswego Cmty Cntr
33 dining facilities sq ft		\$200	\$0	100%	\$0	
34 a day care/nursery sq ft	1,200	\$250	\$300,000	100%	\$300,000	Lake Oswego Cmty Cntr
b cmty teen sq ft	2,000	\$250	\$500,000	100%	\$500,000	Lake Oswego Cmty Cntr

Proposed level-of-service (PLOS) additions - by activity

5 July 2001

	units	PLOS facility addtn	Facility cost /unit	PLOS funding required	LO funding share	LO funding required	Comments
35	a cmty cntr administra sq ft		\$350	\$0	100%	\$0	
	b cmty cntr administra sq ft		\$250	\$0	100%	\$0	
36	a nature center sq ft	5,000	\$150	\$750,000	100%	\$750,000	Luscher Farm
	b museum sq ft	2,400	\$300	\$720,000	100%	\$720,000	Luscher Farm
	b museum sq ft	5,000	\$300	\$1,500,000	100%	\$1,500,000	Willamette Shore Trolley
37	a golf-par 3/18 hole hole		\$111,111	\$0	100%	\$0	
	b golf-clubhouse sq ft		\$300	\$0	100%	\$0	
	c golf-maintenance sq ft		\$90	\$0	100%	\$0	
38	a gun range-outdoor range		\$20,000	\$0	100%	\$0	
	b archery range-outdo range		\$10,000	\$0	100%	\$0	
39	amphitheater sq ft	3,000	\$130	\$390,000	100%	\$390,000	Luscher Farm
40	a parks admin offices sq ft	1,200	\$250	\$300,000	100%	\$300,000	Luscher Farm
	b parks maintenance 1 sq ft	2,600	\$120	\$312,000	100%	\$312,000	Luscher Farm
	c park shop yard sq ft		\$30	\$0	100%	\$0	
	d parks caretaker each/sf		\$60	\$0	100%	\$0	
	e restrooms-permanei fixture	8	\$17,392	\$139,132	100%	\$139,132	Springbrook Park
		6	\$17,392	\$104,349	100%	\$104,349	Pilkington Park
		6	\$17,392	\$104,349	100%	\$104,349	Iron Mountain Park
		6	\$17,392	\$104,349	100%	\$104,349	River Run Park
		6	\$17,392	\$104,349	100%	\$104,349	Freepons Park
		24	\$17,392	\$417,396	100%	\$417,396	Luscher Farm
		8	\$17,392	\$139,132	100%	\$139,132	Roehr Park Addn
	f restrooms-temporar each		\$1,000	\$0	100%	\$0	
	g bulkhead restoration each		\$25,000	\$0	100%	\$0	
	h ponds restoration each		\$25,000	\$0	100%	\$0	
Subtotal for facility impact		59,483		\$34,690,182		\$32,115,998	
Total impact for land and facilities				\$36,790,182		\$34,215,998	

Prototype facility development costs
Playground - 10 child capacity

	unit	unit cost	qty	qty cost
a clear playground, parking, access road	acre	\$1,450.00	0.5	\$725
b earthwork for playground, parking, access road	cu yd	\$4.40	746	\$3,282
c site preparation, 12"sand or bark @100'diameter	sq ft	\$0.83	15,700	\$13,031
d medium play structure	each	\$10,000.00	1	\$10,000
e parent bench, 8"x8"x10'wood beams w/conc support	each	\$900.00	3	\$2,700
f trash receptacle w/concrete support	each	\$300.00	2	\$600
g drinking fountain, precast concrete	each	\$750.00	1	\$750
h bike rack, prefab galvanized pipe	each	\$350.00	1	\$350
i parking, 2"asphalt concrete/4"crushed rock, 10 cars	sq ft	\$1.25	3,000	\$3,750
j wheel stops, 10"x6"x8'precast concrete	each	\$146.00	10	\$1,460
k access road, 2"asphalt concrete/4"crushed rock, 24'x5'	sq ft	\$1.25	1,200	\$1,500
l water service, 8"service line	lr ft	\$15.00	100	\$1,500
m water meter, 2"size	each	\$4,400.00	1	\$4,400
Total construction cost per playground				\$44,048
a contingency (design, financing)	8.2%			\$3,612
b design/engineering fees (const)	12.0%			\$5,286
c financing costs (design, const)	8.0%			\$4,236
d contingency (construction)	10.0%			\$5,718
Total development cost per playground				\$62,900

Grassy playfield - 1 acre

	unit	unit cost	qty	qty cost
a clear field, structures, parking, access road	acre	\$1,450.00	1	\$1,450
b earthwork for field, structures, parking, road	cu yd	\$4.40	1,613	\$7,099
c restroom facility, sani-can w/concrete platform	each	\$100.00	2	\$200
d trash receptacles w/concrete support	each	\$300.00	2	\$600
e playfield, grass seed w/subdrain	sq ft	\$0.20	43,560	\$8,712
f irrigation system-quick coupler	sq ft	\$0.42	43,560	\$18,295
g drinking fountain	each	\$750.00	1	\$750
h bike rack, prefab galvanized pipe	each	\$350.00	1	\$350
i parking, 2"asphalt concrete/4"crushed rock, 20 spaces	sq ft	\$1.25	6,000	\$7,500
j wheel stops, 10"x6"x8'precast concrete	each	\$146.00	35	\$5,110
k access road, 2"asphalt concrete/4"crushed rock, 24'x5'	sq ft	\$1.25	4,800	\$6,000
l water service, 8"service line	lr ft	\$15.00	500	\$7,500
m water meter, 2"size	each	\$4,400.00	1	\$4,400
Total construction cost per field				\$67,966
a contingency (design, financing)	8.2%			\$5,573
b design/engineering fees (const)	12.0%			\$8,156
c financing costs (design, const)	8.0%			\$6,536
d contingency (construction)	10.0%			\$8,823
Total development cost per field				\$97,054

Outdoor handball courts - 3 wall 20'x40'

	unit	unit cost	qty	qty cost
a earthwork for court and support area	cu yd	\$4.40	50	\$220
b 3"asphalt/4"aggreg/6"gravel	sq ft	\$2.50	1,000	\$2,500
c concrete side walls	lr ft	\$25.00	80	\$2,000
d trash receptacles w/conc support	each	\$300.00	1	\$300
e drinking fountain	each	\$750.00	1	\$750

f	bike rack, prefab galvanized pipe	each	\$350.00	1	\$350
g	parking, 2"asphalt concrete/4"crushed rock, 2 spaces	sq ft	\$1.25	600	\$750
h	wheel stops, 10"x6"x8'precast concrete	each	\$146.00	2	\$292
i	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.25	600	\$750
j	water service, 8"service line	lr ft	\$15.00	100	\$1,500
k	water meter, 2"size	each	\$4,400.00	1	\$4,400

Total construction cost per court \$13,812

a	contingency (design, financing)	8.2%			\$1,133
b	design/engineering fees (const)	12.0%			\$1,657
c	financing costs (design, const)	8.0%			\$1,328
d	contingency (construction)	10.0%			\$1,793

Total development cost per court \$19,723

Outdoor basketball - 70'x114'

		unit	unit cost	qty	qty cost
a	earthwork for court, parking, access road	cu yd	\$4.40	460	\$2,024
b	3"asphalt/4"aggreg/6"gravel	sq ft	\$2.50	7,980	\$19,950
c	standards w/hoop and net, 6"steel poles	each	\$700.00	2	\$1,400
d	trash receptacles w/conc support	each	\$300.00	1	\$300
e	drinking fountain	each	\$750.00	1	\$750
f	bike rack, prefab galvanized pipe	each	\$350.00	1	\$350
g	parking, 2"asphalt concrete/4"crushed rock, 10 space:	sq ft	\$1.25	3,000	\$3,750
h	wheel stops, 10"x6"x8'precast concrete	each	\$146.00	10	\$1,460
i	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.25	1,200	\$1,500
j	water service, 8"service line	lr ft	\$15.00	100	\$1,500
k	water meter, 2"size	each	\$4,400.00	1	\$4,400

Total construction cost per court \$37,384

a	contingency (design, financing)	8.2%			\$3,065
b	design/engineering fees (const)	12.0%			\$4,486
c	financing costs (design, const)	8.0%			\$3,595
d	contingency (construction)	10.0%			\$4,853

Total development cost per court \$53,383

Outdoor volleyball - 42'x72'

		unit	unit cost	qty	qty cost
a	earthwork for court, parking, access road	cu yd	\$4.40	276	\$1,214
b	playing surface, 6"sand/compacted subgrade	cu yd	\$19.00	56	\$1,064
c	boundary lines, imbedded 4"x4"cedar	lr ft	\$2.65	180	\$477
d	net and anchors, 6"x6" treated wood posts	each	\$500.00	1	\$500
e	line judges stand, galvanized pipe w/2"x4" frame	each	\$700.00	2	\$1,400
f	players bench, 8"x8"x10'wood beams w/conc support	each	\$900.00	2	\$1,800
g	trash receptacles w/concrete support	each	\$300.00	1	\$300
g	drinking fountain	each	\$750.00	1	\$750
i	bike rack, prefab galvanized pipe	each	\$350.00	1	\$350
j	parking, 2"asphalt concrete/4"crushed rock, 10 space:	sq ft	\$1.25	3,000	\$3,750
k	wheel stops, 10"x6"x8'precast concrete	each	\$146.00	10	\$1,460
l	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.25	1,200	\$1,500
m	water service, 8"service line	lr ft	\$15.00	100	\$1,500
n	water meter, 2"size	each	\$4,400.00	1	\$4,400

Total construction cost per court \$20,465

a	contingency (design, financing)	8.2%			\$1,678
b	design/engineering fees (const)	12.0%			\$2,456
c	financing costs (design, const)	8.0%			\$1,968
d	contingency (construction)	10.0%			\$2,657

Total development cost per court

\$29,224

Outdoor tennis - 60'x120' with lights

	unit	unit cost	qty	qty cost	
a	earthwork for court, parking, access road	cu yd	\$4.40	320	\$1,408
b	colorcoat/1"asphalt/2"asphalt/4"crushed rock	sq ft	\$2.50	7,200	\$18,000
c	perimeter fencing, 12'galvanized w/1.75"fabric	lr ft	\$16.00	360	\$5,760
d	lighting system, 4 poles w/2 km projectors	system	\$30,000.00	1	\$30,000
e	net and anchors, 3.5"galvanized pipe posts	each	\$700.00	1	\$700
f	trash receptacles w/conc support	each	\$300.00	1	\$300
g	drinking fountain	each	\$750.00	1	\$750
h	bike rack, prefab galvanized pipe	each	\$350.00	1	\$350
i	parking, 2"asphalt concrete/4"crushed rock, 4 spaces	sq ft	\$1.25	1,200	\$1,500
j	wheel stops, 10"x6"x8'precast concrete	each	\$146.00	4	\$584
k	access road, 2"asphalt concrete/4"crushed rock, 24'x5'	sq ft	\$1.25	1,200	\$1,500
l	water service, 8"service line	lr ft	\$15.00	100	\$1,500
m	water meter, 2"size	each	\$4,400.00	1	\$4,400
Total construction cost per court					\$66,752
a	contingency (design, financing)	8.2%			\$5,474
b	design/engineering fees (const)	12.0%			\$8,010
c	financing costs (design, const)	8.0%			\$6,419
d	contingency (construction)	10.0%			\$8,665
Total development cost per court					\$95,320

Outdoor tennis - 60'x120' without lights

	unit	unit cost	qty	qty cost	
a	earthwork for court, parking, access road	cu yd	\$4.40	320	\$1,408
b	colorcoat/1"asphalt/2"asphalt/4"crushed rock	sq ft	\$2.50	7,200	\$18,000
c	perimeter fencing, 12'galvanized w/1.75"fabric	lr ft	\$16.00	360	\$5,760
d	net and anchors, 3.5"galvanized pipe posts	each	\$700.00	1	\$700
e	trash receptacles w/conc support	each	\$300.00	1	\$300
f	drinking fountain	each	\$750.00	1	\$750
g	bike rack, prefab galvanized pipe	each	\$350.00	1	\$350
h	parking, 2"asphalt concrete/4"crushed rock, 4 spaces	sq ft	\$1.25	1,200	\$1,500
i	wheel stops, 10"x6"x8'precast concrete	each	\$146.00	4	\$584
j	access road, 2"asphalt concrete/4"crushed rock, 24'x5'	sq ft	\$1.25	1,200	\$1,500
k	water service, 8"service line	lr ft	\$15.00	100	\$1,500
l	water meter, 2"size	each	\$4,400.00	1	\$4,400
Total construction cost per court					\$36,752
a	contingency (design, financing)	8.2%			\$3,014
b	design/engineering fees (const)	12.0%			\$4,410
c	financing costs (design, const)	8.0%			\$3,534
d	contingency (construction)	10.0%			\$4,771
Total development cost per court					\$52,481

Football field - 150'x300'

	unit	unit cost	qty	qty cost	
a	clear field, structures, parking, access road	acre	\$1,450.00	2	\$2,900
b	earthwork, 1'depth	cu yd	\$4.40	1,667	\$7,333
c	playing surface, grass turf/12" sand w/subdrain	sq ft	\$1.46	45,000	\$65,700
d	irrigation system-quick coupler	sq ft	\$0.42	45,000	\$18,900
e	spectator stands, movable metal (40 seats)	each	\$4,000.00	4	\$16,000
f	restroom facility, sani-can on concrete platform	each	\$1,044.00	2	\$2,088
g	trash receptacles w/conc support	each	\$300.00	2	\$600

h	drinking fountain	each	\$750.00	1	\$750
i	bike rack, prefab galvanized pipe	each	\$350.00	1	\$350
j	parking, 2"asphalt concrete/4"crushed rock, 50 space:	sq ft	\$1.25	15,000	\$18,750
k	wheel stops, 10"x6"x8'precast concrete	each	\$146.00	50	\$7,300
l	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.25	4,800	\$6,000
m	water service, 8"service line	lr ft	\$15.00	500	\$7,500
n	water meter, 2"size	each	\$4,400.00	1	\$4,400
Total construction cost per field					\$158,571
a	contingency (design, financing)	8.2%			\$13,003
b	design/engineering fees (const)	12.0%			\$19,029
c	financing costs (design, const)	8.0%			\$15,248
d	contingency (construction)	10.0%			\$20,585
Total development cost per field					\$226,436

Soccer field - 240'x330' with grass turf

		unit	unit cost	qty	qty cost
a	clear field, structures, parking, access road	acre	\$1,450.00	2.1	\$3,045
b	earthwork for field, structures, parking, road	cu yd	\$4.40	5,094	\$22,414
c	playing surface, grass turf/12"sand w/subdrain	sq ft	\$1.46	79,200	\$115,632
d	irrigation system-quick coupler	sq ft	\$0.42	79,200	\$33,264
e	spectator stands, movable metal (50 seats)	each	\$5,000.00	2	\$10,000
f	trash receptacles w/conc support	each	\$300.00	2	\$600
g	drinking fountain	each	\$750.00	1	\$750
h	restroom facility, sani-can w/conc platform	each	\$1,044.00	2	\$2,088
i	bike rack, prefab galvanized pipe	each	\$350.00	1	\$350
j	parking, 2"asphalt concrete/4"crushed rock, 50 space:	sq ft	\$1.25	15,000	\$18,750
k	wheel stops, 10"x6"x8'precast concrete	each	\$146.00	50	\$7,300
l	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.25	4,800	\$6,000
m	water service, 8"service line	lr ft	\$15.00	500	\$7,500
n	water meter, 2"size	each	\$4,400.00	1	\$4,400
Total construction cost per field					\$232,093
a	contingency (design, financing)	8.2%			\$19,032
b	design/engineering fees (const)	12.0%			\$27,851
c	financing costs (design, const)	8.0%			\$22,318
d	contingency (construction)	10.0%			\$30,129
Total development cost per field					\$331,423

Soccer field - 240'x330' with dirt surface

		unit	unit cost	qty	qty cost
a	clear field, structures, parking, access road	acre	\$1,450.00	2.1	\$3,045
b	earthwork for field, structures, parking, road	cu yd	\$4.40	5,094	\$22,414
c	playing surface, cinder w/subdrain	sq ft	\$0.20	79,200	\$15,840
d	spectator stands, movable metal (50 seats)	each	\$5,000.00	2	\$10,000
e	trash receptacles w/conc support	each	\$300.00	2	\$600
f	drinking fountain	each	\$750.00	1	\$750
g	restroom facility, sani-can w/conc platform	each	\$1,044.00	2	\$2,088
h	bike rack, prefab galvanized pipe	each	\$350.00	1	\$350
i	parking, 2"asphalt concrete/4"crushed rock, 50 space:	sq ft	\$1.25	15,000	\$18,750
j	wheel stops, 10"x6"x8'precast concrete	each	\$146.00	50	\$7,300
k	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.25	4,800	\$6,000
l	water service, 8"service line	lr ft	\$15.00	500	\$7,500
m	water meter, 2"size	each	\$4,400.00	1	\$4,400
Total construction cost per field					\$99,037
a	contingency (design, financing)	8.2%			\$8,121

b design/engineering fees (const)	12.0%	\$11,884
c financing costs (design, const)	8.0%	\$9,523
d contingency (construction)	10.0%	\$12,857
Total development cost per field		\$141,422

Soccer field - regulation 300'x390' with grass turf with lights

	unit	unit cost	qty	qty cost
a clear field, structures, parking, access road	acre	\$1,450.00	3.1	\$4,495
b earthwork for field, structures, parking, road	cu yd	\$4.40	5,094	\$22,414
c playing surface, grass turf/12"sand w/subdrain	sq ft	\$1.46	117,000	\$170,820
d irrigation system-quick coupler	sq ft	\$0.42	117,000	\$49,140
e lighting system, 8 poles w/luminaires	system	\$91,000.00	1	\$91,000
f goal posts, galvanized pipe	each	\$1,500.00	2	\$3,000
g spectator stands, movable metal (50 seats)	each	\$5,000.00	4	\$20,000
h trash receptacles w/conc support	each	\$300.00	2	\$600
i drinking fountain	each	\$750.00	1	\$750
j restroom facility, sani-can w/conc platform	each	\$1,044.00	2	\$2,088
k bike rack, prefab galvanized pipe	each	\$350.00	1	\$350
l parking, 2"asphalt concrete/4"crushed rock, 50 space:	sq ft	\$1.25	15,000	\$18,750
m wheel stops, 10"x6"x8'precast concrete	each	\$146.00	50	\$7,300
n access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.25	4,800	\$6,000
o water service, 8"service line	lr ft	\$15.00	500	\$7,500
p water meter, 2"size	each	\$4,400.00	1	\$4,400

Total construction cost per field \$408,607

a contingency (design, financing)	8.2%	\$33,506
b design/engineering fees (const)	12.0%	\$49,033
c financing costs (design, const)	8.0%	\$39,292
d contingency (construction)	10.0%	\$53,044

Total development cost per field \$583,480

Soccer field - regulation 300'x390' with dirt surface

	unit	unit cost	qty	qty cost
a clear field, structures, parking, access road	acre	\$1,450.00	3.1	\$4,495
b earthwork for field, structures, parking, road	cu yd	\$4.40	5,094	\$22,414
c playing surface, cinder w/subdrain	sq ft	\$0.20	117,000	\$23,400
d goal posts, galvanized pipe	each	\$1,500.00	2	\$3,000
e spectator stands, movable metal (50 seats)	each	\$5,000.00	4	\$20,000
f trash receptacles w/conc support	each	\$300.00	2	\$600
g drinking fountain	each	\$750.00	1	\$750
h restroom facility, sani-can w/conc platform	each	\$1,044.00	2	\$2,088
i bike rack, prefab galvanized pipe	each	\$350.00	1	\$350
j parking, 2"asphalt concrete/4"crushed rock, 50 space:	sq ft	\$1.25	15,000	\$18,750
k wheel stops, 10"x6"x8'precast concrete	each	\$146.00	50	\$7,300
l access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.25	4,800	\$6,000
m water service, 8"service line	lr ft	\$15.00	500	\$7,500
n water meter, 2"size	each	\$4,400.00	1	\$4,400

Total construction cost per field \$121,047

a contingency (design, financing)	8.2%	\$9,926
b design/engineering fees (const)	12.0%	\$14,526
c financing costs (design, const)	8.0%	\$11,640
d contingency (construction)	10.0%	\$15,714

Total development cost per field \$172,852

Baseball field - 200' with grass turf

	unit	unit cost	qty	qty cost	
a	clear field, structures, parking, access road	acre	\$1,450.00	1.2	\$1,740
b	earthwork for field, structures, parking, road	cu yd	\$4.40	2,586	\$11,378
c	infield mix w/subdrain	cu yd	\$18.00	133	\$2,400
d	outfield, grass turf/12" sand w/subdrain	sq ft	\$1.46	36,400	\$53,144
e	irrigation system-quick coupler	sq ft	\$0.42	36,400	\$15,288
f	backstop, 3"pipe posts w/supports, 2"chain link	each	\$5,000.00	1	\$5,000
g	players bench, 8"x8"x10'wood beams w/conc support	each	\$900.00	4	\$3,600
h	spectator stands, movable metal (50 seats)	each	\$5,000.00	2	\$10,000
i	trash receptacles w/conc support	each	\$300.00	2	\$600
j	drinking fountain	each	\$750.00	1	\$750
k	restroom facility, sani-can w/conc platform	sq ft	\$1,044.00	2	\$2,088
l	bike rack, prefab galvanized pipe	each	\$350.00	1	\$350
m	parking, 2"asphalt concrete/4"crushed rock, 35 space:	sq ft	\$1.25	10,500	\$13,125
n	wheel stops, 10"x6"x8'precast concrete	each	\$146.00	35	\$5,110
o	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.25	4,800	\$6,000
p	water service, 8"service line	lr ft	\$15.00	500	\$7,500
q	water meter, 2"size	each	\$4,400.00	1	\$4,400

Total construction cost per field \$142,473

a	contingency (design, financing)	8.2%	\$11,683
b	design/engineering fees (const)	12.0%	\$17,097
c	financing costs (design, const)	8.0%	\$13,700
d	contingency (construction)	10.0%	\$18,495

Total development cost per field \$203,449

Baseball field - 200' with dirt surface

	unit	unit cost	qty	qty cost	
a	clear field, structures, parking, access road	acre	\$1,450.00	1.2	\$1,740
b	earthwork for field, structures, parking, road	cu yd	\$4.40	2,586	\$11,378
c	infield mix w/subdrain	cu yd	\$18.00	133	\$2,400
d	backstop, 3"pipe posts w/supports, 2"chain link	each	\$5,000.00	1	\$5,000
e	players bench, 8"x8"x10'wood beams w/conc support	each	\$900.00	4	\$3,600
f	spectator stands, movable metal (50 seats)	each	\$5,000.00	2	\$10,000
g	trash receptacles w/conc support	each	\$300.00	2	\$600
h	drinking fountain	each	\$750.00	1	\$750
i	restroom facility, sani-can w/conc platform	sq ft	\$1,044.00	2	\$2,088
j	bike rack, prefab galvanized pipe	each	\$350.00	1	\$350
k	parking, 2"asphalt concrete/4"crushed rock, 35 space:	sq ft	\$1.25	10,500	\$13,125
l	wheel stops, 10"x6"x8'precast concrete	each	\$146.00	35	\$5,110
m	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.25	4,800	\$6,000
n	water service, 8"service line	lr ft	\$15.00	500	\$7,500
o	water meter, 2"size	each	\$4,400.00	1	\$4,400

Total construction cost per field \$74,041

a	contingency (design, financing)	8.2%	\$6,071
b	design/engineering fees (const)	12.0%	\$8,885
c	financing costs (design, const)	8.0%	\$7,120
d	contingency (construction)	10.0%	\$9,612

Total development cost per field \$105,729

Baseball field - 250' with grass/lights/concession

	unit	unit cost	qty	qty cost	
a	clear field, structures, parking, access road	acre	\$1,450.00	3.1	\$4,495
b	earthwork for field, structures, parking, road	cu yd	\$4.40	3,700	\$16,280
c	infield mix w/subdrain	cu yd	\$18.00	300	\$5,400

d	outfield, grass turf/12" sand w/subdrain	sq ft	\$1.46	44,700	\$65,262
e	irrigation system-quick coupler	sq ft	\$0.42	44,700	\$18,774
f	lighting system, 8 poles w/luminaires	system	\$91,000.00	1	\$91,000
g	backstop, 3"pipe posts w/supports, 2"chain link	each	\$5,000.00	1	\$5,000
h	players bench, 8"x8"x10'wood beams w/conc support	each	\$900.00	4	\$3,600
i	spectator stands, movable metal (50 seats)	each	\$5,000.00	2	\$10,000
j	trash receptacles w/conc support	each	\$300.00	2	\$600
k	drinking fountain	each	\$750.00	1	\$750
l	concession facility, warming and refrigeration	sq ft	\$100.00	250	\$25,000
m	bike rack, prefab galvanized pipe	each	\$350.00	1	\$350
n	parking, 2"asphalt concrete/4"crushed rock, 35 space:	sq ft	\$1.25	10,500	\$13,125
o	wheel stops, 10"x6"x8'precast concrete	each	\$146.00	35	\$5,110
p	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.25	4,800	\$6,000
q	water service, 8"service line	lr ft	\$15.00	500	\$7,500
r	water meter, 2"size	each	\$4,400.00	1	\$4,400

Total construction cost per field \$282,646

a	contingency (design, financing)	8.2%	\$23,177
b	design/engineering fees (const)	12.0%	\$33,918
c	financing costs (design, const)	8.0%	\$27,179
d	contingency (construction)	10.0%	\$36,692

Total development cost per field \$403,612

Baseball field - 250' w/o lights or concession

		unit	unit cost	qnty	qnty cost
a	clear field, structures, parking, access road	acre	\$1,450.00	3.1	\$4,495
b	earthwork for field, structures, parking, road	cu yd	\$4.40	3,700	\$16,280
c	infield mix w/subdrain	cu yd	\$18.00	300	\$5,400
d	backstop, 3"pipe posts w/supports, 2"chain link	each	\$5,000.00	1	\$5,000
e	players bench, 8"x8"x10'wood beams w/conc support	each	\$900.00	4	\$3,600
f	spectator stands, movable metal (50 seats)	each	\$5,000.00	2	\$10,000
g	trash receptacles w/conc support	each	\$300.00	2	\$600
h	drinking fountain	each	\$750.00	1	\$750
i	bike rack, prefab galvanized pipe	each	\$350.00	1	\$350
j	parking, 2"asphalt concrete/4"crushed rock, 35 space:	sq ft	\$1.25	10,500	\$13,125
k	wheel stops, 10"x6"x8'precast concrete	each	\$146.00	35	\$5,110
l	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.25	4,800	\$6,000
m	water service, 8"service line	lr ft	\$15.00	500	\$7,500
n	water meter, 2"size	each	\$4,400.00	1	\$4,400

Total construction cost per field \$82,610

a	contingency (design, financing)	8.2%	\$6,774
b	design/engineering fees (const)	12.0%	\$9,913
c	financing costs (design, const)	8.0%	\$7,944
d	contingency (construction)	10.0%	\$10,724

Total development cost per field \$117,965

Baseball field - 300' w/grass/lights/concession

	unit	unit cost	qty	qty cost	
a	clear field, structures, parking, access road	acre	\$1,450.00	3.5	\$5,075
b	earthwork for field, structures, parking, road	cu yd	\$4.40	4,000	\$17,600
c	infield mix w/subdrain	cu yd	\$18.00	296	\$5,333
d	outfield, grass turf/12" sand w/subdrain	sq ft	\$1.46	38,000	\$55,480
e	irrigation system-quick coupler	sq ft	\$0.42	45,000	\$18,900
f	lighting system, 8 poles w/luminaires	system	\$91,000.00	1	\$91,000
g	backstop, 3"pipe posts w/supports, 2"chain link	each	\$5,000.00	1	\$5,000
h	players bench, 8"x8"x10'wood beams w/conc support	each	\$900.00	4	\$3,600
i	spectator stands, movable metal (50 seats)	each	\$5,000.00	2	\$10,000
j	trash receptacles w/conc support	each	\$300.00	2	\$600
k	drinking fountain	each	\$750.00	1	\$750
l	concession facility, warming and refrigeration w/pa sy	sq ft	\$100.00	250	\$25,000
m	bike rack, prefab galvanized pipe	each	\$350.00	1	\$350
n	parking, 2"asphalt concrete/4"crushed rock, 50 space:	sq ft	\$1.25	15,000	\$18,750
o	wheel stops, 10"x6"x8'precast concrete	each	\$146.00	35	\$5,110
p	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.25	4,800	\$6,000
q	water service, 8"service line	lr ft	\$15.00	500	\$7,500
r	water meter, 2"size	each	\$4,400.00	1	\$4,400
Total construction cost per field					\$280,448
a	contingency (design, financing)	8.2%			\$22,997
b	design/engineering fees (const)	12.0%			\$33,654
c	financing costs (design, const)	8.0%			\$26,968
d	contingency (construction)	10.0%			\$36,407
Total development cost per field					\$400,473

Baseball field - 300' w/dirt w/o lights/concession

	unit	unit cost	qty	qty cost	
a	clear field, structures, parking, access road	acre	\$1,450.00	3.5	\$5,075
b	earthwork for field, structures, parking, road	cu yd	\$4.40	4,000	\$17,600
c	infield mix w/subdrain	cu yd	\$18.00	296	\$5,333
d	backstop, 3"pipe posts w/supports, 2"chain link	each	\$5,000.00	1	\$5,000
e	players bench, 8"x8"x10'wood beams w/conc support	each	\$900.00	4	\$3,600
f	spectator stands, movable metal (50 seats)	each	\$5,000.00	2	\$10,000
g	trash receptacles w/conc support	each	\$300.00	2	\$600
h	drinking fountain	each	\$750.00	1	\$750
i	bike rack, prefab galvanized pipe	each	\$350.00	1	\$350
j	parking, 2"asphalt concrete/4"crushed rock, 50 space:	sq ft	\$1.25	15,000	\$18,750
k	wheel stops, 10"x6"x8'precast concrete	each	\$146.00	35	\$5,110
l	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.25	4,800	\$6,000
m	water service, 8"service line	lr ft	\$15.00	500	\$7,500
n	water meter, 2"size	each	\$4,400.00	1	\$4,400
Total construction cost per field					\$90,068
a	contingency (design, financing)	8.2%			\$7,386
b	design/engineering fees (const)	12.0%			\$10,808
c	financing costs (design, const)	8.0%			\$8,661
d	contingency (construction)	10.0%			\$11,692
Total development cost per field					\$128,615

Softball field - 200-300' w/grass/lights/concession

	unit	unit cost	qty	qty cost	
a	clear field, structures, parking, access road	acre	\$1,450.00	0.8	\$1,160
b	earthwork for field, structures, parking, road	cu yd	\$4.40	1,335	\$5,874
c	infield mix w/subdrain	cu yd	\$18.00	150	\$2,700
d	outfield, grass turf/12" sand w/subdrain	sq ft	\$1.46	15,950	\$23,287
e	irrigation system-quick coupler	sq ft	\$0.42	15,950	\$6,699
f	lighting system, 5 poles w/luminaires	system	\$41,250.00	1	\$41,250
g	backstop, 3"pipe posts w/supports, 2"chain link	each	\$5,000.00	1	\$5,000
h	players bench, 8"x8"x10'wood beams w/conc support	each	\$900.00	4	\$3,600
i	spectator stands, movable metal (50 seats)	each	\$5,000.00	2	\$10,000
j	trash receptacles w/conc support	each	\$300.00	2	\$600
k	drinking fountain	each	\$750.00	1	\$750
l	concession facility, warming and refrigeration	sq ft	\$100.00	250	\$25,000
m	bike rack, prefab galvanized pipe	each	\$350.00	1	\$350
n	parking, 2"asphalt concrete/4"crushed rock, 35 space:	sq ft	\$1.25	10,500	\$13,125
o	wheel stops, 10"x6"x8'precast concrete	each	\$146.00	35	\$5,110
p	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.25	4,800	\$6,000
q	water service, 8"service line	lr ft	\$15.00	500	\$7,500
r	water meter, 2"size	each	\$4,400.00	1	\$4,400
Total construction cost per field					\$162,405
a	contingency (design, financing)	8.2%			\$13,317
b	design/engineering fees (const)	12.0%			\$19,489
c	financing costs (design, const)	8.0%			\$15,617
d	contingency (construction)	10.0%			\$21,083
Total development cost per field					\$231,910

Softball field - 200-300' w/dirt w/o lights/concession

	unit	unit cost	qty	qty cost	
a	clear field, structures, parking, access road	acre	\$1,450.00	0.8	\$1,160
b	earthwork for field, structures, parking, road	cu yd	\$4.40	1,335	\$5,874
c	infield mix w/subdrain	cu yd	\$18.00	150	\$2,700
d	backstop, 3"pipe posts w/supports, 2"chain link	each	\$5,000.00	1	\$5,000
e	players bench, 8"x8"x10'wood beams w/conc support	each	\$900.00	4	\$3,600
f	spectator stands, movable metal (50 seats)	each	\$5,000.00	2	\$10,000
g	trash receptacles w/conc support	each	\$300.00	2	\$600
h	drinking fountain	each	\$750.00	1	\$750
i	bike rack, prefab galvanized pipe	each	\$350.00	1	\$350
j	parking, 2"asphalt concrete/4"crushed rock, 35 space:	sq ft	\$1.25	10,500	\$13,125
k	wheel stops, 10"x6"x8'precast concrete	each	\$146.00	35	\$5,110
l	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.25	4,800	\$6,000
m	water service, 8"service line	lr ft	\$15.00	500	\$7,500
n	water meter, 2"size	each	\$4,400.00	1	\$4,400
Total construction cost per field					\$66,169
a	contingency (design, financing)	8.2%			\$5,426
b	design/engineering fees (const)	12.0%			\$7,940
c	financing costs (design, const)	8.0%			\$6,363
d	contingency (construction)	10.0%			\$8,590
Total development cost per field					\$94,488

Parcourse facility - 5 stations/0.25 mile

	unit	unit cost	qty	qty cost	
a	clear/earthwork parcourse corridor	sq ft	\$1.40	8,070	\$11,298
b	crushed rock, 6"depth, 4'wide, 3/8" minus	sq ft	\$0.65	5,380	\$3,497
c	interpretative signs, 4"x4"cedar framed	each	\$200.00	5	\$1,000
d	bench, 8"x8"x10'wood beams w/conc support	each	\$900.00	2	\$1,800
e	trash receptacles w/concrete support	each	\$300.00	2	\$600
Total construction cost per facility					\$18,195
a	contingency (design, financing)	8.2%			\$1,492
b	design/engineering fees (const)	12.0%			\$2,183
c	financing costs (design, const)	8.0%			\$1,750
d	contingency (construction)	10.0%			\$2,362
Total development cost per facility (5 stations)					\$25,982

Jogging track - 0.25 mile w/starting spur

	unit	unit cost	qty	qty cost	
a	clear track, parking, access road	acre	\$1,450.00	0.9	\$1,305
b	earthwork for track, parking, access road	cu yd	\$4.40	1,532	\$6,741
c	12'track, 1"rubber/4"cinder/4"crushed rock	sq ft	\$1.02	18,464	\$18,833
d	bench, 8"x8"x10'wood beams w/conc support	each	\$900.00	2	\$1,800
e	trash receptacles	each	\$300.00	2	\$600
f	drinking fountain, precast concrete	each	\$750.00	1	\$750
g	bike rack, prefab galvanized pipe	each	\$350.00	1	\$350
h	parking, 2"asphalt/4"crushed rock, 10 spaces	sq ft	\$1.25	3,000	\$3,750
i	wheel stops, 10"x6"x8'precast concrete	each	\$146.00	10	\$1,460
j	access road, 2"asphalt/4"crushed rock, 24'x50'	sq ft	\$1.25	1,200	\$1,500
k	water service, 8"service line	lr ft	\$15.00	100	\$1,500
l	water meter, 2"size	each	\$4,400.00	1	\$4,400
Total construction cost per track					\$42,989
a	contingency (design, financing)	8.2%			\$3,525
b	design/engineering fees (const)	12.0%			\$5,159
c	financing costs (design, const)	8.0%			\$4,134
d	contingency (construction)	10.0%			\$5,581
Total development cost per track					\$61,388

Picnic site - 25 table capacity w/o shelter

	unit	unit cost	qty	qty cost	
a	clear picnic sites, parking, access road	acre	\$1,450.00	2.3	\$3,335
b	earthwork for sites, parking, access road	cu yd	\$4.40	3,748	\$16,491
c	picnic tables and benches, 4"x6"wood beams w/conc	each	\$1,100.00	25	\$27,500
d	barbecue stand, metal with iron grill	each	\$300.00	12	\$3,600
e	group barbecue, 3'x8' concrete w/iron grill	each	\$872.00	2	\$1,744
f	trash receptacle, galvanized metal can w/holder	each	\$300.00	12	\$3,600
g	drinking fountain	each	\$750.00	2	\$1,500
h	parking, 2"asphalt concrete/4" crushed rock (50 cars)	sq ft	\$1.25	15,000	\$18,750
i	wheel stops, 10"x6"x8'precast concrete	each	\$146.00	50	\$7,300
j	access road, 2"asphalt concrete/4"crushed rock, 24'x1	sq ft	\$1.25	24,000	\$30,000
k	water service, 8"service line	lr ft	\$15.00	1,000	\$15,000
l	water meter, 2"size	each	\$4,400.00	1	\$4,400
Total construction cost for 25 tables					\$133,220
a	contingency (design, financing)	8.2%			\$10,924
b	design/engineering fees (const)	12.0%			\$15,986
c	financing costs (design, const)	8.0%			\$12,810
d	contingency (construction)	10.0%			\$17,294

Total development cost for 25 tables	\$190,235
Prorated per table	\$7,609

Picnic site - shelter

	unit	unit cost	qty	qty cost
a picnic shelter (20'x30'), cedar pole w/shake roof	each	\$27,000.00	2	\$54,000
Total construction cost for 25 tables				\$54,000
b contingency (design, financing)		8.2%		\$4,428
c design/engineering fees (const)		12.0%		\$6,480
d financing costs (design, const)		8.0%		\$5,193
e contingency (construction)		10.0%		\$7,010
Total development cost for 1 shelter				\$77,111
Prorated per shelter				\$38,555

Swimming beach - 100 swimmer capacity

	unit	unit cost	qty	qty cost
a clear site for improvements	acre	\$1,450.00	0.3	\$435
b earthwork for site improvements	cu yd	\$4.40	511	\$2,248
c beach sand, 6"depth of area 200'x50'	cu yd	\$19.00	200	\$3,800
d safety markers, pilings w/nylon ropes and buoys	each	\$1,100.00	4	\$4,400
e diving/swimming platform, 2"x6"wood over buoys	sq ft	\$28.00	80	\$2,240
f lifeguard stand, 8"cedar poles w/2"x4"framing	each	\$1,400.00	1	\$1,400
g exterior shower facilities	each	\$1,200.00	1	\$1,200
h drinking fountain	each	\$750.00	1	\$750
i restroom/changing facility, 6 stalls w/4 sinks	sq ft	\$100.00	600	\$60,000
j parking, 2"asphalt concrete/4" crushed rock (40 cars)	sq ft	\$1.25	12,000	\$15,000
k wheel stops, 10"x6"x8'precast concrete	each	\$146.00	30	\$4,380
l access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.25	4,800	\$6,000
m water service, 8"service line	lr ft	\$15.00	400	\$6,000
n sewer line, 8"service line	lr ft	\$17.00	400	\$6,800
o fire hydrants	each	\$2,675.00	1	\$2,675
p water meter, 2" size	each	\$4,400.00	1	\$4,400
q trash receptacles	each	\$300.00	4	\$1,200
Total construction cost per site				\$122,928
a contingency (design, financing)		8.2%		\$10,080
b design/engineering fees (const)		12.0%		\$14,751
c financing costs (design, const)		8.0%		\$11,821
d contingency (construction)		10.0%		\$15,958
Total development cost per site				\$175,539
Prorated per parking space (2.5 swimmers/car=40 spaces)				\$4,388

Fishing from a bank or dock - 25 car capacity

	unit	unit cost	qty	qty cost
a clear site improvements	acre	\$1,450.00	0.3	\$363
b earthwork for site improvements	cu yd	\$4.40	550	\$2,420
c pier supported dock, treated wood 12'x100'	sq ft	\$50.00	1,200	\$60,000
d fishing platform, treated wood/styrofoam 12'x20'	sq ft	\$32.00	240	\$7,680
e parking, 2"asphalt concrete/4"crushed rock - 25 space	sq ft	\$1.25	7,500	\$9,375
f wheel stops, 10"x6"x8'precast concrete	each	\$146.00	25	\$3,650
g access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.25	4,800	\$6,000
h picnic tables and benches, 4'x6"wood beams w/concre	each	\$900.00	8	\$7,200
i restroom facility, sanican w/concrete platform	each	\$1,044.00	2	\$2,088
j trash receptacles w/concrete support	each	\$300.00	2	\$600
Total construction cost per site				\$99,376

a	contingency (design, financing)	8.2%	\$8,149
b	design/engineering fees (const)	12.0%	\$11,925
c	financing costs (design, const)	8.0%	\$9,556
d	contingency (construction)	10.0%	\$12,901
Total development cost per facility			\$141,906
Prorated per parking space			\$5,676

Boat launch - 25 boat capacity

	unit	unit cost	qty	qty cost	
a	clear site improvements	acre	\$1,450.00	0.4	\$508
b	earthwork for site improvements	cu yd	\$4.40	2,400	\$10,560
c	boat access ramp, precast concrete ramp units	each	\$17,500.00	1	\$17,500
d	mooring platform, treated wood/styrofoam	sq ft	\$32.00	400	\$12,800
e	bank stabilization/landscape plantings	each	\$6,000.00	1	\$6,000
f	marker buoys and signage	each	\$250.00	4	\$1,000
g	car/trailer parking, 2"asphalt concrete/4"crushed rock	sq ft	\$1.25	12,500	\$15,625
h	wheel stops, 10"x6"x8'precast concrete	each	\$146.00	25	\$3,650
i	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.25	4,800	\$6,000
j	trash receptacles	each	\$300.00	2	\$600
Total construction cost per site				\$74,243	

a	contingency (design, financing)	8.2%	\$6,088
b	design/engineering fees (const)	12.0%	\$8,909
c	financing costs (design, const)	8.0%	\$7,139
d	contingency (construction)	10.0%	\$9,638
Total development cost per ramp			\$106,017
Prorated per boat trailer parking stall			\$4,241

Handboat launch - 10 car capacity

	unit	unit cost	qty	qty cost	
a	clear site improvements	acre	\$1,450.00	0.3	\$363
b	earthwork for site improvements/launching ramp	cu yd	\$4.40	2,400	\$10,560
c	concrete launching ramp	each	\$17,500.00	1	\$17,500
d	launching platform, treated wood/styrofoam 10'x20'	sq ft	\$32.00	200	\$6,400
e	landscape/bank stabilization plantings	each	\$6,000.00	1	\$6,000
f	parking, 2"asphalt concrete/4"crushed rock - 10 space	sq ft	\$1.25	3,000	\$3,750
g	wheel stops, 10"x6"x8'precast concrete	each	\$146.00	10	\$1,460
h	access road, 2"asphalt concrete/4"crushed rock, 24'x1	sq ft	\$1.25	2,400	\$3,000
i	restroom facility, sanican w/concrete platform	each	\$1,044.00	2	\$2,088
j	trash receptacles w/concrete support	each	\$300.00	2	\$600
Total construction cost per site				\$51,721	

a	contingency (design, financing)	8.2%	\$4,241
b	design/engineering fees (const)	12.0%	\$6,206
c	financing costs (design, const)	8.0%	\$4,973
d	contingency (construction)	10.0%	\$6,714
Total development cost per facility			\$73,856
Prorated per parking space			\$7,386

Tent camping - 25 campsite capacity

	unit	unit cost	qty	qty cost	
a	clear camping area, parking, access road	acre	\$1,450.00	5.6	\$8,120
b	earthwork in camping area, parking, access road	cu yd	\$4.40	9,157	\$40,291
c	campsite parking, 2"asphalt concrete/4"crushed rock	sq ft	\$1.25	20,000	\$25,000
d	picnic tables and benches, 4"x6"wood beams w/conc	each	\$1,100.00	25	\$27,500
e	barbecue pits, concrete with iron grill	each	\$300.00	25	\$7,500

f	camp shelter (10'x6'), cedar pole w/shake roof	each	\$2,700.00	25	\$67,500
g	trash receptacle, galvanized can w/4"x4" post	each	\$300.00	25	\$7,500
h	restroom/showering facility, 6 stalls/4 sinks/4 shower	sq ft	\$100.00	850	\$85,000
i	camp directory signs, 4"x4"cedar pole framed	each	\$200.00	20	\$4,000
j	access road, 6"crushed rock, 24'x5,380'	sq ft	\$1.25	129,120	\$161,400
k	water service, 8"service line	lr ft	\$15.00	5,380	\$80,700
l	sewage disposal, campground septic tank drainfield	each	\$20,000.00	1	\$20,000
m	fire hydrant	each	\$2,675.00	1	\$2,675
n	water meter, 2"size	each	\$4,400.00	1	\$4,400

Total construction cost for 25 campsites \$541,586

a	contingency (design, financing)	8.2%	\$44,410
b	design/engineering fees (const)	12.0%	\$64,990
c	financing costs (design, const)	8.0%	\$52,079
d	contingency (construction)	10.0%	\$70,307

Total development cost for 25 campsites \$773,372

Prorated per campsite \$30,935

Group daycamping facility - 100 person capacity

		unit	unit cost	qty	qty cost
a	clear camping site, parking, access road	acre	\$1,450.00	3.1	\$4,495
b	earthwork for sites, parking, access road	cu yd	\$4.40	5,134	\$22,590
c	group campfire/amphitheater, wood stage/benches	each	\$13,000.00	1	\$13,000
d	camp directory signs, 4"x4"cedar pole framed	each	\$200.00	20	\$4,000
e	group cooking, 4'x12' concrete w/iron grill	each	\$1,744.00	2	\$3,488
f	eating shelter (30'x30'), cedar pole w/shake roof	sq ft	\$45.00	900	\$40,500
g	picnic tables and benches, 4"x6"wood beams w/conc	each	\$1,100.00	25	\$27,500
h	trash bin, metal dumpster w/wood fence screen	each	\$1,500.00	3	\$4,500
i	restroom facility, 6 stalls w/4 sinks	sq ft	\$100.00	600	\$60,000
j	drinking fountain	each	\$750.00	1	\$750
k	parking, 2"asphalt concrete/4"crushed rock, 50 cars	sq ft	\$1.25	15,000	\$18,750
l	wheel stops, 10"x6"x8'precast concrete	each	\$146.00	50	\$7,300
m	access road, 2"asphalt concrete/4"crushed rock, 24'x1	sq ft	\$1.25	24,000	\$30,000
n	water service, 8"service line	lr ft	\$15.00	1,000	\$15,000
o	sewage disposal, septic tank w/drainfield	system	\$20,000.00	1	\$20,000
p	fire hydrant	each	\$2,675.00	1	\$2,675
q	water meter, 2"size	each	\$4,400.00	1	\$4,400

Total construction cost per group camp \$278,948

a	contingency (design, financing)	8.2%	\$22,874
b	design/engineering fees (const)	12.0%	\$33,474
c	financing costs (design, const)	8.0%	\$26,824
d	contingency (construction)	10.0%	\$36,212

Total development cost per group camp \$398,330

Prorated per person \$3,983

Recreational vehicle camping - 25 campsite capacity

		unit	unit cost	qty	qty cost
a	clear campsite, parking, access road	acre	\$1,450.00	10.1	\$14,645
b	earthwork for campsite, parking, access road	cu yd	\$4.40	16,460	\$72,424
c	campsite parking, 2"asphalt concrete/4"crushed rock	sq ft	\$1.25	30,000	\$37,500
d	picnic tables and benches, 4"x6"wood beams w/conc	each	\$1,100.00	25	\$27,500
e	barbecue pits, concrete with iron grill	each	\$300.00	25	\$7,500
f	drinking fountain	each	\$750.00	1	\$750
g	trash receptacle, galvanized can w/4"x4" post	each	\$300.00	25	\$7,500
h	sanitary dump facility, 2 stalls	each	\$18,000.00	1	\$18,000

i	camp directory signs, 4"x4" cedar pole framed	each	\$200.00	20	\$4,000
j	access road, 2"asphalt concrete/4"crushed rock, 24'x6'	sq ft	\$1.25	193,680	\$242,100
k	water service, 3"service line	lr ft	\$12.00	8,070	\$96,840
l	water meter, 2"size	each	\$4,400.00	1	\$4,400
Total construction cost for 25 campsites					\$533,159
a	contingency (design, financing)		8.2%		\$43,719
b	design/engineering fees (const)		12.0%		\$63,979
c	financing costs (design, const)		8.0%		\$51,269
d	contingency (construction)		10.0%		\$69,213
Total development cost for 25 campsites					\$761,338
Prorated per campsite					\$30,454

Outdoor swimming pool - 75'x42'=3,150 sf of 294 person capacity

		unit	unit cost	qnty	qnty cost
a	clear pool area, deck, parking, access road	acre	\$1,450.00	1.1	\$1,595
b	earthwork, 1'depth except pool @5'depth	cu yd	\$4.40	2,370	\$10,428
c	diving area, 1 meter board capacity = 3 in pool + 9 in line/board/10'radius = 12 divers/board	sq ft	\$41.00	628	\$25,748
d	swimming area, 50'x42' less diving area reqmnt capacity = 27 sq ft/swimmer with 75% of swimmers in pool = 54 in pool + 18 on deck = 72 swimmers	sq ft	\$41.00	1,472	\$60,352
e	nonswimming area, 25'x42' capacity = 10 sq ft/person with 50% in pool = 105 in pool + 105 on land = 210 persons	sq ft	\$41.00	1,050	\$43,050
f	pool deck, 10'on sides, 20'on ends, tile/concrete	sq ft	\$4.00	1,590	\$6,360
g	lifeguard stand, galvanized pipe w/2"x4"framing	each	\$700.00	2	\$1,400
h	drinking fountain	each	\$750.00	1	\$750
i	locker/shower facility, 20 showers w/50 lockers	sq ft	\$100.00	1,000	\$100,000
j	restroom facility, 10 stalls w/6 sinks	sq ft	\$100.00	1,000	\$100,000
k	concession facility, grill and refrigeration	sq ft	\$100.00	250	\$25,000
l	bike rack, prefab galvanized pipe	each	\$350.00	3	\$1,050
m	parking, 2"asphalt concrete/4"crushed rock, 128 spaces 2.5 swimmers/car = 118 cars + 10 employees = 128	sq ft	\$1.25	38,400	\$48,000
n	wheel stops, 10"x6"x8'precast concrete	each	\$146.00	128	\$18,688
o	access road, 2"asphalt concrete/4"crushed rock, 24'x6'	sq ft	\$1.25	6,000	\$7,500
p	water service, 8"service line	lr ft	\$15.00	400	\$6,000
q	sewer service, 8"side sewer	lr ft	\$17.00	400	\$6,800
r	fire hydrant	each	\$2,675.00	1	\$2,675
s	water meter, 8"size	each	\$10,000.00	1	\$10,000
t	chainlink perimeter fence, 6'	lr ft	\$10.00	317	\$3,170
u	seed grass over 4"topsoil	sq ft	\$0.83	1,564	\$1,298
Total construction cost for 294 swimmers					\$479,864
a	contingency (design, financing)		8.2%		\$39,349
b	design/engineering fees (const)		12.0%		\$57,584
c	financing costs (design, const)		8.0%		\$46,144
d	contingency (construction)		10.0%		\$62,294
Total development cost for 294 swimmers/3,150 sq ft pool)					\$685,234
Prorated per square foot of total pool					\$218

Indoor swimming pool - 75'x42'=3,150 sf of 294 person capacity

		unit	unit cost	qnty	qnty cost
a	clear pool area, deck, parking, access road	acre	\$1,450.00	1.1	\$1,595
b	earthwork, 1'depth except pool @5'depth	cu yd	\$4.40	2,370	\$10,428

c	diving area, 1 meter board capacity = 3 in pool + 9 in line/board/10'radius = 12 divers/board	sq ft	\$41.00	628	\$25,748
d	swimming area, 50'x42' less diving area reqmnt capacity = 27 sq ft/swimmer with 75% of swimmers in pool = 54 in pool + 18 on deck = 72 swimmers	sq ft	\$41.00	1,472	\$60,352
e	nonswimming area, 25'x42' capacity = 10 sq ft/person with 50% in pool = 105 in pool + 105 on land = 210 persons	sq ft	\$41.00	1,050	\$43,050
f	pool deck, 10'on sides, 20'on ends, tile/concrete	sq ft	\$4.00	1,590	\$6,360
g	enclosed structure for pools et.al.	sq ft	\$60.00	4,740	\$284,400
h	lifeguard stand, galvanized pipe w/2"x4"framing	each	\$700.00	2	\$1,400
i	drinking fountain	each	\$750.00	1	\$750
j	locker/shower facility, 20 showers w/50 lockers	sq ft	\$100.00	1,000	\$100,000
k	restroom facility, 10 stalls w/6 sinks	sq ft	\$100.00	1,000	\$100,000
l	concession facility, grill and refrigeration	sq ft	\$100.00	250	\$25,000
m	bike rack, prefab galvanized pipe	each	\$350.00	3	\$1,050
n	parking, 2"asphalt concrete/4"crushed rock, 128 spaces 2.5 swimmers/car = 118 cars + 10 employees = 128	sq ft	\$1.25	38,400	\$48,000
o	wheel stops, 10"x6"x8'precast concrete	each	\$146.00	128	\$18,688
p	access road, 2"asphalt concrete/4"crushed rock, 24'x2'	sq ft	\$1.25	6,000	\$7,500
q	water service, 8"service line	lr ft	\$15.00	400	\$6,000
r	sewer service, 8"side sewer	lr ft	\$17.00	400	\$6,800
s	fire hydrant	each	\$2,675.00	1	\$2,675
t	water meter, 8"size	each	\$10,000.00	1	\$10,000
u	chainlink perimeter fence, 6'	lr ft	\$10.00	317	\$3,170
v	seed grass over 4"topsoil	sq ft	\$0.83	1,564	\$1,298

Total construction cost for 294 swimmers \$764,264

a	contingency (design, financing)	8.2%	\$62,670
b	design/engineering fees (const)	12.0%	\$91,712
c	financing costs (design, const)	8.0%	\$73,492
d	contingency (construction)	10.0%	\$99,214

Total development cost for 294 swimmers/3,150 sq ft pool) \$1,091,351

Prorated per square foot of total pool \$346

Community center - 250 person capacity

	unit	unit cost	qnty	qnty cost	
a	clear building site, parking, access road	acre	\$1,450.00	3	\$4,350
b	earthwork for structure, parking, access road	cu yd	\$4.40	1,613	\$7,099
c	gymnasium, 2 full basketball courts	sq ft	\$80.00	11,280	\$902,400
d	racquetball courts	sq ft	\$95.00	3,680	\$349,600
e	kitchen facility	sq ft	\$75.00	360	\$27,000
f	game/classroom	sq ft	\$65.00	960	\$62,400
g	exercise/aerobics room, 50 persons	sq ft	\$65.00	5,000	\$325,000
h	physical conditioning/hydro/wellness facility	sq ft	\$65.00	2,745	\$178,425
i	office and reception area	sq ft	\$65.00	1,000	\$65,000
j	multipurpose, restroom, locker room, showers	sq ft	\$110.00	3,400	\$374,000
k	bike rack	each	\$350.00	1	\$350
l	parking, 2"asphalt concrete/4"crushed rock, 175 cars	sq ft	\$1.25	52,500	\$65,625
m	wheel stops, 10"x6"x8'precast concrete	each	\$146.00	75	\$10,950
n	access road, 2"asphalt concrete/4"crushed rock, 24'x2'	sq ft	\$1.25	6,000	\$7,500
o	water service, 8"service line	lr ft.	\$15.00	400	\$6,000
p	sewage disposal, 8"service line	lr ft	\$17.00	400	\$6,800
q	fire hydrant	each	\$2,675.00	1	\$2,675

r	water meter, 2"size	each	\$4,400.00	1	\$4,400
s	parking lot lighting, 10 poles	system	\$35,000.00	1	\$35,000
t	art sculpture	each	\$5,000.00	1	\$5,000
Total construction cost per center					\$2,439,574
a	contingency (design, financing)		8.2%		\$200,045
b	design/engineering fees (const)		12.0%		\$292,749
c	financing costs (design, const)		8.0%		\$234,589
d	contingency (construction)		10.0%		\$316,696
Total development cost per center					\$3,483,653
Prorated per square foot					\$122.56

Restroom/support facilities

		unit	unit cost	qty	qty cost
a	restroom facility, 4 stalls w/2 sinks	sq ft	\$100.00	500	\$50,000
b	sewer service, 8"side sewer	lr ft	\$17.00	500	\$8,500
c	water service, 8"service line	lr ft	\$15.00	500	\$7,500
d	fire hydrant	each	\$2,675.00	1	\$2,675
e	water meter, 2"size	each	\$4,400.00	1	\$4,400
Total construction cost per facility/4 fixtures					\$73,075
a	contingency (design, financing)		8.2%		\$5,992
b	design/engineering fees (const)		12.0%		\$8,769
c	financing costs (design, const)		8.0%		\$7,027
d	contingency (construction)		10.0%		\$9,486
Total development cost per 4 stall facility					\$104,349

Source: the Beckwith Consulting Group with Hough Beck & Baird

Prototype trail development costs

Multipurpose trail - 8 foot wide crushed rock (5 miles w/services)

	unit	unit cost	qty	qty cost	
a	clear/grade/earthwork along trail corridor - 12' wide	sq ft	\$0.35	322,800	\$112,980
b	crushed rock, rolled to 4", 3/8" minus - 8' wide	sq ft	\$0.75	215,200	\$161,400
c	trail directory, 4"x4"cedar pole framed	each	\$350.00	20	\$7,000
d	trail bench, 8"x8"x10'wood beams w/conc support	each	\$1,000.00	5	\$5,000
e	trash receptacles w/concrete support	each	\$650.00	10	\$6,500
f	restroom facilities, sanican w/concrete platforms	each	\$1,500.00	2	\$3,000
g	parking, 2" asphalt concrete/4"crushed rock (30 cars)	sq ft	\$1.80	9,000	\$16,200
h	wheel stops, 10"x6"x8'precast concrete	each	\$156.00	30	\$4,680
i	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.80	4,800	\$8,640
Total construction cost per 5 miles				\$325,400	
j	contingency (design, financing)	8.2%		\$26,683	
k	design/engineering fees (const)	12.0%		\$39,048	
l	financing costs (design, const)	8.0%		\$31,290	
m	contingency (construction)	15.0%		\$63,363	
Total development cost per 5 miles				\$485,784	
Prorated per mile				\$97,157	

Multipurpose trail - 8 foot asphalt (5 miles w/services)

	unit	unit cost	qty	qty cost	
a	clear/grade/earthwork along trail corridor - 12' wide	sq ft	\$0.35	322,800	\$112,980
b	2"asphalt over 4"crushed rock - 8' wide	sq ft	\$1.80	215,200	\$387,360
c	trail directory, 4"x4"cedar pole framed	each	\$350.00	20	\$7,000
d	trail bench, 8"x8"x10'wood beams w/conc support	each	\$1,000.00	5	\$5,000
e	trash receptacles w/concrete support	each	\$650.00	10	\$6,500
f	restroom facilities, sanican w/concrete platforms	each	\$1,500.00	2	\$3,000
g	parking, 2" asphalt concrete/4"crushed rock (30 cars)	sq ft	\$1.80	9,000	\$16,200
h	wheel stops, 10"x6"x8'precast concrete	each	\$156.00	30	\$4,680
i	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.80	4,800	\$8,640
Total construction cost per 5 miles				\$551,360	
j	contingency (design, financing)	8.2%		\$45,212	
k	design/engineering fees (const)	12.0%		\$66,163	
l	financing costs (design, const)	8.0%		\$53,019	
m	contingency (construction)	15.0%		\$107,363	
Total development cost per 5 miles				\$823,117	
Prorated per mile				\$164,623	

Multipurpose trail - 10 foot crushed rock (5 miles w/services)

	unit	unit cost	qty	qty cost	
a	clear/grade/earthwork along trail corridor - 14' wide	sq ft	\$0.35	376,600	\$131,810
b	crushed rock, rolled to 4", 3/8" minus - 10' wide	sq ft	\$0.75	269,000	\$201,750
c	trail directory, 4"x4"cedar pole framed	each	\$350.00	20	\$7,000
d	trail bench, 8"x8"x10'wood beams w/conc support	each	\$1,000.00	5	\$5,000
e	trash receptacles w/concrete support	each	\$650.00	10	\$6,500
f	restroom facilities, sanican w/concrete platforms	each	\$1,500.00	2	\$3,000
g	parking, 2" asphalt concrete/4"crushed rock (30 cars)	sq ft	\$1.80	9,000	\$16,200
h	wheel stops, 10"x6"x8'precast concrete	each	\$156.00	30	\$4,680
i	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.80	4,800	\$8,640
Total construction cost per 5 miles				\$384,580	
j	contingency (design, financing)	8.2%		\$31,536	
k	design/engineering fees (const)	12.0%		\$46,150	
l	financing costs (design, const)	8.0%		\$36,981	

m contingency (construction)	15.0%	\$74,887
Total development cost per 5 miles		\$574,133
Prorated per mile		\$114,827

Multipurpose trail - 10 foot asphalt (5 miles w/services)

	unit	unit cost	qty	qty cost
a clear/grade/earthwork along trail corridor - 14' wide	sq ft	\$0.35	376,600	\$131,810
b 2"asphalt over 4"crushed rock - 10' wide	sq ft	\$1.80	269,000	\$484,200
c trail directory, 4"x4"cedar pole framed	each	\$350.00	20	\$7,000
d trail bench, 8"x8"x10'wood beams w/conc support	each	\$1,000.00	5	\$5,000
e trash receptacles w/concrete support	each	\$650.00	10	\$6,500
f restroom facilities, sanican w/concrete platforms	each	\$1,500.00	2	\$3,000
g parking, 2" asphalt concrete/4"crushed rock (30 cars)	sq ft	\$1.80	9,000	\$16,200
h wheel stops, 10"x6"x8'precast concrete	each	\$156.00	30	\$4,680
i access road, 2"asphalt concrete/4"crushed rock, 24'x2'	sq ft	\$1.80	4,800	\$8,640
Total construction cost per 5 miles				\$667,030
j contingency (design, financing)	8.2%			\$54,696
k design/engineering fees (const)	12.0%			\$80,044
l financing costs (design, const)	8.0%			\$64,142
m contingency (construction)	15.0%			\$129,887
Total development cost per 5 miles				\$995,798
Prorated per mile				\$199,160

Park walking trail class 1 - crushed rock (1 mile w/o services)

	unit	unit cost	qty	qty cost
a clear/grade/earthwork trail corridor - 10' wide	sq ft	\$0.35	53,800	\$18,830
b crushed rock, 6"depth, 3/8" minus - 6' wide	sq ft	\$0.65	32,280	\$20,982
c interpretative signs, 4"x4"cedar framed	each	\$1,000.00	5	\$5,000
d trail bench, 8"x8"x10'wood beams w/conc support	each	\$1,000.00	10	\$10,000
e trash receptacles w/concrete support	each	\$650.00	2	\$1,300
Total construction cost per mile				\$56,112
f contingency (design, financing)	8.2%			\$4,601
g design/engineering fees (const)	12.0%			\$6,733
h financing costs (design, const)	8.0%			\$5,396
i contingency (construction)	15.0%			\$10,926
Total development cost per mile				\$83,769

Park walking trail class 1 - asphalt (1 mile w/o services)

	unit	unit cost	qty	qty cost
a clear/grade/earthwork trail corridor - 10' wide	sq ft	\$0.35	53,800	\$18,830
b 2"asphalt over 4"crushed rock - 6' wide	sq ft	\$1.80	32,280	\$58,104
c interpretative signs, 4"x4"cedar framed	each	\$200.00	5	\$1,000
d trail bench, 8"x8"x10'wood beams w/conc support	each	\$1,000.00	10	\$10,000
e trash receptacles w/concrete support	each	\$650.00	2	\$1,300
Total construction cost per mile				\$89,234
f contingency (design, financing)	8.2%			\$7,317
g design/engineering fees (const)	12.0%			\$10,708
h financing costs (design, const)	8.0%			\$8,581
i contingency (construction)	15.0%			\$17,376
Total development cost per mile				\$133,216

Park walking trail class 2 - crushed rock (1 mile w/o services)

	unit	unit cost	qty	qty cost	
a	clear/grade/earthwork trail corridor - 8' wide	sq ft	\$0.35	43,040	\$15,064
b	crushed rock, 6" depth, 3/8" minus - 5' wide	sq ft	\$0.65	26,900	\$17,485
c	interpretative signs, 4"x4" cedar framed	each	\$1,000.00	5	\$5,000
d	trail bench, 8"x8"x10' wood beams w/conc support	each	\$1,000.00	10	\$10,000
e	trash receptacles w/concrete support	each	\$650.00	2	\$1,300
Total construction cost per mile					\$48,849
f	contingency (design, financing)	8.2%			\$4,006
g	design/engineering fees (const)	12.0%			\$5,862
h	financing costs (design, const)	8.0%			\$4,697
i	contingency (construction)	15.0%			\$9,512
Total development cost per mile					\$72,926

Park walking trail class 2 - asphalt (1 mile w/o services)

	unit	unit cost	qty	qty cost	
a	clear/grade/earthwork trail corridor - 8' wide	sq ft	\$0.35	43,040	\$15,064
b	2" asphalt over 4" crushed rock - 5' wide	sq ft	\$1.80	26,900	\$48,420
c	interpretative signs, 4"x4" cedar framed	each	\$200.00	5	\$1,000
d	trail bench, 8"x8"x10' wood beams w/conc support	each	\$1,000.00	10	\$10,000
e	trash receptacles w/concrete support	each	\$650.00	2	\$1,300
Total construction cost per mile					\$75,784
f	contingency (design, financing)	8.2%			\$6,214
g	design/engineering fees (const)	12.0%			\$9,094
h	financing costs (design, const)	8.0%			\$7,287
i	contingency (construction)	15.0%			\$14,757
Total development cost per mile					\$113,137

Day hiking trail class 3 - crushed rock (5 miles w/services)

	unit	unit cost	qty	qty cost	
a	clear/grade/earthwork along trail corridor - 6' wide	sq ft	\$0.35	161,400	\$56,490
b	crushed rock, rolled to 4", 3/8" minus - 4' wide	sq ft	\$0.75	107,600	\$80,700
c	trail directory, 4"x4" cedar pole framed	each	\$350.00	20	\$7,000
d	trail bench, 8"x8"x10' wood beams w/conc support	each	\$1,000.00	5	\$5,000
e	trash receptacles w/concrete support	each	\$650.00	10	\$6,500
f	restroom facilities, sanican w/concrete platforms	each	\$1,500.00	2	\$3,000
g	parking, 2" asphalt concrete/4" crushed rock (30 cars)	sq ft	\$1.80	9,000	\$16,200
h	wheel stops, 10"x6"x8' precast concrete	each	\$156.00	30	\$4,680
i	access road, 2" asphalt concrete/4" crushed rock, 24'x2'	sq ft	\$1.80	4,800	\$8,640
Total construction cost per 5 miles					\$188,210
j	contingency (design, financing)	8.2%			\$15,433
k	design/engineering fees (const)	12.0%			\$22,585
l	financing costs (design, const)	8.0%			\$18,098
m	contingency (construction)	15.0%			\$36,649
Total development cost per 5 miles					\$280,976
Prorated per mile					\$56,195

Day hiking trail class 3 - asphalt (5 miles w/services)

	unit	unit cost	qty	qty cost	
a	clear/grade/earthwork along trail corridor - 6' wide	acre	\$0.35	161,400	\$56,490
b	2" asphalt over 4" crushed rock - 4' wide	sq ft	\$1.80	107,600	\$193,680
c	trail directory, 4"x4" cedar pole framed	each	\$350.00	20	\$7,000
d	trail bench, 8"x8"x10' wood beams w/conc support	each	\$1,000.00	5	\$5,000
e	trash receptacles w/concrete support	each	\$650.00	10	\$6,500

f	restroom facilities, sanican w/concrete platforms	each	\$1,500.00	2	\$3,000
g	parking, 2" asphalt concrete/4"crushed rock (30 cars)	sq ft	\$1.80	9,000	\$16,200
h	wheel stops, 10"x6"x8'precast concrete	each	\$156.00	30	\$4,680
i	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.80	4,800	\$8,640
Total construction cost per 5 miles					\$301,190
j	contingency (design, financing)	8.2%			\$24,698
k	design/engineering fees (const)	12.0%			\$36,143
l	financing costs (design, const)	8.0%			\$28,962
m	contingency (construction)	15.0%			\$58,649
Total development cost per 5 miles					\$449,642
Prorated per mile					\$89,928

Day hiking trail class 4 - crushed rock (5 miles w/services)

		unit	unit cost	qty	qty cost
a	clear/grade/earthwork along trail corridor - 5' wide	sq ft	\$0.35	134,500	\$47,075
b	crushed rock, rolled to 4", 3/8" minus - 3' wide	sq ft	\$0.75	80,700	\$60,525
c	trail directory, 4"x4"cedar pole framed	each	\$350.00	20	\$7,000
d	trail bench, 8"x8"x10'wood beams w/conc support	each	\$1,000.00	5	\$5,000
e	trash receptacles w/concrete support	each	\$650.00	10	\$6,500
f	restroom facilities, sanican w/concrete platforms	each	\$1,500.00	2	\$3,000
g	parking, 2" asphalt concrete/4"crushed rock (30 cars)	sq ft	\$1.80	9,000	\$16,200
h	wheel stops, 10"x6"x8'precast concrete	each	\$156.00	30	\$4,680
i	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.80	4,800	\$8,640
Total construction cost per 5 miles					\$158,620
j	contingency (design, financing)	8.2%			\$13,007
k	design/engineering fees (const)	12.0%			\$19,034
l	financing costs (design, const)	8.0%			\$15,253
m	contingency (construction)	15.0%			\$30,887
Total development cost per 5 miles					\$236,801
Prorated per mile					\$47,360

Day hiking trail class 5 - compacted dirt (10 miles w/services)

		unit	unit cost	qty	qty cost
a	clear/grade/earthwork along trail corridor - 4' wide	sq ft	\$0.20	215,200	\$43,040
b	finish grade compacted dirt trail - 2' wide	sq ft	\$0.15	107,600	\$16,140
c	trail directory, 4"x4"cedar pole framed	each	\$350.00	40	\$14,000
d	trail bench, 8"x8"x10'wood beams w/conc support	each	\$1,000.00	10	\$10,000
e	trash receptacles w/concrete support	each	\$650.00	20	\$13,000
f	restroom facilities, sanican w/concrete platforms	each	\$1,500.00	4	\$6,000
g	parking, 2" asphalt concrete/4"crushed rock (30 cars)	sq ft	\$1.80	9,000	\$16,200
h	wheel stops, 10"x6"x8'precast concrete	each	\$156.00	30	\$4,680
i	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.80	4,800	\$8,640
Total construction cost per 10 miles					\$131,700
j	contingency (design, financing)	8.2%			\$10,799
k	design/engineering fees (const)	12.0%			\$15,804
l	financing costs (design, const)	8.0%			\$12,664
m	contingency (construction)	15.0%			\$25,645
Total development cost per 10 miles					\$196,613
Prorated per mile					\$19,661

trailhead & access,	
horse trailheads.....	164
multipurpose trailheads	207
rail trails	217-221
off-road mountain bike trailhead (see Biking)	185
water trail access/launch site, existing and proposed	161-162
trails,	
horse riding trails,	
existing/proposed sites trails.....	162-163
land requirements	91-93, 93-96
standards for demand (participation model).....	91-93, 104
map	167
mountain bike trail (see Biking)	
multipurpose trails,	
existing/proposed sites.....	199-201
map	203
off-road mountain bike trails (see Biking)	
rail trails,	
existing/proposed sites.....	216-217
map	219
water trails,	
existing/proposed trail systems	157-158
map	159
walking and hiking trails (city-wide)	
clearance classes (drawings).....	173
existing/proposed sites.....	177-179
walking and hiking trails (in parks),	
standards for demand (participation model) (local park trails).....	91-93, 102
standards for demand (participation model) (off road walking & hiking).....	91-93, 103-104
existing/proposed sites.....	170-172
maps.....	175, 181
Volleyball courts, outdoor	
goals and objectives	31-37
standards for demand (participation model).....	91-93, 106
existing/proposed sites.....	229-230
map	231
PLOS development costs	APP 33-35, APP 38-41 (Appendix)
Waterfront access and swimming beaches	
goals and objectives	31-37
beach swimming - standards for demand (participation model)	91-93, 101
land requirements.....	93-95
existing/proposed sites access points.....	145
map	147
PLOS development costs	APP 33-35, APP 38-41 (Appendix)

Shoreline hiking trail - access improvements only (5 miles w/services)

	unit	unit cost	qty	qty cost	
a	clear/grade/earthwork for site improvements	sq ft	\$0.35	10,890	\$3,812
b	landscape/bank stabilization plantings about access s	sq ft	\$2.50	2,723	\$6,806
c	picnic tables and benches, 4"x6"wood beams w/conc :	each	\$1,100.00	3	\$3,300
d	barbecue pits, concrete with iron grill	each	\$300.00	3	\$900
e	trail shelter (10'x6'), cedar pole w/shake roof	each	\$2,700.00	1	\$2,700
f	trail directory signs, 4"x4"cedar pole framed	each	\$200.00	10	\$2,000
g	parking, 2"asphalt concrete/4"crushed rock - 10 space	sq ft	\$1.80	3,000	\$5,400
h	wheel stops, 10"x6"x8'precast concrete	each	\$156.00	10	\$1,560
i	access road, 2"asphalt concrete/4"crushed rock, 24'x1	sq ft	\$1.80	2,400	\$4,320
j	restroom facility, sanican w/concrete platform	each	\$1,500.00	2	\$3,000
k	trash receptacles w/concrete support	each	\$650.00	2	\$1,300
Total construction cost per 5 miles					\$35,098
l	contingency (design, financing)		8.2%		\$2,878
m	design/engineering fees (const)		12.0%		\$4,212
n	financing costs (design, const)		8.0%		\$3,375
o	contingency (construction)		15.0%		\$6,834
Total development cost per 5 miles					\$52,397
Prorated per mile/access site					\$10,479

Off-road mountain biking trail class 1 - dirt (10 miles w/services)

	unit	unit cost	qty	qty cost	
a	clear/grade/earthwork along trail corridor - 6' wide	sq ft	\$0.20	322,800	\$64,560
b	finish grade bike trail - 2' wide	sq ft	\$0.15	107,600	\$16,140
c	trail directory, 4"x4"cedar pole framed	each	\$350.00	10	\$3,500
d	trail bench, 8"x8"x10'wood beams w/conc support	each	\$1,000.00	10	\$10,000
e	bike rack, prefab galvanized pipe (54 bikes)	each	\$900.00	1	\$900
f	trash receptacles w/concrete support	each	\$650.00	5	\$3,250
g	restroom facilities, sani-can w/concrete platform	each	\$1,500.00	2	\$3,000
h	parking, 2"asphalt concrete/4"crushed rock (20 cars)	sq ft	\$1.80	6,000	\$10,800
i	wheel stops, 10"x6"x8'precast concrete	each	\$156.00	20	\$3,120
j	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.80	4,800	\$8,640
Total construction cost per 10 miles					\$123,910
k	contingency (design, financing)		8.2%		\$10,161
l	design/engineering fees (const)		12.0%		\$14,869
m	financing costs (design, const)		8.0%		\$11,915
n	contingency (construction)		15.0%		\$24,128
Total development cost per 10 miles					\$184,983
Prorated per mile					\$18,498

Off-road mountain biking trail class 2 - dirt (20 miles w/services)

	unit	unit cost	qty	qty cost	
a	clear/grade/earthwork along trail corridor - 5' wide	sq ft	\$0.20	538,000	\$107,600
b	finish grade bike trail - 1.5' wide	sq ft	\$0.15	161,400	\$24,210
c	trail directory, 4"x4"cedar pole framed	each	\$350.00	20	\$7,000
d	trail bench, 8"x8"x10'wood beams w/conc support	each	\$1,000.00	15	\$15,000
e	bike rack, prefab galvanized pipe (54 bikes)	each	\$900.00	2	\$1,800
f	trash receptacles w/concrete support	each	\$650.00	10	\$6,500
g	restroom facilities, sani-can w/concrete platform	each	\$1,500.00	2	\$3,000
h	parking, 2"asphalt concrete/4"crushed rock (20 cars)	sq ft	\$1.80	6,000	\$10,800
i	wheel stops, 10"x6"x8'precast concrete	each	\$156.00	20	\$3,120
j	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.80	4,800	\$8,640
Total construction cost per 20 miles					\$187,670

k	contingency (design, financing)	8.2%	\$15,389
l	design/engineering fees (const)	12.0%	\$22,520
m	financing costs (design, const)	8.0%	\$18,046
n	contingency (construction)	15.0%	\$36,544
Total development cost per 20 miles			\$280,170
Prorated per mile			\$14,008

Off-road mountain biking trail class 3 - dirt (25 miles w/services)

	unit	unit cost	qty	qty cost	
a	clear/grade/earthwork along trail corridor - 4' wide	sq ft	\$0.20	538,000	\$107,600
b	finish grade bike trail - 1' wide	sq ft	\$0.15	134,500	\$20,175
c	trail directory, 4"x4"cedar pole framed	each	\$350.00	25	\$8,750
d	trail bench, 8"x8"x10'wood beams w/conc support	each	\$1,000.00	20	\$20,000
e	bike rack, prefab galvanized pipe (54 bikes)	each	\$900.00	3	\$2,700
f	trash receptacles w/concrete support	each	\$650.00	15	\$9,750
g	restroom facilities, sani-can w/concrete platform	each	\$1,500.00	2	\$3,000
h	parking, 2"asphalt concrete/4"crushed rock (20 cars)	sq ft	\$1.80	6,000	\$10,800
i	wheel stops, 10"x6"x8'precast concrete	each	\$156.00	20	\$3,120
j	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.80	4,800	\$8,640
Total construction cost per 25 miles				\$194,535	
k	contingency (design, financing)	8.2%	\$15,952		
l	design/engineering fees (const)	12.0%	\$23,344		
m	financing costs (design, const)	8.0%	\$18,706		
n	contingency (construction)	15.0%	\$37,881		
Total development cost per 25 miles			\$290,418		
Prorated per mile			\$11,617		

Off-road bicycling trail AASHTO class 1 - crushed rock (5 miles w/services)

	unit	unit cost	qty	qty cost	
a	clear/grade/earthwork along trail corridor - 14' wide	sq ft	\$0.35	376,600	\$131,810
b	crushed rock, rolled to 4", 3/8" minus - 10' wide	sq ft	\$0.75	269,000	\$201,750
c	trail directory, 4"x4"cedar pole framed	each	\$350.00	20	\$7,000
d	trail bench, 8"x8"x10'wood beams w/conc support	each	\$1,000.00	10	\$10,000
e	bike rack, prefab galvanized pipe (54 bikes)	each	\$900.00	1	\$900
f	trash receptacles w/concrete support	each	\$650.00	10	\$6,500
g	restroom facilities, sani-can w/concrete platform	each	\$1,500.00	2	\$3,000
h	parking, 2"asphalt concrete/4"crushed rock (30 cars)	sq ft	\$1.80	9,000	\$16,200
i	wheel stops, 10"x6"x8'precast concrete	each	\$156.00	30	\$4,680
j	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.80	4,800	\$8,640
Total construction cost per 5 miles				\$390,480	
k	contingency (design, financing)	8.2%	\$32,019		
l	design/engineering fees (const)	12.0%	\$46,858		
m	financing costs (design, const)	8.0%	\$37,549		
n	contingency (construction)	15.0%	\$76,036		
Total development cost per 5 miles			\$582,941		
Prorated per mile			\$116,588		

Off-road bicycling trail AASHTP class 1- asphalt (5 miles w/services)

	unit	unit cost	qty	qty cost	
a	clear/grade/earthwork along trail corridor - 14' wide	sq ft	\$0.35	376,600	\$131,810
b	class 2 asphalt 2"crushed rock - 10'wide	sq ft	\$1.80	269,000	\$484,200
c	trail directory, 4"x4"cedar pole framed	each	\$350.00	20	\$7,000
d	trail bench, 8"x8"x10'wood beams w/conc support	each	\$1,000.00	10	\$10,000
e	bike rack, prefab galvanized pipe (54 bikes)	each	\$900.00	1	\$900

f	trash receptacles w/concrete support	each	\$650.00	10	\$6,500
g	restroom facilities, sani-can w/concrete platform	each	\$1,500.00	2	\$3,000
h	parking, 2"asphalt concrete/4"crushed rock (30 cars)	sq ft	\$1.80	9,000	\$16,200
i	wheel stops, 10"x6"x8'precast concrete	each	\$156.00	30	\$4,680
j	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.80	4,800	\$8,640
Total construction cost per 5 miles					\$672,930
k	contingency (design, financing)		8.2%		\$55,180
l	design/engineering fees (const)		12.0%		\$80,752
m	financing costs (design, const)		8.0%		\$64,709
n	contingency (construction)		15.0%		\$131,036
Total development cost per 5 miles					\$1,004,606
Prorated per mile					\$200,921

On-road bicycle touring AASHTO class 2 - bicycle lane both sides (10 miles w/o svcs)

		unit	unit cost	qnty	qnty cost
a	clear/grade/earthwork along road shoulder - 8' wide	sq ft	\$0.35	860,800	\$301,280
b	asphalt, 2"class 1/4"crushed rock - 6' wide	sq ft	\$1.80	645,600	\$1,162,080
c	pavement markings, paint stripes and symbols	lr ft	\$1.00	107,600	\$107,600
d	route directory, steel post w/reflective sign	each	\$100.00	80	\$8,000
Total construction cost per 10 miles					\$1,578,960
e	contingency (design, financing)		8.2%		\$129,475
f	design/engineering fees (const)		12.0%		\$189,475
g	financing costs (design, const)		8.0%		\$151,833
h	contingency (construction)		15.0%		\$307,461
Total development cost per 10 miles					\$2,357,204
Prorated per mile					\$235,720

On-road bicycle touring AASHTO class 3 - road shoulder both sides (10 miles w/o svcs)

		unit	unit cost	qnty	qnty cost
a	clear/grade/earthwork along road shoulder - 6' wide	sq ft	\$0.35	645,600	\$225,960
b	asphalt, 2"class 1/4"crushed rock - 4' wide	sq ft	\$1.80	430,400	\$774,720
c	pavement markings, paint stripes and symbols	lr ft	\$0.50	107,600	\$53,800
d	route directory, steel post w/reflective sign	each	\$100.00	80	\$8,000
Total construction cost per 10 miles					\$1,062,480
e	contingency (design, financing)		8.2%		\$87,123
f	design/engineering fees (const)		12.0%		\$127,498
g	financing costs (design, const)		8.0%		\$102,168
h	contingency (construction)		15.0%		\$206,890
Total development cost per 10 miles					\$1,586,159
Prorated per mile					\$158,616

On-road bicycle touring AASHTO class 4 - in lane (10 miles w/o services)

	unit	unit cost	qty	qty cost
a pavement markings, paint symbols and occasional s	lr ft	\$1.00	107,600	\$107,600
b route directory, steel post w/reflective sign	each	\$100.00	80	\$8,000
Total construction cost per 10 miles				\$115,600
c contingency (design, financing)	8.2%			\$9,479
d design/engineering fees (const)	12.0%			\$13,872
e financing costs (design, const)	8.0%			\$11,116
f contingency (construction)	15.0%			\$22,510
Total development cost per 10 miles				\$172,577
Prorated per mile				\$17,258

Horse trail - separate trail (5 miles w/services)

	unit	unit cost	qty	qty cost
a clear/grade/earthwork along trail corridor - 6' wide	sq ft	\$0.20	32,280	\$6,456
b finish grade horse trail, compacted dirt - 2' wide	sq ft	\$0.15	10,760	\$1,614
c trail directory, 4"x4"cedar pole framed	each	\$350.00	20	\$7,000
d hitching posts, galvanized pipe w/cedar posts	each	\$500.00	10	\$5,000
e trash receptacles w/concrete support	each	\$650.00	4	\$2,600
f restroom facilities, sanican w/concrete platform	each	\$1,500.00	2	\$3,000
g trailer parking, 2"asphalt concrete/4"crushed rock (20	sq ft	\$1.80	10,000	\$18,000
h wheel stops, 10"x6"x8'precast concrete	each	\$156.00	20	\$3,120
i access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.80	4,800	\$8,640
Total construction cost per 5 miles				\$55,430
j contingency (design, financing)	8.2%			\$4,545
k design/engineering fees (const)	12.0%			\$6,652
l financing costs (design, const)	8.0%			\$5,330
m contingency (construction)	15.0%			\$10,794
Total development cost per 5 miles				\$82,751
Prorated per mile				\$16,550

Water trailhead - access improvements for handboat launch and campsite (5 miles w/svs)

	unit	unit cost	qty	qty cost
a clear/grade/earthwork for site improvements	sq ft	\$0.35	10,890	\$3,812
b landscape/bank stabilization plantings about site	sq ft	\$2.50	2,723	\$6,806
c picnic tables and benches, 4"x6"wood beams w/conc :	each	\$1,100.00	3	\$3,300
d barbecue pits, concrete with iron grill	each	\$300.00	2	\$600
e camp shelter (10'x6'), cedar pole w/shake roof	each	\$2,700.00	1	\$2,700
f camp directory signs, 4"x4"cedar pole framed	each	\$200.00	10	\$2,000
g restroom facility, sanican w/concrete platform	each	\$1,500.00	2	\$3,000
h trash receptacles w/concrete support	each	\$650.00	2	\$1,300
i parking, 2"asphalt concrete/4"crushed rock - 10 space	sq ft	\$1.80	3,000	\$5,400
j wheel stops, 10"x6"x8'precast concrete	each	\$156.00	10	\$1,560
k access road, 2"asphalt concrete/4"crushed rock, 24'x1	sq ft	\$1.80	2,400	\$4,320
Total construction cost per 5 miles				\$34,798
l contingency (design, financing)	8.2%			\$2,853
m design/engineering fees (const)	12.0%			\$4,176
n financing costs (design, const)	8.0%			\$3,346
o contingency (construction)	15.0%			\$6,776
Total development cost per 5 miles				\$51,949
Prorated per mile/access site				\$10,390

Trailhead - w/sanican services

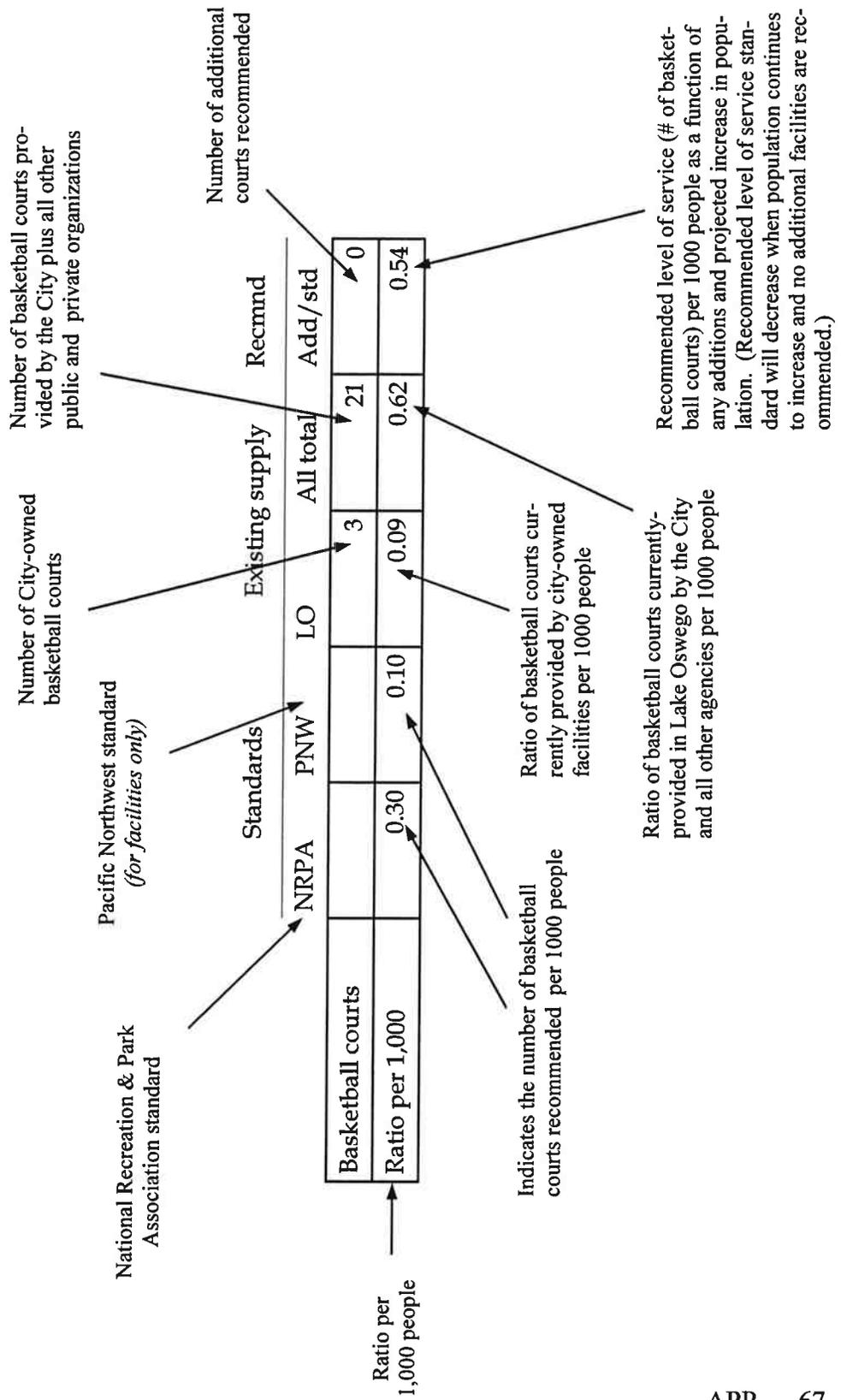
	unit	unit cost	qnty	qnty cost	
a	clear/grade/earthwork for site improvements	sq ft	\$0.35	10,890	\$3,812
b	landscape/bank stabilization plantings about site	sq ft	\$2.50	2,723	\$6,806
c	trail directory, 4"x4"cedar pole framed	each	\$350.00	2	\$700
d	trail bench, 8"x8"x10'wood beams w/conc support	each	\$1,000.00	3	\$3,000
e	bike rack, prefab galvanized pipe (54 bikes)	each	\$900.00	1	\$900
f	trash receptacles w/concrete support	each	\$650.00	2	\$1,300
g	restroom facilities, sani-can w/concrete platform	each	\$1,500.00	2	\$3,000
h	parking, 2"asphalt concrete/4"crushed rock (30 cars)	sq ft	\$1.80	9,000	\$16,200
i	wheel stops, 10"x6"x8'precast concrete	each	\$156.00	30	\$4,680
j	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.80	4,800	\$8,640
Total construction cost per 5 miles				\$49,038	
k	contingency (design, financing)	8.2%		\$4,021	
l	design/engineering fees (const)	12.0%		\$5,885	
m	financing costs (design, const)	8.0%		\$4,715	
n	contingency (construction)	15.0%		\$9,549	
Total development cost per site				\$73,208	

Trailhead - w/permanent restroom facilities

	unit	unit cost	qnty	qnty cost	
a	clear/grade/earthwork for site improvements	sq ft	\$0.35	10,890	\$3,812
b	landscape/bank stabilization plantings about site	sq ft	\$2.50	2,723	\$6,806
c	trail directory, 4"x4"cedar pole framed	each	\$350.00	2	\$700
d	trail bench, 8"x8"x10'wood beams w/conc support	each	\$1,000.00	3	\$3,000
e	bike rack, prefab galvanized pipe (54 bikes)	each	\$900.00	1	\$900
f	trash receptacles w/concrete support	each	\$650.00	2	\$1,300
g	restroom facility, 4 stalls w/2 sinks	sq ft	\$125.00	500	\$62,500
h	sewer service, 8" side sewer	lr ft	\$17.00	500	\$8,500
i	water service, 8" service line	lr ft	\$15.00	500	\$7,500
j	fire hydrant	each	\$2,675.00	1	\$2,675
k	water meter, 2" size	each	\$4,400.00	1	\$4,400
l	parking, 2"asphalt concrete/4"crushed rock (30 cars)	sq ft	\$1.80	9,000	\$16,200
m	wheel stops, 10"x6"x8'precast concrete	each	\$156.00	30	\$4,680
n	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.80	4,800	\$8,640
Total construction cost per 5 miles				\$131,613	
o	contingency (design, financing)	8.2%		\$10,792	
p	design/engineering fees (const)	12.0%		\$15,794	
q	financing costs (design, const)	8.0%		\$12,656	
r	contingency (construction)	15.0%		\$25,628	
Total development cost per site				\$196,483	

Source: Beckwith Consulting Group with Hough Beck & Baird, Landscape Architects

KEY TO INTERPRETING LAND AND FACILITY DEMAND CHARTS





INDEX

INDEX

Development Recommendations by Activity,

Amphitheaters		
goals and objectives	31-37	
land requirements	91-93, 97-98	
standards for demand (participation model).....	91-93, 112	
existing/proposed sites.....	291	
map	293	
PLOS development costs	APP 33-35, APP 38-41 (Appendix)	
Baseball/softball fields		
goals and objectives	31-37	
land requirements	91-93, 96-97	
standards for demand (participation model).....	91-93, 108	
existing/proposed sites.....	247, 251	
map	249, 253	
PLOS development costs	APP 33-35, APP 38-41 (Appendix)	
Technical findings and implications <i>June 23, 2001 Athletic Field Requirements</i> (Appendix)		
Basketball courts, outdoor		
goals and objectives	31-37	
standards for demand (participation model).....	91-93, 105	
existing.....	229	
map	231	
PLOS development costs	APP 33-35, APP 38-41 (Appendix)	
Beach swimming (See Swimming)		
Biking		
goals and objectives	31-37	
off-road mountain bike trails,		
existing/proposed sites	184	
map	189	
PLOS development costs.....	APP 33-35, APP 38-41 (Appendix)	
on-road bicycle tour routes,		
standards for demand (participation model)	91-93, 103-104	
existing and proposed.....	191-193	
map	197	
PLOS development costs.....	APP 33-35, APP 38-41 (Appendix)	
trailhead & access, off-road mountain bike trails.....		185

Boating	
goals and objectives	31-37
land requirements	91-93, 95
standards for demand (participation model).....	91-93, 101
PLOS development costs	APP 33-35, APP 38-41 (Appendix)
Hand-carry boat launch sites,	
existing/proposed sites	141-142
map	143
Powerboat launch ramps,	
existing/abandoned and proposed sites.....	136-137
map.....	139
Camping, tent and vehicle	
land requirements	91-93, 95
standards for demand (participation model).....	91-93, 102
Community centers, indoor	
goals and objectives	31-37
land requirements	91-93, 97-98
standards for demand (participation model).....	91-93, 110
Arts and craft facilities,	
existing/proposed sites	267
map	269
PLOS development costs.....	APP 33-35, APP 38-41 (Appendix)
Auditorium, stages, and large meeting facilities	
existing/proposed sites	275
map	277
PLOS development costs.....	APP 33-35, APP 38-41 (Appendix)
Child center,	
daycare and pre-school,	
existing/proposed sites	283
map	285
PLOS development costs.....	APP 33-35, APP 38-41 (Appendix)
before/after school	
existing	287
Classroom, meeting, and small training rooms	
existing/proposed sites	271-272
map	273
PLOS development costs.....	APP 33-35, APP 38-41 (Appendix)
Kitchen and dining facilities	
existing/proposed sites	279
map	281
PLOS development costs.....	APP 33-35, APP 38-41 (Appendix)

Senior center	
existing/proposed sites	287
map	289
PLOS development costs	APP 33-35, APP 38-41 (Appendix)
Teen center	
existing/proposed sites	287
map	289
PLOS development costs	APP 33-35, APP 38-41 (Appendix)
See also Recreation Center, indoor	
Conservancies, environmental	127-128
goals and objectives	31-37
land requirements, standards for demand (participation model)	90-95
Conservancies, historical	128-129
goals and objectives	31-37
existing/proposed sites	129-131
map	133
PLOS development costs	APP 33-35, APP 38-41 (Appendix)
Fishing	
goals and objectives	31-37
land requirements	91-93, 95
standards for demand (participation model)	91-93, 101
PLOS development costs	APP 33-35, APP 38-41 (Appendix)
Football fields	
goals and objectives	31-37
land requirements	91-93, 96-97
standards for demand (participation model)	91-93, 107
existing sites	243
map	245
PLOS development costs	APP 33-35, APP 38-41 (Appendix)
Gateways (See Streetscape corridors and improvements)	
Golf courses	
goals and objectives	31-37
land requirements	91-93, 98
standards for demand (participation model)	91-93, 111-112
existing	295
map	297
Gun & archery ranges	
goals and objectives	31-37
land requirements	91-93, 98
standards for demand (participation model)	91-93, 112

Historical sites (see Conservancies, historical)	
Lacrosse	
goals and objectives	31-37
proposed level of service additions by activity	APP 42-57 (Appendix)
Technical findings and implications <i>June 23, 2001 Athletic Field Requirements</i> (Appendix)	
Nature centers and museums	
goals and objectives	31-37
land requirements	91-93, 98
standards for demand (participation model)	91-93, 111
existing/proposed sites	291-292
map	293
PLOS development costs	APP 33-35, APP 38-41 (Appendix)
Open Space (resource conservancies)	
goals and objectives	31-37
park properties by resource and activity type	APP 36-37 (Appendix)
PLOS development costs	APP 33-35, APP 38-41 (Appendix)
Park land (resource activities)	
land requirements, standards for demand (participation model)	90, 91-93
park properties by resource and activity type	APP 36-37 (Appendix)
PLOS development costs	APP 33-35, APP 38-41 (Appendix)
Picnic tables and shelters	
goals and objectives	31-37
land requirements	91-93, 95
standards for demand (participation model)	91-93, 100
PLOS development costs	APP 33-35, APP 38-41 (Appendix)
shelters,	
existing/proposed sites	153
map	155
tables,	
existing/proposed sites	149-150
map	151
Playgrounds	
goals and objectives	31-37
land requirements	91-93, 95
standards for demand (participation model)	91-93, 104-105
existing/proposed sites	223-225
map	227
PLOS development costs	APP 33-35, APP 38-41 (Appendix)
Programs, recreational	
goals and objectives, recreational programs	31-37
goals and objectives, cultural arts programs and resources	31-37

Recreation centers, indoor	
goals and objectives	31-37
land requirements	91-93, 97-98
standards for demand (participation model)	91-93, 110
Gymnasiums,	
existing/proposed sites	259, 263
map	261
PLOS development costs	APP 33-35, APP 38-41 (Appendix)
Physical conditioning facilities,	
existing/proposed sites	263-264
map	265
PLOS development costs	APP 33-35, APP 38-41 (Appendix)
Racquetball courts,	
existing sites	233
map	235
PLOS development costs	APP 33-35, APP 38-41 (Appendix)
Squash courts,	
existing sites	233
map	235
PLOS development costs	APP 33-35, APP 38-41 (Appendix)
See also Community Center, indoor	
Resource parks	
general proposals	135
Restrooms, public	
existing/proposed sites	303
map	305
PLOS development costs	APP 33-35, APP 38-41 (Appendix)
Skateboard Court	
goals and objectives	31-37
standards for demand (participation model)	91-93, 105
existing/proposed sites	230
map	231
PLOS development costs	APP 33-35, APP 38-41 (Appendix)
Soccer fields	
goals and objectives	31-37
land requirements	91-93, 97
standards for demand (participation model)	91-93, 108
existing/proposed sites	237-238
map	239, 241
PLOS development costs	APP 33-35, APP 38-41 (Appendix)
Technical findings and implications <i>June 23, 2001 Athletic Field Requirements</i> (Appendix)	

Softball fields (See Baseball/softball fields)	
Special purpose facilities	
goals and objectives	31-37
land requirements	91-93, 98
Streetscape corridors & improvements (incl. Gateways, Crossroad Gateways)	208-215
existing/proposed sites.....	213-215
boardwalk plans and elevations (drawings).....	209
map	211
PLOS development costs	APP 33-35, APP 38-41 (Appendix)
Support facilities, recreational	
land requirements	91-93, 98-99
standards for demand (participation model).....	91-93, 113
existing/proposed sites.....	299
map	301
PLOS development costs	APP 33-35, APP 38-41 (Appendix)
Swimming, beach front (See Waterfront Access)	
Swimming, pool	
goals and objectives	31-37
standards for demand (participation model).....	91-93, 109
existing/proposed sites.....	256
map	257
PLOS development costs	APP 33-35, APP 38-41 (Appendix)
Tennis Courts	
goals and objectives	31-37
standards for demand (participation model).....	91-93, 107
existing sites.....	233
map	235
PLOS development costs	APP 33-35, APP 38-41 (Appendix)
Tent & Vehicle Camping	
standards for demand (participation model).....	91-93, 102
Tracks, jogging	
goals and objectives	31-37
standards for demand (participation model).....	91-93, 109
existing sites.....	243
Trails & trailhead access	
goals and objectives	31-37
land requirements	93-96
existing sites.....	207
PLOS development costs	APP 33-35, APP 38-41 (Appendix)

Development Recommendations by Facility,

Existing public facilities and conditions.....	41-45
Development,	
costs by facility/site	APP 42-57 (Appendix)
proposed additions/improvement by site (proposed level of service)	APP 33-35 (Appendix)
Properties with parks, recreation, and open space uses	APP 36-37 (Appendix)

Finance,

Existing level of service	
costs of maintaining existing level of service (ELOS) through 2015	115-117
costs to meet recommended standards (Proposed Level of Service-PLOS)	91-93
Proposed level of service	
Development costs by facility/site	APP 33-35 (Appendix)
Development costs by activity	APP 42-57 (Appendix)
Prototype trail development costs	APP 58-66 (Appendix)

Standards,

Development,	
boardwalk plans and elevations	209
horseback riding and carriage clearances.....	165
maintenance and emergency vehicle clearance.....	205
multipurpose trails, volume/density.....	201
off-road mountain biking, clearance classes	187
on-road bicycling: volume/density, American Association of State Highway and Transportation Officials (AASHTO) ratings.....	195
walking and hiking trails (city-wide), clearance classes	173
Participation model for usage demand (National Recreation and Park Association) calculation, explained.....	89-90
See Recommendations by Activity for ratio standards for specific activities (i.e. soccer fields, playgrounds, etc.)	

PARKS AND RECREATION COMPREHENSIVE PLAN

AMENDMENT

9/2/2008

BY RESOLUTION 08-41



EXHIBIT A

City of Lake Oswego
Parks & Recreation 20 Year Capital Improvement Plan
Amending capital list in 2002 Parks & Recreation Comprehensive Plan
Adopted by Resolution 08-41 Sept 2, 2008

SUMMARY

FACILITY TYPE	Priority 1 Total Costs	Priority 2 Total Costs	COSTS	ELIGIBLE
Local Parks	\$ 32,589,500	\$ 20,595,000	\$ 53,184,500	\$ 34,859,500
Trails & Pathways	\$ 7,746,000	\$ 7,948,500	\$ 15,694,500	8,288,157
Water Dependent Facilities	\$ 550,000	\$ -	\$ 550,000	323,170
Streetscapes & Greenways	\$ -	\$ 2,000,000	\$ 2,000,000	-
Special Use Facilities	\$ 44,113,900	\$ 1,475,000	\$ 45,588,900	2,264,100
TOTAL	\$ 84,999,400	\$ 32,018,500	\$ 117,017,900	\$ 45,734,927

Priority 1 = Projects to accomplish in 0-10 years
 Priority 2 = Projects to accomplish in 10-20 years

NOTE: Projects to be funded via a variety of sources that may include bond measures, general taxes, grants, donations, and private funding

EXHIBIT A

**City of Lake Oswego
Parks & Recreation 20 Year Capital Improvement Plan**

Facility	Estimated Project Cost	Percentage of Growth Required Portion	Reimbursement Fee SDC Eligible	Improvement Fee SDC Eligible	Project Priority #1	Project Priority #2						
LOCAL PARKS												
<p>Bryant Woods/Canal Acres/River Run I & II</p> <p>Implement Master Plan Improvements (trails, observation deck, wetland enhancement, parking, interpretative displays, signage).</p> <p><i>Acreage Status At Project Completion:</i> Developed Acres = 7 Undeveloped Acres = 0 Natural Area/Open Space Acres = 47.8 <i>Development</i></p> <table border="1"> <tr> <td>Total Acres = 54.8</td> <td><i>Total Cost</i></td> <td>\$ 2,740,000</td> </tr> </table>	Total Acres = 54.8	<i>Total Cost</i>	\$ 2,740,000	<table border="1"> <tr> <td>\$ 2,740,000</td> </tr> </table>	\$ 2,740,000	100.00%		\$2,740,000	1			
Total Acres = 54.8	<i>Total Cost</i>	\$ 2,740,000										
\$ 2,740,000												
<p>Cooks Butte Park</p> <p>Create a master plan for park. Development may include trails, signage, habitat, restoration, parking, bathroom, and picnicking.</p> <p><i>Acreage Status At Project Completion:</i> Developed Acres = 2 Undeveloped Acres = 0 Natural Area/Open Space Acres = 39.9 <i>Plan + Development</i></p> <table border="1"> <tr> <td>Total Acres = 41.9</td> <td><i>Total Cost</i></td> <td>\$ 859,500</td> </tr> </table>	Total Acres = 41.9	<i>Total Cost</i>	\$ 859,500	<table border="1"> <tr> <td>\$ 859,500</td> </tr> </table>	\$ 859,500	100.00%		\$859,500	1			
Total Acres = 41.9	<i>Total Cost</i>	\$ 859,500										
\$ 859,500												
<p>Pilkington Park</p> <p>Construct restroom and picnic facilities.</p> <p><i>Acreage Status At Project Completion:</i> Developed Acres = 3.7 Undeveloped Acres = 0 Natural Area/Open Space Acres = 0 <i>Development</i></p> <table border="1"> <tr> <td>Total Acres = 3.7</td> <td><i>Total Cost</i></td> <td>\$ 330,000</td> </tr> </table>	Total Acres = 3.7	<i>Total Cost</i>	\$ 330,000	<table border="1"> <tr> <td>\$ 330,000</td> </tr> </table>	\$ 330,000	100.00%		\$330,000	1			
Total Acres = 3.7	<i>Total Cost</i>	\$ 330,000										
\$ 330,000												
<p>Raseekh Property</p> <p>Create and implement a master plan for a neighborhood park. Development may include parking, restroom, natural area enhancements, play area, sport courts, picnicking.</p> <p><i>Acreage Status At Project Completion:</i> Developed Acres = 9 Undeveloped Acres = 0 Natural Area/Open Space Acres = 0 <i>Planning</i></p> <table border="1"> <tr> <td rowspan="2">Total Acres = 9</td> <td><i>Development</i></td> <td>\$ 75,000</td> </tr> <tr> <td><i>Total Cost</i></td> <td>\$ 2,700,000</td> </tr> </table>	Total Acres = 9	<i>Development</i>	\$ 75,000	<i>Total Cost</i>	\$ 2,700,000	<table border="1"> <tr> <td>\$ 2,775,000</td> </tr> </table>	\$ 2,775,000	100.00%		\$2,775,000	1	
Total Acres = 9		<i>Development</i>	\$ 75,000									
	<i>Total Cost</i>	\$ 2,700,000										
\$ 2,775,000												

EXHIBIT A

**City of Lake Oswego
Parks & Recreation 20 Year Capital Improvement Plan**

Facility	Estimated Project Cost	Percentage of Growth Required Portion	Reimbursement Fee SDC Eligible	Improvement Fee SDC Eligible	Project Priority #1	Project Priority #2
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LOCAL PARKS

<p>Luscher Farm & Stafford Area Parkland Update and revise the master plan for Luscher Farm to include adjacent Stafford Area park properties. Development may include a combination of active recreation, passive recreation, and natural area enhancement.</p> <p><i>Acreage Status At Project Completion:</i> Developed Acres = 72.83 Undeveloped Acres = 0 Natural Area/Open Space Acres = 46.12 Total Acres = 118.95</p> <table> <tr> <td><i>Planning</i></td> <td>\$ 200,000</td> </tr> <tr> <td><i>Development</i></td> <td>\$ 17,750,000</td> </tr> <tr> <td>Total Cost</td> <td>\$ 17,950,000</td> </tr> </table>	<i>Planning</i>	\$ 200,000	<i>Development</i>	\$ 17,750,000	Total Cost	\$ 17,950,000					1	2
<i>Planning</i>	\$ 200,000											
<i>Development</i>	\$ 17,750,000											
Total Cost	\$ 17,950,000											
<p>George Rogers Park Implement phases 5-13 of the master plan. Improvements include redevelopment of ballfields, tennis courts, maintenance and restroom facilities, lower picnic and Sister City areas; realignment of park access road and parking areas; and improvements to pathway circulation and signage.</p> <p><i>Acreage Status At Project Completion:</i> Developed Acres = 17.1 Undeveloped Acres = 0 Natural Area/Open Space Acres = 10 Total Acres = 27.1</p> <table> <tr> <td><i>Development</i></td> <td>\$ 7,600,000</td> </tr> <tr> <td>Total Cost</td> <td>\$ 7,600,000</td> </tr> </table>	<i>Development</i>	\$ 7,600,000	Total Cost	\$ 7,600,000					1	2		
<i>Development</i>	\$ 7,600,000											
Total Cost	\$ 7,600,000											
<p>Tryon Cove Park Create and implement a master plan for a community park. Development may include parking, restroom, natural area enhancements, picnicking, and river access facilities.</p> <p><i>Acreage Status At Project Completion:</i> Developed Acres = 3 Undeveloped Acres = 0 Natural Area/Open Space Acres = 4.58 Total Acres = 7.58</p> <table> <tr> <td><i>Planning</i></td> <td>\$ 50,000</td> </tr> <tr> <td><i>Development</i></td> <td>\$ 1,950,000</td> </tr> <tr> <td>Total Cost</td> <td>\$ 2,000,000</td> </tr> </table>	<i>Planning</i>	\$ 50,000	<i>Development</i>	\$ 1,950,000	Total Cost	\$ 2,000,000						2
<i>Planning</i>	\$ 50,000											
<i>Development</i>	\$ 1,950,000											
Total Cost	\$ 2,000,000											
<p>Iron Mountain Park Create and implement a master plan for a community park. Development may include parking, restrooms, natural area enhancements, trails, picnicking, and play areas.</p> <p><i>Acreage Status At Project Completion:</i> Developed Acres = 22 Undeveloped Acres = 0 Natural Area/Open Space Acres = 21 Total Acres = 43</p> <table> <tr> <td><i>Planning</i></td> <td>\$ 100,000</td> </tr> <tr> <td><i>Development</i></td> <td>\$ 6,300,000</td> </tr> <tr> <td>Total Cost</td> <td>\$ 6,400,000</td> </tr> </table>	<i>Planning</i>	\$ 100,000	<i>Development</i>	\$ 6,300,000	Total Cost	\$ 6,400,000					1	
<i>Planning</i>	\$ 100,000											
<i>Development</i>	\$ 6,300,000											
Total Cost	\$ 6,400,000											

EXHIBIT A

**City of Lake Oswego
Parks & Recreation 20 Year Capital Improvement Plan**

Facility	Estimated Project Cost	Percentage of Growth Required Portion	Reimbursement Fee SDC Eligible	Improvement Fee SDC Eligible	Project Priority #1	Project Priority #2
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LOCAL PARKS

<p>Woodmont Park</p> <p>Create and implement a master plan for a community park. Development may include parking, restrooms, natural area enhancements, trails, picnicking, play areas, and sport fields.</p> <p><i>Acreage Status At Project Completion:</i> Developed Acres = 4.8 Undeveloped Acres = 0 Natural Area/Open Space Acres = 2 Total Acres = 6.8</p> <table border="0"> <tr> <td><i>Planning</i></td> <td>\$ 80,000</td> </tr> <tr> <td><i>Development</i></td> <td>\$ 2,550,000</td> </tr> <tr> <td>Total Cost</td> <td>\$ 2,630,000</td> </tr> </table>	<i>Planning</i>	\$ 80,000	<i>Development</i>	\$ 2,550,000	Total Cost	\$ 2,630,000					1	
<i>Planning</i>	\$ 80,000											
<i>Development</i>	\$ 2,550,000											
Total Cost	\$ 2,630,000											
<p>Southwood Park Subdivision</p> <p>Develop a new neighborhood Park on recently acquired property</p> <p><i>Acreage Status At Project Completion:</i> Developed Acres = 1.2 Undeveloped Acres = 0 Natural Area/Open Space Acres = 0 Total Acres = 1.2</p> <table border="0"> <tr> <td><i>Planning</i></td> <td>\$ 30,000</td> </tr> <tr> <td><i>Development</i></td> <td>\$ 300,000</td> </tr> <tr> <td>Total Cost</td> <td>\$ 330,000</td> </tr> </table>	<i>Planning</i>	\$ 30,000	<i>Development</i>	\$ 300,000	Total Cost	\$ 330,000					1	
<i>Planning</i>	\$ 30,000											
<i>Development</i>	\$ 300,000											
Total Cost	\$ 330,000											
<p>Neighborhood Parks</p> <p>Acquire property and develop two neighborhood Parks (one in the Lakegrove area, another in the Palisades area)</p> <p>2 acres (1 acre each)</p> <table border="0"> <tr> <td><i>Acquisition</i></td> <td>\$ 1,400,000</td> </tr> <tr> <td><i>Plan + Development</i></td> <td>\$ 670,000</td> </tr> <tr> <td>Total Cost</td> <td>\$ 2,070,000</td> </tr> </table>	<i>Acquisition</i>	\$ 1,400,000	<i>Plan + Development</i>	\$ 670,000	Total Cost	\$ 2,070,000						2
<i>Acquisition</i>	\$ 1,400,000											
<i>Plan + Development</i>	\$ 670,000											
Total Cost	\$ 2,070,000											
<p>Land Acquisition</p> <p>Acquire property for future park and natural area development.</p> <p>50 acres</p> <table border="0"> <tr> <td><i>Acquisition</i></td> <td>\$ 7,500,000</td> </tr> <tr> <td>Total Cost</td> <td>\$ 7,500,000</td> </tr> </table>	<i>Acquisition</i>	\$ 7,500,000	Total Cost	\$ 7,500,000					1	2		
<i>Acquisition</i>	\$ 7,500,000											
Total Cost	\$ 7,500,000											
Sub-Total Local Parks	\$ 53,184,500			\$ 34,859,500								

EXHIBIT A

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TRAILS & PATHWAYS

<p>Paths & Trails</p> <p>Construct 41 miles of hard and soft surface pedestrian and bike paths and trailhead facilities throughout the community. Paths and trails may be constructed in parks, adjacent to existing roads, or as separated pathways. Acquisition includes trail easement purchases</p> <p align="right"><i>Acquisition</i> \$ 400,000 <i>Development</i> \$ 15,092,000 <i>Total Cost</i> \$ 15,492,000</p>					1	2
		53.24%		\$8,247,941		
<p>Equestrian Trails</p> <p>Construct 2.7 miles of equestrian trails and trailhead facilities.</p> <p align="right"><i>Development</i> \$ 202,500 <i>Total Cost</i> \$ 202,500</p>						2
		19.86%		\$40,217		
Sub-Total Trails & Pathways	\$ 15,694,500			\$ 8,288,157		

WATER DEPENDENT FACILITIES

<p>Boating Facilities</p> <p>Construct 2 hand carry launch facilities on the Willamette and Tualatin Rivers in Tryon Cove Park, George Rogers Park, or River Run Parks.</p> <p align="right"><i>Development</i> \$ 100,000</p> <p>Total Acres = <i>Total Cost</i> \$ 100,000</p>					1	
		49.66%		\$49,660		
<p>Misc. Water Dependent Facilities</p> <p>Develop 3000 sq ft. of floating platforms, piers, and boat docks on Willamette and Tualatin Rivers for viewing and recreational access.</p> <p align="right"><i>Development</i> \$ 450,000</p> <p>Total Acres = <i>Total Cost</i> \$ 450,000</p>					1	
		60.78%		\$273,510		
Sub-Total Water Dependent Facilities	\$ 550,000			\$ 323,170		

EXHIBIT A

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STREETSCAPES & GREENWAYS

<p>Beautification</p> <p>Landscape streetscapes and boulevards; Build gateways at entrances to the City. Improvements may include landscaped areas, artwork, and signage.</p> <p>Undeveloped Acres = <i>Development</i> \$ 2,000,000</p> <p>Total Acres = <i>Total Cost</i> \$ 2,000,000</p>		0.00%		\$0		2
Sub-Total Streetscapes & Greenways				\$0		

SPECIAL USE FACILITIES

<p>Indoor Tennis Center</p> <p>Plan for and construct an 8 court indoor facility. Improvements may include tennis courts, parking, offices, restrooms, viewing areas, and event room.</p> <p>2.5 Acres <i>Acquisition</i> \$ 375,000</p> <p><i>Development</i> \$ 3,600,000</p> <p><i>Total Cost</i> \$ 3,975,000</p>		29.80%		\$1,184,550	1	
<p>Nature Center</p> <p>Develop a nature center at an existing natural area park. Development may include soft surface trails, picnic facilities, interpretative facilities, signage, and parking.</p> <p>.5 acres <i>Development</i> \$ 750,000</p> <p><i>Total Cost</i> \$ 750,000</p>		19.86%		\$148,950		2
<p>Museum</p> <p>Develop and implement a master plan for a community historical museum. Development may include facility improvements, displays, visitor amenities, and parking.</p> <p>.5 acres <i>Development</i> \$ 725,000</p> <p><i>Total Cost</i> \$ 725,000</p>		0.00%		\$0		2

EXHIBIT A

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Parks & Recreation 20 Year Capital Improvement Plan**

Facility	Estimated Project Cost	Percentage of Growth Required Portion	Reimbursement Fee SDC Eligible	Improvement Fee SDC Eligible	Project Priority #1	Project Priority #2
<u>SPECIAL USE FACILITIES</u>						
Municipal Golf Course Revise and implement a golf course master plan for upgrades to the Municipal Golf Course. Development may include improvements to the driving range, fairways, and irrigation.	<i>Plan + Development</i>	\$ 2,500,000	0.00%	\$0	1	
	<i>Total Cost</i>	\$ 2,500,000				
Multi-Purpose Sport Fields Develop two (2) additional multi-purpose sport fields w/lights <i>Note: Development costs are already factored into park development costs for local parks at the "community park" level</i>	<i>Development</i>	\$ -	0.00%	\$0		2
	<i>Total Cost</i>	\$ -				
Baseball Fields Develop three (3) additional baseball fields in 65/90'x300' and 250' lengths. <i>Note: Development costs are already factored into park development costs for local parks at the "community park" level</i>	<i>Development</i>	\$ -	0.00%	\$0		2
	<i>Total Cost</i>	\$ -				
Skatepark Acquire land and develop a 15,000- 20,000 sq. ft. skatepark.	<i>Acquisition</i>	\$ 700,000	77.55%	\$930,600	1	
	<i>Development</i>	\$ 500,000				
	<i>Total Cost</i>	\$ 1,200,000				

EXHIBIT A

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<u>SPECIAL USE FACILITIES</u>						
Swimming Pools Development may include a lap and leisure swimming pools, and locker rooms					1	
	<i>Plan + Development</i>	\$ 15,562,950				
	<i>Total Cost</i>	\$ 15,562,950	0.00%		\$0	
Specialized Indoor Recreation Facilities Recreation facilities for classes, meetings, community gatherings. Development may include multi-purpose classrooms, arts & crafts rooms, areas for meetings and community gatherings, senior lounge, teen activity area, offices, and restrooms.					1	
	<i>Plan + Development</i>	\$ 10,741,000				
	<i>Total Cost</i>	\$ 10,741,000	0.00%		\$0	
Sports and Fitness Indoor Recreation Facilities Active indoor recreation facilities. Development may include gymnasiums, multi-purpose activity rooms for children's and adult sports, fitness, and dance activities.					1	
	<i>Plan + Development</i>	\$ 10,134,950				
	<i>Total Cost</i>	\$ 10,134,950	0.00%		\$0	
Sub-Total Special Use Facilities	\$ 45,588,900			\$ 2,264,100		
Total All Facilities	<u>\$ 117,017,900</u>			<u>\$ 45,734,927</u>		

EXHIBIT A

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Parks & Recreation 20 Year Capital Improvement Plan**

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NOTES:

Development Cost Assumptions:

All costs based on 2007 estimates (current construction cost estimates for LO parks)

Natural area park (minimal improvements) \$50,000/acre
(minimal improvements = trails, signage, some resource enhancements)

Natural area park (improved) \$100,000/acre
(parking, bathrooms, kiosks, shelters, trails, signage)

Neighborhood park \$300,000/acre (i.e. Glenmorrie Park)
(playgrounds, picnicking, sidewalks & trails, landscaping, resource enhancements)

Community park \$375,000/acre (i.e. George Rogers Park, Hazelia Field at Luscher Farm)
(Includes all elements in neighborhood parks, plus additional special features such as amphitheatres, riverfront facilities, ballfields, plazas, historic facility restoration, etc.)

Land Acquisition Assumptions:

Inside UGB - \$700,000 per .5 acre lot (based on realtor sales listings for 2006)

Outside UGB - \$150,000 per acre (based on actual city purchases in 2006)