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Port of Waterman

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Organizations/Businesses
Bainbridge Island Bicycle
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Bremerton Naval Museum
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Kingston Classic Cycle
Kingston Greater Community Chamber of Commerce
Kitsap County Historical Society Museum
Kitsap Key and Bike Shop
Missing Link Cycles, Inc.
Mt. Constance Mountain Shoppe
Museum of History and Industry
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Cover: *The Kitsap*, Curtis Archives.
    Courtesy of the Washington State Historical Society.
At the turn of the last century, the Kitsap Peninsula was a land of verdant hills and valleys, fledgling communities and ports. Docks jutted out at regular intervals along its winding shoreline. Its settlers depended on water-based transport, small steamers that buzzed around the Puget Sound so quickly and regularly that they came to be known as the “Mosquito Fleet.” One hundred years later, at the forefront of the new millennium, Kitsap County is rapidly urbanizing and more dependent on its extensive road network and the Washington State Ferry System as means of transport.

In 1995, the Kitsap County Greenways Plan was completed, proposing a comprehensive system to address transportation and recreation needs, and to protect and enhance natural and scenic resources. Borne out of this plan was the concept for a Mosquito Fleet Trail, which would follow the eastern shoreline of Kitsap County from Hansville to Olalla, connecting historic dock sites and shoreline communities along the way. There were numerous reasons for which the County chose to embark on this trail as a first step in implementation of the Greenway Plan proposals. The trail could serve both recreation and non-motorized transportation needs. It has appeal for both local communities and visitors to the County. It follows scenic corridors and connects significant cultural, historic and scenic sites. It connects all four of the County’s cities and seventeen of the County’s communities. In the fall of 1999, the County began the planning process for this trail corridor, which included an extensive inventory of the route, and an in-depth public process to insure the development of a master plan that would reflect the needs and concerns of the citizens of Kitsap County.
PART ONE: OVERVIEW

Executive Summary

Vision

Over the past decade the Puget Sound region has been subject to increased development and its associated side effects, increased traffic and loss of Open Space. Various public agencies have been working to maintain and restore the high quality of life standards associated with this region in years past. One of the greatest needs in Kitsap County is for safe and accessible non-motorized trails, which would link communities to places of work, study, and leisure. These corridors are identified in a combination of planning documents that had their basis in the Kitsap County Greenways Plan. The Greenways Plan identified both non-motorized transportation routes and recreation based off-road trails. Kitsap County Parks and Recreation has addressed the off-road trails portion of the Greenways Plan in the Kitsap County Open Space Plan, adopted in June 2000. Kitsap County Public Works has recently completed the Kitsap County Bicycle Facilities Plan, adopted in August 2001. This plan along with a Pedestrian Facilities Plan will identify a comprehensive system of non-motorized transportation routes.

The Mosquito Fleet Trail Master Plan defines in greater detail a project that is both part of the Kitsap County Open Space Plan and the Kitsap County Bicycle Facilities Plan. The basic concept is that of a trail corridor for use by bicyclists and pedestrians that skirts the eastern shoreline of Kitsap County, connecting historic Mosquito Fleet docks along the way. It is a route for usage by commuters, school children, bicycle touring groups, recreation users, and tourists. It links cultural resources and scenic sites, parks and docks, businesses and schools, transit and public facilities, and communities and cities. When complete, it will improve the quality of life for the citizens of Kitsap County.
Organization

Extensive research and planning were necessary to arrive at the recommendations made in this plan. Parts Two and Three, Background and Alternative Concepts, describe the process and how it evolved, the existing context along the trail corridor and the various concepts considered for cross section design, routing, and trail facilities.

In Part Four, Design Recommendations, design guidelines for the development of facilities are outlined, specific projects along the corridor are identified, and strategies for implementation are suggested. In combination, these recommendations provide the basis for development of the trail corridor.

Design Guidelines Included in the plan are design guidelines specific to the development of the Mosquito Fleet Trail. These include cross section design guidelines, prototypical viewpoint/rest area design, and guidelines for signage and an interpretive program.

Projects The corridor has been divided into ten project areas between Kingston and Southworth based on community and political boundaries. Each project area is mapped and described in detail. The maps identify proposed cross section design for both primary and secondary routes, locate historic mosquito fleet sites and potential viewpoint sites. Following the project area descriptions is a chart of development sized projects based on that prepared for the Kitsap County Bicycle Facilities Plan and arranged in priority order. Included in this chart are preliminary cost estimates, project lengths and locations, and recommended improvements. Other planning projects that overlap with all or portions of the proposed project are also indicated.

Implementation There are various ways the County could proceed to implement the recommendations of this master plan. In this section, funding strategies and partnerships are suggested that could aid the county in bringing the vision of the Mosquito Fleet Trail to reality.

In a separate volume, an Appendix has been compiled that documents essential components of this master plan. First among these is the SEPA Checklist, prepared and submitted to the Kitsap County Department of Community Development for review. This is a programmatic checklist that identifies potential concerns related to the development of the trail corridor and explains how those concerns will be addressed when the trail is developed at the project level. Next is a list of Interpretive Program Resources that identifies potential sources for interpretative material, including historical anecdotes, photographs, maps and other illustrative material. Following this is a complete set of the inventory sheets that were prepared for both the selected and alternative routes. The final component of the appendix is the results of the public survey that was conducted over the Spring and Summer of 2000.

The Mosquito Fleet Trail Master Plan will serve as the basis for the design of the trail at the project level and will be used to secure funding for implementation of the master plan recommendations.
The planning process for the Mosquito Fleet Trail began with an inventory of existing conditions along the proposed corridor. Through a combination of site visits and a review of previous documentation, a series of inventory sheets was prepared for all potential trail routes along the corridor. Information was gathered and recorded on:

- Previous planning, including recommendations made in county and municipal planning documents such as the Kitsap County Greenways Plan and the Kitsap County Comprehensive Plan.
- Road Data, including a description of the road and right-of-way, data on average daily traffic, approximate grade and traffic conditions.
- Features, including a description of the visual experience, viewpoints, cultural resources and recreation sites along the route.

This inventory, included in the Appendix of this report, served as a resource for determining routes, cross section design and the siting of facilities. Information gathered on the trail corridor is described in more detail in the following section on the existing context (p. 7).

In May 2000 an informational publication was mailed to approximately 4000 adjacent residents, property and business owners within 200 feet of the proposed trail corridor. In addition, the publication was circulated to identified interest groups, including cycling and other recreation groups, port and school districts, chambers of commerce, city and tribal planners.

At the time of the tabulation of the questionnaire results, the county had received 471 responses through mail and e-mail. Among those respondents, 373 live along the proposed route, an additional 10 own property along the route but do not reside there, 55 respondents do not live along the route and 49 own businesses along the route. Following is a summary of the questionnaire responses:

**Do you think the trail increases access to scenic and historic areas in the County? Are there parts of the route you would change?**

333 people believe the trail increases access to scenic and historic areas of the county. 114 people suggested route changes, most were specific to their own neighborhoods. Seven people said the project should be dropped. There did not appear to be consistent opposition to the trail in specific neighborhoods, nor recommendations to reroute the trail away from their homes. In fact, many people welcomed the trail as providing a safer route within the vicinity of their homes. Route suggestions were generally helpful and specific.
Will you use the trail when completed? Describe features you believe would enhance the trail. Describe any concerns that should be considered as the trail is developed. 293 people said they would use the trail when completed, mostly for walking and cycling. Asked what features would enhance the trail, the most common response was “separate it from traffic.” Other common responses were: “rest stops” and “interpretive markers”, followed by “drinking fountains”, “restrooms”, and “safety.” Asked what concerns should be addressed, “safety” was the most common answer, followed by “separation from traffic,” and concern for “rights and privacy of private land owners.”

Do you have photographs or historical information about the Mosquito Fleet or other areas of interest along the trail, or know someone who does? 78 people provided leads on historical information or photographs that might be used for interpretive signs and brochures.

How did you first hear about the Mosquito Fleet Trail? What is the most effective way for you to get information about county projects? 323 people reported receiving their first information about this project through this mailing. Respondents said they prefer receiving project information by mail (258), Bremerton Sun (176), other local newspapers (130) and email (99). Out of all the respondents, 28 preferred public meetings.

Do you know of any neighborhood groups or community organizations in your area? Citizens named 85 community groups with which they are involved. Some of these may be duplicates because people may have used different names for the same organization. These community groups may be helpful means for contacting citizens at the next scale of planning.

Would you like your address to be placed on our mailing list? Nearly 350 people asked to be kept informed, providing their names and addresses for a mailing list.

Of the 212 responses in the General Comments sections, feedback ranged from praise for Kitsap County Public Works Department, to delight over the plans for this project, to expressions of concern for safety on the county’s narrow roads. This concern for safety was repeated over and over throughout these responses and is by far the strongest sentiment expressed. 13 people said they did not want the trail.

The questionnaire responses and concerns were incorporated into the next phase of planning, the development of the Draft Master Plan. This plan was reviewed by Kitsap County Public Works staff. Comments received were incorporated into the preparation of this Final Master Plan.
PART TWO: BACKGROUND

Existing Context

The Mosquito Fleet Trail Master Plan envisions linking together the cities and communities of Kitsap County, connecting transit facilities, commercial centers and schools, following scenic corridors, and providing connections between communities and their cultural and natural resources. Following is a description of the aspects of the existing context that guided decisions on routing and the design of facilities.

Planning Context

In recent years, the development of trails and non-motorized transportation facilities has been a significant concern for both local and regional agencies in the Puget Sound area. Numerous plans were reviewed to ensure concurrency with current countywide planning efforts and to avoid overlap with previous planning efforts.

Kitsap County Greenways Plan (Kitsap County Public Works, 1996) The Kitsap County Greenways Plan was developed over the course of three years with an extensive public planning process to identify corridors that would serve as non-motorized transportation routes and recreation opportunities and that would protect scenic and natural resources throughout the county. The plan was designed to be implemented by various departments in the county and to serve as a guide for the county’s incorporated cities.

Kitsap County Bicycle Facilities Plan (Kitsap County Public Works, 2001) The Kitsap County Bicycle Facilities Plan is based on the recommendations made in the transportation component of the Greenways Plan. It proposes the development of bicycle facilities across the county on regional, sub-regional and local road systems. Proposed cross sections range from shared use pathways separated from the roadway, to bicycle lanes and paved shoulders. The plan also includes design guidelines for the development of these bicycle facilities based on the American Association of Highway Transportation Officials’ (AASHTO) Guide to the Development of Bicycle Facilities (1999). The Mosquito Fleet trail is included in the proposed projects of the Bicycle Facilities Plan and identified as a high priority project. This plan defers to the design guidelines of the Bicycle Facilities Plan for the development of bicycle facilities.

Kitsap County Open Space Plan (Kitsap County Parks and Recreation, 2000) The Kitsap County Open Space Plan combines the recreation and natural resources components of the Greenways Plan into a revised and updated document to serve as an inter-jurisdictional guide for the development of recreation trails and parks and for the protection of sensitive natural resources.
Included in the plan are off-road trails for pedestrians, cyclists and equestrians. These trails link into the on-road bicycle facilities proposed in the Kitsap County Bicycle Facilities Plan. The Open Space Composite Map depicts an interconnected system of trails and open space corridors and includes the Mosquito Fleet Trail as part of that vision.

Kitsap County Subarea Plans The Kitsap County Department of Community Development is in the process of developing Subarea Plans for the Kingston, Poulsbo, Port Blakely and Manchester Sub-Areas. The Suquamish Rural Village Sub-Area Plan (1999) was the first of these documents to be completed. The plans are intended to respond to guidelines established in the Growth Management Act and to develop land use strategies that will guide future development in a manner consistent with each community’s needs and desires. Among the topics that the Suquamish Plan addresses are the development of trails, parks and viewpoints, including the opening of public right-of-way for use as viewpoints and rest areas. Mosquito Fleet Trail routes and facilities are located and designed to work with these community goals.

Metropolitan Transportation Plan (Puget Sound Regional Council, 1995) The Metropolitan Transportation Plan (MTP) was prepared as a first step towards the implementation of the policies set forth in Vision 2020, a regional planning document that provides a strategy for decisions related to growth and transportation. The MTP identifies the need to invest in three major program areas:

- Development of a Regional Network of Non-Motorized Transportation Facilities.
- Development of Local Networks for Non-Motorized Travel.
- Development of Transit Access for Pedestrians and Cyclists.

In addition, the MTP includes a map demarcating a Preliminary Regional Nonmotorized Network, which includes major separated trails or bikeways and shared use bikeways or walkways. The Mosquito Fleet Trail is included in this map, identifying it as a significant corridor in the Puget Sound region.

Cultural Resources Cultural resources along the trail corridor add to the value of the trail experience. They are interesting sites to visit and appropriate subjects for an interpretive program. A number of historical society archives, libraries and museums were contacted to research the history of the Mosquito Fleet and the location of Mosquito Fleet docks. These resources as well as a list of citizen resources are included in the Appendix of this plan and should be contacted when an interpretive program is developed. Following is a summary of the cultural resources along the trail corridor that are identified in the plan for connections and/or interpretation.

Mosquito Fleet In the year 1908 twenty-four docks provided passenger and goods transport between Kingston and Southworth along the eastern shoreline of the Kitsap Peninsula. (Seattle Post-Intelligencer, 1908) The Mosquito Fleet derives its name from the ubiquity of the small steamboats that carried passengers between these docks and across the Puget Sound as common as mosquitoes buzzing through the air. Historians attribute the beginning of the Mosquito Fleet to the year 1853, when the Fairy began service between Olympia and Seattle (Clark, p. 48). At the turn of the century, numerous lines competed against each other, vying for both passengers and goods. The emergence of the automobile had disastrous effects on the Mosquito Fleet. By the mid-1930’s only the Black Ball Line survived. In 1951, Captain Peabody sold what remained of his fleet to the State of Washington, officially ending the era of the Mosquito Fleet.
PART TWO: BACKGROUND

Mosquito Fleet dock sites are identified on the project maps in Part Four of this plan. The following table (p. 10-13) lists the twenty-four docks sites between Kingston and Southworth and provides information on some of the historic services that operated out of these docks. Though none of the original docks still exist, there are boat launches and fishing piers at many of these sites, and Washington State Ferry terminals at Kingston, Bremerton and Southworth. In some cases, the right-of-way to the former dock site is privately owned and developed as a residential lot. In other instances, an undeveloped public right-of-way remains and could serve as a rest area for trail users.

**Other Cultural Resources** There are numerous other cultural resources along the corridor relating to the history of Kitsap County and the Suquamish nation. These resources are identified in the project descriptions in Part Four of this plan. Some of the most noteworthy of these cultural resources include Chief Sealth’s grave, Old Man House State Park, the U.S.S. Turner Joy, and the torpedo warehouse at Manchester State Park.
<table>
<thead>
<tr>
<th>Dock</th>
<th>Location</th>
<th>Existing Services</th>
<th>Selected Historic Services*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kingston</td>
<td>Central St. terminus</td>
<td>Washington State Ferry, Kingston Marina</td>
<td><em>S.S. Dode ran the Seattle-Kingston-Hood Canal route in the 1900's/ May B ran from Kingston to Ballard/ S.S. State of Washington ran from Kingston to Port Gamble until its retirement in 1912/ May 16, 1923 - first car ferry, the City of Edmonds, ran from Edmonds to Kingston/ In 1929, the Black Ball Line ran auto ferries on the Edmonds-Kingston route</em></td>
</tr>
<tr>
<td>Indianola  (Kitsap)</td>
<td>Indianola Rd. terminus</td>
<td>fishing pier &amp; boat launch at Indianola Rd.</td>
<td>In 1926, the Kitsap Line ran auto ferries on the Seattle-Indianola-Suquamish route</td>
</tr>
<tr>
<td>Suquamish</td>
<td>South St. terminus</td>
<td>fishing pier &amp; boat launch at South St.</td>
<td>In 1908, the Kitsap ran from the Colman Dock in Seattle for Suquamish-Lemolo-Poulsbo-Scandia-Pearson-Keyport/ In 1926, the Kitsap Line ran auto ferries on the Seattle-Indianola-Suquamish route/ In 1939, the Black Ball Line ran auto ferries on the Seattle-Indianola-Suquamish route</td>
</tr>
<tr>
<td>Lemolo</td>
<td>Indigo Lane/ Norum Rd. NE intersection</td>
<td>property in private ownership</td>
<td>In 1908, the Kitsap ran from the Colman Dock in Seattle for Suquamish-Lemolo-Poulsbo-Scandia-Pearson-Keyport/ In 1926, the Kitsap Line ran passenger ferries from Lemolo to Seattle</td>
</tr>
<tr>
<td>Poulsbo</td>
<td>Hostmark St. terminus</td>
<td>Poulsbo Marina, Liberty Bay Park</td>
<td>In the early 1900's, the Hyak and the Liberty Bay Transportation Company's Athlon competed for passengers on the Poulsbo-Seattle run/ In 1908, the Kitsap ran from the Colman Dock in Seattle for Suquamish-Lemolo-Poulsbo-Scandia-Pearson-Keyport/ In 1926, the Kitsap Line ran passenger and freight ferries from Pier 3 in Seattle on the Port Madison-Keyport-Poulsbo route</td>
</tr>
<tr>
<td>Scandia</td>
<td>Scandia Ln. terminus</td>
<td>property in private ownership</td>
<td>In 1908, the Kitsap ran from the Colman Dock in Seattle for Suquamish-Lemolo-Poulsbo-Scandia-Pearson-Keyport/ In 1926, the Kitsap Line ran passenger ferries from Scandia to Seattle</td>
</tr>
<tr>
<td>Pearson</td>
<td>Pearson Pt. Rd.</td>
<td>property in private ownership</td>
<td>In 1908, the Kitsap ran from the Colman Dock in Seattle for Suquamish-Lemolo-Poulsbo-Scandia-Pearson-Keyport/ In 1926, the Kitsap Line ran passenger ferries from Pearson to Seattle</td>
</tr>
</tbody>
</table>
### Dock Location

<table>
<thead>
<tr>
<th>Dock</th>
<th>Location</th>
<th>Existing Services</th>
<th>Selected Historic Services*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Virginia</td>
<td>Liberty Loop Rd. NE</td>
<td>property in private ownership</td>
<td>In 1926, the Kitsap Line ran passenger ferries from Virginia to Seattle</td>
</tr>
<tr>
<td>Keyport</td>
<td>Historic site on Navy property, existing dock at terminus of Washington Ave.</td>
<td>Naval Undersea Engineering Station, boat launch &amp; marina at Washington Ave.</td>
<td>In 1908, the Kitsap ran from the Colman Dock in Seattle for Suquamish-Lemolo-Poulsbo-Scandia-Pearson-Keyport/ In 1926, the Kitsap Line ran passenger and freight ferries from Pier 3 in Seattle on the Port Madison-Keyport-Poulsbo route</td>
</tr>
<tr>
<td>Brownsville</td>
<td>Ogle Rd. NE terminus</td>
<td>boat launch, marina</td>
<td>In 1908, the Sentinel ran from Colman Dock in Seattle to Brownsville and other ports/ In 1926, the Kitsap Line ran auto ferries from Marion St. in Seattle on the Brownsville-Fletcher Bay route/ In 1926, the Kitsap Line ran passenger and freight ferries from Pier 3 in Seattle on the Illahee-Brownsville-Manzanita route/ In 1939 the Black Ball Line ran auto ferries on the Brownsville-Fletcher Bay route</td>
</tr>
<tr>
<td>Gilberton</td>
<td>Washington St. terminus</td>
<td>public R.O.W. existing, no facilities</td>
<td>In 1926, the Kitsap Line provided passenger service from Gilberton to Seattle</td>
</tr>
<tr>
<td>Illahee</td>
<td>Oceanview Blvd./Illahee Rd. NE intersection</td>
<td>fishing pier, marina</td>
<td>In 1926, the Kitsap Line ran passenger and freight ferries from Pier 3 in Seattle on the Illahee-Brownsville-Manzanita route</td>
</tr>
<tr>
<td>Enetai</td>
<td>Enetai Beach Rd.</td>
<td>property in private ownership</td>
<td>In 1908, the Norwood ran from Seattle to Waterman, Enetai, Manette and Bremerton</td>
</tr>
<tr>
<td>Manette</td>
<td>Trenton Ave./Shore Dr. intersection</td>
<td>Bachmann Park</td>
<td>In 1908, the Norwood ran from Seattle to Waterman, Enetai, Manette and Bremerton/ In 1908 the City of Manette Launch ran from Bremerton to Manette/ From 1916 to construction of Manette Bridge, Harry Hansen family ran the Pioneer from Manette to Bremerton</td>
</tr>
<tr>
<td>Dock</td>
<td>Location</td>
<td>Existing Services</td>
<td>Selected Historic Services*</td>
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</tr>
<tr>
<td>Bremerton</td>
<td>1st St. terminus and 2nd St. terminus</td>
<td>Washington State Ferry, Horluck Ferry</td>
<td>Bailey Gatzert ran the first route to the Kitsap Peninsula between Seattle and Bremerton in 1890/ In 1899, A.R. Robinson ran the Seattle-Port Orchard-Bremerton route/ In 1908 the Athlon, Inland Flyer, Telegraph and Tourist ran the Bremerton-Port Orchard-Charleston-Navy Yard City route bound for Pleasant Beach/ In 1908, the Monticello Jr. ran between Bremerton and Port Orchard/ In 1908, the Norwood ran from Seattle to Waterman, Enetai, Manette and Bremerton/ In 1908, the Port Blakely Transportation Co. ran the Favorite on the Bremerton-Charleston-Port Orchard route/ In 1908, the Magnolia ran the Bremerton-Tacoma route/ In 1926, the Blackball Line ran ferries from the Colman Dock in Seattle to Bremerton/ The Black Ball Line ran the Kalakala from 1935 to 1967 in the Puget Sound mainly on the Seattle-Bremerton Route</td>
</tr>
<tr>
<td>Navy Yard City</td>
<td>Wycoff Ave. terminus</td>
<td>U.S. Navy Shipyard</td>
<td>In 1908 the Athlon, Inland Flyer, Telegraph and Tourist ran the Bremerton-Port Orchard-Charleston-Navy Yard City route bound for Pleasant Beach</td>
</tr>
<tr>
<td>Charleston</td>
<td>SR 304 at S. Charleston Ave. terminus</td>
<td>Horluck Ferry service, marina, fishing pier, boat launch</td>
<td>In 1908, the Port Blakely Transportation Co. ran the Favorite on the Bremerton-Charleston-Port Orchard route/ In 1908 the Athlon, Inland Flyer, Telegraph and Tourist ran the Bremerton-Port Orchard-Charleston-Navy Yard City route bound for Pleasant Beach</td>
</tr>
<tr>
<td>Port Orchard (Sidney)</td>
<td>Sidney Ave. terminus at waterfront</td>
<td>Horluck Ferry service, boat launch</td>
<td>Leif Erickson ran from Seattle to Sidney until destroyed by fire in 1888/ In 1899, A.R. Robinson ran the Seattle-Port Orchard-Bremerton route/ In 1908, the Monticello Jr. ran between Bremerton and Port Orchard/ In 1908 the Athlon, Inland Flyer, Telegraph and Tourist ran the Bremerton-Port Orchard-Charleston-Navy Yard City route bound for Pleasant Beach/ In 1908, the Port Blakely Transportation Co. ran the Favorite on the Bremerton-Charleston-Port Orchard route/ In 1926, the Blackball Line ran ferries from the Colman Dock in Seattle to Port Orchard</td>
</tr>
<tr>
<td>Annapolis</td>
<td>Retsil Rd. terminus at Bay St.</td>
<td>Horluck Ferry service, boat launch, Annapolis Park</td>
<td></td>
</tr>
<tr>
<td>Waterman</td>
<td>Beach Drive</td>
<td>fishing pier</td>
<td>In 1908, the Norwood ran from Seattle to Waterman, Enetai, Manette and Bremerton</td>
</tr>
</tbody>
</table>
### Dock Location

<table>
<thead>
<tr>
<th>Dock</th>
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</thead>
<tbody>
<tr>
<td>Manchester</td>
<td>Main St. terminus</td>
<td>boat launch, marina</td>
<td>In 1908, the <em>May B.</em> and the <em>Reliance</em> ran the Harper-Colby-Manchester route from Seattle/ In 1929, the Black Ball Line ran auto ferries on the Alki-Manchester route/ In 1939, the Black Ball Line ran auto ferries on the Seattle-Manchester route</td>
</tr>
<tr>
<td>Colby</td>
<td>SE Cole Loop</td>
<td>public R.O.W. existing, no facilities</td>
<td>In 1908, the <em>May B.</em> and the <em>Reliance</em> ran the Harper-Colby-Manchester route from Seattle/ In 1908, the <em>Lovera</em> launch ran from Madison St. in Seattle to Colby</td>
</tr>
<tr>
<td>South Colby</td>
<td>Anderson St. terminus</td>
<td>public R.O.W. existing, no facilities</td>
<td></td>
</tr>
<tr>
<td>Harper</td>
<td>Southworth Dr.</td>
<td>fishing pier</td>
<td>In 1908, the <em>May B.</em> and the <em>Reliance</em> ran the Harper-Colby-Manchester route from Seattle/ In 1926, the Kitsap line ran auto ferries from Seattle and Fauntleroy on the Vashon Island-Harper route/ In 1939, the Black Ball Line ran auto ferries on the Fauntleroy-Vashon-Harper route</td>
</tr>
</tbody>
</table>

*Selected Historic Services* presents particular Mosquito Fleet ships which are known to have operated out of these docks in particular years in the early part of the twentieth century. This is not meant to be a comprehensive list of services provided by these docks nor does it indicate the extent of time over which these docks were in operation.

**Sources for Locations:**
- Metsker, Chas F., Civil Engineer. *King & Kitsap Counties*. Tacoma, WA: Metsker Maps, Sept. 1926.
- __________. *Port Orchard Quadrangle*, 15 minute series.

**Sources for Selected Historic Services:**
Public Facilities
Across the length of the trail corridor there are eighty-nine public facilities for recreation, community and transit usage. The trail provides access to these facilities and connections between them.

Recreation Facilities  Recreation facilities along the corridor are managed by Washington State Parks, Kitsap County Parks & Recreation, the Port Districts and Municipal Parks Departments. There are three state parks along the corridor, Manchester State Park, Illahee State Park, and Old Man House State Park and numerous county parks, including, Wynn-Jones County Park, Arness County Park, and Keyport Saltwater Park. The cities of Poulsbo, Bremerton and Port Orchard all have parks along the corridor and each has a waterfront park located at their respective Mosquito Fleet dock sites.

The Ports of Kingston, Poulsbo, Brownsville, Bremerton, and Waterman operate boat launches, marinas and piers along the corridor, all of which are former Mosquito Fleet dock sites. Other recreation interests along the corridor include fish hatcheries at Grover’s Creek and Cowling Creek. Undeveloped park lands, street ends and planned off-road trails add a layer of future recreation opportunities. Parks that have been planned along the corridor include Kingston Village Green Park, Poulsbo’s Nelson Park Historic Farm and Annapolis Park.

Community Facilities  Community facilities include schools, community centers, libraries, and county and municipal offices. These facilities with the exception of schools are typically located in commercial and urban areas such as Augusta Avenue in Suquamish and Bay Street in Poulsbo. The corridor passes by eleven schools between Kingston and Southworth and is within close proximity to several others.

Transit Facilities  Transit facilities along the corridor are provided by Kitsap Transit, the Horluck Ferry Company and Washington State Ferries. Kitsap Transit in combination with the Horluck Ferry system provides public transportation connections throughout the county. Bus routes that are accessible from the Mosquito Fleet Trail corridor include the 33, 42, 90, 91 and 92 in north Kitsap, the 11, 15, 20, 25, 26, and 29 in Central Kitsap and the 7, 81, and 86 in South Kitsap. The Horluck Ferry system provides passenger and bicycle ferry connections between Annapolis, Port Orchard and Bremerton. In addition there are nine Park-and-Ride lots along or in close vicinity to the trail corridor. Bicycle facilities provided by Kitsap Transit include racks on buses and bicycle lockers at select Park-and-Ride lots.

Washington State Ferries provides passenger and auto ferry service on the Kingston-Edmonds, Bremerton-Seattle and Southworth-Fauntleroy routes and passenger only service from Bremerton to Seattle. These are all potential access points to the trail corridor. A connection to the Winslow ferry terminal in Bainbridge Island via SR 305 provides a fourth point of access and linkage to the Bainbridge Island Bike
The Bike Barn offers bike lockers, repair services, bicycle rentals and sales. Bicycles are accommodated on all the ferries and bicycle lockers and/or racks are located at ferry terminals.

**Scenic Resources**

The Mosquito Fleet trail follows scenic corridors and connects scenic sites and viewpoints, passing through the rural village communities of Kingston, Suquamish, and Manchester and the scenic urban “Main Streets” of Poulsbo and Port Orchard, following scenic drives such as Beach Drive and Lemolo Shore Drive and connecting historic and scenic places, including the Indianola Dock and Manchester State Park. Views include expansive vistas of water and mountains beyond, rural scenes of fields and farmhouses, and forested hillsides. These views and scenic corridors add immeasurably to the identity and value of the trail corridor.

In the Kitsap County Greenways Plan, roadside scenic resource corridors were identified for protection along roads selected for the addition of bicycle and pedestrian facilities. These corridors were categorized as one of four types, scenic rural resource zones, streetscape improvement zones, scenic resource zones and scenic resource districts. In the Greenways Plan, each of these types was associated with suggested protection measures due to the scenic value of the roadside landscape. With a few exceptions, each part of the Mosquito Fleet trail corridor falls into one of these categories. These categories are noted in the “previous planning” section of the inventory sheets (see Appendix).
Natural Resources

Natural resources include streams, wetlands, shorelines, and steep slopes. The *Environmental Checklist* included in the Appendix of this plan lists and maps stream crossings, 100-year floodplains, geologic hazards, National Wetland Inventory (NWI) wetlands and Flood Insurance Rate Map (FIRM) floodways and floodplains. It also describes measures that would be taken during construction of the trail to avoid impact to these resources as well as to plant and animal species. Some of the most sensitive natural resources along the corridor include Blackjack Creek, a Type 1 stream crossing Bay Street in Port Orchard, shoreline areas along Beach Drive, Fjord Drive and Gorst, and unstable slopes along State Routes 3 and 16.

There are a number of opportunities along the Mosquito Fleet trail to appreciate and observe wildlife and native plants. At numerous stream crossings, salmon can be seen spawning in the Fall, walks at Illahee State Park pass through old-growth forest, and a nature trail at Manchester State Park identifies native plant species. At the Sinclair Inlet Wildlife viewing area in Gorst, Great Blue Herons mingle with Bald Eagles and other birds as they search for food at the mouth of Gorst Creek. Connections from the trail to these sites is suggested in the plan recommendations.
The identification of potential trail routes began with a review and inventory of the shoreline trail corridor proposed in the Kitsap County Greenways Plan. Bicycle facilities in the Greenways Plan were selected based on countywide needs for non-motorized transportation, not all of which are relevant to the vision of the Mosquito Fleet trail. The following criteria were developed and used as the basis for the selection of routes and the design of cross sections and trail amenities. While all these criteria bore significant weight on planning decisions, it was agreed that first and foremost the trail when built needed to provide a safe experience for all user groups.

**Safety**
The proposed facilities should provide a safe trail experience.

**Accessibility**
The trail should serve the needs of the maximum number of user groups possible, both commuters and recreational users, young and old, pedestrians and cyclists.

**Continuity**
The trail should be continuous from Kingston to Southworth, clear and easy to follow.

**Linkage**
The trail should link population centers, historic and cultural interests, recreation facilities, and transportation nodes along the eastern shoreline of Kitsap County.

**Trail experience**
Proposed facilities should maximize the trail experience, proposing in order of most desirable to least desirable the following cross sections: off-road trail, separated path, bicycle lanes, paved shoulders, shared roadway and shared sidewalk.

**Waterfront experience**
The proposed facilities should take advantage of opportunities to connect with or follow the shoreline between Kingston and Southworth.

**Scenic experience**
Proposed facilities should take advantage of opportunities to follow scenic corridors and connect with scenic resources.

**Sensitivity**
Proposed facilities should be designed to respect and avoid harm to wildlife corridors and other sensitive landscapes.

**Concurrency**
Proposed facilities should be concurrent with other county, municipal or regional non-motorized planning efforts.
After an initial survey of the trail corridor, it became clear that the existing conditions did not lend themselves to the development of a simple trail route. In order to connect to Mosquito Fleet sites, and to take advantage of waterfront opportunities while still providing a continuous, safe and direct route between shoreline communities, a trail network concept was developed, consisting of three parts, a primary corridor, a secondary corridor and connections. All three types of facilities intend to provide a safe and scenic trail experience that maximizes opportunities to connect to the waterfront and link public facilities and resources. These facilities differ in terms of the user groups they serve and the experience they provide.

**Primary Corridor** The primary corridor is based on the shoreline route proposed in the Kitsap County Greenways Plan. It provides a direct and continuous route between Kingston and Southworth that is clear and easy to follow. For this reason, it has appeal for commuters, tourists and recreational trail users. Physical improvements in the primary corridor in order of most to least desirable include separated pathways, bicycle lanes, paved shoulders, shared roadways and shared sidewalks.

**Secondary Corridor** The secondary corridor provides alternate routes and loop opportunities, beginning and ending at the primary corridor. The secondary corridor follows less traveled, less direct roadways that provide an experience that is alternative to the primary corridor. It links resources and facilities that would otherwise be bypassed by the primary corridor. Examples include a loop to the Indianola dock that leaves the primary corridor at West Kingston Road and returns to it at Miller Bay Road, and a loop through the Scandia Farms area. As in the primary corridor, proposed physical improvements in order of most to least desirable include separated pathways, bicycle lanes, paved shoulders, shared roadways and shared sidewalks.

**Connections** These are short segments of trail that serve to link the primary or secondary corridor to points of interest, resources, and off-road trails. Examples include connections to Manchester State Park and Old House State Park in Suquamish, and connections to Mosquito Fleet dock sites. Connections may include physical improvements such as the addition of bicycle lanes or paved shoulders or they may simply require directional signage that points users from the Mosquito Fleet Trail to an adjacent facility or off-road trail.
Cross Sections

The Mosquito Fleet Trail is intended to primarily serve cyclists and pedestrians and where possible, equestrians as well. When designing cross section alternatives it was necessary to balance the needs of particular user groups against the constraints of the existing conditions. In addition federal funding sources require that facilities for pedestrians and cyclists meet certain minimum standards. With these considerations in mind, six cross section alternatives were considered as described below. Specific guidelines for cross section design are addressed in Part Four of this plan.

Off-Road Trail This cross section applies to segments of the corridor that are not associated with road right-of-way. The design of the trail is wide enough to accommodate two-way shared usage by bicyclists and pedestrians (10’ minimum, 12’ preferred). Surfacing options include asphaltic concrete, Portland cement, gravel, or soft surface. The latter is preferred if equestrian usage of the trail is expected. To some extent this cross section is an anomaly as the trail corridor is road related along its whole length. However, there are opportunities to connect to and cross through open space, park land, and planned unit developments. Examples include the planned golf course residential development in the Indianola area, Nelson Park in Poulsbo, and Annapolis Park in the Port Orchard area.

Certain off-road trails may be designed to accommodate pedestrian usage only. In the Gorst area, the opportunity exists to develop a trail on the water side of the existing buildings. Due to the sensitivity of this marsh landscape, a boardwalk trail for pedestrian usage is likely to be the most viable solution. For cyclists, these are opportunities to get off their bicycles and appreciate the views at a slower pace.

Separated Trail In areas where the road right-of-way is wide enough, a two-way separated path for shared usage is possible. As with the off-road trail cross section, surfacing options include asphaltic concrete, Portland cement, gravel, or soft surface. Separated trails are typically preferred by less skilled cyclists, who do not feel comfortable maneuvering along traffic. Often bicycle commuters and more skilled cyclists prefer to use on-road bicycle facilities due to the predictability of traffic and the desire to ride at higher speeds. For this reason, the separated trail cross section includes the provision of paved shoulders alongside the roadway.

Roadways are rarely located in the center of road right-of-way. Without a survey of the corridor, it is difficult to determine in the field how much right-of-way is available on either side of the roadway. In some instances, accommodating a separated trail could involve shifting the road centerline to one side or the other. To maximize the waterfront experience, a separated trail is preferred on the waterside of the roadway where the corridor is adjacent to the shoreline.

Bicycle Lanes The bicycle lanes cross section accommodates cyclists in a designated striped lane and pedestrians either in the shoulder or on a sidewalk in the case of a curbed roadway. For reasons of safety, bicycle lanes are always one-way facilities traveling in the direction of traffic designated for exclusive use by bicyclists.

Paved Shoulders Paved shoulders are for shared usage by bicyclists and pedestrians. In traffic situations shoulders are often used by stopped vehicles and for emergency uses. Even so, a paved shoulder goes a long way to enhancing the corridor for use by bicyclists and pedestrians.
**Shared Roadway**  When right-of-way widths and existing roadway conditions prohibit the addition of bicycle facilities, a roadway can be designated for shared use by motorists and bicyclists. Typically, this design solution is used on roadways with low traffic speeds and low levels or traffic or with wide curb lanes.

**Shared Sidewalk**  A shared sidewalk cross section allows cyclists to share the sidewalk with pedestrians. This cross section was considered as a last resort solution in isolated situations such as across bridges and along high speed and high trafficked roadways, which lack adequate right-of-way for the provision of bicycle lanes, but have existing sidewalks. On sidewalks, bicyclists are expected to yield to pedestrians and walk their bicycles if sidewalks are particularly narrow.

Both the shared roadway and shared sidewalk cross sections are included among the alternatives as means to fill in gaps at difficult locations along the primary trail corridor. Neither is considered an optimum solution and both are avoided where possible.
Additional Facilities and Amenities

The development of alternative concepts for additional facilities and amenities considered ways to enhance the trail experience and accommodate user needs. In the questionnaire sent out to residents and businesses along the corridor and posted on the County’s website, respondents were asked to *Describe features that would enhance the trail*. Comments were helpful and specific. Among the most common responses, were requests for rest areas/viewpoints, interpretive signage and historic markers, benches, picnic tables, drinking fountains, safety measures, a separated wide trail, and restrooms. A complete listing of these answers is included in the Appendix of this report.

The first phase of trail development typically focuses on providing a safe trail experience. This is accomplished by proper cross section design as addressed in the previous section and through signing and striping. The later addition of amenities at rest areas and viewpoints adds to the overall enjoyment of the trail experience.

**Signing & Striping** Typically signing and striping are selected and located to serve three basic needs; they should provide direction as users move along the corridor; they should warn users of upcoming hazards; and they should advise users and motorists of the rules of the road. Signing can also serve educational needs by providing interpretation of historical sites, interesting features and resources. Suggested signing and striping are described and illustrated in the Design Guidelines in Part Four of this plan.

**Rest Areas/Viewpoints** Amenities at rest areas and viewpoints can include seating, water, bicycle parking, interpretive signage, informational kiosks, picnic shelters and restrooms. The Mosquito Fleet trail corridor is routed to connect with existing facilities, including parks, marinas and docks, which include amenities such as restrooms, water, picnic areas, and camping. Through coordination between Kitsap County Public Works, Kitsap County Parks and Recreation and the Port Districts, small parks and docks along the corridor that are lacking facilities could be improved to greater serve trail user needs by the addition of bicycle parking, benches, water and interpretive signage.

As trail use increases, Kitsap County Public Works should look into developing street end right-of-ways including abandoned Mosquito Fleet dock sites as viewpoints and rest areas. Suggested locations are indicated in the mapping and project descriptions in Part Four of this plan and preliminary designs are illustrated in the Design Guidelines.
Following are guidelines for trail design and for additional facilities and amenities. These serve as the basis from which to develop the trail at the project level. Guidelines for bicycle facilities are based on standards set by the Federal Highway Administration in its *Guidelines for the Development of Bicycle Facilities* (AASHTO, 1999).

**Off-Road Trail** A two-way multi-use trail is recommended for the off-road trail cross section. Multi-use trails should be 10 feet wide in areas of anticipated low usage and 12 feet wide in areas of high volume usage. A paved surface (asphaltic concrete or Portland cement) is recommended for both reasons of durability and to accommodate road bikes. If equestrian use is expected, a soft surface is preferred.

There may be opportunities along the corridor to develop an off-road trail that would not be able to accommodate bicycles due to site constraints such as steep slopes and hydric soils. In these instances a soft surface or boardwalk pedestrian only trail is recommended with bicycle parking located at the trailhead.

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<tr>
<th>FACILITY</th>
<th>WIDTH</th>
<th>SHOULDER</th>
<th>HORIZONTAL CLEARANCE</th>
<th>VERTICAL CLEARANCE</th>
<th>GRADE</th>
<th>CROSS SLOPE</th>
<th>DESIGN SPEED</th>
<th>CURVE RADIUS</th>
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</table>
| 2-way Multi-Use Off-Road Trail | 10' minimum (low volume)  
12' preferred (high volume) | 2' graded | 2' minimum           | 8' minimum  
10' preferred       | 5% maximum  
2% preferred       | 2%       | 20 mph  
(30 mph for grades > 4%) | R=$\sqrt{\frac{e+f}{15}}$  
(95 R. @ 20 mph) |
**Separated Path**  Separated paths are two-way facilities for shared use by bicyclists and pedestrians, and if desired, equestrians as well. The recommended width for a 2-way multi-use path is 10 feet for areas of anticipated low usage and 12 feet for areas of high volume usage. The recommended spacing between the road edge and the edge of path is 5 feet (6 feet is preferred). Planting in the separation should be selected for its appropriateness within the local landscape, using native species as much as possible, and should not interfere with sight distance and visibility. A paved surface (asphaltic concrete or Portland cement) is recommended for both reasons of durability and to accommodate road bikes. If equestrian use is expected, a soft surface is preferred. Refer to the *Kitsap County Bicycle Facilities Plan* (December 2000) for specific design guidelines on separated pathways.

A separated path should not replace on-road bicycle facilities. Portions of the trail corridor that have a separated path, should include either bicycle lanes (4 to 5 feet) or paved shoulders (2 to 4 feet) along the roadway.

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<tr>
<th>FACILITY</th>
<th>WIDTH</th>
<th>SEPARATION FROM MOTOR VEHICLES</th>
<th>SHOULDER</th>
<th>HORIZONTAL CLEARANCE</th>
<th>VERTICAL CLEARANCE</th>
<th>GRADE</th>
<th>CROSS SLOPE</th>
<th>DESIGN SPEED</th>
<th>CURVE RADIUS</th>
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<tbody>
<tr>
<td>2-way Bicycle/ Pedestrian Path</td>
<td>10’ minimum (low volume) 12’ preferred (high volume)</td>
<td>5’ minimum 6’ preferred</td>
<td>2’ graded</td>
<td>2’ minimum 8’ minimum 10’ preferred</td>
<td>5% maximum 2% preferred</td>
<td>2%</td>
<td>20 mph (30 mph for grades &gt; 4%)</td>
<td>R=v²/15 (e+f) (95 R. @ 20 mph)</td>
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**Bicycle Lanes**  Bicycle lanes are always one-way facilities that move in the same direction as motorized vehicles. For safety reasons, bicycle lanes are designated for exclusive use by bicyclists and should not be used by pedestrians. Pedestrians should be provided with sidewalks in urban areas. Along rural roads and in less developed areas, pedestrians should be provided with a 3’ gravel or paved shoulder outside the bicycle lane. On one-way streets the bicycle lane should be located on the right hand side of the roadway. Refer to the *Kitsap County Bicycle Facilities Plan* (December 2000) for more detailed information on the design of bicycle lanes.

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<th>FACILITY</th>
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<th>SHOULDER</th>
<th>HORIZONTAL CLEARANCE</th>
<th>VERTICAL CLEARANCE</th>
<th>CROSS SLOPE</th>
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<tbody>
<tr>
<td>1-way bicycle lane with curb, pedestrians use sidewalk</td>
<td>5’ minimum (4’ minimum to gutter edge)</td>
<td>NA</td>
<td>2’ minimum</td>
<td>8’ minimum 10’ preferred</td>
<td>2%</td>
</tr>
<tr>
<td>1-way bicycle lane without curb, pedestrians use shoulder</td>
<td>4’ minimum, 5’ recommended (if posted speed over 35 mph)</td>
<td>1’ graded (3’ minimum for pedestrian use)</td>
<td>2’ minimum</td>
<td>8’ minimum 10’ preferred</td>
<td>2%</td>
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</table>
**Paved Shoulders** Bicyclists should use paved shoulders as they would bicycle lanes, traveling one-way in the same direction as motorized vehicles. Along roadways without curbs, paved shoulders are intended for shared usage by bicyclists and pedestrians. To pass slower traveling pedestrians, cyclists should signal and merge into the travel lane. Along roadways with curbs, pedestrian travel should be accommodated on sidewalks.

Paved shoulders are differentiated from bicycle lanes because they are not designated for exclusive use by bicyclists. Stopped and emergency vehicles may use the shoulder area and can thereby hinder continuous travel by bicyclists and pedestrians. Recommended widths for paved shoulders are 4’ on roads without curbs and 5’ on roads with curbs. In high traffic situations or along roadways with posted speeds of over 50 mph, additional shoulder width is recommended. If adequate right-of-way prohibits the development of a 4 to 5 feet shoulder, then paving a 2 to 3 feet shoulder is recommended. Even this much additional shoulder will substantially improve the safety of the roadway for use by bicyclists and pedestrians.

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<th>FACILITY</th>
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<th>HORIZONTAL CLEARANCE</th>
<th>VERTICAL CLEARANCE</th>
<th>CROSS SLOPE</th>
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<td>1-way shoulder with curb</td>
<td>3’ minimum</td>
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<td></td>
<td>5’ recommended</td>
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<td>1-way shoulder without curb</td>
<td>2’ minimum</td>
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<td></td>
<td>4’ recommended</td>
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</table>
**Shared Roadway**  Shared roadways are defined as roadways with shared usage by motor vehicle and bicycle travel (American Association of Highway Transportation Officials, 1999). The most serious concern with shared roadways is the available width for these two modes of transportation. In order to safely sign a shared roadway as a bicycle route, it is preferred that the roadway have paved shoulders (2 feet minimum) or wide curb lanes (14 to 15 feet). Shared roadways are only recommended as a way to fill a gap in the trail corridor where right-of-way widths and existing road conditions preclude the development of facilities for bicyclists. Along curbed roads, pedestrians are expected to use the sidewalk. On rural roads, pedestrians should use the shoulder or graded area at the edge of the roadway.
Shared Sidewalk  The shared use of a sidewalk by bicyclists and pedestrians is undesirable and recommended only in limited circumstances:

- On long, narrow bridges where there is not enough width to accommodate bicycle lanes or paved shoulders and where traffic volumes and speed limits are high enough to preclude shared usage of the roadway.

- In order to close gaps along the trail corridor in areas where (as above) there is not enough width to accommodate bicycle lanes or paved shoulders and where traffic volumes and speed limits are high enough to preclude safe shared usage of the roadway.

In order to facilitate safe shared usage of sidewalks, curb cuts should be flush with the street.
**Viewpoints/Rest Areas** Viewpoints and rest areas should be spaced along the corridor at regular intervals to serve the needs of local and regional trail users. The following sites are appropriate locations for the addition of Mosquito Fleet trail amenities and facilities:

- There are eight small **docks and fishing piers** between Kingston and Southworth that were once Mosquito Fleet docks. These sites provide spectacular views and are appropriate locations for interpretive signage, seating and bicycle parking. Kitsap County Public Works should work with the Port Districts to locate these facilities.

- **Washington State Ferry terminals** are major points of access to the trail corridor. Bicycle tourists and commuters may access the corridor via the Kingston, Bremerton and Southworth terminals. Washington State Ferries provides restroom and picnic facilities at Bremerton and Kingston, both former Mosquito Fleet dock sites, and bicycle parking at all its terminals. To guide trail users to the corridor and to provide orientation, directional signage should be located in the unloading areas of these terminals.

- **Waterfront parks** along the corridor are logical places for trail users to rest and picnic. Poulsbo, Port Orchard and Manette all have parks at Mosquito Fleet dock sites, which are appropriate locations for interpretive signage. Other parks are operated by Washington State Parks, Kitsap County Parks and Recreation and the municipal park departments. Directional signage from the trail to these facilities is suggested.

- Undeveloped **street end right-of-ways** dot the shoreline of Kitsap County.

These sites, in a number of instances former Mosquito Fleet dock sites, could be developed as small parks or viewpoints. Clearing a small area for a bench or picnic table is suggested to serve as a rest area and place from which to view the waterfront. Directional signage and/or interpretive signage is suggested at these sites.
**Signing**

Recommended signing fits into four categories, directional, interpretive, regulatory, and warning. Appropriate and adequate signage and pavement marking is paramount to safe bicycle and pedestrian facilities. Guidelines for signage and pavement marking can be found in the *Manual on Uniform Traffic Control Devices* (Federal Highway Administration, 1988).

- **Directional** signing is intended to guide the trail user through the primary and secondary trail corridors and to direct trail users via connections to public facilities and resources. Directional signs include orientation panels that are part of the interpretive signage program, as discussed below, and trail markers. A trail logo on directional signs that is graphic and easily recognized can aid trail users as they travel along the corridor. A countywide competition for the design of a trail logo is one way to garner support and raise enthusiasm for the trail.

- **Interpretive** signing consists of a combination of historic markers, orientation panels, interpretive panels and kiosks. Orientation panels or kiosks should be located at major access points to the trail corridor and at major rest areas/viewpoints. Suggested locations include the trail termini at the Southworth and Kingston ferry terminals. Historic markers or interpretive panels should be located at Mosquito Fleet dock sites such as the Indianola and Waterman docks and at the Kingston and Bremerton ferry terminals.

  Though the theme of this trail is the Mosquito Fleet, topics on interpretation should not be limited to Mosquito Fleet themes. Interpretation of the environment, of the natural and cultural history of the Kitsap Peninsula, and of interesting features and views from the trail will add richness to the overall interpretive program and appeal to a wider audience.

- **Regulatory** signs inform bicycle facility users and motorists of traffic laws or regulations. These signs should be located where the regulation applies and should be easily legible and visible to facility users and/or motorists.

- **Warning** signs should be used when it is necessary to alert trail users or motorists of an existing or potentially hazardous condition. Warning signs should be located preceding the upcoming hazard. Signs should be clear and kept to a minimum. The excessive use of signs can lead to total disregard for signs by trail users and motorists.
Key to the Maps

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<tr>
<th>X-Sections</th>
<th>Primary Route</th>
<th>Secondary Route</th>
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<td>Separated Path</td>
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<td>Bicycle Lanes</td>
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<td>Paved Shoulders</td>
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<th>Viewpoints/Rest Areas</th>
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<td>Historic Locations of</td>
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<td>Mosquito Fleet Docks</td>
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<td>GIS data provided by Kitsap County Department of Community Development. Maps prepared by MacLeod Reckord, December 2000.</td>
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Project 1: Kingston to Suquamish

Map of Kingston and Saltair Beach. From *Atlas of Kitsap County*, 1926.
This portion of the trail corridor passes through three communities, Kingston, Indianola and Suquamish, all of which had active docks in the Mosquito Fleet days. It is an important section of the corridor not only for the linkage of these communities and cultural sites, but also because it provides a connection to the Washington State Ferry Terminal, thereby providing a safe route for commuters and bicycle touring groups.

**Primary Route** The primary route begins at the Washington State ferry terminal and follows the ferry entrance/exit bicycle route via existing bicycle lanes and sidewalks along Washington Boulevard and Central Street. From there the route continues along Kingston Road and West Kingston Road. Kitsap County Public Works has already developed construction drawings for these roads that includes bicycle lanes and a sidewalk on the north side of the road. The county has applied for a grant to begin development of this project.

As the trail continues on Miller Bay Road there is the opportunity to develop a separated path for shared two-way use by cyclists and pedestrians. Near Cowling Creek the right-of-way narrows. Bicycle lanes are proposed from here to the Suquamish “slab area” along Miller Bay Road and Augusta Avenue.

**Secondary Route** In order to provide a connection to the waterfront community of Indianola and to the Indianola fishing pier, a secondary route is proposed along South Kingston Road and Indianola Road. Beginning at West Kingston Road, the route begins with a paved shoulder cross section across the Appletree Cove bridge. South of the bridge the right-of-way widens. From here to Arness Road, a separated pathway is proposed. The route continues to the Indianola Pier, connecting to Indianola Road with bicycle lanes along this whole stretch. From South Kingston Road to Miller Bay Road a separated pathway is proposed along Indianola Road. The combination of the primary and secondary route provides a loop trail of approximately 9 miles beginning and returning to West Kingston Road via South Kingston Road, Indianola Road and Miller Bay Road.

**Connections** There are a number of possibilities to connect to future off-road trail corridors and undeveloped street ends in this area. A trail corridor first proposed in the Kitsap County Greenways Plan connects the schools along West Kingston Road with Kingston Nike Park and Carpenter Lake, terminating at Barber Cutoff Road. South of West Kingston Road a proposed residential and golf course development is an opportunity to develop off-road trail connections to Indianola Road and Miller Bay Road. A third route identified as a wildlife corridor in the Kitsap County Greenways Plan follows Cowling Creek from the hatchery at Miller Bay Road to the Place of Bear, an undeveloped park property, then continues across Totten Road and SR 305 to the outlet of the creek. In the Suquamish Rural Village Subarea Plan this corridor is identified for protection through conservation easements and suggested as a possible trail link.

The Suquamish plan also identifies a number of public right of way road ends which are potential public access points to the shoreline. Both Pebble Beach Drive and James Street provide connections from Augusta Avenue to the waterfront and are potential sites for viewpoints or rest areas.

**Cultural Resources** Cultural resources along this portion of the corridor include former Mosquito Fleet Dock sites at Kingston, Indianola and Suquamish, the old Kingston Schoolhouse in Kingston Village Green Park, and the Cemetery off of W. Kingston Road.
Public Facilities  Following are the public facilities that the Mosquito Fleet Trail will serve between Kingston and Suquamish.

Recreation Facilities:  Mike Wallace Park, Kingston Marina, Kingston Village Green, Carpenter Lake, Arness County Park, Indianola Dock, Greater Peninsula Conservancy Open Space, Grover’s Creek Salmon Hatchery, Cowling Creek Salmon Hatchery, Suquamish Nature Preserve, Pathway Park, Pat Brandt Park, Suquamish Dock

Community Facilities:  Port of Kingston, Richard Gordon Elementary School, Spectrum Alternative School, Kingston Junior High School, Suquamish Elementary School

Transit Facilities:  Washington State Ferry Terminal, Park & Ride at Barber Cut-off Rd./W. Kingston Rd., Bayside Community Church, Park & Ride at Division St. and Geneva, Suquamish Community Congregational United Church

Viewpoints/Rest Areas  A number of sites lend themselves to the development of viewpoints and rest areas. In Kingston, Arness County Park offers a public beach with expansive views of Appletree Cove. The Indianola and Suquamish Fishing Piers are appropriate sites for viewpoints both because of their connection to Mosquito Fleet history and because of the scenic value of the sites.

In the Suquamish Rural Village Subarea Plan rest areas and viewpoints are proposed along their bicycle routes. Two of these are also appropriate for this plan, the first is a rest area off of Miller Bay Road at the Cowling Creek Fish Hatchery and the second is at the Suquamish Fishing Pier (referred to as the “Slab Area” in the Suquamish Plan), as mentioned previously.
Project 2: Suquamish to Poulsbo

Map of Lemolo Area and Dock. From Atlas of Kitsap County, 1926.
This portion of the corridor connects Suquamish to Poulsbo and the Kitsap Peninsula to Bainbridge Island. Through the combination of a primary and secondary route, a connection to the Agate Pass Bridge and Bainbridge Island is possible, as well as a more scenic wooded alternative route.

**Primary Route** The primary route begins at the Suquamish slab area with a bicycle lane cross section along Suquamish Cut-off Road. At the intersection with Totten Road, the primary route turns onto Totten while a secondary route continues on Suquamish Cut-Off Road. A separated pathway for shared use is proposed all along Totten Road. This portion of the corridor is primarily wooded and much less trafficked in comparison to Suquamish Cut-Off Road and SR 305 and could provide a true off-road trail experience.

At the intersection with SR 305 the primary corridor crosses the highway and continues on Lemolo Shore Drive to Poulsbo. From SR 305 to Tukwila Road, bicycle lanes are proposed. Continuing from here to Johnson Way, the right-of-way widens and a separated pathway is proposed. In preliminary Mosquito Fleet studies, a separated pathway was proposed along Lemolo Shore Drive from Tukwila Road to 6th Avenue in Poulsbo. In Summer 2001, the City of Poulsbo is planning to construct a path along Lemolo Shore Drive and Fjord Drive from Hostmark Street in Poulsbo to Johnson Way. Their survey indicates that there is not enough right-of-way along this portion of the corridor to develop a separated shared use pathway for use by bicyclists and pedestrians. Instead the City is proceeding with the development of a paved shoulder pathway adjacent to the roadway on the water side of the road. While this will provide an adequate pathway for pedestrians, it leaves cyclists forced to share the roadway with traffic. A preferable solution would provide bicycle lanes or paved shoulders on both sides of the roadway.

**Secondary Route** The secondary route consists of bicycle lanes along Suquamish Cut-Off Road and SR 305 from Totten Road in Suquamish to the Agate Pass Bridge and from there to Lemolo Shore Drive. This route provides a commuter and bicycle tourist connection to Bainbridge Island. Much of SR 305 already has wide shoulders that could be converted to bicycle lanes with relative ease.

The main difficulty along this portion of the corridor is the Agate Pass Bridge. A combination of steep and narrow sidewalks, narrow travel lanes, and high speed traffic make it difficult to cross as a cyclist. Improvements are sorely needed to provide a safe connection between Bainbridge Island and the Kitsap Peninsula. In the Kitsap County Bicycle Facilities Plan, two potential solutions are suggested. The first solution removes the sidewalks and replaces them with paved shoulders for shared use by pedestrians and cyclists. The second solution hangs an additional structure off of the bridge for shared two-way usage. The feasibility of this option will require further engineering studies to determine the bridge’s capacity to support such a structure.

**Connections** Suggested connections link the trail to cultural resources, recreation sites, and Bainbridge Island. Cultural resources to connect to include Memorial Cemetery, the site of Chief Sealth’s grave, Old Man House State Park Heritage Area and the Suquamish Museum and Tribal Center. There is a possibility to connect to an undeveloped park site called the Place of Bear via an off-road trail. The Suquamish Rural Village Subarea Plan identifies Cowling Creek as a wildlife corridor and suggests that it could provide a possible trail route from the Hatchery at Cowling Creek through the Place of Bear, across Totten Road and SR 305 to its outlet.
A connection to Bainbridge Island via the Agate Pass Bridge, as described previously, is an important link to sites and facilities in Bainbridge Island, as well as to the Washington State Ferry terminal in Winslow. Connections are also suggested to the Arrowhead Place and Klah-Ha-Ne Road street ends, suggested viewpoint sites described below.

**Cultural Resources**  From Suquamish to Poulsbo there are a number of cultural resources of significance in Suquamish history, including Chief Sealth’s Grave at Memorial Cemetery, Old Man House State Park Heritage Area, and the Suquamish Museum and Tribal Center. Other resources include the Agate Pass Bridge, dedicated on October 1949, the Lemolo Market, a Lemolo community landmark, and the site of the Lemolo Mosquito Fleet dock.

**Public Facilities**  Public facilities between Suquamish and Poulsbo include three parks, Story Pole Park, Place of Bear (undeveloped), and Old Man House State Park, and a park & ride facility at the Agate Pass Bridge.

**Viewpoints/Rest Areas**  Two undeveloped street ends are potential locations for use as viewpoints and rest areas. Arrowhead Place NE lies to the south of SR 305 and the Agate Pass Bridge and provides views of Agate Passage. Klah-Ha-Ne Road is on the Lemolo Peninsula and looks out over Ne-Si-Ka Bay. Old Man House State Park also provides excellent views and picnic facilities. A connection to this park will add to the richness of the Mosquito Fleet trail experience.
Project 3: Poulsbo

American Legion Park Viewpoint
To American Legion Park & Poulsbo Waterfront Trail
To Liberty Bay Park & Poulsbo Waterfront Trail
Poulsbo Marina & Liberty Bay Park
Fjord Drive
New Park Site Viewpoint

To Proposed Dogfish Creek Trail
Nelson Park
Road 59 Trail Viewpoint
Viking Way

New Park Site Viewpoint
Ford Drive

PART FOUR: DESIGN RECOMMENDATIONS
The City of Poulsbo offers interesting features and resources and a picturesque waterfront. Its narrow urban roadways pose difficulties in terms of the development of bicycle facilities. The combination of the primary and secondary corridor offers a safer upland route and a more scenic but constrained shoreline route.

**Primary Route** The City of Poulsbo is currently planning the construction of a paved shoulder pathway for pedestrian usage along Fjord Drive and Lemolo Shore Drive from Hostmark Street to Johnson Way. Along stretches of this corridor, the City is planning to shift the road centerline inland in order to accommodate a paved shoulder pathway on the waterfront side of the roadway. In some instances this will eliminate the existing shoulder on the inland side of the roadway, causing cyclists to share the roadway with traffic. A preferable solution would provide paved shoulders or bicycle lanes on both sides of the road. The secondary corridor provides an alternate route to Fjord Drive for trail users who are not comfortable sharing the roadway.

From Fjord Drive, the primary corridor continues on Hostmark Street with bicycle lanes and sidewalks. At Front Street, the available roadway narrows due to wide sidewalks and curb cuts for parallel parking on one side of the road. Cyclists will have to share the roadway with traffic from Hostmark Street to just north of King Olav Vie. Continuing along, the available right-of-way widens, accommodating bicycle lanes to Sunset Street and a separated path from Sunset Street to Lindvig Way. It is possible that the separated path can start farther south if park land on the west side of the roadway is utilized.

Lindvig Way is a five-lane roadway with sidewalks on either side crossing over Dogfish Creek. The existing structure can not accommodate improvements for bicycles. If in the future, the City rebuilds this roadway, bicycle lanes should be included in the cross section. At present it is recommended that cyclists share the sidewalk with pedestrians. From Lindvig, the primary corridor continues along Viking Way where the City of Poulsbo has just completed improvements that include bicycle lanes and sidewalks.

**Secondary Route** Two secondary routes offer bicyclists alternatives to sharing the roadway with motorists. The first begins at Fjord Drive on 6th Avenue with a bicycle lane cross section to Hostmark Street. From 6th Avenue and Hostmark Street to the intersection of Fjord Drive and Hostmark Street paved shoulders are recommended. The second route connects Hostmark Street to Front Street via 3rd Avenue, Moe Street, Jensen Way, and Sunset Street. Bicycle lanes are proposed along this whole stretch. There are sidewalks on at least one side of the road along all the secondary routes in Poulsbo.

**Connections** Connections in Poulsbo offer trail users the opportunity to connect to off-road trail systems that are closer to the shoreline. The Poulsbo waterfront trail begins at the Poulsbo Waterfront Park and connects to American Legion Park via a combination of a paved pathway and boardwalk. In the West Poulsbo Master Plan, the City of Poulsbo proposed the development of a trail along Dogfish Creek. A connection from Lindvig Way to this trail will offer opportunities to watch spawning salmon. The City is also planning to develop a park at the Nelson Farm property at Lindvig and Viking Ways. Connections are suggested from Lindvig Way and from Viking Way via Edvard Street into the park. A connection to the Road 59 trail and viewpoint from Viking Way via Liberty Road is also suggested.
Cultural Resources The City of Poulsbo has a number of cultural resources, including the Poulsbo Marine Science Center, the historic Lutheran Church, and Nelson Farm. In Mosquito Fleet days, ships docked at what is now the Poulsbo Marina. The historic center of the city with its pristinely maintained buildings is also a valuable resource.

Public Facilities In the Poulsbo area, the trail corridor connects to and links the following public facilities:

Recreation Facilities: Poulsbo Yacht Club, Lion’s Municipal Park, Liberty Bay Park, Poulsbo Marina & Boat Launch, Poulsbo Waterfront Trail, Moe St. trail, American Legion Park, Nelson Park, Road 59 Trail

Community Facilities: Poulsbo Community Center, Poulsbo City Hall

Transit Facilities: Park & Ride at Hostmark St./8th Ave., Christ Memorial Church, Park & Ride at Viking Way/Lindvig Way, Poulsbo Junction

Viewpoints/Rest Areas There are two existing viewpoints along this portion of the trail corridor. One is off of Front Street at American Legion Park and the other is at the Road 59 trail terminus at the end of Liberty Road. An undeveloped park property along Fjord Drive could serve as an additional rest area or viewpoint in the future.
Project 4: Poulsbo to Brownsville

Map of Scandia and Pearson.
From Atlas of Kitsap County, 1926.
From Poulsbo to Brownsville, the corridor passes through scenic rural and forested neighborhoods. In Mosquito Fleet times, the sinuous shoreline in the Scandia area lent itself to the development of numerous small docks. Though most of these have been replaced with private residences, there are other opportunities to connect to the shoreline and enjoy the scenic bay views.

**Primary Route** The primary corridor begins at the Poulsbo city limits on Viking Way with a separated path cross section, continuing on SR 308 and Washington Avenue to the Keyport Marina. A separated path is also recommended for SR 308 from Viking Way to Brownsville Highway. Across Dogfish Bay and through the Keyport Peninsula, the cross section changes to bicycle lanes.

The corridor continues from Keyport to Brownsville along the Brownsville Highway. Here the right-of-way width can accommodate a separated path section for most of the way. Along the center section bicycle lanes are suggested. Due to the wide right-of-way widths of Viking Way, SR 308 and Brownsville Highway, this is one of the longest stretches along the corridor where a continuous separated path cross section is possible.

**Secondary Route** The secondary corridor travels through small farms and rural residential neighborhoods. The first loop links Viking Way to SR 308 via Scandia Road and Virginia Loop Road. The second forms a loop with Brownsville Highway, following South Keyport Road and Ogle Road. As these are narrow rural roads, a paved shoulder cross section is recommended for all the secondary routes.

**Connections** Suggested connections link the secondary corridor to two potential viewpoint sites, both of which are undeveloped street ends. The first is in the

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Map of the Keyport area.
From *Atlas of Kitsap County, 1926.*
Scandia area at the end of Scandia Road and the other is right-of-way off of South Keyport Road, just south of Lonetree Court.

**Cultural Resources** Cultural resources include five Mosquito Fleet dock sites and the Naval Undersea Museum in Keyport. Among the Mosquito Fleet sites, only Brownsville still has public access.

**Public Facilities** Public facilities between Poulsbo and Brownsville include the Keyport Saltwater Park, the Keyport and Brownsville Marinas, the Brownsville Marine Park, Hilder Pearson Elementary School and a Park & Ride at Viking Way/SR 308.

**Viewpoints/Rest Areas** Five sites are suggested for viewpoints and rest areas, two of which are existing facilities. The first of these is the Keyport Saltwater Park, situated on Dogfish Bay adjacent to SR 308, which would be a good location for a Mosquito Fleet rest area. The second is the Brownsville Marine Park, which has existing picnic and restroom facilities and would be an appropriate location for a Mosquito Fleet interpretive sign and orientation panel.

Two undeveloped street ends and an open space property along Brownsville Highway would add needed viewpoints along segments of the corridor that are lacking facilities. The first street end is off of Viking Way at the end of Scandia Road and the second is off of South Keyport Road just south of Lonetree Court.
Project 5: Brownsville to Bremerton

Map of Brownsville, Gilberton and Illahee. Chas. F. Metsker, 1926.
From Brownsville to Bremerton the trail corridor travels along scenic roads close to the shoreline, offering open and screened views of Port Orchard Bay.

**Primary Route** Beginning in Brownsville, the primary route follows Illahee Road, crossing over a short bridge just south of Brownsville and then continuing through Gilberton and Illahee to Trenton Avenue. The bridge has existing paved shoulders. If the bridge is rebuilt at some point in the future, bicycle lanes and sidewalks are recommended. Bicycle lanes are recommended from the bridge to slightly south of the Illahee Dock. From there to Sylvan Way, the right-of-way widens allowing room for a separated path. The route continues to Bremerton on Trenton Avenue with bicycle lanes.

**Connections** Suggested connections link the corridor to the Gilberton Mosquito Fleet dock site via Utah Street and to Illahee State Park via Sylvan Road. A recommended bicycle route in the *Kitsap County Bicycle Facilities Plan* (December 2000) connects Illahee Road to the Rollin Hills Golf Course via Ocean-view Boulevard and McWilliams Road.

**Cultural Resources** Cultural resources include Mosquito Fleet dock sites at Gilberton and Illahee.

**Public Facilities** Public facilities along Illahee Road include the Brownsville Elementary School, the Illahee Dock and Illahee State Park. Facilities within the vicinity of the corridor include the Rollin Hills Golf Course and Esquire Hills Elementary School.

**Viewpoints** Two viewpoints are suggested along Illahee Road. Both are Mosquito Fleet dock sites and potential sites for interpretive signage or historic markers. The first is an undeveloped street end off of Utah Street. The remnants of the Gilberton dock can still be seen jutting out of the water. The second is the Illahee Dock, which offers facilities for fishing and diving. Illahee State Park can also serve as a rest area for trail users. It offers numerous facilities, including a campground, picnic area and boat launch.
Project 6: Bremerton

Bremerton Waterfront Park
U.S.S. Turner Joy

To Seattle via Washington State Ferry
To Annapolis Via Horluck Ferry

To Port Orchard Via Horluck Ferry

To Annapolis Via Horluck Ferry
Map of the Bremerton Wharf area.
From Atlas of Kitsap County, 1926.
The City of Bremerton is a major access point to the Mosquito Fleet trail corridor for trail users accessing the corridor via ferry and for city residents and workers at the Naval Shipyard and other Bremerton businesses. Though there are sidewalks on most city streets, Bremerton is sorely lacking in terms of adequate facilities for bicyclists and could benefit greatly from this trail.

**Primary Route** Bremerton’s narrow and highly traveled urban roads pose challenges for the development of a safe trail corridor. Throughout this stretch of the primary corridor, pedestrians are accommodated on existing sidewalks. Beginning on Trenton Avenue, paved shoulders are proposed from Sylvan Way to 11th Street. From here to the Manette Bridge, bicycle lanes are recommended on 11th Street, Pitt Street, and Harkins Street. The existing Manette Bridge has a narrow sidewalk on one side of the bridge and no facilities for bicyclists. The Washington State Department of Transportation (WSDOT) is planning the construction of a new bridge that will include sidewalks and bicycle lanes. In the meantime, bicyclists are advised to walk their bicycles on the sidewalk.

After crossing the Port Washington Narrows, the trail picks up on Washington Avenue. From the bridge to 6th Street, the existing roadway already maximizes the available right-of-way. Due to a change of grade in the middle of the road, it would be difficult to realign the roadway for bicycle facilities. Along this stretch, bicyclists should share the sidewalk with pedestrians. From 6th Street to 1st Street, paved shoulders are recommended.

In order to coordinate with the ferry entrance and exit routes and with existing one-way streets, a system of one-way bicycle lanes located on the right hand side of the roadway are proposed. The westbound bicycle lane follows 4th Street from Washington Avenue to Naval Avenue and the eastbound lane follows 5th Street between the same cross streets. The one-way bicycle lane entrance onto the ferry is via Pacific Avenue and 1st Street. The one-way bicycle exit is via Washington Avenue.

From 5th Street/4th Street, the route continues on Naval Avenue, Burwell Street and Charleston Boulevard. Bicycle lanes are recommended on all these roads. On Naval Avenue and Burwell Streets, adding bicycle lanes will require removing one lane of traffic. Naval Avenue is currently a five lane roadway and Burwell Street has four travel lanes. The City of Bremerton recently restructured the eastern por-
tion of Burwell to remove one travel lane and add bulbed out sidewalks, street trees and parallel parking. It is recommended that on the western part of Burwell, bicycle lanes be added instead of bulb outs and parallel parking.

The City is currently constructing Charleston Boulevard, which is replacing houses and existing roads to create a tree-lined gateway into Bremerton. The City’s original design included bicycle lanes. Recent discussion has considered removing the bicycle lanes in lieu of parking. This would create a huge gap in the trail corridor for bicyclists and is strongly discouraged.

Secondary Route An upland route is proposed as a secondary corridor between Bremerton and Gorst. In the event that a separated path is not feasible along State Routes 3 and 304, an upland route would be a safer alternative to using the shoulders of these highways. This route begins at Charleston Boulevard at the Patten Avenue exit and follows Patten and Arsenal Way with a paved shoulder cross section.

Connections A connection is suggested to Bachman Park, a small neighborhood park and former Mosquito Fleet dock site, via Trenton Avenue from 11th Street. As an alternative to riding around Gorst, trail users can opt to take the Horseshoe Ferry from the Bremerton ferry terminal to Port Orchard and Annapolis.

Cultural Resources There are a number of cultural resources in Bremerton, including the Enetai, Manette and Bremerton Mosquito Fleet dock sites, the Manette Bridge, dedicated on June 21, 1930, the U.S.S. Turner Joy, the Kitsap County Historical Museum, and the Missouri Gate.

Public Facilities Public facilities in the City of Bremerton adjacent to the trail corridor include:

Recreation Facilities: Bachman Park, Bremerton Waterfront Park, Kiwanis Field Park

Community Facilities: Olympic View Elementary School, Mountain View Middle School, Bremerton Library, Bremerton City Hall, Community Center

Transit Facilities: Washington State Ferry Terminal, Westside Park & Ride at 6th and Montgomery, Kitsap Transit Terminal

Viewpoints Bachman Park in the Manette neighborhood and the Bremerton Waterfront Park are suggested as Mosquito Fleet rest areas. Both are Mosquito Fleet dock sites and appropriate locations for interpretive signs.
Project 7: Bremerton to Port Orchard

Map of the Charleston and Navy Yard City docks. From *Atlas of Kitsap County*, 1926.
The Sinclair Inlet is one of the most scenic stretches of the corridor. It is also the least safe part of the corridor for pedestrians and bicyclists. Cooperation between Kitsap County Public Works, the City of Bremerton, the Arizona and California Pacific Railroad, the U.S. Navy and the Washington State Department of Transportation (WSDOT) is needed to provide a safe and enjoyable trail experience between Bremerton and Port Orchard.

**Primary Route** Beginning near the Missouri Gate, the primary corridor skirts the shoreline of Sinclair Inlet between Bremerton and Gorst, following state routes for most of the way. State Route 304 is part of the City of Bremerton’s gateway project. Bicycle lanes and sidewalks were included as part of the planned improvements to the roadway. The city has been considering replacing the bicycle lanes with parallel parking. This is not recommended as it would cause a major gap in the trail corridor and force bicyclists to either share the roadway with traffic or share the sidewalk with pedestrians.

A separated path cross section is recommended along State Routes 3 and 16 and along Bay Street from State Route 304 to Port Orchard. The Arizona and California Pacific Railroad parallels State Route 3 for most of its length, then turns inland and crosses over the highway at the intersection with Sherman Heights Road. In January 1998, the City of Bremerton prepared the *SR 3/304 Transportation Improvement Project Pedestrian Access Study* to look at alternatives for the development of pedestrian facilities from Gorst to the Missouri Gate. The study cited a number of constraints, including separation requirements from the edge of the railroad (15 feet) and from the edge of the highway (concrete barrier required if adjacent to the road edge, 6 feet high fence if separated). In addition, WSDOT would like to widen State Route 3 from four to eight travel lanes, and add a twenty-two feet wide median and ten feet outside shoulders. The study concluded that bicyclists should be accommodated in the roadway shoulders and a five feet wide pathway should be constructed for pedestrian use only between the railroad and the highway.

This plan recommends that WSDOT consider narrowing the median width (or add fewer travel lanes) and consider shifting the centerline of the roadway when improvements are made to the highway to accommodate a two-way multi-use trail between the edge of roadway and the railroad. In the future, should the railroad cease operations on this line, this corridor would be a great opportunity for a rail to trail conversion project.

Along State Routes 16 and Bay Street, the development of a separated path is met with fewer constraints. WSDOT is also interested in increasing the number of travel lanes along State Route 16. When this is studied in more detail, it is advised that the design of a separated path be included in WSDOT’s studies. Developing a separated path may require shifting the road centerline and erosion control measures along State Route 16’s steep slopes.

**Secondary Route** The secondary corridor from Bremerton to Gorst is recommended as an alternative trail route in the event that safe bicycle and pedestrian facilities are not developed along State Routes 304 and 3. This route picks up at the intersection of Arsenal Way and Loxie Eagans Boulevard and follows Loxie Eagans on a bridge over State Route 3 to Werner Road. Paved shoulders are recommended for the east part of Loxie Eagans and bicycle lanes are recommended across the bridge and on Werner Road. The route continues with paved shoulders along Union Avenue, 3rd Avenue, Kent Avenue and Sherman Heights Road, connecting to the primary corridor at State Route 3.
As an alternative route around Gorst, bicycle lanes are proposed on Old Belfair Valley Road, Sam Christopherson Avenue, and Frontage Road.

**Connections**  Over the past year preliminary planning has begun for the development of an off-road trail through the Gorst Area that would utilize public open space land at the Sinclair Inlet Wildlife Viewing Area and trail easements offered by local businesses. The trail would be located on the waterside of the existing buildings, including a car dealership, church and garden center. Due to the sensitivity of these tidelands, construction of a boardwalk or soft surface trail for pedestrians only is recommended.

One of the properties the trail will pass through has been identified as a brownfields site. Kitsap County has recently received a Brownfields Assessment Demonstration Pilot Grant that will provide funds for site assessment, remediation planning, and community involvement. The property owner has agreed to fund the cleanup of the property, the development of recreational facilities, and the restoration of shoreline habitat.

**Cultural Resources**  There are two Mosquito Fleet dock sites along State Route 304, Charleston and Navy Yard City. The former site is now in railroad right-of-way and the latter is within the Naval Shipyard.

**Public Facilities**  The following public facilities are adjacent to the trail corridor between Bremerton and Port Orchard:

**Recreation Facilities:** Pixie Park, Prendergast Regional Park, West Side Viewpoint, Sinclair Inlet Wildlife Viewing Area, Ross Point Tidelands, Kitsap Marina

**Community Facilities:** West Hills Elementary School

**Transit Facilities:** Full Gospel Assembly church Park & Ride at Gorst/Belfair Valley Road

**Viewpoints**  There are spectacular views all around the Sinclair Inlet of wildlife, mountains, ships and water. Two existing viewpoints are adjacent to the corridor. The West Side Viewpoint, located just above State Route 304 in the City of Bremerton, provides facilities for picnicking. The Sinclair Inlet Wildlife Viewing Area along State Route 16 is a scenic location from which to observe native birds feeding in the tidelands. A third site, an undeveloped roadside beach area at Ross Point, is recommended for the development of an additional Mosquito Fleet rest area.
Project 8: Port Orchard

Port Orchard Marina

To Bremerton via Horluck Ferry

Port Orchard Waterfront Park

To Veteran’s Memorial Park via Proposed Karcher Creek Trail

Annapolis Recreation Area

Public Boat Launch

To Port Orchard Urban Waterfront Walkway

Bay Street

To Proposed Blackjack Creek Viewpoint Via Maple Avenue

Right and Opposite:
Maps of Sidney (now Port Orchard) and Annapolis.
From Atlas of Kitsap County, 1926.
Port Orchard offers numerous opportunities to connect to scenic sites and off-road trails. Suggested facilities reflect proposed trails and viewpoints included in Port Orchard’s Comprehensive Parks Plan (1994).

**Primary Route** The primary corridor follows Bay Street through the City of Port Orchard, hugging the shoreline for much of the way. From Dogwood Hill Road to Kitsap Street, a separated path cross section is proposed on the waterside of the roadway. From Kitsap Street to Bethel Avenue, bicycle lanes are recommended. Through the downtown portion of Port Orchard (from Orchard Avenue to Harrison Avenue) the provision of bicycle lanes will require eliminating either the center turn lane or parallel parking from one side of the street.

From Sidney Avenue to Mitchell Point, a separated path cross section is recommended on the waterside of the road. The corridor narrows at Mitchell Point. Continuing from here to Olney Avenue, paved shoulders are recommended. Through coordination with Kitsap County Parks and Recreation, a separated path cross section could be developed from Retsil Road to Olney Avenue, by utilizing property at the Annapolis Recreation Area.

**Connections** There are a number of opportunities in Port Orchard to connect to planned off-road trails and viewpoints. The Port Orchard Urban Waterfront Walkway was first planned in 1985 and has since been adopted as part of Port Orchard’s Comprehensive Parks Plan (1994). It proposes a 6 feet wide multi-use trail from the DeKalb Street Pier to the Retsil Veteran’s Home. This is a substandard width for a shared use path. A re-evaluation of this walkway that integrates recommendations made in this plan is advised.

The Blackjack Creek Comprehensive Management Plan (1987) recommended development of a viewpoint along Blackjack Creek, a connection to this via Maple Avenue is suggested.

Recently there has been interest expressed by South Kitsap residents to develop a trail along Karcher Creek. Should this be pursued, it would provide a link between South Kitsap Community High School, Veteran’s Memorial Park, the Annapolis Recreation Area and the Mosquito Fleet trail.
As an alternative to traveling around Gorst, the Horluck Ferry provides connections from the Annapolis Recreation Area and the Port Orchard Marina to downtown Bremerton. This is also an opportunity for trail users to travel on a real Mosquito Fleet ship, the Carlisle II, built in the San Juan Islands around 1917, and part of the Horluck Fleet since 1934.

**Cultural Resources**  Cultural resources in Port Orchard include two museums, the Sidney Museum and Log Cabin Museum, both located on Sidney Avenue, a short distance from the trail corridor. The Sidney Museum, has exhibits on Kitsap County’s history including a permanent display of Mosquito Fleet routes. The Log Cabin Museum also has exhibits related to Kitsap history, displayed in an authentic log cabin. There are also two Mosquito Fleet dock sites, Port Orchard (now the Port Orchard Marina) and Annapolis, located at Mitchell Point.

**Public Facilities**  Public Facilities in the City of Port Orchard include the following:

**Recreation Facilities:** De Kalb Street Pier, Port Orchard Boat Launch, Port Orchard Marina, Port Orchard Waterfront Park & Boardwalk, Annapolis Recreation Area

**Community Facilities:** Port Orchard City Hall, Port Orchard Library

**Transit Facilities:** Horluck Ferry Terminals at Port Orchard and Annapolis, Kitsap Transit Terminal

**Viewpoints/Rest Areas**  There are existing facilities at all three of the suggested viewpoint and rest area sites in Port Orchard. The Public Boat Launch, just east of the DeKalb Street Pier, is the site of a viewpoint proposed in the *Port Orchard Urban Waterfront Walkway* study. The Port Orchard Waterfront Park, managed by the Port of Bremerton, has restroom and shower facilities, picnic tables and a picnic shelter. A third site is the Annapolis Recreation Area. This site currently consists of a large parking area and a Horluck Ferry dock. Improvements to this site, including an interpretive sign, planting and seating would provide a scenic rest area for Mosquito Fleet trail users.
Project 9: Port Orchard to Manchester

Map showing the Enetai and Waterman docks. From *Atlas of Kitsap County*, 1926.
From Port Orchard to Manchester, the route winds along the shoreline and through forested and rural neighborhoods. Beach Drive has long been a favorite route for bicyclists and pedestrians for its scenic views and is identified as a priority project for the development of trail facilities in both the *Kitsap County Bicycle Facilities Plan* and *The Kitsap County Open Space Plan*.

**Primary Route** The primary corridor follows scenic Beach Drive to Main Street in Manchester and continues out of Manchester on Colchester Drive. The county is currently working on a survey of Beach Drive to determine the exact width of road right-of-way available for the development of a trail. Preliminary studies for this plan indicate that a separated path cross section is possible from the Annapolis Recreation Area to Hillcrest Drive. From Hillcrest to Lighthouse Drive, bicycle lanes are recommended. Continuing to Watauga Beach Drive, paved shoulders are recommended due to the narrowness of the available right-of-way. On the rest of Beach Drive and through Manchester via Main Street and Colchester Drive, bicycle lanes are proposed.

**Connections** On-road connections are suggested to Wynn Jones County Park via Wynn Jones Road, to Manchester State Park, via Watauga Beach Drive and Hilldale Road, and to the Manchester Dock via Main Street. The Watauga Beach Drive connection requires entering the park from the north. This is not an existing park entrance. Coordination with Washington State Parks and Recreation to add this second entrance to the park would allow for a loop opportunity from Beach Drive through the park.

**Cultural Resources** Cultural resources along this stretch of the corridor include Mosquito Fleet dock sites at Waterman and Manchester, and Fortress Mitchell, now Manchester State Park. Three structures at Manchester State Park are on the National Historic Register, a torpedo warehouse, a mining casemate and Battery Robert Mitchell.

**Public Facilities** There are a number of recreation facilities along Beach Drive, including the Waterman Dock, Wynn-Jones County Park, Manchester State Park, Kitsap County South Little League Ballfields, and Pomeroy County Park. Facilities in Manchester include the Manchester Library and Manchester Dock.

**Viewpoints** The first official Mosquito Fleet rest area was recently constructed along Beach Drive at its intersection with Rich Cove Lane. The site includes a picnic shelter, trash receptacle and planting within the road right-of-way. In addition,
the Mosquito Fleet dock sites of Waterman and Manchester could serve as viewpoints. At Waterman there is a public pier for fishing and a gravel beach. Facilities at Manchester include a boat launch and boat moorage.
Project 10: Manchester to Southworth

Map of the South Colby Area. From Atlas of Kitsap County, 1926.
This southern most segment of the Mosquito Fleet trail corridor follows scenic shoreline roads and connects to the Harper Dock, once a heavily trafficked facility for connections to Seattle via Mosquito Fleet steamers. These days commuters and travelers pass in and out of south Kitsap through the Southworth ferry terminal, a major access point to this trail corridor.

**Primary Route**  The primary route follows Colchester Drive out of Manchester, connects with and continues along Southworth Drive to the Southworth Ferry Terminal. A separated path cross section is proposed from Hemlock Street in Manchester to the Harper Dock, with the exception of the bridge across Curley Creek. Kitsap County is planning to replace this bridge with a new concrete bridge that will include bicycle lanes and sidewalks. From the Harper Dock to Stohlton Road, paved shoulders are recommended due to the narrowness of the road right-of-way along this stretch. From Stohlton Road to the ferry terminal, bicycle lanes are recommended.

**Secondary Route**  Two secondary routes are proposed. The first, Yukon Harbor Drive, is a short diversion from the primary corridor that brings trail users closer to the waterfront and connects to the Colby Mosquito Fleet dock site. The other begins near the Southworth Ferry Terminal and follows Olympiad Drive and Cherry Street, both scenic, rural roadways popular with bicycle tourists. Paved shoulders are recommended for both routes.

**Connections**  Proposed connections link the primary and secondary trail corridors to Mosquito Fleet dock sites, public facilities and to south Kitsap shoreline communities. The Southworth ferry provides services to Vashon Island and Fauntleroy. Directional signs should be located in the terminal area to guide ferry riders to the trail.

Other public facilities to connect to include the South Colby Elementary School, accessed via Banner Road and the Park & Ride at the Harper Free Evangelical Church, accessed via Wilson Creek and Sedgwick Roads. Banner Road is a bicycle route proposed in the *Kitsap County Bicycle Facilities Plan*. Continuing past the elementary school, Banner Road also provides a connection to the community of Olalla and the Olalla Boat Launch, a Mosquito Fleet dock site on scenic Colvos Passage.

Short connections are also recommended to proposed viewpoints at Colby and South Colby from Yukon Harbor Drive and Southworth Drive respectively.
**Cultural Resources**  Cultural resources include Mosquito Fleet dock sites at Colby, South Colby and Harper.

**Public Facilities**  Recreation facilities between Manchester and Southworth include the Harper Dock, Harper County Park, and a small undeveloped park along Colchester Drive. Other public facilities in the vicinity of the corridor include South Colby Elementary School, the Washington State Ferry Terminal at Southworth, and a Park & Ride at Sedgwick/Wilson Rds.

**Viewpoints/Rest Areas**  Viewpoints are suggested at Colby, South Colby and Harper, all Mosquito Fleet dock sites. Harper has existing facilities, including restrooms, a public fishing pier and public beach. Colby and South Colby are in undeveloped public right-of-way. In addition, a small park property along Colchester Drive can serve as a fourth rest area.
Priorities

On the following pages the Mosquito Fleet Trail corridor has been divided into a list of project size segments. These segments are listed in prioritized order from 1 through 39. For each segment, information has been provided on the following:

- Project location
- Project length
- District (North, Central, or South)
- Public agency managing the project right-of-way (Kitsap County Public Works, Washington State Department of Transportation, City of Bremerton, City of Port Orchard, or City of Poulsbo)
- Proposed cross section (Separated Path, Bicycle Lanes, Paved Shoulders, Shared Roadway or Shared Sidewalk)
- Project status (proposed or in development)
- Project overlap with other planning documents (County or municipal planning documents, including transportation plans)
- Estimated cost for the project

As each segment of this trail corridor is also part of the Kitsap County Bicycle Facilities Plan (December 2000), this master plan uses the same priority order used in that plan. Note that the entire Mosquito Fleet Trail project is in the High Priority category of the Bicycle Facilities Plan and then ranked among the high priority projects. For a detailed explanation of how priorities were determined, refer to the Bicycle Facilities Plan.
<table>
<thead>
<tr>
<th>#</th>
<th>Street/R.O.W.</th>
<th>From</th>
<th>To</th>
<th>Length</th>
<th>District</th>
<th>R.O.W. Management</th>
<th>Facility Type</th>
<th>Proposed Cross Section</th>
<th>Project Status</th>
<th>Overlap with Other County &amp; Municipal Plans</th>
<th>Cost*</th>
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<td>Kitsap St.</td>
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<tr>
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<td>Kitsap St.</td>
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<td></td>
<td>Mitchell Point</td>
<td>Port Orchard City Limits</td>
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</tr>
<tr>
<td>2</td>
<td>Beach Dr.</td>
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<td>E. Ahlstrom Rd.</td>
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<td>KCPW</td>
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<td>Proposed</td>
<td>KC Greenways Plan, KC Bicycle Facilities Plan, KC 1995 to 2000 6 yr. T.I.P., KC 2012 T.I.P. (from Retsil Rd. to Ahlstrom)</td>
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<td>E. Ahlstrom Rd.</td>
<td>E. Hillcrest Dr.</td>
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<tr>
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<td>3</td>
<td>Old Belfair Valley Rd./Sam Christopherson Ave. W/ W. Frontage Rd.</td>
<td>SR 3</td>
<td>SR 16</td>
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<td>KC Greenways Plan, KC Bicycle Facilities Plan</td>
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</table>

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<thead>
<tr>
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<th>R.O.W. Management</th>
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<th>Proposed Cross Section</th>
<th>Project Status</th>
<th>Overlap with Other County &amp; Municipal Plans</th>
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<td>Primary</td>
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<td>C</td>
<td>City of Bremerton</td>
<td>Primary</td>
<td>Bicycle Lanes</td>
<td>Proposed</td>
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<td>Proposed</td>
<td>KC Greenways Plan, City of Bremerton Comprehensive Transportation Plan Bicycle and Pedestrian Facilities, KC Bicycle Facilities Plan</td>
<td>44</td>
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</table>

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<th>Proposed Cross Section</th>
<th>Project Status</th>
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<td>Primary</td>
<td>Bicycle Lanes (1)</td>
<td>Proposed</td>
<td>WSDOT has prepared construction drawings for a new bridge. KC Greenways Plan, City of Bremerton 1995 Comprehensive Transportation Plan Bicycle and Pedestrian Facilities. WSDOT is planning the construction of a new bridge.</td>
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<td>Paulson Rd. NE</td>
<td>0.2</td>
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<td></td>
<td>Separated Path</td>
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<tr>
<td>14</td>
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<td>Illahee Rd.</td>
<td>Brownsville Hwy.</td>
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<td>KCPW</td>
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<td>Proposed</td>
<td>KC Greenways Plan, KC Bicycle Facilities Plan</td>
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</tbody>
</table>

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(1) WSDOT is planning the construction of a new bridge to include bicycle lanes. In the interim cyclists are advised to walk their bicycles on the sidewalk due to the narrowness of the existing travel lanes and to high traffic speeds.
<table>
<thead>
<tr>
<th>#</th>
<th>Street/R.O.W.</th>
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<td>N</td>
<td>City of Poulsbo</td>
<td>Primary</td>
<td>Bicycle Lanes</td>
<td>Proposed</td>
<td>City of Poulsbo is planning improvements to Front St., KC Greenways Plan</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Just north of King Olav Vie</td>
<td>0.3</td>
<td></td>
<td></td>
<td></td>
<td>Shared Roadway</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
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<td></td>
<td></td>
<td>Sunset St.</td>
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<td>Bicycle Lanes</td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Lindvig Way/Front St. intersection</td>
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<td>Separated Path</td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Viking Way</td>
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<td></td>
<td>Shared Sidewalk</td>
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<tr>
<td>16</td>
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<td>NE Johnson Way</td>
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<td>Construction of Paved Shoulder Pathway slated for summer 2000</td>
<td>KC Greenways Plan, KC Bicycle Facilities Plan, City of Poulsbo is planning a paved shoulder pathway to be constructed summer 2000</td>
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<tr>
<td>17</td>
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<td>NE Tukwila Rd.</td>
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<td>Bicycle Lanes</td>
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</table>

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(2) The City of Poulsbo is planning the construction of a paved shoulder pathway (4’ to 8’ wide) on the water side of the road for 2-way pedestrian travel. Cyclists are expected to shared the roadway with traffic. This development is not consistent with the design guidelines of this plan and is not advised.
<table>
<thead>
<tr>
<th>#</th>
<th>Street/R.O.W.</th>
<th>From</th>
<th>To</th>
<th>Length</th>
<th>District</th>
<th>R.O.W. Management</th>
<th>Facility Type</th>
<th>Proposed Cross Section</th>
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<tr>
<td>18</td>
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<td></td>
<td>6th St. Ferry Terminal</td>
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</tr>
<tr>
<td>19</td>
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<td>Primary</td>
<td>One-Way Bicycle Lanes (heading west on 4th St., heading east on 5th St.)</td>
<td>Proposed</td>
<td>KC Greenways Plan</td>
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<td>Bremerton Ferry Terminal</td>
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<td>Ne KCPW</td>
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<td>Separated Path</td>
<td>Proposed</td>
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<td>NE Madison Rd.</td>
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<td></td>
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<td>from SR 308</td>
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<td></td>
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<td>Separated Path</td>
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<td>Paulson Rd. NE</td>
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<td>24</td>
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<td>Burwell St.</td>
<td>SR 3 1.6</td>
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<td>City of Bremerton, KCPW, WSDOT</td>
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<tr>
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<td>KCPW</td>
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<th>Estimated Cost*</th>
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<tr>
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<tr>
<td>28</td>
<td>Miller Bay Rd./Augusta Ave./Suquamish Cut-off Road</td>
<td>SR 305</td>
<td>Cowling Creek</td>
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<td>N</td>
<td>KCPW</td>
<td>Primary, Secondary</td>
<td>Bicycle Lanes</td>
<td>Proposed</td>
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<td>Indianola Rd. NE</td>
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<td>S. Kingston Rd. NE</td>
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<td>Proposed</td>
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</table>

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<th>Overlap with Other County &amp; Municipal Plans</th>
<th>Estimated Cost</th>
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<td>S. Kingston Rd. NE</td>
<td>West Kingston Rd.</td>
<td>End of Bridge</td>
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<td>N</td>
<td>KCPW</td>
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<td></td>
<td>End of Bridge NE Arness Rd.</td>
<td>NE Arness Rd.</td>
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<td></td>
<td>Separated Path</td>
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<tr>
<td></td>
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<td>NE Arness Rd.</td>
<td>Indianola Rd. NE</td>
<td>2.1</td>
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<td>Bicycle Lanes</td>
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<td></td>
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<td>National Ave.</td>
<td>Werner Rd. /Union Ave. intersection</td>
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<td>Bicycle Lanes</td>
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<td>Werner Rd. /Union Ave. intersection</td>
<td>SR 3</td>
<td>2.4</td>
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<td>Paved Shoulders</td>
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<td>35</td>
<td>6th Ave./ Hostmark St./ 3rd Ave./ Moe St./ Jensen Way/ Sunset St.</td>
<td>Fjord Dr.</td>
<td>Hostmark St./6th Ave. intersection</td>
<td>0.4</td>
<td>N</td>
<td>City of Poulsbo</td>
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<td>Bicycle Lanes</td>
<td>Proposed</td>
<td>KC Greenways Plan</td>
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<td>Hostmark St./6th Ave. intersection</td>
<td>3rd Ave./ Hostmark St. intersection</td>
<td>0.1</td>
<td></td>
<td></td>
<td></td>
<td>Paved Shoulders</td>
<td></td>
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<tr>
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<td></td>
<td>3rd Ave./ Hostmark St. intersection</td>
<td>Front St.</td>
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<td>Bicycle Lanes</td>
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<tr>
<td>36</td>
<td>SE Olympiad Dr./Cherry St.</td>
<td>Southworth Dr.</td>
<td>Southworth Dr.</td>
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<td>KCPW</td>
<td>Secondary</td>
<td>Paved Shoulders</td>
<td>Proposed</td>
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<td>37</td>
<td>Yukon Harbor Dr.</td>
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<td>Colchester Dr.</td>
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<td>S</td>
<td>KCPW</td>
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<tr>
<td>38</td>
<td>S. Keyport Rd. NE/Ogle Rd. NE</td>
<td>Brownsville Hwy.</td>
<td>Brownsville Hwy.</td>
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<td>Secondary</td>
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<td>Proposed</td>
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<td>183</td>
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<tr>
<td>39</td>
<td>NW Scandia Rd./Virginia Lp. Rd. NE</td>
<td>Viking Way</td>
<td>SR 308</td>
<td>1.9</td>
<td>N</td>
<td>KCPW</td>
<td>Secondary</td>
<td>Paved Shoulders</td>
<td>Proposed</td>
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<td>290</td>
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Estimated Costs:  

- 38: 183  
- 39: 290

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Implementation

The Mosquito Fleet Trail Master Plan envisions 78 miles of trail and 30 rest areas and viewpoints between Kingston and Southworth. Inter-agency cooperation, public and private partnerships, and creative thinking are necessary to bring this vision to reality. Following is a suggested timeline for implementation of the Master Plan, and suggested means and resources for trail development and protection, including recommended partnerships, funding sources, tax incentives, and public awareness measures.

**Timeline** Development of the trail corridor is best accomplished within a multi-dimensional timeline. After adoption of this master plan, it is recommended that the following goals be addressed within a short time frame. Some of these tasks can be completed within the first project year while others will be ongoing for a number of years to come:

- Establish a trail protection policy.
- Form trail partnerships, including a Trail Friends Group or Trail Foundation.
- Secure funding. Apply for grants for trail development and for trail amenities.
- Design trail at the project specific level and begin construction of segments of the trail as funds become available.
- Increase public awareness of the trail, hold a trail logo contest.
- Develop an interpretive program and begin to install interpretive signs at viewpoints and rest areas.
- Add additional facilities and amenities at viewpoints and rest areas.
- As segments of the trail corridor are completed, mark milestones with dedication ceremonies and organized trail walks & rides.

**Trail Protection** Establishing a trail protection policy is advised as a way to insure that the trail corridor will be protected from future developments that might encroach into the trail corridor or disrupt trail use. Because the Mosquito Fleet Trail is proposed within road-right-of-way for most of its length, the threat exists that at some point in the future, there will be interest to widen various roadways along the corridor, thereby eliminating separated paths and bicycle lanes. A trail protection policy should include a list of compatible trail uses and incompatible trail uses and should be adopted by the County as part of this master plan.

**Partnerships** Public and private partnerships can be effective means for trail development and maintenance. The following partnerships are recommended for this project:

*Mosquito Fleet Trail Friends Group/Trail Foundation* The public process portion of this master plan revealed that numerous citizens are interested in volunteering their time and labor towards the development of this trail. A list of these citizens is included in the Public Process Documentation in the Appendix of this plan. Increased public awareness will likely uncover even more advocates and potential volunteers. A Friends Group or Trail Foundation can serve many purposes, including raising funds for trail development and amenities, organizing trail walks/rides, and developing an interpretive program. Volunteer efforts that could be overseen by this organization include an adopt-a-trail program for trail maintenance and trail work parties for the construction of facilities at viewpoints and rest areas.

*Inter-Agency Partnerships* The Mosquito Fleet trail corridor is within right-of-way managed by county, state and municipal agencies. It is identified as a priority project by both Kitsap County Public Works and Kitsap County Parks and Recreation. In order to complete this trail it will be necessary for there to be interagency cooperation and agreement on trail design standards and on a trail protection policy.
Private Partnerships  Private property owners along the trail corridor could provide support for the trail corridor in a number of ways. Planned unit developments, such as the proposed golf course residential development in Indianola, are opportunities to develop off-road trails. As development occurs along undeveloped portions of the trail corridor, it may be possible to work with developers to develop trail connections that link into the system. Adjacent property owners and businesses could adopt planting strips to design and maintain along separated pathways.

Funding Sources  Funding sources for recreational trails, non-motorized transportation and scenic and heritage corridors should all be targeted as potential sources for Mosquito Fleet trail funding. The following organizations provide funding for trails:

The Interagency Committee for Outdoor Recreation provides funding for recreation and habitat conservation through various grant programs. Potential grants that could be applied for include the Washington Wildlife Recreation Program (WWRP), which has an Outdoor Recreation Account for local parks, state parks, trails and water access; the National Recreational Trails Program (NRTP) provides funding for a variety of off-road trail related projects, including the maintenance and restoration of existing trails and trail facilities, and the development of trail facilities and trail linkages; and the Federal Land and Water Conservation Fund (LWCF), which provides funding for the creation of outdoor recreation facilities for state and local governments.

TEA-21 or the Transportation Equity Act for the Twenty-First Century was passed on June 9, 1998. It is the extension and continuation of the Intermodal Surface Transportation Efficiency Act of 1991. It provides funding for highway, highway safety, transit and surface transportation programs, including the National Scenic Byways Program through the year 2003.

The National Scenic Byways Program offers funding for the development of facilities and trails along federal or state designated scenic byways. State Routes 3, 305 and 104 in Kitsap County have been designated by the Washington State Department of Transportation as Scenic and Recreation Highways and therefore qualify for funds from this program.

The Heritage Corridors Program is administered by the Washington State Department of Transportation (WSDOT) to preserve scenic corridors and fund the construction of safety rest areas and viewpoints, signs, markers and interpretation programs. In Defining Washington’s Heritage Corridors Program (1995), WSDOT listed as one of its recommendations, the desire to “Expand the designation process to provide opportunities for eligible publicly owned routes, including non-motorized, to receive official state recognition as Scenic Byways or Local and Regional Byways.” (p. v) Thus opening up the potential for the entire Mosquito Fleet Trail corridor to become a Scenic Byway.

Tax incentives  Tax benefits exist for private property owners who wish to donate full or partial ownership (conservation or trail easements) of their property for trail, viewpoint or rest area uses. A number of offers resulted from the questionnaire sent out as part of the mailing to residents and businesses along the trail corridor. Increasing public awareness on trail plans and difficult gap areas, may lead to more offers of trail easements and rest areas.

Public Awareness  To increase funding opportunities and trail visibility, it is important to garner public support for the trail. Increasing public awareness, through
education and outreach, is an important means for obtaining public support. Keeping a permanent web page on the County’s website that is updated regularly to mark progress on trail development is another way to continue public interest. At key milestones in the trail’s development, for example when a segment of trail is completed, events such as dedication ceremonies and organized trail walks/rides introduce Kitsap citizens to the trail and can rally support for completing remaining gaps in the trail corridor.

Involving citizens in the development of trail amenities can be another way to increase public awareness. Possible programs include a contest for a trail logo design open to middle and high school students. Citizens could also be involved in the development of interpretive signs, brochures and other programs.
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Kitsap County


Mosquito Fleet


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