# APPENDIX C Transportation

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## I. Requirements of the Transportation Element

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- Specific requirements for the transportation element are found at RCW 36.70A.070(6)(a). The transportation element of the *King County Comprehensive Plan* meets those requirements as follows:
- **Land Use Assumptions.** The transportation element is based on the same population and employment growth targets provided in Chapter 2 (Urban Communities) of the *King County Comprehensive Plan*.
- Estimated Traffic Impacts to State-Owned Facilities. The travel forecast in Technical Appendix C uses the Puget Sound Regional Council Travel Model, which incorporates state-owned facilities.
  - An Inventory of Transportation Facilities and Services. The inventory is provided in Appendix C of the King County Comprehensive Plan. As required by growth management legislation, it includes air, water, and ground transportation facilities and services as well as transit alignments and general aviation airport facilities. It includes both county-owned and state-owned transportation facilities within the county's boundaries.
  - Level of Service Standards including Standards for State Routes. King County has adopted urban
    and rural area level of service standards for its Transportation Concurrency Management Program. The
    Puget Sound Regional Council uses regional level of service standards to evaluate facilities, including
    state routes. Level of service standards for regionally significant state highways are described in Chapter
    8 of the King County Comprehensive Plan and mapped in this appendix.
- Actions to Bring Facilities into Compliance. King County's Transportation Needs Report is adopted by reference with the *King County Comprehensive Plan*. In addition, the Roads Capital Improvement Program, guided by the *Strategic Plan for Road Services*, identifies specific projects, strategies, and actions to address transportation needs.
- Traffic Forecasts for at Least Ten Years. King County's Transportation Needs Report is prepared using the Puget Sound Regional Council's Travel Model, which has a 2050 horizon year.
  - State and Local Transportation Needs to Meet Current and Future Demands. The County's Transportation Needs Report identifies local system needs, the Strategic Plan for Road Services establishes the priorities, and the Capital Improvement Program provides the funds for projects. State and local transportation needs are included in the Puget Sound Regional Council travel demand forecasts provided in the King County Comprehensive Plan Technical Appendix C. These elements address the Growth Management Act requirement of identifying state and local system needs to meet current and future demand.
- Analysis of Funding Capability. A financial analysis is included in the Transportation Needs Report,
   which is adopted as an element of the King County Comprehensive Plan. More information on the
   financial analysis and supporting policies is provided in Chapter 8 of the King County Comprehensive
   Plan.
- Intergovernmental Coordination. King County contacted adjacent cities, counties, and transit agencies as part of its update to the Transportation Needs Report. Additionally, the Puget Sound Regional Council's Travel Model informs preparation of the Transportation Needs Report, and the relevant capacity project needs identified in the report are also included as part of the Puget Sound Regional Council's adopted Regional Transportation Plan 2022-2050, a key input in the agency's regional travel demand analysis.
- Transportation Demand Management. King County includes transportation demand management (TDM) strategies in its policies, codes, and project implementation, as well as providing support for others through its transit, rideshare, and market strategies. Chapter 8 of the King County Comprehensive Plan and the Transportation Inventory of this appendix contain more information on King County TDM-related efforts.
  - Active Transportation. King County's Transportation Needs Report and Regional Trails Needs Report identify candidate improvements for active transportation facilities in support of enhanced community

access, multimodal transportation, recreation, and healthy lifestyles. Chapter 8 of the *King County Comprehensive Plan* provides additional detail regarding this topic.

- Concurrency. The Concurrency program is described in Chapter 8 of the King County Comprehensive
   Plan.
  - Consistency of Plans. The King County Comprehensive Plan is consistent with the Puget Sound Regional Council's Regional Transportation Plan 2022-2050, the regional transportation plan for the four-county region. The Regional Transportation Plan is consistent with the region's urban growth strategy, VISION 2050, which is also developed by the Puget Sound Regional Council. The Puget Sound Regional Council reviews the King County Comprehensive Plan for consistency and has certified its previous versions and amendments. The King County Comprehensive Plan provides policy direction for the development of the County's related functional plans.

## II. King County Arterial Functional Classification

Arterial functional classification is the designation of highways, roads, and streets into groups according to the function each road serves or is intended to provide. A foundational principle to this grouping process is that individual roads do not serve travel independently; instead, most travel involves movement through a network of roads. Functional classification helps to define the part that any individual road will play in serving traffic through the road system. There are two primary functions of a road: to provide mobility for users, and to provide access to adjacent land uses. Functional street classification is an important tool for planning a transportation or roadway system, as well as in designing and constructing individual facilities. The classification system and King County Road Standards are used to distinguish between different types of roads for planning analyses, road design, and the allocation of public funds for transportation improvements.

In unincorporated King County, there are three types of arterial functional classifications:

- Principal Arterials Provide for movement across and between large subareas of an urban region and serve primarily through traffic with minimum direct access to neighboring land uses. Note that freeways and major highways under the jurisdiction of the Washington State Department of Transportation that fall within unincorporated King County also meet this definition, and are sometimes also referred to as Principal Arterials.
- **Minor Arterials** Provide for movement within the larger subareas bound by principal arterials. A minor arterial may also serve through traffic but provides more direct access to adjacent land uses than does a principal arterial.
- Collector Arterials Provide for movement within smaller areas which are often definable neighborhoods, and which may be bound by arterials with higher classifications. Collectors serve very little through traffic and serve a high proportion of local traffic requiring direct access to adjacent properties. Collector arterials provide the link between local neighborhood streets (i.e. non-arterials) and larger arterials.

The current adopted arterial classifications and one new reclassification are shown below in Figure 1, "2024 King County Arterial Functional Classification Change"; the proposed reclassification is described in Table 1.

#### Figure 1. 2024 King County Arterial Functional Classification Change

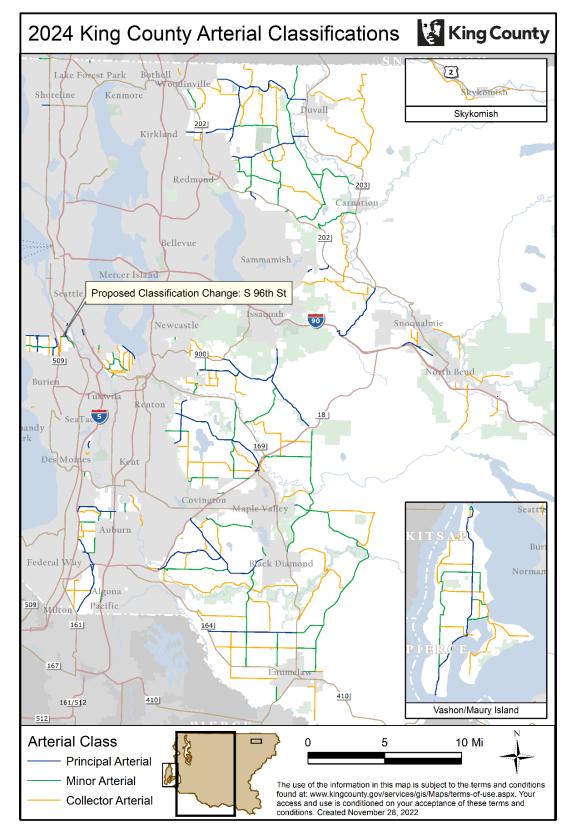


Table 1. 2024 King County Arterial Functional Classification Change

		King County Arterial Functional Classification	
Road	Limits	Existing	Proposed
S 96th Street	8th Avenue S to Des Moines Memorial Drive S	Collector	Minor

## III. Regionally Significant State Highways Level of Service Standards

Level of service standards for Regionally Significant State Highways are adopted by the Puget Sound Regional Council. Level of Service standards for Highways of Statewide Significance are set by the

135 Washington State Department of Transportation. These highway level of service standards are shown below

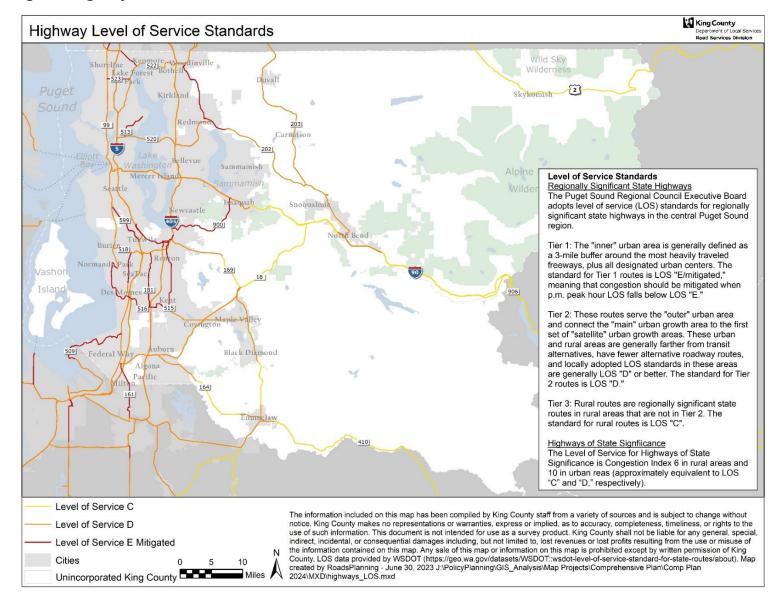
in Figure 2, "Highway Level of Service Standards."

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#### Figure 2. Highway Level of Service Standards



## IV. Transportation Inventory

#### A. Introduction

#### 141 1. Requirements

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- 142 The Growth Management Act (RCW 36.70A.070(6)(A)) requires an inventory of air, water, and land
- 143 transportation facilities and services, including transit alignments, and general aviation facilities, to define
- existing capital facilities and travel levels as a basis for future planning. The inventory must include state-
- owned transportation facilities within the unincorporated King County boundaries. This document fulfills this
- 146 requirement by describing King County's multimodal transportation system and by identifying available
- 147 resource materials.

#### 148 2. Process

- 149 The County's approach to the inventory construction is that of reference, rather than collection. This
- approach will enable planners to evaluate inventory information and determine what data will best meet
- 151 their studies' requirements. Even though the scope of the Comprehensive Plan Transportation Element is
- primarily focused on unincorporated King County, the scope of the Transportation Inventory is generally
- 153 countywide.

#### 154 3. Coordination

- 155 The regional coordination of land use and transportation is mandated by the Growth Management Act
- 156 (RCW 47.80.010). King County has taken an active role in assuring a regionally coordinated transportation
- 157 system. In cooperation with other central Puget Sound jurisdictions, King County is striving toward a
- 158 regional approach to important planning issues such as level of service, concurrency, locations of regional
- and countywide transportation facilities, financing, active transportation, and transportation demand
- 160 management.

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#### 161 4. Organization

- 162 The inventory is organized into three categories—(1) an inventory of air transportation facilities and services;
- 163 (2) an inventory of marine transportation facilities and services; and (3) an inventory of land transportation
- 164 facilities and services.

### B. Air Transportation System

- 166 The Growth Management Act requires an inventory of the air transportation system to define existing capital
- facilities and travel levels as a basis for future planning. The air transportation system plays an important role
- as part of the regional and national transportation network because it provides for quick and efficient
- intrastate, interstate, and international travel of passengers and cargo.
- King County public-use airports represent an essential element of the county's transportation system and provide critical support to the King County economy. Sixteen airports are located within King County. The
- 173 King County airports span a broad range in terms of scale and role, from the Port of Seattle, Seattle-Tacoma
- 174 International Airport to King County International Airport-Boeing Field, to seaplane facilities and small
- 175 privately owned airstrips. The King County airport inventory consists of public-use and privately owned
- airport facilities which are open to the public.
- 178 The Puget Sound Regional Council's 2011 Air Compatible Land Use Program Update Study included a wide
- 179 variety of activities related to planning and support for the central Puget Sound region's public-use airport
- 180 system. Program activities were included such as airport ground access planning, regional air cargo

planning, cooperative efforts with the Washington State Department of Transportation Aviation Division in planning for long-range airport capacity, and ongoing efforts to address airport-compatible land use under the Puget Sound Regional Council's Growth Management Act authority. The Washington State Department of Transportation released an update to the Washington Aviation System Plan in July 2017. The state Aviation System Plan is currently being updated with a projected completion date in 2024.

King County International Airport began an airport master plan update in 2023.

Additional information on King County International Airport, Port of Seattle, regional, and state planning and inventories are available online.<sup>3</sup>

## C. Marine Transportation System

The Growth Management Act requires an inventory of the marine transportation system to define existing capital facilities and travel levels as a basis for future planning. The marine transportation system plays an important role in the movement of people and goods within King County, supplying the main commuter link between Seattle's central business district and the west Puget Sound corridor and serving as the hub network for local, regional, and international freight movements.

The marine passenger transportation system serves the entire Puget Sound region from Tacoma to Sidney, British Columbia. The facilities that serve King County include ferry terminals and vessels servicing ferry routes. Ferry services are provided by Washington State Ferries, King County Marine Division, and Kitsap Transit. Other passenger-only ferry operators, such as Argosy and FRS Clipper, offer more recreational and travel-related services.

Passenger ferry services provide reliable transportation as regional waterways are not subjected to the typical congestion of the roadway network. As population increases and the demand for additional transportation options grows, more communities are evaluating passenger ferry services as part of the solution. Kitsap Transit has implemented three passenger ferry routes from Kitsap County to downtown Seattle since 2017. The cities of Tacoma and Des Moines are studying routes from the south Sound to downtown Seattle, including a pilot program to test interest in additional Puget Sound service. Studies are also underway to evaluate possible passenger ferry service on Lake Washington and Lake Union. Additional information on future passenger ferry services is available online.<sup>4</sup>

## 212 1. Washington State Ferries

Washington State Ferries, established in 1951, is the largest ferry system in the United States, and the second largest in the world. The system includes 20 terminals and 21 vehicle ferries, carrying over 24.5 million passenger and vehicle trips annually (before the COVID-19 pandemic). A vehicle reservation system (on select routes) spreads demand and reduces capital improvement costs associated with traffic control.

Washington State Ferries provides service to 20 communities in eight counties, including King County. The vital system functions as both a marine highway and as a transit service provider. Washington State Ferries provides frequent mainland access to several island communities, including Vashon-Maury Island in King County, Bainbridge Island in Kitsap County, Whidbey Island in Island County, and San Juan, Orcas, Lopez, and Shaw Islands in San Juan County. Washington State Ferries takes people to and from work in the downtown Seattle business corridor and to other communities on the east and west sides of Puget Sound.

<sup>&</sup>lt;sup>1</sup> See a list of all general and commercial airports in Washington State at <u>wsdot.wa.gov/travel/aviation/airports-list</u> (accessed September 5, 2023).

<sup>&</sup>lt;sup>2</sup> Washington State Department of Transportation, Washington Aviation System Plan, [LINK] (accessed September 5, 2023).

<sup>&</sup>lt;sup>3</sup> See additional air transportation information from King County at <u>kingcounty.gov/en/legacy/services/airport/planning</u> (accessed September 25, 2023), Seattle-Tacoma International Airport at <u>portseattle.org/page/airport-statistics</u> (accessed September 25, 2023), and PSRC at <u>psrc.org/our-work/air-transportation</u> (accessed September 25, 2023).

<sup>&</sup>lt;sup>4</sup> See additional ferry information from the City of Tacoma at <a href="http://cms.cityoftacoma.org/pds/fastferrystudyresults.pdf">http://cms.cityoftacoma.org/pds/fastferrystudyresults.pdf</a> (accessed September 25, 2023) and the City of Des Moines at

desmoineswa.gov/doing business/economic development/passenger ferry studies (accessed September 25, 2023).

Detailed information about the Washington State Ferry System and the 2040 Long-Range Plan are available online. Washington State Ferries routes are shown in Figure 3, "Washington State Ferries Route Map."

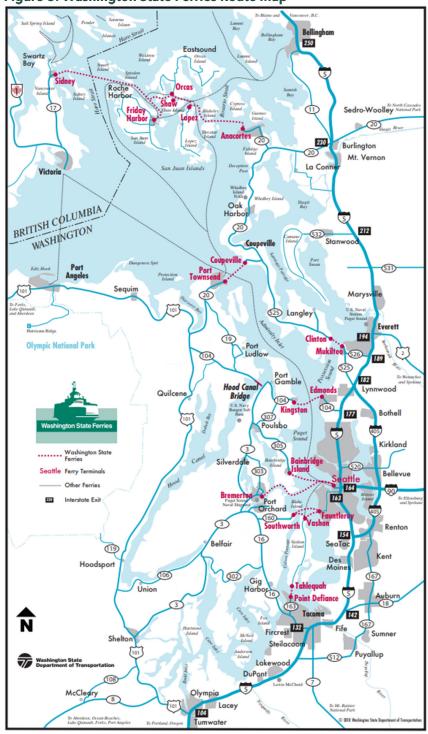
Figure 3: Washington State Ferries Route Map<sup>6</sup>

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<sup>&</sup>lt;sup>5</sup> See additional ferry information from the Washington State Department of Transportation at <u>wsdot.wa.gov/travel/washington-state-ferries</u> (accessed September 25, 2023) and <u>wsdot.wa.gov/travel/washington-state-ferries/about-us/washington-state-ferries-planning/washington-state-ferries-long-range-plan</u> (accessed September 25, 2023).

<sup>&</sup>lt;sup>6</sup> Washington State Ferries, Route Map, [LINK] (accessed October 24, 2022).

#### 2. King County Metro Transit Department Marine Division

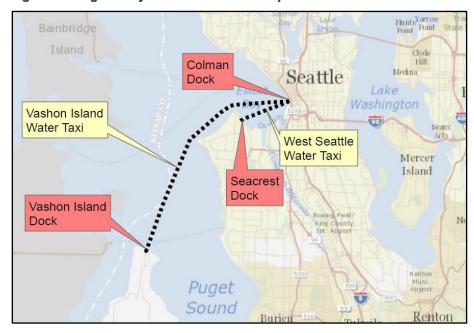
The King County Metro Transit Department Marine Division is responsible for the operations, moorage, and maintenance of the vessels that provide passenger-only ferry services in King County. Passenger-only ferry services are currently provided between downtown Seattle, Vashon-Maury Island, and West Seattle.

The Marine Division operates out of three terminals: Pier 50 in downtown Seattle is home to a King County-owned ferry terminal and is a part of the Colman Dock multimodal hub; the ferry dock on Vashon-Maury Island is leased from Washington State Ferries; and the West Seattle ferry dock, located at Seacrest Park, is leased from the Seattle Parks Department. The King County Marine Division owns a moorage and maintenance barge located at Pier 48 on the Seattle waterfront.

The Marine Division owns three vessels: the MV Sally Fox, the MV Doc Maynard, and the MV Spirit of Kingston. The MV Sally Fox and MV Doc Maynard were constructed for the Marine Division in 2014 - 2015 and are each certified for a capacity of 278 passengers. The MV Spirit of Kingston is a 150-passenger vessel and is used to back up the two in-service vessels. Each vessel operates with a crew of three.

In 2019, King County's Water Taxi provided service for over 700,000 passengers (pre-pandemic) systemwide. Water taxi ridership declined with the pandemic, as did ridership on other Metro services, but is recovering. As of September 2022, there were more than 334,000 boardings in 2022. Routes are shown in Figure 4, "King County Water Taxi Route Map."

#### Figure 4: King County Water Taxi Route Map



Additional information on King County ferry services is available online.<sup>7</sup>

#### 3. Kitsap Transit Fast Ferry

Kitsap Transit launched its passenger-only ferry service in 2017, following voter approval of a dedicated sales tax for passenger-only ferry service. Today, Kitsap Transit operates Kitsap Fast Ferries year-round connecting Seattle to Bremerton, Kingston, and Southworth on the Kitsap Peninsula. All three routes connect to Pier 50 in Seattle and coordinate landings and departures with the King County Marine Division.

<sup>&</sup>lt;sup>7</sup> See additional ferry information from King County at <u>kingcounty.gov/depts/transportation/water-taxi</u> (accessed September 25, 2023).

Kitsap Transit operates weekday service during peak commute hours and on Saturdays, typically from May through September. The service area of the Seattle-Bremerton ferry route is extended through two connecting two Local Foot Ferry routes; these routes connect Bremerton to Port Orchard and Annapolis and are heavily used by workers at the Puget Sound Naval Shipyard in Bremerton. Both Local Foot Ferries operate year-round; the Port Orchard Foot Ferry operates seven days a week, while the Annapolis Foot Ferry operates on weekdays only. Ferry routes serving King and Kitsap counties are shown in Figure 5, "Kitsap-King County Ferry Routes."

#### **Figure 5: Kitsap-King County Ferry Routes**

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Kitsap Transit Fast Ferry Routes shown in solid black. Washington State Ferry routes to Seattle and Kitsap Transit foot ferry routes from Bremerton to Port Orchard and Annapolis shown in dashed gray.<sup>8</sup>

Although King County's Pier 50 dock was designed to serve two vessels at a time, it currently serves five passenger-only ferry routes (three operated by Kitsap Transit and two operated by King County). To support current service levels and future growth, Kitsap Transit initiated the Seattle Fast Ferry Terminal Project to analyze alternatives in 2020. The project is working with various Seattle waterfront partners, including local, state, federal, and tribal governments. The goal of the project is to identify a suitable location for Kitsap Transit's existing fast-ferry routes that allows for potential future routes.

Kitsap Transit owns its Bremerton passenger-only ferry dock and leases its Kingston dock from the Port of Kingston. Vessels for those routes are moored at these docks when not in service. For the Southworth route, Kitsap Transit moors its primary vessel at its Bremerton dock and shares use of the Southworth dock with Washington State Ferries. Kitsap Transit and Washington State Ferries are jointly pursuing development of a second landing site at Southworth.

Additional information on Kitsap ferry services is available online.9

<sup>&</sup>lt;sup>8</sup> Kitsap Transit, Fast Ferry System Map [LINK] (accessed October 24, 2022).

<sup>&</sup>lt;sup>9</sup> See additional ferry information from Kitsap Transit at and <u>kitsaptransit.com/service/category/fast-ferry</u> (accessed September 25, 2023).

#### 284 4. Port of Seattle Marine Facilities and Services

The Port of Seattle plays a key role in the maritime sector in the Pacific Northwest. Through commercial fishing, cargo shipping, cruise tourism, recreational boating, maritime industrial development, and trade and tourism development, the Port of Seattle and local maritime industries make the region more globally competitive while directing investments toward economic development and environmental and community health. The Port operates or leases:

- Passenger cruise ship terminals: Smith Cove Terminal at Terminal 91 and Bell Street Terminal at Pier 66.
- FRS Clipper terminal: Victoria Clipper/Clipper Navigation fast ferry service at Pier 69.
- Fishing and commercial moorages, grain terminal: Fishermen's Terminal; Maritime Industrial Center;
  Terminal 91; Terminal 18 dolphins; Pier 34 dolphins; and the north end of Terminal 46 and Terminal 86
  Grain Terminal.
- Recreational boating marinas: Bell Harbor, Fisherman's Terminal, Harbor Island, Salmon Bay, and Shilshole Bay.
- Conference centers: Bell Harbor Conference Center, and World Trade Center.
  - Parks and monuments: tattatucid Park and Shoreline Habitat (formerly 8th Avenue Park/T18 Park), Bridge Gear Monument Park, Centennial Park, Duwamish River People's Park and Shoreline Habitat (formerly T117), Jack Block Park, Jack Perry Park, Seattle Fisherman's Memorial, tu?elaltxw Village Park and Shoreline Habitat (formerly T105 Park), he?apus Village Park and Shoreline Habitat (formerly T107 Park), and sbeqwa? Park and Shoreline Habitat (formerly T108/Diagonal Park).

Additional information on Port of Seattle maritime activities, facility plans, and service and activity levels are available online.<sup>10</sup>

#### 5. Northwest Seaport Alliance Marine Facilities and Services

In 2015, the ports of Seattle and Tacoma formed a marine cargo operating partnership, the Northwest Seaport Alliance. The Alliance is the fourth-largest container gateway in the United States. It is a major center for containerized cargo, bulk, breakbulk, project/heavy-lift cargoes, automobiles, and trucks. It connects to the second-largest concentration of distribution centers on the West Coast. The Alliance has five containerized cargo terminals in the North Harbor (Elliott Bay/Duwamish River in King County), including Terminal 5, Terminal 18, Terminal 30, Terminal 46, Terminal 115, and other industrial land and facilities.

314 Information regarding the Alliance's services and facilities can be found online.<sup>11</sup>

#### D. Land Transportation System

- This section includes a wide range of information and references for land transportation related facilities,
- 317 services, and transportation demand management programs in King County. This information provides a
- foundation for the Comprehensive Plan transportation element and for future transportation planning.

#### 319 1. Unincorporated King County Roads

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King County maintains a detailed inventory of assets that comprise the county's unincorporated roadway system. Physical features include information on pavement type, roadway and shoulder width, number of lanes, medians, retaining and sea walls, guardrails, sidewalks, and walkways. Administrative features include

<sup>&</sup>lt;sup>10</sup> See additional Port of Seattle maritime inventory and activities information at <u>portseattle.org/maritime/maritime-home</u> (accessed September 25, 2023), with detailed information on fishing and commercial moorage at <u>portseattle.org/maritime/fishing-commercial-moorage</u> (accessed September 25, 2023), conference centers at <u>portseattle.org/places/conference-centers</u> (accessed September 25, 2023), and waterfront parks at <u>portseattle.org/community/waterfront-parks</u> (accessed September 25, 2023).

<sup>&</sup>lt;sup>11</sup> See additional Northwest Seaport Alliance Marine facilities and services information at <u>nwseaportalliance.com</u> (accessed September 25, 2023).

- information such as the roadway's functional classification, its comprehensive plan designation, and location
- 324 in the urban area, rural area, or natural resource lands. The unincorporated road system owned and
- 325 managed by the Department of Local Services Road Services Division includes the following asset inventory
- 326 (numbers are approximate):12
- 1,467 miles of roadway
- 185 bridges, including several jointly owned with cities
- 329 275 miles of sidewalk
- 723 marked crosswalks
- 49,000 traffic control signs
- 79 traffic signals
- 333 58 traffic cameras
- 118 miles of protective quardrail
- 4.6 million feet of drainage ditch
- 336 3.5 million feet of drainage pipe
- 338 Pavement

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- Pavement deteriorates naturally over time. As it ages, the pavement and underlying road base become increasingly susceptible to the impacts of stormwater, weather and temperature changes, and growing traffic volumes. The Road Services Division monitors the condition of unincorporated King County roads by assessing and tracking pavement condition over time. The Road Services Division conducts regular field assessments of all roadways to visually determine the condition of the pavement using the County Road Administration Board visual data collection system. Arterial roads are inspected every two years and local roads are inspected every three years. Current road resurfacing project information is available online.<sup>13</sup>
- 347 Bridges
- The Road Services Division owns and maintains 185 bridges in the unincorporated area of King County.
- Built over many generations, these bridges are made of concrete, steel, timber, or a combination of the
- three building materials. King County's bridge inventory includes long span bridges (those over 20 feet in
- 351 span length, which appear on the national bridge inventory), short span bridges, pedestrian bridges, and
- 352 safety enhancement bridges that keep wildlife off roadways. King County's bridge inventory includes:
- 181 vehicular bridges
- 354
   3 pedestrian bridges
- 1 safety corridor bridge

An updated list of bridge needs is included in the Annual Bridge Report, which is prepared each year by the Road Services Division to fulfill the requirements of Washington Administrative Code (WAC) 136-20-060.

359 The Road Services Division is required to review and update its list of bridge needs for

360 replacement/rehabilitation, seismic retrofit, and re-decking annually, preparatory to the Capital

361 Improvement Program budgeting process. The King County Annual Bridge Report is available online. 14

<sup>&</sup>lt;sup>12</sup> Based on best available data from fall 2022 inventory data. Data represents a point in time and can change slightly throughout the year.

<sup>&</sup>lt;sup>13</sup> See additional road resurfacing information at <u>kingcounty.gov/depts/transportation/roads/paving-projects</u> (accessed September 25, 2023).

<sup>&</sup>lt;sup>14</sup> See Annual Bridge Reports at kingcounty.gov/depts/transportation/roads/bridges (accessed September 25, 2023).

#### Roadside Barriers (Guardrails)

- 364 One way King County promotes safety on county-maintained unincorporated roads is by installing new 365 quardrails, repairing existing barriers and rails, and upgrading older guardrails to meet current roadway
- standards. The unincorporated road network includes approximately 118 miles of guardrail. 366

#### 367 Traffic Control Devices

368 Traffic control devices are signals and information systems used to regulate, warn, or guide both vehicular 369 and pedestrian traffic. These devices are placed on, over, or adjacent to a roadway, pedestrian path, or 370 shared-use path. Examples of traffic control devices include traffic signals, signs, and pavement markings. 371

Information on traffic control devices can be found online. 15

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#### **Traffic Counts**

Unincorporated area traffic counts can be found online.<sup>16</sup>

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#### 376 Safety

The Road Services Division produces an annual traffic safety report. This report reviews collision trends within unincorporated King County in an ongoing effort to reduce the number and severity of collisions. The report is intended to provide critical information that can be used to better allocate limited safety funds, increase driver awareness of safety concerns, and improve the safety of the traveling public. King County Traffic Safety Reports and Washington State Department of Transportation statewide travel and collision data are available online.17

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#### Maintenance Facilities

The Road Services Division is responsible for enhancing and maintaining nearly 1,500 miles of paved roadway. More information on maintenance services and activities, including a map of maintenance divisions and shop locations, is available online.<sup>18</sup>

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#### King County Heritage Corridors

In an effort to preserve the county's transportation history, King County has identified nine "Heritage Corridors" in unincorporated King County. These corridors represent King County's history through its most formative decades of development, from the 1870s through the 1930s. They touch on industrial, commercial, agricultural, and maritime themes. Identification of these Heritage Corridors helps the county maintain and operate its historic and scenic roads in keeping with their unique character.

The Heritage Corridors program includes public education materials that enhance the public's travel experience and lead to a greater understanding and appreciation of the region's transportation history. The county also encourages adjacent private property owners to support the preservation of the corridors.

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The identified Heritage Corridors are:

- 401 Cedarhurst Road / Westside Highway, Vashon-Maury Island
- 402 Dockton Road, Vashon-Maury Island

 $<sup>^{15}</sup>$  See additional county traffic control device information at  $\underline{\text{kingcounty.gov/depts/transportation/roads/traffic}}$  (accessed September 25, 2023).

<sup>16</sup> See additional county traffic count information at gismaps.kingcounty.gov/TrafficCounts (accessed September 25, 2023).

<sup>&</sup>lt;sup>17</sup> See additional collision information for the county at kingcounty.gov/en/dept/local-services/transit-transportationroads/roads-and-bridges/road-services/traffic/traffic/safety-reports (accessed September 25, 2023) and for the state at wsdot.wa.gov/about/transportation-data (accessed September 25, 2023).

<sup>18</sup> See additional maintenance services and facility information at kingcounty.gov/depts/transportation/roads/road-maintenance (accessed September 25, 2023).

- 403 Green Valley Road, Auburn-Black Diamond
- 404 Issaguah-Fall City Road, Snoqualmie Valley
- 405 Osceola Loop, Enumclaw Plateau
- West Snoqualmie River Road, Snoqualmie Valley
- West Snoqualmie Valley Road / Carnation Farm Road, Snoqualmie Valley
- Old Cascade Scenic Highway, Stevens Pass
- Old Sunset Highway, Snoqualmie Pass

- 411 Information about King County's Heritage Corridors, including maps and final report, are available online. 19
- 412 2. State and Federal Highways within King County
- 413 Major Highways
- The State Highways of Washington comprise a network of state highways, including all Interstate and U.S.
- 415 Highways that pass through the state, maintained by the Washington State Department of Transportation.
- 416 Four Federal Highways and twenty-three State Highway Routes are located in King County. All state
- 417 highways are designated by the Washington State Legislature. Maps of the State Highways can be viewed
- 418 online.<sup>20</sup>
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- 420 Highways of Statewide Significance
- 421 Highways of Statewide Significance include interstate highways and other state principal arterials that are
- 422 needed to connect major communities in the state. The designation helps assist with the allocation and
- 423 direction of funding. A map of Highways of Statewide Significance is shown in Figure 6.

<sup>&</sup>lt;sup>19</sup> See additional King County Heritage Corridor information at <u>kingcounty.gov/depts/transportation/roads/historic-corridors</u> (accessed September 25, 2023).

<sup>&</sup>lt;sup>20</sup> See maps of the state highways at <u>wsdot.wa.gov/travel/printable-maps</u> (accessed September 25, 2023).

#### Figure 6: Highways of Statewide and Regional Significance.



#### Washington State Scenic and Recreational Highways

Washington's Scenic and Recreational Highways, as designated in RCW 47.39, are important access routes to some of the most scenic resources and best recreational destinations in the state. In King County there are approximately 100 miles of designated Scenic and Recreational Highways and 30 miles of designated Scenic and Recreational Ferry routes. King County Scenic and Recreational Highways include portions of I-90 (Mountains to Sound Greenway), US 2 (Stevens Pass Greenway), SR 410 (Chinook Pass Scenic Byway), and SR 202 (Cascade Valleys Scenic Byway). A map of Washington Scenic and Recreational Highways is available online.<sup>21</sup>

#### High Occupancy Vehicle System

The High Occupancy Vehicle (HOV) system is an important element of King County's and the region's multimodal transportation system. HOV lanes—also known as carpool lanes, commuter lanes, diamond lanes, or bus lanes—are reserved for vehicles containing at least a specified number of occupants (such as two or more) or for transit vehicles. Such lanes can be on highways, arterials, or metered entrance ramps to highways. They may be physically separated from other lanes or indicated with signage. Some operate only during certain hours. Other types of strategies that potentially promote higher vehicle occupancy include ridesharing programs, parking management, guaranteed ride home policies, and other employer-based programs.

Coupled with the county's Transportation Demand Management program, HOV facilities are designed to help accommodate growth by moving more people in fewer vehicles, reducing the need for new road construction or major widening projects on the county's existing arterial system. The HOV system includes direct access ramps to support Sound Transit's regional bus service, as well as freeway-to-freeway improvements to connect the system. The HOV system is a crucial part of the central Puget Sound area's highway system, carrying more than one-third of freeway travelers during rush hours. Information on the HOV system, including a system map, is available online.<sup>22</sup>

#### 3. Transit Services

Transit services in King County are provided by four public transit agencies and the City of Seattle. King County Metro Transit (Metro) provides most regular bus service, including RapidRide bus rapid transit, and flexible mobility options available to King County residents. Pierce Transit and Community Transit provide commuter bus services into King County urban centers including downtown Seattle, downtown Bellevue, the University District in Seattle, and Federal Way in south King County. Sound Transit provides regional high-capacity transportation throughout parts of King, Pierce, and Snohomish counties through commuter rail (Sounder), light rail (Link), and a regional express bus system (ST Express). Link light rail and ST Express bus service within King County are currently operated and maintained by Metro Transit under contract to Sound Transit. The Seattle Department of Transportation provides streetcar service in and near downtown Seattle. This streetcar service is also currently operated and maintained by Metro Transit under contract to the City of Seattle.

#### King County Metro Transit

As the largest public transportation agency in the Puget Sound region, Metro is creating a world-class, integrated public transportation network. Metro serves customers with a wide range of mobility services including providing and funding bus, paratransit, Vanpool, water taxi, and flexible services; and by operating the Seattle Streetcar, Sound Transit Link light rail, and Sound Transit Express bus services in King County. Metro operates more than 180 bus routes and has more than 7,400 bus stops (as of 2021). In 2022,

<sup>&</sup>lt;sup>21</sup> See map of Washington Scenic and Recreational Highways at <u>gisdata-wsdot.opendata.arcgis.com/datasets/WSDOT::wsdot-scenic-byways</u> (accessed September 25, 2023).

<sup>&</sup>lt;sup>22</sup> See additional HOV system information at <u>wsdot.wa.gov/travel/roads-bridges/hov-lanes</u> (accessed September 25, 2023).

Metro operated approximately 3.7 million annual service hours of fixed route and DART services (excluding Sound Transit services and flexible services).

In 2019, before the COVID-19 pandemic, Metro fixed-route services delivered more than 130 million passenger trips. Ridership declined during the pandemic, but is currently recovering. In 2021, Vanpool saw over 509,000 boardings, Access had more than 557,000 boardings, and fixed route (bus and DART) experienced more than 50 million boardings. As of November 2022, Metro is now serving five million riders per month as more people choose transit.

The Strategic Plan for Public Transportation, Metro Connects (Metro's long-range plan), and Service Guidelines were updated in 2021. The updated policies which include a much stronger emphasis on equity and climate change. Metro's goal is to help align its funding, policies, and investments to deliver livable communities, a thriving economy for all, and a sustainable environment. More information on Metro policies; routes, schedules, and maps; and system performance can be found online.<sup>23</sup>

#### **Metro Services**

Metro offers a wide range of mobility services including providing and funding bus, paratransit, Vanpool, water taxi, and flexible services; and by operating the Seattle Streetcar, Sound Transit Link light rail, and Sound Transit Express bus services in King County. Metro's fixed route bus services include RapidRide, frequent, express, and local service. More information about many of Metro's services is included below.

- RapidRide RapidRide, Metro's arterial bus rapid transit network, launched in 2010. As of 2022, Metro operates seven RapidRide lines throughout King County, with five more scheduled to begin service by 2030. RapidRide separates itself from standard bus service with high frequency (every 10 minutes during peak hours, every 15 minutes during off-peak periods), fewer stops, use of semi-exclusive lanes, and all-door passenger boarding and exiting. Metro is looking to the future to determine how to continue to provide quality service to King County residents and businesses. Metro Connects calls for a significant expansion of the RapidRide program. By 2050, Metro plans to operate a minimum of 19 lines, providing this service to all areas of urban King County. Additional information on RapidRide is available online.<sup>24</sup>
- Flexible services Flexible services are transportation services that do not operate using a fixed route and are tailored to meet specific community needs. Flexible services may or may not serve designated stops or hubs, depending on service design. Metro plans and provides a range of flexible services, with partner support, to parts of King County where the infrastructure, density, or land uses are not optimal for traditional fixed-route bus service and could benefit from new approaches and complementary services. Flexible services are an important part of Metro's efforts to deliver transportation alternatives across King County in an equitable and sustainable way. More information on Metro's on-demand flexible services options is available online.<sup>25</sup>
- Access Paratransit Access Paratransit is Metro's response to the Americans with Disabilities Act, which
  requires transit agencies to provide paratransit services for people who cannot use regular, fixed-route
  transit. It is a primarily van-operated, demand-responsive service with variable routes and schedules.
  Access provides trips to eligible people with disabilities who are unable to use Metro's fixed-route or
  DART service. Passengers must apply and be found eligible to use Access service before making a trip.
  Access Paratransit vehicles are owned by Metro and operated and maintained by a third-party
  contractor. Additional information on the Access ADA Paratransit Program can be found online.<sup>26</sup>

<sup>&</sup>lt;sup>23</sup> See additional Metro policy information at <u>kingcounty.gov/depts/transportation/metro/about/policies</u> (accessed September 23, 2023); Metro routes, schedules, and maps at <u>kingcounty.gov/en/dept/metro/routes-and-service/schedules-and-maps</u> (accessed September 23, 2023); and other Metro system and performance information at <u>kingcounty.gov/en/dept/metro/about/data-and-reports</u> (accessed September 23, 2023).

<sup>&</sup>lt;sup>24</sup> See additional RapidRide information at <u>kingcounty.gov/depts/transportation/metro/travel-options/bus/rapidride</u> (accessed September 23, 2023).

<sup>&</sup>lt;sup>25</sup> See additional Metro flexible services information at <u>kingcounty.gov/depts/transportation/metro/travel-options/on-demand</u> (accessed September 25, 2023) and Community Van program information at <u>kingcounty.gov/en/dept/metro/travel-options/community-van</u> (accessed September 25, 2023).

<sup>&</sup>lt;sup>26</sup> See additional Access ADA Paratransit Program information at <u>kingcounty.gov/en/dept/metro/travel-options/accessible-services</u> (accessed September 25, 2023).

- Special and Custom Bus Service Metro provides special transit services for major community and
   sporting events in partnership with event sponsors. Information regarding Metro's special event service
   can be found online.<sup>27</sup>
- Contract Services Metro serves as the operator for other transit services in Seattle and King County.

  Metro operates regional ST Express bus routes in King County as well as Link light rail for Sound Transit.

  Metro operates the Seattle Streetcar lines for the City of Seattle.

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• Service Connections - Metro service connects to a wide range of other transportation services in King County, including bus, rail, ferry, and air travel hubs. Metro provides intermodal connections with Sound Transit Link light rail and Sounder commuter rail service, Amtrak rail service, Washington State Ferries, Kitsap Transit ferries, and Seattle-Tacoma International Airport. Metro also connects with other bus services including Sound Transit, Community Transit, Pierce Transit, and intercity bus service.

Metro Programs: Transportation Demand Management, Equity and Social Justice, and Partnerships Metro offers many programs, products, and services to area employers, other organizations, and individuals to make transit accessible and affordable. These programs are designed to encourage behavior change to reduce reliance on single occupancy vehicle trips, vehicle miles traveled (VMT), and environmental impacts. Major Metro programs include:

- ORCA Business Partnerships Employers can contract with Metro to provide ORCA cards as subsidized passes for their employees to access public transportation services, including bus, commuter rail, Link light rail, streetcar, ferry, water taxi, Vanpool/Vanshare, and guaranteed ride home services. Employers can select a comprehensive program or a flexible package to suit their needs. Currently, Metro's ORCA Business Passport and ORCA Business Choice programs have more than 1,600 participating employers.
- ORCA LIFT ORCA LIFT provides a discounted transit fare of \$1.00 per trip for residents who earn less than 200 percent of the federal poverty level and are between 19 and 64 years of age. At the end of 2021 there were 40,128 valid ORCA LIFT cards. Additional information on ORCA LIFT can be found online.<sup>28</sup>
- Human services bus tickets Metro subsidizes bus tickets annually for eligible human services agencies to purchase and distribute to the people they serve. Metro subsidizes 90 percent of the cost of the tickets, for a total annual subsidy of \$4 million. Human services agencies apply to participate in the program. During 2021, the 165 selected agencies distributed more than 983,500 tickets to people in need (human services ticket sales were lower in 2021 due to the COVID-19 pandemic). More information on human service agency tickets is available online.<sup>29</sup>
- Commuter vans (Vanpool/Vanshare) The Metro Vanpool program groups five or more commuters to share a ride to work, using a Metro-supplied van. Vanshare is for shorter trips, intended to bridge the gap between public transportation (bus, train, water taxi, or ferry) and a final destination; groups of five or more commuters share the ride to or from a public transit link or transit hub. Metro provides the van and rider support services, maintenance, insurance, fuel, tires, and training for a per-rider monthly fee. More information on commuter vans is available online.<sup>30</sup>
- Community Access Transportation Program The Community Access Transportation Program
  expands mobility options for people with disabilities, people aged 62 years and older, and low-income
  populations by developing partnerships with community agencies and jurisdictions in King County.
  Metro provides vehicles and/or operating funds to assist community agencies in setting up their own
  transportation services.

<sup>&</sup>lt;sup>27</sup> See additional special and custom bus service information at <u>kingcounty.gov/en/dept/metro/rider-tools/local-sports</u> (accessed September 25, 2023).

<sup>&</sup>lt;sup>28</sup> See additional ORCA LIFT information at <u>kingcounty.gov/en/dept/metro/fares-and-payment/discounted-fares/orca-lift</u> (accessed September 25, 2023).

<sup>&</sup>lt;sup>29</sup> See additional human service agency ticket information at <u>kingcounty.gov/depts/community-human-services/housing/services/housing/bus-ticket-program</u> (accessed September 25, 2023).

<sup>&</sup>lt;sup>30</sup> See additional commuter van information at <u>kingcounty.gov/depts/transportation/metro/traveloptions/rideshare/programs/vanpool</u> (accessed September 25, 2023).

- **Bicycle programs and facilities** Metro supports bicycling in conjunction with public transportation by providing racks on every bus to accommodate three bicycles, racks on request for Vanpools, racks for multiple bikes on passenger ferries, bicycle lockers at park-and-ride lots and transit centers, and information about getting around by bicycle. Bicycling is also included as a travel option in Metro incentive programs that encourage alternatives to driving alone. More information about bike parking is available in section IV.D.4 of this appendix and online.<sup>31</sup>
  - **Home Free Guarantee** Metro provides emergency taxi service for commuters who arrive at work without their personal vehicle (by transit, carpool, Vanpool, bicycle, or walking) and have an unplanned emergency or unscheduled overtime. Information on this program can be found online.<sup>32</sup>

- **Job Access Reverse Commute Program** The Job Access Reverse Commute Transportation Program partners with social service agencies, community-based organizations, housing authorities, local jurisdictions, and employers to assist with transportation issues for low-income individuals. Information on Metro's JARC program can be found online.<sup>33</sup>
- In Motion Program In Motion enlists local businesses, organizations, and communities as partners to encourage people to register as participants and pledge to reduce car trips over a period of time as a challenge to change their behavior. Participants earn rewards for their reduced trips, including commute-based trips or everyday trips. Additional information on In Motion can be found online.<sup>34</sup>
- Just One Trip Program The Just One Trip (JOT) Program delivers campaigns in sync with planned Metro service restructures, onboarding of new or flexible mobility services, and major transit system expansions in the region such as the opening of new Link light rail lines. JOT campaigns focus on ensuring new and existing riders are aware of and understand these service changes, how their trip may be adjusted, and what new services have become available to them. The campaigns encourage ridership recovery of lapsed transit riders and share the importance of utilizing the ORCA card transit fare system to ease the payment process and receive the best fare for any trip. Through campaign messaging, the JOT Program strives to help riders make the connection between how their mode choice for any trip-local or regional, personal or commute, peak or mid-day-has an impact on the environment, their health, community safety and quality of life, and incentivizes behavior change. The most recent JOT campaign was related to the opening of North Link/Link Line 1 in fall 2022; it reached thousands of riders in north King County and engaged 7,800 households in an incentive program to recover transit ridership.
- Metro Youth Mobility Program The Metro Youth Mobility Program (MYMP) works to realize a future
  where youth access to transit is safe, easy, affordable, and convenient and where today's young people
  become life-long transit riders. The MYMP is carried out in partnership with local school districts, school
  administrators, teachers, and community-based organizations to enhance youth access to transit and
  conduct education and outreach focused on building youth ridership. The MYMP also promotes the
  Free Youth Transit Pass implemented on September 1, 2022.
- Ridership Recovery Program The Ridership Recovery Program focuses on partnership with community-based organizations and small/priority businesses to deepen Metro's reach into populations currently served or employed by these entities, including essential and under-employed workers; people with low-incomes, limited-English proficiency, or disabilities; communities of color; and cash-paying riders. The goal is to build upstream capacity to maximize downstream impacts to enhance equitable ridership recovery where needs are greatest in King County and to increase enrollment in reduced fares programs for eligible populations.

<sup>&</sup>lt;sup>31</sup> See additional Metro bike facility information at <u>kingcounty.gov/depts/transportation/metro/travel-options/bike</u> (accessed September 25, 2023).

<sup>&</sup>lt;sup>32</sup> See additional Home Free Guarantee Program information at <u>kingcounty.gov/depts/transportation/metro/employer-programs/home-free-guarantee</u> (accessed September 25, 2023).

<sup>&</sup>lt;sup>33</sup> See additional Job Access Reverse Commute Program information at <u>metro.kingcounty.gov/tops/jobaccess/jobseeker.html</u> (accessed September 25, 2023).

<sup>&</sup>lt;sup>34</sup> See additional In Motion information at <u>kingcounty.gov/depts/transportation/metro/programs-projects/transit-education-outreach/in-motion</u> (accessed September 25, 2023).

- Community Transportation Navigators The Community Transportation Navigators is a peer-to-peer transportation outreach and education program focused on identifying and reducing barriers for low-income and limited-English speaking communities to access transportation. Community Navigators are paid community liaisons who have existing connections to the communities they serve, speak the same language of those they engage, have similar lived experiences to those participating in the program, and have experience using public transportation.
  - Rideshare Online RideshareOnline.com provides free online self-serve ride matching services. The online system matches commuters interested in sharing rides in carpools, commuter vans, group biking, event travel, and with other parents transporting kids to school. Additional information on Metro's Rideshare program can be found online.<sup>35</sup>

#### **Metro Capital Facilities**

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Metro capital facilities include physical plants, rolling stock (buses and other vehicles), electrical trolley lines and substations, facilities such as park-and-ride lots and bus shelters, and roadway infrastructure developed in partnership with local jurisdictions, such as semi-exclusive bus priority lanes. Voter approved sales tax and federal grants are the primary revenue sources.

Metro operates service on the SODO busway, a transit-only roadway between S Spokane Street and Royal Brougham Way in Seattle.

- Physical Plant Metro's administrative offices are located at 201 South Jackson Street in downtown Seattle. Metro maintains seven operating bases located throughout the county, with one additional base under construction. Metro purchased an additional base for Access paratransit operations in 2021. Metro has a variety of other physical facilities to support the provision of transit and ridesharing service. Major facilities include:
  - o Central Campus and SODO (Seattle)
    - Atlantic/Central Bases, 1270 6th Avenue S, Seattle
    - Atlantic Maintenance, 1555 Airport Way S, Seattle
    - Central Maintenance, 640 S Massachusetts Street, Seattle
    - Ryerson Base, 1220 4th Avenue S, Seattle
    - Transit Control Center, 1263 6th Avenue S, Seattle
    - Employee Parking Garage, 1505 6th Avenue S, Seattle
    - Tire and Millwright Shop, 1555 Airport Way S, Seattle
    - Marketing Distribution Center, 1523 6th Avenue S, Seattle
    - Power Distribution, 2255 4th Avenue S, Seattle
  - o Campus & Eastside
    - Bellevue Base, 1790 124th Avenue NE, Bellevue
    - East Base, 1975 124th Avenue NE, Bellevue
    - Vanpool Distribution, 18655 NE Union Hill Road, Redmond
    - o Tukwila
      - South Base, 12100 East Marginal Way S, Tukwila
      - Interim Base, 12400 E Marginal Way S, Tukwila
      - South Annex Base, 11911 E Marginal Way S, Tukwila (opening in 2028 on the former site of the Training and Safety Center)
      - Training and Safety Center, 3401 S Norfolk Street, Seattle (leased facility)
      - South Facilities, 11911 E Marginal Way S, Tukwila
      - Component Supply Center, 12200 E Marginal Way S, Tukwila
- 648 o South Park
- Access Base, 8100 8th Avenue S, Seattle
- 650 o North Seattle and Shoreline
  - North Base, 2160 N 163rd Street, Shoreline

<sup>&</sup>lt;sup>35</sup> See additional Rideshare Online information at <u>kingcounty.gov/depts/transportation/metro/travel-options/rideshare</u> (accessed September 25, 2023).

North Facilities, 12525 Stone Avenue N, Seattle

- Metro Fleet As of 2022, Metro's fleet includes more than 1,400 fuel-efficient buses. The bus fleet includes 40- and 60-foot hybrid diesel-electric buses, electric trolleys, and battery electric buses. Metro also operates and maintains more than 100 Sound Transit buses. Metro's fleet includes paratransit and DART vehicles, Rideshare vans and electric Metropool vehicles, and passenger ferries. Metro also has a fleet of approximately 670 non-revenue vehicles to support service and operations, which consists of vehicles ranging from light-duty vehicles, such as sedans and vans, to medium- and heavy-duty vehicles such as tow trucks and maintenance trucks.
- **Bus Stops and Shelters** Metro's transit system includes more than 7,000 bus stops. As of 2019, 62 percent of King County residents lived within one-half mile of frequent transit service, and 81 percent of jobs within King County were within one-half mile of frequent service.
- Park-and-Ride Facilities A park-and-ride facility is a lot or garage where people may park personal vehicles and catch a bus, light rail, train, Vanpool, or carpool to reach their destination. Park-and-ride lots are built, owned, leased, and maintained by several different agencies. A park-and-ride lot can also serve as a park-and-pool lot, where individuals can rendezvous to form carpools and Vanpools.

There are 115 park-and-ride facilities in the King County Metro area, with a total of 26,065 vehicle spaces (as of 2022). Metro, Sound Transit, and the Washington State Department of Transportation own permanent park-and-ride lots within King County; Metro also leases spaces from a wide variety of agencies and organizations. Although there have been significant changes in park-and-ride usage patterns since the onset of the COVID-19 pandemic, Metro remains committed to implementing its permit parking fee program; this program was developed in 2019 and targets Metro-owned lots at or above 90% capacity. Regional park-and-ride utilization reports and park-and-ride locations, capacity, routes, and amenities can be found online.<sup>36</sup>

• **Electric Vehicle Charging Equipment** - Fourteen Metro routes use electric trolley buses. To support the electric trolley bus network, Metro operates and maintains a network of overhead power infrastructure and 35 electrical substations to power the system. In addition, Metro has been testing battery-electric buses and developing the charging stations and power infrastructure necessary to charge them, with the goal of achieving a zero-emission fleet by 2035.

Metro oversees a system of Level 2 light-duty vehicle chargers installed at multiple King County facilities. These chargers are located at public-facing park-and-ride lots and transit facilities, as well as internally focused county facilities. Metro recently upgraded a number of these chargers at park-and-ride lots and other facilities to replace outdated equipment. Metro is currently focusing a major effort on installing chargers at its bases and facilities to support the phased electrification of its non-revenue vehicle fleets. Metro is also working to support its goal to electrify its bus fleet by 2035 by installing bus charging equipment at its bases. Metro has developed the South Base Test Charging Facility with bus charging equipment and will be installing bus charging equipment at Interim Base and South Annex Base as they are constructed. Metro is also planning for the conversion of its existing bases to electric operations to support a fully electric bus fleet.

• Capital Program - The King County Capital Improvement Program funds capital projects to help maintain and improve transit assets and infrastructure. Metro has its own designated revenue sources and service areas. Metro's Public Transportation Fund Capital Program provides for ongoing replacement of aging infrastructure and supports service delivery and expansion. The Capital Improvement Program focuses on maintaining existing infrastructure and systems, partnering with other regional transportation agencies, and providing the physical capacity needed to support projected service. A key priority for Metro is supporting the transition to a zero-emissions fleet, with investments

<sup>&</sup>lt;sup>36</sup> See additional regional park-and-ride information at <u>psrc.org/park-and-ride-database</u> (accessed September 25, 2023) and additional county park-and-ride information at <u>kingcounty.gov/depts/transportation/metro/travel-options/parking</u> (accessed September 25, 2023).

intended to support a fully zero-emission fleet by 2035. Additional information on the Capital Improvement Program and the Transit Asset Management plan can be found online.<sup>37</sup>

#### Sound Transit

Sound Transit is a regional transit authority that plans, builds, and operates express buses, light rail, and commuter train services for the central Puget Sound Region so that people can get to where they're going, safely and economically. Additional information on Sound Transit can be found online.<sup>38</sup>

#### **ST Express Regional Bus Service**

ST Express regional bus service includes limited-stop bus routes, partnerships with the Washington State Department of Transportation to develop HOV direct-access projects, and a variety of community connection facilities including transit centers, access improvements, and park-and-ride lots. ST Express buses travel between major cities in King, Snohomish, and Pierce counties. Information on routes, related projects, and fares can be found online.<sup>39</sup>

#### **Sounder Commuter Rail**

Sounder commuter rail uses diesel-powered locomotives and multilevel passenger coach trains that run on BNSF Railway Company freight tracks. Sounder trains share the tracks with freight trains and Amtrak passenger trains, using upgraded signals, switches, and street crossings. Trains travel between Lakewood and Seattle and between Everett and Seattle. Information on routes, related projects, and fares can be found online.<sup>40</sup>

#### **Link Light Rail**

Link light rail is an electrically powered service that provides high-capacity transportation within the region's highest employment and transit ridership areas. Link light rail travels from Seattle Northgate station to SeaTac Angle Lake station. Information on routes, related projects, and fares can be found online.<sup>41</sup>

#### **System Integration**

The regional mass transit light rail system, operated by Sound Transit, extends from Angle Lake to Northgate. Metro coordinates its services with regional system expansions to provide an integrated mobility network. For example, in 2021, Sound Transit opened three new Link light rail stations in north Seattle to extend the system from University of Washington station to Northgate Transit Center. Together with the opening of the Link extension, Metro implemented the North Link Connections Mobility Project to better serve the north Seattle, Shoreline, and North Shore communities.

Sound Transit is continuing to expand the system and open more stations in the mid-2020s and beyond. Sound Transit 2 projects are currently scheduled to be completed by 2025. Sound Transit 3 projects will be delivered between 2026 (bus rapid transit) and 2045. More information on Sound Transit plans for system expansion and is available online.<sup>42</sup>

Sound Transit services are integrated with local bus routes operated by King County Metro so that all services support and complement each other. A 1998 Memorandum of Understanding between the two agencies established the basic principles under which a coordinated system will be planned and operated.

<sup>&</sup>lt;sup>37</sup> See additional Capital Improvement Program information at <u>kingcounty.gov/~/media/council/documents/2022/A Capital-Improvement-Program-11-4-2022</u> (accessed September 25, 2023) and additional Transit Asset Management Plan information at <u>kingcounty.gov/metro/tam</u> (accessed September 25, 2023).

<sup>&</sup>lt;sup>38</sup> See additional Sound Transit information at <u>soundtransit.org</u> (accessed September 25, 2023).

<sup>&</sup>lt;sup>39</sup> See additional Sound Transit Express services information at <u>soundtransit.org/Rider-Guide/ST-Express-bus</u> (accessed September 25, 2023).

<sup>&</sup>lt;sup>40</sup> See additional Sound Transit commuter rail information at <u>soundtransit.org/ride-with-us</u> (accessed September 25, 2023).

<sup>41</sup> See additional Sound Transit light rail information at <u>soundtransit.org/Rider-Guide/Link-light-rail</u> (accessed September 25, 2023).

<sup>&</sup>lt;sup>42</sup> See additional Sound Transit expansion plan information at <u>soundtransit.org/system-expansion</u> (accessed September 25, 2023) and Sound Transit Development Plan Annual Reports at <u>soundtransit.org/About-Sound-Transit/News-and-events/Reports/Transit-Development-Plan</u> (accessed September 25, 2023).

Metro has adapted bus service to reflect the existing components of Link light rail and is planning for future service restructures as additional segments of Link light rail are opened in the mid-2020s and beyond.

#### 4. Active Transportation Facilities

#### Bicycle Parking at Transit Facilities

 Bicycle parking and secure storage support ridership and overall mobility by increasing options for people to connect to bus service or to meet a carpool or Vanpool. King County park-and-ride lots and transit centers have bicycle racks and/or bicycle lockers for people who travel by personal bike to meet transit service. Metro aims to reduce car travel to these locations by making it reliable to secure bicycles. As of July 2022, Metro provides secure bike parking at 29 locations, with a total of more than 250 spaces in a combination of leased and BikeLink on-demand lockers. In addition, regional partner Sound Transit provides more than 400 secure locker spaces at 20 locations within the King County portion of their service area. Sound Transit also offers secure bike cages at seven locations in King County with a total of more than 270 spaces. Both Metro and Sound Transit plan expansion of secure bike parking and/or replacement of older equipment in the next few years. Information on transit-related bicycle parking is available online.<sup>43</sup>

#### Regional Trails Network

The Regional Trails network is used for recreational and transportation purposes. The network extends broadly throughout the county, linking cities, other counties in the Central Puget Sound, and other regions of the state. The network reaches more than 30 cities in King County, and is used extensively for active transportation and recreation. King County government stewards approximately 175 miles of the 300-mile network of multi-purpose paved and unpaved shared use paths. Several cities, the Port of Seattle, and the State of Washington are responsible for the remaining portions. Information about the King County Regional Trails System is available in the King County Open Space Plan: Parks, Trails, and Natural Areas 2022 Update.<sup>44</sup>

#### Roadside Active Transportation Facilities

The Department of Local Services Road Services Division maintains active transportation facilities such as bicycle lanes, sidewalks, and shoulders on unincorporated county roads. The division provides crosswalks, signals, pavement markings, and signage to help facilitate safer active travel. The Transportation Needs Report, an appendix to this *Comprehensive Plan*, includes known and forecasted active transportation needs on unincorporated King County roads. The *2021 King County Road Services Division Americans with Disabilities Act Transition Plan* inventoried unincorporated county road pedestrian facilities and guides accessibility improvements to the existing network.<sup>45</sup>

#### 5. Rail and Freight

#### Rail Facilities

The rail network in the state has four distinct types of rail services: freight, long distance passenger, intercity passenger, and commuter.

The Class I freight railroad system primarily serves the inland transportation component of the supply chain for large volumes of import and export cargo moving through state ports including the Port of Seattle. Two Class I freight railroads, the BNSF Railway and the Union Pacific Railroad, as well as 27 Class III (short-line) freight railroads operate through communities in Washington. There are no Class II freight railroads in Washington.

<sup>&</sup>lt;sup>43</sup> See additional transit-related bicycle parking information at <u>kingcounty.gov/en/dept/metro/rider-tools/bikes-and-transit/secure-bike-parking</u> (accessed September 25, 2023).

<sup>&</sup>lt;sup>44</sup> King County Open Space Plan: Parks, Trails, and Natural Areas 2022 Update, <u>kingcounty.gov/~/media/services/parks-recreation/parks/openspace/2022 KC OpenSpacePlan Update Final</u> (accessed September 25, 2023).

<sup>&</sup>lt;sup>45</sup> 2021 King County Road Services Division Americans with Disabilities Act Transition Plan, <u>kingcounty.gov/depts/local-services/roads/ada-plan</u> (accessed September 25, 2023).

Amtrak provides long distance passenger rail service between Seattle and Chicago, Illinois (the Empire Builder) and Seattle and Los Angeles, California (The Coast Starlight). Ridership for both services declined from 2013-2019 but is expected to increase steadily through 2040.

Amtrak provides intercity passenger rail service, known as Amtrak Cascades, along the I-5 corridor between Eugene, Oregon and Vancouver, British Columbia; the service is supported by Washington State Department of Transportation funding. The Cascades High-Speed Rail Program provides four daily round trips between Seattle and Portland, and one daily round trip between Seattle and Vancouver, B.C. There are two Amtrak Stations in King County, located in the cities of Seattle and Tukwila. Ridership has been largely level, with slight growth in 2018-2019. Ridership for intercity rail is expected to increase steadily, pending Washington State Department of Transportation service investments. Information on passenger rail facilities, projects, and data and the Washington State Department of Transportation 2019 Washington State Rail Plan are available online.<sup>46</sup>

Sound Transit's Sounder commuter rail uses diesel-powered locomotives and multi-level passenger coach trains that run on BNSF Railway freight tracks. Sounder shares the tracks with freight trains and Amtrak passenger trains, using upgraded signals, switches, and street crossings. Trains travel between Lakewood and Seattle and between Everett and Seattle. Sounder ridership grew from about 2.1 million riders in 2010 to 4.6 million riders in 2019 and is expected to grow significantly by 2040. Information on Sounder routes, related projects, and fares is available online.<sup>47</sup>

#### Other Freight Transport

Freight transport is a major function of the regional transportation system. Regional planning for freight is coordinated by the Puget Sound Regional Council and incorporated into the 2022-2050 Puget Sound Regional Council Regional Transportation Plan. The Regional Transportation Plan envisions an interconnected network of highways and streets, railways, deep water ports and waterways, and airports. It examines the current and future conditions and issues as the region looks to planning for a sustainable transportation system out to 2050. Key elements of the regional freight system include roadway corridors used for truck transport. The Washington State Department of Transportation maintains a statewide Freight and Goods Transportation System which classifies the state's freight corridors by modes based on annual freight tonnage. Regional centerline miles by Freight and Goods Transportation System classification are included in the Regional Transportation Plan. Additional information on regional and state freight and goods planning is available online.<sup>48</sup>

## V. Vehicle Travel Forecast Summary

The Washington State Growth Management Act requires the transportation element of comprehensive plans to include a forecast of traffic for at least ten years based on the adopted land use plan, and to provide information on the location, timing, and capacity needs of future growth (RCW 36.70A.70(6)(E). It also requires an estimate of traffic impacts to state-owned transportation facilities resulting from the land use assumptions. To meet these requirements,

resulting from the land use assumptions. To meet these requirements, the King County Department of Local Services, Road Services Division, adopted the Puget Sound Regional Council's Regional Travel Demand Forecasting Model (Travel Model).

The Puget Sound Regional Council Travel Model forecasts future travel patterns and conditions within the four counties of the Puget Sound region (King, Kitsap, Pierce, and Snohomish). The Travel Model produces

<sup>&</sup>lt;sup>46</sup> See additional passenger rail information at <u>wsdot.wa.gov/travel/passenger-rail</u> (accessed September 25, 2023) and the state rail plan at <u>wsdot.wa.gov/construction-planning/statewide-plans/freight-rail-plans/2019-washington-state-rail-plan</u> (accessed September 25, 2023).

<sup>&</sup>lt;sup>47</sup> See additional Sounder commuter rail information at <u>soundtransit.org/get-to-know-us/documents-reports</u> (accessed September 25, 2023) and at <u>soundtransit.org/ride-with-us</u> (accessed September 25, 2023).

<sup>&</sup>lt;sup>48</sup> See additional regional freight information at <u>psrc.org/planning-2050/regional-transportation-plan</u> (accessed September 25, 2023) and state freight information at <u>wsdot.wa.gov/construction-planning/statewide-plans/freight-plans</u> (accessed September 25, 2023).

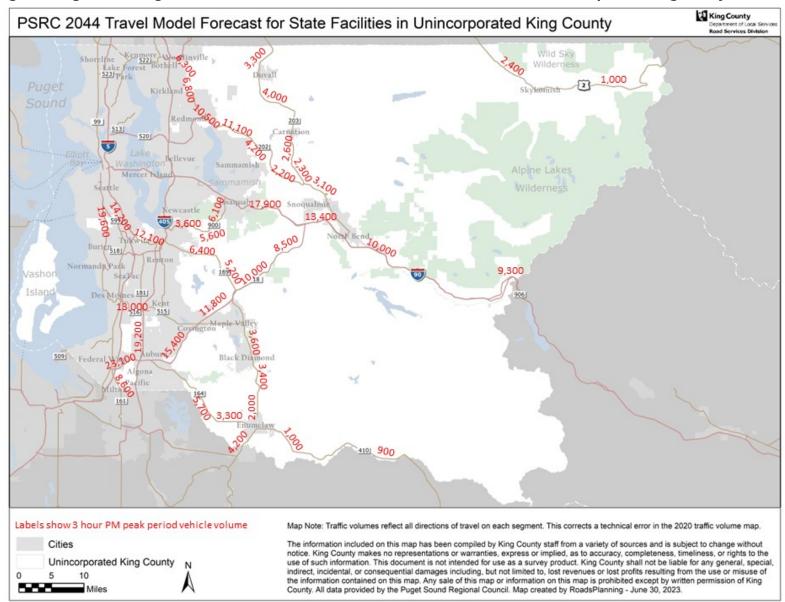
data that are used to analyze the likely impacts of forecast growth, travel, and infrastructure investments on the region's transportation infrastructure and environment, and thus provides the foundation from which the Puget Sound Regional Council develops many of its plans, most notably the *Regional Transportation Plan*. The Travel Model is used to support the technical analysis of transportation projects and investments under consideration in the region. In addition to transportation analysis, the travel model also supports growth management activities at the agency.<sup>49</sup>

The Road Services Division worked with Puget Sound Regional Council modeling staff to run a model scenario with a forecast year of 2044. Raw model output was analyzed by King County planning staff. The forecast three-hour p.m. peak period (afternoon rush hour) traffic volumes on state facilities were mapped to review performance on state facilities, as shown in Figure 7, "Puget Sound Regional Council 2044 Travel Model Forecast for State Facilities in Unincorporated King County." Modeled traffic volumes and roadway capacities on county roads were also reviewed for indications of potential future congestion. Road segments where traffic volumes exceeded roadway capacities (ratios greater than one) were also mapped, as shown in Figure 8, "Puget Sound Regional Council 2044 Travel Model Congestion Forecast for Unincorporated King County." Planning and engineering staff considered Travel Model analysis and other factors in the development of projects for King County's Transportation Needs Report.

Detailed information on the traffic forecasting model and assumptions used for the *Comprehensive Plan* are available from the Puget Sound Regional Council.

<sup>&</sup>lt;sup>49</sup> See additional Puget Sound Regional Council Travel Model information at <u>psrc.org/activity-based-travel-model-soundcast</u> (accessed September 25, 2023).

#### Figure 7: Puget Sound Regional Council 2044 Travel Model Forecast for State Facilities in Unincorporated King County



## Figure 8: Puget Sound Regional Council 2044 Travel Model Congestion Forecast for Unincorporated King County

