

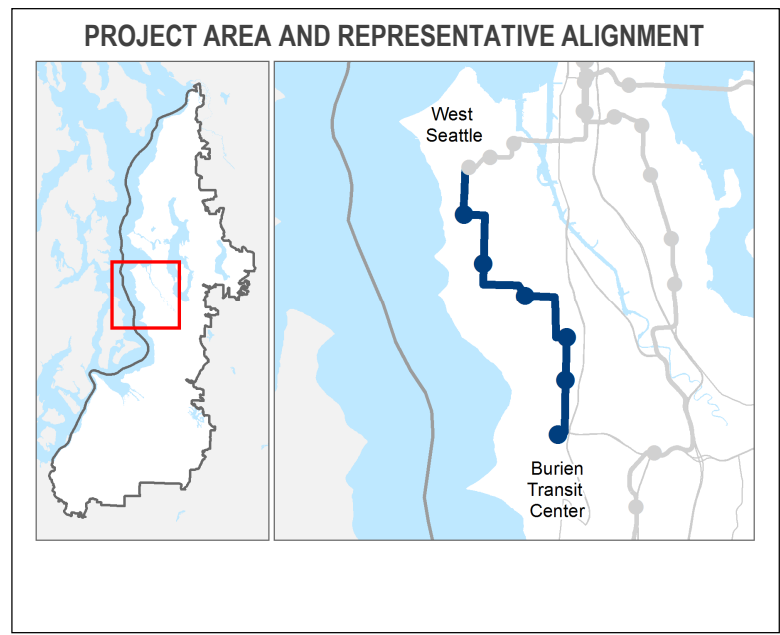
C-13: West Seattle/Junction to Burien Transit Center LRT

Project Number	C-13
Subarea	North King
Primary Mode	Light Rail
Facility Type	Corridor
Length	9.1 miles
Version	ST Board Workshop
Date Last Modified	11-25-2015

SHORT PROJECT DESCRIPTION

This project would build light rail from Alaska Junction in West Seattle to the Burien Transit Center in an aerial alignment with six stations.

Note: The elements included in this representative project will be refined during future phases of project development and are subject to change.



KEY ATTRIBUTES	
REGIONAL LIGHT RAIL SPINE <i>Does this project help complete the light rail spine?</i>	No
CAPITAL COST <i>Cost in Millions of 2014 \$</i>	\$2,697 — \$2,885
RIDERSHIP <i>2040 daily boardings</i>	10,000 — 15,000
PROJECT ELEMENTS	<ul style="list-style-type: none"> • Approximately 9.1 miles of elevated light rail • Six elevated stations: Burien, SW 128th Street, White Center, Westwood Village, High Point, Morgan Jct. • Stations designed to accommodate 4-car trains • Purchase of 20 light rail vehicles • Peak headways: 6 minutes • 1 percent for art per Sound Transit policy • Non-motorized access facilities (bicycle/pedestrian), transit-oriented development (TOD)/planning due diligence, bus/rail integration facilities, and sustainability measures (see separate document titled “Common Project Elements”)
NOT INCLUDED	<ul style="list-style-type: none"> • Parking not included • See separate document titled “Common Project Elements”
ISSUES & RISKS	<ul style="list-style-type: none"> • Maintenance of traffic during construction • Light rail currently operates in Seattle and specific station area standards are codified; light rail is included in both Seattle and Burien’s comprehensive plans and other planning documents

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Sound Transit has developed a conceptual scope of work for this candidate project for the purpose of generating a representative range of costs, both capital and operating; and benefits, including ridership forecasts, TOD potential, multi-modal access and others. This information is being developed to assist the Sound Transit Board as it develops an ST3 system plan, including phasing of investments and financial plan, for voter consideration. Final decisions on project elements (e.g., alignment, profile, number of stations, station locations, and number of parking stalls) will be determined after completion of system planning, project level environmental review, and preliminary engineering during which additional opportunities for public participation will be provided. Therefore, this scope definition should not be construed as a commitment that all representative features will be included in the final developed project.

Long Description:

This project would build light rail from the Alaska Junction in West Seattle to the Burien Transit Center in an aerial alignment with six stations.

Assumptions:

- Generally within existing street right-of-way along existing arterials by removing existing on-street parking
- No additional parking provided
- Traction power substations are generally placed at 1-mile intervals, close to stations, if possible, with additional right-of-way acquisition included
- For non-motorized station access allowances, Burien, White Center, High Point, Morgan Jct. are characterized as urban stations and the SW 128th Street and Westwood Village stations are categorized as suburban stations.
- For bus/rail integration, facilities have been assumed at the Westwood Village station

Environmental:

Sound Transit will complete project-level state and federal environmental reviews as necessary; provide mitigation for significant impacts; obtain and meet the conditions of all required permits and approvals; and strive to exceed compliance and continually improve its environmental performance.

Utilities:

Utility relocation as needed to complete the project, including fiber optics, sewer, water, overhead electric/communications, etc.

Right-of-Way and Property Acquisition:

- Property interests required for the representative alignment include fee acquisitions, partial acquisitions, easements and interagency agreements
- Property acquisition for bus/rail integration facility

Potential Permits/Approvals Needed:

- Building permits: Electrical, Mechanical, Plumbing
- Utility connection permits
- Construction-related permits (clearing and grading, stormwater management, street use, haul routes, use of city right-of-way)
- Master use
- Land use approvals (Conditional use, design review, site plans, Comprehensive Plan or development code consistency, Special Use Permits)
- All required local, state, and federal environmental permits
- NEPA/SEPA and related regulations

Project Dependencies:

Requires completion of either project C-03a or C-03b

Potential Project Partners:

- Cities of Seattle and Burien
- Transit partner serving this project: King County Metro
- King County
- FTA

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Cost:

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In Millions of 2014\$

ITEM	COST	COST WITH RESERVE
Agency Administration	\$143.68	\$153.73
Preliminary Engineering & Environmental Review	\$79.72	\$85.31
Final Design & Specifications	\$158.32	\$169.40
Property Acquisition & Permits	\$261.11	\$279.39
Construction	\$1,614.88	\$1,727.93
Construction Management	\$142.49	\$152.46
Third Parties	\$32.06	\$34.31
Vehicles	\$106.00	\$113.42
Contingency	\$158.32	\$169.40
Total	\$2,696.60	\$2,885.36

Design Basis:












Conceptual

The costs expressed above include allowances for TOD planning and due diligence, Sustainability, Bus/rail integration facilities, and Non-Motorized Access. These allowances, as well as the costs for Parking Access included above, are reflected in the following table. Property acquisition costs are not included in the table below, but are included within the total project cost above.

ITEM	COST	COST WITH RESERVE
TOD planning and due diligence	\$0.96	\$1.03
Sustainability	\$19.05	\$20.38
Parking access	N/A	N/A
Non-motorized (bicycle/pedestrian) access	\$30.76	\$32.91
Bus/rail integration facilities	\$2.75	\$2.95

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Evaluation Measures:

MEASURE	MEASUREMENT/RATING	NOTES	
 Regional Light Rail Spine <i>Does project help complete regional light rail spine?</i>	No		
 Ridership <i>2040 daily station boardings</i>	10,000 — 15,000		
 Capital Cost <i>Cost in Millions of 2014 \$</i>	\$2,697 — \$2,885		
 Annual O&M Cost <i>Cost in Millions of 2014 \$</i>	\$28.82		
 Travel Time <i>In-vehicle travel time along the project (segment)</i>	22 min		
 Reliability <i>Quantitative/qualitative assessment of alignment/route in exclusive right-of-way</i>	High	100% in exclusive right-of-way	
 System Integration <i>Qualitative assessment of issues and effects related to connections to existing local bus service and potential future integration opportunities</i>	Medium	Medium-high to medium-low daily transit connections and opportunities for integration with realigned bus service	
	Ease of Non-motorized Access <i>Qualitative assessment of issues and effects related to non-motorized modes</i>	Medium	Medium to low intersection density providing non-motorized access with no unique barriers
	Percent of Non-motorized Mode of Access <i>Percent of daily boardings</i>	55-65%	
 Connections to PSRC-designated Regional Centers <i>Number of PSRC-designated regional growth and manufacturing/industrial centers served</i>	1 center	Burien	
	Land Use and Development/TOD Potential <i>Quantitative/qualitative assessment of adopted Plans & Policies and zoning compatible with transit-supportive development within 0.5 mile of potential stations</i>	Medium-Low	Limited support in local and regional plans; approx. 20% land is compatibly zoned
	<i>Qualitative assessment of real estate market support for development within 1 mile of potential corridor</i>	Medium	Moderate market support
	<i>Density of activity units (population and employment for 2014 and 2040) within 0.5 mile of potential station areas</i>	Pop/acre: 2014: 10; 2040: 12 Emp/acre: 2014: 2; 2040: 4 Pop+Emp/acre: 2014: 12; 2040: 16	
 Socioeconomic Benefits <i>Existing minority / low-income populations within 0.5 mile of potential station areas</i>	43% minority; 15% low-income		
<i>2014 and 2040 population within 0.5 mile of potential station areas</i>	Pop: 2014: 29,700; 2040: 35,200		
<i>2014 and 2040 employment within 0.5 mile of potential station areas</i>	Emp: 2014: 6,600; 2040: 10,700		

For additional information on evaluation measures, see <http://soundtransit3.org/document-library>