

Sounder: Extension of Service to DuPont, Upgrade of Track & Signals between Lakewood and DuPont and a New Station at DuPont

Project Number	S26
Subarea	Pierce
Primary Mode Impacted	Sounder
Facility Type	Sounder Service
Version Number	2.0
Date Last Modified	5/12/2006

Project Locator Map



Short Project Description

Provide up to 18 Sounder commuter rail trips (9 north and 9 south) between Lakewood and to DuPont Stations. Upgrade existing 8.1 mile, ST-owned track between Lakewood and DuPont, and modify existing DuPont Station to allow commuter rail service.

Project Purpose:

To extend Sounder commuter rail service further into south Pierce County.

Cost and Schedule

Costs (in Millions of 2005\$)

Capital Items (in Millions)

<i>Modify DuPont Station</i>	Low	High
Agency Admin	\$1.4	\$1.6
Environmental Clearance and PE	\$2.0	\$2.2
Final Design, Specs, Permitting	\$2.0	\$2.2
ROW Acquisition	\$1.4	\$1.6
Construction	\$16.4	\$18.8
Vehicles	\$0.0	\$0.0
Contingency	\$2.2	\$2.5
Total	\$25.3	\$29.1

Schedule

Schedule Not Yet Developed

<i>Upgrade Track (Lakewood/DuPont)</i>	Low	High
Agency Admin	\$4.3	\$4.9
Environmental Clearance and PE	\$5.8	\$6.7
Final Design, Specs, Permitting	\$5.8	\$6.7
ROW Acquisition	\$4.3	\$4.9
Construction	\$49.0	\$56.4
Vehicles	\$0.0	\$0.0
Contingency	\$6.5	\$7.5
Total	\$75.8	\$87.2

Total Capital	\$101.1	\$116.3
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<i>Design Basis</i>	Conceptual
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Annual O&M Costs*	\$1.5
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* In Millions of 2005 dollars

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Environmental Documentation Required

- Environmental Impact Statement Required
- Environmental Assessment Required
- Environmental Checklist Required

Relationships to Other Projects

<i>Relationship</i>	<i>Project</i>
Dependent on	Service extension requires track improvements east of Tacoma Dome Station (see Project S25)
Impacted by	Design of the project will be influenced by whether expansion of parking at adjacent Sounder station is implemented under ST2 (see Project S23)

Project Partners

Agency

BNSF	
Pierce Transit	
City of DuPont	
WSDOT (rail)	
City of Tacoma (Tacoma Rail)	

Long Description

The project scope and accompanying capital cost estimate are intended to include the entire project development cycle (administration, environmental clearance, design, all aspects of property acquisition, construction, testing, commissioning, and contingencies) from project initiation through start-up of operations.

Description:

Service: Up to 18 trips per day (9 north and 9 south); 8.1 mile extension from Lakewood Sounder station; additional train miles per day - 145.8; operating days per year - 255.

Operating costs shown represent the actual cost of extending Sounder service. However, the effective costs incurred by the Pierce subarea would be somewhat higher due to the current formula used for reallocation of shared costs among all subareas with Sounder service. Subareas with Sounder service that are not served by this project would experience a decrease in their shared costs.

Track upgrade:

Road Crossings

- Assume 6 locations: Bridgeport Way, Clover Creek Dr., N. Thorn St., Berkeley St.; Division Rd.; DuPont Rd.
- Address 2 skewed crossings between Lakewood and DuPont, use location along crossing at Pacific Avenue (Tacoma-Lakewood Corridor) as model.

Signals

- Upgrade to Central Train Control
- Use Tacoma –Lakewood to derive per/mile costs

Track

- Track upgrade (single track) – from 20 to 60 mph

Layover Facility

- New facility - estimated at \$3.0 million
- Security fencing around yard
- 8 foot fencing/non barbed wire

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DuPont Station Modifications

- One 600 foot platform on north side of tracks with canopies, shelters, leaning rails, and benches
- Signage, lighting, CCTV cameras, customer information monitors, public announcement system
- Ticket vending machines
- Station amenities, telephones, information kiosks
- 1 percent for art per ST policy
- Janitor room with storage, communications/electrical room
- New structured parking to provide up to 600 additional stalls
- Parking mitigation program during construction, as necessary
- Bike storage, lockers and racks
- Landscaping

Utilities:

None

Right-of-Way and Property Acquisition:

Allowances for permit review, potential utility relocation issues, security at Ft. Lewis, other miscellaneous ROW items.

Mitigation

The final project scope will include all mitigation(s) committed to by ST in pertinent, future project-level environmental documents

Exclusions

- Four bus bays (bays already exist at existing DuPont Station)
- Pedestrian bridge over tracks
- Public restrooms
- Non-structural aesthetic elements in excess of the ST art program

Permits Required:

Building, electrical, mechanical, utility, land use, and construction-related

Agreements Required:

City of Tacoma (related to ST/Tacoma agreement for track upgrade in Tacoma)
 City of DuPont
 Pierce Transit

Evaluation Measures

<i>Measure</i>	<i>Measurement/ Rating</i>	<i>Notes</i>
Average Weekday Ridership	< 1,000	
Capital Cost	\$101.1 - \$116.3	in Millions of 2005\$
Annual Operating Cost	\$1.5	in Millions of 2005\$
Travel Time & Reliability	Medium	
Connectivity & Integration	High	# transit routes: 3 ST (including Sounder)
Land Use & Development	High	
Customer Experience	High	
Risk Avoidance	High	

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Key Issues and Benefits

Issues:

- Duplication by this service with ST Express route 592 would permit elimination of this route, resulting in offsetting reduction in bus operating costs.
- Potential for demand from Thurston County to eventually exceed planned park-and-ride capacity at DuPont.

Benefits:

- Provides extended regional commuter rail service between southwest Pierce County, downtown Seattle, and locations in between.
- Builds on major investment in rail infrastructure, stations, parking, right-of-way and rolling stock implemented under *Sound Move*.