

## Express Bus: Transit Signal Priority, Left Turn lane, and Route 560 Modification to Improve Access to Sounder Tukwila Station

Project Number	S13
Subarea	South King
Primary Mode Impacted	ST Express
Facility Type	ST Express Service
Version Number	2.0
Date Last Modified	5/12/2006

*Project Locator Map*



### Short Project Description

Provide ST Express access to Southcenter and Tukwila Sounder Station. Project costs include access improvements at Tukwila Station.

#### Project Purpose:

To provide ST Express service between West Seattle, Burien, SeaTac, Southcenter, Sounder Tukwila Station, downtown Renton, and downtown Bellevue.

### Cost, Schedule and Project Metrics

#### Cost (In Millions of 2005\$)

	Low	High
Agency Admin	\$0.8	\$0.9
Environmental Clearance and PE	\$0.2	\$0.2
Final Design, Specs, Permitting	\$0.2	\$0.2
ROW Acquisition	\$10.0	\$11.5
Construction	\$1.6	\$1.9
Vehicles	\$0.0	\$0.0
Contingency	\$1.2	\$1.4
<b>Total</b>	<b>\$14.0</b>	<b>\$16.1</b>

#### Schedule

**Proposed  
Schedule Not Yet Developed**

#### Design Basis

Conceptual

#### Cost (Capital; in Millions)

Buses	\$5.5	\$5.5
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\* based on \$500K per bus

<b>Total Capital</b>	<b>\$19.5</b>	<b>\$21.6</b>
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#### Cost (Annual Operating; in Millions)

Annual Operating Cost	<b>\$2.6</b>
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### Environmental Documentation Required

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

### Relationships to Other Projects

Relationship	Project
Dependent on	Related improvements for bus access at Tukwila Station (Project S17 and Strander Boulevard extension) should complement this project.

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## Project Partners

### Agency

City of Tukwila	
KC Metro	

## 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:

Route 560, operating between West Seattle and downtown Bellevue, will be realigned to serve two locations in Tukwila. One is Southcenter Mall and the second is Tukwila Station. Service in peak periods will be improved from 30 minute to 15 minute headways. The route's access to Tukwila Station will be supported by TSP improvements in Tukwila.

### Project Elements Included - Service

#### Headways

Weekday: AM peak 15 min / Midday 30 min / PM peak 15 min / Evening 60 min / Night 60 min

Saturday & Sunday: day 60 min / Evening 60 min

#### Additional Bus Needs

Peak Buses: 9

Midday Buses: 1

Spares: 2

Total Buses: 11

Annual Service Hours: 26,000

### Project Elements Included - Capital

Construct a second southbound left turn lane at the intersection of Strander Blvd. at Andover Pkwy. W, including complementary changes to the south leg of the intersection. This will include right-of-way acquisition, paving, striping, curb, gutter, sidewalk, signal modifications, illumination, relocation of underground utilities, drainage, and landscaping.

Install TSP for ST Express transit movements at the following three intersections:

- Tukwila Pkwy. at Andover Pkw W
- Strander Blvd. at Andover Pkwy W
- Strander Blvd. at West Valley Highway

Transit Signal Priority projects include the following:

- Signal timing study
- Design and engineering costs
- Controller and controller foundation replacement
- Conduit installation to detector locations
- All TSP equipment

### Utilities:

Relocation of underground utilities, drainage as needed to complete the project. Assume approximately 200 linear feet back from the intersection of Strander Blvd. at Andover Pkwy in north and south directions.

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### Right-of-Way and Property Acquisition:

Due to existing buildings on the NW and SW quadrants, widening will occur on the east side of the intersection. Assume approximately 200 linear feet back from the intersection of Strander Blvd. at Andover Pkwy in north and south directions. Widen by approximately 12 feet to add the additional lane. Additional 50% included in right-of-way cost estimate for parking mitigation for parcel on NE quadrant of intersection, which has limited parking.

### Mitigation

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

### Exclusions

Widening in the west leg of the intersection of Strander Blvd. at West Valley Highway. It is assumed that any widening at this intersection will occur as part of the Strander Blvd. extension, which is a City of Renton project (not part of this project). Expenses for any annual or periodic operating and maintenance of the new facilities; others (e.g. city, county, etc.) will incur these costs.

### Permits Required:

Electrical, utility, and construction-related, BNSF

### Agreements Required:

Agreement with King County Metro and City of Tukwila for operation of TSP, BNSF.

*ST has developed scope definitions for ST2 project proposals for the purposes of developing cost estimates, implementation schedules, a financial plan, and the estimation of project benefits. This scope definition should not be construed as a commitment that all defined features will be included in the final developed project.*

## Evaluation Measures

Measure	Measurement/ Rating	Notes
Average Weekday Ridership	N/A	
Capital Cost	\$19.5 - \$21.6	in Millions of 2005\$
Annual Operating Cost	\$2.6	in Millions of 2005\$
Travel Time & Reliability	Low	
Connectivity & Integration	Medium	# transit routes: 1 ST (including Sounder), 3 Metro
Land Use & Development	High	
Customer Experience	Medium	
Risk Avoidance	High	

## Key Issues and Benefits

### Issues:

- Serving Tukwila increases overall travel time for Route 560.
- Routing to access/egress Tukwila to/from west may be circuitous.

### Benefits:

- Provides new ST Express bus service to Tukwila urban center (Southcenter) and Tukwila Station by rerouting existing service on Route 560
- TSP treatments provide Improved speed and reliability for ST Express and KC Metro routes serving Tukwila Station.