

# I-405 Renton to Bellevue Widening and Express Toll Lanes Project

## Project Overview

The Renton to Bellevue project will add new capacity to create a two-lane express toll lane system between SR 167 in Renton and Northeast 6th Street in Bellevue. This project will connect a 40-mile system of express toll lanes that improves speeds and trip reliability for all travelers and supports the new I-405 Bus Rapid Transit system included in the Sound Transit 3 package.

## Project Goals

- 1. Minimize Impacts** - Develop and implement a design-build project that reduces, minimizes, or eliminates construction and traffic related impacts on I-405 and to the adjacent communities and businesses.
- 2. Collaboration** - Provide a successful design-build project by collaborating with WSDOT, the Toll Vendor, key stakeholders, and local communities to resolve issues at the Project level.
- 3. Smooth Toll-System Rollout** - Provide an efficient, comprehensive rollout plan for the express toll lane system in coordination with WSDOT's Toll Vendor. This plan should minimize traffic impacts during rollout of the toll system.
- 4. Effective Start-Up and Close-Out, and Quality Management** - Plan and deliver a successful design-build project. This plan should:
  - Meet or exceed all contract requirements to start the project as smoothly as possible
  - Follow a plan to close out the project within the contract requirements
  - Develop and administer a project Quality Management Plan that ensures the work meets or exceeds the contract requirements and is appropriately staffed to do so.

## Procurement Schedule

Request for Qualifications (RFQ)	Aug. 15, 2018
Request for Proposal (RFP)	Jan. 7, 2019
Bid opening/Apparent Best Value	Aug. 15, 2019
Construction Start	Fall 2019
Open to Traffic	May-July 2023 or 2024



*Project limits: I-5 in Tukwila to NE 6th Street in Bellevue*

**Design-Build Contract Amount: \$710M**

## Key Personnel

- Project Manager
- Construction Manager
- Design Manager
- Inclusion Manager

## For More Information

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## Current Project Scope

### Non-motorized trail

#### First item of work, completion by December 2020

- Realign and reconstruct the existing Lake Washington Trail (MP 7.7 – MP 10.2) west of its current location to reside within the Eastside Rail Corridor from Ripley Lane in Renton to Coal Creek Parkway in Bellevue.
- Build a new Eastside Rail Corridor regional trail bridge over southbound I-405 at Wilburton.

### Express toll lanes

- Widen I-405 from north of SR 167 to just south of NE 6th Street (MP 2.5-13.7) to accommodate an additional lane both northbound and southbound. The additional lane will be paired with the existing northbound and southbound HOV lane to create two Express Toll Lanes (ETLs).

### Auxiliary lanes

- Construct a southbound I-405 auxiliary lane between NE 44th Street on-ramp and NE 30th Street off-ramp.
- Extend one of the southbound I-405 auxiliary lanes that currently starts at the I-90 on-ramp to end farther south at the 112th Avenue SE off-ramp.

### Bridges and structures

- Reconstruct local road overpasses at Cedar Avenue, Renton Avenue and Main Street to accommodate added I-405 lanes.
- Widen I-405 bridge structures over the Cedar River, NE Park Drive, Sunset Boulevard and SE 8th Street.
- Build a new northbound I-405 bridge structure over the Eastside Rail Corridor adjacent to the existing I-405 structure.

### Major interchange work

- Replace the 112th Avenue SE Interchange bridge structure over I-405.
- NE 44th Street Interchange: Replace the northbound and southbound I-405 bridge structures over May Creek. Replace the NE 44th Street bridge structure over I-405 and reconstruct the interchange. Construct new direct access ramps in the I-405 median. Realign and reconstruct Lake Washington Boulevard between NE 44th Street and SE 76th Street, and realign the northbound on-ramp to I-405 to connect to Lake Washington Boulevard. Local intersections will be roundabout controlled.

### Ramp reconfigurations

- Reconfigure the southbound I-405 to eastbound I-90 ramp from one lane to two lanes. Realign the northbound I-405 to eastbound I-90 ramp.
- Widen the existing northbound I-405 to SR 520 ramp from two lanes to three lanes.

### Environmental and other enhancements

- Construct two fish passage crossings under NE 44th Street and under I-405 for UNT 08.LW.0283 (formerly referred to as Gypsy Creek). Construct a fish passage crossing under I-405 for Streams 7.7A, 7.8, 8.15 and 10.0. Construct fish passages crossings under ERC for Stream 9.8 and 9.9.
- Construct new noise walls and relocate two existing noise walls.
- Construct stormwater management and water quality facilities.
- Other improvements will include pavement markings, permanent signing, illumination, intelligent transportation systems, barriers, and tolling gantries.

### Potential added scope

- Construct direct access ramps at 112th Avenue SE interchange.

## Quantities and Cost

ITEMS (APPROX. % OF CONSTRUCTION COST)	UNITS	APPROX. QUANTITY
<b>EARTHWORK (5-10%)</b>		
Excavation	CY	500,000
Common borrow	CY	800,000
<b>PAVEMENT (5-10%)</b>		
PCCP	CY	5,000
HMA	Tons	350,000
HMA overlay	Tons	50,000
Sidewalks	SF	85,000
<b>DRAINAGE (5-10%)</b>		
Conveyance	Miles	10
Stormwater treatment	Acres	125
<b>SPECIALTY ITEMS (10-15%)</b>		
Retaining walls (cut section)	SF	180,000
Retaining walls (fill section)	SF	775,000
Noise walls	SF/LF	130,000/10,250
Culverts for fish passage	EA	10
Trenchless technology stormwater conveyance	LF	~5,500
<b>TRAFFIC ITEMS (10-15%)</b>		
Sign structures	EA	60
Toll point structures	EA	25
<b>STRUCTURES (10-15%)</b>		
New bridges	EA	13
Bridge widening	SF	25,000