I-405 Express Toll Lanes

36 Month Update

Edward Barry, P.E. Toll Division Director
January 23, 2019
Completing the 40-mile corridor

Completed Toll System Projects
✓ I-405 Bellevue to Lynnwood Express Toll Lanes (2015)
✓ SR 167 High Occupancy Toll (HOT) Lanes (Extension 2016)

Future/Ongoing Toll System Projects
✓ I-405/SR 167 Interchange Direct Connector (2019)

- I-405 SR 522 to SR 527 Capacity Improvements
  • Legislature authorized $20 million for preliminary engineering
  • $20 million for right of way included in Governor’s FY19-21 budget
  • Approximately $450 million needed for construction

- I-405 Renton to Bellevue Widening & Express Toll Lanes
  • Construction to begin in 2019
  • Open to traffic in 2024
• As the population of the Puget Sound region grows, so does the number of vehicles on the road.

• On average, up to **23 percent** more vehicles move through the corridor during peak periods each weekday than before tolling began.
Performance update

Average corridor speeds

- From July to September 2018, the express toll lanes moved vehicles traveling the full length of the express toll lanes an average 16 mph faster than the general purpose lanes during the southbound morning peak period, and 21 mph faster during the northbound afternoon peak period.

Average corridor speeds, peak period, July-September 2018

<table>
<thead>
<tr>
<th>Route</th>
<th>General Purpose</th>
<th>ETLs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bellevue to Bothell</td>
<td>25 mph</td>
<td>52 mph</td>
</tr>
<tr>
<td>Bothell to Lynnwood</td>
<td>40 mph</td>
<td>54 mph</td>
</tr>
<tr>
<td>Lynnwood to Bothell</td>
<td>26 mph</td>
<td>42 mph</td>
</tr>
<tr>
<td>Bothell to Bellevue</td>
<td>42 mph</td>
<td>59 mph</td>
</tr>
</tbody>
</table>
General purpose speed performance update

General Purpose Lanes
- Speeds are faster in each section since the express toll lanes opened, with the exception of the southbound single lane section. As shown in the table below, speeds in the northbound single lane section from Bothell to Lynnwood increased dramatically since the peak-use shoulder lane opened in 2017.

<table>
<thead>
<tr>
<th>Route</th>
<th>Pre-Tolling</th>
<th>Summer 2016</th>
<th>Summer 2017</th>
<th>Summer 2018</th>
<th>Speed difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bellevue to Bothell</td>
<td>24 mph</td>
<td>28 mph</td>
<td>32 mph</td>
<td>25 mph</td>
<td>+1 mph</td>
</tr>
<tr>
<td>Bothell to Lynnwood</td>
<td>35 mph</td>
<td>27 mph</td>
<td>46 mph</td>
<td>40 mph</td>
<td>+5 mph</td>
</tr>
<tr>
<td>Lynnwood to Bothell</td>
<td>28 mph</td>
<td>26 mph</td>
<td>25 mph</td>
<td>26 mph</td>
<td>-2 mph</td>
</tr>
<tr>
<td>Bothell to Bellevue</td>
<td>36 mph</td>
<td>44 mph</td>
<td>43 mph</td>
<td>42 mph</td>
<td>+6 mph</td>
</tr>
</tbody>
</table>
I-5 and I-405 peak hour performance comparison

I-5 (Northbound at NE 130th St)
Daily Volume: 105,000

I-405 (Northbound at NE 85th St)
Daily Volume: 107,000

Tuesday, July 12, 2017 4:50 p.m.
Tuesday, July 25, 2017 4:30 p.m.
Express toll lanes move more vehicles

I-405 section with dual express toll lanes moves more vehicles than five-lane I-5 sections with similar daily traffic volumes

Vehicle volumes
- GP
- HOV
- ETL
Transit benefits

• Since the express toll lanes opened in Sept. 2015, transit ridership has increased by an average five percent on I-405.
• During the summer 2018 quarter, an average 7,700 people used transit routes on the express toll lanes every day.
• WSDOT works with King County Metro and Community Transit to monitor transit performance on the I-405 express toll lanes.

*Route 424 that travels along I-405 between SR 520 and SR 522 is the only route to show a travel time increase, but reports travel times over a significantly shorter distance than the other routes.
Support increases over time

In summer 2017, in advance of the two-year anniversary of the I-405 express toll lanes opening, WSDOT conducted three surveys to determine how drivers feel about the lanes.

We have seen public support increase since the express toll lanes opened in fall 2015.

These surveys included people who do not use the express toll lanes or have Good To Go! account.
Customer sentiment

WSDOT conducted a September 2018 survey of nearly 775 Good To Go! customers who have used the I-405 express toll lanes.

**Good To Go! customer survey**

- 86 percent of customers like having a choice to use the I-405 express toll lanes.
- 72 percent of people agree they save time when they use the express toll lanes.
Toll revenue continues to increase
Operational improvements

WSDOT continues to manage ongoing operations to identify ways to improve performance, including adjustments to the toll rate algorithm and collaborating with the Washington State Patrol on enforcement.

Enforcing the rules ensures fairness

Continually refining algorithm that generates toll rates to respond to demand and keep the lanes moving, with 50 algorithm adjustments to date

Examples include:

- Helping improve performance at direct access ramps NE 128th St
- Managing heavy demand northbound in two lane section

Provide options for a shorter trip at a lower rate at direct access ramps

6,225 TOTAL ENFORCEMENT HOURS FROM JULY 2017 TO JULY 2018

4,345 TOTAL NUMBER OF CITATIONS

6,935 NUMBER OF CONTACTS
Questions?

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