Transportation Operations and Intelligent Transportation Systems (ITS) Program

Dusty Rasmussen, SDOT
Levy Oversight Committee
Aug 2, 2022
Our Vision, Mission, Values, & Goals

Seattle is a thriving equitable community powered by dependable transportation. We’re on a mission to deliver a transportation system that provides safe and affordable access to places and opportunities.

Core Values & Goals: Equity, Safety, Mobility, Sustainability, Livability, and Excellence.
Signals Team Overview

• Signal operations, signal design and signal electricians
• Manage, operate and maintain over 1100 Signals
• Provide support for SDOT projects, partner agency projects, and local developer projects.
• Design signal systems and ITS systems
• Respond to constituents
• Perform traffic operations evaluations
Program Overview

Program 4 - Transportation Operations
Maintain and improve the city’s system of traffic signals, signs and markings.
• Corridors Optimized – 5 per year
• New Traffic Signals – 3 per year
• Signal Spot Improvements – 10 per year
• Traffic Spot Improvements – 10 per year
• Regulatory Street Signs Replaced – 3000 per year
• Approximately $5M annual Levy funding

Program 19 - Traffic Signal Timing Improvements
Optimize timing on 5 corridors throughout the city to improve traffic flow and serve people on cars and trucks, on bicycles, riding transit and on foot.
• Signal Major Maintenance – 5 to 15 per year
• Signal Diagnostic Evaluations - approx. 250 per year
• Signal Preventative Maintenance - approx. 775 repairs
• Approximately $2.5M annual Levy funding

Program 20 - Intelligent Transportation System Improvements
Implement Next Generation ITS Improvements to help all travelers move more reliably around the city and provide improved information for travelers.
• Miles of arterial added to ITS system - 10 miles per year, Denny Way ITS, UW MICMA
• $15.1M total Levy funding; $24.3M non-levy (Transportation Fund, Grants/Partnership, REET)
# Program 4 - Trans Ops Levy Accomplishments

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<tbody>
<tr>
<td>Corridors Optimized</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>6</td>
<td>5</td>
<td>5</td>
<td>31</td>
<td>Approx. 5</td>
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<td>New Traffic Signals</td>
<td>4</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>2</td>
<td>3</td>
<td>18</td>
<td>Approx. 3</td>
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<tr>
<td>Signal Spot Improvements</td>
<td>10</td>
<td>17</td>
<td>12</td>
<td>10</td>
<td>9</td>
<td>11</td>
<td>69</td>
<td>Approx. 10</td>
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<tr>
<td>Traffic Spot Improvements</td>
<td>11</td>
<td>10</td>
<td>14</td>
<td>14</td>
<td>10</td>
<td>10</td>
<td>69</td>
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<tr>
<td>Regulatory Street Signs Replaced</td>
<td>3,582</td>
<td>3,300</td>
<td>4,222</td>
<td>4,730</td>
<td>3,046</td>
<td>3,000</td>
<td>21,880</td>
<td>Approx. 3,000</td>
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*Plan to meet Levy target each year
## Program 19 - Traffic Signal Timing Levy Accomplishments

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<tbody>
<tr>
<td>Signal Major Maintenance</td>
<td>18</td>
<td>15</td>
<td>8</td>
<td>10</td>
<td>5</td>
<td>5</td>
<td>61</td>
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<tr>
<td>Signal Diagnostic Evaluations</td>
<td>250</td>
<td>266</td>
<td>75</td>
<td>309</td>
<td>291</td>
<td>250</td>
<td>1,441</td>
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<td>Signal Preventative Maintenance</td>
<td>807</td>
<td>786</td>
<td>750</td>
<td>799</td>
<td>775</td>
<td>775</td>
<td>4,692</td>
<td>Approx. 775</td>
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*Plan to meet Levy target each year
## Program 20 - ITS Levy Accomplishments

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<tr>
<td>Miles of arterial added to ITS System</td>
<td>9.5</td>
<td>7.8</td>
<td>28</td>
<td>22.6</td>
<td>21.46</td>
<td>11.25</td>
<td><strong>100.61</strong></td>
<td>Approx. 10 miles</td>
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*Plan to meet Levy target each year*
Key Factors:
1. Race and Social Equity Composite Index
2. High-crash corridors
3. Changes to transportation network
4. Improve transit reliability
Project Partnerships

Look to leverage opportunities with other programs
- Vision Zero
- Bike Master Plan
- Pedestrian Master Plan
- Safe Routes to School
- Transit Spot
- ADA
Corridor Optimized

1. MLK Jr Way S North of Rainier
2. 35th Ave SW and SW Roxbury St
3. University District
4. S Jackson St/12th Ave S/Rainier Ave S in the CID
5. Delridge Way SW
6. Broadway from Marion to Yesler Way S
Deliverables over the Life of the Levy

- 6th Ave/James St – Signal Spot
- NE 125th St/28th Ave NE – New Traffic Signal
- 4th Ave/University St – Signal Major Maintenance
- West Marginal Way – Fiber Optic Communications Installation
2022 Work Plan

Corridor Optimizations
• Rainier Ave from Jackson to Charles (completed Q1)
• Rainier Ave in Columbia City
  • BAT lanes just installed
• Madison St along BRT corridor
• Lake City Way
• N 46th St Phinney
2022 Work Plan

New Traffic Signals

• Roosevelt Ave NE and NE 103rd St (completed Q1)
• 1st Ave and Battery St (in construction)
• Greenwood Ave N and N 83rd St (in construction)
2022 Work Plan

Signal Spot Improvements

- Rainier Ave S/S Charles St (completed Q1)
- 15th Ave S/Oregon St (completed Q1)
- 8th Ave/Pine St (completed Q2)
- Stone Way N/Bridge Way N (in design)
2022 Work Plan

Signal Major Maintenance
- 6th Ave and University St (completed Q3)
- Rainier and Rose (in construction)

ITS
- U District Resiliency Project (Fiber Optic Communications to NE 50th St)