Kent County Transportation Operations Management Plan (TOMP)

Benefits of DE 1 Grade-Separated Intersection Projects

The DE 1 grade-separated intersection (GSI) projects have significantly reduced delay despite increases in traffic volumes.

About the Project
- To extend the expressway section of DE 1, signalized and stop controlled intersections in Little Heaven, South Frederica, and Thompsonville have been replaced with three GSIs with on- and off-ramps.
- Construction took place between fall 2015 and summer 2019. During construction, DelDOT monitored travel times in the project area and informed drivers of delays.
- These projects were born out of the Corridor Capacity Preservation Program which is aimed at maximizing the value of existing roadway infrastructure.

Fast Facts
In the study period from 2015 to 2019:
- Daily traffic on DE 1 increased 14%, but peak-period travel times and reliability improved because the new interchanges increased capacity.
- The crash rate decreased 23%, and the number of crashes resulting in an injury or fatality decreased 58%.

<table>
<thead>
<tr>
<th>Southbound Summer Saturday</th>
<th>Northbound Summer Sunday</th>
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</thead>
<tbody>
<tr>
<td>2015 Peak Delay: 27 minutes</td>
<td>2015 Peak Delay: 8 minutes</td>
</tr>
<tr>
<td>2019 Peak Delay: 5 minutes</td>
<td>2019 Peak Delay: 6 minutes</td>
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</tbody>
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Travelers saved 22 minutes

Travelers saved 2 minutes