Appendix H: 2040 No Build Intersection Peak Hour Traffic Volumes
I-395 EXPRESS LANES
NORTHERN EXTENSION

LEGEND

INSET NUMBER
EXISTING INTERSECTION NUMBER
FUTURE INTERSECTION NUMBER

2040 No Build AM (PM) Peak Hour Volumes
Sheet 3 of 6
Appendix I: 2040 No Build Conditions Speed and Density Maps
No Build Conditions: Speeds

AM Peak Period

<table>
<thead>
<tr>
<th>Time</th>
<th>Average Speed (mph)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:00 - 7:00 AM</td>
<td>&lt; 25</td>
</tr>
<tr>
<td>7:00 - 8:00 AM</td>
<td>25 - 35</td>
</tr>
<tr>
<td>8:00 - 9:00 AM</td>
<td>35 - 45</td>
</tr>
<tr>
<td>9:00 - 10:00 AM</td>
<td>&gt; 45</td>
</tr>
</tbody>
</table>

General Purpose Lanes
HOV/HOT Lanes
No Build Conditions: Speeds
AM Peak Period

Virginia Department of Transportation
I-395 Express Lanes
VDOT Project No. 0395-869-200, P181, UPC 108313

Average Speed (mph)

<table>
<thead>
<tr>
<th>General Purpose Lanes</th>
<th>HOV/HOT Lanes</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 25</td>
<td></td>
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<tr>
<td>25 - 35</td>
<td></td>
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<tr>
<td>35 - 45</td>
<td></td>
</tr>
<tr>
<td>45 - 55</td>
<td></td>
</tr>
<tr>
<td>&gt; 55</td>
<td></td>
</tr>
</tbody>
</table>

Southbound
Northbound
No Build Conditions: Speeds
AM Peak Period

AM Peak Period

Average Speed (mph)

- < 25
- 25 - 35
- 35 - 45
- 45 - 55
- > 55

General Purpose Lanes
HOV/HOT Lanes
### No Build Conditions: Speeds

**AM Peak Period**

<table>
<thead>
<tr>
<th>Average Speed (mph)</th>
<th>General Purpose Lanes</th>
<th>HOV/HOT Lanes</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 25</td>
<td></td>
<td></td>
</tr>
<tr>
<td>25 - 35</td>
<td></td>
<td></td>
</tr>
<tr>
<td>35 - 45</td>
<td></td>
<td></td>
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<tr>
<td>45 - 55</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; 55</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Southbound**

- Potomac River

**Northbound**

- Potomac River

---

Virginia Department of Transportation
I-395 Express Lanes
VDOT Project No. 0395-969-20, P101, UPC 108313

All Analysis Hours:
- 9:00 - 10:00 AM
- 6:00 - 7:00 AM
- 7:00 - 8:00 AM
- 8:00 - 9:00 AM
- 7:00 - 8:00 AM

AM Peak Hour:
- 9:00 - 10:00 AM
- 8:00 - 9:00 AM
- 7:00 - 8:00 AM
- 6:00 - 7:00 AM

---

Text

Fairfax
Alexandria
Arlington
District of Columbia
No Build Conditions: Speeds
PM Peak Period

Average Speed (mph)

- < 25
- 25 - 35
- 35 - 45
- 45 - 55
- > 55

Southbound

Northbound

Virginia Department of Transportation
I-395 Express Lanes
VDOT Project No. 0395-869-200, P161, UPC 108313

ExpressLanes

PM Peak Period
5:00 - 6:00 PM

PM Peak Hour
6:00 - 7:00 PM

5:00 - 6:00 PM
4:00 - 5:00 PM
3:00 - 4:00 PM
All Analysis Hours
6:00 - 7:00 PM
5:00 - 6:00 PM
4:00 - 5:00 PM
3:00 - 4:00 PM
All Analysis Hours
No Build Conditions: Speeds
PM Peak Period

Average Speed (mph)
- < 25
- 25 - 35
- 35 - 45
- 45 - 55
- > 55

General Purpose Lanes
HOV/HOT Lanes

10:00 AM
11:00 AM
12:00 PM
1:00 PM
2:00 PM
3:00 PM
4:00 PM
5:00 PM
6:00 PM
7:00 PM
8:00 PM
9:00 PM
10:00 PM

Northbound

Southbound
No Build Conditions: Speeds
PM Peak Period

Average Speed (mph)
- < 25
- 25 - 35
- 35 - 45
- 45 - 55
- > 55

General Purpose Lanes
HOV/HOT Lanes

Southbound
Northbound
No Build Conditions: Density

AM Peak Period

Average Density (veh/mi/ln)

- < 18
- 18 - 26
- 26 - 35
- 35 - 45
- > 45

Virginia Department of Transportation
I-395 Express Lanes
VDOT Project No. 0395-969-205, P191, UPC 108313
No Build Conditions: Density
AM Peak Period

<table>
<thead>
<tr>
<th>All Analysis Hours</th>
<th>6:00 - 7:00 AM</th>
<th>7:00 - 8:00 AM</th>
<th>8:00 - 9:00 AM</th>
<th>9:00 - 10:00 AM</th>
</tr>
</thead>
<tbody>
<tr>
<td>AM Peak Hour</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Average Density (veh/mln)
- < 18
- 18 - 26
- 26 - 35
- 35 - 45
- > 45

General Purpose Lanes
HOV/HOT Lanes
No Build Conditions: Density

AM Peak Period

Page 3 of 5

Average Density (veh/mi/ln)

- < 18
- 18 - 26
- 26 - 35
- 35 - 45
- > 45

General Purpose Lanes
HOV/HOT Lanes

Virginia Department of Transportation
I-395 Express Lanes
VDOT Project No. 0395-969-205, P181, UPC 108313

No Build Conditions: Density

AM Peak Period
No Build Conditions: Density
AM Peak Period

- **AM Peak Period**
  - All Analysis Hours
    - 6:00 - 7:00 AM
    - 7:00 - 8:00 AM
    - 8:00 - 9:00 AM
- **AM Peak Hour**
  - 9:00 - 10:00 AM

- **Southbound**
- **Northbound**

### Average Density (veh/mi/ln)
- **< 18**
- **18 - 26**
- **26 - 35**
- **35 - 45**
- **> 45**

**Legend**:
- General Purpose Lanes
- HOV/HOT Lanes

---

Virginia Department of Transportation
I-395 Express Lanes
VDOT Project No. 0395-869-205, P181, UPC 108313

Page 4 of 5
No Build Conditions: Density

AM Peak Period

Average Density (veh/mi/ln)

Southbound

- < 18
- 18 - 26
- 26 - 35
- 35 - 45
- > 45

Northbound

Virginia Department of Transportation
I-395 Express Lanes
VDOT Project No. 0395-969-205, P181, UPC 108313

General Purpose Lanes
HOV/HOT Lanes

Legend

Potomac River
No Build Conditions: Density
PM Peak Period

Southbound

Northbound

Average Density (veh/mi/ln)

- < 18
- 18 - 26
- 26 - 35
- 35 - 45
- > 45

General Purpose Lanes
HOV/HOT Lanes

PM Peak Period
5:00 - 6:00 PM
PM Peak Hour
6:00 - 7:00 PM
5:00 - 6:00 PM
4:00 - 5:00 PM
3:00 - 4:00 PM
All Analysis Hours
6:00 - 7:00 PM
5:00 - 6:00 PM
4:00 - 5:00 PM
3:00 - 4:00 PM
All Analysis Hours
No Build Conditions: Density
PM Peak Period

Virginia Department of Transportation
I-395 Express Lanes
VDOT Project No. 0395-869-205, P161, UPC 108313

Average Density (veh/mi/ln)
- < 18
- 18 - 26
- 26 - 35
- 35 - 45
- > 45

General Purpose Lanes
HOV/HOT Lanes
No Build Conditions: Density
PM Peak Period

Southbound

Northbound

Average Density (veh/mi/ln)

- < 18
- 18 - 26
- 26 - 35
- 35 - 45
- > 45

General Purpose Lanes
HOV/HOT Lanes

Virginia Department of Transportation
I-395 Express Lanes
VDOT Project No. 0395-869-205, P161, UPC 108313
No Build Conditions: Density
PM Peak Period

PM Peak Period
5:00 - 6:00 PM
6:00 - 7:00 PM
5:00 - 6:00 PM
4:00 - 5:00 PM
3:00 - 4:00 PM

All Analysis Hours
6:00 - 7:00 PM
5:00 - 6:00 PM
4:00 - 5:00 PM
3:00 - 4:00 PM

Southbound
Northbound

Average Density (veh/mi/ln)
< 18
18 - 26
26 - 35
35 - 45
> 45

General Purpose Lanes
HOV/HOT Lanes

Virginia Department of Transportation
I-395 Express Lanes
VDOT Project No. 0395-969-200, P181, UPC 108313

Southbound
Northbound

No Build Conditions: Density
PM Peak Period

Page 4 of 5
Appendix J: 2040 Build Intersection Peak Hour Traffic Volumes
Appendix K: 2040 Build Conditions Speed and Density Maps
## Build Conditions: Speeds
### AM Peak Period

Virginia Department of Transportation  
I-395 Express Lanes  
VDOT Project No. 0395-869-206, P101, UPC 108313

### Average Speed (mph)

<table>
<thead>
<tr>
<th>Speed Range</th>
<th>Southbound</th>
<th>Northbound</th>
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</thead>
<tbody>
<tr>
<td>&lt; 25</td>
<td></td>
<td></td>
</tr>
<tr>
<td>25 - 35</td>
<td></td>
<td></td>
</tr>
<tr>
<td>35 - 45</td>
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</tr>
<tr>
<td>45 - 55</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; 55</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### General Purpose Lanes  
HOV/HOT Lanes

---

**Legend:**
- **< 25**
- **25 - 35**
- **35 - 45**
- **45 - 55**
- **> 55**

---

**Northbound**

---

**Southbound**

---

**Build Conditions:**
- **AM Peak Period**
- **AM Peak Hour**
- **All Analysis Hours**

---

**Maps:**
- [Southbound Map](#)
- [Northbound Map](#)

---

**Sources:**
- Virginia Department of Transportation
- I-395 Express Lanes
Build Conditions: Speeds
AM Peak Period

All Analysis Hours
6:00 - 7:00 AM
7:00 - 8:00 AM
8:00 - 9:00 AM
9:00 - 10:00 AM

AM Peak Hour
9:00 - 10:00 AM
8:00 - 9:00 AM
7:00 - 8:00 AM
6:00 - 7:00 AM

Southbound

Virginia Department of Transportation
I-395 Express Lanes
VDOT Project No. 0395-869-200, P181, UPC 108313

Average Speed (mph)
< 25
25 - 35
35 - 45
45 - 55
> 55

General Purpose Lanes
HOV/HOT Lanes

Northbound
Build Conditions: Speeds
AM Peak Period

Average Speed (mph)
- < 25
- 25 - 35
- 35 - 45
- 45 - 55
- > 55

General Purpose Lanes
HOV/HOT Lanes
Build Conditions: Speeds
AM Peak Period

Average Speed (mph)
- < 25
- 25 - 35
- 35 - 45
- 45 - 55
- > 55

General Purpose Lanes
HOV/HOT Lanes
Virginia Department of Transportation
I-395 Express Lanes
VDOT Project No. 0395-860-200, P181, UPC 108313

Build Conditions: Speeds
AM Peak Period

Average Speed (mph)

- < 25
- 25 - 35
- 35 - 45
- 45 - 55
- > 55

General Purpose Lanes
HOV/HOT Lanes

Virginia Department of Transportation
I-395 Express Lanes
VDOT Project No. 0395-860-200, P181, UPC 108313
Build Conditions: Speeds

PM Peak Period

Virginia Department of Transportation
I-395 Express Lanes
VDOT Project No. 0395-869-205, P101, UPC 108313

Average Speed (mph)

<table>
<thead>
<tr>
<th>Speed Range</th>
<th>General Purpose Lanes</th>
<th>HOV/HOT Lanes</th>
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<tbody>
<tr>
<td>&lt; 25</td>
<td></td>
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<tr>
<td>25 - 35</td>
<td></td>
<td></td>
</tr>
<tr>
<td>35 - 45</td>
<td></td>
<td></td>
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<tr>
<td>45 - 55</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; 55</td>
<td></td>
<td></td>
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</tbody>
</table>

PM Peak Period

5:00 - 6:00 PM

PM Peak Hour

6:00 - 7:00 PM

All Analysis Hours

5:00 - 6:00 PM

4:00 - 5:00 PM

3:00 - 4:00 PM

All Analysis Hours
Build Conditions: Speeds
PM Peak Period

Average Speed (mph)

- < 25
- 25 - 35
- 35 - 45
- 45 - 55
- > 55
Build Conditions: Speeds
PM Peak Period

<table>
<thead>
<tr>
<th>Average Speed (mph)</th>
<th>General Purpose Lanes</th>
<th>HOV/HOT Lanes</th>
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</thead>
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<tr>
<td>&lt; 25</td>
<td>Red</td>
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</tr>
<tr>
<td>25 - 35</td>
<td>Orange</td>
<td>Green</td>
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<tr>
<td>35 - 45</td>
<td>Yellow</td>
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<td>Green</td>
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<tr>
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<td>Dark Green</td>
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Virginia Department of Transportation
I-395 Express Lanes
VDOT Project No. 0395-869-200, P181, UPC 108313

All Analysis Hours

- PM Peak Hour: 4:00 - 5:00 PM
- PM Peak Period: 5:00 - 7:00 PM
Build Conditions: Speeds
PM Peak Period

Average Speed (mph)

- < 25
- 25 - 35
- 35 - 45
- 45 - 55
- > 55

General Purpose Lanes
HOV/HOT Lanes

Virginia Department of Transportation
I-395 Express Lanes
VDOT Project No. 0395-869-205, P161, UPC 108313
**Build Conditions: Speeds**

**PM Peak Period**

<table>
<thead>
<tr>
<th>Average Speed (mph)</th>
<th>General Purpose Lanes</th>
<th>HOV/HOT Lanes</th>
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<tbody>
<tr>
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<td>25 - 35</td>
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<td>35 - 45</td>
<td></td>
<td></td>
</tr>
<tr>
<td>45 - 55</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; 55</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**PM Peak Hour**

- **Southbound**
  - 5:00 - 6:00 PM
  - 6:00 - 7:00 PM
- **Northbound**
  - 5:00 - 6:00 PM
  - 6:00 - 7:00 PM

---

Virginia Department of Transportation
I-395 Express Lanes
VDOT Project No. 0395-869-200, P181, UPC 108313

Page 5 of 5
Build Conditions: Density
AM Peak Period

Average Density (veh/mi/ln)

- < 18
- 18 - 26
- 26 - 35
- 35 - 45
- > 45

General Purpose Lanes
HOV/HOT Lanes
Build Conditions: Density

AM Peak Period

Average Density (veh/mi/ln)

- < 18
- 18 - 26
- 26 - 35
- 35 - 45
- > 45

General Purpose Lanes
HOV/HOT Lanes

Virginia Department of Transportation
I-395 Express Lanes
VDOT Project No. 0395-869-205, P161, UPC 108313

Southbound

Northbound
Build Conditions: Density

AM Peak Period

Northbound

Southbound

Average Density (veh/mi/ln)

< 18
18 - 26
26 - 35
35 - 45
> 45

General Purpose Lanes
HOV/HOT Lanes
Build Conditions: Density
AM Peak Period

Average Density (veh/mi/ln)
- < 18
- 18 - 26
- 26 - 35
- 35 - 45
- > 45

General Purpose Lanes
HOV/HOT Lanes
### Build Conditions: Density
**AM Peak Period**

<table>
<thead>
<tr>
<th>Average Density (veh/mi/ln)</th>
<th>General Purpose Lanes</th>
<th>HOV/HOT Lanes</th>
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<tbody>
<tr>
<td>&lt; 18</td>
<td>&lt; 18</td>
<td>&lt; 18</td>
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<tr>
<td>18-26</td>
<td>18-26</td>
<td>18-26</td>
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<tr>
<td>26 - 35</td>
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<td>35 - 45</td>
<td>35 - 45</td>
<td>35 - 45</td>
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<tr>
<td>&gt; 45</td>
<td>&gt; 45</td>
<td>&gt; 45</td>
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<tr>
<td>Time Period</td>
<td>Average Density (veh/mi/ln)</td>
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<tr>
<td>-----------------</td>
<td>-----------------------------</td>
<td></td>
</tr>
<tr>
<td>PM Peak Period</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5:00 - 6:00 PM</td>
<td>&lt; 18</td>
<td></td>
</tr>
<tr>
<td>6:00 - 7:00 PM</td>
<td>18 - 26</td>
<td></td>
</tr>
<tr>
<td>7:00 - 8:00 PM</td>
<td>26 - 35</td>
<td></td>
</tr>
<tr>
<td>8:00 - 9:00 PM</td>
<td>35 - 45</td>
<td></td>
</tr>
<tr>
<td>9:00 - 10:00 PM</td>
<td>&gt; 45</td>
<td></td>
</tr>
</tbody>
</table>

**Southbound**

**Northbound**
Build Conditions: Density
PM Peak Period

Virginia Department of Transportation
I-395 Express Lanes
VDOT Project No. 0395-869-205, P181, UPC 108313

Average Density (veh/mi/ln)

- < 18
- 18 - 26
- 26 - 35
- 35 - 45
- > 45

General Purpose Lanes
HOV/HOT Lanes
Build Conditions: Density
PM Peak Period
Page 3 of 5

- General Purpose Lanes
- HOV/HOT Lanes

Average Density (veh/mi/ln)
- < 18
- 18 - 26
- 26 - 35
- 35 - 45
- > 45

Virginia Department of Transportation
I-395 Express Lanes
VDOT Project No. 0395-969-205, P181, UPC 108313

Southbound

Northbound
Build Conditions: Density
PM Peak Period

Average Density (veh/mi/ln)
- < 18
- 18 - 26
- 26 - 35
- 35 - 45
- > 45

General Purpose Lanes
HOV/HOT Lanes