AM Peak - EB Passing Lane Analysis

<table>
<thead>
<tr>
<th>Scenario</th>
<th>LOS</th>
<th>PTSF</th>
<th>v/s Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Lane Highway (Existing)</td>
<td>C</td>
<td>43.7</td>
<td>0.95</td>
</tr>
<tr>
<td>2-Lane Highway w/ EB Passing Lane</td>
<td>B</td>
<td>49.0</td>
<td>0.96</td>
</tr>
<tr>
<td>Multilane</td>
<td>A</td>
<td>-</td>
<td>2.14</td>
</tr>
</tbody>
</table>

PM Peak - WB Passing Lane Analysis

<table>
<thead>
<tr>
<th>Scenario</th>
<th>LOS</th>
<th>PTSF</th>
<th>v/s Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Lane Highway (Existing)</td>
<td>D</td>
<td>70</td>
<td>0.41</td>
</tr>
<tr>
<td>2-Lane Highway w/ WB Passing Lane</td>
<td>C</td>
<td>55</td>
<td>0.39</td>
</tr>
<tr>
<td>Multilane</td>
<td>A</td>
<td>-</td>
<td>0.09</td>
</tr>
</tbody>
</table>
Samara Avenue - Option A: Intersection Improvements

Potential Signalized Intersection when Warranted

Hansina Avenue - Option A: Intersection Improvements

Potential Signalized Intersection when Warranted

Caspian Avenue - Option A: Intersection Improvements

Traffic signal note: Based on current SDDOT Access Classification, either Samara Avenue or Kasan Avenue may be signalized in the future when warranted.

US14 in Volga Concepts
Samara Avenue, Hansina Avenue, Kasan Avenue, and Caspian Avenue Intersection Improvements

US14 / US14B Corridor Study
Brookings, SD

Legend
- Proposed Roadway
- Colored Concrete Boulevard
- 8’ Shared Use Path
- Curb and Gutter
- Existing ROW / Property Line
- ROW Acquisition
- Intersection Control
- Access Management

Scale in Feet

0 100 200
Figure
US14 / US14B Corridor Study
Brookings, SD

Legend
- Proposed Roadway
- Colored Concrete Boulevard
- 8' Shared Use Path
- Curb and Gutter
- Existing ROW / Property Line
- ROW Acquisition
- Intersection Control
- Access Management

Alternative Access Connections - Option A:
Samara Avenue Rearage Connection

Bicycle/Pedestrian Access - Option A:
Shared-use Path (north side)

Bicycle/Pedestrian Access - Option A:
Shared-use Path (south side)

US14 in Volga Concepts
Access Management
Intersection Control
ROW Acquisition
Bicycle/Pedestrian Access
Alternative Access Connections
US14 / US14B Corridor Study
Brookings, SD