Zooming to México on the Siempre Viva Bridge

SB Consultants | Design Team S7

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SB Consultants will work with Caltrans to design a two-span cast-in-place prestressed (CIP-PS) concrete bridge over the State Route 11 to enhance San Diego-Baja California mobility and cut border wait times.

Minimum Vertical Clearance
Minimum Required Lanes
Minimum Superstructure Depth
Load Combination Limit States

Comparative Costs

<table>
<thead>
<tr>
<th>Section</th>
<th>Span Range</th>
<th>Cost Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wide Flange Girder</td>
<td>90-180 ft</td>
<td>$300-500/SF</td>
</tr>
<tr>
<td>Steel Girders</td>
<td>60-300 ft</td>
<td>$200-750/SF</td>
</tr>
<tr>
<td>CIP/PS Box Girder</td>
<td>100-250 ft</td>
<td>$200-450/SF</td>
</tr>
</tbody>
</table>

Design Methods

CT Bridge Model

General Plan (Elevation)

- Column Diameter: 5'-6"
- Girder Spacing: 9'-3"
- Column Height: 22'
- Chain Link Railing
- Span Length: 160'

General Plan (Typical Section)

- Centerline of Bridge
- 160'
- Concrete Barrier (732SW)