Index 700-041 Span Sign Structure

Design Criteria

AASHTO LRFD Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals (LRFDLTS-1); Structures Manual (SM), Volume 3, FDOT Modifications to LRFDLTS-1; Structures Manual (SM) Introduction, I.6 References; Structures Design Guidelines (SDG); FDOT Design Manual (FDM)

Design Assumptions and Limitations

The maximum span length of Span Sign Structures is 220 feet. See the notes on Index 700-041, FDM 230, FDM 261, Structures Manual (SM), Volume 3 and the SDG for additional information.

Use Index 700-041 in conjunction with Index 700-030 and the Span Sign-LRFD v1.0 Mathcad 15 computer program located on the Structures Design Programs Library website.

Plan Content Requirements

See the FDM, Chapter 325.

Complete the “Span Sign Structures Data Table”. Much of the data for inclusion in the table may be found in the Span Sign-LRFD v1.0 output. Include Design Wind Speed and soils information.
Span Sign Structures Data Table:

<table>
<thead>
<tr>
<th>SIGN#</th>
<th>STATION</th>
<th>DIMENSIONS</th>
<th>PULS</th>
<th>MEMBER SIZES</th>
<th>SPICE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>A</td>
<td>B</td>
<td>C</td>
<td>D</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ft</td>
<td>ft</td>
<td>ft</td>
<td>ft</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ALTERNATE SPICE</th>
<th>GUSSET PLATES</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA</td>
<td>TB</td>
</tr>
<tr>
<td>m</td>
<td>m</td>
</tr>
</tbody>
</table>

NOTES (Notes Date 7-01-13):
1. Work these Data Tables with Index 700-041.
2. Design Wind Speed = mph
3. Upright wall thickness given is a minimum dimension.
4. Erection is the Contractor's responsibility.
To facilitate erection, the Contractor should consider using two vertical lift points, each located near a panel point approximately 20 to 25% of the length from each end.
5. TC and FC shall include quantity and size of reinforcing steel.

FOUNDATION NOTES (Notes Date 7-01-13):
1. Design based on Bearing values tabulated by...
2. Assumptions: All Values used in design:
    Soil Type =
    Soil Layer Thickness = ft
    Soil Friction Angle = degrees
    Soil Weight = psf
    Design Water Table is ft below surface
Payment

<table>
<thead>
<tr>
<th>Item number</th>
<th>Item Description</th>
<th>Unit Measure</th>
</tr>
</thead>
<tbody>
<tr>
<td>700-4-12C</td>
<td>Overhead Static Sign Structure (F&amp;I, Span)</td>
<td>EA</td>
</tr>
</tbody>
</table>

See *Standard Plans Instruction* for *Index 700-030* for sign panel.

See the *BOE* and *Specification 700* for additional information on payment, pay item use and compensation.