### Standard Design

<table>
<thead>
<tr>
<th>Beam No.</th>
<th>Beam Type</th>
<th>No. Strand</th>
<th>Strain</th>
<th>Tensile Stress (ksi)</th>
<th>Ultimate Capacity (ft-kips)</th>
<th>Minimum Moment (ft-kips)</th>
<th>Live Load Shear (kips)</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>BBSDS-B28-24 (WITH SLAB)</td>
<td>10</td>
<td>0.6</td>
<td>2.50</td>
<td>640</td>
<td>680</td>
<td>20</td>
</tr>
</tbody>
</table>

**Design Notes:**
- Designed in accordance with AASHTO LRFD Bridge Design Specifications.
- Prestress should be used for the designed beam.
- All optional design must be furnished by a professional engineer.

**Fabrication Notes:**
- Provide constant curvature at location of stress release.
- Use low relaxation strands, each pretensioned to 75 percent of fpu.
- Where shown on this sheet, the Fabricator has the option of furnishing either the designed beam or an approved optional beam design. All optional design must be furnished by a professional engineer registered in the State of Texas.
- Provide Grade 60 reinforcing steel bars.
- Provide Class H concrete.
- Full-length debonded strands are only permitted in positions marked with a "\*" and are only permitted in positions marked with a "\*".}

### Optional Design

<table>
<thead>
<tr>
<th>Beam No.</th>
<th>Beam Type</th>
<th>No. Strand</th>
<th>Strain</th>
<th>Tensile Stress (ksi)</th>
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**Design Notes:**
- Designed in accordance with AASHTO LRFD Bridge Design Specifications.
- Prestress should be used for the designed beam.
- All optional design must be furnished by a professional engineer.

**Fabrication Notes:**
- Provide constant curvature at location of stress release.
- Use low relaxation strands, each pretensioned to 75 percent of fpu.
- Where shown on this sheet, the Fabricator has the option of furnishing either the designed beam or an approved optional beam design. All optional design must be furnished by a professional engineer registered in the State of Texas.
- Provide Grade 60 reinforcing steel bars.
- Provide Class H concrete.
- Full-length debonded strands are only permitted in positions marked with a "\*" and are only permitted in positions marked with a "\*".