

**SECTION A-A**

(With approach slab)

**BACKWALL DETAIL**

(Without approach slab)

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**GENERAL NOTES:**
- Designed according to AASHTO LRFD Bridge Design Specifications.
- See Bridge Layout for header slope and foundation type, size and length.
- See Concrete Riprap (CRR) standard sheet or Stone Riprap (SRP) standard sheet for riprap attachment.
- See applicable rail details for rail anchorage in riprap.
- Details are shown showing right forward skew. See Bridge Layout for actual skew direction.
- These plans details may be used with standard (S-10-08) only.

**MATERIAL NOTES:**
- Provide Class C concrete (f’c = 3,600 psi).
- Provide Class C (HPC) concrete (f’c = 3,600 psi) if shown elsewhere.
- Code dimensions are clear dimensions, unless noted otherwise.
- Reinforcing bar shown are shown are out-of-out of bar.

**TABLE A**

<table>
<thead>
<tr>
<th>Header Slope Type</th>
<th>Girder Type</th>
<th>Wingwall Type</th>
<th>Wingwall L/6'</th>
<th>W</th>
<th>N/W</th>
<th>T/F</th>
<th>W2</th>
<th>N/W2</th>
<th>T/F2</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:1</td>
<td>Filled</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>7.601</td>
<td>10.721</td>
<td>8.178</td>
<td>11.872</td>
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<tr>
<td>Filled</td>
<td>14 000</td>
<td>5.067</td>
<td></td>
<td>6.306</td>
<td>9.417</td>
<td>7.246</td>
<td>10.362</td>
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<tr>
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<td>4.067</td>
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<td>5.306</td>
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<tr>
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<td>3.306</td>
<td>4.615</td>
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<td>5.332</td>
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<tr>
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<td>2.983</td>
<td>2.734</td>
<td>3.554</td>
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</tbody>
</table>

**BEARING SEAT DETAIL**

(Bearing surface must be clean and free of all loose material before placing bearing pad.)

**ABUTMENTS**

**TYPE TX28 THRU TX54**

PRESTR CONC I-GIRDERS

40' ROADWAY 45° SKEW

ABG-40-45
### TABLES OF ESTIMATED QUANTITIES WITH 2:1 HEADER SLOPE

<table>
<thead>
<tr>
<th>TYPE Tx28 Girders</th>
<th>TYPE Tx34 Girders</th>
<th>TYPE Tx40 Girders</th>
<th>TYPE Tx46 Girders</th>
<th>TYPE Tx54 Girders</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bar No.</strong></td>
<td><strong>No.</strong></td>
<td><strong>Size</strong></td>
<td><strong>Length</strong></td>
<td><strong>Weight</strong></td>
</tr>
<tr>
<td>A</td>
<td>11</td>
<td>#11</td>
<td>59'-9&quot;</td>
<td>3,141</td>
</tr>
<tr>
<td>B</td>
<td>2</td>
<td>#2</td>
<td>1'-0&quot;</td>
<td>13</td>
</tr>
<tr>
<td>C</td>
<td>2</td>
<td>#2</td>
<td>7'-0&quot;</td>
<td>17</td>
</tr>
<tr>
<td>D</td>
<td>2</td>
<td>#2</td>
<td>12'-0&quot;</td>
<td>28</td>
</tr>
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<td>E</td>
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<td>G</td>
<td>2</td>
<td>#2</td>
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<tr>
<td><strong>Total</strong></td>
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<td></td>
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<td></td>
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<tr>
<td><strong>Reinforcing Steel</strong></td>
<td>13</td>
<td>8,538</td>
<td><strong>Class &quot;C&quot; Concrete</strong></td>
<td>CF</td>
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</tbody>
</table>

### TABLES OF ESTIMATED QUANTITIES WITH 3:1 HEADER SLOPE

<table>
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<th>TYPE Tx28 Girders</th>
<th>TYPE Tx34 Girders</th>
<th>TYPE Tx40 Girders</th>
<th>TYPE Tx46 Girders</th>
<th>TYPE Tx54 Girders</th>
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<td><strong>Bar No.</strong></td>
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<td><strong>Size</strong></td>
<td><strong>Length</strong></td>
<td><strong>Weight</strong></td>
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<tr>
<td>A</td>
<td>11</td>
<td>#11</td>
<td>59'-9&quot;</td>
<td>3,141</td>
</tr>
<tr>
<td>B</td>
<td>2</td>
<td>#2</td>
<td>7'-0&quot;</td>
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<tr>
<td>C</td>
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</tr>
<tr>
<td>D</td>
<td>2</td>
<td>#2</td>
<td>28'-5&quot;</td>
<td>60</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Reinforcing Steel</strong></td>
<td>13</td>
<td>8,338</td>
<td><strong>Class &quot;C&quot; Concrete</strong></td>
<td>CF</td>
</tr>
</tbody>
</table>

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1. Omit Dowels D at end of multi-span unit.  Adjust reinforcing steel accordingly.
2. Quantities shown are for one abutment only (with approach slab).  With an approach span, add 2.2 CY Class "C" concrete and 323 lbs reinforcing steel for 4 additional Bars H.
3. Use this standard is governed by the "Texas Engineering Practice Act".  No warranty of any kind is made by TXDOT for any purpose whatsoever.  TXDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

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**ABUTMENTS**

**TYPE TX28 THRU TX54**

**PRESTR CONC I-GIRDERS**

**40' ROADWAY**

**45° SKEW**

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**HL3D LOADING**

**AIG-40-45**