The use of this standard is governed by the "Texas Engineering Practice Act." No warranty of any kind is given to other formats or for incorrect results or damages resulting from its use.

For vehicle safety, the following requirements must be met:
- For structures without bridge rail, construct curbs no more than 3" above finished grade.
- For structures with bridge rail, construct curbs with finished grade equal to or higher than RAC standard sheet for structures with bridge rail other than T631 or T631LS.

For curbs less than 3" high, tilt Bars K or reduce bar height as necessary to maintain cover. For curbs less than 3" high, Bars K may be omitted.

3" typical. 2'-2" when the Rail Anchorage Curb (RAC) standard sheet is referred to elsewhere in the plans.

The Contractor may replace Bars B, C, D, E, F1, F2, M, Y, and/or Z with deformed reinforcing bar covered by ASTM A615. The provided lap length is 2'-1" (the same lap length required for WWR). Spacing of WWR is limited to 4" Min and 18" Max. When required, provide lap splices in the WWR of the same length required for the equivalent bar size, rounded up for wire sizes between conventional bar sizes. The lap length required for WWR is never less than the lap length required for uncoated #4 bars.

Example conversion: Replacing No. 6 Gr 60 at 6" Spacing with WWR. The required spacing = (0.306 sq. in.) / (0.755 sq. in. per ft.) x (12 in./ft.) = 4.86". Spacing of WWR is limited to 4" Min and 18" Max. When required, provide lap splices in the WWR of the same length required for the equivalent bar size, rounded up for wire sizes between conventional bar sizes. The lap length required for WWR is never less than the lap length required for uncoated #4 bars.

CONSTRUCTION NOTES:
- Do not use permanent forms.
- Chamfer the bottom edge of the top slab 3" at the entrance.
- Chamfer construction joints shown at the flow line by a maximum of 4". If this option is taken, Bars M may be cut off or raised. Bars C and D may be reversed.

MATERIAL NOTES:
- Provide Grade 60 reinforcing steel.
- Provide galvanized reinforcing steel if required elsewhere in the plans.
- Provide Class S concrete (f'c = 4,000 psi) for top slabs of:
  - culverts with overlay,
  - culverts with surface treatment, or
  - culverts with the top slab as the final riding surface.

GENERAL NOTES:
- Design according to AASHTO LRFD Bridge Design Specifications for the range of loads shown.
- See the Single Box Culverts Cast-In-Place Miscellaneous Detail (SCC-MD) standard sheet for details pertaining to skewed ends, angle sections, and lengthening.

Cover dimensions are clear dimensions, unless noted otherwise. Reinforcing bar dimensions shown are out-to-out of bar.
<table>
<thead>
<tr>
<th>SECTION</th>
<th>Dimensions</th>
<th>FULL HEIGHT</th>
<th>WEIGHT</th>
<th>Bars B</th>
<th>Bars C</th>
<th>Bars D</th>
<th>Bars M</th>
<th>Bars F1</th>
<th>Bars F2</th>
<th>Bars F3</th>
<th>Bars H</th>
<th>Bars K</th>
<th>Per Foot of Barrel</th>
<th>Curb</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>0' 0&quot;</td>
<td>0' 0&quot;</td>
<td>108</td>
<td>39&quot;</td>
<td>1.082</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0' 0&quot;</td>
<td>0' 0&quot;</td>
<td>108</td>
<td>39&quot;</td>
<td>1.082</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0' 0&quot;</td>
<td>0' 0&quot;</td>
<td>108</td>
<td>39&quot;</td>
<td>1.082</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0' 0&quot;</td>
<td>0' 0&quot;</td>
<td>108</td>
<td>39&quot;</td>
<td>1.082</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0' 0&quot;</td>
<td>0' 0&quot;</td>
<td>108</td>
<td>39&quot;</td>
<td>1.082</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0' 0&quot;</td>
<td>0' 0&quot;</td>
<td>108</td>
<td>39&quot;</td>
<td>1.082</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0' 0&quot;</td>
<td>0' 0&quot;</td>
<td>108</td>
<td>39&quot;</td>
<td>1.082</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0' 0&quot;</td>
<td>0' 0&quot;</td>
<td>108</td>
<td>39&quot;</td>
<td>1.082</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:** For direct traffic culverts (fill height > 2 ft), identify the required box size and select the option with the minimum fill height.