8" Min to 10'-0" Max. Estimated curb heights are shown elsewhere in the plans. For structures with pedestrian rail or curbs taller than 8'-0", refer to the Extended Curb Details (ECD) standard sheet. For structures with T631 or T631LS bridge rail, refer to the Mounting Details for T631 & T631LS Rail (T631-CM) standard sheet. Refer to the Rail Anchorage Curb (RAC) standard sheet for structure with bridge rail other than T631 or T631LS.

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 flush with finished grade.

Reduce curb heights if necessary to meet the above requirements. No changes will be made in quantities and no additional compensation will be allowed for this work.

If curbs less than 2'-0" high, tilt Bars K or reduce bar height as necessary to maintain cover. For curbs less than 3'-0" high, Bars K may be omitted.

1'-0" typical; 2'-0" 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 wire reinforcement (WWR) meeting the requirements of ASTM A1064. The area of required reinforcement may be reduced by the ratio of 63 ksi / 10 kN/m. Spacing of WWR is limited to 4" Min. 18" Max. When required, provide bar options in the WWR of the same length required for the equivalent bar size, rounded up for every 5th inch above conventional bar lengths. The required lap length 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.

Example calculation:  
Required WWR = (0.44 sq. in. per 0.5 ft.) x (60 ksi / 70 ksi) = 0.755 sq. in. per ft.  
Required spacing = (0.306 sq. in. per ft.) / (0.755 sq. in. per ft.) = 4.86"  
Max spacing = (4.86" per ft.) x (12 in. per ft.) = 58.33 per ft.  
Minimum lap length required for uncoated #5 bars, as listed under MATERIAL NOTES.

For structures with bridge rail, construct curbs flush with finished grade. Where curbs are required, follow the Rail Anchorage Curb (RAC) standard sheet for details pertaining to skewed ends, angle sections, and lengthening.

GENERAL NOTES:
- Do not use permanent forms.
- Chamfer the bottom edge of the top slab 3" at the entrance.
- Provide galvanized reinforcing steel if required elsewhere in the plans.
- Provide Class C concrete (f'c = 3,600 psi) for culvert barrel and curb, with the following exceptions:
  - Provide Class S concrete (f'c = 4,000 psi) for top slabs of:
    - culverts with 1-to-2 course surface treatment, or
    - culverts with overlay,
  - Provide bars, where required, as follows:
    - Galvanized or galvanized = #4 - 1'-0" Min
    - Galvanized or galvanized = #5 - 1'-0" Min
    - Galvanized or galvanized = #6 - 1'-0" Min
    - Galvanized or galvanized = #7 - 1'-0" Min
  - Provide #4 Gr 60 reinforcing steel if required elsewhere in the plans.

Provide Grade 60 reinforcing steel.

MATERIAL NOTES:
- Provide Grade 60 reinforcing steel.
- Provide galvanized reinforcing steel if required elsewhere in the plans.
- Provide Galvanized Class C concrete (f'c = 3,600 psi) for culverts and curb, with the following exceptions:
  - Provide #4 Gr 60 reinforcing steel if required elsewhere in the plans.
- Provide bars, where required, as follows:
  - Provide bars, where required, as follows:
    - Provide bars, where required, as follows:
      - Galvanized or galvanized = #4 - 1'-0" Min
      - Galvanized or galvanized = #5 - 1'-0" Min
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      - Galvanized or galvanized = #7 - 1'-0" Min
  - Provide bars, where required, as follows:
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                                                                                - Provide bars, where required, as follows:
 Adam M. Atwood

 Texas Department of Transportation
 Bridge Division

SINGLE BOX CULVERTS
CAST-IN-PLACE
0' TO 30' FILL

SCC-10
<table>
<thead>
<tr>
<th>Bars M - #4</th>
<th>Bars H - #4</th>
<th>Bars K</th>
<th>Per Foot of Barrel</th>
<th>Curb</th>
<th>Total</th>
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</thead>
<tbody>
<tr>
<td>Length</td>
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<td>at 0' Fill</td>
<td>18&quot; Spans</td>
<td>at 0' Fill</td>
<td>18&quot; Spans</td>
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</table>

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

- **SCC-10**
- **MH3 Loading**
- **Texas Department of Transportation**
- **Single Box Culverts**
- **CAST-IN-PLACE**
- **0' TO 30' FILL**

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1. For direct traffic culverts (fill height ≤ 2 ft.), identify the required box size and select the option with the minimum fill height.
### BILLS OF REINFORCING STEEL (For Box Length = 40 feet)

<table>
<thead>
<tr>
<th>Bars B</th>
<th>Bars C</th>
<th>Bars D</th>
<th>Bars M #4</th>
<th>Bars F2 #4 at 18&quot; Spc</th>
<th>Bars F3 #4 at 18&quot; Spc</th>
<th>Bars H #4</th>
<th>Bars K</th>
<th>Per Foot of Barrel</th>
<th>Curb</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
<td>S</td>
<td>H</td>
<td>L</td>
<td>Wt (Lb)</td>
<td>No.</td>
<td>S</td>
<td>H</td>
<td>L</td>
<td>Wt (Lb)</td>
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<tr>
<td>10' 0&quot;</td>
<td>3' 8&quot;</td>
<td>10' 3&quot;</td>
<td>6' 4&quot;</td>
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<td>10' 0&quot;</td>
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**Note:** For direct traffic culverts (fill height ≤ 2 ft.), identify the required box size and select the option with the minimum fill height.