### Cast-in-Place Reinforced Concrete Single Box Culvert

**Typical Section SPANS 4' THRU 8'**

<table>
<thead>
<tr>
<th>SPAN, S</th>
<th>4'</th>
<th>5'</th>
<th>6'</th>
<th>7'</th>
<th>8'</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEIGHT, H</td>
<td>10&quot;</td>
<td>11&quot;</td>
<td>12&quot;</td>
<td>13&quot;</td>
<td>14&quot;</td>
</tr>
<tr>
<td>MAXIMUM EARTH COVER</td>
<td>10&quot;</td>
<td>10&quot;</td>
<td>10&quot;</td>
<td>10&quot;</td>
<td>10&quot;</td>
</tr>
</tbody>
</table>

#### Invert

- **Type:** T
- **Size Bar:** #6 @ 12" Max

**Notes:**
1. For boxes with span or height less than any of those shown in table, use next greater size box concrete dimensions and reinforcement, make necessary changes in bar lengths and quantities.
2. Quantities are approximate and for design purposes only.
3. For boxes with span or height or cover greater than those shown in tables, a special design is required.
4. It is permissible to eliminate the 180° hooks on every other bar.
5. "U" bars are at half spacing (spans 10' - 14' only).
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7. Provide paving notch when top is exposed and pavement is concrete, and adjust quantities.
8. If design and details not shown, see Standard Plan D81.
9. For exposed top, provide #4 @ 12" each way, top "U" bars 2'-0" or use full span length.
10. Use soil pressures shown if factored per ASHTE LPSD and include soil weight of fill over box, self weight of box and live load where applicable.

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### Typical Section SPANS 10' THRU 14'

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