### Table: Dimensions of Intermediate Sections

<table>
<thead>
<tr>
<th>Class IV</th>
<th>Class III</th>
<th>Class II</th>
<th>Class I</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Y</td>
<td>X</td>
<td>Y</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
</tbody>
</table>

### Dimensions of End Sections

<table>
<thead>
<tr>
<th>Width (in)</th>
<th>Height (in)</th>
<th>Length (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>12</td>
<td>15</td>
</tr>
</tbody>
</table>

### Reinforced Concrete Pipe Arch Culverts and End Sections

- **Nominal Dimensions of RCP Arch Culverts**
- **Dimensions of End Sections**
- **Dimensions of Intermediate Sections**
- **Strengthen Requirements**
- **Double-Line Reinforcement**
- **Single-Line Reinforcement**
- **Continuous Basic Reinforcement**
- **Additional Reinforcement**

### Details of Concrete Pipe Ties (Tie Bolts)

- **Holes for Tie Bolts**
- **Rise (in)**
- **Spans (ft)**
- **Gaskets or with sealer approved by the authority having jurisdiction.**

### Reinforced Concrete Pipe Arch Culvert

- **Transverse Section**
- **Single Line Reinforcement**
- **Perspective View**
- **End Section for Arches Smaller than 90°**

### End Section for Arches 90° and Larger

This document was originally issued and sealed by Terrence R. Udland, Registration Number PE-26271, on 05/24/14. The original document is stored at the North Dakota Department of Transportation.