Refer to SW-514 for boxout details.

1. SW-603 Type R unless Type Q is specified in the contract documents.

2. Cast-in-place base shown. Base may be square. If base is precast integral with walls, the footprint of the base is not required to extend beyond the outer edge of the walls.

3. For additional configurations, maintain a minimum of 12 inches of concrete between vertical edges of pipe openings.

4. 12 inch minimum riser height above all pipes.

**TABLE:**

<table>
<thead>
<tr>
<th>Manhole Diameter (inches)</th>
<th>Maximum Pipe Diameter (inches) for 2 Pipes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>at 180° Separation</td>
</tr>
<tr>
<td>48</td>
<td>24</td>
</tr>
<tr>
<td>60</td>
<td>36</td>
</tr>
<tr>
<td>72</td>
<td>42</td>
</tr>
<tr>
<td>84</td>
<td>48</td>
</tr>
<tr>
<td>96</td>
<td>60</td>
</tr>
</tbody>
</table>

**Legend:**

- Form Grade
- Adjustment Rings
- Precast Top
- Precast Riser Sections
- Concrete Fillet
- Base
- Location Station (Back of Curb)
- #4 Bars at 12" o.c. Each Way
- 8" min. Class I Bedding Material
- 6" min.
- 12" min.
- 24"
- Manhole Diameter
- Depth