### Dimensions

<table>
<thead>
<tr>
<th>Nominal Pipe Dia</th>
<th>External Pipe Dia</th>
<th>A**</th>
<th>E</th>
<th>H</th>
<th>K</th>
<th>L</th>
<th>Type 1: Slope at 1.5:1</th>
<th>Type 2: Slope at 2:1</th>
<th>Type 3: Slope at 3:1</th>
</tr>
</thead>
<tbody>
<tr>
<td>300</td>
<td>342</td>
<td>762</td>
<td>300</td>
<td>531</td>
<td>80</td>
<td>50</td>
<td>158</td>
<td>157</td>
<td>197</td>
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<tr>
<td>375</td>
<td>445</td>
<td>845</td>
<td>300</td>
<td>610</td>
<td>80</td>
<td>50</td>
<td>225</td>
<td>206</td>
<td>235</td>
</tr>
<tr>
<td>450</td>
<td>534</td>
<td>934</td>
<td>300</td>
<td>692</td>
<td>130</td>
<td>70</td>
<td>307</td>
<td>254</td>
<td>385</td>
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<tr>
<td>525</td>
<td>616</td>
<td>1016</td>
<td>300</td>
<td>775</td>
<td>180</td>
<td>90</td>
<td>394</td>
<td>368</td>
<td>583</td>
</tr>
</tbody>
</table>

**Notes:**

1. Ensure the relation of the batter to the top of the endwall is essential for the safety of the structure. The details as shown in section A-A must be adhered to during construction.

2. Reinforcement bars shall comply with AS/NZS 4671, Grade 400Y, laps in reinforcement bars shall be 300 mm and clear cover 50 mm.

3. Exposed edges shall have 20 x 20 chamfers.

4. Compaction pressure behind walls not to exceed 15 kPa.

5. Turbine vibrator unit or 300 kg vibratory plate within 0.5m of wall.

6. See notes 1, 2, 3, 4, and 5 for quantities.

7. Concrete shall be normal-class N200 standard strength grade or, unless complying with the requirements of AS 1579, exposure classification of 107A1 and including R1C.

8. Concrete aggregates shall comply with Table 71.02 of Vermont Standard Specification Section 701.

9. Endwalls shall be constructed in accordance with the relevant provisions of AS 3600.

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**General Notes:**

1. All dimensions are in millimeters.

2. Culvert pipe and outlet structures - selection guide SD 1700

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**Standard Drawing:**

Mass concrete wingwall types 1, 2, & 3

Pipe Culverts 300 to 525 Dia

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**Legend:**

- **A:** 5/2/95
- **C:** 5/2/95
- **D:** 5/2/95
- **C:** 5/2/95

**Issue:**

- **C:** 5/2/95

**Amendment:**

- 5/2/95

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**Sheet No.:**

- SD 1851

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**Project:**

- Infrastructure

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**Scale:**

- Not to Scale