### Reinforcement for 2 Headwalls

<table>
<thead>
<tr>
<th>SHAPE</th>
<th>MARK</th>
<th>DIA (mm)</th>
<th>PTE (mm)</th>
<th>OXA (mm)</th>
<th>L (mm)</th>
<th>LENGTH (mm)</th>
<th>No. REGO</th>
<th>TOTAL LENGTH (m)</th>
<th>MASS (kg)</th>
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</thead>
<tbody>
<tr>
<td>A1</td>
<td>12</td>
<td>1050</td>
<td>1830</td>
<td>950</td>
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<td>7.60</td>
<td>6.07</td>
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<tr>
<td>A1</td>
<td>12</td>
<td>1050</td>
<td>2480</td>
<td>950</td>
<td>4</td>
<td>9.90</td>
<td>8.83</td>
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<td></td>
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<tr>
<td>A2</td>
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<td>3050</td>
<td>950</td>
<td>4</td>
<td>11.23</td>
<td>9.85</td>
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<tr>
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<td>2800</td>
<td>950</td>
<td>4</td>
<td>12.22</td>
<td>12.45</td>
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<td>2100</td>
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<td>8.90</td>
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<tr>
<td>A3</td>
<td>12</td>
<td>1050</td>
<td>1950</td>
<td>950</td>
<td>4</td>
<td>9.40</td>
<td>8.35</td>
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<td></td>
</tr>
<tr>
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<td>1800</td>
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<td>4</td>
<td>11.80</td>
<td>10.48</td>
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</tr>
</tbody>
</table>

**ELEVATION**

- Concrete thickening for 150, 220 and 320 pipes

**SECTION**

- Not to scale

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**NOTES**

1. Concrete strength grade shown is for Exposure Classification A2. Refer to AS3600-2009, Section 4 for concrete strength grades. Use alternate reinforcing for Exposure Classifications A1 and A3.

2. Clear cover to outer face of reinforcement 50 mm unless otherwise shown.

3. Concrete grade N25.

4. All bars to be grade 40 or 42. Refer to AS4461-2001.

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**REINFORCEMENT FOR 2 HEADWALLS**

- 2 Headwalls
- Ø1500 and Ø1800 pipes
- 2 Wingwall lengths
- 2 Curtain Wall Widths
- 2 Curtain Wall Heights
- Nominal Pipe Diameter
- Exposure Classifications
- Classification A2. Refer to AS3600-2009, Section 4 for concrete strength grades, cover to reinforcement and for other exposure classifications.

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**CONCRETE HEADWALLS SINGLE CELL Ø1050mm TO Ø1800mm**

- Rock filled mattress 230 mm thick
- With rock mattress protection
- 3.50 m high
- Exposure Classifications
- Classification A2. Refer to AS3600-2009, Section 4 for concrete strength grades, cover to reinforcement and for other exposure classifications.

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**NOTES**

1. Concrete strength grade shown is for Exposure Classification A2. Refer to AS3600-2009, Section 4 for concrete strength grades. Use alternate reinforcing for Exposure Classifications A1 and A3.

2. Clear cover to outer face of reinforcement 50 mm unless otherwise shown.

3. Concrete grade N25.

4. All bars to be grade 40 or 42. Refer to AS4461-2001.