**ELEVATION**

**HEXIL DETAIL**

**EXAMPLE OF IDENTIFICATION LABEL**

- **ACR Number**: A12364
- **Manufacturer's Name/Trade War**: Big Pol Cr.
- **Year/Make**: 15kg
- **9/03**

**NOTES:**

1. **SCOPE**: This Standard Drawing provides details of the anchor cage in accordance with MB1002 and MB1003.
   - Helix cages are suitable for traffic signal masts, S15-50 Series and S1 and U2 Series.
2. **TENSION**: General & Minor - 50.3k & 75k.
3. **INSTALLING STEEL**: shall be in accordance with Standard Drawing 1044, and with MB1071 and AS/NZS 4671.
   - Deformed bars Grade 500NB.
   - Round bars Grade 520NB.
   - All anchor reinforcing steel shall be AC500 certified.
   - Bars shall be threaded in accordance with AS 1275 before galvanising.
   - Prior to galvanising all weld slugs and welding slag shall be removed.
   - Completed anchor cages shall be hot dip galvanised to AS/NZS 1490.
   - Nuts Class 8 and structural washers for Class 6.8 bolts shall be supplied in accordance with MB1071. Assembly testing of threaded bars and nuts shall be in accordance with MB1071 with tests loads on the Class 6.8 bolts.
   - All nuts and washers shall be hot dip galvanised to AS 1214.
   - **WELDING**: symbol conforms to AS 1102.3.
   - All welding to AS/NZS 1554.3.
4. Welding consumables to be controlled in accordance with MB1071.
5. Anchor cages shall have a stainless steel or aluminium identification label, visibly marked with manufacture's identification, the name of the anchor cage, and the month/year of manufacture. This label shall be securely attached to the upper portion of the 10-12 dia bar of the assembled cage, immediately below the threaded nuts, as shown in the drawing.

**REFERENCES**

- **Design Criteria for Bridges and Other Structures**
- **Departmental Standard Drawings**
  - 1404 Traffic Signals/Road Lighting - Extension to Light Pole and Mast Arm Anchor Cages
  - 1405 Traffic Signals/Road Lighting/PTS - Parts List
  - **Departmental Specifications**
    - MB1071 Manipulating Steel
    - MB1071B Fabrication of Structural Steelwork
  - MB1070 Traffic Signal and Road Lighting Specifications

**MATERIALS LIST**

<table>
<thead>
<tr>
<th>NO.</th>
<th>DESCRIPTION</th>
<th>QTY</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>10 dia Grade 520NB deformed bar</td>
<td>8</td>
<td>Hot threaded 100 of top to M33</td>
</tr>
<tr>
<td>2</td>
<td>12 dia Grade 520NB bolts at 150 pitch</td>
<td>1</td>
<td>Circular hole</td>
</tr>
<tr>
<td>3</td>
<td>Type 1 Spider Cage Grade 520NB</td>
<td>1</td>
<td>Refer Section A</td>
</tr>
<tr>
<td>5a</td>
<td>Type 2 Spider Cage Grade 520NB</td>
<td>1</td>
<td>Refer Section B [2 off for 3m anchor cage]</td>
</tr>
<tr>
<td>4</td>
<td>Nuts, bolts, high strength galvanised</td>
<td>8</td>
<td>To suit galvanised M33 threaded bar</td>
</tr>
<tr>
<td>5</td>
<td>Fixing nuts, bolts, high strength galvanised</td>
<td>8</td>
<td>To suit galvanised M33 threaded bar</td>
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<tr>
<td>5a</td>
<td>M33 screw cap nuts, bolts, high strength galvanised</td>
<td>8</td>
<td>To suit galvanised M33 threaded bar</td>
</tr>
<tr>
<td>6</td>
<td>Washers, structural, galvanised</td>
<td>16</td>
<td>To suit galvanised M33 threaded bar</td>
</tr>
</tbody>
</table>

**MATERIALS**

- **Alloy Steel**: deformed bars grade 500NB.
- **Round Bars**: grade 520NB.
- **Anchor Reinforcing Steel**: AC500 certified.
- **Bolts**: class 8 and structural washers for class 6.8 bolts.

**DIMENSIONS**

- All dimensions in millimeters unless otherwise specified.

**ASSOCIATED DOCUMENTS**

- Design Criteria for Bridges and Other Structures.