### Details of Transformer Base TB-B (TR-1-17)

**Transmitter**

- **Alternation Type**: TB-B
- **Scale**: 5/8" = 1'

**Ground Stud Detail**

**Note**: All stainless steel (SS) hardware shall be Type 304 in accordance with ASTM A 679 grade 304. All steel hardware shall meet the following standards when applicable:

- **Fasteners**: Per ASTM A 193
- **Nuts**: Per ASTM A 194
- **Washers**: Per ASTM F 436

**Material and Dimensions**

- **Stainless Steel**
- **Lockwashers**

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimension when using pole with 11&quot; to 12&quot; Bolt Circle</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>1&quot;-7NC x 25/32&quot; long</td>
</tr>
<tr>
<td>B</td>
<td>9/16&quot; I.D. for 1&quot; bolt, 7/8&quot; O.D. for 1-5/8&quot; bolt</td>
</tr>
<tr>
<td>C</td>
<td>2-5/32&quot; O.D. x 9/32&quot; long</td>
</tr>
<tr>
<td>D</td>
<td>1&quot;-7NC</td>
</tr>
<tr>
<td>E</td>
<td>1-7NC x 25/32&quot; long</td>
</tr>
<tr>
<td>F</td>
<td>1-7NC</td>
</tr>
<tr>
<td>G</td>
<td>9/16&quot; I.D. for 1-7/32&quot; bolt, 7/8&quot; O.D. for 1-5/8&quot; bolt</td>
</tr>
<tr>
<td>H</td>
<td>3/16&quot; O.D. x 3/32&quot; long</td>
</tr>
<tr>
<td>I</td>
<td>1&quot;-7NC</td>
</tr>
<tr>
<td>J</td>
<td>Transformer Base TB-B</td>
</tr>
<tr>
<td>K</td>
<td>Transformer Base TB-B</td>
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<tr>
<td>L</td>
<td>Transformer Base TB-B</td>
</tr>
</tbody>
</table>

**Notes**

1. Bolt connecting pole base to transformer base TB-A shall be installed on a 1/2" bolt circle. Both connecting pole bases to transformer base TB-B shall be installed on a 1/2" bolt circle.
2. All transformer bases shall be certified by F.H.W.A. as to approved prestressed modular ironworks devices to the most current AASHTO standards. A label indicating this certification shall be affixed to the transformer base opposite the door opening.
3. Transformer bases shall be constructed of corrosion-resistant aluminum alloy 5056-16.
4. For Transformer Bases:
   - Grounding shall be provided. The grounding stud shall be installed as shown in Step A in Detail B. Grounding in all transformer bases on both sides shall be installed in the same manner.
   - For poles mounted without transformer bases:
     - Grounding shall be also used for installation of poles.
     - Where no transformer base is provided, grounding shall be installed opposite handholes on these poles.
5. Transformer base door shall be manufactured of corrosion-resistant aluminum alloy 5056-16. Minimum thickness shall be 0.14".
6. Studded poles in pole base shall be sized to accept 1-7/32" diameter anchor bolts for Transformer Base Type TB-A and 1-7/32" diameter anchor bolts for Type TB-B.

**Typical Bolting Details**

- **Scale**: 5/8" = 1'
- **Dimensions vary per type of pole. See Schedule 8.1 for actual dimensions**

**Transformer Base TB-B**

**Transformer Base TB-B (TR-1-17)**

**Note**: This drawing is not to scale.

**Elevation**

- **Diameter of 15/8" Bolt Circle**
- **Diameter of 17-1/2" Bolt Circle**

**Bottom View**

- **Transformer Base TB-B**
- **Scale**: 5/8" = 1'