NOTES:
1. All materials and construction shall conform to the manufacturer's requirements and the project specifications.
2. The hardware used to connect the pole to the base, and the base to the foundation, shall meet all applicable structural and installation requirements as prescribed by the pole and Breakaway base manufacturer.
3. Poles shall be mounted on a breakaway base with 4 high-strength bolts (ASTM F3125 or F3264, utilizing 1 Hex nut, 1 Hex washer, and 10G-3/8-00 x 1 1/2" x 1/2" thick steel washer per bolt, all furnished with the breakaway base).

<table>
<thead>
<tr>
<th>Base Type</th>
<th>Bolt Size</th>
<th>Pole Types</th>
<th>Bottom Bolt Circle</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1 1/8&quot; Dia x 4&quot;</td>
<td>Aluminum S, G and Steel A and S</td>
<td>12&quot;</td>
</tr>
<tr>
<td>3</td>
<td>1 1/8&quot; Dia x 4½&quot;</td>
<td>Aluminum I, J and T</td>
<td>17½&quot;</td>
</tr>
</tbody>
</table>

4. A bolt circle smaller than specified shall not be used unless specifically approved by the Engineer. If a smaller bolt circle is approved, the pack washers shall be used in a manner approved by the manufacturer.

5. All bolts shall be installed and torqued according to the breakaway base manufacturer's requirements.

6. The base shall be installed such that the base access door or cover is positioned under the next beam, or 90 degrees to the next beam, behind the mast arm side of the pole. The door or cover opening shall always be perpendicular to the direction of traffic.

7. An un-fused connector shall be used for each conductor in the breakaway base, except for the bond which shall be connected directly to the base ground lug. For details see T8, Series 1. The fused connections shall be in the junction or pull box adjacent to the pole foundation.

8. The base door or cover shall have the base and/or pole manufacturer's name on it. The door shall be secured with 1/2" x 20 stainless steel hex screws or vandalism-resistant screws. All screws shall be furnished with the base. The door can be hinged, or be a removable panel.

9. All 2½" x 00 x 1½" x 1/2" thick washers and 2½" x 00 x 1½" x 1/2" thick washers shall be zinc mechanically coated per ASTM B 662-B95 class 90, with a smooth outer surface, or shall be galvanized per the requirements of ASTM F2323. All other bolts, nuts & washers shall be galvanized per ASTM F2323.

10. The bases shown are two place weldments that are in conformance to ASTM B 18 Bel aluminum alloy permanent mold castings.

11. Certifications shall be provided by pole and breakaway base manufacturer when requested. Certifications shall cover materials used, DNR crashworthiness approval, and performance to loading criteria stated herein.

12. The caution and use instructions label shall be secured inside the base on the wall opposite of the access door plate or on the cover itself.

13. The base, as supplied and installed, shall conform to all applicable ASHTO, NCHRP, and FHWA requirements for frangible bases for roadway light poles.

14. The base depicted in these drawings is made by the Akron Foundry. This is not intended to limit or restrict competition, but to establish the needed performance and function of breakaway bases.

BASE LOADING CRITERIA:

<table>
<thead>
<tr>
<th>Base Type</th>
<th>Max Total Weight (See Notes 1 &amp; 2 below)</th>
<th>Pole</th>
<th>Mast Arm and Luminaire</th>
<th>Aeron Designations</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>600 lb</td>
<td>600 lb</td>
<td>600 lb</td>
<td>T8-17</td>
</tr>
<tr>
<td>3</td>
<td>900 lb</td>
<td>600 lb</td>
<td>600 lb</td>
<td>T8-3-17</td>
</tr>
</tbody>
</table>

LOADING CRITERIA NOTES:

1. The loading criteria should be regarded as minimum. Actual criteria shall be as determined by the base and/or pole manufacturer.

2. Highway Light Poles & Mast Arm/Luminaire combinations which exceed this loading criteria must be tested and DNR certified in accordance with the applicable ASHTO Specifications, NCHRP, and FHWA requirements.

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[Diagram of Breakaway Base and Connector]