### PARTS LIST

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
<th>SIZE/SPECIFICATIONS</th>
<th>QTY/POST</th>
<th>PART NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Bracket, Type AS4</td>
<td>6081-T6 Aluminum</td>
<td>2</td>
<td>SBMAS4H*</td>
</tr>
<tr>
<td>2</td>
<td>Bracket Hardware Assembly, Type AS4, includes:</td>
<td></td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>2a</td>
<td>Bolt</td>
<td>12.7mm(1/2&quot;)-13UNCx184mm(7-1/4&quot;), Hex Head, ASTM A325, Galv. ASTM A153</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>2b</td>
<td>Lockwasher</td>
<td>12.7mm(1/2&quot;), ANSI B18-21-1, Galv. ASTM A153</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>2c</td>
<td>Nut</td>
<td>12.7mm(1/2&quot;)-13UNC, Heavy Hex, ASTM A563 Gr. D6, Galv. ASTM A153</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Coupling &amp; Special Bolt Assembly, Type A, includes:</td>
<td></td>
<td>1</td>
<td>SB-CALF</td>
</tr>
<tr>
<td>3a</td>
<td>Special Bolt</td>
<td>15.9mm(5/8&quot;)-11UNC, ASTM A449, Galv. ASTM A153/B695</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>3b</td>
<td>Coupling</td>
<td>15.9mm(5/8&quot;)-11UNC, LF, AMS 6378D, Galv. ASTM A153, Polyester Coat</td>
<td>4</td>
<td></td>
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<tr>
<td>3c</td>
<td>Shim</td>
<td>15.9mm(5/8&quot;) Horsehoe, 16 Gauge, Galv. Steel Sheet</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>3d</td>
<td>Shim</td>
<td>15.9mm(5/8&quot;) Horsehoe, 18 Gauge, Galv. Steel Sheet</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Hinge Assembly, Type A, includes:</td>
<td></td>
<td>1</td>
<td>SB-HB3</td>
</tr>
<tr>
<td>4a</td>
<td>Hinge Plate Type A, ASI 4130 Stainless Steel, Galv. ASTM A123</td>
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<td>4</td>
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</tr>
<tr>
<td>5</td>
<td>Hinge Hardware Assembly, Type A, includes:</td>
<td></td>
<td>1</td>
<td>SB-HHA</td>
</tr>
<tr>
<td>5a</td>
<td>Bolt</td>
<td>12.7mm(1/2&quot;)-13UNCx127mm(5&quot;), Hex Head, ASTM A325, Galv. ASTM A153</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>5b</td>
<td>Lockwasher</td>
<td>12.7mm(1/2&quot;), ANSI B18-21-1, Galv. ASTM A153</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>5c</td>
<td>Nut</td>
<td>12.7mm(1/2&quot;)-13UNC, Heavy Hex, ASTM A563 Gr. D6, Galv. ASTM A153</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Anchor Assembly, Type A, includes:</td>
<td></td>
<td>1</td>
<td>SBAAPK</td>
</tr>
<tr>
<td>6a</td>
<td>Anchor</td>
<td>15.9mm(5/8&quot;)-11UNC, 504 S.S. Ferrule, ASI 1038 Rod, ASI 1008 Coll</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

*Complete assembly includes line items 1-5

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### GENERAL NOTES:


2. Break-Safe Model AS4-H is designed to fit 89 mm (3-1/2") and 102 mm (4") steel or aluminum square tube signposts.

3. All hardware items are American Standard sizes, galvanized in accordance with ASTM A153 (not dipped) or ASTM B695 (mechanically applied).

4. Fasteners, except for special bolt and coupling, are installed with lockwashers, and do not have specific torque requirements. Fasteners should be secured as tight as possible with conventional wrenches, unless noted otherwise.

5. Square-up and level individual components, particularly Anchors, to minimize the need for shimming between the Couplings and Anchors.

6. No more than two shims shall be placed under any one coupling. No more than three shims underneath any pair of couplings.

7. Refer to other side of page for complete Installation instructions.

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Break-Safe Model AS4H
Breakaway Support System for Sign Posts

Scale: Not To Scale
Date: March 2013
Drawing No. BS-AS4H-1
Sheet: 1 of 2
INSTALLATION INSTRUCTIONS

ANCHOR ASSEMBLY:

Notes: Precise positioning of the anchors is critical to proper assembly of the system. It is recommended that actual posts be used to locate the correct position of the anchors.

1. Fabricate a flat, rigid template with four (4) 16mm (5/8") diameter holes located to match the specified anchor pattern of the Break-Safe Brackets attached to the signpost. See diagram below.

2. Attach four (4) Transpo Type A Female Anchors to the template using four (4) 16mm (5/8") diameter bolts. Ensure that each Anchor Washer is snug against the bottom of the template.

3. Lower Anchor Assembly into fresh concrete foundation, and vibrate into position such that the tops of the Anchor Washers are flush with the finished top surface of the foundation. Support the template such that all Anchors are level and in their proper locations.

4. Allow concrete to cure, and then remove the bolts and template from the top of the foundation.

HINGE ASSEMBLY:

1. Butt upper and lower post sections together on a flat surface.

2. Drill eight (8) 14.3mm (9/16") holes in the upper and lower post sections as shown.

3. Place Hinge Plates on outer surface of the post, and secure with bolts, lock washers, and nuts. Bolt Heads may be tack welded to inside of tubular post. Ensure that upper and lower post sections are in alignment, and then tighten all nuts 1/2 turn beyond snug.

BRACKET ASSEMBLY:

1. Drill eight (8) 14.3mm (9/16") diameter holes in the bottom end of the lower post section as shown.

2. Place Brackets squarely on outer surface of the post, and secure with bolts, lock washers, and nuts. Then, tighten all 1/2 turn beyond snug.

COUPLING ASSEMBLY:

1. Thread four (4) Break-Safe Couplings into Anchors. Do not tighten.

2. Suspend post assembly over foundation, insert Special Bolts through holes in the Brackets, and thread them snug into the Couplings.

3. If post is not plumb, insert Shims (14g and/or 18g) between the Couplings and Anchors, where needed.

4. Use lower wrench flats to tighten Couplings into Anchors as tight as possible using a conventional wrench. Do not use a pipe wrench. Couplings must be seated squarely.

5. Tighten Special Bolts while holding Couplings by the upper wrench flats with an additional wrench to prevent an induced torque stress across the necked portion of the Coupling. All Special Bolts shall also be tightened as tight as possible using conventional wrenches.

SIGN PANEL ASSEMBLY:

1. After all signposts are secured in place, attach sign panel assembly to posts in accordance with the sign manufacturer's recommendations.

PLAN VIEW OF TYPICAL FOUNDATION

[Diagram of anchor assembly, hinge assembly, bracket assembly, and coupling assembly with specifications and dimensions provided]

[Diagram of sign panel assembly with anchor, post, bracket, coupling, and special bolt details]

[Diagram of plan view of typical foundation with anchor, post, and depth of post + 94mm (3-11/16") details]

[Diagram of upper post section with hinge plate, 14.3mm (9/16") Dia., 57.1mm (2-1/4"), 25.4mm (1"), 15.9mm (5/8"), 14.3mm (9/16") Dia., 6.4mm (1/4") specifications]

[Diagram of bottom post section with hinge plate, 41.3mm (1-5/8"), 25.4mm (1"), 15.9mm (5/8"), 6.4mm (1/4") specifications]

[Diagram of lower post section with hinge plate, 62.5mm (3-1/4"), 15.9mm (5/8"), 6.4mm (1/4") specifications]

[Diagram of anchor with 102mm (4") details]

[Diagram of bracket with 108mm (4-1/4") details]

[Diagram of clip with 54mm (2-1/8") details]

[Diagram of bolt with 14.3mm (9/16") Dia., 36.5mm (1-3/8") details]

[Diagram of sign panel with 17.8mm (11/16") details]

Patent Nos. 4,528,786 and 5,596,845

Break-Safe Model AS4H
Breakaway Support System for Sign Posts

Scale: Not To Scale
Date: March 2013
Drawing No. BS-AS4H-2
Sheet: 2 of 2

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