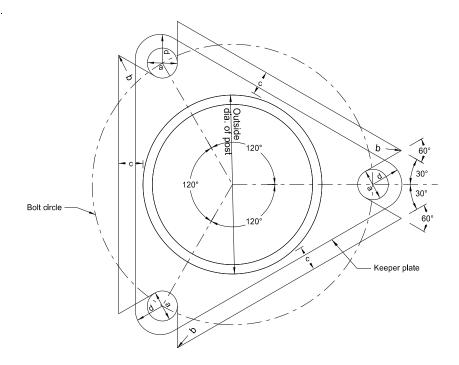
## Multi-Directional Breakaway System for Standard Pipe Stub Post



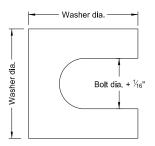
Stub Post Detail Top View

Notes: Tack weld aluminum base plate washers to the base, when the base plate is fabricated from aluminum.

Use standard drawing D-754-6 for fuse plate, hinge plate, and foundation details.

- Assembly Procedure:

  1. Assemble post to stub with bolts and one flat washer between base plates and keeper plate.
- 3. Tighten all bolts the maximum possible with 12" to 15" wrench to bed washers and shims to clean bolt threads, then
- 4. Retighten bolts in a systematic order to prescribed torque. (see table)
- Loosen each bolt and apply thread locking liquid resin conforming to ASTM D5363-03 (2008). Fill gaps between thread and mating surface with thread locker to form solid, one part assemblies secure from vibration, pressure,
- 6. Retighten each bolt to prescribed torque in the same order as initial retightening.



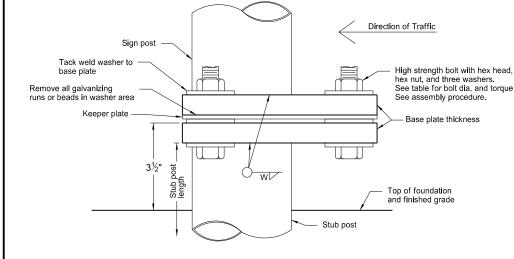
## Shim Detail

Furnish 2 each ±.012" thick and 2 each ±.032" thick shims per post. Fabricate shims from brass shim stock or strip conforming to ASTM B36.

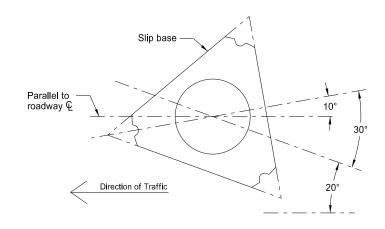
					Base	Data Table					
Nominal Post Size dia.	Outside Post dia.	Bolt Circle	a rad.	b rad.	c rad.	Bolt Size (dia. x length)	Base Plate Thickness	W	Base Bolt Torque ft. lb.	d rad.	Stub Post Length
			ı			Steel					
3½"	4"	7"	11/16"	1/8"	11/8"	1"x4"	11/4"	5/16 <b>"</b>	55	11/8"	1'-6"
4"	4.5"	7½"	11/16"	1/8"	11/8"	1"x4½"	1½"	3%"	98	11/8"	1'-6"
5"	5.563"	9½"	15/16"	1/8"	11/8"	1½"x5"	1½"	3%"	167	1%"	2'-0"
			•		Δ.	Aluminum					
3½"	4"	7"	<sup>13</sup> / <sub>16</sub> "	1/8"	7/8"	3/4"x31/2"	1"	<sup>5</sup> / <sub>16</sub> "	43	<b>%</b> "	1'-6"
4"	4.5"	7½"	<sup>13</sup> / <sub>16</sub> "	1/8"	3/4"	3/4"x4"	11/4"	<sup>5</sup> / <sub>16</sub> "	76	7⁄ <sub>8</sub> "	1'-6"
5"	5.563"	9½"	11/16"	1/8"	11/8"	1"x4"	11/4"	<sup>5</sup> / <sub>16</sub> "	98	11/8"	2'-0"
6"	6.625"	101/4"	11/16"	1/8"	3/4"	1"x4½"	1½"	3%"	134	11/8"	2'-0"

NORTH DAKOTA							
DEPARTMENT OF TRANSPORTATIO							
	2-28-14 REVISIONS						
DATE	CHANGE						
8-30-18 8-29-19 8-05-24	Updated notes to active volce. New Design Engineer PE Stan Electronic Stamp/Signature.						





Stub Post Connection - Type D **Elevation View** (Single Post)



Slip Base Orientation Top View