## ODOT English Steel Drawings Index

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<td>Sheet_19</td>
<td>4 x 4 TBB (with “H” frame) Fill Slope</td>
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<td>6 x 6 TBB (with “H” frame) Cut Slope</td>
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<td>8 x 21 MPB</td>
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<td>Sheet_34</td>
<td>10 x 22 MPB</td>
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</tbody>
</table>
**FILL SLOPE**

**MATERIAL DESCRIPTION**

<table>
<thead>
<tr>
<th>Material Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>3x3(\frac{3}{16}) Post</td>
<td>1</td>
</tr>
<tr>
<td>(\frac{3}{16})&quot; Plate (A36)</td>
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<tr>
<td>1'-6&quot; 3x3(\frac{3}{16}) Stub</td>
<td>1</td>
</tr>
<tr>
<td>22 ga. Keeper plate</td>
<td>1</td>
</tr>
<tr>
<td>Plate washer &quot;H&quot;</td>
<td>6</td>
</tr>
<tr>
<td>A325 1(\frac{1}{2})&quot;x4(\frac{3}{8})&quot; Base plate bolt with nut and (3) hardened washers</td>
<td>3</td>
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<tr>
<td>2(\frac{3}{4})&quot;x2(\frac{3}{4})&quot;x(\frac{3}{16})&quot; Cover plate</td>
<td>1</td>
</tr>
<tr>
<td>Sign support bracket</td>
<td>1</td>
</tr>
<tr>
<td>Base/stub plate</td>
<td>2</td>
</tr>
<tr>
<td>Brass shims</td>
<td>4</td>
</tr>
</tbody>
</table>

**NOTE:** All dimensions are in inches (in.) except as noted.

**NOTE:** REFER TO ODOT STD. DWG. NO. TM602 FOR COMPLETE INSTALLATION DETAILS, WELDING REQUIREMENTS AND ADDITIONAL GENERAL SPECIFICATIONS.

---

**BREAKAWAY SIGN POST**

No Scale

**KEEPER**

No Scale

**PLATE "H"**

No Scale

---

**POST STUB DETAILS**

No Scale

---

**BRASS SHIM DETAIL**

Provide 2 @ 0.012" thick and 2 @ 0.032" thick at each bolt.
**CUT SLOPE**

**MATERIAL DESCRIPTION**

<table>
<thead>
<tr>
<th>Material Description</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>3&quot;x3&quot;x3/16 Post</td>
<td>1</td>
</tr>
<tr>
<td>x6&quot;x3/8&quot; Plate (A36)</td>
<td>1</td>
</tr>
<tr>
<td>1&quot;-6&quot; 3&quot;x3&quot;x3/16 Stub</td>
<td>1</td>
</tr>
<tr>
<td>22 ga. Keeper plate</td>
<td>1</td>
</tr>
<tr>
<td>Plate washer &quot;H&quot;</td>
<td>6</td>
</tr>
<tr>
<td>A325 1/2&quot;x4 3/4&quot; Base plate bolt with nut and (3) hardened washers.</td>
<td>3</td>
</tr>
<tr>
<td>2 3/4&quot;x2 3/4&quot;x3/16&quot; Cover plate</td>
<td>1</td>
</tr>
<tr>
<td>Sign support bracket</td>
<td>1</td>
</tr>
<tr>
<td>Base/stub plate</td>
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</tr>
<tr>
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---

**BREAKAWAY SIGN POST**

- No Scale

- 6" dia. bolt circle

- 22 ga. galv. sheet metal keeper plate with 2" dia. ctr. hole.

**KEEPER**

- No Scale

- 3/8" Dia. hole

- 1" thick plate washer (ASTM A572, Grade 50)

**PLATE "H"**

- No Scale

- 1 1/8" Dia. hole

**BRASS SHIM DETAIL**

Provide 2 @ 0.012" thick and 2 @ 0.032" thick at each bolt.

**POST STUB DETAILS**

- No Scale

- 2 Dia. center hole

- 6" dia. bolt circle with 3 equally spaced bolts.

**OCCUPATIONAL DEPARTMENT OF TRANSPORTATION**

TRAFFIC ENGINEERING & OPERATIONS SECTION

**DATE:**

**NAME:**

**COMMENTS:**
**FILL SLOPE**

**MATERIAL DESCRIPTION**

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>QUANTITY</th>
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<tr>
<td>3(\frac{1}{2}) x 3(\frac{1}{2}) x (\frac{3}{16})</td>
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<tr>
<td>x6(\frac{1}{2})&quot; x(\frac{3}{16})&quot; Plate (A36)</td>
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</tr>
<tr>
<td>1'-9&quot; 3(\frac{1}{2}) x 3(\frac{1}{2}) x (\frac{3}{16})</td>
<td>1</td>
</tr>
<tr>
<td>Stub</td>
<td></td>
</tr>
<tr>
<td>22 ga. Keeper plate</td>
<td>1</td>
</tr>
<tr>
<td>Plate washer &quot;H&quot;</td>
<td>6</td>
</tr>
<tr>
<td>A325 (\frac{3}{8})&quot; x 5&quot; Base plate bolt with</td>
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<tr>
<td>nut and (3) hardened</td>
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<tr>
<td>washers.</td>
<td></td>
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<tr>
<td>(\frac{3}{4})&quot; x (\frac{3}{4})&quot; x (\frac{3}{16})&quot;</td>
<td>1</td>
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<tr>
<td>Cover plate</td>
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<tr>
<td>Sign support bracket</td>
<td>1</td>
</tr>
<tr>
<td>Base/stub plate</td>
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<tr>
<td>Brass shims</td>
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---

**BREAKAWAY SIGN POST**

**KEEPER**

22 ga. galv. sheet metal keeper plate with 2\(\frac{1}{2}\)" dia. ctr. hole.

**BRASS SHIM DETAIL**

Provide 2 @ 0.012" thick and 2 @ 0.032" thick at each bolt.
**CUT SLOPE**

**Breakaway Sign Post**

- Material Description
  - 3\(\frac{1}{2}\) x 3\(\frac{1}{2}\) x 3\(\frac{3}{16}\) Post: 1
  - x 6\(\frac{1}{2}\) "x 3\(\frac{3}{16}\) Plate (A36): 1
  - 1'-9" 3\(\frac{1}{2}\) x 3\(\frac{1}{2}\) x 3\(\frac{3}{16}\) Stub: 1
  - 22 ga. Keeper plate: 1
  - Plate washer "H": 6
  - A325 ¾"x5" Base plate bolt with nut and (3) hardened washers: 3
  - 3\(\frac{1}{4}\)"x3\(\frac{1}{4}\)"x3\(\frac{3}{16}\)" Cover plate: 1
  - Sign support bracket: 1
  - Base/stub plate: 2
  - Brass shims: 4

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**Post Stub Details**

- 2\(\frac{1}{2}\)" Dia. Center hole
- 6\(\frac{3}{4}\)" Dia. bolt circle with 3 equally spaced bolts.

**Keeper**

- 6\(\frac{3}{4}\)" Dia. bolt circle

**Plate "H"**

- 1" Dia. hole

**Brass Shim Detail**

- Provide 2 @ 0.012" thick and 2 @ 0.032" thick at each bolt.
**FILL SLOPE**

**TS 4x4x3/16**

TRIANGULAR BASE BREAKAWAY SIGN SUPPORT

**MATERIAL DESCRIPTION**

<table>
<thead>
<tr>
<th>Material Description</th>
<th>Quantity</th>
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<tr>
<td>4x4x3/16 Post</td>
<td>1</td>
</tr>
<tr>
<td>x1/2&quot;x3/16&quot; Plate (A36)</td>
<td>1</td>
</tr>
<tr>
<td>2'-0&quot; 4x4x3/16 Stub</td>
<td>1</td>
</tr>
<tr>
<td>22 ga. Keeper plate</td>
<td>1</td>
</tr>
<tr>
<td>Plate washer &quot;H&quot;</td>
<td>5</td>
</tr>
<tr>
<td>A325 5/16&quot;x51/2&quot; Base plate bolt with nut and (3) hardened washers.</td>
<td>3</td>
</tr>
<tr>
<td>3/4&quot;x3/4&quot;x3/16&quot; Cover plate</td>
<td>1</td>
</tr>
<tr>
<td>Sign support bracket</td>
<td>1</td>
</tr>
<tr>
<td>Base/stub plate</td>
<td>2</td>
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<tr>
<td>Brass shims</td>
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---

**BREAKAWAY SIGN POST**

No Scale

---

**KEEPER**

No Scale

---

**PLATE "H"**

No Scale

---

**POST STUB DETAILS**

No Scale

---

**OREGON DEPARTMENT OF TRANSPORTATION**

TRAFFIC ENGINEERING & OPERATIONS SECTION

**DATE:**

**NAME:**

**COMMENTS:**

---

**BRASS SHIM DETAIL**

Provide 2 @ 0.012" thick and 2 @ 0.032" thick at each bolt.
CUT SLOPE

TS 4x4x3/16
TRIANGULAR BASE BREAKAWAY SIGN SUPPORT

MATERIAL DESCRIPTION | QUANTITY
--- | ---
4x4x3/16 Post | 1
x7"x3/16" Plate (A36) | 1
2'-0" 4x4x3/16 Stub | 1
22 ga. Keeper plate | 1
Plate washer "H" | 6
A325 5/8"x51/2" Base plate bolt with nut and (3) hardened washers. | 3
33/4"x33/4"x3/16" Cover plate | 1
Sign support bracket | 1
Base/Stub plate | 2
Brass shims | 4

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BREAKAWAY SIGN POST

No Scale

71/2" dia. bolt circle
22 ga. galv. sheet metal keeper plate with 3" dia. ctr. hole.

KEEPER

No Scale

71/2" dia. bolt circle with 3 equally spaced bolts.

POST STUB DETAILS

No Scale

3" Dia. center hole
This face towards high side. 
3/16" Plate (A36)

Note: Post base plate details similar.

PLATE "H"

No Scale

1" thick plate washer (ASTM A522, Grade 50)
1/16" Dia. hole

BRASS SHIM DETAIL

Provide 2 @ 0.012" thick and 2 @ 0.032" thick at each bolt.

1/16" 13/32"
1/32" 13/32"
13/32" 13/32"
**FILL SLOPE**

- TS 5x5 x 3/16
- Triangular base breakaway sign support

**MATERIAL DESCRIPTION**

<table>
<thead>
<tr>
<th>Material</th>
<th>Quantity</th>
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<tbody>
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<td>5x5x3/16 Post</td>
<td>1</td>
</tr>
<tr>
<td>2&quot;-3&quot; 5x5x3/16 Stub</td>
<td>1</td>
</tr>
<tr>
<td>22 ga. Keeper plate</td>
<td>1</td>
</tr>
<tr>
<td>Plate washer &quot;H&quot;</td>
<td>6</td>
</tr>
<tr>
<td>A325 3/4&quot;x5/16&quot; Base plate bolt with nut and (3) hardened washers.</td>
<td>3</td>
</tr>
<tr>
<td>4 1/4&quot;x4 1/4&quot;x3/16&quot; Cover plate</td>
<td>1</td>
</tr>
<tr>
<td>Sign support bracket</td>
<td>1</td>
</tr>
<tr>
<td>Base/stub plate</td>
<td>2</td>
</tr>
<tr>
<td>Brass shims</td>
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---

**BREAKAWAY SIGN POST**

No Scale

- 1" thick plate washer (ASTM A572, Grade 50)
- 1 1/2" dia. bolt circle with 1/4" dia. ctr. hole.

**KEEPER**

No Scale

- 1 1/2" Dia. hole
- 1" thick plate washer (ASTM A572, Grade 50)

**BRASS SHIM DETAIL**

Provide 2 @ 0.012" thick and 2 @ 0.032" thick at each bolt.

**POST STUB DETAILS**

No Scale

- 4" Dia. center hole
- 9" dia. bolt circle with 3 equally spaced bolts.

**DIRECTION OF TRAFFIC**

This face towards high side.

**OREGON DEPARTMENT OF TRANSPORTATION**

TRAFFIC ENGINEERING & OPERATIONS SECTION

**DATE:**

**NAME:**

**COMMENTS:**
**FILL SLOPE**

**TRIANGULAR BASE BREAKAWAY SIGN SUPPORT**

<table>
<thead>
<tr>
<th>MATERIAL DESCRIPTION</th>
<th>QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>6x6x3/16 Post</td>
<td>1</td>
</tr>
<tr>
<td>x9&quot;x3/16&quot; Plate (A36)</td>
<td>1</td>
</tr>
<tr>
<td>2&quot;-6&quot; 6x6x3/16 Stub</td>
<td>1</td>
</tr>
<tr>
<td>22 ga. Keeper plate</td>
<td>1</td>
</tr>
<tr>
<td>Plate washer &quot;H&quot;</td>
<td>6</td>
</tr>
<tr>
<td>A325 7/8&quot;x61/4&quot; Base plate bolt with nut and (3) hardened washers.</td>
<td>3</td>
</tr>
<tr>
<td>53/4&quot;x53/4&quot;x37/16&quot; Cover plate</td>
<td>1</td>
</tr>
<tr>
<td>Sign support bracket</td>
<td>1</td>
</tr>
<tr>
<td>Base/stub plate</td>
<td>2</td>
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**BREAKAWAY SIGN POST**

**POST STUB DETAILS**

**OREGON DEPARTMENT OF TRANSPORTATION**
TRAFFIC ENGINEERING & OPERATIONS SECTION

**DATE:**

**NAME:**

**COMMENTS:**
**CUT SLOPE**

- 6x6x3/16
- Post width
- 3/16" Cover Plate (A36)
- 3/16" Plate (A36)
- 2"-6" 6x6x3/16 Stub
- 22 ga. Keeper plate
- Plate washer "H"
- A325 7/8"x6 1/2" Base plate bolt with nut and (3) hardened washers.
- 5 3/4"x5 3/4"x3/16" Cover plate
- Sign support bracket
- Base/stub plate
- Brass shims

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---

**BREAKAWAY SIGN POST**

- No Scale
- 10 1/2" dia. bolt circle
- 22 ga. galv. sheet metal keeper plate with 5" dia. ctr. hole.

**KEEPER**

- No Scale
- 3 1/2"
- 1 1/16" Dia. hole

**PLATE "H"**

- No Scale
- 7/8"
- 1 1/8"
- 15 1/2"
- 15 1/2"

**POST STUB DETAILS**

- No Scale
- 5" Dia. center hole
- 10 1/2" dia. bolt circle with 3 equally spaced bolts.

**BRASS SHIM DETAIL**

- Provide 2 @ 0.012" thick and 2 @ 0.032" thick at each bolt.
FILL SLOPE

BREAKAWAY SIGN POST

POST STUB DETAILS

BRASS SHIM DETAIL

NOTE: All dimensions are in inches (in.) except as noted.

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CUT SLOPE

MATERIAL DESCRIPTION | QUANTITY
--- | ---
7"x7"x3/16 Post | 1
x10"x3/16" Plate (A36) | 1
3'-0" 7"x7"x3/16 Stub | 1
22 ga. Keeper plate | 1
Plate washer "H" | 6
A325 1/2"x6 1/4" Base plate bolt with nut and (3) hardened washers. | 3
6 3/4"x6 3/4"x3/16" Cover plate | 1
Sign support bracket | 1
Base/stub plate | 2
Brass shims | 4

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BREAKAWAY SIGN POST

No Scale

12" dia. bolt circle

22 ga. galv. sheet metal keeper plate with 6" dia. ctr. hole.

POST STUB DETAILS

No Scale

6" Dia. center hole

This face towards high side.

12" dia. bolt circle with 3 equally spaced bolts.

Note: Post base plate details similar.

BRASS SHIM DETAIL

Provide 2 @ 0.012" thick and 2 @ 0.032" thick at each bolt.

PLATE "H"

No Scale

1 1/4" Dia. hole

1/16" Dia. hole

2 1/16" Diameter plate washer (ASTM A572, Grade 50)

KEEPER

No Scale

1" dia. bolt circle

1 1/8"

TS 7x7x3/16

TRIANGULAR BASE BREAKAWAY SIGN SUPPORT

JOB:

SIGN NUMBER:

CONTRACT NO.

OREGON DEPARTMENT OF TRANSPORTATION
TRAFFIC ENGINEERING & OPERATIONS SECTION

DATE:__________________

NAME:__________________

COMMENTS:
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CUT SLOPE

MATERIAL DESCRIPTION | QUANTITY
---|---
8\( \times \)8\( \times \frac{3}{16} \) Post | 1
x11\( \times \frac{3}{16} \) Plate (A36) | 1
3\( \times \)6" 8\( \times \)8\( \times \frac{3}{16} \) Stub | 1
22 ga. Keeper plate | 1
Plate washer "H" | 6
A325 1"x6\( \frac{3}{4} \)" Base plate bolt with nut and (3) hardened washers. | 3
1\( \frac{1}{4} \)"x7\( \frac{3}{4} \)"x\( \frac{3}{16} \)" Cover plate | 1
Sign support bracket | 1
Base/stub plate | 2
Brass shims | 4

NOTE: All dimensions are in inches (in.) except as noted.

NOTE: REFER TO ODOT STD. DWG. NO. TM602 FOR COMPLETE INSTALLATION DETAILS, WELDING REQUIREMENTS AND ADDITIONAL GENERAL SPECIFICATIONS.

BREAKAWAY SIGN POST

No Scale

1\( \frac{1}{2} \)" dia. bolt circle

22 ga. galv. sheet metal keeper plate with 7" dia. ctr. hole.

KEEPER

No Scale

POST STUB DETAILS

No Scale

Plate "H"

Provide 2 @ 0.012" thick and 2 @ 0.032" thick at each bolt.

Plate "H"

Provide 2 @ 0.012" thick and 2 @ 0.032" thick at each bolt.
TS 3x3x3/16 ("H")
TRIANGULAR BASE BREAKAWAY SIGN SUPPORT

CUT SLOPE

MATERIAL DESCRIPTION | QUANTITY
--- | ---
3x3x3/16 Post | 1
3x3x3/16 Horiz. Arm | 1
1'-6" 3x3x3/16 Stub | 1
5x3x5.7 Vertical Supports | 2
"H" Plates | 6
A325 1/2"x4 3/4" Base plate bolt with nut and (3) hardened washers. | 3
22 ga. Keeper plate | 1
Post/stub base plate | 2
Brass shims | 4
7"x7"x1/2" "H" Frame plates | 2
5/8"x2" "H" Frame bolt w/ nut and washer. | 4

NOTE: All dimensions are in inches (in.) except as noted.

NOTE: REFER TO ODOT STD. DWG. NO. TM602 FOR COMPLETE INSTALLATION DETAILS, WELDING REQUIREMENTS AND ADDITIONAL GENERAL SPECIFICATIONS.

BREAKAWAY SIGN POST

No Scale

22 ga. galv. sheet metal keeper plate with 2" dia. ctr. hole.

KEEPER

No Scale

POST STUB DETAILS

No Scale

POST STUB DETAILS

No Scale
**FILL SLOPE**

TS 3\(\frac{1}{2}\) x 3\(\frac{1}{2}\) x 3\(\frac{1}{16}\) ("H")

TRIANGULAR BASE BREAKAWAY SIGN SUPPORT

---

**MATERIAL DESCRIPTION**

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>3(\frac{1}{2}) x 3(\frac{1}{2}) x 3(\frac{1}{16}) Post</td>
<td>1</td>
</tr>
<tr>
<td>3(\frac{1}{3}) x 3(\frac{1}{16}) Horiz. Arm</td>
<td>1</td>
</tr>
<tr>
<td>1&quot; - 9&quot; 3(\frac{1}{2}) x 3(\frac{1}{2}) x 3(\frac{1}{16}) Stub</td>
<td>1</td>
</tr>
<tr>
<td>5(\frac{3}{4}) x 5.7 Vertical Supports</td>
<td>2</td>
</tr>
<tr>
<td>&quot;H&quot; Plates</td>
<td>6</td>
</tr>
<tr>
<td>A325 (\frac{3}{8})&quot; x 5&quot; Base plate bolt with nut and (3) hardened washers.</td>
<td>3</td>
</tr>
<tr>
<td>22 ga. Keeper plate</td>
<td>1</td>
</tr>
<tr>
<td>Post/stub base plate</td>
<td>2</td>
</tr>
<tr>
<td>Brass shims</td>
<td>4</td>
</tr>
<tr>
<td>7(\frac{1}{2})&quot; x 7(\frac{1}{2})&quot; x 1(\frac{1}{2})&quot; &quot;H&quot; Frame plates</td>
<td>2</td>
</tr>
<tr>
<td>(\frac{5}{8})&quot; x 2&quot; &quot;H&quot; Frame bolt w/ nut and washer.</td>
<td>4</td>
</tr>
</tbody>
</table>

**NOTE:** All dimensions are in inches (in.) except as noted.

**NOTE:** REFER TO ODOT STD. DWG. NO. TM602 FOR COMPLETE INSTALLATION DETAILS, WELDING REQUIREMENTS AND ADDITIONAL GENERAL SPECIFICATIONS.
**TS 31/2 x 31/2 x 3 1/16 ("H")**
TRIANGULAR BASE BREAKAWAY SIGN SUPPORT

---

**CUT SLOPE**

- 2" x 2"

- TS 3x3 1/16

- 7 1/2" x 7 1/2" x 1/2" "H" Frame connection plates (See Dwg. No. TM602 for details)

- TS 3 1/2 x 3 1/2 x 3 1/16

- 8- #4 Vert. bars w/ std. 90° hk, top end

- TS 3 1/2 x 3 1/2 x 3 1/16 Stub

---

**BREAKAWAY SIGN POST**

No Scale

- 6 3/4" dia. bolt circle

- 7/8"

- 2 1/2"

---

**KEEPER**

No Scale

- 6 3/4" dia. bolt circle with 3 equally spaced bolts.

- 2 1/2" Dia. center hole

- R: 1 1/32" post stub

- This face towards high side.

---

**POST STUB DETAILS**

No Scale

- 1" thick plate washer (ASTM A572, Grade 50)

---

**PLATE "H"**

No Scale

- 1 1/16" Dia. hole

- 1 1/4"

---

**BRASS SHIM DETAIL**

Provide 2 @ 0.012" thick and 2 @ 0.032" thick at each bolt.

---

**MATERIAL DESCRIPTION**

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 1/2 x 3 1/2 x 3 1/16 Post</td>
<td>1</td>
</tr>
<tr>
<td>3 x 3 1/16 Horiz. Arm</td>
<td>1</td>
</tr>
<tr>
<td>1'-9&quot; 3 1/2 x 3 1/2 x 3 1/16 Stub</td>
<td>1</td>
</tr>
<tr>
<td>S3 x 5.7 Vertical Supports</td>
<td>2</td>
</tr>
<tr>
<td>&quot;H&quot; Plates</td>
<td>6</td>
</tr>
<tr>
<td>A325 5/8&quot; x 5&quot; Base plate bolt with</td>
<td>3</td>
</tr>
<tr>
<td>nut and (3) hardened washers.</td>
<td></td>
</tr>
<tr>
<td>22 ga. Keeper plate</td>
<td>1</td>
</tr>
<tr>
<td>Post/stub base plate</td>
<td>2</td>
</tr>
<tr>
<td>Brass shims</td>
<td>4</td>
</tr>
<tr>
<td>7 1/2&quot; x 7 1/2&quot; x 1/2&quot; &quot;H&quot; Frame plates</td>
<td>2</td>
</tr>
<tr>
<td>5/8&quot; x 2&quot; &quot;H&quot; Frame bolt w/ nut</td>
<td>4</td>
</tr>
<tr>
<td>and washer.</td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:** All dimensions are in inches (in.) except as noted.

**NOTE:** REFER TO ODOT STD. DWG. NO. TM602 FOR COMPLETE INSTALLATION DETAILS, WELDING REQUIREMENTS AND ADDITIONAL GENERAL SPECIFICATIONS.

---

**OREGON DEPARTMENT OF TRANSPORTATION**
TRAFFIC ENGINEERING & OPERATIONS SECTION

**DATE:**

**NAME:**

**COMMENTS:**
**TS 4x4x3/16 ("H")**

**TRIANGULAR BASE BREAKAWAY SIGN SUPPORT**

**FILL SLOPE**

8"x8"x1/2" "H" Frame connection plates (See Dwg. No. TM602 for details)

---

**BREAKAWAY SIGN POST**

No Scale

7 1/2" dia. bolt circle

1 1/16" Dia. hole

1/16" thick plate washer (ASTM A572, Grade 50)

---

**KEEPER**

No Scale

22 ga. galv. sheet metal keeper plate with 3" dia. ctr. hole.

---

**PLATE "H"**

No Scale

1/16" Dia. hole

---

**BRASS SHIM DETAIL**

Provide 2 @ 0.012" thick and 2 @ 0.032" thick at each bolt.

---

**MATERIAL DESCRIPTION**

<table>
<thead>
<tr>
<th>Material Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>4x4x3/16 Post</td>
<td>1</td>
</tr>
<tr>
<td>3x3x3/16 Horiz. Arm</td>
<td>1</td>
</tr>
<tr>
<td>2'-0&quot; 4x4x3/16 Stub</td>
<td>1</td>
</tr>
<tr>
<td>S3x5.7 Vertical Supports</td>
<td>2</td>
</tr>
<tr>
<td>&quot;H&quot; Plates</td>
<td>6</td>
</tr>
<tr>
<td>A325 5/8&quot;x5 1/2&quot; Base plate bolt nut and (3) hardened washers.</td>
<td>3</td>
</tr>
<tr>
<td>22 ga. Keeper plate</td>
<td>1</td>
</tr>
<tr>
<td>Post/stub base plate</td>
<td>2</td>
</tr>
<tr>
<td>Brass shims</td>
<td>4</td>
</tr>
<tr>
<td>8&quot;x8&quot;x1/2&quot; &quot;H&quot; Frame plates</td>
<td>2</td>
</tr>
<tr>
<td>5/8&quot;x2&quot; &quot;H&quot; Frame bolt w/ nut and washer.</td>
<td>4</td>
</tr>
</tbody>
</table>

**NOTE:** All dimensions are in inches (in.) except as noted.

**NOTE:** REFER TO ODOT STD. DWG. NO. TM602 FOR COMPLETE INSTALLATION DETAILS, WELDING REQUIREMENTS AND ADDITIONAL GENERAL SPECIFICATIONS.

---

**POST STUB DETAILS**

No Scale

3" Dia. center hole

R=1 1/2" 7 1/2" dia. bolt circle with 3 equally spaced bolts.

Post stub

---

**OREGON DEPARTMENT OF TRANSPORTATION**

**TRAFFIC ENGINEERING & OPERATIONS SECTION**

**DATE:**

**NAME:**

**COMMENTS:**
TS 5x5x3/16 ("H")
TRIANGULAR BASE BREAKAWAY SIGN SUPPORT

FILL SLOPE

MATERIAL DESCRIPTION | QUANTITY
--- | ---
5x5x3/16 Post | 1
3x3x3/16 Horiz. Arm | 1
2'-3" 5x5x3/16 Stub | 1
S3x5.7 Vertical Supports | 2
"H" Plates | 6
A325 7/8"x5/8" Base plate bolt with nut and (3) hardened washers. | 3
22 ga. Keeper plate | 1
Post/stub base plate | 2
Brass shims | 4
9"x9"x3/4" "H" Frame plates | 2
5/8"x2" "H" Frame bolt w/ nut and washer. | 4

NOTE: All dimensions are in inches (in.) except as noted.

NOTE: REFER TO ODOT STD. DWG. NO. TM602 FOR COMPLETE INSTALLATION DETAILS, WELDING REQUIREMENTS AND ADDITIONAL GENERAL SPECIFICATIONS.

BREAKEWAY SIGN POST

No Scale

BREAKAWAY SIGN POST

No Scale

KEEPER

No Scale

PLATE "H"

No Scale

POST STUB DETAILS

No Scale

BRASS SHIM DETAIL

Provide 2 @ 0.012" thick and 2 @ 0.032" thick at each bolt.
**Material Description**

<table>
<thead>
<tr>
<th>Material Description</th>
<th>Quantity</th>
</tr>
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<tbody>
<tr>
<td>5x5 3/16 Post</td>
<td>1</td>
</tr>
<tr>
<td>3x3 3/16 Horiz. Arm</td>
<td>1</td>
</tr>
<tr>
<td>2’-3” 5x5 3/16 Stub</td>
<td>1</td>
</tr>
<tr>
<td>5x3x5.7 Vertical Supports</td>
<td>2</td>
</tr>
<tr>
<td>“H” Plates</td>
<td>6</td>
</tr>
<tr>
<td>A325 3/8”x5 1/2” Base plate bolt w/ nut and (3) hardened washers.</td>
<td>3</td>
</tr>
<tr>
<td>22 ga. Keeper plate</td>
<td>1</td>
</tr>
<tr>
<td>Post/stub base plate</td>
<td>2</td>
</tr>
<tr>
<td>Brass shims</td>
<td>4</td>
</tr>
<tr>
<td>9”x9”x1/2” “H” Frame plates</td>
<td>2</td>
</tr>
<tr>
<td>5/8”x2” “H” Frame bolt w/ nut and washer.</td>
<td>4</td>
</tr>
</tbody>
</table>

**NOTE:** All dimensions are in inches (in.) except as noted.

**NOTE:** REFER TO ODOT STD. DWG. NO. TM602 FOR COMPLETE INSTALLATION DETAILS, WELDING REQUIREMENTS AND ADDITIONAL GENERAL SPECIFICATIONS.

**Breakaway Sign Post**

No Scale

- 9" dia. bolt circle
- 22 ga. galv. sheet metal keeper plate with 4” dia. ctr. hole.

**Keeper**

No Scale

**POST STUB DETAILS**

No Scale

**Diagram Notes:**
- 4” Dia. center hole
- 9” dia. bolt circle with 3 equally spaced bolts.
- Note: Post base plate details similar.

**Plate “H”**

No Scale

- 1 1/2” Dia. hole
- 1” thick plate washer (ASTM A572, Grade 50)

**Brass Shim Detail**

- Provide 2 @ 0.012” thick and 2 @ 0.032” thick at each bolt.

**Oregon Department of Transportation**

Traffic Engineering & Operations Section

**DATE:**

**NAME:**

**COMMENTS:**
**FILL SLOPE**

**TRIANGULAR BASE BREAKAWAY SIGN SUPPORT**

---

**MATERIAL DESCRIPTION | QUANTITY**
---|---
6x6x3/16 Post | 1
3x3x3/16 Horiz. Arm | 1
2'-6" 6x6x3/16 Stub | 1
S3x5.7 Vertical Supports | 2
"H" Plates | 6
A325 7/16"x61/4" Base plate bolt with nut and (3) hardened washers. | 3
22 ga. Keeper plate | 1
Post/stub base plate | 2
Brass shims | 4
10"x10"x1/2" "H" Frame plates | 2
5/8"x2" "H" Frame bolt w/ nut and washer | 4

---

**NOTE:** All dimensions are in inches (in.) except as noted.

**NOTE:** REFER TO ODOT STD. DWG. NO. TM602 FOR COMPLETE INSTALLATION DETAILS, WELDING REQUIREMENTS AND ADDITIONAL GENERAL SPECIFICATIONS.

---

**BREAKAWAY SIGN POST**

No Scale

---

22 ga. galv. sheet metal keeper plate with 5" dia. ctr. hole.

---

**KEEPER**

No Scale

---

**PLATE "H"**

No Scale

---

**POST STUB DETAILS**

No Scale

---

**NOTE:** Post base plate details similar.

---

**OCC**

OREGON DEPARTMENT OF TRANSPORTATION
TRAFFIC ENGINEERING & OPERATIONS SECTION

---

**DATE: __________________**

**NAME: __________________**

**COMMENTS: __________________**
**TS 6x6x3/16 ("H")**

**TRIANGULAR BASE BREAKAWAY SIGN SUPPORT**

**CUT SLOPE**

- **MATERIAL DESCRIPTION**
  - 6x6x3/16 Post
  - 3x3x3/16 Horiz. Arm
  - 2'-6" 6x6x3/16 Stub
  - S3x5.7 Vertical Supports
  - "H" Plates
  - A325 7/8"x61/4" Base plate bolt with nut and (3) hardened washers.
  - 22 ga. Keeper plate
  - Post/stub base plate
  - Brass shims
  - 10"x10"x1/2" "H" Frame plates
  - 5/8"x2" "H" Frame bolt w/ nut and washer

**NOTE:** All dimensions are in inches (in.) except as noted.

**NOTE:** REFER TO ODOT STD. DWG. NO. TM602 FOR COMPLETE INSTALLATION DETAILS, WELDING REQUIREMENTS AND ADDITIONAL GENERAL SPECIFICATIONS.

**BREAKAWAY SIGN POST**

- No Scale

- 10 1/2" dia. bolt circle

- 22 ga. galv. sheet metal keeper plate with 5" dia. ctr. hole.

**KEEPER**

- No Scale

- 3 1/2" Dia. hole

- 1" thick plate washer (ASTM A572, Grade 50)

**PLATE "H"**

- No Scale

**POST STUB DETAILS**

- No Scale

- 5" Dia. center hole

- 10 1/2" dia. bolt circle with 3 equally spaced bolts.


**DATE:**

**NAME:**

**COMMENTS:**
## Material Description

<table>
<thead>
<tr>
<th>Material Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>7x7x3/16 Post</td>
<td>1</td>
</tr>
<tr>
<td>4x4x3/16 Horiz. Arm</td>
<td>1</td>
</tr>
<tr>
<td>3'-0&quot; 7x7x3/16 Stub</td>
<td>1</td>
</tr>
<tr>
<td>53x5.7 Vertical Supports</td>
<td>2</td>
</tr>
<tr>
<td>&quot;H&quot; Plates</td>
<td>6</td>
</tr>
<tr>
<td>A325 7/8&quot;x6 1/4&quot; Base plate bolt w/ nut and 3 hardened washers.</td>
<td>3</td>
</tr>
<tr>
<td>22 ga. Keeper plate</td>
<td>1</td>
</tr>
<tr>
<td>Post/stub base plate</td>
<td>2</td>
</tr>
<tr>
<td>Brass shims</td>
<td>4</td>
</tr>
<tr>
<td>11&quot;x11&quot;x1/2&quot; &quot;H&quot; Frame plates</td>
<td>2</td>
</tr>
<tr>
<td>5/8&quot;x2&quot; &quot;H&quot; Frame bolt w/nut and washer.</td>
<td>4</td>
</tr>
</tbody>
</table>

**NOTE:** All dimensions are in inches (in.) except as noted.

**NOTE:** REFER TO ODOT STD. DWG. NO. TM602 FOR COMPLETE INSTALLATION DETAILS, WELDING REQUIREMENTS AND ADDITIONAL GENERAL SPECIFICATIONS.

---

**Post Stub Details**

- Post base plate details similar.
- 12" dia. bolt circle with 3 equally spaced bolts.
- Post stub

---

**Brass Shim Detail**

Provide 2 @ 0.012" thick and 2 @ 0.032" thick at each bolt.
**CUT SLOPE**

**MATERIAL DESCRIPTION**

<table>
<thead>
<tr>
<th>Material</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>7x7x3/16 Post</td>
<td>1</td>
</tr>
<tr>
<td>4x4x3/16 Horiz. Arm</td>
<td>1</td>
</tr>
<tr>
<td>3'-0&quot; 7x7x3/16 Stub</td>
<td>1</td>
</tr>
<tr>
<td>5x3x5.7 Vertical Supports</td>
<td>2</td>
</tr>
<tr>
<td>&quot;H&quot; Plates</td>
<td>6</td>
</tr>
<tr>
<td>A325 5/8&quot;x6 1/4&quot; Base plate</td>
<td>3</td>
</tr>
<tr>
<td>with nut and (3) hardened</td>
<td></td>
</tr>
<tr>
<td>washers.</td>
<td></td>
</tr>
<tr>
<td>22 ga. Keeper plate</td>
<td>1</td>
</tr>
<tr>
<td>Post/stub base plate</td>
<td>2</td>
</tr>
<tr>
<td>Brass shims</td>
<td>4</td>
</tr>
<tr>
<td>11&quot;x11&quot;x1/2&quot; &quot;H&quot; Frame plates</td>
<td>2</td>
</tr>
<tr>
<td>5/8&quot;x2&quot; &quot;H&quot; Frame bolt w/ nut</td>
<td></td>
</tr>
<tr>
<td>and washer.</td>
<td></td>
</tr>
</tbody>
</table>

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---

**BREAKAWAY SIGN POST**

- 12" dia. bolt circle
- 22 ga. galv. sheet metal keeper plate with 6" dia. ctr. hole.

---

**KEEPER**

- No Scale

---

**POST STUB DETAILS**

- 6" Dia. center hole
- 12" dia. bolt circle with 3 equally spaced bolts.
- Post stub

---

**OREGON DEPARTMENT OF TRANSPORTATION**

**TRAFFIC ENGINEERING & OPERATIONS SECTION**

**DATE:**

**NAME:**

**COMMENTS:**
**TS 8x8x3\(\frac{3}{16}\) ("H")**

**TRIANGULAR BASE BREAKAWAY SIGN SUPPORT**

**FILL SLOPE**

12"x12"x\(\frac{5}{16}\) "H" Frame connection plates (See Dwg. No. TM602 for details)

**TS 8x8x3\(\frac{3}{16}\)**

**TS 5x5x3\(\frac{3}{16}\)**

**S3x5.7 Vertical Supports**

**MATERIAL DESCRIPTION**

<table>
<thead>
<tr>
<th>Material Description</th>
<th>Quantity</th>
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</thead>
<tbody>
<tr>
<td>8x8x(\frac{3}{16}) Post</td>
<td>1</td>
</tr>
<tr>
<td>5x5x(\frac{3}{16}) Horiz. Arm</td>
<td>1</td>
</tr>
<tr>
<td>3'-6&quot; 8x8x(\frac{3}{16}) Stub</td>
<td>1</td>
</tr>
<tr>
<td>S3x5.7 Vertical Supports</td>
<td>2</td>
</tr>
<tr>
<td>&quot;H&quot; Plates</td>
<td>6</td>
</tr>
<tr>
<td>A325 1&quot;x6(\frac{3}{4}) Base plate bolt with with nut and (3) hardened washers.</td>
<td>3</td>
</tr>
<tr>
<td>22 ga. Keeper plate</td>
<td>1</td>
</tr>
<tr>
<td>Post/stub base plate</td>
<td>2</td>
</tr>
<tr>
<td>Brass shims</td>
<td>4</td>
</tr>
<tr>
<td>12&quot;x12&quot;x(\frac{1}{2}) &quot;H&quot; Frame plates</td>
<td>2</td>
</tr>
<tr>
<td>(\frac{5}{8})&quot;x2&quot; &quot;H&quot; Frame bolt w/ nut and washer.</td>
<td>4</td>
</tr>
</tbody>
</table>

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**BREAKAWAY SIGN POST**

No Scale

22 ga. galv. sheet metal keeper plate with 7" dia. ctr. hole.

Note: Post base plate details similar.

**POST STUB DETAILS**

No Scale

**PLATE "H"**

1" thick plate washer (ASTM A572, Grade 50)

**KEEPER**

No Scale

1'-1\(\frac{1}{2}\)" dia. bolt circle

**BRASS SHIM DETAIL**

Provide 2 @ 0.012" thick and 2 @ 0.032" thick at each bolt.

**DIRECTION OF TRAFFIC**

This face towards high side.

R=\(\frac{11}{16}\)"

1'-1\(\frac{1}{2}\)" dia. bolt circle with 3 equally spaced bolts.

**O R E G O N  D E P A R T M E N T  O F  T R A N S P O R T A T I O N**

**TRAFFIC ENGINEERING & OPERATIONS SECTION**

**DATE:**

**NAME:**

**COMMENTS:**
**TS 8x8x3/16 ("H")**

**TRIANGULAR BASE BREAKAWAY SIGN SUPPORT**

### CUT SLOPE

**MATERIAL DESCRIPTION**

<table>
<thead>
<tr>
<th>Material</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>8x8x3/16 Post</td>
<td>1</td>
</tr>
<tr>
<td>5x5x3/16 Horiz. Arm</td>
<td>1</td>
</tr>
<tr>
<td>3'-6&quot; 8x8x3/16 Stub</td>
<td>1</td>
</tr>
<tr>
<td>S3x5.7 Vertical Supports</td>
<td>2</td>
</tr>
<tr>
<td>&quot;H&quot; Plates</td>
<td>6</td>
</tr>
<tr>
<td>A325 1&quot;x6¾&quot; Base plate bolt with nut and (3) hardened washers</td>
<td>3</td>
</tr>
<tr>
<td>22 ga. Keeper plate</td>
<td>1</td>
</tr>
<tr>
<td>Post/stub base plate</td>
<td>2</td>
</tr>
<tr>
<td>Brass shims</td>
<td>4</td>
</tr>
<tr>
<td>12&quot;x12&quot;x¾&quot; &quot;H&quot; Frame plates</td>
<td>2</td>
</tr>
<tr>
<td>5/8&quot;x2&quot; &quot;H&quot; Frame bolt w/ nut and washer</td>
<td>4</td>
</tr>
</tbody>
</table>

**NOTE:** All dimensions are in inches (in.) except as noted.

**NOTE:** REFER TO ODOT STD. DWG. NO. TM602 FOR COMPLETE INSTALLATION DETAILS, WELDING REQUIREMENTS AND ADDITIONAL GENERAL SPECIFICATIONS.

### BREAKAWAY SIGN POST

**No Scale**

- 1'-1½" dia. bolt circle
- 1" thick plate washer (ASTM A572, Grade 50)

### KEEPER

**No Scale**

- 22 ga. galv. sheet metal keeper plate with 7" dia. ctr. hole

### POST STUB DETAILS

**No Scale**

- Post base plate details similar

### BRASS SHIM DETAIL

**Provide 2 @ 0.012" thick and 2 @ 0.032" thick at each bolt.**
W6x12
MULTI-POST BREAKAWAY SIGN SUPPORT

MATERIAL DESCRIPTION | QUANTITY
--- | ---
W6x12 Upper support | 1
W6x12 Lower support | 1
2'-4" W6x12 Stub | 1
4"x5½"x⅞" Slip Plate | 1
4"x7½"x⅞" Hinge Plate | 1
A325 ¾"x2" Hinge bolts with nut, hardened and D.T.I. washers | 8
A325 ⅞"x4½" Base plate bolt with nut and hardened washer | 4
"H" Plates | 4
Shims | 4
22 ga. Keeper plate | 1
10"x4½"x1" Base/stub plate | 2

BREAKEWAY SIGN POST
No Scale

PLATE "H"
No Scale

BRASS SHIM DETAIL
No Scale
Provide 2 @ 0.012" thick and 2 @ 0.032" thick at each bolt.

BASE PLATE
No Scale

KEEPER
No Scale

NOTE: All dimensions are in inches (in.) except as noted.

NOTE: REFER TO STD. DWGS. TM600 & 601 FOR COMPLETE INSTALLATION DETAILS, WELDING REQUIREMENTS AND ADDITIONAL GENERAL SPECS.

OREGON DEPARTMENT OF TRANSPORTATION
TRAFFIC ENGINEERING & OPERATIONS SECTION
DATE: ___________________________
NAME: ___________________________
COMMENTS: ___________________________
**BREAKAWAY SIGN POST**

**PLATE “H”**

Provide 2 @ 0.012” thick and 2 @ 0.032” thick at each bolt.

**BRASS SHIM DETAIL**

**BASE PLATE**

1” Thickness

**KEEPER**

22 ga. sheet metal keeper with 13/16” dia. holes

NOTE: Refer to std. dwgs. TM600 & 601 for complete installation details, welding requirements and additional general specs.

**POST HINGE DETAILS**

NOTE: All dimensions are in inches (in.) except as noted.

**MATERIAL DESCRIPTION**

<table>
<thead>
<tr>
<th>MATERIAL DESCRIPTION</th>
<th>QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>W6x15 Upper support</td>
<td>1</td>
</tr>
<tr>
<td>W6x15 Lower support</td>
<td>1</td>
</tr>
<tr>
<td>2”-8” W6x15 Stub</td>
<td>1</td>
</tr>
<tr>
<td>6”x5 3/8”x1/2” Slip Plate</td>
<td>1</td>
</tr>
<tr>
<td>6”x7”x3/8” Hinge Plate</td>
<td>1</td>
</tr>
<tr>
<td>A325 7/8”x2 1/2” Hinge bolts with nut, hardened and D.T.I. washers</td>
<td>8</td>
</tr>
<tr>
<td>A325 3/4”x4 1/2” Base plate bolt with nut and hardened washer</td>
<td>4</td>
</tr>
<tr>
<td>“H” Plates</td>
<td>4</td>
</tr>
<tr>
<td>Shims</td>
<td>4</td>
</tr>
<tr>
<td>22 ga. Keeper plate</td>
<td>1</td>
</tr>
<tr>
<td>10 1/4”x6 1/4”x1” Base/stub plate</td>
<td>2</td>
</tr>
</tbody>
</table>

Rad. 1 1/4” rounding of flange corners both sides of hinge @ as shown (Flange away from rdwy. only)
**W8x21**

**MULTI-POST BREAKAWAY SIGN SUPPORT**

---

**MATERIAL DESCRIPTION**

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>W8x21 Upper support</td>
<td>1</td>
</tr>
<tr>
<td>W8x21 Lower support</td>
<td>1</td>
</tr>
<tr>
<td>3'–4' W8x21 Stub</td>
<td>1</td>
</tr>
<tr>
<td>5 1/4&quot;x5 1/2&quot;x5 1/2&quot; Slip Plate</td>
<td>1</td>
</tr>
<tr>
<td>5 1/4&quot;x7 1/2&quot; Hinge Plate</td>
<td>1</td>
</tr>
<tr>
<td>A325 1&quot;x2 3/4&quot; Hinge bolts with nut,</td>
<td>8</td>
</tr>
<tr>
<td>hardened and D.T.I. washers</td>
<td></td>
</tr>
<tr>
<td>A325 3/8&quot;x5 1/4&quot; Base plate bolt with</td>
<td>4</td>
</tr>
<tr>
<td>nut and hardened washer</td>
<td></td>
</tr>
<tr>
<td>&quot;H&quot; Plates</td>
<td>4</td>
</tr>
<tr>
<td>Shims</td>
<td></td>
</tr>
<tr>
<td>22 ga. Keeper plate</td>
<td></td>
</tr>
<tr>
<td>1 1/4&quot;x6&quot;x1 3/16&quot; Base/stub plate</td>
<td>2</td>
</tr>
</tbody>
</table>

---

**BREAKAWAY SIGN POST**

No Scale

---

**POST HINGE DETAILS**

No Scale

**NOTE:** All dimensions are in inches (in.) except as noted.

---

**PLATE "H"**

No Scale

---

**BRASS SHIM DETAIL**

Provide 2 @ 0.012" thick and 2 @ 0.032" thick at each bolt.

---

**BASE PLATE**

No Scale

**NOTE:** Notch post base plate only.

---

**KEEPER**

No Scale

---

**OREGON DEPARTMENT OF TRANSPORTATION**

TRAFFIC ENGINEERING & OPERATIONS SECTION

---

**DATE:**

**NAME:**

**COMMENTS:**
**W10x22**

**MULTI-POST BREAKAWAY SIGN SUPPORT**

**BREAKEWAY SIGN POST**

**No Scale**

**PLATE “H”**

**No Scale**

**BRASS SHIM DETAIL**

**No Scale**

**BASE PLATE**

**No Scale**

**NOTE:** Notch post base plate only.

---

**POST HINGE DETAILS**

**No Scale**

**NOTE:** All dimensions are in inches (in.) except as noted.

---

**MATERIAL DESCRIPTION**

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
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</thead>
<tbody>
<tr>
<td>W10x22 Upper support</td>
<td>1</td>
</tr>
<tr>
<td>W10x22 Lower support</td>
<td>1</td>
</tr>
<tr>
<td>3’-8” W10x22 Stub</td>
<td>1</td>
</tr>
<tr>
<td>5¾”x5½”x5¾” Slip Plate</td>
<td>1</td>
</tr>
<tr>
<td>5¾”x7”x½” Hinge Plate</td>
<td>1</td>
</tr>
<tr>
<td>A325 1”x2¾” Hinge bolts with nut, hardened and O.T.I. washers</td>
<td>8</td>
</tr>
<tr>
<td>A325 7/8”x5¼” Base plate bolt with nut and hardened washer</td>
<td>4</td>
</tr>
<tr>
<td>“H” Plates</td>
<td>4</td>
</tr>
<tr>
<td>Shims</td>
<td>4</td>
</tr>
<tr>
<td>22 ga. Keeper plate</td>
<td>1</td>
</tr>
<tr>
<td>1’-3½”x6”x1½” Base/stub plate</td>
<td>2</td>
</tr>
</tbody>
</table>

---

**NOTE:** REFER TO STD. DWGS. TM600 & 601 FOR COMPLETE INSTALLATION DETAILS, WELDING REQUIREMENTS AND ADDITIONAL GENERAL SPECS.

---

**OREGON DEPARTMENT OF TRANSPORTATION**

**TRAFFIC ENGINEERING & OPERATIONS SECTION**

**DATE:**

**NAME:**

**COMMENTS:**
MULTI-POST BREAKAWAY SIGN SUPPORT

W12x26

JOE:

CONTRACT NO.

SIGN NUMBER:

L C R (Circle one)

MATERIAL DESCRIPTION | QUANTITY
--- | ---
W12x26 Upper support | 1
W12x26 Lower support | 1
4'-4" W12x26 Stub | 1
6½"x5½"x5½" Slip Plate | 1
6½"x7"x1½" Hinge Plate | 1
A325 1½"x3" Hinge bolts with nut, hardened and D.I. washers | 8
A325 1"x5¾" Base plate bolt with nut and hardened washer | 4
"H" Plates | 4
Shims | 4
22 ga. Keeper plate | 1
1½"-5¾"x7"x1½" Base/stub plate | 2

BREAKEWAY SIGN POST

No Scale

5¾"
1½"
3½"
1½"
1½"
1½"
1½"

PLATE "H"

No Scale

1½" Thickness

BASE PLATE

No Scale

NOTE: Notch post base plate only.

NOTE: All dimensions are in inches (in.) except as noted.

NOTE: REFER TO STD. DWGS. TM600 & 601 FOR COMPLETE INSTALLATION DETAILS, WELDING REQUIREMENTS AND ADDITIONAL GENERAL SPECS.

OREGON DEPARTMENT OF TRANSPORTATION
TRAFFIC ENGINEERING & OPERATIONS SECTION

DATE: ____________________________

NAME: __________________________

COMMENTS: _______________________

2009

2010
SIGNAL POLE MOUNT

MATERIAL DESCRIPTION

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>QUANTITY</th>
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</thead>
<tbody>
<tr>
<td>TS 4 x 4 x 3/16 Horiz. Support</td>
<td>1</td>
</tr>
<tr>
<td>5 x 5.7 Vertical Support</td>
<td>2</td>
</tr>
<tr>
<td>L 8 x 4 x 7/16 x 3&quot; Side Brackets</td>
<td>2</td>
</tr>
<tr>
<td>L 5 x 3 1/2 x 4 x 2&quot; Front Brackets</td>
<td>2</td>
</tr>
<tr>
<td>4&quot; x 4.5&quot; 5/16&quot; Thick Plate Washer</td>
<td>4</td>
</tr>
<tr>
<td>4.5&quot; x 4.5&quot; 1/2&quot; Thick Plate Spacers</td>
<td>As needed</td>
</tr>
<tr>
<td>(Fy Min=36 ksi) 3/4&quot; x * Threaded Rods with lock nuts or double nuts thru center of pole.</td>
<td>2</td>
</tr>
<tr>
<td>A307 1/2&quot; x 6&quot; Bolts with lock nuts or double nuts (bracket to horiz. support)</td>
<td>4</td>
</tr>
<tr>
<td>A325 5/8&quot; x * Bolt with lock nuts. Plate spacers/washers as needed. (front bracket to side bracket)</td>
<td>8</td>
</tr>
</tbody>
</table>

NOTE: All dimensions are in inches (in.) except as noted.

* Bolt length to be determined in the field.

NOTE: REFER TO ODOT STD. DWG. TM680 FOR COMPLETE INSTALLATION DETAILS, WELDING REQUIREMENTS AND ADDITIONAL GENERAL SPECIFICATIONS.

POLE MOUNTED SIGN DETAIL

(Cantilever sign to clear traffic)

PLATE WASHER

(4 Required)

PLATE SPACER

(Varies)

SIDE VIEW

FRONT VIEW

POLE MOUNTING BRACKETS (SIDE)

OREGON DEPARTMENT OF TRANSPORTATION
TRAFFIC ENGINEERING & OPERATIONS SECTION

DATE: ____________________
NAME: ____________________
COMMENTS: ____________________
SECONDARY SIGN SUPPORTS

<table>
<thead>
<tr>
<th>LENGTH</th>
<th>MATERIAL DESCRIPTION</th>
<th>QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>TS 2x2x(\frac{3}{16}) (ROUTE MARKER FRAME)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TS 2x2x(\frac{3}{16}) (ROUTE MARKER FRAME)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TS 2x2x(\frac{3}{16}) (ROUTE MARKER FRAME)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TS 2x2x(\frac{3}{16}) (ROUTE MARKER FRAME)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7'-0&quot;</td>
<td>S3x5.7 (EXIT NUMBER SIGN SUPPORT)</td>
<td></td>
</tr>
<tr>
<td>2&quot;</td>
<td>TS 2x2x(\frac{3}{16}) (EXIT NUMBER SIGN SUPPORT)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>C4x5.4 (CHANNEL SUPPORT)</td>
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</tr>
<tr>
<td></td>
<td>C4x5.4 (CHANNEL SUPPORT)</td>
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<td>C4x5.4 (CHANNEL SUPPORT)</td>
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<tr>
<td></td>
<td>C4x7.25 (CHANNEL SUPPORT)</td>
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<tr>
<td></td>
<td>C4x7.25 (CHANNEL SUPPORT)</td>
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</tr>
<tr>
<td></td>
<td>C4x7.25 (CHANNEL SUPPORT)</td>
<td></td>
</tr>
</tbody>
</table>

NOTE: All dimensions are in inches (in.) except as noted.

Use post clips at all mounting accessories. Both sides of I beam. (See TM675)

-----------

EXIT NUMBER SIGN SUPPORT

(See TM220 for details)

BASIC ROUTE MARKER FRAME

(See TM678 for details)