## CONSULTANT ENGLISH STEEL DRAWINGS INDEX

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<td>7 x 7 TBB (no “H” frame) Cut Slope</td>
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<td>Sheet_16</td>
<td>3 x 3 TBB (with “H” frame) Cut Slope</td>
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<td>3.5 x 3.5 TBB (with “H” frame) Fill Slope</td>
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<td>Sheet_18</td>
<td>3.5 x 3.5 TBB (with “H” frame) Cut Slope</td>
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<td>Sheet_19</td>
<td>4 x 4 TBB (with “H” frame) Fill Slope</td>
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<td>Sheet_20</td>
<td>4 x 4 TBB (with “H” frame) Cut Slope</td>
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<td>5 x 5 TBB (with “H” frame) Fill Slope</td>
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<td>Sheet_23</td>
<td>6 x 6 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>7 x 7 TBB (with “H” frame) Fill Slope</td>
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<td>6 x 15 MPB</td>
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<td>12 x 30 MPB</td>
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<td>14 x 30 MPB</td>
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<tr>
<td>Sheet_39</td>
<td>Signal Pole Mounts</td>
</tr>
<tr>
<td>Sheet_40</td>
<td>Secondary Sign Supports</td>
</tr>
</tbody>
</table>
FILL SLOPE

MATERIAL DESCRIPTION | QUANTITY
--- | ---
3 x 3 x 3/16 Post | 1
x 6” x 3/16” Plate (A36) | 1
1” - 6” 3 x 3 x 3/16 Stub | 1
22 ga. Keeper plate | 1
Plate washer “H” | 6
A325 1/2” x 4 3/4” Base plate bolt with nut and (3) hardened washers. | 3
2 3/4” x 2 3/4” x 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

KEEPRER
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 | Quantity
--- | ---
3x3x3 1/16 Post | 1
x6"x3/16" Plate (A36) | 1
1"-6" 3x3x3 1/16 Stub | 1
22 ga. Keeper plate | 1
Plate washer "H" | 6
A325 1/2"x4 3/4" Base plate bolt with nut and (3) hardened washers. | 3
2 3/4"x2 3/4"x1 1/16" 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

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

KEEPER
No Scale

DIRECTION OF TRAFFIC

2" Dia. center hole
This face towards high side.
6" dia. bolt circle with 3 equally spaced bolts.

POST STUB DETAILS
No Scale

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

(NAME OF CONSULTANT)

DATE: ____________
NAME: ____________
COMMENTS: ____________
**FILL SLOPE**

**BREAKAWAY SIGN POST**

No Scale

- Post width: 1 1/2"-
- 3/16" Cover Plate (A36)
- 3/16" Plate (A36)
- L 2x2x3/16x2" (A36)
- Sign support bracket
- TS 3/16x3/16x3/16 Stub

**KEEPER**

No Scale

- 1/16" Dia. hole
- 2 1/2" Dia. hole
- 1" thick plate washer (ASTM A572, Grade 50)

**PLATE "H"**

No Scale

- 1/16 Dia. hole
- 1 1/16" Dia. hole

**POST STUB DETAILS**

No Scale

- 6 1/4" dia. bolt circle with 3 equally spaced bolts.

**POST STUB DETAILS**

No Scale

- 2 1/2" Dia. center hole
- 3/4" R=116" single bolt

**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>
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</thead>
<tbody>
<tr>
<td>3 1/2 x 3 1/2 x 3/16 Post</td>
<td>1</td>
</tr>
<tr>
<td>x 6 1/2 x 3/16 Plate (A36)</td>
<td>1</td>
</tr>
<tr>
<td>1' - 9&quot; 3 1/2 x 3 1/2 x 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 3/8&quot; x 5&quot; Base plate bolt with nut and (3) hardened washers.</td>
<td>3</td>
</tr>
<tr>
<td>3/4&quot; x 3/4&quot; x 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.

**NAME OF CONSULTANT**

DATE: ____________________________

NAME: ____________________________

COMMENTS:
**CUT SLOPE**

**MATERIAL DESCRIPTION**

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
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</thead>
<tbody>
<tr>
<td>3(\frac{1}{2}) x 3(\frac{1}{2}) x (\frac{3}{16}) Post</td>
<td>1</td>
</tr>
<tr>
<td>x6(\frac{1}{2}) x (\frac{3}{16}) Plate (A36)</td>
<td>1</td>
</tr>
<tr>
<td>1'-9&quot; 3(\frac{1}{2}) x 3(\frac{1}{2}) x (\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 (\frac{5}{8}) x 5&quot; Base plate bolt with nut and (3) hardened washers.</td>
<td>3</td>
</tr>
<tr>
<td>3(\frac{1}{4}) x 3(\frac{1}{4}) x (\frac{3}{16}) 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>

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**BREAKAWAY SIGN POST**

No Scale

**KEEPER**

No Scale

6\(\frac{3}{4}\)" dia. bolt circle with 3 equally spaced bolts.

**POST STUB DETAILS**

No Scale

**PLATE "H"**

No Scale

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

**BRASS SHIM DETAIL**

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

**NAME OF CONSULTANT**

DATE:

NAME:

COMMENTS:
**FILL SLOPE**

**BREAKAWAY SIGN POST**

No Scale

**KEEPER**

No Scale

**PLATE “H”**

No Scale

**POST STUB DETAILS**

No Scale

### MATERIAL DESCRIPTION

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
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</thead>
<tbody>
<tr>
<td>4x4x3/16 Post</td>
<td>1</td>
</tr>
<tr>
<td>2&quot;-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>6</td>
</tr>
<tr>
<td>A325 5/8&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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<td>4</td>
</tr>
</tbody>
</table>

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

**PLATE "H"**

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

**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>4x4x3/16 Post</td>
<td>1</td>
</tr>
<tr>
<td>x7&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></td>
</tr>
<tr>
<td>A325 5/8&quot;x51/2&quot; Base plate bolt with nut and (3) hardened washers</td>
<td>3</td>
</tr>
<tr>
<td>33/4&quot;x33/4&quot;x3/16&quot; Cover plate</td>
<td>1</td>
</tr>
<tr>
<td>Sign support bracket</td>
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<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

2 1/2" dia. bolt circle

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

KEEPER

No Scale

1 1/4" Dia. hole

PLATE "H"

No Scale

1" thick plate washer

(ASTM A572, Grade 50)

POST STUB DETAILS

No Scale

3" Dia. center hole

7/16" Plate (A36)

Note: Post base plate details similar.

BRASS SHIM DETAIL

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

(Name of Consultant)

Date: ______________________

Name: ______________________

Comments: ____________________
FILL SLOPE

MATERIAL DESCRIPTION | QUANTITY
--- | ---
5x5 x 3/16 Post | 1
x 8" x 3/16" Plate (A36) | 1
2"-3" 5x5 x 3/16 Stub | 1
22 ga. Keeper plate | 1
Plate washer "H" | 6
A325 3/4" x 5 1/2" Base plate bolt with nut and (3) hardened washers. | 3
4 3/4" x 4 3/4" x 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

22 ga. galv. sheet metal keeper plate with 4" dia. ctr. hole.

POST STUB DETAILS

No Scale

BRASS SHIM DETAIL

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

5x5x3/16
TRIANGULAR BASE BREAKAWAY SIGN SUPPORT

MATERIAL DESCRIPTION | QUANTITY
--- | ---
5x5x3/16 Post | 1
x8"x3/16" Plate (A36) | 1
2"-3" 5x5x3/16 Stub | 1
22 ga. Keeper plate | 1
Plate washer "H" | 6
A325 3/8"x5 1/2" Base plate bolt with nut and (3) hardened washers. | 3
4 3/4"x4 3/4"x3/16" 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

9" dia. bolt circle

22 ga. galv. sheet metal keeper plate with 4" dia. ctr. hole.

KEEPER

No Scale

4" Dia. center hole

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

POST STUB DETAILS

No Scale

(LETTER OF CONSULTANT)

DATE: ______________________

NAME: ______________________

COMMENTS: ______________________
CUT SLOPE

MATERIAL DESCRIPTION | QUANTITY
--- | ---
6"x6"x3/16 Post | 1
x9"x3/16" Plate (A36) | 1
2'-6" 6"x6"x3/16 Stub | 1
22 ga. Keeper plate | 1
Plate washer "H" | 6
A325 7/8"x6/4" Base plate bolt with nut and (3) hardened washers. | 3
5/8"x5/4"x3/16" 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

KEEPER

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

POST STUB DETAILS

BRASS SHIM DETAIL

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

**MATERIAL DESCRIPTION**

<table>
<thead>
<tr>
<th>Material Description</th>
<th>Quantity</th>
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</thead>
<tbody>
<tr>
<td>TS 7x7x3/16 Post</td>
<td>1</td>
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<tr>
<td>x10''x3/16 Plate (A36)</td>
<td>1</td>
</tr>
<tr>
<td>3'-0&quot; 7x7x3/16 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;x6 1/4&quot; Base plate bolt with nut and (3) hardened washers.</td>
<td>3</td>
</tr>
<tr>
<td>6 3/4&quot;x6 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>
<td>2</td>
</tr>
<tr>
<td>Brass shims</td>
<td>4</td>
</tr>
</tbody>
</table>

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---

** BREAKAWAY SIGN POST **

No Scale

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

---

** POST STUB DETAILS **

No Scale

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

---

**PLATE "H"**

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>7x7x3/16 Post</td>
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<tr>
<td>x10&quot;x3/16&quot; Plate (A36)</td>
<td>1</td>
</tr>
<tr>
<td>3'-0&quot; 7x7x3/16 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;x6 1/4&quot; Base plate bolt with nut and 3 hardened washers</td>
<td>3</td>
</tr>
<tr>
<td>6 1/4&quot;x6 1/4&quot;x 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>

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---

**BREAKAWAY SIGN POST**

No Scale

**KEEPER**

No Scale

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

**PLATE "H"**

No Scale

1/8" Dia. hole

3 1/2" 1/4" thick plate washer (ASTM A572, Grade 50)

---

**POST STUB DETAILS**

No Scale

**BRASS SHIM DETAIL**

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

---

**NAME OF CONSULTANT**

DATE: ____________________

NAME: ____________________

COMMENTS: ____________________
**FILL SLOPE**

**BREAKAWAY SIGN POST**

No Scale

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

**KEEPER**

No Scale

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

**PLATE “H”**

No Scale

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

**POST STUB DETAILS**

No Scale

This face towards high side.

1"-1 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.

**MATERIAL DESCRIPTION**

<table>
<thead>
<tr>
<th>Material Description</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>8x8x3/16 Post</td>
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</tr>
<tr>
<td>x11&quot;x3/16&quot; Plate (A36)</td>
<td>1</td>
</tr>
<tr>
<td>3&quot;-6&quot; 8x8x3/16 Stub</td>
<td>1</td>
</tr>
<tr>
<td>22 ga. Keeper plate</td>
<td>1</td>
</tr>
<tr>
<td>Plate washer “H”</td>
<td>6</td>
</tr>
<tr>
<td>A325 1&quot;x6 3/4&quot; Base plate bolt with nut and (3) hardened washers.</td>
<td>3</td>
</tr>
<tr>
<td>7 3/4&quot;x7 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>
<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.
**CUT SLOPE**

<table>
<thead>
<tr>
<th>MATERIAL DESCRIPTION</th>
<th>QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>8x8x3/16 Post</td>
<td>1</td>
</tr>
<tr>
<td>x11&quot;x3/16&quot; Plate (A36)</td>
<td>1</td>
</tr>
<tr>
<td>3’-6&quot; 8x8x3/16 Stub</td>
<td>1</td>
</tr>
<tr>
<td>22 ga. Keeper plate</td>
<td>1</td>
</tr>
<tr>
<td>Plate washer “H”</td>
<td>6</td>
</tr>
<tr>
<td>A325 1&quot;x6 1/4&quot; Base plate bolt with nut and (3) hardened washers.</td>
<td>3</td>
</tr>
<tr>
<td>7 3/4&quot;x7 3/4&quot;x3 1/16&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.

**BREAKAWAY SIGN POST**

No Scale

1’-1 1/2” dia. bolt circle

22 ga. galv. sheet metal keeper plate with 1” dia. ctr. hole.

**KEEPER**

No Scale

1’-1 1/2” dia. bolt circle with 3 equally spaced bolts.

**POST STUB DETAILS**

No Scale

Note:
Post base plate details similar.

**PLATE “H”**

No Scale

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

**BRASS SHIM DETAIL**

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

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

**Breakaway Sign Post**

No Scale

- 3/4" Dia. bolt circle
- 6" dia. bolt circle
- 22 ga. galv. sheet metal keeper plate with 2" dia. ctr. hole.

**Keeper**

No Scale

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

**Plate "H"**

No Scale

- 1 1/8" Dia. hole
- 3/16" 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
- R = 3/32" Width:
- 6" dia. bolt circle with 3 equally spaced bolts.

*Note: All dimensions are in inches (in.) except as noted.*
**CUT SLOPE**

- **Material Description and Quantity**
  - 3x3x3/16 Post: 1
  - 3x3x3/16 Horiz. Arm: 1
  - 1'-6" 3x3x3/16 Stub: 1
  - S3x5.7 Vertical Supports: 2
  - "H" Plates: 6
  - A325 1/2"x4 1/2" 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**

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

**KEEPER**

- No Scale

---

**POST STUB DETAILS**

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

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

---

**PLATE "H"**

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

**BRASS SHIM DETAIL**

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

---

**(NAME OF CONSULTANT)**

- **DATE:**
- **NAME:**
- **COMMENTS:**
FILL SLOPE

TS 3½x3½x3¾ ("H")
TRIANGULAR BASE BREAKAWAY SIGN SUPPORT

MATERIAL DESCRIPTION | QUANTITY
--- | ---
3½x3½x3¾ Post | 1
3x3x¾ Horiz. Arm | 1
1'-9" 3½x3½x3¾ Stub | 1
5x3.7 Vertical Supports | 2
"H" Plates | 6
A325 ½"x5" Base plate bolt with nut and (3) hardened washers | 3
22 ga. Keeper plate | 1
Post/stub base plate | 2
Brass shims | 4
7½"x7½"x1½" "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

6¾" dia. bolt circle

22 ga. galv. sheet metal keeper plate with 2½" dia. ctr. hole.

Note:
Post base plate details similar.

POST STUB DETAILS

No Scale

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

(NAME OF CONSULTANT)

DATE: __________________
NAME: __________________
COMMENTS: __________________
**CUT SLOPE**

**MATERIAL DESCRIPTION**

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>3(\frac{1}{2})\times3(\frac{1}{2})\times3(\frac{1}{16}) Post</td>
<td>1</td>
</tr>
<tr>
<td>3\times3(\frac{1}{16}) Horiz. Arm</td>
<td>1</td>
</tr>
<tr>
<td>1'-9&quot; 3(\frac{1}{2})\times3(\frac{1}{2})\times3(\frac{1}{16}) Stub</td>
<td>1</td>
</tr>
<tr>
<td>S3\times5.7 Vertical Supports</td>
<td>2</td>
</tr>
<tr>
<td>&quot;H&quot; Plates</td>
<td>6</td>
</tr>
<tr>
<td>A325 5(\frac{3}{8})&quot;x5&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>1(\frac{1}{2})&quot;\times1(\frac{1}{2})&quot;x1(\frac{1}{2})&quot; &quot;H&quot; Frame plates</td>
<td>2</td>
</tr>
<tr>
<td>5(\frac{3}{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

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

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

---

**KEEPER**

No Scale

---

**PLATE "H"**

No Scale

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

---

**POST STUB DETAILS**

No Scale

---

**BRASS SHIM DETAIL**

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

---

**NAME OF CONSULTANT**

DATE: ______________________

NAME: ______________________

COMMENTS: ____________________
**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 1/4" thick plate washer (ASTM A572, Grade 50)

2 1/2" Dia. hole

1/16" Dia. hole

**KER**

No Scale

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

**POST STUB DETAILS**

No Scale

R: 1/32"

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

1"

Post stub

**PLATE "H"**

No Scale

1/16" Dia. hole

2 1/2" Dia. hole

**MATERIAL DESCRIPTION**

<table>
<thead>
<tr>
<th>MATERIAL DESCRIPTION</th>
<th>QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot;x4&quot;x3/16 Post</td>
<td>1</td>
</tr>
<tr>
<td>3&quot;x3&quot;x3/16 Horiz. Arm</td>
<td>1</td>
</tr>
<tr>
<td>2'-0&quot; 4&quot;x4&quot;x3/16 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 1/2&quot;x2&quot; &quot;H&quot; Frame bolt w/ nut and washer.</td>
<td>4</td>
</tr>
</tbody>
</table>

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**NOTE:** REFER TO ODOT STD. Dwg. No. TM602 FOR COMPLETE INSTALLATION DETAILS, WELDING REQUIREMENTS AND ADDITIONAL GENERAL SPECIFICATIONS.
**CUT SLOPE**

**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;x5/8&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>

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---

**BREAKAWAY SIGN POST**

No Scale

**7 1/2" dia. bolt circle**

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

---

**KEEPER**

No Scale

---

**DIRECTION OF TRAFFIC**

---

**POST STUB DETAILS**

No Scale

---

**PLATE "H"**

No Scale

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

---

**BRASS SHIM DETAIL**

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

---

(NAME OF CONSULTANT)

DATE: ______________________

NAME: _____________________

COMMENTS:

---
**FILL SLOPE**

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

**TRIANGULAR BASE BREAKAWAY SIGN SUPPORT**

**MATERIAL DESCRIPTION**

<table>
<thead>
<tr>
<th>Material Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>5x5x3(\frac{3}{16}) Post</td>
<td>1</td>
</tr>
<tr>
<td>3x3x3(\frac{3}{16}) Horiz. Arm</td>
<td>1</td>
</tr>
<tr>
<td>2'–3&quot; 5x5x3(\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 (\frac{3}{8})&quot;x5(\frac{1}{2})&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>9&quot;x9&quot;(\frac{1}{2})&quot; &quot;H&quot; Frame plates</td>
<td>2</td>
</tr>
<tr>
<td>(\frac{7}{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

**KEEPER**

No Scale

22 ga. galv. sheet metal keeper plate with 4" dia. ctr. hole.

**PLATE "H"**

No Scale

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

**DIRECTION OF TRAFFIC**

This face towards high side.

4" Dia, center hole

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

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

---

**NAME OF CONSULTANT**

DATE: ______________________

NAME: ______________________

COMMENTS: ______________________
**CUT SLOPE**

**MATERIAL DESCRIPTION**

<table>
<thead>
<tr>
<th>Material</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>5x5x3(\frac{3}{16}) Post</td>
<td>1</td>
</tr>
<tr>
<td>3x3x3(\frac{3}{16}) Horiz. Arm</td>
<td>1</td>
</tr>
<tr>
<td>2'–3&quot; 5x5x3(\frac{3}{16}) Stub</td>
<td>1</td>
</tr>
<tr>
<td>5x3.5 Vertical Supports</td>
<td>2</td>
</tr>
<tr>
<td>&quot;H&quot; Plates</td>
<td>6</td>
</tr>
<tr>
<td>A325 (\frac{3}{4})&quot;x5(\frac{1}{2})&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>9&quot;x9&quot;x(\frac{1}{2})&quot; &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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**NOTE:** REFER TO ODOT STD. DWG. NO. TM602 FOR COMPLETE INSTALLATION DETAILS, WELDING REQUIREMENTS AND ADDITIONAL GENERAL SPECIFICATIONS.
FILL SLOPE

10"x10"x1 1/2" "H" Frame connection plates (See TM602 for details)

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 1/8"
10 1/2" dia. bolt circle

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

POST STUB DETAILS

No Scale

1 1/4"
1 1/8"

1 1/8" thick plate washer

(NAME OF CONSULTANT)

DATE: __________________________

NAME: ________________________

COMMENTS: ____________________

MATERIAL DESCRIPTION QUANTITY

<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>3x3x3/16 Horiz. Arm</td>
<td>1</td>
</tr>
<tr>
<td>2'-6&quot; 6x6x3/16 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 7/8&quot;x6 1/4&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>10&quot;x10&quot;x1 1/2&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>

PLATE "H"

No Scale

1 1/4"
3 1/2"
1 1/8" Dia. hole

BRASS SHIM DETAIL

Provide 2 @ 0.012" thick and 2 @ 0.032" thick at each bolt.
**TS 6x6x3/16 ("H")**

**TRIANGULAR BASE BREAKAWAY SIGN SUPPORT**

**CUT SLOPE**

- TS 3x3x3/16
- S3x5.7 (verified post lengths)
- 10"x10"x1/2" "H" Frame connection plates (See TM602 for details)
- TS 6x6x3/16 Stub

**MATERIAL DESCRIPTION**

<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>3x3x3/16 Horiz. Arm</td>
<td>1</td>
</tr>
<tr>
<td>2'-6&quot; 6x6x3/16 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 7/8&quot;x61/4&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>10&quot;x10&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>

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**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
- 1 1/8"
- 1 - 4 1/8"

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

**KEEPER**

- No Scale

**POST STUB DETAILS**

- No Scale

- 7/8"
- 45°
- 45°
- This face towards high side.

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

**PLATE "H"**

- No Scale

- 1 3/4"
- 15/16" Dia. hole

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

**BRASS SHIM DETAIL**

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

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

**POST STUB DETAILS**

- No Scale

- (NAME OF CONSULTANT)

- DATE: _______________________

- NAME: _______________________

- COMMENTS: ___________________
**Fill Slope**

11" x 11" x 1/2" "H" Frame connection plates (See Dwg. No. TM602 for details)

**Breakaway Sign Post**

No Scale

1 1/8"

12" dia. bolt circle

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

**Keeper**

No Scale

1 1/8"

1 1/2"

15 1/4" Dia. hole

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

**Plate "H"**

No Scale

1 1/8"

1 1/8"

15 1/4" Dia. hole

1/4"

15/32" Dia. hole

**Brass Shim Detail**

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

**Post Stub Details**

No Scale

6" Dia. center hole

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

**Material Description**

<table>
<thead>
<tr>
<th>Material Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 x 7 x 3/16 Post</td>
<td>1</td>
</tr>
<tr>
<td>4 x 4 x 3/16 Horiz. Arm</td>
<td>1</td>
</tr>
<tr>
<td>3'-0&quot; 7 x 7 x 3/16 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 1/8&quot; x 6 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; x 11&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 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.

**DATE:**

**NAME:**

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

- **TS 7x7x3/16 ("H")**
- **TRIANGULAR BASE BREAKAWAY SIGN SUPPORT**

**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>S3x5.7 Vertical Supports</td>
<td>2</td>
</tr>
<tr>
<td>&quot;H&quot; Plates</td>
<td>6</td>
</tr>
<tr>
<td>A325 1/2&quot;x6 1/4&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>11&quot;x11&quot;x1/2&quot; &quot;H&quot; Frame plates</td>
<td>2</td>
</tr>
<tr>
<td>5/16&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

**KEEPER**

- 12" dia. bolt circle
- 1 1/8"
- 11/16"
- 1 1/6"
- 6" dia. bolt circle with 3 equally spaced bolts.

**POST STUB DETAILS**

- No Scale

**PLATE "H"**

- 1 1/4"
- 3 1/2"
- 15/16" Dia. hole
- 1 1/2" thick plate washer (ASTM A572, Grade 50)

**BRASS SHIM DETAIL**

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

---

**NAME OF CONSULTANT:**

**DATE:**

**NAME:**

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

12"x12"x1/2" "H" Frame connection plates (See Dwg. No. TM602 for details)

**BREAKAWAY SIGN POST**

No Scale

1-11/2" dia. bolt circle

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

**KEEPER**

No Scale

1-1/4" to 1-3/8"

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

**PLATE "H"**

No Scale

**POST STUB DETAILS**

No Scale

7" Dia. center hole

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

**MATERIAL DESCRIPTION**

<table>
<thead>
<tr>
<th>Description</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&quot;-6&quot; 8x8x3/16 Stub</td>
<td>1</td>
</tr>
<tr>
<td>5/8x5.7 Vertical Supports</td>
<td>2</td>
</tr>
<tr>
<td>&quot;H&quot; Plates</td>
<td>6</td>
</tr>
<tr>
<td>A325 1&quot;x6 7/8&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;x1/2&quot; &quot;H&quot; Frame plates</td>
<td>2</td>
</tr>
<tr>
<td>3/8&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.
**CUT SLOPE**

- **Material Description**
  - 8x8x\(\frac{3}{16}\) Post: 1
  - 5x5x\(\frac{3}{16}\) Horiz. Arm: 1
  - 3’-6” 8x8x\(\frac{3}{16}\) Stub: 1
  - 53x5.7 Vertical Supports: 2
  - "H" Plates: 6
  - A325 1”x6\(\frac{3}{8}\) Base plate bolt with nut and (3) hardened washers: 3
  - 22 ga. Keeper plate: 1
  - Post/stub base plate: 2
  - Brass shims: 4
  - 12”x12”x\(\frac{1}{2}\) “H” Frame plates: 2
  - \(\frac{3}{8}\)”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

- 1’-1½” dia. bolt circle

- 22 ga. galv. sheet metal keeper plate with 7” dia. cltr. hole

**KEEPER**

- No Scale

- 1½” Dia. hole

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

**PLATE "H"**

- No Scale

- 4” Dia. hole

**POST STUB DETAILS**

- No Scale

- 2½”

- 1½” Dia.

- 1½” Dia.

**BRASS SHIM DETAIL**

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

---

**DATE:**

**NAME:**

**COMMENT:**
W6x15
MULTI-POST BREAKAWAY SIGN SUPPORT

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&quot; W6x15 Stub</td>
<td>1</td>
</tr>
<tr>
<td>6&quot;x5(\frac{3}{8})&quot;x(\frac{1}{2})&quot; Slip Plate</td>
<td>1</td>
</tr>
<tr>
<td>6&quot;x7(\frac{1}{8})&quot; Hinge Plate</td>
<td>1</td>
</tr>
<tr>
<td>A325 (\frac{3}{8})&quot;x2(\frac{1}{2})&quot; Hinge bolts with nut, hardened and D.T.I. washers</td>
<td>8</td>
</tr>
<tr>
<td>A325 (\frac{3}{4})&quot;x4(\frac{1}{2})&quot; Base plate bolt with nut and hardened washer</td>
<td>4</td>
</tr>
<tr>
<td>&quot;H&quot; 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(\frac{1}{4})&quot;x6(\frac{1}{4})&quot;x1&quot; Base_stub plate</td>
<td>2</td>
</tr>
</tbody>
</table>

BREAKEWAY SIGN POST

No Scale

PLATE "H"

No Scale

10\(\frac{1}{4}\)"

7\(\frac{1}{8}\)"

8\(\frac{1}{2}\)"

1\" Thickness

BASE PLATE

No Scale

1/8" dia. hole

1/8" 3/16" 7/64" 7/64"

1/16" plate

1/8" 3/16" 7/64" 7/64"

1/16" 3/32" 7/32" 1/8"

BRASS SHIM DETAIL

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

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

POST HINGE DETAILS

No Scale

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

NAME OF CONSULTANT

DATE:

NAME:

COMMENTS:
**W8x18**

**MULTI-POST BREAKAWAY SIGN SUPPORT**

**JOB:**

**SIGN NUMBER:**

**CONTRACT NO.:**

**MATERIAL DESCRIPTION**

<table>
<thead>
<tr>
<th>Material Description</th>
<th>Quantity</th>
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</thead>
<tbody>
<tr>
<td>W8x18 Upper support</td>
<td>1</td>
</tr>
<tr>
<td>W8x18 Lower support</td>
<td>1</td>
</tr>
<tr>
<td>3'-0' W8x18 Stub</td>
<td>1</td>
</tr>
<tr>
<td>5¼&quot; x 3½&quot; x 1½&quot; Slip Plate</td>
<td>1</td>
</tr>
<tr>
<td>5¼&quot; x 7&quot; x 1½&quot; Hinge Plate</td>
<td>1</td>
</tr>
<tr>
<td>A325 7/8&quot; x 2½&quot; Hinge bolts with nut, hardened and D.T.I. washers</td>
<td>8</td>
</tr>
<tr>
<td>A325 3¼&quot; x 5&quot; Base plate bolt with nut and hardened washer</td>
<td>4</td>
</tr>
<tr>
<td>&quot;H&quot; 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'-1½&quot; x 5½&quot; x 1¾&quot; Base/stub plate</td>
<td>2</td>
</tr>
</tbody>
</table>

**BREAKAWAY SIGN POST**

No Scale

8 vert. #7 bars w/ std. 90° hook, top end

**POST HINGE DETAILS**

No Scale

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

**PLATE "H"**

No Scale

1½" dia. hole

¾" plate

**BRASS SHIM DETAIL**

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

**BASE PLATE**

No Scale

3/8" Thickness

1½" dia. holes

**KEEPER**

No Scale

Rad. = 1½" / 1½" dia. holes

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

(NAME OF CONSULTANT)

DATE: __________________

NAME: __________________

COMMENTS: __________________
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&quot;-4&quot; W8x21 Stub</td>
<td>1</td>
</tr>
<tr>
<td>5(\frac{1}{4})&quot;x5(\frac{3}{8})&quot;x(\frac{5}{8})&quot; Slip Plate</td>
<td>1</td>
</tr>
<tr>
<td>5(\frac{1}{4})&quot;x7(\frac{1}{2})&quot; Hinge Plate</td>
<td>1</td>
</tr>
<tr>
<td>A325 1&quot;x2(\frac{3}{4})&quot; Hinge bolts with nut, harden and D.T.I. washers</td>
<td>8</td>
</tr>
<tr>
<td>A325 7/8&quot;x5(\frac{1}{4})&quot; Base plate bolt with nut and hardened washer</td>
<td>4</td>
</tr>
<tr>
<td>&quot;H&quot; 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'-1(\frac{1}{4})&quot;x6&quot;x1(\frac{1}{8})&quot; Base/stub plate</td>
<td>2</td>
</tr>
</tbody>
</table>

BREAKEAWAY SIGN POST

No Scale

8 vert. #8 bars w/std. 90° hk, tap end

POST HINGE DETAILS

No Scale

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

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.

NAME OF CONSULTANT

DATE: ____________________________

NAME: ____________________________

COMMENTS: _________________________

NOTE: REFER TO STD. DWGS. TM600 & 601 FOR COMPLETE INSTALLATION DETAILS, WELDING REQUIREMENTS AND ADDITIONAL GENERAL SPECS.
W12x26
MULTI-POST BREAKAWAY SIGN SUPPORT

BREAKEWAY SIGN POST

PLATE "H"

BASE PLATE

NOTE: Notch post base plate only.

POST HINGE DETAILS

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

BRASS SHIM DETAIL

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

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

MATERIAL DESCRIPTION

<table>
<thead>
<tr>
<th>MATERIAL DESCRIPTION</th>
<th>QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>W12x26 Upper support</td>
<td>1</td>
</tr>
<tr>
<td>W12x26 Lower support</td>
<td>1</td>
</tr>
<tr>
<td>4'-4&quot; W12x26 Stub</td>
<td>1</td>
</tr>
<tr>
<td>6½&quot;x5½&quot;x⅛&quot; Slip Plate</td>
<td>1</td>
</tr>
<tr>
<td>6½&quot;x7&quot;x⅛&quot; Hinge Plate</td>
<td>1</td>
</tr>
<tr>
<td>A325 1½&quot;x3&quot; Hinge bolts with nut, hardened and D.T.I. washers</td>
<td>8</td>
</tr>
<tr>
<td>A325 1½&quot;x5¾&quot; Base plate bolt with nut and hardened washer</td>
<td>4</td>
</tr>
<tr>
<td>&quot;H&quot; 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'-5¾&quot;x7&quot;x1½&quot; Base/stub plate</td>
<td>2</td>
</tr>
</tbody>
</table>

NOTE: For complete installation details, welding requirements, and additional general specs, refer to STD. DWGS. TM600 & 601.
W12x30
MULTI-POST BREAKAWAY SIGN SUPPORT

Sign face
Hinge plate
Slip plate
W12x30

This dimension allows for a 3" tolerance in leveling sign.

W12x30 Stub
8 vert. #11 bars w/ std. 90° hk. top end

8 vert. #11 bars w/ std. 90° hk. top end

MATERIAL DESCRIPTION | QUANTITY
--- | ---
W12x30 Upper support | 1
W12x30 Lower support | 1
4"-8" W12x30 Stub | 1
6½"x5 ¾"x3 1/2" Slip Plate | 1
6½"x7"x1½" Hinge Plate | 1
A325 1 1/4"x3" Hinge bolts with nut, hardened and D.T.I. washers | 8
A325 1 1/6"x5 ¾" Base plate bolt with nut and hardened washer | 4
"H" Plates | 4
Shims | 4
22 ga. Keeper plate | 1
1"-6"x8"x1½" Base/stub plate | 2

POST HINGE DETAILS

No Scale

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

NOTE: REFER TO STD. DWG. TM500 & 601 FOR COMPLETE INSTALLATION DETAILS, WELDING REQUIREMENTS AND ADDITIONAL GENERAL SPECS.

NAME OF CONSULTANT

DATE: ____________

NAME: ________________

COMMENTS: ________________
**W14x30**

**MULTI-POST BREAKAWAY SIGN SUPPORT**

**BREACKAWAY SIGN POST**

No Scale

**PLATE “H”**

No Scale

**BRASS SHIM DETAIL**

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

**BASE PLATE**

No Scale

**KEEPER**

No Scale

**POST HINGE DETAILS**

No Scale

**MATERIAL DESCRIPTION**

<table>
<thead>
<tr>
<th>MATERIAL DESCRIPTION</th>
<th>QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>W14x30 Upper support</td>
<td>1</td>
</tr>
<tr>
<td>W14x30 Lower support</td>
<td>1</td>
</tr>
<tr>
<td>5'-0&quot; V14x30 Stub</td>
<td>1</td>
</tr>
<tr>
<td>6¾&quot; x 5¾&quot; x ⅞&quot; Slip Plate</td>
<td>1</td>
</tr>
<tr>
<td>6¾&quot; x 7½&quot; Hinge Plate</td>
<td>1</td>
</tr>
<tr>
<td>A325 1¼&quot; x 3&quot; Hinge bolts with nut, hardened and D.T.I. washers</td>
<td>8</td>
</tr>
<tr>
<td>A325 1¼&quot; x 5¾&quot; Base plate bolt with nut and hardened washer</td>
<td>4</td>
</tr>
<tr>
<td>&quot;H&quot; 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'-8&quot; x 8&quot; x 1½&quot; Base/stub plate</td>
<td>2</td>
</tr>
</tbody>
</table>

**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.

**NAME OF CONSULTANT**

**DATE:**

**NAME:**

**COMMENTS:**

**CON NO.**

**L C R (Circle one) DATE:**
MATERIAL DESCRIPTION

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>TS 4x4x(\frac{3}{16}) Horiz. Support</td>
<td>1</td>
</tr>
<tr>
<td>S3x5.7 Vertical Support</td>
<td>2</td>
</tr>
<tr>
<td>L 8x4x(\frac{3}{16})x1'-2&quot; Side Brackets</td>
<td>2</td>
</tr>
<tr>
<td>L 5x3(\frac{1}{2})x1/4x2'-1&quot; Front Brackets</td>
<td>2</td>
</tr>
<tr>
<td>4&quot;x4.5&quot; (\frac{3}{8})&quot; Thick Plate Washer</td>
<td>4</td>
</tr>
<tr>
<td>4.5&quot;x4.5&quot; (\frac{1}{2})&quot; Thick Plate Spacers</td>
<td>As needed</td>
</tr>
</tbody>
</table>

* Bolt length to be determined in the field.

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

See TM680 for bolted sign mounting bracket details.
See Std. Dwg. TM652 & 653 for base and footing details.

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)

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sign Width</td>
<td>(\frac{3}{8})&quot;</td>
</tr>
<tr>
<td>Sign Height</td>
<td>3&quot;</td>
</tr>
<tr>
<td>Vertical supports</td>
<td>3&quot;</td>
</tr>
<tr>
<td>Horizontal Support</td>
<td>3&quot;</td>
</tr>
</tbody>
</table>

PLATE WASHER (4 Required)

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot;x4.5&quot;</td>
<td>(\frac{5}{8})&quot; thick plate washer (A36)</td>
</tr>
</tbody>
</table>

PLATE SPACER (Varies)

L 8x4x\(\frac{3}{16}\)x1'-2" Required |

POLE MOUNTING BRACKETS (SIDE)

L 5x3\(\frac{1}{2}\)x\(\frac{3}{4}\) (A36) x2'-1" long (2 Required)

TOP VIEW

POLE MOUNTING BRACKETS (FRONT)

See TM680 for bolted sign mounting bracket details.
See Std. Dwg. TM652 & 653 for base and footing details.
SECONDARY SIGN SUPPORTS

**LENGTH**

<table>
<thead>
<tr>
<th>MATERIAL DESCRIPTION</th>
<th>QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>TS 2x2x 3/16 (ROUTE MARKER FRAME)</td>
<td></td>
</tr>
<tr>
<td>TS 2x2x 3/16 (ROUTE MARKER FRAME)</td>
<td></td>
</tr>
<tr>
<td>TS 2x2x 3/16 (ROUTE MARKER FRAME)</td>
<td></td>
</tr>
<tr>
<td>TS 2x2x 3/16 (ROUTE MARKER FRAME)</td>
<td></td>
</tr>
<tr>
<td>7' - 0&quot; S3x5.7 (EXIT NUMBER SIGN SUPPORT)</td>
<td></td>
</tr>
<tr>
<td>2&quot; TS 2x2x 3/16 (EXIT NUMBER SIGN SUPPORT)</td>
<td></td>
</tr>
<tr>
<td>C4x5.4 (CHANNEL SUPPORT)</td>
<td></td>
</tr>
<tr>
<td>C4x5.4 (CHANNEL SUPPORT)</td>
<td></td>
</tr>
<tr>
<td>C4x5.4 (CHANNEL SUPPORT)</td>
<td></td>
</tr>
<tr>
<td>C4x7.25 (CHANNEL SUPPORT)</td>
<td></td>
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<tr>
<td>C4x7.25 (CHANNEL SUPPORT)</td>
<td></td>
</tr>
<tr>
<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 extrusions, both sides of I beam. (See TM675)

EXIT NUMBER SIGN SUPPORT

(See TM220 for details)

NAME OF CONSULTANT

DATE: ________________

NAME: ________________

COMMENTS: ________________