3. DESIGN SPECIFICATIONS: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, as modified by the FDOT Structures Manual.

4. ALUMINUM: Aluminum Materials shall meet the requirements of Aluminum Association Alloy 6061-T6 (ASTM B209, B221, or B308), except as noted below.

5 CONCRETE: Class I

6. SIGN PANELS: 0.08 inches min. thick Aluminum Plate with all corners rounded.

7. ALUMINUM BOLTS, NUTS, AND LOCK WASHERS:

a. Aluminum bolts: ASTM F468, Alloy 2024-T4 with at least 0.0002 inches

thick anodic coating and chromate sealed.
b. Nuts: ASTM F467, Alloy 6061-T6 or 6262-T9.
c. Lockwashers: ASTM B221, Alloy 7075-T6.

8. STAINLESS STEEL BOLTS, NUTS, AND LOCKWASHERS: Stainless Steel Bolts, Nuts, and Lockwashers: ASTM F593 and ASTM F594, Alloy Group 2. Condition A, CW2, or SH4 may be provided in lieu of Aluminum Bolts, Nuts, and Washers.

9. U-BOLTS, NUTS, AND LOCKWASHERS: U-bolts, Nuts, and Lockwashers: ASTM A307, Grade A, galvanized in accordance

10. BREAKAWAY SUPPORTS REQUIREMENTS: Install non-frangible aluminum column (post) (larger than 3½") with breakaway supports as shown on Sheet 5. Signs shielded by barrier wall or guardrail do not require breakaway support.

GUIDE TO USE THIS STANDARD:

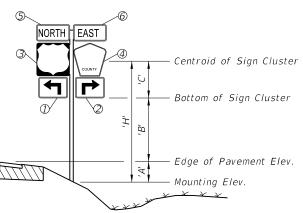
Calculate the area and the centroid for an individual sign or a sign cluster. Note that the centroid and areas have been calculated for frequently used sign clusters. These are shown on Sheet No. 6, 7 & 8 of 8.

Determine the height 'H' from groundline for the individual sign or the cluster.

Select the appropriate Column (Post) Selection Tables by Wind Speed and find the intersection point.

Design the post and the foundation according to the dark-bold lines or shaded area (if cantilever sign) in the Column (Post) Selection Tables and Post and Foundation Table. For sign posts with signs oriented in two directions, only the sign with the largest area should be analyzed to determine the post requirements.

EXAMPLE:



	Size		Centroid					
	H x V	local 'Y _n '	global 'X _n '	global 'Y _n '	'A _n '	'X' _n x 'A' _n	'Yn' x 'A'n	
	(in. x in.)	(in.)	(in.)	(in.)	(in.²)	(in.³)	(in.³)	
)	21 x 15	7.5	-10.5-1.5-1.5 = -13.5	7.5	315	-4,252.5	2,362.5	
)	21 x 15	7.5	10.5+1.5+1.5 = 13.5	7.5	315	+4,252.5	2,362.5	
)	24 x 24	12	-12-1.5 = -13.5	15+1+12= 28	576	-7,776	16,128	
)	24 x 24	12	12+1.5 = 13.5	15+1+12= 28	436	5,886	12,208	
)	24 x 12	6	-12-1.5 = -13.5	15+1+24+ 1+6=47	288	-3,888	13,536	
)	24 x 12	6	12+1.5 = 13.5	15+1+24+ 1+6=47	288	3,888	13,536	
·					2,218	-1,890	60,133	

$$\Sigma('A_n') = 2.218 \text{ in.}^2 = 15.4 \text{ ft.}^2$$
 $\Sigma('X_n' \times 'A_n') = -1.890 \text{ in.}^3 = -1.09 \text{ ft.}^3$ $\Sigma('Y_n' \times 'A_n') = 60.133 \text{ in.}^3 = 34.8 \text{ ft.}^3$

$$\Sigma('Y_n' \times 'A_n') = 60,133 \text{ in.}^3 = 34.8 \text{ ft.}$$

$$'X'_{C} = \frac{\sum \left(\begin{array}{cc} X'_{n} x & A'_{n} \right)}{\sum A'_{n}} = -0.1 \text{ ft.} \qquad 'Y'_{C} = \frac{\sum \left(\begin{array}{cc} Y'_{n} x & A'_{n} \right)}{\sum A'_{n}} = 2.26 \text{ ft.} \end{array}$$

Assume: Bay County, 'A' = 1 ft., 'B' = 7 ft.

Calculated: $'X'_{C} = -0.1 \text{ ft. } 'C' = 'Y'_{C} = 2.26 \text{ ft.}$

Since $'X'_{c} < 6"$, it is not a cantilever sign, only dark-bold lines in the table will be referenced to.

'H' = 'A' +'B' +'C' = 10.26 ft. ==> USE 11 ft.
$$\Sigma('A_n')$$
 = 15.4 ft.² ==> USE 16 ft.²

$$\Sigma('A_{n}') = 15.4 \text{ ft.}^2 ==> USE 16 \text{ ft.}^2$$

ALUMINUM COLUMN (POST) SELECTION TABLE (WIND SPEED = 130 MPH)

							'F	l' (ft	:.)						
		8	9	10	11	12	13	14 2	15	16	17	18	19	20	
	3														3
	4														
	5				i										
	6				1										
	7				1										
	8						,,,,								Z
	9					,,,,						,,,,			
	10				i										
	11				1										Ľ
(F)	12				- 1										
5	13				1										
EA	14				-			,,,,			,,,,				ϵ
TOTAL PANEL AREA (SF)	15	,,,,													
1	16	1///			-X										
WE	17					////			////						
P,4	18														
AL A	19				,,,,										
07.	20														
_	21			////											
	22								////						
	23					////									
	24		////					////							Z
	25				////			////					////		
	26												////		
	27	////										////			
	28	////		////	-										
	29			////	_	////									L
1	30					Y///					1	1			[8

For WIND SPEED = 130 MPH, $'H' = 11 \text{ ft.}, Area = 16 \text{ ft.}^2$

- Refer to the 130 mph Column (Post) Selection Table, as copied from Sheet 3 and shown here.

- Using the 16 ft.2 area on the left hand side of the table, go across to the 11 ft. height and find the cell marked with X.

- find the symbol 4 which the dark-bold line under the X cell leads to.

 In the Post and Foundation Table, the symbol 4 concludes that the design requires a 4.0" diameter and 0.25" thick Aluminum Column (Post) and a 2.0' diameter and 4.0' deep Concrete Foundation.

WIND SPEEDS BY COUNTY:

Alachua, Baker, Bradford, Clay, Columbia, Gadsden, Gilchrist, Hamilton, Hardee, Jackson, Jefferson, Lafayette, Lake, Leon, Madison, Marion, Polk, Putnam, Sumter, Suwannee and

130 MPH

Bay, Brevard, Calhoun, Charlotte, Citrus, De Soto, Dixie, Duval, Flagler, Franklin, Glades, Gulf, Hendry, Hernando, Highlands, Hillsborough, Holmes, Lee, Levy, Liberty, Manatee, Nassau, Okaloosa, Okeechobee, Orange, Osceola, Pasco, Pinellas, Sarasota, Seminole, St Johns, Taylor, Volusia, Wakulla, Walton and Washington counties.

Broward, Collier, Dade, Escambia, Indian River, Martin, Monroe, Palm Beach, Santa Rosa and St. Lucie counties

> = If CANTILEVER SIGN configuration (see Cantilever Sign Details) falls in this region, use next larger post size than that indicated.

> > NOTES AND EXAMPLE

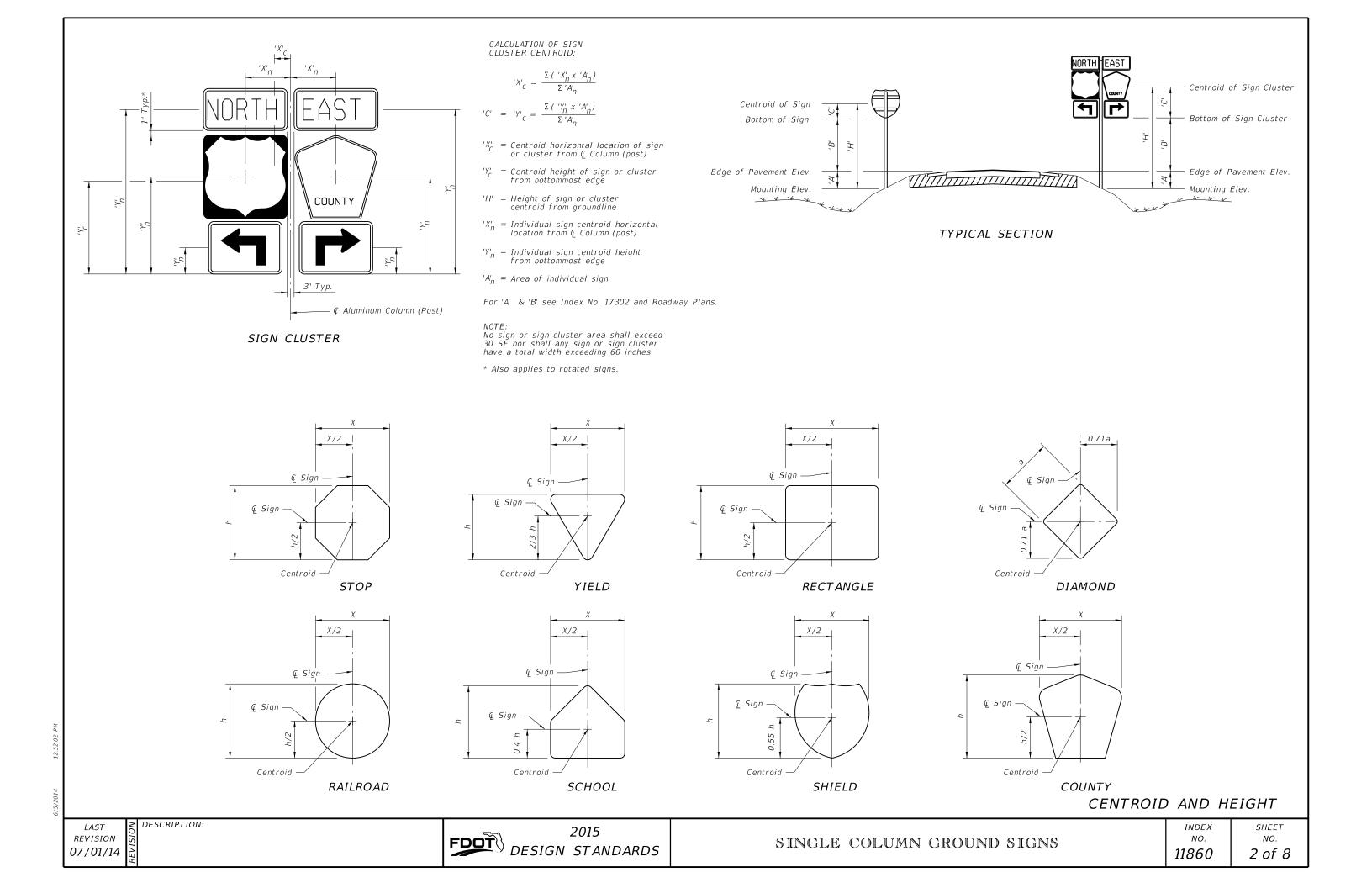
LAST REVISION 01/01/12

2015 FDOT DESIGN STANDARDS

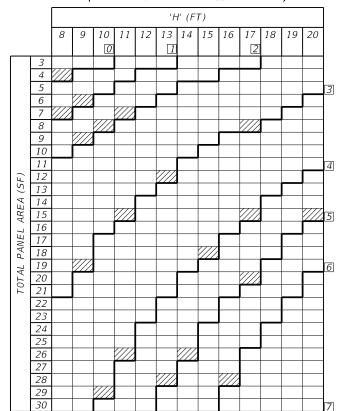
SINGLE COLUMN GROUND SIGNS

INDEX SHEET NO. NO. 11860 1 of 8

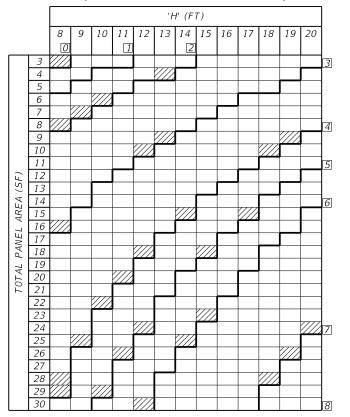
TOTALS



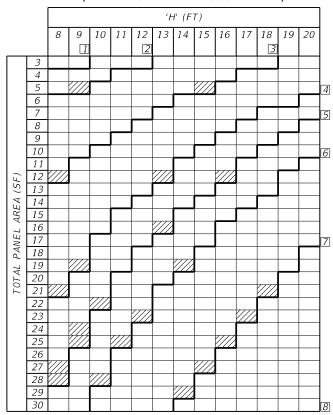
ALUMINUM COLUMN (POST) SELECTION TABLE (WIND SPEED = 110 MPH)



ALUMINUM COLUMN (POST) SELECTION TABLE (WIND SPEED = 130 MPH)



ALUMINUM COLUMN (POST) SELECTION TABLE (WIND SPEED = 150 MPH)



Column (Post)

€ Sign

CANTILEVER SIGN

6" Min.

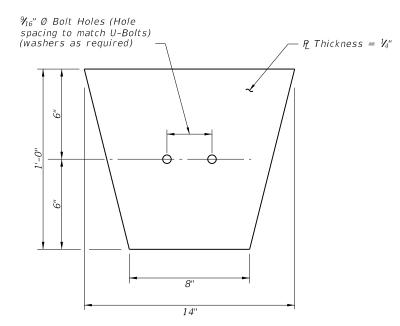
6" Min.

All cantilever sign installations shall comply with Standard Index 17302.

= If CANTILEVER SIGN configuration (see Cantilever Sign Details) falls in this region, use next larger post size than that indicated.

	POST AND FOUNDATION TABLE										
				ndation Alte							
	Post S	ize	Driven	Post *	Concrete (Class I)						
	D:	Wall	Depth (FT)		Diameter	Depth	Stub				
	Diameter (IN)		without Soil Plate	with Soil Plate	(FT)	(FT)	Length (FT)				
0	2.0	1/8	4.5	2.5	2.0	2.0	2.0				
1	2.5	1/8	5.0	3.0	2.0	2.0	2.0				
2	3.0	1/8	5.0	3.5	2.0	2.5	2.5				
3	3.5	³ / ₁₆	6.0	4.5	2.0	3.0	3.0				
4	4.0	1/4			2.0	4.0	3.0				
5	4.5	1/4			2.0	4.0	3.0				
6	5.0	1/4			2.0	4.5	3.0				
7	6.0	1/4			2.0	5.0	3.0				
8	8.0	⁵ ⁄16			2.0	5.5	3.0				

* INSTALLING FRANGIBLE COLUMN SUPPORTS: Columns (posts) may be installed by driving the columns in accordance with this Index, or as an alternate method, the columns (posts) may be set to the depth indicated in preformed holes backfilled with suitable material tamped in layers not thicker than 6" to provide adequate compaction or filled with flowable fill or bagged concrete.



ALUMINUM SOIL PLATE DETAILS

- Align Soil Plate bottom at 2/3 of foundation depth.

 Slot up to 1" long is allowed to accommodate various post sizes.

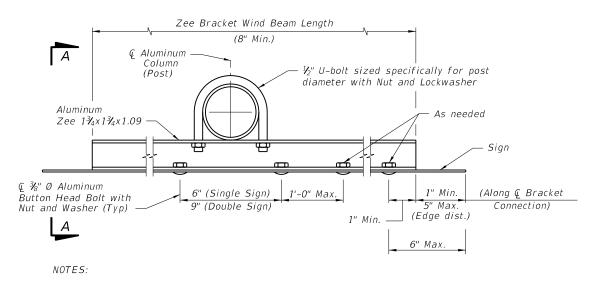
 Rectangular soil plate of size 1'-2" x 1'-0" may be used as an alternative.

POST AND FOUNDATION TABLES

LAST REVISION 01/01/11 ≥ DESCRIPTION:



NO.



- 1. $rac{N}{16}$ Ø Stainless Steel Hex Head Bolts with Flat Washer under Head and Lockwasher under Nut may be used in lieu of ¾" Ø Aluminum Button Head Bolts.
- 2. Nylon washers provided by the sheeting supplier shall be used on all ground mounted signs. The washers shall be installed under the sign bolt head to protect the sheeting.
- 3. Vertical spacing of brackets shall not exceed 2'-6". Use additional brackets, spaced evenly, to maintain maximum spacing.
- 4. Slots for U-bolts are allowed in zee bracket to accommodate various post diameters.

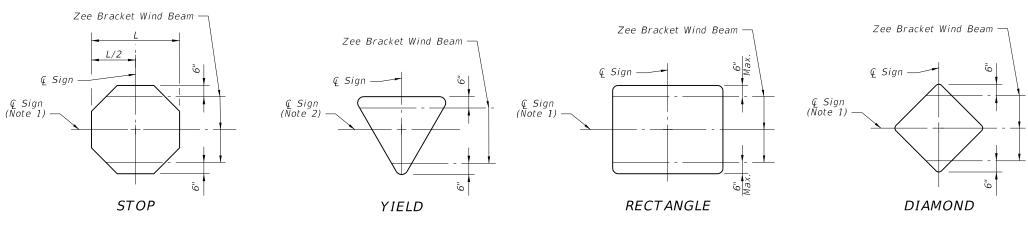
VIEW A-A

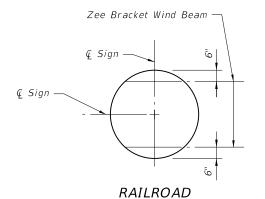
Aluminum

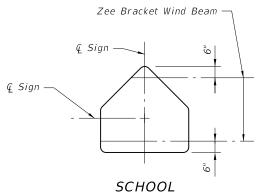
Column (Post)

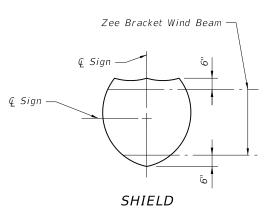
(Post) Use the area and the centroid location of the largest sign to determine column (post) size. SIGNS BACK-TO-BACK

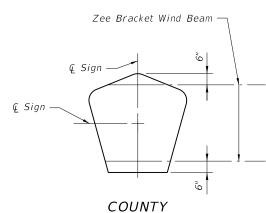
BRACKET DETAIL











Sign Face

Connection (Ç ¾" Ø Button Head Bolts)

Sign Face

Sign Face

Aluminum Column

1. For signs with heights greater than 30" a third zee bracket wind beam shall be installed along the Q.

Align top of signs

Sign Face

- For Yield signs greater than 36" a third zee bracket wind beam shall be installed along the Q.
- 3. Use only one Wind Beam at & Sign for sign height up to 12".

CONNECTION AND WIND BEAM

LAST REVISION 07/01/14

2015 DESIGN STANDARDS

SINGLE COLUMN GROUND SIGNS

INDEX NO. 11860

SHEET NO. 4 of 8

≥ DESCRIPTION:

Sleeve Bolts: ASTM A-307, $\frac{1}{2}$ " Ø galvanized steel bolt (with lock nuts) or Alloy 2024-T4 or 6061-T6 (ASTM B-211).

Base bolts, Nuts, and Washers: high strength ASTM A-325 galvanized per ASTM F2329.

Base plates may have either single or double beveled slots.

Cast base plate/sleeves, made of aluminum alloy 356 and T6 temper and bolted to aluminum pipe, may be used as an alternate to fabricated base plate welded aluminum pipe stub combination. For cast base plate and sleeves bolted to aluminum pipe foundation stubs, use a foundation stub of the same size as the sign column.

Assemble the slip base connection in the following manner:

a. Connect column to sleeve using two 1/2" Ø machine bolts.

b. Assemble top base plate to stub base plate using high strength bolts with three hardened washers per bolt. One of the three washers per bolt and two bolt keeper plates go between the base plates. Orient the bolt keeper plates in the Directions of Traffic.

c. Use shim stock as required to plumb the column.

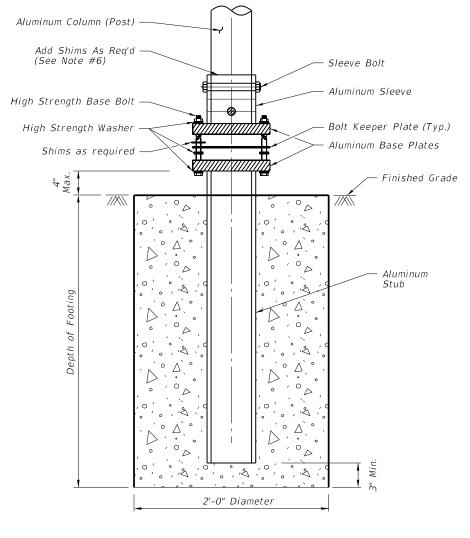
d.Tighten all bolts to the maximum possible with a 12" to 15" wrench. (This will bed the washers and shim's and clear the bolt threads.) e. Loosen each bolt one turn and using a calibrated wrench retighten to

the prescribed torque (see table) under the supervision of the Project Engineer

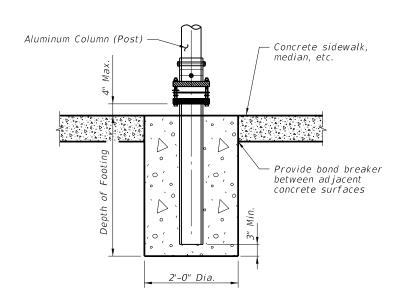
f. Burr threads at junction with nut using a center punch to prevent nut loosening. Use galvanized steel shims to obtain a tight fit between the column face

and the sleeve. Place shims in all quadrants between the $\frac{1}{2}$ " Ø sleeve bolts. Use shims that are 1" shorter than the height of the sleeve. Both fabricated and cast base assemblies were impact tested by the

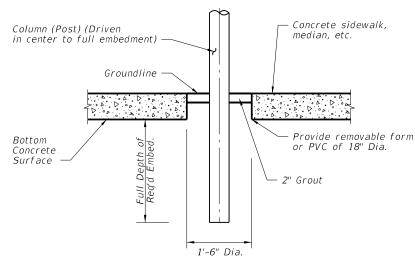
Texas Transportation Institute, College Station, TX on February 10, 2003, and both alternate assemblies were determined to be compliant with the performance recommendations of the National Cooperative Highway Research Program (NCHRP) report 350.



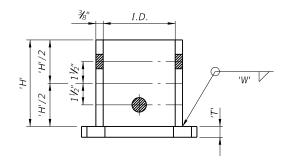
SLIP BASE AND FOOTING DETAIL (non-frangible post)

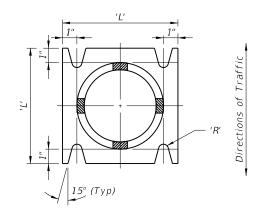


SLIP BASE AND FOOTING DETAIL IN CONCRETE (non-frangible post in crossovers, medians, & sidewalks)

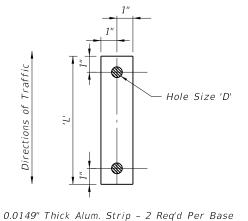


DRIVEN POST DETAIL IN CONCRETE (frangible post in crossovers, medians, & sidewalks)

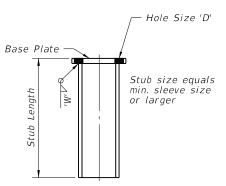




ALUMINUM SLEEVE & BASE PLATE DETAILS (DOUBLE BEVELED SLOTS)



BOLT KEEPER PLATE DETAIL



STUB DETAIL

SLIP BASE DETAILS

Column			Weld	Base	Plate	Radius	Base	Bolt	Base Pla	te Torque	Hole
Size	I.D. (Max)	Height 'H'	'W'	'L'	'T'	' <i>R</i> '	Size	Length	ft-lbs	inIbs	Size 'D'
$4 \times \frac{1}{4}$	$4\frac{1}{16}$	6	5/8	8	3/4	11/32	5%	3	29	345	11/16
$4\frac{1}{2} \times \frac{1}{4}$	4% ₆	6	5/8	8	7/8	11/32	5%	31/4	29	345	11/16
5 x ½	5½	7	5/8	8	7/8	11/32	5%	31/4	29	345	11/16
6 x ½	6½	8	11/16	9	1	13/ ₃₂	3/4	3½	46	554	¹³ / ₁₆
8 x 5/16	8½	10	3/4	11	1	15/ ₃₂	%	33/4	53	640	15/ ₁₆

Note: Unless noted otherwise, all dimensions are in inches.

BASE AND FOUNDATION DETAILS

LAST REVISION 07/01/14

2015 DESIGN STANDARDS

SINGLE COLUMN GROUND SIGNS

INDEX SHEET NO. NO. 11860 5 of 8

	Size	Area	Total Area	Centroid
ONE WAY	36×12	3.00 SF		
			6.31 SF	
STOP	24x24	3.31 SF		
	Size	Area	Total Area	Centroid
ONE WAY	36x12	3.00 SF		
STOP	30x30	5.18 SF	8.18 SF	1.92 Ft.
	Size	Area	Total Area	Centroid
ONE WAY	36×12	3.00 SF	_	
STOP	36x36	7.46 SF	10.46 SF	2.10 Ft.
	Size	Area	Total Area	Centroid
ONE WAY	36×12	3.00 SF		
	30/12	3.00 37	16.25 SF	
STOP	48×48	13.25 SF	_	
	Size	Area	Total Area	Centroid
STOP	24×24	3.31 SF	6.31 SF	
HIGHWAY	24×18	3.00 SF	-	
	Size	Area	Total Area	Centroid
STOP	30×30	5.18 SF	10.18 SF	
DIVIDED	30×24	5.00 SF		
	Size	Area	Total Area	Centroid
STOP	36x36	7.46 SF	12.46 SF	
HIGHWAY	30×24	5.00 SF		

	Size	Area	Total Area	Centroid
ONE WAY.	36×12	3.00 SF		
STOP	30x30	5.18 SF	13.18 SF	
DIVIDED	30x24	5.00 SF		
	Size	Area	Total Area	Centroid
ONE WAY	36x12	3.00 SF		
STOP	36x36	7.46 SF	15.46 SF	
DIVIDED	30x24	5.00 SF		
	Size	Area	Total Area	Centroid
JCT	21x15	2.19 SF		
27	24x24	4.00 SF	6.19 SF 	1.60 Ft. ——————
	Size	Area	Total Area	Centroid
JCT	21x15	2.19 SF		
301	30x24	5.00 SF	7.19 SF	1.52 Ft.
	Size	Area	Total Area	Centroid
BUSINESS OR EAST	24×12	2.00 SF		
27 27	24x24	4.00 SF	6.00 SF	1.53 Ft. — — — — — — -
	Size	Area	Total Area	Centroid
BUSINESS OR EAST	24x12	2.00 SF		
301 301	30x24	5.00 SF	7.00 SF	1.45 Ft. ——————
	Size	Area	Total Area	Centroid
BUSINESS OR EAST	30×15	3.13 SF		
301 301	30×24	5.00 SF	- 8.13 SF	1.66 Ft.

	Size	Area	Total Area	Centroid
27	24x24	4.00 SF	6.19 SF	1.73 Ft.
\(\rightarrow \)	21×15	2.19 SF		
	Size	Area	Total Area	Centroid
27	30×24	5.00 SF	7.19 SF	1.81 Ft.
+	21×15	2.19 SF		
	Size	Area	Total Area	Centroid
BUSINESS DR EAST	24×12	2.00 SF	_	
27 27	24x24	4.00 SF	8.19 SF	2.26 Ft.
→	21x15	2.19 SF		
	Size	Area	Total Area	Centroid
BUSINESS DR EAST	24x12	2.00 SF	_	
301 301	30×24	5.00 SF	9.19 SF	2.27 Ft.
→	21×15	2.19 SF		
	Size	Area	Total Area	Centroid
BUSINESS EAST	30×15	3.13 SF		
301 301	30×24	5.00 SF	10.32 SF	2.49 Ft.
→	21×15	2.19 SF		
	Size	Area	Total Area	Centroid
EAST	24×12	2.00 SF		
BUSINESS	24x12	2.00 SF		
27	24x24	4.00 SF	10.19 SF	2.80 Ft.
→	21×15	2.19 SF		

LAST REVISION 07/01/07

	C:	Ι	T-1-1 2	
	Size	Area	Total Area	Centroid
EAST	24x12	2.00 SF		
BUSINESS	24x12	2.00 SF		
301	30×24	5.00 SF	11.19 SF	2.76 Ft.
	21x15	2.19 SF		
	Size	Area	Total Area	Centroid
EAST	30×15	3.13 SF		
BUSINESS	30x15	3.13 SF	-	
301	30x24	5.00 SF	13.45 SF	3.16 Ft.
	21x15	2.19 SF		
	Size	Area	Total Area	Centroid
JCT	21x15	2.19 SF		
LEON 56 COUNTY	18×18	1.71 SF	3.90 SF 	1.57 Ft.
	Size	Area	Total Area	Centroid
JCT	21×15	2.19 SF	 	
LEON 56 COUNTY	24x24	3.03 SF	5.22 SF	1.72 Ft.
	Size	Area	Total Area	Centroid
JCT	21×15	2.19 SF		
$\overline{}$			6.95 SF	1.87 Ft.
LEON 56 COUNTY	30x30	4.76 SF		
	1	1	1	

		T .		
	Size	Area	Total Area	Centroid
LEON 56 COUNTY	18×18	1.71 SF	3.90 SF	1.26 Ft.
→	21×15	2.19 SF		
	Size	Area	Total Area	Centroid
LEON 56 COUNTY	24x24	3.03 SF	5.22 SF	- — — — — — — — — — — — — — — — — — — —
→	21×15	2.19 SF		
	Size	Area	Total Area	Centroid
LEON 56 COUNTY	30x30	4.76 SF	6.95 SF	- — — — — — — — — 1.97 Ft.
-	21×15	2.19 SF		
	Size	Area	Total Area	Centroid
ТО	24×12	2.00 SF	_	
EAST	24x12	2.00 SF		
NTERSTATE 75	24x24	3.20 SF	9.39 SF	2.87 Ft.
→	21×15	2.19 SF		
	Size	Area	Total Area	Centroid
ТО	24×12	2.00 SF		
EAST	24×12	2.00 SF		
295	30x24	3.99 SF	10.18 SF	2.84 Ft.
→	21×15	2.19 SF		

30x15 30x15 30x24 21x15 Size 21x15	3.13 SF 3.13 SF 3.99 SF 2.19 SF Area 2.19 SF	12.44 SF Total Area 5.39 SF	3.26 Ft. ————————————————————————————————————
30x24 21x15 Size 21x15 24x24	3.99 SF 2.19 SF Area 2.19 SF	Total Area	Centroid
21x15 Size 21x15 24x24	2.19 SF Area 2.19 SF	Total Area	Centroid
21x15 Size 21x15 24x24	2.19 SF Area 2.19 SF		
Size 21x15 24x24	Area 2.19 SF		
Size 21x15 24x24	Area 2.19 SF		
21x15 24x24	2.19 SF		
24x24		5.39 SF	 1.75 Ft.
	3.20 SF	5.39 SF	1.75 Ft.
	3.20 SF		
Sizo			
2128	Area	Total Area	Centroid
2115	2.10.55	-	
Z1X15	2.19 SF	6.10.55	167 5+
30x24	3.99 SF	0.18 5F	1.67 Ft. ——————
Size	Area	Total Area	Centroid
24×12	2.00 SF		
		5.20 SF	1.67 Ft.
24x24	3.20 SF		
Size	Area	Total Area	Centroid
	200 55		
24X1Z	2.00 SF	F.00. C5	1.60 5+
30x24	3.99 SF	- 5.99 SF 	1.60 Ft. ——————
Size	Area	Total Area	Centroid
		-	
30x15	3.13 SF	<u> </u>	
30x24	3.99 SF	- /.12 SF 	1.81 Ft. ——————
Size	Area	Total Area	Centroid
30x15	3.13 SF	<u> </u>	
36x36	7.20 SF	10.33 SF	2.27 Ft. ——————
	Size 24x12 24x24 Size 24x12 30x24 Size 30x15 30x24 Size 30x15	21x15	21x15

≥ DESCRIPTION: LAST REVISION 07/01/07

2015 FDOT DESIGN STANDARDS

	Size	Area	Total Area	Centroid
EAST TO	30x15	3.13 SF		
NTERSTATE 295	45x36	8.99 SF	12.12 SF	2.18 Ft.
	Size	Area	Total Area	Centroid
EAST TO	24x12	2.00 SF		
75 OR INTERSTATE 75	24x24	3.20 SF	7.39 SF	2.30 Ft.
→	21x15	2.19 SF		
	Size	Area	Total Area	Centroid
EAST TO	24x12	2.00 SF		
NTERSTATE 295	30x24	3.99 SF	8.18 SF	2.31 Ft.
→	21×15	2.19 SF		
	Size	Area	Total Area	Centroid
EAST TO	30×15	3.13 SF		
NTERSTATE 295	30x24	3.99 SF	9.31 SF	2.55 Ft.
→	21x15	2.19 SF		
	Size	Area	Total Area	Centroid
	30×30	4.69 SF	6.69 SF	1.61 Ft.
AHEAD 200 FT	24x12	2.00 SF		
	Size	Area	Total Area	Centroid
	30x30	4.69 SF	8.44 SF	1.77 Ft.
AHEAD 200 FT	30x18	3.75 SF		
	Size	Area	Total Area	Centroid
OR M	36×36	6.75 SF	10.50 SF	2.06 Ft.
AHEAD 200 FT	30x18	3.75 SF		

	Size	Area	Total Area	Centroid
AR	30X30	4.69 SF	6.69 SF	1.61 Ft.
	24X12	2.00 SF		
	Size	Area	Total Area	Centroid
	30X30	4.69 SF	8.44 SF	
	30X18	3.75 SF		
	Size	Area	Total Area	Centroid
	36X36	6.75 SF	 10.50 SF	
	30X18	3.75 SF		
	Size	Area	Total Area	Centroid
	30X30	6.25 SF	8.25 SF	
AHEAD	24X12	2.00 SF		
	Size	Area	Total Area	Centroid
	36X36	9.00 SF	12.75 SF	
AHEAD	30X18	3.75 SF		
	Size	Area	Total Area	Centroid
\Diamond	30X30	6.25 SF	10.25 SF	
35 _{MPH}	24X24	4.00 SF	-	
	Size	Area	Total Area	Centroid
\Diamond	36X36	9.00 SF		
35 MPH	30X30	6.25 SF		

	Size	Area	Total Area	Centroid
	30X30	6.25 SF		
X MILES FEET	24X18	3.00 SF		
	Size	Area	Total Area	Controld
	3120	Area	TULAI ALEA	Centroid
OR OR	36X36	9.00 SF	14.00 SF	3.06 Ft.

LAST REVISION 07/01/07