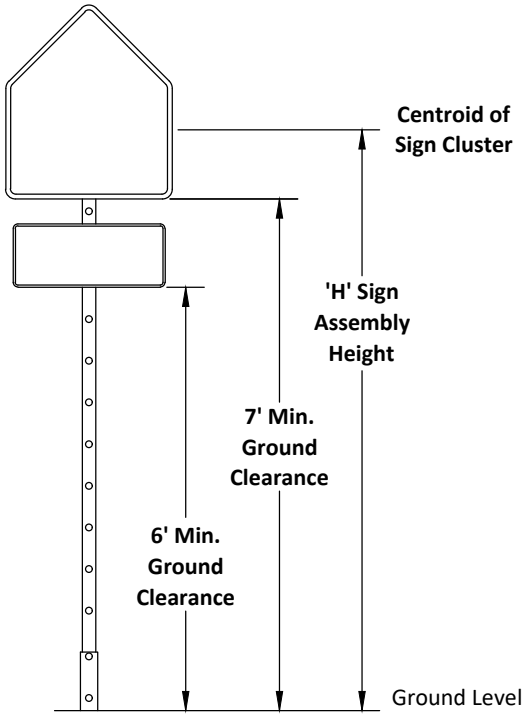
GUIDE TO USE THIS STANDARD:

1. Calculate the Total Panel Area and the centroid 'C' for an individual sign or a sign cluster.
2. Determine the height 'H' from the groundline for the individual sign or the sign cluster.
3. Consult the Post Size Table and find the intersection point.
4. Design the post and the foundation according to the required Post Size and Assembly Details.

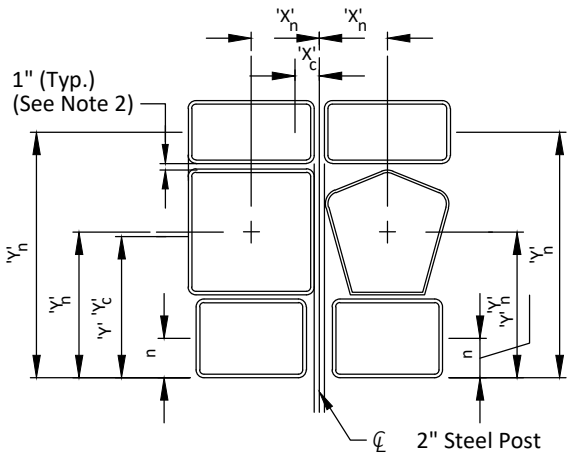


Post Size Table

TOTAL PANEL AREA (SF)	'H' (ft) 8	8.5	9	9.5	10
3					
4					
5	Sign Post with 3" x 7 ga. Square Anchor				
6					
7					
8					
9					
10					
11	Sign Post with Triangular Slip Base Assembly				
12					
13					
14					
15					
16					
17					
18			Two Post		
19		Installation Required with Triangular Base			
20+					

LATEST REVISION 2019	SIGNING - GROUND SIGN ASSEMBLY DETAILS	STANDARD DETAIL
	CITY OF WEST PALM BEACH - ENGINEERING SERVICES	S-1

SIGN CLUSTER



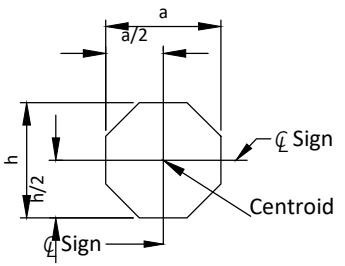
$$'X'_c = \frac{\Sigma\,('X'_n \times 'A'_n)}{\Sigma\,'A'_n} \qquad 'C' = 'Y'_c = \frac{\Sigma\,('Y'_n \times 'A'_n)}{\Sigma\,'A'_n}$$

$'A'_n$	=	Area of individual sign
h	=	Individual sign height
a	=	Individual sign width
$'X'_c$	=	Centroid horizontal location of sign or cluster from ℄ Steel Post
$'Y'_c$	=	Centroid height of sign or cluster from bottom of sign cluster
$'X'_n$	=	Individual sign centroid horizontal location from ℄ Steel Post
$'Y'_n$	=	Individual sign centroid height from bottom of sign cluster

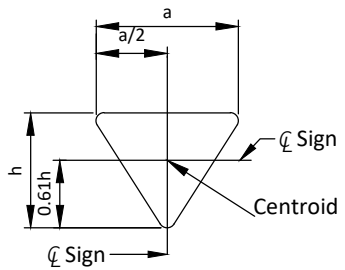
Notes:

1. For sign clusters that exceed an area of 20 SF, see note on Standard Detail S-3. If two post installation exceeds 150 mph 2013 AASHTO standard, see FDOT Standard Plans Index 700-010.
2. Vertical sign spacing (1" shown on Sign Cluster detail) also applies to rotated signs.
3. If $'X'_c > 6"$, it is a cantilever sign and shall be designed per FDOT Standard Plans Index 700-010, 700-011.

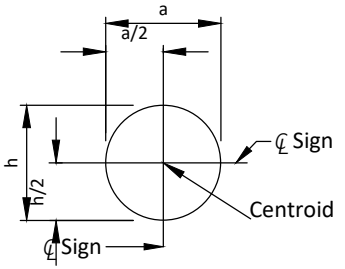
CALCULATION OF SIGN CLUSTER CENTROID 'C'



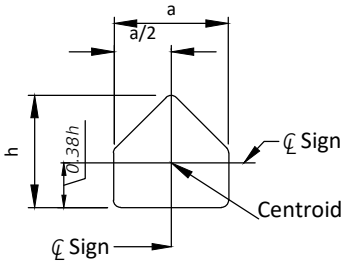
STOP



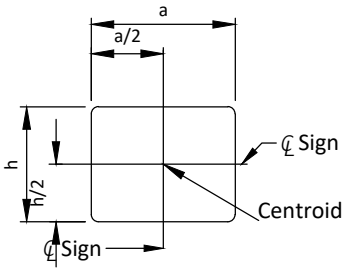
YIELD



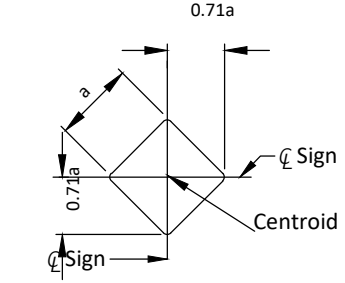
RAILROAD



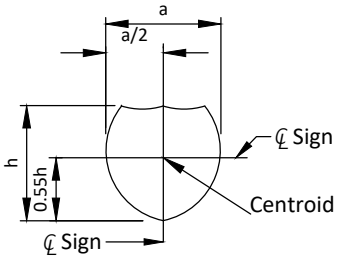
SCHOOL



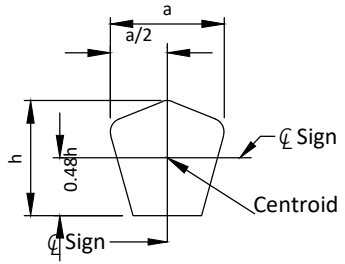
RECTANGLE



DIAMOND



SHIELD

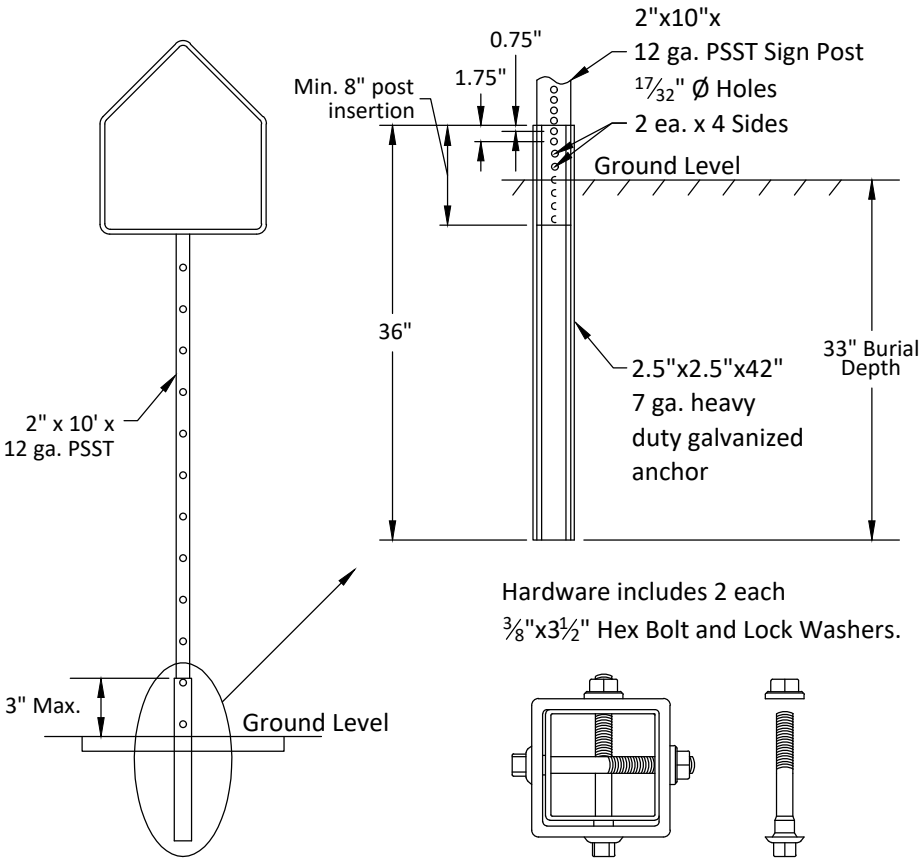


COUNTY

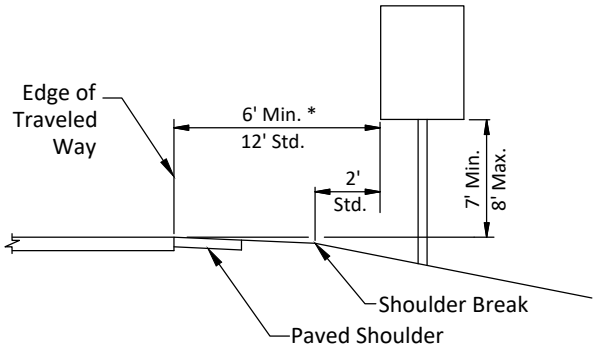
LATEST REVISION 2019	SIGNING - GROUND SIGN ASSEMBLY DETAILS, CONT.	STANDARD DETAIL
	CITY OF WEST PALM BEACH - ENGINEERING SERVICES	S-2

SIGN POST WITH 2.5"x7 GA. SQUARE ANCHOR

PERFORATED SQUARE TUBE (PSST) SIGN POST
The square tube sign post shall be 2" square, perforated, hot-dipped galvanized, 12-guage, graded 50 steel. The post shall be installed with in-ground fitted sleeve anchor as shown in detail.

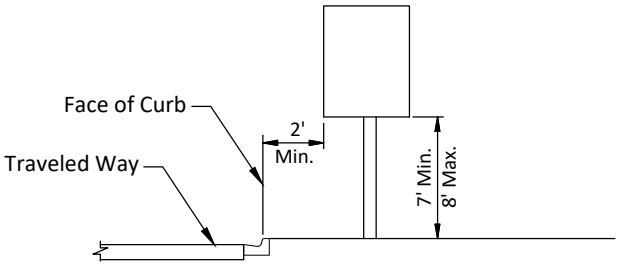


Note: The base connection details are only shown on this plan to illustrate how the parts are assembled. The complete assembly must be designed to withstand 150 mph Base Wind Speed per 2013 AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 6th edition and interims.

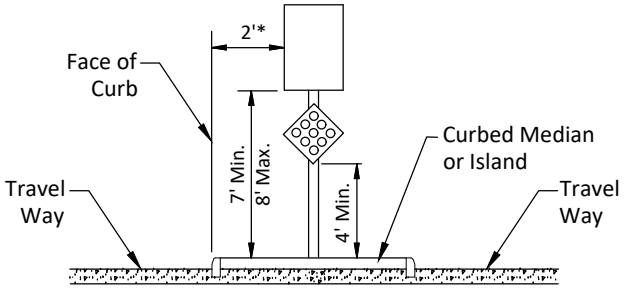


* Stop and Yield setback may be reduced to 3' minimum from the Edge of Travel Way if required for visibility in business or residential sections with no curb and speeds of 30 MPH or less.

CASE I
Use on All Uncurbed Roadways

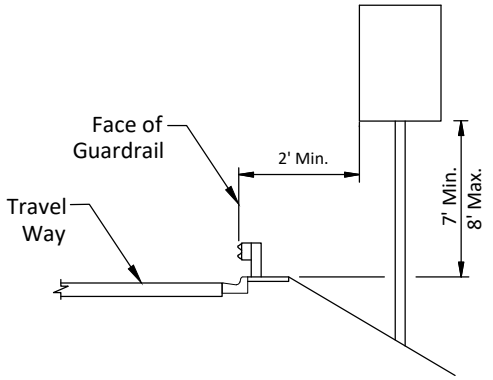


CASE II
Use on All Curbed Roadways



* For Separators < 6', Center The Sign Within The Separator. Center Sign Column On Island

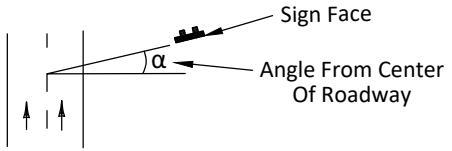
CASE III
Use on Island or Curbed Median



CASE IV
Use on All Roadways With Signs Behind Guardrail

General Notes:

1. Single-Post Signs shown, Multi-Post Signs similar location. The typical sections serve as a guide for locating the traffic signs required under various roadside conditions. All sign installation shall follow M.U.T.C.D. as a minimum standard.
2. For size and details of sign construction and footing, refer to City Standard Detail S-1 and the Plans.
3. Verify the length of sign supports in the field prior to fabrication.
4. Install ground signs at an angle of 1 to 4 degrees away from the traffic flow (see illustration). Install shoulder mounted signs rotated counterclockwise and median mounted signs rotated clockwise. Install signs on a curve as noted above from the perpendicular to the motorist line of sight.



5. The mounting heights are measured from the bottom of the sign panel to a horizontal line extended from the Edge of Traveled Way or from the ground surface at the back of curb.
6. Do not install sign supports in the bottom of ditches.
7. Install sign supports so they do not reduce the accessible width of Sidewalks or Shared Use Paths to less than 4' min. clear width.
8. Call for locates and soft digs prior to post installation.

LATEST REVISION 2019	SIGNING - GROUND SIGN ASSEMBLY DETAILS, CONT.	STANDARD DETAIL
	CITY OF WEST PALM BEACH - ENGINEERING SERVICES	S-4