Index 11870 Single Post Bridge Mounted Sign Support

Design Criteria

AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, 5th Edition (LTS-5); ***Structures Manual*** Volume 9, FDOT Modifications to LTS-5; ***Structures Manual*** Introduction, I.6 References; ***Structures Design Guidelines (SDG)***.

Design Assumptions and Limitations

See notes on the ***Design Standard*** and ***Structures Manual*** Volume 9. See also ***PPM*** Volume 1, Chapters 7 and 29.

Limit the use of the Single Post Bridge Mounted Signs to Traffic Railings on Bridges and MSE walls where ground mounting is not feasible and signing cannot be placed outside of their limits.

Tabulated Maximum Sign Area, Dim A and Dim C, are based on Wind Speeds of 110 MPH, 130 MPH and 150 MPH at a bridge height of 75' above surrounding areas.

Sign Post clearance from front face of barrier is detailed to meet the maximum setback distance requirements of ***SDG*** 6.7.

Sign Supports have been detailed for placement on new or existing concrete traffic and pedestrian railings.

Undercut Anchors may be used in lieu of Adhesive bonded Anchors when approved by the DSDE and the State Structures Engineer, on a project-by-project basis. If approved, project specific details will be required in the plans. When using Undercut Anchors, the designer must submit a request to the District Specifications Office to use Developmental Specifications Dev 416 and Dev 937 for Post-installed Anchor Systems which includes provisions for both Adhesive Bonded Anchors and Undercut Anchors. See ***SDG*** 1.6 for more information.

Plan Content Requirements

See ***PPM*** Volume 2, Chapter 23. Include cross reference to Design Standards Index 11870 and show minimum distance from gutterline to bottom of the sign or sign cluster.

Payment

Item number	Item description	Unit Measure
700-20-AB	Single Post Sign	AS

Sign structures are included in the cost of the Sign under 700-20-AB.