Index 11871 Single Post Median Barrier Mounted Sign Support (Rev. 07/12)

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), Structures Design Bulletin (SDB) 12-03***.

Design Assumptions and Limitations

See notes on the ***Design Standard*** and ***Structures Manual*** Volume 9. See also Roadway Design Bulletin 12-11.

Limit the use of the Single Post Median Barrier Mounted Signs to locations where those signs are critical to safety (i.e. No U Turns, Warning Signs for lane control or lane reduction etc.) not enforcement (i.e. speed limit signs).

This index shall not be used for mounting permanent signs to shoulder traffic railings unless there is insufficient room to accommodate the use of Index 11870.

For permanent signs, tabulated maximum sign areas and corresponding post diameters are based on wind speeds of 110, 130, and 150 mph installed on barriers less than 30 feet above surrounding areas. Base plates Type A and B are sized for permanent installations and designed for wind speeds up to 150 mph when installed on existing FDOT Standard concrete traffic railings with ¾" anchor bolts.

Temporary sign post and plate Type C designs are based on a wind speed of 70 mph with a maximum 20 square foot sign. These sign structures are designed for temporary placement on all standard FDOT barriers, including installations on the temporary concrete barriers in Indexes 414 and 415.

Anchorage details are for Adhesive Bonded Anchors. 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.

Payment

Item number	Item description	Unit Measure
700-20-AB	Single Post Sign, F & I Barrier Wall Mounted	AS
102-60	Work Zone Signs	ED