Index 11871 Single Post Median Barrier Mounted Sign Support (Rev. 01/16)

Design Criteria

AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, 6th Edition (LTS-6); ***Structures Manual*** Volume 3, FDOT Modifications to LTS-6; ***Structures Manual*** Introduction, I.6 References; ***Structures Design Guidelines (SDG)***

Design Assumptions and Limitations

See notes on ***Design Standards***, Index 11871, the ***Plans Preparation Manual (PPM)***, Volume 1, Sections 4.5 and 7.2.5.

Do not use this Index 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" diameter anchor bolts.

Temporary sign post and plate Type C designs are based on a wind speed of 70 mph with a maximum 24 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

For Permanent Signs:

See ***PPM*** Volume 2, Chapter 23.

For all Temporary/Work Zone Signs:

Use ***Design Standards*** Index 600 to layout sign locations in the plans. ***Design Standards*** Index 600 requires signs to be post mounted. When post mounted criteria cannot be met, the Designer must use ***Design Standards*** Index 11871, show the location of the barrier mounted signs in the plans, and include the pay item for barrier mounted work zone signs. However, to reduce the amount of barrier mounted work zone signs, modify the sign spacing as allowed by Index 600.

Payment

Item number	Item description	Unit Measure
700-1-AB	Single Post Sign, F & I Barrier Wall Mounted	AS
102-62	Barrier Mounted Work Zone Sign	ED