Index 700-013 Single Post Sign Support Barrier Top-Mounted

Design Criteria

AASHTO LRFD Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals (LRFDLTS-1); ***Structures Manual (SM)***, Volume 3, FDOT Modifications to LRFDLTS-1; ***Structures Manual (SM)*** Introduction, I.6 References; ***Structures Design Guidelines (SDG)***; ***FDOT Design Manual (FDM)***

Design Assumptions and Limitations

See notes on ***Index 700-013***, ***FDM 215***, ***FDM 230***, ***FDM 261***, and the ***Structures Manual (SM)***, Volume 3. Work with ***Index 700-010***.

Do not use ***Index 700-013*** for mounting permanent signs to shoulder traffic railings or concrete barriers unless there is insufficient room to accommodate the use of ***Indexes 700-010*** or ***700-012***. Intended for use with static signs only.

For permanent signs, tabulated maximum sign areas and corresponding post diameters are based on a wind speed of 110 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 a wind speed of up to 110 mph when installed on existing FDOT Standard concrete traffic railings/barriers with 1" diameter anchor bolts.

Temporary sign post and plate (Base Plate Type C) designs are based on a wind speed of 80 mph with a maximum 24 square foot sign. These sign structures are designed for temporary placement on all standard FDOT barriers, including installations on temporary concrete barriers covered by ***Index 102-100***.

Anchorage details are for Adhesive Bonded Anchors. Undercut Anchors may be used in lieu of Adhesive Bonded Anchors when approved by the District Structures Design Engineer 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*** ***Dev416*** and ***Dev937*** for Post-installed Anchor Systems which includes provisions for both Adhesive Bonded Anchors and Undercut Anchors. See the ***SDG 1.6*** for more information.

Plan Content Requirements

For Permanent Signs:

See the ***FDM 940***.

For all Temporary/Work Zone Signs:

Use ***Index 102-600*** to layout sign locations in the Plans. ***Index 102-600*** requires signs to be post mounted. When post mounted criteria cannot be met, use ***Index 700-013***, 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, increase the sign spacing as allowed by ***Index 102-600***.

Payment

Item number	Item Description	Unit Measure
700-1-2B	Single Post Sign (F&I, Barrier Mount)	AS
102-62-13	Barrier Mounted Work Zone Sign (Index 102-013)	ED

See the ***BOE*** and ***Specification 700*** for additional information on payment, pay item use and compensation.