



NOTES:

1. The Contractor shall verify the pole and dimensions required for installation of the Sign Bracket Arm and mounting angle before manufacturing Sign Bracket Arm.
2. Work this sheet with Sign Bracket Arm - Sign Panel Details sheet for additional installation details.
3. DESIGN WIND SPEED = 150 MPH
 Design Loads from the center of the vertical pipe are as follows:
 Horizontal Moment = 9329 FT LBS Vertical Moment = 2753 FT LBS
 Horizontal Shear = 1696 LBS Vertical Shear = 319 LBS
4. The Contractor may propose an alternative Sign Bracket Arm design at no additional cost to the Hillsborough County. The Contractor's alternative shall be designed in accordance with the latest edition of the FDOT Plans Preparation Manual and AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaries and Traffic Signals.
4. If an alternate design is proposed the Contractor shall submit design calculations and shop drawings signed and sealed by a Professional Engineer Registered in the State of Florida.
6. All Structural Steel except for Structural Tubing shall conform to ASTM A572 Grade 50. Structural Tubing shall conform to ASTM A53 Grade B. All bracket plates shall be hot bent.
7. All Bolts shall be High Strength A325 Bolts and shall receive Electrodeposited Coating in accordance with ASTM B633.
8. The Complete Sign Bracket Arm Assembly shall be hot-dipped Galvanized in accordance with ASTM A123.
9. WELDING: All Welding shall be in accordance with American Welding Society Structural Welding Code (Steel), ANSI/AWS D1.1 (current edition). Required weld material is E70XX. Nondestructive testing is not required.
10. Field Welding shall not be permitted.

REVISION DATE:

10/17

**TRANSPORTATION
TECHNICAL
MANUAL**



**Hillsborough
County Florida**

**SIGN BRACKET ARM (TWO-WAY)
TYPICAL DETAILS**

DRAWING NO. TD-13

SHEET NO. 3 OF 4