



*Florida Department of Transportation*

RON DESANTIS  
GOVERNOR

605 Suwannee Street  
Tallahassee, FL 32399-0450

KEVIN J. THIBAUT, P.E.  
SECRETARY

January 26, 2021

Khoa Nguyen  
Director, Office of Technical Services  
Federal Highway Administration  
3500 Financial Plaza, Suite 400  
Tallahassee, Florida 32312

Re: State Specifications Office  
Section: **700**  
Proposed Specification: **7000419 HIGHWAY SIGNING.**

Dear Mr. Nguyen:

We are submitting, for your approval, two copies of the above referenced Supplemental Specification.

The changes are proposed by Derek Vollmer from the Traffic Engineering and Operations Office to add new interfaces to connect with electronic sign controllers and update language in the Standard Specification. Please note this proposed change is complemented by the pending proposed change to Section 611.

Please review and transmit your comments, if any, within two weeks. Comments should be sent via email to [daniel.strickland@dot.state.fl.us](mailto:daniel.strickland@dot.state.fl.us).

If you have any questions relating to this specification change, please call me at 414-4130.

Sincerely,

Signature on file

Daniel Strickland, P.E.  
State Specifications Engineer

DS/dh

Attachment

cc: Florida Transportation Builders' Assoc.  
State Construction Engineer

## HIGHWAY SIGNING (REV 11-12-20)

SUBARTICLE 700-4.19 is deleted and the following substituted:

**700-4.19 Installed Site Tests:** ~~Conduct an approved, stand-alone equipment installation test at the field site. Test all stand-alone (i.e., non-network) functions of the field equipment using equipment installed as detailed in the Plans and as approved by the Engineer.~~

~~Complete approved data forms and turn them over to the Engineer for review and as a basis for rejection or acceptance. Provide a minimum notice of 30 calendar days prior to all tests to permit the Engineer or their representative to observe each test.~~

~~If any unit fails to pass its stand-alone test, correct the unit or substitute another unit in its place, then repeat the test.~~

~~If a unit has been modified as a result of a stand-alone test failure, prepare a report describing the nature of the failure and the corrective action taken and submit it to the Engineer prior to re-testing the unit. If a failure pattern develops, the Engineer may direct that design and construction modifications be made to all units without additional cost to the Department or an extension of the Contract Time.~~ Conduct Intelligent Transportation System Device Installation testing in accordance with Section 611.

SUBARTICLE 700-4.20 is deleted and the following substituted:

**700-4.20 System Testing:** ~~Conduct approved DMS system tests on the field equipment with the master equipment including, at a minimum, all remote control functions. Display the return status codes from the sign controller for a minimum of 72 hours. Complete approved data forms and turn them over to the Engineer for review, and as a basis for rejection or acceptance.~~

~~Demonstrate the sign's ability to display the proper predefined message or remain blank when power is restored following an AC power interruption.~~

~~If the system test fails because of any subsystem component, repair that component or substitute another in its place, then repeat the test. If a component has been modified as a result of a system test failure, prepare a report and submit it to the Engineer prior to retesting.~~ Conduct Intelligent Transportation System Device Installation testing in accordance with Section 611.

SUBARTICLE 700-4.21 is deleted and the following substituted:

**700-4.21 Operational Testing:** ~~After the system testing is successfully completed; conduct one continuous 72-hour, full-operating test prior to conducting the 30-day acceptance test. The Engineer will approve the type of tests to be conducted. Include in the tests all control, monitoring, and communications functions of the field equipment by the master equipment.~~

**Warranty:** Ensure that the DMS system and equipment has a manufacturer's warranty covering defects for a minimum of five years from the date of final acceptance by the Engineer in accordance with 5-11 and Section 608.

SUBARTICLE 700-4.22 is deleted and the following substituted:

~~700-4.22~~**Acceptance Testing:** Conduct a 30 day acceptance test after the successful completion of the approved 72 hour operational test. During the 30 day test period, limit downtime due to mechanical, electrical, or other malfunctions to a maximum total of five calendar days. If the equipment fails to operate for a total of five or more calendar days, testing will be restarted. The Engineer may select to pause and extend the 30 day test period by the number of days lost by failure and repair time in lieu of restarting the full 30 day test. The Engineer will submit to the Contractor a letter of approval and completion stating the first and last day of the 30 day test period. **Method of Measurement:** For each DMS, the quantity to be paid will be each sign furnished, installed, completed in accordance with the details shown in the Plans, warranted, made fully operational, and tested in accordance with Section 611.

For each DMS Support Structure, the quantity to be paid will be each structure furnished, installed, completed in accordance with the details shown in the Plans; including posts and supports, catwalks, handrails, footings, excavation, site grounding, painting, and incidentals necessary to complete the work.

SUBARTICLE 700-4.23 is deleted and the following substituted:

~~700-4.23~~**Warranty:** Ensure that the DMS system and equipment has a manufacturer's warranty covering defects for a minimum of five years from the date of final acceptance by the Engineer in accordance with 5-11 and Section 608. **Basis of Payment:** Price and payment will be full compensation for furnishing all materials and completing all work as specified in this Section or as shown in the Plans.

Payment will be made under:

- Item No. 700- 7- Embedded Dynamic Message Sign - each.
- Item No. 700- 8- Front Access Dynamic Message Sign - each.
- Item No. 700- 9- Walk-in Dynamic Message Sign - each.
- Item No. 700- 10- Dynamic Message Sign Support Structure - each.

SUBARTICLE 700-4.24 is deleted.

~~700-4.24~~**Method of Measurement:** For each DMS, the quantity to be paid will be each sign furnished, installed, complete in accordance with the details shown in the Plans, warranted, made fully operational, and tested in accordance with the specifications in this Section.

~~For each DMS Support Structure, the quantity to be paid will be each structure furnished, installed, complete in accordance with the details shown in the Plans; including posts and supports, catwalks, handrails, footings, excavation, site grounding, painting, and incidentals necessary to complete the work.~~

SUBARTICLE 700-4.25 is deleted.

~~700-4.25 Basis of Payment: Price and payment will be full compensation for furnishing all materials and completing all work as specified in this Section or as shown in the Plans.~~

~~Payment will be made under:~~

~~Item No. 700-7 Embedded Dynamic Message Sign each.~~

~~Item No. 700-8 Front Access Dynamic Message Sign each.~~

~~Item No. 700-9 Walk-in Dynamic Message Sign each.~~

~~Item No. 700-10 Dynamic Message Sign Support Structure each.~~

SUBARTICLE 700-5.2.3.1 is deleted and the following substituted:

**700-5.2.3.1 Communication:** The electronic display controller shall possess a minimum of one serial, Ethernet, USB, or Bluetooth interface with the ability to connect to a laptop computer. The serial data interface shall support multiple data rates from 9,600 bps to 115,200 bps.

**HIGHWAY SIGNING**  
**(REV 11-12-20)**

SUBARTICLE 700-4.19 is deleted and the following substituted:

**700-4.19 Installed Site Tests:** Conduct Intelligent Transportation System Device Installation testing in accordance with Section 611.

SUBARTICLE 700-4.20 is deleted and the following substituted:

**700-4.20 System Testing:** Conduct Intelligent Transportation System Device Installation testing in accordance with Section 611.

SUBARTICLE 700-4.21 is deleted and the following substituted:

**700-4.21 Warranty:** Ensure that the DMS system and equipment has a manufacturer's warranty covering defects for a minimum of five years from the date of final acceptance by the Engineer in accordance with 5-11 and Section 608.

SUBARTICLE 700-4.22 is deleted and the following substituted:

**700-4.22 Method of Measurement:** For each DMS, the quantity to be paid will be each sign furnished, installed, completed in accordance with the details shown in the Plans, warrantied, made fully operational, and tested in accordance with Section 611.

For each DMS Support Structure, the quantity to be paid will be each structure furnished, installed, completed in accordance with the details shown in the Plans; including posts and supports, catwalks, handrails, footings, excavation, site grounding, painting, and incidentals necessary to complete the work.

SUBARTICLE 700-4.23 is deleted and the following substituted:

**700-4.23 Basis of Payment:** Price and payment will be full compensation for furnishing all materials and completing all work as specified in this Section or as shown in the Plans.

Payment will be made under:

- Item No. 700- 7- Embedded Dynamic Message Sign - each.
- Item No. 700- 8- Front Access Dynamic Message Sign - each.
- Item No. 700- 9- Walk-in Dynamic Message Sign - each.
- Item No. 700- 10- Dynamic Message Sign Support Structure - each.

SUBARTICLE 700-4.24 is deleted.

SUBARTICLE 700-4.25 is deleted.

SUBARTICLE 700-5.2.3.1 is deleted and the following substituted:

**700-5.2.3.1 Communication:** The electronic display controller shall possess a minimum of one serial, Ethernet, USB, or Bluetooth interface with the ability to connect to a laptop computer. The serial data interface shall support multiple data rates from 9,600 bps to 115,200 bps.