



Florida Department of Transportation

RICK SCOTT
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

ANANTH PRASAD, P.E.
SECRETARY

July 18, 2012

Monica Gourdine
Program Operations Engineer
Federal Highway Administration
545 John Knox Road, Suite 200
Tallahassee, Florida 32303

Re: Office of Design, Specifications
Section **781**
Proposed Specification: **7810302 Intelligent Transportation Systems – Motorist Information Systems.**

Dear Ms. Gourdine:

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

This change is proposed by Gene Glotzbach of the Traffic Engineering and Operations Office to incorporate current standard warranty language for consistency with other specifications and to clarify that lifting eyebolts must be galvanized or stainless.

Please review and transmit your comments, if any, within two weeks. Comments should be sent via email to SP965TT or trey.tillander@dot.state.fl.us.

If you have any questions relating to this specification change, please call me at 414-4140.

Sincerely,

Signature on File

V. Y. "Trey" Tillander, III, P.E.
State Specifications Engineer

TT/ft

Attachment

cc: Florida Transportation Builders' Assoc.
State Construction Engineer

INTELLIGENT TRANSPORTATION SYSTEMS - MOTORIST INFORMATION SYSTEMS.

(REV ~~1-11-12~~~~6-1-12~~) (~~FA 2-1-12~~) (~~7-12~~)

SUBARTICLE 781-3.2 (of the Supplemental Specifications) is deleted and the following substituted:

781-3.2 Sign Housing Requirements for all DMS: Ensure that the external skin of the sign housing is constructed of aluminum alloy 5052 H32 that is a minimum of 0.125 inch thick for walk-in DMS and 0.090 inch thick for front and embedded DMS. Ensure the interior structure is constructed of aluminum. Ensure that the sign housing design and appearance is approved by the Engineer. Ensure that no internal frame connections or external skin attachments rely upon adhesive bonding or rivets.

Ensure the sign enclosure meets the requirements of NEMA TS4 2005, section 3.1.1. Ensure that all drain holes and other openings in the sign housing are screened to prevent the entrance of insects and small animals.

Ensure that the sign housing complies with the fatigue resistance requirements of the fifth edition (2001) American Association of State Highway and Transportation Officials (AASHTO) Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals with current addendums. Design and construct the DMS unit for continuous usage of at least 20 years and the sign structure for a 50-year design life. Ensure that equipment and structures are designed to withstand loads, including a wind load of 150 miles per hour, as defined in the FDOT Structures Manual without deformation or damage.

Ensure that the top of the housing includes multiple *galvanized or stainless* steel lifting eyebolts or equivalent hoisting points. Ensure hoist points are positioned such that the sign remains level when lifted. Ensure that the hoist points and sign frame allow the sign to be shipped, handled, and installed without damage.

Ensure all assembly hardware, including nuts, bolts, screws, and locking washers less than 5/8 inch in diameter, are type 304 or 316 passivated stainless steel and meet the requirements of American Society for Testing and Materials (ASTM) F 593 and ASTM F 594. All assembly hardware greater than or equal to 5/8 inch in diameter must be galvanized and meet the requirements of ASTM A 307.

Ensure all exterior, excluding the sign face, and all interior housing surfaces are a natural aluminum mill finish. Ensure signs are fabricated, welded, and inspected in accordance with the requirements of the current American National Standard Institute/American Welding Society (ANSI/AWS) Structural Welding Code-Aluminum.

Ensure the sign housing meets the requirements of NEMA TS4 2005, section 3.2.8 for convenience outlets.

SUBARTICLE 781-3.7 (of the Supplemental Specifications) is deleted and the following substituted:

781-3.7 Operational Support Supplies: Furnish the operational support supplies listed in the table below. Promptly replace any of the supplies used to perform a ~~warranty~~ repair *during the warranty period in accordance with 611-5.*

For every group of 10 or fewer DMS provided or required, provide one set of supplies as follows:

1 each	Sign controller and I/O board(s)
10 each	LED display modules
1 each	Display power supply
1 each	Uninterruptible power supply
1 each	Cable for connecting interface circuits to daughter boards
1 each	Display module cables
2 each	Surge suppression sets
1 each	Fan assembly
1 each	Time relay for fan control
10 each	Each type of small fuse (≤ 10 amp)
2 each	Each type of large fuse (> 10 amp)
1 each	Each type of sensor

SUBARTICLE 781-6 (of the Supplemental Specifications) is deleted and the following substituted:

781-6 ~~Guaranty Provisions~~Warranty.

Ensure that the manufacturer will furnish replacements for any part or equipment found to be defective during the warranty period at no cost to the Department or the maintaining agency within 10 calendar days of notification.

Ensure that the DMS and HAR systems and equipment ~~furnished~~ have a manufacturer's warranty covering defects ~~in assembly, fabrication, and materials~~ for a minimum of five years from the date of final acceptance by the Engineer in accordance with 5-11 ~~and Section 608 of all the work to be performed under the Contract.~~

Ensure that the RWIS equipment and components ~~furnished~~ have a manufacturer's warranty covering defects ~~in assembly, fabrication, and materials~~ for *a minimum of* three years from the date of final acceptance by the Engineer in accordance with 5-11 ~~and Section 608 of all the work to be performed under the Contract.~~

~~————If the manufacturer's warranties for these systems and components are for a longer period, those longer period warranties will apply.~~

~~Ensure that the manufacturers' warranties on DMS, RWIS, and HAR systems are fully transferable from the Contractor to the Department. Ensure that these warranties require the manufacturer to furnish replacements for any part or equipment found to be~~

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~~defective during the warranty period at no cost to the Department or the maintaining agency within 10 calendar days of notification by the Department.~~

INTELLIGENT TRANSPORTATION SYSTEMS - MOTORIST INFORMATION SYSTEMS.**(REV 6-1-12)**

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781-6 Warranty.

Ensure that the manufacturer will furnish replacements for any part or equipment found to be defective during the warranty period at no cost to the Department or the maintaining agency within 10 calendar days of notification.

Ensure that the DMS and HAR systems and equipment have 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.

Ensure that the RWIS equipment and components have a manufacturer's warranty covering defects for a minimum of three years from the date of final acceptance by the Engineer in accordance with 5-11 and Section 608.