

## ORIGINATION FORM

**Date:** May 17, 2012

**Originator:** Gene Glotzbach

**Contact Information:**

Traffic Engineering and Operations, ITS Section  
850-410-5600

**Specification Title:**

Intelligent Transportation System – Motorist Information Systems

**Specification Section, Article, or Subarticle Number:** 781

**Why does the existing language need to be changed?** The specification must be updated to incorporate standard warranty language and clarify manufacturer warranty requirements and clarify that lifting eyebolts must be galvanized or stainless.

**Summary of the changes:** The changes incorporate current standard warranty language for consistency with other specifications. The update uses the term “warranty” vs. “guaranty” to differentiate manufacturer’s warranties from other guarantees and further clarify aspects of the manufacturer’s warranty requirements for equipment. The edits also state lifting eyebolts must be galvanized or stainless steel.

**Are these changes applicable to all Department jobs? If not, what are the restrictions?**  
Applicable to jobs where motorist information systems are required.

**Will these changes result in an increase or decrease in project costs? If yes, what is the estimated change in costs?** No significant increase or decrease in project costs is expected.

**With who have you discussed these changes?** Traffic Operations and Specification Office staff.

**What other offices will be impacted by these changes?** We do not expect these minor updates to have significant impact on other offices.

**Are changes needed to the PPM, Design Standards, SDG, CPAM or other manual?** No.

**Is a Design Bulletin, Construction Memo, or Estimates Bulletin needed?** No.

Contact the State Specifications Office for assistance in completing this form.  
Rudy Powell 850-414-4280 [rudy.powell@dot.state.fl.us](mailto:rudy.powell@dot.state.fl.us)  
Frances Thomas 850-414-4101 [frances.thomas@dot.state.fl.us](mailto:frances.thomas@dot.state.fl.us)  
Debbie Toole 850-414-4114 [deborah.toole@dot.state.fl.us](mailto:deborah.toole@dot.state.fl.us)  
Andy Harper 850-414-4127 [clifton.harper@dot.state.fl.us](mailto:clifton.harper@dot.state.fl.us)



## *Florida Department of Transportation*

**RICK SCOTT**  
GOVERNOR

605 Suwannee Street  
Tallahassee, FL 32399-0450

**ANANTH PRASAD, P.E.**  
SECRETARY

### **M E M O R A N D U M**

**DATE:** June 5, 2012  
**TO:** Specification Review Distribution List  
**FROM:** Trey Tillander, State Specifications Engineer  
**SUBJECT:** Proposed Specification: **7810302 ITS – Motorist Information Systems.**

In accordance with Specification Development Procedures, we are sending you a copy of a proposed specification change.

This change was proposed by Gene Glotzbach to incorporate current standard warranty language for consistency with other specifications and to clarify that lifting eyebolts must be galvanized or stainless.

Please share this proposal with others within your responsibility. Review comments are due within four weeks and should be sent to Mail Station 75 or to my attention via e-mail at SP965TT or [trey.tillander@dot.state.fl.us](mailto:trey.tillander@dot.state.fl.us). Comments received after **July 3, 2012**, may not be considered. Your input is encouraged.

TT/cah  
Attachment

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