ORIGINATION FORM
Proposed Revisions to the Specifications
(Please provide all information - incomplete forms will be returned)

Date: 7/11/23
Office: Traffic Engineering and Operations
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Article/Subarticle: 620-2.7.1,620-2.7.4
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Associated Section(s) Revisions:

Will the proposed revision require changes to the following Publications:

Publication	Yes	No	Office Staff Contacted	Date
Standard Plans Index	○	◉	Rick Jenkins/Joshua Turley	7/11/23
Traffic Engineering Manual	○	◉	Mariano Amicarelli	7/11/23
FDOT Design Manual	○	◉	DeWayne Carver	7/11/23
Construction Project Administration Manual	○	◉	Patrick Overton	7/11/23
Basis of Estimate/Pay Items	○	◉	Ryan Gray	7/11/23
Structures Design Guidelines	○	◉	Ben Goldsberry	7/11/23
Approved Product List	○	◉	Karen Byram	7/11/23
Materials Manual	○	◉	Susan Musselman/Brad Pearson	7/11/23
Maintenance Specs	○	◉	Deanna Hutchison	7/11/23

Will this revision necessitate any of the following:

Design Bulletin ☐ **Construction (DCE Memo)** ☐ **Estimates Bulletin** ☐ **Materials Bulletin** ☐

Have all references to internal and external publications in this Section been verified for accuracy? YES

Synopsis: Summarize the changes:

Reduced required duration of manufacturer's warranty and made minor edits to align with Specification Style Guide

Justification: Why does the existing language need to be changed?

Warranty duration adjusted based on TSMO Office discussions and directives. Minor grammatical edits should be implemented to align with FDOT Style Guide for specifications.

Do the changes affect either of the following types of specifications (Hover over type to go to site.):

Special Provisions ☐ **Developmental Specifications** ☐

List Specifications Affected: (ex. SP3270301, Dev330TL, Dev334TL etc.)

Contact the State Specifications Office for assistance completing this form.

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1. **Are changes in line with promoting and making meaningful progress on improving safety, enhancing mobility, inspiring innovation, and fostering talent; explain how?**

Changes improve consistency within similar FDOT requirements.

2. **What financial impact does the change have; project cost, pay item structure, or consultant fees?**

No impact.

3. **What impacts does the change have on production or construction schedules?**

No impact.

4. **How does this change improve efficiency or quality?**

Changes improve consistency within similar FDOT requirements and align with FDOT Style Guide (i.e., quality improvement).

5. **Which FDOT offices does the change impact?**

No significant impacts.

6. **What is the impact to districts with this change?**

No significant impacts.

7. **Does the change shift risk and to who?**

No significant impacts.

8. **Provide summary and resolution of any outstanding comments from the districts or industry.**

Comments and Responses are available on the Track the Status of Revisions hyperlink located on the Specifications landing page: https://www.fdot.gov/programmanagement/Specs.shtm

9. **What is the communication plan?**

Through the established specification revision process (e.g., Internal and Industry Review).

10. **What is the schedule for implementation?**

The Standard Specifications e-Book and Workbook are effective July 1st every year.

GROUNDING AND LIGHTNING PROTECTION.
(REV 7-11-23)

SUBARTICLE 620-2.7 is deleted and the following substituted:

620-2.7 Surge Protective Devices (SPDs):

Install SPDs on all power, data, video, and any other conductive circuit. SPD requirements for lighting must meet the minimum requirements of Section 992 and the Standard Plans. Use SPDs that meet the requirements of Section 996 and are listed on the Department's Approved Product List (APL).

Provide primary and secondary surge protection on AC power at traffic control device field sites.

620-2.7.1 SPD for 120 Volt or 120/240 Volt Power: Install a SPD at the utility disconnect to the cabinet.

Ensure an SPD is provided where the supply circuit enters the cabinet. Locate the SPD on the load side of the main disconnect, ~~and~~ ahead of ~~any and all~~ electronic devices, and connected in parallel with the AC supply.

620-2.7.2 SPD at Point of Use: Install an SPD at the point the ITS devices receive 120 volt power and connected in series with the circuits.

620-2.7.3 SPDs for Low-Voltage Power, Control, Data and Signal Systems: Install a specialized SPD on all conductive circuits including, but not limited to, data communication cables, coaxial video cables, and low-voltage power cables.

620-2.7.4 Manufacturer's Warranty: Ensure that the SPD has a manufacturer's warranty covering failures for a minimum of ~~10~~ 2 years from the date of final acceptance by the Engineer in accordance with 5-11 and Section 608.

The term "failure" for warranty replacement is defined as follows:

Parallel-connected, power-rated SPD units are considered in failure mode when any of the visual indicators shows failure mode when power is applied to the terminals at the unit's rated voltage, or the properly functioning over-current protective device will not reset after tripping.

Series-connected, low-voltage power, data, or signal units are considered in the failure mode when an open circuit condition is created and no data/signal will pass through the SPD device or a signal lead is permanently connected to ground.

~~In the event that~~If the SPD, including any component of the unit, should fail during the warranty period, the entire SPD ~~shall~~ must be replaced by the manufacturer at no cost to the Department or maintaining agency.