**Traffic Systems Design Directive**

169 Brick Store Landing Road, Smyrna, DE

<table>
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<tr>
<th>Requestor Name:</th>
<th>Mark Luszcz</th>
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<td>Date Submitted:</td>
<td>7/29/16</td>
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<td>Applicable Chapter / Section / Page / Figure in current manual:</td>
<td>Chapter 4.C.3</td>
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**Description of Current Practice:**

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**Recommended Change:** Consideration of placing electronic field equipment higher off the ground in areas that are currently flood prone, or may become more flood prone in the future. See attached for more details.

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**Date Received:** 07/29/2016  
**Received By:** ML

Based upon the conditions presented, it is recommended that this be approved as an updated Traffic Systems Design Practice and included as a revision to the Traffic Design Manual (if applicable).

**Recommended By:** (N/A)  
**Date:**

**Recommended By:** Design / Construction / Safety / Studies Manager  
**Date:** 11/7/16

**Approved By:** (Signature)  
**Date:** 11/7/16

**Status / Date Completed:**

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**Form Date:** 09/15/2014
Traffic Systems Design Direction 2016-1

The designer should review the DNREC Inundation Map and the DelDOT Map of Frequently Flooded Roadways to assist in determining if the traffic signal or ITS control cabinet is located in an area that frequently floods, or may reasonably be expected to flood more frequently in the future. Note that the map of frequently flooded roadways currently shows roadway segments that are often closed, but does not specifically show the area of flooding. If further information is needed on the specific areas of flooding, staff familiar with the area should be consulted and FEMA floodplain maps should be reviewed. If a control cabinet is planned for an area that currently floods on a regular basis, or may in the future flood more frequently, the designer should consider one or more of the following options:

- Relocate the cabinet to a location near the field equipment that is least likely to flood (e.g., if one corner of the intersection is at a higher elevation than another corner, consider using the higher elevation corner).
- Use a pole mounted cabinet.

To minimize the potential for electronic equipment damage due to flooding, as well as to provide additional space in the cabinet for maintenance purposes, a cabinet base extension/riser should be used at all locations where the scope of work requires a new cabinet, unless there is a specific reason (e.g., limited sight lines) why the cabinet base extension/riser should not be used.

References:

- DelDOT Map of Frequently Flooded Roadways: Available on DelDOT internal Gateway mapping system