



Traffic Systems Design Directive

169 Brick Store Landing Road, Smyrna, DE

Number (Year - #)
2016-1

Requestor Name: Mark Luszc

Date Submitted: 7/29/16

Applicable Chapter / Section / Page / Figure in current manual: Chapter 4.C.3

Requires modification to Traffic Design Manual?

Yes

No

Description of Current Practice: _____

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.

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
Requestor

Date: _____

Recommended By: [Signature]
Design / Construction / Safety / Studies Manager

Date: 11/7/16

Approved By: [Signature]
(Signature)

Date: 11/7/16

Status / Date Completed: _____

Traffic Systems Design Direction 2016-1

The designer should review the *DNREC Inundation Map* and the *DeIDOT 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:

- DNREC Inundation Map: <http://firstmap.gis.delaware.gov/inundation/>
- DeIDOT Map of Frequently Flooded Roadways: Available on DeIDOT internal Gateway mapping system