

Section 23 - VDOT 2011 Work Area Protection Manual (WAPM) Requirements

- A. Introduction - HRSD's Design and Construction Divisions contract with a wide variety and a significant number of Professional Services firms (FIRMs) for design and construction oversight responsibilities for both capital and non-capital projects. Typically, the FIRM providing the design services will also assemble a team to perform construction administration and inspection (CA/CI) services for HRSD during the construction period. Many of these projects lie within state and locality road rights of way. One of HRSD's top priorities during construction activities is the safety of all staff and HRSD's field representatives. As such, it is crucial that our staff and our contracted work force adhere to the latest federal, state, and locality safety standards.

The 2011 edition of the *Virginia Work Area Protection Manual* along with updates became effective for HRSD on July 1, 2012. Several localities have already adopted this manual and have been requiring compliance with it. The 2011 *Virginia Work Area Protection Manual* and a presentation highlighting changes from the previous Work Area Protection Manual can be found at the following web link: <http://www.virginiadot.org/business/trafficeng-WZS.asp>

This Section establishes expectations and requirements for being in compliance with the 2011 *Virginia Work Area Protection Manual* for all FIRMs providing CA/CI services on behalf of HRSD.

- B. Training Requirements for Construction Inspectors - All construction inspection personnel representing HRSD on any construction projects within rights of way exposed to traffic, work vehicles, and construction equipment within traffic control zones must take an approved course and become certified in Intermediate Work Zone Safety Training. HRSD will require a copy of each inspector's certification in order to represent HRSD on a construction project.
- C. Personal Protective Equipment (PPE) Requirements – The following pages detail specifics on PPE and other safety equipment.

High Visibility Vests & Flagger Station Lighting

Due to recent changes to the 2011 Virginia Work Area Protection Manual, beginning July 1, 2012, ANSI/ISEA 107-2004 Class 2 High Visibility Traffic Vests will no longer be used in Temporary Traffic Control work areas.



ANSI/ISEA 107-2004 Class 2

Instead, **all workers** (ex. flaggers, work crew, engineers, etc) within the right of way exposed to traffic, work vehicles and construction equipment within in the Temporary Traffic Control Zone must wear an ANSI/ISEA 107-2010 Class 3 High Visibility Traffic Vest. Also, the workers hard hats are required to have a minimum of 10 square inch of retro-reflectivity.



ANSI/ISEA 107-2010 Class 3



4"x1" retro-reflectivity strips on all four sides

Workers that are installing, maintaining and/or removing Temporary Traffic Control Devices as well as performing flagging operations must also wear a Class “E” Trouser along with their Class 3 vest, when:

- Working during emergency situations
- Working in low light conditions
- Working during inclement weather (ex. fog, sleet, snow, etc)
- Working during night time operations (30 minutes before sunset until 30 minutes after sunrise)



Lastly, flagger stations must be illuminated at night. The light source can not be satisfied by street lights or vehicle headlights but by a light source that produces a minimum of 50 lux or 5 foot-candles for the entire area (not just in one spot). The light source needs to be higher than the flagger station and points down on the flagger. Also, the lighting source must not interfere with the flagger or motorist’s line of sight.



End of Section