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#### CHAPTER 5G. TEMPORARY TRAFFIC CONTROL ZONES

# **Section 5G.01 Introduction**

Guidance:

The safety of road users, including pedestrians and bicyclists, as well as personnel in work zones, should be an integral and high priority element of every project in the planning, design, maintenance, and construction phases. Part 6 should be reviewed for additional criteria, specific details, and more complex temporary traffic control zone requirements. The following principles should be applied to temporary traffic control zones:

- A. Traffic movement should be disrupted as little as possible.
- B. Road users should be guided in a clear and positive manner while approaching and within construction, maintenance, and utility work areas.
- C. Routine inspection and maintenance of traffic control elements should be performed both day and night.
- D. Both the contracting agency and the contractor should assign at least one person on each project to have day-to-day responsibility for assuring that the traffic control elements are operating effectively and any needed operational changes are brought to the attention of their supervisors.

Traffic control in temporary traffic control zones should be designed on the assumption that road users will only reduce their speeds if they clearly perceive a need to do so, and then only in small increments of speed. Temporary traffic control zones should not present a surprise to the road user. Frequent and/or abrupt changes in geometrics and other features should be avoided. Transitions should be well delineated and long enough to accommodate driving conditions at the speeds vehicles are realistically expected to travel.

A temporary traffic control plan (see Section 6C.01) should be used for a temporary traffic control zone on a low-volume road to specify particular traffic control devices and features, or to reference typical drawings such as those contained in Part 6.

### Support:

Applications of speed reduction countermeasures and enforcement can be effective in reducing traffic speeds in temporary traffic control zones.

Typical applications for a variety of work zone situations commonly encountered are illustrated in the Maryland Book of Standards, Section 100. The Work Zone Traffic Control Typicals can be obtained from the Maryland State Highway Administration's Office of Traffic & Safety, Traffic Development & Support Division (TDSD) at the address shown on Page i. The Work Zone Traffic Control Typicals can be located at: http://www.roads.maryland.gov/Index.aspx?PageId=689.

# Section 5G.02 Applications

Guidance:

Planned work phasing and sequencing should be the basis for the use of traffic control devices for temporary traffic control zones. Part 6 should be consulted for specific traffic control requirements and examples where construction or maintenance work is planned.

Support:

Maintenance activities might not require extensive temporary traffic control if the traffic volumes and speeds are low.

Option:

The traffic applications shown in Figures 6H-1, 6H-10, 6H-11, 6H-13, 6H-15, 6H-16, and 6H-18 of Part 6 are among those that may be used on low-volume roads.

Support:

Table 6H-3 provides distances for the advance placement of the traffic control devices shown in the typical applications.

Option:

For low-volume roadways with speeds of 30 miles per hour or less, a minimum distance of 100 feet may be used for the advance placement distance and the distance between signs shown in the typical applications.

For temporary traffic control zones on low-volume roads that require flaggers, a single flagger may be adequate if the flagger is visible to approaching traffic from all appropriate directions.

# **Section 5G.03 Channelization Devices**

### Standard:

Channelization devices for nighttime use shall have the same retroreflective requirements as specified for higher-volume roadways.

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### Option:

To alert, guide, and direct road users through temporary traffic control zones on low-volume roads, tapers may be used to move a road user out of the traffic lane and around the work space using the spacing of devices that is described in Section 6F.63.

# Section 5G.04 Markings

Guidance:

Pavement markings should be considered for temporary traffic control zones on paved low-volume roads, especially roads that had existing pavement markings or that have a surfaced detour or temporary roadway.

Option:

Interim pavement markings may be omitted in a temporary traffic control zone if they are not needed based on the criteria for these markings in Section 6F.78.

# **Section 5G.05 Other Traffic Control Devices**

#### Standard:

Other traffic control devices, such as other signs, signals, and illumination that are used on low-volume roads in temporary traffic control zones, but are not described in Part 5, shall comply with the provisions contained in other Parts of this Manual.

Support:

Some of the signs that might be applicable in a temporary traffic control zone on a low-volume road are shown in Figure 5G-1.

BE ROAD PREPARED **LOOSE ROUGH** NO MAY **GRAVEI** TO STOP **PASSING** ROAD **FLOOD** 500 ZONE FEET W8-18 W3-4 W8-7 W13-1P W14-3 W16-2P W8-8 ROAD **ROAD** ONE LANE WORK **CLOSED** ROAD XXX FT XXX FT XXX FT W20-4(1) W20-7 W20-1(1) W21-1 W20-3(1) UTILITY SURVEY **ROAD** SHOULDER WORK **FRESH** MACHINERY **CREW** WORK XXX FT OIL **AHEAD** W21-3 \* W21-2 W21-5(1) W21-6 W21-7(1)

Figure 5G-1. Temporary Traffic Control Signs and Plaques on Low-Volume Roads

\* Sign shall not be used along State owned, operated and maintained roadways.



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