

- 5.10 PVMS should be used if there is significant change in traffic patterns, unexpected road conditions, or safety concerns that may result in delays/queues and may require caution/diversion.
- 5.11 PVMS should not be used in place of an arrow panel. The PVMS should be visible from 0.5 mile under day and night conditions and should be legible from a minimum distance of 650 feet.
- 5.12 PVMS should be placed on the shoulder of the roadway or, if practical, farther from the traveled lane (Standard MD 104.01-22).
- 5.13 In order to reduce the effect of sun behind the PVMS, the PVMS should be placed so that the sun is not directly behind it (such as during sunrise or sunset).
- 5.14 The entire message should be readable at least twice at the off-peak 85th-percentile speed prior to work starting or the anticipated prevailing speed.

6.0 ARROW PANELS

- 6.1 Arrow panels that are installed along roadways with prevailing speeds greater than 40 mph shall be provided with a minimum shoulder closure taper of 1/3 the taper length, (see 7.0 Channelizing Devices). For all other roadways a 100-foot minimum shoulder closure taper shall be used.

7.0 CHANNELIZING DEVICES

- 7.1 Taper Formulas:

$L = WS$ for speeds greater than ($>$) 40 mph

$L = WS^2/60$ for speeds equal to or less than ($<$) 40 mph

Where: L = minimum length of taper (ft)

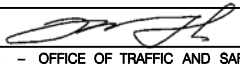
S = numerical value of prevailing travel speed or speed limit (MPH), whichever is higher, prior to work starting,

W = width of offset (ft)

- 7.2 Maximum spacing between channelizing devices:

Taper Channelization: equal in feet to the posted speed limit.

Tangent Channelization: equal in feet to twice the posted speed limit.

SPECIFICATION		CATEGORY CODE ITEMS		Maryland Department of Transportation STATE HIGHWAY ADMINISTRATION STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES	
APPROVED		 DIRECTOR - OFFICE OF TRAFFIC AND SAFETY			
		APPROVAL • SHA REVISIONS APPROVAL 7-1-09 REVISION REVISION REVISION	APPROVAL • FEDERAL HIGHWAY ADMINISTRATION APPROVAL 7-27-09 REVISION REVISION REVISION		
				GENERAL NOTES	
				STANDARD NO. MD 104.00-09	