

**TEMPORARY TRAFFIC CONTROL TYPICAL APPLICATION
 TEMPORARY TRAFFIC CONTROL DEVICE SELECTION CHART
 PROTECTION VEHICLE (PV) UTILIZATION MATRIX**

LOCATION OF WORK	POSTED SPEED LIMIT **	ROADWAY TYPE	DURATION				
			MOBILE OPERATIONS		SHORT DURATION ACTIVITY	SHORT-TERM STATIONARY	LONG-TERM STATIONARY
			MOVING SLOW *	MOVING NORMAL	< 15 MIN/ LOCATION	15 MIN-12 HRS AND DAYTIME	> 12 HRS OR NIGHT TIME
ON ROAD	≥ 55 MPH	TWO LANE, TWO-WAY	RQ		RQ	RQ	RQ
		MULTILANE UNDIVIDED	RQ		RQ	RQ	RQ
		MULTILANE DIVIDED UNCONTROLLED	RQ		RQ	RQ	RQ
		MULTILANE DIVIDED CONTROLLED (FREEWAY/EXPRESSWAY)	RQ		RQ	RQ	RQ
	< 55 MPH	TWO LANE, TWO-WAY					
		MULTILANE UNDIVIDED					
		MULTILANE DIVIDED UNCONTROLLED					
		MULTILANE DIVIDED CONTROLLED (FREEWAY/EXPRESSWAY)	RQ		RQ	RQ	RQ
ADJACENT TO ROAD ***	≥ 55 MPH	TWO LANE, TWO-WAY				RQ	RQ
		MULTILANE UNDIVIDED				RQ	RQ
		MULTILANE DIVIDED UNCONTROLLED				RQ	RQ
		MULTILANE DIVIDED CONTROLLED (FREEWAY/EXPRESSWAY)	RQ			RQ	RQ
	< 55 MPH	TWO LANE, TWO-WAY					
		MULTILANE UNDIVIDED					
		MULTILANE DIVIDED UNCONTROLLED					
		MULTILANE DIVIDED CONTROLLED (FREEWAY/EXPRESSWAY)	RQ			RQ	RQ

KEY: RQ - REQUIRED


* MOVING SLOW MEANS TRAVELING BELOW THE POSTED SPEED BY MORE THAN 15 MPH.

** FOR OFF-RAMPS USE THE POSTED SPEED LIMIT OF THE MAINLINE IN THE VICINITY OF THE RAMP. FOR ON-RAMPS USE THE POSTED SPEED LIMIT OF THE MAINLINE IN THE VICINITY OF THE MERGE POINT. FOR RAMP CONNECTING TWO ROADWAYS, USE THE LARGER POSTED SPEED LIMIT OF THE TWO MAINLINES.

*** ADJACENT TO THE ROAD MEANS WITHIN 15 FEET OF THE EDGE OF TRAVEL LANE OR WITHIN 2 FEET FROM THE FACE OF CURB.

NOTES

1. WHEN CLOSING OR OPENING A LANE OR SHOULDER ON ROADWAY WITH POSTED SPEED LIMIT OF 55 MPH OR GREATER, ENSURE THAT THE WORK VEHICLE USED FOR CLOSING OR OPENING THE LANE/SHOULDER IS CLOSELY FOLLOWED BY A PROTECTION VEHICLE (PV) DURING THE INSTALLATION AND REMOVAL OF TEMPORARY TRAFFIC CONTROL DEVICES.
2. IF PERSONNEL AND/OR EQUIPMENT ARE EXPECTED TO BE WITHIN 15 FEET FROM THE EDGE OF TRAVEL OR WITHIN 2 FEET FROM FACE OF CURB FOR A PERIOD LONGER THAN 15 MINUTES AT A SINGLE LOCATION (THIS INCLUDES ACTIVITIES SUCH AS MOWING AND LITTER COLLECTION), FOLLOW THE RECOMMENDATION LISTED UNDER WORK ADJACENT TO ROAD. A PV IS NOT REQUIRED IF PERSONNEL AND EQUIPMENT ARE POSITIONED BEHIND POSITIVE PROTECTION FOR THE ENTIRE WORK DURATION.
3. IF A PV IS REQUIRED BUT THE SHOULDER IS NOT WIDE ENOUGH TO ACCOMMODATE A PV AND PROVIDE A MINIMUM OF 2 FEET BETWEEN THE PV AND THE EDGE OF TRAVEL LANE, CONTACT THE ENGINEER TO DISCUSS OPTIONS FOR SAFELY CONDUCTING THE WORK.
4. IF THE PROTECTION VEHICLE MATRIX DOES NOT INDICATE THAT PV USE IS REQUIRED AND THERE IS A SAFETY CONCERN, CONTACT THE ENGINEER TO DISCUSS OPTIONS FOR SAFELY CONDUCTING THE WORK.

SPECIFICATION 104	CATEGORY CODE ITEMS	 MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES TEMPORARY TRAFFIC CONTROL DEVICE SELECTION CHART
APPROVED	<i>Cedric Wall</i> DIRECTOR - OFFICE OF TRAFFIC AND SAFETY	
APPROVAL SHA REVISIONS	APPROVAL FEDERAL HIGHWAY ADMINISTRATION	
APPROVAL 2-19-24	APPROVAL 11-16-23	
REVISED	REVISED	
REVISED	REVISED	
		STANDARD NO. MD 104.01-11A