

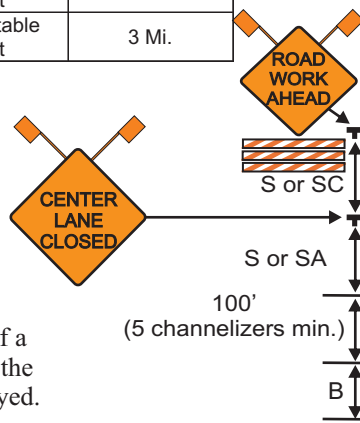
616.8.30a (TA-30a) Operations in Two-Way Left Turn Lane on Multi-Lane Undivided Highways - MT

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL BUFFER LENGTH (ft.) (B)	CHANNELIZER SPACING (ft.)	
	Undivided (S)	Divided (S)	Shoulder ¹ (T1)	Lane ² (T2)		Tapers	Buffer/ Work Areas
0-35	200	-	-	-	250	-	50
40-45	350	-	-	-	360	-	100
50-55	500	-	-	-	495	-	100
60-70	SA – 1 000, SB – 1500 and SC - 2640		-	-	730	-	100
1 Shoulder taper length based on 10 ft. (standard shoulder width) offset 2 Lane taper length based on 12 ft. (standard lane width) offset							

ROADWAY TYPE	SIGN HEIGHT	MAXIMUM WORK ZONE LENGTH (L)
URBAN	1' Portable 7' Post	1 Mi.
RURAL UNDIVIDED	1' Portable 5' Post	3 Mi.

Channelizer	Truck Mounted Attenuator (TMA)
Sign	Protective Vehicle
Truck or Trailer Mounted Arrow Panel	Work Space

A protective vehicle **shall** be used in each direction while work is in progress. Each protective vehicle **should** be equipped with a TMA and flashing arrow panel and positioned at least 150 ft. in advance of the work space. If a flashing arrow panel is used, the caution mode **shall** be displayed.



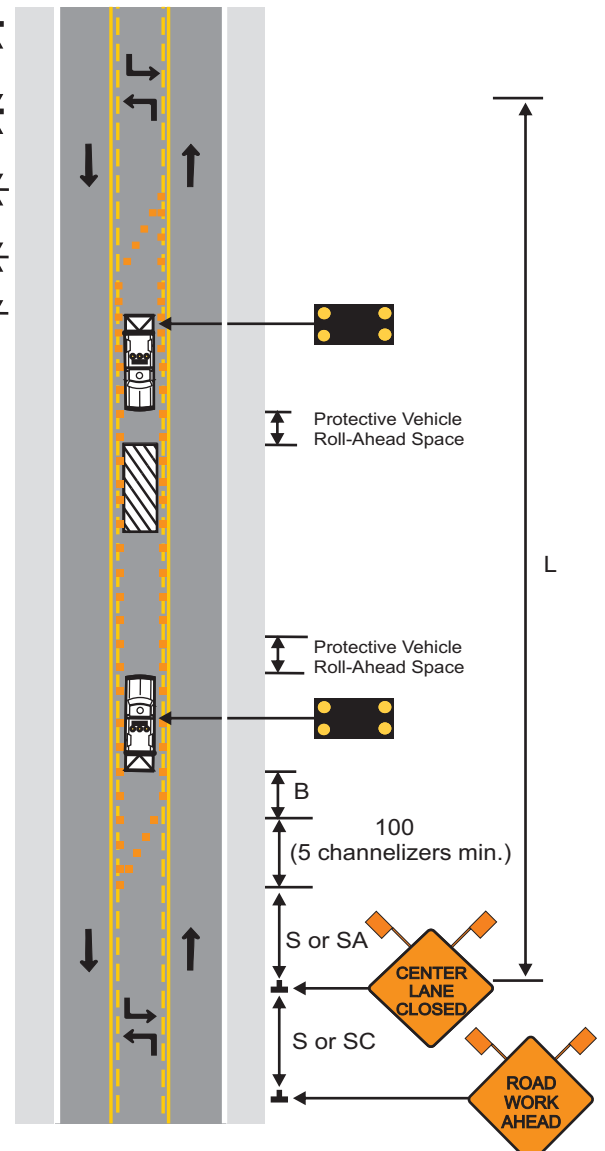
Channelizer spacing **may** be reduced to discourage turning traffic from entering into activity area.

For short duration and mobile operations, signs and channelizers **may** be reduced or eliminated. One protective vehicle **may** be eliminated if the roadway is posted at 45 mph or below, the work space is located between the remaining protective vehicle and a work vehicle, and both vehicles use activated rotating lights or strobe lights.

For mobile operations where workers are on foot and move with the operation, channelizers **may** be reduced or eliminated. One protective vehicle **may** be eliminated if the roadway is posted at 45 mph or below, the work space is located between the remaining protective vehicle and a work vehicle, and both vehicles use activated lights or strobe lights.

Additional warning signs **shall** be erected at each intersection with another state highway within the work zone. Upon the discretion of the supervisor, additional warning signs **may** be erected at other intersections within the work zone.

For long-term operations, refer to EPG 616.6.2.2 Flags and Advance Warning Rail System.



(Advanced Warning Rail System)
For Long Term Operations