





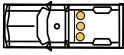


616.8.30a (TA-30a) Operations in Two-Way Left Turn Lane on Multi-Lane Undivided Highways - MT

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
	Undivided (S)	Divided (S)	Shoulder (1) (T1)	Lane (2) (T2)	BUFFER LENGTH (ft.) (B)	Tapers	Buffer/ Work Areas
0-35	200	-	70	245	280	35	40
40-45	350	-	150	540	400	40	80
50-55	500	-	185	660	560	50	80
60-70	1000	-	235	840	840	60	120

1 Shoulder taper length based on 10 ft. (standard shoulder width) offset. 2. Lane taper length based on 12 ft. (standard lane width) offset.

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

 (Advanced Warning Rail System)
For Long Term Operations

-  Channelizer
-  Sign
-  Truck or Trailer Mounted Arrow Panel
-  Protective Vehicle
-  Truck Mounted Attenuator (TMA)
-  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.

If rumble strips are used, review EPG 616.6.87 RUMBLE STRIPS.

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

SEE EPG 616.12 WORK ZONE SPEED LIMITS FOR SPEED LIMIT GUIDELINES.

