

### 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.

- Channelizer
- Sign
- Truck or Trailer Mounted Arrow Panel

- Protective Vehicle
- Truck Mounted Attenuator (TMA)
- Work Space

(Advanced Warning Rail System)  
For Long Term Operations

A protective vehicle shall be used while work is in progress.

The protective vehicle should be equipped with a TMA and shall have a flashing arrow panel and positioned at least 150 feet in advance of the work space, if possible.

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. The work vehicle may be used as the protective vehicle if all the following conditions are met:

- The roadway is posted at 45 mph or below,
- The work vehicle is positioned at least 150 feet in advance of the work space,
- The work vehicle has a flashing arrow panel, and
- The work vehicle uses activated rotating lights or strobe lights.

For operations where workers are on foot and move with the operation, channelizers may be reduced or eliminated. The work vehicle may be used as the protective vehicle if all the following conditions are met:

- The roadway is posted at 45 mph or below,
- The work vehicle is positioned at least 150 feet in advance of the work space,
- The work vehicle has a flashing arrow panel, and
- The work vehicle uses activated rotating 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.

