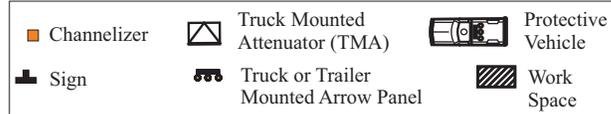


### 616.23.3.11 (TA-11) Lane Closure on Multi-Lane Undivided Highways

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL BUFFER LENGTH (ft.) (B)	CHANNELIZER SPACING (ft.)	
	Undivided (S)	Divided (S)	Shoulder <sup>1</sup> (T1)	Lane <sup>2</sup> (T2)		Tapers	Buffer/ Work Areas
0-35	200	-	-	245	120	35	50
40-45	350	-	-	540	220	40	100
50-55	500	-	-	660	335	50	100
60-70	1000	-	-	840	550	60	100

<sup>1</sup> Shoulder taper length based on 10 ft. (standard shoulder width) offset      <sup>2</sup> 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.



A protective vehicle **shall** be used while work is in progress. The protective vehicle **should** be equipped with a TMA and flashing arrow panel and positioned at least 150 ft. in advance of the work space. The protective vehicle **may** be eliminated if the roadway is posted at 45 mph or below, the work vehicle is positioned in advance of the work space, and the work vehicle uses activated rotating lights or strobe lights.

The closure of the adjacent interior lane in the opposing direction **may** not be necessary, depending upon the activity being performed and the work space needed for the operation.

If physical barriers exist (i.e. guardrail, guard cable, concrete barrier or raised median) between opposing directions of traffic, refer to **616.23.3.12 (TA-12) Lane Closure on Left or Right Lane on Divided Highways..**

For short duration operations, signs and channelizers **may** be reduced or eliminated.

For mobile operations where workers are on foot and move with the operation, channelizers **may** be reduced or eliminated.

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 **616.23.3.9 (TA-9) Lane Closure on Two-Lane Highways Using Traffic Control Signals** and **616.23.2.5.1.4 Flags and Advance Warning Rail System.**

