

MUTCD WORK ZONE CLIPBOARD

Speed (mph)	L	1/2 L	1/3 L	2L	Buffer Space
	(for W = 12)				
< 25	125	63	42	250	155
30	180	90	60	360	200
35	245	123	82	490	250
40	320	160	107	640	305
45	540	270	180	1080	360
50	600	300	200	1200	425
55	660	330	220	1320	495
60	720	360	240	1440	570
65	780	390	260	1560	645
70	840	420	280	1680	730
75	900	450	300	1800	820

Type of Taper	Min. Length
Merging	L
Shifting	1/2 L
Shoulder	1/3 L
Downstream	50-100
1-lane, 2-way (Flagging)	50-100 Max.
Transition: merging followed by merging	2 L
Transition: merging followed by shifting	1/2 L

Type of Work	Arrow Board Mode
Closure	
Shoulder	
Night	The above 50% dimmed

Road Type	Sign Spacing
Urban (LO)	100
Urban (HI)	350
Rural	500
Freeways	MUTCD

Speed (mph)	Min. Devices on Taper
< 25	6
30	7
35	8
40	9
> 45	13

Work zone crash documentation checklist
Measure sight distance to point of impact
Measure location and visibility of all warning signs
Note the posted speed and other regulatory signs
Document shielding of drop-offs and hazards
Document all devices (channelizing, arrow boards, etc.)
Document workers present
Take photographs/video to supplement documentation

Flagging Procedures	USE STOP/SLOW PADDLE
TO STOP TRAFFIC	
TO RELEASE TRAFFIC	
TO SLOW/ALERT TRAFFIC	

Device	Notes
	Use when attended; 28 in.; 2 white retro bands at night
	LO Speed; Stripes slope down to traffic side
	HI Speed; Stripes slope down to traffic side
	Road Closures: Stripes slope down to traffic side
	No ballast on top; Orange stripe on top; 18 in. diameter
	URBAN: 7 ft. high RURAL: 5 ft. high PORTABLE: 1 ft. min.

Speed (mph)	Barrier Flare Rate*
70	20:1
60	18:1
55	16:1
50	14:1

Speed (mph)	Barrier Flare Rate*
55	16:1
45	12:1
30	8:1
* Per 2011 RDG	

Warning Lights	
Type A	LO intensity flashing
Type B	HI intensity flashing
TYPE C	Steady-burn
FLASHING	For warning
STEADY-BURN	For delineation

NOTES:
 - Based on MUTCD.
 - Local standards may vary.
 - All distances in feet.

Speed (mph)	Clear Zone*
>60	30
45-55	20
40	15
30-40	14
* Per 2011 RDG	

