

Temporary Traffic Control Standards Update

Why?

- Came into this position soon after TC details became TTC standards about 1.5 years ago (2/13/2013)
- As new standards are implemented and more people used them questions arise and start noticing things that need changing.
- Use this meeting as call for comments (any changes you wish/ TTC not addressing common concerns)
- I am not Jody.

What Is This ?



TTC -00 (A) – Flashing Arrow Board

TTC-09, 10, 14 - Flashing Arrow Panel

TTC-11, & 13 – Flashing Arrow Panel, Type “C”

Revised – Flashing Arrow Board, Type “C”

“Arrow Boards shall only be used to indicate a lane closure. Arrow boards shall not be used to indicate a lane shift.” – MUTCD page 603

FLAGGERS – TTC 00 (B)

Existing

- A Qualified Flagger is one that has completed courses such as those offered by ATSSA, AGC, or other courses approved by the LADOTD Work Zone Task Force. The contractor shall be responsible for getting the flagger course approved

Proposed

- A Qualified Flagger is one that has completed courses such as those offered by ATSSA, or other courses approved by the LADOTD Work Zone Task Force. The contractor shall be responsible for getting the flagger course approved

Standard Device Spacing and Buffer Space

SPEED LIMIT (prior to construction)	SHOULDER TAPER LENGTH (1/3ML)				STANDARD DEVICE SPACING IN FEET		BUFFER SPACE FT
	Lane Width (FT)				Along Road	Along Shoulder	
MPH	9	10	11	12	Along Road	Along Shoulder	FT
25	32	35	39	42	20	40	155
30	45	50	55	60	40	80	200
35	62	69	75	82	40	80	250
40	80	89	98	107	40	80	305
45	135	150	165	180	40	80	360
50	150	167	184	200	40	80	425
55	165	184	202	220	40	80	495
60	180	200	220	240	40	80	570
65	195	217	239	260	40	80	645
70	210	234	257	280	40	80	730

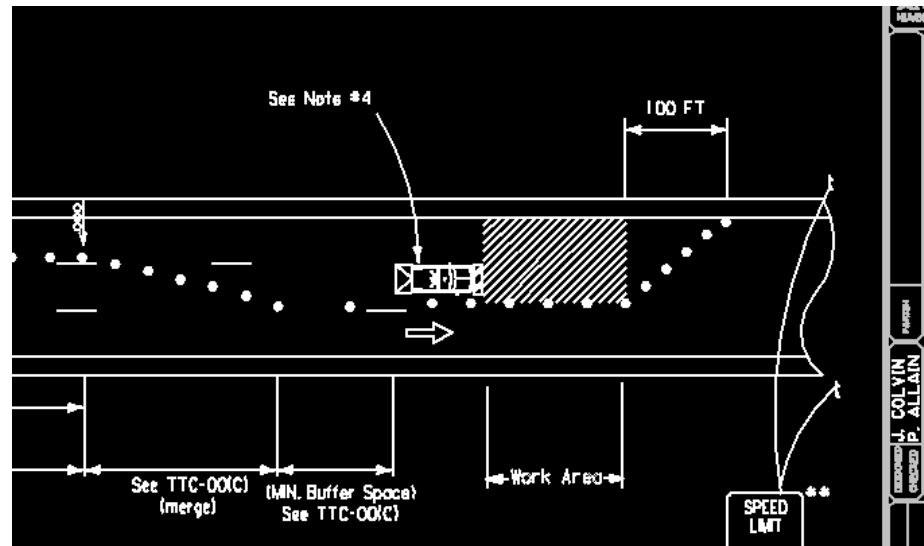
All Termination and flagger tapers are 100 ft per lane

SPEED LIMIT (prior to construction)	SHOULDER TAPER LENGTH (1/3ML)						STANDARD DEVICE SPACING IN FEET		BUFFER SPACE FT
	Shoulder Width (FT)						Along Road	Along Shoulder	
MPH	2	4	6	8	10	12	Along Road	Along Shoulder	FT
25	7	14	21	28	35	42	20	40	155
30	10	20	30	40	50	60	40	80	200
35	14	28	41	55	68	82	40	80	250
40	18	36	54	72	89	107	40	80	305
45	30	60	90	120	150	180	40	80	360
50	34	67	100	134	167	200	40	80	425
55	37	74	110	147	184	220	40	80	495
60	40	80	120	160	200	240	40	80	570
65	44	87	130	174	217	260	40	80	645
70	47	94	140	187	234	280	40	80	730
75	47	100	150	300	250	300	40	80	815

All Termination and flagger tapers are 100 ft

Termination Tapers

TTC -13

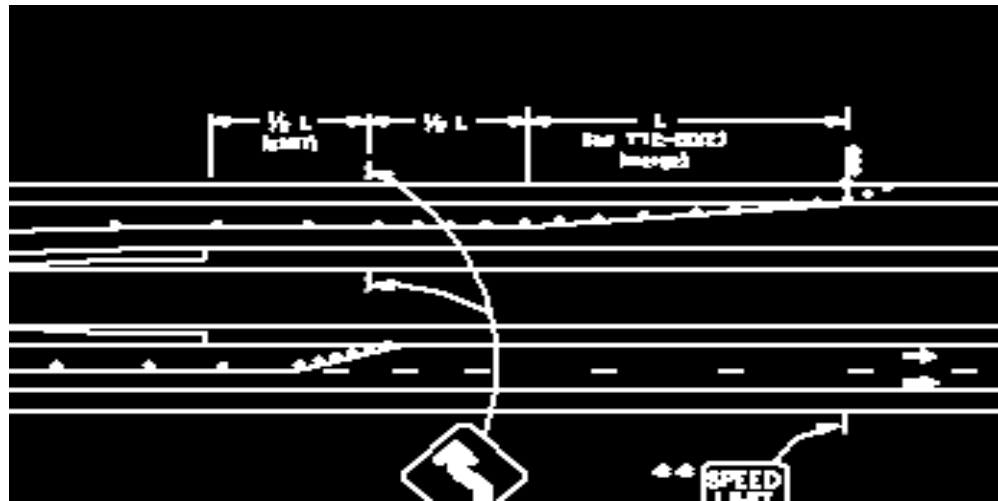


Existing - TTC-00 (A) – All **termination tapers are 100 per lane**

Proposed – TTC-00 (A) – All Termination Tapers are 100 ft.

If used, a termination taper should have a minimum length of 50ft. And a maximum length of 100 feet with devices placed at a spacing of approximately 20 ft. – MUTCD page 557

Taper Inconsistency



$\frac{1}{2}$ L (shift) – TTC-07, TTC-08

See TTC-00(C) (shift) – TCT-11, TTC-14

All Tapers will be revised to say “See TTC-00(c) (Shift/Merge/shoulder)”

Road Work Next XX Miles



The “Road Work Next XX Miles” sign shall be required on all projects. The Distance on the “Road Work Next XX Miles” sign shall be stated to the nearest whole mile. - TTC-00(D)

What if Work Zone < ½ mile?



MUTCD Page 597

Guidance:

The Road Work Next XX miles sign should be installed in advance of TTC zones that are more than 2 miles in Length

The Road Work Next XX Miles sign may be mounted on a Type 3 Barricade. The sign may also be used for work zones of shorter length

Standard

The distance displayed on the Road Work Next XX Miles sign shall be stated to the nearest whole mile

Road Work Next XX Miles

Revise Foot note – The distance on the ‘Road Work Next XX Miles’ sign shall be stated to the nearest whole mile. This sign shall be placed at the Beginning of Project (B.O.P.) limits. This sign may be omitted if work zone is less than 0.5 miles.

Road Work Ahead

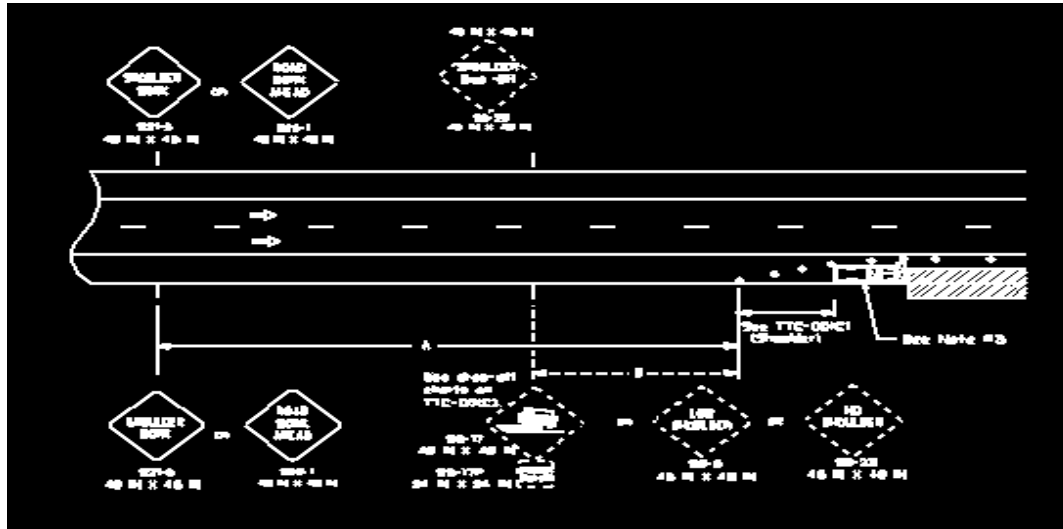


WZTF recommends note which was on the TC details be placed in TTC Standards

“Road Work Ahead Signs are not required if the street has no other access except through the work zone.”

MUTCD- Where Traffic can enter a TTC Zone from a crossroad or a major (high volume) driveway, an advance warning sign should be used on the crossroad or major driveway.

TTC-02 – Shoulder Work and Road Work



Why is Road Work Next XX Miles on Two-Way Roadway and not divided?

Do we need shoulder work sign and shoulder drop off on both sides of divided highway? Do we need to use these signs on both sides of the road or only on the side which is affected?

TTC-02 Shoulder Work and Road Work

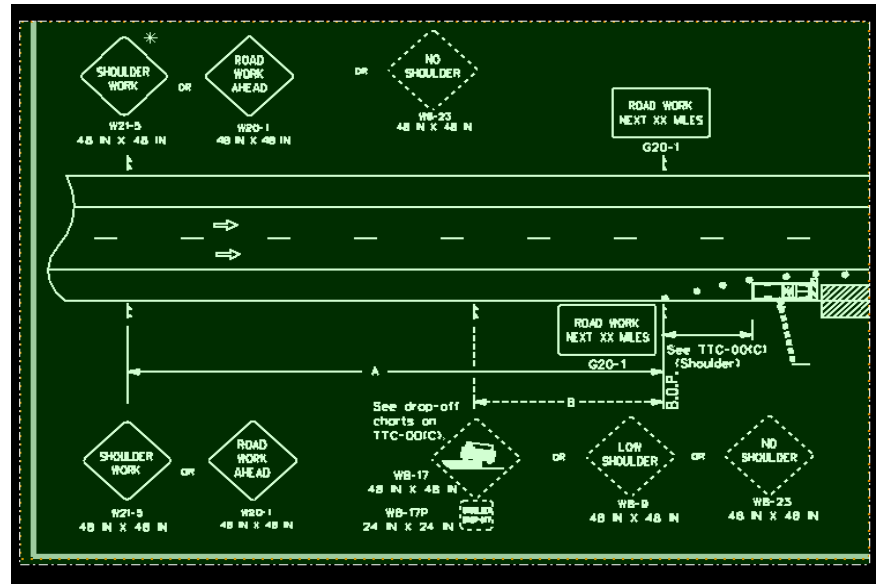
“Signs should be located on the right-hand side of the roadway unless otherwise provided in this manual”

“Where special emphasis is needed, signs may be placed on both the left-hand and right-hand sides of the roadway” – MUTCD Page 577

“ A shoulder work sign should be placed on the left side of the roadway for a divided or one-way street only if the left shoulder is affected” – MUTCD page 638

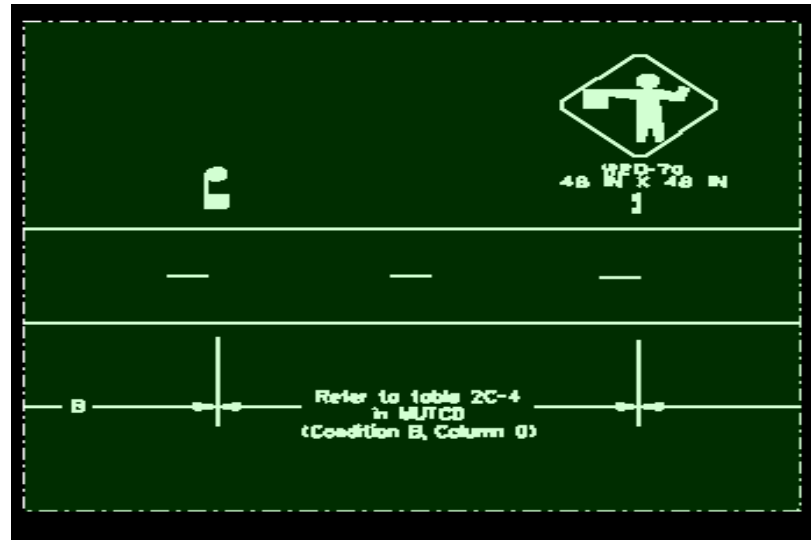
Page 643 shows road work ahead on both sides of a freeway

TTC-02 Shoulder Work and Road Work



* - To be placed on both sides of divided highway if shoulder work is being done on the left side or if interstate.

TTC-03 and TTC-04 - Flagger Spacing



Who has a MUTCD with them in the field?

TC Details Had 500 ft.

MUTCD Specifies

- Urban (low Speed) – 100 ft
- Urban (High Speed) – 350 ft
- Rural - 500 ft
- Interstate/Expressway – 1,000 ft

Speed Limit Intervals

TTC-00(A) and TTC-09 – Speed Limit sign intervals contradict each other

TTC-00(A) Speed Limit

If the speed limit reduces, speed limit signs shall be placed

A- Beyond Major Intersections;

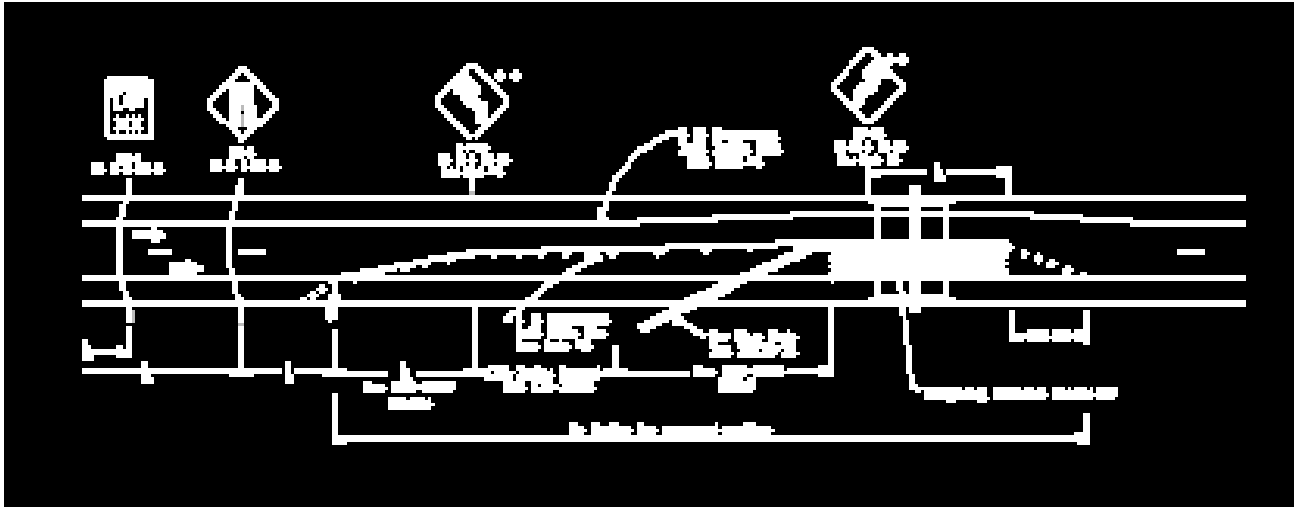
B – At one mile intervals in rural areas

C – At half mile intervals in urban areas

TTC-09 – Footnote “place at 1 mile intervals” under speed limit sign

Remove spacing reference on TTC-09 since it is already covered in TTC-00(A)

TTC-11

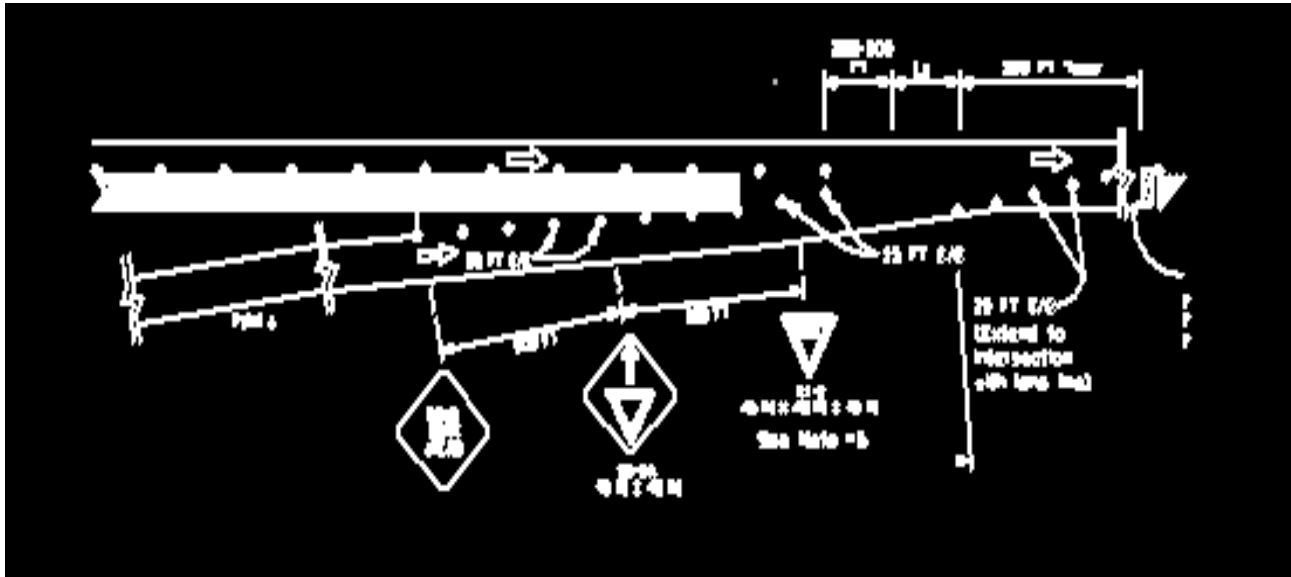


See TTC-00 (C) (Shift) should be moved to the side where the lane has been shifted towards the shoulder.

“The Barrier shall not be placed along the shifting taper. The lane taper shall first be shifted using channelization devices and pavement markings.” – MUTCD Page 704

“D” dimension is not defined

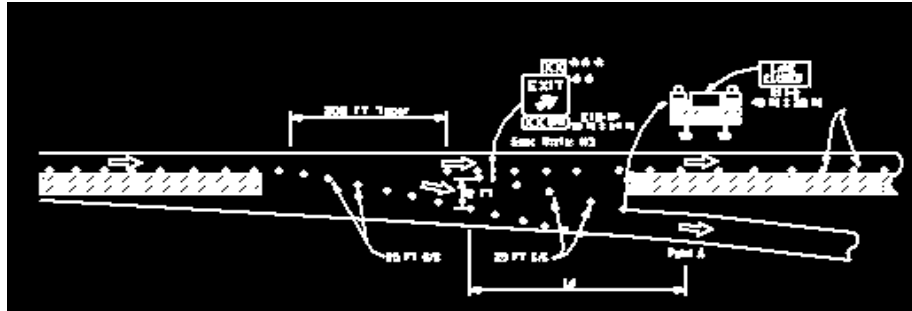
TTC – 12 Lane Closures Through Ramp Terminals



Lg is dimensioned incorrectly

Lg = 300-500 ft

TTC -12 Lane Closures for Entrance/Exit ramps

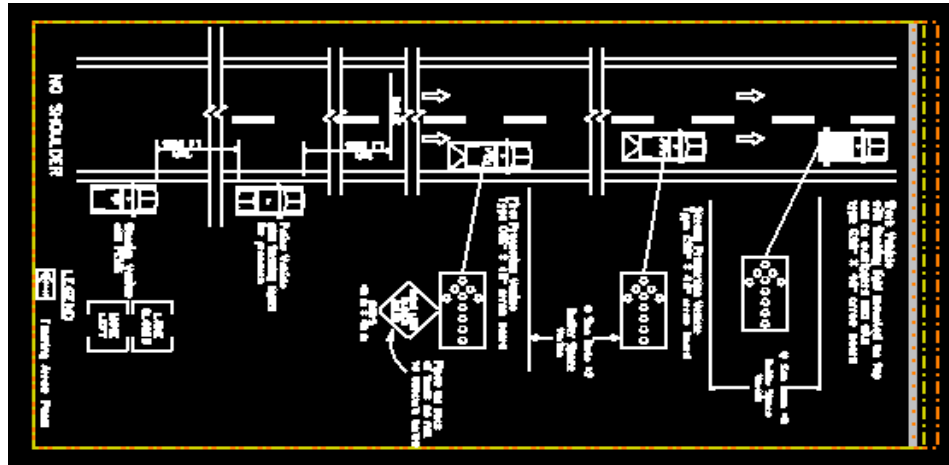


The "Exit Ramp" sign is too big for any stand to hold

MUTCD Page 716-717 showed the exit sign without exit # or exit Speed

Exit # and Speed will be removed

TTC -17 Moving Operations for Interstate or Multilane



Add footnote – If there is no safe area to park work zone vehicles off of the travel way, the order of the work zone vehicles can be adjusted. The First Protection Vehicle With impact attenuator shall be the first vehicle in the travel lane exposed to traffic.

TTC-17 - Detour

