### TAPER, BUFFER ZONE & SIGN SPACING CHART

ROAD	POSTED SPEED	MINIMUM TAPER LENGTH(L)	LENGTH OF BUFFER(BZ)	MINIMUM SIGN SPACING (SS)			ONE LANE TWO-WAY FLAGGING	
TYPE	MPH (S)	12 FT LANE CLOSURE	DESIREABLE	Α	В	С	D	TAPER LENGTH
	(-)	FT	FT	FT	FT	FT	FT	FT
	30 AND LOWER	180	200	100	100	100	100	
	35	245	250	350	350	350	175	50
	40	320	305					
CONVENTIONAL	45	540	360					
	50	600	425					
	55	660	495	500	500	500	250	100
	60	720	570					
	65	780	645					
FREEWAY/ EXPRESSWAY	65	780	645	1000	1640	2640	500	
	70	840	730					
	75	900	820					
	80	960	910					

### 1- TAPER LENGTH FORMULAS

SPEED	FORMULA		
FOR SPEEDS OF 40 MPH AND LESS	$L = \frac{WS^2}{60}$		
FOR SPEEDS OF 45 MPH AND GREATER	L= WS		

L = TAPER LENGTH IN FEET W = WIDTH OF OFFSET IN FEET S = SPEED IN MPH

 $\frac{1}{3}$  L = FOR SHOULDER CLOSURE TAPER

½ L = FOR LANE SHIFT TAPER

#### 2- CHANNELIZING DEVICES

- A) MERGING AND SHIFTING TAPERS: USE A MINIMUM OF 1 DEVICE PER FT OF LANE CLOSURE WIDTH, PLUS 1 ADDITIONAL DEVICE TO START.
- B) SHOULDER, ONE-LANE TWO-WAY, AND DOWNSTREAM TAPERS: USE A MINIMUM OF 1 DEVICE PER 3 FT OF WIDTH (OR PORTION THEREOF), PLUS 1 ADDITONAL DEVICE TO START.
- C) ON TANGENT: S x 2 = SPACING UP TO 120 FT MAXIMUM.
- D) LENGTH OF BUFFER ZONE (BZ) IS THE DISTANCE FROM END OF LANE CLOSURE TAPER TO WORK SPACE, OR ANY OBSTRUCTION PRIOR TO WORK SPACE.

FINE NOTIFICATION SIGNING OPTION IS USED.

## TRAFFIC CONTROL DEVICE LEGEND

SIGN (FIXED OR PORTABLE)

CHANNELIZING DEVICE

(SEE STD DWG TC 2A) DRUMS OR DIRECTIONAL INDICATOR BARRICADE

FLAGGING STATION

ARROW BOARD

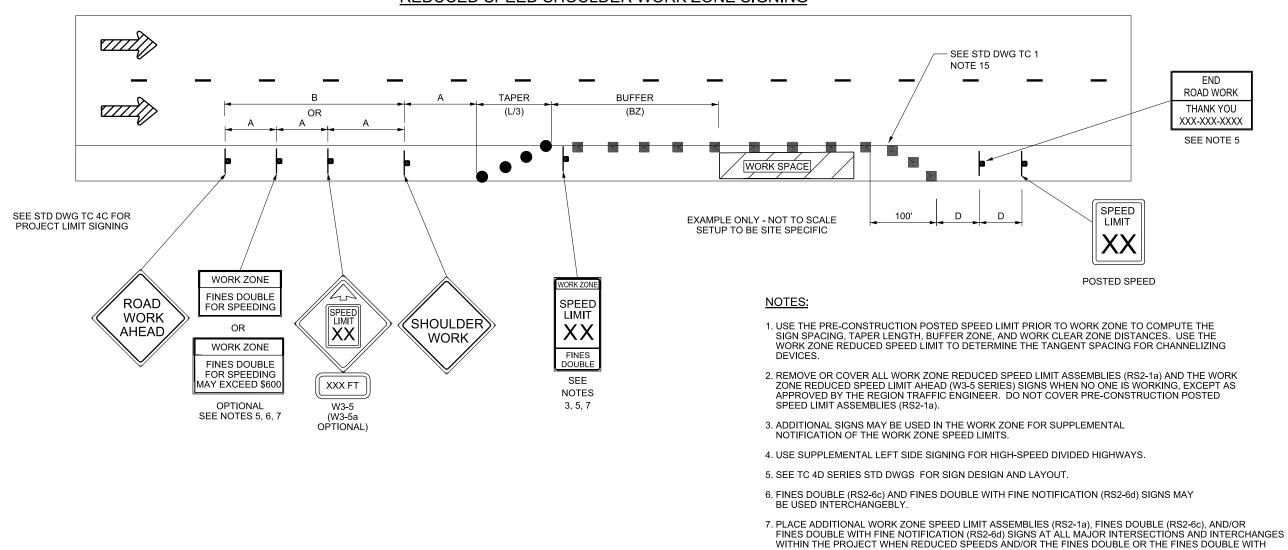
BARRIER DIRECTION OF TRAFFIC

⇒ TYPE III BARRICADE

DIRECTION OF WORK VEHICLE

SUPPLEMENTAL DRAWING

# REDUCED SPEED SHOULDER WORK ZONE SIGNING



STD. DWG. NO. TC 4B2

TRANSPORTATION
AND BRIDGE CONSTRUCTION

PF

**UTAH DEPARTMENT** 

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SPEED SHOULD K ZONE SIGNING GENERAL

DUCED

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