	-	_	
			1
TA	DL		

2				RITERIA VICE SP			er Gr
MINIMUM TAPER LENGTH * FOR WIDTH OF OFFSET 12 FEET (W)		MAXIMUM CHANNELIZING DEVICE SPACING					
SPEED	PORWI	FOR WIDTH OF OFFSET 12 FEET (W)		x	Y	Z **	
	TANGENT 2L	MERGING	SHIFTING	SHOULDER	TAPER	TANGENT	CONFLICT
mph	ft	ft	ft	ft	ft	ft	ft
20	160	80	40	27	20	40	10
25	250	125	63	42	25	50	12
30	360	180	90	60	30	60	15
35	490	245	123	82	35	70	17
40	640	320	160	107	40	80	20
45	1080	540	270	180	45	90	22
50	1200	600	300	200	50	100	25
55	1320	660	330	220	55	110	27
60	1440	720	360	240	60	120	30
65	1560	780	390	260	65	130	32
70	1680	840	420	280	70	140	35

\* - For other offsets, use the following merging taper length formula for L: For speed of 40 mph or less,  $L = WS^2/60$ For speed of 45 mph or more, L = WS

Where: L = Toper length in feet

- C

W = Width of offset in feet

S = Posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

\*\* - Use for taper and tangent sections where there are no pavement markings or where there is a conflict between existing pavement markings and channelizers (CA).

TABI	E	7
IAD		5

£	DISTANC		N SIGNS *
ROAD TYPE	A	В	C
	ft	ft	ft
URBAN - 25 mph OR LESS	100	100	100
URBAN - MORE THAN 25 mph TO 40 mph	250	250	250
URBAN - MORE THAN 40 mph	350	350	350
RURAL	500	500	500
EXPRESSWAY	1000	1500	2640

\* - The distances are approximate, are intended for guidance purposes only, and should be applied with engineering judgment. These distances should be adjusted by the Engineer for field conditions, if necessary, by increasing or decreasing the recommended distances.

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Т	Δ	В	Ľ	F	2
	~	~	_	-	_

LO	GITUDINA FLAGGER					
			DOWNGRADE Min D			
SPEED *	SPEED * Min D **	- 3%	-6%	-9%		
mph	ft	ft	ft	f†		
20	115	116	120	126		
25	155	158	165	173		
30	200	205	215	227		
35	250	257	271	287		
40	305	315	333	354		
45	360	378	400	427		
50	425	446	474	507		
55	495	520	553	593		
60	570	598	638	686		
65	645	682	728	785		
70	730	771	825	891		

\* - Speed is posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

\*\* - Longitudinal buffer space or flagger station spacing

\*\*\* - Use on sustained downgrade steeper than -3 percent and longer than 1 mile.





## SHOULDER CLOSURE

### NOTES:

- 1. Each advance warning sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- Lane closures shall not begin at top of crest vertical curve or on a horizontal curve.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves).
- Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.

# SIGN PANEL SIZE (Min)

### A 36" × 36"

### LEGEND

- 0
- 0
- 米

### NOTES:

See Standard Plan 1150 for tables.

Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

All temporary warning signs shall have black legend on fluorescent orange background.

California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

> TRAFFIC CONE TRAFFIC CONE (OPTIONAL TAPER) TEMPORARY TRAFFIC CONTROL SIGN PORTABLE FLASHING BEACON







SHT. 1 OF 1







	36" ×	36"
B	30" ×	30"
C	36" ×	18"
D	36" ×	42"
E	20" x	7"





I, or II for closures lasting I for closures lasting longer than 19(CA) "ROAD CLOSED AHEAD" and C30(CA) n orange overlay plates with the d, as directed by the Engineer,	COLUMN COLUMN
<ul> <li>as an elected by the lighter, to the closed road. The letter the same as the guide sign.</li> <li>LOSED AHEAD" sign shall be equipped daytime closure. Each flag shall and shall be orange or fluorescenting beacon shall be placed on top of o hours of darkness.</li> <li>ures during the hours of darkness flective bands (or sleeves) as ins.</li> <li>at one-half the spacing indicated ed instead of cones for daytime</li> <li>assigned to provide full time ol devices, unless otherwise</li> <li>e placed transversely across each</li> </ul>	COUNTY OF ORANGE, OC PUBLIC WORKS DEPARTMENT Approved : Appendix Bazmi, County Engineder
SIGN PANEL SIZE (Min) A 36" × 36" B 48" × 30" C 36" × 36"	TRAFFIC CONTROL SYSTEM FOR SECONDARY ARTERIAL T-INTERSECTIONS REV. APRIL 2016
ent, Y for tangent segment or Z for e, per Table 1, unless X, Y, or Z cone ave black legend on fluorescent	std. plan 1156
(CA). Otherwise, Federol (MUTCD) codes	SHT. 1 OF 1

