

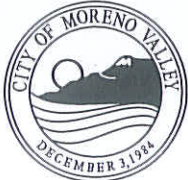


$Y = 2.25W \left(\frac{X}{L}\right)^2$  (FOR A-B1 AND C1-D1 CURVES)  
 L = LENGTH OF TAPER  
 W = MAXIMUM OFFSET DISTANCE FROM BASELINE  
 X = DISTANCE ALONG BASELINE FROM ORIGIN  
 Y = OFFSET FROM BASELINE

L	DISTANCE X												
	60'	5'	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'
72'	6'	12'	18'	24'	30'	36'	42'	48'	54'	60'	66'	72'	
90'	7.5'	15'	22.5'	30'	37.5'	45'	52.5'	60'	67.5'	75'	82.5'	90'	
120'	10'	20'	30'	40'	50'	60'	70'	80'	90'	100'	110'	120'	
180'	15'	30'	45'	60'	75'	90'	105'	120'	135'	150'	165'	180'	
W	OFFSET Y												
	10'	0.16'	0.62'	1.41'	2.50'	3.75'	5.00'	6.25'	7.50'	8.59'	9.38'	9.84'	10.00'
	11'	0.17'	0.69'	1.55'	2.75'	4.13'	5.50'	6.88'	8.25'	9.45'	10.31'	10.83'	11.00'
	12'	0.19'	0.75'	1.69'	3.00'	4.50'	6.00'	7.50'	9.00'	10.31'	11.25'	11.81'	12.00'
	22'	0.34'	1.38'	3.09'	5.50'	8.25'	11.00'	13.75'	16.50'	18.91'	20.63'	21.66'	22.00'
	24'	0.38'	1.50'	3.38'	6.00'	9.00'	12.00'	15.00'	18.00'	20.63'	22.50'	23.63'	24.00'

**NOTES:**

1.) TO DETERMINE OFFSET DISTANCE FOR ANY LENGTH OF TAPER USE THE FORMULA  $Y=2.25W(X/L)^2$  FOR THE PORTIONS A-B1 AND C1-D1 WHICH ARE PARABOLIC CURVES. THE PORTION B1-C1 IS A TANGENT. WHEN THE BASE LINE IS CURVED, THE OFFSETS ARE APPLIED TO THE CURVED BASE LINE, AND B1-C1 IS NO LONGER A TANGENT.

NOT TO SCALE

	RECOMMENDED:  DIVISION MANAGER DATE: 1/21/14	<b>CITY OF MORENO VALLEY</b> PUBLIC WORKS DEPARTMENT - CAPITAL PROJECTS DIVISION  <b>MEDIAN TAPER</b>	STANDARD PLAN <b>MVSI-143-0</b>
	APPROVED:  PUBLIC WORKS DIRECTOR / DATE: 1/29/14 CITY ENGINEER		SHEET 1 OF 1