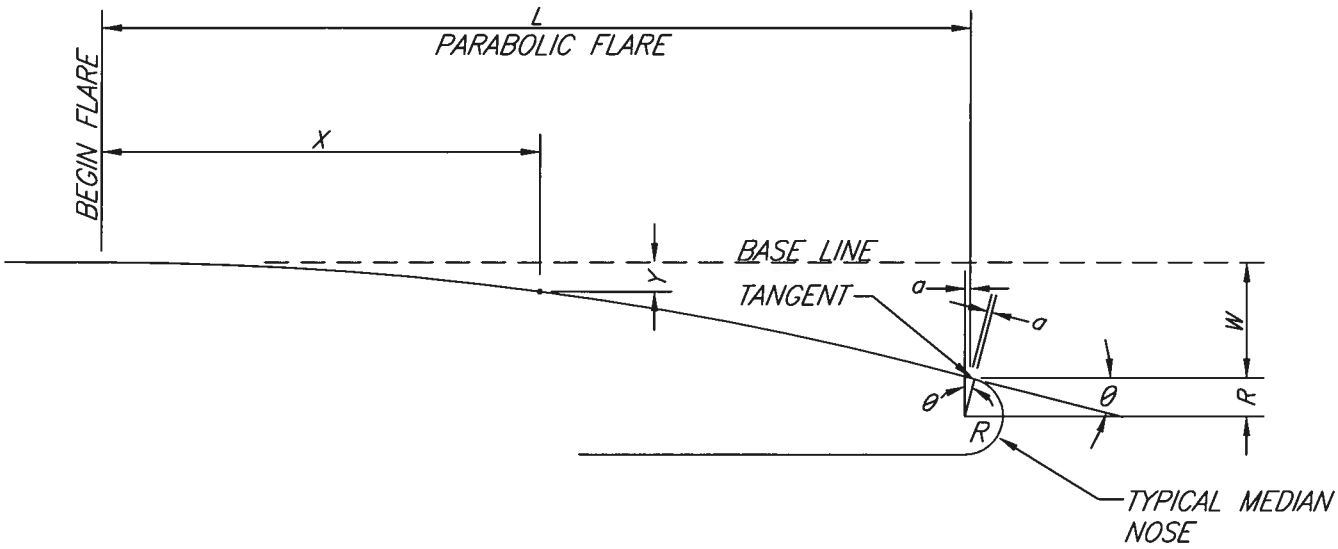

		OFFSET (Y) AT DISTANCES (X) ALONG BASE LINE (FT).														
W	L \ X	10	20	25	30	40	45	50	60	70	75	80	90	100	θ	TAN 1/2 θ
5	25	0.80	3.20	5.00											21°48'05"	.1926
10	50	0.40	1.60		3.60	6.40		10.00								
5	50	0.20	0.80		1.80	3.20		5.00							11°18'36"	.0990
10	100	0.10	0.40		0.90	1.60		2.50	3.60	4.90		6.40	8.10	10.00		
3	45	0.15	0.59		1.33	2.37	3.00								7°35'41"	.0664
5	75	0.09	0.36		0.80	1.42		2.22	3.20	4.36	5.00					
6	90	0.07	0.30		0.67	1.19		1.85	2.67	3.63		4.74	6.00			

NOTE:

1. Show W, L, and "begin flare" station plan.

DESIGN DATA

$$\tan\theta = \frac{2W}{L}$$

$$a = R \tan\frac{1}{2}\theta$$

$$Y = W\left(\frac{X}{L}\right)^2$$

APPROVED BY

CITY ENGINEER

5/18/11

DATE

MARK	REVISIONS	APPR.	DATE

CITY OF RIVERSIDE

PUBLIC WORKS DEPARTMENT

PARABOLIC FLARE

STANDARD DRAWING NO. 123

Sheet 1 of 1