

**CURB BULBS & OTHER SIDEWALK WIDENING
LAYOUT OF TRANSITION**

SIDEWALK WIDENING	LENGTH	A	B	C
4'	15'-0"	10'-0"	5'-0"	2'-8"
5'	16'-7"	11'-1"	5'-6"	3'-4"
6'	18'-0"	12'-0"	6'-0"	4'-0"
7'	19'-3"	12'-10"	6'-5"	4'-8"
8'	20'-5"	13'-7"	6'-10"	5'-4"

FORMULA FOR WIDENING DIMENSIONS:

X = ACTUAL SIDEWALK WIDENING IN FEET

$$\alpha = \text{ARCCOS} \left(\frac{30 - X}{30} \right)$$

$$L = 30 * \text{SIN } \alpha$$

$$A = 20 * \text{SIN } \alpha$$

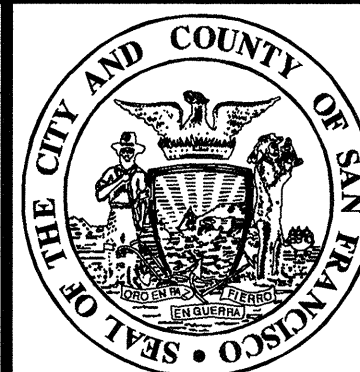
$$B = 10 * \text{SIN } \alpha$$

$$C = 20 - \left(\frac{A}{\text{TAN } \alpha} \right)$$

This Standard Plan was developed for use on public works projects in the City and County of San Francisco, and shall not be used without consulting a Registered Professional Engineer. The Department of Public Works reserves the right to make revisions to this Standard Plan at any time.

NO.	DATE	DESCRIPTION	BY	APP.
TABLE OF REVISIONS				
CHECK WITH TRACING TO SEE IF YOU HAVE LATEST REVISION				

REFERENCE INFORMATION & FILE NO. OF SURVEYS



BUREAU OF ENGINEERING
DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO

REVIEWED:	DATE:
PR	10/01/06
DRAWN:	DATE:
GY	10/01/06
CHECKED:	DATE:
EK	11/01/06

PLANS APPROVAL DATE:	APRIL 30, 2007
<i>Pablo D. ...</i>	4/27/07
SECTION MANAGER	
<i>M...</i>	4/30/07
DEPUTY BUREAU MANAGER	
<i>Jan ...</i>	
BUREAU MANAGER	

STANDARD PLAN	
STREETS AND HIGHWAYS	
CURB BULB & SIDEWALK WIDENING LAYOUT	

OLD FILE NO.	NONE
FILE NO.	87,175
REV. NO.	

Xrefs: V:\0966J Standard Plans & Specs Update\2_Plans\Title_Block\BDE STD Title Block.dwg
 Dimension Scale: 2
 Model Units: Feet
 Drawing Path: V:\0966J Standard Plans & Specs Update\2_Plans\FINAL\SH\17.dwg, Login: carantos
 Plot Time: Fri, 27 Apr 2007 - 10:33am