$\triangle 2_S$

E.C.   B.C.

P_S

W_S W_S 2

W_S 2 W_S

CROWN LINE

D

G

F

P_L

12'   1.0%

1.5%

B $\triangle 3$ 2.0%

1.5%

$\triangle 4$ $\triangle 4$ $\triangle 4$ $\triangle 4$ $\triangle 1$

C   E.C.

A

1.0%

$\triangle 2_L$

E

B.C.

CURVE DATA

- **A** — $R = 25'$ (MIN.)
  $\triangle 1 = $ VARIABLE
- **B** — $R = 25' + P_L$ (MIN.)
  $\triangle 1 = $ VARIABLE
- **C** — $R = 25' + W_L/2$
  $\triangle 1 = $ VARIABLE
- **D** — $R = 100'$ (CURB)
  $R = 100' - P_S$ (P_L)
- **E** — $R = 100'$ (CURB)
  $R = 100' - P_L$ (P_L)
- **F** — $R = W_L + 10' - P_L$
  $\triangle 3 = \triangle 1 + \triangle 2_S + \triangle 2_L$
- **G** — $R = W_L + 10'$
  $\triangle 3 = \triangle 1 + \triangle 2_S + \triangle 2_L$

$\mathcal{C}$

P_L P_L

$\dfrac{W_L}{2}$ $\dfrac{W_L}{2}$

W_L

P_L P_L

NOTES:

1. USE NORMAL SECTION FROM INNER CURB TO CENTER LINE.
2. FROM CROWN LINE TO OUTSIDE GUTTER, MAXIMUM = 3%, MINIMUM = 1%
3. SUBSCRIPTS "S" AND "L" DENOTE SMALLER AND LARGER STREETS RESPECTIVELY.
4. SUPERELEVATION PERCENTAGES SHOWN ARE STRAIGHT GRADE FROM CENTERLINE TO CROWN LINE.
5. ELEVATIONS ARE REQUIRED WHERE CIRCLED o.
6. WHEN STREETS HAVE TILT-TYPE SECTION, THE CROWN LINE WILL NOT NECESSARILY TERMINATE ON CENTERLINE AT BC OR EC OF CURB.

REV. 01/2003

CITY OF NEWPORT BEACH
PUBLIC WORKS DEPARTMENT

STANDARD KNUCKLE

APPROVED:

DIRECTOR OF PUBLIC WORKS
R.C.E. NO. 36106

DATE   11/15/2002

SCALE   N.T.S.

DRAWN   M. GRACIA

STD-1O4-L