



**GENERAL NOTES:**

1. Top step shall be no more than 24" from the top of the structure.
2. Bottom step shall be no more than 30" above the invert.
3. Step spacing shall be 16" on center.
4. Steps may be cast in place or epoxied in 1 1/4" diameter drilled holes.
5. Steps for sewer and storm drain manholes and other structures shall be polypropylene with a 1/2" diameter 80,000 psi tensile strength steel core per ASTM A-82 and ASTM C-478 paragraph 11.
6. Epoxy shall conform to State of California specification 8048-21M-08 and be used in strict accord with the manufacturer's printed instructions.
7. Plastic material shall be copolymer polypropylene ASTM type II grade 43758.

**CITY OF NEWPORT BEACH  
PUBLIC WORKS DEPARTMENT**

**STEPS FOR MANHOLES  
AND STRUCTURES**

**APPROVED:**

**PUBLIC WORKS DIRECTOR**

RCE NO. 36106

Drawn: M. Elias

Scale: N.T.S.

Date: Jan. 2004

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**DRAWING NO.**

**STD-404-L**