

S-107

STANDARD SPECIFICATIONS FOR MATERIALS AND INSTALLATION OF STREET NAME AND BLOCK NUMBER SIGNS IN THE CITY OF SANTA MARIA, CA

SECTION 1. GENERAL REQUIREMENTS

The work herein provided for is to be done in accordance with the plans and the general and special provisions on file in the Engineering Office of the Department of Public Works of the City of Santa Maria, and with these specifications, which are intended to cover all items necessary for the complete furnishing and installing of street name and block number signs, together with all necessary miscellaneous appurtenances thereto. No plans may be used unless signed by the City Engineer. All proposed equipment schedules and material lists must be submitted in quadruplicate and approved prior to manufacture and installation. Standard Specifications refer to the Standard Specifications of Caltrans, State of California, as last revised.

SECTION 2. MATERIAL REQUIREMENTS

A. SIGNS

All signs shall be guaranteed for not less than ten (10) years against corrosion or fading, caused by the effects of weather. Defective signs will be replaced by the manufacturer upon demand by the City of Santa Maria.

STREET NAME SIGNS AND BLOCK NUMBER SIGNS shall be manufactured in accordance with the requirements of the "Porcelain Enamel Institute, Specification for Porcelain Enameled Signs, Exterior".

The signs shall be fabricated in accordance with the City of Santa Maria's Standard Drawing for Street Name and Block Number Sign as shown and dimensioned.

The street name sign and the block number sign shall be fabricated from not less than 16 U.S. Steel gauge enameling iron of one (1) piece.

The signs shall be coated on both faces and all edges (care shall be taken to prevent damage to edges, etc., prior to installation) with a ground coat of porcelain enamel fused to the metal at a temperature above red heat and over this shall be applied such succeeding coats as may be necessary, so fused as to produce in the finished sign, a single, integral coat of porcelain enamel, with a green background, and white letters and numerals, on both faces with a directional arrow pointing to block for which the block number has been assigned. Colors shall be approved by the City.

The letters and numerals shall be the vertical type, capital style, in conformance with the standard alphabet, Series "C" modified Highway signs as approved by the American Association of State and Highway Officials and the Standard Specifications. All letters shall be reflectorized with permanent high-reflection porcelain beads or 3M Scotchlite VIP Diamond Grade reflective sheeting.

The size of the street name letters and the size of the block number digits shall be as shown on the above referenced standard drawing and shall be equal to Western Highway Products, Inc., porcelain name sign No. P9-C, Double Face, with the background green and the letters and numerals white.

When and where applicable, the "Purple Heart" designation shall be installed in the location shown on above standard drawing.

B. MOUNTING BRACKETS

Mounting brackets shall be fabricated from not less than 3/4" x 3/8" x 1/8" steel channel iron, welded to a 12 gauge steel channel for pole attachment, all hot dip galvanized after fabrication and welding, and in accordance with the dimensions and sizes as shown on the Standard Drawing for street signs.

The workmanship and finish shall be equal to the best general practice of modern day fabrication shops.

All bolts and nuts shall be galvanized; and two each five-eighth inch (5/8") stainless steel straps capable of clamping the bracket to pole shall be furnished and installed.

If a streetlight standard is not designated and approved by the City for street sign mounting, street signs shall be mounted on a two-inch (2") I.D. Schedule 40 galvanized pipe pole. These signs, both single top and two-way top, shall be attached to the pole through the use of street sign mounting assemblies similar to that manufactured for P9-C signs by Western Highway Products, Inc., as shown on Standard Drawing for street signs.

C. PIPE STAND WITH TOP CAP

Pipe and cap shall be two inches (2") I.D. standard galvanized iron pipe, length as shown the Standard Drawing for street sign, and one end shall have a galvanized iron pipe cap. The other end shall be flattened so it cannot be turned in its concrete base.

D. FOUNDATION CONCRETE

The foundations shall be Portland Cement Concrete, Class C, 5 sack, 2500 p.s.i., conforming to the Standard Specifications for materials and the construction of concrete structures.

The maximum size concrete aggregate shall be one inch (1").

SECTION 3. CONSTRUCTION METHODS

A. SITE PREPARATION

Each sign location shown on the plans shall be prepared for construction by removing any trash, stones, debris and other obstructions that may be encountered in making said improvement. The contractor shall remove or trim trees and shrubs when required by the plans or where directed by the Engineer, so that the sign can readily be seen.

B. ERECTING SIGNS

Excavations for the sign standard shall be made where shown on the plans and as detailed on said above Standard Drawing. Concrete shall be placed neat and vibrated in the excavation without the use of a form. The pipe standard shall have six inches (6") of concrete under the pipe and shall be in a true vertical position in all directions. It shall be well braced to insure a secure setting while the concrete cures. The top of the foundation shall be crowned two inches (2") and troweled smooth. It shall be cured with an approved white pigmented curing compound.

The signs shall be installed on the brackets and attached to the pipe, or strapped solidly to the light pole at a ninety degree angle (90°) angle, and the signs shall be parallel to the street for which the sign was made.

Pipe threads, bolt threads and any other iron surface, which is not galvanized or enameled, shall be painted with an approved rustproof paint.

SECTION 4. STANDARD SPECIFICATION(S) AND DRAWING(S) AVAILABILITY

They can be obtained at the Engineering Division office at 110 S. Pine Street, Suite 221 (mail: Suite 101), Santa Maria, CA 93458-5082 or web site: www.ci.santa-maria.ca.us.