

SECTION 02580 - TRAFFIC STRIPING AND SIGNING

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SECTION 02580 - TRAFFIC STRIPING AND SIGNING

PART 1 - GENERAL

1.01 WORK INCLUDED

A. Traffic Striping Markers (Traffic Lines)

1. Longitudinal centerlines and lane lines which separate traffic lanes in the same or opposing direction of travel, and longitudinal edgelines which mark the edge of the traveled way.
2. Fire hydrant markers.

B. Pavement Markings

1. Transverse markings that include, but are not limited to, word and symbol markings, limit lines (stop lines), crosswalk, shoulder markings, and parking stall markings. At the designation of the Engineer, longitudinal centerlines, lane lines and edge lines may be included.
2. Existing pavement marking damaged during construction shall be restored to equal or better condition as approved.

C. Temporary Pavement Delineation

1. Temporary pavement delineation shall be furnished, placed, maintained and removed in accordance with the provisions in Section 12-3.01, "*General*", of the *State Specifications* and these specifications. Nothing in these specifications shall be construed as to reduce the minimum standards specified in the *Manual of Traffic Controls* published by the Department of Transportation or as relieving the Contractor from his responsibility as provided in Section 7-1.09, "*Public Safety*," of the *State Specifications*.
2. Lane line or centerline pavement delineation shall be provided at all times for traveled ways open to public traffic. Whenever the work causes obliteration of pavement delineation, temporary pavement delineation or permanent traffic stripes shall be in place prior to opening the traveled way to public traffic.

1.02 RELATED REQUIREMENTS

Not Used

1.03 REFERENCE STANDARDS

- A. State Specifications
- B. State of California Department of Transportation Manual of Traffic Controls

1.04 QUALITY ASSURANCE

Not Used

1.05 MEASUREMENT AND PAYMENT

- A. Single and Double Traffic Striping Markers (Traffic Lines) will be paid for per Linear Foot, measured along the line of the traffic stripes, without deduction for gaps (regardless of the number, widths, and pattern or individual striping markers involved in each traffic stripe).
- B. Painted Stripes and Markings and Thermoplastic Pavement Marking will be paid for per Square Foot, measured from the actual area applied.
- C. Where specified, individual pavement markers will be paid for per each of the applicable type installed.
- D. Unless otherwise specified, no separate payment will be made for temporary markings. All costs therefor shall be borne by the contractor.
- E. If specified in the Special Provisions, payment for all work and materials specified under Section 02580 will be made on a lump sum basis.

PART 2 - PRODUCTS

2.01 PAVEMENT TRAFFIC STRIPING MARKERS

- A. Non-Reflective Markers shall conform to Section 85-1.04, "*Non-Reflective Pavement Markers*," of the *State Specifications*.
- B. Reflective Pavement Markers shall conform to Section 85-1.05, "*Reflective Pavement Markers*," of the *State Specifications*. Hydrant markers shall be blue in color.

2.02 PAVEMENT MARKINGS

- A. Thermoplastic material and glass beads shall be furnished by the contractor and shall conform to Section 84-2.02, "*Materials*," of the *State Specifications*.

2.03 PAINTED STRIPES AND PAVEMENT MARKINGS

- A. Provide “fast dry” paint in conformance with Section 84-3 of the State Specifications.

2.04 TEMPORARY REFLECTIVE PAVEMENT MARKERS

- A. The temporary reflective pavement markers shall be, at the option of the Contractor, one of the following or equal:
 1. Temporary Overlay Marker (Types Y and W) manufactured by Davidson Plastics Company, 18726 East Valley Highway, Kent, Washington 98032, Telephone (206) 251-8140.
 2. Safe-Hit Temporary Pavement Marker manufactured by Safe-Hit Corporation, 930 West Winton Avenue, Building #11, Hayward, CA 95545.
 3. Swareflex Pavement Marker (Models 3553, 3554, Cat Eyes Nos. 3002 and 3004), manufactured by Swareco and distributed by Servtech Plastics, Inc., 1711 South California Street, Monrovia, CA 91016, Telephone (818) 359-9248.
 4. Stimsonite Construction Zone Marker (Model 66) manufactured by Amerace Corporation, Signal Products Division, 7542 North Natchez Avenue, Nilus, IL 60648, Telephone (312) 647-7717.
 5. Flex-O-Lite Raised Construction Marker (RCM) manufactured by Flex-O-Lite, Lukens Company, P. O. Box 4366, St. Louis, MO 63123-0166, Telephone (800) 325-9525.
 6. 3M Scotch-Lane A200 Pavement Marking System (reflective raised pavement marker on reflective traffic line tape) manufactured by 3M Company, Traffic Control Materials Division, 223-3N 3M Center, St. Paul MN 55144.
 7. MV Plastics Chip Seal Marker (1280/1281 Series), manufactured by MV Plastics, Inc., 533 W. Collins Avenue, Orange CA 92667 Telephone (714) 532-1522.

PART 3 - EXECUTION

3.01 APPLICATION

- A. Single and Double Traffic Striping Markers (Traffic Lines) shall be placed in accordance with Section 85-1.06, "*Placement*," of the *State Specifications* and applicable *City Standard Drawings*.
- B. Thermoplastic Pavement Markings shall be placed in accordance with Section 84-2.04, "*Application*," of the *State Specifications*.

- C. Where specified, provide two coats of painted stripes or markings in accordance with Section 84-3 of the State Specifications.
- D. Temporary Pavement Delineation
1. Temporary pavement delineation for lane lines and centerlines shall consist of temporary reflective pavement markers placed at longitudinal intervals of not more than 24 feet apart. Temporary reflective pavement markers shall be the same color as the lane line or centerline the temporary pavement markers replace.
 2. Surfaces on which temporary pavement delineation is to be applied shall be cleaned of all dirt and loose material and shall be dry when the pavement delineation is applied.
 3. All work necessary to establish satisfactory lines for temporary pavement delineation shall be performed by the Contractor.
 4. Temporary pavement delineation that is damaged from any cause during the progress of the work shall be immediately repaired or replaced by the Contractor at his expense.
 5. Temporary reflective pavement markers shall be applied in accordance with the manufacturer's recommendations. Butyl adhesive pads shall be used to apply temporary reflective pavement markers to the top layer of permanent surfacing or existing surfacing.
 6. When temporary pavement delineation is applied to the top layer of permanent surfacing, planned permanent traffic striping (including edgelines) and pavement markings shall be applied within ten (10) calendar days after the lanes have been opened to public traffic.
 7. Temporary pavement delineation shall be maintained until replaced with the planned permanent pavement striping. When no longer required, temporary pavement delineation that conflicts with permanent pavement delineation, as determined by the Engineer, shall be removed and disposed of in accordance with the provisions in Section 7-1.13, "*Disposal of Material Outside the Highway Right-of-Way,*" of the *State Specifications*.
 8. Regardless of the number of times required, full compensation for furnishing, placing, maintaining, and replacing temporary pavement delineation (including the signing specified for "NO PASSING" zones), and for removal and disposal of the temporary reflective pavement markers will be considered as included in the contract price(s) paid for the final, "permanent" items of work.

End of Section