SECTION 32 17 23 01
TRAFFIC STRIPLING AND PAVEMENT MARKINGS

PART 1 GENERAL

1.1 RELATED WORK
A. Section 32 12 00: Flexible Paving
B. Section 32 16 00: Concrete Paving, Curbs, Headers and Ramps
C. Section 32 00 01: Site Restoration and Rehabilitation

1.2 REFERENCES
A. California Department of Transportation (Caltrans):
   2. Current Standard Specifications
      a. Section 84 – Traffic Stripes and Pavement Markings
      b. Section 85 – Pavement Markers
      c. Section 90 – Portland Cement Concrete
      d. Section 91 – Paint
      e. Section 95 – Epoxy
   3. Traffic Manual: Chapter 6
   4. California Manual on Uniform Traffic Control Devices (CA MUTCD)

1.3 PROJECT CONDITIONS
A. Contractor shall guarantee that all traffic lane pavement markers be in place and adhered to the pavement for a period of not less than 90 days from the date of acceptance of the work by the Owner.
B. Existing traffic signs shall remain in place until the new traffic signs have been erected.
C. All new traffic striping and pavement markings shall be thermoplastic, unless otherwise shown on the plans.
PART 2 PRODUCTS

2.1 TRAFFIC PAINT

Traffic paint and glass beads shall conform to the requirements of Section 84-3 of the Caltrans Standard Specifications.

2.2 THERMOPLASTIC MATERIAL

Thermoplastic material and glass beads shall conform to the requirements of Caltrans Standard Specifications Section 84-2.

2.3 GLASS BEADS

Glass beads to be applied to the surface of the paint and thermoplastic shall conform to the requirements of State Specification 8010-11E-22 (Type II).

2.3 PAVEMENT MARKERS AND ADHESIVES

A. Reflective and non-reflective pavement markers shall be ceramic conforming to the requirements of Section 85 of the Caltrans Standard Specifications.

B. Adhesive for pavement markers shall be Rapid Set Type epoxy conforming to Section 95-2.04 of the Caltrans Standard Specifications or hot melt bituminous adhesive conforming to Section 85-1.055 of the Caltrans Standard Specifications.

PART 3 EXECUTION

3.1 TRAFFIC PAINT AND GLASS BEADS

A. All new surfaces shall have the traffic paint applied in two applications in accordance with Section 84-3 of the Caltrans Standard Specifications. The first or priming coat shall be in light applications without glass beads to seal the pavement. The first coat shall be dry before application of the second coat.

B. Restriping where indicated on the drawings, shall coincide with the original painting and shall be applied in one application in accordance with Section 84-3 of the Caltrans Standard Specifications.

C. All surfaces to be painted shall be clean and dry prior to painting. Ample time shall be allowed between placement of the asphalt pavement and the initial painting application. There shall be a minimum drying time between paint applications of approximately 20 minutes.

D. Glass beads shall be placed on all traffic stripes (except black stripes) and pavement markings except for the first or priming coat on new asphalt surfaces. All glass beads shall be applied directly to the wet traffic paint with a method that provides uniform distribution.
E. Striping shall not be applied at temperatures below 40° F or if pavement surfaces are wet.

F. The alignment of all striping shall be accurately laid out. Lines which do not conform to the alignment as set forth in the Plans, or which have a wavy appearance, shall be removed and replaced by the Contractor at its expense.

3.2 THERMOPLASTIC MATERIAL AND GLASS BEADS

Thermoplastic material and glass beads shall be applied in accordance with Caltrans Standard Specifications Section 84-2.04. Minimum application thickness shall be 0.1-inch for traffic stripes and 0.15-inch for pavement markings.

3.3 REMOVAL OF STRIPING, MARKERS AND MARKINGS

A. All stripes and pavement markings not in conformance with the proposed striping plan shall be removed by grinding or sandblasting. Black paint will not be allowed unless specifically indicated on the drawings. All thermoplastic material and raised pavement markers shall be removed prior to the application of an asphalt overlay.

B. After removal of paint and thermoplastic traffic striping or pavement markings, an asphalt seal coat of Reed & Graham OverKote Asphalt Pavement Coating or approved equal shall be applied 10 feet beyond the limit of the thermoplastic material removal and to the entire width of the street.

3.4 PAVEMENT MARKERS

A. All surfaces shall be clean and dry prior to application of the markers.

B. Installation of pavement markers shall conform to the requirements of Section 85-1.06 of the Caltrans Standard Specifications.

3.5 PAVEMENT STRIPING

A. All striping shall comply with the latest version of the CAMUTCD. Contractor shall provide temporary, preliminary striping in the field as indicated on the drawings for review prior to installation of the permanent striping.

B. Striping shall be laid out with smooth curves and tangential intersections of points.

3.5 CROSSWALKS

A. All crosswalks shall be continental style as referenced in the CAMUTCD Manual and FDG detail CS-315.

B. Per CAMUTCD, crosswalks shall be laid out perpendicular to travel lanes and bars, and spaced to avoid travel lanes.
END OF SECTION