

SECTION 02577 – PAVEMENT MARKINGS

PART 1 – GENERAL

1.01 RELATED DOCUMENTS:

Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SECTION INCLUDES:

Furnish labor, materials and equipment necessary to provide markings on previously constructed pavement as indicated on the drawings as specified herein.

1.03 GENERAL REQUIREMENTS:

- A. Furnish all labor, materials and equipment necessary to provide markings on previously constructed pavement as indicated on the drawings and as specified herein.
- B. The "HAWAII STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE, 2005" and its amendments and the "STANDARD DETAILS FOR PUBLIC WORKS" dated September 1984, and its amendments, shall govern all work except for subsections on Measurement and Payment which shall not be applicable. This publication shall be referred to as the Standard Specification hereinafter.

1.04 SUBMITTALS:

Submit for approval 6 copies of manufacturer's certificates attesting to the Consultant that materials and equipment meet the requirements specified.

1.05 DELIVERY AND STORAGE:

Deliver paints and paint material in original sealed containers that plainly show the designated name, specification number, batch number, color, date of manufacture, manufacturer's direction, and name of manufacturer. Provide storage facilities at the job site for maintaining materials at temperature recommended by the manufacturer.

1.06 WEATHER LIMITATIONS:

Apply paint to clean, dry surfaces, and unless otherwise approved, only when air and pavement temperatures are less than 90 degrees F.

1.07 TRAFFIC CONTROLS:

Place small markers along newly painted lines to control traffic and prevent damage to newly painted surfaces.

PART 2 - PRODUCTS

2.01 MATERIALS:

Provide materials conforming to the required specification herein.

1. Pavement Marking Materials: Section 755.

2.02 EQUIPMENT:

All materials, tools and equipment used in performance of the work shall be approved and maintained in satisfactory operating condition. Hand-operated push-type machines, of a type commonly used for application of paint to pavement surfaces shall be acceptable for marking parking areas. Applicator machine shall be equipped with the necessary paint tanks and spraying nozzles, and shall be capable of applying paint, uniformly, at coverage specified. Sandblasting equipment shall be provided for use in areas where push-type machines cannot be used.

PART 3 - EXECUTION

3.01 SURFACE PREPARATION:

Allow new pavement surfaces to cure for a period of not less than 7 days before application of marking materials. Thoroughly clean surfaces to be marked before application of the paint. Remove dust, dirt and other granular surface deposits by sweeping, blowing with compressed air, rinsing with water, or a combination of these methods as required. Completely remove rubber deposits, surface laitance, existing paint markings and other coatings adhering to the pavement, with scrapers, wire brushed, sandblasting, approved chemicals or mechanical abrasion. Scrub affected areas, where oil or grease is present on old pavements to be marked, with several applications of trisodium phosphates solution, or other approved detergent or degreaser, and rinse thoroughly after each application. After cleaning oil-soaked areas, in any area, until pavement surfaces are dry and clean and have been inspected and approved by the Consultant.

3.02 APPLICATION:

- A. Rate of Application: Apply paint evenly to the pavement surface, to be coated at the rate of 105 (plus or minus 5) square feet per gallon.
- B. Painting: Apply paint pneumatically with approved equipment, at rate of coverage specified herein. Provide guidelines and templates, as necessary, to control paint application. Take special precautions in marking symbols. Sharply outline all edges of markings. The maximum drying time requirements of the paint specifications will be strictly enforced, to prevent undue softening of bitumen, and pickup, displacement or discoloration by tires of traffic. Discontinue painting operations, if there is a deficiency in drying of the markings, until cause of the slow drying is determined and corrected.

3.03 INSPECTION:

Materials shall be examined, at the job site, to determine that it is the material reference in the report of tests results or certificate of compliance.

- 1. Surface preparation and application procedures will be examined by the Consultant to determine conformance with the requirements specified. Each separate operation shall be approved prior to initiation of subsequent operations.

END OF SECTION