

## **PART 1    GENERAL**

### **1.1    RELATED SECTION**

- .1    Section 01 33 00 – Submittal procedures
- .2    Section 01 35 00 - Traffic regulation
- .3    Section 32 12 16 – Asphalt paving.

### **1.2    REFERENCES**

- .1    CAN/CGSB - 1.5 - M91, Thinner, mineral oil at weak flash point.
- .2    CGSB1 - GP - 12c - 68, Colour spread out paintings.
- .3    CGSB1 - GP - 71 - 83, Testing methods of paintings and pigments.
- .4    CGSB1 - GP - 74M - 79, Painting alkyd of road demarcation.

### **1.3    SAMPLES**

- .1    Subject the samples necessary in accordance with the regulations of the section 01 33 00 – Submittal procedures
- .2    At least four (4) weeks before beginning work, submit to the Engineer the following samples of materials proposed for work.
  - .1    Two (2) samples of 1L of each type of painting.
  - .2    One (1) sample of 1kg of micro marbles of glass.
  - .3    Sampling: according to standard CGSB1-GP-71.
- .3    Identify each sample by indicating the name of the project and its site, the name and the address of the manufacturer of painting, the type of painting, the number of standard CGSB, the number of the formulation and that of the batch of production.

### **1.4    MEASUREMENT PROCEDURES**

- .1    No measurement for payment will be made for this work. The Contractor shall include the cost in the relevant items. This work includes the marking required during construction and after the works as they were before. This work shall include all machinery, equipment, materials and labor necessary to redo the markings of the surfaces affected by the works.
- .2    Refer to Section 01 35 00 - Traffic regulation.

## **PART 2    PRODUCT**

### **2.1    MATERIALS**

- .1    Painting
  - .1    The painting of indication to the resins alkyds, for roadway, must be in conformity with standard CGSB1 - GP - 74M.
  - .2    Color: yellow 505 - 308, white 513 - 301, conforms to standard CGSB1 - GP - 12c.
  - .3    Upon request, the Engineer will provide a list of the approved products of painting appropriate for the work. One can use branded paintings but, if necessary, the Engineer reserves the right to carry out other tests.
- .2    Thinner: conform to standard CAN/CGSB - 1.5.
- .3    Micro marbles of glass
  - .1    Type to be powdered, in conformity with standard CGSB1 - GP - 74M.

## **PART 3    EXECUTION**

### **3.1    MATERIAL**

- .1    Use equipment of approved marking, functioning under pressure, being able to uniformly apply painting in a continuous line, two continuous lines and broken lines. The material used must be able to apply the products of marking uniformly, at the prescribed rates of application, and it must be provided with a sure stopping device.
- .2    The material used must be able to apply reflective micro marbles of glass by powdering them to painting coldly applied.

### **3.2    SURFACE QUALITY**

- .1    The road surface to paint must be dry, free from puddle pools of water, white frost, ice, dust, oil, grease and any other foreign matter.

### **3.3    IMPLEMENTATION**

- .1    The ministry representative will determine the layout of the markings carried out on the roadway.
- .2    Unless otherwise specified by the ministry representative, apply painting only when the speed of the wind is lower than 60km/h, the temperature of the air is higher than 10°C and that it does not envisage rain in the four (4) next hours.
- .3    Uniformly apply painting at a rate of 3 m<sup>2</sup>/L.
- .4    Not to dilute painting without the authorization of the ministry representative.
- .5    The marked letters and symbols must be in conformity with dimensions indicated.

- .6 The painted lines must have a colour and a uniform density, and the demarcations must be clear.
- .7 Clean well the painting tank of the marking equipment before filling it with painting of a different color.
- .8 Powder the micro marbles with glass at a rate of 200g/m<sup>2</sup> of painted surface, immediately after the application of painting.

### **3.4 TOLERANCE**

- .1 The acceptable variation concerning dimensions of the markings carried out on the roadway is 10 mm, in more or less, compared to dimensions indicated.
- .2 Remove incorrect markings.

### **3.5 PROTECTION OF MARKINGS**

- .1 Protect markings until painting is dry.

**END OF THE SECTION**