

PAINTED PAVEMENT MARKING

1.0 GENERAL

1.1 RELATED WORK

- 1.1.1 City of Lethbridge, Infrastructure Services, Detailed Engineering Standards.

1.2 REFERENCES

- 1.2.1 CAN/CGSB-1.5-M91, Low Flash Petroleum Spirits Thinner.
- 1.2.2 CGSB 1-GP-12C-68, Standard Paint Colors.
- 1.2.3 CGSB 1-GP-71-83, Method of Testing Paints and Pigments.
- 1.2.4 CGSB 1-GP-74M-79, Paint, Traffic, Alkyd.

1.3 SAMPLES

- 1.3.1 Submit samples in accordance with Section 01300 - Submittals.
- 1.3.2 Submit to Engineer following material sample quantities at least four (4) weeks prior to commencing work.
 - 1. Two (2) 1-L samples of each type of paint.
 - 2. One (1) 1-kg sample of glass beads.
 - 3. Sampling to CGSB 1-GP-71.
- 1.3.3 Mark samples with name of project and its location, paint manufacturer's name and address, name of paint, CGSB specification number and formulation number, and batch number.

2.0 PRODUCTS

2.1 MATERIALS

2.1.1 Paint:

- 1. To C
- 2. SB 1-G-12C, yellow 505-308, black 512-301, white 513-301.

2.1.2 Thinner:

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1. CAN/CGSB-1.5.
- 2.1.3 Glass beads:
 1. Overlay type: to CGSB 1-GP-74M.

3.0 EXECUTION

3.1 EQUIPMENT REQUIREMENTS

- 3.1.1 Paint applicator to be an approved pressure type (mobile) distributor capable of applying paint in single, double, and dashed lines. Applicator to be capable of applying marking components uniformly, at rates specified, and to dimensions as indicated, and to have positive shut-off.
- 3.1.2 Distributor to be capable of applying reflective glass beads as an overlay on freshly applied paint.

3.2 CONDITION OF SURFACES

- 3.2.1 Pavement surface to be dry, free from ponded water, frost, ice, dust, oil, grease and other foreign materials.

3.3 TRAFFIC CONTROL

- 3.3.1 Traffic Control in accordance with Section 1500.

3.4 APPLICATION

- 3.4.1 Lay out pavement markings.
- 3.4.2 Unless otherwise approved by Engineer, apply paint only when air temperature is above 10°C, wind speed is less than 60 km/h, and no rain is forecast within next four (4) hours.
- 3.4.3 Apply traffic paint evenly at rate of 3 m²/L.
- 3.4.4 Do not thin paint unless approved by Engineer.
- 3.4.5 Symbols and letters to conform to dimensions indicated.
- 3.4.6 Paint lines to be of uniform color and density with sharp edges.
- 3.4.7 Thoroughly clean distributor tank before refilling with paint of different color.
- 3.4.8 Apply glass beads at rate of 200 g/m² of painted area immediately after

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application of paint.

3.5 TOLERANCE

- 3.5.1 Paint markings to be within plus or minus 12 mm of dimensions indicated.
- 3.5.2 Remove incorrect markings in accordance with Section 02581 - Pavement Surface Cleaning and Removal of Pavement Markings.

3.6 PROTECTION OF COMPLETED WORK

- 3.6.1 Protect pavement markings until dry.