



**CONSTRUCTION SPECIFICATION FOR  
FLEXIBLE DELINEATOR POSTS**

---

**TABLE OF CONTENTS**

<b>705.01</b>	<b>SCOPE</b>
<b>705.02</b>	<b>REFERENCES</b>
<b>705.03</b>	<b>DEFINITIONS</b>
<b>705.04</b>	<b>DESIGN AND SUBMISSION REQUIREMENTS</b>
<b>705.05</b>	<b>MATERIALS</b>
<b>705.06</b>	<b>EQUIPMENT - Not Used</b>
<b>705.07</b>	<b>CONSTRUCTION</b>
<b>705.08</b>	<b>QUALITY ASSURANCE - Not Used</b>
<b>705.09</b>	<b>MEASUREMENT FOR PAYMENT</b>
<b>705.10</b>	<b>BASIS OF PAYMENT</b>

**705.01 SCOPE**

This specification covers the requirements for the installation of permanent and temporary flexible delineator posts and relocation of temporary flexible delineator posts.

**705.02 REFERENCES**

This specification refers to the following standards, specifications, or publications:

**Ontario Provincial Standards Specifications, Material**

OPSS 1212 Hot Poured Rubberized Asphalt Joint Sealing Compound

**Ontario Ministry of Transportation Publications**

Ontario Traffic Manual (OTM):  
Book 7 - Temporary Conditions  
Book 11 - Pavement, Hazard and Delineation Markings

Designated Sources for Materials (DSM)

## **ASTM International**

D4956 - 19 Retroreflective Sheeting for Traffic Control

### **705.03 DEFINITIONS**

For the purpose of this specification, the following definition applies:

**Flexible Delineator Post** means a tubular plastic marker installed vertically for the purpose of channelizing traffic or delineating roadside features in temporary or permanent applications. The tubular post is securely fixed to the ground surface by hinged (flexible) connection to a solid base. When impacted by a vehicle, the post has the ability to bend 90° from vertical and self-restore following impacts.

### **705.04 DESIGN AND SUBMISSION REQUIREMENTS**

#### **705.04.01 Submission Requirements**

One copy of the manufacturer's installation instructions shall be submitted to the Contract Administrator.

Installation of the flexible delineator posts shall not commence until the Contract Administrator has received the copy of the instructions.

### **705.05 MATERIALS**

#### **705.05.01 Flexible Delineator Posts**

Flexible delineator posts shall be supplied from a source named on the ministry's DSM.

All supplied system components shall be according to the manufacturer's specifications.

The height of the post shall be as specified in the Contract Documents.

The post colour shall match the colour of the reflective sheeting.

To maintain a visually consistent installation, only one product shall be used on the Contract.

#### **705.05.02 Anchor and Support Hardware**

Anchor and support hardware used to fix the flexible delineator post to the ground surface shall be supplied by the manufacturer.

#### **705.05.03 Reflective Sheeting**

Flexible delineator posts shall be outfitted with high intensity retroreflective sheeting according to ASTM D4956, Type III or IV. For permanent conditions, the colour shall be according to OTM Book 11. For temporary conditions, the colour shall be according to OTM Book 7. Dimensions, spacing, and quantity shall be as specified in the Contract Documents.

#### **705.05.04 Temporary Flexible Delineator Posts**

Temporary flexible delineator posts may be reused provided each post meets each of the following criteria:

- a) The ability to bend 90° from vertical and self-restore to a vertical position after impacts.
- b) The base is intact and permits anchorage to the ground surface that is equivalent to a new post.
- c) The post is intact without any cracks or fissures.
- d) The retroreflective sheeting is fully intact with only minor tears or scratches that do not affect the reflectivity of the sheeting.

#### **705.07 CONSTRUCTION**

##### **705.07.01 General**

Permanent and temporary flexible delineator posts shall be installed and securely fixed to the ground surface according to the manufacturer's instructions at locations specified in the Contract Documents.

##### **705.07.02 Relocation of Temporary Flexible Delineator Posts**

Flexible delineator posts shall be relocated as specified in the Contract Documents, including the removal of existing and installation of new anchorage hardware and adhesives.

All holes resulting from the relocation of the delineator post assemblies shall be filled with a hot poured rubberized asphalt joint sealing compound according to OPSS 1212 when they are located in areas not to be resurfaced as part of the Work. At the time of filling, the holes shall be dry and free of dust and debris.

##### **705.07.03 Maintenance of Temporary Flexible Delineator Posts**

Flexible delineator posts shall be maintained for the duration of the construction period for which they are required.

Flexible delineator posts shall be monitored daily. Missing or broken flexible delineator posts shall be replaced within 48 hours.

Posts that do not have a uniform or satisfactory appearance to the satisfaction of the Contract Administrator shall be replaced or corrected within 48 hours of notification.

##### **705.07.04 Removal of Temporary Flexible Delineator Posts**

Flexible delineator posts and associated hardware and adhesives shall be removed at the completion of the construction period for which they were required.

All holes resulting from the removal of the delineator post assemblies shall be filled with a hot poured rubberized asphalt joint sealing compound according to OPSS 1212 when located in areas not to be resurfaced as part of the Work. At the time of filling, the holes shall be dry and free of dust and debris.

##### **705.07.05 Management of Excess Material**

Management of excess material shall be according to the Contract Documents.

**705.09 MEASUREMENT FOR PAYMENT**

**705.09.01 Actual Measurement**

**705.09.01.01 Flexible Delineator Post - Permanent**

For measurement purposes, a count shall be made of the number of complete flexible delineator posts installed.

**705.09.01.02 Flexible Delineator Post - Temporary**

For measurement purposes, a count shall be made of the number of complete flexible delineator posts installed and removed, up to the maximum number of flexible delineator posts required to be in place at any one time during the Contract.

**705.09.01.03 Flexible Delineator Post - Relocation**

For measurement purposes, a count shall be made of the number of complete flexible delineator posts relocated. Flexible delineator posts that are temporarily surplus and are required for future stages shall be paid for as one relocation for the combined moves into and out of storage, including any off-site storage required due to on-site restrictions.

**705.09.02 Plan Quantity Measurement**

When measurement is by Plan Quantity, such measurement shall be based on the units shown in the clauses under Actual Measurement.

**705.10 BASIS OF PAYMENT**

**705.10.01 Flexible Delineator Post - Permanent - Item  
Flexible Delineator Post - Temporary - Item  
Flexible Delineator Post - Relocation - Item**

Payment at the Contract price for the above tender items shall be full compensation for all labour, Equipment, and Material to do the work.

When the Contract contains separate items for the work required by this specification, payment shall be at the Contract price and according to the specification for such work.

Costs associated with any required removals and replacement or repairs of defective work and materials shall be the Contractor's responsibility at no additional cost to the Owner.