

## 655.3.06

2. Screed or level the thermoplastic.
3. Immediately embed the raised reflector in the molten thermoplastic.

### C. **Preformed Plastic Pavement Markings**

Apply preformed plastic pavement markings according to Section 657.

#### **655.3.06 Quality Acceptance**

General Provisions 101 through 150.

#### **655.3.07 Contractor Warranty and Maintenance**

General Provisions 101 through 150.

### **655.4 Measurement**

Each type of arrow is measured by the Unit.

#### **655.4.01 Limits**

General Provisions 101 through 150.

### **655.5 Payment**

Each arrow will be paid for per Unit placed. Payment is full compensation for furnishing materials, cleaning, and installing the completed arrow with raised reflectors.

Payment will be made under:

Item No. 655	Pavement arrow (painted) with raised reflectors	Per each
Item No. 655	Pavement arrow (thermoplastic) with raised reflectors	Per each
Item No. 655	Pavement arrow (preformed plastic) with raised reflectors	Per each

#### **655.5.01 Adjustments**

General Provisions 101 through 150.

## **Section 656—Removal of Pavement Markings**

### **656.1 General Description**

This work includes removing existing traffic stripes or markings according to Plans or as designated by the Engineer.

#### **656.1.01 Definitions**

General Provisions 101 through 150.

#### **656.1.02 Related References**

##### **A. Standard Specifications**

Section 107—Legal Regulations and Responsibility to the Public

Section 150—Traffic Control

Section 804—Abrasives for Blast Cleaning

##### **B. Referenced Documents**

General Provisions 101 through 150.

#### **656.1.03 Submittals**

General Provisions 101 through 150.

### **656.2 Materials**

General Provisions 101 through 150.

**656.2.01 Delivery, Storage, and Handling**

General Provisions 101 through 150.

**656.3 Construction Requirements****656.3.01 Personnel**

General Provisions 101 through 150.

**656.3.02 Equipment**

General Provisions 101 through 150.

**656.3.03 Preparation**

General Provisions 101 through 150.

**656.3.04 Fabrication**

General Provisions 101 through 150.

**656.3.05 Construction**

Remove pavement markings before changing the traffic pattern. This Specification does not relieve the Contractor of the responsibilities in Section 150 or Subsection 107.07.

Utilize blasting, such as sand blasting or water blasting, grinding, or other approved methods to completely remove pavement markings without materially damaging the pavement surface or texture. Repair (at the Contractor's expense) damage to the pavement or other surface from removing the markings. Use repair methods acceptable to the Engineer.

**A. Blast Cleaning**

Do not allow sand and other debris to accumulate and interfere with drainage or create a traffic hazard.

1. When blast cleaning within 10 ft (3 m) of a lane occupied by public traffic, immediately remove residue and dust when the sand hits the pavement surface.
2. Use a vacuum attachment operating simultaneously with blast cleaning, or use other methods approved by the Engineer.
3. Ensure that sand for blast cleaning conforms to Section 804.

**656.3.06 Quality Acceptance**

General Provisions 101 through 150.

**656.3.07 Contractor Warranty and Maintenance**

General Provisions 101 through 150.

**656.4 Measurement**

Removal of existing pavement markings is measured by the linear foot (meter), linear mile (kilometer), gross linear foot (meter), gross linear mile (kilometer), or square yard (meter) of the designated width and the type of stripe.

Where removal of traffic markings will be paid for by the square yard (meter), the actual number of square yards (meters) removed will be paid for. The space between the stripes or letters will be included in the overall measurement.

Removal of words in existing traffic markings is measured per each word removed.

**656.4.01 Limits**

General Provisions 101 through 150.

**656.5 Payment**

When shown as a Pay Item on the Plans, payment for removing pavement markings will be at the Contract Unit Price for the Unit. Payment is full compensation for furnishing materials, labor, equipment, and traffic control necessary to perform the work.

Payment will be made under:

Item No. 656	Removing existing solid traffic stripe ___ in (mm) wide ( <u>type</u> )	Per linear foot (meter)
Item No. 656	Removing existing skip traffic stripe ___ in (mm) wide ( <u>type</u> )	Per gross linear foot (meter)

Item No. 656	Removing existing solid traffic stripe __ in (mm) wide ( <u>type</u> )	Per linear mile (kilometer)
Item No. 656	Removing existing skip traffic stripe __ in (mm) wide ( <u>type</u> )	Per gross linear foot (meter)
Item No. 656	Removing existing traffic markings (type)	Per square yard (meter)
Item No. 656	Removing existing traffic markings—words	Per each

**656.5.01 Adjustments**

General Provisions 101 through 150.

## **Section 657—Preformed Plastic Pavement Markings**

**657.1 General Description**

This work includes placing plastic pavement markings or legends according to the Plans and Specifications or as otherwise directed.

**657.1.01 Definitions**

General Provisions 101 through 150.

**657.1.02 Related References****A. Standard Specifications**

General Provisions 101 through 150.

**B. Referenced Documents**

Manual on Uniform Traffic Control Devices for Streets and Highways

QPL 74

**657.1.03 Submittals**

Transfer to the Department manufacturer warranties or guarantees for heat-applied preformed plastic marking materials. Ensure that warranties or guarantees state that they are subject to transfer.

**657.2 Materials**

Select one of the following types of preformed marking material according to the Plans and Proposal:

- Type TR—Temporary Removable Plastic Marking
- Type TN—Temporary Non-removable Plastic Marking
- Type PA —Permanent Plastic Marking
- Type PB—Permanent Patterned Plastic Marking

For a list of sources, see QPL 74.

**A. General Requirements for Preformed Pavement Markings**

## 1. Shapes and Sizes

Use markings that conform to the shapes and sizes outlined in the Manual on Uniform Traffic Control Devices for Streets and Highways.

## 2. Pigmentation

Use white or yellow pigmented plastic according to each marking type.

## 3. Adhesion

Use markings that can be affixed to bituminous or Portland cement concrete pavements by pressure-sensitive precoated adhesive or a liquid contact cement.

Ensure that marking adhesive adheres to the roadway under normal climactic and traffic conditions.

## 4. Conformability