

53.38 SUPPLY OF ARROWBOARDS

53.38.1 GENERAL

The Work consists of supplying a truck with mounted arrowboard or a stationary arrowboard for controlling traffic in emergency situations or in work items where the use of an arrowboard has not been specified.

53.38.2 MATERIALS

No materials are required for this Work.

53.38.3 EQUIPMENT

The Contractor shall supply all equipment necessary to complete the Work.

The arrowboard trucks shall be equipped with the following:

- A truck-to-truck voice communication device.
- An overhead revolving beacon with an amber lens a minimum of 180 mm high and 180 mm wide. The beacon shall be mounted on the vehicle fully visible to traffic approaching from both front and rear.
- A sequential arrowboard meeting the following specifications:
 - Minimum size 0.75 metres x 1.52 metres.
 - 12-volt solid state circuitry.
 - Minimum of 25 amber sealed-beam hooded lamps.
 - Fully adjustable light intensity on all arrowboard lights.
 - Operating modes which include:
 - (1) sequential left arrow or chevron
 - (2) sequential right arrow or chevron
 - (3) sequential double arrow or chevron
 - (4) Horizontal bar
 - (5) all 4 lamps in the extreme corners of the panel flashing simultaneously at 35-50 flashes per minute with the flashing lights lit for 50% of the time.
 - The arrowboard shall be controlled from a console located in the vehicle cab.
 - The arrowboard display shall be visible to traffic approaching the rear of the trucks.

The stationary arrowboards shall be equipped with the following:

- A sequential arrowboard meeting the following specifications:
 - Minimum size 0.75 metres x 1.52 metres.
 - Minimum 25 amber sealed beam, hooded lamps.
 - Fully adjustable light intensity on all arrowboard lights.

- Operating modes which include:
 - (1) sequential left arrow or chevron
 - (2) sequential right arrow or chevron
 - (3) sequential double arrow or chevron
 - (4) horizontal bar
 - (5) all four lamps in the extreme corners of the panel flashing simultaneously at 35-50 flashes per minute with the flashing lights lit for 50% of the time.

53.38.4 PROCEDURE

Unless otherwise specified, the Engineer shall notify the Contractor of the location where arrowboards are required.

During guardrail installation or on major construction sites where arrowboards are necessary, the Contractor shall refer to drawings TEB 1.56 and TEB 1.57 for arrowboard positioning.

A stationary working arrowboard truck shall have its steering wheels turned towards the adjacent ditch.

Messages displayed shall be one of the following:

- On a 2 Lane Highway, a bar (6 horizontal lights flashing) is preferred, but if a bar cannot be shown on the type of arrowboard provided then 4-corner lights flashing is an acceptable alternative.
- On a 4 Lane Highway, a right arrow when operating in the left lane and a left arrow when operating in the right lane.
- On a single lane road (for example, the exit leg of an interchange), 4 flashing corner lights or a bar.

53.38.5 RESPONSE TIME

In urgent situations, the Contractor shall respond within 1 hour of the issuance of the Work Order. In all other cases, the arrowboard shall be supplied within 5 calendar days of the issuance of the Work Order.

53.38.6 MEASUREMENT AND PAYMENT

Measurement will be made of the number of hours the arrowboard is used in the Work.

Payment will be made at the applicable unit price bid per hour for "Supply of Arrowboard - Truck Mounted" or "Supply of Arrowboard - Stationary". This payment shall be full compensation for supplying and maintaining a truck mounted arrowboard or a stationary arrowboard, and all labour, equipment, tools and incidentals necessary to complete the Work. The cost of an operator is included in the unit price bid per hour when a truck mounted arrowboard is provided.

In urgent situations where the Contractor is required to respond within 1 hour of the issuance of the Work Order, an additional payment will be made at the unit price bid per occurrence for "Traffic Control - Premium". This payment will be full compensation for complying with the accelerated scheduling required to complete the Work. This payment will also be full compensation for complying with accelerated scheduling requirements for a flagperson and/or flagperson, signs and vehicle in accordance with Specification 53.37, Supply of Flagperson, when these items are required by the Engineer.

53.38.7 WARRANTY

There is no warranty period for this Work.