

53.38 SUPPLY OF ARROWBOARDS FOR TRAFFIC CONTROL

53.38.1 GENERAL

The Work consists of supplying a mobile truck with mounted arrowboard, or a truck with mounted arrowboard parked on site, or a stationary tow-behind arrowboard for controlling traffic in emergency situations

In unique situations, such as cleaning overhead signs, removing ice from the road surface or winging inside shoulders on divided highways, an arrowboard may be ordered by the Engineer.

Arrowboards may also be required as part of the normal traffic accommodation for an activity, as specified in the Department's Traffic Accommodation in Work Zones manual or the specifications.

53.38.2 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, or other equivalent type beacon approved by the Engineer. The beacon shall be mounted on the vehicle fully visible to traffic approaching from both front and rear.
- ! 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.

All arrowboards shall meet the following specifications:

- Minimum size 0.75 metres x 1.52 metres.
- 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.

A light bar is not considered an arrowboard.

53.38.3 PROCEDURES

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

On any sites where arrowboards are required, the Contractor shall refer to the Traffic Accommodation in Work Zone manual 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, 4 flashing corner lights or a bar.
- ! 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.

53.38.4 RESPONSE TIME AND TIME TO COMPLETE

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 or in conjunction with the activity being performed.

53.38.5 MEASUREMENT AND PAYMENT

Measurement will be in hours (to the nearest ¼ hour) for the time spent transporting the arrowboard to and from the worksite and for the time the arrowboard engaged in the Work in accordance with the following:

- ! the maximum allowable travel time from the nearest shop to the worksite will be one hour
- ! the maximum allowable travel time from the worksite to the nearest shop will be one hour
- ! travel time shall be reported separately on a daily crew worksheet
- ! two 15 minute coffee breaks per day for the operator of a mobile truck mounted arrowboard will be allowed (no deduction)

Payment will be made at the applicable unit price bid per hour for "Supply of Truck Mounted Arrowboard - Mobile" or "Supply of Truck Mounted Arrowboard - Stationary", or "Supply of Pull-Behind Arrowboard - Stationary". This payment shall be full compensation for supplying and maintaining a truck mounted arrowboard or a pull behind arrowboard and additional transport equipment including and operator where applicable, travel time to and from worksite and all labour, equipment, tools and incidentals necessary to complete the Work.

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.

In situations where the arrowboard is part of the traffic accommodation requirements for a particular activity (as detailed in the Traffic Accommodation in Work Zones manual or the specifications), all costs associated with the supply and use of an arrowboard will be considered incidental to the Work and will not be paid for separately.

53.38.6 WARRANTY

There is no warranty period for this Work.