

flagman shall be provided at the leading end of the closure during daytime. This flagman shall be provided at the 60-km/h sign to warn the traffic about the closure."

h) Traffic calming devices

Add the following after the first paragraph in Clause A1.5.7.11 (h):

"The road markings leading up to the speed hump / raised pedestrian crossing shall be in accordance with the details specified in the South African Road Traffic Signs Manual. The new speed hump and raised pedestrian crossing shall only be marked when the premix has cooled sufficiently. This may result in the speed hump and/or raised pedestrian crossing remaining unmarked overnight. In this case, flashing red or orange lights shall be affixed to barriers to indicate the work site."

Add the following sub-clauses after Clause A1.5.7.11 (i) as follows:

j) Traffic-Control Devices

At each traffic control point, an all-weather shelter of at least three (3) square metres capable of accommodating two operators, with a clear window, a stable door, two chairs and a portable chemical toilet that shall be regularly maintained shall be provided. Each control point shall have a generator (with back-up power supply) and a 2x400w metal halide floodlight mounted onto a 9m winched fiberglass pole bolted to a 1,5m buried galvanized stem to light up the traffic control point at night time. Another floodlight/pole shall be placed some 20 metres apart from the traffic control point to extend the lighting along the road as a measure of safety for motorists in stacking / queuing vehicles at night."

k) Warning devices

At night and when directed by the Employer's Agent, amber flashing warning lights shall be placed at strategic places such as barricades, obstructions, etc. The warning lights shall be "Vama SA" amber flashing lights or an equivalent type.

All construction vehicles and plant used on the works shall be equipped with rotating amber flashing lights in working condition and warning boards as specified. All vehicles and plant before being allowed on the site shall obtain a clearance permit from the Employer's Agent.

(i) Vehicle mounted flashing lights

Rotating lights shall have an amber lens of minimum height of 200 mm of the revolving parabolic reflector mountable type and shall be mounted in such a way as to be highly visible from all directions. The lights on construction vehicles shall not be switched on while vehicles are being operated on unrestricted sections of a public road but shall be switched on while construction vehicles are operating within the accommodation of traffic area, as the vehicles decelerate to enter a construction area, and as the vehicles accelerate to the general speed when entering the road from a construction area. Lights on plant shall operate continuously while the plant is working alongside sections of road open to public traffic.

All LDV's and cars operating on site shall also be equipped with rotating amber flashing lights which shall be placed so as to be highly visible and operated continuously while the vehicles are manoeuvring in or out of traffic or are travelling or parked alongside roads open to public traffic.

Rotating lights and the "CONSTRUCTION VEHICLE" signs on the contractor's vehicles and plant shall not be paid for separately but shall be included in the rates covering the use of the vehicles.

The Contractor shall apply and maintain lights together with temporary mounting brackets, to the approval of the Employer's Agent. Vehicles and plant that do not comply with these requirements shall be removed from the site.

(ii) Sign mounted flashing lights

Two amber flashing lights shall be vertically mounted on top of the traffic signs at each end of each traffic accommodation section as shown on the drawings. The lights shall be operated during the hours of darkness."

(iii) Amber flashing lights for the Employer's Agent

The Contractor shall supply and maintain similar rotating amber flashing lights with a magnetic base, flexible cable and connection suitable for insertion into a standard 12V automobile cigarette lighter socket for the Employer's Agent and his staff.