

## ELECTRICAL MAINTENANCE SPECIFICATION E-320

### HIGHMAST LIGHTING MAINTENANCE

#### 1. OBJECTIVE

To ensure that highmast lighting is operational and functions in accordance with its design and Ministry standards.

#### 2. DETAILED PERFORMANCE SPECIFICATIONS

##### 2.1 Routine Maintenance Services

The Contractor must:

- a) repair or replace any highmast lighting that constitutes a Safety Hazard to the highway user and Respond within 1 hour;
- b) repair or replace highmast lighting and their components that create Traffic Disruptions and Respond within 1 hour;
- c) repair or replace highmast lighting and/or their components that do not create a Safety Hazard, do not cause Traffic Disruptions, or are structurally sound but have identified deficiencies and Respond within 30 days;
- d) repair or replace highmast lighting and/or their components if more than 1/3 of the luminaires are not operating on one pole or at a single interchange within 1 hour from the time the deficiency was detected by or reported to the Contractor;
- e) repair or replace highmast lighting and/or their components if 1/3 of the luminaires are not operating on 1 pole or at a single interchange and Respond within 7 days;
- f) repair all other deficiencies within 30 days or as soon as possible thereafter if inclement weather prevents such activities;
- g) perform Preventative Maintenance as required;
- h) replace all highmast lighting lamps every 48 months;
- i) mark the replacement lamps with the date at the time of replacement;
- j) service and inspect raise / lower systems every 12 months;
- k) notify the RTMC of any malfunctioning highmast lighting causing a Traffic Disruption within 5 minutes from the time the malfunction was detected by or reported to the Contractor and notify the RTMC when repaired;

- l) remove or cover graffiti in accordance with the performance time frames listed in the *Highway Maintenance Specification – Litter Collection and Graffiti Removal*; and
- m) document all activities related to electrical maintenance of highmast lighting including but not limited to field inspections, Patrols, testing, complaints received / responses made, and all changes made to the equipment and operations in a timely manner to the Province's satisfaction.

## 2.2 Materials

Refer to Article 3 of the Introduction to the Specifications.