

## ELECTRICAL MAINTENANCE SPECIFICATION E-340

### PEDESTRIAN AND CYCLIST TUNNEL LIGHTING MAINTENANCE

#### 1. OBJECTIVE

To ensure that pedestrian and cyclist tunnel lighting is operational and functions in accordance with their design and Ministry standards.

#### 2. DETAILED PERFORMANCE SPECIFICATIONS

##### 2.1 Routine Maintenance Services

The Contractor must:

- a) repair or replace any pedestrian and cyclist tunnel lighting that constitutes a Safety Hazard to the highway user and Respond within 1 hour;
- b) repair or replace pedestrian and cyclist tunnel lighting and their components that create pedestrian or cyclist disruptions and Respond within 1 hour;
- c) repair or replace pedestrian and cyclist tunnel lighting and/or their components if two adjacent luminaires or more than 50% of the luminaires in the tunnel are not operational and Respond within 1 hour;
- d) repair or replace pedestrian and cyclist tunnel lighting and/or their components if 50% or less are not operational and Respond within 7 Working Days;
- e) repair or replace pedestrian and cyclist tunnel lighting and/or their components that do not create a Safety Hazard, do not cause Traffic Disruptions, and are structurally sound but have identified deficiencies and Respond within 30 days;
- f) perform Preventative Maintenance as required;
- g) replace all pedestrian and cyclist tunnel lighting HID lamps every 48 months;
- h) replace all non-LED lamps other than HID lamps once every 12 months;
- i) notify the RTMC of any malfunctioning pedestrian and cyclist tunnel lighting causing a pedestrian or cyclist disruption within 5 minutes from the time the malfunction was detected by or reported to the Contractor and notify the RTMC when repaired;
- j) remove or cover graffiti in accordance with the performance time frames listed in the *Highway Maintenance Specification – Litter Collection and Graffiti Removal*;
- k) mark the replacement lamps with the date at the time of replacement; and

- l) document all activities related to electrical maintenance of pedestrian and cyclist tunnel 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.