

## **B.C. MINISTRY OF TRANSPORTATION**

### **Electrical Maintenance Specification E-120 (Version 6 – May/05)**

#### **ILLUMINATED PEDESTRIAN CROSSING SIGNS AND SPECIAL CROSSWALK SIGNS MAINTENANCE**

##### **1. OBJECTIVE**

To ensure that Illuminated Pedestrian Crossing Signs and Special Crosswalk Signs are operational, and function in accordance with their design and Ministry standards.

##### **2. GENERAL PERFORMANCE SPECIFICATIONS**

###### **2.1 Routine Maintenance Services**

All services for this Electrical Maintenance Specification are routine.

###### **2.2 Additional Services**

Not applicable to this Electrical Maintenance Specification.

##### **3. DETAILED PERFORMANCE SPECIFICATIONS**

###### **3.1 Routine Maintenance Services**

The Contractor must:

- a) repair or replace Illuminated Pedestrian Crossing Signs and Special Crosswalk Signs and their components;
- b) replace non-LED lamps;
- c) replace LED signal head light sources;
- d) notify the PHCC of any malfunctioning Illuminated Pedestrian Crossing Signs and Special Crosswalk Signs causing a traffic disruption and inform the PHCC when repaired; and

- e) remove or cover graffiti in accordance with the *Highway Maintenance Specification – Litter collection and Graffiti Removal*;
- f) document all activities related to electrical maintenance of Illuminated Pedestrian Crossing Signs and Special Crosswalk Signs including but not limited to field inspections, patrols, testing, complaints received / responses made, and all changes made to the equipment and operations.

**Note:**

The Contractor will clean, repair and/or replace all signs with electrical appurtenances in accordance with the Highway Maintenance Specification for *Sign System Maintenance*.

### **3.1.1 Performance Time Frames**

The following establishes the maximum time, from the time the deficiency was detected or reported to the Contractor, within which the Contractor must Respond to deficiencies:

- a) Illuminated Pedestrian Crossing Signs and Special Crosswalk Signs and their components that constitute or have the potential to constitute an immediate safety hazard to the Highway User or cause a traffic disruption, within 1 hour;
- b) Illuminated Pedestrian Crossing Signs and Special Crosswalk Signs and their components that do not operate as per their original design intent but are not immediate safety hazards, on the next regularly scheduled work day;
- c) Illuminated Pedestrian Crossing Signs and Special Crosswalk Signs and/or their components that operate as per the original design intent, do not create a safety hazard, and are structurally sound but have identified deficiencies, within 3 months;

The Contractor must:

- a) replace all incandescent lamps of signal heads once every 12 months;

- b) replace all high intensity discharge lamps every 48 months;
- c) replace LED signal head light sources as required;
- d) notify the PHCC of any malfunctioning Illuminated Pedestrian Crossing Signs and Special Crosswalk Signs causing a traffic disruption within 5 minutes from the time the malfunction was detected by or reported to the Contractor and inform the PHCC when repaired; and
- e) remove or cover graffiti in accordance with the Performance Time Frames listed in the *Highway Maintenance Specification – Litter Collection and Graffiti Removal*;
- f) document all activities related to electrical maintenance of Illuminated Pedestrian Crossing Signs and Special Crosswalk Signs immediately.

### **3.2 Additional Services**

- Not applicable to this Electrical Maintenance Specification.

### **3.3 Materials**

- Refer to the Introduction

