

BC MINISTRY OF TRANSPORTATION

Electrical Maintenance Specification E-620 (Version 6 – May/05)

IN-PAVEMENT ELECTRONIC GUIDANCE SYSTEMS MAINTENANCE

1. OBJECTIVE

- To ensure In-Pavement Electronic Guidance Systems are operational and functions 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 In-Pavement Electronic Guidance Systems and their components;
- b) perform preventative maintenance of In-Pavement Electronic Guidance Systems;
- c) notify the PHCC of any malfunctioning In-Pavement Electronic Guidance Systems causing a traffic disruption and inform the PHCC when repaired;
- d) remove or cover graffiti in accordance with the *Highway Maintenance Specification – Litter collection and Graffiti Removal*;
- e) mark the replacement display units with the actual date of replacement;

- f) document all activities related to electrical maintenance of In-Pavement Electronic Guidance Systems including but not limited to field inspections, patrols, testing, complaints received / responses made, and all changes made to the equipment and operations.

3.1.1 Performance Time Frames

The Contractor must:

- a) repair or replace In-Pavement Electronic Guidance Systems and their components that constitute or have the potential to constitute a safety hazard to the Highway User within 1 hour;
- b) repair or replace In-Pavement Electronic Guidance Systems and their components that create traffic disruptions within 1 hour;
- c) repair or replace In-Pavement Electronic Guidance Systems and their components that do not operate as per their original design but are not immediate safety hazards or causing traffic disruptions within 7 working days;
- d) repair or replace In-Pavement Electronic Guidance Systems and/or their components that do not create a safety hazard, do not cause traffic disruptions, and are structurally sound but have identified deficiencies within 3 months;
- e) repair or replace In-Pavement Electronic Guidance Systems and/or their components if more than 1/3 of the displays are not operational within 14 days;
- f) perform preventative maintenance as required;
- g) notify the PHCC of any malfunctioning In-Pavement Electronic Guidance Systems 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;

- h) remove or cover graffiti in accordance with the *Highway Maintenance Specification – Litter collection and Graffiti Removal*;
- i) mark the replacement display units with the actual date of replacement at the time of replacement; and
- j) document all activities related to electrical maintenance of In-Pavement Electronic Guidance Systems including but not limited to field inspections, patrols, testing, complaints received / responses made, and all changes made to the equipment and operations immediately.

3.2 Additional Services

- Not applicable to this Electrical Maintenance Specification.

3.3 Materials

- Refer to the Introduction.