



# TECHNICAL BULLETIN

Ministry of Transportation

ENGINEERING BRANCH  
TRAFFIC, ELECTRICAL, HWY SAFETY AND  
GEOMETRIC STANDARDS. SECTION  
BULLETIN NUMBER: **TE-2005-02**

<b>Subject: Revisions to Electrical and Traffic Engineering Manual (December, 2003)</b>	
<b>Date:</b> March 31, 2005	<b>Author:</b> Ross Casey
<b>Bulletin Number:</b> TE-2005-02 <b>Bulletin Type:</b> Clarification	<b>Effective Date:</b> Immediately
<b>Distribution</b>	<b>Standards Affected</b>
All holders of the Electrical and Traffic Engineering Manual (December, 2003)	Electrical and Traffic Engineering Manual – Section 400, Section 500, Section 700, Appendices 400 & 500.

### Background:

In addition to Technical Bulletin TE-2004-2, the Ministry has revised or added the items noted below to reflect changes identified since the publishing of the Electrical and Traffic Engineering Manual, (December, 2003). The items are:

- 1.) Policy with regard to the installation of Countdown Pedestrian Signals
- 2.) Guidelines for S pole loading.
- 3.) Guidelines for use of service disconnect panels
- 4.) Replace the term "Model Space" with "Current Version" in Section 700.
- 5.) Revised Traffic Engineering Checklist.
- 6.) Traffic Signal Warrant sheets and Left Turn Warrant Calculation sheets
- 7.) Post Mounted Sign Loading Table

### Policy:

Effective immediately, the information and documents noted below supersede the previous versions and shall be utilized for all electrical designs as applicable.

### Procedure:

Manual holders shall replace redundant information in the Electrical and Traffic Engineering Manual (Dec 2003) with the following revised information;

- 1.) Policy with regard to the use of Countdown Pedestrian Signals



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Countdown Pedestrian Signals shall only be permitted if approved by the appropriate Regional Traffic Engineer and if all associated costs are borne by the requesting party. These costs include, but are not limited to, the cost of design, material purchase, installation, inspection and commissioning. All installations shall be undertaken by the Ministry or its contractors.

Countdown Pedestrian Signals shall be single module, countdown only style and shall meet all of the applicable design and operating requirements of Chapter 602 of the most recent version of the Ministry Electrical and Signing Material Standards Manual. Countdown Pedestrian Signals shall only be obtained from Ministry pre-approved suppliers.

2.) Guidelines for S pole loading. The Ministry hasn't revised the Pole Capacity Program to reflect S pole loading and deflection at this time. In the interim, the maximum loading permitted on type S poles shall be equal to that for type 6 and 7 poles unless calculations are submitted, demonstrating that greater loading can be handled. The submitted calculations must be signed and sealed by a qualified Professional Engineer registered in the Province of British Columbia. The maximum horizontal reach for a Type S pole shall be 10.5 m.

3.) Guidelines for use of service disconnect panels.

Service disconnect panels shall be used with overhead fed underground services in the following scenarios:

- when a traffic signal is fed from the service
- when the service connection point is over 100 m from the distribution panel
- when the service connection point is not in sight from the distribution panel.

Service disconnect panels shall be used with underground fed underground services when a traffic signal is fed from the service.

Designers shall receive written approval from the power utility company for the service configuration when confirming service locations. Designers shall be familiar with the requirements of BC Hydro and Power Authority Overhead Distribution Standards, where applicable.

4.) Section 700 – Drafting Standards

Sub clause 711.1.3 should be replaced with the following;  
All final drawing submissions are to be in AutoCAD format (Current Version)

5.) Traffic Engineering Checklist

The traffic engineering checklist dated January, 2003 shall be replaced with the version dated July, 2003 and inserted in Appendix 400.1.

6.) Traffic Signal Warrant sheets and Left Turn Warrant Calculation sheets.

The attached blank and sample traffic signal warrant and left turn warrant calculation sheets shall form part of Appendix 400.5...



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## 7.) Post Mounted Sign Loading Table

Post mounted sign loading shall be determined using the tables shown in attached Appendix 500.5

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