



**Section 900**  
**Construction**

Engineering Branch

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**900 CONSTRUCTION**

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# 901 CONSTRUCTION SERVICES

## 901.1 REVIEW AND INSPECTIONS

- .1 Construction services typically involve responding to design issues, some site review and the preparation of record drawings. Depending of the type of design and system services may also include:
  - .1 Review of shop drawings and product data sheets
  - .2 Inspection of materials
  - .3 Review of contractor progress payments and change order requests
  - .4 Respond to design questions and issues
- .2 The level of construction services provided by the consultant will vary depend on the type and complexity of contract. For simple electrical designs (ie; street lighting, flashers, etc) the work will be inspected by the Manager Electrical Service or their Electrical Maintenance Contractor. For more complex installation such as signals, the designer shall undertake a *Design Adherence Review* for conformance to the design as noted under *Sub-clause 901.1.5* below.
- .3 The consultant shall apply the level of effort to the *Design Adherence Review* they feel is required to achieve a design which meets their satisfaction.
- .4 The requirement for construction services will typically be defined in the RFP for Ministry Design Projects.
- .5 For projects involving signals or complex electrical systems as a minimum the designer shall undertake a *Design Adherence Review* to verify conformance to their design in accordance with *Section 500 - Signal Commissioning of the Ministry Traffic Controller Design Manual*. The level of review shall be such that the designer can give a level of assurance the signal will operate in accordance with their design. This review shall generally include:
  - .1 A general review of signal head visibility in accordance with TAC Standards
  - .2 Proper illumination
  - .3 Proper signing installed
  - .4 Suitable pedestrian access (including wheel chairs)

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- .5 Proper pavement markings in accordance with the design
- .6 The Electrical Maintenance Contractor under the direction of the Manager, Electrical Services will inspect the signal construction in detail as noted in *Section 500 - Signal Commissioning of the Ministry Traffic Controller Design Manual*.
- .7 Upon the completion of the *Design Adherence Review* the Signal Designer shall forward a list of deficiencies in accordance with *Section 500 - Signal Commissioning of the Ministry Traffic Controller Design Manual*.
- .8 A copy of the Electrical Maintenance Contractor's inspection report will be forwarded to the Engineer of Record by the Manager, Electrical Services.

### 901.2 RECORD DRAWINGS

- .1 Upon the completion of project the contractor shall provide the Manager, Electrical Services with a complete set of record drawings as noted in Section 200.