



# Iowa Department of Transportation

## SPECIAL PROVISIONS FOR ON-CALL CONTRACTING FOR HIGH TENSION CABLE GUARDRAIL REPAIR

Statewide  
IMN-000-S(501)0--0E-00

Effective Date  
October 18, 2011

THE STANDARD SPECIFICATIONS, SERIES 2009, ARE AMENDED BY THE FOLLOWING MODIFICATIONS AND ADDITIONS. THESE ARE SPECIAL PROVISIONS AND THEY SHALL PREVAIL OVER THOSE PUBLISHED IN THE STANDARD SPECIFICATIONS.

In addition to the requirements of Section 2505 of the Standard Specifications, the following will apply.

### **090152.01 DESCRIPTION.**

#### **A. General.**

This specification covers repair of median cable guardrail installations. Median cable guardrail installations are high-tension median cable guardrail. An installation is defined as a continuous length of cables located between two end anchors.

The contract documents will list county, route, begin and end milepost, manufacturer, and system type of each installation for work covered by this contract.

#### **B. Requests for Repair.**

Requests for repairs will be made by individuals who have been approved to authorize repairs. The Engineer will furnish the Contractor a list of individuals approved to initiate repairs. Requests for repairs will be initiated by either a fax or e-mail to the Contractor. Requests for repair will include the following: route number, milepost location, direction of travel, and number of posts to be replaced for each repair. Provide Engineer with an e-mail address and fax number which will be used to initiate requests for repairs.

### **090152.02 MATERIALS.**

Apply Article 2505.02 of the Standard Specifications.

### **090152.03 CONSTRUCTION.**

#### **A. General.**

Schedule repairs upon notification by the Engineer. Provide Engineer at least 24 hours notice of when proposed work will begin.

Routine repairs within a particular installation includes removal and replacement of damaged line posts and hardware, attaching cable(s) to line posts, and checking tension of cable(s). If tension of cable(s) falls outside manufacturer's recommended limits, re-tension cable(s) to within recommended limits. Notify Engineer if non-routine repairs are needed. Approval of non-routine repairs shall have Engineer's approval before repair work may begin.

Remove and dispose of damaged materials. Leave work site in a safe and orderly condition at completion of work.

Maintain a log of repairs. Provide Engineer a copy of log upon request. Log shall include:

- Date and time of notification by Engineer to perform repairs,
- Department personnel requesting repair,
- Route number,
- Milepost location of requested repair,
- Direction of travel,
- Date and time repairs were completed,
- Number of posts which required cables to be reattached,
- Number of replacement posts installed,
- Cable tension measurements taken after each repair, or as part of annual tension check, and
- Cable tension measurements taken after each re-tensioning, as applicable.

Repairs may be performed either without a lane closure; or with a lane closure except for periods listed in the contract documents. Remove lane closures following completion of work. Traffic control for lane closures and shoulder closures shall be according to the Standard Road Plans included in the contract documents.

**B. Annual Checking of Cable Tension.**

Check tension of all cables within each installation once during the contract between April 1 and May 31. Check tension according to manufacturer's recommendations. Re-tension any cable whose tension falls outside manufacturer's recommendations.

**090152.04 METHOD OF MEASUREMENT.**

**A. Posts, Cable Repaired.**

By count.

**B. Mobilization, On-Call.**

By count.

**C. Cable, Re-tension.**

By count.

**090152.05 BASIS OF PAYMENT.**

Article 1109.16, C, 4, b, of the Standard Specifications will not apply to items on this contract.

**A. Posts, Cable Repaired.**

Per line post. Payment is full compensation for reattaching cable to line post. Routine work, placement of cable on post, disposal of damaged materials, vegetation removal, snow removal, traffic control, and site cleanup are incidental to item.

**B. Mobilization, On-Call.**

Each. One payment of \$3000 per notification regardless of number of repair locations included. Mobilization payment will not be made for annual checking of cable tension.

Liquated Damages of \$500 per calendar day will be assessed for each calendar day repair is not completed if repair is not completed within 14 calendar days following notification by the Engineer.

**C. Cable, Re-tension.**

Each. Payment is full compensation for re-tensioning each cable out of tolerance according to the manufacturer's recommendations. Individual cables checked, but not requiring re-tensioning will not be counted for payment. Checking tension of cables is incidental to the item.

**D. Non-Routine Repairs.**

Paid for according to Article 1109.03 of the Standard Specifications. May include, but not limited to the following: replacing line post foundations, reattaching end anchors, replacing end anchors, and repairing cable.