

**KANSAS DEPARTMENT OF TRANSPORTATION
SPECIAL PROVISION TO THE
STANDARD SPECIFICATIONS, EDITION 2007**

SECTION 814

ELECTRIC LIGHTING SYSTEMS AND TRAFFIC SIGNALS

Page 800-37, add the following to the end of subsection 814.3f.:

(4) All Structures.

- Do not use a pipe wrench to tighten nuts on High Mast Light Tower structures;
- Use only a box end or socket wrench to snug tighten nuts;
- Maintain a minimum dimension of 6 inches from the top of foundation to finished grade;
- Repair any marring of the galvanizing caused while lifting the structure into place;
- Submit specifications for the hydraulic wrench to the Construction Engineer (who will contact the Signing and Lighting Engineer) for approval; and
- If the four refusal maximum is exceeded on any DTI, discontinue tightening and contact the State Bridge Office;
- Grade the area surrounding the tower to drain away from the tower.

(5) Existing High Mast Light Towers. Verify the existing anchors will extend a minimum of one thread above the top tightened nut in the final condition. Do not damage the existing anchors during the removal of the existing hardware. Clean the threads of all rust and lubricate with an approved wax, prior to placing the new hardware.

Install DTIs on each anchor. Install a hardened washer on each anchor, if required. Use new hardware galvanized according to **SECTION 1616**. Verify the assembly (leveling nut, hardened washer(s), tower base plate, DTI, top nut) is in a snug tight condition before final tightening begins. Using the approved hydraulic wrench, tighten each nut to achieve a minimum of three refusals of the 0.005 gauge. Do not exceed four refusals of the 0.005 gauge. After tightening, score the remaining threads.

(6) New High Mast Light Towers. Construct the elements of the structure according to the Contract Documents. Threads of the anchors shall be plumb and free of any construction debris.

Install DTIs on each anchor. Install a hardened washer on each anchor, if required. Use hardware galvanized according to **SECTION 1616**. Verify the assembly (leveling nut, hardened washer(s), tower base plate, DTI, top nut) is in a snug tight condition before final tightening begins. Using the approved hydraulic wrench tighten each nut to achieve a minimum of three refusals of the 0.005 gauge. Do not exceed four refusals of the 0.005 gauge. After tightening, score the remaining threads.

Page 800-39, subsection 814.4. Replace the second paragraph with the following:

Excavation, removal, backfilling and Grade 3.0 concrete are subsidiary.