

Cellular Tower Construction and Installation/Replacement of Antennas

This guideline has been developed to assist you in your efforts to construct a cellular tower or to install/replace cellular antennas. Prior to erecting any structure or replacing/installing cellular antennas on an existing structure, a permit must be obtained from the City of Rock Island Inspection Division. Provided below is information that addresses what needs to be submitted to the City, pertinent building codes, permit fees and required inspections. These guidelines are by no means all inclusive, but they do identify the most critical requirements that are involved in this type of project. Please review this information and contact the City of Rock Island Inspection Division with questions.

Associated Documents

- Application for permit
- Contractor Registration
- Fee Schedules

Required Submittals

Contractor Registrations

All Contractors must be registered with the City of Rock Island before they pull may pull a permit. Please click the links below to access the required information and forms on our Web site.

1. Electrical Contractor: <http://www.rigov.org/index.aspx?NID=708>
2. General Contractor: <http://www.rigov.org/index.aspx?nid=706>

Requirements specific to scope of work. See examples below:

A. Existing cell phone equipment in place. Install new antennae(s).

1. A completed Electrical Permit Application: <http://www.rigov.org/DocumentView.aspx?DID=1547> to be pulled by a City of Rock Island registered Electrical Contractor.
2. Check for Permit Fees and Plan Review Fees. For All Non-Residential the Electrical Permit fee is as follows: *\$55.00 application fee plus 0.55 percent of total value of material and labor, (multiply value by 0.0055 and add \$55.00)*
3. A complete structural analysis indicating the capacity for future and existing antennas connections (sealed by a Licensed State of Illinois Structural Engineer).

B. Existing cell phone equipments and equipment shelter in place. Replace antennae(s).

1. A completed Electrical Permit Application: <http://www.rigov.org/DocumentView.aspx?DID=1547> to be pulled by a City of Rock Island registered Electrical Contractor.
2. Check for Permit Fees and Plan Review Fees. For Non-Residential the Electrical Permit fee is as follows: *\$55.00 application fee plus 0.55 percent of total value of material and labor, (multiply value by 0.0055 and add \$55.00)*
3. A complete structural analysis indicating the capacity for future and existing antennas connections (sealed by a Licensed State of Illinois Structural Engineer).

C. New cell tower and/or new equipment shelter, landscaping, and fencing.

1. A completed New Construction Permit:
<http://www.rigov.org/DocumentView.aspx?DID=1548> to be pulled by a City of Rock Island registered General Contractor.
2. A completed Electrical Permit Application:
<http://www.rigov.org/DocumentView.aspx?DID=1547> to be pulled by a City of Rock Island registered Electrical Contractor.
4. Check for Permit Fees and Plan Review Fees
 - New Construction/Building Permit Fees: :
<http://www.rigov.org/DocumentView.aspx?DID=944>
 - Electrical Permit Fees for Non-Residential the fee is as follows:
\$55.00 application fee plus 0.55 percent of total value of material and labor, (multiply value by 0.0055 and add \$55.00)
3. Zoning approval (309.732.2900)
4. Site Plan showing proposed tower and equipment shelters. Plan must show location of all structures on the subject parcel and structures on adjacent parcels.
5. Complete structural, architectural, and electrical drawings (sealed by a Licensed State of Illinois Structural Engineer) – two copies:
 - A description of the tower height and design, including a cross section and elevation
 - Footing, foundation and wind speed details
 - Information documenting the height above grade for all potential mounting positions for all collation of equipment and the minimum recommended separation distances between wireless telecommunication service antennas.
 - A structural analysis indicating the capacity for future and existing antennas, including a geotechnical report and calculations for the foundations capacity.
 - A structural analysis on all antenna connections

Minimum Inspections Required

- Footing inspections /Rebar Inspections for tower and aerial wire anchors and for equipment building foundations
- Rough electrical inspections
- Final building and electrical inspections for compound, tower, buildings and equipment.