



100 AMP RESIDENTIAL ELECTRIC SERVICE

Permit Submittal:

- **Permit application.** Include estimated cost of construction, electrician, their contact information and copy of their license, if applicable.
- **Contractor's Proposal/Scope of Work.**
- **Fees.** If applying in person, due at the time of application. If applying online, the city will contact you when your permit is ready. Payment can be made online or in person. Cash, check, or credit/debit cards are accepted.
- Permit will be issued within 24 hours of submittal if requirements are met.

Construction Requirements:

- Use of non-metallic sheathed wiring is prohibited.
- Two ground rods located a minimum of 6 feet apart from each other are required on all electrical services.
- The continuous grounding electrode conductor at the rods shall be a minimum #8 copper and be installed in conduit to protect wire from physical damage. Note: A #6 copper electrode conductor, not installed in conduit, may be used in place of the #8 copper electrode.
- The grounding electrode conductor at the water meter shall be a minimum #8 copper and shall connect to the street side of the water meter. A jumper wire is required across the meter and the electrode must be provided with a tag identifying it as a grounding electrode.
- The service entrance conductors shall be a minimum #4 copper.
- All conductors must be identified properly.
- Please contact the Community Development Department for required burial depths of underground conductors.

Inspections:

- 24-hour notice is required when scheduling inspections. Call 815-363-2170 to schedule.
- See 200 Amp
- Inspections are schedule Monday-Friday, 9am – noon or 1pm - 4pm.
 - Underground electrical (if applicable)
 - Rough electrical (before energizing panel)
 - Final Inspection (panel to be open at time of inspection)

Please note the information provided in this handout is general in nature. If you have specific questions or need additional information, please contact a Community Development Department representative at (815) 363-2170 or ced@cityofmchenry.org

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- Two ground rods located a minimum of 6 feet apart from each other are required on all electrical services.
- The continuous grounding electrode conductor at the rods shall be a minimum #6 copper.
- The grounding electrode conductor shall be minimum #4 copper and connect to the street side of the water meter.
- A jumper wire is required across the meter and the electrode must be provided with a tag identifying it as a grounding electrode.
- The service entrance conductors shall be a minimum 2/0 copper.
- All conductors must be properly identified.
- Please contact the Community Development Department for required burial depths of underground conductors.

Inspections:

- 24-hour notice is required when scheduling inspections. Call 815-363-2170 to schedule.
- Inspections are schedule Monday-Friday, 9am – noon or 1pm - 4pm.
- Electrician of record must be on site at time of inspection.
 - Underground electrical (if applicable)
 - Rough electrical (before energizing panel)
 - Final Inspection (panel to be open at time of inspection)

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