704.00 CONSTRUCTION POWER

1. Construction power is available for site trailers and model homes when LPC has completed the construction efforts and approval of temporary use applications has been completed by the City. All electric services require a building permit and inspection by Building Inspections.

705.00 SERVICE LINES SIZES AND INSTALLATION

1. For single family residential services, 200 amps or less, the Developer, Builder or Assignee installs underground low voltage service lines from specific electric utility ground sleeves (junction box) to the permanent meter location. The installation must meet the National Electric Code and City of Longmont Standards and be approved by the Building Inspections Division. The bottom of the trench must be smooth and continuous. Where soil conditions require, the Contractor may be required to provide bedding material. The trench must remain open and accessible until inspected. The service cable must be installed in a two-inch PVC conduit utilizing sweeps with a minimum bending radius of 24 inches. A one year warranty (measured from the date of the Certificate of Occupancy) on compaction, conduit, cable and meter housing installation shall be provided.

2. Residential services greater than 200 amps; the installation, ownership and maintenance of conductors and metering equipment beyond LPC's point of delivery are the property owner's responsibility. The point of delivery is dependant upon sight conditions and may defined as:

    a. Electric transformer
    b. Low voltage ground sleeve
    c. Overhead attachment point on customer owned structure

3. It is the Developer or Builder's responsibility to restore compaction when entering into LPC equipment locations. When the final meter is installed, LPC staff will inspect the facilities, install extension risers on the energized equipment as necessary to meet final grades and report compaction problems from the low voltage service line installation. LPC will advise the Developer or Builder of the required corrections. Repairs must be corrected prior to the Certificate of Occupancy or items deemed a safety issue must be corrected within 10 working days. Charges to the Developer or Builder for work completed by LPC to correct damages, grade or compaction issues are due within 30 days.

4. Prior to the conclusion of the warranty period, the City will inspect the service installation. If compaction or elevation deficiencies are found at LPC's energized equipment, those repairs will be completed by LPC. If deficiencies are found in the service equipment originally installed by a private electrician, the builder listed on the permit will be notified and given the option to make the repairs or request LPC to make the repairs at the builder's expense. Items must be corrected and LPC notified within 30 days. Following the inspection or satisfactory completion of the repairs, the City will accept ownership and maintenance of the secondary cable service to the line side of the meter housing.

5. Multi-family and commercial development service lines are installed, owned and maintained by the customer. They must meet the National Electric Code and be approved by the

Building Inspections Division. The customer will install cable of sufficient length for termination.

6. In multi-family or commercial developments where more than two service lines are installed out of a transformer or junction facility, the use of heat shrink tubing is required to identify the low voltage conductors. Each service line requires heat shrink tubing with a color that is unique to the unit it serves at both the meter housing and the electric source. The heat shrink tubing is not provided by the City. Reference details.

7. All connections to underground City-owned facilities will be made by City personnel after approval by the Building Inspections Division.

706.00 METERING REQUIREMENTS

1. Meter housings for all types of services shall be located on the outside of the building or structure and accessible to meter readers as referenced in LPC *Rates and Regulations Governing Electric Service*. Single meters shall be installed at a height of five feet, six inches above ground or platform to the center of the meter and shall not be fenced in. Meter banks shall be installed with the lowest meter at least 24 inches above the ground or platform and the highest meter is not to be over seven feet above the ground or platform. Reference the APPROVED MATERIAL LIST for specific metering requirements.

2. Meter housings for irrigation controllers, site entryways or any other private use may be installed on fencing, unistrut or cedar posts. The meter housing shall have a brass tag as outlined below. The maintenance of the structure is not the responsibility of the City.

3. Electrical services requiring more than 400 amps single phase 120/240 or 200 three phase voltage are required to obtain meter housings, current transformers and voltage transformers at Longmont Power & Communications, 1100 South Sherman Street. The customer will be charged for this material.

4. General construction shall provide protection against accidental contact with energized elements of the meter and socket. It shall provide protection to the electrical components against environmental and weather conditions.

5. Refer to the Approved Materials list and detail drawings for specific metering requirements.

6. Residential subdivisions and new residential, single service

    a. Meters rated 200 amps or less shall be in direct line of sight with the low voltage ground sleeve, (utility junction box) and shall not be fenced in. Reference details.
    b. Meters shall be installed on the front quarter of the house; electric meter housings not installed on the front one-quarter of the house or fenced in will require the installation of a remote read technology meter at the builder or homeowner’s expense.

    c. Residential services greater than 200 amps are installed and maintained by the property owner.

7. Single phase services – greater than 400 amps 120/240 and 225 amps 120/208

    a. Current transformer cabinet will be supplied and installed by the customer. The minimum dimensions shall be 24 inches x 24 inches x 10 inches, NEMA rated. Minimum distance from floor or ground shall be 24 inches to the bottom of the cabinet. Maximum distance from floor or ground to the top of the cabinet shall be eight feet.

    b. Conduit from current transformer cabinets and meter housings shall be a minimum of one inch, shall not exceed 50 feet in length, shall not exceed a total of 360 degrees bending radius and shall not be accessible by means of splicing and pulling boxes. All meter wiring in meter housings and CT housings will be provided and installed by LPC.

8. Commercial

    a. Services 200 amps or less will only be allowed when the meter is cold sequenced with a sealable disconnect on the line side of the meter that will be sealed by LPC.

    b. Current transformer cabinets, NEMA rated, will be supplied and installed by the customer. Minimum distance from the floor or the ground shall be 24 inches to the bottom of the cabinet. Maximum distance from the floor or ground to the top of the cabinet shall be 8 feet.

        The minimum cabinet dimensions shall be

        - 24 inches x 24 inches x 10 inches for services 1000 amps or less208 volts
        - 24 inches x 24 inches x 12 inches for services greater than 1000 amps 208 volts
        - 36 inches x 36 inches x 10 inches for services 1000 amps or less 480 volts
        - 36 inches x 36 inches x 12 inches for services greater than 1000 amps 480 volts

    c. Services at 1000 amp 277/480 volt or 2000 amp 120/208 volt and greater require a dedicated single pair analog phone line for each meter. Provide a conduit a minimum of one-half inch into or within 24 inches of the meter housing, as shown in the detail. For questions regarding the phone line, please call 303-651-8386.

    d. As requested by the customer, LPC will install a pulse-initiating device on a customer's existing meter socket for an additional fee. The City will install wiring from the meter socket to the terminal block. LPC's responsibility and liability ends at the line side of the terminal block.

9. Marking of single commercial and multiple meter sockets are the electrical contractor's responsibility. Each meter of a multiple meter socket and all individual meter sockets will have a permanent brass tag showing which apartment, office, or room is metered by each meter. Brass tag requirements are as follows:

    a. The tag will be round and a minimum of one inch in diameter;

    b. The tag will have a three-sixteenths inch diameter hole near the edge; and

c. Letters and numbers must be a stamped impression in the tag and must be at least three-sixteenths inch in height.

10. Meters will not be installed until all sockets are tagged correctly with stamped brass badges. When internal number and/or lettering schemes are changed or incorrect tagging creates inaccurate information in the City's records, the Developer or Owner will be responsible for actual labor, equipment and material charges incurred by LPC to correct the situation.

11. All exceptions to the metering specifications must be approved by the LPC Meter staff at 303-651-8386.