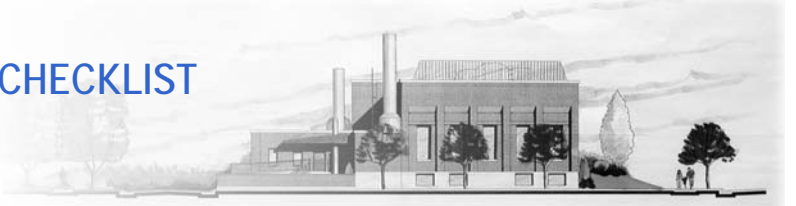
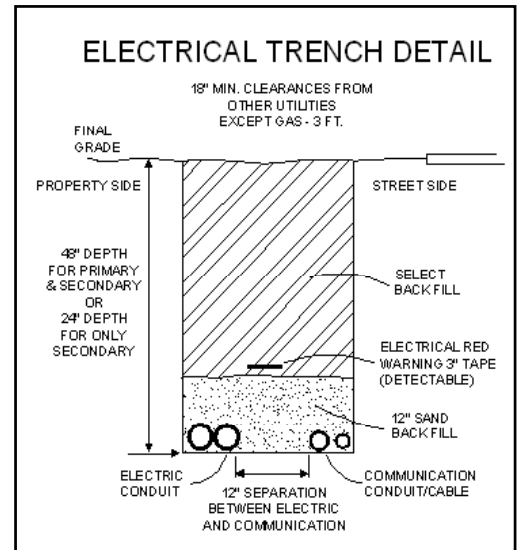


# RESIDENTIAL UNDERGROUND SERVICE CHECKLIST



## TRENCHING SPECIFICATIONS

- All residential development trenches must be between 1-4 feet behind property line to avoid removal of property stakes.
- All Primary trenches must be 48" deep.
- All Secondary trenches must be 24" deep. If the Secondary is run with Primary, the trench depth must be 48" deep.
- It is important that road crossings be placed correctly (site plans are exaggerated to make them easier to read. They only show the approximate location of equipment). Please contact Logan City Light and Power before placement.
- One foot of sand must be placed on top of conduit followed by 3" wide, Red, Detectable-Foil, Electrical Warning Tape (5 mils thickness).
- Warning Tape to be tied together to form a continuous length, and extending 36" above finish grade by all conduit stubs.
- All trenches MUST be inspected prior to backfilling.
- Trenches should be spot backfilled to prevent movement of tape during backfill.
- Select backfill must be compacted in 1 foot lifts to prevent settling.
- All backfill covering conduit must be brought up to finish grade.
- All areas disturbed by excavation and backfilling construction shall be restored to its original condition, or better by the contractor.



## CONDUIT SPECIFICATIONS

- Conduit sizes: Check site plans or contact Logan City Light and Power concerning conduit diameter.
- Elbows can be either PVC sch 40 or rigid steel. All 4" primary elbows MUST have a radius of 36". All 3" primary vertical sweeps MUST have a 24" radius, and horizontal sweeps MUST have a 36" radius.
- If steel elbows are used, they must be taped with anti-corrosion tape or have a plastic coating.
- Continuous lengths of conduit can only have a maximum of four 90-elbows per wire.
- All electrical conduits will be laid on the property side of the trench.
- Phone and Cable can be placed in the same trench, but MUST be placed on the roadside with 12" of parallel, horizontal separation along the electrical conduit. Communication will be placed at the same depth and must be inspected prior to backfilling to ensure appropriate placement.
- All future residential service connections will be stubbed out 10' past the electrical boxes or transformers with gray, PVC, sch 40 conduit. The size of conduit will be determined by Logan City Light and Power and is based on the service size.
- Each conduit stubbed out will be marked with the appropriate size conduit.
- Overhead to underground: Contractor will supply one stick (10') of rigid conduit extending from finish grade up the riser pole. Logan City Light and Power will supply the appropriate standoffs to be used to attach the first stick of rigid conduit to the pole.

# RESIDENTIAL UNDERGROUND SERVICE CHECKLIST

## TRANSFORMER SLEEVE SPECIFICATIONS

- Transformers will be placed one foot behind sidewalk and centered 3' from dividing lot lines. Power equipment will normally be placed on the side of the lot line opposite other utilities.
- Conduits rising into transformer pads must be able to fit into a 24" x 12" opening.
- Primary conduit are ALWAYS on the left and secondary conduit are on the right, when facing the Transformer.
- The primary and secondary conduits MUST be grouped into two separate bundles.
- A level, compacted, sand base MUST be provided to set the transformer sleeve. All sleeves MUST sit level with 6" of sleeve extending above top back of curb. Inside grade of pad will be level with bottom of sleeve and conduits MUST be cut off 2" above inside grade. If the transformer settles or is set at the wrong elevation, the developer will be charged to have the transformer base reset.
- Logan City Light and Power will provide a ground rod to be placed by the contractor in between the primary and secondary conduit stubs.
- See transformer sleeve detail sheet for specific installation requirements.

## SECONDARY BOX SPECIFICATIONS

- Secondary Boxes will be placed one foot behind sidewalk and centered 3' from dividing lot lines. Power equipment will normally be placed on the side of the lot line opposite other utilities.
- Conduits will be stubbed up, bundled tight together, with a sand base compacted to final grade around conduit. Cut conduit off 6" above final grade.

## SECTIONALIZER SPECIFICATIONS

- Sectionalizers will be placed one foot behind sidewalk and facing hard paved surface. Contact Logan City Light and Power for exact placement.
- Conduits rising into a sectionalizer must be staggered, centered and grouped together to fit into a 36" x 12" opening for Three Phase and a 20" x 12" opening for Single Phase.
- Ground Sleeves will be set similar to the Transformer Sleeves.
- Logan City Light and Power will provide a ground rod to be placed 6" from the conduits stubbed into the sectionalizers by the contractor.

## UNDERGROUND SECONDARY SPECIFICATIONS

- Contractor is responsible for extending the conduit from the power source to the meter equipment. Contact Logan City Light and Power for further details.
- Contractor is responsible for providing the conduit and weather head for connecting to existing overhead power lines. The Contractor is to install the first stick of rigid conduit. Logan City Light and Power will install the remaining equipment on the pole.

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