



4 Municipal Way
Wellesley, MA 02481
Phone: 781-235-7600 ~ Fax: 781-237-0160
Monday-Friday 7:00 AM-3:00 PM

WMLP ELECTRIC TRENCH POLICY

Conduit installed underground shall be four (4) inch PVC Schedule 40, gray, UL listed electric conduit. The customer shall be responsible for purchase and installation. The trench and the installed conduit must be inspected and approved by the WMLP before the trench is backfilled. There will be no exceptions unless approved by the WMLP.

Trench inspections must be scheduled Monday – Friday between the hours of 7:00AM and 3:00 PM. **Note: twenty-four (24) hour notice is required to schedule a trench inspection.**

The conduit shall be a continuous run from the building foundation to a manhole or utility pole.

- **Utility pole** - When the conduit is to terminate at a utility pole, the WMLP will supply five (5) feet of four (4) inch flexible conduit which must be picked up by the contractor at 4 Municipal Way. The conduit shall be butted up to the base of the pole at a location marked by the WMLP staff. The flexible conduit shall be installed such that it terminates four (4) inches above finished grade and sweeps away from the pole similar to a twenty-four (24) inch radius sweep and connects, with an approved connector, to the four (4) inch PVC Schedule 40, Gray, UL Listed Electric conduit.
- **Manhole** – Contractors/individuals should not attempt to remove a manhole cover or enter a manhole. In addition, contractors should never attempt to break into the wall of a manhole as this may result in serious injury or death. WMLP employees are the only individuals authorized to enter an electrical manhole. It is the contractor's responsibility to provide the WMLP at least three business days notice to have a WMLP construction crew available to assist the contractor in terminating the conduit.
- **Building** - Where the conduit terminates at the building, the contractor shall supply a four inch PVC Schedule 40, Gray, UL Listed Electric conduit sweep with a minimum bend radius of twenty four (24) inches. The conduit shall terminate four (4) inches above finished grade on the outside of the foundation at a location determined by the WMLP staff. If a conduit reducer is required it must be installed **after** the WMLP installs the cable.

One continuous (no splices) piece of nylon or poly rope pull line which measures three sixteenth (3/16) inch or greater with at least three (3) feet excess at both ends of the sweeps is required. Conduits are to be capped or taped at each end of the conduit to prevent dirt from entering the conduit.

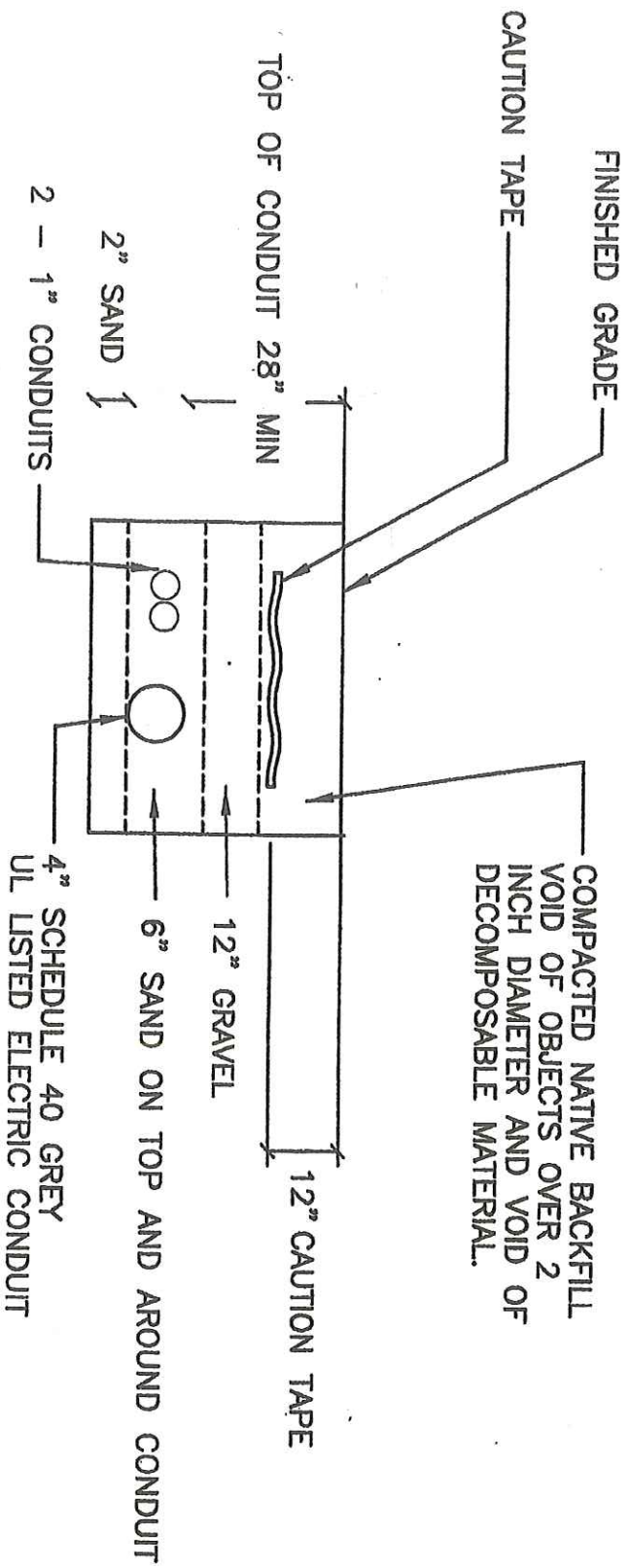
The conduit shall be installed at a minimum depth of twenty-eight (28) inches below finished grade. The conduit run shall be as straight as possible, with no bends except for the flex 90° at the utility pole and solid 90° at the building. The Superintendent, Line Supervisor or Supervisory Electrical Engineer are the only ones authorized to approve any combination of bends greater than 180°. All conduit must be glued.

Under certain circumstances the WMLP will require the conduit to be encased in concrete. Any electric conduit not meeting the minimum of twenty eight (28) inches must be encased in a concrete envelope. There will be no exceptions unless permitted by the Superintendent, Line Supervisor or Supervisory Electrical Engineer.

ALL TRENCHES will have a base of two (2) inches of sand before conduit is installed. Once inspected, the conduit will be encased in an additional six (6) inches of sand. One (1) foot of gravel must be placed on top of the sand before placing caution tape down on the length of the trench. No rocks larger than a baseball will be allowed in the electrical conduit trench.

Two communication conduits one (1) inch in diameter must also be installed next to the electrical conduit.

The Trench Inspection Report will be signed off as complete once all of these requirements are met.



NOTE:

1. SAFETY WARNING TAPE REQUIRED 12" ABOVE CONDUITS.
2. INSTALL 1 - 4" & 2-1" PVC SCHEDULE 40 GREY UL LISTED ELECTRICAL CONDUITS.
3. CONDUIT NOT MEETING 28" MINIMUM WILL NEED TO BE ENCASED IN 3" CONCRETE ENVELOPE.

HOUSE SERVICE
CONDUIT DETAIL
NTS