



## **CONDUIT GUIDE**

Homes or Buildings with underground or mixed (aerial and underground) drops will require usable conduits to be verified by the owner prior to installation. In the following pages, you will find essential information on verifying, installing, and preparing your conduits for installation.

For underground or mixed drops:

1. We cannot use conduit that carries electrical service. We can use existing conduit that carries a telephone line, but it must be sufficiently large, Schedule 40 Electrical type material, clear of breaks in the conduit, and with a usable pull string.
2. New drops that are entirely underground and require new conduit, conduit must be prepared prior to your fiber installation may be scheduled.
3. If you intend to install new conduit yourself, or by hiring a local contractor, please be sure to call DIG SAFE (811) before beginning any underground work.

For more information, including a list of local contractors please contact the Petersham MLP

**[petershambroadband@gmail.com](mailto:petershambroadband@gmail.com)**



## NEW CONDUIT INSTALLATION GUIDE

Please review this information with your hired contractor.

1. Call DIGSAFE (811) before doing any digging. They will mark phone/electric paths for free.
2. Conduit should go from your utility feeding pole to the place on your house where telephone and power enter. If you are unsure which is your feed pole please contact the Petersham Broadband MLP: **petershambroadband@gmail.com**
3. Conduits should be buried at a depth in accordance with the local building codes (generally 12"-24" deep). Be careful to avoid septic/well/ledge/sprinkler lines, etc.
4. Conduit material should be "schedule 40 electrical" or "SDR 13.5 HDPE"
5. Conduits should be at least 2" diameter
6. Conduits should be installed with a 210 lb. tensile strength pull string.
7. Any bends/turns along the conduit route should use sweeps instead of elbows
8. Extremely long runs should be separated by pull stations every 500 ft.
9. If it is necessary to connect two sections of conduit take extra care to avoid gluing the pull string to the interior walls of the conduit.
10. Allow 2 feet of conduit projecting out of the ground at the utility pole and at the location where you want us to install our enclosure (similar to a telephone box) on the outside of the building.
11. Tie the pull string around the exterior of the conduit and place a cap (or tape) over the ends of the conduit to prevent water from entering the conduits.



### **UNDERGROUND CONDUIT INFORMATION**

**The vast majority (90%) of Broadband connections will be made aurally and no preparation work needs to be done by the homeowner.**

For the approximately 40 customers getting their communication services via underground conduit;

Matrix does not do pre-connection conduit inspections and it is the responsibility of the homeowner to make sure that their underground conduit is ready for fiber installation. The Matrix "Conduit Guide" is available at the Town Office.

For those people needing to install new underground conduit piping in order to be ready for the Matrix installation teams, the following is a list of some local installers.

This is merely an informal local vendor list, and does not constitute a recommendation. Residents are free to do the work themselves or have it done by any contractor of their choosing.

(978)464-5124- The Irrigation Company (Princeton)

- (774) 696 1204 - Callahan & Montalto Site Construction (Holden)
- (508) 667-3150 - Homepromass Contracting (Worcester)
- (508) 756-5020 Paldino Bros Co inc (Worcester)

(978) 630-4596 Central Irrigation Company (Gardner)

