



CONDUIT INSTALLATION CRITERIA FOR ELECTRIC SERVICES CUSTOMER-INSTALLED CONDUIT

A. NONCONFORMANCE

Nonconformance to the requirements below can result in delays and additional charges from Consumers Energy. Consumers Energy cannot guarantee an immediate turnaround if work is discontinued.

B. COST

Type of Service	Service Cost Without Conduit	Service Cost Without Conduit	Service Cost With Customer Installed Conduit
Residential Secondary Service (New Service Only)	0-150 Feet: \$350.00	In Excess of 150 Feet: \$350.00 + \$4.50 per foot	\$1.85 per foot*
General Secondary Service (New Service Only)	\$6.50 per foot		\$3.85 per foot*
Existing Service and Relocations of Services/Primary Extension	To be calculated by Consumers Energy	To be calculated by Consumers Energy	To be calculated by Consumers Energy

*The reduced service cost with customer installed conduit only applies when the entire length of service on the customer's property will be in duct.

C. SCOPE

- Option for customer to dig trench, supply and install conduit and backfill trench on their property only.
- Customer responsible for lawn and landscape restoration in all cases.
- Normally available only for electric secondary services. May use for primary cables if approved by Consumers Energy.
- Conduit riser under meter to be installed by the customer. Riser on pole and cable will be provided and installed by Consumers Energy.
- Not available for services joint with gas, sewer and water.
- MISS DIG 811 (811, 248-370-6400 or 800-482-7171) must be notified 3 working days prior to any trenching.

D. CONDUIT

- Conduit must be Schedule 40 or Schedule 80 PVC gray electrical conduit (UL Listed). See chart below for proper conduit size.
- Any bend or angle in the conduit must be with a long radius elbow with a sweep of at least 36" radius. Short radius elbows are not allowed.
- No more than two bends allowed along conduit run.
- A continuous nylon cord or line (1/4" or larger) must be inserted in the conduit to allow us to pull a cable-pulling rope through the conduit.
- Route of the conduit must be reviewed and approved by Consumers Energy. Conduit must not exceed 200' in length without prior authorization.
- Conduit should end 3'-4' from Consumers Energy facilities (pole, padmount transformer or pedestal) and the end must be sealed. Service riser end should be contiguous conduit with a 36" radius sweep and slip/frost sleeve on service riser to prevent meter socket damage due to settling. Where the power originates (pole, padmount transformer or pedestal), trench end shall be left open, barricaded and adequately protected. Trench end at the meter socket shall be backfilled and tamped beneath the conduit to prevent conduit settling.
- The size of the conduit will be specified by Consumers Energy and confirm as a minimum to the following:

SECONDARY

Residential Service	General Service
3" for up to 3 conductor - #1/0, #3/0, 350 kcmil	3" for up to 4 conductor - #1/0, #3/0, 350 kcmil
	5" for up to 4 conductor - 750 kcmil
	5" for parallel 3 or 4 conductor - #1/0, #3/0
	6" for parallel 350 kcmil, 750 kcmil

PRIMARY

General Service	
3" for single phase - 1/0	6" for up to three phase - 1/0, 350 kcmil, 750 kcmil, 1000 kcmil

E. DEPTH

- On primary spans, the conduit burial depth must be 30" minimum to 48" maximum measured from final grade.
- On secondary or services, the conduit burial depth must be 24" minimum to 48" maximum measured from final grade.

F. ROUTE

- Service route and placement of conduits must be reviewed and approved by Consumers Energy.
- Route cannot encroach on distribution trench with gas or electric primary.

ATTACHMENT "A"

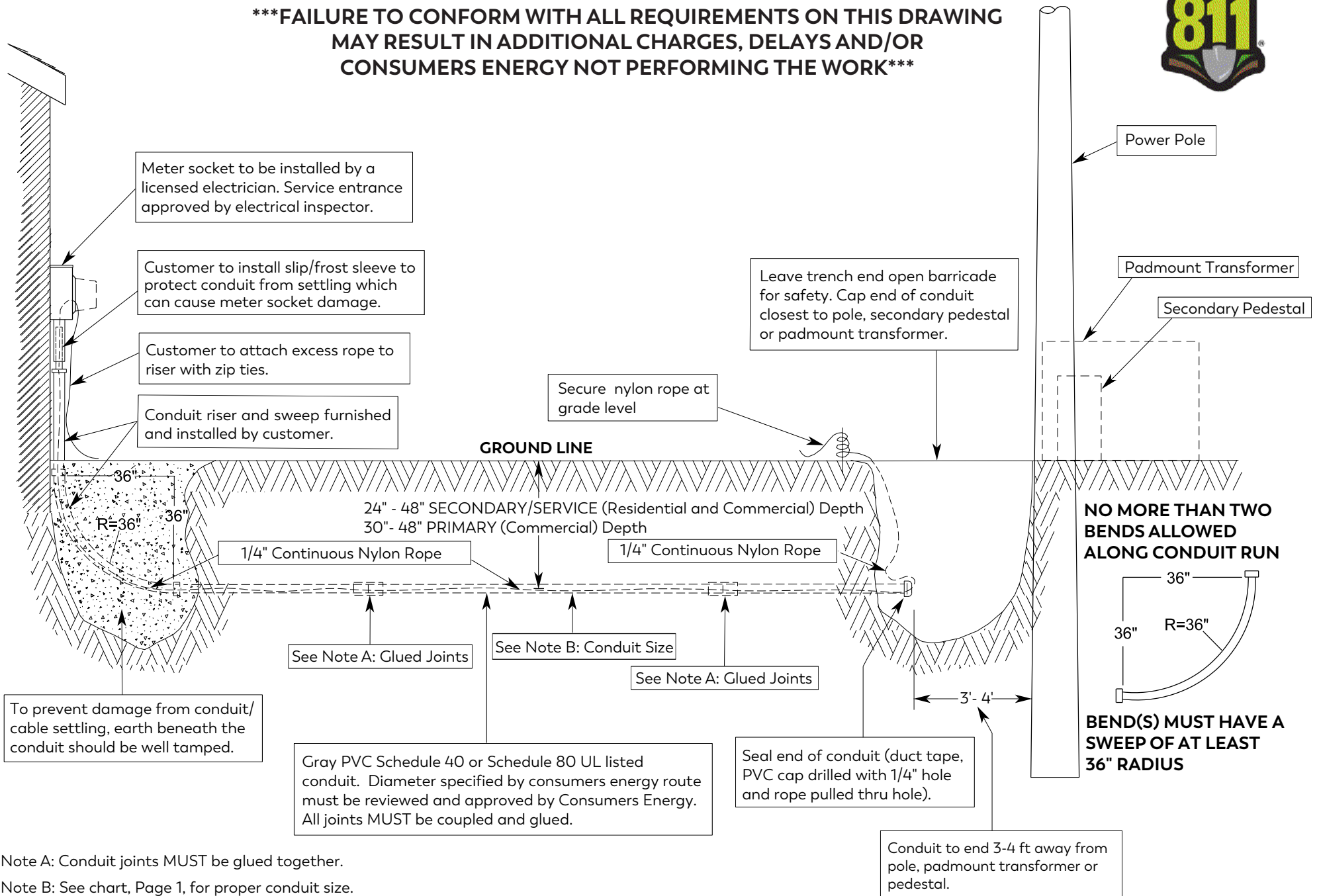
PREBURIED CONDUIT INSTALLATION CRITERIA

MISS DIG System, Inc.

800-482-7171 or 248-370-6400



*****FAILURE TO CONFORM WITH ALL REQUIREMENTS ON THIS DRAWING MAY RESULT IN ADDITIONAL CHARGES, DELAYS AND/OR CONSUMERS ENERGY NOT PERFORMING THE WORK*****



Note A: Conduit joints MUST be glued together.

Note B: See chart, Page 1, for proper conduit size.