

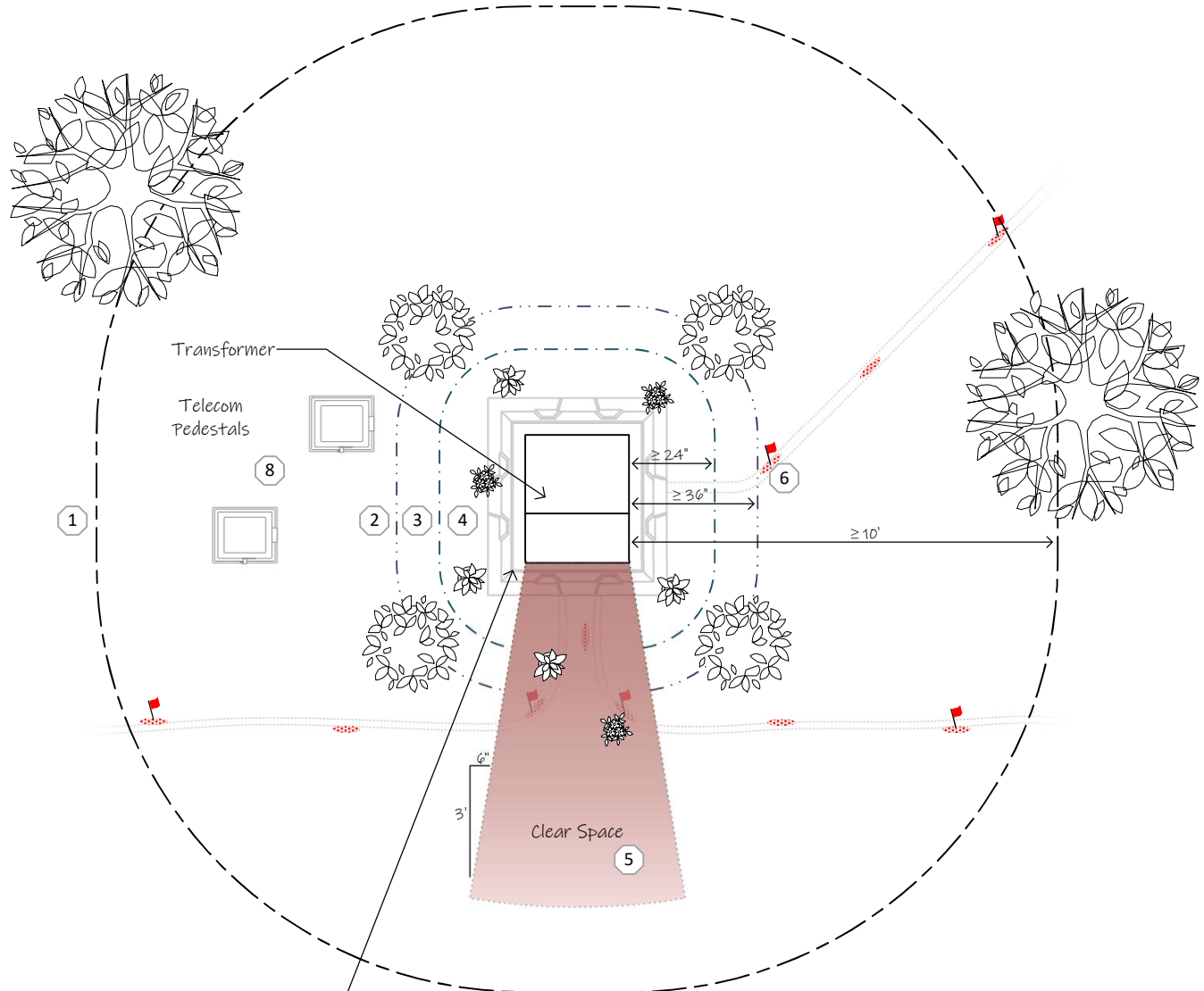


Underground Specifications

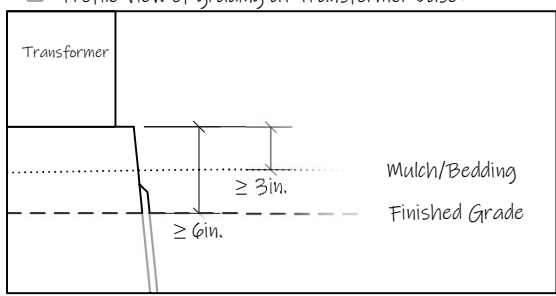
CR-UG-04
Sh 04
20220112

Underground Facility Clearance & Access Fencing/Screening Around Transformers

Typical Pad-mounted Transformer Location Vegetation Screening around Transformer



7 Profile view of grading at transformer base



Dial 8-1-1 or 1-800-242-1776 not less than 3 business days nor more than 10 business days prior to the start of excavation.

Pennsylvania One Call System Serial Number

Specifications subject to change without notice, current revision available upon request.
Typical transformer location, not representative of all installations.

Approved: *[Signature]*

© 2021 Citizens' Electric Co



Underground Specifications

CR-UG-04
Sh 05
20220112

Underground Facility Clearance & Access Fencing/Screening Around Transformers

General Notes:

1. Customer/Excavator is responsible to notify the Pennsylvania One Call System between 3 and 10 days prior to any excavation. Excavation shall comply with the PA Underground Utility Line Protection Law ('UULPA'). More information is available at www.pa1call.org.
2. Requirements represent typical installation. Company may specify additional requirements at its discretion in advance of installation. Deviations from typical installation at customer or contractor request subject to Company approval.
3. Every excavation site is unique. **STOP** and contact the Company if you believe lines are unmarked or incorrectly marked. **Do not proceed** if you are uncertain of underground cable locations.
4. Regardless of clearances, plantings shall not be placed such that transformer is inaccessible to Company personnel. Vehicle access to within 10 feet of transformer is required.
5. Plants may be removed, stepped down, trimmed or reduced at the discretion of Company personnel when necessary for safe access, visual identification or inspection, or to prevent undue wear and tear to equipment, even when planted in the appropriate zone. The Company is not responsible for replacements, restoration or follow-up care in such cases.

Definitions: These definitions shall be followed for the purposes of this specification.

1. Medium/Large Tree: Tree with expected mature height of great than ten feet (>10ft).
2. Small Tree: Tree with expected mature height of ten feet or less (≤10ft). Typically considered 'ornamental or dwarf' trees. Examples: redbud, lilac.
3. Woody: Plants whose stems live from one growing season to the next, adding new growth with each season. Examples: boxwood, azalea.
4. Herbaceous: Plants whose stems die back to ground level at the end of the growing season. May be annual, biennial or perennial. Example: daffodils, mums, petunias.
5. Creeping: Plants intended to spread for ground cover. May be woody or herbaceous. Examples: creeping juniper, periwinkle/vinca.
6. Aggressive growth: plants which may, under ideal growing conditions, increase their extent by twelve inches or more in a growing season even in maturity. Excludes growth which will cease at maturity. Examples: forsythia, honeysuckle, burning bush.

Continued on Sh 06 ↗



Underground Specifications

CR-UG-04
Sh 06
20220112

Underground Facility Clearance & Access Fencing/Screening Around Transformers

Definitions: (continued)

7. Thorny: Any plants with thorns, spines, barbs or burrs capable of injuring or irritating passersby or snaring or entangling clothing or equipment. Examples: rose, thistle, burdock.
8. Irritating: Any plants whose needles, spines, bristles, etc. and/or oils or sap may cause irritation to the skin, eyes, nose or respiratory system of the average person. This excludes allergies to pollen, spores or dust. Examples: nettle, rue.

Drawing Notes:

- 1 Company recommends against planting medium/large trees within 10 feet of transformer, such trees not permitted on Company easements where within 10ft of transformer.
- 2 In addition to restrictions in Note (1), 3 feet of clearance is required from the transformer to the following:
 - Initial plantings of any woody shrubs, small trees or large herbaceous plants (>12" diameter at maturity, such as large pompous grasses).
 - Mature extent of any thorny or irritating plant.
 - Allowed/pruned extent of creeping or aggressive growth plants.
 - Rocks, bird baths, ceramics, driftwood, etc. that may pose a tripping hazard to personnel.
 - Water features
- 3 In addition to restrictions in Notes (1) and (2), 2 feet of clearance is required from the transformer to the following:
 - Mature extent of any woody shrubs or small trees.
- 4 Within 2 feet of the transformer, only herbaceous plants that may be pulled, stepped down or easily cut off, or that pose no obstacle to work whatsoever may be placed. **It should be expected** that such plants may be removed, stepped down, trimmed or reduced at the discretion of Company personnel when necessary for access, visual identification or inspection. Restoration following such activities is the responsibility of the customer.
- 5 A clear working space of at least 8 feet is required at the front of the transformer. The space shall extend no less than 8' out and widen by 6" for every 3' of distance from the transformer (approx. 14°). No plantings or decorations except those permitted in Note (4) shall be placed within this zone.
- 6 Company recommends avoiding plantings within 18" of known and/or marked underground facilities. Digging within the 18" tolerance zone of underground utilities must be performed using 'prudent' excavation techniques as required by the PA Underground Utility Line Protection Law (PA Act 50 of 2017). Trees planted near underground lines, root damage may occur if excavation is required to repair or replace such lines.

Continued on Sh 07 ↗



Underground Specifications

CR-UG-04
Sh 07
20220112

Underground Facility Clearance & Access Fencing/Screening Around Transformers

Drawing Notes: (continued)

- 7 Acceptable materials around the base of the transformer include:
- Grass
 - Mulch/Wood Chips
 - Garden soil/bedding
 - Shredded Rubber
 - Gravel/Stone (nominal size not to exceed 2.5")
 - Sand/Screenings

Final grade should be approximately 6" below top of transformer foundation. Decorative fill (such as those noted above), if later added shall be at least 3" below the top of transformer foundation.

Decorative fill that accumulates to within 3" or above the top of transformer foundation must be removed by property owner(s).

Area around base of transformer should be kept clear of debris and exposed roots. Exposed roots may be cut for safety or personnel.

- 8 Consult other utilities for necessary clearances, access and other requirements/restrictions related to their respective facilities.

