



Pennsylvania 811

Excavator's Handbook

**Q & A
for
Safe Digging**

Dial 8-1-1 Before You Dig!

**Pennsylvania One Call:
The Keystone of
Damage Prevention**

www.paonecall.org

This document is to be used for reference only. It is not legal advice. For any legal requirements, please consult your attorney or refer to the most current amendment to Act 287 of 1974 which is available at www.paonecall.org/palaw.

When applicable, the answers to the questions will reference the section of PA Act 287 of 1974, as amended, 73P.S. § 176 et. seq. and/or the Complex Project Policy (Policy) located on the PA One Call website.

To download this guide go to www.paonecall.org/excavatorhandbook or use the QR code below.



Additional reference materials can be found:

www.paonecall.org

www.commongroundalliance.com

www.puc.pa.gov

www.apwa.net

www.FHWA.dot.gov

✦ **Question: What is considered an excavation?**

Answer: The use of powered equipment or explosives in the movement of earth, rock or other material.

- There are very specific requirements as to what activities constitute excavation which should be reviewed on the website www.paonecall.org.

Section 1

✦ **Question: What do I need to do before I dig?**

Answer: Place a call to 8-1-1 at least 3 business days, but not more than 10 business days, prior to starting excavation.

Section 5 (2.1) and (2.2)

✦ **Question: Should I mark in white before I call?**

Answer: Yes, the perimeter of the Work site should be marked in white. (Do not use any other color.)

Sections 1, 2 (5)(vi), and 5 (11)

✦ **Question: What hours are the one call center open?**

Answer: 24 x 7 every day of the year.

✦ **Question: Who must place the one call?**

Answer: The responsible person doing the excavation.

Sections 1 and 5 (2.1)

✦ **Question: What is a serial number?**

Answer: Proof that you placed a one call notification. The serial number is assigned by the One Call System and is on the locate request.

Section 5 (2.2)

- ✦ **Question: I'm a subcontractor, can I piggyback on my main Excavator's one call?**
Answer: No. Each responsible Excavator must make their own notification.
Section 5 (2.1) and (2.2)

- ✦ **Question: Who is responsible for finding the precise location of the underground line?**
Answer: The Excavator, using prudent techniques.
Section 5 (4)

- ✦ **Question: Upon initial arrival at the Work site, what should I do if there are no visible mark-outs?**
Answer: Do not begin excavating. Check the KARL responses through the one call center.
Section 5 (20)

- ✦ **Question: What should I do if I disagree with the responses in KARL, due to visible evidence in the field?**
Renotify the One Call System. After the renotify, wait up to three hours for the response from the Facility owner(s) before digging prudently.
Section 5 (20)

- ✦ **Question: What is the Tolerance zone?**
Answer: 18 inches horizontally from the exterior wall of the pipe or facility. (See back of handbook)
Section 1

- ✦ **Question: What is required within the Tolerance zone?**
Answer: Exercise due care and use prudent techniques.
Section 5(4)

✦ **Question: For how long are the marks good?**

Answer: When excavation begins within the Lawful start dates, you can continue work as long as equipment is on site and the marks are visible.

Section 5 (3) and (14)

✦ **Question: Must I physically protect the marked Facility owner lines I expose in preparation for excavation?**

Answer: Yes, in consultation with the Facility owner.

Section 5 (6)(ii)

✦ **Question: When may I lawfully start digging?**

Answer: Read the locate request for your Lawful start date.

Sections 1 and 1.1

✦ **Question: When do I need to call back for re-marking?**

Answer: You have an obligation to protect the marks. When the marks become obscured or when you remove equipment from the site for more than 2 business days, you must call one call for re-marks.

Section 5 (3) and (14)

✦ **Question: May I refresh anyone else's marks using their color?**

Answer: No. You must protect the marks. You may not refresh anyone else's marks.

Section 5 (3)

✦ **Question: What should I do when I hit or damage a Line or facility?**

Answer:

- Stop digging!
- If gas is escaping or blowing, you must call 9-1-1.
- Call 8-1-1 to create a damage notification or notify the Facility owner directly.
- Submit an Alleged Violation Report (AVR) not more than 10 business days after the damage occurred.

Section 5 (7), (8), and (16)

✦ **Question: What is an Emergency one call?**

Answer: A notification involving an event that has an immediate effect on life or property.

Sections 1 and 5 (9)

✦ **Question: What is the difference between a single excavation notification and a Complex project?**

Answer: The maximum area of a single notification is 1,000 feet or intersection to intersection, whichever is greater, along the same street, within the same political subdivision. Anything greater than this is considered a Complex project.

Section 3 (4)

✦ **Question: What determines if my Excavation work is a Complex project?**

Answer:

- Duration
- Impact on the Facility owner's lines or the public
- Size
- Complexity

Section 1

✦ **Question: A Facility owner feels my Excavation work is complex and requests a meeting through the KARL System; what happens next?**

Answer: The Facility owner will contact you directly to schedule a meeting.

Section 1

✦ **Question: My Excavation work falls under the definition of complex; what do I need to do?**

Answer:

- If a project does not exist in the Coordinate PA (CPA) portal on the PA One Call website, then create one.
- Create a Complex project meeting notification from within the project.
- Hold a Preconstruction meeting, as applicable.
- Create locate request(s) from within the project based on agreements made at the meeting.

Sections 1 and 5 (3) and Policy

✦ **Question: Where should the Preconstruction meeting be held?**

Answer: In close proximity to the project work location or electronically.

Sections 1 and 5 (3) and Policy

✦ **Question: What should occur at the Preconstruction meeting?**

Answer: Attendance should be recorded on the POCS approved Complex Project Meeting Sign In Sheet template and notes taken, including the scope of locate request(s) and the agreed upon mark-out

schedule.

Note: Sign in sheet and meeting notes template are available on the POCS website.

Policy

✦ ***Question: What should happen after the meeting?***

Answer: The meeting notes/agreement and sign in sheet should be uploaded to the CPA portal. Locate request(s), as modified, should be created via the CPA portal based on the agreement reached at the meeting.

Policy

✦ ***Question: Is a Preconstruction meeting required?***

Answer: No, if the Excavator chose not to hold a meeting, a Facility owner can request a one on one meeting with the Excavator.

Section 5 (3)

✦ ***Question: May an Excavator dig on a Complex project notification?***

Answer: No, this is the notification that begins the preconstruction planning process.

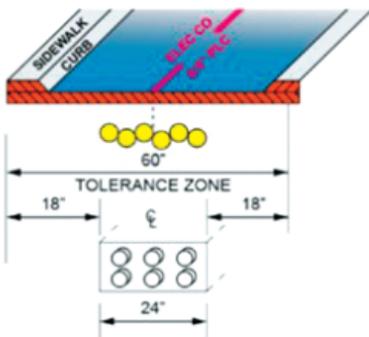
Policy

APWA/CGA Temporary Marking Color

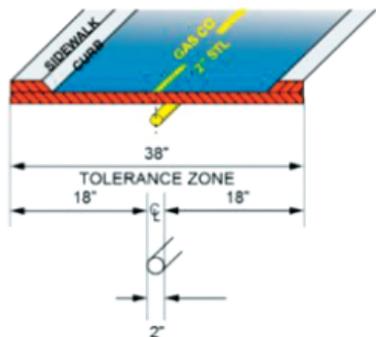
	WHITE - Proposed Excavation
	PINK - Temporary Survey Markings
	RED - Electric Power Lines, Cables, Conduit and Lighting Cables
	YELLOW - Gas, Oil, Steam, Petroleum, Gaseous and Hazardous Materials
	ORANGE - Communications, Alarm or Signal Lines, Cables or Conduit, and Traffic Loops
	BLUE - Potable Water
	PURPLE - Reclaimed Water, Irrigation and Slurry Lines
	GREEN - Sanitary and Storm Sewer Lines

TYPICAL MARKING

LARGE PIPE OR MULTIPLE DUCTS



SMALL PIPE OR CABLES



PA One Call does not locate or mark underground lines.



**THREE BUSINESS DAYS BEFORE
YOU DIG – DRILL– BLAST**

Dial 8-1-1 or 1-800-242-1776

www.paonecall.org

APWA/CGA Best Practices For Temporary Markings

PA Act 287, as amended

An excavator shall use the color white to mark a proposed excavation site when **exact** site information cannot be provided. THIS SHOULD BE DONE PRIOR TO THE NOTIFICATION, DIAL 811 or 1-800-242-1776 (from outside PA). Pennsylvania law requires no less than 3 nor more than 10 business days before you dig ANYWHERE IN THE COMMONWEALTH. Any excavation within the tolerance zone is performed by using prudent techniques. The excavator shall observe a tolerance zone comprised of the width of the facility plus 18 inches on either side of the outside edge of the underground facility on horizontal plane (see graphic on following page). Use pink temporary survey markings for all surveying and grade marks. *Continue using Prudent Techniques until you find the Line. Notify Project owner and charge PennDOT 408 Spec for necessary work.*

Temporary Facility Markings by Facility Owners

To mark, stake, locate or otherwise provide the position of the facility owner's underground lines at the site within 18 inches horizontally from the outside wall of such line in a manner so as to enable the excavator, where appropriate within the tolerance zone, to employ prudent techniques, which may include hand-dug test holes, to determine the precise position of the underground facility owner's lines. This shall be done to the extent such information is available in the facility owner's records or by use of standard locating techniques other than excavation. The marking can be done in one of two ways: either placing the marks over the approximate center of the facility, or by placing the marks over the actual outside edges of the facility with a line connecting the two horizontal lines to indicate there is only one facility. ***PA One Call does not locate or mark lines.***

Best Practices for Locating & Marking Practices/ Responsibilities

The APWA/CGA Temporary Marking Color Code and Chapter 4 marking practices are specified in PA Act 287, as amended. Operators are responsible for marking the facilities and appurtenances in the appropriate color of their facility type, their company identifier (name, initials or abbreviation), the number and width of their facilities and a description of the facility (HP, FO, STL). Use paint, flags, stakes or whiskers or a combination to identify the operator's facility(s) at or near the excavation site. It is against the Law to tamper with these markings.

Uniform Color Code

The American Public Works Association/CGA's Uniform Color Code is PA law. The code uses ANSI Standard Z535.1 Safety colors, as shown for temporary marking of excavation sites and underground facility identification (examples are provided on the previous page).

Pennsylvania 811

www.paonecall.org
DIAL 8-1-1 or 1-800-242-1776



WORK LOCATION REQUEST FORM

TELEPHONE NUMBER: () EXT.: CALLER: _____

COMPANY NAME: _____

ADDRESS: _____

CITY: STATE: ZIP: _____

EXCAVATOR: _____

WORKSITE INFORMATION:

COUNTY: MUNICIPALITY: WARD: _____

STREET ADDRESS: STREET NAME: _____

NEAREST INTERSECTION: _____

SECOND INTERSECTION: _____

SITE MARKED IN WHITE: Yes No

When specific site information is not provided the site must be marked in white.

LOCATION INFORMATION: _____

SUBDIVISION: TYPE OF WORK: _____

WORKING IN: STREET SIDEWALK PUBLIC PROPERTY PRIVATE PROPERTY
 OTHER (SPECIFY) _____

DEPTH: EXTENT OF EXCAVATION: _____

METHOD OF EXCAVATION: PROJECT OWNER: _____

DURATION OF JOB: PERSON TO CONTACT: _____

PHONE: () EXT: BEST TIME TO CALL: _____

FAX #: () EMAIL ADDRESS: _____

PENNDOT CONTRACT/PERMIT #: JOB #: _____

REMARKS: _____

NOTIFICATION TYPE:

CONSTRUCTION (Not less than 3 nor more than 10 Business Days) SCHEDULED EXCAVATION DATE: TIME: _____

FINAL DESIGN (Not less than 10 nor more than 90 Business Days) PRELIMINARY DESIGN

TO BE COMPLETED AFTER PLACING ONE CALL

LAWFUL START DATES: THROUGH _____

FACILITY OWNER MEMBERS NOTIFIED: _____

SERIAL NUMBER(S) ASSIGNED: DATE: _____

THERE IS AN ANNUAL FEE

