

TOWN OF FALMOUTH: TRENCH PERMIT
 For Work within Public and Private Rights of Way
 Pursuant to G.L. c. 82A §1 and 520 CMR 14.00 et seq.(as amended)



PUBLIC WORKS DEPARTMENT
 416 GIFFORD STREET
 FALMOUTH, MA 02540
 508-457-2543

falengr@falmouthma.gov

| |
|--|
| FEE: \$25.00 |
| Paid: _____ (Date) (Initial) |
| BOND |
| Amt.= \$ _____ (Refundable Upon Final Approval) |
| Paid: _____ (Date) (Initial) |

| |
|--|
| Application Date: _____ |
| Permit: # _____ |
| Bond Paid By: _____ |
| Competent Person (520 CMR 14.02): _____ |

BEFORE YOU DIG, CALL DIG SAFE: 811

When is a Permit Required?

Trench Definition per the OSHA Standard: An excavation made below the surface of the ground, narrow in relation to its length. In general, the depth is greater than the width, but the width of the trench is not greater than fifteen feet.

Address for Trench Permit _____

Name of Applicant _____ Phone _____

Address of Applicant _____ Phone _____

Name of Excavator (if different from Applicant) _____ Phone _____

Address of Excavator _____ Cell _____

Name of Property Owner _____ Phone _____

Address of Property Owner _____ Cell _____

Insurance Certificate # _____ Expires _____

Insurance Contact Information _____ Phone _____

Provide a written description and plan showing proposed work or describe and sketch the proposed work

Estimated Start Date: _____ Estimated End Date: _____

| | |
|---------------------------|------------|
| Applicant Signature _____ | Date _____ |
|---------------------------|------------|

Office Use Only Below This Line

Site Inspections: _____

Start work date: _____

Inspection notes: _____

Permit Approved _____
 (Date) (Initial)

Permit Completed _____
 (Date) (Initial)

Attach or provide a sketch of work area with description of work below.

Summary of 1926 CFR Subpart P -OSHA Excavation Standard
For further information or a full copy of the standard go to www.osha.gov.

This is a worker protection standard, and is designed to protect employees who are working inside a trench. This summary was prepared by the Massachusetts Division of Occupational Safety and not OSHA for informational purposes only and does not constitute an official interpretation by OSHA of their regulations, and may not include all aspects of the standard.

- Trench Definition per the OSHA standard:
 - An excavation made below the surface of the ground, narrow in relation to its length.
 - In general, the depth is greater than the width, but the width of the trench is not greater than fifteen feet.
- Protective Systems to prevent soil wall collapse are always required in trenches deeper than 5', and are also required in trenches less than 5' deep when the competent person determines that a hazard exists. Protection options include:
 - Shoring: Shoring must be used in accordance with the OSHA Excavation standard appendices, the equipment manufacturer's tabulated data, or designed by a registered professional engineer.
 - Shielding (Trench Boxes): Trench boxes must be used in accordance with the equipment manufacturer's tabulated data, or a registered professional engineer.
 - Sloping or Benching: In Type C soils (what is most typically encountered) the excavation must extend horizontally 1 ½ feet for every foot of trench depth on both sides, 1 foot for Type B soils, and ¾ foot for Type A soils.
 - A registered professional engineer must design protective systems for all excavations greater than 20' in depth.
- Ladders must be used in trenches deeper than 4'.
 - Ladders must be inside the trench with workers at all times, and located within 25' of unobstructed lateral travel for every worker in the trench.
 - Ladders must extend 3' above the top of the trench so workers can safely get onto and off the ladder.
- Inspections of every trench worksite are required:
 - Prior to the start of each shift, and again when there is a change in conditions such as a rainstorm.
 - Inspections must be conducted by the competent person (see below).
- Competent Person(s) is:
 - Capable (i.e., trained and knowledgeable) in identifying existing and predictable hazards in the trench, and other working conditions which may pose a hazard to workers, and
 - Authorized by management to take necessary corrective action to eliminate the hazards. Employees must be removed from hazardous areas until the hazard has been corrected.
- Underground Utilities must be:
 - Identified prior to opening the excavation (e.g., contact Digsafe).
 - Located by safe and acceptable means while excavating.
 - Protected, supported, or removed once exposed.
- Spoils must be kept back a minimum of 2' from the edge of the trench.
- Surface Encumbrances creating a hazard must be removed or supported to safeguard employees. Keep heavy equipment and heavy material as far back from the edge of the trench as possible.
- Stability of Adjacent Structures:
 - Where the stability of adjacent structures is endangered by creation of the trench, they must be underpinned, braced, or otherwise supported.
 - Sidewalks, pavements, etc. shall not be undermined unless a support system or other method of protection is provided.
- Protection from water accumulation hazards:
 - It is not allowable for employees to work in trenches with accumulated water. If water control such as pumping is used to prevent water accumulation, this must be monitored by the competent person.
 - If the trench interrupts natural drainage of surface water, ditches, dikes or other means must be used to prevent this water from entering the excavation.
- Additional Requirements:
 - For mobile equipment operated near the edge of the trench, a warning system such as barricades or stop logs must be used.
 - Employees are not permitted to work underneath loads. Operators may not remain in vehicles being loaded unless vehicles are equipped with adequate protection as per 1926.601(b)(6).
 - Employees must wear high-visibility clothing in traffic work zones.
 - Air monitoring must be conducted in trenches deeper than 4' if the potential for a hazardous atmosphere exists. If a hazardous atmosphere is found to exist (e.g., O₂ <19.5% or >23.5%, 20% LEL, specific chemical hazard), adequate protections shall be taken such as ventilation of the space.
 - Walkways are required where employees must cross over the trench. Walkways with guardrails must be provided for crossing over trenches > 6' deep.
 - Employees must be protected from loose rock or soil through protections such as scaling or protective barricades.

Summary of Excavation and Trench Safety Regulation (520 CMR 14.00 et seq.)

This summary was prepared by the Massachusetts Department of Public Safety pursuant to G.L.c.82A and does not include all requirements of the 520 CMR 14.00. To view the full regulation and G.L.c.82A, go to [www/mass.gov/dps](http://www.mass.gov/dps) Pursuant to M.G.L. c. 82, § 1, the Department of Public Safety, jointly with the Division of Occupational Safety, drafted regulations relative to trench safety. The regulation is codified in section 14.00 of title 520 of the Code of Massachusetts Regulations. The regulation requires all excavators to obtain a permit prior to the excavation of a trench made for a construction-related purpose on public or private land or rights-of-way. All municipalities must establish a local permitting authority for the purpose of issuing permits for trenches within their municipality. Trenches on land owned or controlled by a public (state) agency requires a permit to be issued by that public agency unless otherwise designated.

In addition to the permitting requirements mandated by statute, the trench safety regulations require that all excavators, whether public or private, take specific precautions to protect the general public and prevent unauthorized access to unattended trenches. Accordingly, unattended trenches must be covered, barricaded or backfilled. Covers must be road plates at least ¾" thick or equivalent; barricades must be fences at least 6' high with no openings greater than 4" between vertical supports; backfilling must be sufficient to eliminate the trench. Alternatively, excavators may choose to attend trenches at all times, for instance by hiring a police detail, security guard or other attendant who will be present during times when the trench will be unattended by the excavator.

The regulations further provide that local permitting authorities, the Department of Public Safety, or the Division of Occupational Safety may order an immediate shutdown of a trench in the event of a death or serious injury; the failure to obtain a permit; or the failure to implement or effectively use adequate protections for the general public. The trench shall remain shut down until re-inspected and authorized to re-open provided, however, that excavators shall have the right to appeal an immediate shutdown. Permitting authorities are further authorized to suspend or revoke a permit following a hearing. Excavators may also be subject to administrative fines issued by the Department of Public Safety for identified violations.