



FACEBOOK FORUM

FIRST DUE CONSIDERATIONS FOR TRENCH RESCUE

BROADCAST DATE: July 23, 2020
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OSHA REQUIRMENTS

DEFINITION OF A TRENCH: an excavation which is deeper and longer than it is wide and is less than 15 feet wide at the bottom.

A. Trench regulations

Federal OSHA - 29 CFR 192 Subpart P
Illinois Department of Labor- Illinois

B. Additional OSHA regulations for worker safety

Escape routes
Air quality monitoring
Personal protective equipment (PPE)

C. Bell Bottomed Pier Holes (Bell shaped at the bottom)

Full body harness and tag lines
Definition "Bell-bottom pier hole" means a type of shaft or footing excavation,

D. Other Protective Measures

Fall protection for top-side workers
Drowning protection where water could accumulate
Traffic vests

E. Soils

Classification
Soil Classes
Adjustments to Soil Classification
Additional factors
Tests

F. Legal Liabilities

TRENCH HAZARDS

A. Trench Collapse

- Reasons
- Collapse Mechanics
- Pressures
- Types
- Secondary

B. J.U.L.I.E. Color Code System

- Joint Utilities Locating Information for Excavators
 - Orange-Communications
 - Red-Electric
 - White-Excavation Boundaries
 - Yellow-Natural gas
 - Green-Sewer
 - Blue-Water

TRENCH RESCUE OPERATIONS

A. Initial Size-Up

- Number of victims
- Trench dimensions
- Method of entrapment
- Victim's initial condition
- Depth of victim(s) below surface
- Type of collapse
- Time of day
- Weather
- Soil classification
- Presence of standing or seeping water
- Sources of vibration
- Previously disturbed or layered soil
- Type and location of superimposed loads
- Type and location of surface encumbrances

B. Subcomponents of Each Task

C. Placing Ground Pads and Escape Ladders

D. Air Quality Monitoring and Ventilation

E. Control Zones

F. Record Keepings and Documentation

G. Command Structure

H. RIT Team

I. Victims

- Visible Victim
- Victim Completely Buried

J. Releasing, Stabilizing and Removing Victims