

UTILITY LOCATION/ AVOIDANCE POLICY

Effective Date: 06/01/2019

All Whiting-Turner Project teams shall ensure that the following protocols for underground utility location are adhered to on all Whiting-Turner Job Sites.

There are no exceptions to this protocol unless by written petition approved and signed by a Whiting-Turner Senior Vice President.

Any petition to gain exception to this protocol shall include a detailed discussion stating why the protocol is being deemed unnecessary and 100% assuredness that every direct buried and encased utility has been located.

Whiting-Turner Team Implementation

Notify and schedule a preconstruction meeting three (3) weeks in advance of excavation work.

Required attendees of this meeting shall be as follows:

- Whiting-Turner Project Manager and Lead Superintendent
- Subcontractor's excavation authorized competent person
- Subcontractor's operator(s)
- Utility locator
- Representatives of owners/design teams, with direct knowledge of existing underground conditions
- Utility company representatives (on public property)



Protocol

Whiting-Turner shall:

- Conduct the Excavation/Utilities Subcontractor Preconstruction Review using Whiting-Turner's form as the agenda of the meeting
- Conduct a walk/discussion of the work area with all required parties
- Assure at completion of the meeting, all parties sign the form where applicable

All contractors whose work involves excavations or trenching shall be required to:

- Attend and participate in Whiting-Turner's Excavation/Utilities Subcontractor Preconstruction review resulting in completion of Whiting-Turner's Excavation/Utilities Subcontractor Preconstruction Review form
- Provide Vacuum Truck potholing services at required intervals prior to disturbing any soil
- Ensure Excavation Equipment Operator(s) attendance for Whiting-Turner's Excavation/Utilities Subcontractor Preconstruction Review, site walk and Excavation Equipment Operator's/Utility Avoidance Orientation
- Notify 811 call centers to have utilities identified and marked by utility provider or private locator once utilities are identified and marked
- Locate all utilities by potholing method utilizing vacuum truck. Utilities that will be continuously encountered must be located again at the following frequency:
 - Direct burial utilities must be relocated every 50 feet
 - Utilities encased must be relocated every 100 feet
- Ensure that all their Equipment Operators involved in utility excavation work attend the Whiting-Turner Excavation/Utilities Subcontractor Preconstruction Review, Site Walk and Excavation Equipment Operator's/Utility Avoidance Orientation
- Ensure that all their Operators set up and start the digging process following rules and requirements as listed in the Excavation Equipment Operators/Utility Avoidance Orientation

If work is suspended for 3 weeks, or if conditions change, the forms and operator orientation must be reviewed by all responsible parties prior to restarting work



UTILITY LOCATION/ AVOIDANCE



SUBCONTRACTOR PRECONSTRUCTION REVIEW

Whiting-Turner lead superintendent and project manager will record and lead the discussion on items below

Job Name: _____ Date: _____
Activity Start Date: _____ Activity End Date: _____
Activity Start Time: _____ Activity End Time: _____
Excavation Subcontractor: _____ Sub-tier Contractors: _____
Location of Excavation: _____
Excavation Purpose: _____

1. Place check marks in boxes next to utilities that are known and marked on provided as built drawings.

- Electric Gas Tele/Data Water Sanitary Sewer
 Cable Steam Line Other:

In addition to the check marks that were placed above, circle any utilities that could potentially be present as unidentified in the work area(s).

2. Which of the following will be utilized to provide underground utility identification?

- Subcontractor authorized person:
 State Locator (MISS Utility, Call Before You Dig, etc.); Ticket #:
 Private 3rd Party Locator:

3. After utilities are marked on this date _____ a representative from the Owner, Whiting-Turner, Excavation Subcontractor, Utility Locator and the Equipment Operator(s) will walk the work area to review and discuss where known and potentially unknown utilities may be located prior to commencement of soil disturbing activities.

4. Name of excavation subcontractor authorized competent person responsible for reviewing as-built drawings, interpreting marks left by locators, identifying all services to buildings, consulting maps, field sketches, and surveying the site for additional signs and curb markings.

Name: _____ Title: _____

5. Name of excavation subcontractor authorized competent person responsible for ensuring that all persons involved in the work (including equipment operators) are aware of safe work practices and procedures to perform the work?

Name: _____ Title: _____ Contact # _____

6. Name of Vacuum Truck company the excavation subcontractor will use to perform vacuum potholing.

Name: _____ Contact: _____

UTILITY LOCATION/ AVOIDANCE



Potholing for reoccurring direct buried utilities is required every 50 feet
Potholing for reoccurring encased utilities is required every 100 feet

7. If a utility strike or other emergency occurs, name the subcontractor authorized competent person who will be responsible for notifying the appropriate emergency contact personnel listed below:

All utility valve and switch whereabouts and shut down procedures must be identified and known. Prior to start of work, list the location of each applicable valve or switch so that access is immediate in case of emergency.

Electric: _____

Name of Contact: _____ Contact #: _____

Water: _____

Name of Contact: _____ Contact #: _____

Gas: _____

Name of Contact: _____ Contact #: _____

Steam: _____

Name of Contact: _____ Contact #: _____

Fire: _____ Contact# _____

Name of Contact: _____ Contact #: _____

Whiting-Turner Lead Superintendent: _____ Contact #: _____

8. Care must be taken to prevent non-construction personnel from entering work areas. What type of barricades will you as the excavation subcontractor be utilizing to ensure that the work area is isolated from non-construction personnel? _____

9. If the work will take place next to adjacent buildings, the subcontractor authorized competent person must ensure that exhaust and dust does not enter building air intakes. What methods will you as the excavation subcontractor be utilizing to control this exposure? _____

10. Attach copies of as-built drawings, documentation of interpreting marks left by locators, consulting maps/field sketches, models and any other information utilized to predetermine potential utility locations and services to the building.

11. Prior to backfill of excavation, subcontractor must verify and provide Whiting-Turner Superintendent with utilities GPS locations and depths.

UTILITY LOCATION/ AVOIDANCE



Subcontractor Representatives: Company Name:

Name (Print): _____ Date: _____
Signature: _____

Name (Print): _____ Date: _____
Signature: _____

Name (Print): _____ Date: _____
Signature: _____

Subcontractor's Excavation Operator Representatives: Company Name:

Operator Name (Print): _____ Date: _____
Signature: _____

Operator Name (Print): _____ Date: _____
Signature: _____

Operator Name (Print): _____ Date: _____
Signature: _____

Whiting-Turner Representatives

Whiting-Turner Project Manager (Print): _____ Date: _____
Signature: _____

Whiting-Turner Superintendent (Print): _____ Date: _____
Signature: _____

This review has been conducted for the work, days and times listed above. Any change in operation will require a new review conducted by affected parties prior to start of new work.

UTILITY LOCATION/ AVOIDANCE OPERATOR ORIENTATION



It is Whiting-Turner's policy that every reasonable effort be taken to eliminate recognized hazards from our operations. In the construction industry, utility-related incidents continue to occur on nearly a daily basis.

In an effort to help avoid these types of occurrences, Whiting-Turner has created an excavation equipment operator/utility avoidance orientation to heighten awareness of potential known hazards associated with these activities.

Every operator involved, plays an instrumental role in performing these tasks safely and avoiding unplanned strikes of buried utilities. To assist operators in accomplishing these tasks in a safe manner, Whiting-Turner has developed guidelines to follow when performing excavation work near existing utilities on Whiting-Turner project sites so that hazards to operators, fellow workers and the public in general can be avoided.

Operator rules and requirements for avoidance of direct buried utility strikes

It is this Whiting-Turner Project Team's expectation that all excavation equipment operators will make every reasonable effort to avoid strikes of direct buried utilities while working on this project site.

Whiting-Turner considers this as a condition of working on this project site.

Name of subcontractors authorized competent equipment operator responsible for working on this Whiting-Turner project site:

- Company: _____
- Name: _____
- Name: _____
- Name: _____

Prior to disturbing soil, you as the equipment operator shall:

- Ensure that you have the required skill and experience to operate the equipment that you will be using to perform the work.
- Inspect your equipment to ensure that all aspects of the equipment are functioning properly.
- Ensure that you are familiar with how all equipment responds when operating it.
- Familiarize yourself with site surroundings, landmarks, marks, existing utilities, etc.
- Actively participate in the preconstruction meeting discussions and job walks.

UTILITY LOCATION/ AVOIDANCE OPERATOR ORIENTATION



When Digging Commences:

- Ensure that you have good visibility (i.e., clear glass, no obstacles and no glare).
- Pay close attention to the marks the locator has provided. Do not deviate from these marks.
- Make slow, deliberate movements when operating equipment. Do not get in a hurry and/or make quick or jerky movements during operation.
- Do not use machinery to dig within 24 inches of a marked utility line. Once this boundary is reached, stop the equipment, rest the bucket on the ground, take your hands off the control levers and wait to receive direction to proceed from your designated authorized competent person.
- Do not attempt to remove spoils by making sweeping motions with equipment bucket when within the 24-inch boundary of the located utility marks.
- Do not try to break hard ground by using the bucket to repeatedly impact the ground.
- Utilize the bucket that has the least likelihood of striking and damaging a utility line.
- Utilize spotters when necessary. Ensure that spotters are always within your site and out of danger of being struck by your equipment.
- Dig parallel to lines removing six (6) inches of soil or less per pass.
- Pay close attention to depths of differing utility lines.
- Stay focused. Do not engage in anything distracting while sitting behind the controls of the equipment.
- Do not smoke near or on the equipment.
- Do not leave the seat of running equipment.
- Backfill carefully. Do not drop rocks or clods on exposed utilities.
- Make sound decisions based on well thought out judgments.
- If unsure of how to proceed safely, stop and seek guidance from your supervisor.

By signing below, you acknowledge that Whiting-Turner's Excavation Equipment Operator/Utility Avoidance Orientation has been discussed with you.

I understand and agree to follow all rules and requirements as discussed.

Company Name:

Date:

Operator Signature:

Operator Printed Name:

Company Name:

Date:

Operator Signature:

Operator Printed Name:

Company Name:

Date:

Operator Signature:

Operator Printed Name: