

Appendix P
DAILY TRENCHING LOG

DATE: _____ SIGNATURE: _____

WEATHER: _____ PROJECT: _____

LOCATION: _____

(Street and nearest cross-street)

1. Was One Call System contacted: Yes _____ No _____ (utility locations)
2. Protective System: Trench Shield (box) _____ Wood shoring _____ Sloping _____ Other _____
3. Purpose of trenching: Drainage _____ Water _____ Sewer _____ Gas _____ Other _____
4. Was visual soil tests made: Yes _____ No _____ If yes, what type? _____
5. Was manual soil test made: Yes _____ No _____ If yes, what type? _____
6. Type of soil: _____
7. Soil Strength: _____
8. Surface encumbrances? Yes _____ No _____ If yes, what type? _____
9. Water conditions: Wet _____ Dry _____ Submerged _____
10. Hazardous atmosphere exists: Yes _____ No _____ If yes, follow confined space entry procedure policy, complete Confined Space Entry Permit, monitor for toxic gas(s).
11. Is trenching or excavating exposed to public vehicular traffic (exhaust emission)?
Yes _____ No _____ If yes, refer to confined space entry procedures, complete Confined Space Entry Permit, monitor for toxic gas(s).
12. Measurements of trench: Depth _____ Length _____ Width _____
13. Is ladder within 25 feet of all workers: Yes _____ No _____
14. Is excavated materials stored 2 feet or more from edge of excavation: Yes _____ No _____
15. Are employees exposed to public Vehicular traffic: Yes _____ No _____ (if yes, warning vests required)
16. Are other utilities protected: Yes _____ No _____ Not required _____ (water, sewer, gas, or other structures)
17. Are sewer, or natural gas-lines exposed: Yes _____ No _____ If yes, refer to confined space entry procedures policy, complete Confined Space Entry Permit, monitor for toxic gas(s).
18. Periodic inspection: Yes _____ No _____ Last date: _____
19. Did employees receive training in excavating: Yes _____ No _____

OUTLINE FOR COMPLETEING "DAILY TRENCHING LOG"

VISUAL SOIL TESTS

- Type I Observe excavated material (coming out of buckets).
- Type II Observe trench sides for:
 - A. crack - line openings,
 - B. spalling chunks,
 - C. previously distributed soils (existing utilities),
 - D. layered systems,
 - E. water seeping or ground water level.
- Type III Observe excavating material and adjacent area for vibrations,

MANUAL SOIL TESTS

- Type I Plasticity Thread Tests
 - A. roll golf ball size of excavated material into ball,
 - B. form 1.8"Ø thread approximately 2" long,
 - C. hold one end vertically - if it doesn't break, material is clay with a material strength of 1.5 Tsf.
- Type II Dry Strength tests
 - A. take a handful of excavating material and squeeze,
 - B. if material breaks easily into granular material, it is a sandy with a material strength of 0.5 Tsf.
- Type III Thumb Penetration Tests
 - A. pick up a 4" - 6" Ø clump of excavated material,
 - B. try to press thumb into clump,
 - C. if the material may be indented by the thumb, BUT it takes a very great effort to penetrate the material than the material is TYPE "A" with a 1.5 Tsf.
 - D. if material can be easily penetrated several inches by the thumb, and can be molded easily by light finger pressure, than the material is TYPE "C" with a 0.5 Tsf.
- Type IV Penetrometer
- Type V Dry tests

TYPES OF SOILS: A - B OR C?

Type "A": Clay	Type "B": Angular Gravel	Type "C": Granular soils
Silty Clay	Silt	Gravel
Sandy Clay	Silty Loam	Sand
Clay Loam	In some cases:	Loamy Sand
Silty Clay Loam	Silty Clay Loam	0.5 Tsf
Sandy Clay Loam	Sandy Clay Loam	
Hardpan		
1.5 Tsf.		