

Hampton Tedder
Underground
Service Alert
(USA) Dig Ticket
Program



This is a Hampton Tedder proprietary training.



RULES TO SAVE YOUR LIFE!

What you *MUST*
LEARN & MUST
COMPLY with
from this training

1. **FOREMAN (FOREMAN OR GENERAL FOREMAN) MUST APPROVE ALL DIGGING**: Never dig in an area until your Journeyman Lineman Foreman approves you to dig! **Foremen shall have circuit maps available for all areas to dig to ensure proximity to UG lines and equipment. When possible, have Fast Curve Settings enabled on circuits near the excavation site. (If Fast Curve is not in effect)**
2. **NEVER DIG WITHOUT VALID DIG TICKET**: Never dig unless you have a Valid Dig Ticket from Dig-Alert (USA or Dig-Alert). A valid ticket means Dig Alert employees have been to the site, marked the location of the underground utilities and issued the foreman a valid dig ticket document. The **Dig Ticket Must have Hampton Tedder on the form as company performing excavation**. When Dig alert employees visit and mark a site they use different color spray paint, flags or stakes to identify the location of underground Electrical, Gas, Communications or Water. Red for Electrical, Yellow for Gas, Orange for Communications and Blue for Water. Most importantly if there are No-Underground Utilities Dig Alert will paint on the ground or mark with flags "NO UTILITIES EXIST". THE LACK OF NO-MARKING IS A WARNING DIG ALERT MISSED MARKING FOR UNDERGROUND ELECTRICAL OR GAS AND IT IS NOT SAFE TO DIG! Dig Alert will identify if there are no utilities at the site and paint on the street: No-Electrical (in red paint), No-Gas (in yellow paint), No-Communications (in orange paint) and No-Water (in blue paint). **If there are no marking digging is not approved!**
3. **DIGGING NEAR POWER POLES IS EXTREMELY DANGEROUS!**: Digging around power poles is **Dangerous!** You risk Electrocution, Explosion and Death if you dig into an energized Electrical or Gas line! **You must memorize and comply with this training** to keep yourself, your co-workers and the public safe from injury up to and including death!



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4. **NEVER USE POWER EQUIPMENT (OR HAND TOOLS) TO DIG INTO UNDERGROUND CONCRETE ENCASEMENTS:** Never use jackhammers, power tools, mini-excavators, backhoes or hand tools to chip away or pierce underground concrete encasements. They could and probably do contain energized electrical cables that will **BLOW-UP** and **KILL-YOU**, when your jackhammer, power tool, mini-excavator, backhoe or hand tools pierces the energized electrical cables.
5. **JACKHAMMERS, POWER TOOLS, MINI-EXCAVATORS & BACKHOES HAVE STRICT LIMITED USE:** There are specific areas you can dig in with hand tools and likewise there are specific areas you can dig in with power tools or mini-excavators or backhoes. You must learn these areas from this training. You must **NEVER-DIG** in an area if you are unsure or have a question. Your Journeyman Lineman Foreman is there to answer your questions. If he is unavailable...**DO Not Dig!**
6. **HAND DIG 30" WITHIN MARKED UTILITIES:** Always **Carefully** Hand Dig - Within 30" of a marked Electrical, Gas, Communication or Water Line. **NEVER CHIP ON UNDERGROUND CONCRETE!**
7. **NEVER DIG NEAR POWER POLE ANCHOR:** Do not change strain on a pole or anchor without properly stabilizing the pole. Utilizing heavy equipment or temporary guying, do not dig around the pole or the anchors (within 6'). Changing the strain can cause unwanted damage to the pole or can cause the anchor to let go and create an unsafe situation with the pole and wire.
8. **NEVER DIG OUTSIDE DIG TICKET APPROVED AREA:** Never Dig - Farther away from pole or structure as designated on dig ticket. Often 25', 30' or 50'.



Course Objectives

Attendees will:

- ✓ Understand how to read and interpret USA Dig Tickets
- ✓ Understand APWA Color Codes
- ✓ Understand common abbreviations that may be found at dig sites

Interpreting Dig Tickets

- ✓ Interpreting and reading an underground service alert (USA) dig ticket correctly is crucial to ensure the safety of excavation work and prevent damage to underground utilities.
- ✓ The following slides will outline steps to correctly interpret and read a USA dig ticket.

1. Obtain the underground service alert (USA) dig ticket.
 - The dig ticket is typically provided by the Dig Alert.

It contains important information about the location of underground utilities in the excavation area.

2. Review the contact information.

- The dig ticket will include the contact details of the person or company responsible for the excavation site. **Make sure Hampton Tedder is listed on the Dig Ticket.**
- Verify that the information matches the intended work.

3. Identify the excavation site.

- The dig ticket will specify the address or location of the excavation site. Verify that the information matches the intended work area.

4. Understand the dig site markings.

- The dig ticket will indicate the type and color of markings used to identify underground utilities.
- Common markings include paint, flags, or stakes.
- Each color represents a specific utility type (e.g., red for electric, yellow for gas, blue for water).

5. Note the utility owner information.

- The dig ticket will list the utility owners who have underground facilities in the excavation area.
- This information is crucial for contacting the appropriate utility companies for further assistance or clarification.

6. Review the dig start and end dates.

- The dig ticket will specify the start and end dates for the excavation work.
- Ensure that the work is scheduled within the designated timeframe to comply with regulations and avoid any conflicts.

7. Understand the dig type and scope.

- The dig ticket will indicate the type of excavation work being performed, such as hand digging, auguring, trenching, drilling or boring.
- It may also provide additional details about the scope of work, including the depth and size of the excavation.

8. Identify any special instructions or requirements.
 - The dig ticket may include special instructions or requirements from utility owners.
 - These instructions could involve specific precautions, equipment, or procedures to follow during excavation.
9. Contact utility owners for clarification.
 - If there are any uncertainties or questions regarding the dig ticket, it is essential to contact the utility owners listed on the ticket.
 - They can provide additional information, clarify markings, or offer guidance to ensure safe excavation practices.
10. Follow the dig ticket guidelines.
 - Adhere to the guidelines and instructions provided on the dig ticket throughout the excavation process.
 - This includes respecting the marked utility locations, using proper excavation techniques, reporting any unexpected findings or damage.



When Hampton Tedder calls for Dig-Alert to mark for the location of underground utilities:

- Hampton Tedder paints on the ground the areas we want to dig in, using white paint.
- We encircle with white paint the exact and only places we want to dig.

Hampton Tedder will request a specific radius around the area that we can dig in.

- This will be found on the Dig Ticket request.
- Hampton Tedder can NEVER dig anywhere unless Dig-Alert has marked the area.

The absence of Dig-Alert markings is an order to **NOT-DIG**.

- Get a Foreman to contact dig alert to clarify why there are no markings or lack of markings on the ground.
- Dig Alert will mark “No Utilities” within the requested radius on the dig ticket.
- If there are no utility lines in the area, it should be marked on the ground in the paint color that corresponds with the named utility.
 - See slides 21-22 for a complete list of utility color coding.

Without “No Utilities” markings on the ground; YOU MUST ASSUME POWER AND ELECTRICAL ARE HIDDEN UNDER THAT AREA!



Excavation Area

State

CA

Place

MOORPARK

Address/Street

TIERRA REJADA RD

Location

S/E SIDE OF N/E BOUND TIERRA REJADA RD, AT S/COR OF BRENNAN RD **POLE NUMBER: X11388E **MARK WITH CHALK
BASE PAINT; MARK 30 FOOT RADIUS AROUND POLE AND ANCHOR****

Work Type

REMOVING AND REPLACING ANCHOR

County

VENTURA

Zip

93021

Cross Street 1

BRENNAN RD

Cross Street 2

Responses

Hampton Tedder will request a specific radius around the area that we can dig in. The highlighted area of the Dig Ticket is where the permitted digging area will be listed.

It is NEVER permitted to dig outside of the indicated radius.



Reading a Sample Dig Ticket

Obtaining a Dig Ticket ensures that any publicly owned underground lines will be marked so that we can dig around them safely.

Having the utility lines marked, and understanding how to interpret these markings, not only prevents personal injury, but also prevents property damage to the lines.

Also, IT'S THE LAW!



A232580027

Valid Through 10/13/2023



Renewal Re-mark Return Duplicate No Response Damage/Exposed Amendment Cancel

Excavator Information

Caller: EMPLOYEE NAME
Caller Type: CONTRACTOR
Office Phone:
Language: ENGLISH

Cell: EMPLOYEE PHONE NUMBER
Office Email: EMPLOYEE@HAMPTON TEDDER.COM

Would You Like To Receive Text Message Confirmations? Yes No
Would You Like To Receive Email Confirmations? Yes No

Company Name: HAMPTON TEDDER ELECTRIC
Address: 4571 STATE ST
City: MONTCLAIR
State: CA
Zip: 91763

Site Contact Information

Site Contact: EMPLOYEE NAME
Site Contact's Phone: EMPLOYEE PHONE NUMBER

Site Contact's Cell:
Site Contact's Email: EMPLOYEE@HAMPTON TEDDER.COM

Would You Like To Receive Text Message Confirmations? Yes No
Would You Like To Receive Email Confirmations? Yes No

The first few sections on a USA Dig Ticket will be all the information needed about the company who requested the Dig Ticket and will be doing the excavation. This will provide information about the contractor as well as providing the contact information for someone who will be on site for the job.



Location Information		
County	City	Address/Street
SANTA BARBARA	SANTA BARBARA	CLIFF DR
Cross Street 1	Cross Street 2	
LOMA ALTA DR		
Location/Additional Information		
<p>S/SIDE OF CLIFF DR AT APPROX 445FT N/E OF N/E INTER OF LOMA ALTA DR PLEASE LOCATE SERVICES 20' AROUND POLES AND ANCHOR IF HAVING ANY QUESTIONS AND CONFUSION PLEASE CONTACT ME AT 909-241-9404, POLE NUMBER: 4451555E</p>		

THIS SECTION SHOWS THE LOCATION INFORMATION AND PROVIDES A SUMMARY OF THE TICKET WE SUBMITTED

The next sections on a USA Dig Ticket will be all the information needed about the location of the job site, or where the crew will be digging. This may include notes that provide further specifics about the location as well as a map of the area.



Will Any Work Enter The Street, Parkway Or Sidewalk?	<input type="button" value="No"/>	Will The Excavation Be Completely Contained Within The Pavement And NOT Go Into The Dirt Below?	<input type="button" value="No"/>
Will Any Boring Or Drilling Tools Be Used?	<input type="button" value="No"/>	Will You Be Using Any Explosives?	<input type="button" value="No"/>
Will Anything Other Than Hand Tools Be Used To Expose The Member Utilities Line?	<input type="button" value="No"/>	Is The Ticket An Emergency Ticket?	<input type="button" value="No"/>
Will Excavation Continue For One Year?	<input type="button" value="No"/>	How Has The Proposed Dig Area Been Pre-Marked In White?	

Work Start Date And Time	<input type="button" value="📅"/>	Type Of Work Being Done	Work For
09/19/2023 05:01 PM		POLE AND ANCHOR REPLACEMENT	SCE
Do You Have A Permit Number? (If Yes, Enter The #, Else Leave Blank)		Work Order Or Job Number	
Comments			

The next sections on a USA Dig Ticket will be more specifics about the job including the type of work to be done, the time and date of work, and questions regarding tools that will be used.

This section should always be reviewed as the Dig Ticket was issued with these specifics and we may be liable for damages caused by a failure to follow our proposed work type.



ATDTSOUTH	AT&T DISTRIBUTION	PHON
COXSBO	COX COMMUNICATIONS	CATV
NEXTGLAVEN	CROWN CASTLE	FIBR
SBA01	C/OF SANTA BARBARA	WATR
SCG25T	SCG TRANSMISSION	GAS
SCG4UT	SC GAS	GAS
USCENC	SC EDISON DIST - N COAST REGION	ELEC
UTFRCA01	UTILQUEST FOR FRONTIER	FIBR

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Version 1.16e

The next sections on a USA Dig Ticket will list the other entities in the same location where digging is scheduled.

All entities listed in this section will be notified of the scheduled work and will have the opportunity to respond to the notice with specific information relating to the location.



VIEW ELECTRONIC POSITIVE RESPONSE

A232580027



THIS SECTION LISTS THE DETAILS OF THE RESPONSES RECEIVED FROM OTHER ENTITIES AT OUR DIG LOCATION. EACH RESPONSE MUST BE READ THOROUGHLY.

← TICKET SUMMARY IMPORTANT DOCUME →

Ticket Summary

Your Ticket at a glance

COMPLETED
09-15-2023

EXPIRES
10-13-2023

CALLER
JACOB PATACSIL

ADDRESS
CLIFF DR
SANTA BARBARA, SANTA BARBARA
S/SIDE OF CLIFF DR AT APPROX 445FT N/E OF N/E INTER OF LOMA ALTA DR PLEASE LOCATE SERVICES 20' AROUND POLES AND ANCHOR IF HAVING ANY QUESTIONS AND CONFUSION PLEASE CONTACT ME AT 909-241-9404, POLE NUMBER: 4451555E

TYPE OF WORK
POLE AND ANCHOR REPLACEMENT

WORK DONE FOR
SCE

The next sections on a USA Dig Ticket will provide the responses from the above-mentioned entities.

All entities listed in this section will have responded to the alert with some feedback to let everyone else know if the planned work will interfere with their equipment. The beginning of this section will be a recap of the proposed work and location.

00A - NEW completed 09-15-2023

ASCENDING DESCENDING

00A

00A created

FRONTIER
UTFTRCA01

LOCATE AREA MARKED

Tue, Sep 19th 2023, 4:06:32 pm UQ Responder

AT&T - DISTRIBUTION
ATTDSOUTH

CLEAR - NO CONFLICT

Tue, Sep 19th 2023, 4:06:19 pm UQ Responder

UTILIQUEST FOR SCE DIST - NO COAST REG
USCENC

LOCATE AREA MARKED

Tue, Sep 19th 2023, 4:06:19 pm UQ Responder

WHERE THE RESPONSE STATES "CLEAR - NO CONFLICT," CREWS SHOULD UNDERSTAND THAT OUR PLANNED DIGGING WILL NOT INTERFERE WITH THE RESPONDING ENTITIES MATERIAL/EQUIPMENT.

The next sections on a USA Dig Ticket will provide the responses from the above-mentioned entities.

Each response must be thoroughly read so all concerns and requirements are respected. The contractor performing the excavation is liable for any damage caused by a failure to read/understand the responses.



WHERE THE RESPONSE SAYS ANYTHING ABOUT REQUIREMENTS, STANDBYS, OR ADDITIONAL CONTACT, THIS MUST HAPPEN PRIOR TO DIGGING AS IT IS POSSIBLE OUR PLANNED DIGGING MAY INTERFERE WITH THE RESPONDING ENTITIES MATERIAL/EQUIPMENT AND WILL REQUIRE EXTRA CAUTION.

SOCALGAS TRANSMISSION GOLETA
SCG25T

REQUIRES STAND BY AT TIME OF EXCAVATION - CONTACT FACILITY OWNER

🕒 Mon, Sep 18th 2023, 2:18:27 pm 🧑 PRSDG01 RGVASQUE

SOCALGAS DISTRIBUTION SANTA BARBARA
SCG4UT

CLEAR - NO CONFLICT

🕒 Mon, Sep 18th 2023, 11:05:03 am 🧑 PRSDG01 SRCUDAL

CROWN CASTLE- LA & VEN
NEXTGLAVEN

CLEAR - NO CONFLICT

🕒 Fri, Sep 15th 2023, 7:03:23 am 🧑 AAA

The next sections on a USA Dig Ticket will provide the responses from the above-mentioned entities.

Each response must be thoroughly read so all concerns and requirements are respected. The contractor performing the excavation is liable for any damage caused by a failure to read/understand the responses.



Additional Dig Ticket Examples

Depending on the work location, dig tickets may vary in appearance. While all of the same relevant information will appear on the dig ticket, it may not appear in the same order on the page.

A240050636-00A

EMLCFM A 01/09/24 17:01:29

USAS NEW NORM POLY LREQ



Thank you for contacting Underground Service Alert of Southern California.

This is an automated electronic positive response confirmation for the ticket number above.

For your safety please excavate carefully around the marked utility lines.

For more information regarding DigAlert's web portals, mobile apps and text messaging, please visit www.digalert.org or text Services to DIGALT (344258).

This email comes from an automated program that is NOT MONITORED.
DO NOT REPLY TO THIS EMAIL.

Excavation Area

In this example, the positive response for the Dig Alert came through as an email, rather than as a PDF attachment. Scrolling through the email, the location of the job site will still be listed, as well as all responses from other entities with equipment/materials in the proposed excavation area.

Excavation Area

State

CA

County

VENTURA

Place

MOORPARK

Zip

93021

Address/Street

TIERRA REJADA RD

Cross Street 1

BRENNAN RD

Cross Street 2

Location

S/E SIDE OF N/E BOUND TIERRA REJADA RD, AT S/COR OF BRENNAN RD **POLE NUMBER: X11388E **MARK WITH CHALK
BASE PAINT; MARK 30 FOOT RADIUS AROUND POLE AND ANCHOR****

Work Type

REMOVING AND REPLACING ANCHOR

Responses

All of the pertinent information about the job site will be listed along with specific directions to the location when necessary.

All responses will still be listed from other nearby entities and should be read through thoroughly.



Responses

ATDSOUTH	AT&T DISTRIBUTION - PHONE CLEAR - NO CONFLICT	01/07/24 09:15 AM 001
CRMSNPIP	CRIMSON PIPELINE LP HIGH PRIORITY LINE IN AREA - ON SITE MEETING REQUIRED	01/05/24 02:31 PM 033
CWD01	CAMROSA WATER DISTRICT CLEAR - NO CONFLICT	01/05/24 03:44 PM 001
SCG4UO	SOCALGAS DISTRIBUTION SIMI EXISTING MARKINGS ADEQUATE	01/09/24 11:22 AM 003
UCHTRW_N5	UTIL/SPECTRUM VENTURA - CATV CLEAR - NO CONFLICT	01/07/24 09:15 AM 001
USCENC	UTILIQUEST 4 SCE- NO COAST REG CLEAR - NO CONFLICT	01/07/24 09:15 AM 001
VENDOT	VENTURA COUNTY DOT - NO LINES Member did not respond by the required time	01/09/24 05:01 PM 999
VWW01	VENTURA COUNTY WATERWORK - WTR CLEAR - NO CONFLICT	01/05/24 04:07 PM 001
VWW02	VENTURA CO WTRWORK-SWR CLEAR - NO CONFLICT	01/05/24 04:52 PM 001



Identifying Markings and Colors

Uniform Color Code The following APWA uniform color code (ANSI Z535.1) shall be adopted as the uniform color code for marking excavation sites and underground subsurface installations in conflict with an excavation.



Proposed Excavation
(white)



Temporary Survey Markings
(pink)



Electric Power Lines
(red)



Gas, Oil & Steam
(yellow)



Communications (Telephone & Cable TV)
(orange)



Water
(blue)



Reclaimed Water
(purple)



Sewer and Storm Drains
(green)

Along with the colors indicating what facilities exist underground, corresponding-colored flags may be found indicating the direction the facilities are going.



Identifying Common Abbreviations

Guidelines for Operator Facility Field Delineation

Operator markings of subsurface installations include the following:

- The appropriate color for their facility type
- Their company identifier (name, initials, or abbreviation) when other companies use the same color.
- The total number of subsurface installations and the width of each facility
- A description of the facility (HP, FO, STL, etc.).

Facility Identifiers

CH = Chemical

SS = Storm Sewer

E = Electric

SL = Street Lighting

FO = Fiber Optic

STM = Steam

G = Gas

SP = Slurry System

LPG = Liquefied Petroleum Gas

TEL = Telephone

PP = Petroleum Products

TS = Traffic Signal

RR = Railroad Signal

TV = Television

S = Sewer

W = Water

SD = Storm Drain

W = Reclaimed Water "Purple"



Underground Construction Descriptions

C = Conduit

HH = Hand Hole

CDR = Corridor

MH = Man Hole

D = Distribution Facility

PB = Pull Box

DB = Direct Buried

R = Radius

DE = Dead End

STR = Structure*

JT = Joint Trench

T = Transmission Facility

HP = High Pressure

***Vaults, junction boxes, inlets, lift stations.**



Infrastructure Material

ABS = Acrylonitrile - Butadiene - Styrene

ACP = Asbestos Cement Pipe

CI = Cast Iron

CMC = Cement Mortar Coated

CML = Cement Mortar Lined

CPP = Corrugated Plastic Pipe

CMP = Corrugated Metal Pipe

CU = Copper

CWD = Creosote Wood Duct

HDPE = High Density Polyethylene

MTD = Multiple Tile Duct

PLA = Plastic (conduit or pipe)

RCB = Reinforced Concrete Box

RCP = Reinforced Concrete Pipe

RF = Reinforced Fiberglass

SCCP = Steel Cylinder Concrete Pipe

STL = Steel

VCP = Vitrified Clay Pipe



Reading Ground Markings

The Dig Ticket will be requested by the Construction Coordinator and passed along to the Digging Crews and the Digging Crew Foreman. The Digging Crew will be required to have a hardcopy and / or an electrical copy on the jobsite daily. (Hardcopy is preferred)

Do not dig unless you have a copy of the valid Dig Ticket on the jobsite!



White marking on the pole confirms the intended excavation area. In suitable environments, this marking would be on the ground as close to the dig site as possible.

Yellow markings near the dig site would be made by the gas/oil/steam company. In this example, they are indicating there is NO Gas present.

Blue markings near the dig site would be made by the water company. In this example, they are indicating there is NO Water lines present.

Red markings near the dig site would be made by the electric company. In this example, they are indicating there is NO SCE lines present.

Orange markings near the dig site would be made by communications companies. In this example, they are indicating there is NO Cable TV or Communication lines present.

Green markings near the dig site indicate sewage/storm drain presence. In this example, they are indicating there is NO Sewer or Storm Drains present.



Hampton Tedder Hole- Digging Crew Rules

1. Conduct a thorough tailboard.
2. Review the critical observable actions.
3. Shall have a valid USA Ticket on site.
4. Foreman or QEW must be onsite when digging within 30 inches either side of USA electrical or gas markings.
5. No Power Tools are to be used within 30 inches of either side of a USA marked gas or electric line.
6. All digging within 30 inches either side of a USA marked gas or electric line shall be hand-dug. Underground lines are to be located and extreme care taken for the safety of personnel.
7. Power tools can be used at crews' discretion if digging is 30 inches outside either side of a USA marked electrical or gas marking. Note: Best practice is to hand-dig to 24 inches to identify if any unmarked sprinkler or control wires exist.
8. There shall be no chipping on any encasement duct bank.
9. Foreman or QEW must be onsite anytime high pressure gas lines are within 8 feet of USA markings. A qualified monitor must also present on site.

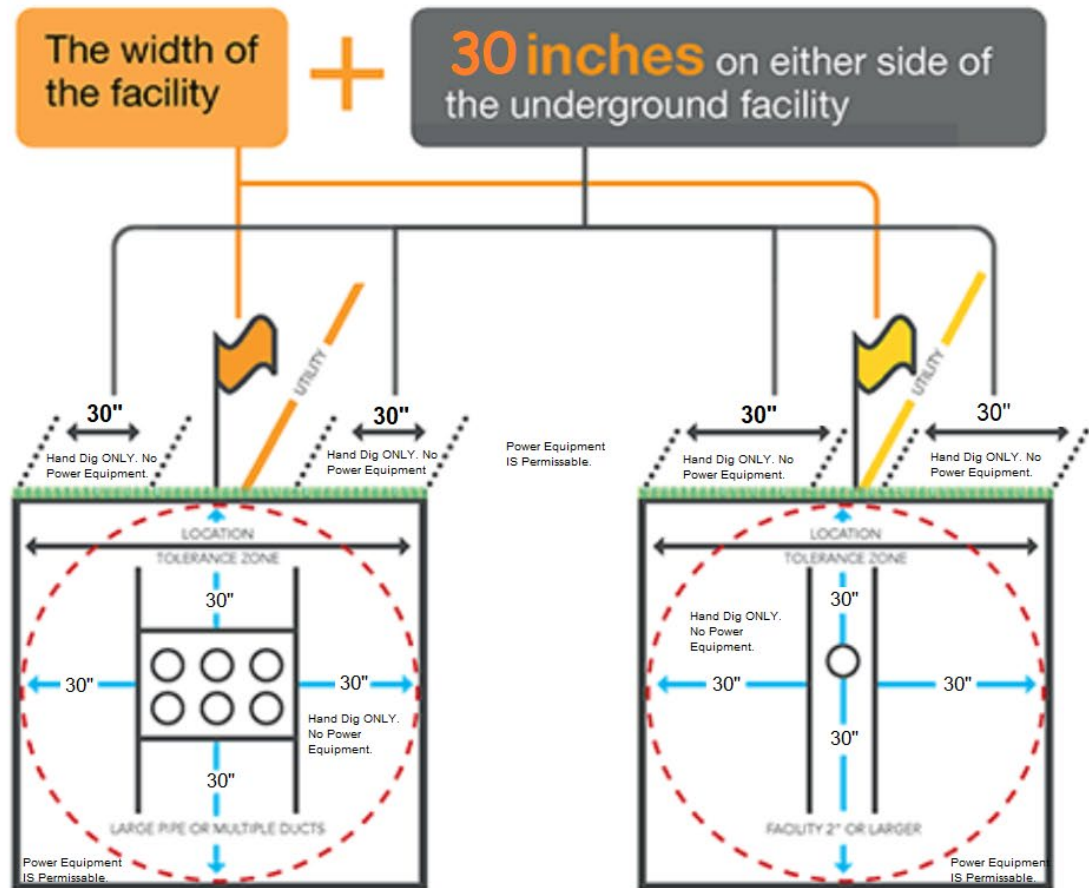


Digging in the tolerance zone

The **Tolerance Zone** is a defined horizontal space from the outside wall or edge of an underground line or pipe.

Within this area you may carefully hand dig only, **no mechanized equipment** may be used within this tolerance zone area.

Applying the best practice tolerance zone can prevent unnecessary damages, service interruptions, and injuries.



**LARGE PIPE OR
MULTIPLE DUCTS**

**SMALL PIPE
OR CABLE**

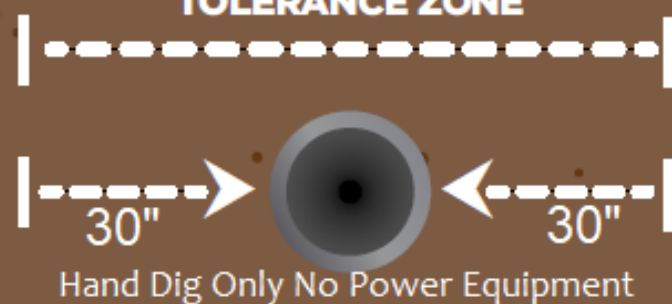
TOLERANCE ZONE



Hand Dig Only No Power Equipment

Power Equipment is Permissible

TOLERANCE ZONE



Hand Dig Only No Power Equipment

Power Equipment is Permissible

Power Equipment is Permissible

Hampton Tedder Hole- Digging Crew Rules Cont.

**NO HAMPTON TEDDER EMPLOYEE
IS PERMITTED TO CHIP ON
ENCASEMENT CONTAINING
ELECTRIC UTILITIES.**

Don't get confused with block wall footing concrete and power line encasement concrete. Assume all concrete you find underground is power line encasement and will blow up if you use power tools on it! NEVER use a jackhammer on underground concrete unless a Foreman is present and there are no power line markings within 30". The following two slides are examples of power line concrete encasement.



Types of Concrete Encasement

The type of encasement encountered will depend on the amount of protection that was required during installation:

- ✓ Concrete is described as the amount of “sack”, or the ratio of concrete (glue or cement) to aggregates (stone, gravel and sand)
- ✓ “Sack” refers to a bag of Portland cement. This is the cement powder that is added with other ingredients to create concrete
- ✓ “Sack” categories include
 - ✓ Between 2.02 – 3.50
 - ✓ Over 3.50
 - ✓ A 3.5-Sack Mix means that 3.5 sacks of Portland cement are in one cubic yard of concrete
- ✓ Higher Sack (more cement) is Stronger Concrete because it has more cement and thus harder to chip!



Typical Encasement:



2.02 – 3.5 Sack:
Concrete has 2.02-3.5
sacks of cement per cubic
yard.

Typical Footing:



Over 3.5 Sack
Concrete has 3.5 sacks of
cement per cubic yard.

All underground concrete should be assumed to be encasement until verified by a QEW.

Hampton Tedder Electric Hole Digging Quick Reference Guide

The following diagrams show requirements for properly securing poles before changing strains on anchors or on the poles. These are **REQUIRED** steps to mitigate hazards!



Excavating Near Poles

Effective immediately, trenching or excavation near poles shall maintain a 1:1 ratio with the setting depth. For example, an open trench or excavation near a 50 ft. pole would be no closer than 7 feet.

If a 1:1 ratio cannot be attained, additional support* for the pole shall be utilized. Soil types and conditions shall also be considered and may require trenching or excavation to maintain a greater distance from a pole than the 1:1 ratio described above.

Refer to T&D Hotline: Ref. No. HL-0924, 8/22/2024

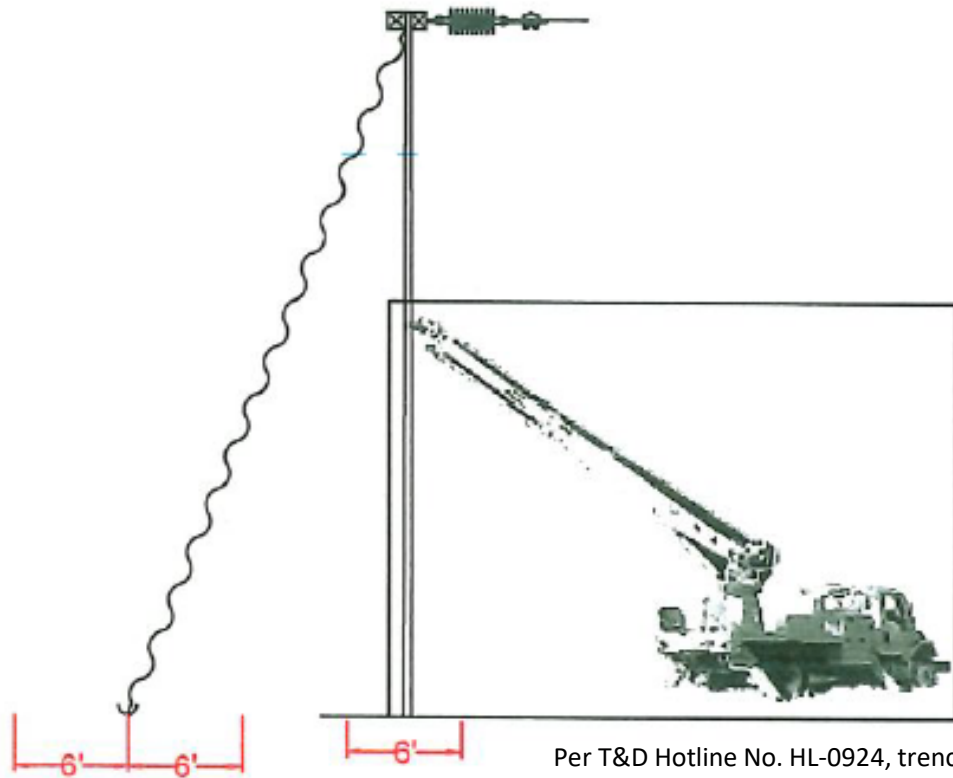


Examples of Additional Support

Examples of additional support include, but not limited to:

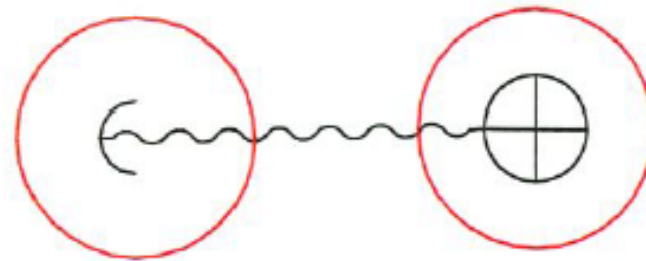
- Boom, crane, or similar equipment to support the pole
- Temporary cribbing
- Temporary breast block
- Temporary shoring
- Temporary guying
- Securing base of pole to fixed object capable of maintaining support
- A stub pole
- Pole Pikes

Deadend Pole



Per T&D Hotline No. HL-0924, trenching or excavation near poles shall maintain a 1:1 ratio with the setting depth.

**NO DIG ZONE
UNLESS POLE
TEMPORARILY SUPPORTED**



**NO DIG ZONE
6' RADIUS
UNLESS POLE
TEMPORARILY SUPPORTED**

**NO DIG ZONE UNLESS
POLE TEMPORARILY
SUPPORTED**



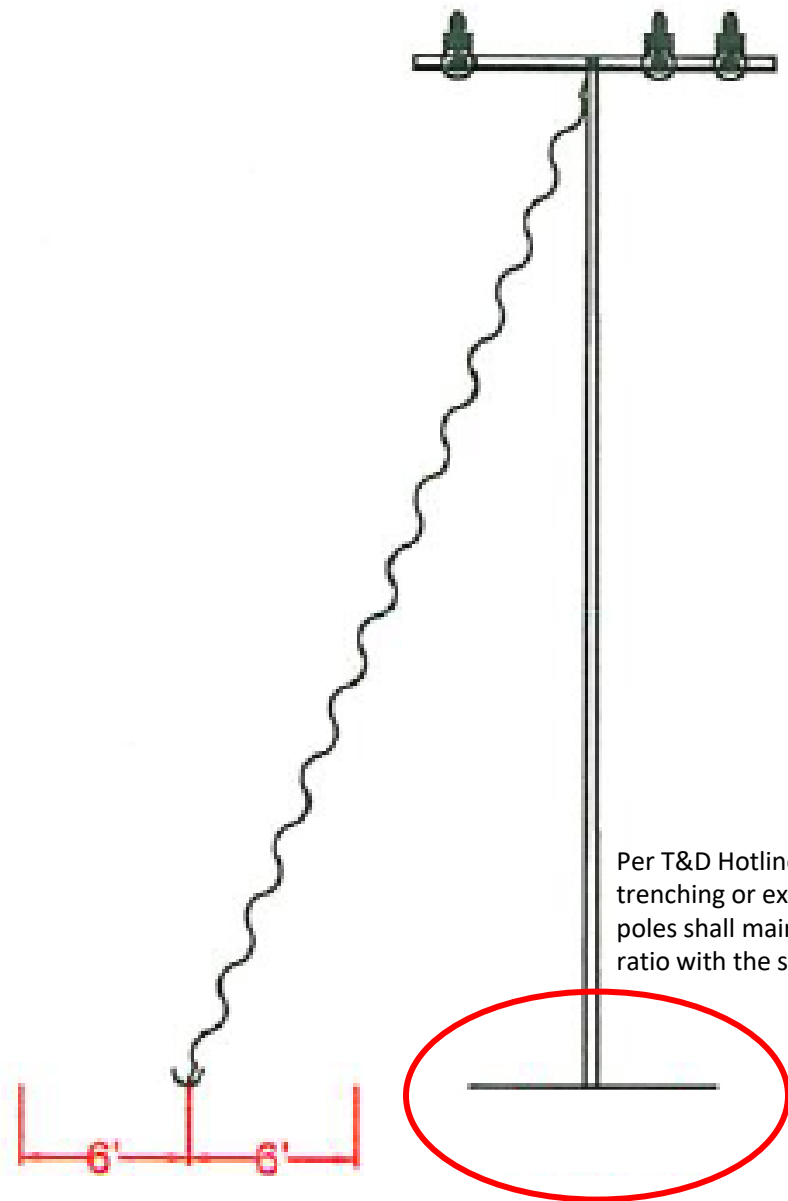
Per T&D Hotline No. HL-0924,
trenching or excavation near
poles shall maintain a 1:1 ratio
with the setting depth.

Tangent Only

**NO DIG ZONE UNLESS POLE
TEMPORARILY SUPPORTED**



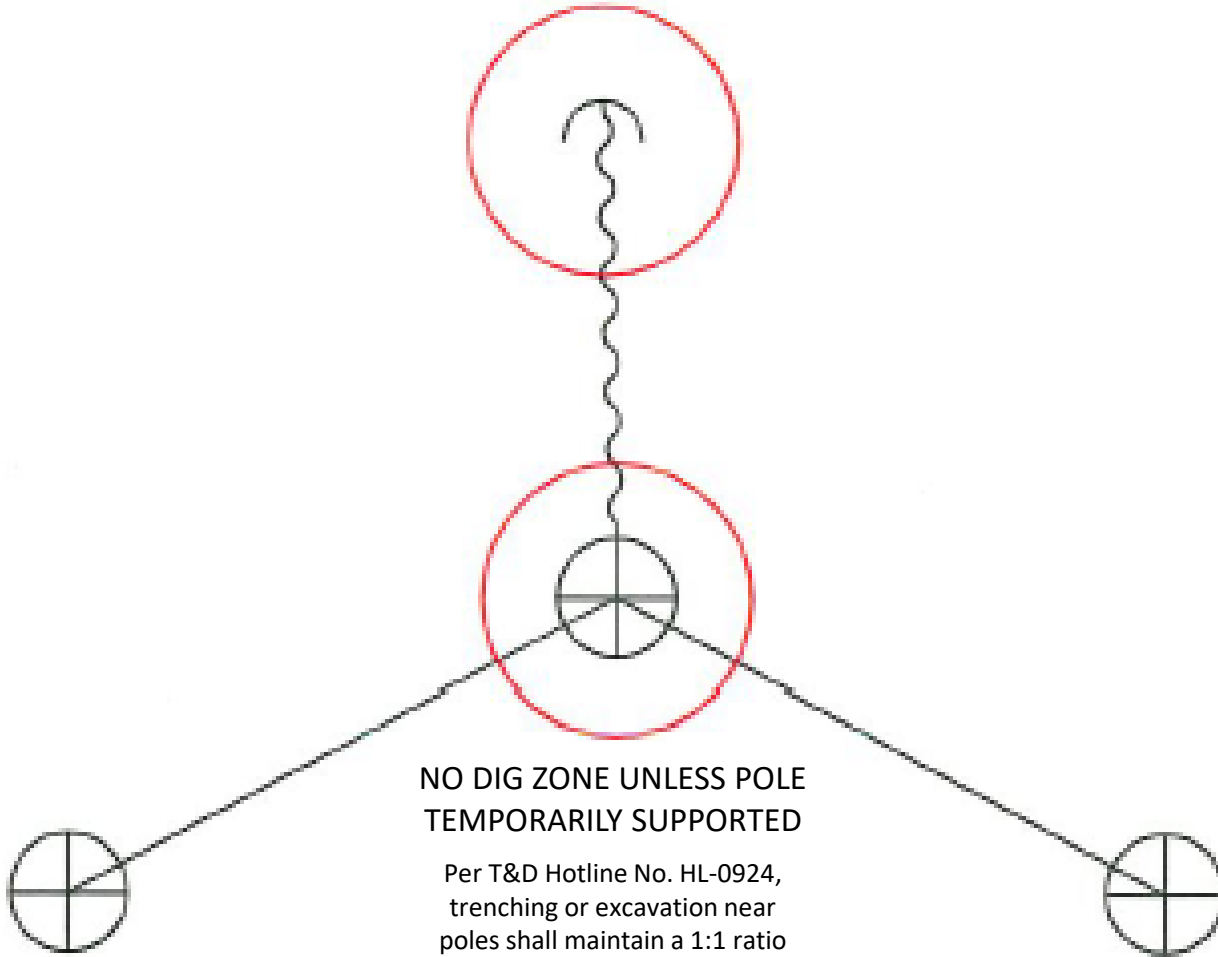
Angle Pole



Per T&D Hotline No. HL-0924,
trenching or excavation near
poles shall maintain a 1:1
ratio with the setting depth.

**NO DIG ZONE
UNLESS POLE
TEMPORARILY SUPPORTED**

NO DIG ZONE
6' RADIUS
UNLESS POLE
TEMPORARILY SUPPORTED



NO DIG ZONE UNLESS POLE
TEMPORARILY SUPPORTED

Per T&D Hotline No. HL-0924,
trenching or excavation near
poles shall maintain a 1:1 ratio
with the setting depth.

No Dig
Zone

Importance of Understanding Ground Markings

Digging without a Dig Ticket can be very dangerous and can lead to serious injury or death. It can also cause property damage and expensive repairs. Our goal is to make sure our employees stay safe and injury-free.

PLEASE DO NOT DIG WITHOUT A VALID DIG TICKET!!













RULES TO SAVE YOUR LIFE!

What you MUST
LEARN & MUST
COMPLY with
from this training

1. **FOREMAN (FOREMAN OR GENERAL FOREMAN) MUST APPROVE ALL DIGGING**: Never dig in an area until your Journeyman Lineman Foreman approves you to dig! **Foremen shall have circuit maps available for all areas to dig to ensure proximity to UG lines and equipment. When possible, have Fast Curve Settings enabled on circuits near the excavation site. (If Fast Curve is not in effect)**
2. **NEVER DIG WITHOUT VALID DIG TICKET**: Never dig unless you have a Valid Dig Ticket from Dig-Alert (USA or Dig-Alert). A valid ticket means Dig Alert employees have been to the site, marked the location of the underground utilities and issued the foreman a valid dig ticket document. The **Dig Ticket Must have Hampton Tedder on the form as company performing excavation**. When Dig alert employees visit and mark a site they use different color spray paint, flags or stakes to identify the location of underground Electrical, Gas, Communications or Water. Red for Electrical, Yellow for Gas, Orange for Communications and Blue for Water. Most importantly if there are No-Underground Utilities Dig Alert will paint on the ground or mark with flags "NO UTILITIES EXIST". THE LACK OF NO-MARKING IS A WARNING DIG ALERT MISSED MARKING FOR UNDERGROUND ELECTRICAL OR GAS AND IT IS NOT SAFE TO DIG! Dig Alert will identify if there are no utilities at the site and paint on the street: No-Electrical (in red paint), No-Gas (in yellow paint), No-Communications (in orange paint) and No-Water (in blue paint). **If there are no marking digging is not approved!**
3. **DIGGING NEAR POWER POLES IS EXTREMELY DANGEROUS!**: Digging around power poles is **Dangerous!** You risk Electrocution, Explosion and Death if you dig into an energized Electrical or Gas line! **You must memorize and comply with this training** to keep yourself, your co-workers and the public safe from injury up to and including death!



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4. **NEVER USE POWER EQUIPMENT (OR HAND TOOLS) TO DIG INTO UNDERGROUND CONCRETE ENCASEMENTS:** Never use jackhammers, power tools, mini-excavators, backhoes or hand tools to chip away or pierce underground concrete encasements. They could and probably do contain energized electrical cables that will **BLOW-UP** and **KILL-YOU**, when your jackhammer, power tool, mini-excavator, backhoe or hand tools pierces the energized electrical cables.
5. **JACKHAMMERS, POWER TOOLS, MINI-EXCAVATORS & BACKHOES HAVE STRICT LIMITED USE:** There are specific areas you can dig in with hand tools and likewise there are specific areas you can dig in with power tools or mini-excavators or backhoes. You must learn these areas from this training. You must **NEVER-DIG** in an area if you are unsure or have a question. Your Journeyman Lineman Foreman is there to answer your questions. If he is unavailable...**DO Not Dig!**
6. **HAND DIG 30" WITHIN MARKED UTILITIES:** Always **Carefully** Hand Dig - Within 30" of a marked Electrical, Gas, Communication or Water Line. **NEVER CHIP ON UNDERGROUND CONCRETE!**
7. **NEVER DIG NEAR POWER POLE ANCHOR:** Do not change strain on a pole or anchor without properly stabilizing the pole. Utilizing heavy equipment or temporary guying, do not dig around the pole or the anchors (within 6'). Changing the strain can cause unwanted damage to the pole or can cause the anchor to let go and create an unsafe situation with the pole and wire.
8. **NEVER DIG OUTSIDE DIG TICKET APPROVED AREA:** Never Dig - Farther away from pole or structure as designated on dig ticket. Often 25', 30' or 50'.





Questions?