



TULLAHOMA
UTILITIES AUTHORITY

ADVERTISEMENT FOR BIDS

The Tullahoma Utilities Authority will be accepting sealed bids for F/Y 2025 Electrical Distribution Line Clearance Right of Ways until 2:00 PM Thursday March 28, 2024. For Specifications and bidding instructions visit: www.tub.net

Advertisement to run in the following edition of the Tullahoma News:

Sunday March 17, 2024

Classified section 2" x 3" black and white.

Tulahoma Utilities Authority
P.O. Box 788
901 S. Jackson Street
Tulahoma, TN 37388
Phone 931-455-4515

Dear potential bidder:

The Tulahoma Utilities Authority is currently soliciting bids for our Right of Way program.

All sealed bids must be returned by **2:00 P.M. Central Time, Thursday March 28, 2024.** Questions about the process or the bid should be directed to Timothy Howell at 931-455-4515.

OPTION TO RENEW.

THE CONTRACT WILL CONTAIN A PROVISION THAT GIVES TUA THE RIGHT TO EXTEND THE CONTRACT FOR SUCCESSIVE ONE-YEAR PERIODS FOR A MAXIMUM OF TWO (2) ADDITIONAL YEARS UNDER SAME TERMS AND CONDITIONS AS IN THE ORIGINAL CONTRACT WITH A MAXIMUM INCREASE OF TWO PERCENT (2%) IN COMPENSATION PER YEAR.

Bids may be hand delivered, sent by mail or delivery service such as UPS or FedEx and must be addressed as follows:

Tulahoma Utilities Authority
P.O. Box 788
901 S. Jackson St. Tulahoma, TN 37388
Attn: Timothy Howell/Purchasing Agent

And clearly marked:

“SEALED BID-Right of Way Program” DO NOT OPEN

The winning bidder must produce required insurance documentation before contract is awarded.



Distribution Line Clearance Program & Specifications

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Distribution Line Clearance Program

1.0 INTRODUCTION

The scope of these specifications is to provide a reference and give some general guidance in the requirements and expectations for line clearance trimming, removal, or re-clearing of vegetation in close proximity to TUA's energized distribution lines that are located on public and/or private rights-of-way. This scope of work may also include the clearing of new right-of-way to extend services TUA provides.

2.0 PREPLANNING

TUA, the Utility Forester, or the Work Planner will scout, preplan, and prioritize all vegetation management activities. Typically, Units of work will be marked with paint as follows. Brush will be identified by a painted slash on the stems or along boundaries. On the trunk, a "dot" will indicate a Primary Trim, "CR" a Drop Crotch Trim, and "ST" a Secondary / Service Trim. Vegetation to be removed will be marked with an "x", "x 10", or "x 20" as applicable and measured at **Diameter Breast Height**. TUA, the Utility Forester, or the Work Planner will summarize the number of units per location in a format known as the "Line Clearance Plan". The CONTRACTOR that is awarded the CONTRACT will complete those plans in accordance with TUA's Distribution Line Clearance Program & Specifications.

3.0 BID UNITS

Units for the purpose of Bidding and the typical scope of work are defined as follows.

Brush: Any woody stemmed plant with a DBH of less than four inches.

Tree: Any woody stemmed plant with a DBH of four inches and greater.

Utility Clearing Zone (UZ): The area 15' on either side of a pole centerline and is a typical ROW.

Brush Unit: 500ft² as measured drip line to drip line and includes stump/ stubble treatment.

Primary Trim (PT) Unit: A Tree with less than 50% of its crown under a line.

Drop Crotch Trim (CR) Unit: A Tree with more than 50% of its crown under a line.

Secondary / Service Trim (ST) Unit: A Tree near a secondary wire but at a point 6' beyond a Primary Trim's Minimum Clearance.

Removal (4-10") Unit: This unit includes the treatment of the remaining stump(s).

Removal (10-20") Unit: This unit includes the treatment of the remaining stump(s).

Removal (20-30") Unit: This unit includes the treatment of the remaining stump(s).

Stump Removal Unit: This alternative Bid Unit includes the grinding of a stump and all major roots to a depth of at least 8". Included in this Bid Unit is the use of 811, the proper disposal of debris, verification of clear depth by TUA, and then the reestablishment of the grade using topsoil before seeding and mulching at a recognized rate. The Bid Unit will be for each stump and for those less than 30 "in width and those greater than 30" in width.

Mechanical Re-clearing Unit: This alternative Bid Unit consists of a less selective form of clearing vegetation and is more closely related to bush hogging and/or the shearing of encroaching vegetation into the UZ. The Bid Unit will be by the acre with any required minimums noted and shall include all mobilization and operational costs.

4.0 BIDDER QUALIFICATIONS

- 4.1** **Requested Information** The BIDDER is required to provide complete and detailed responses to all requested information. Failure to comply with any request shall result in a BIDDER being deemed an UNQUALIFIED BIDDER.
- 4.2** BIDS from experienced, well-established, and qualified CONTRACTORS is desirable. That is those that have been properly trained and have experience in power line clearance of vegetation. No BID shall be considered from any BIDDER unless they can show they will have a skilled on site crew foremen and crew that have experience in work that is similar to TUA's. Every person on the CONTRACTOR'S Crew will be of reliable character as their presence is a reflection on TUA.
- 4.3** The BIDDER shall indicate how their business plans, plant facilities, and work load is arranged and sufficient as to meet the schedules called for in this CONTRACT. TUA will determine that ability based upon information furnished by the BIDDER. TUA must be satisfied of a BIDDER'S qualifications, experience, and familiarity with this type work and their financial ability to properly prosecute the proposed CONTRACT.
 - 4.3.1** The evidence requested without being limited thereto and to include the following.
 - 4.3.2** A list of all clearance work performed near energized power lines within the past five years and that is presently under contract. The BIDDER shall submit that list with the name of the Company, their primary contact, and a current phone number. BIDDER shall furnish all pertinent information and/or their qualifications, including but not limited to references that will enable TUA to judge the BIDDER'S relevant experience, special skills, and their proven ability to complete the work within this CONTRACT.
- 4.4** BIDDER shall furnish detailed information on any prior or pending contractual penalties, legal proceedings, lawsuits, or claims levied against the BIDDER contending breach or noncompliance with another contract.
- 4.5** The BIDDER shall submit the average number of pole line miles or units a full 3 person crew can complete in an average work week.
- 4.6** TUA may elect not to accept any BIDS and change specifications and/or rebid.
- 4.7** BIDDER must review TUA's Contractual agreement and agree to ALL terms BEFORE submitting a BID.

- 4.8 While attendance to a pre-Bid meeting is not mandatory, a lack of attendance does not excuse the BIDDER from any CONTRACT obligations held within these specifications.

Qualified Bidder Information is to be provided on the Summary Page

5.0 SCOPE OF OPERATIONS: TRIMMING, REMOVALS, RECLEARING

- 5.1 **Trimming** will include any incompatible vegetation within the Utility Clearing Zone (UZ) as identified by TUA, the Utility Forester, or the Work Planner. Generally, our typical UZ is 30' in width (15' on either side of the pole centerline) and does not require an absolute 30' clearing from ground to sky. The UZ can extend outward and beyond in order to properly trim or mitigate potential hazards. TUA's Goal is to maintain reliability and better "storm proof" its Primary Distribution Lines. Trimming shall include the removal of all dead, dying, or defective limbs and overhangs that present a hazard. However, should there be any overhang directly over the conductors trimming will be necessary with some exceptions being shown on **Appendix C**. All other exceptions will need to be preauthorized by TUA, the Utility Forester, and/ or the Work Planner. See **Section 7.0**.
- 5.2 **Removals** will include any vegetation and with a DBH of at least 4" and greater which may interfere or endanger the safe operation and or maintenance activities in proximately to TUA's Primary Distribution Lines now or in the foreseeable future. Removals may be outside the UZ in order to mitigate a potential hazard. Removals unless otherwise noted will require the property owner's consent and should be identified on the Line Clearance Plan. All Removals require that the remaining stump be cut as close to the ground as is practical and treated according to **Section 8.0**. In some circumstances a stump may need to be removed. TUA is requesting an alternative Bid for Stump Removal.
- 5.3 **Mechanical Re-clearing** is the use of some mechanical means to clear or re-clear a ROW. That method will require the CONTRACTOR Operator to use the upmost care to protect the public from flying debris and should not be used in close proximity to any dwelling and with extreme caution along any road. The operator should avoid damaging vegetation that has been deemed compatible by TUA. TUA is requesting an alternative Bid for Mechanical Re-clearing.
- 5.4 **Manual Re-clearing** Where incompatible vegetation is present but not situated in a mechanical accessible area, such as near poles, guy wires, or wet areas, the CONTRACTOR shall be responsible for clearing those areas by hand unless exceptions are otherwise authorized by TUA, the Utility Forester, and/ or the Work Planner, or has been noted on the Line Clearance Plan.
- 5.5 **Danger Trees** All dead, dying, or structurally defective trees which endanger TUA's Primary Distribution Lines are considered Danger Trees. They shall be routinely removed as part of this CONTRACT. In some situations a tree will be modified to insure a Safe Fall or Clear Fall condition and noted on the Line Clearance Plan. Such trees will be marked with a "CF" and are to be invoiced as a Removal Unit that is one size smaller than the remaining, standing DBH.

- 5.6 **Growth Regulators** TUA may elect to allow the use of a pre-approved plant growth regulator (PGR) as part of its Line Clearance Program. Treated vegetation will be tracked and managed differently. No vegetation that has been treated will be trimmed without the preauthorization and under the direction of TUA, the Utility Forester, and/ or the Work Planner.

6.0 LINE CLEARANCE TRIMMING STANDARDS

- 6.1 **Interfering Vegetation** All vegetation interfering with the safe operation and maintenance of overhead primary lines and structures shall be trimmed, removed, or re-cleared as per approved methods. TUA, the Utility Forester, and/ or the Work Planner shall be notified of any situation where the preplanned work on the Line Clearance Plan cannot be accomplished.
- 6.2 **Line Clearance** All trees should be trimmed using proper Arboricultural techniques (*ANSI A300 Standards & Section 5.9 Utility Pruning*) and have been described in greater detail in **Appendix B**. No trim units should be less than those shown on **Appendix C** unless an Exception* has been authorized.

* Exceptions may be noted on the Line Clearance Plan or be allowed where in TUA determines the removal of major limbs would drastically alter the shape of the tree and/or result in an unsafe condition and/or interfere with the operation and maintenance of an overhead Primary Line(s).

- 6.3 **Primary Open Wire** Trees shall be trimmed so as to provide a minimum clearance from primary conductors that will last thru five years of growth (**Appendix C**). Consideration of the voltage and the importance of the Primary Line(s) as well as the type and apparent health of the encroaching vegetation are considered when making a determination as to what clearance is necessary.

All dead, dying, defective trees or vegetation which endangers the safe operation and maintenance of TUA's Primary should be removed as noted on the Line Clearance Plan. Larger trees which only endanger service or secondary wires shall not be removed without the approval of TUA, the Utility Forester, and/ or the Work Planner, or as noted on the Line Clearance Plan.

- 6.4 **Secondary and Service Lines** All secondary and services lines within 6' of a Primary Open Wire should be trimmed to be clear of trees as a Primary Trim. In cases where the Line Clearance Plan requires a Secondary/Service Trim, 1' of clearance should be obtained (**Appendix C**). That work will be counted as a separate unit and marked in the field with an "ST". Circumstances and conditions that would warrant such include:

Triplex - pushing out of sag, rubbing on, leaning on
Duplex - pushing out of sag, rubbing on, leaning on
Open wire - Notify TUA and then trim appropriately.
TUA Fiber Optic Service

- 6.5 **Shaping** Trees will not be rounded over unless specifically authorized by TUA, the Utility Forester, and/ or the Work Planner. That practice has shown to

create additional trimming and encourage adventitious re-growth that is poorly attached.

- 6.6 Removal Debris – Landscape & Developed Areas** brush and debris shall be completely removed and properly disposed of according to **Section 8.0**.

7.0 PRUNING PROCEDURES

- 7.1 Selective, Natural, Targeted, or Lateral Pruning** Whatever the term, this approach is expected by TUA and requires the CONTRACTOR to plan their work before beginning. This system of pruning will be used to achieve the required clearances, promote a healthier plant, and maximize the time between trim cycles. It can and shall be used for all types of trimming. Plants where indiscriminate trimming has occurred in the past can be corrected but may require several trim cycles in order to do so.
- 7.2 Primary, Drop Crotch Trimming** These types of trims should be done in conjunction with a selective, natural, and / or targeted system of pruning. All correct trimming involves the removal of some limb from a point and in such a manner where compartmentalization can naturally occur or structurally sound re-growth begin, continue, and remain. New growth that is in a direction that is away from the Primary is desirable. Drop Crotch Trimming has been recognized as the most effective technique for line clearance trimming when applicable and Crown Reduction Trimming more drastic and short lived. See **Appendix B** for more detail.
- 7.3 Use of climbing spurs and spikes** To protect the health of any tree no climbing spurs will be used.

8.0 BY- PRODUCT DISPOSAL

By-Products as part of this CONTRACT are to be disposed of as follows unless prior arrangements have been made with TUA, the Utility Forester, and/ or the Work Planner.

*** In no case will debris be left in excess of 14 calendar days.**

TUA will provide the CONTRACTOR a suitable and secured site for the disposal of debris being generated only as a part of this CONTRACT. The CONTRACTOR must provide a lock to “lock in” to TUA’s and then insure that this disposal site is kept secure when the CONTRACTOR is not on site. Should debris not be disposed of as directed or this site left unsecured the use and benefit of such may be revoked. Then the responsibility for the disposal at a proper site will become that of the CONTRACTOR and cease to be a part of this CONTRACT. If the CONTRACTOR chooses to dispose of debris at another location it must provide TUA with signed proof of permission and any terms related to that arrangement. TUA does not allow debris to be burned.

Roadway Areas Debris shall not remain within the ROW of any state, county, or private roadway overnight. Where an electric line is adjacent to a state, county, or private roadway, debris may be left outside of the ROW overnight until they can be disposed of properly.

Drainage or Water Courses No debris shall be left in any waterway that would impede its function.

Fences or Trails No debris shall be left that interfere with the intended use and/or maintenance of fences or trails.

Pastures or Croplands No debris shall be left in pastures or croplands.

Public or Private Property All line clearing by-products/debris (brush, limbs, logs, chips, etc.) must either be: Immediately removed from the property (or)

Left on the property at the property owners request (or)

Left in a safe state, neatly stacked, and close to the right of way or property line for pickup in the future * but only after the CONTRACTOR has made the property owner aware of their intentions

9.0 STUMP SPRAY

Stump treatments are required for all vegetation that has been removed as per **Section 3.0**. The selection of treatment shall be pre-approved by TUA, the Utility Forester, and/ or the Work Planner with copies of the approved product label and Safety Data Sheets provided. It is the CONTRACTOR'S responsibility to maintain all required documentation for the proper storage, transportation, and use of the product and to insure its' crew(s) are applying and using it in accordance with the manufactures labeled directions. All treatments shall include a colored indicator so treated vegetation is readily identifiable.

TUA requires the CONTRACTOR to follow all Environmental Protection Agency and State of Tennessee Regulations as it pertains to the use of any product on behalf of this CONTRACT.

10.0 WORK PROCEDURES

- 10.1 Inspection - Field Survey** All vegetation within the Utility Clearance Zone (UZ) will be inspected by TUA, the Utility Forester, and/ or the Work Planner to determine the scope of work and mark vegetation accordingly. All planned work will be indicated as part of a Line Clearance Plan. If clearances are deemed adequate and will remain so until the next trim cycle no work will be scheduled.
- 10.2 Line Clearance Plan** The CONTRACTOR'S Crew Foreman shall be familiar with common plant species and have a general concept of sound Arboriculture practices.
- 10.3 Crew Location** The general location of all CONTRACTOR crews shall be known each and every day the CONTRACTOR is working on TUA's System. Changes in location or jobs will be reported to TUA, the Utility Forester, and/ or the Work Planner.

11.0 NOTIFICATION TO PROPERTY OWNERS

All work to be performed as part of this CONTRACT that is on private property will be from utility easements or rights-of-way; however, access to those areas will frequently be across private properties. In the interest of public relations, TUA, the Utility Forester, and/ or the Work Planner will have made attempts to notify the property owners of upcoming utility work, but ultimately it will be the responsibility of the CONTRACTOR to advise the property owners that they will be encroaching upon a customer's property in order to perform line maintenance/clearance work. Access to properties is the CONTRACTOR'S responsibility.

12.0 PUBLIC SAFETY

Trees will be trimmed so as to discourage climbing and help to provide increased safety against possible and incidental wire contact by nearby persons and/ or any vegetation. Whereas any tree/ or vegetation is burning on a conductor and the property owner refuse permission to trim or remove such vegetation the CONTRACTOR must report that situation as soon as possible to TUA, the Utility Forester, and/ or the Work Planner.

13.0 WORK WEEK

Normally, no CONTRACTOR will be allowed on a customer's property between the hours 7PM to 6AM, Monday - Saturday and all day on Sunday. The actual work schedule will be determined by the CONTRACTOR in conjunction with TUA, the Utility Forester, and/ or the Work Planner. Changes to the work schedule shall be by mutual agreement.

14.0 QUALITY OF WORK

All work performed by the CONTRACTOR is subject to inspection and the final approval of TUA, the Utility Forester, and/ or the Work Planner.

Any work not meeting CONTRACT specifications will be reworked at a cost born by the CONTRACTOR. The CONTRACTOR is responsible for the timely repairs for any damage to a customer's property or to any of TUA facilities as part of and during the course of completing the prescribed work. In the event that those repairs are not to the satisfaction of TUA, TUA may elect to repair such damage and hold the CONTRACTOR responsible.

15.0 REPORTING

The CONTRACTOR shall provide any necessary information on an as requested basis as to the status of work on their copy of the Line Clearance Plan. Information that should be kept on a daily basis as part of this CONTRACT by the CONTRACTOR include: the date work was performed at any address, the number and types of work Units, any agreed upon changes/ corrections to the original Line Clearance Plan, and any concerns a TUA Customer has expressed.

After a Line Clearance Plan has been satisfactorily completed TUA should receive an invoice within 15 days. For preauthorized Time and Materials (T& M) Units, the crew foreman shall provide TUA with a daily time sheet that indicates the number of hours, equipment used, and the composition of the crew(s).

16.0 PERSONNEL SAFETY AND TRAINING

Line Clearance work included under this CONTRACT will be performed in proximity to energized conductors of TUA's Electric Distribution System. The CONTRACTOR will establish and conform to all safe work practices, rules, and regulations appropriate for such work as well as comply with any operating procedures established by TUA. The CONTRACTOR shall meet all OSHA, ANSI Z-133.1, and State of Tennessee (TOSHA) Safety Requirements.

It shall be the CONTRACTOR'S sole duty and responsibility to notify, inform, and insure that its employees, servants, agents, or subcontractors are so instructed, skilled, knowledgeable, trained,

and experienced enough to know and appreciate the dangers of energized conductors and are careful enough to avoid harm, damage, or injury to themselves, their fellow workers, employees of TUA, and/or the general public while performing under this CONTRACT. The CONTRACTOR will furnish those aforementioned persons with competent supervision, and insure that they have safe, sufficient, and the adequate tools and equipment so the terms of this CONTRACT can be executed in a safe manner while existing electrical equipment of TUA remains energized. The CONTRACTOR(S) shall not de-energize any of TUA's Systems.

Should an outage or contact occur as a result of activities as part of this CONTRACT, the CONTRACTOR **shall** have in place a written and well rehearsed Emergency Action Plan. TUA, the Utility Forester, and/ or the Work Planner must be notified immediately once an area has been initially secured.

17.0 PERSONNEL, TOOLS, AND EQUIPMENT

17.1 Labor, Tools, Equipment, Transportation, Materials All labor, tools, equipment, transportation, and materials shall be furnished by the CONTRACTOR and shall be adequate in number, maintained, and remain in proper operating condition. The CONTRACTOR'S employees shall appear neat and remain so as job conditions permit. Crew members shall not wear clothing that is ragged, overly worn, or is considered to be distasteful by TUA. They are expected to conduct themselves in a professional and courteous manner at all times. The CONTRACTOR shall provide the minimum staffing levels necessary to complete the work described in the Line Clearance Plan. All work must be completed by any deadlines that are set in this CONTRACT.

17.2 Contractor Equipment The equipment used by the CONTRACTOR shall be maintained, in good operating condition, and remain reasonably neat at all times. TUA may at its' discretion, release any crew it determines to have, tools, equipment, vehicles, or other components that are not safe or in proper operating condition. The recommended minimum equipment for a full operating crew follows.

17.3 Communications Equipment TUA may elect to provide communications equipment to the CONTRACTOR for their crews. Any equipment loaned to the CONTRACTOR shall be used only in the performance of this CONTRACT and returned in the same condition as it was issued at the completion its use. Lost or damaged equipment will be replaced and/ or repaired by the CONTRACTOR.

Recommended Minimum Equipment (3-persons)

Work Zone Signs, Traffic Control Paddles & Cones (as required by Local, State, or Federal Laws)

First Aid Kit, Fire extinguisher

Safety hat, Safety glasses, Hearing protection, Reflective Safety Vest 1/person

Saddle, Climbing Rope 120'x 1/2" 1/climber

Climbing spurs * removals only 1/climber

Sm. chain saw (max. 3.0 cubic inches or may be hydraulically driven)

Hydraulic driven pole pruner

Snatch Block or equivalent

Lowering ropes (2) 120' min. x ½" and (2) 120' min. x ½" +
Med. sized chain saw (3.0 - 4.0 cubic inches), Leg guards/chaps 1/chainsaw operator
Lg. sized chain saw (over 4.0 cubic inches with min. 24" bar), Leg guards/chaps "
Chipper
Pole pruner (min. 12' length), Handsaw
Cant hook
Sledge hammer
Wedges
Leaf rakes, Scoop Shovel, Broom
Water cooler/cups

18.0 SYSTEM MAPS

TUA will provide the CONTRACTOR with any necessary maps to facilitate the routing of its' crews. Maps shall be returned to TUA when an area has been satisfactorily completed.

19.0 BILLING, INVOICING, AND TERMS OF PAYMENT

19.1 Billing Units TUA's Distribution Line Clearance Program is UNIT BASED. All costs (including fuel, mileage, meals, equipment, etc.) shall be incorporated into the UNIT BID Price.

19.2 Time and Material (T&M) Billing must be preauthorized by TUA, the Utility Forester, and/ or the Work Planner, and may be indicated on the Line Clearance Plan. TUA will typically authorize T&M Units for the following:

Removing a tree with a DBH of greater than 30"
Removing and/or trimming a tree or plant that may be unusually difficult or pose a unique hazard
Executing storm related assignments - "Hot Spotting "
Establishing a new ROW, assisting with improvements or Work Orders
Additional work that may be required for customer service that is beyond those in the original CONTRACT specifications.

*** In no case will the TUA pay for T&M work that was not preauthorized.**

19.3 Invoicing When a Line Clearance Plan has been completed to the satisfaction of the CREW FOREMAN & the Utility Forester and/ or the Work Planner, the CONTRACTOR should submit an Invoice. Invoices will be reviewed to insure the number of Units and the current Contracted Rates have been applied before being further processed.

19.4 Terms of Payment Typically, Invoices are paid once a month with a Net of 30 days likely.

* The CONTRACTOR will be responsible for procuring an area in which to park and /or store their vehicles and equipment as part of this CONTRACT.

Summary Page

Utility Experience:

Current Contracts (Company, Contact, Phone #):

Pending Litigation or Contractual Penalties:

Units or Line Miles that an average crew can completed per week:

Additional Qualifications:

Unit Bid Page

This Service Contract shall be for the period of July 1, 2024 through June 30, 2025 and may be extended annually as subject to the following terms. A Service Contract may be renewed in one year increments up to two additional times under the same terms and conditions as the original Service Contract. The cost may be negotiable but shall not be increased by more than 2% during any renewal period.

TUA reserves the right to terminate this Service Contract by giving at least 5 days working notice. Contractor shall adhere to TUA's Specifications.

TUA will be the sole and final authority on any questions relating to or administering this Service Contract.

The following BID Unit costs as part of TUA's Distribution Line Clearance Program shall be in effect from July 1, 2024 through June 30, 2025.

Unit Brush/Trims:

Brush "Cut & Treat" (Unit = 500ft²)
Primary Trim
Drop Crotch/Crown Reduction
Secondary Trim

Amount per Unit:

\$ _____
\$ _____
\$ _____
\$ _____

Unit Removals by DBH:

Over 4" up to and including 10"
Over 10" up to and including 20"
Over 20" up to and including 30"
Over 30" *

\$ _____
\$ _____
\$ _____

at Time and Materials Rate

Time and Materials:

Manual (3 persons)
Bucket (3 persons)

Amount per Crew Hour:

\$ _____
\$ _____

Alternative Unit Bids

Stump Removal by width:

30" or less
Over 30"

Amount each:

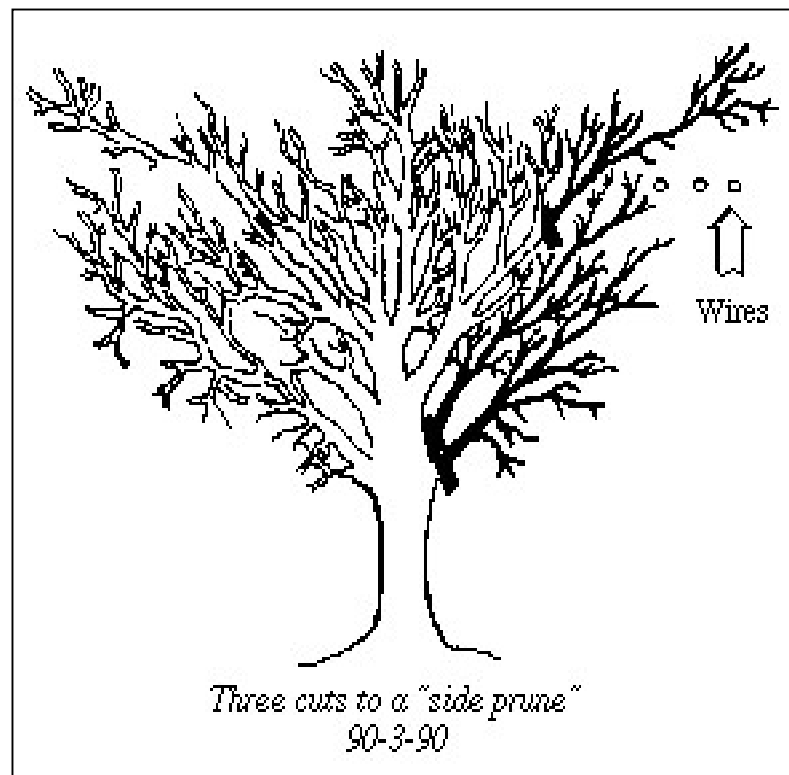
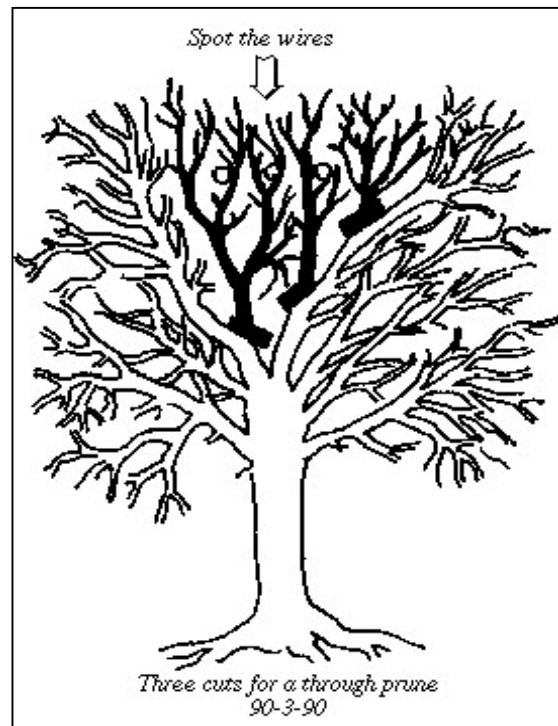
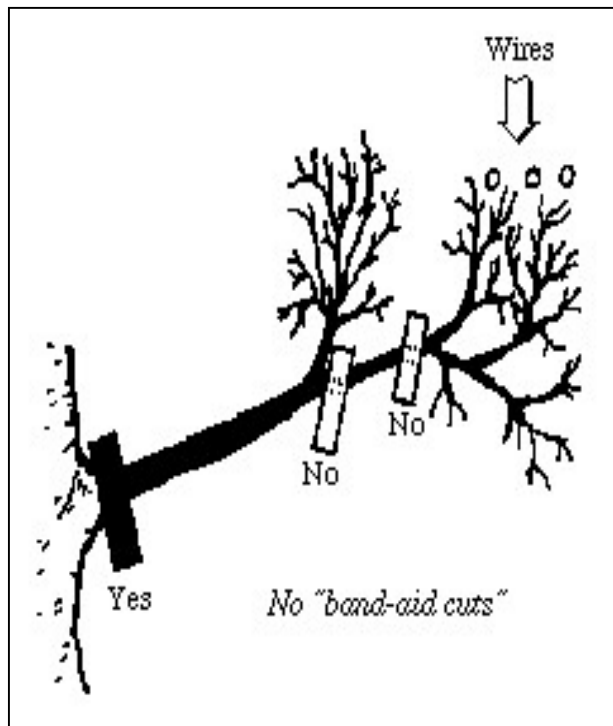
\$ _____
\$ _____

Mechanical Re-clearing:

Amount per Acre:

\$ _____

APPENDIX A



APPENDIX B

The Goal of TUA's Distribution Line Clearance Program is to help insure reliability of services by responsibly managing encroaching vegetation in and along the Utility Clearing Zone (UZ) aka the ROW. TUA, the Utility Forester, and/ or the Work Planner will have conducted a field survey along a Vegetation Management Circuit and developed a Line Clearance Plan. Advanced planning has some advantages but planning alone will not achieve TUA's Goal.

Using the Line Clearance Plan as your guide you should evaluate any tree on your own before doing anything. If you have questions or concerns, stop and get clarification. This is another way to insure your safety and maintain the integrity of TUA's systems.

Any pruning or trimming wounds a tree.

However doing those correctly will allow the tree to use its natural abilities to remain viable. Before removing any part of the tree you must first be able to identify the **Bark Branch Collar**. This is the place where you work will end and the tree can begin. The **BBC** is the area where a tree has specialized (undifferentiated) cells that will limit decay, initiate callus formation, and form the boundaries for compartmentalization of the wound that was created by trimming. Terms such as Selective, Targeted, Lateral, Drop Crotch, or Crown Reduction can mean different things to different persons but all refer to the removal of some part of a living plant.

For the purposes of this CONTRACT, working definitions for trimming are to be as follows:

Natural – This method of trimming is preferred and descriptive. It begins with an understanding of the trees natural processes in response to trimming. It is a selective process of removing portions of the tree canopy to provide line clearances. The correct result will be clearance as well as a tree that appears more natural and retains its structural integrity. Natural trimming is dependent upon the type of tree and its proximity to the UZ. In some cases *Natural* trimming is not possible and the *Drop Crotch* trimming will be necessary.

Targeted – This method of trimming is very specific, where in limbs are targeted to be removed. Typically, TUA will have made a note on the Line Clearance Plan or will have provided photos to aide you in what portions of the tree canopy have been *targeted* to be removed.

Lateral - This method of trimming while selective removes portions of a tree where its' natural tendency is to grow into the UZ. Being able to correctly identify the tree as well as having a sound idea of its age and growth pattern must be known in order for this type of trimming to be cost effective. Being able to trim laterally and the tree to appear natural afterwards is very difficult to achieve. It is not a preferred system of pruning for TUA.

Drop Crotch – This method of trimming seeks to re-establish a trees main leader(s) through a series of selective removals. It is an alternative to removing a tree in its entirety and requires patience in order to do correctly. Results may take several trim cycles to attain an acceptable appearance. This is not indiscriminate shearing.

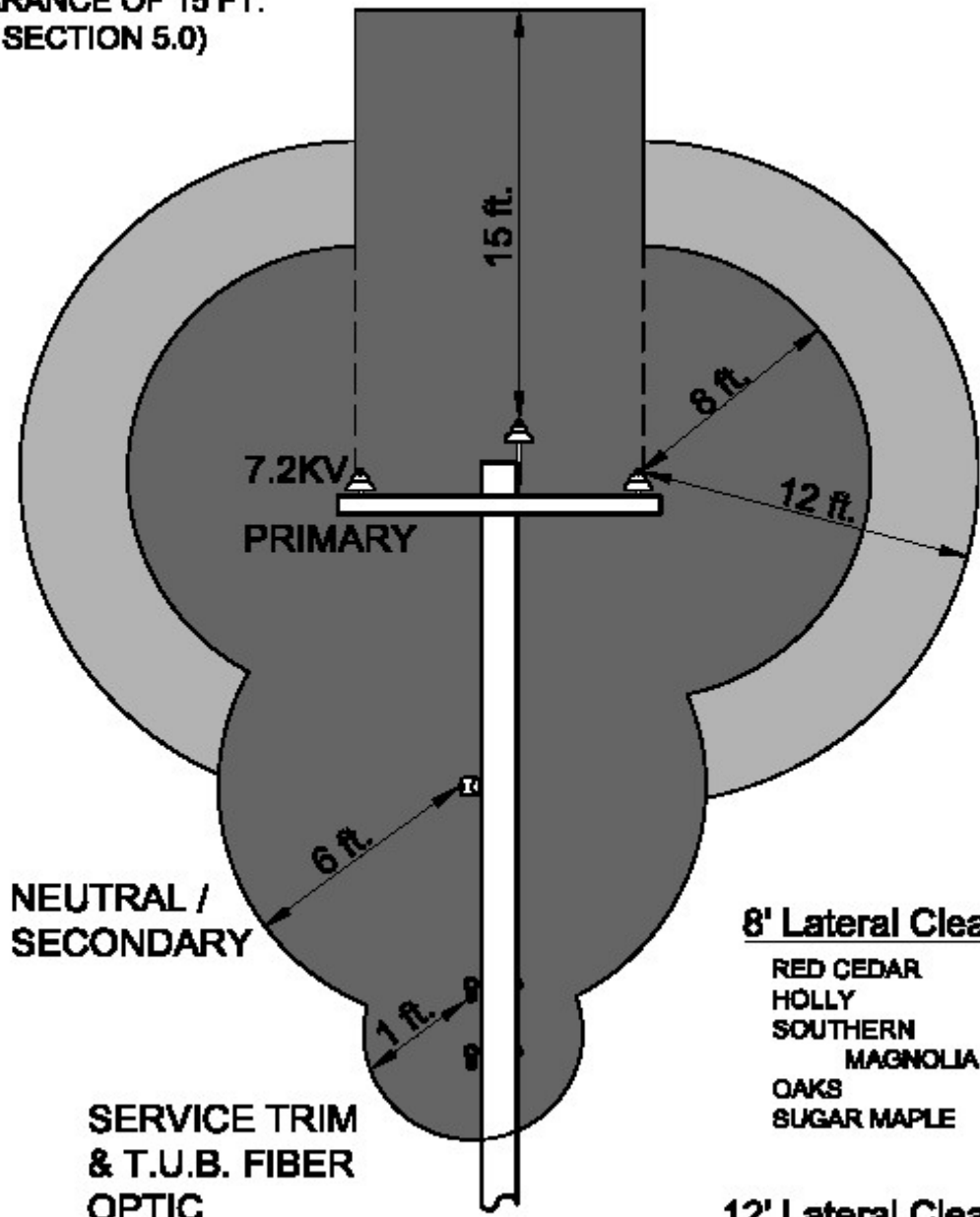
NOTE: The Line Clearance Plan has a column heading of "CR" for this CONTRACT it should be interpreted as for **Drop Crotch** trimming.

Crown Reduction – This method of trimming is not recognized by TUA and is only permitted by exception.

All trimming for TUA is to be selective.

APPENDIX C

**MINIMUM OVERHANG
CLEARANCE OF 15 FT.
(PER SECTION 5.0)**



8' Lateral Clearance

RED CEDAR
HOLLY
SOUTHERN
MAGNOLIA
OAKS
SUGAR MAPLE

12' Lateral Clearance

THOSE NOT LISTED
UNDER 8' CLEARANCE

**Tullahoma Utilities Authority
Vendor Information File**

Vendor Name:_____ **Vendor Number:**_____

Supplier Of: _____

Order Information

Payment Information

Vendor Name:_____ **Vendor Name:**_____

Box Number:_____ **Box Number:**_____

Street Address:_____ **Street Address:** _____

City: _____ **City:**_____

State:_____ **State:**_____

Zip:_____ **Zip:** _____

Phone:_____ **Phone:**_____

Facsimile:_____ **Facsimile:**_____

Email @: _____

Federal Tax ID/SSN:_____

Contact Persons:

After Hour & Emergency Numbers:

Person/Title	Home #	Email	Cell #	Beeper #	Fax #

Please return to: Timothy Howell thowell@tullahomautilities.com

Tullahoma Utilities Authority

P.O. Box 788

901 S. Jackson Street

Tullahoma, TN 37388

Or fax to: **931-454-2231**