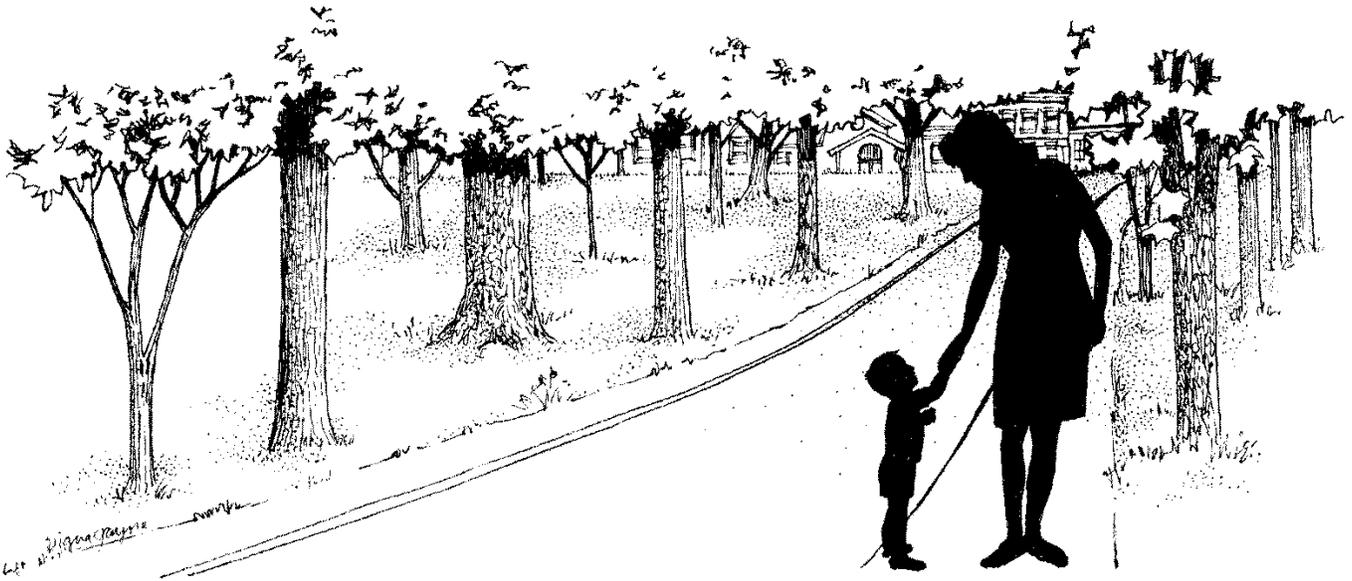


Tree Resource Improvement & Maintenance T.R.I.M.



2016 Application Workbook

Missouri Department of Conservation
Forestry Division
Community Forestry Program



Please Note

Three to six \$25,000 maximum (MDC share) grants will be awarded to cities working on data collection or creation of management plans.

All applications for increased level will be evaluated based on the same criteria as all other grants.

Any city or group requesting this larger grant should also consider applying at the regular level. Applicants interested in both a \$10,000 and \$25,000 must submit separate applications for each.

Multiple entries from one city or group are allowed. TRIM grants may be used for arboricultural training such as Municipal Forester Institute, MW-ISA, or MCFC conferences and similar workshops.

Table of Contents

<u>Requirement 1</u>	
Estimated Project Costs and Cost Share Request Form	3
<u>Requirement 2</u>	
Concise Narrative	5
<u>Requirement 3</u>	
Maps.....	6
<u>Requirement 4</u>	
Itemized Budget	7
<u>Requirement 5</u>	
Three-Year Tree Maintenance Plan	8
<u>Requirement 6</u>	
Letter of Permission	8
<u>Requirement 7</u>	
Publicity Plan	9
<u>Requirement 8</u>	
Two Copies	9
<u>Check List for Success</u>	10
<u>Hazard Tree Recognition</u>	11
<u>Tree Planting Specifications</u>	12
<u>Inventory Guidelines</u>	14
<u>Inspection Specifications</u> (How do You Get Your Money?)	15
<u>Completion Timetable</u>	16
<u>Appendix A</u>	17
Sample Application	
<u>Appendix B</u>	31
Sample Long Range Plan	

Requirement 1

Estimated Project Costs and Cost Share Request Form

Preparing Estimated Project Cost Worksheet

Applicant & Project Information

The first part of the request form asks for project information. Please be sure to:

1. Provide all requested information.
2. Make sure the address given is one where pertinent information can be mailed.
3. Clearly indicate all types of activities that your proposed project will involve regardless if cost is associated with them.

Provide Costs Associated with Project

Now list project cost estimates. This section should be completed after you obtain all necessary estimates (i.e. estimate from a nursery, a consulting forester, a professional arborist). The estimates should be on the company's letterhead. You will want to have the estimates in front of you because you will refer to them frequently when filling out the worksheet.

Remember to clearly document all administrative costs, in-kind labor, donations and discounts. The review committee must have no question as to how you arrived at amounts for each cost.

A. Reimbursable Costs

Start by filling out the reimbursable costs section. These are examples which are eligible for cost share funding. Reimbursable costs include:

- 1) Contract fee to develop tree management plan, materials, inventory, etc.
- 2) The purchase of materials
- 3) Rental of equipment

B. Non-Reimbursable Costs

Now fill out the non-reimbursable costs. These are expenses which may be part of your project, but cannot be funded by cost share. They may be used to fulfill your part of the match. Non-Reimbursable costs include:

- 1) Administrative costs
- 2) Paid employee labor (to remove, plant, or prune trees, to attend training, etc.)
- 3) Donated materials
- 4) Nursery discounts (must be shown on planting costs estimates)

C. Total Estimated Project Cost

Sum the Reimbursable Costs and sum the Non-reimbursable Costs. Transfer those amounts to the back of the form, Line C.

D. MDC Cost Share Computation

Calculate the MDC share by taking 60 percent of the Total Estimated Project Cost, and enter it on the space provided.

Tree City USA Bonus: If your community is a Tree City USA, figure an additional 15 percent of the total project cost and write the number on the Tree City USA Bonus line. For a list of certified communities please visit [Arbor Day Foundation list of Tree City USAs](#).

Missouri Arbor Award of Excellence: If you won a Missouri Arbor Award of Excellence within the last 12 months, figure an additional 5 percent of the total project cost and write the number on the Missouri Arbor Award of Excellence Bonus line. For a list of the most recent winners, contact your local MDC Forester.

Total MDC Cost Share: Add the MDC Cost Share, Tree City USA Bonus, and Missouri Arbor Award of Excellence bonus as the **Subtotal**. Enter the reimbursable costs from front side of form (Section A), and the smaller of the two goes on the Total MDC Cost Share line.

E. Signatures (Local Cost-Share Computation)

Applicant

This section of the form requires the signature of the individual making the application.

Missouri Department of Conservation Forester Signature

A minimum of 15 days prior to the application deadline, you must have consulted about your project with the MDC forester who works in your county.

This consultation is to allow MDC an opportunity to identify any problems associated with your project early enough that you can make changes prior to the deadline. The consultation does not guarantee your project will be funded.

If it is physically impossible for the forester to sign your form, it is permissible to submit documentation from the forester with your application, indicating that he/she has reviewed your project and he/she is not aware of any concerns or problems associated with it. That documentation may be a letter or an email.

Requirement 2

Concise Narrative

Your application must include a narrative that describes exactly what you are proposing to do. You must connect your proposed project to long-range goals for your community forestry. How does your proposed project fit with a planned approach to tree management?

Be sure that your narrative includes detail on the following:

- How this project fits your tree management program
- Participants and their roles (employees, contractors, volunteers, business or civic sponsors, etc.)
- Facilities and equipment needed to accomplish project
- Name and address of individual charged with administering the project
- End product or result of project
- A completion timetable

The narrative is your opportunity to sell your project. Choose your words carefully. Be sure to address the above points, but note the limit of 1,800 words.

Requirement 3

Maps

Location Map

Include a map which shows where your project will be located within the community. You may use a city or county street map with the site marked or highlighted. If a sketch is drawn, show major highways, streets, and central business district. For rural areas, show proximity to roads, towns, and other important features.

If you've proposed activities such as an inventory or ordinance development which include all or most of a community, you can attach a label on the map indicating that the proposed project encompasses the entire town.

Tree removal and/or pruning project must also be mapped.

Tree Planting Map

If your proposed project involves any tree planting you will need to provide an accurate plan view drawing of the proposed planting project. This plan view drawing should include buildings, utilities (above and below ground), streets, walks, existing trees, a north arrow and be drawn to scale. Your map must be clear enough that someone unfamiliar with your project would know the exact location and type of each tree to be planted. The planting map must show individual trees and the place where you will plant them. The tree planting map need not be professionally drawn. It simply must clearly show what you are proposing.

Please work closely with your MDC forester to assure you've chosen the right trees for the location you are planting. You might refer to the free MDC publication called [Missouri Urban Trees](#). This color booklet will help you match planting site conditions to tree requirements. It is available on the web at [MDC Urban Trees guide](#).

In general, projects which propose planting a diversity of trees are more desirable than those which are heavy to one single type of tree. Strive for a mix of different types of trees to minimize damage or loss from weather, insects, or diseases. For example, oak, dogwood, and maple would provide more diversity than sugar maple, red maple, and amur maple.

If you feel that planting one single species is appropriate and desirable for your planting site, you should take a few minutes in your narrative to explain why. **Under no circumstances will the planting of ash be funded.**

***Emerald Ash Borer (EAB)** is an exotic beetle found in numerous states in the U.S. (including Missouri) and Canada. Since its discovery, EAB has:*

- *Killed millions of ash trees,*
- *Caused regulatory agencies to enforce quarantines and fines to prevent potentially infested ash trees, logs, or firewood from moving out of areas where EAB occurs, and*
- *Cost municipalities, property owners, nursery operators and forest products industries tens of millions of dollars.*

For more information, check out the [Missouri Extension Service EAB info](#).

Requirement 4 Itemized Budget

Secure cost estimates for the proposed project from a nursery, consulting forester, professional arborist or other sources as needed to complete your project. Cost estimates must be written on the company's letterhead.

It may be to your advantage to obtain two or more estimates to compare costs. However, only the estimate(s) which are used to develop the costs on your *Estimated Project Cost Worksheet* and *Cost Share Request Form* should be included in your proposal.

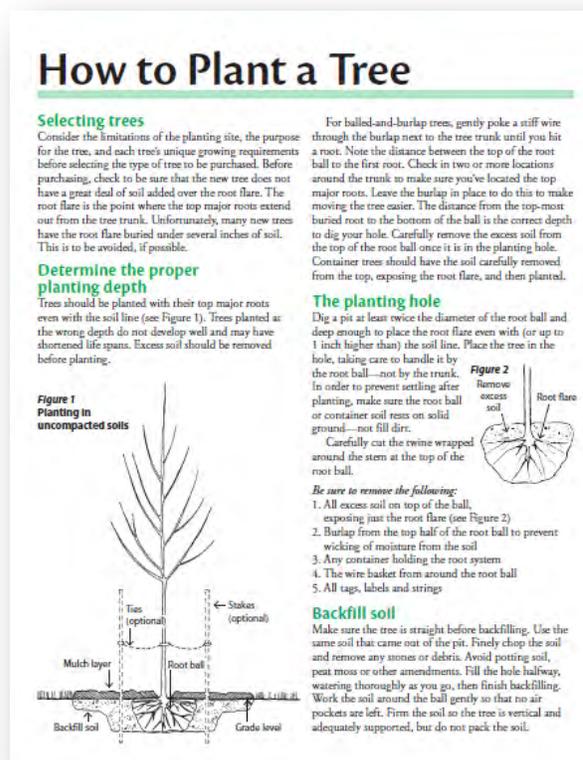
Tree Planting Projects

If you are planting trees, the estimate should include:

- A complete list of the trees to be planted, including tree size and species. Deciduous trees must measure from 1 to 3 inches in caliper and evergreen trees must be 6 to 12 feet in height.
- The planting costs. Please ask the tree supplier to list the tree planting costs separately as some of the costs are reimbursable and some are not.
- The contract supplier **must** guarantee one year's survival on all trees. This should be clearly stated on the estimate.

If you are using paid employees to plant the trees, base your estimate on actual labor costs. If you are using volunteers to plant or install trees, estimate volunteer time at the rate of \$15.00 per hour per person.

You or your planting contractor must use the [How to Plant a Tree](#) publication created by MDC, which is included as part of the application form. If trees are not planted to these specifications, the inspecting MDC forester will have the option to withhold funding until the trees are properly installed or to deny payment if the work fails to conform to the detail after request to correct from the local forester. See your MDC forester about any variance from these specifications.



Requirement 5

Three-Year Tree Maintenance Plan

If your project involves tree planting, you will need to include with the application a three-year maintenance plan which describes in detail post-planting tree care procedures and who will be the caretakers. The maintenance plan must minimally include watering, controlling of pests, removal of stakes, and re-mulching for three years after planting.

If your project involves the removal of invasive plants you must also provide a three-year maintenance plan. This plan must outline steps you will take to ensure the invasive that was removed does not return. Be sure to identify who will be responsible for implementing this plan.

Take the time to develop this section fully. You must show that you clearly have the capability, resources, and people to assure that the trees are adequately maintained. This section gets close scrutiny.

It is permissible to use volunteers to do the work but you should outline a back-up plan in case the volunteers fail to show or are not available during the summer.

Requirement 6

Letter of Permission

Projects must be located on **public property**. Public property includes land owned by a city, county, or state agency, and land owned by a public school, volunteer fire department, etc. Private schools or institutions and property owned by quasi-public entities (neighborhood common ground, churches, YMCAs) do not qualify for funding.

If you are proposing a project on public property that you do not directly own, you must include a letter of support from the department or agency which owns the property.

For example:

A neighborhood association wants to improve a neighborhood park by inventorying the trees, removing dead trees, and planting new ones. A letter of support from the city parks department would be needed for the application to be funded.

A community wants to plant trees on state highway right-of-way to reduce noise. A letter of support from the Missouri Department of Transportation would be necessary.

Requirement 7 Publicity Plan

All applications must outline how the work completed will be shared with citizens in the community. You must articulate how you will publicize the work and give credit for MDC's contribution to the project. Projects where there is no attempt to publically share MDC's contribution will not fair very well.

This section does not have to be elaborate. Some publicity ideas include running an article in your local paper, inviting the media to come when you're doing work (i.e., planting trees, pruning, hosting a workshop), and inviting the media to come for the formal check presentation at the project's completion. Think creatively! You might also post information about the project on your city's or organization's website or run an article in your community's newsletter.

You will be required upon completion of your project to submit proof that you have implemented your publicity plan.

Requirement 8 Two Copies

Two complete copies of all documents are required for each application. This is especially important to assure that good quality maps are submitted. If two copies of all elements are not sent the application will be incomplete and cannot compete in the cost-share program.

Checklist for Success

- Send two copies of complete application.
- Double check your math on the Estimated Project Costs Worksheet and Cost Share Request Form.
- Be sure your Concise Narrative addresses all of the bulleted points. Consider using each bulleted point as a heading to be sure you address all areas. Keep your Concise Narrative crisp and to the point. A maximum of 1,800 words is allowed.
- Clearly label all parts and features on all maps.
- The Itemized Budget must explain all costs listed on the Estimated Projects Costs and Cost Share Request Form. The review committee will need a clear understanding of how you arrived at all costs associated with your project.
- If you are planting trees or removing invasive plants, be sure to include a Three Year Maintenance Plan. The plan must outline the activities that will be undertaken and it must identify the person responsible for assuring that the work is carried out.

Application Submission Checklist

To make sure your application is complete, use the following checklist.

- Estimated Project Cost Worksheet/Cost-Share Request Form
- Concise Narrative
- Location Map
- Plan View Drawing (if tree planting)
- Itemized Budget
- Three Year Maintenance Plan (if tree planting)
- Publicity Plan
- Cost Share Request Form signatures from applicant and MDC Forester
- Letter of Permission (if applicable)
- Two Copies of the Entire Application

Hazard Tree Recognition

Most of us recognize the value and enjoyment that trees add to our everyday lives whether in a forest setting, a streetscape, a park, or in our own yard. However, we are often unaware of the danger that exists associated with tree defects that can potentially cause death, personal injury or property damage.

Interest in hazard trees and their management has dramatically increased in recent years due to liability concerns resulting from court decisions and preventable accidents. Recognizing tree defects that lead to hazardous trees is the first step in taking the corrective management actions necessary to protect lives and property.

A tree is recognized as being “hazardous” when two conditions are met:

1. The tree has structural defects that are likely to cause the failure of all or part of the tree.
2. The tree has “targets” beneath it that could be struck by all or part of the tree as a result of tree failure. These targets are most commonly; people, vehicles, buildings or objects such as street lights, picnic tables or fences.

Please note that a tree is not hazardous just because it is “ugly,” produces an unwanted fruit (i.e. sweetgum balls), or its root system is causing problems (i.e. pushing up sidewalks).

Hazardous defects are the signs and symptoms that a tree is failing, but recognizing and evaluating these defects is a complex process that requires a professional. Besides knowing how tree species, tree condition and tree age relate to tree safety, this person must be able to identify hazardous tree defects such as dead wood, weak branch unions, cracks, cankers, decay, poor tree architecture, and root problems.

For the purpose of the **Tree Resource Improvement and Maintenance** cost-share program, hazard tree evaluation should be performed using most recent nationally accepted standards and best available technology by either an International Society of Arboriculture (ISA) Certified Arborist (see ISA’s website search at www.isa-arbor.com/faca/findarborist.aspx) or a Society of American Foresters (SAF) Certified Forester [Society of American Foresters Certified Forester search list](#).

Tree Planting Specifications

Selecting Trees

Consider the limitations of the planting site, the purpose for the tree, and each tree's unique growing requirements before selecting the type of tree to be purchased. Before purchasing check to be sure that the new tree does not have a great deal of soil added over the root flare. The root flare is the point where the top major roots extend out from the tree trunk. Unfortunately many new trees have the root flare buried under several inches of soil. This is to be avoided if possible or must be corrected.

Determine the Proper Planting Depth

Trees should be planted with the root flare (i.e., the top major roots) even with the final grade. Trees planted at the wrong depth do not develop well and may have shortened life spans. Excess soil should be removed before planting and the tree planted at the correct depth. Consult the MDC publication "[How to Plant a Tree](#)" or contact your local MDC forester.

The Planting Hole

Excavate a site at least twice the diameter of the rootball and the deep enough to place the root flare even with or up to one inch higher than the soil line. Handle the tree by the rootball, not the trunk. Be sure the rootball or container soil rests on solid ground to prevent settling. Carefully cut twine wrapped around the stem at the top of the root ball.

Be sure to remove:

1. All tags, labels and strings
2. The wire basket from around the root ball
3. Any container holding the root system
4. Burlap from at least the top half of the root ball
5. All excess soil on top of the ball just exposing the root flare

Backfill Soil

Make sure the tree is straight before backfilling. Use the same soil that came out of the pit. Finely stir the soil and remove any stones or debris. Avoid using potting soil, peat moss or other amendments. Fill the hole halfway, watering thoroughly as you go, then finish backfilling. Work the soil around the ball gently so that no air pockets are left. Firm the soil so the tree is vertical and adequately supported, but do not pack the soil.

Water

Saturate the entire backfilled soil with water. A slow gentle soaking is preferable. Add more soil if needed to compensate for settling.

Mulch

Cover smoothed soil with 3 inches of wood or bark chips shaped in a doughnut 2-3 feet wide leaving a small gap near the trunk. Do not mound mulch onto the trunk of the tree. Black plastic, grass clippings, or sawdust shall not be used as mulch. Keep mulch weed free. Replace as needed.

Pruning

Remove **only** broken or badly deformed branches the first year. Begin a regular pruning program the second or third year after planting

The following is optional or not recommended:**Stakes**

Stakes may be used to prevent shifting of the root ball or to protect the stem from mowing equipment but are not required. If needed, the tree should be guyed strongly enough to provide support, but flexibly enough to allow 6-8 inches of sway. Drive one or more stakes near the tree but not through the roots.

The best guying materials are wide and flexible, such as plastic horticultural tape or canvas webbing. Do not use wire in hose. All guys/ties should be placed low on the trunk. Remove guys/ties as soon as the tree can stand alone – about 3 months but no longer than a year.

Trunk wrap

Research indicates that trunk wraps provide little, if any benefit to trees. In fact, they can encourage damaging insects or disease-causing fungi. Avoid using trunk wraps unless specifically recommended.

Planting in Compacted Soils

To test for compacted soil, do a simple percolation test. Dig a 12" to 18" deep hole and fill it with water. If any water is still in the hole 12-18 hours later, then you have compacted or heavy clay soils.

Roots need oxygen so excavate a wide, shallow hole which is 3-4 times the width of the rootball or container and only ½ as deep. Mound backfill soil slightly to the top of the root flare covering the entire excavation. This creates a raised planting bed which will improve the tree's performance. Soils which hold excessive moisture may need a subsurface drain tube installed below the root ball.

Inventory Guidelines

An electronic copy of your inventory will need to be provided to MDC.

When conducting tree inventory you are strongly encouraged to use firms that employ International Society of Arboriculture (ISA) Certified Arborists (see ISA's website search at [ISA Find an Arborist](#)) or a Society of American Foresters (SAF) Certified Forester [Society of American Foresters Certified Forester search list](#).

You are free to use any software package you desire as long as **all data collected is compatible with i-Tree software**. The i-Tree package is a state-of-the-art software suite from the USDA Forest Service that provides analysis and benefits assessment tools for trees. The i-Tree Streets tool will allow you to quantify the dollar value of annual environmental and aesthetic benefits: energy conservation, air quality improvement, CO₂ reduction, stormwater control, and property value increase. More information on the i-Tree software suite of tools can be found at [i-Tree website](#).

Here are a few key points to remember:

- Purchasing procedures established by your community will guide how you select the vendor that completes the work. You are strongly encouraged, but not required to bid this work out. There are SAF Certified Foresters and ISA Certified Arborists in Missouri who are capable of doing the work.
- Be sure you have a written agreement with the vendor you select outlining what data will be collected, timelines, what happens if corrections are needed, payment, etc.
- Collect only the data you are going to use. You must collect at minimum tree species, location, size, condition, and maintenance needs. When capturing additional information be sure you have a use for that data. There is no sense in paying for something you will not use.
- Carefully consider how your community will use the tree data when deciding on how to map tree locations. GPS locations are not required by this grant and should only be collected if your community has the ability to use that data.
- When bidding out this project use care in crafting your specifications.
 - Ask for two or three references or examples of previous work.
 - Review the sample management plan that each bidder prepares to be sure that the format is useful.
 - Be sure that the software package used by the vendor is compatible with your current system, i-Tree software, and you understand how to use the program.
 - Give careful consideration to the insurance coverage you require to be sure that it is not excessive for the type of work they will be doing.
- In reference to GPS coordinates for trees, be sure you and the contractor agree on the degree of accuracy required. Within 3 feet? Within 15 feet? There is no right or wrong answer. Just be sure you all agree on what is expected and that the agreed upon definition of "accurate" is captured in writing.

Inspection Specifications

How Do You Get Your Money?

Once you've completed your project you must notify your MDC forester *in writing* that the work is done. Please refer to your signed Cooperative Agreement with MDC for the contact information for your local MDC forester.

Your written notification must include copies of all invoices, documentation of all in-kind costs must be on official letterhead, and documentation showing your publicity plan has been implemented. The work will then be inspected by a representative of the MDC.

If your project involves **tree planting** the forester will:

- **Verify that tree species matches invoice and grant application:** ID tags should remain on each tree until final inspection to allow the forester to easily verify tree species.
- **Verify the size:** Remember deciduous trees must measure from 1 to 3 inches in caliper and evergreen trees must be 6 to 12 feet in height.
- **Check the tree planting depth.** Make sure tree is planted according to the *Standard Tree Planting Detail*. Trees should not be planted on top of the ground. In compacted soils, the maximum that the rootball should be extended above ground is 1/3 of the total rootball.
- **Check the mulch application.** Mulch should **not** be piled against trunk of the tree. See MDC's guide [Mulch: Your Tree's Best Friend](http://mdc.mo.gov/node/3321), which is available online at <http://mdc.mo.gov/node/3321>.
- **Inspect the rootball.** Burlap should be pulled back from the top 1/3 of the root ball or removed completely.
- **Inspect for removal** of staking and wrap ties attached to trunk of tree.

If your project involves an **educational activity**, the forester will:

- Request a copy of all printed material
- If a workshop was held, a list of all attendees must be submitted along with the workshop date, time, location, speakers, and topics.

If your project involves **tree pruning or removal**, the forester will:

- Verify the number and location of all trees pruned and/or removed.
- Verify that all trees were pruned according to *ANSI A300 Tree Shrub and Other Woody Plant Maintenance - Standard Practices*. **No work will be approved that does not conform to these standards.**

Once your project has passed field inspection, the forester will request payment. It normally takes 4-8 weeks for a check to arrive after the forester requests payment. The final decision on payment rests with the community forestry program coordinator. All questions about payment should be directed to the coordinator at 573-522-4115, ext. 3306.

Completion Timetable

May 13: Applicants must have consulted with their local MDC foresters.

June 3: Applications must be postmarked and arrive in Jefferson City.

September: Applicants will be notified of approval status.

May 1: Of the following year – approved projects must be completed and applicants have notified their local MDC foresters.

Appendix A: Sample Application

Estimated Project Cost Worksheet

T.R.I.M. Estimated Project Cost Worksheet

Applicant City of Redbud Contact person Doug Fir
 Address 665 Barnes, PO Box 0001
 Email douglas.fir@redbud.cityweb
 Phone 111-555-4390 County Cypress
 City/State Redbud, MO ZIP (9-digit ZIP required) 65555-5555
 Project location Broad Street

Project Type (check all that apply):

- Inventory Removal Pruning Education Planting Other

Provide costs only for items associated with your project.

<u>A. Reimbursable Costs</u>	Amount
1. Contract fee (tree management plan, material development, inventory)	<u> </u>
2. Contracted labor (tree removals, pruning, planting, inventory)	<u>4950</u>
3. Purchased materials for inventory or tree work	<u> </u>
4. Equipment rental (inventory, planting, or other tree work)	<u> </u>
5. Education (training course fees, program materials)	<u>1800</u>
6. Tree planting plan preparation fee	<u> </u>
7. Trees for planting and delivery, less any discount	<u>2922</u>
8. Purchased materials for planting (stakes, mulch)	<u> </u>
SUBTOTAL	\$ <u>9672</u>
<u>B. Non-reimbursable Costs</u>	
1. Administrative costs (tree care, education, inventory)	<u>450</u>
2. Paid employee labor (tree care, education, inventory)	<u>670</u>
3. Donated labor (tree work, planting, or inventory (at \$10/hr))	<u> </u>
4. Donated equipment costs	<u> </u>
5. In-kind equipment	<u> </u>
6. Donated materials (stakes, mulch, etc.)	<u> </u>
7. Discount or credit for trees or tree planting	<u>1118</u>
8. Other	<u> </u>
SUBTOTAL	\$ <u>2238</u>

C. Total Estimated Project Costs

(Add above and round to nearest dollar.)

\$ 11910

Transfer total to back side of form

Please complete Cost-Share Request Form on reverse side.

Appendix A: Sample Application Cost-Share Request Form

T.R.I.M. Cost-Share Request Form

Applicant City of Redbud Contact person Doug Fir
Project location Broad Street

C. Total Estimated Project Costs

\$ 11910
Amount from front side of form

D. MDC Cost-Share Computation

Missouri Department of Conservation's Cost Share \$ 7146
(60% X Total estimated project cost)

Tree City USA Bonus \$ n/a
(15% X Total estimated project cost)
NOTE: To qualify for bonus, project must be located in a community that is currently certified as Tree City USA.

Missouri Arbor Award of Excellence Bonus \$ n/a
(5% X Total estimated project cost)
NOTE: To qualify for bonus, applicant must be the winner of an MAAE award within the last 12 months.

SUBTOTAL
Add all amounts in D (above): \$ 7146

SUBTOTAL REIMBURSABLE COSTS
Enter the SUBTOTAL from A on front side: \$ 9672

TOTAL MDC COST SHARE \$ 7146
Enter the smaller of the above two lines. Total MDC Cost Share cannot exceed Reimbursable Costs. Maximum available is \$10,000 unless specifically authorized.

E. Local Cost-Share Computation

Total MDC Cost Share subtracted from Total Estimated Project Costs \$ 4764

I certify that funds received through the Tree Resource Improvement and Maintenance program will be used only for the care of trees or planting of trees on public property, as noted in this application. I certify that all trees subject to this contract will be pruned in accordance with American National Standard Institute A300 *Standard Practices for Wood Plant Maintenance* specifications and that trees will be planted in accordance with the enclosed *How to Plant a Tree* brochure.

Doug Fir, Director of Public Works

Name and Title of Representative

Doug Fir 4/1/16

Signature of Representative Date

Sally Forester 4/3/16

Signature of Missouri Department of Conservation Forester Date

Revised March 2016

Appendix A: Sample Application Narrative

Redbud, Missouri – TRIM Cost-Share Program Application

Project Background and Description:

The City of Redbud is trying to improve the quality of life for its citizens. Until just recently the community had not taken an interest in trees. The City has appointed a Tree Advisory Board to improve the aesthetics throughout the community and find ways to deal with people driving too fast in town, especially near the school on Broad Street.

Even though there is a 25mph speed limit, with 15mph during school hours, drivers tend to exceed this. We are planning to plant street trees on the street right-of-way to make it appear narrower, and thereby reduce the speed of drivers.

The Redbud Tree Advisory Board and City of Redbud Public Works have been working closely with the Missouri Department of Conservation to develop a master tree management plan for our community forest. We will focus our attention on Broad Street, the street the feeds our elementary and secondary school campus. Specifically we would like to implement three elements of that master plan through the TRIM cost share program.

Hazard Tree Removal

The 5 trees to be removed were identified as hazardous in a tree inventory completed last year. A professional tree service will be contracted to perform the removal work in compliance with the City of Redbud's Tree Ordinance. All work will be done according to ANSI A-300 Standards for Tree Maintenance.

Removal of these 5 trees will increase public safety along Broad Street while making room for new trees which are better adapted to the street right-of-way.

Education

The City of Redbud will work to educate citizens on tree care, tree maintenance and the importance of not topping trees. Three mailings of educational materials will be sent to citizens through their utility bills. This will be an easy and effective means of distributing information to all citizens.

Tree Planting

The 31 trees to be purchased are recommended in the master plan for shading of impervious surfaces and reduction of traffic speed. Ten Autumn Blaze maples, seventeen skyline honeylocust and four trees swamp white oak will be planted along the Broad Street right-of-way, eight feet from the road surface. A local nursery will be employed to install, mulch, and water all trees in this project as per the MDC *Standard Tree Planting Detail*.

There are no overhead power lines that will cause conflict in future years. Before planting trees, the City will call 1-800-DIG-RITE to make sure underground utilities will be avoided. The City of Redbud has agreed to care for the trees and develop a branch canopy with careful pruning, which will provide necessary clearance for traffic.

Participants and Their Roles

- **Redbud Public Works Department**_ - Responsible for project. Will coordinate purchase of trees, installation, tree removals and educational materials to be distributed. Will maintain the trees after installation.
- **Missouri Department of Conservation**_ - The Public Works Department will work with the local Forester to coordinate educational efforts.
- **Redbud Chamber of Commerce**_ - Local businesses through the Chamber are sponsoring additional trees.
- **Trees Are Us Nursery**_ - A local nursery that has put together a tree planting and installation cost estimate. Local nurseryman on staff that will assist with tree maintenance and care.
- **We Don't Top Tree Care**_ - A professional arborist employing 2 International Society of Arboriculture Certified Arborists will remove the 5 hazardous trees. The contractor will furnish all equipment for this project.

Facilities and Equipment

All equipment for planting and tree removal will be provided by the contractor. The Redbud Parks and Recreation Department will be assisting us with the watering planted trees as they already have 250 gallon truck mounted watering tank. The Public Works Department will handle all mulching with chips from the Utility Department. All pruning will be done by Public Works employee with existing hand pruning tools. Printing of educational materials will be handled by a contractor and Utility Department staff will stuff the envelopes.

Completion Timetable

- Tree removal – March
- Tree planting – December
- Maintenance of new trees will begin upon planting and continue for three years as per grant guidelines
- Pamphlets
 - Designed in October
 - Printed in early November
 - Distributed in December

Project Administrator

Doug Fir, Director Public Works
City of Redbud
P.O. Box 0001
Redbud, MO 65555
Phone: (111) 555-1212
Fax: (111) 555-2121
pseudotsuga@treemail.com

End Product

Redbud is located in Cypress County. This area has experienced a population explosion in the last ten years and currently has approximately 12,000 residents within the city limits. Broad Street is the main

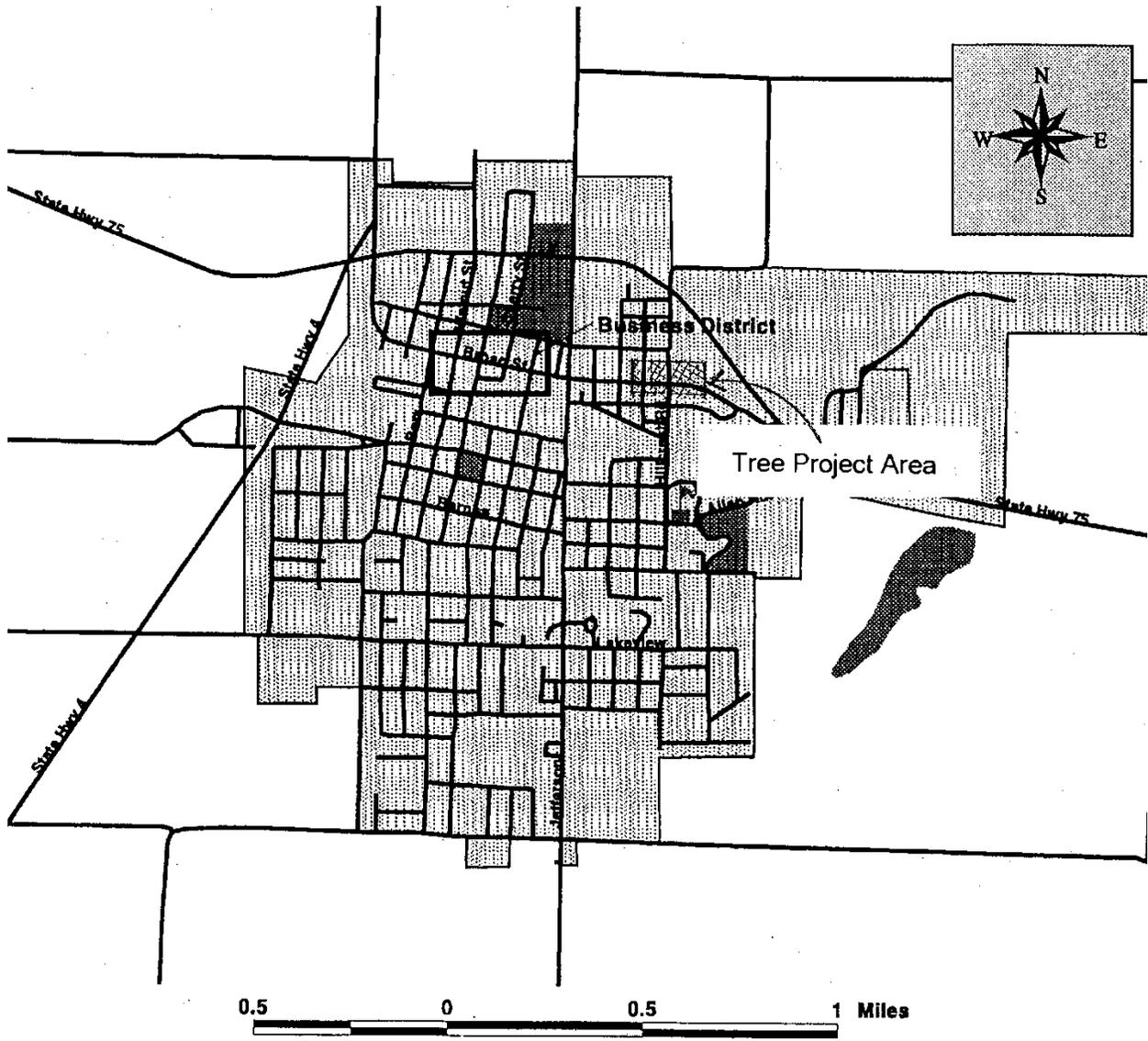
artery into the newest and largest subdivision. More people than ever are using Broad Street to reach their destination. Traffic count on the road averages 2,000 vehicles per day. All of these travelers will benefit from the improved safety created by the removal of the hazard trees and all will enjoy the new trees as they bloom and grow to provide shade. This whole project is designed to maintain our current trees, educate our citizens and establish new trees that will provide a positive benefit for the entire community.

Work done with the combined resources of the City Public Works Department and the Chamber of Commerce will create a safer, more aesthetically pleasing, and environmentally friendly environment.

A great deal of thought and planning has gone into this cost-share application. There is no doubt that this seed money will encourage a sustainable, balanced and comprehensive community tree program for the future in this community.

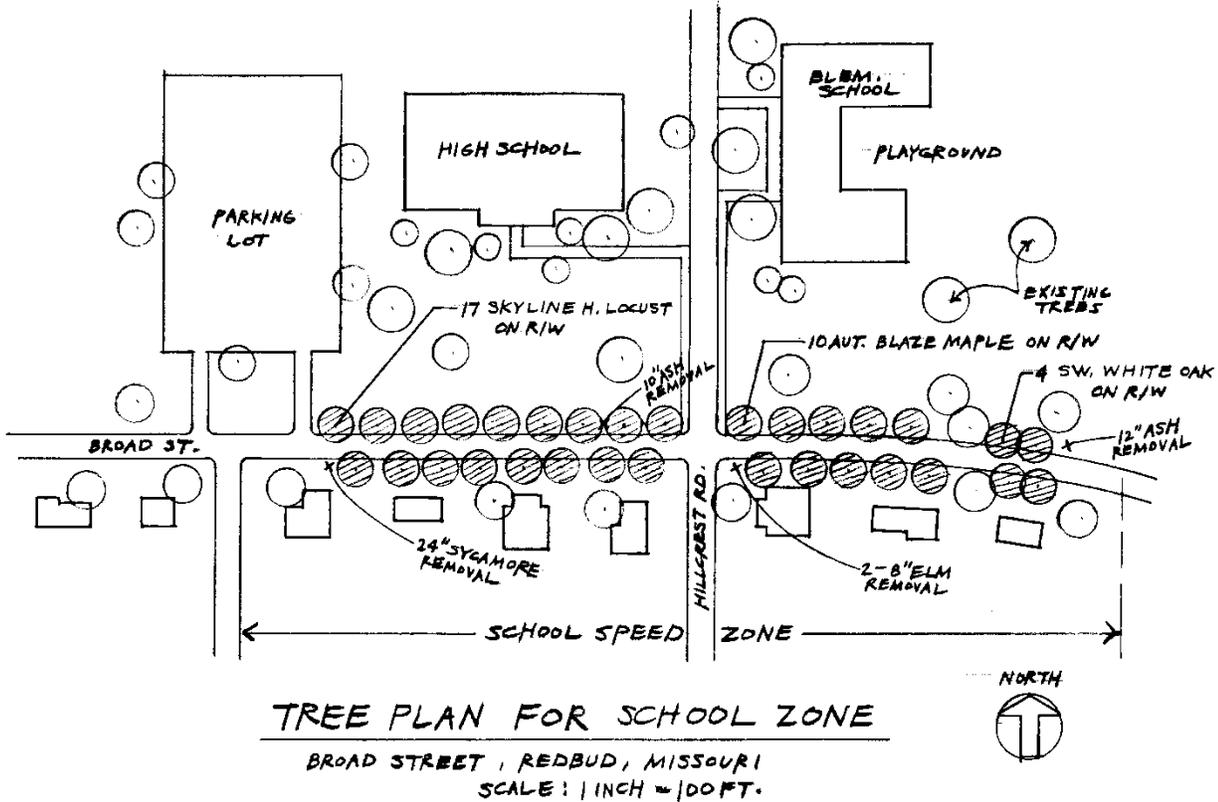
Appendix A: Sample Application Location Map

City of Redbud



Appendix A: Sample Application Planting Map (if applicable)

Requirement 3 - Planting Map if applicable



Appendix A: Sample Application Itemized Budget

City of Redbud, Missouri
Mayor: Dale Clemmons



P.O. Box 0001
665 Barnes
www.Redbud.cityweb

Redbud, MO 65555
Phone: (111) 555-1212
Fax: (111) 555-2121

Itemized Budget City of Redbud

Project: Tree removal & planting Broad Street; design & distribution of educational materials to Redbud citizens

REIMBURSABLE COSTS

Contract Labor (removal 5 trees) \$3,400.00
(We Don't Top Tree Care - bid enclosed)

Educational program materials (printing) \$1,800.00
(Fast Print - bid enclosed)

Trees for planting (31) \$2,922.00
(Trees Are Us Nursery - bid enclosed)
Less discount

Contract labor for tree planting (\$50/tree) \$1,550.00
(Trees Are Us Nursery)

Subtotal **\$9,672.00**

NON-REIMBURSABLE COSTS

Administrative Cost (20 hrs @ 22.50/hr) \$450.00
(Doug Fir's time used to administer project – award bids, oversee work, and finalize paper work)

Paid employee labor \$670.00
(40 hrs at \$15.00/hr for Utility Department to design 3 pamphlets;
10 hrs at \$7.00 to stuff pamphlets)

Nursery Discount (refer to nursery bid) \$1,118.00

Subtotal **\$2,238.00**

Total Project Costs **\$11,910.00**

Itemized Budget, Continued:

Trees Are Us Nursery

Highway 75, P.O. Box 53
Redbud, MO 65555
Phone: (111) 555-1234

City of Redbud, Missouri
Tree Planting Project for TRIM
Propose Planting for Broad Street

Quantity	Tree Species	Size (inches)	Price/Tree	Price/Species
10	Autumn Blaze Maple	1 ½ caliper	\$120.00	\$1,200.00
17	Skyline Honeylocust	1 ½ caliper	\$120.00	\$2,040.00
4	Swamp White Oak	2 ½ caliper	\$200.00	\$800.00
				Subtotal \$4,040.00
Installation per Tree (includes mulch, watering, staking if necessary, & labor)				
			\$50.00	\$1,550.00
				Subtotal \$5,590.00
Nursery Discount for trees (20 percent)				(\$1,118.00)
Total				\$ 4,472.00

Trees Are Us Nursery will replace all trees that do not survive the 12 months after installation at no cost to the city.

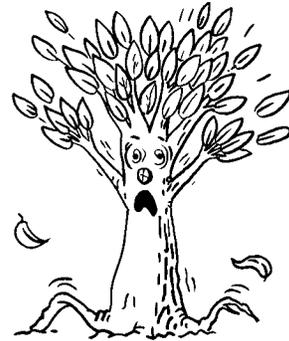
Caleb Finnely
Nursery Owner

Itemized Budget, Continued:

We Don't Top Tree Care

Mark Swiss, Owner
International Society of Arboriculture Certified Arborist
2390 W. Far Street
Oslo, MO 65454
Phone: (111) 555-6733
Fax: (111) 555-6788

Estimate for City of Redbud
March 2016



Remove two 8" DBH American elm at Broad Street and Hillcrest Rd	\$600.00
Remove one 24" DBH American Sycamore at 212 Broad St.	\$1,100.00
Remove one 12" DBH green ash at 511 Broad St.	\$700.00
Remove one 10" DBH green ash at 387 Broad St.	\$500.00
Remove stumps (\$50 ea.)	\$500.00
Total	\$3,400.00

THANK YOU FOR YOUR BUSINESS

Itemized Budget, Continued:

Fast Print

You Create It . . . We Can Print It
Highway 75, P.O. Box 123
Redbud, MO 65555
Phone: (111) 555-9090
Fax: (111) 55-8765

Print Order:

1 page pamphlet, double-sided, tri-fold, 5 cents a page = \$ 600

3 sets 12,000 copies = 36,000 copies at 5 cents = \$1,800.00

Total cost

\$1,800

The above costs serve as estimate only given on April 1, 2010.

Appendix A: Sample Application

Three Year Maintenance Plan (for tree planting only)

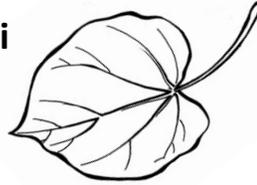
Redbud, Missouri TRIM Cost Share Program Application

Three Year Tree Maintenance Plan for Planted Trees

DATE	ACTIVITY	CARETAKERS
November	Trees installed, mulched and fertilized by local nursery as per MDC Standard Tree Planting Detail. Trees will be watered at planting.	Local nursery
April	Any trees that did not survive the winter will be replaced.	Redbud Public Works Department
Summer First year	Trees will be watered and inspected for insect and disease problems weekly as needed from June to September	Redbud Parks and Recreation Department - Bob Cobb and as needed local MDC Forester for insect and disease identification
October First year	Trees will be re-mulched and any dead branches pruned. Any trees that did not survive the summer will be replaced.	Redbud Public Works and Redbud Utility Department (chips)
Summer Second year	Trees will be watered and inspected for insect and disease problems weekly as needed from June to September	Redbud Parks and Recreation Department - Bob Cobb and as needed local MDC Forester for insect and disease identification
October Second year	Trees will be re-mulched and any dead branches will be pruned.	Redbud Public Works and Redbud Utility Department (chips)
Summer Third year	Trees will be watered and inspected for insect and disease problems weekly as needed from June to September	Redbud Parks and Recreation Department - Bob Cobb and as needed local MDC Forester for insect and disease identification
October Third year	Trees will be re-mulched and any dead branches will be pruned.	Redbud Public Works and Redbud Utility Department (chips)
January Fourth year	All trees will be pruned to correct structural problems and to provide clearance for sidewalk and vehicles.	Redbud Public Works Department

Appendix A: Sample Application Letter of Permission (if applicable)

City of Redbud, Missouri
Mayor: Dale Clemmons



P.O. Box 0001
665 Barnes
www.Redbud.cityweb

Redbud, MO 65555
Phone: (111) 555-1212
Fax: (111) 555-2121

April 3, 2010

Redbud Lions Club
Hwy 75, P.O. Box 0000
Redbud, MO 65555

Dear Mr. Lyon:

The City of Redbud would like to express our support for the tree planting project that your service organization has proposed in the park. The tree selected for planting fit with our master plan for the park and the locations will not present any difficulty to our maintenance of the park.

Thank you for your interest in our community. I look forward to working with you.

Sincerely,

Doug Fir
Public Works Director
City of Redbud

Appendix A: Sample Application Publicity Plan

Work association with this project will be shared with the community in four ways:

1. We intend to invite local Girl Scout Troop 399 to help us plant a few trees near the Redbud Elementary School. We will also invite the local paper to come out at that time.
2. We will post information on the planting and removal on our city's web site at www.redbud.cityweb.
3. Three mailings of educational materials will be sent to citizens with their utility bills. Each publication mailed will carry the Missouri Department of Conservation logo.
4. At the project's completion we will work with our local forester to schedule time during a Board of Alderman's meeting to receive the check from MDC. We will alert the local paper and radio station when that check presentation will take place.

Appendix B: Sample Long Range Plan

Note:

A long range plan is not required for TRIM applications. However, it will be very helpful to demonstrate how a project relates to management of the community's total tree resource.

A tree management plan should outline what work will be done and who will accomplish it, within a given time frame. Some type of inventory is desirable to properly evaluate the tree resource and to proactively plan work.

City of Redbud Tree Management Plan - Initial Plan 2010

Introduction

The City of Redbud has had a Tree Planting Committee since 1986. In 1998, this committee was formally changed to the Redbud Tree Board when the city's tree ordinance was passed as part of an effort to improve the health of Redbud's trees and to qualify as a Tree City USA. This plan is part of those continuing efforts. It includes inventory, high risk tree assessment, removal or pruning, and routine pruning according to ANSI A300 specification, training of city employees & volunteers, and tree planting.

Inventory

The basis for a good community tree management plan is good data about the community's trees. Redbud's street and park trees will be inventoried over a four year period by a professional forester and volunteers. Main Street and First Street divide the city into quadrants. The northwest quadrant will be inventoried first, then northeast, then southeast, and finally southwest. The inventory will be comprehensive and will include data about tree species, size, condition, maintenance needs and priority, and location. High-risk trees will be assigned the highest priority for maintenance. The locations will be mapped into the City's Geographic Information System. A professional forester will coordinate the inventory and will train volunteers to help carry out the inventory. City personnel will assist with mapping, data base set-up, data entry, and inventory so that the data.

Tree Maintenance

Inventory data will be used to schedule high-risk tree maintenance (removal or pruning) first, then routine tree maintenance for each quadrant in the year of and the year following the inventory. It is expected that with additional training, city crews will be able to complete most of the routine maintenance and some of the high-risk tree pruning and removal. There will be a need to contract with an arborist for work that is beyond the capabilities of city crews and equipment, but only the most rudimentary of estimates will be available until the first phase of the inventory is complete.

Training

The city will contract with a professional forester or arborist to provide pruning training using ISA (International Society of Arboriculture) materials. In future years, training in other aspects of tree care will be provided, and at least one crew member will be encouraged to become a certified arborist.

Tree Planting

Tree planting efforts will be concentrated on the newly developed Redbud Park for the next two or three years. The Parks and Recreation Department has a planting plan that can be divided into phases for this purpose. Future street right-of-way planting plans will follow the inventory, and will be based on identified potential planting spaces.

Implementation Schedule

2010-2011

Inventory northwest quarter of city. (Tree board, consultant, volunteers)
Complete pruning training for city public works crews. (Consultant, Public Works)
Complete high priority tree maintenance in the northwest quarter. (Public Works)
Plant 31 trees along Broad Street. (Tree Board, volunteers)

2011-2012

Inventory northeast quarter of city. (Tree Board, consultant, volunteers)
Complete high priority tree maintenance in the northeast quarter. (Public Works)
Complete routine tree maintenance work in the northwest quarter. (City)
Plant 50 – 100 trees at Redbud Park. (Tree Board, volunteers)
Remulch and inspect trees planted in 2005 (Tree Board, volunteers)

2012-2013

Inventory southeast quarter of city. (Tree Board, consultant, volunteers)
Complete high priority maintenance in the southeast quarter. (Public Works)
Complete routine maintenance in the northeast quarter. (Public Works)
Plant 50 trees at Redbud Park. (Tree Board, volunteers)
Remulch and inspect trees planted in 2005 & 2006. (Tree Board, volunteers)

2013-2014

Inventory southwest quarter of city. (Tree Board, consultant, volunteers)
Complete high priority maintenance in the southwest quarter. (Public Works)
Complete routine maintenance in the southeast quarter. (Public Works)
Remulch, inspect, replant as needed, all Redbud trees. (Tree Board, volunteers)

2014-2015

Complete any delayed high priority maintenance. (Public Works)
Complete routine maintenance in southeast quarter. (Public Works)
Choose a planting project based on inventory information. (Tree Board, volunteers)

2015-2016

Review this plan, begin inventory cycle again, review routine maintenance schedule, choose planting project. (Tree Board, Public Works, volunteers)