

City of Aurora

OFFICE OF THE MAYOR



Richard C. Irvin
Mayor

March 21, 2023

Chicago Region Trees Initiative
c/o The Morton Arboretum
4100 Illinois Route 53
Lisle, IL 60532

Attn: Colette Copic

Dear Ms. Copic,

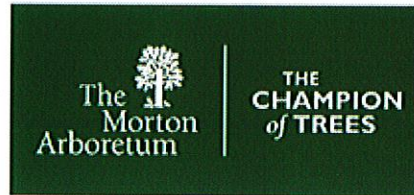
Please accept the attached application for the Urban and Community Forestry Support in the Chicago Region Grant Program. The proposed project will help Aurora improve the forest landscape and forestry conditions in our downtown. This neighborhood presents unique challenges for the city's urban forestry efforts. Funding from the Chicago Region Trees Initiative is tremendously helpful in ensuring our downtown maintains a healthy, diverse tree canopy.

Thank you for your consideration.

Sincerely,

Richard C. Irvin
Mayor, City of Aurora

2023 CHICAGO REGION EARMARK - Urban and Community Forestry Support in the Chicago Region Grant Program



General Instructions

- Grant contact: Colette Copic @ccopic@mortonarb.org (preferred) or 503-953-6930.
- Fill out each page of this application, as is applicable to you. In some cases, you may not be required to fill out an item.
- We do not wish for this application process to be a barrier to any interested Applicant. If you would like assistance or have questions, please contact Colette Copic by March 10, 2023.
- Please note that you are required to include a signed cover letter from your Mayor (or equivalent in communities other than municipalities).
- Submit your application electronically. No hard copies will be accepted unless you contact Colette Copic to make specific arrangements.

Applications are due Friday, March 24 2023 at 5:00 p.m.

Free Application Assistance Available

CRTI offers free application assistance for communities applying to this grant program. Contact Colette Copic at ccopic@mortonarb.org for more information.

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Grant Information and Funded Program Areas

This request for proposals provides funding assistance to communities (public entities including, municipalities, park districts, counties, tribal governments, townships, forest preserves, and other units of government) in McHenry, Lake, Kane, DuPage, Cook, Will, and Kendall Counties to improve the urban forest. Schools, colleges, and HOAs are not eligible to receive funding assistance through this grant. **This grant project was made possible with increased resources thanks to Congressman Sean Casten's Community Project Funding support in 2021. The Morton Arboretum is the grant administrator.**

The total maximum allowable funding amount for any one organization is \$25,000. The minimum allowable funding amount is \$3,500. For all communities, a 25% local match is required. Match spending is the use of local resources towards the project total and is explained in detail in the "[eligible and allowable match](#)" section of the grant RFP.

Please reference the grant's Request for Proposals for more details on this grant.

Allowable Costs

Program areas funded through this proposal must also include one or more of the following:

1. **Increasing tree canopy** (diverse tree planting and commitment to care for the trees post planting)
2. **Improving forest health** (pruning, dead tree removals, ash treatment, tree mulching, watering)
3. **Improving community forestry programs** (completion of a forest management plan or inventory with management summary; Updating a tree preservation ordinance; Increasing staff professionalism (through forestry training and/or certification or development of a forestry volunteer program)).

No work shall start on the project until the Applicant is awarded funding. All work shall be completed within the specified grant time period.

Section 1: Applicant Background Information

Organization Name	City of Aurora, IL		
Government Type (Municipality, County, Park District, Forest Preserve District, Township, etc.)	Municipality		
Federal Tax ID (EIN)	36-6005778		
Award Amount Requested (\$)	\$ 24,658.00	NOTE: THIS BOX WILL AUTOFILL AFTER YOU COMPLETE THE BUDGET SECTION (pg 12)	
Match Proposed (\$)	\$ 8,261.00	NOTE: THIS BOX WILL AUTOFILL AFTER YOU COMPLETE THE BUDGET SECTION (pg 12)	
Match Percentage (%)	25.09%	NOTE: THIS BOX WILL AUTOFILL AFTER YOU COMPLETE THE BUDGET SECTION (pg 12)	
Applicant Contact Information			
Name	Julie Frankino	Title	Grant Writer
Mailing Address	44 E. Downer Place, Aurora, IL 60507		
Email	frankinoj@aurora.il.us	Phone Number	630-256-3417 or 331-758-2494
Project Supervisor (if different)	Abby Schuler	Title	Downtown Services Manager
Email	schulera@aurora.il.us	Phone Number	630-256-3691 or 331-431-8394
Additional information (as needed):	Certified Arborist, Cathy Hayen, may be listed as an additional contact for this project. Email: hayenc@aurora.il.us. Phone: 630-450-2452.		

Community Questions	Yes (please specify with a ☒)		No ☒
Do you have an inventory of your public trees?	Full	☐	☐
	Partial	☒	
Eligibility: only trees not inventoried or updated in the last 3 years are eligible for funding for an inventory.	Digital	☐	
	Paper	☒	
Do you have an urban forest management plan for your public trees?	Fewer than 5 years old	☐	☒
	More than 5 years old	☐	
Eligibility: only Applicants whose management plans are older than 5 years old and/or not based on an inventory are eligible to receive funding for a management plan.	Based on a tree inventory	☐	
	Not based on a tree inventory	☐	
Does your organization have someone legally responsible for and designated by an ordinance to care for trees on public property (i.e.: forester, city department, tree board)? If so, provide name, title, and email.	Name	n/a	☒
	Title	Tree Board & City Arborist	
	Email	n/a	
Does your organization spend at least \$2 per capita per year on tree planting, pruning, removal, maintenance, etc.?	☒		☐

Community Questions	Yes ☒	No ☒
Are you a Tree City USA? If so, for how many years? If not, and you would like more information, please contact Mike Brunk at michael.brunk@illinois.gov	☒ 25 years	☐
Would you like assistance in applying to be a Tree City USA during this grant? Administrative time for this process may be used as Match for this grant.	☐	☒

Section 2: Project Overview (10)

750 characters (maximum including spaces) – Provide a summary of the project that includes the scope (e.g., number of trees planted, type of management plan to be created, number of staff trained), location, key partners, and expected accomplishments.

Evaluation Criteria for Project Overview:

- The Applicant identifies which program area(s) your project addresses
- The Applicant indicates a clear scope of the project that includes key numeric deliverables (e.g., number of trees planted, number of staff trained)
- The Applicant identifies who will be involved in the project
- The Applicant provides a short narrative on the long term impact for this project and describes how this project will contribute to the community's canopy and/or contribute to a vibrant and healthy urban forest over the long term.

This project address all three program areas. To increase the tree canopy, we will plant a total of 34 diverse trees in Aurora's downtown area. To improve the forest health, we will prune 10 trees in two different park areas and remove invasive species along the east bank of the Fox River to prepare the space for future restoration. To improve the community forestry programs, we will have ten staff members complete Urban Forestry Basic Training, and two certified arborists will complete IAA Tree Site & Selection Advanced Training. The project will be overseen by the Downtown Services Manager. This project focuses improvements on the area of the city with the greatest need for forest improvement, with a current canopy cover of only 15.82%.

Section 3: Purpose and Need (20)

1,500 characters (maximum including spaces)– Describe how the project addresses a financial or capacity need in your community.

Evaluation Criteria for Purpose and Need:

- The Applicant describes the connection between project activities and priorities of applicable strategic plans, or urban forest goals.
- The application demonstrates attention to equity and environmental justice, supported by information such as the [CRTI Priority Map](#), [The Climate and Econ Screening Tool](#), Tree Equity Score, Social Vulnerability Index, Opportunity Zone status, or other equity indicators, and describe how your project will specifically address these needs
- The application clearly describes the community's unique challenges (e.g. canopy loss, staff capacity and training, etc.) and identifies reasons why this grant is needed to address these specific challenges.

Aurora's downtown has greater need for improvement of its tree canopy than any other neighborhood and is addressed through three goals in the Aurora Downtown Master Plan. This project will occur in census tract 17089854700, which includes downtown and extends several blocks southwest, and tract 17089853300, which includes an area on the northeast side of downtown and extends north along the Fox River and east into a mixed residential/industrial neighborhood. Both tracts are climate justice disadvantaged. The CRTI's Priority Map designates the southern tract as a very high priority area, and the northern tract is a high priority area.

The City of Aurora faces several unique challenges with respect to urban forestry, particularly downtown. Tight budgets constrain the city's ability to plant new trees, maintain mature trees, clear invasives, and keep staff well-trained. In the tree-sparse downtown a lack of open space means trees often must be planted on steep riverbanks, making planting and maintenance more difficult and costly. In many areas, invasives line the riverbanks, allowing them to spread prolifically. This project addresses all of these challenges by removing invasives along the riverbank, planting carefully selected trees along the riverbank and in every open space downtown that is available during the project period, caring for important mature trees downtown, and building capacity for ongoing tree care through staff development.

Section 4: Scope of Work (15)

5,000 characters (maximum including spaces) – Provide a narrative that details the activities and methods proposed for your project. Include how this project will address the priorities of the Program Area(s) for which you are applying.

Evaluation Criteria for Scope of Work:

- The applicant shows capability and clear plans for carrying out the project and maintaining long-term project benefits.
- The applicant and/or partners show adequate expertise to address technical elements of the project or will seek out contractors with adequate expertise. If applicable, the Applicant describes the role, training, and qualifications of any partners and/or potential volunteers.
- Projects that involve community participation will be awarded higher scores. Support letters are required from any entity providing in-kind donations / match for the project. Support letters from peer organizations may be attached and should describe that entity's commitment to and role in this project.
- The project is designed to be resilient to the effects of climate change and other ecosystem stressors.

This project includes components under all three allowable program areas. This project will increase the tree canopy by planting a total of 34 trees in areas indicated on the attached maps, all of which are within the census tracts described in Section 3. Newly planted trees will be high-quality stock between 1" - 2" in diameter at 6" above the root flare and purchased through the Suburban Tree Consortium. Tree species and locations will be carefully selected for appropriateness and diversity by a certified arborist on staff. Planting will be completed by qualified contractors under the supervision of a certified staff arborist. The City of Aurora will plant and care for the newly planted trees following the most stringent of the Arboricultural Specifications Manual, the ANSI A300 Standard, or the grant Tree Maintenance Agreement guidelines, including, but not limited to timing of planting, mulching, and watering. All newly planted trees will be digitally inventoried including, at minimum, a photo, GPS coordinates, species, size, and condition.

This project will improve forest health by pruning 10 mature trees, mulching 36 trees, and removing invasive species. See attached maps indicating the areas for pruning and removal of invasives. Trees to be pruned include four linden trees in Aurora's Millenium Plaza on the west side of Stolp Island along with four lindens, a maple, and a river birch in Rotary Plaza along the far east bank of the Fox River just north of Galena Boulevard. Invasive species to be removed include common buckthorn, tree of heaven, and tartarian & amur honeysuckle lining the eastern bank of the Fox River just north of New York Street. Trees to be mulched have been assessed by the city's certified arborists and are scattered throughout the downtown area. Pruning and removal of invasives will be conducted by qualified contractors. Mulching will be completed by city maintenance staff. These activities will be conducted following the most stringent of the Arboricultural Specifications Manual and the ANSI A300 and Z133 standards under supervision of one of the city's certified arborists.

The City of Aurora recognizes the need for an improved tree inventory, urban forestry management plan, and tree ordinance. However, the scope and timing of those projects are not well aligned with this grant opportunity. The city plans to review and revise its ordinance and urban forestry management plan, including planning for a tree inventory, in late 2023 or 2024 in conjunction with other city planning projects. These activities may also be included in future grant applications as additional funding for those types of activities is more readily available than funding for the activities included in this project. Consequently, this project will improve the city's community forestry program by increasing the professionalism of the downtown maintenance staff. The city's Downtown Services Division staff includes a manager, two horticulturalists, both of whom are ISA Certified Arborists, a labor supervisor, and six maintenance workers. The entire Downtown Services Division will complete the CRTI's Urban Forestry Basic Training. Staff will split enrollment between different training dates to ensure that Downtown Services has sufficient staff on site to maintain normal service levels on training days and that all staff are trained by the end of the grant period. In addition, the two certified arborists will complete the Illinois Arborist Association's five-course Advanced Training Tree Site and Selection domain. The arborists will begin Tree Site and Selection training in the summer of 2023 and will complete the requirements within the grant period, subject to IAA course schedules.

This project is supported by the city's Tree Board, the Mayor's Sustainable Aurora Advisory Board, a formally recognized citizen group which serves to advise city government on environmental activities, and Aurora Downtown, the oversight organization for Aurora's Special Service Area One which encompasses the entire area of this project.

Section 5: Leveraged Benefits (20)

5,000 characters (maximum including spaces) – Explain how the project will continue to benefit the community past the grant term and set up the community for success into the future. Describe, as applicable:

- How the inventory will be updated regularly and used
- What kind of management plan will result from the inventory
- How the management plan will be used in basic operations and updated
- How your community will develop and implement a new or existing tree ordinance
- How tree planting will benefit your community and how the trees will be maintained to ensure this benefit
- How newly planted trees will be cared for and monitored after the grant period has ended
- How capacity building / staff training will impact your basic operations
- How your tree maintenance project (e.g., pruning, removals, treatment, etc.) will contribute to an overall healthier urban forest

Summarize how the project will create and sustain environmental benefits and outcomes over multiple decades. Describe your organization's commitment to the project (e.g. Is this project an established goal for the community? Is it tied to a comprehensive or other plan?)

Evaluation criteria for Leveraged Benefits:

- The application shows clear intention that the project will benefit your forestry program or community for the long term.
- Projects that can describe how this grant would expand your urban forestry efforts (not just supplement) will receive higher scores.

Leveraged Benefits Narrative:

This project will provide tremendous benefits to the community well beyond the grant period. The trees planted through this project will be selected to provide the highest probability of long-term survival in the locations in which they are planted. The thirty-four new trees planted in the areas of the city with the most sparse tree canopy (15.82%) will provide shade to reduce the high average summer temperature, reduce flood risk and erosion along the river bank, and improve air and water quality in an area with a high concentration of people from vulnerable populations. These trees will increase shade cover along the city's riverwalk, making the area more attractive and comfortable for visitors and residents alike.

Careful maintenance of the new and existing mature trees following the most stringent of the Arboricultural Specifications Manual and applicable ANSI standards will further ensure that these trees thrive for generations to come. New and existing trees will be mulched to a depth of 2" to 4" with mulch forming a ring around each tree at least 3" from the trunk of each tree. Each newly planted tree will be thoroughly watered at planting, and every 10 - 14 days thereafter during the initial growing season, depending on rainfall. Tree bags will be utilized to facilitate consistent watering, and Downtown Services staff will monitor the bags at least weekly to ensure they remain functional.

The health of the urban forest in Aurora's downtown will benefit from the elimination of invasive species. The area to be cleared lies along a highly visible stretch of the riverwalk upstream from the rest of the downtown area. The seed that is dispersed from these invasives creates a great deal of work for Downtown Services maintenance workers who continually battle invasive seedlings. We expect removal of the trees of heaven and other invasive species will reduce the need for removal of invasive seedlings, especially along the downstream river banks. The improvements included in this project are aligned with the city's Downtown Aurora Master Plan. Goal 1.4 of the section of the plan entitled "The Heart of Downtown: The Fox River" is to "provide and enhance river and riparian habitat to create a wildlife friendly environment." Goal 3 of the same section of the plan aims to "continue to demonstrate leadership in improving environmental quality" by identifying priority restoration areas (Goal 3.2).

The professional development included in this project will provide benefits for many years. The entire Downtown Services staff will increase their knowledge and professionalism about tree care. The city's and CRTI's support for this comprehensive training will help promote a culture of learning among front-line staff whose opportunities for professional development are traditionally limited. Participating staff will be encouraged to communicate the value of the Urban Forestry Basic Training to their peers in other divisions and in the community at large. The city's two certified arborists will also complete IAA's advanced training in Tree Site & Selection, allowing them to provide superior guidance regarding tree selection and planting throughout the city for years to come.

Section 6: Budget Details (15)

Communities are required to submit a proposed budget as part of this application. All communities are required to match their requested grant funds with match spending at a rate of 25%. Allowable expenses and match are explained in the grant RFP under "Financial Information."

Examples of match spending include, but are not limited to, time spent developing a specification, plan, or ordinance, approvals and review by staff and/or board; implementation of recommendations of the management plan or inventory, etc. In general, urban forest management activities you normally undertake may be used as match if they relate to grant activities (e.g. cyclical pruning as recommended in a new UFMP, watering newly planted grant funded trees, removal of high priority trees that pose a risk to the community as described in an inventory, etc.). This match requirement should be achievable for all communities and the Morton Arboretum staff would be happy to talk with you to discuss opportunities for match. If you cannot meet the 25% requirement, contact Colette Copic at ccopic@mortonarb.org to discuss additional options.

Please take your time to fill in this table correctly and completely. The dollar amounts you indicate in this table will be a determining factor in how much your project is awarded. For free assistance in filling out this section, you can contact Colette Copic at ccopic@mortonarb.org

Evaluation Criteria for Budget Detail:

- The budget indicated in this table is balanced and match is present and realistic.

Item	Grant Funds (Must not Exceed 75% of total cost and be between \$3,500-\$25,000)	Match (May not include any federal funds and must be a minimum 25% of the total cost)	Total Cost (Local Match + Grant Funds)
Personnel / Staff Labor Costs (Include any personnel costs for your grant and/or match activities.)	\$ 0.00	\$ 6,272.00	\$ 6,272.00
Fringe Benefits	\$ 0.00	\$ 1,989.00	\$ 1,989.00
Volunteer personnel (Estimated hours and \$ value per hour. Only counted for match.)	N/A	\$ 0.00	\$ 0.00

Item (continued)	Grant Funds (continued)	Match (continued)	Total cost (continued)
Sub Total	\$ 0.00	\$ 8,261.00	\$ 8,261.00
Contracted services (Include any estimates you've received. If not, write the amount you are applying for and the amount you are able to match.)	\$ 15,869.00	\$ 0.00	\$ 15,869.00
Sub Total	\$ 15,869.00	\$ 0.00	\$ 15,869.00
Supplies (Include any trees, soil, mulch, etc.) For inventory / management plan / ordinance projects, materials are not an allowable grant funded expense but may be used as match.	\$ 8,789.00	\$ 0.00	\$ 8,789.00
Sub Total	\$ 8,789.00	\$ 0.00	\$ 8,789.00
Other (Please identify/explain the expense.)	\$ 0.00	\$ 0.00	\$ 0.00
Sub Total	\$ 0.00	\$ 0.00	\$ 0.00
Grant Total	\$ 24,658.00	\$ 8,261.00	\$ 32,919.00

Budget Narrative-1,500 characters (maximum including spaces)

Provide a written explanation of expensable activities and match.

Evaluation Criteria for Budget Narrative:

- The Applicant provides a clear explanation on how they arrived at project cost (e.g., quotes, previous projects).
- The Applicant describes all local match, both in-kind and direct, including contracted services, personnel salary and fringe, material purchases, volunteer efforts, community organization support and/or community contributions.
- The Applicant details any "other" expenses listed in the budget matrix.

This project includes staff salary and benefits costs for professional development; contractual services for tree planting, removal of invasive species, and professional development; and supply costs for trees, mulch, and tree bags.

Six Downtown Services maintenance workers and their supervisor, two horticulturalists, and the Downtown Services Manager will complete CRTI's 16-hour Urban Forestry Basic Training. These ten staff members will attend in two or more cohorts divided between sessions throughout the grant period for 160 hrs. total. The two arborists will also complete approximately 40 hours each of IAA Advanced Training in the Tree Site & Selection domain. Salaries for training activities are based on individual wage rates and benefits include the employer portion of FICA (7.65%), IMRF (9.36%), and retiree health insurance (\$4.81/hr.). These costs are included as the match requirement for this project and estimated at \$8,261.

Contracted services for tree planting, pruning, and removal of invasives, are based on qualified contractor quotes as are costs for trees, mulch, and tree bags. IAA Advanced Training course fees are estimated at \$150/course per an IAA verbal quote and requirements of the IAA Course Catalog. Contracted services (\$15,869) and supplies (\$8,789) will be purchased using grant funds.

Section 7: Sharing Knowledge and Outcomes (10)

750 characters (maximum including spaces) – Identify strategies that will be used to engage people and share outcomes and knowledge.

Evaluation Criteria for Sharing Outcomes and Knowledge:

- Applicant identifies strategies for outreach to the community about this grant's outcomes.
- The project includes efforts to share knowledge, tools, or innovations that have practical application beyond the grant period.

The City of Aurora will utilize its marketing capabilities to share knowledge about this project and its outcomes with the community. A press release will be issued to publicize the grant award and educate the community about the project and its benefits. The city will post information on its website and social media accounts, including the city's Facebook page. Representatives from the Downtown Services Division and/or the Grants Division will share information about the grant award and the content of the project with constituent groups such as: Aurora Downtown, the Mayor's Sustainable Advisory Board, the Tree Board, and City Council.

Section 8: Timeline (10)

1,500 characters (maximum including spaces) – Provide an approximate schedule of intermediate steps and major milestones.

You may group activities by month or by quarter, as appropriate. You are welcome to create a numbered or bulleted list, or use the one below as a template. Include the following, as applicable.

- Planning / prep meetings
 - Who from your organization will be involved
 - When these meetings will take place
- Which steps need to be approved by your Board / Council
- Ordinance review / development / passing
 - Who will participate
 - Timeline for Board / Council review
 - Board or Council meetings (as appropriate) to approve items including an ordinance if applicable
- Finalizing the project & beyond
 - Reporting / invoicing
 - How will these items be updated or managed in the future
- Match activities
 - How, when, & what will you use as match

Evaluation criteria for timeline:

- The Applicant's timeline is clear and realistic
- Major milestones and required approvals are detailed
- Match activity timing is considered and clear

Timeline narrative:

Planning activities for this project are substantially complete. The Downtown Services Manager and the city's certified arborists provided the timeline. Planting, pruning, and clearing activities are weather-dependent and will follow the timeline as closely as conditions allow. Professional development activities are dependent on course schedules and may occur at any time during the grant period. Purchases in this project are below the city's bid threshold.

4/27/23: Grant approval by Finance Committee

5/9/23: Grant approval by City Council. Begin procurement processes.

May – June '23: Clear invasives & treat stumps.

June – Sept. '23: Mulch existing trees. Closely monitor area cleared of invasive species & remove new invasive growth. Arborists begin IAA Tree Site & Selection (TSS) training.

Sept.– Nov. '23: Prune trees in Millenium Plaza. Plant new trees per maps; add mulch & watering bags. Cohort 1 completes Urban Forestry Basic Training (UFBT).

Winter '23-'24: TSS training per IAA schedule.

April – May '24: Plant new trees on east bank in area cleared of invasives, per arborists' assessment. Prune trees in Rotary Plaza. Cohort 2 completes UFBT.

May – Sept. '24: Mulch and water existing trees. Fertilize year-old trees per arborists' recommendations and applicable standards.

Sept. – Nov. '24: Cohort 3 completes UFBT, as needed. Alternative planting time for east bank.

Sept. '24 – Aug. '25: Ongoing monitoring/maintenance per applicable standards. TSS training completed.

Section 9: Bonus Points (9 points)

Bonus points will be awarded for applications that go above and beyond the minimum requirements. Some of these bonuses will require a signed commitment from your Mayor, Executive Director, Board Chair, or other Chief Executive of your governmental entity, to be submitted with the application. This commitment can be found at the end of the bonus list.

Some of these bonuses will add additional required deliverables to your grant agreement. For these bonuses, you must complete the additional requirement to be eligible for reimbursement.

BONUS: Have you encouraged a peer community to apply for this grant? Or, has a peer community recommended that you apply for this grant? If so, please provide details in the box to the right. (2 points)	The City of Aurora has not collaborated with or encouraged a peer community for this grant project. However, options for collaboration are being explored for future grant cycles.
BONUS: Applicant commits to apply for Tree City USA if not presently a Tree City USA community, or commits to receiving a Tree City USA Growth Award if presently a Tree City USA community. Indicate commitment in the box to the right if this bonus applies (requires a signed commitment from the Mayor or Village President to be submitted with the application). (2 points)	The City of Aurora is a Tree City USA. While Aurora does not commit to a growth award in this grant cycle, the city intends to review the conditions for a growth award in future grant cycles and consider options for growth.

BONUS: Applicant formally adds a requirement to form a tree board or other advisory group. See Appendix B of the RFP for a description of this added commitment. (requires a signed commitment from the Mayor or Chief Executive to be submitted with the application). (2 points)	The City of Aurora has had a tree board since 1992.
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Commitment to add additional grant deliverables:

I certify that, according to the above, my organization will comply with our self-selected bonus requirements listed in section 9 of this application. (requires signature of Mayor or chief executive).

Name: N/A

Title: _____

Organization: _____

Signature _____

Date _____

Final Instructions

Please be sure to include all of the following in your application. Once you have completed and collected all of these items, send it to Colette Copic at ccopic@mortonarb.org.

Application Checklist	
Cover Letter signed by the Mayor or chief executive	☒
Section 1: Applicant Background Information	☒
Section 2: Project Overview	☒
Section 3: Purpose and Need	☒
Section 4: Scope of Work	☒
Section 5: Leveraged Benefits	☒
Section 6: Budget Details	☒
Section 7: Sharing Knowledge and Outcomes	☒
Section 8: Timeline	☒
Section 9: Bonus Points (optional) signed by Mayor or Chief Executive	☒
Tree Inventory Maintenance Agreement (if applicable) Appendix A	☒
Tree Planting List (if applicable) Appendix B	☒
Tree Maintenance Agreement (if applicable) Appendix C	☒
Letters of Support (from organizations who can attest to your capacity to complete this project)	☒

Appendix A. Tree Inventory Maintenance Agreement

This Tree Inventory Maintenance Agreement between The Morton Arboretum and the Applicant certifies that regular and effective updates and maintenance will be performed for a period of five years, and will comply with the following requirements:

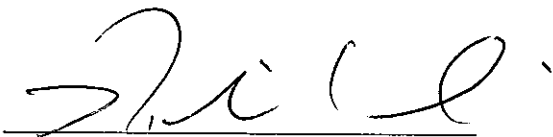
- The tree inventory shall be updated regularly to ensure that it reflects current conditions in the community. Tree data should be updated during cyclical pruning, or on another continuous basis.
- Inventory updates shall reflect new plantings, removals, replacements, pruning / trimming, condition updates, and maintenance recommendations.
- This work may be done in-house, by contractors, or by volunteers. However, everyone who is working on the update, whether as a paid or volunteer service, shall be qualified/certified or adequately trained to do so.
- Tree inventory updates shall result in timely, periodic updates to prioritization and other action items in an accompanying Urban Forest Management Plan, if applicable.

I certify that, according to the above, my organization will comply with tree inventory maintenance requirements. (requires signature of Forestry Department Director or equivalent)

Name: Richard C. Irvin

Title: Mayor

Organization: City of Aurora



Signature

03/23/23

Date

Appendix B. Tree Planting List

Species (common name)	Species (botanical name)	Number proposed	Anticipated cost per tree, planted	Notes
Sugar Maple Fall Fiesta	Acer saccharum Fall Fiesta	3	\$525	
Horsechestnut 'Briotti'	Aesculus hippocastanum 'Briotti'	3	\$490	
American Hornbeam	Carpinus caroliniana	3	\$480	
Northern Catalpa	Catalpa speciosa	2	\$525	
White Fringetree	Chionanthus virginicus	5	\$450	
American Hophornbeam Autumn Treasure	Ostrya virginiana Autumn Treasure	4	\$565	
Planetree Exclamation	Platanus x acerifolia 'Morton Circle'	3	\$500	
Northern Red Oak	Quercus rubra	8	\$505	
Eastern White Pine	Pinus strobus	3	\$500	
The mayor's signature on	Appendix A, above, applies	to trees planted and	inventoried as part	of this project.
Add additional sheets as needed				

Description of Proposed Planting Locations (attach map if applicable)

See attached map for planting locations. Specific varieties to be planted may vary based on available nursery stock. Varieties will be limited to those included in the city's Approved Street Tree Species List, Table I of the Arboricultural Specifications Manual.

Statement of Tree Diversity

Section 4.2 of the city's Arboricultural Specifications Manual provides guidelines for tree diversity. The manual lists acceptable and unacceptable tree species and expresses a preference for species native to Northern Illinois. To ensure diversity, all new plantings shall consist of no more than 30% from a single family, 20% of a single genus, and 10% of a single species. The manual includes an Approved Street Tree Species List (Table I), and a list of prohibited species (Table II).

Appendix C. Community Partner Commitment and Tree Maintenance Agreement

Community Partner Commitments and Tree Maintenance Agreements are required for tree planting projects.

Community Partner Commitment Agreement

This is an agreement between The Morton Arboretum (Arboretum) and a community partner or tree recipient (Partner) for the completion of a tree planting project and ongoing care of trees provided through this grant.

The following outlines the responsibilities of the designated Partner:

1. Select species diversity to meet grant requirements.
2. Select species from nurseries that are licensed by the State of Illinois.
3. Contact JULIE (Joint Utility Locating Information for Excavators) (all locations other than the City of Chicago or DIGGER for locations within the City of Chicago) two weeks before the planting event. These organizations check utilities before any digging occurs (811). For sites in the city of Chicago call 811 or 312-744-7000. For sites outside of the city of Chicago call 811 or 1-800-892-0123.
 - a. The landowner must call for utility locates to ensure the proposed planting sites are clear of utility lines.
 - b. Mark the proposed tree locations prior to the JULIE/DIGGER visit.
2. Care of the trees before, during, and post planting is the responsibility of the Partner.
 1. Ensure that trees are protected during the delivery process so they are adequately covered in transit and watered to ensure the trees do not get dried out.
 2. Inspect trees upon arrival to make sure stem to root attachment is solid and no damage to bark, branches or roots has taken place. Refuse trees that do not meet these requirements.
 3. Store the trees in a protected location until they are planted.
 - d. All trees must be watered appropriately, before, during, and after they are planted. The Partner will determine the water source and provide the water for the new trees on the day of planting and thereafter for a minimum of three years.

Tree Maintenance Agreement

This Tree Maintenance Agreement between The Morton Arboretum (Arboretum) and the Community Partner and/or Tree Recipient (Partner) certifies that the Partner will provide customary and reasonable tree care and maintenance three years post planting.

The Partner is responsible for mulching and watering the trees appropriately for three years to enable trees to become fully established and thrive. Following are the Partner's responsibilities:

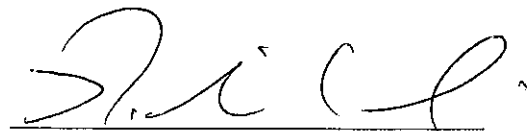
1. During the growing season approximately 10-15 gallons of water or 1" of water should be applied once weekly to the root ball of newly planted trees unless adequate soil moisture is present.
2. A 3" – 4" layer of organic, wood chip mulch will be maintained in a circular area around the base of the tree that is at least 3 feet in diameter, taking care that the mulch does not touch the trunk of the tree.
3. All tags, rope, and wire will be removed.
4. Trunk wrap may remain in place for the first winter season if necessary for thin-barked trees.
5. If trees are staked, stakes will only be used in windy locations and will be removed after one year.
6. All trees will be monitored for pests or other signs of stress, and conditions will be remedied when appropriate and possible.

I certify that, according to the above Community Partner Commitment Agreement and Tree Maintenance Agreement, I will comply with these requirements. (requires signature of Forestry Department Director or equivalent)

Name: Richard C. Irvin

Title: Mayor

Organization: City of Aurora



Signature

03/23/23

Date

If you would like tree care tips or tree related information please provide your email below:



CRTI Urban and Community Forestry Support
in the Chicago Region Grant Program

City of Aurora

Letters of Support



March 21, 2023
Chicago Region Trees Initiative
c/o The Morton Arboretum
4100 Illinois Route 53
Lisle, IL 60532

Attn: Colette Copic

Dear Ms. Copic,

The City of Aurora's Tree Board is pleased to support the city's application for the Chicago Region Trees Initiative's Urban and Community Forestry Support in the Chicago Region Grant Program. We discussed the proposed project at the Tree Board meeting on Monday, March 20, and the board members agreed that this project will bring welcome improvements to the number and condition of trees in our downtown neighborhood. The Tree Board approves of the selection of trees for planting, the removal of damaging invasive species, and the professional development opportunities this grant will bring to the city.

On behalf of the City of Aurora Tree Board, I thank you for your consideration.

Sincerely,

A handwritten signature in black ink that reads "Alexandra Voigt".

Alexandra Voigt
Deputy Chief of Staff, Mayor's Office
Chair, Tree Board



AURORA DOWNTOWN
EAT • DRINK • PLAY • MORE

March 21, 2023

Chicago Region Trees Initiative
c/o The Morton Arboretum
4100 Illinois Route 53
Lisle, IL 60532
Attn: Colette Copic

Dear Ms. Copic,

As the Chairperson of the Board of Aurora Downtown, a nonprofit organization that supports business and property owners in our downtown business district, Special Service Area One, I am pleased to support the City of Aurora and its Downtown Services Division in their application for the Urban and Community Forestry Support in the Chicago Region Grant Program. This project will contribute the revitalization of our downtown business district which is the heart of our community and now a rapidly growing residential neighborhood.

Aurora Downtown recognizes that a healthy and robust urban forest canopy provides tremendous benefits to the community. This project will improve quality of life for our residents and increase the appeal of neighborhood for visitors. We look forward to the increased tree cover and improved urban forest health this project will bring to downtown Aurora.

Sincerely,

Brian Failing
Chairperson of the Board of Directors

**BOARDS & COMMISSIONS**

Mayor's Sustainable
Aurora Advisory Board

March 20, 2023

Chicago Region Trees Initiative
c/o The Morton Arboretum
4100 Illinois Route 53
Lisle, IL 60532

Dear Ms. Copic,

The Mayor's Sustainable Aurora Advisory Board serves to support the city's Sustainability Plan and recommends activities that support sustainability throughout the city. The Board acknowledges that trees are a valuable resource that is particularly scarce in downtown Aurora, which currently has only a 15.82% tree canopy cover.

We celebrate the increase of the neighborhood's tree canopy this project will provide, and we welcome the elimination of some damaging invasive species. We are particularly pleased that this project will not only ensure that the area's existing trees remain healthy and strong, but will also improve the level of professional knowledge among the entire staff of the Downtown Services Division, making it easier for the city to maintain thriving downtown trees for years to come.

The Sustainability Advisory Board is pleased to support this grant application. We extend our thanks to the Chicago Region Trees Initiative grant committee and reviewers and respectfully request full funding for the proposed project.

Sincerely,

Kristina Murphy

Sustainable Aurora Advisory Board Member

Lisa McClellan

Sustainable Aurora Advisory Board Member

Mavis Bates

Sustainable Aurora Advisory Board Member

Rahman Khan Vena Mohamed

Sustainable Aurora Advisory Board Member

Unavailable

Valencia Gidron

Sustainable Aurora Advisory Board Member

Adam Kittler

Sustainable Aurora Advisory Board Member

Kevin O'Neill

Sustainable Aurora Advisory Board Member

Alex Minnella

Staff Liaison, Sustainable Aurora Advisory Board



CRTI Urban and Community Forestry Support
in the Chicago Region Grant Program

City of Aurora

Vendor Quotes



31 W545 Diehl Rd, Naperville, IL 60563
 Phone: 630.416.9999 Fax: 630.416.9090
 www.kaknes.com

Follow us on.



Quote

Date	Quote#
3/8/2023	4597

Name / Address
City of Aurora Attn: Purchasing Division 44 E. Downer Place Aurora, IL 60507

Ship To
MUST HAVE A PO - NO EXCEPTIONS! 2023 PO#300232 2023 PO#300233

P.O. No.	Terms
300232	Net 30

Qty	Description	Price	Total
3	Maple Sugar Fall Fiesta® 2"	275.00	825.00
3	Horsechestnut 'Briotti' #25	240.00	720.00
3	Hornbeam American 2"	230.00	690.00
2	Catalpa speciosa 2.5"	275.00	550.00
5	Fringetree (Chionanthus virginicus) 6'	200.00	1,000.00
4	Hornbeam Ostrya Autumn Treasure® 2"	315.00	1,260.00
3	Planetree Exclamation 2"	250.00	750.00
4	Oak Red 2"*	255.00	1,020.00
3	Pine White 6'	250.00	750.00
	SUBTOTAL		7,565.00
	10% SALES DISCOUNT	-10.00%	-756.50
* This project will plant the trees listed here, plus an additional 4 red oaks. Total cost for 34 trees = \$7,829.00			

Prices good for 30 days from date of quote. Availability subject to change. Quotes are not confirmed orders.

Total \$6,808.50

JOIN PRO PLUS

[Home](#) > [Landscaping](#) > [Irrigation Supplies & Equipment](#) > [Tree Watering Bags](#) > Leonard ArborRain Tower Tree and Plant Hydrator

[VIEW MORE DEALS](#)[VIEW MORE DEALS](#)

Buy 22 for \$23.87 each and **save 3%**

1

ADD TO QUOTE

1/6

Effortlessly hydrate your young and newly-planted trees!

We engineer our Leonard ArborRain Towers to be tall and slim. They measure only 18 inches in width when filled with water. A single bag holds 20 gallons of water and fits trees up to 4 inches in diameter. The locking zipper allows you connect several bags for larger-diameter trees. We construct our Leonard ArborRain Towers using a durable, reinforced polyethylene material. These green bags feature a black plastic interior and a sealed bottom. Each ArborRain includes two triple-stitched handles.

ArborRain Towers keep your young trees hydrated and dramatically increase their survivability. Professionals place their trust in the innovative design of these towers. They are ideal for both cloned landscapes and nurseries. ArborRain Towers deliver water directly to the roots of your plants. Strategically

READ MORE...

Share





Product Information

Product Specs

- Material: Polyethylene
- Volume (gallons): 20
- Height (inches): 21
- Width (inches): 18
- Maximum tree diameter (inches): 4 (per bag)
- Drip time (hours): 5 to 8

Product Features

- Durable, reinforced polyethylene material
- Tall/slim design with large fill opening
- Black plastic interior liner
- Locking zipper
- Sealed bottom edges
- Triple-stitched lift straps
- Strategically-located drain holes

Product Benefits

- Effortless hydration to young or newly-planted trees
- Green polyethylene blends in with the landscape
- Black interior blocks sunlight and prevents mold growth
- Secure locking zipper allows you to connect multiple bags for large-diameter trees
- Sealed bottom edges deliver the perfect amount of water directly to the roots of your plants
- Prevents runoff caused by excessive watering

PFR Warranty

- We cover this product with a 5-year warranty.



5 A Commerce Dr.
Oswego, IL 60543
(630)554-2722

Date: 6-8

Contractor Name: C.A. SOUTHWORTH		Invoice # 7417y
☐ Credit Card	Sold By	Job Site
☒ On Account		PO 247643
☐ Check # _____		
☐ Cash		

Quantity	Product	Amount	
	Double Ground / Triple Ground		
	Dyed Coco / Walnut / AuBurn		
	Dyed Red / Black		
4	Triple Ground Organic	60	
	Pulverized Dirt		
	Garden Blend		
	CA6 / CA7 / 3/8 Chips		
	Washed Stone / 3/4 / 2in		
	Sand / Torpedo / Mason		
	Dump Fees / Brush / Leaves / Ect.		
	Dirt / Clay / Ect.		
	Grass Clippings		

Total: 60		60
Signature: <i>[Signature]</i>		

Mulch quantity is in cubic yards.
\$60/4 yds. = \$15/yd.
We estimate this project will require 14 yds of mulch.



SavATree Warrenville Office
30W310 Butterfield Road,
Warrenville IL 60555
P: 630-821-7752
E: Warrenville@savatree.com

Estimate

Prepared By: David Gaydos
ISA Certified Arborist (IL-4625A)
dgaydos@savatree.com

Prepared for
City Of Aurora
Service Address:
City Of Aurora
44 E Downer Place, Aurora IL 60505
Account Key:
649425

Date: 1/23/2023
Estimate #: 868047
Billing Key: 549771

Recommendations

General Tree Care

General Tree Care **\$1,764.00**

Four (4) Linden (Tilia sp.), in Millennium Plaza - Perform natural pruning intended to maintain the tree's characteristic growth pattern to manage/improve health by applying:

- reduction cuts on live branches by removing lower branches to a height of 7-8 ft
- reduction cuts on live branches by removing 2-4 ft in length for clearance from buildings
- branch removal cuts on dead branches 1 inch diameter and larger throughout the entire crown
- branch removal cuts on live branches by removing 5-10% of foliage/buds throughout the entire crown

Clean affected work areas and haul resulting wood, brush and branches

Identified hazards and obstacles

Hazard: Animals

Hazard: Deadwood

Hazard: Dogs

Hazard: Pedestrians

Hazard: Slope

Obstacle: Landscape Decor

Obstacle: Lights

Obstacle: Sidewalk

Obstacle: Understory Trees and Shrubs

General Tree Care **\$1,764.00**

Authorization

TOTAL

I authorize the work described above and agree to the terms and conditions that follow.

General Tree Care \$1,696.00

Authorized By: _____ Date: _____

City of Aurora AK649425

Fuel Surcharge \$68.00

Note: Included in this program is 1 service for a total of \$1,764.00.

This proposal has been provided to you on a confidential basis. We kindly request that neither this proposal nor any of its contents be reproduced or shared with any competitor without the prior written consent of SavATree.

Sales tax, if applicable, will be added to the amounts of this estimate per your local and state tax jurisdiction. If you wish to pay via credit card, please click link to pay. A deposit of 50% may be required prior to the commencement of General Tree Care work. Thank you!

[\\$848 Pay](#)

By paying a deposit, I authorize the work described above and agree to the [terms and conditions](#).

OUR UNCONDITIONAL GUARANTEE

Should our service fall short of your expectations, please contact us immediately and we will do everything we can to make it right. Rev. 10-01-2021 aso-pdf

Fully Licensed & Insured

Tree Care Industry Accredited



[Testimonials](#)

www.savatree.com

[VIEW FULL TERMS AND CONDITIONS](#)

Proposal
for
City Of Aurora
C/O Cathy Hayden

For service at
44 E Downer Place
Aurora, IL

Prepared By
David Gaydos
ISA Certified Arborist (IL-4625A)



General Tree Care

The overall goal of General Tree Care is to support and enhance the structural integrity and form of trees and shrubs. Pruning can control the growth of plants to enhance their performance, increase their strength, productive capacity for fruit or flowers, and the general aesthetic appeal. In addition, hazard reduction pruning addresses safety concerns, strength and storm worthiness. In addition to tree and shrub pruning, our services include, cabling, bracing, stump routing, individual tree removal, emergency storm damage assistance and woodlot management. Our pruning work meets or exceeds the guidelines and standards outlined by the American National Standards Institute's (ANSI) A300 document. Smaller branches that are removed during pruning will be chipped, and these wood chips can be left on your property, if desired, for use as mulch. Larger branches will be cut into logs of firewood-length and stacked at the base of the tree.

Recommendations:

General Tree Care

Four (4) Linden (*Tilia* sp.), One (1) Maple (*Acer* sp.) and One (1) Birch, River (*Betula nigra*), in Rotary Plaza - Perform natural pruning intended to maintain the tree's characteristic growth pattern to manage/improve health by applying:

- reduction cuts on live branches by removing 2-4 ft in length for clearance from buildings and lights
- branch removal cuts on live branches by removing lower branches to a height of 7-8 ft for clearance from sidewalks
- branch removal cuts on live branches by removing 5-10% of foliage/buds throughout the entire crown
- branch removal cuts on dead branches 1 inch diameter and larger throughout the entire crown

Clean affected work areas and haul resulting wood, brush and branches

Identified hazards and obstacles

Hazard: Animals

Hazard: Deadwood

Hazard: Included Bark

Hazard: Pedestrians

Obstacle: Busy Street

Obstacle: Car

Obstacle: Lights

Obstacle: Sidewalk

Obstacle: Understory Trees and Shrubs

Obstacle: Windows

\$ 1,100.00

AUTHORIZATION TO PROCEED WITH ESTIMATE

SavATree has been given authorization to proceed with the estimate and detail of work as outlined in our proposal dated March 21, 2023.

General Tree Care

\$ 1,100.00

This proposal has been provided to you on a confidential basis. We kindly request that neither this proposal nor any of its contents be reproduced or shared with any competitor without the prior written consent of SavATree.

Thank you for your continued confidence in our professionalism.

I authorize the work described above and agree to the terms and conditions that follow.

AUTHORIZATION_____ **Dated**_____

Applicable sales tax is added to all services, which are billed upon completion. If you wish to pay via credit card, please complete the information below:

Circle One: MASTERCARD VISA DISCOVER AMEX

Card #_____ **Expire Date**_____

Arborist/Branch Contact:

Account # 649425

David Gaydos

ISA Certified Arborist (IL-4625A)

SavATree

30W310 Butterfield Road

Warrenville, IL 60555

P:(630) 821-7752

F:(630) 821-7773

E:dgaydos@savatree.com



Stantec Consulting Services Inc.
6605 W Steger Rd, Ste. A
Monee, IL 60449

March 14th, 2023

Attention: Cathy Hayen
Horticulturist
Public Works
City of Aurora
720 N. Broadway, Aurora, IL 60505

Reference: City of Aurora, **East Fox River Trail Invasive Clearing and Planting**

Dear Cathy,

Per our conversations, below are the specifications regarding the invasive woody clearing and native tree plantings for the City of Aurora, East Fox River Trail location.

Invasive Clearing 2023:

Stantec proposes to cut and remove all invasive/aggressive woody species within the project area ~0.10 acres. The woody vegetation will then be hauled off site and dumped at landscape waste facility. All remaining stumps from the cut material will be treated via herbicide application to achieve dieback and prevent resprouts.

Tree Planting 2024:

Stantec will plant 6 - 1.5" diameter trees provided by the City of Aurora in the project area along the East Fox River Trail. Trees will be wrapped with corrugated pipe for protection.

Task	Extended Cost
Invasive Woody Removal	\$3,005.00
Native Tree Planting Labor	\$1,495.00
Total	\$4,500.00

Planting cost/tree = approx. \$250, used as cost basis
for planting throughout the project.
\$250/tree X 34 trees = \$8,500



Stantec Consulting Services Inc.
6605 W Steger Rd, Ste. A
Monee, IL 60449

Stantec appreciates the opportunity to support the City of Aurora on this Project. If you have any questions about anything contained in this offer for services, please contact us at your earliest convenience.

Please note that Stantec assumes this project is not subject to prevailing wage

Regards,

Stantec Consulting Services Inc.

A handwritten signature in black ink, appearing to read 'Jack Giesler'.

Jack Giesler

Project Manager

Phone: 331.321.1466

jack.giesler@stantec.com

Clearing and Planting Area

~0.10 Acres



Arboricultural Specifications Manual

Aurora, Illinois

Trees planted as part of this project will be maintained following the guidelines of this manual, ANSI A300 and Z133.

1 Authority: Pursuant to authority granted under "An Ordinance Regulating the Planting, Maintenance and Removal of Trees, Shrubs, and Other Plants; Creating a Tree Board; and an Office of the official City designee of Aurora, Illinois, No. 092-96, Chapter 47 of the Code of Ordinances for the City of Aurora, adopted by the City Council of Aurora, Illinois on the 17th day of November, 1992, the City of Aurora hereby promulgates the following as the Arboricultural Specifications and Standards of Practice for Aurora, Illinois, herein called the Arboricultural Specifications Manual. Revisions approved on August 12, 2008

2 Policy

All work on public trees shall comply with "An Ordinance Regulating the Planting, Maintenance and Removal of Trees, Shrubs, and Other Plants" of the city of Aurora, Illinois, and this Arboricultural Specifications Manual.

The Arboricultural Specifications Manual shall be open to revision at any time that experience, new research, or laws indicate that improved methods or circumstances make it advisable, and only then by the official City designee with advice and assistance of the Aurora Tree Board and approval of the City Council, all as provided by in the above said Ordinance.

It shall be policy of the official City designee of Aurora and the Aurora Tree Board to cooperate at all times with the public, property owners, other municipal departments, and utility companies and non-profit organizations.

General Specifications

3.1 The Arboricultural Specifications contained in this document are to serve as a standard for all work performed on or with all public trees. These standards will apply whether the work is performed "in-house", contractually by private businesses, or by private individuals.

3.2. A free permit must be obtained from the official City designee before any person, either for himself or another, plants, prunes, removes, or destroys any tree, shrub or other plant in or upon the public right-of-way of any street, alley, sidewalk or any other public place as required by the City Tree Ordinance (section 47-2).

3.3 It shall be unlawful for any person to engage the business of planting, cutting, trimming, pruning, removing, spraying or otherwise treating any tree, shrub or other plant within the City of Aurora without first procuring a license as required by the City Tree Ordinance (section 47-45). All motor vehicles and other major equipment of any licensed business shall be clearly identified with the name of the licensee.

3.4 Authorized work on or with public trees, shrubs or other plants neither expresses nor implies a right to violate any law of the land while in process of performing such work.

Arboricultural Specifications Manual

Aurora, Illinois

- 3.5 All such work shall be conducted in a manner as to cause the least possible interference with or annoyance to others.
- 3.6 All personnel utilized for work on or with trees, shrubs or other plants shall be trained to perform the work properly and safely in accordance with these Arboricultural Specifications.
- 3.7 A qualified supervisor shall be present at all times when work is being performed except that he may be absent for short periods when necessary because of emergencies or other urgent matters.
- 3.8 Any injury to persons or damages to any improvement, vehicle, tree, shrub, plant, or structure while working with trees, shrubs, or other plants shall be promptly reported to the official City designee.
- 3.9 Any use of tools and equipment for pruning, trimming, repairing, maintaining, and removing trees, and cutting brush must be in accordance with the current American National Standards Institute Standards (ANSI Z133.1).
- 3.10 Pedestrian and vehicular traffic shall be allowed to pass through the work areas only under conditions of safety and with as little inconvenience and delay as possible. Whenever vehicular traffic will be delayed, the official City designee shall be notified.
- 3.11 Qualified street and sidewalk warning devices shall be in position as required at all times while work on public trees, shrubs, and other plants is being performed. In addition, adequate barricades and other warning devices shall be placed and flagmen shall be stationed as necessary for the safety of persons and vehicles.
- 3.12 Whenever electric lines, telephone lines, gas lines, water lines, sewer lines, or other improvements, public or private, upon a public area will be implicated or jeopardized by any authorized tree, shrub or other plant activity, the proper authorities of the utilities involved and property owner involved shall be consulted prior to performing any work activity and all requested precautions by any such authority shall be followed.
- 3.13 The Arboricultural Specifications Manual, the standard for work performed on or with trees, shrubs and other plants on a daily basis, shall be updated by the official City designee with the advice and assistance of the Aurora Tree Board at least every five years.

4

Plants

- 4.1 Street Tree Definition: All trees on public right-of-way between the curb and the property line along the side of streets or in medians of all streets, avenues or ways within the City.

Arboricultural Specifications Manual

Aurora, Illinois

4.2 Species, Cultivars and Varieties

4.2.1 **Table I: City of Aurora Approved Street Tree Species List**, lists the approved tree species or their varieties and cultivars acceptable for planting on City right-of-ways or City-owned property. The trees are listed by their, scientific name, common name, and size. The size of tree to be planted will depend on the width of the planting strip and available vertical growing height.

4.2.2 It is recommended that Northern Illinois native tree species be favored in selection due to their inherent characteristics and adaptability to our environmental conditions.

4.2.3 Unacceptable tree species or their varieties contained in Table II shall not be planted on City right-of-ways or other City-owned except in special locations when approved by the official City designee.

TABLE II: UNACCEPTABLE TREES FOR PARKWAY PLANTINGS

Botanical name	Common Name
<i>Acer negundo</i>	Box elder
<i>Acer saccharinum</i>	Silver Maple
<i>Ailanthus altissima</i>	Tree of Heaven
<i>Elaeagnus angustifolia</i>	Russian olive
<i>Fraxinus spp.</i>	Ash
<i>Ginkgo biloba (female)</i>	Female Ginkgo
<i>Morus spp.</i>	Mulberry
<i>Populus spp.</i>	Poplar, Cottonwood, Aspen
<i>Rhamnus spp.</i>	Buckthorn
<i>Salix spp.</i>	Willow
<i>Sorbus spp.</i>	Mountain Ash

4.2.4 It is recognized that there are trees contained in Table II presently growing in the City right-of-way as a result of previous planting. Upon the removal of these trees, if the planting space is to be replanted, it shall be replaced by an approved and accepted species listed in Table I.

4.2.5 Tree genera and species not listed in Table II or I may or may not be acceptable. Those plants, at the time this manual was prepared, did not constitute a substantial enough benefit or problem to the community to be included within the scope of this manual. Plants, which fall under these criteria, should be brought to the attention of the official City designee. The Tree Board, in conjunction with the official City designee, shall review the list of acceptable and unacceptable trees every five years to determine appropriate revisions.

4.2.6 When a specified site has been assigned a particular species and/or variety of plant, only that designated plant shall be used at the site. If that species shall be replaced, it shall be replaced by the same species and/or variety upon removal except upon revision, and approval by the official City designee, of the planting plan, which governs the site.

Arboricultural Specifications Manual

Aurora, Illinois

4.2.7 All new plantings shall adhere to Santamour (1990) guidelines for tree plantings within a city which specifies that municipalities should plant no more than 30% of a single Family (e.g. *Aceraceae*, Maple), no more than 20% of a single Genus (e.g. *Acer*) and no more than 10% of a single species (e.g. *Acer saccharum*).

4.3 Purchasing

The city is an active member of the Suburban Tree Consortium (S.T.C.). It is through the S.T.C that the City purchases and plants a portion of the trees that are planted annually on parkways.

5 Planting Stock Requirements

5.1 Size

5.1.1 All medium to large trees and their cultivars or varieties to be planted shall conform to American Standards for Nursery Stock ANSI Z60.1, 2004 unless otherwise specified by the official City designee. The trees and their cultivars or varieties shall be single-stemmed, have one dominant trunk, branches should be less than two-thirds trunk diameter, be a minimum of 1-1/2 inches in diameter, measured six (6) inches above the ground, have a root ball no less than twenty (20) inches in diameter and be no less than eight (8) feet in height.

Medium and Large Trees

Caliper diameter (inches)	1.5"	2.0"	2.5"	3.0"
Minimum root ball diameter	20"	24"	28"	32"
Minimum height	8'	10'	10'	12'
Maximum height	12'	14'	14'	16'

5.1.2 All small trees and their cultivars or varieties to be planted shall conform to American Standard for Nursery Stock ANSI Z60.1, 2004 unless otherwise specified by the official City designee. They shall be no less than five (5) feet in height, be single stemmed, have one dominant trunk, branches should be less than two-thirds trunk diameter, and have at least eight (8) branches on the upper half of the tree and have a root ball no less than sixteen (16) inches in diameter.

Small Trees

Height	5 feet	6 ft. and above		
Caliper diameter (inches)		1"	1.5"	2.0"
Minimum root ball diameter	16"	18"	20"	24"

Arboricultural Specifications Manual

Aurora, Illinois

5.2 Grade: All trees and their cultivars or varieties at the time of planting shall be free from disease, harmful insects, mechanical injuries or other objectionable features that will affect the future health and/or the overall appearance. They shall have straight trunks and well-developed, balanced branching patterns. The trees shall have a well-developed root system characteristic of the species and cultivar or variety and exhibit evidence of proper nursery pruning practices. Additional grade requirements shall be in accordance with the standards set forth in American Standard for Nursery Stock, ANSI Z60.1, 2004.

5.3 Type: All trees and their cultivars or varieties to be planted shall be balled and burlapped. No bare rooted plants will be accepted. Trees grown in root-control bags and containers are acceptable with approval by the official City designee.

5.4 Acceptance: All planting stock shall be inspected upon arrival. Any plant that does not meet the standards of this manual will not be accepted.

5.5 Transport

5.5.1 All planting stock shall be handled with care so as to minimize damage to the trunk, crown and root system. Planting stock shall be handled by the root ball and is not to be dragged, thrown or dropped off an elevated platform. Any tree that exhibits poor handling or has sustained damage during transport to planting site or holding site shall be rejected and replaced at the contractor's cost.

5.5.2 Root balls of planting stock shall be monitored to prevent drying out and kept moist by watering if needed. If trees are not to be planted immediately root balls should be covered with mulch and kept moist.

5.5.3 Plants shall be secured during transit. The crowns of planting stock shall be covered when transporting over extended distances or at high speeds to prevent wind desiccation.

6 Planting Specifications

6.1 Site criteria and assessment of the planting site shall be conducted prior to the planting of trees as follows:

Visibility

Above and belowground hazards

Probability of long-term survival

Soil conditions (e.g. slope, drainage, compaction, new construction)

Amount of sunlight

Access to water or irrigation

Obstacles and utility location

Overall benefit to the community

Likelihood of private participation and financing

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6.2 Development

6.2.1 City projects: The development or redevelopment of a site owned by the City shall be subject to the planting standards of this manual. City projects include but are not limited to: parks, streets, medians, substations, treatment plants, plazas, and city buildings. These projects shall allow for the appropriate amount of street tree plantings. The official City designee shall approve all street tree aspects of the plan.

6.2.2 Private projects: Parkways or public thoroughfares within areas that are developed or redeveloped by a privately funded individual, partnership or entity shall be planted with the appropriate amount and composition of street trees. The street tree planting will be the financial responsibility of the individual, partnership or entity responsible for the project. The street trees shall be planted in the City-owned parkways according to the standards of this manual. Special consideration should be given to plant lists, location and spacing standards and planting standards. The official City designee shall approve all street tree aspects of development or redevelopment plans.

6.3 Locations and Spacing

6.3.1 The size limit for tree sizes regarding parkway widths are as follows.

Tree Size	Minimum parkway width
Large Tree	8 feet
Medium tree	6 feet
Small tree	4 feet

6.3.2 Where there is a parkway width less than four (4) feet, the tree shall be planted beyond the sidewalk toward private property if the City has easement rights. If the City does not have easement rights then it is recommended that the City take the necessary steps to obtain easement rights.

6.3.3 Where trees are to be planted in the parkway or median they shall be centered and spaced evenly according to size along the planting strip.

6.3.4 No tree shall be planted on the parkway or in any public thoroughfare at a distance less than that specified by the visibility triangle formula or fifty (50) feet, which ever distance is appropriate by the City Engineer, from the point of intersection of any given street lines within the city.

6.3.5 Trees shall be planted at least fifteen (15) feet from driveways and alleys.

6.3.6 Medium to large trees shall not be planted closer than fifteen (15) feet from all utility poles, to allow for line maintenance, and lamp posts, for proper lighting. Small trees shall not be planted closer than ten (10) feet from any utility poles or lampposts. All trees shall be planted a minimum of ten (10) feet from all fire hydrants, water lines, sewer lines and water sewer mains.

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6.3.7 Trees planted near any road sign shall be placed in a manner not to obstruct the visibility of any part of the sign at time of planting or in the future. In the event that a sign will be moved to accommodate a tree, the sign shall be moved before the time of planting.

6.3.8 No tree shall be planted within fifteen (15) feet of any building or permanent structure.

6.3.9 When overhead wires are present above planting strips, only small trees listed in TABLE I Approved Species List shall be planted. Exceptions may be made by the official City designee if the wires overhead are either transmission or main distribution lines that are at a height that will allow the planting of a medium sized tree.

Minimum Planting Distance from Objects

Above Ground		
Minimum tree planting distance		
<u>Object</u>	<u>Medium and Large Trees</u>	<u>Small Trees</u>
City of Aurora water box	Ten (10) feet	Ten (10) feet
City of Aurora fire hydrant	Ten (10) feet	Ten (10) feet
City of Aurora street light	Fifteen (15) feet	Ten (10) feet
Utility pole	Fifteen (15) feet	Ten (10) feet
Driveway entrance and alleys	Fifteen (15) feet	Fifteen (15) feet
Building or permanent structure	Fifteen (15) feet	Fifteen (15) feet
Existing/proposed parkway tree.	Thirty-five (33) feet	Twenty-five (25) feet
Cross walk	Ten (10) feet	Ten (10) feet
Street Intersection	Fifty (50) feet	Fifty (50) feet

Below Ground		
Minimum tree planting distance		
<u>Object</u>	<u>Medium and Large Trees</u>	<u>Small Trees</u>
Water line	Ten (10) feet	Ten (10) feet
Sewer line	Ten (10) feet	Ten (10) feet
Water Sewer mains	Ten (10) feet	Ten (10) feet
Sanitary Line	Ten (10) feet	Ten (10) feet
Storm Sewer	Ten (10) feet	Ten (10) feet

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6.3.10 Spacing of sizes

6.3.10.1 The largest possible tree size shall be used for each planting site.

6.3.10.2 Spacing of trees shall be determined the official City designee according to the local site conditions, the species used and growth characteristics of the tree to be planted. General specifications are as follows:

Tree Size	Center to Center Spacing	Minimum planting distances
Large Tree	35 feet	33 feet
Medium tree	35 feet	33 feet
Small tree	25 feet	25 feet

6.3.10.3 When planting a new tree next to an existing parkway tree of a different size class, the minimum spacing should be calculated by averaging the spacing requirements for the two size classes. For example, a new small tree planted next to an existing large tree, should be planted at a distance of 30 feet.

6.4 Tree Pit Standards

6.4.1 No tree pit will be dug unless the official City designee marks the location.

6.4.2 Pits for the planting of street trees shall be two (2) to three (3) times the width of the root ball. The pit should be saucer-shaped or bowl-shaped. The sides should slope gradually. Maintain undisturbed soil beneath the root ball; do not loosen soil in center of hole. The center of the hole should be firm to help stabilize the tree. Deglaze; scarify sides of hole with a shovel to allow for better root penetration.

6.4.3 Directional orientation of tree in pit. Tree trunk should be marked in nursery. At the time of planting, orient tree so it faces the same direction as it was grown in nursery. For example, mark all trees on north side and transplant trees with mark facing north.

6.4. 4 The tree should be planted slightly higher than it was originally grown to allow for settlement. In poorly drained soil, the root ball shall be elevated in relation to the surrounding grade. The depth of the root ball shall be measured from the bottom of the root flare to the bottom of the root ball. Soil above the root flare shall not be considered in the ball depth measurement and should be removed. If there is extra soil over structural roots, leave soil intact until tree is placed in hole. The resulting hole shall place the root flare not more than one-inch (1”) above of surrounding soil grade.

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6.4.5 Do not amend soil. In all but exceptional cases, the backfill around root ball shall be the same soil as that which was removed from the hole. In cases where large amount of rocks, stones, other debris are encountered, debris shall be removed and supplement the backfill with top soil. In soils that have high clay content, the soils should be amended with twenty-five (25) percent organic matter.

6.4.6 Around the base of all newly planted trees, a small berm of soil slightly larger than the root ball shall be constructed. Organic mulch shall also be added within the soil berm. Initial depth of organic mulch should be between 2 to 4 inches. Keep mulch a minimum of 3" from tree trunk; mulch shall never be in contact with trunk.

6.4.7 All waterproof, water repellant and non-biodegradable wrappings shall be removed from around the root ball. Remove ropes, strings and wrappings from around trunk and the top 50% of the root ball after tree has been set in pit.

6.4.8 Baskets: When full baskets are used in the delivery of balled and bur lapped trees, remove at least the top half of the wire basket before backfilling. When low profile baskets are used, the removal of basket is not required. Root containment grown trees must have the entire bag removed.

6.4.9 Backfilling shall be done in way to minimize air pockets. Do not cover the top of root ball with soil. Back fill soil shall be tamped lightly. Excessive tamping may compact soil and limit water penetration and slow root growth. Planting areas are to be finish graded to conform to surrounding grade.

7 Early Maintenance

7.1 Establishment: Newly planted trees need special attention to ensure that they become established. The first few years after transplanting are a critical time in the life of a tree as mortality rates may be excessively high. All maintenance practices shall follow approved arboricultural practices.

7.2 Watering: Promptly after planting, the soil surrounding the tree should be thoroughly saturated. A second watering to completely saturate the soil should be done ten (10) days to no more than fourteen (14) days after planting. Additional watering every 10 to 14 days during the balance of the current season and next growing season is recommended to help maintain adequate soil moisture. When natural precipitation maintains good soil moisture, watering may be delayed until the next cycle time if needed. Take care not to over water. Excessive heat and drought requires special attention given to newly planted trees and soil moisture levels must be maintained.

7.3.1 When stability is a problem, newly planted trees shall be staked according to the methods recommended by International Society of Arboriculture (See Attachment 1). Stakes and support lines should be removed after the first growing season.

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7.3.2 Newly planted tree species with thin bark should be wrapped to help prevent sunscald and other trunk damage (See Attachment 2). Trees planted in fall should be wrapped at time of planting. Spring planted trees should be wrapped in late fall. Unwrap fall and spring planted trees in early spring of the next growing season.

7.4 Fertilization: Fertilization of newly planted trees is generally not recommended unless it is determined that soil lacks essential nutrients, or soil conditions prevent the uptake of essential nutrients. Only slow-release fertilizer shall be used on newly transplanted trees to prevent fertilizer injury. Tree fertilizing methods shall conform to American National Standards Institute (ANSI) A300 Standard for Tree, Shrub, and Other Woody Plant Fertilization specifications.

7.5 Inspection: Periodic inspections of newly planted trees for pests and diseases should be done to ensure the continued health of the tree.

7.6 Pruning: The pruning of newly planted trees is not recommended, except for the removal of dead or broken branches. Water sprouts growing on lateral branches should be removed when they reach the diameter of a pencil.

8 General Maintenance

8.1 Pruning

8.1.1 All pruning of City trees shall conform to International Society of Arboriculture recommendations, ANSI Pruning and Safety Standards: ANSI A300 Tree, Shrub, and Other Woody Plant Maintenance – Standard Practices (Pruning), and ANSI Z133.1-2006 Pruning, Repairing, Maintaining and Removing Trees and Cutting Brush – Safety Requirements. Pruning should be done to develop good structure, promote general good health and vigor of the tree. To the extent possible, pruning shall maintain tree crown shape and symmetry typical of species growth habit.

8.1.2 All trees shall be maintained as not to endanger, interfere or conflict with public safety

8.1.3 Under no circumstances shall a City owned tree be "topped". Topping is the practice of severe pruning of a tree, disregarding nodes and crotches, to drastically reduce the height of a tree. Topping adversely affects the natural growth structure of a tree and has the potential to create a hazardous tree.

8.1.4 All established medium to large trees shall be pruned to allow free passage of pedestrians and vehicles at a height no less than ten (10) feet of clearance above sidewalks and sixteen (16) feet of clearance at curbside.

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8.1.5 All pruning cuts shall be made with a saw or by-pass style pruning shear and only at nodes or crotches. A pruning cut that removes a branch back to the trunk or parent limb shall be made close to trunk or limb without leaving a stub. Cuts shall be made without cutting into the branch collar. No tipping of branches shall be allowed. Tipping is a practice of cutting lateral branches between nodes to reduce crown width. A pruning method known as drop crotch pruning shall be used to reduce the length of a branch or parent stem. Branches too large to be supported by one hand shall be precut for safety and to avoid the splitting or tearing of the bark. Large limbs shall be lowered safely in a controlled manner with ropes and other equipment.

8.1.6 Unless under emergency situations or during tree removal, spurs or climbing irons shall not be used for pruning live trees.

8.1.7 Oak trees shall be pruned only during the months of November through March. Avoid pruning between April through October to prevent the spread of Oak Wilt.

8.1.8 After working on a diseased tree, all pruning equipment shall be disinfected before working on another tree.

8.1.9 Upon the completion of work performed on City trees all branches, twigs, leaves, chips and larger portions of the tree shall be promptly removed and properly disposed of by those performing the work.

8.2 Spraying

8.2.1 Precautions shall be undertaken to inform, warn and protect the public before spray applications of pesticides and other potentially hazardous chemicals begin. Local conditions such as wind and temperature shall be considered before spraying. Drift potential shall be examined in relation to the proximity to playgrounds, schools and high traffic density areas before any spraying is performed.

8.2.2 Spraying shall only be performed by Certified Commercial Pesticide Applicators and in accordance with accepted arboricultural standards and all State and Federal regulations. The Applicator shall read and understand label information of the chemicals being used.

8.2.3 Spraying shall only be done for specific insects or diseases with the proper materials and equipment, in the necessary strength, and applied at the proper time to ensure control.

8.2.4 All spray equipment should be kept clean and in good working order. Spray machines should give uniform coverage. Tanks and other equipment shall be washed out and drained in approved drainage areas.

8.2.5 Ineffectual control, damage, injury or death to plants, animals or persons resulting from the use of spray materials exceeding the limitations of the manufacturer's guarantee shall be considered the responsibility of the licensed operator.

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8.3 Fertilization: The fertilization of City trees shall be in accordance with accepted arboricultural standards. Methods of applications for fertilizers shall be determined by the official City designee and conform to ANSI A300 Standard for Tree, Shrub, and Other Woody Plant Fertilization specifications.

8.4 Cavities: The treatment of cavities shall be in accordance with accepted arboricultural standards. The official City designee shall determine the method for treatment of cavities.

8.5 Cabling and Bracing

8.5.1 The City does not, as a policy, cable and brace parkway trees. If warranted, cabling /bracing methods and materials shall conform to the ANSI A300 Tree, Shrub, and Other Woody Plant Maintenance – Standard Practices (Support Systems a. Cabling, Bracing, and Guying) or accepted arboricultural standards.

8.5.2 Bracing is not to be used as a substitute for cabling but rather in conjunction with cables.

9 Tree Protection

9.1 Protection or Removal: In the circumstances where construction and utility operations underground will affect the health of a tree, a determination will be made considering the overall value of the tree. The criteria for determining a value for a tree will be based on species, age, condition, cost of preserving the tree, and urgency of work to be completed. A decision based on this value will be made concerning the protection or removal of the tree in question by the appropriate City designee.

9.2 Cutting Roots. Cuts made to large roots should be avoided if possible. If circumstances require cutting roots, then clean, flush, smooth cuts shall be made using the proper pruning equipment.

9.3 Open Work Pits: Work pits that need to be open for an extended time requires special protection methods for trees. The roots shall be cut closer to the tree in relation to the construction zone. A temporary wall shall be put up between the tree and construction zone. The area between the root zone and the construction zone should then be backfilled and kept moist. Work pits should not stay open any longer than necessary to complete work. Contractor shall secure work site and close off work site to pedestrian and vehicular traffic.

9.4 Construction Zones

9.4.1 Trees to be protected in construction zones and the dimensions of those zones shall be determined by the official City designee and the City Engineer or appropriate City Official.

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9.4.2 All trees in a construction zone shall be protected by a physical barrier which encircles the drip line of the tree. Protective fencing. A highly visible physical barrier such as orange vinyl construction fencing, chain link fencing, snow fencing or other similar fencing shall be used for protection around the critical root zone area. The critical root zone of a tree can be estimated by measuring the radius out from the tree trunk as defined as one foot for each inch of trunk diameter at breast height (54 inches). Protective fencing shall be supported at a maximum of 10-foot intervals by metal T-posts or approved methods substantial enough to maintain fence upright and in place. Wooden stakes and rebar are not considered substantial enough support.

9.4.3 In situations where a protected tree remains in the immediate construction area and the tree trunk and is in danger of being damaged by equipment or other activity, the contractor shall protect the tree by encircling the trunk with 2" x 4" lumber secured with wire or other means that do not cause damage. This trunk protection material shall be removed upon completion of construction project.

9.5 Utility Operations

9.5.1 Any underground utility installations or operations that come in conflict with City street tree roots are subject to the review and approval of the official City designee.

9.5.2 Open trenching is prohibited inside the drip line of a City tree unless approved by the official City designee. In a situation where trenching is necessary within the drip line, the trench shall be dug by hand so roots can be bridged or tunneled to minimize damage.

9.5.3 Tunneling under trees: The appropriate City designee shall determine the tunneling depth and distance for under ground utility installations or operations near City-owned trees. Under no circumstances is the tunnel to be less than two (2) feet in depth.

TABLE IV: Specifications for Trenching and Tunneling for Utility Operations

Tree Diameter	Distance of Tunnel from Center of Tree	Minimum Depth of Tunnel or Trench
5" to 9"	6 ft.	2-1/2 ft.
10" to 14"	10 ft.	3 ft.
15" to 19"	12 ft.	3-1/2 ft.
20" +	15 ft.	4 ft.

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10 Tree Removal

10.1 Determination and Criteria: the official City designee will make Determination for the removal of a tree if any of the following conditions exist:

10.1.1 A tree that is infected with an epidemic disease or insect and chemical or mechanical treatments are not possible methods of control, or removal is the recommended practices to prevent transmission.

10.1.2 A tree that poses a safety hazard that cannot be corrected by pruning, transplanting, or other treatments.

10.1.3 A tree that interferes with the growth of a more desirable tree(s).

10.1.4 A tree that has a negative aesthetic value.

10.1.5 Work improvements or installations will kill or render a tree a public hazard

10.1.6 Preservation of a tree is not cost effective.

10.1.7 A tree which is a recurring problem due to root interference with water mains, sewer mains, water service lines, and sewer service lines.

10.1.8 A tree is dead

10.1.9 A tree is declared a Public Nuisance (see Section 47-8. Public Nuisances of City Code)

10.1.10 A tree is injured by construction, lightning, vandalism, or auto accident and can not be reasonably saved.

10.1.11 More than fifty percent (50%) of the crown is missing, dead or dying.

10.1.12 Unauthorized trees recently planted that do not meet code requirements due to species selection, spacing or location.

10.1.13 Tree trunk is growing into and damaging a fence, utility pole, fire hydrant or other utility fixtures.

10.1.14 Large-growing species growing under power lines that cannot be pruned for adequate clearance without compromising the tree's long-term survival, structure or appearance.

10.2 Standards: All work performed in the removal of a tree shall be in accordance with the International Society of Arboriculture and American National Standards Institute (ANSI).

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10.3 Stumps: All stumps on city property shall be removed to a depth of at least eight (8) inches and all holes remaining shall be filled in with soil and planted with sod or seed.

10.4 Disease Prevention: Certain precautions must be taken when removing a diseased tree to ensure the disease will not continue to be transmitted after the tree is removed. The official City designee shall determine these precautions. After work is completed on a diseased tree, all saws and other cutting equipment must be disinfected before working on another tree.

10.5 Debris Removal: Upon the completion of work performed on City trees all branches, twigs, leaves, chips and larger portions of the tree shall be promptly removed and properly disposed of by those performing the work.

Amendments

The Arboricultural Specifications Manual may be modified, amended, or extended at any time that experience, new research or laws indicate improved methods or whenever circumstances make it advisable. The amendments shall be made with the advice; assistance and approval of the Tree Board. All amendments to this document shall be approved by the City Council.

Updated: September 2017

TABLE I: City of Aurora Approved Street Tree Species List

Santamour (1990) established guidelines for tree planting within a city:

Plant no more than 30% of a **family**: i.e. Aceraceae

Plant no more than 20% of a **genus**: i.e. *Acer* 'freemanii', *Acer rubrum*, *Acer platanoides*, *Acer saccharum*, etc.

Plant no more than 10% of a **species**: i.e. *Acer saccharum*

Limit use of Trees due to Overplanting

Legend

Salt Tolerance:

T= Plants with highest degree of salt tolerance. Use in the most exposed areas

M = Plants with a moderate degree of salt tolerance. Use in low salt areas

Size:

L= > 40 ft.

M = 30 to 40 Ft.

S = up to 30 ft.

Scientific Name										
Family	Genus	Species	Cultivar	Common Name	Size	City Parkway	Under Wires	Salt Spray Tolerance	Soil Salt Tolerance	Spring Planting best
Aceraceae	<i>Acer</i>	<i>miyabei</i>		Miyabe Maple	L	•		T		
Aceraceae	<i>Acer</i>	<i>miyabei</i>	Morton'	State Street® Miyabe Maple	L	•		T		
Aceraceae	<i>Acer</i>	<i>nigrum</i>		Black Maple	L	•		M		
Aceraceae	<i>Acer</i>	<i>rubrum</i>	Redpointe 'Frank Jr.'		L	•				
Aceraceae	<i>Acer</i>	<i>saccharum</i> (very site specific)	Green Mountain'	Green Mountain® Sugar Maple	L	•				
Aceraceae	<i>Acer</i>	<i>saccharum</i> (very site specific)	Morton'	Crescendo Sugar Maple	L	•		M		
Aceraceae	<i>Acer</i>	× <i>freemanii</i> (<i>A. rubrum</i> × <i>A. saccharinum</i>)	Autumn Fantasy'	Autumn Fantasy Maple	L	•		M		
Aceraceae	<i>Acer</i>	× <i>freemanii</i> (<i>A. rubrum</i> × <i>A. saccharinum</i>)	'Marmo'	Marmo Maple	L	•		M		
Aceraceae	<i>Acer</i>	× <i>freemanii</i> (<i>A. rubrum</i> × <i>A. saccharinum</i>)	'Sienna'	Sienna Maple	L	•		M		
Hippocastanaceae	<i>Aesculus</i>	<i>hippocastanum</i>	Baumannii'	Baumann Horse chestnut	L	•		T	•	
Hippocastanaceae	<i>Aesculus</i>	<i>octandra</i>		Yellow Buckeye	L	•		M		•
Bignoniaceae	<i>Catalpa</i>	<i>ovata</i>		Chinese Catalpa	L	•		T	•	
Bignoniaceae	<i>Catalpa</i>	<i>speciosa</i>		Northern Catalpa	L	•		T	•	
Ulmaceae	<i>Celtis</i>	<i>occidentalis</i>		Hackberry	L	•		M		
Ulmaceae	<i>Celtis</i>	<i>occidentalis</i>	'Chicagoland'	Chicago land Hackberry	L	•		M		
Ulmaceae	<i>Celtis</i>	<i>occidentalis</i>	'Windy City'	Windy City Hackberry	L	•		M		
Ginkgoaceae	<i>Ginkgo</i>	<i>biloba</i>		Ginkgo (male only)	L	•		M	•	
Ginkgoaceae	<i>Ginkgo</i>	<i>biloba</i>	Autumn Gold'	Autumn Gold Ginkgo	L	•		M	•	
Ginkgoaceae	<i>Ginkgo</i>	<i>biloba</i>	'Magyar'	Magyar Ginkgo	L	•		M	•	
Ginkgoaceae	<i>Ginkgo</i>	<i>biloba</i>	Princeton Sentry'	Princeton Sentry Ginkgo	L	•		M	•	
Fabaceae	<i>Gleditsia</i>	<i>tricanthos</i> var. <i>inermis</i>	Skycole'	Skyline Honey locust	L	•		T	•	
Fabaceae	<i>Gymnocladus</i>	<i>dioica</i>		Kentucky Coffee tree	L	•		T	•	
Fabaceae	<i>Gymnocladus</i>	<i>dioica</i>	Expresso'	Kentucky Coffee tree	L	•		T	•	
Hamamelidaceae	<i>Liquidambar</i>	<i>styraciflua</i>	'Moraine'	Moraine Sweet gum	L	•		M		•
Magnoliaceae	<i>Liriodendron</i>	<i>tulipifera</i>		Tulip tree	L	•				•
Moraceae	<i>Maclura</i>	<i>pomifera</i>	Whiteshield'	Whiteshield Osage Orange (fruit & thornless)	L	•		M		
Taxodiaceae	<i>Metasequoia</i>	<i>ghyptostroboides</i>		Dawn Redwood	L	•				•
Platanaceae	<i>Platanus</i>	× <i>acerifolia</i>	Exclamation	London Plane Tree	L	•		M		•
Fagaceae	<i>Quercus</i>	<i>alba</i> × <i>robur</i>	Crimschmidf	Crimson Spire Oak	L	•				•
Fagaceae	<i>Quercus</i>	<i>bicolor</i>		Swamp White Oak	L	•		M	•	•
Fagaceae	<i>Quercus</i>	<i>macrocarpa</i>		Bur Oak	L	•		M	•	•
Fagaceae	<i>Quercus</i>	<i>muehlenbergii</i>		Chinquapin Oak	L	•		M		•
Fagaceae	<i>Quercus</i>	<i>rubra</i>		Northern Red Oak	L	•		T		•
Fagaceae	<i>Quercus</i>	<i>robur</i>		English Oak	L	•		T		•
Fagaceae	<i>Quercus</i>	<i>robur</i>	Regal Prince	Regal Prince English Oak	L	•		T		•
Fagaceae	<i>Quercus</i>	<i>robur</i>	'Pyramich'	Sky master® English Oak	L	•		T		•
Fagaceae	<i>Quercus</i>	× <i>macdanielii</i>	'Clemons'	Heritage® McDaniel's Oak	L	•				•
Fabaceae	<i>Robinia</i>	<i>pseudacacia</i>	'Chicago Blues'	Chicago Blues Black Locust	L	•		T		•
Taxodiaceae	<i>Taxodium</i>	<i>distichum</i>		Bald cypress	L	•		T	•	•
Taxodiaceae	<i>Taxodium</i>	<i>distichum</i>	Shawnee Brave	Shawnee Brave	L	•		T	•	•
Tiliaceae	<i>Tilia</i>	<i>americana</i>		American Linden	L	•				
Tiliaceae	<i>Tilia</i>	<i>americana</i>	'Boulevard'	Boulevard Linden	L	•				
Tiliaceae	<i>Tilia</i>	<i>americana</i>	'Wandell'	Legend™ Linden	L	•				
Tiliaceae	<i>Tilia</i>	<i>americana</i>	'Redmond'	Redmond Linden	L	•				
Tiliaceae	<i>Tilia</i>	<i>americana</i>	'American Sentry'	American Sentry Linden	L	•				
Tiliaceae	<i>Tilia</i>	<i>platyphyllos</i>		Big leaf Linden	L	•		M		
Tiliaceae	<i>Tilia</i>	<i>tomentosa</i>	PNI6051	Green Mountain® Silver Linden	L	•		M		
Tiliaceae	<i>Tilia</i>	<i>tomentosa</i>	Sterling'	Sterling Silver™ Silver Linden	L	•		M		
Tiliaceae	<i>Tilia</i>	<i>cordata</i>		Little leaf linden	L	•				
Ulmaceae	<i>Ulmus</i>	<i>japonica</i> × <i>wilsonia</i>	Morton'	Accolade Elm	L	•				
Ulmaceae	<i>Ulmus</i>	<i>wilsoniana</i>	Prospector'	Prospector Wilson's Elm	L	•				•
Ulmaceae	<i>Ulmus</i>	<i>carpinifolia</i>	Commendation	Commendation Elm	L	•				
Ulmaceae	<i>Ulmus</i>	<i>carpinifolia</i>	Regal'	Regal Elm	L	•				
Aceraceae	<i>Acer</i>	<i>campestre</i>		Hedge Maple	M	•		M		•
Hippocastanaceae	<i>Aesculus</i>	<i>glabra</i>		Ohio Buckeye	M	•		M		
Betulaceae	<i>Carpinus</i>	<i>betulus</i>		European Hornbeam	M	•				•
Betulaceae	<i>Carpinus</i>	<i>caroliniana</i>		American Hornbeam	M	•				•
Betulaceae	<i>Corylus</i>	<i>columa</i>		Turkish Hazelnut	M	•				•
Betulaceae	<i>Ostrya</i>	<i>virginiana</i>		Ironwood	M	•		M		•
Fagaceae	<i>Quercus</i>	<i>elipsoidalis</i>		Hill's Oak	M	•		M	•	•
Fagaceae	<i>Quercus</i>	<i>imbricaria</i>		Shingle Oak	M	•		M		•
Oleaceae	<i>Syringa</i>	<i>pekinensis</i>	Morton'	China Snow® Peking Lilac	M	•	•	T		•

Updated: September 2017

TABLE I: City of Aurora Approved Street Tree Species List

Santamour (1990) established guidelines for tree planting within a city:

Plant no more than 30% of a **family**: i.e. Aceraceae

Plant no more than 20% of a **genus**: i.e. *Acer* 'freemanii', *Acer rubrum*, *Acer platanoides*, *Acer saccharum*, etc.

Plant no more than 10% of a **species**: i.e. *Acer saccharum*

Limit use of Trees due to Overplanting

Scientific Name										
Family	Genus	Species	Cultivar	Common Name	Size	City Parkway	Under Wires	Salt Spray Tolerance	Soil Salt Tolerance	Spring Planting best
Rosaceae	Amelanchier	× grandiflora		Apple Serviceberry	S	•	•	T		
Rosaceae	Amelanchier	laevis		Allegheny serviceberry	S	•	•	M		
Cornaceae	Cornus	mas		Cornelian cherry Dogwood	S	•	•	M		•
Rosaceae	Crataegus	crusgalli	var. inermis	Thornless Cockspur Hawthorn	S	•	•			•
Rosaceae	Crataegus	viridis	'Winter King'	Winter King hawthorn	S	•	•			•
Rosaceae	Malus	baccata	var.jackii	Korean Crabapple	S	•	•			•
Rosaceae	Malus		'Beverly'	Beverly Crabapple	S	•	•			•
Rosaceae	Malus		'Cardinal'	Cardinal Crabapple	S	•	•			•
Rosaceae	Malus		Purple Prince	Purple Prince Crabapple	S	•	•			
Rosaceae	Malus		'Jewelcole'	Red Jewel Crabapple	S	•	•			•
Rosaceae	Malus		Red Peacock'	Red Peacock Crabapple	S	•	•			•
Rosaceae	Malus	sargentii		Sargent's Crabapple	S	•	•			•
Rosaceae	Malus	transitoria	'Schmidtcutleaf'	Golden Raindrops® Crabapple	S	•	•			•
Rosaceae	Malus	× zumi	var 'Calocarpa'	Zumi Crabapple	S	•	•	M		•
Oleaceae	Syringa	reticulata ssp. reticulata	'Ivory Silk'	Ivory Silk Japanese Tree Lilac	S	•	•	T		
Oleaceae	Syringa	reticulata ssp. reticulata	'Summer Snow'	Summer Snow Japanese Tree lilac	S	•	•	T		

Sources:

Illinois Department of Agriculture - Increasing Tree Diversity in the Urban Landscape: Alternatives to Planting Ash - February 2007

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Native Trees, Shrubs, and Vines for Urban and Rural America - A Planting Design Manual for Environmental Designers. Gary Hightshoe Iowa State University 1988

A Practitioner's Guide to Stem Girdling Roots of Trees - Impacts on Trees, Symptomology and Prevention. Gary Johnson - University of Minnesota, Richard Hauer - Minn. Dept. of Agriculture

List of Native Trees for Use along Illinois Roadways - Corridors for Tomorrow Project, Kenneth R. Robertson

Alternative to Ash Trees: Commercially Available Species and Cultivars - Dr. Laura G. Jull Dept. of Horticulture, University of Wisconsin-Madison

Crab Apple Cultivars Tested as Street Trees: Second Report - Henry D. Gerbold Journal of Arboriculture January 2000

City of Batavia Street Tree List (2001)

Legend

Salt Tolerance:

T= Plants with highest degree of salt tolerance. Use in the most exposed areas

M = Plants with a moderate degree of salt tolerance. Use in low salt areas

Size:

L= > 40 ft.

M = 30 to 40 Ft.

S = up to 30 ft.